

FCC SAR TEST REPORT

Application No.: SEWM2209000168RG
Applicant: Xiaomi Communications Co., Ltd.
Manufacturer: Xiaomi Communications Co., Ltd.
Product Name: Mobile Phone
Model No.(EUT): 22101320G
Trade Mark: POCO
FCC ID: 2AFZZ1320G
Standards: FCC 47CFR §2.1093
Date of Receipt: 2022-09-28
Date of Test: 2022-09-30 to 2022-10-30
Date of Issue: 2022-11-3
Test conclusion: **PASS ***

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



Pantu Sun

Wireless Laboratory Manager



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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
 Wireless Laboratory Manager

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REVISION HISTORY

Report Number	Revision	Description	Issue Date
SEWM2209000168RG09	01	Original	2022-11-03



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TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)			
	Head	Body-worn	Hotspot	Product specific 10g SAR
GSM850	1.08	0.23	0.49	/
GSM1900	0.93	0.30	0.66	/
WCDMA Band II	1.03	0.70	0.78	/
WCDMA Band IV	1.09	1.09	0.98	/
WCDMA Band V	1.04	0.30	0.33	/
LTE Band 2	0.70	0.25	0.90	/
LTE Band 4	1.07	0.76	0.91	/
LTE Band 5	1.01	0.25	0.32	/
LTE Band 7	1.09	0.58	0.65	/
LTE Band 38	0.86	0.39	0.47	/
LTE Band 41	0.88	0.42	0.53	/
LTE Band 66	1.07	0.76	0.91	/
NR Band n5	0.98	0.28	0.42	/
NR Band n7	0.84	0.87	0.81	/
NR Band n38	0.45	0.77	0.77	/
NR Band n41	1.05	0.77	0.72	/
NR Band n77	0.99	0.87	0.95	/
NR Band n78	1.06	0.97	0.79	/
WI-FI (2.4GHz)	0.58	0.35	0.65	/
WI-FI (5GHz)	0.77	0.66	0.98	1.80
BT	0.65	0.10	0.22	/
SAR Limited(W/kg)		1.6		4.0
Maximum Simultaneous Transmission SAR (W/kg)				
Scenario	Head	Body-worn	Hotspot	Product specific 10g SAR
Sum SAR	1.57	1.45	1.44	/
SPLSR	/	/	/	/
SPLSR Limited		0.04		0.1
<p>Note: According to TCB workshop October,2014 RF Exposure Procedures Update (Overlapping Bands): SAR for LTE Band4(Frequency range:1710-1755 MHz)/LTE Band 38 (Frequency range:2570-2620 MHz)/n38 (Frequency range:2570-2620 MHz) is respectively covered by LTE Band 66 (Frequency range:1710~1770 MHz)/ LTE Band 41 (Frequency range:2496-2690 MHz)/n41 (Frequency range:2496-2690 MHz) due to similar frequency range, same maximum tune up limit and same channel bandwidth.</p>				

Reviewed by

Well Wei

Well Wei

Prepared by

Nick Hu

Nick Hu



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1 General Information

1.1 Details of Client

Applicant:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test Engineer:	Leon-Xu, Leon-Liu, Alan-Zhang, Scola-Zou



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1.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



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1.4 General Description of EUT

Device Type :	portable device		
Exposure Category:	uncontrolled environment / general population		
Product Name:	Mobile Phone		
Model No.(EUT):	22101320G		
FCC ID:	2AFZZ1320G		
Trade Mark:	POCO		
Product Phase:	Identical Prototype		
IMEI:	869168060043606/869168060043614, 869168060043465/869168060043473, 869168060037426/869168060037434,		
Hardware Version:	P2		
Software Version:	MIUI 14		
Device Operating Configurations :			
Modulation Mode:	GSM: GMSK, 8PSK; WCDMA: QPSK,16AQM; LTE: QPSK,16QAM,64QAM,256QAM 5G NR: DFT-s-OFDM (PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM), CP-OFDM (QPSK, 16QAM, 64QAM, 256QAM) WIFI: DSSS, OFDM, OFDMA; BT: GFSK, π/4DQPSK,8DPSK		
Device Class:	B		
GPRS Multi-slots Class:	33	EGPRS Multi-slots Class:	33
HSDPA UE Category:	24	HSUPA UE Category	7
DC-HSDPA UE Category:	24		
Power Class	4, tested with power level 5(GSM850)		
	1, tested with power level 0(GSM1900)		
	3, tested with power control "all 1"(WCDMA Band)		
	3, tested with power control Max Power(LTE Band)		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	GSM850	824~849	869~894
	GSM1900	1850~1910	1930~1990
	WCDMA Band II	1850~1910	1930~1990
	WCDMA Band IV	1710~1755	2110~2155
	WCDMA Band V	824~849	869~894
	LTE Band 2	1850~1910	1930~1990
	LTE Band 4	1710~1755	2110~2155
	LTE Band 5	824~849	869~894
	LTE Band 7	2500~2570	2620~2690
	LTE Band 66	1710~1770	2110~2170
	LTE Band 38	2570~2620	2570~2620
	LTE Band 41	2496~2690	2496~2690
	NR Band n5	824~849	869~894
	NR Band n7	2500~2570	2620~2690
	NR Band n38	2570~2620	2570~2620
NR Band n41	2496~2690	2496~2690	
NR Band n77	3450~3550	3450~3550	



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		3700~3980	3700~3980
	NR Band n78	3450~3550	3450~3550
		3700~3800	3700~3800
		Bluetooth	2400~2483.5
	Wi-Fi 2.4G	2402~2462	2402~2462
	Wi-Fi 5G	5150~5250	5150~5250
		5250~5350	5250~5350
		5470~5725	5470~5725
5725~5850		5725~5850	
RF Cable:	<input checked="" type="checkbox"/> Provided by the applicant <input type="checkbox"/> Provided by the laboratory		
Battery Information:	Model:	BP4K	
	Normal Voltage:	+3.87V	
	Rated capacity:	4900mAh	
	Manufacturer:	Zhejiang Sunwoda Electronic Co., Ltd.	



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1.4.1 DUT Antenna Locations (Back View)

The DUT Antenna Locations (Back View) can refer to Appendix F.

Note:

- 1) The test device is a smart phone. The overall diagonal dimension of this device is 175 mm. Per KDB 648474 D04, because the diagonal distance of this device is $\geq 160\text{mm}$, so it is a phablet.
- 2) Ant 0 is sensor pad 1
 Ant 1 is sensor pad 2

According to the distance between 5G NR/LTE/WCDMA/GSM&WIFI&BT antennas and the sides of the EUT we can draw the conclusion that:

EUT Sides for SAR Testing							
Mode	Exposure Condition	Front	Back	Left	Right	Top	Bottom
Ant 0	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	Yes	No	Yes
Ant 1	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No
Ant 2	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	No	No
Ant 3	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	No	Yes
Ant 4	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No
Ant 5	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No
Ant 6	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No
Ant 7	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No
Ant 8	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No

Table 1: EUT Sides for SAR Testing

Note:

- 1) When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.



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1.4.2 LTE CA additional specification

The device supports downlink and 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.
- b) Intra-band and inter-band carrier aggregation requirements for downlink.

The possible downlink and uplink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The conducted power measurement results of downlink and uplink LTE CA are provided in Section 8 of this report per 3GPP TS 36.521-1 V14.4.0. The downlink LTE CA SAR test is not required since the maximum output power for downlink LTE CA was not more than 0.25dB higher than the maximum output power for without downlink LTE CA.

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.

Intra-band contiguous CA operating bands:

E-UTRA CA Band	E-UTRA Band	Uplink (UL) operating band				Downlink (DL) operating band				Duplex Mode
		BS receive / UE transmit				BS transmit / UE receive				
		F _{UL_low} – F _{UL_high}				F _{DL_low} – F _{DL_high}				
CA_7	7	2500 MHz	–	2570 MHz	2620 MHz	–	2690 MHz	FDD		
CA_38	38	2570 MHz	–	2620 MHz	2570 MHz	–	2620 MHz	TDD		



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DL CA operating bands:

2CC Downlink Carrier Aggregation	3CC Downlink Carrier Aggregation
CA_2A-2A	CA_2A-7A-7A
CA_2A-4A	CA_2A-7C
CA_2A-7A	CA_2A-7A-66A
CA_2A-66A	CA_4A-7C
CA_4A-5A	CA_5A-7A-7A
CA_4A-7A	CA_5A-7A-66A
CA_5A-7A	CA_41D
CA_5A-66A	
CA_7A-7A	
CA_7C	
CA_7A-66A	
CA_38C	
CA_41A-41A	
CA_41C	
CA_66B	
CA_66C	



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1.4.3 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 hotspot mode becomes active. When the hotspot is disabled, the power value will be recovered.
- 2) 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
- 3) A fixed level power reduction is applied for some frequency bands when handset operate "held to the ear" condition, the power reduction triggered by audio receiver detection. The audio receiver detection is used to determine head or body scenario.
- 4) The proximity sensor is used to indicate when the device is held close to a user's body exposure condition. It utilizes the proximity sensor to reduce the output power in specific wireless and operating modes of main antenna to ensure SAR compliance (Refer to section 5.4 for detailed proximity Sensor information and validation data per KDB 616217).

The detailed power reduction information can be referred to Appendix E.



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1.5 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 941225 D01	3G SAR Measurement Procedures v03r01
KDB 941225 D05	SAR for LTE Devices v02r05
KDB 941225 D05A	LTE Rel.10 KDB Inquiry Sheet v01r02
KDB 941225 D06	Hotspot Mode SAR v02r01
KDB 248227 D01	SAR Guidance for IEEE 802 11 Wi-Fi SAR v02r02
KDB 648474 D04	Handset SAR v01r03
KDB 447498 D01	General RF Exposure Guidance v06
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02
KDB 690783 D01	SAR Listings on Grants v01r03
KDB 616217 D04	SAR for laptop and tablets v01r02



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1.6 RF exposure limits

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR* (Brain*Trunk)	1.60 mW/g	8.00 mW/g
Spatial Average SAR** (Whole Body)	0.08 mW/g	0.40 mW/g
Spatial Peak SAR*** (Hands/Feet/Ankle/Wrist)	4.00 mW/g	20.00 mW/g

Notes:

- * 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
- ** The Spatial Average value of the SAR averaged over the whole body.
- *** 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.

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.)



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2 Laboratory Environment

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

Table 2: The Ambient Conditions



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3 SAR Measurements System Configuration

3.1 The SAR Measurement System

This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY5 professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation $SAR = \sigma (|E|^2) / \rho$ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

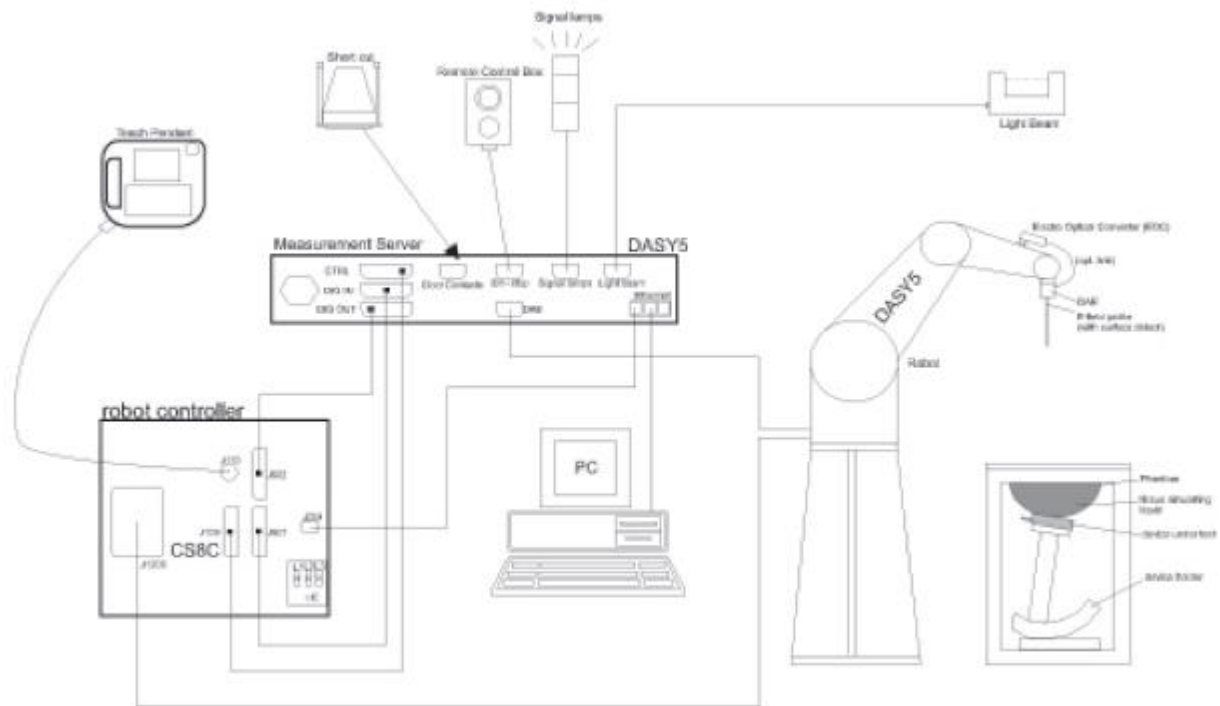
The DASY5 system for performing compliance tests consists of the following items:

A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software .An arm extension for accommodation the data acquisition electronics (DAE).

A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.

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 between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.



F-1. SAR Measurement System Configuration




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- 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.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 7.
- DASY5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validating the proper functioning of the system.

3.2 Isotropic E-field Probe EX3DV4

	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
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI



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3.3 Data Acquisition Electronics (DAE)

Model	DAE	
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.	
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV,400mV)	
Input Offset Voltage	< 5µV (with auto zero)	
Input Bias Current	< 50 f A	
Dimensions	60 x 60 x 68 mm	

3.4 SAM Twin Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)	
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)	
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 shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.

Twin SAM V5.0 has the same shell geometry and is manufactured from the same material as Twin SAM V4.0, but has reinforced top structure.




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3.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)	
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)	
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	

Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.

ELI V5.0 has the same shell geometry and is manufactured from the same material as ELI4, but has reinforced top structure.



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3.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

- The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation centres for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.
- The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon=3$ and loss tangent $\delta=0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



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3.7 Measurement procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

The “reference” and “drift” measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure.

Step 2: Area scan

The SAR distribution at the exposed side of the head was measured at a distance of 4mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 15mm*15mm or 12mm*12mm or 10mm*10mm. Based on the area scan data, the area of the maximum absorption was determined by spline interpolation.

Step 3: Zoom scan

Around this point, a volume of 32mm*32mm*30mm (f≤2GHz), 30mm*30mm*30mm (f for 2-3GHz) and 24mm*24mm*22mm (f for 5-6GHz) was assessed by measuring 5x5x7 points (f≤2GHz), 7x7x7 points (f for 2-3GHz) and 7x7x12 points (f for 5-6GHz). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

The data at the surface was extrapolated, since the centre of the dipoles is 2.0mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2mm. (This can be variable. Refer to the probe specification). The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolation algorithm. The volume was integrated with the trapezoidal algorithm. One thousand points were interpolated to calculate the average. All neighbouring volumes were evaluated until no neighboring volume with a higher average value was found.

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements. Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std. 1528-2013.



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		≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location		$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}		≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
		When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be \leq the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom}		≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid $\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
	$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z	≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

Step 4: Power reference measurement (drift)

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 indicated drift is mainly the variation of the DUT's output power and should vary max. $\pm 5\%$



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3.7.2 Data Storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension “.DAE4”. The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

3.7.3 Data Evaluation by SEMCAD

The SEMCAD software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters:	- Sensitivity	Normi, ai0, ai1, ai2
	- Conversion factor	ConvFi
	- Diode compression point	Dcpi
Device parameters:	- Frequency	f
	- Crest factor	cf
Media parameters:	- Conductivity	ε
	- Density	ρ

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot cf / dcp_i$$

- With V_i = compensated signal of channel i ($i = x, y, z$)
- U_i = input signal of channel i ($i = x, y, z$)
- cf = crest factor of exciting field (DASY parameter)
- dcp i = diode compression point (DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated:

E-field probes:

$$E_i = (V_i / Norm_i \cdot ConvF)^{1/2}$$



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H-field probes:

$$H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1}f + a_{i2}f^2) / f$$

With V_i = compensated signal of channel i ($i = x, y, z$)

Norm i = sensor sensitivity of channel i ($i = x, y, z$)
 [mV/(V/m)²] for E-field Probes

ConvF = sensitivity enhancement in solution

a_{ij} = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

E_i = electric field strength of channel i in V/m

H_i = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$

The primary field data are used to calculate the derived field units.

$$SAR = (E_{tot}^2 \cdot \sigma) / (\epsilon \cdot 1000)$$

with SAR = local specific absorption rate in mW/g

E_{tot} = total field strength in V/m

σ = conductivity in [mho/m] or [Siemens/m]

ϵ = equivalent tissue density in g/cm³

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{pwe} = E_{tot}^2 / 3770 \text{ or } P_{pwe} = H_{tot}^2 \cdot 37.7$$

with P_{pwe} = equivalent power density of a plane wave in mW/cm²

E_{tot} = total electric field strength in V/m

H_{tot} = total magnetic field strength in A/m



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4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, 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. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
 - 2) When the original highest measured SAR is ≥ 0.80 W/kg, 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 W/kg (~ 10% from the 1-g SAR limit).
 - 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
- The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

4.2 SAR measurement uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.



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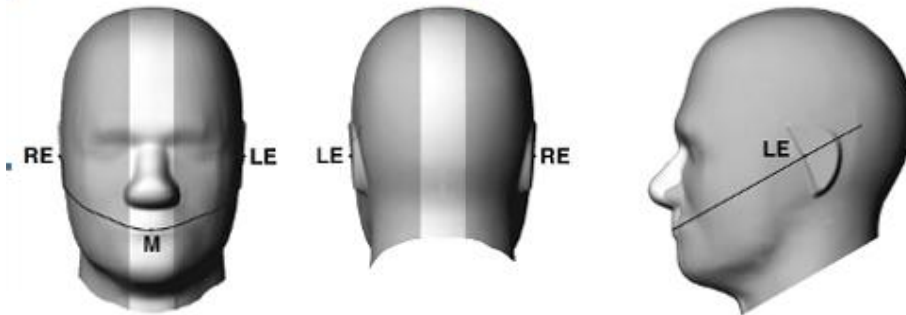
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5 Description of Test Position

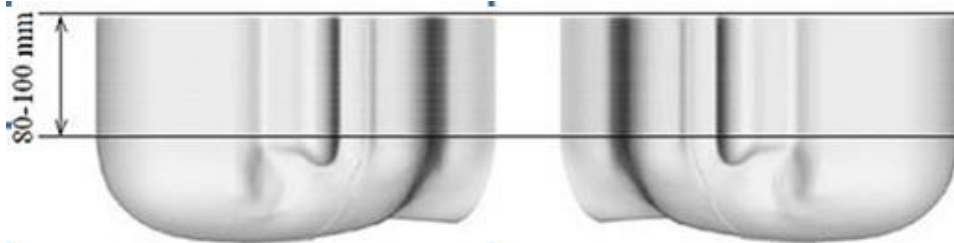
5.1 Head Exposure Condition

5.1.1 SAM Phantom Shape

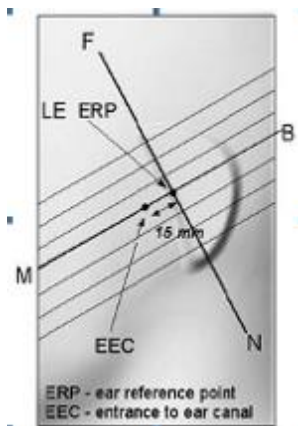


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

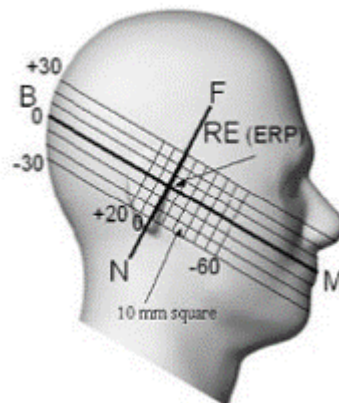
Note: The centre strip including the nose region has a different thickness tolerance.



F-4. Sagittally bisected phantom with extended perimeter (shown placed on its side as used for SAR measurements)



F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations



F-6. Side view of the phantom showing relevant markings and seven cross-sectional plane locations



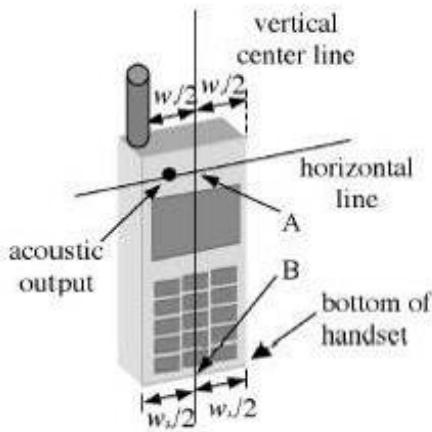
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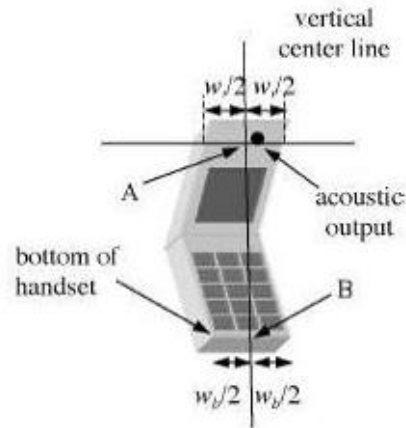
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5.1.2 EUT constructions



F-7. Handset vertical and horizontal reference lines-“fixed case”



F-8. Handset vertical and horizontal reference lines-“clam-shell case”

5.1.3 Definition of the “cheek” position

- a) Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom (“initial position”). While maintaining the device in this plane, align the vertical centre line with the reference plane containing the three ear and mouth reference points (M, RE and LE) and align the centre of the ear piece with the line RE-LE.
- b) Translate the mobile phone box towards the phantom with the ear piece aligned with the line LE-RE until telephone touches the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the box until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.



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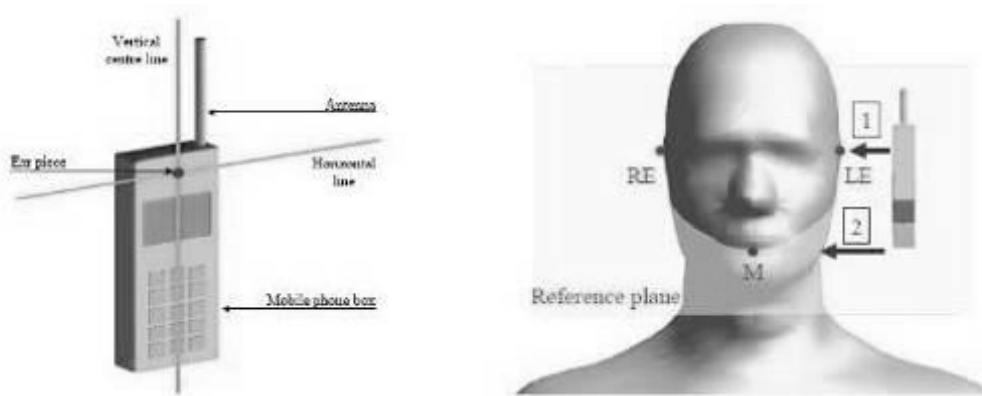
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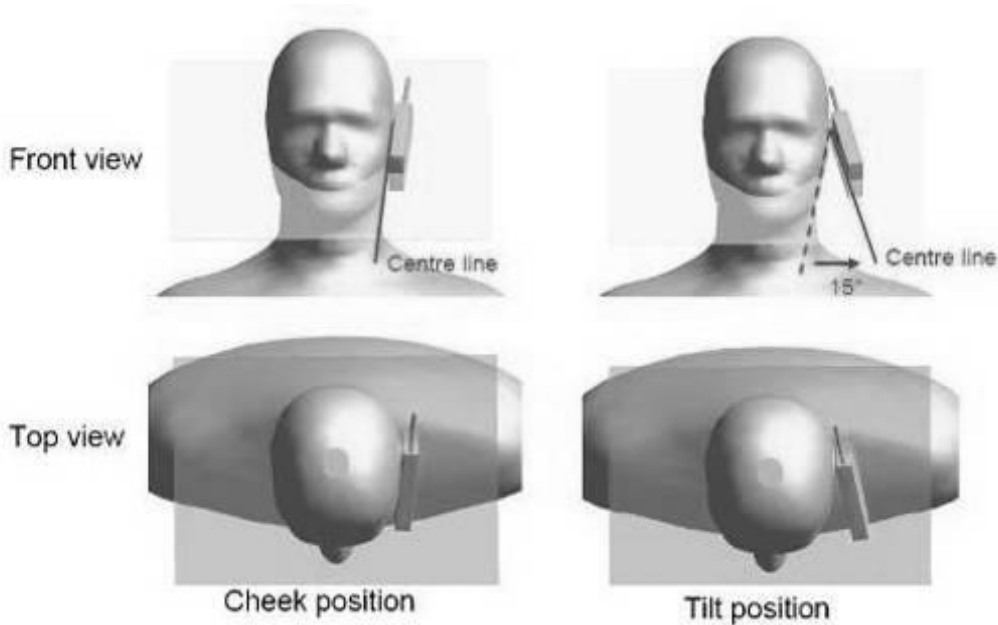
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5.1.4 Definition of the “tilted” position

- a) Position the device in the “cheek” position described above;
- b) While maintaining the device in the reference plane described above and pivoting against the ear, move it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.



F-9. Definition of the reference lines and points, on the phone and on the phantom and initial position



F-10. “Cheek” and “tilt” positions of the mobile phone on the left side



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5.2 Body Exposure Condition

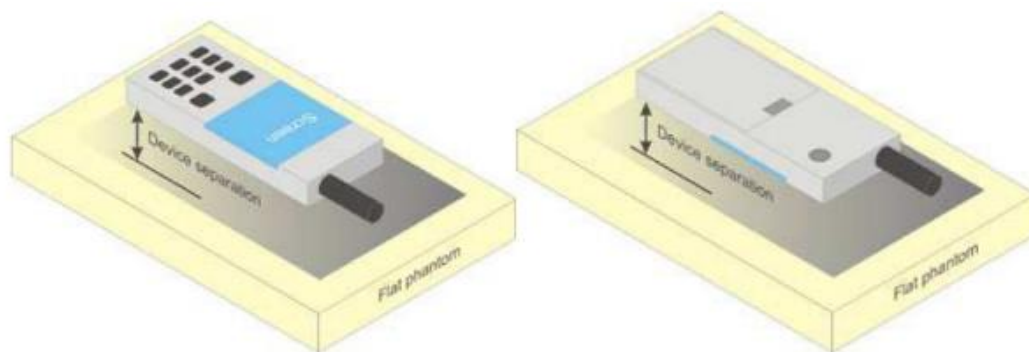
5.2.1 Body-worn accessory exposure conditions

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

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

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

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



F-11. Test positions for body-worn devices



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5.2.2 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 x W ≥ 9 cm x 5 cm) are based on a composite test separation distance of 10 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. For devices with form factors smaller than 9 cm x 5 cm, a test separation distance of 5 mm is required.

5.3 Extremity exposure conditions

Per FCC KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, the device is marketed as “Phablet”. The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for Product Specific 10-g SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.

Due to the SAR result, no frequency bands need to test with 0mm for the Product Specific 10-g SAR are not required.



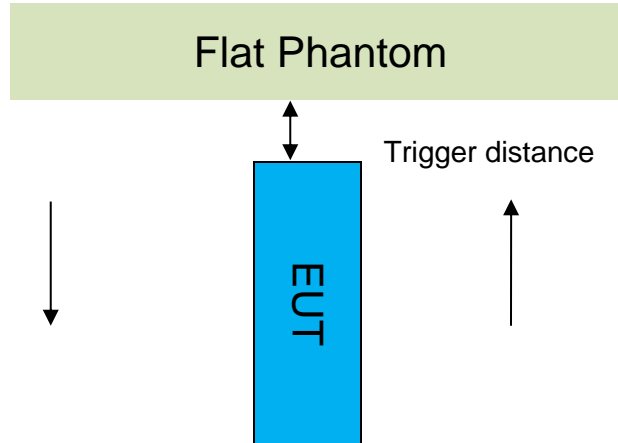
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5.4 Proximity Sensor Triggering Test

Proximity sensor triggering distances:

The Proximity sensor triggering was applied to WWAN antenna. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed.



Proximity Sensor Triggering Distance(mm)		
Antenna	Ant0/3	Ant1/4/5
Position	Front/Back/Right Side/Bottom side	Front/Back/Left/Top side
Minimum	16	6
Required SAR Test	15	5

Note:

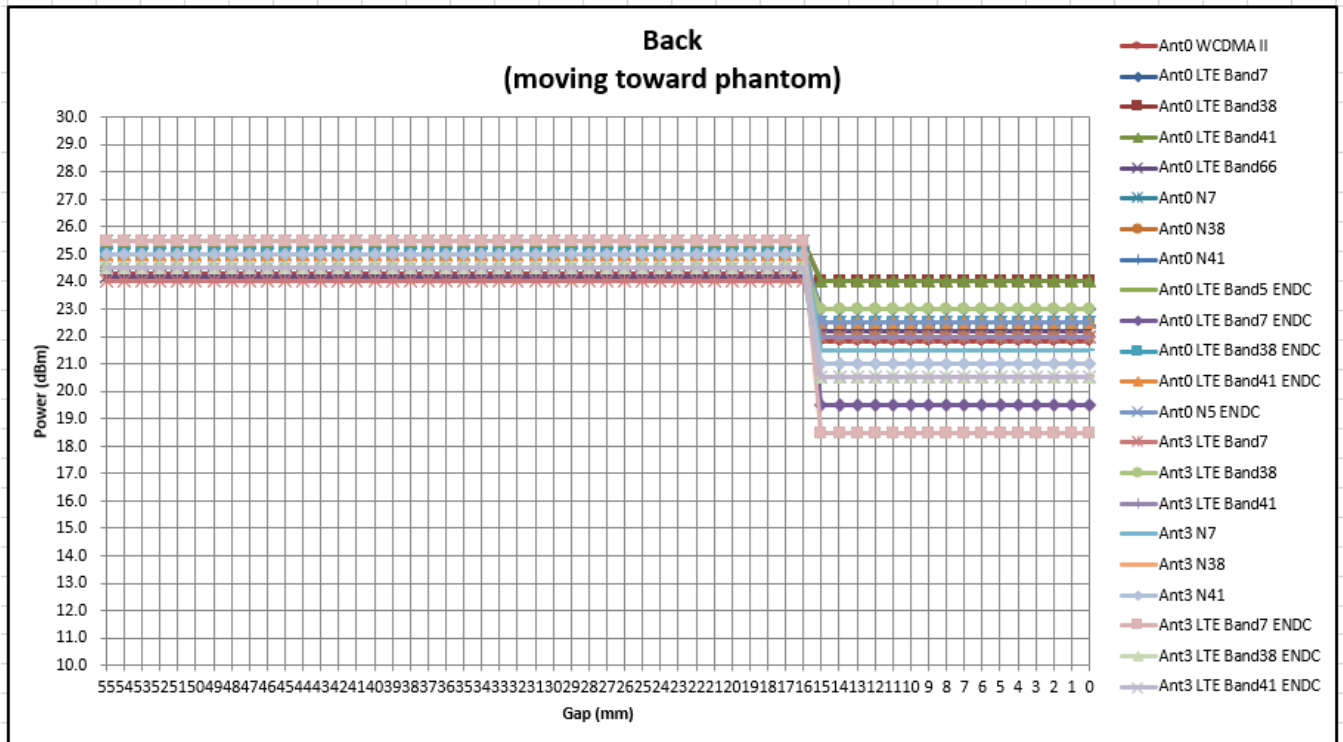
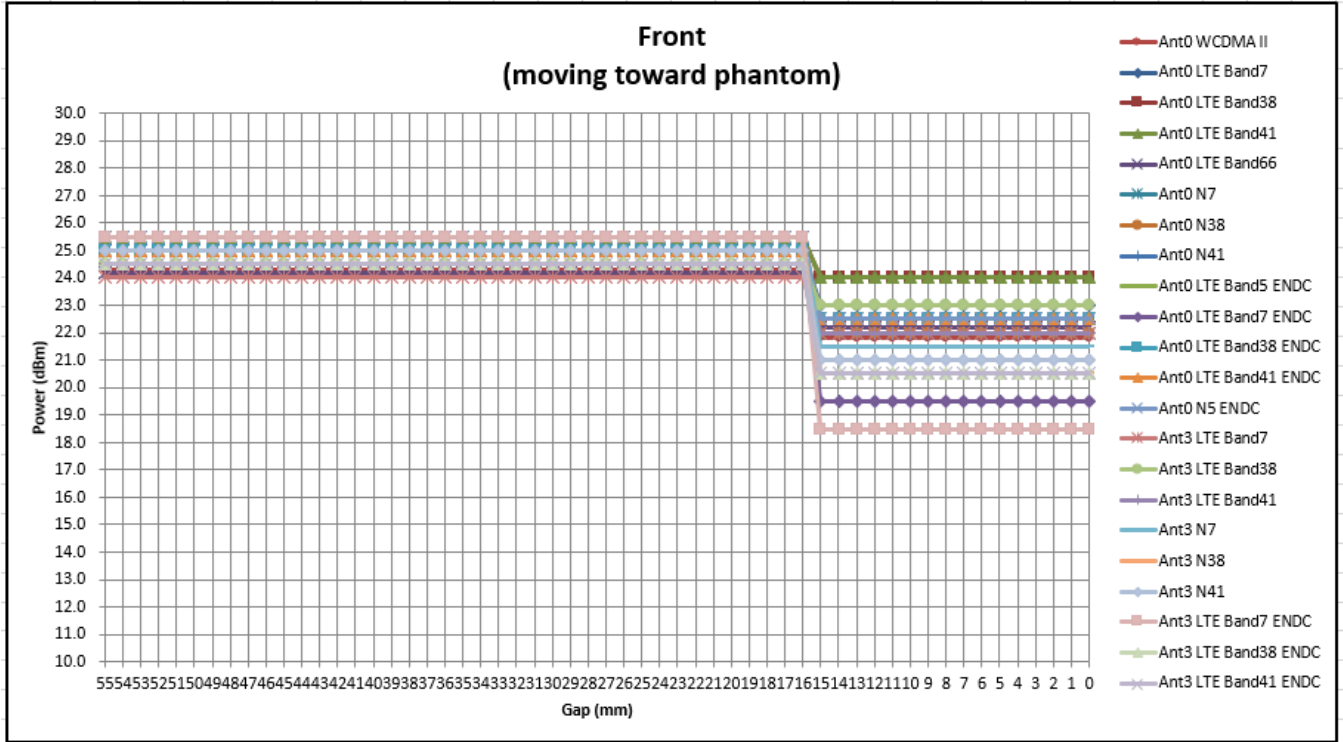
SAR tests with proximity sensor power reduction are only required for the sides of frequency bands in the table above. For the other sides or other frequency bands of the device, SAR is still tested at the maximum power level with sensor off.



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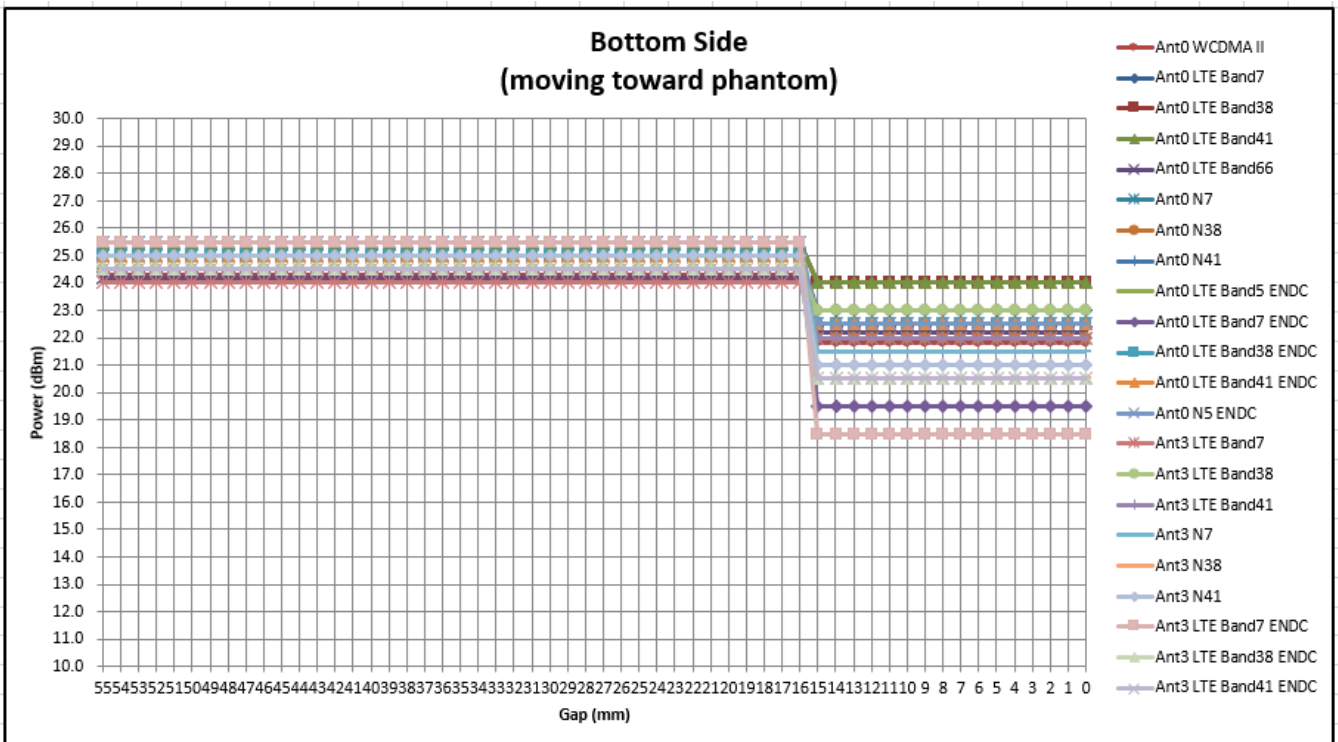
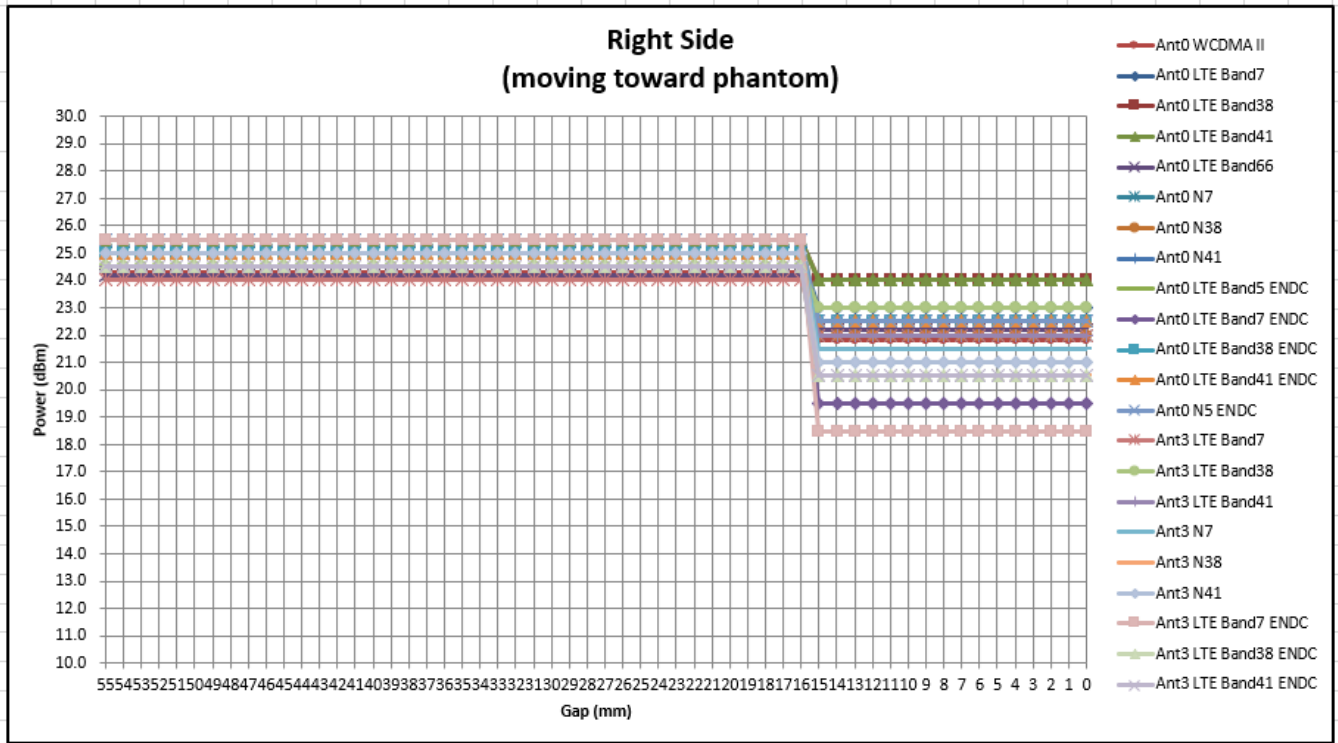
● Ant 0/3 DUT Moving Toward(Trigger)the Phantom



