

FCC SAR TEST REPORT

Application No.: SEWM2311000456RG
Applicant: Xiaomi Communications Co., Ltd.
Manufacturer: Xiaomi Communications Co., Ltd.
Product Name: Mobile Phone
Model No.(EUT): 23124RN87G
Trade Mark: Redmi
FCC ID: 2AFZZN87G
Standards: FCC 47CFR §2.1093
Date of Receipt: 2023-11-17
Date of Test: 2023-11-22 to 2023-12-16
Date of Issue: 2023-12-19
Test conclusion: **PASS ***

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

Authorized Signature:

Well Wei

Wireless Laboratory Manager



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REVISION HISTORY

Report Number	Revision	Description	Issue Date
SEWM2311000456RG09	01	Original	2023-12-19



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TEST SUMMARY


Frequency Band	Maximum Reported SAR(W/kg)			
	Head	Body-worn	Hotspot	Product specific 10g SAR
GSM850	0.68	0.31	0.31	/
GSM1900	1.03	0.44	0.59	/
WCDMA Band II	1.09	1.09	1.09	/
WCDMA Band IV	1.04	0.89	1.08	/
WCDMA Band V	0.97	0.36	0.36	/
LTE Band 2	1.00	0.86	0.86	/
LTE Band 7	0.96	1.04	1.04	/
LTE Band 12(17)	0.60	0.21	0.26	/
LTE Band 13	0.82	0.33	0.33	/
LTE Band 26(5)	0.74	0.40	0.40	/
LTE Band 41(38)	1.06	0.55	0.59	/
LTE Band 66(4)	0.89	0.88	1.08	/
NR Band n5	1.04	0.54	0.54	/
NR Band n7	1.07	1.08	1.08	/
NR Band n41(38)	1.08	1.01	1.01	/
NR Band n66	1.03	0.89	1.09	/
NR Band n77(78)	1.04	0.80	0.80	/
WI-FI (2.4GHz)	0.48	0.42	0.42	/
WI-FI (5GHz)	0.50	0.35	0.38	0.75
BT	0.12	0.07	0.07	/
NFC	/	/	/	<0.1
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	1.51	1.56	1.56	0.75
SPLSR	/	/	/	/
SPLSR Limited		0.04		0.1
<p>Note:</p> <p>1) According to TCB workshop October,2014 RF Exposure Procedures Update (Overlapping Bands): SAR for LTE Band 4 (Frequency range:1710 - 1755 MHz)/ LTE Band 38 (Frequency range:2570 - 2620 MHz)/n38 (Frequency range:2570 - 2620 MHz)/ n78 (Frequency range:3300 - 3800 MHz) is respectively covered by LTE Band 66 (Frequency range:1710 - 1780 MHz)/LTE Band41 (Frequency range:2496 - 2690 MHz)/ n41 (Frequency range:2496 - 2690 MHz)/ n77 (Frequency range:3300 - 3980 MHz) due to similar frequency range, same maximum tune up limit and same channel bandwidth.</p> <p>2) For LTE band 4/5/12/13/26 and n7/n41/n77 that do not support at least three non-overlapping channels in certain channel bandwidths, test the available non-overlapping channels instead. 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.</p>				




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1 DUT Antenna Locations (Back View)

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

Note:

- 1) The test device is a smart phone. The overall diagonal dimension of this device is 170 mm. Per KDB 648474 D04, because the diagonal distance of this device is $\geq 160\text{mm}$, so it is a phablet.
- 2) Ant 1 is sensor pad 1
 Ant 4/5 is sensor pad 2
 Ant 3 is sensor pad 3

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 1	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	Yes	No	Yes
Ant 2	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No
Ant 3	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	No	No
Ant 4	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No
Ant 5	Hotspot/Product specific 10g SAR	Yes	Yes	No	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

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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2 General Information

2.1 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

2.2 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:	Alan-Zhang



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2.3 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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2.4 General Description of EUT

Device Type :	portable device		
Exposure Category:	uncontrolled environment / general population		
Product Name:	Mobile Phone		
Model No.(EUT):	23124RN87G		
FCC ID:	2AFZZN87G		
Trade Mark:	Redmi		
Product Phase:	Identical Prototype		
IMEI:	1#:865408060041166/865408060041174 2#:865408060041448/865408060041455 3#:865408060039061/865408060039079		
Hardware Version:	13510C3V		
Software Version:	MIUI 14		
Device Operating Configurations :			
Modulation Mode:	GSM: GMSK, 8PSK; WCDMA: QPSK,16QAM; 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 12	699 - 716	729 - 746
	LTE Band 13	777 - 787	746 - 756
	LTE Band 17	704 - 716	734 - 746
	LTE Band 26	814 - 849	859 - 894
	LTE Band 38	2570 - 2620	2570 - 2620
	LTE Band 41	2496 - 2690	2496 - 2690
LTE Band 66	1710 - 1780	2110 - 2200	
NR Band n5	824 - 849	869 - 894	



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	NR Band n7	2500 - 2570	2620 - 2690
	NR Band n38	2570 - 2620	2570 - 2620
	NR Band n41	2496 - 2690	2496 - 2690
	NR Band n66	1710 - 1780	2110 - 2200
	NR Band n77	3450 - 3550	3450 - 3550
		3700 - 3980	3700 - 3980
	NR Band n78	3450 - 3550	3450 - 3550
		3700 - 3800	3700 - 3800
	Bluetooth	2400 - 2483.5	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		
1# Battery Information:	Model:	BN5Q	
	Normal Voltage:	+3.84V	
	Rated capacity:	4900mAh	
	Brand Name:	Zhejiang Sunwoda Electronic Co.,Ltd. Gongguan Amperex Technology Limited	
<p>Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.</p> <p>Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</p>			



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2.4.1 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_7C	7	2502.5 MHz	–	2567.5 MHz	2620 MHz	–	2690 MHz	FDD
CA_38C	38	2572.5 MHz	–	2617.5 MHz	2572.5MHz	–	2617.5 MHz	TDD



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- c) The device supports Inter-band uplink LTE CA for CA_2A-4A,CA_4A-7A with two component carriers in the uplink.
- 1. For Inter-band uplink LTE CA 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 LTE CA SAR from standalone SAR test results of each LTE component band and the conservative “max + max” multi-Tx method to combine the scaled SAR value from each Inter-band uplink LTE CA component band as the inter-band Uplink LTE CA SAR. All Simultaneous Transmission Scenarios will be evaluated independently in the final SAR report. Since the maximum output power of the LTE Inter-band uplink band is \leq the LTE Band, the SAR data of the LTE Band is used instead of the SAR data of the LTE Inter-band uplink band.

2CC Downlink Carrier Aggregation	DL 4x4 MIMO
CA_2C	
CA_2A-2A	
CA_2A-4A	4
CA_2A-5A	
CA_2A-7A	7
CA_2A-26A	
CA_2A-66A	66
CA_4A-4A	4
CA_4A-5A	4
CA_4A-7A	4,7
CA_5A-7A	7
CA_7A-7A	7
CA_7C	7
CA_7A-26A	7
CA_7A-66A	7,66
CA_26A-38A	38
CA_26A-41A	41
CA_38C	38
CA_41C	41
CA_41A-41A	41
CA_66A-66A	66
CA_66C	66
CA_66B	66



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2.4.2 Power reduction specification

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

- 1) A fixed level power reduction is applied for some frequency bands when simultaneously transmitting with the other antennas in certain simultaneous transmission conditions. The standalone SAR compliance still uses the standalone SAR results tested at the maximum output power level without any power reduction
- 2) 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.
- 3) 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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2.5 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
IEC/IEEE 62209-1528:2020	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)
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 D04	General RF Exposure Guidance v01
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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2.6 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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3 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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4 SAR Measurements System Configuration

4.1 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.

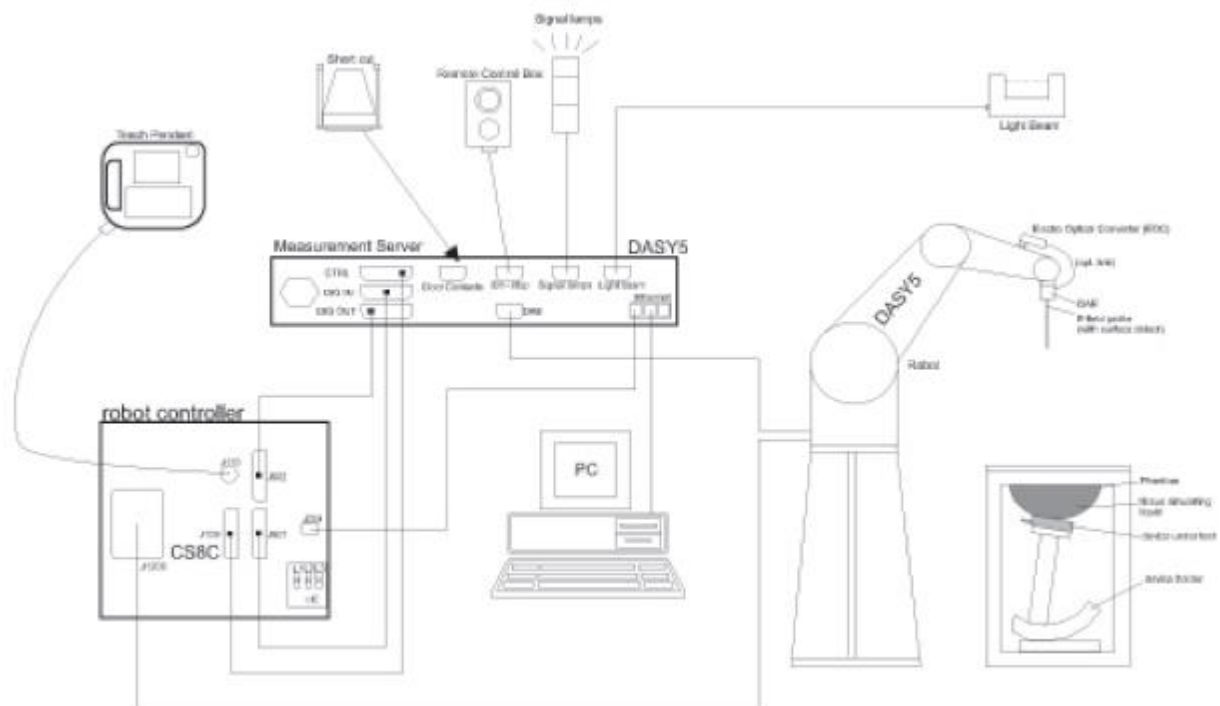
The DASY5 system for performing compliance tests consists of the following items:

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.

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

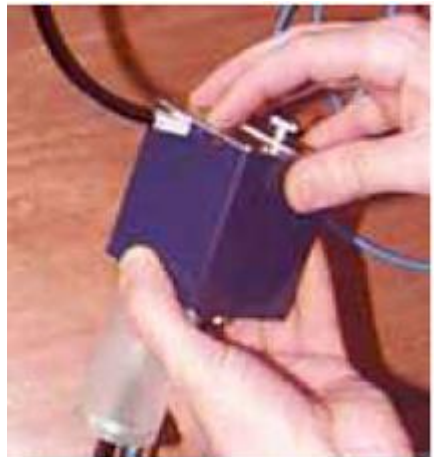


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4.3 Data Acquisition Electronics (DAE)

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	

4.4 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.



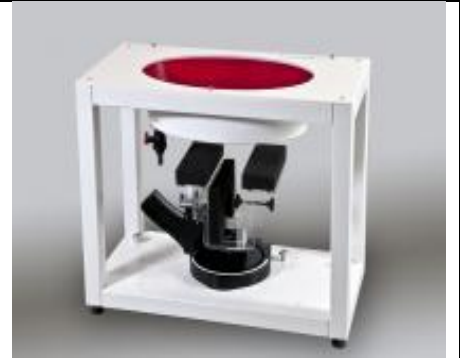
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4.5 ELI Phantom

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



The ELI phantom is used for compliance testing of handheld and body-mounted wireless devices in the frequency range of 4 MHz to 10 GHz. ELI is fully compatible with the IEC/IEEE 62209-1528 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 of SPEAG's dosimetric probes and dipoles.

ELI V5.0 and higher has the same shell geometry and is manufactured from the same material as ELI V4.0 but has a reinforced top structure.



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4.6 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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4.7 Measurement procedure

4.7.1 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 ($f \leq 2\text{GHz}$), 30mm*30mm*30mm (f for 2-3GHz) and 24mm*24mm*22mm (f for 5-6GHz) was assessed by measuring 5x5x7 points ($f \leq 2\text{GHz}$), 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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4.7.2 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.

4.7.3 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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5 SAR measurement variability and uncertainty

5.1 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.

5.2 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.

IEC- 62209-1528 sets out the general test methods to be followed when carrying out an RF exposure compliance assessment of wireless devices implementing device-based time-averaging methods for the management and/or mitigation of specific absorption rate (SAR) in the 4 MHz to 6 GHz frequency band. It does not cover requirements that are based on power density above 6 GHz or requirements to protect against nerve stimulation for the frequency range from 3 kHz to 10MHz.

Measurements and results are all in compliance with the standards listed. All measurements and results are recorded and maintained at the laboratory performing the tests and measurement uncertainties are taken into account when comparing measurements to pass/ fail criteria. The Expanded uncertainty (95% CONFIDENCE INTERVAL) is **23.34%**.

a	b	c	d	e = f(d,k)	g	i = C*g/e	K
Uncertainty Component	Section in P1528	Tol (%)	Prob.Dist.	Div.	Ci (1g)	1g ui (%)	Vi(Veff)
Measurement system							
Probe calibration	7.2.2.1	7.4	N	1	1	7.40	∞



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Axial isotropy	7.2.2.2	1.2	R	$\sqrt{3}$	1	0.69	∞	
hemispherical isotropy	7.2.2.2	3.2	R	$\sqrt{3}$	1	1.85	∞	
Linearity	7.2.2.3	0.9	R	$\sqrt{3}$	1	0.52	∞	
Probe modulation response	7.2.2.4	0	R	$\sqrt{3}$	1	0.00	∞	
Detection limits	7.2.2.5	0.25	R	$\sqrt{3}$	1	0.14	∞	
Boundary effect	7.2.2.6	1.0	R	$\sqrt{3}$	1	0.58	∞	
Readout electronics	7.2.2.7	0.3	N	1	1	0.30	∞	
Response time	7.2.2.8	0	R	$\sqrt{3}$	1	0.00	∞	
Integration time	7.2.2.9	2.6	R	$\sqrt{3}$	1	1.50	∞	
RF ambient conditions – noise	7.2.4.5	3	R	$\sqrt{3}$	1	1.73	∞	
RF ambient conditions – reflections	7.2.4.5	3	R	$\sqrt{3}$	1	1.73	∞	
Probe positioner mech. restrictions	7.2.3.1	1.5	R	$\sqrt{3}$	1	0.87	∞	
Probe positioning with respect to phantom shell	7.2.3.3	2.9	R	$\sqrt{3}$	1	1.67	∞	
Post-processing	7.2.5	1	R	$\sqrt{3}$	1	0.58	∞	
Test sample related								
Device holder uncertainty	7.2.3.4.2	3.6	N	1	1	3.60	∞	
Test sample positioning	7.2.3.4.3	3.7	N	1	1	3.70	9	
Power scaling	L.3	5.0	R	$\sqrt{3}$	1	2.89	∞	
Drift of output power (measured SAR drift)	7.2.2.10	5	R	$\sqrt{3}$	1	2.89	∞	
Phantom and set-up								
Phantom uncertainty (shape and thickness tolerances)	7.2.3.2	4	R	$\sqrt{3}$	1	2.31	∞	
Algorithm for correcting SAR for deviations in permittivity and conductivity	7.2.4.3	1.9	N	1	1	1.90	∞	
Liquid conductivity (meas.)	7.2.4.3	5.78	N	1	0.78	4.51	4	
Liquid permittivity (meas.)	7.2.4.3	0.62	N	1	0.23	0.14	5	
Liquid permittivity – temperature uncertainty	7.2.4.4	0.2	R	$\sqrt{3}$	0.78	0.09	∞	
Liquid conductivity – temperature uncertainty	7.2.4.4	5.37	R	$\sqrt{3}$	0.23	0.71	∞	
Combined standard uncertainty	RSS						11.67	417
Expanded uncertainty (95% CONFIDENCE INTERVAL)	K=2						23.34	



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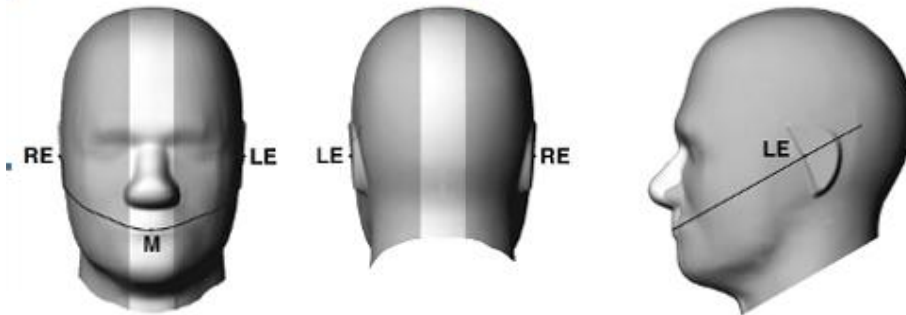
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6 Description of Test Position

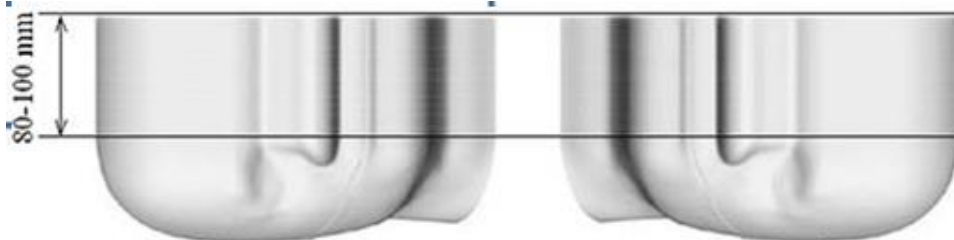
6.1 Head Exposure Condition

6.1.1 SAM Phantom Shape

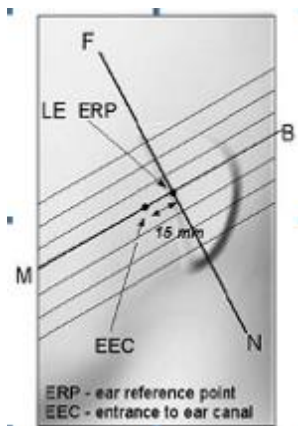


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

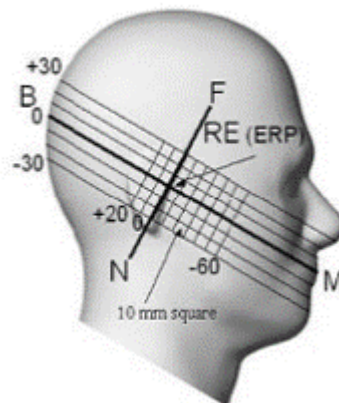
Note: The centre strip including the nose region has a different thickness tolerance.



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



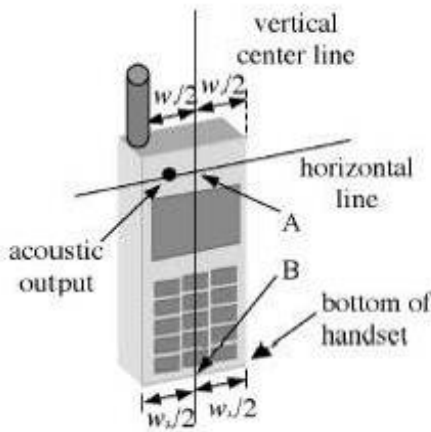
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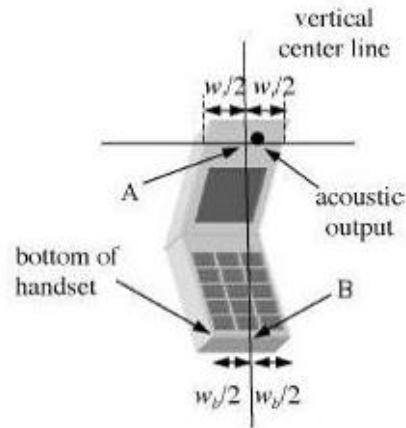
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6.1.2 EUT constructions



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



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

6.1.3 Definition of the “cheek” position

- 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.
- 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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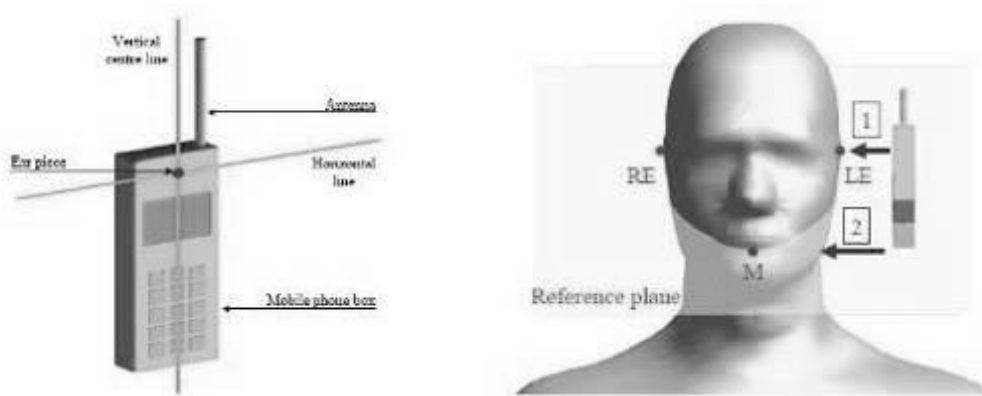
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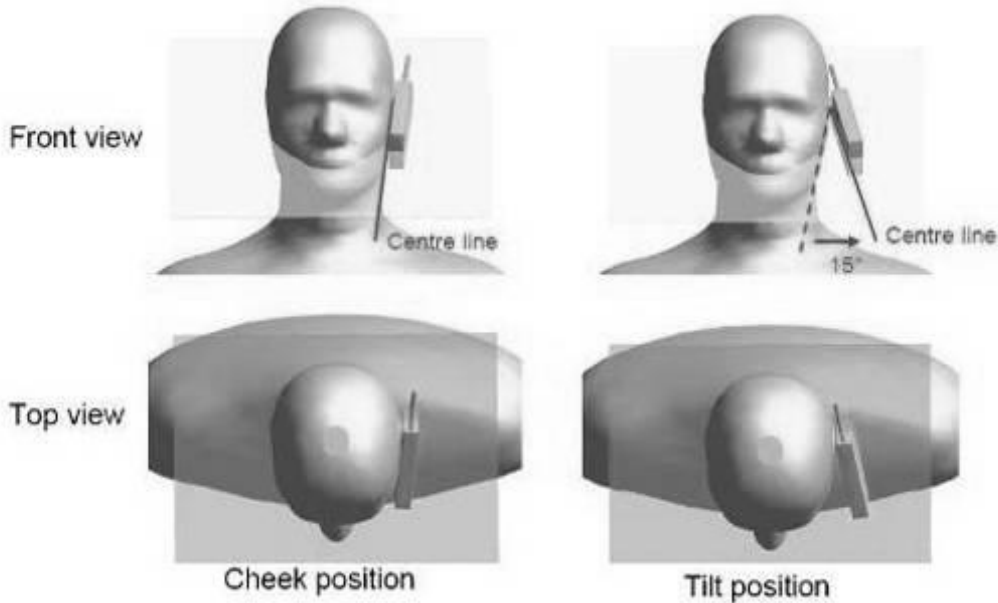
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6.1.4 Definition of the “tilted” position

- 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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6.2 Body Exposure Condition

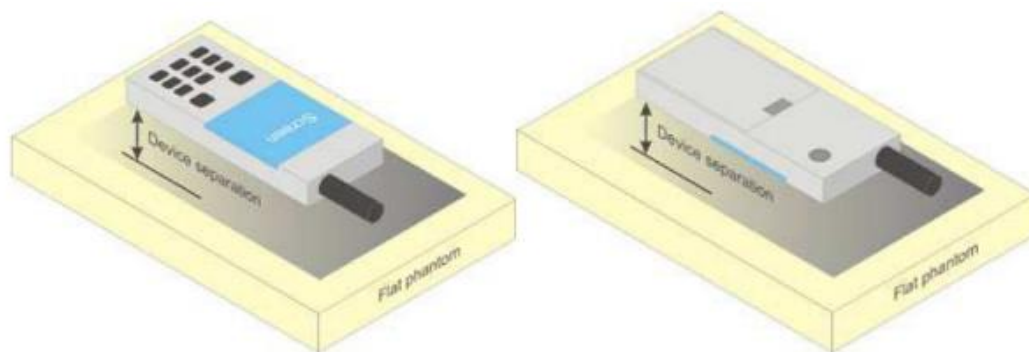
6.2.1 Body-worn accessory exposure conditions

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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6.2.2 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 ($L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$) 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.

6.3 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 $\leq 25 \text{ mm}$ 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, hotspot power levels, and product specific 10g SAR power levels are the same, no frequency bands need to test with 0mm for the Product Specific 10-g SAR are not required.



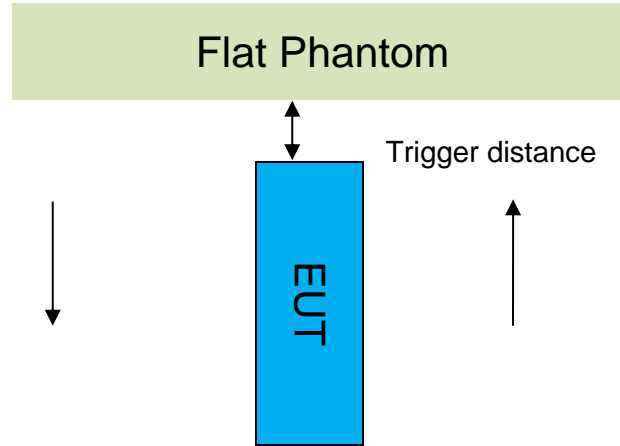
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6.4 Proximity Sensor Triggering Test

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)			
Ant1			
Position	Front Side	Back Side	Bottom Side
Minimum	12	20	20
Required SAR Test	11	19	19
Ant4/5			
Position	Front Side	Back Side	Top Side
Minimum	13	19	18
Required SAR Test	12	18	17
Ant3			
Position	Back Side		Left Side
Minimum	14		14
Required SAR Test	13		13

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.



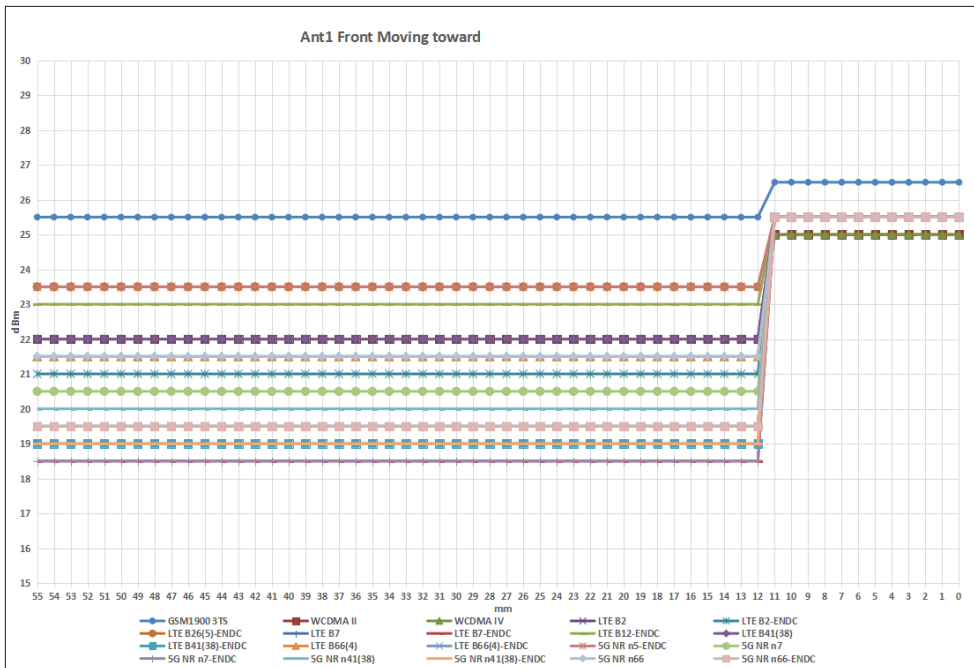
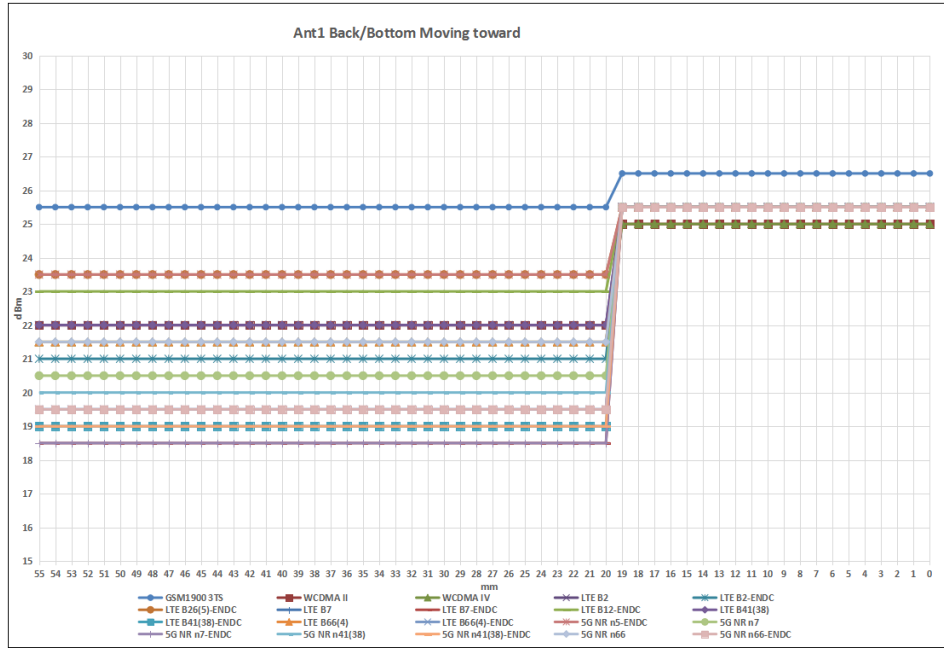
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● Ant 1 DUT Moving Toward(Trigger)the Phantom

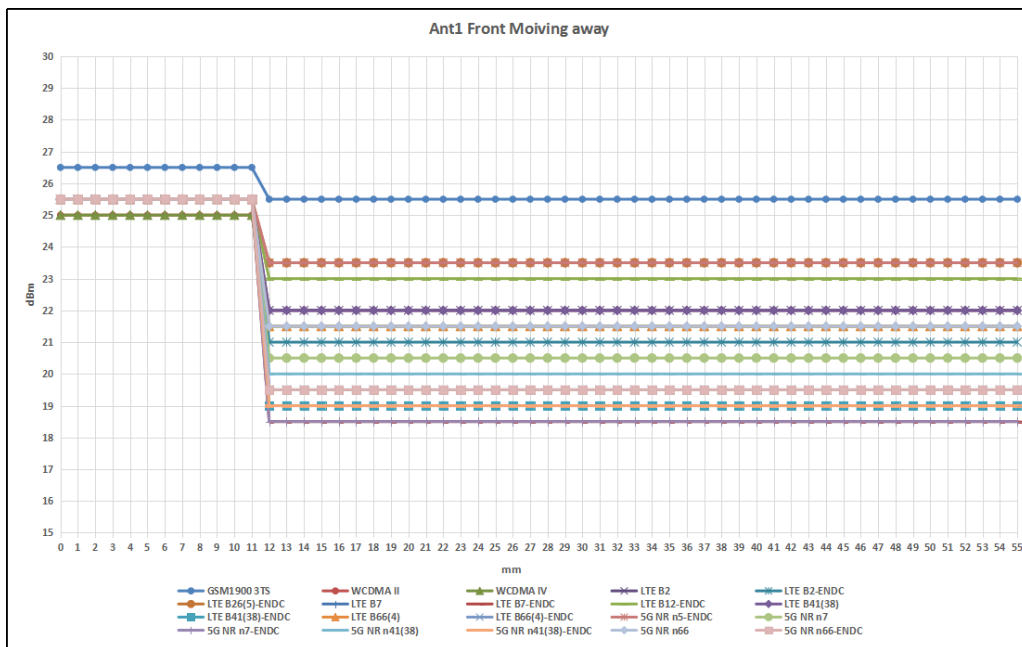
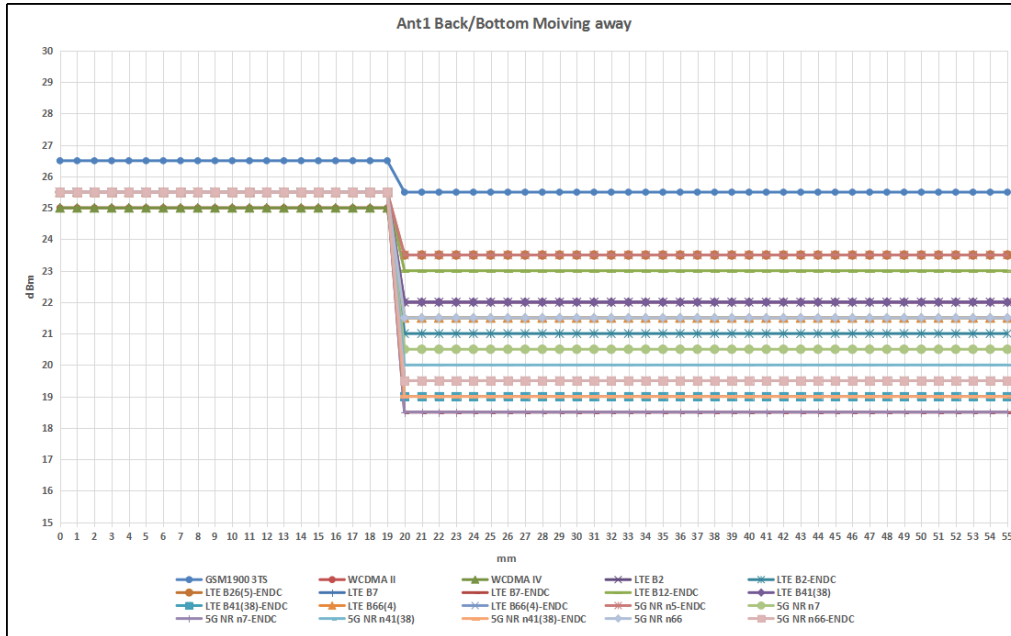


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● Ant 1 DUT Moving Away(Release) from the Phantom

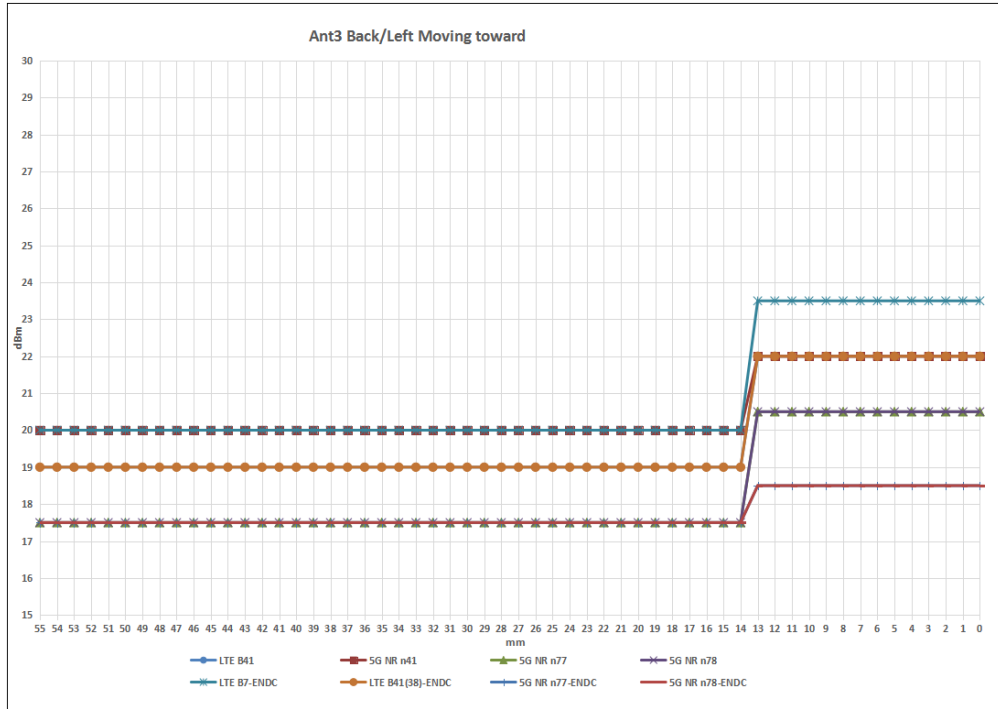


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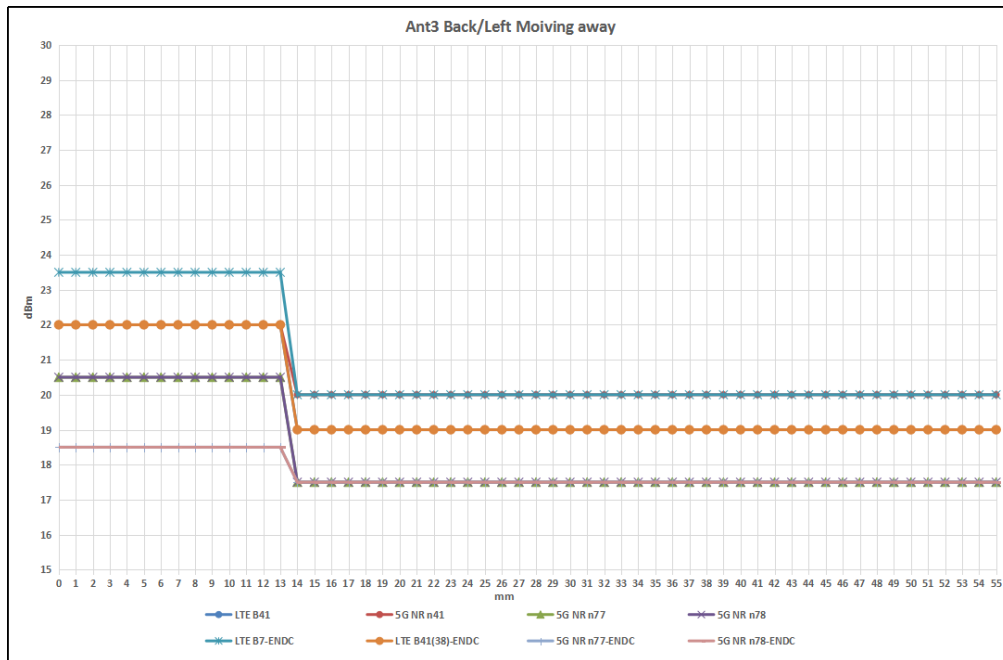
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● Ant 3 DUT Moving Toward(Trigger)the Phantom



● Ant 3 DUT Moving Away(Release) from the Phantom

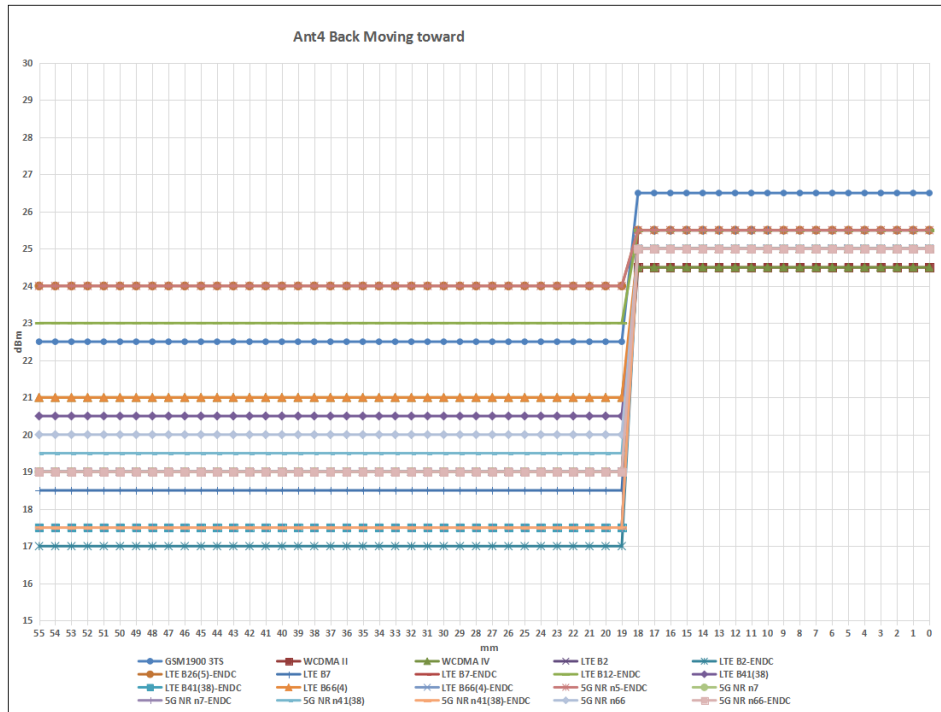


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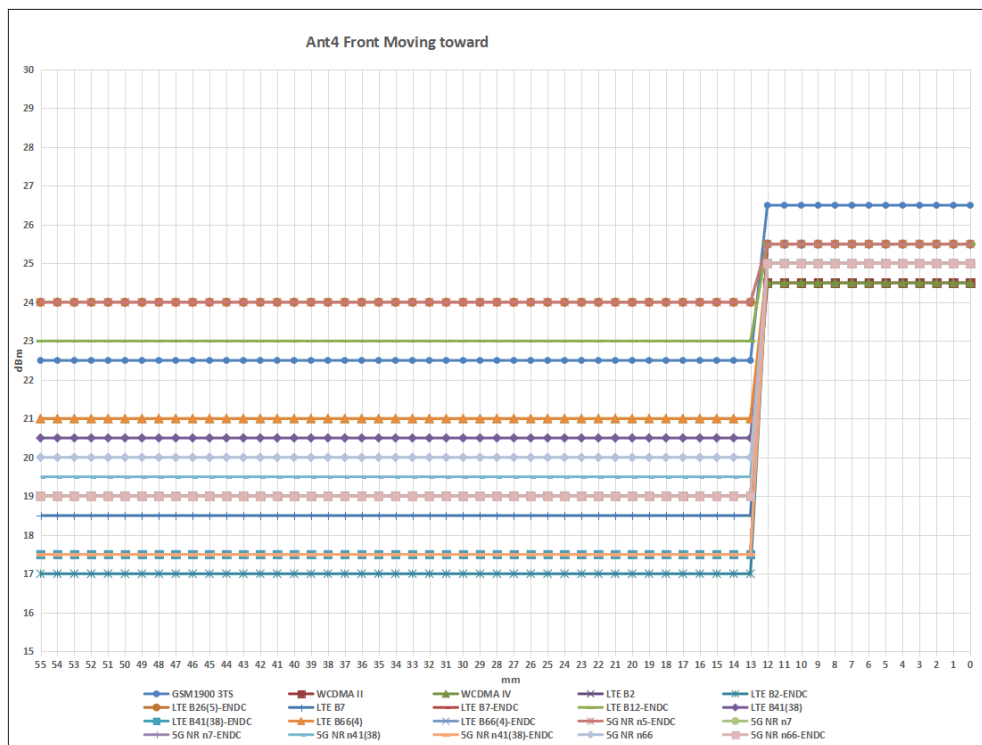
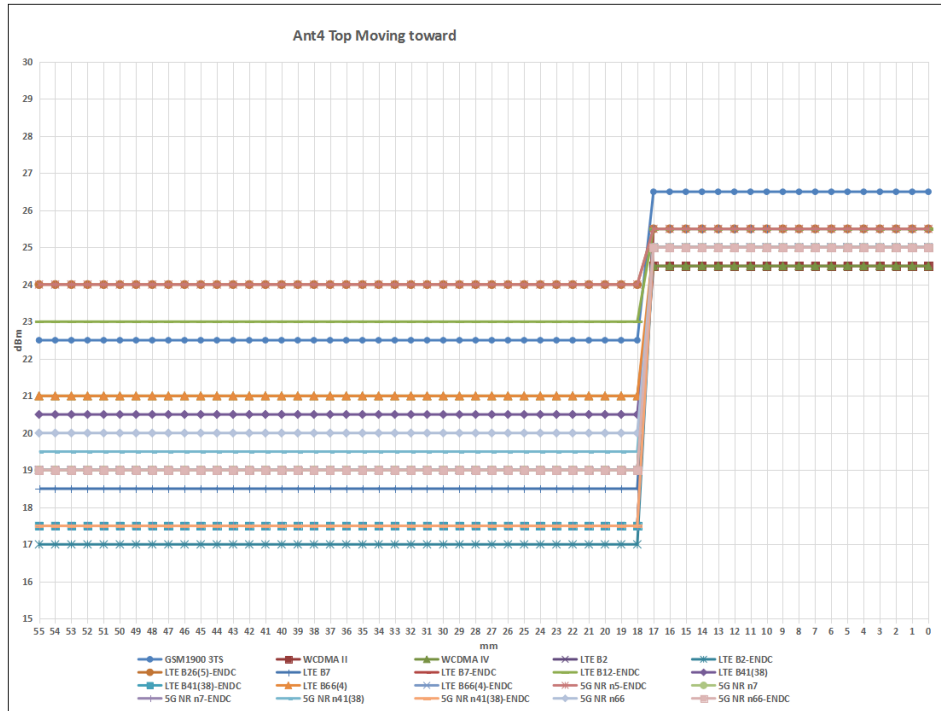
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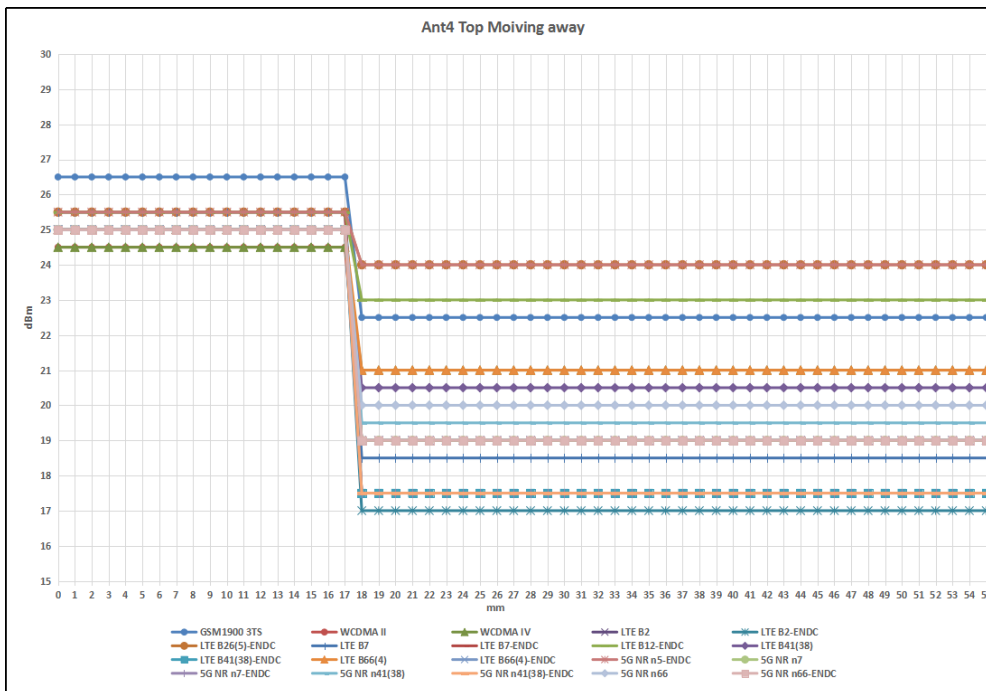
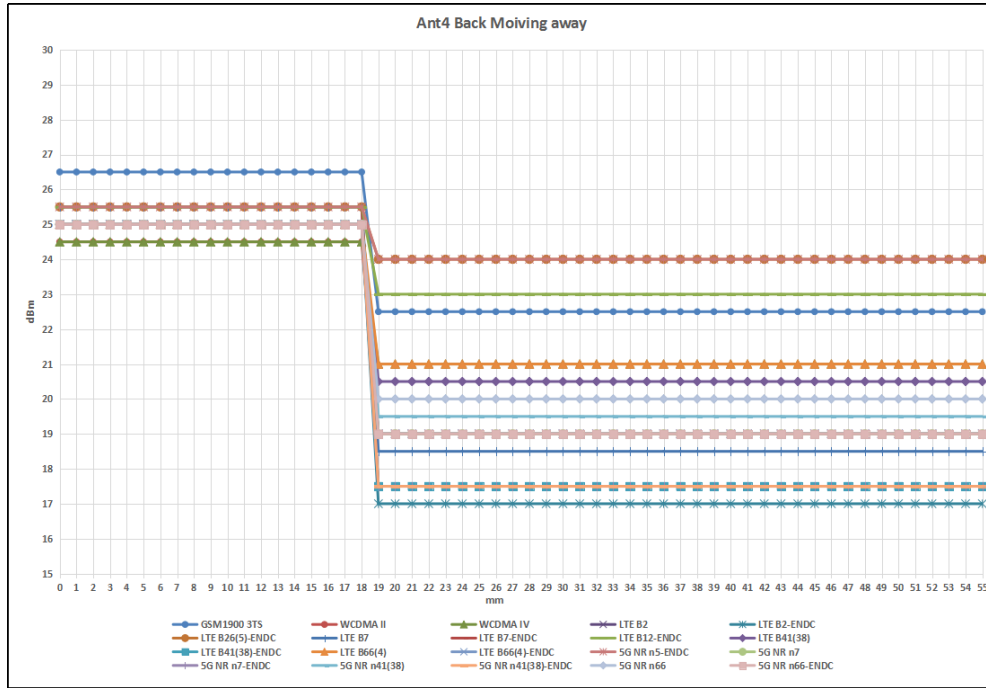
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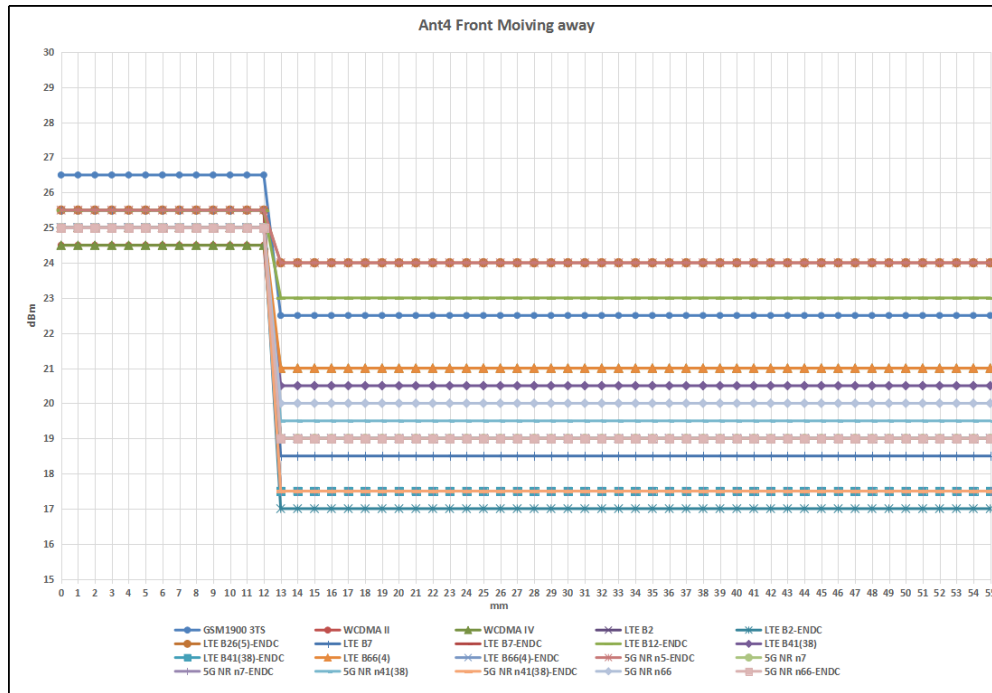


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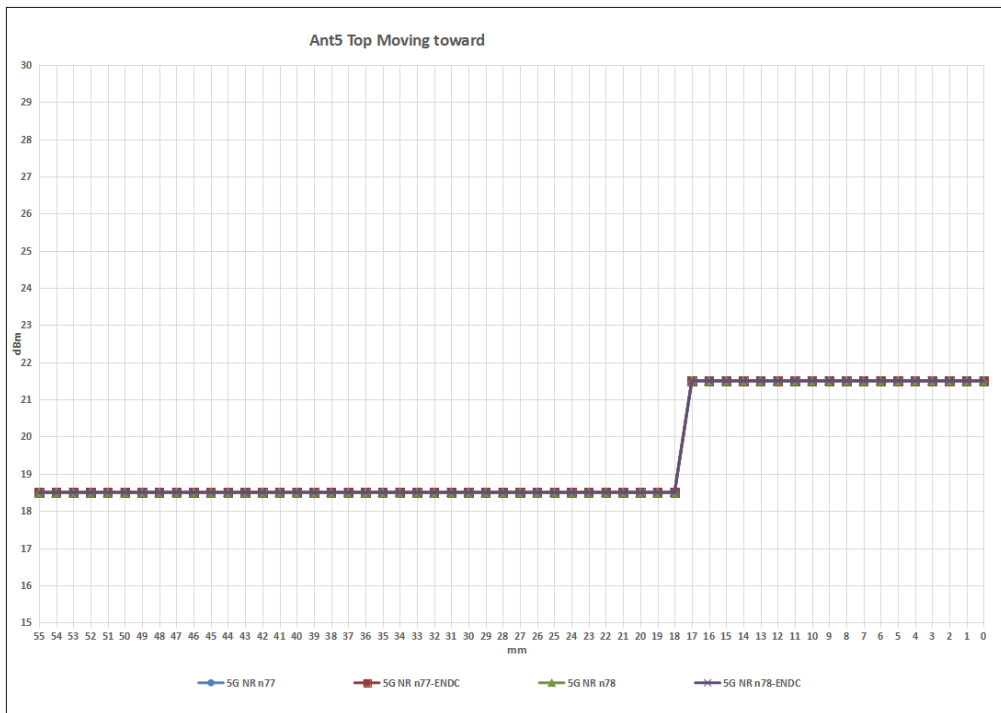
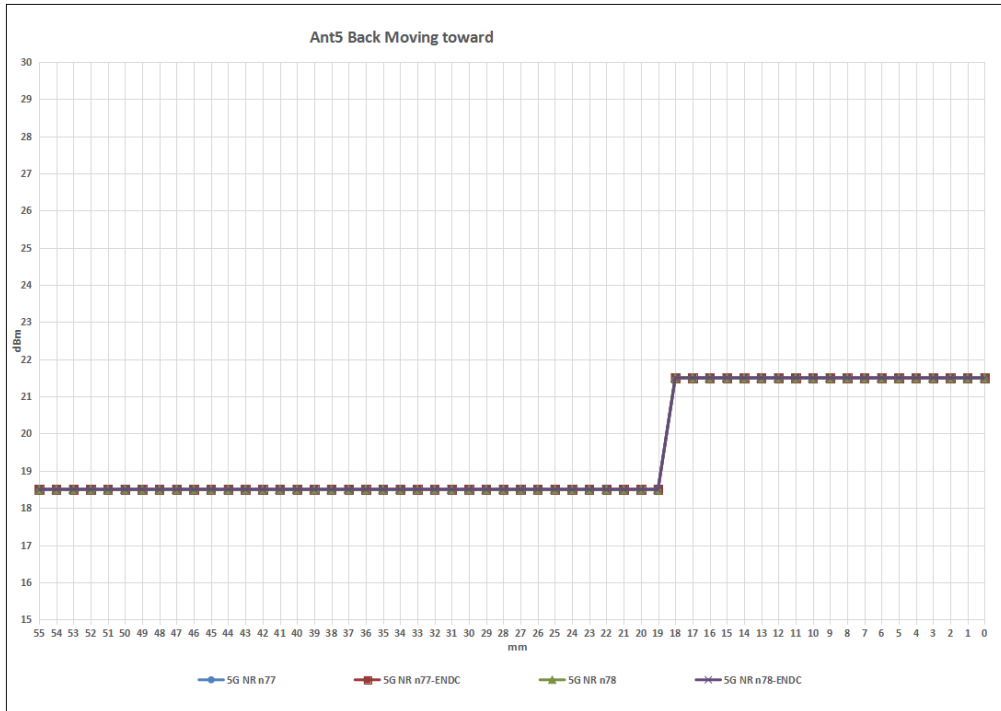


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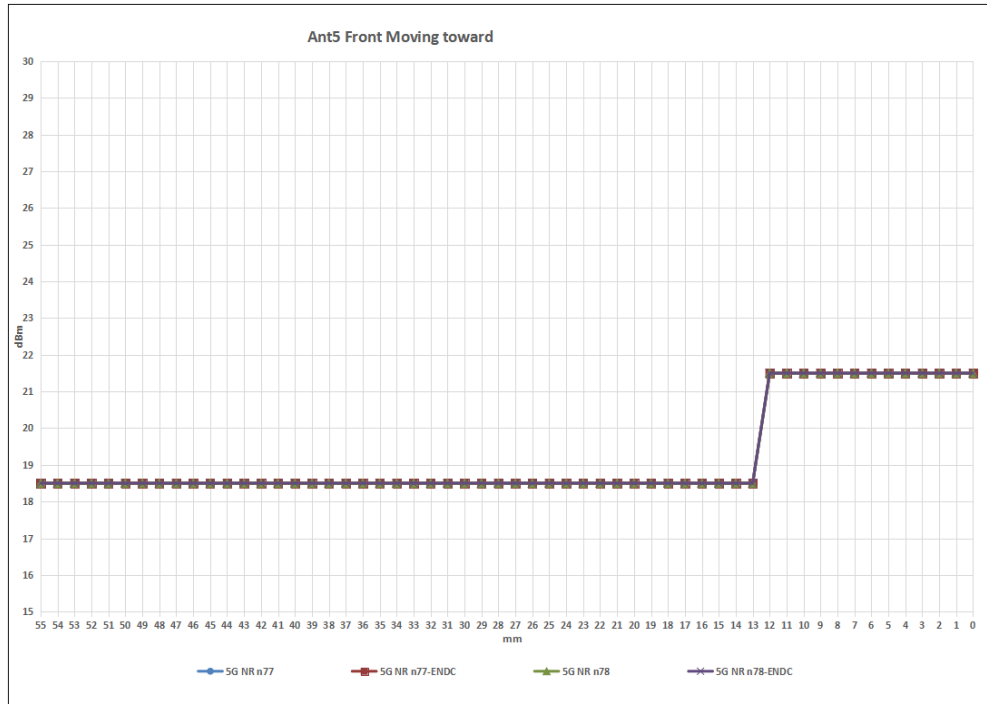
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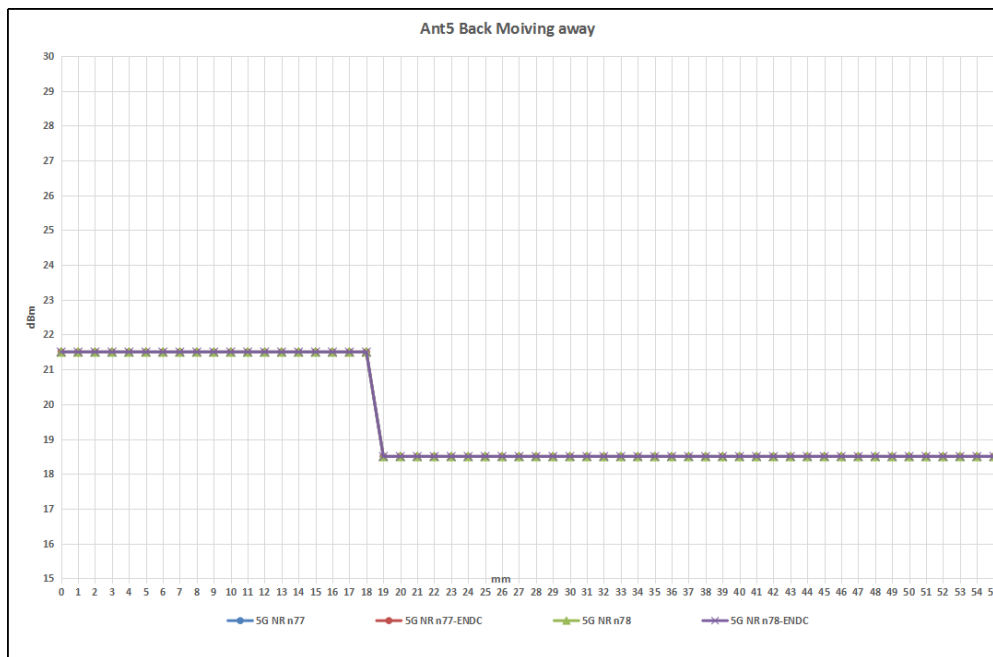
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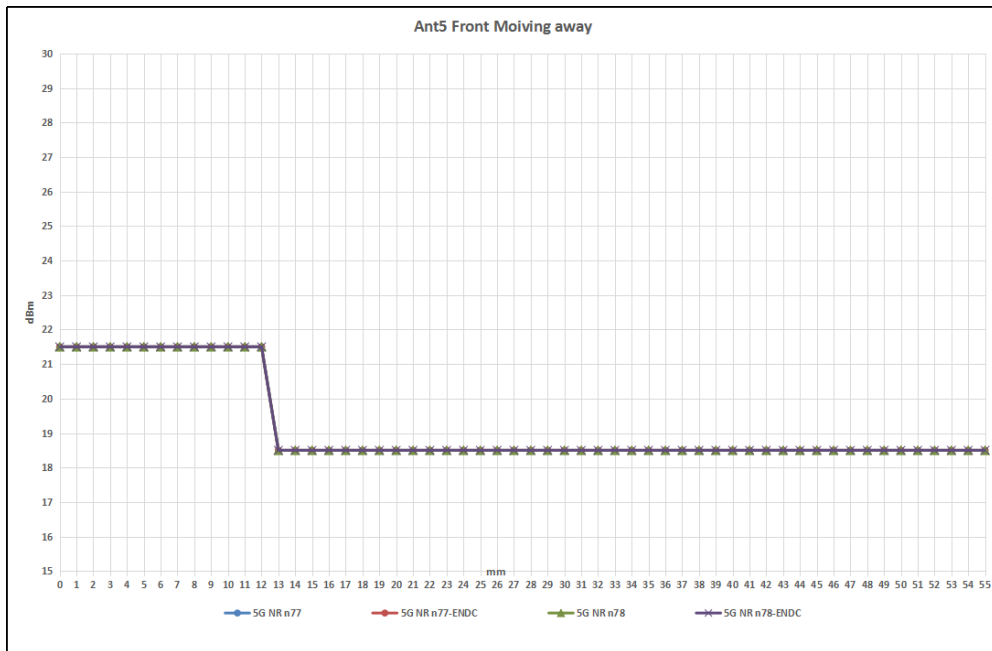
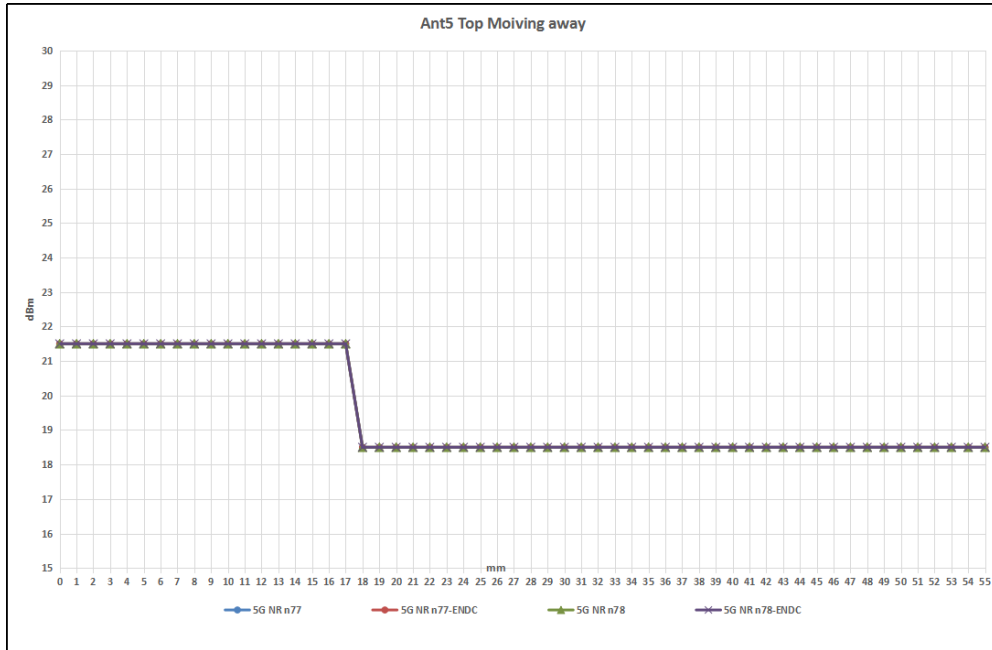
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Proximity sensor coverage