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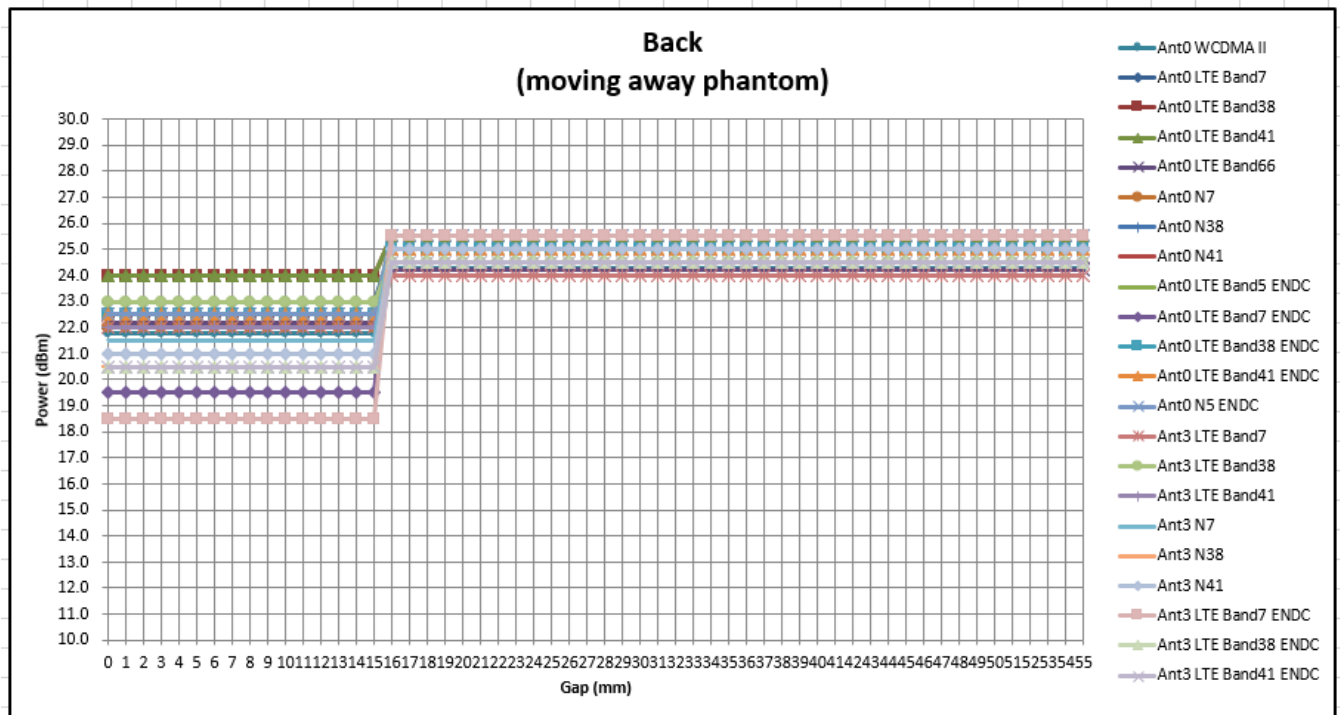
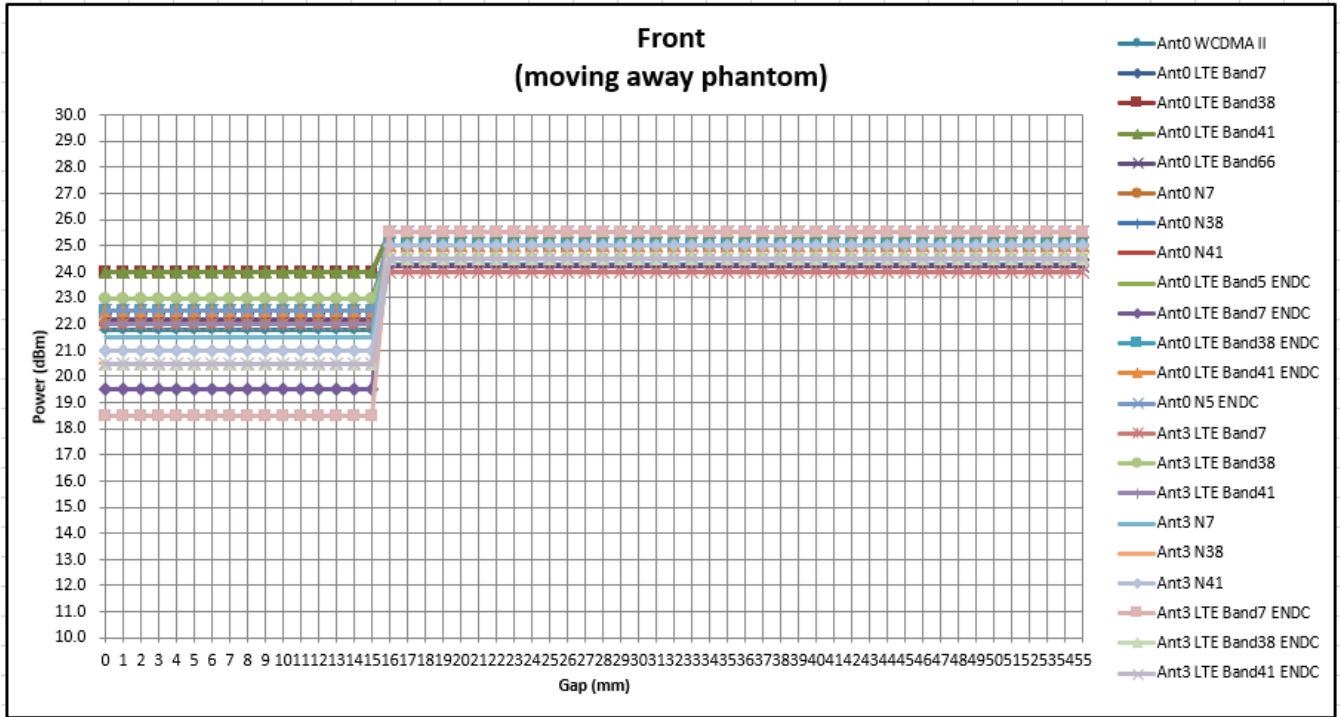
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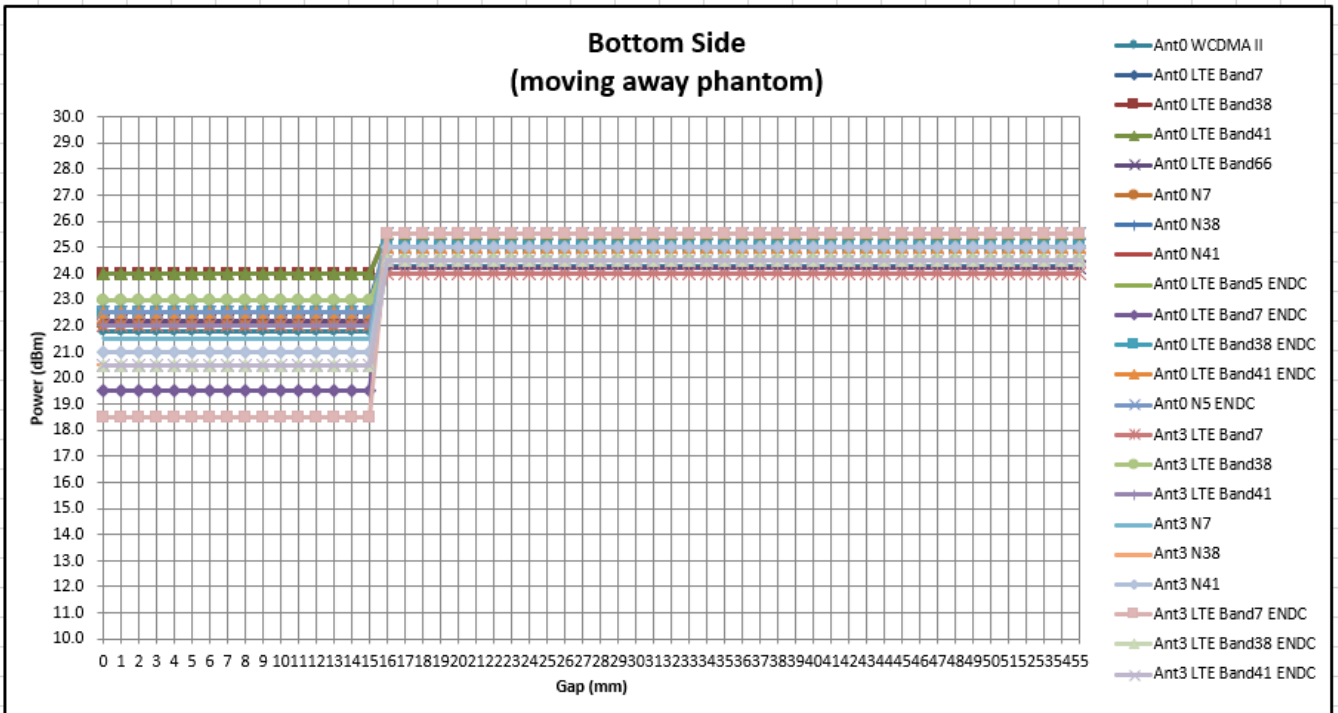
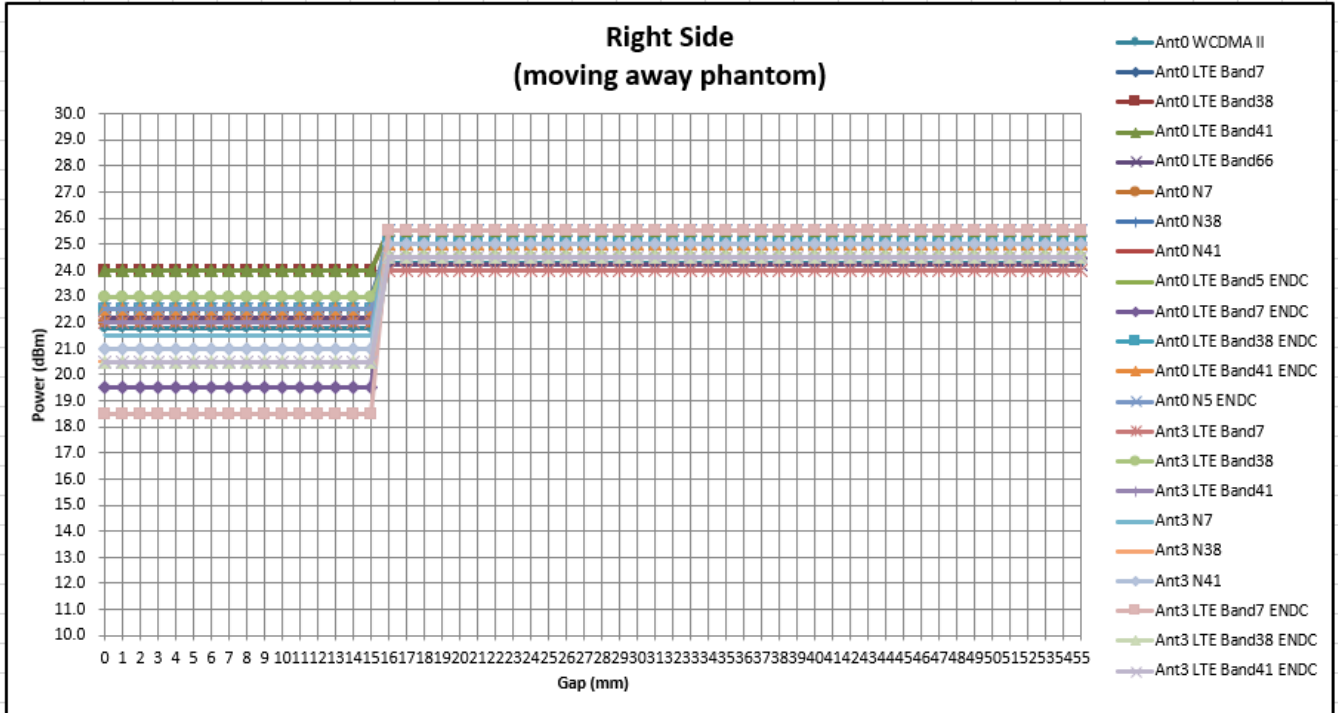


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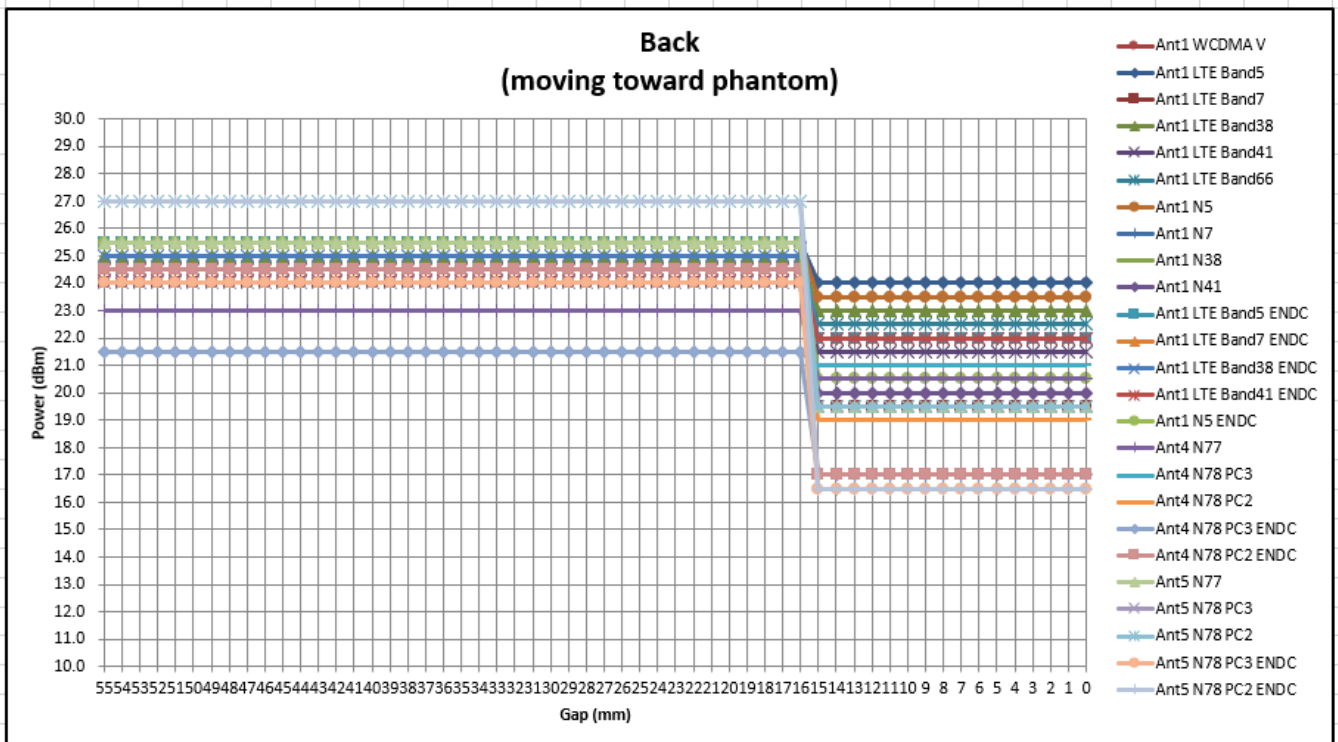
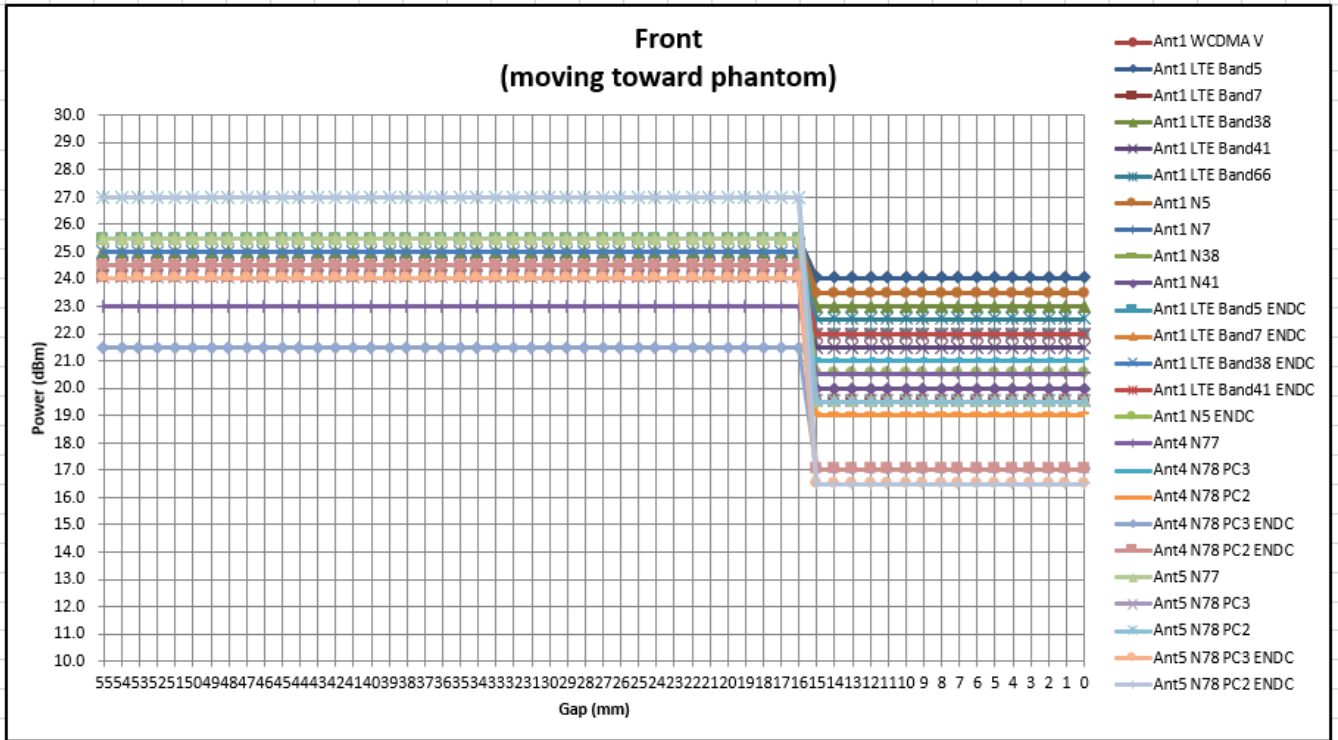
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● Ant 1/4/5 DUT Moving Toward(Trigger)the Phantom

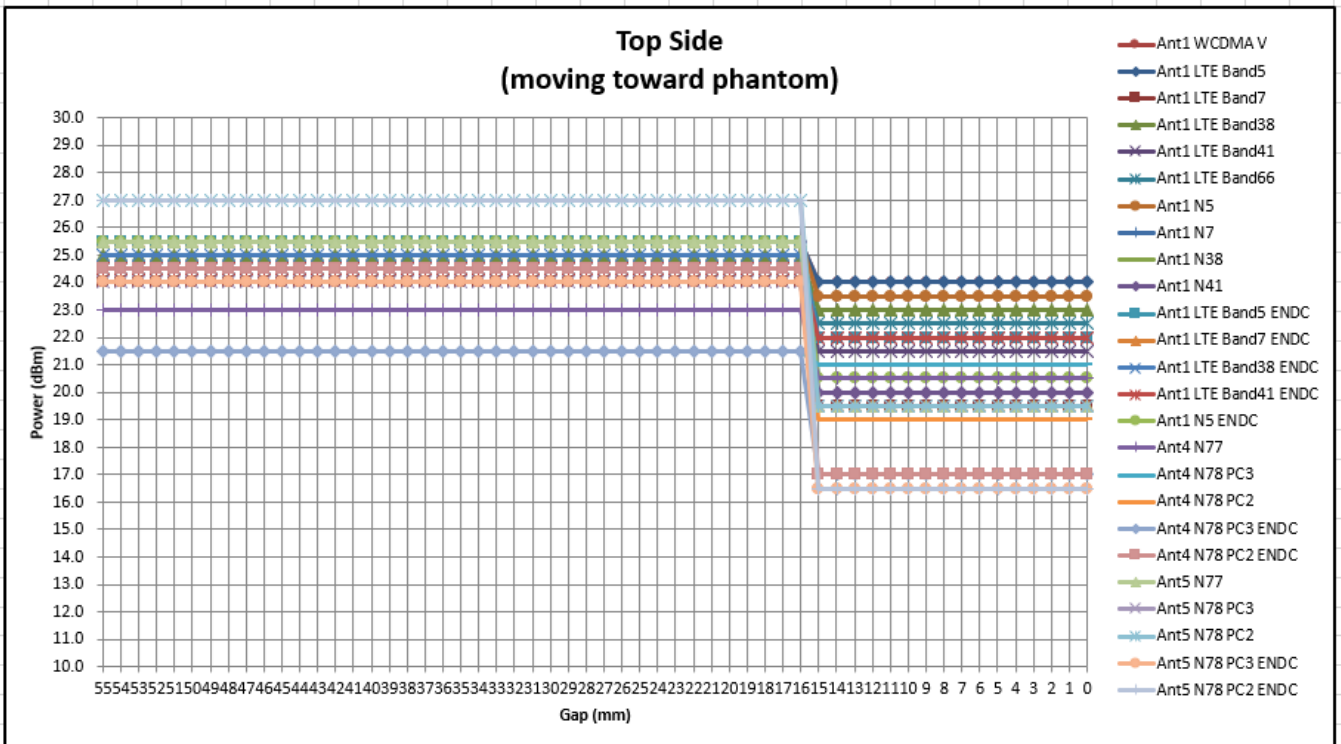
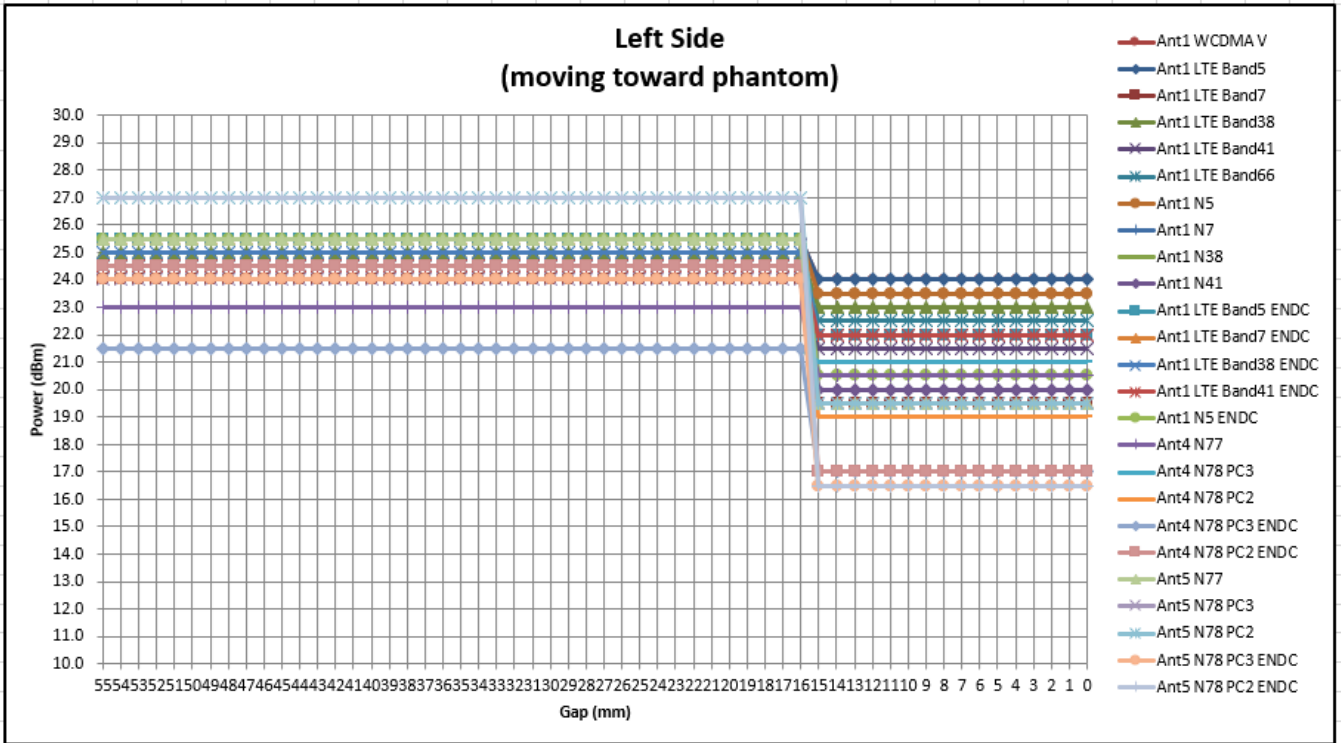


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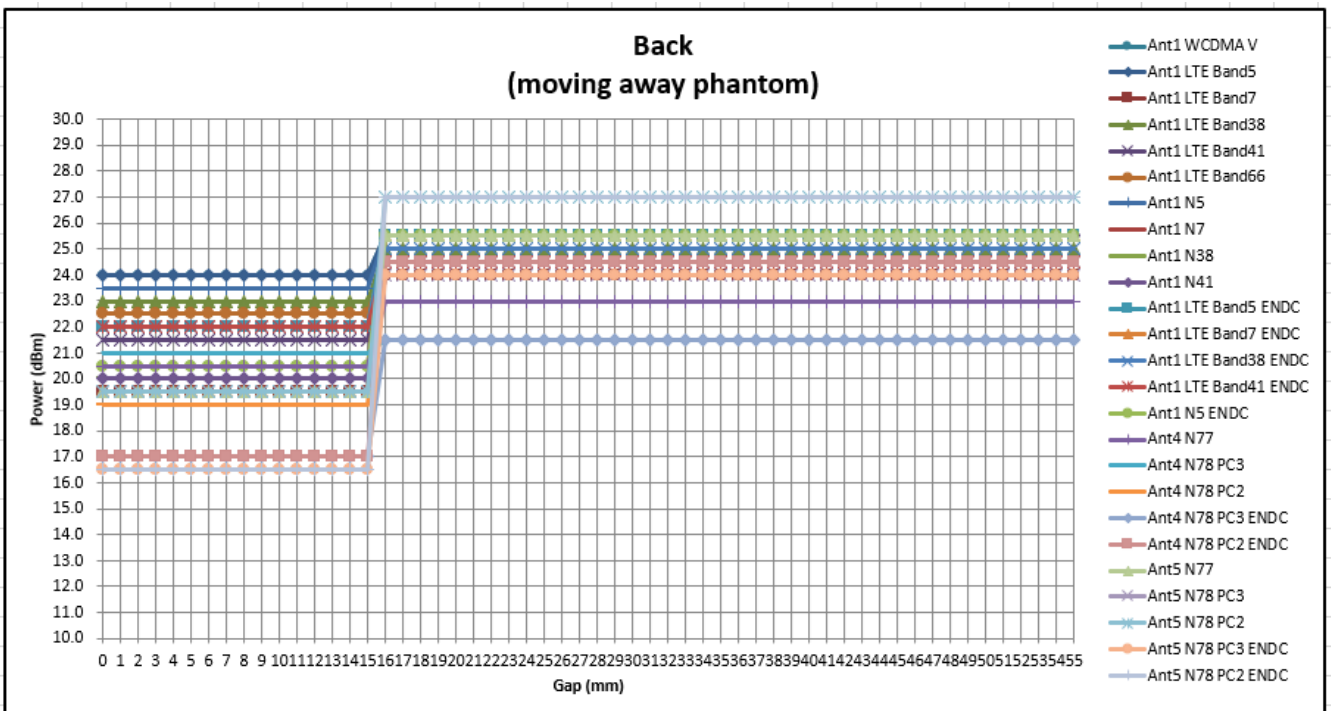
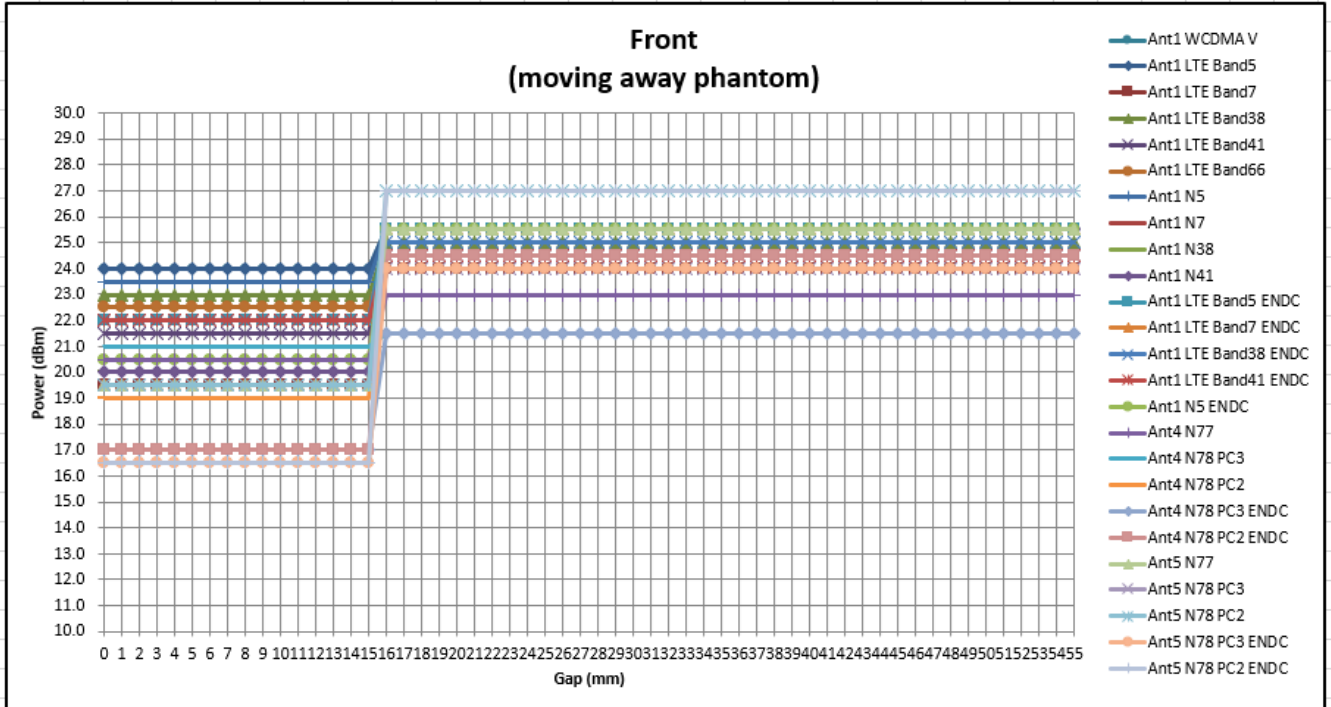


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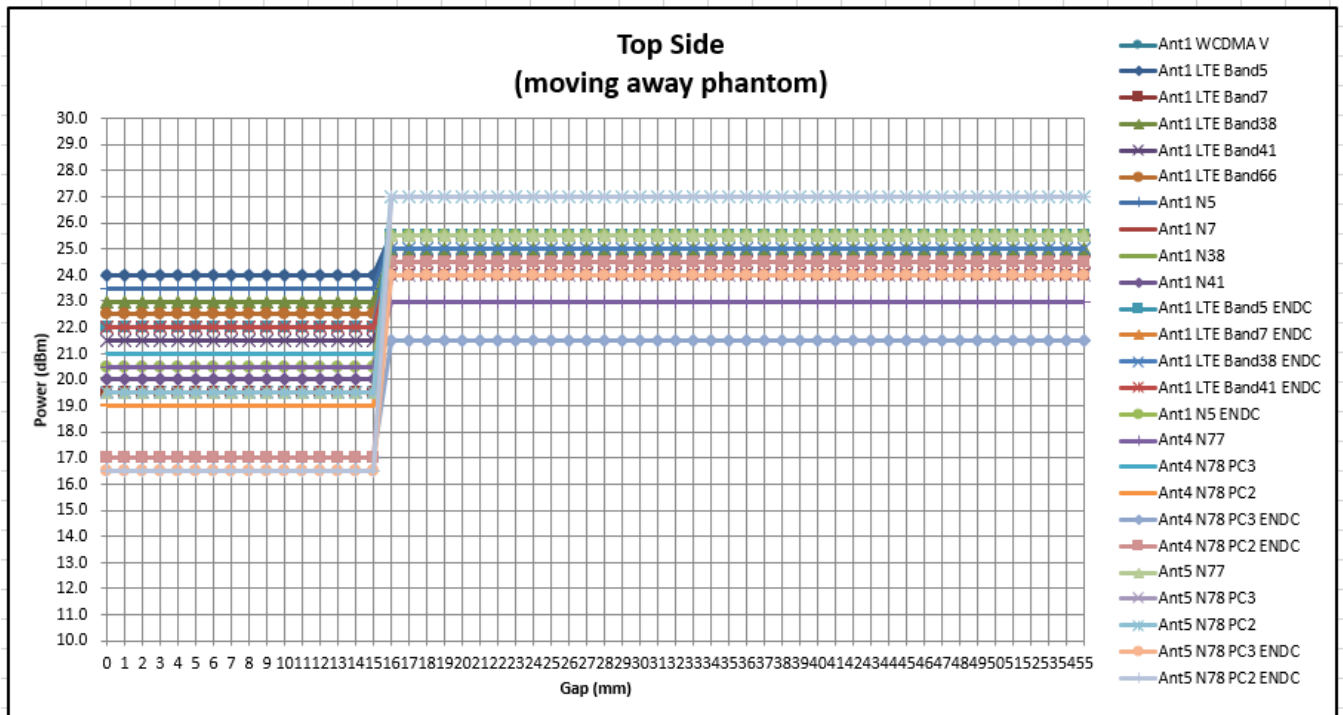
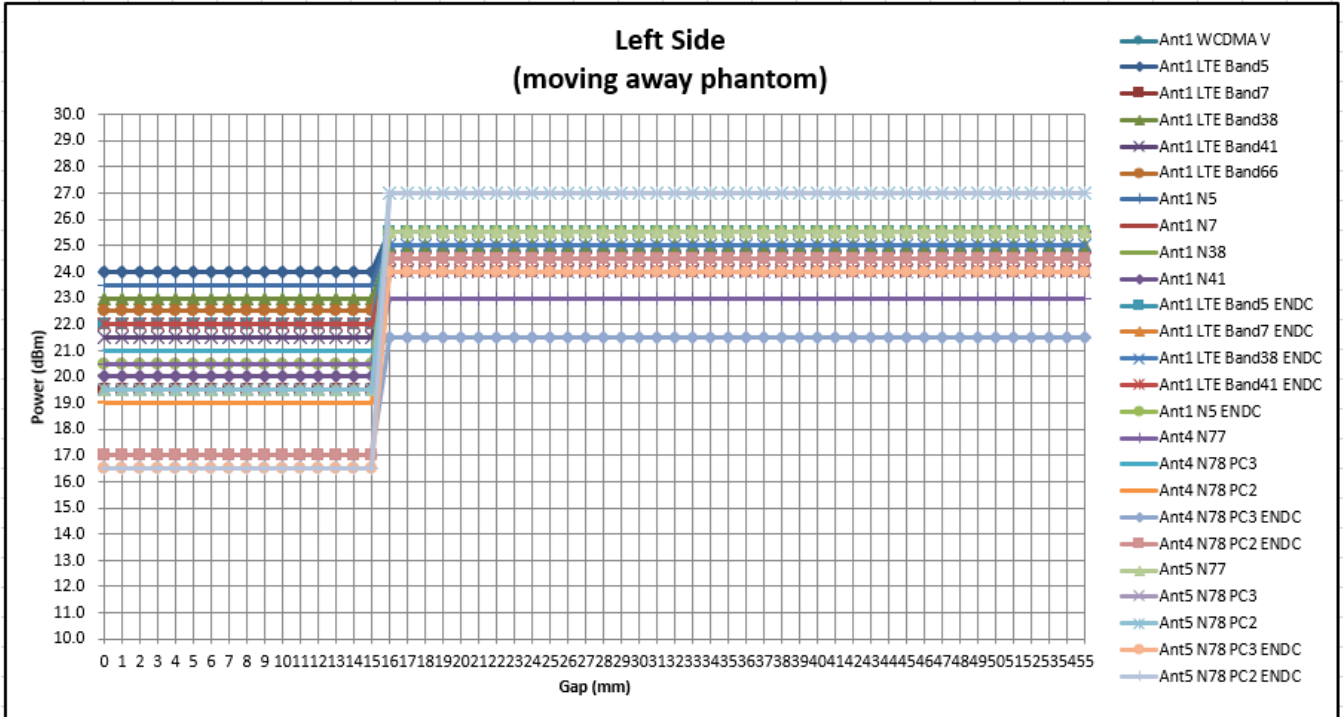
● Ant 1/4/5 DUT Moving Away(Release) from the Phantom



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Proximity sensor coverage

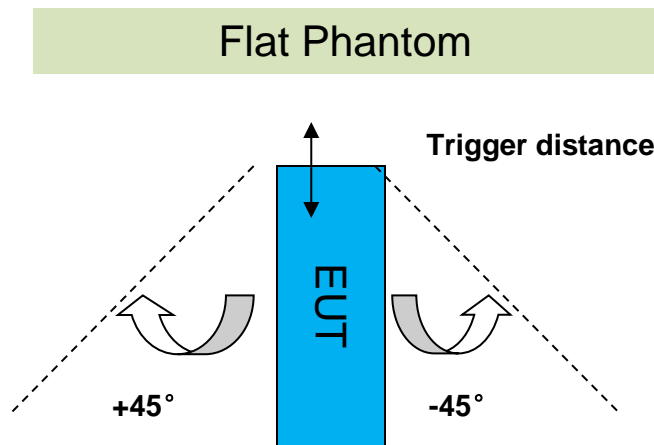
If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage testing, the device is moved and “along the direction of maximum antenna and sensor offset”.

The proximity sensor and main antenna use same metallic electrode, so there is no spatial offset.

Device tilt angle influences to proximity sensor triggering

The influence of device tilt angles to proximity sensor triggering was determined by positioning each tablet edge that contains a transmitting antenna, perpendicular to the flat phantom.

Rotating the tablet around the edge next to the phantom in $\leq 10^\circ$ increments until the tablet is $\pm 45^\circ$ from the vertical position at 0° , and the maximum output power remains in the reduced mode.



Summary of Tablet Tilt Angle Influence to Proximity Sensor Triggering for Top Side													
Band (MHz)	Minimum trigger distance Per KDB616217\$6.2	Minimum trigger distance at which power reduction was maintained over $\pm 45^\circ$	Power Reduction Status										
			-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°
Ant0/3	Right/Bottom side:16mm	Bottom side:16mm	on	on	on	on	on	on	on	on	on	on	on
Ant1/4/5	Left/Top side:6mm	Left/Bottom side:6mm	on	on	on	on	on	on	on	on	on	on	on



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6 SAR System Verification Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

The following tables give the recipes for tissue simulating liquids to be used in different frequency bands:

Ingredients (% by weight)	Frequency (MHz)				
	450	700-900	1750-2000	2300-2500	2500-2700
Water	38.56	40.30	55.24	55.00	54.92
Salt (NaCl)	3.95	1.38	0.31	0.2	0.23
Sucrose	56.32	57.90	0	0	0
HEC	0.98	0.24	0	0	0
Bactericide	0.19	0.18	0	0	0
Tween	0	0	44.45	44.80	44.85
Salt: 99+% Pure Sodium Chloride Water: De-ionized, 16 MΩ ⁺ resistivity Tween: Polyoxyethylene (20) sorbitan monolaurate			Sucrose: 98+% Pure Sucrose HEC: Hydroxyethyl Cellulose		
HSL5GHz is composed of the following ingredients: Water: 50-65% Mineral oil: 10-30% Emulsifiers: 8-25% Sodium salt: 0-1.5%					

Table 3: Recipe of Tissue Simulate Liquid



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6.1.2 Measurement for Tissue Simulate Liquid

The Conductivity (σ) and Permittivity (ρ) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was $22\pm 2^\circ\text{C}$.