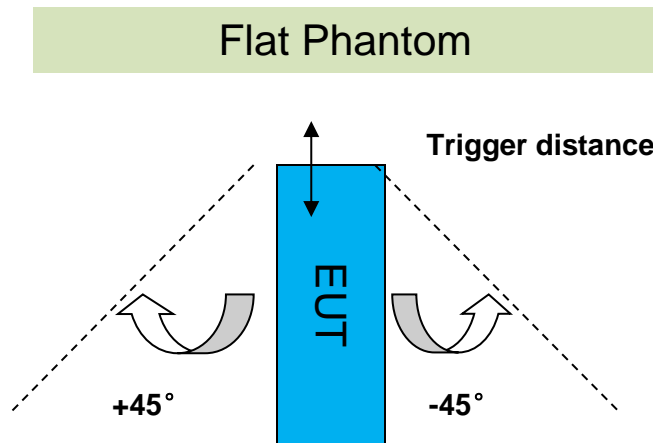
If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage testing, 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°
Ant0/5	Bottom side:16mm	Bottom side:16mm	on	on	on	on	on	on	on	on	on	on	on
Ant1/3/4/6/8/9	Top side:6mm	Top side:6mm	on	on	on	on	on	on	on	on	on	on	on



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7 SAR System Verification Procedure

7.1 Tissue Simulate Liquid

7.1.1 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		
HSL13MHz is composed of the following ingredients: Water: 50-90% Non-ionic detergents: 5-50% NaCl: 0-2% Preservative: 0.03-0.1%					
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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7.1.2 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 $22\pm 2^{\circ}\text{C}$.

Measurement for Tissue Simulate Liquid							
Tissue Type	Measured Frequency (MHz)	Target Tissue ($\pm 5\%$)		Measured Tissue		Liquid Temp. ($^{\circ}\text{C}$)	Test Date
		ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$		
13 Head	13	55.00	0.75	54.221	0.734	22.5	2023/12/12
750 Head	750	41.9 (39.81~44)	0.89 (0.85~0.94)	43.800	0.880	22.7	2023/11/22
750 Head	750	41.9 (39.81~44)	0.89 (0.85~0.94)	42.833	0.882	22.7	2023/11/26
835 Head	835	41.5 (39.43~43.58)	0.90 (0.86~0.95)	43.400	0.945	22.8	2023/11/24
835 Head	835	41.5 (39.43~43.58)	0.90 (0.86~0.95)	41.629	0.945	22.8	2023/11/28
1750 Head	1750	40.1 (38.10~42.11)	1.37 (1.30~1.44)	40.119	1.323	22.7	2023/11/30
1950 Head	1950	40.0 (38.00~42.00)	1.40 (1.33~1.47)	38.753	1.462	22.9	2023/12/2
2450 Head	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	38.433	1.765	22.7	2023/12/13
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	37.566	1.953	22.6	2023/12/4
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	38.877	1.971	22.6	2023/12/6
3500 Head	3500	37.9 (36.01~39.8)	2.91 (2.76~3.06)	37.448	2.836	22.5	2023/12/8
3900 Head	3900	37.5 (35.63~39.38)	3.32 (3.15~3.49)	36.282	3.265	22.9	2023/12/10
5250 Head	5250	35.9 (34.11~37.70)	4.66 (4.47~4.95)	35.486	4.707	22.8	2023/12/16
5600 Head	5600	35.5 (33.73~37.30)	5.07 (4.82~5.32)	34.813	5.180	22.8	2023/12/16
5750 Head	5750	35.4 (33.63~37.17)	5.22 (4.96~5.48)	34.442	5.363	22.8	2023/12/16

Table 4: Measurement result of Tissue electric parameters.



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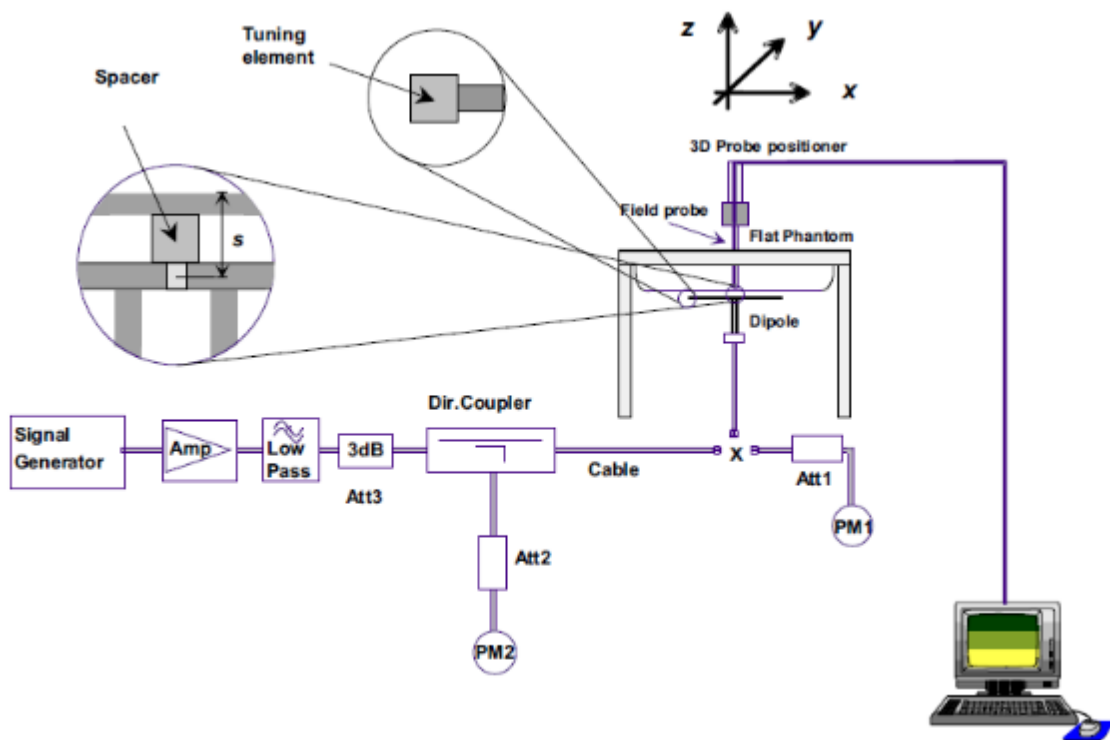
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7.2 SAR System Check

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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7.2.1 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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7.2.2 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)	Test Date
		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)		
CLA13	Head	0.111	0.072	0.44	0.29	0.42	0.27	5.46%	8.27%	22.5	2023/12/12
D750V3	Head	2.13	1.4	8.52	5.60	8.48	5.56	0.47%	0.72%	22.7	2023/11/22
D750V3	Head	2.09	1.37	8.36	5.48	8.48	5.56	-1.42%	-1.44%	22.7	2023/11/26
D835V2	Head	2.45	1.59	9.80	6.36	9.52	6.17	2.94%	3.08%	22.8	2023/11/24
D835V2	Head	2.46	1.62	9.84	6.48	9.52	6.17	3.36%	5.02%	22.8	2023/11/28
D1750V2	Head	8.52	4.52	34.08	18.08	35.30	18.70	-3.46%	-3.32%	22.7	2023/11/30
D1950V2	Head	9.92	5.15	39.68	20.60	39.70	20.30	-0.05%	1.48%	22.9	2023/12/2
D2450V2	Head	12.50	5.58	50.00	22.32	52.20	24.50	-4.21%	-8.90%	22.7	2023/12/13
D2600V2	Head	13.50	6.09	54.00	24.36	57.10	25.40	-5.43%	-4.09%	22.6	2023/12/4
D2600V2	Head	13.60	6.15	54.40	24.60	57.10	25.40	-4.73%	-3.15%	22.6	2023/12/6
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)	Test Date
		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)	6.22	2.37	62.20	23.70	66.60	24.90	-6.61%	-4.82%	22.5	2023/12/8
D3900V2	Head(3.9GHz)	6.87	2.38	68.70	23.80	69.70	24.00	-1.43%	-0.83%	22.9	2023/12/10
D5GHzV2	Head(5.25GHz)	7.20	2.05	72.00	20.50	78.00	21.80	-7.69%	-5.96%	22.8	2023/12/16
	Head(5.6GHz)	8.15	2.30	81.50	23.00	79.90	22.50	2.00%	2.22%	22.8	2023/12/16
	Head(5.75GHz)	8.26	2.31	82.60	23.10	76.40	21.20	8.12%	8.96%	22.8	2023/12/16

Table 5: SAR System Check Result.

7.2.3 Detailed System Check Results

Please see the Appendix A



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8 Test Configuration

8.1 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.

8.2 Operation Configurations

8.2.1 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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8.2.2 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⁾ (dB) ^c	MP R ⁽³⁾ (dB) ^c	AG ⁽⁴⁾ Inde ^x	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: 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, 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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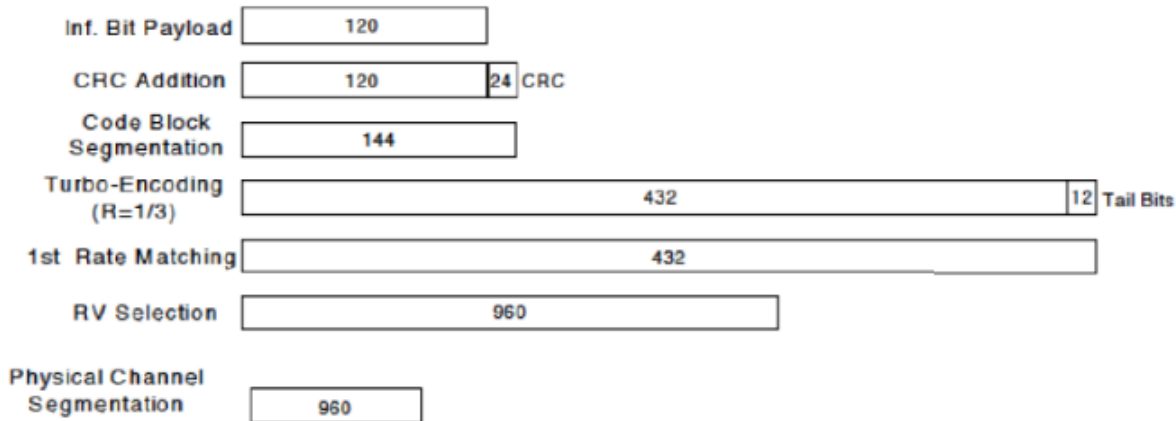


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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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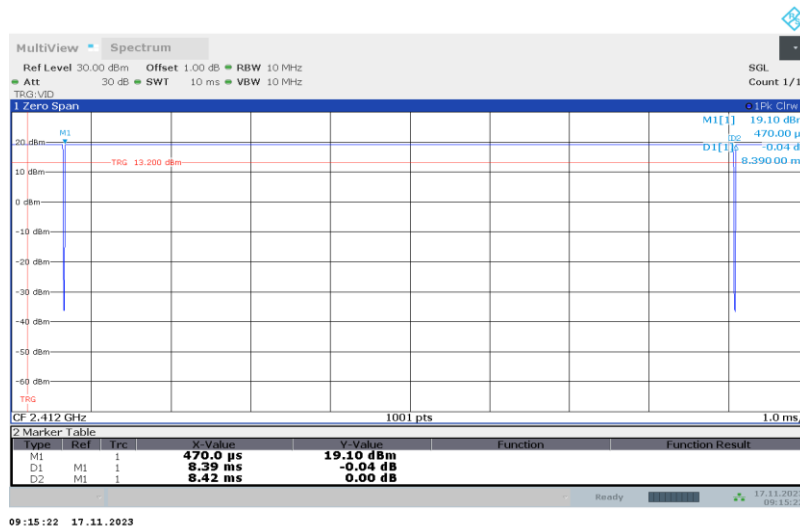
8.2.3 WiFi Test Configuration

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.

8.2.3.1 Duty cycle

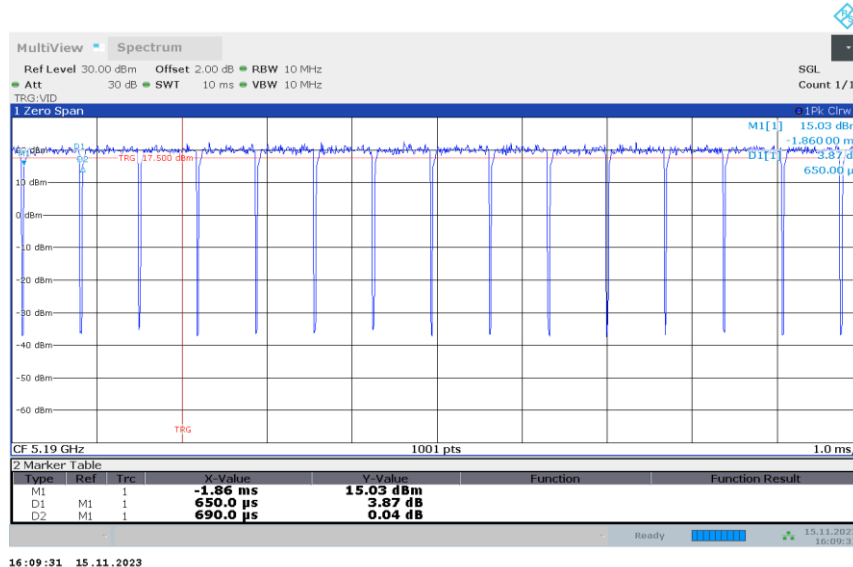
Wi-Fi 2.4GHz 802.11b:

Duty cycle=99.64%



Wi-Fi 5GHz 802.11ac-40M:

Duty cycle=94.20%



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8.2.3.2 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.

8.2.3.3 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.

8.2.3.4 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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8.2.3.5 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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8.2.4 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.

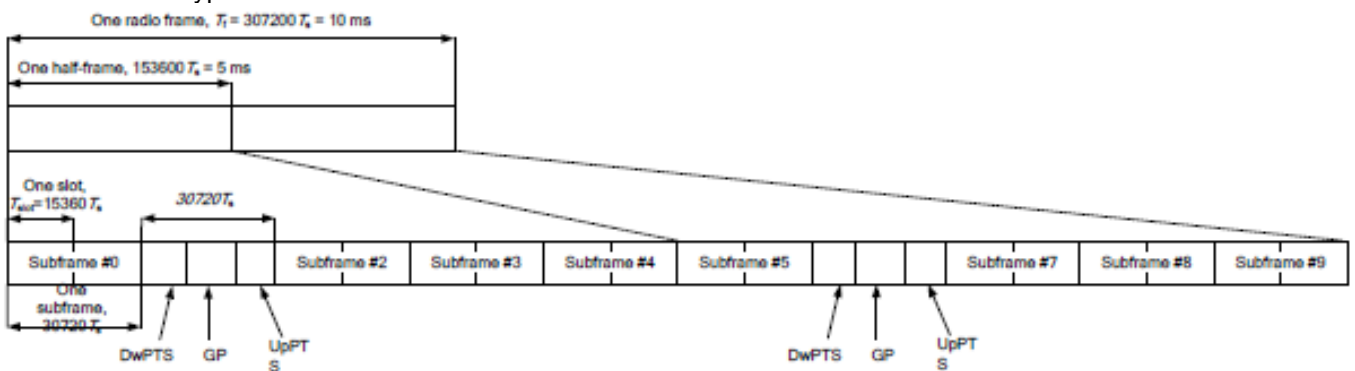
TDD LTE test consideration

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.

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
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3

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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8.2.5 NR Band Test Configuration

1. NR Band n5/7/66/38/41/77/78 support SA mode and n5/7/66/38/41/77/78 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		n5	n7		n38	n41	n66	n78
		Ant1	Ant1	Ant4	Ant1	Ant1	Ant1	Ant5
LTE Band 2	Ant3	x	x	x	x	x	x	√
LTE Band 4	Ant3	x	√	x	√	√	x	√
LTE Band 5	Ant1	x	x	√	x	x	x	√
LTE Band 7	Ant3	x	x	x	x	x	√	√
	Ant4	√	x	x	x	x	x	x
LTE Band 26	Ant1	x	x	x	x	x	x	√
LTE Band 38	Ant3	x	x	x	x	x	x	√
LTE Band 41	Ant3	x	x	x	x	√	x	√
LTE Band 66	Ant3	x	√	x	√	√	√	√



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

Band			n5	n7	n38	n41	n66	n77 CP3	n77 CP2	n78 CP3	n78 CP2	
Modulation	DFT-s-OFDM	PI/2 BPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	CP-OFDM	256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Duty Cycle			100%	100%	100%	100%	100%	100%	50%	100%	50%	

Band	SCS	Bandwidth														
		5Mhz	10Mhz	15Mhz	20Mhz	25Mhz	30Mhz	35Mhz	40Mhz	45Mhz	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	N/A	N/A
	30KHZ	N/A	Yes	Yes	Yes	N/A	N/A	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	Yes	N/A	N/A	N/A	N/A	N/A
	30KHZ	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	N/A	N/A	N/A	N/A	N/A
N38	15KHZ	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30KHZ	N/A	Yes	Yes	Yes	Yes	Yes	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N41	15KHZ	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A
	30KHZ	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
N66	15KHZ	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A
	30KHZ	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A
n77	30KHZ	N/A	Yes	Yes	Yes	Yes	Yes	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes
n78	30KHZ	N/A	Yes	Yes	Yes	Yes	Yes	N/A	Yes	N/A	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	
	256 QAM		≤ 4.5	
CP-OFDM	QPSK	≤ 3		≤ 1.5
	16 QAM	≤ 3		≤ 2
	64 QAM		≤ 3.5	
	256 QAM		≤ 6.5	

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

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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9 Test Result

9.1 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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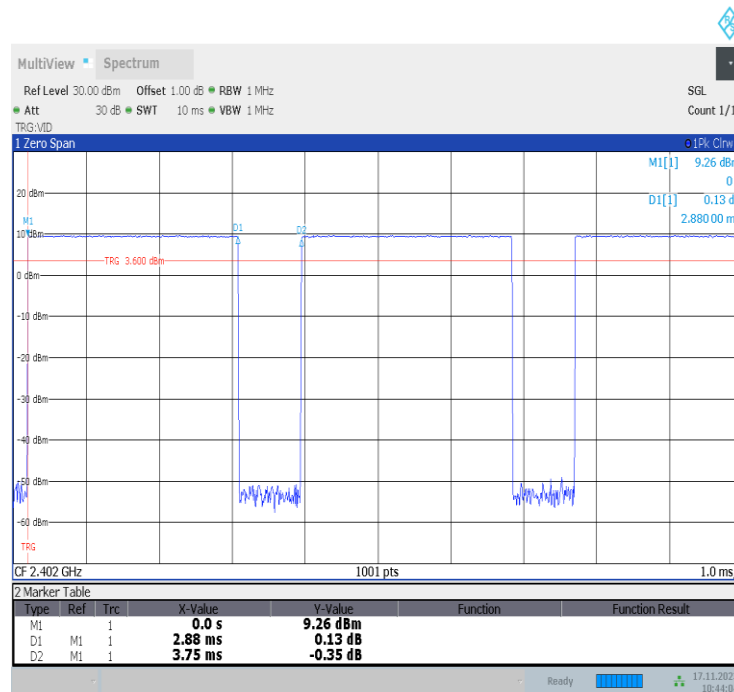
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- 1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.
- 2) When the same highest maximum 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.
BT DH5 Duty Cycle=76.80%



10:44:04 17.11.2023



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9.2 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is select the worst presentation of the original report SEWM2304000137RG09 and this report. 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.

NFC:

- 1) NFC SAR is measured for all edges and surfaces of the device.
- 2) NFC 13.56MHz antenna port is not available on the device to support conducted power measurement, therefore the measured results are referred to as reported SAR.
- 3) NFC SAR test tissue-simulating liquid parameter refer to IEC/IEEE 62209-1528 2020.



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9.2.1 SAR Result of GSM850

GSM850 SAR Test Record										
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	GPRS 3TS	190/836.6	1:2.77	0.178	0.01	28.63	29.50	1.222	0.217	22.8
Left tilted	GPRS 3TS	190/836.6	1:2.77	0.109	0.12	28.63	29.50	1.222	0.133	22.8
Right cheek	GPRS 3TS	190/836.6	1:2.77	0.189	0.18	28.63	29.50	1.222	0.231	22.8
Right tilted	GPRS 3TS	190/836.6	1:2.77	0.114	-0.06	28.63	29.50	1.222	0.139	22.8
Hotspot Test data(Separate 10mm)										
Front side	GPRS 3TS	190/836.6	1:2.77	0.168	0.12	28.63	29.50	1.222	0.205	22.8
Back side	GPRS 3TS	190/836.6	1:2.77	0.253	-0.03	28.63	29.50	1.222	0.309	22.8
Left side	GPRS 3TS	190/836.6	1:2.77	0.104	0.00	28.63	29.50	1.222	0.127	22.8
Right side	GPRS 3TS	190/836.6	1:2.77	0.177	-0.01	28.63	29.50	1.222	0.216	22.8
Bottom side	GPRS 3TS	190/836.6	1:2.77	0.152	0.19	28.63	29.50	1.222	0.186	22.8
Ant 4 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	GPRS 3TS	190/836.6	1:2.77	0.535	0.13	28.81	29.50	1.172	0.627	22.8
Left tilted	GPRS 3TS	190/836.6	1:2.77	0.493	-0.18	28.81	29.50	1.172	0.578	22.8
Right cheek	GPRS 3TS	190/836.6	1:2.77	0.582	-0.04	28.81	29.50	1.172	0.682	22.8
Right tilted	GPRS 3TS	190/836.6	1:2.77	0.491	-0.09	28.81	29.50	1.172	0.576	22.8
Hotspot Test data(Separate 10mm)										
Front side	GPRS 3TS	190/836.6	1:2.77	0.128	0.04	28.81	29.50	1.172	0.150	22.8
Back side	GPRS 3TS	190/836.6	1:2.77	0.238	-0.09	28.81	29.50	1.172	0.279	22.8
Left side	GPRS 3TS	190/836.6	1:2.77	0.064	-0.01	28.81	29.50	1.172	0.075	22.8
Top side	GPRS 3TS	190/836.6	1:2.77	0.129	-0.19	28.81	29.50	1.172	0.151	22.8

Table 11: SAR of GSM850 for Head and Body.



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9.2.2 SAR Result of GSM1900

GSM1900 SAR Test Record										
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	GPRS 3TS	661/1880	1:2.77	0.103	0.06	25.52	26.50	1.253	0.129	22.9
Left tilted	GPRS 3TS	661/1880	1:2.77	0.082	0.19	25.52	26.50	1.253	0.103	22.9
Right cheek	GPRS 3TS	661/1880	1:2.77	0.080	0.10	25.52	26.50	1.253	0.100	22.9
Right tilted	GPRS 3TS	661/1880	1:2.77	0.067	0.15	25.52	26.50	1.253	0.084	22.9
Hotspot (Sensor off) Test data										
Front side-10mm	GPRS 3TS	661/1880	1:2.77	0.301	-0.17	25.52	26.50	1.253	0.377	22.9
Back side-19mm	GPRS 3TS	661/1880	1:2.77	0.089	-0.19	25.52	26.50	1.253	0.112	22.9
Left side-10mm	GPRS 3TS	661/1880	1:2.77	0.167	0.05	25.52	26.50	1.253	0.209	22.9
Right side-10mm	GPRS 3TS	661/1880	1:2.77	0.061	0.08	25.52	26.50	1.253	0.076	22.9
Bottom side-19mm	GPRS 3TS	661/1880	1:2.77	0.180	0.05	25.52	26.50	1.253	0.226	22.9
Hotspot (Sensor on) Test data(Separate 10mm)										
Back side	GPRS 3TS	661/1880	1:2.77	0.289	-0.04	24.35	25.50	1.303	0.377	22.9
Bottom side	GPRS 3TS	661/1880	1:2.77	0.454	-0.11	24.35	25.50	1.303	0.592	22.9
Ant 4 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	GPRS 3TS	661/1880	1:2.77	0.475	0.17	21.24	22.00	1.191	0.566	22.9
Left tilted	GPRS 3TS	661/1880	1:2.77	0.580	0.02	21.24	22.00	1.191	0.691	22.9
Right cheek	GPRS 3TS	661/1880	1:2.77	0.616	-0.08	21.24	22.00	1.191	0.734	22.9
Right tilted	GPRS 3TS	661/1880	1:2.77	0.807	-0.11	21.24	22.00	1.191	0.961	22.9
Right tilted	GPRS 3TS	512/1850.2	1:2.77	0.596	0.08	21.16	22.00	1.213	0.723	22.9
Right tilted	GPRS 3TS	810/1909.8	1:2.77	0.854	0.02	21.17	22.00	1.211	1.034	22.9
Right tilted - Repeat SAR	GPRS 3TS	810/1909.8	1:2.77	0.851	0.01	21.17	22.00	1.211	1.030	22.9
Hotspot (Sensor off) Test data										
Front side-10mm	GPRS 3TS	661/1880	1:2.77	0.353	0.15	25.52	26.50	1.253	0.442	22.9
Back side-18mm	GPRS 3TS	661/1880	1:2.77	0.276	0.19	25.52	26.50	1.253	0.346	22.9
Left side-10mm	GPRS 3TS	661/1880	1:2.77	0.072	-0.08	25.52	26.50	1.253	0.090	22.9
Top side-17mm	GPRS 3TS	661/1880	1:2.77	0.347	0.11	25.52	26.50	1.253	0.435	22.9
Hotspot (Sensor on) Test data(Separate 10mm)										
Back side	GPRS 3TS	661/1880	1:2.77	0.300	-0.06	21.62	22.50	1.225	0.367	22.9
Top side	GPRS 3TS	661/1880	1:2.77	0.388	-0.11	21.62	22.50	1.225	0.475	22.9

Table 12: SAR of GSM1900 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 tilted	810/1909.8	0.854	0.851	1.003525264	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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9.2.3 SAR Result of WCDMA Band II

W B2 SAR Test Record										
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	9400/1880	1:1	0.239	-0.07	24.27	25.00	1.183	0.283	22.9
Left tilted	RMC	9400/1880	1:1	0.193	-0.08	24.27	25.00	1.183	0.228	22.9
Right cheek	RMC	9400/1880	1:1	0.195	0.19	24.27	25.00	1.183	0.231	22.9
Right tilted	RMC	9400/1880	1:1	0.145	-0.19	24.27	25.00	1.183	0.172	22.9
Hotspot (Sensor off) Test data										
Front side-10mm	RMC	9400/1880	1:1	0.674	-0.12	24.27	25.00	1.183	0.797	22.9
Back side-19mm	RMC	9400/1880	1:1	0.283	0.04	24.27	25.00	1.183	0.335	22.9
Left side-10mm	RMC	9400/1880	1:1	0.440	0.14	24.27	25.00	1.183	0.521	22.9
Right side-10mm	RMC	9400/1880	1:1	0.107	-0.15	24.27	25.00	1.183	0.127	22.9
Bottom side-19mm	RMC	9400/1880	1:1	0.419	0.19	24.27	25.00	1.183	0.496	22.9
Hotspot (Sensor on) Test data(Separate 10mm)										
Back side	RMC	9400/1880	1:1	0.403	0.01	21.24	22.00	1.191	0.480	22.9
Bottom side	RMC	9400/1880	1:1	0.675	-0.01	21.24	22.00	1.191	0.804	22.9
Bottom side	RMC	9262/1852.4	1:1	0.717	-0.15	21.14	22.00	1.219	0.874	22.9
Bottom side	RMC	9538/1907.6	1:1	0.600	-0.10	21.05	22.00	1.245	0.747	22.9
Ant 4 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	0.486	0.00	16.62	17.50	1.225	0.595	22.9
Left tilted	RMC	9400/1880	1:1	0.587	-0.16	16.62	17.50	1.225	0.719	22.9
Right cheek	RMC	9400/1880	1:1	0.650	-0.11	16.62	17.50	1.225	0.796	22.9
Right tilted	RMC	9400/1880	1:1	0.788	-0.07	16.62	17.50	1.225	0.965	22.9
Right tilted	RMC	9262/1852.4	1:1	0.694	-0.13	16.58	17.50	1.236	0.858	22.9
Right tilted	RMC	9538/1907.6	1:1	0.881	-0.15	16.57	17.50	1.239	1.091	22.9
Right tilted - Repeat SAR	RMC	9538/1907.6	1:1	0.878	0.06	16.57	17.50	1.239	1.088	22.9
Hotspot (Sensor off) Test data										
Front side-10mm	RMC	9400/1880	1:1	0.757	-0.07	23.62	24.50	1.225	0.927	22.9
Front side-10mm	RMC	9262/1852.4	1:1	0.674	-0.15	23.51	24.50	1.256	0.847	22.9
Front side-10mm	RMC	9538/1907.6	1:1	0.868	0.18	23.52	24.50	1.253	1.088	22.9
Front side-10mm - Repeat SAR	RMC	9538/1907.6	1:1	0.866	0.05	23.52	24.50	1.253	1.085	22.9
Back side-18mm	RMC	9400/1880	1:1	0.507	0.09	23.62	24.50	1.225	0.621	22.9
Left side-10mm	RMC	9400/1880	1:1	0.156	-0.18	23.62	24.50	1.225	0.191	22.9
Top side-17mm	RMC	9400/1880	1:1	0.686	0.09	23.62	24.50	1.225	0.840	22.9
Top side-17mm	RMC	9262/1852.4	1:1	0.621	0.12	23.51	24.50	1.256	0.780	22.9
Top side-17mm	RMC	9538/1907.6	1:1	0.766	-0.11	23.52	24.50	1.253	0.960	22.9
Hotspot (Sensor on) Test data(Separate 10mm)										
Back side	RMC	9400/1880	1:1	0.439	-0.12	18.17	19.00	1.211	0.531	22.9
Top side	RMC	9400/1880	1:1	0.557	0.16	18.17	19.00	1.211	0.674	22.9

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



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Test Position	Channel/ Frequency	Measured SAR (1g)	1st Repeated	Ratio	2nd Repeated	3rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right tilted	9538/1907.6	0.881	0.878	1.003416856	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

9.2.4 SAR Result of WCDMA Band IV

W B4 SAR Test Record										
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	1412/1732.4	1:1	0.131	-0.01	24.23	25.00	1.194	0.156	22.7
Left tilted	RMC	1412/1732.4	1:1	0.117	0.01	24.23	25.00	1.194	0.140	22.7
Right cheek	RMC	1412/1732.4	1:1	0.159	-0.16	24.23	25.00	1.194	0.190	22.7
Right tilted	RMC	1412/1732.4	1:1	0.111	-0.04	24.23	25.00	1.194	0.133	22.7
Hotspot (Sensor off) Test data										
Front side-10mm	RMC	1412/1732.4	1:1	0.462	-0.17	24.23	25.00	1.194	0.552	22.7
Back side-19mm	RMC	1412/1732.4	1:1	0.252	-0.19	24.23	25.00	1.194	0.301	22.7
Left side-10mm	RMC	1412/1732.4	1:1	0.206	-0.02	24.23	25.00	1.194	0.246	22.7
Right side-10mm	RMC	1412/1732.4	1:1	0.113	-0.11	24.23	25.00	1.194	0.135	22.7
Bottom side-19mm	RMC	1412/1732.4	1:1	0.488	-0.02	24.23	25.00	1.194	0.583	22.7
Hotspot (Sensor on) Test data(Separate 10mm)										
Back side	RMC	1412/1732.4	1:1	0.330	0.12	20.86	21.50	1.159	0.382	22.7
Bottom side	RMC	1412/1732.4	1:1	0.647	-0.03	20.86	21.50	1.159	0.750	22.7
Ant 4 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	0.493	-0.18	16.14	17.00	1.219	0.601	22.7
Left tilted	RMC	1412/1732.4	1:1	0.555	0.16	16.14	17.00	1.219	0.677	22.7
Right cheek	RMC	1412/1732.4	1:1	0.678	-0.08	16.14	17.00	1.219	0.826	22.7
Right cheek	RMC	1312/1712.4	1:1	0.718	0.15	15.93	17.00	1.279	0.919	22.7
Right cheek	RMC	1513/1752.6	1:1	0.621	0.03	15.90	17.00	1.288	0.800	22.7
Right tilted	RMC	1412/1732.4	1:1	0.769	0.12	16.14	17.00	1.219	0.937	22.7
Right tilted	RMC	1312/1712.4	1:1	0.815	-0.13	15.93	17.00	1.279	1.043	22.7
Right tilted - Repeat SAR	RMC	1312/1712.4	1:1	0.814	0.11	15.93	17.00	1.279	1.041	22.7
Right tilted	RMC	1513/1752.6	1:1	0.695	-0.19	15.90	17.00	1.288	0.895	22.7
Hotspot (Sensor off) Test data										
Front side-12mm	RMC	1412/1732.4	1:1	0.696	-0.08	23.52	24.50	1.253	0.872	22.7
Front side-12mm	RMC	1312/1712.4	1:1	0.736	0.18	23.35	24.50	1.303	0.959	22.7
Front side-12mm	RMC	1513/1752.6	1:1	0.628	0.03	23.36	24.50	1.300	0.817	22.7



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Back side-18mm	RMC	1412/1732.4	1:1	0.441	0.01	23.52	24.50	1.253	0.553	22.7
Left side-10mm	RMC	1412/1732.4	1:1	0.134	0.17	23.52	24.50	1.253	0.168	22.7
Top side-17mm	RMC	1412/1732.4	1:1	0.649	0.13	23.52	24.50	1.253	0.813	22.7
Top side-17mm	RMC	1312/1712.4	1:1	0.688	-0.09	23.35	24.50	1.303	0.897	22.7
Top side-17mm	RMC	1513/1752.6	1:1	0.570	0.09	23.36	24.50	1.300	0.741	22.7
Hotspot (Sensor on) Test data(Separate 10mm)										
Front side	RMC	1412/1732.4	1:1	0.419	0.00	20.35	21.00	1.161	0.487	22.7
Back side	RMC	1412/1732.4	1:1	0.690	-0.15	20.35	21.00	1.161	0.801	22.7
Back side	RMC	1312/1712.4	1:1	0.761	-0.11	20.30	21.00	1.175	0.894	22.7
Back side	RMC	1513/1752.6	1:1	0.609	-0.07	20.17	21.00	1.211	0.737	22.7
Top side	RMC	1412/1732.4	1:1	0.857	0.07	20.35	21.00	1.161	0.995	22.7
Top side	RMC	1312/1712.4	1:1	0.919	0.18	20.30	21.00	1.175	1.080	22.7
Top side - Repeat SAR	RMC	1312/1712.4	1:1	0.917	0.08	20.30	21.00	1.175	1.077	22.7
Top side	RMC	1513/1752.6	1:1	0.773	0.19	20.17	21.00	1.211	0.936	22.7

Table 14: SAR of WCDMA Band IV 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)
Top side	1312/1712.4	0.919	0.917	1.002181025	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

9.2.5 SAR Result of WCDMA Band V

W B5 SAR Test Record										
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	0.176	-0.16	24.48	25.00	1.127	0.198	22.8
Left tilted	RMC	4182/836.4	1:1	0.096	-0.01	24.48	25.00	1.127	0.108	22.8
Right cheek	RMC	4182/836.4	1:1	0.197	-0.07	24.48	25.00	1.127	0.222	22.8
Right tilted	RMC	4182/836.4	1:1	0.113	-0.04	24.48	25.00	1.127	0.127	22.8
Hotspot Test data(Separate 10mm)										
Front side	RMC	4182/836.4	1:1	0.199	0.08	24.48	25.00	1.127	0.224	22.8
Back side	RMC	4182/836.4	1:1	0.322	-0.01	24.48	25.00	1.127	0.363	22.8
Left side	RMC	4182/836.4	1:1	0.099	-0.04	24.48	25.00	1.127	0.112	22.8
Right side	RMC	4182/836.4	1:1	0.167	-0.14	24.48	25.00	1.127	0.188	22.8
Bottom side	RMC	4182/836.4	1:1	0.250	0.18	24.48	25.00	1.127	0.282	22.8
Ant 4 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	0.704	0.06	24.20	25.00	1.202	0.846	22.8



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Left cheek	RMC	4132/826.4	1:1	0.710	-0.11	24.15	25.00	1.216	0.863	22.8
Left cheek	RMC	4233/846.6	1:1	0.800	-0.06	24.18	25.00	1.208	0.966	22.8
Left cheek - Repeat SAR	RMC	4233/846.6	1:1	0.796	0.01	24.18	25.00	1.208	0.961	22.8
Left tilted	RMC	4182/836.4	1:1	0.566	0.14	24.20	25.00	1.202	0.680	22.8
Right cheek	RMC	4182/836.4	1:1	0.543	0.02	24.20	25.00	1.202	0.653	22.8
Right tilted	RMC	4182/836.4	1:1	0.486	-0.16	24.20	25.00	1.202	0.584	22.8
Hotspot Test data(Separate 10mm)										
Front side	RMC	4182/836.4	1:1	0.184	0.10	24.20	25.00	1.202	0.221	22.8
Back side	RMC	4182/836.4	1:1	0.301	0.14	24.20	25.00	1.202	0.362	22.8
Left side	RMC	4182/836.4	1:1	0.089	0.12	24.20	25.00	1.202	0.107	22.8
Top side	RMC	4182/836.4	1:1	0.186	0.18	24.20	25.00	1.202	0.224	22.8

Table 15: SAR of WCDMA Band V 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)
Left cheek	4233/846.6	0.8	0.796	1.005025126	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

9.2.6 SAR Result of LTE Band 2

LTE Band 2 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)	Scale d factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	18900/1880	1:1	0.259	-0.05	24.64	25.50	1.219	0.316	22.9
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.211	-0.18	24.64	25.50	1.219	0.257	22.9
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.206	-0.07	24.64	25.50	1.219	0.251	22.9
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.195	0.18	24.64	25.50	1.219	0.238	22.9
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	18900/1880	1:1	0.210	-0.19	23.39	24.50	1.291	0.271	22.9
Left tilted	20	QPSK 50_0	18900/1880	1:1	0.174	0.13	23.39	24.50	1.291	0.225	22.9
Right cheek	20	QPSK 50_0	18900/1880	1:1	0.166	0.03	23.39	24.50	1.291	0.214	22.9
Right tilted	20	QPSK 50_0	18900/1880	1:1	0.157	-0.02	23.39	24.50	1.291	0.203	22.9
Hotspot (Sensor off) Test data(1RB)											
Front side-10mm	20	QPSK 1_0	18900/1880	1:1	0.706	0.04	24.64	25.50	1.219	0.861	22.9
Front side-10mm	20	QPSK 1_0	18700/1860	1:1	0.662	0.13	24.45	25.50	1.274	0.843	22.9
Front side-10mm	20	QPSK 1_0	19100/1900	1:1	0.694	-0.17	24.58	25.50	1.236	0.858	22.9
Back side-19mm	20	QPSK 1_0	18900/1880	1:1	0.348	0.17	24.64	25.50	1.219	0.424	22.9
Left side-10mm	20	QPSK 1_0	18900/1880	1:1	0.421	-0.16	24.64	25.50	1.219	0.513	22.9
Right side-10mm	20	QPSK 1_0	18900/1880	1:1	0.169	0.07	24.64	25.50	1.219	0.206	22.9
Bottom side-19mm	20	QPSK 1_0	18900/1880	1:1	0.521	0.04	24.64	25.50	1.219	0.635	22.9



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Hotspot (Sensor off) Test data(50%RB)											
Front side-10mm	20	QPSK 50_0	18900/1880	1:1	0.643	-0.19	23.39	24.50	1.291	0.830	22.9
Front side-10mm	20	QPSK 50_0	18700/1860	1:1	0.618	0.08	23.47	24.50	1.268	0.783	22.9
Front side-10mm	20	QPSK 50_0	19100/1900	1:1	0.623	0.08	23.56	24.50	1.242	0.774	22.9
Back side-19mm	20	QPSK 50_0	18900/1880	1:1	0.299	0.03	23.39	24.50	1.291	0.386	22.9
Left side-10mm	20	QPSK 50_0	18900/1880	1:1	0.346	0.17	23.39	24.50	1.291	0.447	22.9
Right side-10mm	20	QPSK 50_0	18900/1880	1:1	0.129	-0.07	23.39	24.50	1.291	0.167	22.9
Bottom side-19mm	20	QPSK 50_0	18900/1880	1:1	0.434	-0.14	23.39	24.50	1.291	0.560	22.9
Hotspot (Sensor off) Test data(100%RB)											
Front side-10mm	20	QPSK 100_0	18900/1880	1:1	0.628	-0.16	23.52	24.50	1.253	0.787	22.9
Hptspot (Sensor on) Test data(Separate 10mm 1RB)											
Back side	20	QPSK 1_0	18900/1880	1:1	0.426	0.00	21.26	22.00	1.186	0.505	22.9
Bottom side	20	QPSK 1_0	18900/1880	1:1	0.664	-0.04	21.26	22.00	1.186	0.787	22.9
Hptspot (Sensor on) Test data(Separate 10mm 50%RB)											
Back side	20	QPSK 50_0	18900/1880	1:1	0.408	0.08	21.23	22.00	1.194	0.487	22.9
Bottom side	20	QPSK 50_0	18900/1880	1:1	0.627	0.12	21.23	22.00	1.194	0.749	22.9
Ant 4 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	18900/1880	1:1	0.415	-0.09	16.78	17.50	1.180	0.490	22.9
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.494	-0.02	16.78	17.50	1.180	0.583	22.9
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.603	0.00	16.78	17.50	1.180	0.712	22.9
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.719	0.00	16.78	17.50	1.180	0.849	22.9
Right tilted	20	QPSK 1_0	18700/1860	1:1	0.660	-0.14	16.62	17.50	1.225	0.808	22.9
Right tilted	20	QPSK 1_0	19100/1900	1:1	0.797	-0.17	16.64	17.50	1.219	0.972	22.9
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	18900/1880	1:1	0.421	0.17	16.66	17.50	1.213	0.511	22.9
Left tilted	20	QPSK 50_0	18900/1880	1:1	0.502	0.18	16.66	17.50	1.213	0.609	22.9
Right cheek	20	QPSK 50_0	18900/1880	1:1	0.608	-0.18	16.66	17.50	1.213	0.738	22.9
Right tilted	20	QPSK 50_0	18900/1880	1:1	0.723	-0.02	16.66	17.50	1.213	0.877	22.9
Right tilted	20	QPSK 50_0	18700/1860	1:1	0.665	0.01	16.60	17.50	1.230	0.818	22.9
Right tilted	20	QPSK 50_0	19100/1900	1:1	0.819	0.05	16.65	17.50	1.216	0.996	22.9
Right tilted - Repeat SAR	20	QPSK 50_0	19100/1900	1:1	0.816	0.08	16.65	17.50	1.216	0.992	22.9
Head Test Data(50%RB)											
Right tilted	20	QPSK 100_0	19100/1900	1:1	0.766	0.18	16.76	17.50	1.186	0.908	22.9
Hotspot (Sensor off) Test data(1RB)											
Front side-12mm	20	QPSK 1_0	18900/1880	1:1	0.577	0.06	24.04	25.00	1.247	0.720	22.9
Back side-18mm	20	QPSK 1_0	18900/1880	1:1	0.527	0.03	24.04	25.00	1.247	0.657	22.9
Left side-10mm	20	QPSK 1_0	18900/1880	1:1	0.151	0.15	24.04	25.00	1.247	0.188	22.9
Top side-17mm	20	QPSK 1_0	18900/1880	1:1	0.621	0.01	24.04	25.00	1.247	0.775	22.9
Hotspot (Sensor off) Test data(50%RB)											
Front side-12mm	20	QPSK 50_0	18900/1880	1:1	0.485	-0.18	22.94	24.00	1.276	0.619	22.9
Back side-18mm	20	QPSK 50_0	18900/1880	1:1	0.429	0.12	22.94	24.00	1.276	0.548	22.9
Left side-10mm	20	QPSK 50_0	18900/1880	1:1	0.124	-0.15	22.94	24.00	1.276	0.158	22.9



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Top side-17mm	20	QPSK 50_0	18900/1880	1:1	0.555	0.02	22.94	24.00	1.276	0.708	22.9
Hptspot (Sensor on) Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	18900/1880	1:1	0.211	0.07	18.16	19.00	1.213	0.256	22.9
Back side	20	QPSK 1_0	18900/1880	1:1	0.415	-0.14	18.16	19.00	1.213	0.504	22.9
Top side	20	QPSK 1_0	18900/1880	1:1	0.481	0.10	18.16	19.00	1.213	0.584	22.9
Hptspot (Sensor on) Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	18900/1880	1:1	0.205	0.06	18.15	19.00	1.216	0.249	22.9
Back side	20	QPSK 50_0	18900/1880	1:1	0.430	0.04	18.15	19.00	1.216	0.523	22.9
Top side	20	QPSK 50_0	18900/1880	1:1	0.497	0.11	18.15	19.00	1.216	0.604	22.9
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.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	18900/1880	1:1	0.239	0.18	24.65	25.50	1.216	0.291	22.9
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.119	0.08	24.65	25.50	1.216	0.145	22.9
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.382	-0.19	24.65	25.50	1.216	0.465	22.9
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.130	0.08	24.65	25.50	1.216	0.158	22.9
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	18900/1880	1:1	0.185	-0.12	23.60	24.50	1.230	0.228	22.9
Left tilted	20	QPSK 50_0	18900/1880	1:1	0.086	0.00	23.60	24.50	1.230	0.106	22.9
Right cheek	20	QPSK 50_0	18900/1880	1:1	0.336	-0.03	23.60	24.50	1.230	0.413	22.9
Right tilted	20	QPSK 50_0	18900/1880	1:1	0.112	-0.17	23.60	24.50	1.230	0.138	22.9
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	18900/1880	1:1	0.105	0.09	23.21	24.00	1.199	0.126	22.9
Back side	20	QPSK 1_0	18900/1880	1:1	0.307	0.06	23.21	24.00	1.199	0.368	22.9
Left side	20	QPSK 1_0	18900/1880	1:1	0.278	-0.17	23.21	24.00	1.199	0.333	22.9
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	18900/1880	1:1	0.079	-0.07	23.16	24.00	1.213	0.096	22.9
Back side	20	QPSK 50_0	18900/1880	1:1	0.292	-0.19	23.16	24.00	1.213	0.354	22.9
Left side	20	QPSK 50_0	18900/1880	1:1	0.217	-0.10	23.16	24.00	1.213	0.263	22.9

Table 16: SAR of LTE Band 2 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	19100/1900	0.819	0.816	1.003676471	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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9.2.7 SAR Result of LTE Band 7

LTE Band 7 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)	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	0.114	-0.02	24.65	25.50	1.216	0.139	22.6
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.098	0.16	24.65	25.50	1.216	0.119	22.6
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.140	0.08	24.65	25.50	1.216	0.170	22.6
Right cheek - CA_7C	20	QPSK 1_0	21100+20902/2535+25152	1:1	0.108	0.04	24.57	25.50	1.239	0.134	22.6
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.045	-0.09	24.65	25.50	1.216	0.055	22.6
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.081	0.18	23.45	24.50	1.274	0.103	22.6
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.075	-0.11	23.45	24.50	1.274	0.096	22.6
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.113	0.00	23.45	24.50	1.274	0.144	22.6
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.036	0.17	23.45	24.50	1.274	0.046	22.6
Hotspot (Sensor off) Test data(1RB)											
Front side-10mm	20	QPSK 1_0	21100/2535	1:1	0.857	0.09	24.65	25.50	1.216	1.042	22.6
Front side-10mm - Repeat SAR	20	QPSK 1_0	21100/2535	1:1	0.855	0.02	24.65	25.50	1.216	1.040	22.6
Front side-10mm - CA_7C	20	QPSK 1_0	21100+20902/2535+25152	1:1	0.826	0.13	24.57	25.50	1.239	1.023	22.6
Front side-10mm	20	QPSK 1_0	20850/2510	1:1	0.832	0.10	24.55	25.50	1.245	1.035	22.6
Front side-10mm	20	QPSK 1_0	21350/2560	1:1	0.811	-0.02	24.48	25.50	1.265	1.026	22.6
Back side-19mm	20	QPSK 1_0	21100/2535	1:1	0.443	-0.02	24.65	25.50	1.216	0.539	22.6
Left side-10mm	20	QPSK 1_0	21100/2535	1:1	0.137	-0.13	24.65	25.50	1.216	0.167	22.6
Right side-10mm	20	QPSK 1_0	21100/2535	1:1	0.210	-0.13	24.65	25.50	1.216	0.255	22.6
Bottom side-19mm	20	QPSK 1_0	21100/2535	1:1	0.760	-0.08	24.65	25.50	1.216	0.924	22.6
Bottom side-19mm	20	QPSK 1_0	20850/2510	1:1	0.752	0.13	24.55	25.50	1.245	0.936	22.6
Bottom side-19mm	20	QPSK 1_0	21350/2560	1:1	0.755	-0.19	24.48	25.50	1.265	0.955	22.6
Hotspot (Sensor off) Test data(50%RB)											
Front side-10mm	20	QPSK 50_0	21100/2535	1:1	0.716	0.09	23.45	24.50	1.274	0.912	22.6
Front side-10mm	20	QPSK 50_0	20850/2510	1:1	0.702	0.05	23.44	24.50	1.276	0.896	22.6
Front side-10mm	20	QPSK 50_0	21350/2560	1:1	0.689	-0.13	23.44	24.50	1.276	0.879	22.6
Back side-19mm	20	QPSK 50_0	21100/2535	1:1	0.326	-0.06	23.45	24.50	1.274	0.415	22.6
Left side-10mm	20	QPSK 50_0	21100/2535	1:1	0.106	-0.02	23.45	24.50	1.274	0.135	22.6
Right side-10mm	20	QPSK 50_0	21100/2535	1:1	0.183	-0.16	23.45	24.50	1.274	0.233	22.6
Bottom side-19mm	20	QPSK 50_0	21100/2535	1:1	0.618	0.06	23.45	24.50	1.274	0.787	22.6
Hotspot (Sensor off) Test data(100%RB)											
Front side-10mm	20	QPSK 100_0	21100/2535	1:1	0.705	-0.06	23.55	24.50	1.245	0.877	22.6
Bottom side-19mm	20	QPSK 100_0	21100/2535	1:1	0.611	-0.13	23.55	24.50	1.245	0.760	22.6
Htpspot (Sensor on) Test data(Separate 10mm 1RB)											
Back side	20	QPSK 1_0	21100/2535	1:1	0.344	0.16	18.79	19.50	1.178	0.405	22.6
Bottom side	20	QPSK 1_0	21100/2535	1:1	0.561	0.14	18.79	19.50	1.178	0.661	22.6
Htpspot (Sensor on) Test data(Separate 10mm 50%RB)											
Back side	20	QPSK 50_0	21100/2535	1:1	0.351	0.13	18.75	19.50	1.189	0.417	22.6
Bottom side	20	QPSK 50_0	21100/2535	1:1	0.572	-0.06	18.75	19.50	1.189	0.680	22.6

Ant 4 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)	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	0.539	-0.14	16.61	17.50	1.227	0.662	22.6
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.611	-0.10	16.61	17.50	1.227	0.750	22.6
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.587	0.17	16.61	17.50	1.227	0.721	22.6
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.779	0.17	16.61	17.50	1.227	0.956	22.6
Right tilted - CA_7C	20	QPSK 1_0	21100+20902/2535+2515_2	1:1	0.734	-0.05	16.38	17.50	1.294	0.950	22.6
Right tilted For ENDC	20	QPSK 1_0	21100/2535	1:1	0.779	0.17	16.61	14.50	0.615	0.479	22.6
Right tilted	20	QPSK 1_0	20850/2510	1:1	0.582	0.05	16.55	17.50	1.245	0.724	22.6
Right tilted	20	QPSK 1_0	21350/2560	1:1	0.561	0.12	16.48	17.50	1.265	0.710	22.6
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.531	0.11	16.58	17.50	1.236	0.656	22.6
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.610	0.13	16.58	17.50	1.236	0.754	22.6
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.589	0.16	16.58	17.50	1.236	0.728	22.6
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.764	0.05	16.58	17.50	1.236	0.944	22.6
Right tilted	20	QPSK 50_0	20850/2510	1:1	0.576	0.05	16.43	17.50	1.279	0.737	22.6
Right tilted	20	QPSK 50_0	21350/2560	1:1	0.552	-0.17	16.43	17.50	1.279	0.706	22.6
Head Test Data(100%RB)											
Right tilted	20	QPSK 100_0	21100/2535	1:1	0.728	0.09	16.46	17.50	1.271	0.925	22.6
Hotspot (Sensor off) Test data(1RB)											
Front side-12mm	20	QPSK 1_0	21100/2535	1:1	0.428	0.15	24.64	25.50	1.219	0.522	22.6
Back side-18mm	20	QPSK 1_0	21100/2535	1:1	0.396	-0.06	24.64	25.50	1.219	0.483	22.6
Left side-10mm	20	QPSK 1_0	21100/2535	1:1	0.301	0.12	24.64	25.50	1.219	0.367	22.6
Top side-17mm	20	QPSK 1_0	21100/2535	1:1	0.796	-0.07	24.64	25.50	1.219	0.970	22.6
Top side-17mm - CA_7C	20	QPSK 1_0	21100+20902/2535+2515_2	1:1	0.725	0.04	24.34	25.50	1.306	0.947	22.6
Top side-17mm	20	QPSK 1_0	20850/2510	1:1	0.732	-0.02	24.57	25.50	1.239	0.907	22.6
Top side-17mm	20	QPSK 1_0	21350/2560	1:1	0.706	0.15	24.63	25.50	1.222	0.863	22.6
Hotspot (Sensor off) Test data(50%RB)											
Front side-12mm	20	QPSK 50_0	21100/2535	1:1	0.329	-0.13	23.61	24.50	1.227	0.404	22.6
Back side-18mm	20	QPSK 50_0	21100/2535	1:1	0.310	-0.02	23.61	24.50	1.227	0.381	22.6
Left side-10mm	20	QPSK 50_0	21100/2535	1:1	0.257	-0.19	23.61	24.50	1.227	0.315	22.6
Top side-17mm	20	QPSK 50_0	21100/2535	1:1	0.622	0.03	23.61	24.50	1.227	0.763	22.6
Hotspot (Sensor off) Test data(100%RB)											
Top side-17mm	20	QPSK 100_0	21100/2535	1:1	0.618	0.09	23.46	24.50	1.271	0.785	22.6
Hptspot (Sensor on) Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	21100/2535	1:1	0.137	0.14	17.63	18.50	1.222	0.167	22.6
Back side	20	QPSK 1_0	21100/2535	1:1	0.318	-0.09	17.63	18.50	1.222	0.389	22.6
Top side	20	QPSK 1_0	21100/2535	1:1	0.554	0.07	17.63	18.50	1.222	0.677	22.6
Hptspot (Sensor on) Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	21100/2535	1:1	0.129	0.01	17.57	18.50	1.239	0.160	22.6
Back side	20	QPSK 50_0	21100/2535	1:1	0.319	-0.05	17.57	18.50	1.239	0.395	22.6
Back side-CA_7C	20	QPSK 50_0	21100+20902/2535+2515_2	1:1	0.269	0.03	17.33	18.50	1.309	0.352	22.6
Top side	20	QPSK 50_0	21100/2535	1:1	0.557	0.11	17.57	18.50	1.239	0.690	22.6
Ant 3 Test Record											
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg)	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scale d factor	Scale d SAR 1-g	Liquid Temp. (°C)



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											(W/kg)
)
											1-g
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.159	-0.05	16.76	17.50	1.186	0.189	22.6
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.037	-0.04	16.76	17.50	1.186	0.044	22.6
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.238	-0.04	16.76	17.50	1.186	0.282	22.6
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.057	-0.06	16.76	17.50	1.186	0.068	22.6
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.152	-0.09	16.66	17.50	1.213	0.184	22.6
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.037	-0.07	16.66	17.50	1.213	0.045	22.6
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.231	-0.16	16.66	17.50	1.213	0.280	22.6
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.058	-0.05	16.66	17.50	1.213	0.070	22.6
Hotspot (Sensor off) Test data(1RB)											
Front side-10mm	20	QPSK 1_0	21100/2535	1:1	0.318	-0.07	22.72	23.50	1.197	0.381	22.6
Back side-13mm	20	QPSK 1_0	21100/2535	1:1	0.386	-0.06	22.72	23.50	1.197	0.462	22.6
Left side-13mm	20	QPSK 1_0	21100/2535	1:1	0.273	0.05	22.72	23.50	1.197	0.327	22.6
Hotspot (Sensor off) Test data(50%RB)											
Front side-10mm	20	QPSK 50_0	21100/2535	1:1	0.329	-0.18	22.61	23.50	1.227	0.404	22.6
Back side-13mm	20	QPSK 50_0	21100/2535	1:1	0.373	0.01	22.61	23.50	1.227	0.458	22.6
Left side-13mm	20	QPSK 50_0	21100/2535	1:1	0.262	0.03	22.61	23.50	1.227	0.322	22.6
Hptspot (Sensor on) Test data(Separate 10mm 1RB)											
Back side	20	QPSK 1_0	21100/2535	1:1	0.403	0.15	19.30	20.00	1.175	0.473	22.6
Left side	20	QPSK 1_0	21100/2535	1:1	0.283	0.03	19.30	20.00	1.175	0.332	22.6
Hptspot (Sensor on) Test data(Separate 10mm 50%RB)											
Back side	20	QPSK 50_0	21100/2535	1:1	0.386	0.16	19.15	20.00	1.216	0.469	22.6
Left side	20	QPSK 50_0	21100/2535	1:1	0.277	0.17	19.15	20.00	1.216	0.337	22.6

Table 17: 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)
Front side	21100/2535	0.857	0.855	1.002339181	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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9.2.8 SAR Result of LTE Band 12

LTE Band 12 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	10	QPSK 1_0	23095/707.5	1:1	0.110	-0.04	24.95	25.50	1.135	0.125	22.7
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.072	-0.12	24.95	25.50	1.135	0.082	22.7
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.129	0.07	24.95	25.50	1.135	0.146	22.7
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.081	-0.09	24.95	25.50	1.135	0.092	22.7
Head Test Data(50%RB)											
Left cheek	10	QPSK 25_0	23095/707.5	1:1	0.083	0.09	23.83	24.50	1.167	0.097	22.7
Left tilted	10	QPSK 25_0	23095/707.5	1:1	0.054	0.14	23.83	24.50	1.167	0.063	22.7
Right cheek	10	QPSK 25_0	23095/707.5	1:1	0.104	-0.11	23.83	24.50	1.167	0.121	22.7
Right tilted	10	QPSK 25_0	23095/707.5	1:1	0.066	0.02	23.83	24.50	1.167	0.077	22.7
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_0	23095/707.5	1:1	0.165	-0.03	24.95	25.50	1.135	0.187	22.7
Back side	10	QPSK 1_0	23095/707.5	1:1	0.171	-0.01	24.95	25.50	1.135	0.194	22.7
Left side	10	QPSK 1_0	23095/707.5	1:1	0.161	0.18	24.95	25.50	1.135	0.183	22.7
Right side	10	QPSK 1_0	23095/707.5	1:1	0.225	-0.04	24.95	25.50	1.135	0.255	22.7
Bottom side	10	QPSK 1_0	23095/707.5	1:1	0.156	-0.10	24.95	25.50	1.135	0.177	22.7
Hotspot Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25_0	23095/707.5	1:1	0.128	0.05	23.83	24.50	1.167	0.149	22.7
Back side	10	QPSK 25_0	23095/707.5	1:1	0.133	0.07	23.83	24.50	1.167	0.155	22.7
Left side	10	QPSK 25_0	23095/707.5	1:1	0.126	-0.03	23.83	24.50	1.167	0.147	22.7
Right side	10	QPSK 25_0	23095/707.5	1:1	0.185	-0.16	23.83	24.50	1.167	0.216	22.7
Bottom side	10	QPSK 25_0	23095/707.5	1:1	0.124	0.16	23.83	24.50	1.167	0.145	22.7
Ant 4 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	23095/707.5	1:1	0.463	-0.18	24.78	25.50	1.180	0.546	22.7
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.415	0.08	24.78	25.50	1.180	0.490	22.7
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.504	-0.07	24.78	25.50	1.180	0.595	22.7
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.468	0.11	24.78	25.50	1.180	0.552	22.7
Head Test Data(50%RB)											
Left cheek	10	QPSK 25_0	23095/707.5	1:1	0.369	0.04	23.81	24.50	1.172	0.433	22.7
Left tilted	10	QPSK 25_0	23095/707.5	1:1	0.337	-0.08	23.81	24.50	1.172	0.395	22.7
Right cheek	10	QPSK 25_0	23095/707.5	1:1	0.402	-0.05	23.81	24.50	1.172	0.471	22.7
Right tilted	10	QPSK 25_0	23095/707.5	1:1	0.378	-0.07	23.81	24.50	1.172	0.443	22.7
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_0	23095/707.5	1:1	0.100	-0.10	24.78	25.50	1.180	0.118	22.7
Back side	10	QPSK 1_0	23095/707.5	1:1	0.180	0.13	24.78	25.50	1.180	0.212	22.7
Left side	10	QPSK 1_0	23095/707.5	1:1	0.103	-0.17	24.78	25.50	1.180	0.122	22.7
Top side	10	QPSK 1_0	23095/707.5	1:1	0.147	-0.05	24.78	25.50	1.180	0.174	22.7



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Hotspot Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25_0	23095/707.5	1:1	0.080	0.05	23.81	24.50	1.172	0.094	22.7
Back side	10	QPSK 25_0	23095/707.5	1:1	0.174	-0.16	23.81	24.50	1.172	0.204	22.7
Left side	10	QPSK 25_0	23095/707.5	1:1	0.084	-0.15	23.81	24.50	1.172	0.098	22.7
Top side	10	QPSK 25_0	23095/707.5	1:1	0.114	-0.10	23.81	24.50	1.172	0.134	22.7

Table 18: SAR of LTE Band 12 for Head and Body.