Tissue Type	Measured Frequency (MHz)	Target Tissue ($\pm 5\%$)		Measured Tissue		Deviation (Within $\pm 5\%$)		Liquid Temp. ($^\circ\text{C}$)	Test Date
		ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$		
835 Head	835	41.50	0.90	40.365	0.904	-2.73%	0.44%	22.3	2022/9/30
835 Head	835	41.50	0.90	41.464	0.890	-0.09%	-1.11%	22.1	2022/10/6
1750 Head	1750	40.10	1.37	40.081	1.409	-0.05%	2.85%	22.4	2022/10/3
1750 Head	1750	40.10	1.37	40.046	1.397	-0.13%	1.97%	22.5	2022/10/11
1900 Head	1900	40.00	1.40	40.177	1.405	0.44%	0.36%	22.3	2022/10/2
1900 Head	1900	40.00	1.40	39.947	1.367	-0.13%	-2.36%	22.2	2022/10/4
2450 Head	2450	39.20	1.80	38.336	1.769	-2.20%	-1.72%	22.3	2022/10/25
2600 Head	2600	39.00	1.96	38.692	1.949	-0.79%	-0.56%	22.1	2022/10/7
2600 Head	2600	39.00	1.96	39.568	1.985	1.46%	1.28%	22.3	2022/10/30
2600 Head	2600	39.00	1.96	39.828	1.959	2.12%	-0.05%	22.5	2022/10/9
2600 Head	2600	39.00	1.96	39.688	2.018	1.76%	2.96%	22.3	2022/10/13
2600 Head	2600	39.00	1.96	39.669	1.971	1.72%	0.56%	22.4	2022/10/15
3500 Head	3500	37.90	2.91	37.295	2.903	-1.60%	-0.24%	22.1	2022/10/17
3500 Head	3500	37.90	2.91	37.478	2.833	-1.11%	-2.65%	22.2	2022/10/21
3700 Head	3700	37.70	3.12	37.911	3.174	0.56%	1.73%	22.1	2022/10/23
3900 Head	3900	37.50	3.32	37.211	3.377	-0.77%	1.72%	22.4	2022/10/19
5250 Head	5250	35.90	4.66	35.503	4.706	-1.11%	0.99%	22.3	2022/10/26
5600 Head	5600	35.50	5.07	34.831	5.178	-1.88%	2.13%	22.4	2022/10/27
5750 Head	5750	35.40	5.22	34.459	5.362	-2.66%	2.72%	22.2	2022/10/28

Table 4: Measurement result of Tissue electric parameters



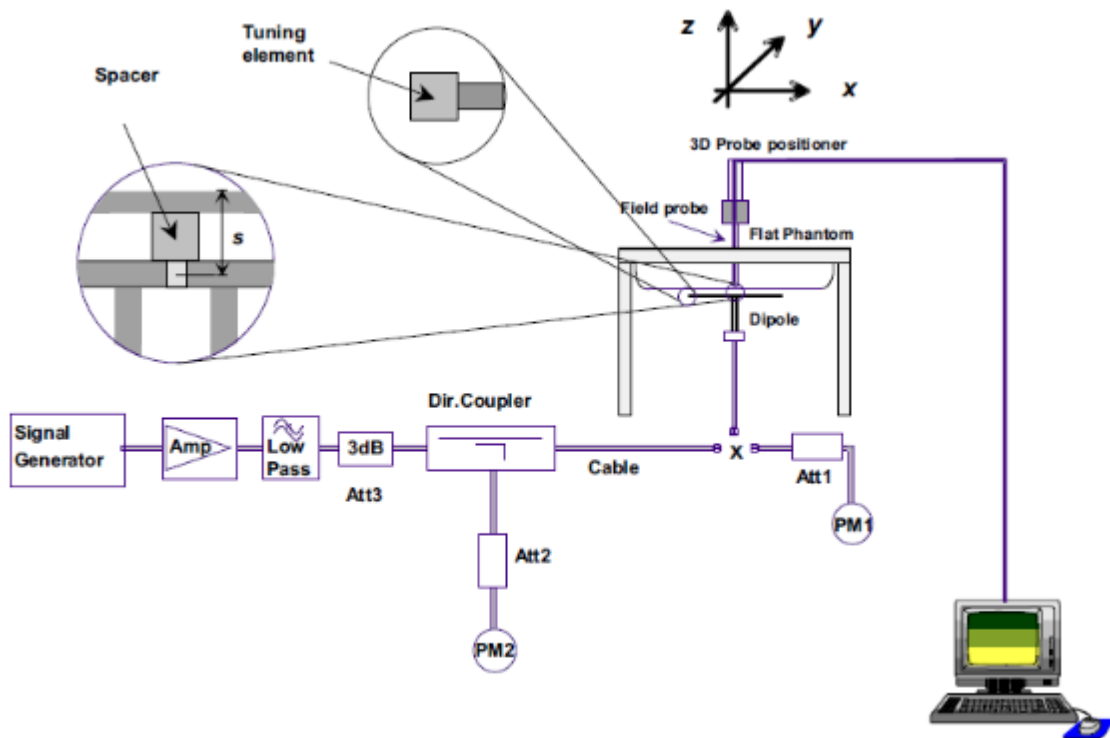
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6.2 SAR System Check

The microwave circuit arrangement for system Check is sketched in F-12. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the following table (A power level of 250mW (below 3GHz) or 100mW (3-6GHz) was input to the dipole antenna). During the tests, the ambient temperature of the laboratory was in the range $22\pm 2^{\circ}\text{C}$, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above $15\pm 0.5\text{ cm}$ in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



F-12. the microwave circuit arrangement used for SAR system check



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6.2.1 Justification for Extended SAR Dipole Calibrations

1) Referring to KDB865664 D01 requirements for dipole calibration, instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.

- a) There is no physical damage on the dipole;
- b) System check with specific dipole is within 10% of calibrated value;
- c) Return-loss is within 10% of calibrated measurement;
- d) Impedance is within 5Ω from the previous measurement.

2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.



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6.2.2 Summary System Check Result(s)

SAR System Validation Result(s)										
Validation Kit		Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within ±10%)		Liquid Temp. (°C)
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1-g(W/kg)	10-g(W/kg)	
D835V2	Head	2.50	1.65	10.00	6.60	9.52	6.17	5.04%	6.97%	22.3
D835V2	Head	2.58	1.68	10.32	6.72	9.52	6.17	8.40%	8.91%	22.1
D1750V2	Head	9.23	4.81	36.92	19.24	35.30	18.70	4.59%	2.89%	22.4
D1750V2	Head	9.25	4.90	37.00	19.60	35.30	18.70	4.82%	4.81%	22.5
D1900V2	Head	10.40	5.39	41.60	21.56	39.70	20.30	4.79%	6.21%	22.3
D1900V2	Head	10.20	5.40	40.80	21.60	39.70	20.30	2.77%	6.40%	22.2
D2450V2	Head	12.80	6.10	51.20	24.40	52.20	24.50	-1.92%	-0.41%	22.3
D2600V2	Head	13.60	5.89	54.40	23.56	57.10	25.40	-4.73%	-7.24%	22.1
D2600V2	Head	13.90	6.21	55.60	24.84	57.10	25.40	-2.63%	-2.20%	22.3
D2600V2	Head	13.30	6.17	53.20	24.68	57.10	25.40	-6.83%	-2.83%	22.5
D2600V2	Head	14.20	6.38	56.80	25.52	57.10	25.40	-0.53%	0.47%	22.3
D2600V2	Head	14.00	6.27	56.00	25.08	57.10	25.40	-1.93%	-1.26%	22.4
Validation Kit		Measured SAR 100mW	Measured SAR 100mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within ±10%)		Liquid Temp. (°C)
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1-g(W/kg)	10-g(W/kg)	
D3500V2	Head(3.5GHz)	6.37	2.40	63.70	24.00	66.60	24.90	-4.35%	-3.61%	22.1
D3500V2	Head(3.5GHz)	6.22	2.34	62.20	23.40	66.60	24.90	-6.61%	-6.02%	22.2
D3700V2	Head(3.7GHz)	6.24	2.28	62.40	22.80	67.80	24.70	-7.96%	-7.69%	22.1
D3900V2	Head(3.9GHz)	7.22	2.59	72.20	25.90	68.00	24.50	6.18%	5.71%	22.4
D5GHzV2	Head(5.25GHz)	7.94	2.29	79.40	22.90	78.00	21.80	1.79%	5.05%	22.3
D5GHzV2	Head(5.6GHz)	8.60	2.45	86.00	24.50	79.90	22.50	7.63%	8.89%	22.4
D5GHzV2	Head(5.75GHz)	7.96	2.27	79.60	22.70	76.40	21.20	4.19%	7.08%	22.2

Table 5: SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A



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7 Test Configuration

7.1 3G SAR Test Reduction Procedure

According to KDB 941225D01, in the following procedures, the mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode. This is referred to as the 3G SAR test reduction procedure in the following SAR test guidance, where the primary mode is identified in the applicable wireless mode test procedures and the secondary mode is wireless mode being considered for SAR test reduction by that procedure. When the 3G SAR test reduction procedure is not satisfied, it is identified as “otherwise” in the applicable procedures; SAR measurement is required for the secondary mode.

7.2 Operation Configurations

7.2.1 GSM Test Configuration

SAR tests for GSM 850 and GSM 1900, a communication link is set up with a base station by air link. Using CMW500 the power lever is set to “5” and “0” in SAR of GSM 850 and GSM 1900. The tests in the band of GSM 850 and GSM 1900 are performed in the mode of GPRS/EGPRS function. Since the GPRS class is 33 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslot is 5. The EGPRS class is 33 for this EUT, it has at most 4 timeslots in uplink, and at most 4 timeslots in downlink, the maximum total timeslot is 5.

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.

When SAR tests for EGPRS mode is necessary, GMSK modulation should be used to minimize SAR measurement error due to higher peak-to-average power (PAR) ratios inherent in 8-PSK.

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



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7.2.2 WCDMA Test Configuration

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, DPDCHn 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.

2) . Head SAR

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

3) . Body SAR

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 DPDCHn 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 DPDCHn, for the highest reported body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When more than 2 DPDCHn are supported by the handset, it may be necessary to configure additional DPDCHn using FTM (Factory Test Mode) or other chipset based test approaches with parameters similar to those used in 384 kbps and 768 kbps RMC.

4) . HSDPA / HSUPA / DC-HSDPA

According to KDB 941225 D01v03, RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA

a) HSDPA

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



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Sub-test	β_c	Bd	$\beta_d(SF)$	β_c/β_d	β_{hs}	CM(dB)	MPR (dB)
1	2/15	15/15	64	2/15	4/15	0.0	0
2	12/15(3)	15/15(3)	64	12/15(3)	24/15	1.0	0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note1: $\Delta ACK, \Delta NACK$ and $\Delta CQI = 8$ Ahs = $\beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$
 Note2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1.A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, ΔACK and $\Delta NACK = 8$ (Ahs = 30/15) with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta CQI = 7$ (Ahs = 24/15) with $\beta_{hs} = 24/15 * \beta_c$.
 Note3: CM=1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

The measurements were performed with a Fixed Reference Channel (FRC) and H-Set 1 QPSK.

Parameter	Value
Nominal average inf. bit rate	534 kbit/s
Inter-TTI Distance	3 TTI"s
Number of HARQ Processes	2 Processes
Information Bit Payload	3202 Bits
MAC-d PDU size	336 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	4800 Bits
Total Available SMLs in UE	19200 SMLs
Number of SMLs per HARQ Process	9600 SMLs
Coding Rate	0.67
Number of Physical Channel Codes	5

Table 6: settings of required H-Set 1 QPSK acc. to 3GPP 34.121



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HS-DSCH Category	Maximum HS-DSCH Codes Received	Minimum Inter-TTI Interval	Maximum H S-DSCH Transport Block Bits/HS-DSCH TTI	Total Soft Channel Bits
1	5	3	7298	19200
2	5	3	7298	28800
3	5	2	7298	28800
4	5	2	7298	38400
5	5	1	7298	57600
6	5	1	7298	67200
7	10	1	14411	115200
8	10	1	14411	134400
9	15	1	25251	172800
10	15	1	27952	172800
11	5	2	3630	14400
12	5	1	3630	28800
13	15	1	34800	259200
14	15	1	42196	259200
15	15	1	23370	345600
16	15	1	27952	345600

Table 7: HSDPA UE category

b) HSUPA

Due to inner loop power control requirements in HSUPA, a commercial communication test set should be used for the output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSUPA should be configured according to the values indicated below as well as other applicable procedures described in the „WCDMA Handset“ and „Release 5 HSUPA Data Device“ sections of 3G device.



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Sub-test ^c	β_c ^c	β_d ^c	β_d (SF) ^c	β_c/β_d ^c	β_{hs} ⁽¹⁾	β_{ec} ^c	β_{ed} ^c	β_c (SF) ^c	β_{ed} (code) ^c	CM ⁽²⁾	MP R ⁽³⁾ (dB) ^c	AG ⁽⁴⁾ Inde x ^c	E-TFC I ^c
1 ^c	11/15 ⁽³⁾	15/15 ⁽³⁾	64 ^c	11/15 ⁽³⁾	22/15 ^c	209/225 ^c	1039/225 ^c	4 ^c	1 ^c	1.0 ^c	0.0 ^c	20 ^c	75 ^c
2 ^c	6/15 ^c	15/15 ^c	64 ^c	6/15 ^c	12/15 ^c	12/15 ^c	94/75 ^c	4 ^c	1 ^c	3.0 ^c	2.0 ^c	12 ^c	67 ^c
3 ^c	15/15 ^c	9/15 ^c	64 ^c	15/9 ^c	30/15 ^c	30/15 ^c	$\beta_{ed1}:47/15$ $\beta_{ed2}:47/15$	4 ^c	2 ^c	2.0 ^c	1.0 ^c	15 ^c	92 ^c
4 ^c	2/15 ^c	15/15 ^c	64 ^c	2/15 ^c	4/15 ^c	2/15 ^c	56/75 ^c	4 ^c	1 ^c	3.0 ^c	2.0 ^c	17 ^c	71 ^c
5 ^c	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64 ^c	15/15 ⁽⁴⁾	30/15 ^c	24/15 ^c	134/15 ^c	4 ^c	1 ^c	1.0 ^c	0.0 ^c	21 ^c	81 ^c

Note 1: $\Delta ACK, \Delta NACK$ and $\Delta CQI = 8$ $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$
 Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference^c
 Note 3 : For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$ ^c
 Note 4 : For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$ ^c
 Note 5 : Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g^c
 Note 6 : β_{ed} can not be set directly; it is set by Absolute Grant Value.^c

Table 8: Subtests for UMTS Release 6 HSUPA

UE Category	E-DCH Codes Transmitted	Maximum E-DCH	Number of HARQ Processes	of E-DCH TTI(ms)	Minimum Spreading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)
1	1	4	4	10	4	7110	0.7296
2	2	8	8	2	4	2798	1.4592
	2	4	4	10	4	14484	
3	2	4	4	10	4	14484	1.4592
4	2	8	8	2	2	5772	2.9185
	2	4	4	10	2	20000	2.00
5	2	4	4	10	2	20000	2.00
6 (No DPDCH)	4	8	8	10	2SF2&2SF	11484	5.76
	4	4	4	2	4	20000	2.00
7 (No DPDCH)	4	8	8	2	2SF2&2SF	22996	?
	4	4	4	10	4	20000	?

NOTE: When 4 codes are transmitted in parallel, two codes shall be transmitted with SF2 and two with SF4. UE categories 1 to 6 support QPSK only. UE category 7 supports QPSK and 16QAM. (TS25.306-7.3.0).

Table 9: HSUPA UE category



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c) 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 Second serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

The following tests were completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0. A summary of these settings are illustrated below:

Downlink Physical Channels are set as per 3GPP TS34.121-1 v9.0.0 E.5.0

Table E.5.0: Levels for HSDPA connection setup

Parameter During Connection setup	Unit	Value
P-CPICH_Ec/Ior	dB	-10
P-CCPCH and SCH_Ec/Ior	dB	-12
PICH_Ec/Ior	dB	-15
HS-PDSCH	dB	off
HS-SCCH_1	dB	off
DPCH_Ec/Ior	dB	-5
OCNS_Ec/Ior	dB	-3.1

Call is set up as per 3GPP TS34.108 v9.5.0 sub clause 7.3.13.

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121, annex C for FDD and 3GPP TS 34.122.

The measurements were performed with a Fixed Reference Channel (FRC) H-Set 12 with QPSK.

Parameter	Value
Nominal average inf. bit rate	60 kbit/s
Inter-TTI Distance	1 TTI's
Number of HARQ Processes	6 Processes
Information Bit Payload	120 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	960 Bits
Total Available SMLs in UE	19200 SMLs
Number of SMLs per HARQ Process	3200 SMLs
Coding Rate	0.15
Number of Physical Channel Codes	1

Table 10: settings of required H-Set 12 QPSK acc. to 3GPP 34.121

Note:

1. The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table above.
2. Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used.



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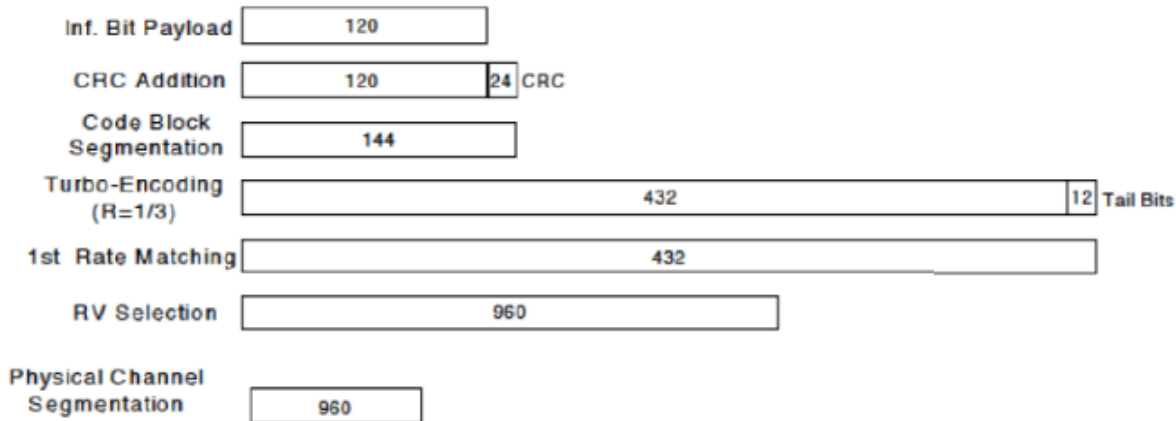


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

The following 4 Sub-tests for HSDPA were completed according to Release 5 procedures. A summary of subtest settings are illustrated below:

Sub-test ^o	β_c ^o	β_d ^o	β_d ·(SF) ^o	β_c/β_d ^o	$\beta_{hs}(1)$ ^o	CM(dB)(2) ^o	MPR·(dB) ^o
1 ^o	2/15 ^o	15/15 ^o	64 ^o	2/15 ^o	4/15 ^o	0.0 ^o	0 ^o
2 ^o	12/15(3) ^o	15/15(3) ^o	64 ^o	12/15(3) ^o	24/15 ^o	1.0 ^o	0 ^o
3 ^o	15/15 ^o	8/15 ^o	64 ^o	15/8 ^o	30/15 ^o	1.5 ^o	0.5 ^o
4 ^o	15/15 ^o	4/15 ^o	64 ^o	15/4 ^o	30/15 ^o	1.5 ^o	0.5 ^o

Note 1: ΔACK , $\Delta NACK$ and $\Delta CQI=8$ $A_{hs}=\beta_{hs}/\beta_c=30/15$ $\beta_{hs}=30/15 * \beta_c$
 Note 2: $CM=1$ for $\beta_c/\beta_d=12/15$, $\beta_{hs}/\beta_c=24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.
 Note 3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c=11/15$ and $\beta_d=15/15$

Up commands are set continuously to set the UE to Max power.

Note:

1. The Dual Carriers transmission only applies to HSDPA physical channels
2. The Dual Carriers belong to the same Node and are on adjacent carriers.
3. The Dual Carriers do not support MIMO to serve UEs configured for dual cell operation
4. The Dual Carriers operate in the same frequency band.
5. The device doesn't support the modulation of 16QAM in uplink but 64QAM in downlink for DC-HSDPA mode.
6. The device doesn't support carrier aggregation for it just can operate in Release 8.



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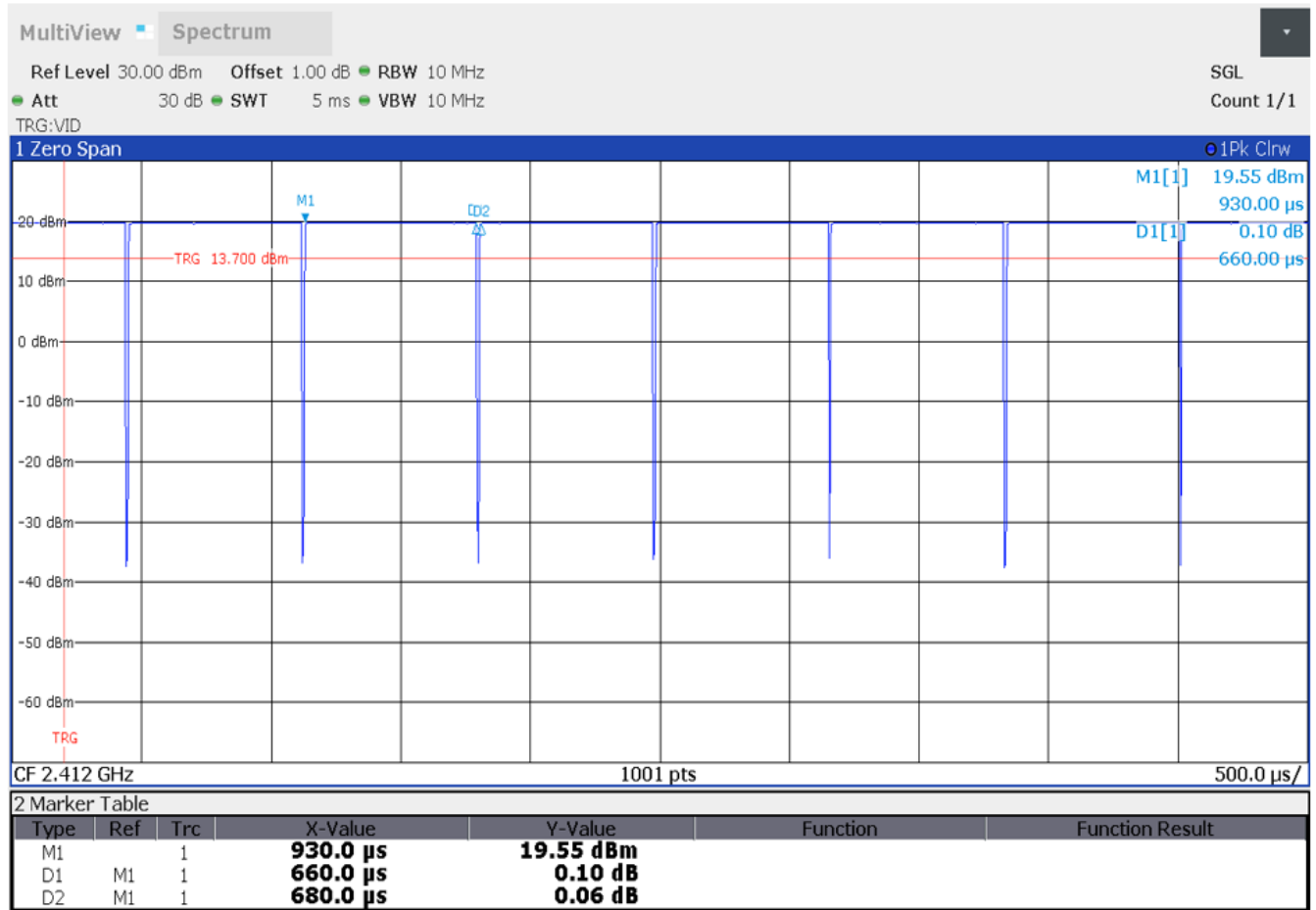
7.2.3 WiFi Test Configuration

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.

7.2.3.1 Duty cycle

Wi-Fi 2.4GHz 802.11b MIMO:

Duty cycle=97.06%



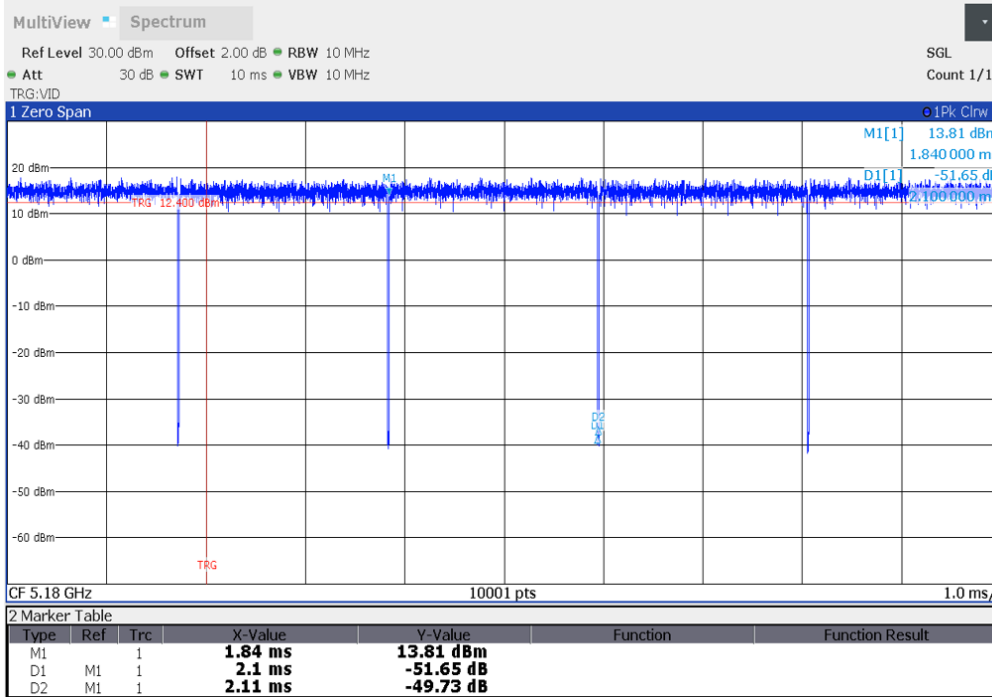
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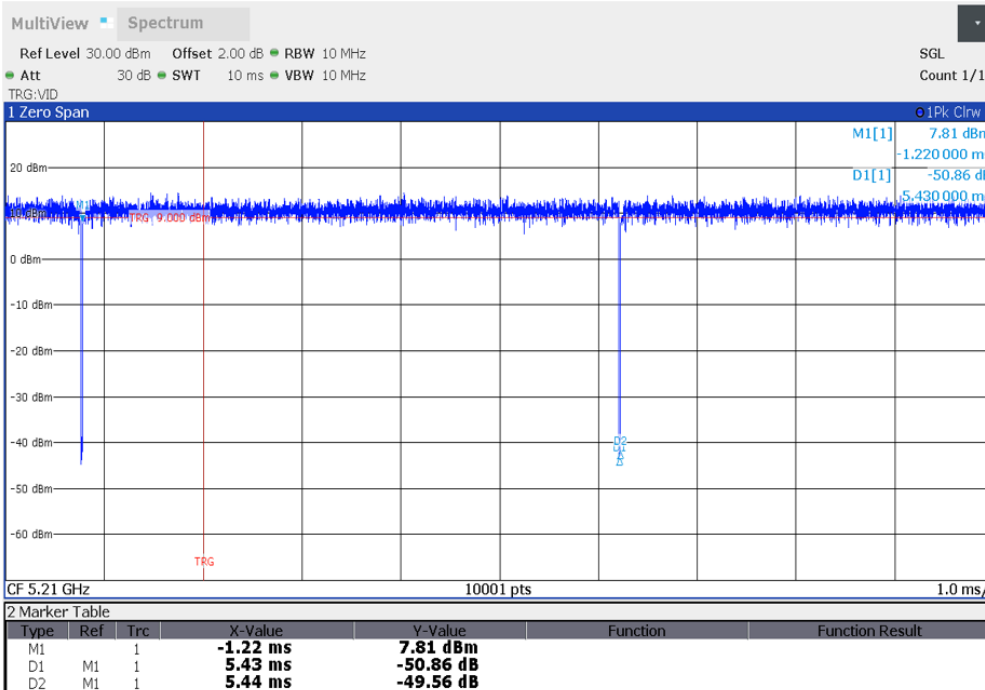
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Wi-Fi 5GHz 802.11ac VHT80 MIMO:
Duty cycle=99.82%



Wi-Fi 5GHz 802.11a MIMO:
Duty cycle=99.53%



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7.2.3.2 Initial Test Position SAR Test Reduction 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.

7.2.3.3 Initial Test Configuration Procedures

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.

7.2.3.4 Subsequent Test Configuration Procedures

SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.

- 1) . When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated



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band and exposure configuration.

- 2) . When the highest *reported* SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.
- 3) . The number of channels in the initial test configuration and subsequent test configuration can be different due to differences in channel bandwidth. When SAR measurement is required for a subsequent test configuration and the channel bandwidth is smaller than that in the initial test configuration, all channels in the subsequent test configuration that overlap with the larger bandwidth channel tested in the initial test configuration should be used to determine the highest maximum output power channel. This step requires additional power measurement to identify the highest maximum output power channel in the subsequent test configuration to determine SAR test reduction.
 - a) SAR should first be measured for the channel with highest measured output power in the subsequent test configuration.
 - b) SAR for subsequent highest measured maximum output power channels in the subsequent test configuration is required only when the *reported* SAR of the preceding higher maximum output power channel(s) in the subsequent test configuration is > 1.2 W/kg or until all required channels are tested. i) For channels with the same measured maximum output power, SAR should be measured using the channel closest to the center frequency of the larger channel bandwidth channel in the initial test configuration.
- 4) . SAR measurements for the remaining highest specified maximum output power OFDM transmission mode configurations that have not been tested in the initial test configuration (highest maximum output) or subsequent test configuration(s) (subsequent next highest maximum output power) is determined by recursively applying the subsequent test configuration procedures in this section to the remaining configurations according to the following:
 - a) replace “subsequent test configuration” with “next subsequent test configuration” (i.e., subsequent next highest specified maximum output power configuration)
 - b) replace “initial test configuration” with “all tested higher output power configurations”



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7.2.3.5 2.4 GHz WiFi 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. When SAR measurement is required for an OFDM configuration, the initial test configuration, subsequent test configuration and initial test position procedures are applied. The SAR test exclusion requirements for 802.11g/n OFDM configurations are described in following.

- **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 in 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.

- **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, including sub-sections). 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.

- **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.



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7.2.4 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The Anritsu MT8820C was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

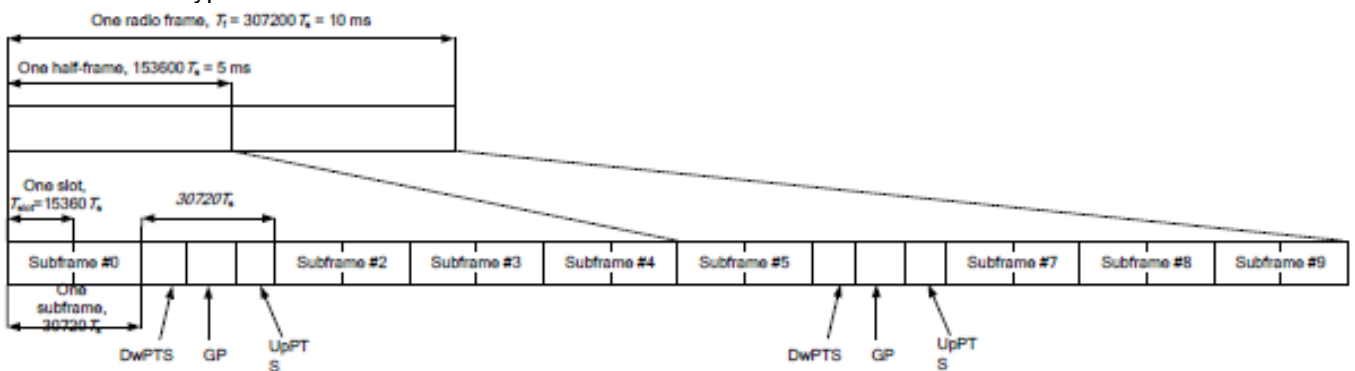
TDD LTE test consideration

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:



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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.Ts	2192.Ts	2560.Ts	7680.Ts	2192.Ts	2560.Ts
1	19760.Ts			20480.Ts		
2	21952.Ts			23040.Ts		
3	24144.Ts			25600.Ts		
4	26336.Ts			7680.Ts		
5	6592.Ts	4384.Ts	5120.Ts	20480.Ts	4384.Ts	5120.Ts
6	19760.Ts			23040.Ts		
7	21952.Ts			25600.Ts		
8	24144.Ts			-		
9	13168.Ts			-		

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

Calculated Duty Cycle=[Extended cyclic prefix in uplink x (Ts) 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



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A) Spectrum Plots for RB Configurations

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

B) MPR

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

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3

Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3
256 QAM	≥ 1						≤ 5

C) A-MPR

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

D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

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

2) QPSK with 50% RB allocation

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

3) QPSK with 100% RB allocation

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

4) Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in above sections to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is > ½ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

E) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > ½ 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.



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7.2.5 NR Band Test Configuration

1. NR Band n5/n7/n38/n41/n77/n78 support SA mode and n5/n78 support NSA mode. LTE+NR Band operations are possible only with LTE under EN-DC mode and the operations are possible as following table:

Band/Antenna	LTE Band 2		LTE Band 5		LTE Band 7				LTE Band 38				LTE Band 41			
	Ant0	Ant2	Ant0	Ant1	Ant0	Ant1	Ant2	Ant3	Ant0	Ant1	Ant2	Ant3	Ant0	Ant1	Ant2	Ant3
n5	Ant0					✓	✓	✓								
	Ant1				✓		✓	✓								
n78	Ant2	✓		✓	✓					✓	✓		✓	✓		✓
	Ant4	✓	✓	✓	✓					✓	✓	✓	✓	✓	✓	✓
	Ant5	✓	✓	✓	✓					✓	✓	✓	✓	✓	✓	✓
	Ant6	✓	✓	✓	✓					✓	✓	✓	✓	✓	✓	✓

2. The general information supported by the NR band is as following table:

Band		n5	n7	n38	n41	N66	n77	n78	
Modulation	DFT-s-OFDM	PI/2 BPSK	Yes	Yes	Yes	Yes	Yes	Yes	
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes	
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	
	CP-OFDM	QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Duty Cycle		100%	100%	100%	100%	100%	50%	50%

Band	SCS	Bandwidth												
		5Mhz	10Mhz	15Mhz	20Mhz	25Mhz	30Mhz	40Mhz	50Mhz	60Mhz	70Mhz	80Mhz	90Mhz	100Mhz
n5	15KHZ	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n7	15KHZ	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A
n38	30KHZ	N/A	N/A	N/A	Yes	N/A	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A
n41	30KHZ	N/A	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
n77	30KHZ	N/A	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
n78	30KHZ	N/A	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes



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3. 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



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4. 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	
CP-OFDM	256 QAM		≤ 4.5	
	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.

5. For FDD NR Band operation does not have the fixed UL/DL frame structure, but during the transmitting/ receiving it can be operated in the slot structure of 100% UL duty cycle, we are proposing the conservative way to evaluate SAR at 100% duty cycle. For the purpose of test NR Band standalone SAR, and also test SAR level at 100% TX duty cycle.

6. For 5G NR Sub6GHz SISO Mode, SAR Test plan as below:

- 1) For 5G NR NSA mode with the same UL EN_DC combination but different DL EN_DC combinations, eg: EN-DC configuration: UL DC_7A_n5 (UL two bands) with DL DC_7C_n5 (DL two bands)

a) The UL EN-DC configuration, including the Tx antenna configuration, RF path, the channel bandwidth and other operating parameters are the same.

b) The maximum output power, including tolerance, for the UL EN-DC configuration with DL two or more bands must be \leq the same UL EN-DC configuration with DL two bands only to qualify for the SAR test exclusion.

7. For EN-DC SAR, as the existing SAR test system cannot test the multiple different frequency bands simultaneous Transmission SAR at the same time, we suggest that the conservative “max + max” multi-Tx and SAR scaling method can be used to evaluate the inter-band Uplink EN-DC SAR from standalone SAR test results of each LTE and NR EN-DC component band and the conservative “max + max” multi-Tx method to combine the scaled SAR value from each EN-DC component band as the inter-band Uplink EN-DC SAR. All Simultaneous Transmission Scenarios will be evaluated independently in the final SAR report.

8. When the reported SAR for and EN DC configuration is greater than 1.2 W/kg, EN DC SAR is also required for other NR based test channels.

9. EN DC SAR is also required for standalone NR configurations greater than 1.2 W/kg when scaled to the EN DC power level.



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8 Test Result

8.1 Measurement of RF conducted Power

The detailed conducted power table can refer to Appendix E.

Note:

- 1) . For GSM SAR the time based average power is relevant. The difference in between depends on the duty cycle of the TDMA signal:

No. of timeslots	1	2	3	4
Duty Cycle	1:8.3	1:4.15	1:2.77	1:2.075
Time based avg. power compared to slotted avg. power	-9.19	-6.18	-4.42	-3.17

- 2) . The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:
 Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8
- 3) . When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used
- 4) . According to FCC guidance, the output power with uplink CA active was measured for the high / middle / low channel configuration with the highest reported SAR for each exposure condition, the power was measured with wideband signal integration over both component carriers.
- 5) . In applying the power measurement procedures of KDB 941225 D05A for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the subset in each row with the largest combination of frequency bands and CCs.
- 6) . Maximum output power measurement is required for each UL CA configuration for the required test channels described in KDB 941225 D05.
- 7) . Conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion per KDB 941225 D05A. Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive, therefore SAR evaluation with downlink carrier aggregation can be excluded.
 The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The detailed conducted power measurement results of downlink LTE CA are provided in the SAR report per 3GPP TS 36.521-1 V14.4.0. According to KDB 941225 D05A, the downlink only carrier aggregation conditions for this device can be excluded from SAR testing.
 The conducted power measurement results of downlink LTE CA Conducted Power are as Appendix E conducted RF output power, so the downlink only carrier aggregation conditions for this device can be excluded from SAR testing
- 8) . For conducted power of WIFI must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band. For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured. Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.



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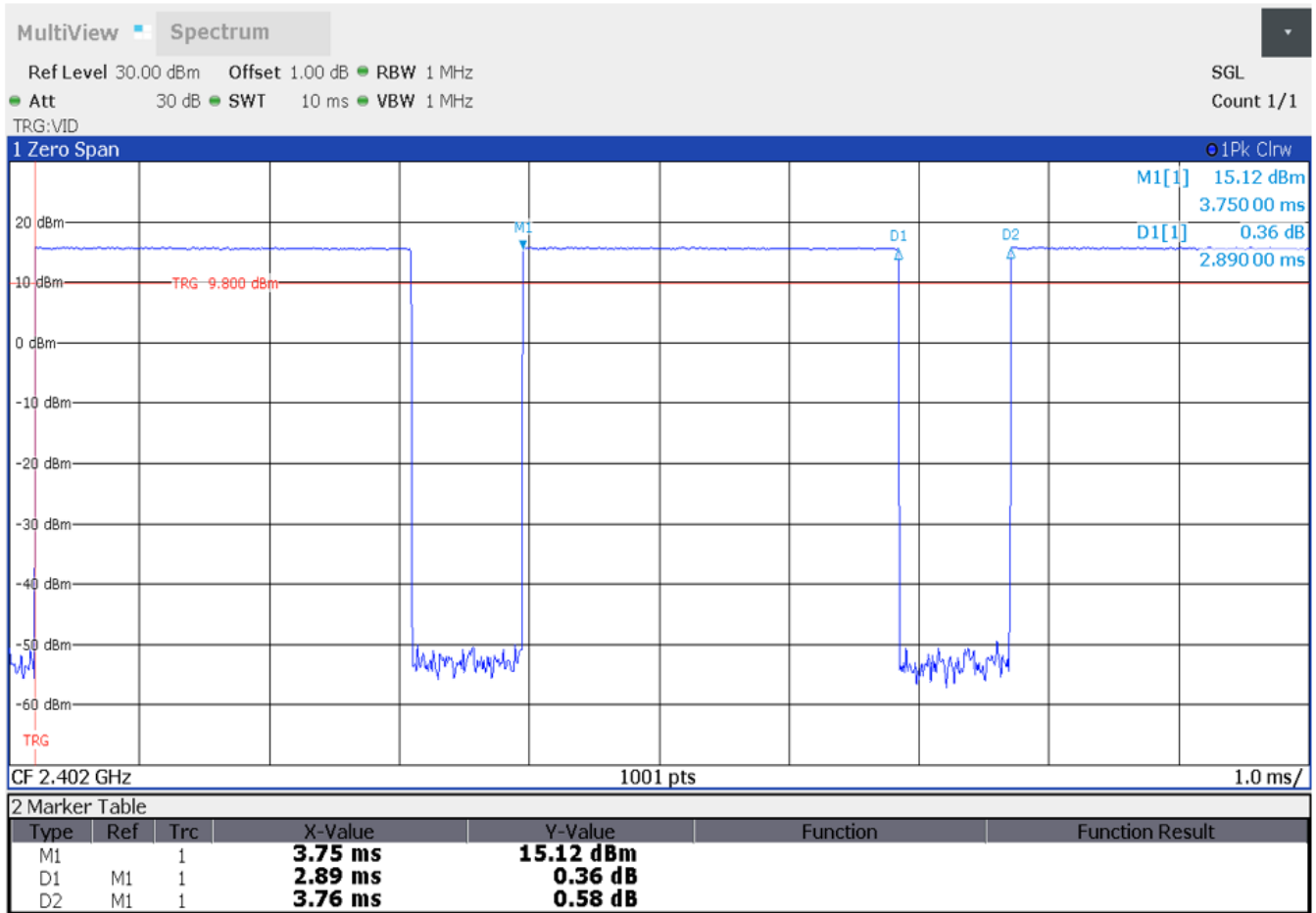
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- 1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.
- 2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.