9.2.9 SAR Result of LTE Band 13

LTE Band 13 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	10	QPSK 1_0	23230/782	1:1	0.105	-0.13	24.88	25.50	1.153	0.121	22.7
Left tilted	10	QPSK 1_0	23230/782	1:1	0.069	0.11	24.88	25.50	1.153	0.080	22.7
Right cheek	10	QPSK 1_0	23230/782	1:1	0.124	-0.05	24.88	25.50	1.153	0.143	22.7
Right tilted	10	QPSK 1_0	23230/782	1:1	0.085	0.10	24.88	25.50	1.153	0.098	22.7
Head Test Data(50%RB)											
Left cheek	10	QPSK 25_0	23230/782	1:1	0.081	0.18	23.97	24.50	1.130	0.092	22.7
Left tilted	10	QPSK 25_0	23230/782	1:1	0.053	0.00	23.97	24.50	1.130	0.060	22.7
Right cheek	10	QPSK 25_0	23230/782	1:1	0.096	0.11	23.97	24.50	1.130	0.108	22.7
Right tilted	10	QPSK 25_0	23230/782	1:1	0.067	-0.06	23.97	24.50	1.130	0.076	22.7
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_0	23230/782	1:1	0.123	-0.10	24.88	25.50	1.153	0.142	22.7
Back side	10	QPSK 1_0	23230/782	1:1	0.206	0.08	24.88	25.50	1.153	0.238	22.7
Left side	10	QPSK 1_0	23230/782	1:1	0.097	-0.19	24.88	25.50	1.153	0.112	22.7
Right side	10	QPSK 1_0	23230/782	1:1	0.164	0.16	24.88	25.50	1.153	0.189	22.7
Bottom side	10	QPSK 1_0	23230/782	1:1	0.167	0.08	24.88	25.50	1.153	0.193	22.7
Hotspot Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25_0	23230/782	1:1	0.096	-0.03	23.97	24.50	1.130	0.108	22.7
Back side	10	QPSK 25_0	23230/782	1:1	0.162	0.13	23.97	24.50	1.130	0.183	22.7
Left side	10	QPSK 25_0	23230/782	1:1	0.073	0.10	23.97	24.50	1.130	0.082	22.7
Right side	10	QPSK 25_0	23230/782	1:1	0.133	0.11	23.97	24.50	1.130	0.150	22.7
Bottom side	10	QPSK 25_0	23230/782	1:1	0.133	-0.19	23.97	24.50	1.130	0.150	22.7
Ant 4 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	23230/782	1:1	0.650	0.02	24.81	25.50	1.172	0.762	22.7
Left tilted	10	QPSK 1_0	23230/782	1:1	0.575	0.10	24.81	25.50	1.172	0.674	22.7
Right cheek	10	QPSK 1_0	23230/782	1:1	0.698	-0.01	24.81	25.50	1.172	0.818	22.7
Right tilted	10	QPSK 1_0	23230/782	1:1	0.620	-0.19	24.81	25.50	1.172	0.727	22.7
Head Test Data(50%RB)											
Left cheek	10	QPSK 25_0	23230/782	1:1	0.503	0.12	23.66	24.50	1.213	0.610	22.7
Left tilted	10	QPSK 25_0	23230/782	1:1	0.449	0.18	23.66	24.50	1.213	0.545	22.7



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Right cheek	10	QPSK 25_0	23230/782	1:1	0.541	-0.16	23.66	24.50	1.213	0.656	22.7
Right tilted	10	QPSK 25_0	23230/782	1:1	0.471	0.17	23.66	24.50	1.213	0.572	22.7
Head Test Data(50%RB)											
Right cheek	10	QPSK 50_0	23230/782	1:1	0.525	0.02	23.68	24.50	1.208	0.634	22.7
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_0	23230/782	1:1	0.164	0.18	24.81	25.50	1.172	0.192	22.7
Back side	10	QPSK 1_0	23230/782	1:1	0.284	0.09	24.81	25.50	1.172	0.333	22.7
Left side	10	QPSK 1_0	23230/782	1:1	0.129	0.10	24.81	25.50	1.172	0.151	22.7
Top side	10	QPSK 1_0	23230/782	1:1	0.223	-0.15	24.81	25.50	1.172	0.261	22.7
Hotspot Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25_0	23230/782	1:1	0.127	-0.06	23.66	24.50	1.213	0.154	22.7
Back side	10	QPSK 25_0	23230/782	1:1	0.198	0.16	23.66	24.50	1.213	0.240	22.7
Left side	10	QPSK 25_0	23230/782	1:1	0.102	-0.19	23.66	24.50	1.213	0.124	22.7
Top side	10	QPSK 25_0	23230/782	1:1	0.194	-0.09	23.66	24.50	1.213	0.235	22.7

Table 19: SAR of LTE Band 13 for Head and Body.

9.2.10 SAR Result of LTE Band 26

LTE Band 26 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	15	QPSK 1_0	26865/831.5	1:1	0.177	0.01	25.09	25.50	1.099	0.195	22.8
Left tilted	15	QPSK 1_0	26865/831.5	1:1	0.105	0.15	25.09	25.50	1.099	0.115	22.8
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.196	0.09	25.09	25.50	1.099	0.215	22.8
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.126	0.19	25.09	25.50	1.099	0.138	22.8
Head Test Data(50%RB)											
Left cheek	15	QPSK 36_0	26865/831.5	1:1	0.142	0.19	23.98	24.50	1.127	0.160	22.8
Left tilted	15	QPSK 36_0	26865/831.5	1:1	0.078	0.03	23.98	24.50	1.127	0.088	22.8
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.156	0.07	23.98	24.50	1.127	0.176	22.8
Right tilted	15	QPSK 36_0	26865/831.5	1:1	0.097	0.12	23.98	24.50	1.127	0.109	22.8
Hotspot Test data(Separate 10mm 1RB)											
Front side	15	QPSK 1_0	26865/831.5	1:1	0.204	-0.03	25.09	25.50	1.099	0.224	22.8
Back side	15	QPSK 1_0	26865/831.5	1:1	0.324	0.14	25.09	25.50	1.099	0.356	22.8
Left side	15	QPSK 1_0	26865/831.5	1:1	0.116	-0.18	25.09	25.50	1.099	0.127	22.8
Right side	15	QPSK 1_0	26865/831.5	1:1	0.192	-0.02	25.09	25.50	1.099	0.211	22.8
Bottom side	15	QPSK 1_0	26865/831.5	1:1	0.184	0.03	25.09	25.50	1.099	0.202	22.8
Hotspot Test data(Separate 10mm 50%RB)											
Front side	15	QPSK 36_0	26865/831.5	1:1	0.166	0.13	23.98	24.50	1.127	0.187	22.8
Back side	15	QPSK 36_0	26865/831.5	1:1	0.263	-0.12	23.98	24.50	1.127	0.296	22.8
Left side	15	QPSK 36_0	26865/831.5	1:1	0.093	0.05	23.98	24.50	1.127	0.105	22.8
Right side	15	QPSK 36_0	26865/831.5	1:1	0.147	-0.13	23.98	24.50	1.127	0.166	22.8
Bottom side	15	QPSK 36_0	26865/831.5	1:1	0.150	0.06	23.98	24.50	1.127	0.169	22.8
Ant 4 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	15	QPSK 1_0	26865/831.5	1:1	0.635	-0.03	24.32	25.00	1.169	0.743	22.8
Left tilted	15	QPSK 1_0	26865/831.5	1:1	0.554	-0.09	24.32	25.00	1.169	0.648	22.8
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.630	0.03	24.32	25.00	1.169	0.737	22.8
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.568	-0.10	24.32	25.00	1.169	0.664	22.8
Head Test Data(50%RB)											
Left cheek	15	QPSK 36_0	26865/831.5	1:1	0.568	-0.16	23.88	24.50	1.153	0.655	22.8
Left tilted	15	QPSK 36_0	26865/831.5	1:1	0.496	0.15	23.88	24.50	1.153	0.572	22.8
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.566	0.17	23.88	24.50	1.153	0.653	22.8
Right tilted	15	QPSK 36_0	26865/831.5	1:1	0.514	0.15	23.88	24.50	1.153	0.593	22.8
Hotspot Test data(Separate 10mm 1RB)											
Front side	15	QPSK 1_0	26865/831.5	1:1	0.178	0.13	24.80	25.50	1.175	0.209	22.8
Back side	15	QPSK 1_0	26865/831.5	1:1	0.340	0.12	24.80	25.50	1.175	0.399	22.8
Left side	15	QPSK 1_0	26865/831.5	1:1	0.101	0.08	24.80	25.50	1.175	0.119	22.8
Top side	15	QPSK 1_0	26865/831.5	1:1	0.276	0.11	24.80	25.50	1.175	0.324	22.8
Hotspot Test data(Separate 10mm 50%RB)											
Front side	15	QPSK 36_0	26865/831.5	1:1	0.147	-0.15	23.88	24.50	1.153	0.170	22.8
Back side	15	QPSK 36_0	26865/831.5	1:1	0.267	0.03	23.88	24.50	1.153	0.308	22.8
Left side	15	QPSK 36_0	26865/831.5	1:1	0.080	0.12	23.88	24.50	1.153	0.092	22.8
Top side	15	QPSK 36_0	26865/831.5	1:1	0.223	-0.13	23.88	24.50	1.153	0.257	22.8

Table 20: SAR of LTE Band 26 for Head and Body.



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9.2.11 SAR Result of LTE Band 41

LTE Band 41 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	40620/2593	1:1.58	0.099	-0.08	24.68	25.50	1.208	0.120	22.6	
Left cheek-CA_38C	20	QPSK 1_0	37901+38099/2585.1+2604.9	1:1.58	0.078	0.03	24.23	25.50	1.340	0.104	22.6	
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.076	-0.14	24.68	25.50	1.208	0.092	22.6	
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.096	-0.15	24.68	25.50	1.208	0.116	22.6	
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.042	-0.03	24.68	25.50	1.208	0.051	22.6	
Head Test Data(50%RB)												
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.081	0.02	23.48	24.50	1.265	0.102	22.6	
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.067	0.15	23.48	24.50	1.265	0.085	22.6	
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.082	0.03	23.48	24.50	1.265	0.104	22.6	
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.029	0.08	23.48	24.50	1.265	0.037	22.6	
Hotspot (Sensor off) Test data(1RB)												
Front side-10mm	20	QPSK 1_0	40620/2593	1:1.58	0.455	0.10	24.68	25.50	1.208	0.550	22.6	
Front side-10mm-CA_38C	20	QPSK 1_0	37901+38099/2585.1+2604.9	1:1.58	0.409	0.03	24.23	25.50	1.340	0.548	22.6	
Back side-19mm	20	QPSK 1_0	40620/2593	1:1.58	0.225	-0.18	24.68	25.50	1.208	0.272	22.6	
Left side-10mm	20	QPSK 1_0	40620/2593	1:1.58	0.088	0.06	24.68	25.50	1.208	0.106	22.6	
Right side-10mm	20	QPSK 1_0	40620/2593	1:1.58	0.126	-0.03	24.68	25.50	1.208	0.152	22.6	
Bottom side-19mm	20	QPSK 1_0	40620/2593	1:1.58	0.378	-0.01	24.68	25.50	1.208	0.457	22.6	
Hotspot (Sensor off) Test data(50%RB)												
Front side-10mm	20	QPSK 50_0	40620/2593	1:1.58	0.380	-0.03	23.48	24.50	1.265	0.481	22.6	
Back side-19mm	20	QPSK 50_0	40620/2593	1:1.58	0.175	0.17	23.48	24.50	1.265	0.221	22.6	
Left side-10mm	20	QPSK 50_0	40620/2593	1:1.58	0.071	0.10	23.48	24.50	1.265	0.090	22.6	
Right side-10mm	20	QPSK 50_0	40620/2593	1:1.58	0.098	0.16	23.48	24.50	1.265	0.124	22.6	
Bottom side-19mm	20	QPSK 50_0	40620/2593	1:1.58	0.283	0.10	23.48	24.50	1.265	0.358	22.6	
Hptsot (Sensor on) Test data(Separate 10mm 1RB)												
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.332	-0.10	21.16	22.00	1.213	0.403	22.6	
Bottom side	20	QPSK 1_0	40620/2593	1:1.58	0.487	-0.04	21.16	22.00	1.213	0.591	22.6	
Bottom side-CA_38C	20	QPSK 1_0	37901+38099/2585.1+2604.9	1:1.58	0.446	0.09	20.92	22.00	1.282	0.572	22.6	
Hptsot (Sensor on) Test data(Separate 10mm 50%RB)												
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.326	0.17	21.10	22.00	1.230	0.401	22.6	
Bottom side	20	QPSK 50_0	40620/2593	1:1.58	0.463	-0.10	21.10	22.00	1.230	0.570	22.6	
Ant 4 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	0.522	0.14	19.36	20.00	1.159	0.605	22.6	
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.630	-0.06	19.36	20.00	1.159	0.730	22.6	
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.590	0.16	19.36	20.00	1.159	0.684	22.6	
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.781	0.02	19.36	20.00	1.159	0.905	22.6	
Right tilted	20	QPSK 1_0	39750/2506	1:1.58	0.874	0.16	19.18	20.00	1.208	1.056	22.6	
Right tilted - Repeat SAR	20	QPSK 1_0	39750/2506	1:1.58	0.872	0.02	19.18	20.00	1.208	1.053	22.6	
Right tilted - CA_38C	20	QPSK 1_0	37901+38099/2585.1+2604.9	1:1.58	0.839	0.05	19.04	20.00	1.247	1.047	22.6	
Right tilted	20	QPSK 1_0	40185/2549.5	1:1.58	0.855	-0.07	19.20	20.00	1.202	1.028	22.6	
Right tilted	20	QPSK 1_0	41055/2636.5	1:1.58	0.804	-0.06	19.11	20.00	1.227	0.987	22.6	
Right tilted	20	QPSK 1_0	41490/2680	1:1.58	0.647	0.02	19.22	20.00	1.197	0.774	22.6	
Head Test Data(50%RB)												
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.524	-0.09	19.32	20.00	1.169	0.613	22.6	
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.622	-0.02	19.32	20.00	1.169	0.727	22.6	
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.581	0.15	19.32	20.00	1.169	0.679	22.6	
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.766	-0.08	19.32	20.00	1.169	0.896	22.6	
Right tilted	20	QPSK 50_0	39750/2506	1:1.58	0.789	-0.17	19.25	20.00	1.189	0.938	22.6	
Right tilted	20	QPSK 50_0	40185/2549.5	1:1.58	0.740	0.15	19.17	20.00	1.211	0.896	22.6	
Right tilted	20	QPSK 50_0	41055/2636.5	1:1.58	0.708	0.03	19.25	20.00	1.189	0.841	22.6	
Right tilted	20	QPSK 50_0	41490/2680	1:1.58	0.659	-0.04	19.25	20.00	1.189	0.783	22.6	
Head Test Data(100%RB)												
Right tilted	20	QPSK 100_0	40620/2593	1:1.58	0.758	-0.01	19.27	20.00	1.183	0.897	22.6	



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Hotspot (Sensor off) Test data(1RB)												
Front side-10mm	20	QPSK 1_0	40620/2593	1:1.58	0.466	0.04	24.47	25.00	1.130	0.526	22.6	
Front side-10mm-CA_38C	20	QPSK 1_0	37901+38099/2585.1+2604.9	1:1.58	0.428	0.01	24.32	25.00	1.169	0.501	22.6	
Back side-18mm	20	QPSK 1_0	40620/2593	1:1.58	0.211	0.15	24.47	25.00	1.130	0.238	22.6	
Left side-10mm	20	QPSK 1_0	40620/2593	1:1.58	0.151	-0.19	24.47	25.00	1.130	0.171	22.6	
Top side-17mm	20	QPSK 1_0	40620/2593	1:1.58	0.415	-0.09	24.47	25.00	1.130	0.469	22.6	
Hotspot (Sensor off) Test data(50%RB)												
Front side-10mm	20	QPSK 50_0	40620/2593	1:1.58	0.443	0.15	23.38	24.00	1.153	0.511	22.6	
Back side-18mm	20	QPSK 50_0	40620/2593	1:1.58	0.164	0.19	23.38	24.00	1.153	0.189	22.6	
Left side-10mm	20	QPSK 50_0	40620/2593	1:1.58	0.156	-0.19	23.38	24.00	1.153	0.180	22.6	
Top side-17mm	20	QPSK 50_0	40620/2593	1:1.58	0.322	0.04	23.38	24.00	1.153	0.371	22.6	
Htpspot (Sensor on) Test data(Separate 10mm 1RB)												
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.212	-0.11	19.82	20.50	1.169	0.248	22.6	
Top side	20	QPSK 1_0	40620/2593	1:1.58	0.384	-0.17	19.82	20.50	1.169	0.449	22.6	
Htpspot (Sensor on) Test data(Separate 10mm 50%RB)												
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.211	-0.17	19.80	20.50	1.175	0.248	22.6	
Top side	20	QPSK 50_0	40620/2593	1:1.58	0.378	0.05	19.80	20.50	1.175	0.444	22.6	
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	0.210	0.11	18.77	19.00	1.054	0.221	22.6	
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.050	-0.01	18.77	19.00	1.054	0.053	22.6	
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.408	-0.17	18.77	19.00	1.054	0.430	22.6	
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.080	0.09	18.77	19.00	1.054	0.084	22.6	
Head Test Data(50%RB)												
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.164	-0.19	18.55	19.00	1.109	0.182	22.6	
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.041	-0.16	18.55	19.00	1.109	0.045	22.6	
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.326	0.08	18.55	19.00	1.109	0.362	22.6	
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.063	0.17	18.55	19.00	1.109	0.070	22.6	
Hotspot (Sensor off) Test data(1RB)												
Front side-10mm	20	QPSK 1_0	40620/2593	1:1.58	0.290	-0.12	21.24	22.00	1.191	0.345	22.6	
Back side-13mm	20	QPSK 1_0	40620/2593	1:1.58	0.404	0.00	21.24	22.00	1.191	0.481	22.6	
Left side-13mm	20	QPSK 1_0	40620/2593	1:1.58	0.335	0.02	21.24	22.00	1.191	0.399	22.6	
Hotspot (Sensor off) Test data(50%RB)												
Front side-10mm	20	QPSK 50_0	40620/2593	1:1.58	0.222	-0.14	20.20	21.00	1.202	0.267	22.6	
Back side-13mm	20	QPSK 50_0	40620/2593	1:1.58	0.386	-0.02	20.20	21.00	1.202	0.464	22.6	
Left side-13mm	20	QPSK 50_0	40620/2593	1:1.58	0.313	-0.16	20.20	21.00	1.202	0.376	22.6	
Htpspot (Sensor on) Test data(Separate 10mm 1RB)												
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.405	0.01	18.77	19.00	1.054	0.427	22.6	
Left side	20	QPSK 1_0	40620/2593	1:1.58	0.284	-0.16	18.77	19.00	1.054	0.299	22.6	
Htpspot (Sensor on) Test data(Separate 10mm 50%RB)												
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.328	-0.11	18.55	19.00	1.109	0.364	22.6	
Left side	20	QPSK 50_0	40620/2593	1:1.58	0.258	-0.02	18.55	19.00	1.109	0.286	22.6	
Ant 7 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	0.538	-0.03	19.28	20.00	1.180	0.635	22.6	
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.284	-0.05	19.28	20.00	1.180	0.335	22.6	
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.168	0.07	19.28	20.00	1.180	0.198	22.6	
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.133	0.17	19.28	20.00	1.180	0.157	22.6	
Head Test Data(50%RB)												
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.422	0.10	18.22	19.00	1.197	0.505	22.6	
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.227	-0.14	18.22	19.00	1.197	0.272	22.6	
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.134	0.17	18.22	19.00	1.197	0.160	22.6	
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.100	-0.06	18.22	19.00	1.197	0.120	22.6	
Hotspot Test data(Separate 10mm 1RB)												
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.137	0.17	19.28	20.00	1.180	0.162	22.6	
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.308	-0.18	19.28	20.00	1.180	0.364	22.6	
Right side	20	QPSK 1_0	40620/2593	1:1.58	0.132	0.10	19.28	20.00	1.180	0.156	22.6	
Top side	20	QPSK 1_0	40620/2593	1:1.58	0.081	-0.12	19.28	20.00	1.180	0.096	22.6	
Hotspot Test data(Separate 10mm 50%RB)												



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Front side	20	QPSK 50_0	40620/2593	1:1.58	0.106	-0.04	18.22	19.00	1.197	0.127	22.6
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.237	0.09	18.22	19.00	1.197	0.284	22.6
Right side	20	QPSK 50_0	40620/2593	1:1.58	0.112	0.18	18.22	19.00	1.197	0.134	22.6
Top side	20	QPSK 50_0	40620/2593	1:1.58	0.061	-0.10	18.22	19.00	1.197	0.073	22.6

Table 21: SAR of LTE Band 41 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 tilted	39750/2506	0.874	0.872	1.002293578	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

9.2.12 SAR Result of LTE Band 66

LTE Band 66 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	132322/1745	1:1	0.158	-0.02	24.98	25.50	1.127	0.178	22.7
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.135	-0.07	24.98	25.50	1.127	0.152	22.7
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.183	-0.14	24.98	25.50	1.127	0.206	22.7
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.141	-0.17	24.98	25.50	1.127	0.159	22.7
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.125	-0.05	23.75	24.50	1.189	0.149	22.7
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.114	-0.16	23.75	24.50	1.189	0.135	22.7
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.146	-0.09	23.75	24.50	1.189	0.174	22.7
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.108	-0.01	23.75	24.50	1.189	0.128	22.7
Hotspot (Sensor off) Test data(1RB)											
Front side-10mm	20	QPSK 1_0	132322/1745	1:1	0.629	-0.04	24.98	25.50	1.127	0.709	22.7
Back side-19mm	20	QPSK 1_0	132322/1745	1:1	0.317	-0.10	24.98	25.50	1.127	0.357	22.7
Left side-10mm	20	QPSK 1_0	132322/1745	1:1	0.309	-0.18	24.98	25.50	1.127	0.348	22.7
Right side-10mm	20	QPSK 1_0	132322/1745	1:1	0.151	0.03	24.98	25.50	1.127	0.170	22.7
Bottom side-19mm	20	QPSK 1_0	132322/1745	1:1	0.535	0.19	24.98	25.50	1.127	0.603	22.7
Hotspot (Sensor off) Test data(50%RB)											
Front side-10mm	20	QPSK 50_0	132322/1745	1:1	0.508	0.03	23.75	24.50	1.189	0.604	22.7
Back side-19mm	20	QPSK 50_0	132322/1745	1:1	0.237	-0.06	23.75	24.50	1.189	0.282	22.7
Left side-10mm	20	QPSK 50_0	132322/1745	1:1	0.221	-0.16	23.75	24.50	1.189	0.263	22.7
Right side-10mm	20	QPSK 50_0	132322/1745	1:1	0.108	0.12	23.75	24.50	1.189	0.128	22.7
Bottom side-19mm	20	QPSK 50_0	132322/1745	1:1	0.428	0.03	23.75	24.50	1.189	0.509	22.7
Htpspot (Sensor on) Test data(Separate 10mm 1RB)											
Back side	20	QPSK 1_0	132322/1745	1:1	0.355	-0.03	21.07	21.50	1.104	0.392	22.7
Bottom side	20	QPSK 1_0	132322/1745	1:1	0.673	0.15	21.07	21.50	1.104	0.743	22.7
Htpspot (Sensor on) Test data(Separate 10mm 50%RB)											
Back side	20	QPSK 50_0	132322/1745	1:1	0.353	0.08	20.98	21.50	1.127	0.398	22.7
Bottom side	20	QPSK 50_0	132322/1745	1:1	0.669	0.06	20.98	21.50	1.127	0.754	22.7
Ant 4 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	0.453	0.15	15.75	16.50	1.189	0.538	22.7
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.570	0.01	15.75	16.50	1.189	0.677	22.7
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.611	-0.09	15.75	16.50	1.189	0.726	22.7
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.673	-0.03	15.75	16.50	1.189	0.800	22.7
Right tilted	20	QPSK 1_0	132072/1720	1:1	0.730	0.03	15.63	16.50	1.222	0.892	22.7
Right tilted	20	QPSK 1_0	132572/1770	1:1	0.621	0.00	15.67	16.50	1.211	0.752	22.7
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.447	-0.14	15.73	16.50	1.194	0.534	22.7
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.518	-0.13	15.73	16.50	1.194	0.618	22.7
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.601	-0.17	15.73	16.50	1.194	0.718	22.7
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.668	-0.09	15.73	16.50	1.194	0.798	22.7
Head Test Data(100%RB)											
Right tilted	20	QPSK 100_0	132322/1745	1:1	0.643	0.09	15.73	16.50	1.194	0.768	22.7
Hotspot (Sensor off) Test data(1RB)											
Front side-12mm	20	QPSK 1_0	132322/1745	1:1	0.756	0.08	24.20	25.00	1.202	0.909	22.7
Front side-12mm	20	QPSK 1_0	132072/1720	1:1	0.763	-0.07	24.03	25.00	1.250	0.954	22.7
Front side-12mm	20	QPSK 1_0	132572/1770	1:1	0.704	0.09	23.92	25.00	1.282	0.903	22.7
Back side-18mm	20	QPSK 1_0	132322/1745	1:1	0.549	0.03	24.20	25.00	1.202	0.660	22.7
Left side-10mm	20	QPSK 1_0	132322/1745	1:1	0.147	-0.02	24.20	25.00	1.202	0.177	22.7
Top side-17mm	20	QPSK 1_0	132322/1745	1:1	0.749	0.01	24.20	25.00	1.202	0.900	22.7
Top side-17mm	20	QPSK 1_0	132072/1720	1:1	0.780	-0.02	24.03	25.00	1.250	0.975	22.7
Top side-17mm	20	QPSK 1_0	132572/1770	1:1	0.718	0.04	23.92	25.00	1.282	0.921	22.7
Hotspot (Sensor off) Test data(50%RB)											
Front side-12mm	20	QPSK 50_0	132322/1745	1:1	0.583	-0.19	23.02	24.00	1.253	0.731	22.7
Back side-18mm	20	QPSK 50_0	132322/1745	1:1	0.433	-0.12	23.02	24.00	1.253	0.543	22.7
Left side-10mm	20	QPSK 50_0	132322/1745	1:1	0.118	-0.18	23.02	24.00	1.253	0.148	22.7
Top side-17mm	20	QPSK 50_0	132322/1745	1:1	0.596	0.09	23.02	24.00	1.253	0.747	22.7
Hotspot (Sensor off) Test data(100%RB)											
Front side-12mm	20	QPSK 100_0	132322/1745	1:1	0.569	0.19	22.94	24.00	1.276	0.726	22.7
Top side-17mm	20	QPSK 100_0	132322/1745	1:1	0.575	-0.11	22.94	24.00	1.276	0.734	22.7
Htpspot (Sensor on) Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	132322/1745	1:1	0.445	0.18	20.30	21.00	1.175	0.523	22.7
Back side	20	QPSK 1_0	132322/1745	1:1	0.710	0.07	20.30	21.00	1.175	0.834	22.7
Back side	20	QPSK 1_0	132072/1720	1:1	0.738	0.07	20.21	21.00	1.199	0.885	22.7
Back side	20	QPSK 1_0	132572/1770	1:1	0.666	0.04	20.16	21.00	1.213	0.808	22.7
Top side	20	QPSK 1_0	132322/1745	1:1	0.874	-0.15	20.30	21.00	1.175	1.027	22.7
Top side	20	QPSK 1_0	132072/1720	1:1	0.904	0.02	20.21	21.00	1.199	1.084	22.7
Top side - Repeat SAR	20	QPSK 1_0	132072/1720	1:1	0.901	0.05	20.21	21.00	1.199	1.081	22.7
Top side	20	QPSK 1_0	132572/1770	1:1	0.823	-0.03	20.16	21.00	1.213	0.999	22.7
Htpspot (Sensor on) Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	132322/1745	1:1	0.440	0.02	20.20	21.00	1.202	0.529	22.7
Back side	20	QPSK 50_0	132322/1745	1:1	0.706	0.07	20.20	21.00	1.202	0.849	22.7
Back side	20	QPSK 50_0	132072/1720	1:1	0.711	0.13	20.09	21.00	1.233	0.877	22.7
Back side	20	QPSK 50_0	132572/1770	1:1	0.672	0.14	20.20	21.00	1.202	0.808	22.7
Top side	20	QPSK 50_0	132322/1745	1:1	0.839	0.04	20.20	21.00	1.202	1.009	22.7
Top side	20	QPSK 50_0	132072/1720	1:1	0.866	0.04	20.09	21.00	1.233	1.068	22.7
Top side	20	QPSK 50_0	132572/1770	1:1	0.785	0.00	20.20	21.00	1.202	0.944	22.7
Htpspot (Sensor on) Test data(Separate 10mm 100%RB)											
Back side	20	QPSK 100_0	132322/1745	1:1	0.658	0.16	20.15	21.00	1.216	0.800	22.7
Top side	20	QPSK 100_0	132322/1745	1:1	0.694	-0.14	20.15	21.00	1.216	0.844	22.7
Ant 3 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	0.283	0.17	19.72	20.50	1.197	0.339	22.7
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.078	-0.01	19.72	20.50	1.197	0.093	22.7
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.408	0.16	19.72	20.50	1.197	0.488	22.7
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.093	0.16	19.72	20.50	1.197	0.111	22.7
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.273	-0.17	19.64	20.50	1.219	0.333	22.7
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.081	-0.02	19.64	20.50	1.219	0.099	22.7
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.401	-0.09	19.64	20.50	1.219	0.489	22.7
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.090	0.05	19.64	20.50	1.219	0.110	22.7
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	132322/1745	1:1	0.166	0.11	21.28	22.00	1.180	0.196	22.7
Back side	20	QPSK 1_0	132322/1745	1:1	0.388	-0.16	21.28	22.00	1.180	0.458	22.7
Left side	20	QPSK 1_0	132322/1745	1:1	0.415	-0.10	21.28	22.00	1.180	0.490	22.7
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	132322/1745	1:1	0.157	-0.18	21.14	22.00	1.219	0.191	22.7
Back side	20	QPSK 50_0	132322/1745	1:1	0.377	0.15	21.14	22.00	1.219	0.460	22.7
Left side	20	QPSK 50_0	132322/1745	1:1	0.408	0.18	21.14	22.00	1.219	0.497	22.7