9) . The conducted power of BT is measured with RMS detector.
Ant 7 BT DH5 Duty Cycle=76.86%

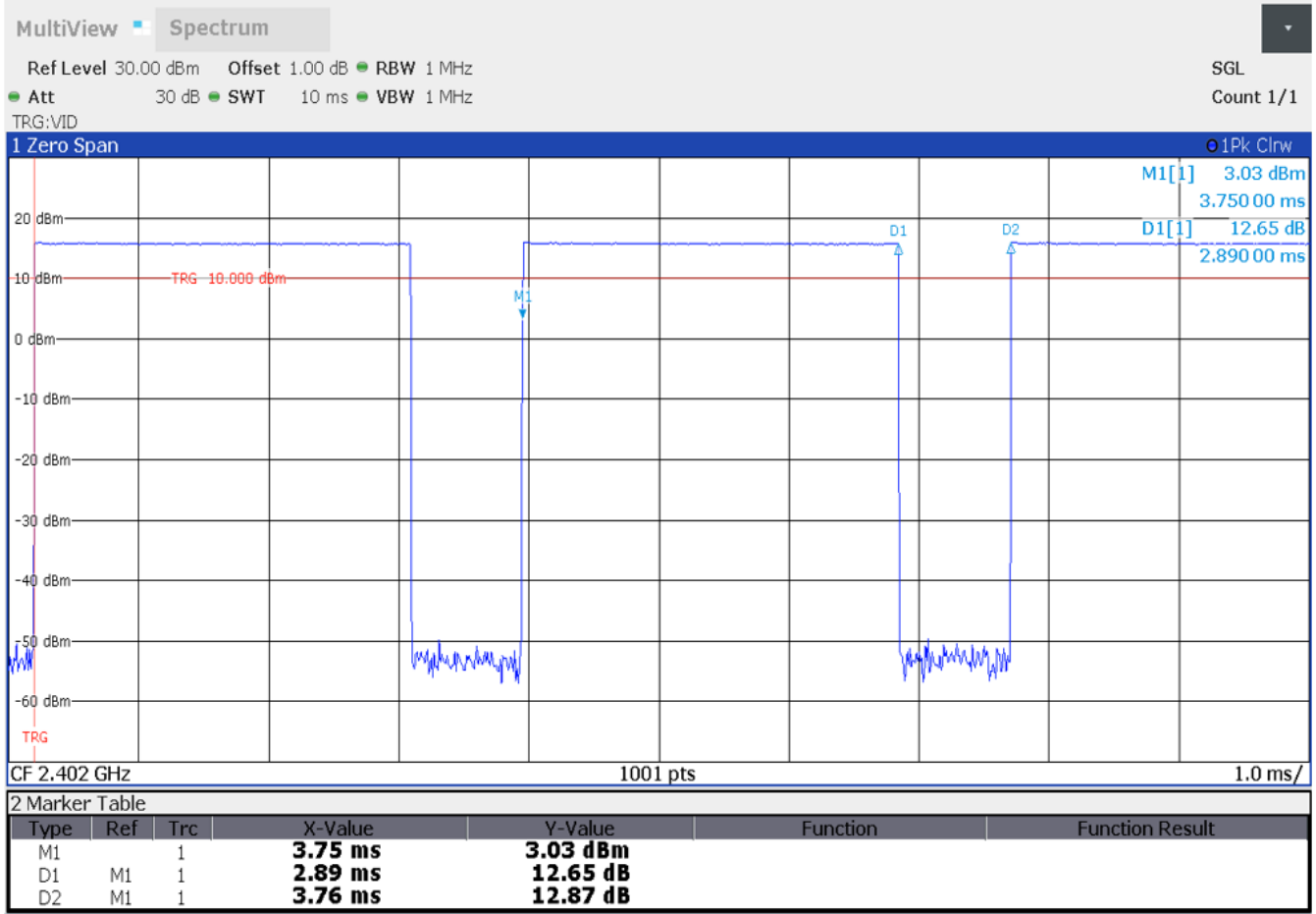


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Ant 7 BT DH5 Duty Cycle=76.86%



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8.2 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.
- 3) Maximum bandwidth does not support at least three non-overlapping channels in certain channel bandwidths. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

WiFi 2.4G:

- 1) 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.

WiFi 5G:

- 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.
- 3) 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.



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8.2.1 SAR Result of GSM850

GSM850 SAR Test Record										
Ant 0 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	GSM	190/836.6	1:8.3	0.036	-0.18	32.49	33.50	1.262	0.045	22.3
Left tilted	GSM	190/836.6	1:8.3	0.016	0.08	32.49	33.50	1.262	0.021	22.3
Right cheek	GSM	190/836.6	1:8.3	0.042	0.02	32.49	33.50	1.262	0.053	22.3
Right tilted	GSM	190/836.6	1:8.3	0.019	0.04	32.49	33.50	1.262	0.023	22.3
Body worn Test data(Separate 15mm)										
Front side	GSM	190/836.6	1:8.3	0.038	-0.03	32.49	33.50	1.262	0.048	22.3
Back side	GSM	190/836.6	1:8.3	0.055	0.11	32.49	33.50	1.262	0.069	22.3
Hotspot Test data(Separate 10mm)										
Front side	GPRS 2TS	190/836.6	1:4.15	0.097	0.12	30.03	31.00	1.250	0.122	22.3
Back side	GPRS 2TS	190/836.6	1:4.15	0.108	-0.09	30.03	31.00	1.250	0.135	22.3
Left side	GPRS 2TS	190/836.6	1:4.15	0.071	0.16	30.03	31.00	1.250	0.089	22.3
Right side	GPRS 2TS	190/836.6	1:4.15	0.060	-0.04	30.03	31.00	1.250	0.075	22.3
Bottom side	GPRS 2TS	190/836.6	1:4.15	0.062	0.06	30.03	31.00	1.250	0.077	22.3
Ant 1 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	GSM	190/836.6	1:8.3	0.536	0.14	32.43	34.00	1.435	0.769	22.3
Left tilted	GSM	190/836.6	1:8.3	0.481	-0.11	32.43	34.00	1.435	0.690	22.3
Right cheek	GSM	190/836.6	1:8.3	0.749	0.15	32.43	34.00	1.435	1.075	22.3
Right cheek	GSM	128/824.2	1:8.3	0.685	0.06	32.37	34.00	1.455	0.997	22.3
Right cheek	GSM	251/848.8	1:8.3	0.635	0.17	32.33	34.00	1.469	0.933	22.3
Right tilted	GSM	190/836.6	1:8.3	0.486	-0.08	32.43	34.00	1.435	0.698	22.3
Body worn Test data(Separate 15mm)										
Front side	GSM	190/836.6	1:8.3	0.125	0.14	32.43	34.00	1.435	0.179	22.3
Back side	GSM	190/836.6	1:8.3	0.159	-0.09	32.43	34.00	1.435	0.228	22.3
Hotspot Test data(Separate 10mm)										
Front side	GPRS 2TS	190/836.6	1:4.15	0.157	0.04	29.77	31.50	1.489	0.234	22.3
Back side	GPRS 2TS	190/836.6	1:4.15	0.327	0.15	29.77	31.50	1.489	0.487	22.3
Left side	GPRS 2TS	190/836.6	1:4.15	0.103	-0.02	29.77	31.50	1.489	0.153	22.3
Top side	GPRS 2TS	190/836.6	1:4.15	0.152	-0.11	29.77	31.50	1.489	0.226	22.3

Table 11: SAR of GSM850 for Head and Body



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8.2.2 SAR Result of GSM1900

GSM1900 SAR Test Record										
Ant 0 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	GSM	661/1880	1:8.3	0.085	0.05	29.74	30.50	1.191	0.102	22.3
Left tilted	GSM	661/1880	1:8.3	0.038	-0.14	29.74	30.50	1.191	0.045	22.3
Right cheek	GSM	661/1880	1:8.3	0.043	-0.02	29.74	30.50	1.191	0.051	22.3
Right tilted	GSM	661/1880	1:8.3	0.049	0.11	29.74	30.50	1.191	0.058	22.3
Body worn Test data(Separate 15mm)										
Front side	GSM	661/1880	1:8.3	0.147	0.07	29.74	30.50	1.191	0.175	22.3
Back side	GSM	661/1880	1:8.3	0.255	-0.15	29.74	30.50	1.191	0.304	22.3
Hotspot Test data(Separate 10mm)										
Front side	GPRS 4TS	661/1880	1:2.075	0.383	0.20	24.99	25.50	1.125	0.431	22.3
Back side	GPRS 4TS	661/1880	1:2.075	0.590	0.05	24.99	25.50	1.125	0.664	22.3
Left side	GPRS 4TS	661/1880	1:2.075	0.112	-0.15	24.99	25.50	1.125	0.126	22.3
Right side	GPRS 4TS	661/1880	1:2.075	0.099	0.07	24.99	25.50	1.125	0.111	22.3
Bottom side	GPRS 4TS	661/1880	1:2.075	0.414	-0.11	24.99	25.50	1.125	0.466	22.3
Ant 2 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	GSM	661/1880	1:8.3	0.273	0.14	27.06	28.50	1.393	0.380	22.3
Left tilted	GSM	661/1880	1:8.3	0.148	-0.08	27.06	28.50	1.393	0.206	22.3
Right cheek	GSM	661/1880	1:8.3	0.651	-0.16	27.06	28.50	1.393	0.907	22.3
Right cheek	GSM	512/1850.2	1:8.3	0.526	0.13	27.04	28.50	1.400	0.736	22.3
Right cheek	GSM	810/1909.8	1:8.3	0.668	0.03	27.06	28.50	1.393	0.931	22.3
Right tilted	GSM	661/1880	1:8.3	0.174	-0.06	27.06	28.50	1.393	0.242	22.3
Body worn Test data(Separate 15mm)										
Front side	GSM	661/1880	1:8.3	0.120	-0.05	29.38	31.00	1.452	0.174	22.3
Back side	GSM	661/1880	1:8.3	0.171	0.14	29.38	31.00	1.452	0.248	22.3
Hotspot Test data(Separate 10mm)										
Front side	GPRS 4TS	661/1880	1:2.075	0.123	-0.06	21.80	23.50	1.479	0.182	22.3
Back side	GPRS 4TS	661/1880	1:2.075	0.162	0.14	21.80	23.50	1.479	0.240	22.3
Left side	GPRS 4TS	661/1880	1:2.075	0.302	0.13	21.80	23.50	1.479	0.447	22.3

Table 12: SAR of GSM1900 for Head and Body.



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8.2.3 SAR Result of WCDMA Band II

W B2 SAR Test Record										
Ant 0 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	RMC	9400/1880	1:1	0.156	0.02	23.04	24.30	1.337	0.209	22.3
Left tilted	RMC	9400/1880	1:1	0.085	0.14	23.04	24.30	1.337	0.113	22.3
Right cheek	RMC	9400/1880	1:1	0.080	0.15	23.04	24.30	1.337	0.106	22.3
Right tilted	RMC	9400/1880	1:1	0.103	-0.11	23.04	24.30	1.337	0.138	22.3
Body worn Test data(Separate 15mm)										
Front side	RMC	9400/1880	1:1	0.310	-0.03	23.04	24.30	1.337	0.414	22.3
Back side	RMC	9400/1880	1:1	0.526	-0.01	23.04	24.30	1.337	0.703	22.3
Hotspot Test data(Separate 10mm)										
Front side	RMC	9400/1880	1:1	0.304	0.11	20.66	21.80	1.300	0.395	22.3
Back side	RMC	9400/1880	1:1	0.602	-0.02	20.66	21.80	1.300	0.783	22.3
Left side	RMC	9400/1880	1:1	0.134	0.16	20.66	21.80	1.300	0.174	22.3
Right side	RMC	9400/1880	1:1	0.117	-0.15	20.66	21.80	1.300	0.152	22.3
Bottom side	RMC	9400/1880	1:1	0.488	0.13	20.66	21.80	1.300	0.634	22.3
Ant 2 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	RMC	9400/1880	1:1	0.266	0.09	18.59	20.00	1.384	0.368	22.3
Left tilted	RMC	9400/1880	1:1	0.122	0.14	18.59	20.00	1.384	0.169	22.3
Right cheek	RMC	9400/1880	1:1	0.745	0.05	18.59	20.00	1.384	1.031	22.3
Right cheek	RMC	9262/1852.4	1:1	0.676	-0.17	18.56	20.00	1.393	0.942	22.3
Right cheek	RMC	9538/1907.6	1:1	0.625	0.19	18.52	20.00	1.406	0.879	22.3
Right tilted	RMC	9400/1880	1:1	0.146	0.04	18.59	20.00	1.384	0.202	22.3
Body worn Test data(Separate 15mm)										
Front side	RMC	9400/1880	1:1	0.168	0.17	22.72	24.50	1.507	0.253	22.3
Back side	RMC	9400/1880	1:1	0.273	0.16	22.72	24.50	1.507	0.411	22.3
Hotspot Test data(Separate 10mm)										
Front side	RMC	9400/1880	1:1	0.133	0.11	18.59	20.00	1.384	0.184	22.3
Back side	RMC	9400/1880	1:1	0.258	-0.17	18.59	20.00	1.384	0.357	22.3
Left side	RMC	9400/1880	1:1	0.297	-0.09	18.59	20.00	1.384	0.411	22.3

Table 13: SAR of WCDMA Band II for Head and Body.



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8.2.4 SAR Result of WCDMA Band IV

W B4 SAR Test Record										
Ant 0 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	RMC	1412/1732.4	1:1	0.154	0.05	23.97	24.70	1.183	0.182	22.4
Left tilted	RMC	1412/1732.4	1:1	0.070	-0.11	23.97	24.70	1.183	0.083	22.4
Right cheek	RMC	1412/1732.4	1:1	0.087	0.19	23.97	24.70	1.183	0.102	22.4
Right tilted	RMC	1412/1732.4	1:1	0.102	-0.15	23.97	24.70	1.183	0.121	22.4
Body worn Test data(Separate 15mm)										
Front side	RMC	1412/1732.4	1:1	0.336	0.13	23.97	24.70	1.183	0.398	22.4
Back side	RMC	1412/1732.4	1:1	0.825	0.05	23.97	24.70	1.183	0.976	22.4
Back side	RMC	1312/1712.4	1:1	0.702	-0.01	23.97	24.70	1.183	0.830	22.4
Back side	RMC	1513/1752.6	1:1	0.923	0.07	23.97	24.70	1.183	1.092	22.4
Hotspot Test data(Separate 10mm)										
Front side	RMC	1412/1732.4	1:1	0.286	0.17	21.40	21.70	1.072	0.306	22.4
Back side	RMC	1412/1732.4	1:1	0.838	-0.05	21.40	21.70	1.072	0.898	22.4
Back side	RMC	1312/1712.4	1:1	0.728	0.08	21.30	21.70	1.096	0.798	22.4
Back side	RMC	1513/1752.6	1:1	0.905	0.09	21.37	21.70	1.079	0.976	22.4
Back side-repeat	RMC	1513/1752.6	1:1	0.879	0.03	21.37	21.70	1.079	0.948	22.4
Left side	RMC	1412/1732.4	1:1	0.114	0.04	21.40	21.70	1.072	0.122	22.4
Rightt side	RMC	1412/1732.4	1:1	0.107	-0.11	21.40	21.70	1.072	0.115	22.4
Bottom side	RMC	1412/1732.4	1:1	0.723	0.12	21.40	21.70	1.072	0.775	22.4
Bottom side	RMC	1312/1712.4	1:1	0.558	0.06	21.30	21.70	1.096	0.612	22.4
Bottom side	RMC	1513/1752.6	1:1	0.759	0.14	21.37	21.70	1.079	0.819	22.4
Ant 2 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	RMC	1412/1732.4	1:1	0.321	0.12	19.99	21.00	1.262	0.405	22.4
Left tilted	RMC	1412/1732.4	1:1	0.204	-0.09	19.99	21.00	1.262	0.257	22.4
Right cheek	RMC	1412/1732.4	1:1	0.721	-0.06	19.99	21.00	1.262	0.910	22.4
Right cheek	RMC	1312/1712.4	1:1	0.675	0.05	19.93	21.00	1.279	0.864	22.4
Right cheek	RMC	1513/1752.6	1:1	0.856	0.17	19.97	21.00	1.268	1.085	22.4
Right tilted	RMC	1412/1732.4	1:1	0.207	0.03	19.99	21.00	1.262	0.261	22.4
Body worn Test data(Separate 15mm)										
Front side	RMC	1412/1732.4	1:1	0.226	-0.16	23.44	25.00	1.432	0.324	22.4
Back side	RMC	1412/1732.4	1:1	0.375	0.11	23.44	25.00	1.432	0.537	22.4
Hotspot Test data(Separate 10mm)										
Front side	RMC	1412/1732.4	1:1	0.194	0.04	19.99	21.00	1.262	0.245	22.4



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Back side	RMC	1412/1732.4	1:1	0.340	0.13	19.99	21.00	1.262	0.429	22.4
Left side	RMC	1412/1732.4	1:1	0.397	-0.07	19.99	21.00	1.262	0.501	22.4

Table 14: SAR of WCDMA Band IV for Head and Body.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Back side	1513/1752.6	0.972	0.948	1.0253	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 preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

3) A third repeated measurement was preformed 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



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8.2.5 SAR Result of WCDMA Band V

W B5 SAR Test Record										
Ant 0 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	RMC	4182/836.4	1:1	0.091	0.06	24.03	25.00	1.250	0.113	22.3
Left tilted	RMC	4182/836.4	1:1	0.043	-0.13	24.03	25.00	1.250	0.054	22.3
Right cheek	RMC	4182/836.4	1:1	0.105	0.17	24.03	25.00	1.250	0.131	22.3
Right tilted	RMC	4182/836.4	1:1	0.044	0.04	24.03	25.00	1.250	0.055	22.3
Body worn Test data(Separate 15mm)										
Front side	RMC	4182/836.4	1:1	0.095	-0.12	24.03	25.00	1.250	0.119	22.3
Back side	RMC	4182/836.4	1:1	0.129	0.09	24.03	25.00	1.250	0.161	22.3
Hotspot Test data(Separate 10mm)										
Front side	RMC	4182/836.4	1:1	0.087	0.13	24.03	25.00	1.250	0.109	22.3
Back side	RMC	4182/836.4	1:1	0.159	0.01	24.03	25.00	1.250	0.199	22.3
Left side	RMC	4182/836.4	1:1	0.091	-0.14	24.03	25.00	1.250	0.114	22.3
Right side	RMC	4182/836.4	1:1	0.101	0.07	24.03	25.00	1.250	0.126	22.3
Bottom side	RMC	4182/836.4	1:1	0.051	-0.06	24.03	25.00	1.250	0.064	22.3
Ant 1 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	RMC	4182/836.4	1:1	0.587	0.14	22.30	24.00	1.479	0.868	22.3
Left cheek	RMC	4132/826.4	1:1	0.582	0.01	22.24	24.00	1.500	0.873	22.3
Left cheek	RMC	4233/846.6	1:1	0.517	0.12	22.21	24.00	1.510	0.781	22.3
Left tilted	RMC	4182/836.4	1:1	0.432	0.09	22.30	24.00	1.479	0.639	22.3
Right cheek	RMC	4182/836.4	1:1	0.701	0.02	22.30	24.00	1.479	1.037	22.3
Right cheek	RMC	4132/826.4	1:1	0.589	0.07	22.24	24.00	1.500	0.883	22.3
Right cheek	RMC	4233/846.6	1:1	0.593	0.17	22.21	24.00	1.510	0.895	22.3
Right tilted	RMC	4182/836.4	1:1	0.539	-0.11	22.30	24.00	1.479	0.797	22.3
Body worn Test data(Separate 15mm)										
Front side	RMC	4182/836.4	1:1	0.163	0.17	23.66	25.50	1.528	0.249	22.3
Back side	RMC	4182/836.4	1:1	0.198	0.07	23.66	25.50	1.528	0.302	22.3
Hotspot Test data(Separate 10mm)										
Front side	RMC	4182/836.4	1:1	0.168	-0.19	22.30	24.00	1.479	0.248	22.3
Back side	RMC	4182/836.4	1:1	0.223	0.07	22.30	24.00	1.479	0.330	22.3
Left side	RMC	4182/836.4	1:1	0.114	-0.07	22.30	24.00	1.479	0.169	22.3
Top side	RMC	4182/836.4	1:1	0.171	-0.06	22.30	24.00	1.479	0.253	22.3

Table 15: SAR of WCDMA Band V for Head and Body.



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8.2.6 SAR Result of LTE Band 2

LTE Band 2 SAR Test Record											
Ant 0 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	18900/1880	1:1	0.095	0.13	22.92	23.80	1.225	0.117	22.2
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.042	0.18	22.92	23.80	1.225	0.052	22.2
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.049	-0.17	22.92	23.80	1.225	0.060	22.2
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.054	-0.01	22.92	23.80	1.225	0.066	22.2
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	18900/1880	1:1	0.064	0.07	22.11	22.80	1.172	0.075	22.2
Left tilted	20	QPSK 50_0	18900/1880	1:1	0.034	-0.14	22.11	22.80	1.172	0.040	22.2
Right cheek	20	QPSK 50_0	18900/1880	1:1	0.038	0.05	22.11	22.80	1.172	0.045	22.2
Right tilted	20	QPSK 50_0	18900/1880	1:1	0.043	-0.06	22.11	22.80	1.172	0.050	22.2
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	18900/1880	1:1	0.213	0.14	22.92	23.80	1.225	0.261	22.2
Back side	20	QPSK 1_0	18900/1880	1:1	0.353	0.07	22.92	23.80	1.225	0.432	22.2
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	18900/1880	1:1	0.162	-0.09	22.11	22.80	1.172	0.190	22.2
Back side	20	QPSK 50_0	18900/1880	1:1	0.291	-0.11	22.11	22.80	1.172	0.341	22.2
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	18900/1880	1:1	0.367	-0.07	22.50	23.30	1.202	0.441	22.2
Back side	20	QPSK 1_0	18900/1880	1:1	0.752	0.17	22.50	23.30	1.202	0.904	22.2
Back side for ENDC	20	QPSK 1_0	18900/1880	1:1	0.752	0.17	22.50	20.80	0.676	0.508	22.2
Back side	20	QPSK 1_0	18700/1860	1:1	0.562	0.12	22.35	23.30	1.245	0.699	22.2
Back side	20	QPSK 1_0	19100/1900	1:1	0.653	0.14	22.39	23.30	1.233	0.805	22.2
Left side	20	QPSK 1_0	18900/1880	1:1	0.090	0.16	22.50	23.30	1.202	0.108	22.2
Right side	20	QPSK 1_0	18900/1880	1:1	0.102	-0.09	22.50	23.30	1.202	0.123	22.2
Bottom side	20	QPSK 1_0	18900/1880	1:1	0.618	-0.14	22.50	23.30	1.202	0.743	22.2
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	18900/1880	1:1	0.294	0.03	21.95	22.80	1.216	0.358	22.2
Back side	20	QPSK 50_0	18900/1880	1:1	0.613	0.14	21.95	22.80	1.216	0.746	22.2
Left side	20	QPSK 50_0	18900/1880	1:1	0.092	0.05	21.95	22.80	1.216	0.112	22.2
Right side	20	QPSK 50_0	18900/1880	1:1	0.077	-0.01	21.95	22.80	1.216	0.094	22.2
Bottom side	20	QPSK 50_0	18900/1880	1:1	0.516	0.14	21.95	22.80	1.216	0.628	22.2
Hotspot Test data(Separate 10mm 100%RB)											
Back side	20	QPSK 100_0	18900/1880	1:1	0.605	0.03	21.84	22.80	1.247	0.755	22.2
Ant 2 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR	Liquid Temp.(°C)



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											1-g (W/kg)	
Head Test Data(1RB)												
Left cheek	20	QPSK 1_0	18900/1880	1:1	0.152	-0.09	17.45	19.00	1.429	0.217	22.2	
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.095	0.17	17.45	19.00	1.429	0.136	22.2	
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.402	-0.05	17.45	19.00	1.429	0.574	22.2	
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.109	-0.14	17.45	19.00	1.429	0.156	22.2	
Head Test Data(50%RB)												
Left cheek	20	QPSK 50_0	18900/1880	1:1	0.156	-0.17	17.37	19.00	1.455	0.227	22.2	
Left tilted	20	QPSK 50_0	18900/1880	1:1	0.097	0.03	17.37	19.00	1.455	0.141	22.2	
Right cheek	20	QPSK 50_0	18900/1880	1:1	0.478	0.19	17.37	19.00	1.455	0.696	22.2	
Right cheek for ENDC	20	QPSK 50_0	18900/1880	1:1	0.478	0.19	17.37	17.50	1.030	0.493	22.2	
Right tilted	20	QPSK 50_0	18900/1880	1:1	0.118	0.16	17.37	19.00	1.455	0.172	22.2	
Body worn Test data(Separate 15mm 1RB)												
Front side	20	QPSK 1_0	18900/1880	1:1	0.174	0.12	22.20	24.00	1.514	0.263	22.2	
Back side	20	QPSK 1_0	18900/1880	1:1	0.227	0.13	22.20	24.00	1.514	0.344	22.2	
Body worn Test data(Separate 15mm 50%RB)												
Front side	20	QPSK 50_0	18900/1880	1:1	0.145	-0.05	21.36	23.00	1.459	0.212	22.2	
Back side	20	QPSK 50_0	18900/1880	1:1	0.186	-0.14	21.36	23.00	1.459	0.271	22.2	
Hotspot Test data(Separate 10mm 1RB)												
Front side	20	QPSK 1_0	18900/1880	1:1	0.113	0.07	17.45	19.00	1.429	0.161	22.2	
Back side	20	QPSK 1_0	18900/1880	1:1	0.153	-0.09	17.45	19.00	1.429	0.219	22.2	
Left side	20	QPSK 1_0	18900/1880	1:1	0.248	-0.16	17.45	19.00	1.429	0.354	22.2	
Hotspot Test data(Separate 10mm 50%RB)												
Front side	20	QPSK 50_0	18900/1880	1:1	0.112	0.14	17.37	19.00	1.455	0.163	22.2	
Back side	20	QPSK 50_0	18900/1880	1:1	0.149	-0.08	17.37	19.00	1.455	0.217	22.2	
Left side	20	QPSK 50_0	18900/1880	1:1	0.260	0.16	17.37	19.00	1.455	0.378	22.2	

Table 16: SAR of LTE Band 2 for Head and Body.



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8.2.7 SAR Result of LTE Band 5

LTE Band 5 SAR Test Record											
Ant 0 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	10	QPSK 1_0	20525/836.5	1:1	0.074	0.04	24.78	25.50	1.180	0.088	22.1
Left tilted	10	QPSK 1_0	20525/836.5	1:1	0.034	0.04	24.78	25.50	1.180	0.040	22.1
Right cheek	10	QPSK 1_0	20525/836.5	1:1	0.087	0.06	24.78	25.50	1.180	0.103	22.1
Right tilted	10	QPSK 1_0	20525/836.5	1:1	0.037	0.13	24.78	25.50	1.180	0.044	22.1
Head Test Data(50%RB)											
Left cheek	10	QPSK 25_0	20525/836.5	1:1	0.056	-0.14	23.86	24.50	1.159	0.065	22.1
Left tilted	10	QPSK 25_0	20525/836.5	1:1	0.027	-0.06	23.86	24.50	1.159	0.032	22.1
Right cheek	10	QPSK 25_0	20525/836.5	1:1	0.066	0.11	23.86	24.50	1.159	0.076	22.1
Right tilted	10	QPSK 25_0	20525/836.5	1:1	0.030	0.18	23.86	24.50	1.159	0.035	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1_0	20525/836.5	1:1	0.038	0.13	24.78	25.50	1.180	0.045	22.1
Back side	10	QPSK 1_0	20525/836.5	1:1	0.076	0.04	24.78	25.50	1.180	0.089	22.1
Body worn Test data(Separate 15mm 50%RB)											
Front side	10	QPSK 25_0	20525/836.5	1:1	0.031	0.14	23.86	24.50	1.159	0.036	22.1
Back side	10	QPSK 25_0	20525/836.5	1:1	0.056	-0.16	23.86	24.50	1.159	0.065	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_0	20525/836.5	1:1	0.075	-0.04	24.78	25.50	1.180	0.089	22.1
Back side	10	QPSK 1_0	20525/836.5	1:1	0.155	0.07	24.78	25.50	1.180	0.183	22.1
Left side	10	QPSK 1_0	20525/836.5	1:1	0.070	0.06	24.78	25.50	1.180	0.083	22.1
Right side	10	QPSK 1_0	20525/836.5	1:1	0.069	-0.14	24.78	25.50	1.180	0.081	22.1
Bottom side	10	QPSK 1_0	20525/836.5	1:1	0.089	-0.19	24.78	25.50	1.180	0.105	22.1
Hotspot Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25_0	20525/836.5	1:1	0.050	0.12	23.86	24.50	1.159	0.058	22.1
Back side	10	QPSK 25_0	20525/836.5	1:1	0.086	-0.03	23.86	24.50	1.159	0.100	22.1
Left side	10	QPSK 25_0	20525/836.5	1:1	0.053	-0.09	23.86	24.50	1.159	0.062	22.1
Right side	10	QPSK 25_0	20525/836.5	1:1	0.057	0.19	23.86	24.50	1.159	0.066	22.1
Bottom side	10	QPSK 25_0	20525/836.5	1:1	0.052	-0.17	23.86	24.50	1.159	0.061	22.1
Ant 1 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	10	QPSK 1_0	20525/836.5	1:1	0.624	-0.13	22.97	24.00	1.268	0.791	22.1
Left tilted	10	QPSK 1_0	20525/836.5	1:1	0.555	0.16	22.97	24.00	1.268	0.704	22.1
Right cheek	10	QPSK 1_0	20525/836.5	1:1	0.715	0.02	22.97	24.00	1.268	0.906	22.1



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Right cheek	10	QPSK 1_0	20450/829	1:1	0.715	-0.01	22.86	24.00	1.300	0.930	22.1
Right cheek	10	QPSK 1_0	20600/844	1:1	0.752	-0.03	22.91	24.00	1.285	0.967	22.1
Right tilted	10	QPSK 1_0	20525/836.5	1:1	0.561	0.16	22.97	24.00	1.268	0.711	22.1
Head Test Data(50%RB)											
Left cheek	10	QPSK 25_0	20525/836.5	1:1	0.570	0.14	22.95	24.00	1.274	0.726	22.1
Left tilted	10	QPSK 25_0	20525/836.5	1:1	0.528	0.11	22.95	24.00	1.274	0.672	22.1
Right cheek	10	QPSK 25_0	20525/836.5	1:1	0.623	-0.02	22.95	24.00	1.274	0.793	22.1
Right tilted	10	QPSK 25_0	20525/836.5	1:1	0.532	0.12	22.95	24.00	1.274	0.678	22.1
Head Test Data(100%RB)											
Right cheek	10	QPSK 50_0	20525/836.5	1:1	0.784	-0.06	22.92	24.00	1.282	1.005	22.1
Right cheek for ENDC	10	QPSK 50_0	20525/836.5	1:1	0.784	-0.06	22.92	21.00	0.643	0.504	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1_0	20525/836.5	1:1	0.154	0.07	24.29	25.50	1.321	0.203	22.1
Back side	10	QPSK 1_0	20525/836.5	1:1	0.187	-0.13	24.29	25.50	1.321	0.247	22.1
Body worn Test data(Separate 15mm 50%RB)											
Front side	10	QPSK 25_0	20525/836.5	1:1	0.126	-0.18	23.43	24.50	1.279	0.161	22.1
Back side	10	QPSK 25_0	20525/836.5	1:1	0.149	-0.07	23.43	24.50	1.279	0.191	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_0	20525/836.5	1:1	0.179	-0.09	22.97	24.00	1.268	0.227	22.1
Back side	10	QPSK 1_0	20525/836.5	1:1	0.216	0.08	22.97	24.00	1.268	0.274	22.1
Left side	10	QPSK 1_0	20525/836.5	1:1	0.109	-0.15	22.97	24.00	1.268	0.138	22.1
Top side	10	QPSK 1_0	20525/836.5	1:1	0.186	-0.18	22.97	24.00	1.268	0.236	22.1
Hotspot Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25_0	20525/836.5	1:1	0.179	-0.04	22.95	24.00	1.274	0.228	22.1
Back side	10	QPSK 25_0	20525/836.5	1:1	0.248	-0.05	22.95	24.00	1.274	0.316	22.1
Left side	10	QPSK 25_0	20525/836.5	1:1	0.116	0.11	22.95	24.00	1.274	0.148	22.1
Top side	10	QPSK 25_0	20525/836.5	1:1	0.183	0.16	22.95	24.00	1.274	0.233	22.1

Table 17: SAR of LTE Band 5 for Head and Body.



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8.2.8 SAR Result of LTE Band 7

LTE Band 7 SAR Test Record											
Ant 0 Test Record											
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.230	0.07	23.98	25.00	1.265	0.291	22.1
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.096	0.14	23.98	25.00	1.265	0.121	22.1
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.464	0.01	23.98	25.00	1.265	0.587	22.1
Right cheek for CA-7C	20	QPSK 1_0	21100+20902/2535+2515.2	1:1	0.346	0.09	22.49	23.00	1.125	0.389	22.1
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.162	-0.14	23.98	25.00	1.265	0.205	22.1
Left cheek for ENDC	20	QPSK 1_0	21100/2535	1:1	0.180	-0.11	24.01	25.00	1.256	0.226	22.1
Left tilted for ENDC	20	QPSK 1_0	21100/2535	1:1	0.128	-0.14	24.01	25.00	1.256	0.161	22.1
Right cheek for ENDC	20	QPSK 1_0	21100/2535	1:1	0.345	0.04	24.01	25.00	1.256	0.433	22.1
Right tilted for ENDC	20	QPSK 1_0	21100/2535	1:1	0.207	-0.05	24.01	25.00	1.256	0.260	22.1
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.183	0.13	22.99	24.00	1.262	0.231	22.1
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.075	0.14	22.99	24.00	1.262	0.095	22.1
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.376	0.03	22.99	24.00	1.262	0.474	22.1
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.137	0.11	22.99	24.00	1.262	0.173	22.1
Left cheek for ENDC	20	QPSK 50_0	21100/2535	1:1	0.160	0.03	22.99	24.00	1.262	0.202	22.1
Left tilted for ENDC	20	QPSK 50_0	21100/2535	1:1	0.113	-0.04	22.99	24.00	1.262	0.143	22.1
Right cheek for ENDC	20	QPSK 50_0	21100/2535	1:1	0.331	0.01	22.99	24.00	1.262	0.418	22.1
Right tilted for ENDC	20	QPSK 50_0	21100/2535	1:1	0.189	-0.19	22.99	24.00	1.262	0.238	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	21100/2535	1:1	0.413	-0.14	23.98	25.00	1.265	0.522	22.1
Back side	20	QPSK 1_0	21100/2535	1:1	0.458	0.02	23.98	25.00	1.265	0.579	22.1
Back side for CA-7C	20	QPSK 1_0	21100+20902/2535+2515.2	1:1	0.336	0.07	22.49	23.00	1.125	0.378	22.1
Front side for ENDC	20	QPSK 1_0	21100/2535	1:1	0.327	-0.09	24.01	25.00	1.256	0.411	22.1
Back side for ENDC	20	QPSK 1_0	21100/2535	1:1	0.383	0.09	24.01	25.00	1.256	0.481	22.1
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	21100/2535	1:1	0.341	0.17	22.99	24.00	1.262	0.430	22.1



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Back side	20	QPSK 50_0	21100/2535	1:1	0.371	-0.06	22.99	24.00	1.262	0.468	22.1
Front side for ENDC	20	QPSK 50_0	21100/2535	1:1	0.309	0.02	22.99	24.00	1.262	0.390	22.1
Back side for ENDC	20	QPSK 50_0	21100/2535	1:1	0.369	0.07	22.99	24.00	1.262	0.466	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	21100/2535	1:1	0.356	0.16	21.16	22.00	1.213	0.432	22.1
Back side	20	QPSK 1_0	21100/2535	1:1	0.454	0.03	21.16	22.00	1.213	0.551	22.1
Back side for CA-7C	20	QPSK 1_0	21100+20902/2535+2515.2	1:1	0.367	0.03	21.45	22.00	1.135	0.417	22.1
Left side	20	QPSK 1_0	21100/2535	1:1	0.085	0.18	21.16	22.00	1.213	0.103	22.1
Rightt side	20	QPSK 1_0	21100/2535	1:1	0.267	-0.16	21.16	22.00	1.213	0.324	22.1
Bottom side	20	QPSK 1_0	21100/2535	1:1	0.392	0.12	21.16	22.00	1.213	0.476	22.1
Front side for ENDC	20	QPSK 1_0	21100/2535	1:1	0.331	0.08	18.75	19.50	1.189	0.393	22.1
Back side for ENDC	20	QPSK 1_0	21100/2535	1:1	0.366	0.03	18.75	19.50	1.189	0.435	22.1
Left side for ENDC	20	QPSK 1_0	21100/2535	1:1	0.061	-0.16	18.75	19.50	1.189	0.072	22.1
Rightt side for ENDC	20	QPSK 1_0	21100/2535	1:1	0.201	0.12	18.75	19.50	1.189	0.239	22.1
Bottom side for ENDC	20	QPSK 1_0	21100/2535	1:1	0.295	0.07	18.75	19.50	1.189	0.351	22.1
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	21100/2535	1:1	0.377	-0.18	21.11	22.00	1.227	0.463	22.1
Back side	20	QPSK 50_0	21100/2535	1:1	0.446	-0.13	21.11	22.00	1.227	0.547	22.1
Left side	20	QPSK 50_0	21100/2535	1:1	0.085	-0.11	21.11	22.00	1.227	0.104	22.1
Rightt side	20	QPSK 50_0	21100/2535	1:1	0.281	0.19	21.11	22.00	1.227	0.345	22.1
Bottom side	20	QPSK 50_0	21100/2535	1:1	0.391	0.06	21.11	22.00	1.227	0.480	22.1
Front side for ENDC	20	QPSK 50_0	21100/2535	1:1	0.313	0.01	18.72	19.50	1.197	0.375	22.1
Back side for ENDC	20	QPSK 50_0	21100/2535	1:1	0.357	-0.12	18.72	19.50	1.197	0.427	22.1
Left side for ENDC	20	QPSK 50_0	21100/2535	1:1	0.049	-0.17	18.72	19.50	1.197	0.059	22.1
Rightt side for ENDC	20	QPSK 50_0	21100/2535	1:1	0.182	0.1	18.72	19.50	1.197	0.218	22.1
Bottom side for ENDC	20	QPSK 50_0	21100/2535	1:1	0.276	0.09	18.72	19.50	1.197	0.330	22.1
Ant 1 Test Record											
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.475	0.08	17.89	19.00	1.291	0.613	22.1



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Left tilted	20	QPSK 1_0	21100/2535	1:1	0.590	0.14	17.89	19.00	1.291	0.762	22.1
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.658	-0.03	17.89	19.00	1.291	0.850	22.1
Right cheek	20	QPSK 1_0	20850/2510	1:1	0.646	0.17	17.75	19.00	1.334	0.861	22.1
Right cheek	20	QPSK 1_0	21350/2560	1:1	0.592	-0.09	17.82	19.00	1.312	0.777	22.1
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.771	0.09	17.89	19.00	1.291	0.996	22.1
Right tilted for CA-7C	20	QPSK 1_0	21100+20902/2535+2515.2	1:1	0.677	0.11	18.69	19.00	1.074	0.727	22.1
Right tilted	20	QPSK 1_0	20850/2510	1:1	0.728	0.16	17.75	19.00	1.334	0.971	22.1
Right tilted	20	QPSK 1_0	21350/2560	1:1	0.554	-0.12	17.75	19.00	1.334	0.739	22.1
Left cheek for ENDC	20	QPSK 1_0	21100/2535	1:1	0.273	0.17	16.72	17.00	1.067	0.291	22.1
Left tilted for ENDC	20	QPSK 1_0	21100/2535	1:1	0.310	0.12	16.72	17.00	1.067	0.331	22.1
Right cheek for ENDC	20	QPSK 1_0	21100/2535	1:1	0.323	-0.19	16.72	17.00	1.067	0.345	22.1
Right tilted for ENDC	20	QPSK 1_0	21100/2535	1:1	0.386	-0.17	16.72	17.00	1.067	0.412	22.1
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.488	-0.12	17.84	19.00	1.306	0.637	22.1
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.610	0.13	17.84	19.00	1.306	0.797	22.1
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.673	0.104	17.84	19.00	1.306	0.879	22.1
Right cheek	20	QPSK 50_0	20850/2510	1:1	0.687	-0.14	17.70	19.00	1.349	0.927	22.1
Right cheek	20	QPSK 50_0	21350/2560	1:1	0.592	0.05	17.81	19.00	1.315	0.779	22.1
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.678	-0.15	17.84	19.00	1.306	0.886	22.1
Right tilted	20	QPSK 50_0	20850/2510	1:1	0.696	-0.03	17.70	19.00	1.349	0.939	22.1
Right tilted	20	QPSK 50_0	21350/2560	1:1	0.644	0.17	17.81	19.00	1.315	0.847	22.1
Left cheek for ENDC	20	QPSK 50_0	21100/2535	1:1	0.270	0.17	16.09	17.00	1.233	0.333	22.1
Left tilted for ENDC	20	QPSK 50_0	21100/2535	1:1	0.307	-0.14	16.09	17.00	1.233	0.379	22.1
Right cheek for ENDC	20	QPSK 50_0	21100/2535	1:1	0.321	0.16	16.09	17.00	1.233	0.396	22.1
Right tilted for ENDC	20	QPSK 50_0	21100/2535	1:1	0.382	-0.14	16.09	17.00	1.233	0.471	22.1
Head Test Data(100%RB)											
Right cheek	20	QPSK 100_0	21100/2535	1:1	0.651	0.02	17.87	19.00	1.297	0.844	22.1
Right tilted	20	QPSK 100_0	21100/2535	1:1	0.706	-0.06	17.87	19.00	1.297	0.916	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	21100/2535	1:1	0.261	0.07	22.78	24.00	1.324	0.346	22.1
Back side	20	QPSK 1_0	21100/2535	1:1	0.315	-0.12	22.78	24.00	1.324	0.417	22.1
Back side for CA-7C	20	QPSK 1_0	21100+20902/2535+2515.2	1:1	0.248	-0.06	21.63	22.00	1.089	0.270	22.1