Table 22: SAR of LTE Band 66 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)
Top side	132072/1720	0.904	0.901	1.003329634	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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9.2.1 SAR Result of 5G NR n5

SA N5 SAR Test Record										
Ant1 Test Record										
Test position	BW.	Modulation	Test ch./Freq.	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	0.173	0.05	24.40	25.50	1.288	0.223	22.8
Left tilted	20	QPSK 1_1	167300/836.5	0.100	-0.14	24.40	25.50	1.288	0.129	22.8
Right cheek	20	QPSK 1_1	167300/836.5	0.188	-0.18	24.40	25.50	1.288	0.242	22.8
Right tilted	20	QPSK 1_1	167300/836.5	0.107	0.06	24.40	25.50	1.288	0.138	22.8
Head Test data(50%RB)										
Left cheek	20	QPSK 50_25	167300/836.5	0.192	-0.15	24.29	25.50	1.321	0.254	22.8
Left tilted	20	QPSK 50_25	167300/836.5	0.108	-0.11	24.29	25.50	1.321	0.143	22.8
Right cheek	20	QPSK 50_25	167300/836.5	0.205	0.17	24.29	25.50	1.321	0.271	22.8
Right tilted	20	QPSK 50_25	167300/836.5	0.116	0.06	24.29	25.50	1.321	0.153	22.8
Hotspot Test data(Separate 10mm 1RB)										
Front side	20	QPSK 1_1	167300/836.5	0.232	-0.12	24.40	25.50	1.288	0.299	22.8
Back side	20	QPSK 1_1	167300/836.5	0.366	-0.18	24.40	25.50	1.288	0.471	22.8
Left side	20	QPSK 1_1	167300/836.5	0.112	-0.03	24.40	25.50	1.288	0.144	22.8
Right side	20	QPSK 1_1	167300/836.5	0.176	0.07	24.40	25.50	1.288	0.227	22.8
Bottom side	20	QPSK 1_1	167300/836.5	0.263	-0.17	24.40	25.50	1.288	0.339	22.8
Hotspot Test data (Separate 10mm 50%RB)										
Front side	20	QPSK 50_25	167300/836.5	0.251	0.06	24.29	25.50	1.321	0.332	22.8
Back side	20	QPSK 50_25	167300/836.5	0.387	0.18	24.29	25.50	1.321	0.511	22.8
Left side	20	QPSK 50_25	167300/836.5	0.123	0.10	24.29	25.50	1.321	0.163	22.8
Right side	20	QPSK 50_25	167300/836.5	0.179	-0.14	24.29	25.50	1.321	0.237	22.8
Bottom side	20	QPSK 50_25	167300/836.5	0.269	0.08	24.29	25.50	1.321	0.355	22.8
Ant4 Test Record										
Test position	BW.	Modulation	Test ch./Freq.	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	0.735	0.04	23.10	24.00	1.230	0.904	22.8
Left tilted	20	QPSK 1_1	167300/836.5	0.642	0.00	23.10	24.00	1.230	0.790	22.8
Right cheek	20	QPSK 1_1	167300/836.5	0.808	0.19	23.10	24.00	1.230	0.994	22.8
Right tilted	20	QPSK 1_1	167300/836.5	0.669	-0.11	23.10	24.00	1.230	0.823	22.8
Head Test data(50%RB)										
Left cheek	20	QPSK 50_25	167300/836.5	0.783	-0.08	23.02	24.00	1.253	0.981	22.8
Left tilted	20	QPSK 50_25	167300/836.5	0.669	-0.12	23.02	24.00	1.253	0.838	22.8
Right cheek	20	QPSK 50_25	167300/836.5	0.831	0.04	23.02	24.00	1.253	1.041	22.8
Right cheek - Repeat SAR	20	QPSK 50_25	167300/836.5	0.830	0.01	23.02	24.00	1.253	1.040	22.8
Right tilted	20	QPSK 50_25	167300/836.5	0.688	0.03	23.02	24.00	1.253	0.862	22.8
Head Test data(100%RB)										
Left cheek	20	QPSK 100_0	167300/836.5	0.729	0.05	22.91	24.00	1.285	0.937	22.8
Left tilted	20	QPSK 100_0	167300/836.5	0.605	-0.01	22.91	24.00	1.285	0.778	22.8
Right cheek	20	QPSK 100_0	167300/836.5	0.802	0.03	22.91	24.00	1.285	1.031	22.8
Right tilted	20	QPSK 100_0	167300/836.5	0.663	0.07	22.91	24.00	1.285	0.852	22.8
Hotspot Test data(Separate 10mm 1RB)										
Front side	20	QPSK 1_1	167300/836.5	0.196	-0.11	24.40	25.50	1.288	0.252	22.8
Back side	20	QPSK 1_1	167300/836.5	0.368	-0.15	24.40	25.50	1.288	0.474	22.8
Left side	20	QPSK 1_1	167300/836.5	0.090	0.04	24.40	25.50	1.288	0.116	22.8
Top side	20	QPSK 1_1	167300/836.5	0.201	0.02	24.40	25.50	1.288	0.259	22.8
Hotspot Test data (Separate 10mm 50%RB)										



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Front side	20	QPSK 50_25	167300/836.5	0.223	0.03	24.25	25.50	1.334	0.297	22.8
Back side	20	QPSK 50_25	167300/836.5	0.404	0.07	24.25	25.50	1.334	0.539	22.8
Left side	20	QPSK 50_25	167300/836.5	0.112	-0.06	24.25	25.50	1.334	0.149	22.8
Top side	20	QPSK 50_25	167300/836.5	0.210	0.08	24.25	25.50	1.334	0.280	22.8

Table 23: 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	0.831	0.83	1.001204819	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

9.2.2 SAR Result of 5G NR n7

SA N7 SAR Test Record										
Ant1 Test Record										
Test position	BW.	Modulation	Test ch./Freq.	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	0.128	-0.17	24.77	25.50	1.183	0.151	22.6
Left tilted	50	QPSK 1_1	507000/2535	0.101	0.15	24.77	25.50	1.183	0.119	22.6
Right cheek	50	QPSK 1_1	507000/2535	0.148	0.16	24.77	25.50	1.183	0.175	22.6
Right tilted	50	QPSK 1_1	507000/2535	0.045	0.01	24.77	25.50	1.183	0.053	22.6
Head Test data(50%RB)										
Left cheek	50	QPSK 135_68	507000/2535	0.139	-0.10	24.65	25.50	1.216	0.169	22.6
Left tilted	50	QPSK 135_68	507000/2535	0.110	-0.13	24.65	25.50	1.216	0.134	22.6
Right cheek	50	QPSK 135_68	507000/2535	0.156	0.06	24.65	25.50	1.216	0.190	22.6
Right tilted	50	QPSK 135_68	507000/2535	0.048	0.03	24.65	25.50	1.216	0.058	22.6
Hotspot (Sensor off) Test data(1RB)										
Front side-10mm	50	QPSK 1_1	507000/2535	0.843	0.08	24.77	25.50	1.183	0.997	22.6
Back side-19mm	50	QPSK 1_1	507000/2535	0.420	0.09	24.77	25.50	1.183	0.497	22.6
Left side-10mm	50	QPSK 1_1	507000/2535	0.100	-0.09	24.77	25.50	1.183	0.118	22.6
Right side-10mm	50	QPSK 1_1	507000/2535	0.171	0.05	24.77	25.50	1.183	0.202	22.6
Bottom side-19mm	50	QPSK 1_1	507000/2535	0.431	-0.19	24.77	25.50	1.183	0.510	22.6
Hotspot (Sensor off) Test data(50%RB)										
Front side-10mm	50	QPSK 135_68	507000/2535	0.886	0.06	24.65	25.50	1.216	1.078	22.6
Front side-10mm-Repeat SAR	50	QPSK 135_68	507000/2535	0.884	-0.15	24.65	25.50	1.216	1.075	22.6
Back side-19mm	50	QPSK 135_68	507000/2535	0.439	-0.18	24.65	25.50	1.216	0.534	22.6
Left side-10mm	50	QPSK 135_68	507000/2535	0.155	0.03	24.65	25.50	1.216	0.189	22.6
Right side-10mm	50	QPSK 135_68	507000/2535	0.210	-0.17	24.65	25.50	1.216	0.255	22.6
Bottom side-19mm	50	QPSK 135_68	507000/2535	0.452	-0.11	24.65	25.50	1.216	0.550	22.6
Hotspot (Sensor off) Test data(100%RB)										
Front side-10mm	50	QPSK 270_0	507000/2535	0.858	0.02	23.62	24.50	1.225	1.051	22.6
Hotspot (Sensor on) Test data(Separate 10mm 1RB)										
Back side	50	QPSK 1_1	507000/2535	0.501	0.07	19.76	20.50	1.186	0.594	22.6
Bottom side	50	QPSK 1_1	507000/2535	0.608	0.17	19.76	20.50	1.186	0.721	22.6



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Hptspot (Sensor on) Test data(Separate 10mm 50%RB)										
Back side	50	QPSK 135_68	507000/2535	0.559	-0.09	19.69	20.50	1.205	0.674	22.6
Bottom side	50	QPSK 135_68	507000/2535	0.655	-0.01	19.69	20.50	1.205	0.789	22.6
Ant4 Test Record										
Test position	BW.	Modulation	Test ch./Freq.	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	0.572	0.18	17.19	18.00	1.205	0.689	22.6
Left tilted	50	QPSK 1_1	507000/2535	0.692	0.14	17.19	18.00	1.205	0.834	22.6
Right cheek	50	QPSK 1_1	507000/2535	0.657	0.14	17.19	18.00	1.205	0.792	22.6
Right tilted	50	QPSK 1_1	507000/2535	0.836	-0.15	17.19	18.00	1.205	1.007	22.6
Head Test data(50%RB)										
Left cheek	50	QPSK 135_68	507000/2535	0.608	-0.10	17.08	18.00	1.236	0.751	22.6
Left tilted	50	QPSK 135_68	507000/2535	0.720	-0.03	17.08	18.00	1.236	0.890	22.6
Right cheek	50	QPSK 135_68	507000/2535	0.685	0.00	17.08	18.00	1.236	0.847	22.6
Right tilted	50	QPSK 135_68	507000/2535	0.867	0.09	17.08	18.00	1.236	1.072	22.6
Right tilted - Repeat SAR	50	QPSK 135_68	507000/2535	0.865	0.05	17.08	18.00	1.236	1.069	22.6
Right tilted For ENDC	50	QPSK 135_68	507000/2535	0.867	0.09	17.08	14.50	0.552	0.479	22.6
Head Test data(100%RB)										
Left tilted	50	QPSK 270_0	507000/2535	0.701	0.05	17.01	18.00	1.256	0.880	22.6
Right cheek	50	QPSK 270_0	507000/2535	0.655	0.06	17.01	18.00	1.256	0.823	22.6
Right tilted	50	QPSK 270_0	507000/2535	0.818	-0.07	17.01	18.00	1.256	1.027	22.6
Hotspot (Sensor off) Test data(1RB)										
Front side-10mm	50	QPSK 1_1	507000/2535	0.616	-0.12	23.83	25.00	1.309	0.806	22.6
Back side-18mm	50	QPSK 1_1	507000/2535	0.270	-0.13	23.83	25.00	1.309	0.353	22.6
Left side-10mm	50	QPSK 1_1	507000/2535	0.206	-0.02	23.83	25.00	1.309	0.270	22.6
Top side-17mm	50	QPSK 1_1	507000/2535	0.643	0.03	23.83	25.00	1.309	0.842	22.6
Hotspot (Sensor off) Test data(50%RB)										
Front side-10mm	50	QPSK 135_68	507000/2535	0.655	-0.18	23.71	25.00	1.346	0.882	22.6
Back side-18mm	50	QPSK 135_68	507000/2535	0.255	0.11	23.71	25.00	1.346	0.343	22.6
Left side-10mm	50	QPSK 135_68	507000/2535	0.233	-0.08	23.71	25.00	1.346	0.314	22.6
Top side-17mm	50	QPSK 135_68	507000/2535	0.608	-0.12	23.71	25.00	1.346	0.818	22.6
Hotspot (Sensor off) Test data(100%RB)										
Front side-10mm	50	QPSK 270_0	507000/2535	0.638	-0.10	22.62	24.00	1.374	0.877	22.6
Top side-17mm	50	QPSK 270_0	507000/2535	0.586	0.05	22.62	24.00	1.374	0.805	22.6
Hptspot (Sensor on) Test data(Separate 10mm 1RB)										
Back side	50	QPSK 1_1	507000/2535	0.164	0.14	17.87	19.00	1.297	0.213	22.6
Top side	50	QPSK 1_1	507000/2535	0.209	-0.08	17.87	19.00	1.297	0.271	22.6
Hptspot (Sensor on) Test data(Separate 10mm 50%RB)										
Back side	50	QPSK 135_68	507000/2535	0.183	-0.05	17.83	19.00	1.309	0.240	22.6
Top side	50	QPSK 135_68	507000/2535	0.216	-0.16	17.83	19.00	1.309	0.283	22.6

Table 24: SAR of 5G NR n7 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)
Front side	507000/2535	0.886	0.884	1.002262443	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



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9.2.3 SAR Result of 5G NR n41

SA N41 SAR Test Record											
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	0.143	-0.19	24.41	25.50	1.285	0.184	22.6
Left tilted	100	QPSK 1_1	518598/2592.99	1:1	0.121	-0.10	24.41	25.50	1.285	0.156	22.6
Right cheek	100	QPSK 1_1	518598/2592.99	1:1	0.172	-0.14	24.41	25.50	1.285	0.221	22.6
Right tilted	100	QPSK 1_1	518598/2592.99	1:1	0.061	-0.11	24.41	25.50	1.285	0.078	22.6
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	518598/2592.99	1:1	0.158	0.09	24.38	25.50	1.294	0.204	22.6
Left tilted	100	QPSK 135_69	518598/2592.99	1:1	0.132	0.00	24.38	25.50	1.294	0.171	22.6
Right cheek	100	QPSK 135_69	518598/2592.99	1:1	0.182	-0.19	24.38	25.50	1.294	0.236	22.6
Right tilted	100	QPSK 135_69	518598/2592.99	1:1	0.063	-0.04	24.38	25.50	1.294	0.082	22.6
Hotspot (Sensor off) Test data(1RB)											
Front side-10mm	100	QPSK 1_1	518598/2592.99	1:1	0.774	-0.14	24.41	25.50	1.285	0.995	22.6
Back side-19mm	100	QPSK 1_1	518598/2592.99	1:1	0.508	0.12	24.41	25.50	1.285	0.653	22.6
Left side-10mm	100	QPSK 1_1	518598/2592.99	1:1	0.181	0.12	24.41	25.50	1.285	0.233	22.6
Right side-10mm	100	QPSK 1_1	518598/2592.99	1:1	0.194	-0.15	24.41	25.50	1.285	0.249	22.6
Bottom side-19mm	100	QPSK 1_1	518598/2592.99	1:1	0.548	-0.05	24.41	25.50	1.285	0.704	22.6
Hotspot (Sensor off) Test data(50%RB)											
Front side-10mm	100	QPSK 135_69	518598/2592.99	1:1	0.779	0.08	24.38	25.50	1.294	1.008	22.6
Back side-19mm	100	QPSK 135_69	518598/2592.99	1:1	0.469	0.10	24.38	25.50	1.294	0.607	22.6
Left side-10mm	100	QPSK 135_69	518598/2592.99	1:1	0.191	0.17	24.38	25.50	1.294	0.247	22.6
Right side-10mm	100	QPSK 135_69	518598/2592.99	1:1	0.201	0.14	24.38	25.50	1.294	0.260	22.6
Bottom side-19mm	100	QPSK 135_69	518598/2592.99	1:1	0.511	-0.06	24.38	25.50	1.294	0.661	22.6
Hotspot (Sensor off) Test data(100%RB)											
Front side-10mm	100	QPSK 270_0	518598/2592.99	1:1	0.746	0.08	23.28	24.50	1.324	0.988	22.6
Hptspot (Sensor on) Test data(Separate 10mm 1RB)											
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.284	0.18	19.11	20.00	1.227	0.349	22.6
Bottom side	100	QPSK 1_1	518598/2592.99	1:1	0.438	0.16	19.11	20.00	1.227	0.538	22.6
Hptspot (Sensor on) Test data(Separate 10mm 50%RB)											
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.295	-0.06	18.99	20.00	1.262	0.372	22.6
Bottom side	100	QPSK 135_69	518598/2592.99	1:1	0.442	-0.04	18.99	20.00	1.262	0.558	22.6
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	518598/2592.99	1:1	0.614	-0.12	18.71	19.50	1.199	0.736	22.6
Left tilted	100	QPSK 1_1	518598/2592.99	1:1	0.686	0.01	18.71	19.50	1.199	0.823	22.6
Right cheek	100	QPSK 1_1	518598/2592.99	1:1	0.672	-0.06	18.71	19.50	1.199	0.806	22.6
Right tilted	100	QPSK 1_1	518598/2592.99	1:1	0.838	-0.14	18.71	19.50	1.199	1.005	22.6
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	518598/2592.99	1:1	0.634	-0.02	18.61	19.50	1.227	0.778	22.6
Left tilted	100	QPSK 135_69	518598/2592.99	1:1	0.723	-0.03	18.61	19.50	1.227	0.887	22.6
Right cheek	100	QPSK 135_69	518598/2592.99	1:1	0.702	0.13	18.61	19.50	1.227	0.862	22.6
Right tilted	100	QPSK 135_69	518598/2592.99	1:1	0.882	0.13	18.61	19.50	1.227	1.083	22.6
Right tilted - Repeat SAR	100	QPSK 135_69	518598/2592.99	1:1	0.881	-0.08	18.61	19.50	1.227	1.081	22.6
Head Test data(100%RB)											
Left tilted	100	QPSK 270_0	518598/2592.99	1:1	0.680	0.02	18.66	19.50	1.213	0.825	22.6
Right cheek	100	QPSK 270_0	518598/2592.99	1:1	0.659	-0.16	18.66	19.50	1.213	0.800	22.6
Right tilted	100	QPSK 270_0	518598/2592.99	1:1	0.811	0.05	18.66	19.50	1.213	0.984	22.6
Hotspot (Sensor off) Test data(1RB)											
Front side-10mm	100	QPSK 1_1	518598/2592.99	1:1	0.653	-0.18	23.90	25.00	1.288	0.841	22.6



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Back side-18mm	100	QPSK 1_1	518598/2592.99	1:1	0.430	0.03	23.90	25.00	1.288	0.554	22.6
Left side-10mm	100	QPSK 1_1	518598/2592.99	1:1	0.268	0.17	23.90	25.00	1.288	0.345	22.6
Top side-17mm	100	QPSK 1_1	518598/2592.99	1:1	0.620	-0.09	23.90	25.00	1.288	0.799	22.6
Hotspot (Sensor off) Test data(50%RB)											
Front side-10mm	100	QPSK 135_69	518598/2592.99	1:1	0.686	0.05	23.87	25.00	1.297	0.890	22.6
Back side-18mm	100	QPSK 135_69	518598/2592.99	1:1	0.401	-0.03	23.87	25.00	1.297	0.520	22.6
Left side-10mm	100	QPSK 135_69	518598/2592.99	1:1	0.303	-0.15	23.87	25.00	1.297	0.393	22.6
Top side-17mm	100	QPSK 135_69	518598/2592.99	1:1	0.592	0.14	23.87	25.00	1.297	0.768	22.6
Hotspot (Sensor off) Test data(100%RB)											
Front side-10mm	100	QPSK 270_0	518598/2592.99	1:1	0.655	0.08	22.70	24.00	1.349	0.884	22.6
Hptspot (Sensor on) Test data(Separate 10mm 1RB)											
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.287	0.02	18.71	19.50	1.199	0.344	22.6
Top side	100	QPSK 1_1	518598/2592.99	1:1	0.473	0.04	18.71	19.50	1.199	0.567	22.6
Hptspot (Sensor on) Test data(Separate 10mm 50%RB)											
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.307	0.18	18.61	19.50	1.227	0.377	22.6
Top side	100	QPSK 135_69	518598/2592.99	1:1	0.496	-0.17	18.61	19.50	1.227	0.609	22.6
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	0.174	0.17	19.12	20.00	1.225	0.213	22.6
Left tilted	100	QPSK 1_1	518598/2592.99	1:1	0.049	0.18	19.12	20.00	1.225	0.060	22.6
Right cheek	100	QPSK 1_1	518598/2592.99	1:1	0.365	0.00	19.12	20.00	1.225	0.447	22.6
Right tilted	100	QPSK 1_1	518598/2592.99	1:1	0.087	0.15	19.12	20.00	1.225	0.107	22.6
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	518598/2592.99	1:1	0.188	-0.17	18.91	20.00	1.285	0.242	22.6
Left tilted	100	QPSK 135_69	518598/2592.99	1:1	0.063	0.03	18.91	20.00	1.285	0.081	22.6
Right cheek	100	QPSK 135_69	518598/2592.99	1:1	0.382	0.04	18.91	20.00	1.285	0.491	22.6
Right tilted	100	QPSK 135_69	518598/2592.99	1:1	0.093	0.18	18.91	20.00	1.285	0.120	22.6
Hotspot (Sensor off) Test data(1RB)											
Front side-10mm	100	QPSK 1_1	518598/2592.99	1:1	0.106	0.01	20.89	22.00	1.291	0.137	22.6
Back side-13mm	100	QPSK 1_1	518598/2592.99	1:1	0.377	-0.04	20.89	22.00	1.291	0.487	22.6
Left side-13mm	100	QPSK 1_1	518598/2592.99	1:1	0.285	0.05	20.89	22.00	1.291	0.368	22.6
Hotspot (Sensor off) Test data(50%RB)											
Front side-10mm	100	QPSK 135_69	518598/2592.99	1:1	0.097	0.03	20.85	22.00	1.303	0.126	22.6
Back side-13mm	100	QPSK 135_69	518598/2592.99	1:1	0.352	-0.16	20.85	22.00	1.303	0.459	22.6
Left side-13mm	100	QPSK 135_69	518598/2592.99	1:1	0.266	0.02	20.85	22.00	1.303	0.347	22.6
Hptspot (Sensor on) Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.151	0.08	19.12	20.00	1.225	0.185	22.6
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.405	-0.02	19.12	20.00	1.225	0.496	22.6
Left side	100	QPSK 1_1	518598/2592.99	1:1	0.324	-0.01	19.12	20.00	1.225	0.397	22.6
Hptspot (Sensor on) Test data(Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	518598/2592.99	1:1	0.155	0.07	18.91	20.00	1.285	0.199	22.6
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.413	-0.19	18.91	20.00	1.285	0.531	22.6
Left side	100	QPSK 135_69	518598/2592.99	1:1	0.333	0.07	18.91	20.00	1.285	0.428	22.6
Ant7 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	0.459	-0.02	19.63	20.00	1.089	0.500	22.6
Left tilted	100	QPSK 1_1	518598/2592.99	1:1	0.241	0.00	19.63	20.00	1.089	0.262	22.6
Right cheek	100	QPSK 1_1	518598/2592.99	1:1	0.144	0.12	19.63	20.00	1.089	0.157	22.6
Right tilted	100	QPSK 1_1	518598/2592.99	1:1	0.108	0.02	19.63	20.00	1.089	0.118	22.6
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	518598/2592.99	1:1	0.493	-0.05	19.60	20.00	1.096	0.541	22.6
Left tilted	100	QPSK 135_69	518598/2592.99	1:1	0.257	0.11	19.60	20.00	1.096	0.282	22.6



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Right cheek	100	QPSK 135_69	518598/2592.99	1:1	0.153	-0.01	19.60	20.00	1.096	0.168	22.6
Right tilted	100	QPSK 135_69	518598/2592.99	1:1	0.113	0.16	19.60	20.00	1.096	0.124	22.6
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.132	0.08	19.63	20.00	1.089	0.144	22.6
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.243	0.10	19.63	20.00	1.089	0.265	22.6
Right side	100	QPSK 1_1	518598/2592.99	1:1	0.126	0.17	19.63	20.00	1.089	0.137	22.6
Top side	100	QPSK 1_1	518598/2592.99	1:1	0.071	0.18	19.63	20.00	1.089	0.077	22.6
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	518598/2592.99	1:1	0.145	0.05	19.60	20.00	1.096	0.159	22.6
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.252	-0.14	19.60	20.00	1.096	0.276	22.6
Right side	100	QPSK 135_69	518598/2592.99	1:1	0.131	0.05	19.60	20.00	1.096	0.144	22.6
Top side	100	QPSK 135_69	518598/2592.99	1:1	0.077	-0.19	19.60	20.00	1.096	0.084	22.6

Table 25: SAR of 5G NR n41 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 tilted	518598/2592.99	0.882	0.881	#DIV/0!	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

9.2.4 SAR Result of 5G NR n66

SA N66 SAR Test Record											
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	45	QPSK 1_1	349000/1745	1:1	0.142	-0.12	24.47	25.50	1.268	0.180	22.7
Left tilted	45	QPSK 1_1	349000/1745	1:1	0.120	-0.14	24.47	25.50	1.268	0.152	22.7
Right cheek	45	QPSK 1_1	349000/1745	1:1	0.183	0.16	24.47	25.50	1.268	0.232	22.7
Right tilted	45	QPSK 1_1	349000/1745	1:1	0.141	-0.07	24.47	25.50	1.268	0.179	22.7
Head Test data(50%RB)											
Left cheek	45	QPSK 120_60	349000/1745	1:1	0.145	0.09	24.46	25.50	1.271	0.184	22.7
Left tilted	45	QPSK 120_60	349000/1745	1:1	0.126	0.01	24.46	25.50	1.271	0.160	22.7
Right cheek	45	QPSK 120_60	349000/1745	1:1	0.190	0.06	24.46	25.50	1.271	0.241	22.7
Right tilted	45	QPSK 120_60	349000/1745	1:1	0.145	0.05	24.46	25.50	1.271	0.184	22.7
Hotspot (Sensor off) Test data(1RB)											
Front side-10mm	45	QPSK 1_1	349000/1745	1:1	0.527	0.12	24.47	25.50	1.268	0.668	22.7
Back side-19mm	45	QPSK 1_1	349000/1745	1:1	0.167	0.07	24.47	25.50	1.268	0.212	22.7
Left side-10mm	45	QPSK 1_1	349000/1745	1:1	0.220	-0.05	24.47	25.50	1.268	0.279	22.7
Right side-10mm	45	QPSK 1_1	349000/1745	1:1	0.113	-0.13	24.47	25.50	1.268	0.143	22.7
Bottom side-19mm	45	QPSK 1_1	349000/1745	1:1	0.136	0.01	24.47	25.50	1.268	0.172	22.7
Hotspot (Sensor off) Test data(50%RB)											
Front side-10mm	45	QPSK 120_60	349000/1745	1:1	0.552	0.02	24.46	25.50	1.271	0.701	22.7
Back side-19mm	45	QPSK 120_60	349000/1745	1:1	0.152	-0.10	24.46	25.50	1.271	0.193	22.7
Left side-10mm	45	QPSK 120_60	349000/1745	1:1	0.239	0.08	24.46	25.50	1.271	0.304	22.7
Right side-10mm	45	QPSK 120_60	349000/1745	1:1	0.120	0.18	24.46	25.50	1.271	0.152	22.7
Bottom side-19mm	45	QPSK 120_60	349000/1745	1:1	0.116	-0.18	24.46	25.50	1.271	0.147	22.7
Hotspot (Sensor on) Test data(Separate 10mm 1RB)											
Back side	45	QPSK 1_1	349000/1745	1:1	0.322	-0.19	20.66	21.50	1.213	0.391	22.7