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Front side for ENDC	20	QPSK 1_0	21100/2535	1:1	0.243	0.14	24.04	25.50	1.400	0.340	22.1
Back side for ENDC	20	QPSK 1_0	21100/2535	1:1	0.382	0.19	24.04	25.50	1.400	0.535	22.1
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	21100/2535	1:1	0.209	0.03	21.96	23.00	1.271	0.266	22.1
Back side	20	QPSK 50_0	21100/2535	1:1	0.254	-0.08	21.96	23.00	1.271	0.323	22.1
Front side for ENDC	20	QPSK 50_0	21100/2535	1:1	0.216	0.02	23.06	24.50	1.393	0.301	22.1
Back side for ENDC	20	QPSK 50_0	21100/2535	1:1	0.341	-0.12	23.06	24.50	1.393	0.475	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	21100/2535	1:1	0.157	0.14	17.89	19.00	1.291	0.203	22.1
Back side	20	QPSK 1_0	21100/2535	1:1	0.167	0.09	17.89	19.00	1.291	0.216	22.1
Left side	20	QPSK 1_0	21100/2535	1:1	0.148	-0.17	17.89	19.00	1.291	0.191	22.1
Top side	20	QPSK 1_0	21100/2535	1:1	0.345	-0.03	17.89	19.00	1.291	0.445	22.1
Front side for ENDC	20	QPSK 1_0	21100/2535	1:1	0.149	-0.08	16.72	17.00	1.067	0.159	22.1
Back side for ENDC	20	QPSK 1_0	21100/2535	1:1	0.223	0.03	16.72	17.00	1.067	0.238	22.1
Left side for ENDC	20	QPSK 1_0	21100/2535	1:1	0.122	0.01	16.72	17.00	1.067	0.130	22.1
Top side for ENDC	20	QPSK 1_0	21100/2535	1:1	0.349	0.04	16.72	17.00	1.067	0.372	22.1
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	21100/2535	1:1	0.155	0.14	17.84	19.00	1.306	0.202	22.1
Back side	20	QPSK 50_0	21100/2535	1:1	0.169	-0.09	17.84	19.00	1.306	0.221	22.1
Left side	20	QPSK 50_0	21100/2535	1:1	0.135	-0.17	17.84	19.00	1.306	0.176	22.1
Top side	20	QPSK 50_0	21100/2535	1:1	0.356	0.06	17.84	19.00	1.306	0.465	22.1
Top side for CA-7C	20	QPSK 50_0	21100+20902/2535+2515.2	1:1	0.312	-0.04	18.69	19.00	1.074	0.335	22.1
Front side for ENDC	20	QPSK 50_0	21100/2535	1:1	0.144	-0.03	16.09	17.00	1.233	0.178	22.1
Back side for ENDC	20	QPSK 50_0	21100/2535	1:1	0.218	-0.03	16.09	17.00	1.233	0.269	22.1
Left side for ENDC	20	QPSK 50_0	21100/2535	1:1	0.120	0.1	16.09	17.00	1.233	0.148	22.1
Top side for ENDC	20	QPSK 50_0	21100/2535	1:1	0.348	-0.14	16.09	17.00	1.233	0.429	22.1
Ant 2 Test Record											
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scale factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.274	0.12	17.41	18.50	1.285	0.352	22.1
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.127	-0.08	17.41	18.50	1.285	0.163	22.1
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.769	-0.03	17.41	18.50	1.285	0.988	22.1



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Right cheek	20	QPSK 1_0	20850/2510	1:1	0.722	-0.14	17.14	18.50	1.368	0.988	22.1
Right cheek	20	QPSK 1_0	21350/2560	1:1	0.736	0.03	17.19	18.50	1.352	0.995	22.1
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.252	-0.04	17.41	18.50	1.285	0.324	22.1
Left cheek for ENDC	20	QPSK 1_0	21100/2535	1:1	0.137	-0.05	17.66	18.50	1.213	0.166	22.1
Left tilted for ENDC	20	QPSK 1_0	21100/2535	1:1	0.066	0.17	17.66	18.50	1.213	0.080	22.1
Right cheek for ENDC	20	QPSK 1_0	21100/2535	1:1	0.343	-0.09	17.66	18.50	1.213	0.416	22.1
Right tilted for ENDC	20	QPSK 1_0	21100/2535	1:1	0.132	-0.1	17.66	18.50	1.213	0.160	22.1
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.288	0.12	17.35	18.50	1.303	0.375	22.1
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.137	0.09	17.35	18.50	1.303	0.179	22.1
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.833	0.06	17.35	18.50	1.303	1.086	22.1
Right cheek-repeat	20	QPSK 50_0	21100/2535	1:1	0.805	0.09	17.35	18.50	1.303	1.049	22.1
Right cheek for CA-7C	20	QPSK 50_0	21100+20902/2535+2515.2	1:1	0.731	-0.02	17.33	18.50	1.309	0.957	22.1
Right cheek	20	QPSK 50_0	20850/2510	1:1	0.736	-0.13	17.13	18.50	1.371	1.009	22.1
Right cheek	20	QPSK 50_0	21350/2560	1:1	0.751	0.05	17.18	18.50	1.355	1.018	22.1
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.265	-0.09	17.35	18.50	1.303	0.345	22.1
Left cheek for ENDC	20	QPSK 50_0	21100/2535	1:1	0.127	-0.01	17.07	18.50	1.390	0.177	22.1
Left tilted for ENDC	20	QPSK 50_0	21100/2535	1:1	0.060	-0.09	17.07	18.50	1.390	0.083	22.1
Right cheek for ENDC	20	QPSK 50_0	21100/2535	1:1	0.329	-0.17	17.07	18.50	1.390	0.457	22.1
Right tilted for ENDC	20	QPSK 50_0	21100/2535	1:1	0.118	-0.13	17.07	18.50	1.390	0.164	22.1
Head Test Data(100%RB)											
Right cheek	20	QPSK 100_0	21100/2535	1:1	0.725	0.14	17.26	18.50	1.330	0.965	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	21100/2535	1:1	0.149	0.03	18.38	19.50	1.294	0.193	22.1
Back side	20	QPSK 1_0	21100/2535	1:1	0.176	-0.07	18.38	19.50	1.294	0.228	22.1
Front side for ENDC	20	QPSK 1_0	21100/2535	1:1	0.080	0.14	18.70	19.50	1.202	0.096	22.1
Back side for ENDC	20	QPSK 1_0	21100/2535	1:1	0.103	-0.07	18.70	19.50	1.202	0.124	22.1
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	21100/2535	1:1	0.163	0.11	18.49	19.50	1.262	0.206	22.1
Back side	20	QPSK 50_0	21100/2535	1:1	0.183	0.15	18.49	19.50	1.262	0.231	22.1
Back side for CA-7C	20	QPSK 50_0	21100+20902/2535+2515.2	1:1	0.167	-0.14	17.44	18.50	1.276	0.213	22.1
Front side for ENDC	20	QPSK 50_0	21100/2535	1:1	0.059	-0.13	18.13	19.50	1.371	0.081	22.1



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Back side for ENDC	20	QPSK 50_0	21100/2535	1:1	0.087	0.06	18.13	19.50	1.371	0.119	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	21100/2535	1:1	0.248	-0.09	17.41	18.50	1.285	0.319	22.1
Back side	20	QPSK 1_0	21100/2535	1:1	0.281	0.01	17.41	18.50	1.285	0.361	22.1
Left side	20	QPSK 1_0	21100/2535	1:1	0.342	0.18	17.41	18.50	1.285	0.440	22.1
Front side for ENDC	20	QPSK 1_0	21100/2535	1:1	0.151	0.03	17.66	18.50	1.213	0.183	22.1
Back side for ENDC	20	QPSK 1_0	21100/2535	1:1	0.210	0.05	17.66	18.50	1.213	0.255	22.1
Left side for ENDC	20	QPSK 1_0	21100/2535	1:1	0.213	-0.12	17.66	18.50	1.213	0.258	22.1
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	21100/2535	1:1	0.237	-0.06	17.35	18.50	1.303	0.309	22.1
Back side	20	QPSK 50_0	21100/2535	1:1	0.299	-0.13	17.35	18.50	1.303	0.390	22.1
Left side	20	QPSK 50_0	21100/2535	1:1	0.367	0.02	17.35	18.50	1.303	0.478	22.1
Left side for CA-7C	20	QPSK 50_0	21100+20902/2535+2515.2	1:1	0.341	-0.06	17.33	18.50	1.309	0.446	22.1
Front side for ENDC	20	QPSK 50_0	21100/2535	1:1	0.128	0.15	17.07	18.50	1.390	0.178	22.1
Back side for ENDC	20	QPSK 50_0	21100/2535	1:1	0.175	0.11	17.07	18.50	1.390	0.243	22.1
Left side for ENDC	20	QPSK 50_0	21100/2535	1:1	0.176	0.13	17.07	18.50	1.390	0.245	22.1
Ant 3 Test Record											
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.132	-0.14	22.76	24.00	1.330	0.176	22.1
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.020	-0.11	22.76	24.00	1.330	0.026	22.1
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.140	0.09	22.76	24.00	1.330	0.186	22.1
Right cheek for CA-7C	20	QPSK 1_0	21100+20902/2535+2515.2	1:1	0.094	-0.08	20.85	22.00	1.303	0.122	22.1
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.015	0.04	22.76	24.00	1.330	0.019	22.1
Left cheek for ENDC	20	QPSK 1_0	21100/2535	1:1	0.143	-0.04	24.23	25.50	1.340	0.192	22.1
Left tilted for ENDC	20	QPSK 1_0	21100/2535	1:1	0.057	0.09	24.23	25.50	1.340	0.076	22.1
Right cheek for ENDC	20	QPSK 1_0	21100/2535	1:1	0.089	-0.03	24.23	25.50	1.340	0.119	22.1
Right tilted for ENDC	20	QPSK 1_0	21100/2535	1:1	0.084	0.19	24.23	25.50	1.340	0.113	22.1
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.107	0.12	21.91	23.00	1.285	0.138	22.1
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.014	-0.16	21.91	23.00	1.285	0.019	22.1



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Right cheek	20	QPSK 50_0	21100/2535	1:1	0.140	0.03	21.91	23.00	1.285	0.180	22.1
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.013	0.14	21.91	23.00	1.285	0.016	22.1
Left cheek for ENDC	20	QPSK 50_0	21100/2535	1:1	0.132	-0.14	23.33	24.50	1.309	0.173	22.1
Left tilted for ENDC	20	QPSK 50_0	21100/2535	1:1	0.044	0.14	23.33	24.50	1.309	0.058	22.1
Right cheek for ENDC	20	QPSK 50_0	21100/2535	1:1	0.079	0.14	23.33	24.50	1.309	0.103	22.1
Right tilted for ENDC	20	QPSK 50_0	21100/2535	1:1	0.072	-0.15	23.33	24.50	1.309	0.094	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	21100/2535	1:1	0.159	0.06	22.76	24.00	1.330	0.212	22.1
Back side	20	QPSK 1_0	21100/2535	1:1	0.349	0.08	22.76	24.00	1.330	0.464	22.1
Back side CA-7C	20	QPSK 1_0	21100+20902/2535+2515.2	1:1	0.241	-0.07	20.85	22.00	1.303	0.314	22.1
Front side for ENDC	20	QPSK 1_0	21100/2535	1:1	0.103	-0.03	24.23	25.50	1.340	0.138	22.1
Back side for ENDC	20	QPSK 1_0	21100/2535	1:1	0.322	0.02	24.23	25.50	1.340	0.431	22.1
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	21100/2535	1:1	0.129	0.14	21.91	23.00	1.285	0.166	22.1
Back side	20	QPSK 50_0	21100/2535	1:1	0.287	0.06	21.91	23.00	1.285	0.369	22.1
Front side for ENDC	20	QPSK 50_0	21100/2535	1:1	0.076	-0.13	23.33	24.50	1.309	0.099	22.1
Back side for ENDC	20	QPSK 50_0	21100/2535	1:1	0.289	-0.1	23.33	24.50	1.309	0.378	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	21100/2535	1:1	0.194	-0.06	20.97	22.00	1.268	0.246	22.1
Back side	20	QPSK 1_0	21100/2535	1:1	0.455	0.12	20.97	22.00	1.268	0.577	22.1
Left side	20	QPSK 1_0	21100/2535	1:1	0.404	-0.16	20.97	22.00	1.268	0.512	22.1
Bottom side	20	QPSK 1_0	21100/2535	1:1	0.017	0.09	20.97	22.00	1.268	0.022	22.1
Front side for ENDC	20	QPSK 1_0	21100/2535	1:1	0.097	-0.09	17.82	18.50	1.169	0.113	22.1
Back side for ENDC	20	QPSK 1_0	21100/2535	1:1	0.286	-0.02	17.82	18.50	1.169	0.334	22.1
Left side for ENDC	20	QPSK 1_0	21100/2535	1:1	0.404	-0.19	17.82	18.50	1.169	0.472	22.1
Bottom side for ENDC	20	QPSK 1_0	21100/2535	1:1	0.039	-0.09	17.82	18.50	1.169	0.046	22.1
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	21100/2535	1:1	0.200	0.014	20.86	22.00	1.300	0.260	22.1
Back side	20	QPSK 50_0	21100/2535	1:1	0.502	0.03	20.86	22.00	1.300	0.653	22.1
Back side CA-7C	20	QPSK 50_0	21100+20902/2535+2515.2	1:1	0.423	-0.15	20.85	22.00	1.303	0.551	22.1
Left side	20	QPSK 50_0	21100/2535	1:1	0.436	0.19	20.86	22.00	1.300	0.567	22.1
Bottom side	20	QPSK 50_0	21100/2535	1:1	0.018	-0.08	20.86	22.00	1.300	0.024	22.1
Front side for ENDC	20	QPSK 50_0	21100/2535	1:1	0.076	-0.05	17.07	18.50	1.390	0.106	22.1



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Back side for ENDC	20	QPSK 50_0	21100/2535	1:1	0.255	-0.01	17.07	18.50	1.390	0.354	22.1
Left side for ENDC	20	QPSK 50_0	21100/2535	1:1	0.376	-0.18	17.07	18.50	1.390	0.523	22.1
Bottom side for ENDC	20	QPSK 50_0	21100/2535	1:1	0.025	-0.14	17.07	18.50	1.390	0.035	22.1

Table 18: SAR of LTE Band 7 for Head and Body.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	21100/2535	0.833	0.805	1.035	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 preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
 3) A third repeated measurement was preformed 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



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8.2.9 SAR Result of LTE Band 38

LTE Band 38 SAR Test Record											
Ant 1 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	38000/2595	1:1.58	0.363	0.01	20.97	22.00	1.268	0.460	22.3
Left tilted	20	QPSK 1_0	38000/2595	1:1.58	0.480	-0.01	20.97	22.00	1.268	0.608	22.3
Right cheek	20	QPSK 1_0	38000/2595	1:1.58	0.482	-0.06	20.97	22.00	1.268	0.611	22.3
Right tilted	20	QPSK 1_0	38000/2595	1:1.58	0.578	0.15	20.97	22.00	1.268	0.733	22.3
Right tilted for CA-38C	20	QPSK 1_0	37901+38099/2585.1+2604.9	1:1.58	0.498	0.01	20.95	22.00	1.274	0.634	22.3
Right tilted for ENDC	20	QPSK 1_0	38000/2595	1:1.58	0.578	0.15	20.97	19.00	0.635	0.367	22.3
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	38000/2595	1:1.58	0.358	-0.09	20.91	22.00	1.285	0.460	22.3
Left tilted	20	QPSK 50_0	38000/2595	1:1.58	0.464	0.06	20.91	22.00	1.285	0.596	22.3
Right cheek	20	QPSK 50_0	38000/2595	1:1.58	0.471	-0.02	20.91	22.00	1.285	0.605	22.3
Right tilted	20	QPSK 50_0	38000/2595	1:1.58	0.566	-0.11	20.91	22.00	1.285	0.727	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	38000/2595	1:1.58	0.168	-0.05	23.82	25.00	1.312	0.220	22.3
Back side	20	QPSK 1_0	38000/2595	1:1.58	0.208	0.06	23.82	25.00	1.312	0.273	22.3
Back side for CA-38C	20	QPSK 1_0	37901+38099/2585.1+2604.9	1:1.58	0.168	0.03	21.98	23.00	1.265	0.212	22.3
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	38000/2595	1:1.58	0.133	-0.11	22.99	24.00	1.262	0.168	22.3
Back side	20	QPSK 50_0	38000/2595	1:1.58	0.166	-0.17	22.99	24.00	1.262	0.209	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	38000/2595	1:1.58	0.127	-0.14	20.97	22.00	1.268	0.161	22.3
Back side	20	QPSK 1_0	38000/2595	1:1.58	0.170	0.11	20.97	22.00	1.268	0.216	22.3
Left side	20	QPSK 1_0	38000/2595	1:1.58	0.092	-0.03	20.97	22.00	1.268	0.117	22.3
Top side	20	QPSK 1_0	38000/2595	1:1.58	0.339	-0.08	20.97	22.00	1.268	0.430	22.3
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	38000/2595	1:1.58	0.139	-0.06	20.91	22.00	1.285	0.179	22.3
Back side	20	QPSK 50_0	38000/2595	1:1.58	0.164	0.11	20.91	22.00	1.285	0.211	22.3
Left side	20	QPSK 50_0	38000/2595	1:1.58	0.089	0.05	20.91	22.00	1.285	0.114	22.3
Top side	20	QPSK 50_0	38000/2595	1:1.58	0.344	0.17	20.91	22.00	1.285	0.442	22.3
Top side for CA-38C	20	QPSK 50_0	37901+38099/2585.1+2604.9	1:1.58	0.315	0.06	20.93	22.00	1.279	0.403	22.3
Top side for ENDC	20	QPSK 50_0	38000/2595	1:1.58	0.344	0.17	20.91	19.00	0.644	0.222	22.3
Ant 2 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	38000/2595	1:1.58	0.246	-0.03	20.25	20.50	1.059	0.261	22.3



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Left tilted	20	QPSK 1_0	38000/2595	1:1.58	0.119	-0.13	20.25	20.50	1.059	0.126	22.3
Right cheek	20	QPSK 1_0	38000/2595	1:1.58	0.769	0.11	20.25	20.50	1.059	0.815	22.3
Right tilted	20	QPSK 1_0	38000/2595	1:1.58	0.296	0.07	20.25	20.50	1.059	0.314	22.3
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	38000/2595	1:1.58	0.232	-0.13	20.20	20.50	1.072	0.249	22.3
Left tilted	20	QPSK 50_0	38000/2595	1:1.58	0.122	0.12	20.20	20.50	1.072	0.131	22.3
Right cheek	20	QPSK 50_0	38000/2595	1:1.58	0.804	0.09	20.20	20.50	1.072	0.862	22.3
Right cheek-repeat	20	QPSK 50_0	38000/2595	1:1.58	0.789	0.03	20.20	20.50	1.072	0.845	22.3
Right cheek for CA-38C	20	QPSK 50_0	37901+38099/2585.1+2604.9	1:1.58	0.651	0.09	19.56	20.50	1.242	0.808	22.3
Right cheek for ENDC	20	QPSK 50_0	38000/2595	1:1.58	0.804	0.09	20.20	18.50	0.676	0.544	22.3
Right tilted	20	QPSK 50_0	38000/2595	1:1.58	0.317	-0.03	20.20	20.50	1.072	0.340	22.3
Head Test Data(100%RB)											
Right cheek	20	QPSK 100_0	38000/2595	1:1.58	0.737	-0.01	20.17	20.50	1.079	0.795	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	38000/2595	1:1.58	0.189	0.11	21.64	22.50	1.219	0.230	22.3
Back side	20	QPSK 1_0	38000/2595	1:1.58	0.319	0.05	21.64	22.50	1.219	0.389	22.3
Back side for CA-38C	20	QPSK 1_0	37901+38099/2585.1+2604.9	1:1.58	0.265	0.04	21.68	22.50	1.208	0.320	22.3
Back side for ENDC	20	QPSK 1_0	38000/2595	1:1.58	0.319	0.05	21.14	21.00	0.968	0.309	22.3
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	38000/2595	1:1.58	0.191	0.10	20.77	21.50	1.183	0.226	22.3
Back side	20	QPSK 50_0	38000/2595	1:1.58	0.318	-0.09	20.77	21.50	1.183	0.376	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	38000/2595	1:1.58	0.218	-0.05	20.25	20.50	1.059	0.231	22.3
Back side	20	QPSK 1_0	38000/2595	1:1.58	0.405	0.10	20.25	20.50	1.059	0.429	22.3
Left side	20	QPSK 1_0	38000/2595	1:1.58	0.299	0.07	20.25	20.50	1.059	0.317	22.3
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	38000/2595	1:1.58	0.223	0.15	20.20	20.50	1.072	0.239	22.3
Back side	20	QPSK 50_0	38000/2595	1:1.58	0.428	0.06	20.20	20.50	1.072	0.459	22.3
Back side for CA-38C	20	QPSK 50_0	37901+38099/2585.1+2604.9	1:1.58	0.327	0.04	19.56	20.50	1.242	0.406	22.3
Back side for ENDC	20	QPSK 50_0	38000/2595	1:1.58	0.428	0.06	19.70	18.00	0.676	0.289	22.3
Left side	20	QPSK 50_0	38000/2595	1:1.58	0.332	-0.04	20.20	20.50	1.072	0.356	22.3
Ant 3 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	38000/2595	1:1.58	0.088	-0.15	23.40	24.50	1.288	0.113	22.3
Left cheek for CA-38C	20	QPSK 1_0	37901+38099/2585.1+2604.9	1:1.58	0.077	0.05	21.35	22.50	1.303	0.100	22.3
Left tilted	20	QPSK 1_0	38000/2595	1:1.58	0.012	0.01	23.40	24.50	1.288	0.015	22.3
Right cheek	20	QPSK 1_0	38000/2595	1:1.58	0.069	0.14	23.40	24.50	1.288	0.089	22.3
Right tilted	20	QPSK 1_0	38000/2595	1:1.58	0.009	-0.08	23.40	24.50	1.288	0.012	22.3
Head Test Data(50%RB)											



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Left cheek	20	QPSK 50_0	38000/2595	1:1.58	0.073	0.11	22.55	23.50	1.245	0.091	22.3
Left tilted	20	QPSK 50_0	38000/2595	1:1.58	0.008	-0.09	22.55	23.50	1.245	0.010	22.3
Right cheek	20	QPSK 50_0	38000/2595	1:1.58	0.056	0.13	22.55	23.50	1.245	0.070	22.3
Right tilted	20	QPSK 50_0	38000/2595	1:1.58	0.005	0.13	22.55	23.50	1.245	0.006	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	38000/2595	1:1.58	0.071	-0.11	23.40	24.50	1.288	0.091	22.3
Back side	20	QPSK 1_0	38000/2595	1:1.58	0.195	-0.15	23.40	24.50	1.288	0.251	22.3
Back side for CA-38C	20	QPSK 1_0	37901+38099/2585.1+2604.9	1:1.58	0.147	0.03	21.35	22.50	1.303	0.192	22.3
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	38000/2595	1:1.58	0.060	0.04	22.55	23.50	1.245	0.075	22.3
Back side	20	QPSK 50_0	38000/2595	1:1.58	0.163	0.10	22.55	23.50	1.245	0.203	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	38000/2595	1:1.58	0.098	-0.04	22.26	23.00	1.186	0.116	22.3
Back side	20	QPSK 1_0	38000/2595	1:1.58	0.314	0.04	22.26	23.00	1.186	0.372	22.3
Left side	20	QPSK 1_0	38000/2595	1:1.58	0.314	-0.05	22.26	23.00	1.186	0.372	22.3
Bottom side	20	QPSK 1_0	38000/2595	1:1.58	0.051	0.10	22.26	23.00	1.186	0.060	22.3
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	38000/2595	1:1.58	0.096	0.17	22.09	23.00	1.233	0.118	22.3
Back side	20	QPSK 50_0	38000/2595	1:1.58	0.304	-0.18	22.09	23.00	1.233	0.375	22.3
Left side	20	QPSK 50_0	38000/2595	1:1.58	0.327	-0.02	22.09	23.00	1.233	0.403	22.3
Left side for CA-38C	20	QPSK 50_0	37901+38099/2585.1+2604.9	1:1.58	0.277	0.04	20.32	21.50	1.312	0.363	22.3
Left side for ENDC	20	QPSK 50_0	38000/2595	1:1.58	0.327	-0.02	22.09	20.50	0.693	0.227	22.3
Bottom side	20	QPSK 50_0	38000/2595	1:1.58	0.047	0.04	22.09	23.00	1.233	0.058	22.3

Table 19: SAR of LTE Band 38 for Head and Body.



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8.2.10 SAR Result of LTE Band 41

LTE Band 41 SAR Test Record											
Ant 0 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.193	0.09	24.71	25.50	1.199	0.232	22.5
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.160	-0.11	24.71	25.50	1.199	0.192	22.5
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.417	0.07	24.71	25.50	1.199	0.500	22.5
Right cheek for CA-38C	20	QPSK 1_0	37901+38099/2585.1+2604.9	1:1.58	0.346	0.05	22.97	24.00	1.268	0.439	22.5
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.140	-0.18	24.71	25.50	1.199	0.168	22.5
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.149	0.14	23.85	24.50	1.161	0.173	22.5
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.146	-0.08	23.85	24.50	1.161	0.170	22.5
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.326	-0.05	23.85	24.50	1.161	0.379	22.5
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.116	-0.15	23.85	24.50	1.161	0.135	22.5
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.315	-0.17	24.71	25.50	1.199	0.378	22.5
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.353	0.07	24.71	25.50	1.199	0.423	22.5
Back side for CA-38C	20	QPSK 1_0	37901+38099/2585.1+2604.9	1:1.58	0.304	0.02	22.97	24.00	1.268	0.385	22.5
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.278	0.06	23.85	24.50	1.161	0.323	22.5
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.280	0.11	23.85	24.50	1.161	0.325	22.5
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.405	0.11	23.39	24.00	1.151	0.466	22.5
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.461	0.08	23.39	24.00	1.151	0.531	22.5
Back side for ENDC	20	QPSK 1_0	40620/2593	1:1.58	0.461	0.08	23.39	22.50	0.815	0.376	22.5
Back side for CA-38C	20	QPSK 1_0	37901+38099/2585.1+2604.9	1:1.58	0.401	0.06	22.97	24.00	1.268	0.508	22.5
Left side	20	QPSK 1_0	40620/2593	1:1.58	0.063	-0.15	23.39	24.00	1.151	0.072	22.5
Right side	20	QPSK 1_0	40620/2593	1:1.58	0.246	0.13	23.39	24.00	1.151	0.283	22.5
Bottom side	20	QPSK 1_0	40620/2593	1:1.58	0.390	-0.19	23.39	24.00	1.151	0.449	22.5
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.417	-0.18	23.38	24.00	1.153	0.481	22.5
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.447	0.02	23.38	24.00	1.153	0.516	22.5
Left side	20	QPSK 50_0	40620/2593	1:1.58	0.062	0.17	23.38	24.00	1.153	0.072	22.5
Right side	20	QPSK 50_0	40620/2593	1:1.58	0.246	-0.08	23.38	24.00	1.153	0.284	22.5
Bottom side	20	QPSK 50_0	40620/2593	1:1.58	0.395	-0.17	23.38	24.00	1.153	0.456	22.5
Ant 1 Test Record											



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Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.596	0.12	21.09	21.50	1.099	0.655	22.5
Left cheek	20	QPSK 1_0	39750/2506	1:1.58	0.656	-0.05	20.94	21.50	1.138	0.746	22.5
Left cheek	20	QPSK 1_0	40185/2549.5	1:1.58	0.631	-0.07	20.90	21.50	1.148	0.724	22.5
Left cheek	20	QPSK 1_0	41055/2636.5	1:1.58	0.671	0.14	20.88	21.50	1.153	0.774	22.5
Left cheek	20	QPSK 1_0	41490/2680	1:1.58	0.615	0.01	20.96	21.50	1.132	0.696	22.5
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.691	0.06	21.09	21.50	1.099	0.759	22.5
Left tilted	20	QPSK 1_0	39750/2506	1:1.58	0.704	0.03	20.94	21.50	1.138	0.801	22.5
Left tilted	20	QPSK 1_0	40185/2549.5	1:1.58	0.683	-0.04	20.90	21.50	1.148	0.784	22.5
Left tilted	20	QPSK 1_0	41055/2636.5	1:1.58	0.617	-0.14	20.88	21.50	1.153	0.712	22.5
Left tilted	20	QPSK 1_0	41490/2680	1:1.58	0.670	-0.19	20.96	21.50	1.132	0.759	22.5
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.699	0.08	21.09	21.50	1.099	0.768	22.5
Right cheek	20	QPSK 1_0	39750/2506	1:1.58	0.689	-0.17	20.94	21.50	1.138	0.784	22.5
Right cheek	20	QPSK 1_0	40185/2549.5	1:1.58	0.631	0.08	20.90	21.50	1.148	0.724	22.5
Right cheek	20	QPSK 1_0	41055/2636.5	1:1.58	0.665	-0.04	20.88	21.50	1.153	0.767	22.5
Right cheek	20	QPSK 1_0	41490/2680	1:1.58	0.704	0.09	20.96	21.50	1.132	0.797	22.5
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.787	-0.04	21.09	21.50	1.099	0.865	22.5
Right tilted	20	QPSK 1_0	39750/2506	1:1.58	0.724	0.11	20.94	21.50	1.138	0.824	22.5
Right tilted	20	QPSK 1_0	40185/2549.5	1:1.58	0.762	-0.13	20.90	21.50	1.148	0.875	22.5
Right tilted for ENDC	20	QPSK 1_0	40185/2549.5	1:1.58	0.762	-0.13	20.90	19.00	0.646	0.492	22.5
Right tilted	20	QPSK 1_0	41055/2636.5	1:1.58	0.722	-0.17	20.88	21.50	1.153	0.833	22.5
Right tilted	20	QPSK 1_0	41490/2680	1:1.58	0.716	0.16	20.96	21.50	1.132	0.811	22.5
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.608	0.03	20.98	21.50	1.127	0.685	22.5
Left cheek	20	QPSK 50_0	39750/2506	1:1.58	0.631	0.08	20.89	21.50	1.151	0.726	22.5
Left cheek	20	QPSK 50_0	40185/2549.5	1:1.58	0.620	-0.04	20.88	21.50	1.153	0.715	22.5
Left cheek	20	QPSK 50_0	41055/2636.5	1:1.58	0.611	-0.08	20.93	21.50	1.140	0.697	22.5
Left cheek	20	QPSK 50_0	41490/2680	1:1.58	0.679	-0.17	20.90	21.50	1.148	0.780	22.5
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.702	0.06	20.98	21.50	1.127	0.791	22.5
Left tilted	20	QPSK 50_0	39750/2506	1:1.58	0.686	0.04	20.89	21.50	1.151	0.789	22.5
Left tilted	20	QPSK 50_0	40185/2549.5	1:1.58	0.670	0.01	20.88	21.50	1.153	0.773	22.5
Left tilted	20	QPSK 50_0	41055/2636.5	1:1.58	0.679	0.09	20.93	21.50	1.140	0.774	22.5
Left tilted	20	QPSK 50_0	41490/2680	1:1.58	0.689	-0.11	20.90	21.50	1.148	0.791	22.5
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.673	0.07	20.98	21.50	1.127	0.759	22.5
Right cheek	20	QPSK 50_0	39750/2506	1:1.58	0.701	-0.13	20.89	21.50	1.151	0.807	22.5
Right cheek	20	QPSK 50_0	40185/2549.5	1:1.58	0.674	0.08	20.88	21.50	1.153	0.777	22.5
Right cheek	20	QPSK 50_0	41055/2636.5	1:1.58	0.667	0.06	20.93	21.50	1.140	0.761	22.5
Right cheek	20	QPSK 50_0	41490/2680	1:1.58	0.701	-0.04	20.90	21.50	1.148	0.805	22.5
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.712	0.09	20.98	21.50	1.127	0.803	22.5



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Right tilted	20	QPSK 50_0	39750/2506	1:1.58	0.688	0.07	20.89	21.50	1.151	0.792	22.5
Right tilted	20	QPSK 50_0	40185/2549.5	1:1.58	0.674	-0.16	20.88	21.50	1.153	0.777	22.5
Right tilted	20	QPSK 50_0	41055/2636.5	1:1.58	0.706	0.15	20.93	21.50	1.140	0.805	22.5
Right tilted	20	QPSK 50_0	41490/2680	1:1.58	0.715	0.12	20.90	21.50	1.148	0.821	22.5
Head Test Data(100%RB)											
Left cheek	20	QPSK 100_0	40620/2593	1:1.58	0.595	0.12	20.99	21.50	1.125	0.669	22.5
Left tilted	20	QPSK 100_0	40620/2593	1:1.58	0.651	-0.06	20.99	21.50	1.125	0.732	22.5
Right cheek	20	QPSK 100_0	40620/2593	1:1.58	0.682	-0.19	20.99	21.50	1.125	0.767	22.5
Right tilted	20	QPSK 100_0	40620/2593	1:1.58	0.725	-0.04	20.99	21.50	1.125	0.815	22.5
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.257	-0.15	23.88	24.50	1.153	0.296	22.5
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.305	0.17	23.88	24.50	1.153	0.352	22.5
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.210	-0.05	23.20	23.50	1.072	0.225	22.5
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.251	0.13	23.20	23.50	1.072	0.269	22.5
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.189	-0.19	21.09	21.50	1.099	0.208	22.5
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.215	0.07	21.09	21.50	1.099	0.236	22.5
Left side	20	QPSK 1_0	40620/2593	1:1.58	0.121	-0.06	21.09	21.50	1.099	0.133	22.5
Top side	20	QPSK 1_0	40620/2593	1:1.58	0.329	0.04	21.09	21.50	1.099	0.362	22.5
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.168	-0.17	20.98	21.50	1.127	0.189	22.5
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.208	0.06	20.98	21.50	1.127	0.234	22.5
Left side	20	QPSK 50_0	40620/2593	1:1.58	0.102	-0.16	20.98	21.50	1.127	0.115	22.5
Top side	20	QPSK 50_0	40620/2593	1:1.58	0.342	0.03	20.98	21.50	1.127	0.386	22.5
Top side for ENDC	20	QPSK 50_0	40620/2593	1:1.58	0.342	0.03	20.98	19.00	0.634	0.217	22.5
Ant 2 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.23	0.07	19.60	20.00	1.096	0.252	22.5
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.105	-0.14	19.60	20.00	1.096	0.115	22.5
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.722	0.03	19.60	20.00	1.096	0.792	22.5
Right cheek for ENDC	20	QPSK 1_0	40620/2593	1:1.58	0.722	0.03	19.60	18.00	0.692	0.500	22.5
Right cheek	20	QPSK 1_0	39750/2506	1:1.58	0.691	-0.11	19.46	20.00	1.132	0.782	22.5
Right cheek	20	QPSK 1_0	40185/2549.5	1:1.58	0.681	0.06	19.37	20.00	1.156	0.787	22.5
Right cheek	20	QPSK 1_0	41055/2636.5	1:1.58	0.691	0.01	19.45	20.00	1.135	0.784	22.5
Right cheek	20	QPSK 1_0	41490/2680	1:1.58	0.705	-0.03	19.47	20.00	1.130	0.797	22.5
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.237	-0.18	19.60	20.00	1.096	0.260	22.5
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.225	0.12	19.59	20.00	1.099	0.247	22.5



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Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.111	-0.03	19.59	20.00	1.099	0.122	22.5
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.696	0.06	19.59	20.00	1.099	0.765	22.5
Right cheek	20	QPSK 50_0	39750/2506	1:1.58	0.683	-0.13	19.47	20.00	1.130	0.772	22.5
Right cheek	20	QPSK 50_0	40185/2549.5	1:1.58	0.689	0.17	19.43	20.00	1.140	0.786	22.5
Right cheek	20	QPSK 50_0	41055/2636.5	1:1.58	0.660	0.14	19.40	20.00	1.148	0.758	22.5
Right cheek	20	QPSK 50_0	41490/2680	1:1.58	0.679	-0.08	19.42	20.00	1.143	0.776	22.5
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.236	-0.17	19.59	20.00	1.099	0.259	22.5
Head Test Data(100%RB)											
Right cheek	20	QPSK 100_0	40620/2593	1:1.58	0.665	0.13	19.57	20.00	1.104	0.734	22.5
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.161	0.19	21.48	22.00	1.127	0.181	22.5
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.208	0.11	21.48	22.00	1.127	0.234	22.5
Back side for ENDC	20	QPSK 1_0	40620/2593	1:1.58	0.208	0.11	21.48	21.00	0.895	0.186	22.5
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.160	-0.06	20.69	21.00	1.074	0.172	22.5
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.212	-0.08	20.69	21.00	1.074	0.228	22.5
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.195	0.14	19.60	20.00	1.096	0.214	22.5
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.263	0.08	19.60	20.00	1.096	0.288	22.5
Left side	20	QPSK 1_0	40620/2593	1:1.58	0.324	-0.09	19.60	20.00	1.096	0.355	22.5
Left side for ENDC	20	QPSK 1_0	40620/2593	1:1.58	0.324	-0.09	19.60	18.00	0.692	0.224	22.5
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.189	0.12	19.59	20.00	1.099	0.208	22.5
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.271	-0.13	19.59	20.00	1.099	0.298	22.5
Left side	20	QPSK 50_0	40620/2593	1:1.58	0.322	0.02	19.59	20.00	1.099	0.354	22.5
Ant 3 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.097	0.11	23.53	24.50	1.250	0.121	22.5
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.014	0.16	23.53	24.50	1.250	0.017	22.5
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.068	-0.04	23.53	24.50	1.250	0.085	22.5
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.011	-0.13	23.53	24.50	1.250	0.014	22.5
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.075	0.07	22.71	23.50	1.199	0.090	22.5
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.010	-0.01	22.71	23.50	1.199	0.012	22.5
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.066	-0.19	22.71	23.50	1.199	0.079	22.5
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.009	0.11	22.71	23.50	1.199	0.011	22.5
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.079	0.09	23.53	24.50	1.250	0.099	22.5
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.226	0.05	23.53	24.50	1.250	0.283	22.5
Body worn Test data(Separate 15mm 50%RB)											



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Front side	20	QPSK 50_0	40620/2593	1:1.58	0.063	-0.01	22.71	23.50	1.199	0.076	22.5
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.172	-0.14	22.71	23.50	1.199	0.206	22.5
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.095	-0.16	21.26	22.00	1.186	0.113	22.5
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.285	0.17	21.26	22.00	1.186	0.338	22.5
Back side for ENDC	20	QPSK 1_0	40620/2593	1:1.58	0.285	0.17	21.26	20.50	0.839	0.239	22.5
Left side	20	QPSK 1_0	40620/2593	1:1.58	0.273	0.12	21.26	22.00	1.186	0.324	22.5
Bottom side	20	QPSK 1_0	40620/2593	1:1.58	0.009	0.11	21.26	22.00	1.186	0.011	22.5
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.097	-0.04	21.20	22.00	1.202	0.116	22.5
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.253	0.12	21.20	22.00	1.202	0.304	22.5
Left side	20	QPSK 50_0	40620/2593	1:1.58	0.280	0.16	21.20	22.00	1.202	0.337	22.5
Bottom side	20	QPSK 50_0	40620/2593	1:1.58	0.009	-0.07	21.20	22.00	1.202	0.010	22.5

Table 20: SAR of LTE Band 41 for Head and Body.

Note: LTE B38 Intra-band U-L CA test at the worst case of LTE B41.