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Bottom side	45	QPSK 1_1	349000/1745	1:1	0.605	0.07	20.66	21.50	1.213	0.734	22.7
Htpspot (Sensor on) Test data(Separate 10mm 50%RB)											
Back side	45	QPSK 120_60	349000/1745	1:1	0.327	-0.01	20.52	21.50	1.253	0.410	22.7
Bottom side	45	QPSK 120_60	349000/1745	1:1	0.616	-0.15	20.52	21.50	1.253	0.772	22.7
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	45	QPSK 1_1	349000/1745	1:1	0.507	-0.17	16.57	17.50	1.239	0.628	22.7
Left tilted	45	QPSK 1_1	349000/1745	1:1	0.548	-0.09	16.57	17.50	1.239	0.679	22.7
Right cheek	45	QPSK 1_1	349000/1745	1:1	0.723	-0.08	16.57	17.50	1.239	0.896	22.7
Right tilted	45	QPSK 1_1	349000/1745	1:1	0.804	0.05	16.57	17.50	1.239	0.996	22.7
Head Test data(50%RB)											
Left cheek	45	QPSK 120_60	349000/1745	1:1	0.519	-0.12	16.53	17.50	1.250	0.649	22.7
Left tilted	45	QPSK 120_60	349000/1745	1:1	0.563	-0.13	16.53	17.50	1.250	0.704	22.7
Right cheek	45	QPSK 120_60	349000/1745	1:1	0.751	0.11	16.53	17.50	1.250	0.939	22.7
Right tilted	45	QPSK 120_60	349000/1745	1:1	0.824	0.15	16.53	17.50	1.250	1.030	22.7
Right tilted - Repeat SAR	45	QPSK 120_60	349000/1745	1:1	0.821	0.07	16.53	17.50	1.250	1.026	22.7
Head Test data(100%RB)											
Right cheek	45	QPSK 240_0	349000/1745	1:1	0.716	-0.16	16.53	17.50	1.250	0.895	22.7
Right tilted	45	QPSK 240_0	349000/1745	1:1	0.808	0.09	16.53	17.50	1.250	1.010	22.7
Hotspot (Sensor off) Test data(1RB)											
Front side-12mm	45	QPSK 1_1	349000/1745	1:1	0.698	-0.08	23.89	25.00	1.291	0.901	22.7
Back side-18mm	45	QPSK 1_1	349000/1745	1:1	0.407	0.01	23.89	25.00	1.291	0.526	22.7
Left side-10mm	45	QPSK 1_1	349000/1745	1:1	0.150	-0.15	23.89	25.00	1.291	0.194	22.7
Top side-17mm	45	QPSK 1_1	349000/1745	1:1	0.724	-0.02	23.89	25.00	1.291	0.935	22.7
Hotspot (Sensor off) Test data(50%RB)											
Front side-12mm	45	QPSK 120_60	349000/1745	1:1	0.658	-0.13	23.78	25.00	1.324	0.871	22.7
Back side-18mm	45	QPSK 120_60	349000/1745	1:1	0.389	-0.01	23.78	25.00	1.324	0.515	22.7
Left side-10mm	45	QPSK 120_60	349000/1745	1:1	0.156	-0.07	23.78	25.00	1.324	0.207	22.7
Top side-17mm	45	QPSK 120_60	349000/1745	1:1	0.705	0.04	23.78	25.00	1.324	0.934	22.7
Hotspot (Sensor off) Test data(100%RB)											
Front side-12mm	45	QPSK 240_0	349000/1745	1:1	0.644	0.02	22.66	24.00	1.361	0.877	22.7
Top side-17mm	45	QPSK 240_0	349000/1745	1:1	0.681	-0.04	22.66	24.00	1.361	0.927	22.7
Htpspot (Sensor on) Test data(Separate 10mm 1RB)											
Front side	45	QPSK 1_1	349000/1745	1:1	0.448	0.18	19.12	20.00	1.225	0.549	22.7
Back side	45	QPSK 1_1	349000/1745	1:1	0.682	0.17	19.12	20.00	1.225	0.835	22.7
Top side	45	QPSK 1_1	349000/1745	1:1	0.852	0.10	19.12	20.00	1.225	1.043	22.7
Htpspot (Sensor on) Test data(Separate 10mm 50%RB)											
Front side	45	QPSK 120_60	349000/1745	1:1	0.453	-0.10	19.01	20.00	1.256	0.569	22.7
Back side	45	QPSK 120_60	349000/1745	1:1	0.712	0.08	19.01	20.00	1.256	0.894	22.7
Top side	45	QPSK 120_60	349000/1745	1:1	0.866	-0.06	19.01	20.00	1.256	1.088	22.7
Top side-Repeat SAR	45	QPSK 120_60	349000/1745	1:1	0.863	0.07	19.01	20.00	1.256	1.084	22.7
Htpspot (Sensor on) Test data(Separate 10mm 100%RB)											
Back side	45	QPSK 120_60	349000/1745	1:1	0.704	0.04	19.01	20.00	1.256	0.884	22.7
Top side	45	QPSK 120_60	349000/1745	1:1	0.847	0.03	19.01	20.00	1.256	1.064	22.7

Table 26: SAR of 5G NR n66 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)
Top side	349000/1745	0.866	0.863	1.003476246	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 .



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

9.2.5 SAR Result of 5G NR n77(3450~3550)

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_1	633334/3500	1:1	0.085	0.16	20.68	21.00	1.076	0.091	22.5
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.080	-0.09	20.68	21.00	1.076	0.086	22.5
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.273	0.03	20.68	21.00	1.076	0.294	22.5
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.157	0.02	20.68	21.00	1.076	0.169	22.5
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	633334/3500	1:1	0.100	0.12	20.64	21.00	1.086	0.109	22.5
Left tilted	100	QPSK 135_69	633334/3500	1:1	0.088	-0.15	20.64	21.00	1.086	0.096	22.5
Right cheek	100	QPSK 135_69	633334/3500	1:1	0.303	-0.10	20.64	21.00	1.086	0.329	22.5
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.174	0.12	20.64	21.00	1.086	0.189	22.5
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.043	-0.16	17.63	18.00	1.089	0.047	22.5
Back side	100	QPSK 1_1	633334/3500	1:1	0.305	-0.13	17.63	18.00	1.089	0.332	22.5
Left side	100	QPSK 1_1	633334/3500	1:1	0.219	0.06	17.63	18.00	1.089	0.238	22.5
Top side	100	QPSK 1_1	633334/3500	1:1	0.052	-0.05	17.63	18.00	1.089	0.057	22.5
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.053	0.07	17.55	18.00	1.109	0.059	22.5
Back side	100	QPSK 135_69	633334/3500	1:1	0.317	-0.15	17.55	18.00	1.109	0.352	22.5
Left side	100	QPSK 135_69	633334/3500	1:1	0.234	-0.05	17.55	18.00	1.109	0.260	22.5
Top side	100	QPSK 135_69	633334/3500	1:1	0.057	-0.14	17.55	18.00	1.109	0.063	22.5
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	633334/3500	1:1	0.130	-0.06	17.10	17.50	1.096	0.143	22.5
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.032	-0.07	17.10	17.50	1.096	0.035	22.5
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.215	0.15	17.10	17.50	1.096	0.236	22.5
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.057	0.04	17.10	17.50	1.096	0.062	22.5
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	633334/3500	1:1	0.128	0.01	16.99	17.50	1.125	0.144	22.5
Left tilted	100	QPSK 135_69	633334/3500	1:1	0.031	0.02	16.99	17.50	1.125	0.035	22.5
Right cheek	100	QPSK 135_69	633334/3500	1:1	0.303	0.09	16.99	17.50	1.125	0.341	22.5
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.054	-0.12	16.99	17.50	1.125	0.061	22.5
Hotspot (Sensor off) Test data(1RB)											
Front side-10mm	100	QPSK 1_1	633334/3500	1:1	0.081	-0.08	20.01	20.50	1.119	0.091	22.5
Back side-13mm	100	QPSK 1_1	633334/3500	1:1	0.206	0.01	20.01	20.50	1.119	0.231	22.5
Left side-13mm	100	QPSK 1_1	633334/3500	1:1	0.251	-0.15	20.01	20.50	1.119	0.281	22.5
Hotspot (Sensor off) Test data(50%RB)											
Front side-10mm	100	QPSK 135_69	633334/3500	1:1	0.075	0.11	19.90	20.50	1.148	0.086	22.5
Back side-13mm	100	QPSK 135_69	633334/3500	1:1	0.197	-0.08	19.90	20.50	1.148	0.226	22.5
Left side-13mm	100	QPSK 135_69	633334/3500	1:1	0.236	-0.12	19.90	20.50	1.148	0.271	22.5
Hptspot (Sensor on) Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.086	-0.15	17.10	17.50	1.096	0.094	22.5
Back side	100	QPSK 1_1	633334/3500	1:1	0.228	0.13	17.10	17.50	1.096	0.250	22.5



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Left side	100	QPSK 1_1	633334/3500	1:1	0.281	0.12	17.10	17.50	1.096	0.308	22.5
Hptspot (Sensor on) Test data(Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.092	-0.04	16.99	17.50	1.125	0.103	22.5
Back side	100	QPSK 135_69	633334/3500	1:1	0.237	-0.02	16.99	17.50	1.125	0.267	22.5
Left side	100	QPSK 135_69	633334/3500	1:1	0.287	0.11	16.99	17.50	1.125	0.323	22.5
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	0.279	0.18	15.12	15.50	1.091	0.305	22.5
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.287	-0.03	15.12	15.50	1.091	0.313	22.5
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.212	0.01	15.12	15.50	1.091	0.231	22.5
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.175	0.17	15.12	15.50	1.091	0.191	22.5
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	633334/3500	1:1	0.291	0.17	15.05	15.50	1.109	0.323	22.5
Left tilted	100	QPSK 135_69	633334/3500	1:1	0.297	-0.03	15.05	15.50	1.109	0.329	22.5
Right cheek	100	QPSK 135_69	633334/3500	1:1	0.197	0.14	15.05	15.50	1.109	0.219	22.5
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.208	-0.14	15.05	15.50	1.109	0.231	22.5
Hotspot (Sensor off) Test data(1RB)											
Front side-12mm	100	QPSK 1_1	633334/3500	1:1	0.169	0.02	21.08	21.50	1.102	0.186	22.5
Back side-18mm	100	QPSK 1_1	633334/3500	1:1	0.205	-0.06	21.08	21.50	1.102	0.226	22.5
Top side-17mm	100	QPSK 1_1	633334/3500	1:1	0.322	0.07	21.08	21.50	1.102	0.355	22.5
Hotspot (Sensor off) Test data(50%RB)											
Front side-12mm	100	QPSK 135_69	633334/3500	1:1	0.170	0.01	20.98	21.50	1.127	0.192	22.5
Back side-18mm	100	QPSK 135_69	633334/3500	1:1	0.203	-0.05	20.98	21.50	1.127	0.229	22.5
Top side-17mm	100	QPSK 135_69	633334/3500	1:1	0.308	0.16	20.98	21.50	1.127	0.347	22.5
Hptspot (Sensor on) Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.122	0.18	18.21	18.50	1.069	0.130	22.5
Back side	100	QPSK 1_1	633334/3500	1:1	0.213	0.11	18.21	18.50	1.069	0.228	22.5
Top side	100	QPSK 1_1	633334/3500	1:1	0.311	0.17	18.21	18.50	1.069	0.332	22.5
Hptspot (Sensor on) Test data(Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.126	0.16	17.96	18.50	1.132	0.143	22.5
Back side	100	QPSK 135_69	633334/3500	1:1	0.226	-0.09	17.96	18.50	1.132	0.256	22.5
Top side	100	QPSK 135_69	633334/3500	1:1	0.257	-0.05	17.96	18.50	1.132	0.291	22.5
Ant7 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	0.792	-0.01	16.66	17.50	1.213	0.961	22.5
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.448	0.14	16.66	17.50	1.213	0.544	22.5
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.275	-0.17	16.66	17.50	1.213	0.334	22.5
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.240	-0.18	16.66	17.50	1.213	0.291	22.5
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	633334/3500	1:1	0.833	0.03	16.54	17.50	1.247	1.039	22.5
Left cheek-Repeat SAR	100	QPSK 135_69	633334/3500	1:1	0.831	0.09	16.54	17.50	1.247	1.037	22.5
Left tilted	100	QPSK 135_69	633334/3500	1:1	0.503	0.00	16.54	17.50	1.247	0.627	22.5
Right cheek	100	QPSK 135_69	633334/3500	1:1	0.292	-0.03	16.54	17.50	1.247	0.364	22.5
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.250	0.11	16.54	17.50	1.247	0.312	22.5
Head Test data(100%RB)											
Left cheek	100	QPSK 270_0	633334/3500	1:1	0.802	0.05	16.53	17.50	1.250	1.003	22.5
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.372	-0.19	20.10	21.00	1.230	0.458	22.5
Back side	100	QPSK 1_1	633334/3500	1:1	0.485	0.14	20.10	21.00	1.230	0.597	22.5



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Right side	100	QPSK 1_1	633334/3500	1:1	0.241	0.02	20.10	21.00	1.230	0.296	22.5
Top side	100	QPSK 1_1	633334/3500	1:1	0.281	0.00	20.10	21.00	1.230	0.346	22.5
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.386	0.13	20.08	21.00	1.236	0.477	22.5
Back side	100	QPSK 135_69	633334/3500	1:1	0.508	-0.09	20.08	21.00	1.236	0.628	22.5
Right side	100	QPSK 135_69	633334/3500	1:1	0.261	-0.10	20.08	21.00	1.236	0.323	22.5
Top side	100	QPSK 135_69	633334/3500	1:1	0.289	-0.16	20.08	21.00	1.236	0.357	22.5

Table 27: SAR of 5G NR n77(3450~3550) 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)
Left cheek	633334/3500	0.833	0.831	1.00240673886883	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

9.2.6 SAR Result of 5G NR n77(3700~3980)

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_1	656000/3840	1:1	0.098	0.08	20.66	21.00	1.081	0.106	22.9
Left tilted	100	QPSK 1_1	656000/3840	1:1	0.074	0.11	20.66	21.00	1.081	0.080	22.9
Right cheek	100	QPSK 1_1	656000/3840	1:1	0.511	0.17	20.66	21.00	1.081	0.553	22.9
Right tilted	100	QPSK 1_1	656000/3840	1:1	0.177	-0.06	20.66	21.00	1.081	0.191	22.9
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	656000/3840	1:1	0.093	-0.06	20.65	21.00	1.084	0.101	22.9
Left tilted	100	QPSK 135_69	656000/3840	1:1	0.079	-0.19	20.65	21.00	1.084	0.086	22.9
Right cheek	100	QPSK 135_69	656000/3840	1:1	0.469	0.04	20.65	21.00	1.084	0.508	22.9
Right tilted	100	QPSK 135_69	656000/3840	1:1	0.231	0.01	20.65	21.00	1.084	0.250	22.9
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	656000/3840	1:1	0.068	-0.18	17.68	18.00	1.076	0.073	22.9
Back side	100	QPSK 1_1	656000/3840	1:1	0.694	-0.09	17.68	18.00	1.076	0.747	22.9
Left side	100	QPSK 1_1	656000/3840	1:1	0.392	-0.17	17.68	18.00	1.076	0.422	22.9
Top side	100	QPSK 1_1	656000/3840	1:1	0.075	0.02	17.68	18.00	1.076	0.081	22.9
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	656000/3840	1:1	0.075	0.16	17.50	18.00	1.122	0.084	22.9
Back side	100	QPSK 135_69	656000/3840	1:1	0.710	0.04	17.50	18.00	1.122	0.797	22.9
Left side	100	QPSK 135_69	656000/3840	1:1	0.397	0.03	17.50	18.00	1.122	0.445	22.9
Top side	100	QPSK 135_69	656000/3840	1:1	0.077	0.16	17.50	18.00	1.122	0.086	22.9
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	656000/3840	1:1	0.148	-0.14	17.07	17.50	1.104	0.163	22.9
Left tilted	100	QPSK 1_1	656000/3840	1:1	0.011	0.00	17.07	17.50	1.104	0.012	22.9
Right cheek	100	QPSK 1_1	656000/3840	1:1	0.368	-0.12	17.07	17.50	1.104	0.406	22.9
Right tilted	100	QPSK 1_1	656000/3840	1:1	0.023	0.00	17.07	17.50	1.104	0.025	22.9
Head Test data(50%RB)											



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Left cheek	100	QPSK 135_69	656000/3840	1:1	0.161	-0.17	16.98	17.50	1.127	0.181	22.9
Left tilted	100	QPSK 135_69	656000/3840	1:1	0.033	-0.16	16.98	17.50	1.127	0.037	22.9
Right cheek	100	QPSK 135_69	656000/3840	1:1	0.342	-0.02	16.98	17.50	1.127	0.386	22.9
Right tilted	100	QPSK 135_69	656000/3840	1:1	0.041	0.00	16.98	17.50	1.127	0.046	22.9
Hotspot (Sensor off) Test data(1RB)											
Front side-10mm	100	QPSK 1_1	656000/3840	1:1	0.086	0.08	19.96	20.50	1.132	0.097	22.9
Back side-13mm	100	QPSK 1_1	656000/3840	1:1	0.203	0.02	19.96	20.50	1.132	0.230	22.9
Left side-13mm	100	QPSK 1_1	656000/3840	1:1	0.355	-0.11	19.96	20.50	1.132	0.402	22.9
Hotspot (Sensor off) Test data(50%RB)											
Front side-10mm	100	QPSK 135_69	656000/3840	1:1	0.092	-0.09	19.95	20.50	1.135	0.104	22.9
Back side-13mm	100	QPSK 135_69	656000/3840	1:1	0.211	-0.17	19.95	20.50	1.135	0.239	22.9
Left side-13mm	100	QPSK 135_69	656000/3840	1:1	0.363	0.16	19.95	20.50	1.135	0.412	22.9
Htpspot (Sensor on) Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	656000/3840	1:1	0.104	0.09	17.07	17.50	1.104	0.115	22.9
Back side	100	QPSK 1_1	656000/3840	1:1	0.228	0.00	17.07	17.50	1.104	0.252	22.9
Left side	100	QPSK 1_1	656000/3840	1:1	0.384	0.01	17.07	17.50	1.104	0.424	22.9
Htpspot (Sensor on) Test data(Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	656000/3840	1:1	0.112	0.11	16.98	17.50	1.127	0.126	22.9
Back side	100	QPSK 135_69	656000/3840	1:1	0.238	0.16	16.98	17.50	1.127	0.268	22.9
Left side	100	QPSK 135_69	656000/3840	1:1	0.399	-0.05	16.98	17.50	1.127	0.450	22.9
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	656000/3840	1:1	0.572	0.08	15.05	15.50	1.109	0.634	22.9
Left tilted	100	QPSK 1_1	656000/3840	1:1	0.809	0.04	15.05	15.50	1.109	0.897	22.9
Left tilted - Repeat SAR	100	QPSK 1_1	656000/3840	1:1	0.807	0.01	15.05	15.50	1.109	0.895	22.9
Left tilted For ENDC	100	QPSK 1_1	656000/3840	1:1	0.809	0.04	15.05	12.50	0.556	0.450	22.9
Right cheek	100	QPSK 1_1	656000/3840	1:1	0.275	-0.11	15.05	15.50	1.109	0.305	22.9
Right tilted	100	QPSK 1_1	656000/3840	1:1	0.435	-0.07	15.05	15.50	1.109	0.482	22.9
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	656000/3840	1:1	0.666	-0.17	15.03	15.50	1.114	0.742	22.9
Left tilted	100	QPSK 135_69	656000/3840	1:1	0.729	0.11	15.03	15.50	1.114	0.812	22.9
Right cheek	100	QPSK 135_69	656000/3840	1:1	0.393	0.04	15.03	15.50	1.114	0.438	22.9
Right tilted	100	QPSK 135_69	656000/3840	1:1	0.461	-0.13	15.03	15.50	1.114	0.514	22.9
Head Test data(100%RB)											
Left tilted	100	QPSK 270_0	656000/3840	1:1	0.712	0.02	15.00	15.50	1.122	0.799	22.9
Hotspot Test data(Separate 10mm 1RB)											
Front side-12mm	100	QPSK 1_1	656000/3840	1:1	0.246	-0.03	21.03	21.50	1.114	0.274	22.9
Back side-18mm	100	QPSK 1_1	656000/3840	1:1	0.428	0.05	21.03	21.50	1.114	0.477	22.9
Top side-17mm	100	QPSK 1_1	656000/3840	1:1	0.555	0.12	21.03	21.50	1.114	0.618	22.9
Hotspot Test data (Separate 10mm 50%RB)											
Front side-12mm	100	QPSK 135_69	656000/3840	1:1	0.232	0.01	20.98	21.50	1.127	0.262	22.9
Back side-18mm	100	QPSK 135_69	656000/3840	1:1	0.418	0.08	20.98	21.50	1.127	0.471	22.9
Top side-17mm	100	QPSK 135_69	656000/3840	1:1	0.543	0.02	20.98	21.50	1.127	0.612	22.9
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	656000/3840	1:1	0.224	0.09	18.18	18.50	1.076	0.241	22.9
Back side	100	QPSK 1_1	656000/3840	1:1	0.309	0.19	18.18	18.50	1.076	0.333	22.9
Top side	100	QPSK 1_1	656000/3840	1:1	0.443	-0.18	18.18	18.50	1.076	0.477	22.9
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	656000/3840	1:1	0.235	-0.06	18.05	18.50	1.109	0.261	22.9
Back side	100	QPSK 135_69	656000/3840	1:1	0.326	-0.13	18.05	18.50	1.109	0.362	22.9
Top side	100	QPSK 135_69	656000/3840	1:1	0.454	-0.09	18.05	18.50	1.109	0.504	22.9
Ant7 Test Record											



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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	656000/3840	1:1	0.512	-0.02	16.58	17.50	1.236	0.633	22.9
Left tilted	100	QPSK 1_1	656000/3840	1:1	0.294	0.07	16.58	17.50	1.236	0.363	22.9
Right cheek	100	QPSK 1_1	656000/3840	1:1	0.198	0.16	16.58	17.50	1.236	0.245	22.9
Right tilted	100	QPSK 1_1	656000/3840	1:1	0.147	0.13	16.58	17.50	1.236	0.182	22.9
Head Test data(50%RB)											
Left cheek	100	QPSK 135_69	656000/3840	1:1	0.500	0.04	16.47	17.50	1.268	0.634	22.9
Left tilted	100	QPSK 135_69	656000/3840	1:1	0.305	0.16	16.47	17.50	1.268	0.387	22.9
Right cheek	100	QPSK 135_69	656000/3840	1:1	0.145	-0.09	16.47	17.50	1.268	0.184	22.9
Right tilted	100	QPSK 135_69	656000/3840	1:1	0.133	-0.14	16.47	17.50	1.268	0.169	22.9
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	656000/3840	1:1	0.235	-0.16	20.11	21.00	1.227	0.288	22.9
Back side	100	QPSK 1_1	656000/3840	1:1	0.578	-0.14	20.11	21.00	1.227	0.709	22.9
Right side	100	QPSK 1_1	656000/3840	1:1	0.364	-0.16	20.11	21.00	1.227	0.447	22.9
Top side	100	QPSK 1_1	656000/3840	1:1	0.219	0.07	20.11	21.00	1.227	0.269	22.9
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	656000/3840	1:1	0.264	0.03	20.10	21.00	1.230	0.325	22.9
Back side	100	QPSK 135_69	656000/3840	1:1	0.616	-0.03	20.10	21.00	1.230	0.758	22.9
Right side	100	QPSK 135_69	656000/3840	1:1	0.379	-0.09	20.10	21.00	1.230	0.466	22.9
Top side	100	QPSK 135_69	656000/3840	1:1	0.234	0.06	20.10	21.00	1.230	0.288	22.9

Table 28: SAR of 5G NR n77(3700~3980) 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 tilted	656000/3840	0.809	0.807	1.002478315	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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9.2.7 SAR Result of WIFI 2.4G

Wi-Fi 2.4G SAR Test Record												
Ant6 Test Record chain0												
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 For Receiver on												
Left cheek	802.11b	11/2462	99.64%	1.004	0.360	-0.06	15.33	16.50	1.309	0.473	22.7	
Left tilted	802.11b	11/2462	99.64%	1.004	0.368	-0.03	15.33	16.50	1.309	0.484	22.7	
Right cheek	802.11b	11/2462	99.64%	1.004	0.110	0.02	15.33	16.50	1.309	0.145	22.7	
Right tilted	802.11b	11/2462	99.64%	1.004	0.180	0.07	15.33	16.50	1.309	0.237	22.7	
Hotspot Test data (Separate 10mm)												
Front side	802.11b	11/2462	99.64%	1.004	0.155	0.15	17.23	18.50	1.340	0.208	22.7	
Back side	802.11b	11/2462	99.64%	1.004	0.315	0.03	17.23	18.50	1.340	0.424	22.7	
Right side	802.11b	11/2462	99.64%	1.004	0.125	0.03	17.23	18.50	1.340	0.168	22.7	
Top side	802.11b	11/2462	99.64%	1.004	0.142	0.05	17.23	18.50	1.340	0.191	22.7	

Table 29: SAR of WIFI 2.4G for Head and Body.

Note: 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 ≤ 1.2 W/kg, SAR test for the other 802.11 modes are not required.

9.2.1 SAR Result of WIFI 5G

Wi-Fi 5G SAR Test Record												
Ant6 Test Record chain0												
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-1 For Receiver on												
Left cheek	802.11ac-40	38/5190	94.20%	1.062	0.278	0.06	12.43	13.50	1.279	0.378	22.8	
Left tilted	802.11ac-40	38/5190	94.20%	1.062	0.366	0.04	12.43	13.50	1.279	0.497	22.8	
Right cheek	802.11ac-40	38/5190	94.20%	1.062	0.206	0.10	12.43	13.50	1.279	0.280	22.8	
Right tilted	802.11ac-40	38/5190	94.20%	1.062	0.257	-0.08	12.43	13.50	1.279	0.349	22.8	
Head Test data of U-NII-2C For Receiver on												
Left cheek	802.11ac-40	134/5670	94.20%	1.062	0.206	-0.09	13.12	14.50	1.374	0.300	22.8	
Left tilted	802.11ac-40	134/5670	94.20%	1.062	0.289	0.01	13.12	14.50	1.374	0.422	22.8	
Right cheek	802.11ac-40	134/5670	94.20%	1.062	0.153	0.04	13.12	14.50	1.374	0.223	22.8	
Right tilted	802.11ac-40	134/5670	94.20%	1.062	0.194	0.03	13.12	14.50	1.374	0.283	22.8	
Head Test data of U-NII-3 For Receiver on												
Left cheek	802.11ac-40	151/5755	94.20%	1.062	0.251	-0.02	13.15	14.50	1.365	0.364	22.8	
Left tilted	802.11ac-40	151/5755	94.20%	1.062	0.302	0.02	13.15	14.50	1.365	0.437	22.8	
Right cheek	802.11ac-40	151/5755	94.20%	1.062	0.180	0.08	13.15	14.50	1.365	0.261	22.8	
Right tilted	802.11ac-40	151/5755	94.20%	1.062	0.204	-0.05	13.15	14.50	1.365	0.296	22.8	
Body worn Test data of U-NII-2A(Separate 10mm)												
Front side	802.11ac-40	54/5270	94.20%	1.062	0.104	-0.15	14.13	15.50	1.371	0.151	22.8	
Back side	802.11ac-40	54/5270	94.20%	1.062	0.237	0.09	14.13	15.50	1.371	0.345	22.8	
Body worn Test data of U-NII-2C(Separate 10mm)												
Front side	802.11ac-40	134/5670	94.20%	1.062	0.079	0.08	14.09	15.50	1.384	0.116	22.8	
Back side	802.11ac-40	134/5670	94.20%	1.062	0.198	0.01	14.09	15.50	1.384	0.291	22.8	
Body worn Test data of U-NII-3(Separate 10mm)												



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Front side	802.11ac-40	151/5755	94.20%	1.062	0.081	0.02	14.21	15.50	1.346	0.116	22.8
Back side	802.11ac-40	151/5755	94.20%	1.062	0.222	0.05	14.21	15.50	1.346	0.317	22.8
Hotspot Test data of U-NII-1(Separate 10mm)											
Front side	802.11ac-40	38/5190	94.20%	1.062	0.077	-0.03	14.48	15.50	1.265	0.103	22.8
Back side	802.11ac-40	38/5190	94.20%	1.062	0.179	0.06	14.48	15.50	1.265	0.240	22.8
Right side	802.11ac-40	38/5190	94.20%	1.062	0.114	-0.17	14.48	15.50	1.265	0.153	22.8
Top side	802.11ac-40	38/5190	94.20%	1.062	0.286	0.08	14.48	15.50	1.265	0.384	22.8
Hotspot Test data of U-NII-3(Separate 10mm)											
Front side	802.11ac-40	151/5755	94.20%	1.062	0.081	0.02	14.21	15.50	1.346	0.116	22.8
Back side	802.11ac-40	151/5755	94.20%	1.062	0.222	0.05	14.21	15.50	1.346	0.317	22.8
Right side	802.11ac-40	151/5755	94.20%	1.062	0.071	-0.18	14.21	15.50	1.346	0.101	22.8
Top side	802.11ac-40	151/5755	94.20%	1.062	0.249	0.15	14.21	15.50	1.346	0.356	22.8
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-2A(Separate 0mm)											
Front side	802.11ac-40	54/5270	94.20%	1.062	0.227	0.04	14.13	15.50	1.371	0.330	22.8
Back side	802.11ac-40	54/5270	94.20%	1.062	0.292	-0.04	14.13	15.50	1.371	0.425	22.8
Right side	802.11ac-40	54/5270	94.20%	1.062	0.174	0.18	14.13	15.50	1.371	0.253	22.8
Top side	802.11ac-40	54/5270	94.20%	1.062	0.517	-0.04	14.13	15.50	1.371	0.752	22.8
Product specific 10gSAR Test data of U-NII-2C(Separate 0mm)											
Front side	802.11ac-40	134/5670	94.20%	1.062	0.136	0.09	14.09	15.50	1.384	0.200	22.8
Back side	802.11ac-40	134/5670	94.20%	1.062	0.236	0.04	14.09	15.50	1.384	0.347	22.8
Right side	802.11ac-40	134/5670	94.20%	1.062	0.111	0.02	14.09	15.50	1.384	0.163	22.8
Top side	802.11ac-40	134/5670	94.20%	1.062	0.264	0.04	14.09	15.50	1.384	0.388	22.8

Table 30: 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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9.2.2 SAR Result of BT

Bluetooth SAR Test Record											
Ant6 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	76.80%	1.302	0.068	-0.05	10.87	11.50	1.156	0.102	22.7
Left tilted	DH5	78/2480	76.80%	1.302	0.078	0.04	10.87	11.50	1.156	0.117	22.7
Right cheek	DH5	78/2480	76.80%	1.302	0.008	-0.09	10.87	11.50	1.156	0.012	22.7
Right tilted	DH5	78/2480	76.80%	1.302	0.011	0.05	10.87	11.50	1.156	0.017	22.7
Hotspot Test data (Separate 10mm)											
Front side	DH5	78/2480	76.80%	1.302	0.021	0.01	10.87	11.50	1.156	0.032	22.7
Back side	DH5	78/2480	76.80%	1.302	0.046	0.04	10.87	11.50	1.156	0.069	22.7
Right side	DH5	78/2480	76.80%	1.302	0.012	0.11	10.87	11.50	1.156	0.018	22.7
Top side	DH5	78/2480	76.80%	1.302	0.016	0.17	10.87	11.50	1.156	0.024	22.7

Table 31: SAR of BT for Head and Body.