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8.2.1 SAR Result of LTE Band66

LTE Band 66 SAR Test Record											
Ant 0 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.107	0.05	23.69	24.20	1.125	0.120	22.5
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.038	0.16	23.69	24.20	1.125	0.043	22.5
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.058	0.08	23.69	24.20	1.125	0.065	22.5
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.057	-0.01	23.69	24.20	1.125	0.064	22.5
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.081	0.12	22.78	23.20	1.102	0.089	22.5
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.028	-0.07	22.78	23.20	1.102	0.031	22.5
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.044	-0.18	22.78	23.20	1.102	0.049	22.5
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.040	0.11	22.78	23.20	1.102	0.044	22.5
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	132322/1745	1:1	0.254	-0.19	23.69	24.20	1.125	0.286	22.5
Back side	20	QPSK 1_0	132322/1745	1:1	0.636	0.04	23.69	24.20	1.125	0.715	22.5
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	132322/1745	1:1	0.209	0.14	22.78	23.20	1.102	0.230	22.5
Back side	20	QPSK 50_0	132322/1745	1:1	0.473	-0.12	22.78	23.20	1.102	0.521	22.5
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	132322/1745	1:1	0.227	0.14	21.88	22.20	1.076	0.244	22.5
Back side	20	QPSK 1_0	132322/1745	1:1	0.748	0.02	21.88	22.20	1.076	0.805	22.5
Back side	20	QPSK 1_0	132072/1720	1:1	0.634	0.12	21.59	22.20	1.151	0.730	22.5
Back side	20	QPSK 1_0	132472/1760	1:1	0.786	0.07	21.57	22.20	1.156	0.909	22.5
Left side	20	QPSK 1_0	132322/1745	1:1	0.073	-0.17	21.88	22.20	1.076	0.079	22.5
Rightt side	20	QPSK 1_0	132322/1745	1:1	0.100	0.09	21.88	22.20	1.076	0.108	22.5
Bottom side	20	QPSK 1_0	132322/1745	1:1	0.659	-0.04	21.88	22.20	1.076	0.709	22.5
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	132322/1745	1:1	0.235	-0.09	21.71	22.20	1.119	0.263	22.5
Back side	20	QPSK 50_0	132322/1745	1:1	0.745	0.05	21.71	22.20	1.119	0.834	22.5
Back side	20	QPSK 50_0	132072/1720	1:1	0.664	-0.11	21.59	22.20	1.151	0.764	22.5
Back side	20	QPSK 50_0	132472/1760	1:1	0.767	0.14	21.60	22.20	1.148	0.881	22.5
Left side	20	QPSK 50_0	132322/1745	1:1	0.075	0.13	21.71	22.20	1.119	0.084	22.5
Rightt side	20	QPSK 50_0	132322/1745	1:1	0.106	-0.06	21.71	22.20	1.119	0.119	22.5
Bottom side	20	QPSK 50_0	132322/1745	1:1	0.689	0.08	21.71	22.20	1.119	0.771	22.5
Hotspot Test data(Separate 10mm 100%RB)											
Back side	20	QPSK 100_0	132322/1745	1:1	0.636	-0.09	21.70	22.20	1.122	0.714	22.5
Ant 1 Test Record											



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Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.447	0.15	19.12	20.00	1.225	0.547	22.5
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.422	0.03	19.12	20.00	1.225	0.517	22.5
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.694	-0.04	19.12	20.00	1.225	0.850	22.5
Right cheek	20	QPSK 1_0	132072/1720	1:1	0.748	0.11	18.87	20.00	1.297	0.970	22.5
Right cheek	20	QPSK 1_0	132472/1760	1:1	0.702	-0.14	18.98	20.00	1.265	0.888	22.5
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.873	-0.01	19.12	20.00	1.225	1.069	22.5
Right tilted-repeat	20	QPSK 1_0	132322/1745	1:1	0.865	0.02	19.12	20.00	1.225	1.059	22.5
Right tilted	20	QPSK 1_0	132072/1720	1:1	0.769	-0.17	18.87	20.00	1.297	0.998	22.5
Right tilted	20	QPSK 1_0	132472/1760	1:1	0.712	0.13	18.98	20.00	1.265	0.900	22.5
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.437	0.08	19.00	20.00	1.259	0.550	22.5
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.424	0.16	19.00	20.00	1.259	0.534	22.5
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.698	-0.16	19.00	20.00	1.259	0.879	22.5
Right cheek	20	QPSK 50_0	132072/1720	1:1	0.784	0.18	18.87	20.00	1.297	1.017	22.5
Right cheek	20	QPSK 50_0	132472/1760	1:1	0.660	0.03	18.95	20.00	1.274	0.841	22.5
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.739	0.17	19.00	20.00	1.259	0.930	22.5
Right tilted	20	QPSK 50_0	132072/1720	1:1	0.702	-0.09	18.87	20.00	1.297	0.911	22.5
Right tilted	20	QPSK 50_0	132472/1760	1:1	0.726	0.06	18.95	20.00	1.274	0.925	22.5
Head Test Data(100%RB)											
Right cheek	20	QPSK 100_0	132322/1745	1:1	0.688	-0.03	19.02	20.00	1.253	0.862	22.5
Right tilted	20	QPSK 100_0	132322/1745	1:1	0.711	0.02	19.02	20.00	1.253	0.891	22.5
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	132322/1745	1:1	0.305	-0.08	22.88	24.50	1.452	0.443	22.5
Back side	20	QPSK 1_0	132322/1745	1:1	0.522	0.11	22.88	24.50	1.452	0.758	22.5
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	132322/1745	1:1	0.236	0.12	22.02	23.50	1.406	0.332	22.5
Back side	20	QPSK 50_0	132322/1745	1:1	0.414	-0.13	22.02	23.50	1.406	0.582	22.5
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	132322/1745	1:1	0.235	0.11	19.12	20.00	1.225	0.288	22.5
Back side	20	QPSK 1_0	132322/1745	1:1	0.484	-0.08	19.12	20.00	1.225	0.593	22.5
Left side	20	QPSK 1_0	132322/1745	1:1	0.056	-0.07	19.12	20.00	1.225	0.069	22.5
Top side	20	QPSK 1_0	132322/1745	1:1	0.497	0.06	19.12	20.00	1.225	0.609	22.5
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	132322/1745	1:1	0.205	-0.06	19.00	20.00	1.259	0.258	22.5
Back side	20	QPSK 50_0	132322/1745	1:1	0.371	0.01	19.00	20.00	1.259	0.467	22.5
Left side	20	QPSK 50_0	132322/1745	1:1	0.056	0.05	19.00	20.00	1.259	0.070	22.5
Top side	20	QPSK 50_0	132322/1745	1:1	0.520	-0.15	19.00	20.00	1.259	0.655	22.5
Ant 2 Test Record											



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Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.285	0.14	19.48	20.70	1.324	0.377	22.5
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.163	0.06	19.48	20.70	1.324	0.216	22.5
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.720	-0.19	19.48	20.70	1.324	0.954	22.5
Right cheek	20	QPSK 1_0	132072/1720	1:1	0.682	0.04	19.37	20.70	1.358	0.926	22.5
Right cheek	20	QPSK 1_0	132472/1760	1:1	0.692	-0.08	19.35	20.70	1.365	0.944	22.5
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.184	0.13	19.48	20.70	1.324	0.244	22.5
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.287	0.11	19.34	20.70	1.368	0.393	22.5
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.164	-0.07	19.34	20.70	1.368	0.224	22.5
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.775	0.02	19.34	20.70	1.368	1.060	22.5
Right cheek	20	QPSK 50_0	132072/1720	1:1	0.712	0.11	19.32	20.70	1.374	0.978	22.5
Right cheek	20	QPSK 50_0	132472/1760	1:1	0.689	0.13	19.28	20.70	1.387	0.955	22.5
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.180	0.03	19.34	20.70	1.368	0.246	22.5
Head Test Data(100%RB)											
Right cheek	20	QPSK 100_0	132322/1745	1:1	0.616	0.17	19.34	20.70	1.368	0.843	22.5
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	132322/1745	1:1	0.235	-0.09	23.27	24.70	1.390	0.327	22.5
Back side	20	QPSK 1_0	132322/1745	1:1	0.289	0.12	23.27	24.70	1.390	0.402	22.5
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	132322/1745	1:1	0.188	0.03	22.37	23.70	1.358	0.255	22.5
Back side	20	QPSK 50_0	132322/1745	1:1	0.251	0.02	22.37	23.70	1.358	0.341	22.5
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	132322/1745	1:1	0.163	0.01	19.48	20.70	1.324	0.216	22.5
Back side	20	QPSK 1_0	132322/1745	1:1	0.278	-0.03	19.48	20.70	1.324	0.368	22.5
Left side	20	QPSK 1_0	132322/1745	1:1	0.353	0.07	19.48	20.70	1.324	0.467	22.5
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	132322/1745	1:1	0.189	-0.08	19.34	20.70	1.368	0.259	22.5
Back side	20	QPSK 50_0	132322/1745	1:1	0.231	-0.14	19.34	20.70	1.368	0.316	22.5
Left side	20	QPSK 50_0	132322/1745	1:1	0.396	-0.11	19.34	20.70	1.368	0.542	22.5
Ant 3 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.094	0.03	23.03	24.50	1.403	0.132	22.5
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.023	-0.14	23.03	24.50	1.403	0.033	22.5
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.043	0.11	23.03	24.50	1.403	0.060	22.5



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Right tilted	20	QPSK 1_0	132322/1745	1:1	0.014	0.08	23.03	24.50	1.403	0.020	22.5
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.073	-0.01	22.18	23.50	1.355	0.098	22.5
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.018	0.13	22.18	23.50	1.355	0.024	22.5
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.036	0.08	22.18	23.50	1.355	0.048	22.5
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.011	0.13	22.18	23.50	1.355	0.015	22.5
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	132322/1745	1:1	0.100	-0.11	23.03	24.50	1.403	0.140	22.5
Back side	20	QPSK 1_0	132322/1745	1:1	0.124	-0.09	23.03	24.50	1.403	0.174	22.5
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	132322/1745	1:1	0.082	0.14	22.18	23.50	1.355	0.111	22.5
Back side	20	QPSK 50_0	132322/1745	1:1	0.108	-0.06	22.18	23.50	1.355	0.146	22.5
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	132322/1745	1:1	0.170	0.04	23.03	24.50	1.403	0.238	22.5
Back side	20	QPSK 1_0	132322/1745	1:1	0.277	0.05	23.03	24.50	1.403	0.389	22.5
Left side	20	QPSK 1_0	132322/1745	1:1	0.271	0.15	23.03	24.50	1.403	0.380	22.5
Bottom side	20	QPSK 1_0	132322/1745	1:1	0.025	-0.16	23.03	24.50	1.403	0.035	22.5
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	132322/1745	1:1	0.139	-0.08	22.18	23.50	1.355	0.188	22.5
Back side	20	QPSK 50_0	132322/1745	1:1	0.264	0.12	22.18	23.50	1.355	0.358	22.5
Left side	20	QPSK 50_0	132322/1745	1:1	0.235	0.09	22.18	23.50	1.355	0.318	22.5
Bottom side	20	QPSK 50_0	132322/1745	1:1	0.019	0.06	22.18	23.50	1.355	0.026	22.5

Table 21: SAR of LTE Band 66 for Head and Body.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right tilted	132322/1745	0.873	0.865	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 preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
 3) A third repeated measurement was preformed 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



8.2.2 SAR Result of 5G NR n5

SA N5 SAR Test Record											
Ant0 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	20	QPSK 1_1	167300/836.5	1:1	0.057	0.02	24.83	25.50	1.167	0.066	22.1
Left tilted	20	QPSK 1_1	167300/836.5	1:1	0.019	-0.16	24.83	25.50	1.167	0.022	22.1
Right cheek	20	QPSK 1_1	167300/836.5	1:1	0.058	0.05	24.83	25.50	1.167	0.067	22.1
Right tilted	20	QPSK 1_1	167300/836.5	1:1	0.014	0.11	24.83	25.50	1.167	0.016	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK 50_28	167300/836.5	1:1	0.078	0.05	24.81	25.50	1.172	0.092	22.1
Left tilted	20	QPSK 50_28	167300/836.5	1:1	0.039	0.08	24.81	25.50	1.172	0.046	22.1
Right cheek	20	QPSK 50_28	167300/836.5	1:1	0.079	-0.04	24.81	25.50	1.172	0.093	22.1
Right tilted	20	QPSK 50_28	167300/836.5	1:1	0.033	0.01	24.81	25.50	1.172	0.038	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_1	167300/836.5	1:1	0.024	-0.06	24.83	25.50	1.167	0.028	22.1
Back side	20	QPSK 1_1	167300/836.5	1:1	0.102	0.01	24.83	25.50	1.167	0.119	22.1
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_28	167300/836.5	1:1	0.031	-0.07	24.81	25.50	1.172	0.036	22.1
Back side	20	QPSK 50_28	167300/836.5	1:1	0.119	0.05	24.81	25.50	1.172	0.139	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_1	167300/836.5	1:1	0.072	-0.06	24.83	25.50	1.167	0.084	22.1
Back side	20	QPSK 1_1	167300/836.5	1:1	0.169	0.01	24.83	25.50	1.167	0.197	22.1
Left side	20	QPSK 1_1	167300/836.5	1:1	0.064	0.08	24.83	25.50	1.167	0.075	22.1
Right side	20	QPSK 1_1	167300/836.5	1:1	0.068	-0.05	24.83	25.50	1.167	0.079	22.1
Bottom side	20	QPSK 1_1	167300/836.5	1:1	0.052	0.13	24.83	25.50	1.167	0.061	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50_28	167300/836.5	1:1	0.086	0.01	24.81	25.50	1.172	0.101	22.1
Back side	20	QPSK 50_28	167300/836.5	1:1	0.188	0.07	24.81	25.50	1.172	0.220	22.1
Left side	20	QPSK 50_28	167300/836.5	1:1	0.071	0.06	24.81	25.50	1.172	0.083	22.1
Right side	20	QPSK 50_28	167300/836.5	1:1	0.074	0.05	24.81	25.50	1.172	0.087	22.1
Bottom side	20	QPSK 50_28	167300/836.5	1:1	0.066	-0.07	24.81	25.50	1.172	0.077	22.1
Ant1 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	20	QPSK 1_1	167300/836.5	1:1	0.568	0.03	23.22	24.00	1.197	0.680	22.1
Left tilted	20	QPSK 1_1	167300/836.5	1:1	0.577	0.15	23.22	24.00	1.197	0.691	22.1
Right cheek	20	QPSK 1_1	167300/836.5	1:1	0.785	0.06	23.22	24.00	1.197	0.939	22.1



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Right tilted	20	QPSK 1_1	167300/836.5	1:1	0.606	-0.11	23.22	24.00	1.197	0.725	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK 50_28	167300/836.5	1:1	0.597	0.01	23.18	24.00	1.208	0.721	22.1
Left tilted	20	QPSK 50_28	167300/836.5	1:1	0.608	0.02	23.18	24.00	1.208	0.734	22.1
Right cheek	20	QPSK 50_28	167300/836.5	1:1	0.811	0.07	23.18	24.00	1.208	0.980	22.1
Right cheek-repeat	20	QPSK 50_28	167300/836.5	1:1	0.802	0.04	23.18	24.00	1.208	0.969	22.1
Right cheek for ENDC	20	QPSK 50_28	167300/836.5	1:1	0.811	0.07	23.18	21.00	0.605	0.491	22.1
Right tilted	20	QPSK 50_28	167300/836.5	1:1	0.631	0.09	23.18	24.00	1.208	0.762	22.1
Head Test data(100%RB)											
Right cheek	20	QPSK 100_0	167300/836.5	1:1	0.791	-0.12	23.15	24.00	1.216	0.962	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_1	167300/836.5	1:1	0.115	0.10	24.62	25.50	1.225	0.141	22.1
Back side	20	QPSK 1_1	167300/836.5	1:1	0.202	-0.16	24.62	25.50	1.225	0.247	22.1
Body worn Test data (Separate 15mm 50%RB)											
Front side	20	QPSK 50_28	167300/836.5	1:1	0.136	0.15	24.59	25.50	1.233	0.168	22.1
Back side	20	QPSK 50_28	167300/836.5	1:1	0.226	0.05	24.59	25.50	1.233	0.279	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_1	167300/836.5	1:1	0.174	0.05	22.70	23.50	1.202	0.209	22.1
Back side	20	QPSK 1_1	167300/836.5	1:1	0.312	0.03	22.70	23.50	1.202	0.375	22.1
Left side	20	QPSK 1_1	167300/836.5	1:1	0.099	-0.15	22.70	23.50	1.202	0.119	22.1
Top side	20	QPSK 1_1	167300/836.5	1:1	0.184	0.12	22.70	23.50	1.202	0.221	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50_28	167300/836.5	1:1	0.204	-0.01	22.58	23.50	1.236	0.252	22.1
Back side	20	QPSK 50_28	167300/836.5	1:1	0.338	0.13	22.58	23.50	1.236	0.418	22.1
Left side	20	QPSK 50_28	167300/836.5	1:1	0.123	0.05	22.58	23.50	1.236	0.152	22.1
Top side	20	QPSK 50_28	167300/836.5	1:1	0.213	0.03	22.58	23.50	1.236	0.263	22.1

Table 22: SAR of 5G NR n5 for Head and Body.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	167300/836.5	0.811	0.802	1.011	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 measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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8.2.1 SAR Result of 5G NR n7

SA N7 SAR Test Record											
Ant0 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	50	QPSK 1_1	507000/2535	1:1	0.144	0.09	24.28	25.00	1.180	0.170	22.3
Left tilted	50	QPSK 1_1	507000/2535	1:1	0.093	0.12	24.28	25.00	1.180	0.110	22.3
Right cheek	50	QPSK 1_1	507000/2535	1:1	0.268	0.08	24.28	25.00	1.180	0.316	22.3
Right tilted	50	QPSK 1_1	507000/2535	1:1	0.110	-0.05	24.28	25.00	1.180	0.130	22.3
Head Test data(50%RB)											
Left cheek	50	QPSK 135_67	507000/2535	1:1	0.145	-0.05	24.21	25.00	1.199	0.174	22.3
Left tilted	50	QPSK 135_67	507000/2535	1:1	0.103	0.09	24.21	25.00	1.199	0.124	22.3
Right cheek	50	QPSK 135_67	507000/2535	1:1	0.307	0.09	24.21	25.00	1.199	0.368	22.3
Right tilted	50	QPSK 135_67	507000/2535	1:1	0.121	0.07	24.21	25.00	1.199	0.145	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	50	QPSK 1_1	507000/2535	1:1	0.156	-0.18	21.42	22.00	1.143	0.178	22.3
Back side	50	QPSK 1_1	507000/2535	1:1	0.180	-0.11	21.42	22.00	1.143	0.206	22.3
Body worn Test data(Separate 15mm 50%RB)											
Front side	50	QPSK 135_67	507000/2535	1:1	0.162	0.17	21.35	22.00	1.161	0.188	22.3
Back side	50	QPSK 135_67	507000/2535	1:1	0.188	0.03	21.35	22.00	1.161	0.218	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	50	QPSK 1_1	507000/2535	1:1	0.298	-0.01	21.42	22.00	1.143	0.341	22.3
Back side	50	QPSK 1_1	507000/2535	1:1	0.327	-0.16	21.42	22.00	1.143	0.374	22.3
Left side	50	QPSK 1_1	507000/2535	1:1	0.085	0.03	21.42	22.00	1.143	0.097	22.3
Right side	50	QPSK 1_1	507000/2535	1:1	0.203	0.19	21.42	22.00	1.143	0.232	22.3
Bottom side	50	QPSK 1_1	507000/2535	1:1	0.278	0.04	21.42	22.00	1.143	0.318	22.3
Hotspot Test data (Separate 10mm 50%RB)											
Front side	50	QPSK 135_67	507000/2535	1:1	0.262	0.10	21.35	22.00	1.161	0.304	22.3
Back side	50	QPSK 135_67	507000/2535	1:1	0.311	-0.16	21.35	22.00	1.161	0.361	22.3
Left side	50	QPSK 135_67	507000/2535	1:1	0.074	-0.10	21.35	22.00	1.161	0.086	22.3
Right side	50	QPSK 135_67	507000/2535	1:1	0.187	-0.11	21.35	22.00	1.161	0.217	22.3
Bottom side	50	QPSK 135_67	507000/2535	1:1	0.256	0.10	21.35	22.00	1.161	0.297	22.3
Ant1 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	50	QPSK 1_1	507000/2535	1:1	0.456	-0.16	18.44	19.00	1.138	0.519	22.3
Left tilted	50	QPSK 1_1	507000/2535	1:1	0.524	0.08	18.44	19.00	1.138	0.596	22.3
Right cheek	50	QPSK 1_1	507000/2535	1:1	0.623	0.01	18.44	19.00	1.138	0.709	22.3
Right tilted	50	QPSK 1_1	507000/2535	1:1	0.611	0.05	18.44	19.00	1.138	0.695	22.3
Head Test data(50%RB)											



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Left cheek	50	QPSK 135_67	507000/2535	1:1	0.498	0.01	18.35	19.00	1.161	0.578	22.3
Left tilted	50	QPSK 135_67	507000/2535	1:1	0.560	0.03	18.35	19.00	1.161	0.650	22.3
Right cheek	50	QPSK 135_67	507000/2535	1:1	0.694	0.07	18.35	19.00	1.161	0.806	22.3
Right tilted	50	QPSK 135_67	507000/2535	1:1	0.678	-0.16	18.35	19.00	1.161	0.787	22.3
Head Test data(100%RB)											
Right cheek	50	QPSK 270_0	507000/2535	1:1	0.621	0.05	18.25	19.00	1.189	0.738	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	50	QPSK 1_1	507000/2535	1:1	0.496	0.07	24.83	25.50	1.167	0.579	22.3
Back side	50	QPSK 1_1	507000/2535	1:1	0.749	-0.14	24.83	25.50	1.167	0.874	22.3
Body worn Test data (Separate 15mm 50%RB)											
Front side	50	QPSK 135_67	507000/2535	1:1	0.501	0.11	24.76	25.50	1.186	0.594	22.3
Back side	50	QPSK 135_67	507000/2535	1:1	0.676	-0.15	24.76	25.50	1.186	0.802	22.3
Body worn Test data (Separate 15mm 100%RB)											
Back side	50	QPSK 270_0	507000/2535	1:1	0.554	0.05	23.62	24.50	1.225	0.678	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	50	QPSK 1_1	507000/2535	1:1	0.169	-0.02	18.44	19.00	1.138	0.192	22.3
Back side	50	QPSK 1_1	507000/2535	1:1	0.284	-0.16	18.44	19.00	1.138	0.323	22.3
Left side	50	QPSK 1_1	507000/2535	1:1	0.163	-0.08	18.44	19.00	1.138	0.185	22.3
Top side	50	QPSK 1_1	507000/2535	1:1	0.348	0.06	18.44	19.00	1.138	0.396	22.3
Hotspot Test data (Separate 10mm 50%RB)											
Front side	50	QPSK 135_67	507000/2535	1:1	0.160	0.14	18.35	19.00	1.161	0.186	22.3
Back side	50	QPSK 135_67	507000/2535	1:1	0.268	0.08	18.35	19.00	1.161	0.311	22.3
Left side	50	QPSK 135_67	507000/2535	1:1	0.154	0.02	18.35	19.00	1.161	0.179	22.3
Top side	50	QPSK 135_67	507000/2535	1:1	0.338	0.03	18.35	19.00	1.161	0.393	22.3
Ant2 Test Record											
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	50	QPSK 1_1	507000/2535	1:1	0.167	0.09	18.75	19.50	1.189	0.198	22.3
Left tilted	50	QPSK 1_1	507000/2535	1:1	0.070	-0.11	18.75	19.50	1.189	0.083	22.3
Right cheek	50	QPSK 1_1	507000/2535	1:1	0.541	0.05	18.75	19.50	1.189	0.643	22.3
Right tilted	50	QPSK 1_1	507000/2535	1:1	0.155	-0.18	18.75	19.50	1.189	0.184	22.3
Head Test data(50%RB)											
Left cheek	50	QPSK 135_67	507000/2535	1:1	0.241	0.07	18.65	19.50	1.216	0.293	22.3
Left tilted	50	QPSK 135_67	507000/2535	1:1	0.100	0.16	18.65	19.50	1.216	0.122	22.3
Right cheek	50	QPSK 135_67	507000/2535	1:1	0.688	0.19	18.65	19.50	1.216	0.837	22.3
Right tilted	50	QPSK 135_67	507000/2535	1:1	0.229	0.02	18.65	19.50	1.216	0.279	22.3
Head Test data(100%RB)											
Right cheek	50	QPSK 270_0	507000/2535	1:1	0.546	0.07	18.44	19.50	1.276	0.697	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	50	QPSK 1_1	507000/2535	1:1	0.133	-0.12	18.75	19.50	1.189	0.158	22.3
Back side	50	QPSK 1_1	507000/2535	1:1	0.210	-0.05	18.75	19.50	1.189	0.250	22.3
Body worn Test data (Separate 15mm 50%RB)											



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Front side	50	QPSK 135_67	507000/2535	1:1	0.177	0.15	18.65	19.50	1.216	0.215	22.3
Back side	50	QPSK 135_67	507000/2535	1:1	0.290	-0.01	18.65	19.50	1.216	0.353	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	50	QPSK 1_1	507000/2535	1:1	0.168	-0.17	18.75	19.50	1.189	0.200	22.3
Back side	50	QPSK 1_1	507000/2535	1:1	0.270	0.07	18.75	19.50	1.189	0.321	22.3
Left side	50	QPSK 1_1	507000/2535	1:1	0.250	-0.18	18.75	19.50	1.189	0.297	22.3
Hotspot Test data (Separate 10mm 50%RB)											
Front side	50	QPSK 135_67	507000/2535	1:1	0.207	-0.18	18.65	19.50	1.216	0.252	22.3
Back side	50	QPSK 135_67	507000/2535	1:1	0.360	0.11	18.65	19.50	1.216	0.438	22.3
Left side	50	QPSK 135_67	507000/2535	1:1	0.281	0.07	18.65	19.50	1.216	0.342	22.3
Ant3 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	50	QPSK 1_1	507000/2535	1:1	0.230	0.02	24.85	25.50	1.161	0.267	22.3
Left tilted	50	QPSK 1_1	507000/2535	1:1	0.113	0.11	24.85	25.50	1.161	0.131	22.3
Right cheek	50	QPSK 1_1	507000/2535	1:1	0.150	0.05	24.85	25.50	1.161	0.174	22.3
Right tilted	50	QPSK 1_1	507000/2535	1:1	0.182	0.07	24.85	25.50	1.161	0.211	22.3
Head Test data(50%RB)											
Left cheek	50	QPSK 135_67	507000/2535	1:1	0.256	0.05	24.79	25.50	1.178	0.301	22.3
Left tilted	50	QPSK 135_67	507000/2535	1:1	0.105	0.05	24.79	25.50	1.178	0.124	22.3
Right cheek	50	QPSK 135_67	507000/2535	1:1	0.130	0.01	24.79	25.50	1.178	0.153	22.3
Right tilted	50	QPSK 135_67	507000/2535	1:1	0.171	-0.05	24.79	25.50	1.178	0.201	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	50	QPSK 1_1	507000/2535	1:1	0.159	-0.15	24.85	25.50	1.161	0.185	22.3
Back side	50	QPSK 1_1	507000/2535	1:1	0.394	0.15	24.85	25.50	1.161	0.458	22.3
Body worn Test data (Separate 15mm 50%RB)											
Front side	50	QPSK 135_67	507000/2535	1:1	0.175	0.18	24.79	25.50	1.178	0.206	22.3
Back side	50	QPSK 135_67	507000/2535	1:1	0.392	-0.16	24.79	25.50	1.178	0.462	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	50	QPSK 1_1	507000/2535	1:1	0.126	-0.02	21.51	22.00	1.119	0.141	22.3
Back side	50	QPSK 1_1	507000/2535	1:1	0.360	-0.02	21.51	22.00	1.119	0.403	22.3
Left side	50	QPSK 1_1	507000/2535	1:1	0.306	0.19	21.51	22.00	1.119	0.343	22.3
Bottom side	50	QPSK 1_1	507000/2535	1:1	0.072	0.02	21.51	22.00	1.119	0.081	22.3
Hotspot Test data (Separate 10mm 50%RB)											
Front side	50	QPSK 135_67	507000/2535	1:1	0.122	0.01	21.45	22.00	1.135	0.138	22.3
Back side	50	QPSK 135_67	507000/2535	1:1	0.365	-0.16	21.45	22.00	1.135	0.414	22.3
Left side	50	QPSK 135_67	507000/2535	1:1	0.369	0.14	21.45	22.00	1.135	0.419	22.3
Bottom side	50	QPSK 135_67	507000/2535	1:1	0.063	-0.04	21.45	22.00	1.135	0.072	22.3

Table 23: SAR of 5G NR n7 for Head and Body.



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8.2.2 SAR Result of 5G NR n38

SA N38 SAR Test Record											
Ant3 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	40	QPSK 1_1	519000/2595	1:1	0.368	0.10	24.81	25.50	1.172	0.431	22.3
Left tilted	40	QPSK 1_1	519000/2595	1:1	0.113	0.03	24.81	25.50	1.172	0.132	22.3
Right cheek	40	QPSK 1_1	519000/2595	1:1	0.243	-0.06	24.81	25.50	1.172	0.285	22.3
Right tilted	40	QPSK 1_1	519000/2595	1:1	0.211	0.11	24.81	25.50	1.172	0.247	22.3
Head Test data(50%RB)											
Left cheek	40	QPSK 50_28	519000/2595	1:1	0.379	0.15	24.75	25.50	1.189	0.450	22.3
Left tilted	40	QPSK 50_28	519000/2595	1:1	0.126	0.02	24.75	25.50	1.189	0.150	22.3
Right cheek	40	QPSK 50_28	519000/2595	1:1	0.251	0.15	24.75	25.50	1.189	0.298	22.3
Right tilted	40	QPSK 50_28	519000/2595	1:1	0.213	-0.11	24.75	25.50	1.189	0.253	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	40	QPSK 1_1	519000/2595	1:1	0.236	0.05	24.81	25.50	1.172	0.277	22.3
Back side	40	QPSK 1_1	519000/2595	1:1	0.636	0.09	24.81	25.50	1.172	0.746	22.3
Body worn Test data (Separate 15mm 50%RB)											
Front side	40	QPSK 50_28	519000/2595	1:1	0.255	0.10	24.75	25.50	1.189	0.303	22.3
Back side	40	QPSK 50_28	519000/2595	1:1	0.645	-0.11	24.75	25.50	1.189	0.767	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	40	QPSK 1_1	519000/2595	1:1	0.149	0.13	19.92	20.50	1.143	0.170	22.3
Back side	40	QPSK 1_1	519000/2595	1:1	0.432	0.14	19.92	20.50	1.143	0.494	22.3
Left side	40	QPSK 1_1	519000/2595	1:1	0.452	0.02	19.92	20.50	1.143	0.517	22.3
Bottom side	40	QPSK 1_1	519000/2595	1:1	0.101	-0.08	19.92	20.50	1.143	0.115	22.3
Hotspot Test data (Separate 10mm 50%RB)											
Front side	40	QPSK 50_28	519000/2595	1:1	0.158	-0.13	19.86	20.50	1.159	0.183	22.3
Back side	40	QPSK 50_28	519000/2595	1:1	0.441	-0.02	19.86	20.50	1.159	0.511	22.3
Left side	40	QPSK 50_28	519000/2595	1:1	0.459	-0.07	19.86	20.50	1.159	0.532	22.3
Bottom side	40	QPSK 50_28	519000/2595	1:1	0.098	0.01	19.86	20.50	1.159	0.114	22.3

Table 24: SAR of 5G NR n41 for Head and Body.



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8.2.3 SAR Result of 5G NR n41

SA N41 SAR Test Record											
Ant0 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	100	QPSK 1_1	518598/2592.99	1:1	0.140	-0.03	24.22	25.00	1.197	0.168	22.4
Left tilted	100	QPSK 1_1	518598/2592.99	1:1	0.120	0.10	24.22	25.00	1.197	0.144	22.4
Right cheek	100	QPSK 1_1	518598/2592.99	1:1	0.284	0.02	24.22	25.00	1.197	0.340	22.4
Right tilted	100	QPSK 1_1	518598/2592.99	1:1	0.107	-0.19	24.22	25.00	1.197	0.128	22.4
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	518598/2592.99	1:1	0.212	-0.05	24.17	25.00	1.211	0.257	22.4
Left tilted	100	QPSK 135_69	518598/2592.99	1:1	0.184	-0.03	24.17	25.00	1.211	0.223	22.4
Right cheek	100	QPSK 135_69	518598/2592.99	1:1	0.412	0.13	24.17	25.00	1.211	0.499	22.4
Right tilted	100	QPSK 135_69	518598/2592.99	1:1	0.153	0.10	24.17	25.00	1.211	0.185	22.4
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.459	-0.10	24.22	25.00	1.197	0.549	22.4
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.511	-0.08	24.22	25.00	1.197	0.612	22.4
Body worn Test data(Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	518598/2592.99	1:1	0.442	-0.09	24.17	25.00	1.211	0.535	22.4
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.490	-0.04	24.17	25.00	1.211	0.593	22.4
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.309	-0.03	21.30	22.00	1.175	0.363	22.4
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.327	-0.09	21.30	22.00	1.175	0.384	22.4
Left side	100	QPSK 1_1	518598/2592.99	1:1	0.052	-0.04	21.30	22.00	1.175	0.061	22.4
Right side	100	QPSK 1_1	518598/2592.99	1:1	0.192	-0.15	21.30	22.00	1.175	0.226	22.4
Bottom side	100	QPSK 1_1	518598/2592.99	1:1	0.245	0.05	21.30	22.00	1.175	0.288	22.4
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	518598/2592.99	1:1	0.301	0.01	21.29	22.00	1.178	0.354	22.4
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.321	0.01	21.29	22.00	1.178	0.378	22.4
Left side	100	QPSK 135_69	518598/2592.99	1:1	0.048	0.12	21.29	22.00	1.178	0.057	22.4
Right side	100	QPSK 135_69	518598/2592.99	1:1	0.191	-0.17	21.29	22.00	1.178	0.225	22.4
Bottom side	100	QPSK 135_69	518598/2592.99	1:1	0.264	-0.05	21.29	22.00	1.178	0.311	22.4
Ant1 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	100	QPSK 1_1	518598/2592.99	1:1	0.605	0.03	19.06	20.00	1.242	0.751	22.4
Left tilted	100	QPSK 1_1	518598/2592.99	1:1	0.676	-0.07	19.06	20.00	1.242	0.839	22.4
Right cheek	100	QPSK 1_1	518598/2592.99	1:1	0.802	-0.11	19.06	20.00	1.242	0.996	22.4
Right tilted	100	QPSK 1_1	518598/2592.99	1:1	0.805	-0.08	19.06	20.00	1.242	1.000	22.4
Head Test data(50%RB)											



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Left cheek	100	QPSK 135_69	518598/2592.99	1:1	0.629	0.15	18.99	20.00	1.262	0.794	22.4
Left tilted	100	QPSK 135_69	518598/2592.99	1:1	0.704	0.02	18.99	20.00	1.262	0.888	22.4
Right cheek	100	QPSK 135_69	518598/2592.99	1:1	0.798	0.09	18.99	20.00	1.262	1.007	22.4
Right tilted	100	QPSK 135_69	518598/2592.99	1:1	0.831	0.05	18.99	20.00	1.262	1.049	22.4
Head Test data(50%RB)											
Right cheek	100	QPSK 270_0	518598/2592.99	1:1	0.671	0.04	18.86	20.00	1.300	0.872	22.4
Right tilted	100	QPSK 270_0	518598/2592.99	1:1	0.698	0.13	18.86	20.00	1.300	0.908	22.4
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.397	0.06	24.45	25.50	1.274	0.506	22.4
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.606	-0.07	24.45	25.50	1.274	0.772	22.4
Body worn Test data (Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	518598/2592.99	1:1	0.322	0.02	24.37	25.50	1.297	0.418	22.4
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.535	0.01	24.37	25.50	1.297	0.694	22.4
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.201	0.10	19.06	20.00	1.242	0.250	22.4
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.309	-0.10	19.06	20.00	1.242	0.384	22.4
Left side	100	QPSK 1_1	518598/2592.99	1:1	0.137	-0.09	19.06	20.00	1.242	0.170	22.4
Top side	100	QPSK 1_1	518598/2592.99	1:1	0.396	0.05	19.06	20.00	1.242	0.492	22.4
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	518598/2592.99	1:1	0.168	-0.15	18.99	20.00	1.262	0.212	22.4
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.289	0.09	18.99	20.00	1.262	0.365	22.4
Left side	100	QPSK 135_69	518598/2592.99	1:1	0.124	0.05	18.99	20.00	1.262	0.156	22.4
Top side	100	QPSK 135_69	518598/2592.99	1:1	0.368	0.05	18.99	20.00	1.262	0.464	22.4
Ant2 Test Record											
Test position	BW.	Modulation	Test ch/Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	100	QPSK 1_1	518598/2592.99	1:1	0.361	-0.03	18.34	19.00	1.164	0.420	22.4
Left tilted	100	QPSK 1_1	518598/2592.99	1:1	0.137	0.12	18.34	19.00	1.164	0.159	22.4
Right cheek	100	QPSK 1_1	518598/2592.99	1:1	0.811	0.00	18.34	19.00	1.164	0.944	22.4
Right tilted	100	QPSK 1_1	518598/2592.99	1:1	0.265	0.13	18.34	19.00	1.164	0.308	22.4
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	518598/2592.99	1:1	0.376	-0.03	18.26	19.00	1.186	0.446	22.4
Left tilted	100	QPSK 135_69	518598/2592.99	1:1	0.124	-0.13	18.26	19.00	1.186	0.147	22.4
Right cheek	100	QPSK 135_69	518598/2592.99	1:1	0.852	0.04	18.26	19.00	1.186	1.010	22.4
Right cheek-repeat	100	QPSK 135_69	518598/2592.99	1:1	0.846	0.03	18.26	19.00	1.186	1.003	22.4
Right tilted	100	QPSK 135_69	518598/2592.99	1:1	0.247	0.02	18.26	19.00	1.186	0.293	22.4
Head Test data(100%RB)											
Right cheek	100	QPSK 270_0	518598/2592.99	1:1	0.801	0.08	18.01	19.00	1.256	1.006	22.4
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.156	0.03	19.84	20.50	1.164	0.182	22.4
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.232	0.04	19.84	20.50	1.164	0.270	22.4
Body worn Test data (Separate 15mm 50%RB)											



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Front side	100	QPSK 135_69	518598/2592.99	1:1	0.152	0.02	19.72	20.50	1.197	0.182	22.4
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.247	-0.02	19.72	20.50	1.197	0.296	22.4
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.242	0.02	18.34	19.00	1.164	0.282	22.4
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.378	0.07	18.34	19.00	1.164	0.440	22.4
Left side	100	QPSK 1_1	518598/2592.99	1:1	0.300	-0.16	18.34	19.00	1.164	0.349	22.4
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	518598/2592.99	1:1	0.252	0.14	18.26	19.00	1.186	0.299	22.4
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.451	-0.08	18.26	19.00	1.186	0.535	22.4
Left side	100	QPSK 135_69	518598/2592.99	1:1	0.364	0.10	18.26	19.00	1.186	0.432	22.4
Ant3 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	100	QPSK 1_1	518598/2592.99	1:1	0.200	-0.08	24.51	25.00	1.119	0.224	22.4
Left tilted	100	QPSK 1_1	518598/2592.99	1:1	0.030	-0.08	24.51	25.00	1.119	0.034	22.4
Right cheek	100	QPSK 1_1	518598/2592.99	1:1	0.123	0.05	24.51	25.00	1.119	0.138	22.4
Right tilted	100	QPSK 1_1	518598/2592.99	1:1	0.084	0.02	24.51	25.00	1.119	0.094	22.4
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	518598/2592.99	1:1	0.222	0.18	24.47	25.00	1.130	0.251	22.4
Left tilted	100	QPSK 135_69	518598/2592.99	1:1	0.065	0.17	24.47	25.00	1.130	0.073	22.4
Right cheek	100	QPSK 135_69	518598/2592.99	1:1	0.151	0.06	24.47	25.00	1.130	0.171	22.4
Right tilted	100	QPSK 135_69	518598/2592.99	1:1	0.113	0.18	24.47	25.00	1.130	0.128	22.4
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.155	0.01	24.51	25.00	1.119	0.174	22.4
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.383	0.03	24.51	25.00	1.119	0.429	22.4
Body worn Test data (Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	518598/2592.99	1:1	0.194	0.04	24.47	25.00	1.130	0.219	22.4
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.544	-0.05	24.47	25.00	1.130	0.615	22.4
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.116	0.06	20.65	21.00	1.084	0.126	22.4
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.321	0.01	20.65	21.00	1.084	0.348	22.4
Left side	100	QPSK 1_1	518598/2592.99	1:1	0.481	0.09	20.65	21.00	1.084	0.521	22.4
Bottom side	100	QPSK 1_1	518598/2592.99	1:1	0.051	-0.14	20.65	21.00	1.084	0.055	22.4
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	518598/2592.99	1:1	0.131	0.01	20.52	21.00	1.117	0.146	22.4
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.389	0.09	20.52	21.00	1.117	0.434	22.4
Left side	100	QPSK 135_69	518598/2592.99	1:1	0.640	0.03	20.52	21.00	1.117	0.715	22.4
Bottom side	100	QPSK 135_69	518598/2592.99	1:1	0.054	0.11	20.52	21.00	1.117	0.060	22.4

Table 25: SAR of 5G NR n41 for Head and Body.



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Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	518598/2592.99	0.852	0.846	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 measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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8.2.4 SAR Result of 5G NR n77

SA N77 SAR Test Record											
Ant2 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	100	QPSK 1_137	633334/3500	1:1	0.274	-0.11	16.02	17.00	1.253	0.343	22.1
Left tilted	100	QPSK 1_137	633334/3500	1:1	0.076	0.05	16.02	17.00	1.253	0.095	22.1
Right cheek	100	QPSK 1_137	633334/3500	1:1	0.661	0.16	16.02	17.00	1.253	0.828	22.1
Right tilted	100	QPSK 1_137	633334/3500	1:1	0.183	0.03	16.02	17.00	1.253	0.229	22.1
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	633334/3500	1:1	0.304	0.07	15.85	17.00	1.303	0.396	22.1
Left tilted	100	QPSK 135_69	633334/3500	1:1	0.102	0.05	15.85	17.00	1.303	0.133	22.1
Right cheek	100	QPSK 135_69	633334/3500	1:1	0.759	0.08	15.85	17.00	1.303	0.989	22.1
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.189	-0.10	15.85	17.00	1.303	0.246	22.1
Head Test data(100%RB)											
Right cheek	100	QPSK 270_0	633334/3500	1:1	0.724	0.11	15.88	17.00	1.294	0.937	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_137	633334/3500	1:1	0.139	-0.04	17.41	18.50	1.285	0.179	22.1
Back side	100	QPSK 1_137	633334/3500	1:1	0.160	0.05	17.41	18.50	1.285	0.206	22.1
Body worn Test data(Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.152	0.01	17.35	18.50	1.303	0.198	22.1
Back side	100	QPSK 135_69	633334/3500	1:1	0.180	-0.05	17.35	18.50	1.303	0.235	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_137	633334/3500	1:1	0.327	0.01	16.82	17.00	1.042	0.341	22.1
Back side	100	QPSK 1_137	633334/3500	1:1	0.376	0.08	16.82	17.00	1.042	0.392	22.1
Left side	100	QPSK 1_137	633334/3500	1:1	0.823	-0.06	16.82	17.00	1.042	0.858	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.359	0.05	16.65	17.00	1.084	0.389	22.1
Back side	100	QPSK 135_69	633334/3500	1:1	0.419	-0.07	16.65	17.00	1.084	0.454	22.1
Left side	100	QPSK 135_69	633334/3500	1:1	0.874	0.06	16.65	17.00	1.084	0.947	22.1
Left side-repeat	100	QPSK 135_69	633334/3500	1:1	0.864	0.03	16.65	17.00	1.084	0.937	22.1
Hotspot Test data (Separate 10mm 100%RB)											
Left side	100	QPSK 270_0	633334/3500	1:1	0.823	0.06	16.68	17.00	1.076	0.886	22.1
Ant4 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	100	QPSK 1_137	633334/3500	1:1	0.583	-0.05	18.92	19.50	1.143	0.666	22.1
Left tilted	100	QPSK 1_137	633334/3500	1:1	0.616	0.01	18.92	19.50	1.143	0.704	22.1
Right cheek	100	QPSK 1_137	633334/3500	1:1	0.344	0.03	18.92	19.50	1.143	0.393	22.1
Right tilted	100	QPSK 1_137	633334/3500	1:1	0.396	0.05	18.92	19.50	1.143	0.453	22.1
Head Test data(50%RB)											



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Left cheek	100	QPSK 135_69	633334/3500	1:1	0.646	0.07	18.85	19.50	1.161	0.750	22.1
Left tilted	100	QPSK 135_69	633334/3500	1:1	0.682	-0.08	18.85	19.50	1.161	0.792	22.1
Right cheek	100	QPSK 135_69	633334/3500	1:1	0.402	0.02	18.85	19.50	1.161	0.467	22.1
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.448	0.01	18.85	19.50	1.161	0.520	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_137	633334/3500	1:1	0.091	-0.06	22.31	23.00	1.172	0.107	22.1
Back side	100	QPSK 1_137	633334/3500	1:1	0.228	0.17	22.31	23.00	1.172	0.267	22.1
Body worn Test data (Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.082	-0.09	22.25	23.00	1.189	0.097	22.1
Back side	100	QPSK 135_69	633334/3500	1:1	0.229	-0.06	22.25	23.00	1.189	0.272	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_137	633334/3500	1:1	0.088	-0.04	18.92	19.50	1.143	0.101	22.1
Back side	100	QPSK 1_137	633334/3500	1:1	0.258	0.02	18.92	19.50	1.143	0.295	22.1
Right side	100	QPSK 1_137	633334/3500	1:1	0.056	0.18	18.92	19.50	1.143	0.064	22.1
Top side	100	QPSK 1_137	633334/3500	1:1	0.174	0.13	18.92	19.50	1.143	0.199	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.131	0.04	18.85	19.50	1.161	0.152	22.1
Back side	100	QPSK 135_69	633334/3500	1:1	0.386	-0.11	18.85	19.50	1.161	0.448	22.1
Right side	100	QPSK 135_69	633334/3500	1:1	0.084	0.06	18.85	19.50	1.161	0.098	22.1
Top side	100	QPSK 135_69	633334/3500	1:1	0.260	0.15	18.85	19.50	1.161	0.302	22.1
Ant5 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	100	QPSK 1_137	633334/3500	1:1	0.202	-0.06	15.53	16.50	1.250	0.253	22.1
Left tilted	100	QPSK 1_137	633334/3500	1:1	0.181	0.13	15.53	16.50	1.250	0.226	22.1
Right cheek	100	QPSK 1_137	633334/3500	1:1	0.728	0.08	15.53	16.50	1.250	0.910	22.1
Right tilted	100	QPSK 1_137	633334/3500	1:1	0.401	0.10	15.53	16.50	1.250	0.501	22.1
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	633334/3500	1:1	0.234	0.12	15.47	16.50	1.268	0.297	22.1
Left tilted	100	QPSK 135_69	633334/3500	1:1	0.223	0.01	15.47	16.50	1.268	0.283	22.1
Right cheek	100	QPSK 135_69	633334/3500	1:1	0.763	-0.01	15.47	16.50	1.268	0.967	22.1
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.441	0.00	15.47	16.50	1.268	0.559	22.1
Head Test data(50%RB)											
Right cheek	100	QPSK 270_0	633334/3500	1:1	0.711	0.16	15.29	16.50	1.321	0.939	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_137	633334/3500	1:1	0.637	0.08	24.39	25.50	1.291	0.823	22.1
Back side	100	QPSK 1_137	633334/3500	1:1	0.655	-0.09	24.39	25.50	1.291	0.846	22.1
Body worn Test data (Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.642	0.06	24.36	25.50	1.300	0.835	22.1
Back side	100	QPSK 135_69	633334/3500	1:1	0.669	0.09	24.36	25.50	1.300	0.870	22.1
Body worn Test data (Separate 15mm 100%RB)											
Front side	100	QPSK 270_0	633334/3500	1:1	0.611	0.09	23.28	24.50	1.324	0.809	22.1



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Back side	100	QPSK 270_0	633334/3500	1:1	0.635	-0.12	23.28	24.50	1.324	0.841	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_137	633334/3500	1:1	0.179	0.06	15.53	16.50	1.250	0.224	22.1
Back side	100	QPSK 1_137	633334/3500	1:1	0.236	0.11	15.53	16.50	1.250	0.295	22.1
Left side	100	QPSK 1_137	633334/3500	1:1	0.239	-0.04	15.53	16.50	1.250	0.299	22.1
Top side	100	QPSK 1_137	633334/3500	1:1	0.095	0.05	15.53	16.50	1.250	0.119	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.187	0.02	15.47	16.50	1.268	0.237	22.1
Back side	100	QPSK 135_69	633334/3500	1:1	0.233	-0.05	15.47	16.50	1.268	0.295	22.1
Left side	100	QPSK 135_69	633334/3500	1:1	0.236	0.01	15.47	16.50	1.268	0.299	22.1
Top side	100	QPSK 135_69	633334/3500	1:1	0.108	0.04	15.47	16.50	1.268	0.137	22.1
Ant6 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	100	QPSK 1_137	633334/3500	1:1	0.698	0.07	15.41	16.00	1.146	0.800	22.1
Left tilted	100	QPSK 1_137	633334/3500	1:1	0.277	-0.09	15.41	16.00	1.146	0.317	22.1
Right cheek	100	QPSK 1_137	633334/3500	1:1	0.111	-0.03	15.41	16.00	1.146	0.127	22.1
Right tilted	100	QPSK 1_137	633334/3500	1:1	0.066	0.18	15.41	16.00	1.146	0.076	22.1
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	633334/3500	1:1	0.803	0.06	15.25	16.00	1.189	0.954	22.1
Left tilted	100	QPSK 135_69	633334/3500	1:1	0.336	-0.01	15.25	16.00	1.189	0.399	22.1
Right cheek	100	QPSK 135_69	633334/3500	1:1	0.164	0.15	15.25	16.00	1.189	0.195	22.1
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.130	0.09	15.25	16.00	1.189	0.155	22.1
Head Test data(100%RB)											
Left cheek	100	QPSK 270_0	633334/3500	1:1	0.765	0.02	15.14	16.00	1.219	0.933	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_137	633334/3500	1:1	0.211	0.06	20.36	21.00	1.159	0.245	22.1
Back side	100	QPSK 1_137	633334/3500	1:1	0.218	0.11	20.36	21.00	1.159	0.253	22.1
Body worn Test data (Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.295	0.11	20.28	21.00	1.180	0.348	22.1
Back side	100	QPSK 135_69	633334/3500	1:1	0.304	-0.01	20.28	21.00	1.180	0.359	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_137	633334/3500	1:1	0.112	-0.06	15.41	16.00	1.146	0.128	22.1
Back side	100	QPSK 1_137	633334/3500	1:1	0.138	0.01	15.41	16.00	1.146	0.158	22.1
Right side	100	QPSK 1_137	633334/3500	1:1	0.194	-0.09	15.41	16.00	1.146	0.222	22.1
Top side	100	QPSK 1_137	633334/3500	1:1	0.039	0.04	15.41	16.00	1.146	0.045	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.139	0.06	15.25	16.00	1.189	0.165	22.1
Back side	100	QPSK 135_69	633334/3500	1:1	0.166	0.05	15.25	16.00	1.189	0.197	22.1
Right side	100	QPSK 135_69	633334/3500	1:1	0.233	0.06	15.25	16.00	1.189	0.277	22.1
Top side	100	QPSK 135_69	633334/3500	1:1	0.058	0.01	15.25	16.00	1.189	0.069	22.1

Table 26: SAR of 5G NR n77(3450MHz-3550MHz) for Head and Body.



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SA N77 SAR Test Record											
Ant2 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	100	QPSK 1_137	656000/3840	1:1	0.164	-0.03	15.35	16.00	1.161	0.190	22.4
Left tilted	100	QPSK 1_137	656000/3840	1:1	0.004	0.01	15.35	16.00	1.161	0.005	22.4
Right cheek	100	QPSK 1_137	656000/3840	1:1	0.277	0.09	15.35	16.00	1.161	0.322	22.4
Right tilted	100	QPSK 1_137	656000/3840	1:1	0.052	0.03	15.35	16.00	1.161	0.060	22.4
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	656000/3840	1:1	0.108	0.16	15.32	16.00	1.169	0.126	22.4
Left tilted	100	QPSK 135_69	656000/3840	1:1	0.008	0.05	15.32	16.00	1.169	0.009	22.4
Right cheek	100	QPSK 135_69	656000/3840	1:1	0.353	0.01	15.32	16.00	1.169	0.413	22.4
Right tilted	100	QPSK 135_69	656000/3840	1:1	0.064	0.01	15.32	16.00	1.169	0.075	22.4
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_137	656000/3840	1:1	0.051	0.06	16.90	17.50	1.148	0.059	22.4
Back side	100	QPSK 1_137	656000/3840	1:1	0.059	0.05	16.90	17.50	1.148	0.068	22.4
Body worn Test data(Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	656000/3840	1:1	0.063	0.10	16.88	17.50	1.153	0.073	22.4
Back side	100	QPSK 135_69	656000/3840	1:1	0.067	0.12	16.88	17.50	1.153	0.078	22.4
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_137	656000/3840	1:1	0.053	0.19	15.35	16.00	1.161	0.062	22.4
Back side	100	QPSK 1_137	656000/3840	1:1	0.073	0.05	15.35	16.00	1.161	0.085	22.4
Left side	100	QPSK 1_137	656000/3840	1:1	0.241	-0.04	15.35	16.00	1.161	0.280	22.4
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	656000/3840	1:1	0.083	-0.12	15.32	16.00	1.169	0.097	22.4
Back side	100	QPSK 135_69	656000/3840	1:1	0.113	-0.02	15.32	16.00	1.169	0.132	22.4
Left side	100	QPSK 135_69	656000/3840	1:1	0.272	-0.08	15.32	16.00	1.169	0.318	22.4
Ant4 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	100	QPSK 1_137	656000/3840	1:1	0.818	-0.08	18.94	19.00	1.014	0.829	22.4
Left tilted	100	QPSK 1_137	656000/3840	1:1	0.833	0.01	18.94	19.00	1.014	0.845	22.4
Right cheek	100	QPSK 1_137	656000/3840	1:1	0.282	0.04	18.94	19.00	1.014	0.286	22.4
Right tilted	100	QPSK 1_137	656000/3840	1:1	0.340	-0.11	18.94	19.00	1.014	0.345	22.4
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	656000/3840	1:1	0.876	0.05	18.86	19.00	1.033	0.905	22.4
Left tilted	100	QPSK 135_69	656000/3840	1:1	0.923	-0.06	18.86	19.00	1.033	0.953	22.4
Left tilted-repeat	100	QPSK 135_69	656000/3840	1:1	0.894	0.03	18.86	19.00	1.033	0.923	22.4
Right cheek	100	QPSK 135_69	656000/3840	1:1	0.318	0.15	18.86	19.00	1.033	0.328	22.4
Right tilted	100	QPSK 135_69	656000/3840	1:1	0.372	0.03	18.86	19.00	1.033	0.384	22.4



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Head Test data(100%RB)											
Left cheek	100	QPSK 270_0	656000/3840	1:1	0.821	0.01	18.66	19.00	1.081	0.888	22.4
Left tilted	100	QPSK 270_0	656000/3840	1:1	0.865	0.09	18.66	19.00	1.081	0.935	22.4
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_137	656000/3840	1:1	0.083	-0.01	22.33	22.50	1.040	0.086	22.4
Back side	100	QPSK 1_137	656000/3840	1:1	0.148	0.08	22.33	22.50	1.040	0.154	22.4
Body worn Test data (Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	656000/3840	1:1	0.111	-0.12	22.25	22.50	1.059	0.118	22.4
Back side	100	QPSK 135_69	656000/3840	1:1	0.165	0.01	22.25	22.50	1.059	0.175	22.4
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_137	656000/3840	1:1	0.107	0.02	18.94	19.00	1.014	0.108	22.4
Back side	100	QPSK 1_137	656000/3840	1:1	0.182	0.09	18.94	19.00	1.014	0.185	22.4
Right side	100	QPSK 1_137	656000/3840	1:1	0.086	-0.04	18.94	19.00	1.014	0.087	22.4
Top side	100	QPSK 1_137	656000/3840	1:1	0.156	0.12	18.94	19.00	1.014	0.158	22.4
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	656000/3840	1:1	0.147	0.01	18.86	19.00	1.033	0.152	22.4
Back side	100	QPSK 135_69	656000/3840	1:1	0.228	0.01	18.86	19.00	1.033	0.235	22.4
Right side	100	QPSK 135_69	656000/3840	1:1	0.116	0.05	18.86	19.00	1.033	0.120	22.4
Top side	100	QPSK 135_69	656000/3840	1:1	0.193	-0.03	18.86	19.00	1.033	0.199	22.4
Ant5 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	100	QPSK 1_137	656000/3840	1:1	0.188	0.09	15.61	16.50	1.227	0.231	22.4
Left tilted	100	QPSK 1_137	656000/3840	1:1	0.150	0.04	15.61	16.50	1.227	0.184	22.4
Right cheek	100	QPSK 1_137	656000/3840	1:1	0.592	0.03	15.61	16.50	1.227	0.727	22.4
Right tilted	100	QPSK 1_137	656000/3840	1:1	0.328	0.04	15.61	16.50	1.227	0.403	22.4
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	656000/3840	1:1	0.212	-0.04	15.60	16.50	1.230	0.261	22.4
Left tilted	100	QPSK 135_69	656000/3840	1:1	0.176	0.16	15.60	16.50	1.230	0.217	22.4
Right cheek	100	QPSK 135_69	656000/3840	1:1	0.620	0.08	15.60	16.50	1.230	0.763	22.4
Right tilted	100	QPSK 135_69	656000/3840	1:1	0.370	0.05	15.60	16.50	1.230	0.455	22.4
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_137	656000/3840	1:1	0.344	0.16	24.48	25.50	1.265	0.435	22.4
Back side	100	QPSK 1_137	656000/3840	1:1	0.352	0.08	24.48	25.50	1.265	0.445	22.4
Body worn Test data (Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	656000/3840	1:1	0.382	0.07	24.47	25.50	1.268	0.484	22.4
Back side	100	QPSK 135_69	656000/3840	1:1	0.400	-0.08	24.47	25.50	1.268	0.507	22.4
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_137	656000/3840	1:1	0.084	-0.06	15.61	16.50	1.227	0.103	22.4
Back side	100	QPSK 1_137	656000/3840	1:1	0.112	0.01	15.61	16.50	1.227	0.137	22.4
Left side	100	QPSK 1_137	656000/3840	1:1	0.083	0.07	15.61	16.50	1.227	0.102	22.4
Top side	100	QPSK 1_137	656000/3840	1:1	0.066	0.03	15.61	16.50	1.227	0.081	22.4



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Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	656000/3840	1:1	0.118	0.02	15.60	16.50	1.230	0.145	22.4
Back side	100	QPSK 135_69	656000/3840	1:1	0.132	-0.05	15.60	16.50	1.230	0.162	22.4
Left side	100	QPSK 135_69	656000/3840	1:1	0.118	0.11	15.60	16.50	1.230	0.145	22.4
Top side	100	QPSK 135_69	656000/3840	1:1	0.102	0.04	15.60	16.50	1.230	0.125	22.4
Ant6 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	100	QPSK 1_137	656000/3840	1:1	0.598	-0.16	14.31	14.50	1.045	0.625	22.4
Left tilted	100	QPSK 1_137	656000/3840	1:1	0.255	0.06	14.31	14.50	1.045	0.266	22.4
Right cheek	100	QPSK 1_137	656000/3840	1:1	0.133	0.14	14.31	14.50	1.045	0.139	22.4
Right tilted	100	QPSK 1_137	656000/3840	1:1	0.103	0.02	14.31	14.50	1.045	0.108	22.4
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	656000/3840	1:1	0.628	0.09	14.24	14.50	1.062	0.667	22.4
Left tilted	100	QPSK 135_69	656000/3840	1:1	0.309	0.06	14.24	14.50	1.062	0.328	22.4
Right cheek	100	QPSK 135_69	656000/3840	1:1	0.140	0.03	14.24	14.50	1.062	0.149	22.4
Right tilted	100	QPSK 135_69	656000/3840	1:1	0.116	0.07	14.24	14.50	1.062	0.123	22.4
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_137	656000/3840	1:1	0.181	0.06	19.33	19.50	1.040	0.188	22.4
Back side	100	QPSK 1_137	656000/3840	1:1	0.225	0.08	19.33	19.50	1.040	0.234	22.4
Body worn Test data (Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	656000/3840	1:1	0.196	0.11	19.32	19.50	1.042	0.204	22.4
Back side	100	QPSK 135_69	656000/3840	1:1	0.246	-0.02	19.32	19.50	1.042	0.256	22.4
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_137	656000/3840	1:1	0.076	0.06	14.31	14.50	1.045	0.079	22.4
Back side	100	QPSK 1_137	656000/3840	1:1	0.148	0.01	14.31	14.50	1.045	0.155	22.4
Right side	100	QPSK 1_137	656000/3840	1:1	0.135	0.15	14.31	14.50	1.045	0.141	22.4
Top side	100	QPSK 1_137	656000/3840	1:1	0.028	0.01	14.31	14.50	1.045	0.029	22.4
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	656000/3840	1:1	0.091	0.09	14.24	14.50	1.062	0.097	22.4
Back side	100	QPSK 135_69	656000/3840	1:1	0.162	-0.06	14.24	14.50	1.062	0.172	22.4
Right side	100	QPSK 135_69	656000/3840	1:1	0.150	0.04	14.24	14.50	1.062	0.159	22.4
Top side	100	QPSK 135_69	656000/3840	1:1	0.043	-0.04	14.24	14.50	1.062	0.046	22.4



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Table 27: SAR of 5G NR n77(3700MHz -3980MHz) for Head and Body.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Left side	633334/3500	0.874	0.864	1.012	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 measurements 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

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Left tilted	656000/3840	0.923	0.894	1.032	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 measurements 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



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8.2.5 SAR Result of 5G NR n78

SA N78 SAR Test Record											
Ant2 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	100	QPSK 1_1	633334/3500	1:1	0.153	0.19	12.43	13.00	1.140	0.174	22.2
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.045	-0.12	12.43	13.00	1.140	0.051	22.2
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.597	0.01	12.43	13.00	1.140	0.681	22.2
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.113	-0.11	12.43	13.00	1.140	0.129	22.2
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	633334/3500	1:1	0.237	0.11	12.39	13.00	1.151	0.273	22.2
Left tilted	100	QPSK 135_69	633334/3500	1:1	0.069	-0.13	12.39	13.00	1.151	0.079	22.2
Right cheek	100	QPSK 135_69	633334/3500	1:1	0.923	-0.01	12.39	13.00	1.151	1.062	22.2
Right cheek-repeat	100	QPSK 135_69	633334/3500	1:1	0.895	0.03	12.39	13.00	1.151	1.030	22.2
Right cheek for ENDC	100	QPSK 135_69	633334/3500	1:1	0.923	-0.01	12.39	10.00	0.577	0.532	22.2
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.175	0.14	12.39	13.00	1.151	0.201	22.2
Head Test data(100%RB)											
Right cheek	100	QPSK 270_0	633334/3500	1:1	0.631	0.02	12.25	13.00	1.189	0.750	22.2
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.099	-0.05	14.01	14.50	1.119	0.111	22.2
Back side	100	QPSK 1_1	633334/3500	1:1	0.179	0.10	14.01	14.50	1.119	0.200	22.2
Body worn Test data(Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.150	0.11	13.76	14.50	1.186	0.178	22.2
Back side	100	QPSK 135_69	633334/3500	1:1	0.272	-0.03	13.76	14.50	1.186	0.323	22.2
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.117	0.08	12.43	13.00	1.140	0.133	22.2
Back side	100	QPSK 1_1	633334/3500	1:1	0.222	0.10	12.43	13.00	1.140	0.253	22.2
Left side	100	QPSK 1_1	633334/3500	1:1	0.453	0.04	12.43	13.00	1.140	0.517	22.2
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.176	-0.12	12.39	13.00	1.151	0.203	22.2
Back side	100	QPSK 135_69	633334/3500	1:1	0.336	0.10	12.39	13.00	1.151	0.387	22.2
Left side	100	QPSK 135_69	633334/3500	1:1	0.685	0.09	12.39	13.00	1.151	0.788	22.2
Left side for ENDC	100	QPSK 135_69	633334/3500	1:1	0.685	0.09	12.39	10.00	0.577	0.395	22.2
Ant4 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	100	QPSK 1_1	633334/3500	1:1	0.769	0.07	16.87	17.00	1.030	0.792	22.2
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.788	0.10	16.87	17.00	1.030	0.812	22.2
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.493	-0.07	16.87	17.00	1.030	0.508	22.2
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.607	0.01	16.87	17.00	1.030	0.625	22.2



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Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	633334/3500	1:1	0.803	0.07	16.67	17.00	1.079	0.866	22.2
Left tilted	100	QPSK 135_69	633334/3500	1:1	0.823	0.12	16.67	17.00	1.079	0.888	22.2
Left tilted for ENDC	100	QPSK 135_69	633334/3500	1:1	0.823	0.12	16.67	14.50	0.607	0.499	22.2
Right cheek	100	QPSK 135_69	633334/3500	1:1	0.515	-0.07	16.67	17.00	1.079	0.556	22.2
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.635	0.14	16.67	17.00	1.079	0.685	22.2
Head Test data(100%RB)											
Left cheek	100	QPSK 270_0	633334/3500	1:1	0.731	-0.02	16.48	17.00	1.127	0.824	22.2
Left tilted	100	QPSK 270_0	633334/3500	1:1	0.781	-0.06	16.48	17.00	1.127	0.880	22.2
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.315	0.19	21.02	21.50	1.117	0.352	22.2
Back side	100	QPSK 1_1	633334/3500	1:1	0.610	-0.08	21.02	21.50	1.117	0.681	22.2
Body worn Test data (Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.345	0.08	21.00	21.50	1.122	0.387	22.2
Back side	100	QPSK 135_69	633334/3500	1:1	0.669	-0.03	21.00	21.50	1.122	0.751	22.2
Back side for ENDC	100	QPSK 135_69	633334/3500	1:1	0.669	-0.03	21.00	17.00	0.398	0.266	22.2
Back side-PC2	100	QPSK 135_69	633334/3500	1:2	0.565	-0.05	23.69	24.50	1.205	0.681	22.2
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.064	0.12	16.87	17.00	1.030	0.066	22.2
Back side	100	QPSK 1_1	633334/3500	1:1	0.173	-0.03	16.87	17.00	1.030	0.178	22.2
Right side	100	QPSK 1_1	633334/3500	1:1	0.042	-0.03	16.87	17.00	1.030	0.043	22.2
Top side	100	QPSK 1_1	633334/3500	1:1	0.120	0.15	16.87	17.00	1.030	0.124	22.2
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.069	0.02	16.67	17.00	1.079	0.074	22.2
Back side	100	QPSK 135_69	633334/3500	1:1	0.189	-0.05	16.67	17.00	1.079	0.204	22.2
Back side for ENDC	100	QPSK 135_69	633334/3500	1:1	0.189	-0.05	16.67	14.50	0.607	0.115	22.2
Right side	100	QPSK 135_69	633334/3500	1:1	0.046	-0.10	16.67	17.00	1.079	0.050	22.2
Top side	100	QPSK 135_69	633334/3500	1:1	0.131	0.05	16.67	17.00	1.079	0.141	22.2
Ant5 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	100	QPSK 1_1	633334/3500	1:1	0.199	0.13	15.47	16.50	1.268	0.252	22.2
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.167	0.09	15.47	16.50	1.268	0.212	22.2
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.613	0.05	15.47	16.50	1.268	0.777	22.2
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.354	0.18	15.47	16.50	1.268	0.449	22.2
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	633334/3500	1:1	0.236	0.18	15.41	16.50	1.285	0.303	22.2
Left tilted	100	QPSK 135_69	633334/3500	1:1	0.197	0.02	15.41	16.50	1.285	0.253	22.2
Right cheek	100	QPSK 135_69	633334/3500	1:1	0.726	0.07	15.41	16.50	1.285	0.933	22.2
Right cheek for ENDC	100	QPSK 135_69	633334/3500	1:1	0.726	0.07	15.41	14.00	0.723	0.525	22.2
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.419	0.08	15.41	16.50	1.285	0.539	22.2
Head Test data(100%RB)											



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Right cheek	100	QPSK 270_0	633334/3500	1:1	0.635	-0.04	15.38	16.50	1.294	0.822	22.2
Body worn Test data (Separate 15mm 50%RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.647	0.05	23.33	24.00	1.167	0.755	22.2
Back side	100	QPSK 1_1	633334/3500	1:1	0.794	-0.04	23.33	24.00	1.167	0.926	22.2
Body worn Test data (Separate 15mm 100%RB)											
Back side	100	QPSK 270_0	633334/3500	1:1	0.723	-0.11	22.17	23.00	1.211	0.875	22.2
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.277	0.12	15.47	16.50	1.268	0.351	22.2
Back side	100	QPSK 1_1	633334/3500	1:1	0.342	-0.13	15.47	16.50	1.268	0.434	22.2
Left side	100	QPSK 1_1	633334/3500	1:1	0.328	0.09	15.47	16.50	1.268	0.416	22.2
Top side	100	QPSK 1_1	633334/3500	1:1	0.163	0.05	15.47	16.50	1.268	0.207	22.2
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.317	0.07	15.41	16.50	1.285	0.407	22.2
Back side	100	QPSK 135_69	633334/3500	1:1	0.391	-0.09	15.41	16.50	1.285	0.503	22.2
Back side for ENDC	100	QPSK 135_69	633334/3500	1:1	0.391	-0.09	15.41	14.00	0.723	0.283	22.2
Left side	100	QPSK 135_69	633334/3500	1:1	0.374	-0.04	15.41	16.50	1.285	0.481	22.2
Top side	100	QPSK 135_69	633334/3500	1:1	0.186	0.06	15.41	16.50	1.285	0.239	22.2
Ant6 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	100	QPSK 1_1	633334/3500	1:1	0.740	0.13	11.78	12.50	1.180	0.873	22.2
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.317	0.04	11.78	12.50	1.180	0.374	22.2
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.165	0.12	11.78	12.50	1.180	0.195	22.2
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.143	0.01	11.78	12.50	1.180	0.169	22.2
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	633334/3500	1:1	0.784	-0.09	11.77	12.50	1.183	0.928	22.2
Left cheek for ENDC	100	QPSK 135_69	633334/3500	1:1	0.784	-0.09	11.77	9.50	0.593	0.465	22.2
Left tilted	100	QPSK 135_69	633334/3500	1:1	0.336	0.08	11.77	12.50	1.183	0.398	22.2
Right cheek	100	QPSK 135_69	633334/3500	1:1	0.174	0.09	11.77	12.50	1.183	0.206	22.2
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.152	0.02	11.77	12.50	1.183	0.180	22.2
Head Test data(50%RB)											
Left cheek	100	QPSK 270_0	633334/3500	1:1	0.735	0.02	11.55	12.50	1.245	0.915	22.2
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.396	-0.05	19.65	20.00	1.084	0.429	22.2
Back side	100	QPSK 1_1	633334/3500	1:1	0.501	0.15	19.65	20.00	1.084	0.543	22.2
Body worn Test data (Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.419	0.07	19.29	20.00	1.178	0.493	22.2



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Back side	100	QPSK 135_69	633334/3500	1:1	0.523	-0.01	19.29	20.00	1.178	0.616	22.2
Back side for ENDC	100	QPSK 135_69	633334/3500	1:1	0.523	-0.01	19.29	16.50	0.526	0.275	22.2
Back side PC2	100	QPSK 135_69	633334/3500	1:2	0.471	-0.05	22.13	23.00	1.222	0.575	22.2
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.180	-0.13	11.78	12.50	1.180	0.212	22.2
Back side	100	QPSK 1_1	633334/3500	1:1	0.212	-0.11	11.78	12.50	1.180	0.250	22.2
Right side	100	QPSK 1_1	633334/3500	1:1	0.232	-0.04	11.78	12.50	1.180	0.274	22.2
Top side	100	QPSK 1_1	633334/3500	1:1	0.061	-0.13	11.78	12.50	1.180	0.072	22.2
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.188	0.02	11.77	12.50	1.183	0.222	22.2
Back side	100	QPSK 135_69	633334/3500	1:1	0.221	-0.08	11.77	12.50	1.183	0.261	22.2
Right side	100	QPSK 135_69	633334/3500	1:1	0.242	-0.09	11.77	12.50	1.183	0.286	22.2
Right side for ENDC	100	QPSK 135_69	633334/3500	1:1	0.242	-0.09	11.77	9.50	0.593	0.143	22.2
Top side	100	QPSK 135_69	633334/3500	1:1	0.064	0.11	11.77	12.50	1.183	0.076	22.2

Table 28: SAR of 5G NR n77(3450MHz -3550MHz) for Head and Body.

SA N78 SAR Test Record											
Ant2 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	100	QPSK 1_1	650000/3750	1:1	0.133	-0.01	12.49	13.00	1.125	0.150	22.1
Left tilted	100	QPSK 1_1	650000/3750	1:1	0.039	0.01	12.49	13.00	1.125	0.044	22.1
Right cheek	100	QPSK 1_1	650000/3750	1:1	0.389	0.03	12.49	13.00	1.125	0.437	22.1
Right tilted	100	QPSK 1_1	650000/3750	1:1	0.090	0.09	12.49	13.00	1.125	0.101	22.1
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	650000/3750	1:1	0.155	-0.07	12.57	13.00	1.104	0.171	22.1
Left tilted	100	QPSK 135_69	650000/3750	1:1	0.055	0.09	12.57	13.00	1.104	0.061	22.1
Right cheek	100	QPSK 135_69	650000/3750	1:1	0.406	0.05	12.57	13.00	1.104	0.448	22.1
Right cheek for ENDC	100	QPSK 135_69	650000/3750	1:1	0.406	0.05	12.57	10.00	0.553	0.225	22.1
Right tilted	100	QPSK 135_69	650000/3750	1:1	0.113	-0.13	12.57	13.00	1.104	0.125	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	650000/3750	1:1	0.105	0.05	14.15	14.50	1.084	0.114	22.1
Back side	100	QPSK 1_1	650000/3750	1:1	0.155	-0.12	14.15	14.50	1.084	0.168	22.1
Body worn Test data(Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	650000/3750	1:1	0.110	0.01	14.11	14.50	1.094	0.120	22.1
Back side	100	QPSK 135_69	650000/3750	1:1	0.167	-0.07	14.11	14.50	1.094	0.183	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	650000/3750	1:1	0.197	0.08	12.49	13.00	1.125	0.222	22.1
Back side	100	QPSK 1_1	650000/3750	1:1	0.305	0.11	12.49	13.00	1.125	0.343	22.1
Left side	100	QPSK 1_1	650000/3750	1:1	0.513	0.05	12.49	13.00	1.125	0.577	22.1
Left side for ENDC	100	QPSK 1_1	650000/3750	1:1	0.513	-0.04	12.49	10.00	0.564	0.289	22.1
Hotspot Test data (Separate 10mm 50%RB)											



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Front side	100	QPSK 135_69	650000/3750	1:1	0.146	0.06	12.57	13.00	1.104	0.161	22.1
Back side	100	QPSK 135_69	650000/3750	1:1	0.220	-0.05	12.57	13.00	1.104	0.243	22.1
Left side	100	QPSK 135_69	650000/3750	1:1	0.408	0.13	12.57	13.00	1.104	0.450	22.1
Ant4 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	100	QPSK 1_1	650000/3750	1:1	0.665	-0.01	16.73	17.00	1.064	0.708	22.1
Left tilted	100	QPSK 1_1	650000/3750	1:1	0.740	0.05	16.73	17.00	1.064	0.787	22.1
Right cheek	100	QPSK 1_1	650000/3750	1:1	0.428	0.01	16.73	17.00	1.064	0.455	22.1
Right tilted	100	QPSK 1_1	650000/3750	1:1	0.550	0.06	16.73	17.00	1.064	0.585	22.1
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	650000/3750	1:1	0.739	0.10	16.67	17.00	1.079	0.797	22.1
Left tilted	100	QPSK 135_69	650000/3750	1:1	0.801	0.04	16.67	17.00	1.079	0.864	22.1
Left tilted-repeat	100	QPSK 135_69	650000/3750	1:1	0.801	0.04	16.67	17.00	1.079	0.864	22.1
Left tilted for ENDC	100	QPSK 135_69	650000/3750	1:1	0.794	-0.06	16.67	14.50	0.607	0.482	22.1
Right cheek	100	QPSK 135_69	650000/3750	1:1	0.504	-0.08	16.67	17.00	1.079	0.544	22.1
Right tilted	100	QPSK 135_69	650000/3750	1:1	0.618	0.01	16.67	17.00	1.079	0.667	22.1
Head Test data(50%RB)											
Left tilted	100	QPSK 270_0	650000/3750	1:1	0.736	0.05	16.27	17.00	1.183	0.871	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	650000/3750	1:1	0.097	0.01	20.87	21.50	1.156	0.112	22.1
Back side	100	QPSK 1_1	650000/3750	1:1	0.213	-0.01	20.87	21.50	1.156	0.246	22.1
Body worn Test data (Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	650000/3750	1:1	0.110	-0.11	20.82	21.50	1.169	0.129	22.1
Back side	100	QPSK 135_69	650000/3750	1:1	0.512	0.03	20.82	21.50	1.169	0.599	22.1
Back side for ENDC	100	QPSK 135_69	650000/3750	1:1	0.512	0.03	20.82	20.00	0.828	0.424	22.1
Back side PC2	100	QPSK 135_69	650000/3750	1:2	0.455	-0.05	23.68	24.50	1.208	0.550	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	650000/3750	1:1	0.137	-0.11	16.73	17.00	1.064	0.146	22.1
Back side	100	QPSK 1_1	650000/3750	1:1	0.263	-0.04	16.73	17.00	1.064	0.280	22.1
Right side	100	QPSK 1_1	650000/3750	1:1	0.119	-0.11	16.73	17.00	1.064	0.127	22.1
Top side	100	QPSK 1_1	650000/3750	1:1	0.240	-0.08	16.73	17.00	1.064	0.255	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	650000/3750	1:1	0.140	0.08	16.67	17.00	1.079	0.151	22.1
Back side	100	QPSK 135_69	650000/3750	1:1	0.269	-0.04	16.67	17.00	1.079	0.290	22.1
Back side for ENDC	100	QPSK 135_69	650000/3750	1:1	0.269	-0.04	16.67	14.50	0.607	0.163	22.1
Right side	100	QPSK 135_69	650000/3750	1:1	0.122	0.02	16.67	17.00	1.079	0.132	22.1
Top side	100	QPSK 135_69	650000/3750	1:1	0.241	0.05	16.67	17.00	1.079	0.260	22.1
Ant5 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											



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Left cheek	100	QPSK 1_1	650000/3750	1:1	0.152	-0.11	15.46	16.50	1.271	0.193	22.1
Left tilted	100	QPSK 1_1	650000/3750	1:1	0.139	-0.13	15.46	16.50	1.271	0.177	22.1
Right cheek	100	QPSK 1_1	650000/3750	1:1	0.485	-0.08	15.46	16.50	1.271	0.616	22.1
Right tilted	100	QPSK 1_1	650000/3750	1:1	0.287	0.02	15.46	16.50	1.271	0.365	22.1
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	650000/3750	1:1	0.198	-0.06	15.40	16.50	1.288	0.255	22.1
Left tilted	100	QPSK 135_69	650000/3750	1:1	0.181	0.03	15.40	16.50	1.288	0.233	22.1
Right cheek	100	QPSK 135_69	650000/3750	1:1	0.632	-0.02	15.40	16.50	1.288	0.814	22.1
Right cheek for ENDC	100	QPSK 135_69	650000/3750	1:1	0.632	-0.02	15.40	14.00	0.724	0.458	22.1
Right tilted	100	QPSK 135_69	650000/3750	1:1	0.374	0.08	15.40	16.50	1.288	0.482	22.1
Head Test data(50%RB)											
Right cheek	100	QPSK 270_0	650000/3750	1:1	0.563	0.02	15.40	16.50	1.288	0.725	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	650000/3750	1:1	0.362	0.02	22.95	24.00	1.274	0.461	22.1
Back side	100	QPSK 1_1	650000/3750	1:1	0.374	0.08	22.95	24.00	1.274	0.476	22.1
Body worn Test data (Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	650000/3750	1:1	0.430	-0.06	22.88	24.00	1.294	0.557	22.1
Back side	100	QPSK 135_69	650000/3750	1:1	0.444	0.03	22.88	24.00	1.294	0.575	22.1
Back side for ENDC	100	QPSK 135_69	650000/3750	1:1	0.444	-0.08	22.88	21.50	0.728	0.323	22.1
Back side PC2	100	QPSK 135_69	650000/3750	1:1	0.418	0.02	25.88	27.00	1.294	0.541	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	650000/3750	1:1	0.294	0.04	15.46	16.50	1.271	0.374	22.1
Back side	100	QPSK 1_1	650000/3750	1:1	0.355	0.12	15.46	16.50	1.271	0.451	22.1
Left side	100	QPSK 1_1	650000/3750	1:1	0.303	-0.13	15.46	16.50	1.271	0.385	22.1
Top side	100	QPSK 1_1	650000/3750	1:1	0.277	-0.10	15.46	16.50	1.271	0.352	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	650000/3750	1:1	0.240	0.05	15.40	16.50	1.288	0.309	22.1
Back side	100	QPSK 135_69	650000/3750	1:1	0.304	0.06	15.40	16.50	1.288	0.392	22.1
Left side	100	QPSK 135_69	650000/3750	1:1	0.253	-0.10	15.40	16.50	1.288	0.326	22.1
Top side	100	QPSK 135_69	650000/3750	1:1	0.233	-0.08	15.40	16.50	1.288	0.300	22.1
Ant6 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	100	QPSK 1_1	650000/3750	1:1	0.567	0.01	11.51	12.50	1.256	0.712	22.1
Left tilted	100	QPSK 1_1	650000/3750	1:1	0.269	0.06	11.51	12.50	1.256	0.338	22.1
Right cheek	100	QPSK 1_1	650000/3750	1:1	0.135	0.12	11.51	12.50	1.256	0.170	22.1
Right tilted	100	QPSK 1_1	650000/3750	1:1	0.106	0.01	11.51	12.50	1.256	0.133	22.1
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	650000/3750	1:1	0.690	0.16	11.43	12.50	1.279	0.883	22.1
Left cheek for ENDC	100	QPSK 135_69	650000/3750	1:1	0.690	0.16	11.43	9.50	0.641	0.442	22.1
Left tilted	100	QPSK 135_69	650000/3750	1:1	0.328	0.09	11.43	12.50	1.279	0.420	22.1
Right cheek	100	QPSK 135_69	650000/3750	1:1	0.164	0.05	11.43	12.50	1.279	0.210	22.1



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Right tilted	100	QPSK 135_69	650000/3750	1:1	0.129	-0.03	11.43	12.50	1.279	0.165	22.1
Head Test data(50%RB)											
Left cheek	100	QPSK 270_0	650000/3750	1:1	0.571	0.03	11.43	12.50	1.279	0.731	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	650000/3750	1:1	0.260	0.13	19.02	20.00	1.253	0.326	22.1
Back side	100	QPSK 1_1	650000/3750	1:1	0.354	0.09	19.02	20.00	1.253	0.444	22.1
Body worn Test data (Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	650000/3750	1:1	0.326	-0.13	18.73	20.00	1.340	0.437	22.1
Back side	100	QPSK 135_69	650000/3750	1:1	0.443	-0.05	18.73	20.00	1.340	0.593	22.1
Back side for ENDC	100	QPSK 135_69	650000/3750	1:1	0.443	-0.02	18.73	16.50	0.598	0.265	22.1
Back side PC2	100	QPSK 135_69	650000/3750	1:1	0.375	-0.11	21.27	23.00	1.489	0.559	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	650000/3750	1:1	0.122	-0.06	11.51	12.50	1.256	0.153	22.1
Back side	100	QPSK 1_1	650000/3750	1:1	0.213	0.04	11.51	12.50	1.256	0.268	22.1
Right side	100	QPSK 1_1	650000/3750	1:1	0.173	0.13	11.51	12.50	1.256	0.217	22.1
Top side	100	QPSK 1_1	650000/3750	1:1	0.059	0.08	11.51	12.50	1.256	0.074	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	650000/3750	1:1	0.153	-0.07	11.43	12.50	1.279	0.196	22.1
Back side	100	QPSK 135_69	650000/3750	1:1	0.267	-0.09	11.43	12.50	1.279	0.342	22.1
Back side for ENDC	100	QPSK 135_69	650000/3750	1:1	0.267	-0.07	11.43	9.50	0.641	0.171	22.1
Right side	100	QPSK 135_69	650000/3750	1:1	0.216	-0.04	11.43	12.50	1.279	0.276	22.1
Top side	100	QPSK 135_69	650000/3750	1:1	0.074	0.11	11.43	12.50	1.279	0.095	22.1

Table 29: SAR of 5G NR n77(3700MHz -3800MHz) for Head and Body.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	633334/3500	0.923	0.895	1.031	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 measurements 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

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Left tilted	650000/3750	0.801	0.8	1.001	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 measurements 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



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8.2.6 SAR Result of WIFI 2.4G

Wi-Fi 2.4G SAR Test Record											
MIMO Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data											
Left cheek	802.11b	11/2462	97.06%	1.030	0.401	-0.13	18.02	19.50	1.407	0.581	22.3
Left cheek Simultaneous	802.11b	11/2462	97.06%	1.030	0.401	-0.13	18.02	18.50	1.117	0.462	22.3
Left tilted	802.11b	11/2462	97.06%	1.030	0.292	0.05	18.02	19.50	1.407	0.423	22.3
Right cheek	802.11b	11/2462	97.06%	1.030	0.100	0.03	18.02	19.50	1.407	0.145	22.3
Right tilted	802.11b	11/2462	97.06%	1.030	0.098	0.06	18.02	19.50	1.407	0.143	22.3
Body worn Test data(Separate 15mm)											
Front side	802.11b	11/2462	97.06%	1.030	0.141	0.01	19.64	21.00	1.368	0.199	22.3
Back side	802.11b	11/2462	97.06%	1.030	0.251	-0.16	19.64	21.00	1.368	0.354	22.3
Hotspot Test data (Separate 10mm)											
Front side	802.11b	11/2462	97.06%	1.030	0.211	0.06	19.64	21.00	1.368	0.297	22.3
Back side	802.11b	11/2462	97.06%	1.030	0.464	-0.02	19.64	21.00	1.368	0.654	22.3
Back side Simultaneous	802.11b	11/2462	97.06%	1.030	0.464	-0.02	19.64	19.50	0.969	0.463	22.3
Right side	802.11b	11/2462	97.06%	1.030	0.410	-0.11	19.64	21.00	1.368	0.578	22.3
Top side	802.11b	11/2462	97.06%	1.030	0.163	0.07	19.64	21.00	1.368	0.230	22.3

Table 30: SAR of WIFI 2.4G for Head and Body.

Note:

As the 802.11b highest reported SAR is smaller than 1.2 W/kg , and the tune-up of the other 802.11 modes are not higher than 802.11b,therefore the adjusted SAR is ≤ 1.2 W/kg for other 802.11 modes, SAR test for the other 802.11 modes are not required.



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8.2.1 SAR Result of WIFI 5G

Wi-Fi 5G SAR Test Record											
MIMO Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data of U-NII-2A											
Left cheek	802.11ac 80M	58/5290	99.82%	1.002	0.291	0.01	12.61	13.50	1.226	0.357	22.3
Left tilted	802.11ac 80M	58/5290	99.82%	1.002	0.320	-0.01	12.61	13.50	1.226	0.393	22.3
Left tilted Simultaneous	802.11ac 80M	58/5290	99.82%	1.002	0.320	-0.01	12.61	11.50	0.774	0.248	22.3
Right cheek	802.11ac 80M	58/5290	99.82%	1.002	0.166	0.09	12.61	13.50	1.226	0.204	22.3
Right tilted	802.11ac 80M	58/5290	99.82%	1.002	0.309	0.13	12.61	13.50	1.226	0.380	22.3
Head Test data of U-NII-2C											
Left cheek	802.11ac 80M	122/5610	99.82%	1.002	0.574	0.16	13.25	14.50	1.334	0.767	22.4
Left cheek Simultaneous	802.11ac 80M	122/5610	99.82%	1.002	0.574	0.16	13.25	9.50	0.422	0.243	22.4
Left tilted	802.11ac 80M	122/5610	99.82%	1.002	0.551	-0.07	13.25	14.50	1.334	0.736	22.4
Right cheek	802.11ac 80M	122/5610	99.82%	1.002	0.425	-0.02	13.25	14.50	1.334	0.568	22.4
Right tilted	802.11ac 80M	122/5610	99.82%	1.002	0.522	0.04	13.25	14.50	1.334	0.697	22.4
Head Test data of U-NII-3											
Left cheek	802.11a	157/5785	99.53%	1.005	0.514	0.04	17.26	18.50	1.331	0.687	22.2
Left tilted	802.11a	157/5785	99.53%	1.005	0.536	0.09	17.26	18.50	1.331	0.717	22.2
Left tilted Simultaneous	802.11a	157/5785	99.53%	1.005	0.536	0.09	17.26	13.50	0.421	0.227	22.2
Right cheek	802.11a	157/5785	99.53%	1.005	0.445	0.03	17.26	18.50	1.331	0.595	22.2
Right tilted	802.11a	157/5785	99.53%	1.005	0.533	0.03	17.26	18.50	1.331	0.713	22.2
Body worn Test data of U-NII-2A (Separate 15mm)											
Front side	802.11a	60/5300	99.53%	1.005	0.076	0.05	16.58	17.50	1.236	0.094	22.3
Back side	802.11a	60/5300	99.53%	1.005	0.527	-0.01	16.58	17.50	1.236	0.655	22.3
Back side Simultaneous	802.11a	60/5300	99.53%	1.005	0.527	-0.01	16.58	13.00	0.439	0.232	22.3
Body worn Test data of U-NII-2C(Separate 15mm)											
Front side	802.11a	100/5500	99.53%	1.005	0.044	0.02	16.00	17.50	1.412	0.062	22.4
Back side	802.11a	100/5500	99.53%	1.005	0.233	-0.09	16.00	17.50	1.412	0.331	22.4
Back side Simultaneous	802.11a	100/5500	99.53%	1.005	0.233	-0.09	16.00	16.00	1.000	0.234	22.4
Body worn Test data of U-NII-3(Separate 15mm)											
Front side	802.11a	157/5785	99.53%	1.005	0.121	0.16	18.49	20.00	1.415	0.172	22.2
Back side	802.11a	157/5785	99.53%	1.005	0.327	-0.06	18.49	20.00	1.415	0.465	22.2
Back side Simultaneous	802.11a	157/5785	99.53%	1.005	0.327	-0.06	18.49	17.00	0.709	0.233	22.2
Hotspot Test data of U-NII-1(Separate 10mm)											
Front side	802.11a	48/5240	99.53%	1.005	0.098	-0.06	16.05	17.50	1.395	0.137	22.3
Back side	802.11a	48/5240	99.53%	1.005	0.694	-0.05	16.05	17.50	1.395	0.973	22.3
Back side	802.11a	44/5220	99.53%	1.005	0.532	-0.05	15.87	17.50	1.456	0.778	22.3
Back side Simultaneous	802.11a	48/5240	99.53%	1.005	0.694	-0.05	16.05	11.50	0.351	0.244	22.3
Right side	802.11a	48/5240	99.53%	1.005	0.249	0.03	16.05	17.50	1.395	0.349	22.3
Top side	802.11a	48/5240	99.53%	1.005	0.306	-0.06	16.05	17.50	1.395	0.429	22.3



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Hotspot Test data of U-NII-3 (Separate 10mm)											
Front side	802.11a	157/5785	99.53%	1.005	0.189	0.05	18.79	20.00	1.320	0.251	22.2
Back side	802.11a	157/5785	99.53%	1.005	0.735	-0.05	18.79	20.00	1.320	0.975	22.2
Back side	802.11a	149/5745	99.53%	1.005	0.685	0.02	18.58	20.00	1.386	0.954	22.2
Back side Simultaneous	802.11a	157/5785	99.53%	1.005	0.735	-0.05	18.79	13.50	0.296	0.218	22.2
Right side	802.11a	157/5785	99.53%	1.005	0.665	-0.10	18.79	20.00	1.320	0.882	22.2
Right side	802.11a	149/5745	99.53%	1.005	0.577	0.07	18.58	20.00	1.386	0.804	22.2
Top side	802.11a	157/5785	99.53%	1.005	0.626	-0.07	18.79	20.00	1.320	0.830	22.2
Top side	802.11a	149/5745	99.53%	1.005	0.523	-0.19	18.58	20.00	1.386	0.728	22.2
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10gSAR Test data of U-NII-1(Separate 0mm)											
Back side	802.11a	48/5240	99.53%	1.005	0.544	-0.09	16.05	17.50	1.395	0.763	22.3
Top side	802.11a	48/5240	99.53%	1.005	0.826	0.08	16.05	17.50	1.395	1.158	22.3
Hotspot Test data of U-NII-2A(Separate 0mm)											
Front side	802.11a	60/5300	99.53%	1.005	0.258	0.03	16.58	17.50	1.236	0.320	22.3
Back side	802.11a	60/5300	99.53%	1.005	0.676	0.07	16.58	17.50	1.236	0.840	22.3
Right side	802.11a	60/5300	99.53%	1.005	0.486	0.01	16.58	17.50	1.236	0.604	22.3
Top side	802.11a	60/5300	99.53%	1.005	1.010	0.05	16.58	17.50	1.236	1.255	22.3
Product specific 10gSAR Test data of U-NII-2C(Separate 0mm)											
Front side	802.11a	100/5500	99.53%	1.005	0.405	0.09	16.00	17.50	1.412	0.575	22.4
Back side	802.11a	100/5500	99.53%	1.005	0.825	0.01	16.00	17.50	1.412	1.170	22.4
Right side	802.11a	100/5500	99.53%	1.005	0.742	0.04	16.00	17.50	1.412	1.053	22.4
Top side	802.11a	100/5500	99.53%	1.005	1.270	0.09	16.00	17.50	1.412	1.802	22.4
Hotspot Test data of U-NII-3 (Separate 0mm)											
Back side	802.11a	157/5785	99.53%	1.005	0.654	0.05	18.79	20.00	1.320	0.867	22.2
Top side	802.11a	157/5785	99.53%	1.005	1.300	0.02	18.79	20.00	1.320	1.724	22.2

Table 31: SAR of WIFI 5G for Head and Body.

Note:

- As the 802.11a highest reported SAR is smaller than 1.2 W/kg , and the tune-up of the other 802.11 modes are not higher than 802.11a,therefore the adjusted SAR is ≤ 1.2 W/kg for other 802.11 modes, SAR test for the other 802.11 modes are not required. For Product specific 10gSAR the highest reported SAR is smaller than 3.0 W/kg, SAR test for the other 802.11 modes are also not required.



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8.2.2 SAR Result of BT

Bluetooth SAR Test Record											
Ant7 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data											
Left cheek	DH5	39/2441	76.86%	1.301	0.380	-0.07	16.29	17.50	1.321	0.653	22.3
Left cheek Simultaneous	DH5	39/2441	76.86%	1.301	0.380	-0.07	16.29	13.00	0.469	0.232	22.3
Left tilted	DH5	39/2441	76.86%	1.301	0.252	0.04	16.29	17.50	1.321	0.433	22.3
Right cheek	DH5	39/2441	76.86%	1.301	0.149	0.03	16.29	17.50	1.321	0.256	22.3
Right tilted	DH5	39/2441	76.86%	1.301	0.172	0.07	16.29	17.50	1.321	0.296	22.3
Body worn Test data(Separate 15mm)											
Front side	DH5	39/2441	76.86%	1.301	0.011	0.05	16.29	17.50	1.321	0.019	22.3
Back side	DH5	39/2441	76.86%	1.301	0.042	0.02	16.29	17.50	1.321	0.072	22.3
Hotspot Test data (Separate 10mm)											
Front side	DH5	39/2441	76.86%	1.301	0.056	0.01	16.29	17.50	1.321	0.096	22.3
Back side	DH5	39/2441	76.86%	1.301	0.130	0.03	16.29	17.50	1.321	0.223	22.3
Right side	DH5	39/2441	76.86%	1.301	0.048	0.09	16.29	17.50	1.321	0.083	22.3
Top side	DH5	39/2441	76.86%	1.301	0.068	0.04	16.29	17.50	1.321	0.117	22.3

Ant8 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data											
Left cheek	DH5	78/2480	76.86%	1.301	0.269	0.02	16.18	17.50	1.355	0.474	22.3
Left cheek Simultaneous	DH5	78/2480	76.86%	1.301	0.269	0.02	16.18	14.50	0.679	0.238	22.3
Left tilted	DH5	78/2480	76.86%	1.301	0.073	0.09	16.18	17.50	1.355	0.129	22.3
Right cheek	DH5	78/2480	76.86%	1.301	0.116	0.04	16.18	17.50	1.355	0.205	22.3
Right tilted	DH5	78/2480	76.86%	1.301	0.014	0.01	16.18	17.50	1.355	0.025	22.3
Body worn Test data(Separate 15mm)											
Front side	DH5	78/2480	76.86%	1.301	0.012	0.06	16.18	17.50	1.355	0.021	22.3
Back side	DH5	78/2480	76.86%	1.301	0.057	-0.02	16.18	17.50	1.355	0.101	22.3
Hotspot Test data (Separate 10mm)											
Front side	DH5	78/2480	76.86%	1.301	0.054	0.03	16.18	17.50	1.355	0.095	22.3
Back side	DH5	78/2480	76.86%	1.301	0.127	0.04	16.18	17.50	1.355	0.224	22.3
Right side	DH5	78/2480	76.86%	1.301	0.087	0.12	16.18	17.50	1.355	0.153	22.3
Top side	DH5	78/2480	76.86%	1.301	0.010	0.01	16.18	17.50	1.355	0.018	22.3

Table 32: SAR of BT for Head and Body.



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8.3 Multiple Transmitter Evaluation

8.3.1 Simultaneous SAR test evaluation

- Simultaneous Transmission Possibilities

NO	Simultaneous Tx Combination	Head	Body-worn	Hotspot	Product Specific 10-g (0mm)
1	WWAN + WIFI 2.4G MIMO	Y	Y	Y	Y
2	WWAN + WIFI 5G MIMO	Y	Y	Y	Y
3	WWAN + WIFI 5G MIMO + BT1	Y	Y	Y	Y
4	WWAN + WIFI 5G MIMO + BT2	Y	Y	Y	Y

Note:

- BT1= BT ANT7, BT2= BT ANT8
- Simultaneous SAR is use MIMO cover SISO according to conducted power
- Standalone/ENDC Simultaneous SAR is don't distinguish between antenna and frequency band, and select the worst position value for evaluation



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8.3.2 Simultaneous Transmission SAR Summation Scenario
Simultaneous Transmission SAR Summation Scenario for WLAN Head:

Test position		SARmax (W/kg)					Summed SAR		
		WWAN	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant7	BT Ant8			
		1	2	3	4	5	1+2	1+3+4	1+3+5
GSM 850	Left cheek	0.769	0.462	0.248	0.232	0.238	1.231	1.249	1.255
	Left tilted	0.690	0.462	0.248	0.232	0.238	1.152	1.170	1.176
	Right cheek	1.075	0.462	0.248	0.232	0.238	1.537	1.555	1.561
	Right tilted	0.698	0.462	0.248	0.232	0.238	1.160	1.178	1.184
GSM 1900	Left cheek	0.380	0.462	0.248	0.232	0.238	0.842	0.860	0.866
	Left tilted	0.206	0.462	0.248	0.232	0.238	0.668	0.686	0.692
	Right cheek	0.931	0.462	0.248	0.232	0.238	1.393	1.411	1.417
	Right tilted	0.242	0.462	0.248	0.232	0.238	0.704	0.722	0.728
WCDMA II	Left cheek	0.368	0.462	0.248	0.232	0.238	0.830	0.848	0.854
	Left tilted	0.169	0.462	0.248	0.232	0.238	0.631	0.649	0.655
	Right cheek	1.031	0.462	0.248	0.232	0.238	1.493	1.511	1.517
	Right tilted	0.202	0.462	0.248	0.232	0.238	0.664	0.682	0.688
WCDMA IV	Left cheek	0.405	0.462	0.248	0.232	0.238	0.867	0.885	0.891
	Left tilted	0.257	0.462	0.248	0.232	0.238	0.719	0.737	0.743
	Right cheek	1.085	0.462	0.248	0.232	0.238	1.547	1.565	1.571
	Right tilted	0.261	0.462	0.248	0.232	0.238	0.723	0.741	0.747
WCDMA V	Left cheek	0.873	0.462	0.248	0.232	0.238	1.335	1.353	1.359
	Left tilted	0.639	0.462	0.248	0.232	0.238	1.101	1.119	1.125
	Right cheek	1.037	0.462	0.248	0.232	0.238	1.499	1.517	1.523
	Right tilted	0.797	0.462	0.248	0.232	0.238	1.259	1.277	1.283
LTE Band 2	Left cheek	0.227	0.462	0.248	0.232	0.238	0.689	0.707	0.713
	Left tilted	0.141	0.462	0.248	0.232	0.238	0.603	0.621	0.627
	Right cheek	0.696	0.462	0.248	0.232	0.238	1.158	1.176	1.182
	Right tilted	0.172	0.462	0.248	0.232	0.238	0.634	0.652	0.658
LTE Band 5	Left cheek	0.791	0.462	0.248	0.232	0.238	1.253	1.271	1.277
	Left tilted	0.704	0.462	0.248	0.232	0.238	1.166	1.184	1.190
	Right cheek	1.005	0.462	0.248	0.232	0.238	1.467	1.485	1.491
	Right tilted	0.711	0.462	0.248	0.232	0.238	1.173	1.191	1.197
LTE Band 7	Left cheek	0.637	0.462	0.248	0.232	0.238	1.099	1.117	1.123
	Left tilted	0.797	0.462	0.248	0.232	0.238	1.259	1.277	1.283
	Right cheek	1.086	0.462	0.248	0.232	0.238	1.548	1.566	1.572
	Right tilted	0.996	0.462	0.248	0.232	0.238	1.458	1.476	1.482
LTE Band 38	Left cheek	0.460	0.462	0.248	0.232	0.238	0.922	0.940	0.946
	Left tilted	0.608	0.462	0.248	0.232	0.238	1.070	1.088	1.094
	Right cheek	0.862	0.462	0.248	0.232	0.238	1.324	1.342	1.348
	Right tilted	0.733	0.462	0.248	0.232	0.238	1.195	1.213	1.219
LTE Band 41	Left cheek	0.780	0.462	0.248	0.232	0.238	1.242	1.260	1.266
	Left tilted	0.801	0.462	0.248	0.232	0.238	1.263	1.281	1.287
	Right cheek	0.807	0.462	0.248	0.232	0.238	1.269	1.287	1.293
	Right tilted	0.875	0.462	0.248	0.232	0.238	1.337	1.355	1.361
LTE Band 66	Left cheek	0.550	0.462	0.248	0.232	0.238	1.012	1.030	1.036
	Left tilted	0.534	0.462	0.248	0.232	0.238	0.996	1.014	1.020
	Right cheek	1.060	0.462	0.248	0.232	0.238	1.522	1.540	1.546
	Right tilted	1.069	0.462	0.248	0.232	0.238	1.531	1.549	1.555
5G NR n5	Left cheek	0.721	0.462	0.248	0.232	0.238	1.183	1.201	1.207
	Left tilted	0.734	0.462	0.248	0.232	0.238	1.196	1.214	1.220
	Right cheek	0.980	0.462	0.248	0.232	0.238	1.442	1.460	1.466



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	Right tilted	0.725	0.462	0.248	0.232	0.238	1.187	1.205	1.211
5G NR n7	Left cheek	0.578	0.462	0.248	0.232	0.238	1.040	1.058	1.064
	Left tilted	0.650	0.462	0.248	0.232	0.238	1.112	1.130	1.136
	Right cheek	0.837	0.462	0.248	0.232	0.238	1.299	1.317	1.323
	Right tilted	0.787	0.462	0.248	0.232	0.238	1.249	1.267	1.273
5G NR n38	Left cheek	0.450	0.462	0.248	0.232	0.238	0.912	0.930	0.936
	Left tilted	0.150	0.462	0.248	0.232	0.238	0.612	0.630	0.636
	Right cheek	0.298	0.462	0.248	0.232	0.238	0.760	0.778	0.784
	Right tilted	0.253	0.462	0.248	0.232	0.238	0.715	0.733	0.739
5G NR n41	Left cheek	0.794	0.462	0.248	0.232	0.238	1.256	1.274	1.280
	Left tilted	0.888	0.462	0.248	0.232	0.238	1.350	1.368	1.374
	Right cheek	1.010	0.462	0.248	0.232	0.238	1.472	1.490	1.496
	Right tilted	1.049	0.462	0.248	0.232	0.238	1.511	1.529	1.535
5G NR n77 27Q	Left cheek	0.954	0.462	0.248	0.232	0.238	1.416	1.434	1.440
	Left tilted	0.792	0.462	0.248	0.232	0.238	1.254	1.272	1.278
	Right cheek	0.989	0.462	0.248	0.232	0.238	1.451	1.469	1.475
	Right tilted	0.559	0.462	0.248	0.232	0.238	1.021	1.039	1.045
5G NR n77 27O	Left cheek	0.905	0.462	0.248	0.232	0.238	1.367	1.385	1.391
	Left tilted	0.953	0.462	0.248	0.232	0.238	1.415	1.433	1.439
	Right cheek	0.763	0.462	0.248	0.232	0.238	1.225	1.243	1.249
	Right tilted	0.455	0.462	0.248	0.232	0.238	0.917	0.935	0.941
5G NR n78 27Q	Left cheek	0.928	0.462	0.248	0.232	0.238	1.390	1.408	1.414
	Left tilted	0.888	0.462	0.248	0.232	0.238	1.350	1.368	1.374
	Right cheek	1.062	0.462	0.248	0.232	0.238	1.524	1.542	1.548
	Right tilted	0.685	0.462	0.248	0.232	0.238	1.147	1.165	1.171
5G NR n78 27O	Left cheek	0.557	0.462	0.248	0.232	0.238	1.019	1.037	1.043
	Left tilted	0.593	0.462	0.248	0.232	0.238	1.055	1.073	1.079
	Right cheek	0.385	0.462	0.248	0.232	0.238	0.847	0.865	0.871
	Right tilted	0.276	0.462	0.248	0.232	0.238	0.738	0.756	0.762

Test position		SARmax (W/kg)					Summed SAR		
		Main Ant0	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant7	BT Ant8			
		1	2	3	4	5	1+2	1+3+4	1+3+5
ENDC	Left cheek	1.076	0.462	0.248	0.232	0.238	1.538	1.556	1.562
	Left tilted	1.076	0.462	0.248	0.232	0.238	1.538	1.556	1.562
	Right cheek	1.076	0.462	0.248	0.232	0.238	1.538	1.556	1.562
	Right tilted	1.076	0.462	0.248	0.232	0.238	1.538	1.556	1.562



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**Simultaneous Transmission SAR Summation Scenario for WLAN Body:
Body-worn:**

Test position		SARmax (W/kg)					Summed SAR		
		WWAN	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant7	BT Ant8			
		1	2	3	4	5	1+2	1+3+4	1+3+5
GSM 850	Front side	0.179	0.199	0.234	0.019	0.021	0.378	0.432	0.434
	Back side	0.228	0.354	0.234	0.072	0.101	0.582	0.534	0.563
GSM 1900	Front side	0.175	0.199	0.234	0.019	0.021	0.374	0.428	0.430
	Back side	0.304	0.354	0.234	0.072	0.101	0.658	0.610	0.639
WCDMA II	Front side	0.414	0.199	0.234	0.019	0.021	0.613	0.667	0.669
	Back side	0.703	0.354	0.234	0.072	0.101	1.057	1.009	1.038
WCDMA IV	Front side	0.398	0.199	0.234	0.019	0.021	0.597	0.651	0.653
	Back side	1.092	0.354	0.234	0.072	0.101	1.446	1.398	1.427
WCDMA V	Front side	0.249	0.199	0.234	0.019	0.021	0.448	0.502	0.504
	Back side	0.302	0.354	0.234	0.072	0.101	0.656	0.608	0.637
LTE Band 2	Front side	0.263	0.199	0.234	0.019	0.021	0.462	0.516	0.518
	Back side	0.432	0.354	0.234	0.072	0.101	0.786	0.738	0.767
LTE Band 5	Front side	0.249	0.199	0.234	0.019	0.021	0.448	0.502	0.504
	Back side	0.302	0.354	0.234	0.072	0.101	0.656	0.608	0.637
LTE Band 7	Front side	0.522	0.199	0.234	0.019	0.021	0.721	0.775	0.777
	Back side	0.579	0.354	0.234	0.072	0.101	0.933	0.885	0.914
LTE Band 38	Front side	0.230	0.199	0.234	0.019	0.021	0.429	0.483	0.485
	Back side	0.389	0.354	0.234	0.072	0.101	0.743	0.695	0.724
LTE Band 41	Front side	0.378	0.199	0.234	0.019	0.021	0.577	0.631	0.633
	Back side	0.423	0.354	0.234	0.072	0.101	0.777	0.729	0.758
LTE Band 66	Front side	0.443	0.199	0.234	0.019	0.021	0.642	0.696	0.698
	Back side	0.758	0.354	0.234	0.072	0.101	1.112	1.064	1.093
5G NR n5	Front side	0.168	0.199	0.234	0.019	0.021	0.367	0.421	0.423
	Back side	0.279	0.354	0.234	0.072	0.101	0.633	0.585	0.614
5G NR n7	Front side	0.594	0.199	0.234	0.019	0.021	0.793	0.847	0.849
	Back side	0.874	0.354	0.234	0.072	0.101	1.228	1.180	1.209
5G NR n38	Front side	0.303	0.199	0.234	0.019	0.021	0.502	0.556	0.558
	Back side	0.767	0.354	0.234	0.072	0.101	1.121	1.073	1.102
5G NR n41	Front side	0.549	0.199	0.234	0.019	0.021	0.748	0.802	0.804
	Back side	0.772	0.354	0.234	0.072	0.101	1.126	1.078	1.107
5G NR n77 27Q	Front side	0.835	0.199	0.234	0.019	0.021	1.034	1.088	1.090
	Back side	0.870	0.354	0.234	0.072	0.101	1.224	1.176	1.205
5G NR n77 27O	Front side	0.484	0.199	0.234	0.019	0.021	0.683	0.737	0.739
	Back side	0.507	0.354	0.234	0.072	0.101	0.861	0.813	0.842
5G NR n78 27Q	Front side	0.787	0.199	0.234	0.019	0.021	0.986	1.040	1.042
	Back side	0.966	0.354	0.234	0.072	0.101	1.320	1.272	1.301
5G NR n78 27O	Front side	0.557	0.199	0.234	0.019	0.021	0.756	0.810	0.812
	Back side	0.599	0.354	0.234	0.072	0.101	0.953	0.905	0.934

Test position		SARmax (W/kg)					Summed SAR		
		WWAN	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant7	BT Ant8			
		1	2	3	4	5	1+2	1+3+4	1+3+5
ENDC	Front side	0.954	0.199	0.234	0.019	0.021	1.153	1.207	1.209
	Back side	1.085	0.354	0.234	0.072	0.101	1.439	1.391	1.420



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Hotspot:

Test position		SARmax (W/kg)					Summed SAR		
		WWAN	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant7	BT Ant8			
		1	2	3	4	5	1+2	1+3+4	1+3+5
GSM 850	Front side	0.234	0.463	0.244	0.096	0.095	0.697	0.574	0.573
	Back side	0.487	0.463	0.244	0.223	0.224	0.950	0.954	0.955
	Left side	0.153	0.463	0.244	/	/	0.616	0.397	0.397
	Right side	0.075	0.463	0.244	0.083	0.153	0.538	0.402	0.472
	Top side	0.226	0.463	0.244	0.117	0.018	0.689	0.587	0.488
	Bottom side	0.077	0.463	0.244	/	/	0.540	0.321	0.321
GSM 1900	Front side	0.431	0.463	0.244	0.096	0.095	0.894	0.771	0.770
	Back side	0.664	0.463	0.244	0.223	0.224	1.127	1.131	1.132
	Left side	0.126	0.463	0.244	/	/	0.589	0.370	0.370
	Right side	/	0.463	0.244	0.083	0.153	0.463	0.327	0.397
	Top side	/	0.463	0.244	0.117	0.018	0.463	0.361	0.262
	Bottom side	0.466	0.463	0.244	/	/	0.929	0.710	0.710
WCDMA II	Front side	0.395	0.463	0.244	0.096	0.095	0.858	0.735	0.734
	Back side	0.783	0.463	0.244	0.223	0.224	1.246	1.250	1.251
	Left side	0.411	0.463	0.244	/	/	0.874	0.655	0.655
	Right side	0.152	0.463	0.244	0.083	0.153	0.615	0.479	0.549
	Top side	/	0.463	0.244	0.117	0.018	0.463	0.361	0.262
	Bottom side	0.634	0.463	0.244	/	/	1.097	0.878	0.878
WCDMA IV	Front side	0.306	0.463	0.244	0.096	0.095	0.769	0.646	0.645
	Back side	0.976	0.463	0.244	0.223	0.224	1.439	1.443	1.444
	Left side	0.501	0.463	0.244	/	/	0.964	0.745	0.745
	Right side	0.115	0.463	0.244	0.083	0.153	0.578	0.442	0.512
	Top side	/	0.463	0.244	0.117	0.018	0.463	0.361	0.262
	Bottom side	0.819	0.463	0.244	/	/	1.282	1.063	1.063
WCDMA V	Front side	0.248	0.463	0.244	0.096	0.095	0.711	0.588	0.587
	Back side	0.330	0.463	0.244	0.223	0.224	0.793	0.797	0.798
	Left side	0.169	0.463	0.244	/	/	0.632	0.413	0.413
	Right side	0.126	0.463	0.244	0.083	0.153	0.589	0.453	0.523
	Top side	0.253	0.463	0.244	0.117	0.018	0.716	0.614	0.515
	Bottom side	0.064	0.463	0.244	/	/	0.527	0.308	0.308
LTE Band 2	Front side	0.441	0.463	0.244	0.096	0.095	0.904	0.781	0.780
	Back side	0.904	0.463	0.244	0.223	0.224	1.367	1.371	1.372
	Left side	0.805	0.463	0.244	/	/	1.268	1.049	1.049
	Right side	0.378	0.463	0.244	0.083	0.153	0.841	0.705	0.775
	Top side	0.123	0.463	0.244	0.117	0.018	0.586	0.484	0.385
	Bottom side	/	0.463	0.244	/	/	0.463	0.244	0.244
LTE Band 5	Front side	0.228	0.463	0.244	0.096	0.095	0.691	0.568	0.567
	Back side	0.316	0.463	0.244	0.223	0.224	0.779	0.783	0.784
	Left side	0.148	0.463	0.244	/	/	0.611	0.392	0.392
	Right side	0.081	0.463	0.244	0.083	0.153	0.544	0.408	0.478
	Top side	0.236	0.463	0.244	0.117	0.018	0.699	0.597	0.498
	Bottom side	0.105	0.463	0.244	/	/	0.568	0.349	0.349
LTE Band 7	Front side	0.463	0.463	0.244	0.096	0.095	0.926	0.803	0.802
	Back side	0.653	0.463	0.244	0.223	0.224	1.116	1.120	1.121
	Left side	0.567	0.463	0.244	/	/	1.030	0.811	0.811
	Right side	0.345	0.463	0.244	0.083	0.153	0.808	0.672	0.742
	Top side	0.465	0.463	0.244	0.117	0.018	0.928	0.826	0.727
	Bottom side	0.480	0.463	0.244	/	/	0.943	0.724	0.724
LTE Band 38	Front side	0.239	0.463	0.244	0.096	0.095	0.702	0.579	0.578



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	Back side	0.468	0.463	0.244	0.223	0.224	0.931	0.935	0.936
	Left side	0.403	0.463	0.244	/	/	0.866	0.647	0.647
	Right side	/	0.463	0.244	0.083	0.153	0.463	0.327	0.397
	Top side	0.442	0.463	0.244	0.117	0.018	0.905	0.803	0.704
	Bottom side	0.060	0.463	0.244	/	/	0.523	0.304	0.304
LTE Band 41	Front side	0.481	0.463	0.244	0.096	0.095	0.944	0.821	0.820
	Back side	0.531	0.463	0.244	0.223	0.224	0.994	0.998	0.999
	Left side	0.354	0.463	0.244	/	/	0.817	0.598	0.598
	Right side	0.284	0.463	0.244	0.083	0.153	0.747	0.611	0.681
	Top side	0.386	0.463	0.244	0.117	0.018	0.849	0.747	0.648
LTE Band 66	Bottom side	0.456	0.463	0.244	/	/	0.919	0.700	0.700
	Front side	0.288	0.463	0.244	0.096	0.095	0.751	0.628	0.627
	Back side	0.909	0.463	0.244	0.223	0.224	1.372	1.376	1.377
	Left side	0.542	0.463	0.244	/	/	1.005	0.786	0.786
	Right side	0.119	0.463	0.244	0.083	0.153	0.582	0.446	0.516
5G NR n5	Top side	0.655	0.463	0.244	0.117	0.018	1.118	1.016	0.917
	Bottom side	0.771	0.463	0.244	/	/	1.234	1.015	1.015
	Front side	0.252	0.463	0.244	0.096	0.095	0.715	0.592	0.591
	Back side	0.418	0.463	0.244	0.223	0.224	0.881	0.885	0.886
	Left side	0.152	0.463	0.244	/	/	0.615	0.396	0.396
5G NR n7	Right side	0.087	0.463	0.244	0.083	0.153	0.550	0.414	0.484
	Top side	0.263	0.463	0.244	0.117	0.018	0.726	0.624	0.525
	Bottom side	0.077	0.463	0.244	/	/	0.540	0.321	0.321
	Front side	0.341	0.463	0.244	0.096	0.095	0.804	0.681	0.680
	Back side	0.438	0.463	0.244	0.223	0.224	0.901	0.905	0.906
5G NR n38	Left side	0.419	0.463	0.244	/	/	0.882	0.663	0.663
	Right side	0.232	0.463	0.244	0.083	0.153	0.695	0.559	0.629
	Top side	0.396	0.463	0.244	0.117	0.018	0.859	0.757	0.658
	Bottom side	0.081	0.463	0.244	/	/	0.544	0.325	0.325
	Front side	0.303	0.463	0.244	0.096	0.095	0.766	0.643	0.642
5G NR n41	Back side	0.767	0.463	0.244	0.223	0.224	1.230	1.234	1.235
	Left side	0.532	0.463	0.244	/	/	0.995	0.776	0.776
	Right side	/	0.463	0.244	0.083	0.153	0.463	0.327	0.397
	Top side	/	0.463	0.244	0.117	0.018	0.463	0.361	0.262
	Bottom side	0.115	0.463	0.244	/	/	0.578	0.359	0.359
5G NR n77 27Q	Front side	0.363	0.463	0.244	0.096	0.095	0.826	0.703	0.702
	Back side	0.535	0.463	0.244	0.223	0.224	0.998	1.002	1.003
	Left side	0.715	0.463	0.244	/	/	1.178	0.959	0.959
	Right side	0.226	0.463	0.244	0.083	0.153	0.689	0.553	0.623
	Top side	0.492	0.463	0.244	0.117	0.018	0.955	0.853	0.754
5G NR n77 27O	Bottom side	0.311	0.463	0.244	/	/	0.774	0.555	0.555
	Front side	0.389	0.463	0.244	0.096	0.095	0.852	0.729	0.728
	Back side	0.454	0.463	0.244	0.223	0.224	0.917	0.921	0.922
	Left side	0.947	0.463	0.244	/	/	1.410	1.191	1.191
	Right side	0.277	0.463	0.244	0.083	0.153	0.740	0.604	0.674
5G NR n78 27Q	Top side	0.302	0.463	0.244	0.117	0.018	0.765	0.663	0.564
	Bottom side	/	0.463	0.244	/	/	0.463	0.244	0.244
	Front side	0.152	0.463	0.244	0.096	0.095	0.615	0.492	0.491
	Back side	0.235	0.463	0.244	0.223	0.224	0.698	0.702	0.703
	Left side	0.318	0.463	0.244	/	/	0.781	0.562	0.562
5G NR n77 27O	Right side	0.159	0.463	0.244	0.083	0.153	0.622	0.486	0.556
	Top side	0.199	0.463	0.244	0.117	0.018	0.662	0.560	0.461
	Bottom side	/	0.463	0.244	/	/	0.463	0.244	0.244
	Front side	0.407	0.463	0.244	0.096	0.095	0.870	0.747	0.746
	Back side	0.503	0.463	0.244	0.223	0.224	0.966	0.970	0.971



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	Left side	0.788	0.463	0.244	/	/	1.251	1.032	1.032
	Right side	0.274	0.463	0.244	0.083	0.153	0.737	0.601	0.671
	Top side	0.239	0.463	0.244	0.117	0.018	0.702	0.600	0.501
	Bottom side	/	0.463	0.244	/	/	0.463	0.244	0.244
5G NR n78 270	Front side	0.374	0.463	0.244	0.096	0.095	0.837	0.714	0.713
	Back side	0.451	0.463	0.244	0.223	0.224	0.914	0.918	0.919
	Left side	0.577	0.463	0.244	/	/	1.040	0.821	0.821
	Right side	0.276	0.463	0.244	0.083	0.153	0.739	0.603	0.673
	Top side	0.260	0.463	0.244	0.117	0.018	0.723	0.621	0.522
	Bottom side	/	0.463	0.244	/	/	0.463	0.244	0.244

Test position		SARmax (W/kg)					Summed SAR		
		WWAN	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant7	BT Ant8			
		1	2	3	4	5	1+2	1+3+4	1+3+5
ENDC	Front side	0.903	0.463	0.244	0.096	0.095	1.366	1.243	1.242
	Back side	0.959	0.463	0.244	0.223	0.224	1.422	1.426	1.427
	Left side	0.918	0.463	0.244	/	/	1.381	1.162	1.162
	Right side	0.903	0.463	0.244	0.083	0.153	1.366	1.230	1.300
	Top side	0.903	0.463	0.244	0.117	0.018	1.366	1.264	1.165
	Bottom side	0.903	0.463	0.244	/	/	1.366	1.147	1.147



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9 Equipment list

Test Platform		SPEAG DASY Professional				
Description		SAR Test System				
Software Reference		DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)				
Hardware Reference						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration	
<input checked="" type="checkbox"/>	Twin Phantom	SPEAG	SAM2	1563	NCR	NCR
<input checked="" type="checkbox"/>	Twin Phantom	SPEAG	SAM1	1410	NCR	NCR
<input checked="" type="checkbox"/>	Twin Phantom	SPEAG	SAM1	1770	NCR	NCR
<input checked="" type="checkbox"/>	DAE	SPEAG	DAE4	1428	2022-04-27	2022-04-26
<input checked="" type="checkbox"/>	DAE	SPEAG	DAE4	1455	2021-12-29	2022-12-28
<input checked="" type="checkbox"/>	DAE	SPEAG	DAE4	1740	2022-08-03	2023-08-02
<input checked="" type="checkbox"/>	E-Field Probe	SPEAG	EX3DV4	3962	2022-05-26	2023-05-25
<input checked="" type="checkbox"/>	E-Field Probe	SPEAG	EX3DV4	3789	2022-09-30	2023-09-29
<input checked="" type="checkbox"/>	E-Field Probe	SPEAG	EX3DV4	7735	2022-08-09	2023-08-08
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D835V2	4d256	2020-04-15	2023-04-14
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D1750V2	1105	2020-08-29	2023-08-28
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D1900V2	5d114	2020-08-27	2023-08-26
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D2450V2	1038	2020-04-08	2023-04-07
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D2600V2	1180	2021-05-12	2024-05-11
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D3500V2	1124	2021-05-17	2024-05-16
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D3700V2	1094	2021-05-17	2024-05-16
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D3900V2	1071	2021-05-20	2024-05-19
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D5GHzV2	1313	2022-01-25	2025-01-24
<input checked="" type="checkbox"/>	Dielectric parameter probes	SPEAG	DAKS-3.5	1120	2022-05-30	2023-05-29
<input checked="" type="checkbox"/>	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	0050920	2022-05-23	2023-05-22
<input checked="" type="checkbox"/>	Universal Radio Communication Tester	R&S	CMW500	111637	2022-09-26	2023-09-26
<input checked="" type="checkbox"/>	Radio Communication Analyzer	Anritsu	MT8821C	6261991088	2022-09-16	2023-09-15
<input checked="" type="checkbox"/>	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR
<input checked="" type="checkbox"/>	Signal Generator	R&S	SMB100A	182393	2022-02-14	2023-02-13
<input checked="" type="checkbox"/>	Preamplifier	Qiji	YX28980933	202104001	NCR	NCR



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<input checked="" type="checkbox"/>	Power Meter	Anritsu	ML2495A	2136003	2021-12-04	2022-12-03
<input checked="" type="checkbox"/>	Power Sensor	Anritsu	MA2411B	1911376	2021-12-04	2022-12-03
<input checked="" type="checkbox"/>	Power Sensor	Keysight	U2002H	MY5639004	2022-9-16	2023-9-15
<input checked="" type="checkbox"/>	Attenuator	SHX	TS2-3dB	30704	NCR	NCR
<input checked="" type="checkbox"/>	Coaxial low pass filter	Mini-Circuits	VLF-2500(+)	NA	NCR	NCR
<input checked="" type="checkbox"/>	Coaxial low pass filter	Microlab Fxr	LA-F13	NA	NCR	NCR
<input checked="" type="checkbox"/>	DC POWER SUPPLY	SAKO	SK1730SL5A	NA	NCR	NCR
<input checked="" type="checkbox"/>	Speed reading thermometer	LKM	DTM3000	SUW201-30-01	2022-09-19	2023-09-18
<input checked="" type="checkbox"/>	Humidity and Temperature Indicator	MingGao	MingGao	NA	2022-09-19	2023-09-18

Note: All the equipments are within the valid period when the tests are performed.



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10 Calibration certificate

Please see the Appendix C

11 Photographs

Please see the Appendix D

Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs

Appendix E: Conducted RF Output Power

Appendix F: Antenna Locations

---END---



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