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9.2.3 SAR Result of NFC

NFC SAR Test Record									
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
NFC Test data (Separate 0mm)									
Front side	NFC	13.56MHz	100.00%	1.000	0.001	0.03	1.000	0.001	22.5
Back side	NFC	13.56MHz	100.00%	1.000	0.035	0.01	1.000	0.035	22.5
Left side	NFC	13.56MHz	100.00%	1.000	0.003	0.02	1.000	0.003	22.5
Right side	NFC	13.56MHz	100.00%	1.000	0.001	-0.04	1.000	0.001	22.5
Top side	NFC	13.56MHz	100.00%	1.000	0.001	0.18	1.000	0.001	22.5
Bottom side	NFC	13.56MHz	100.00%	1.000	0.001	-0.16	1.000	0.001	22.5

Table 32: SAR of NFC for Body.



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9.3 Multiple Transmitter Evaluation

9.3.1 Simultaneous SAR test evaluation

•Simultaneous Transmission Possibilities

NO	Simultaneous Tx Combination	Head	Body- worn	Hotspot	Product Specific 10-g (0mm)
1	2G/3G+WLAN	Y	Y	Y	Y
2	2G/3G+BT	Y	Y	Y	Y
3	4G+WLAN	Y	Y	Y	Y
4	4G+BT	Y	Y	Y	Y
5	WWAN + WLAN2.4GHz SISO/MIMO	Y	Y	Y	Y
6	WWAN+ WLAN5GHz SISO/MIMO	Y	Y	Y	Y

Note:

- 1) The device support DTM function.
- 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) NFC is different from the working scenario of WWAN/WIFI and does not participate in the simultaneous transmission.
- 4) Per FCC KDB Publication 648474 D04 Handset SAR, Phablet SAR tests were not required it wireless router 1g SAR(Scaled to the maximum output power ,including tolerance) < 1.2 W/Kg. Therefore, no further analysis beyond tables included in this section was required to determine that possible Simultaneous transmission scenarios would not exceed the SAR limit.



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9.3.2 Simultaneous Transmission SAR Summation Scenario

Head:

Test position		SARmax (W/kg)				Summed SAR		
		Main	WiFi 2.4G Ant6	WiFi 5G Ant6	BT			
		1	2	3	4	1+2	1+3	1+4
GSM850	Left cheek	0.627	0.473	0.378	0.102	1.100	1.005	0.729
	Left tilted	0.578	0.484	0.497	0.117	1.062	1.075	0.695
	Right cheek	0.682	0.145	0.280	0.012	0.827	0.962	0.694
	Right tilted	0.576	0.237	0.349	0.017	0.813	0.925	0.593
GSM1900	Left cheek	0.566	0.473	0.378	0.102	1.039	0.944	0.668
	Left tilted	0.691	0.484	0.497	0.117	1.175	1.188	0.808
	Right cheek	0.734	0.145	0.280	0.012	0.879	1.014	0.746
	Right tilted	1.034	0.237	0.349	0.017	1.271	1.383	1.051
WCDMA II	Left cheek	0.595	0.473	0.378	0.102	1.068	0.973	0.697
	Left tilted	0.719	0.484	0.497	0.117	1.203	1.216	0.836
	Right cheek	0.796	0.145	0.280	0.012	0.941	1.076	0.808
	Right tilted	1.091	0.237	0.349	0.017	1.328	1.440	1.108
WCDMA IV	Left cheek	0.601	0.473	0.378	0.102	1.074	0.979	0.703
	Left tilted	0.677	0.484	0.497	0.117	1.161	1.174	0.794
	Right cheek	0.919	0.145	0.280	0.012	1.064	1.199	0.931
	Right tilted	1.043	0.237	0.349	0.017	1.280	1.392	1.060
WCDMA V	Left cheek	0.966	0.473	0.378	0.102	1.439	1.344	1.068
	Left tilted	0.680	0.484	0.497	0.117	1.164	1.177	0.797
	Right cheek	0.653	0.145	0.280	0.012	0.798	0.933	0.665
	Right tilted	0.584	0.237	0.349	0.017	0.821	0.933	0.601
LTE B2	Left cheek	0.511	0.473	0.378	0.102	0.984	0.889	0.613
	Left tilted	0.609	0.484	0.497	0.117	1.093	1.106	0.726
	Right cheek	0.738	0.145	0.280	0.012	0.883	1.018	0.750
	Right tilted	0.996	0.237	0.349	0.017	1.233	1.345	1.013
LTE B7	Left cheek	0.662	0.473	0.378	0.102	1.135	1.040	0.764
	Left tilted	0.754	0.484	0.497	0.117	1.238	1.251	0.871
	Right cheek	0.728	0.145	0.280	0.012	0.873	1.008	0.740
	Right tilted	0.956	0.237	0.349	0.017	1.193	1.305	0.973
LTE B12	Left cheek	0.546	0.473	0.378	0.102	1.019	0.924	0.648
	Left tilted	0.490	0.484	0.497	0.117	0.974	0.987	0.607
	Right cheek	0.595	0.145	0.280	0.012	0.740	0.875	0.607
	Right tilted	0.552	0.237	0.349	0.017	0.789	0.901	0.569
LTE B13	Left cheek	0.762	0.473	0.378	0.102	1.235	1.140	0.864
	Left tilted	0.674	0.484	0.497	0.117	1.158	1.171	0.791
	Right cheek	0.818	0.145	0.280	0.012	0.963	1.098	0.830
	Right tilted	0.727	0.237	0.349	0.017	0.964	1.076	0.744
LTE B26	Left cheek	0.743	0.473	0.378	0.102	1.216	1.121	0.845
	Left tilted	0.648	0.484	0.497	0.117	1.132	1.145	0.765
	Right cheek	0.737	0.145	0.280	0.012	0.882	1.017	0.749
	Right tilted	0.664	0.237	0.349	0.017	0.901	1.013	0.681
LTE B41	Left cheek	0.635	0.473	0.378	0.102	1.108	1.013	0.737
	Left tilted	0.730	0.484	0.497	0.117	1.214	1.227	0.847
	Right cheek	0.684	0.145	0.280	0.012	0.829	0.964	0.696
	Right tilted	1.056	0.237	0.349	0.017	1.293	1.405	1.073
LTE B66	Left cheek	0.538	0.473	0.378	0.102	1.011	0.916	0.640
	Left tilted	0.677	0.484	0.497	0.117	1.161	1.174	0.794
	Right cheek	0.726	0.145	0.280	0.012	0.871	1.006	0.738
	Right tilted	0.892	0.237	0.349	0.017	1.129	1.241	0.909
NR n5	Left cheek	0.981	0.473	0.378	0.102	1.454	1.359	1.083
	Left tilted	0.838	0.484	0.497	0.117	1.322	1.335	0.955
	Right cheek	1.041	0.145	0.280	0.012	1.186	1.321	1.053



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	Right tilted	0.862	0.237	0.349	0.017	1.099	1.211	0.879
NR n7	Left cheek	0.751	0.473	0.378	0.102	1.224	1.129	0.853
	Left tilted	0.890	0.484	0.497	0.117	1.374	1.387	1.007
	Right cheek	0.847	0.145	0.280	0.012	0.992	1.127	0.859
	Right tilted	1.072	0.237	0.349	0.017	1.309	1.421	1.089
NR n41	Left cheek	0.778	0.473	0.378	0.102	1.251	1.156	0.880
	Left tilted	0.887	0.484	0.497	0.117	1.371	1.384	1.004
	Right cheek	0.862	0.145	0.280	0.012	1.007	1.142	0.874
	Right tilted	1.083	0.237	0.349	0.017	1.320	1.432	1.100
NR n66	Left cheek	0.649	0.473	0.378	0.102	1.122	1.027	0.751
	Left tilted	0.704	0.484	0.497	0.117	1.188	1.201	0.821
	Right cheek	0.939	0.145	0.280	0.012	1.084	1.219	0.951
	Right tilted	1.030	0.237	0.349	0.017	1.267	1.379	1.047
NR n77	Left cheek	1.039	0.473	0.378	0.102	1.512	1.417	1.141
	Left tilted	0.897	0.484	0.497	0.117	1.381	1.394	1.014
	Right cheek	0.553	0.145	0.280	0.012	0.698	0.833	0.565
	Right tilted	0.514	0.237	0.349	0.017	0.751	0.863	0.531

ULCA		SARmax (W/kg)					Summed SAR		
		LTE Band	LTE Band	WiFi 2.4G Ant6	WiFi 5G Ant6	BT			
		1	2	3	4	5	1+2+3	1+2+4	1+2+5
CA_4A-7A	Left cheek	0.339	0.139	0.473	0.378	0.102	0.951	0.856	0.580
	Left tilted	0.099	0.119	0.484	0.497	0.117	0.702	0.715	0.335
	Right cheek	0.489	0.170	0.145	0.280	0.012	0.804	0.939	0.671
	Right tilted	0.111	0.055	0.237	0.349	0.017	0.403	0.515	0.183
CA_2A-4A	Left cheek	0.316	0.339	0.473	0.378	0.102	1.128	1.033	0.757
	Left tilted	0.257	0.099	0.484	0.497	0.117	0.840	0.853	0.473
	Right cheek	0.251	0.489	0.145	0.280	0.012	0.885	1.020	0.752
	Right tilted	0.238	0.111	0.237	0.349	0.017	0.586	0.698	0.366

ENDC		SARmax (W/kg)					Summed SAR		
		LTE Band	NR Band	WiFi 2.4G Ant6	WiFi 5G Ant6	BT			
		1	2	3	4	5	1+2+3	1+2+4	1+2+5
2A_n78A	Left cheek	0.291	0.450	0.473	0.378	0.102	1.214	1.119	0.843
	Left tilted	0.145	0.450	0.484	0.497	0.117	1.079	1.092	0.712
	Right cheek	0.465	0.450	0.145	0.280	0.012	1.060	1.195	0.927
	Right tilted	0.158	0.450	0.237	0.349	0.017	0.845	0.957	0.625
2A_n66A	Left cheek	0.291	0.184	0.473	0.378	0.102	0.948	0.853	0.577
	Left tilted	0.145	0.160	0.484	0.497	0.117	0.789	0.802	0.422
	Right cheek	0.465	0.241	0.145	0.280	0.012	0.851	0.986	0.718
	Right tilted	0.158	0.184	0.237	0.349	0.017	0.579	0.691	0.359
2A_n38A	Left cheek	0.291	0.204	0.473	0.378	0.102	0.968	0.873	0.597
	Left tilted	0.145	0.171	0.484	0.497	0.117	0.800	0.813	0.433
	Right cheek	0.465	0.236	0.145	0.280	0.012	0.846	0.981	0.713
	Right tilted	0.158	0.082	0.237	0.349	0.017	0.477	0.589	0.257
4A_n7A	Left cheek	0.339	0.169	0.473	0.378	0.102	0.981	0.886	0.610
	Left tilted	0.099	0.134	0.484	0.497	0.117	0.717	0.730	0.350



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	Right cheek	0.489	0.190	0.145	0.280	0.012	0.824	0.959	0.691
	Right tilted	0.111	0.058	0.237	0.349	0.017	0.406	0.518	0.186
4A_n38A	Left cheek	0.339	0.204	0.473	0.378	0.102	1.016	0.921	0.645
	Left tilted	0.099	0.171	0.484	0.497	0.117	0.754	0.767	0.387
	Right cheek	0.489	0.236	0.145	0.280	0.012	0.870	1.005	0.737
	Right tilted	0.111	0.082	0.237	0.349	0.017	0.430	0.542	0.210
4A_n41A	Left cheek	0.339	0.204	0.473	0.378	0.102	1.016	0.921	0.645
	Left tilted	0.099	0.171	0.484	0.497	0.117	0.754	0.767	0.387
	Right cheek	0.489	0.236	0.145	0.280	0.012	0.870	1.005	0.737
	Right tilted	0.111	0.082	0.237	0.349	0.017	0.430	0.542	0.210
4A_n78A	Left cheek	0.339	0.450	0.473	0.378	0.102	1.262	1.167	0.891
	Left tilted	0.099	0.450	0.484	0.497	0.117	1.033	1.046	0.666
	Right cheek	0.489	0.450	0.145	0.280	0.012	1.084	1.219	0.951
	Right tilted	0.111	0.450	0.237	0.349	0.017	0.798	0.910	0.578
5A_n78A	Left cheek	0.195	0.450	0.473	0.378	0.102	1.118	1.023	0.747
	Left tilted	0.115	0.450	0.484	0.497	0.117	1.049	1.062	0.682
	Right cheek	0.215	0.450	0.145	0.280	0.012	0.810	0.945	0.677
	Right tilted	0.138	0.450	0.237	0.349	0.017	0.825	0.937	0.605
5A_n7A	Left cheek	0.195	0.479	0.473	0.378	0.102	1.147	1.052	0.776
	Left tilted	0.115	0.479	0.484	0.497	0.117	1.078	1.091	0.711
	Right cheek	0.215	0.479	0.145	0.280	0.012	0.839	0.974	0.706
	Right tilted	0.138	0.479	0.237	0.349	0.017	0.854	0.966	0.634
7A_n78A	Left cheek	0.189	0.450	0.473	0.378	0.102	1.112	1.017	0.741
	Left tilted	0.045	0.450	0.484	0.497	0.117	0.979	0.992	0.612
	Right cheek	0.282	0.450	0.145	0.280	0.012	0.877	1.012	0.744
	Right tilted	0.070	0.450	0.237	0.349	0.017	0.757	0.869	0.537
7A_n5A	Left cheek	0.479	0.254	0.473	0.378	0.102	1.206	1.111	0.835
	Left tilted	0.479	0.143	0.484	0.497	0.117	1.106	1.119	0.739
	Right cheek	0.479	0.271	0.145	0.280	0.012	0.895	1.030	0.762
	Right tilted	0.479	0.153	0.237	0.349	0.017	0.869	0.981	0.649
7A_n66A	Left cheek	0.189	0.184	0.473	0.378	0.102	0.846	0.751	0.475
	Left tilted	0.045	0.160	0.484	0.497	0.117	0.689	0.702	0.322
	Right cheek	0.282	0.241	0.145	0.280	0.012	0.668	0.803	0.535
	Right tilted	0.070	0.184	0.237	0.349	0.017	0.491	0.603	0.271
26A_n78A	Left cheek	0.195	0.450	0.473	0.378	0.102	1.118	1.023	0.747
	Left tilted	0.115	0.450	0.484	0.497	0.117	1.049	1.062	0.682
	Right cheek	0.215	0.450	0.145	0.280	0.012	0.810	0.945	0.677
	Right tilted	0.138	0.450	0.237	0.349	0.017	0.825	0.937	0.605
38A_n78A	Left cheek	0.221	0.450	0.473	0.378	0.102	1.144	1.049	0.773
	Left tilted	0.053	0.450	0.484	0.497	0.117	0.987	1.000	0.620
	Right cheek	0.430	0.450	0.145	0.280	0.012	1.025	1.160	0.892
	Right tilted	0.084	0.450	0.237	0.349	0.017	0.771	0.883	0.551
41A_n78A	Left cheek	0.221	0.450	0.473	0.378	0.102	1.144	1.049	0.773
	Left tilted	0.053	0.450	0.484	0.497	0.117	0.987	1.000	0.620
	Right cheek	0.430	0.450	0.145	0.280	0.012	1.025	1.160	0.892
	Right tilted	0.084	0.450	0.237	0.349	0.017	0.771	0.883	0.551
41A_n41A	Left cheek	0.221	0.204	0.473	0.378	0.102	0.898	0.803	0.527
	Left tilted	0.053	0.171	0.484	0.497	0.117	0.708	0.721	0.341
	Right cheek	0.430	0.236	0.145	0.280	0.012	0.811	0.946	0.678
	Right tilted	0.084	0.082	0.237	0.349	0.017	0.403	0.515	0.183



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66A_n78A	Left cheek	0.339	0.450	0.473	0.378	0.102	1.262	1.167	0.891
	Left tilted	0.099	0.450	0.484	0.497	0.117	1.033	1.046	0.666
	Right cheek	0.489	0.450	0.145	0.280	0.012	1.084	1.219	0.951
	Right tilted	0.111	0.450	0.237	0.349	0.017	0.798	0.910	0.578
66A_n38A	Left cheek	0.339	0.204	0.473	0.378	0.102	1.016	0.921	0.645
	Left tilted	0.099	0.171	0.484	0.497	0.117	0.754	0.767	0.387
	Right cheek	0.489	0.236	0.145	0.280	0.012	0.870	1.005	0.737
	Right tilted	0.111	0.082	0.237	0.349	0.017	0.430	0.542	0.210
66A_n41A	Left cheek	0.339	0.204	0.473	0.378	0.102	1.016	0.921	0.645
	Left tilted	0.099	0.171	0.484	0.497	0.117	0.754	0.767	0.387
	Right cheek	0.489	0.236	0.145	0.280	0.012	0.870	1.005	0.737
	Right tilted	0.111	0.082	0.237	0.349	0.017	0.430	0.542	0.210
66A_n7A	Left cheek	0.339	0.169	0.473	0.378	0.102	0.981	0.886	0.610
	Left tilted	0.099	0.134	0.484	0.497	0.117	0.717	0.730	0.350
	Right cheek	0.489	0.190	0.145	0.280	0.012	0.824	0.959	0.691
	Right tilted	0.111	0.058	0.237	0.349	0.017	0.406	0.518	0.186
66A_n66A	Left cheek	0.339	0.184	0.473	0.378	0.102	0.996	0.901	0.625
	Left tilted	0.099	0.160	0.484	0.497	0.117	0.743	0.756	0.376
	Right cheek	0.489	0.241	0.145	0.280	0.012	0.875	1.010	0.742
	Right tilted	0.111	0.184	0.237	0.349	0.017	0.532	0.644	0.312



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

Test position		SARmax (W/kg)				Summed SAR		
		Main	WiFi 2.4G Ant6	WiFi 5G Ant6	BT			
		1	2	3	4	1+2	1+3	1+4
GSM850	Front side	0.205	0.208	0.151	0.032	0.413	0.356	0.237
	Back side	0.309	0.424	0.345	0.069	0.733	0.654	0.378
GSM1900	Front side	0.442	0.208	0.151	0.032	0.650	0.593	0.474
	Back side	0.377	0.424	0.345	0.069	0.801	0.722	0.446
WCDMA II	Front side	1.088	0.208	0.151	0.032	1.296	1.239	1.120
	Back side	0.531	0.424	0.345	0.069	0.955	0.876	0.600
WCDMA IV	Front side	0.552	0.208	0.151	0.032	0.760	0.703	0.584
	Back side	0.894	0.424	0.345	0.069	1.318	1.239	0.963
WCDMA V	Front side	0.224	0.208	0.151	0.032	0.432	0.375	0.256
	Back side	0.363	0.424	0.345	0.069	0.787	0.708	0.432
LTE B2	Front side	0.861	0.208	0.151	0.032	1.069	1.012	0.893
	Back side	0.523	0.424	0.345	0.069	0.947	0.868	0.592
LTE B7	Front side	1.042	0.208	0.151	0.032	1.250	1.193	1.074
	Back side	0.473	0.424	0.345	0.069	0.897	0.818	0.542
LTE B12	Front side	0.187	0.208	0.151	0.032	0.395	0.338	0.219
	Back side	0.212	0.424	0.345	0.069	0.636	0.557	0.281
LTE B13	Front side	0.192	0.208	0.151	0.032	0.400	0.343	0.224
	Back side	0.333	0.424	0.345	0.069	0.757	0.678	0.402
LTE B26	Front side	0.224	0.208	0.151	0.032	0.432	0.375	0.256
	Back side	0.399	0.424	0.345	0.069	0.823	0.744	0.468
LTE B41	Front side	0.550	0.208	0.151	0.032	0.758	0.701	0.582
	Back side	0.427	0.424	0.345	0.069	0.851	0.772	0.496
LTE B66	Front side	0.709	0.208	0.151	0.032	0.917	0.860	0.741
	Back side	0.877	0.424	0.345	0.069	1.301	1.222	0.946
NR n5	Front side	0.332	0.208	0.151	0.032	0.540	0.483	0.364
	Back side	0.539	0.424	0.345	0.069	0.963	0.884	0.608
NR n7	Front side	1.078	0.208	0.151	0.032	1.286	1.229	1.110
	Back side	0.674	0.424	0.345	0.069	1.098	1.019	0.743
NR n41	Front side	1.008	0.208	0.151	0.032	1.216	1.159	1.040
	Back side	0.531	0.424	0.345	0.069	0.955	0.876	0.600
NR n66	Front side	0.701	0.208	0.151	0.032	0.909	0.852	0.733
	Back side	0.894	0.424	0.345	0.069	1.318	1.239	0.963
NR n77	Front side	0.477	0.208	0.151	0.032	0.685	0.628	0.509
	Back side	0.797	0.424	0.345	0.069	1.221	1.142	0.866

ULCA		SARmax (W/kg)					Summed SAR		
		LTE Band	LTE Band	WiFi 2.4G Ant6	WiFi 5G Ant6	BT			
		1	2	3	4	5	1+2+3	1+2+4	1+2+5
CA_4A-7A	Front side	0.196	1.042	0.208	0.151	0.032	1.446	1.389	1.270
	Back side	0.460	0.417	0.424	0.345	0.069	1.301	1.222	0.946
CA_2A-4A	Front side	0.861	0.196	0.208	0.151	0.032	1.265	1.208	1.089
	Back side	0.505	0.460	0.424	0.345	0.069	1.389	1.310	1.034



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ENDC		SARmax (W/kg)					Summed SAR		
		LTE Band	NR Band	WiFi 2.4G Ant6	WiFi 5G Ant6	BT			
		1	2	3	4	5	1+2+3	1+2+4	1+2+5
2A_n78A	Front side	0.126	0.261	0.208	0.151	0.032	0.595	0.538	0.419
	Back side	0.368	0.362	0.424	0.345	0.069	1.154	1.075	0.799
2A_n66A	Front side	0.126	0.701	0.208	0.151	0.032	1.035	0.978	0.859
	Back side	0.368	0.410	0.424	0.345	0.069	1.202	1.123	0.847
2A_n38A	Front side	0.126	1.008	0.208	0.151	0.032	1.342	1.285	1.166
	Back side	0.368	0.372	0.424	0.345	0.069	1.164	1.085	0.809
4A_n7A	Front side	0.196	1.078	0.208	0.151	0.032	1.482	1.425	1.306
	Back side	0.460	0.674	0.424	0.345	0.069	1.558	1.479	1.203
4A_n38A	Front side	0.196	1.008	0.208	0.151	0.032	1.412	1.355	1.236
	Back side	0.460	0.372	0.424	0.345	0.069	1.256	1.177	0.901
4A_n41A	Front side	0.196	1.008	0.208	0.151	0.032	1.412	1.355	1.236
	Back side	0.460	0.372	0.424	0.345	0.069	1.256	1.177	0.901
4A_n78A	Front side	0.196	0.261	0.208	0.151	0.032	0.665	0.608	0.489
	Back side	0.460	0.362	0.424	0.345	0.069	1.246	1.167	0.891
5A_n78A	Front side	0.224	0.261	0.208	0.151	0.032	0.693	0.636	0.517
	Back side	0.356	0.362	0.424	0.345	0.069	1.142	1.063	0.787
5A_n7A	Front side	0.224	0.882	0.208	0.151	0.032	1.314	1.257	1.138
	Back side	0.356	0.240	0.424	0.345	0.069	1.020	0.941	0.665
7A_n78A	Front side	0.404	0.261	0.208	0.151	0.032	0.873	0.816	0.697
	Back side	0.473	0.362	0.424	0.345	0.069	1.259	1.180	0.904
7A_n5A	Front side	0.167	0.332	0.208	0.151	0.032	0.707	0.650	0.531
	Back side	0.395	0.511	0.424	0.345	0.069	1.330	1.251	0.975
7A_n66A	Front side	0.404	0.701	0.208	0.151	0.032	1.313	1.256	1.137
	Back side	0.473	0.410	0.424	0.345	0.069	1.307	1.228	0.952
26A_n78A	Front side	0.224	0.261	0.208	0.151	0.032	0.693	0.636	0.517
	Back side	0.356	0.362	0.424	0.345	0.069	1.142	1.063	0.787
38A_n78A	Front side	0.345	0.261	0.208	0.151	0.032	0.814	0.757	0.638
	Back side	0.427	0.362	0.424	0.345	0.069	1.213	1.134	0.858
41A_n78A	Front side	0.345	0.261	0.208	0.151	0.032	0.814	0.757	0.638
	Back side	0.427	0.362	0.424	0.345	0.069	1.213	1.134	0.858
41A_n41A	Front side	0.345	1.008	0.208	0.151	0.032	1.561	1.504	1.385
	Back side	0.427	0.372	0.424	0.345	0.069	1.223	1.144	0.868
66A_n78A	Front side	0.196	0.261	0.208	0.151	0.032	0.665	0.608	0.489
	Back side	0.460	0.362	0.424	0.345	0.069	1.246	1.167	0.891
66A_n38A	Front side	0.196	1.008	0.208	0.151	0.032	1.412	1.355	1.236
	Back side	0.460	0.372	0.424	0.345	0.069	1.256	1.177	0.901
66A_n41A	Front side	0.196	1.008	0.208	0.151	0.032	1.412	1.355	1.236
	Back side	0.460	0.372	0.424	0.345	0.069	1.256	1.177	0.901
66A_n7A	Front side	0.196	1.078	0.208	0.151	0.032	1.482	1.425	1.306
	Back side	0.460	0.674	0.424	0.345	0.069	1.558	1.479	1.203
66A_n66A	Front side	0.196	0.701	0.208	0.151	0.032	1.105	1.048	0.929
	Back side	0.460	0.410	0.424	0.345	0.069	1.294	1.215	0.939



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Hotspot:

Test position		SARmax (W/kg)				Summed SAR		
		Main	WiFi 2.4G Ant6	WiFi 5G Ant6	BT			
		1	2	3	4	1+2	1+3	1+4
GSM850	Front side	0.205	0.208	0.116	0.032	0.413	0.321	0.237
	Back side	0.309	0.424	0.317	0.069	0.733	0.626	0.378
	Left side	0.127	0.000	0.000	0.000	0.127	0.127	0.127
	Right side	0.216	0.168	0.153	0.018	0.384	0.369	0.234
	Top side	0.151	0.191	0.384	0.024	0.342	0.535	0.175
	Bottom side	0.186	0.000	0.000	0.000	0.186	0.186	0.186
GSM1900	Front side	0.442	0.208	0.116	0.032	0.650	0.558	0.474
	Back side	0.377	0.424	0.317	0.069	0.801	0.694	0.446
	Left side	0.209	0.000	0.000	0.000	0.209	0.209	0.209
	Right side	0.076	0.168	0.153	0.018	0.244	0.229	0.094
	Top side	0.475	0.191	0.384	0.024	0.666	0.859	0.499
	Bottom side	0.592	0.000	0.000	0.000	0.592	0.592	0.592
WCDMA II	Front side	1.088	0.208	0.116	0.032	1.296	1.204	1.120
	Back side	0.621	0.424	0.317	0.069	1.045	0.938	0.690
	Left side	0.521	0.000	0.000	0.000	0.521	0.521	0.521
	Right side	0.127	0.168	0.153	0.018	0.295	0.280	0.145
	Top side	0.960	0.191	0.384	0.024	1.151	1.344	0.984
	Bottom side	0.874	0.000	0.000	0.000	0.874	0.874	0.874
WCDMA IV	Front side	0.959	0.208	0.116	0.032	1.167	1.075	0.991
	Back side	0.894	0.424	0.317	0.069	1.318	1.211	0.963
	Left side	0.246	0.000	0.000	0.000	0.246	0.246	0.246
	Right side	0.135	0.168	0.153	0.018	0.303	0.288	0.153
	Top side	1.080	0.191	0.384	0.024	1.271	1.464	1.104
	Bottom side	0.750	0.000	0.000	0.000	0.750	0.750	0.750
WCDMA V	Front side	0.224	0.208	0.116	0.032	0.432	0.340	0.256
	Back side	0.363	0.424	0.317	0.069	0.787	0.680	0.432
	Left side	0.112	0.000	0.000	0.000	0.112	0.112	0.112
	Right side	0.188	0.168	0.153	0.018	0.356	0.341	0.206
	Top side	0.224	0.191	0.384	0.024	0.415	0.608	0.248
	Bottom side	0.282	0.000	0.000	0.000	0.282	0.282	0.282
LTE B2	Front side	0.861	0.208	0.116	0.032	1.069	0.977	0.893
	Back side	0.657	0.424	0.317	0.069	1.081	0.974	0.726
	Left side	0.513	0.000	0.000	0.000	0.513	0.513	0.513
	Right side	0.206	0.168	0.153	0.018	0.374	0.359	0.224
	Top side	0.775	0.191	0.384	0.024	0.966	1.159	0.799
	Bottom side	0.787	0.000	0.000	0.000	0.787	0.787	0.787
LTE B7	Front side	1.042	0.208	0.116	0.032	1.250	1.158	1.074
	Back side	0.539	0.424	0.317	0.069	0.963	0.856	0.608
	Left side	0.367	0.000	0.000	0.000	0.367	0.367	0.367
	Right side	0.255	0.168	0.153	0.018	0.423	0.408	0.273



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	Top side	0.970	0.191	0.384	0.024	1.161	1.354	0.994
	Bottom side	0.955	0.000	0.000	0.000	0.955	0.955	0.955
LTE B12	Front side	0.187	0.208	0.116	0.032	0.395	0.303	0.219
	Back side	0.212	0.424	0.317	0.069	0.636	0.529	0.281
	Left side	0.183	0.000	0.000	0.000	0.183	0.183	0.183
	Right side	0.255	0.168	0.153	0.018	0.423	0.408	0.273
	Top side	0.174	0.191	0.384	0.024	0.365	0.558	0.198
	Bottom side	0.177	0.000	0.000	0.000	0.177	0.177	0.177
LTE B13	Front side	0.192	0.208	0.116	0.032	0.400	0.308	0.224
	Back side	0.333	0.424	0.317	0.069	0.757	0.650	0.402
	Left side	0.151	0.000	0.000	0.000	0.151	0.151	0.151
	Right side	0.189	0.168	0.153	0.018	0.357	0.342	0.207
	Top side	0.261	0.191	0.384	0.024	0.452	0.645	0.285
	Bottom side	0.193	0.000	0.000	0.000	0.193	0.193	0.193
LTE B26	Front side	0.224	0.208	0.116	0.032	0.432	0.340	0.256
	Back side	0.399	0.424	0.317	0.069	0.823	0.716	0.468
	Left side	0.127	0.000	0.000	0.000	0.127	0.127	0.127
	Right side	0.211	0.168	0.153	0.018	0.379	0.364	0.229
	Top side	0.324	0.191	0.384	0.024	0.515	0.708	0.348
	Bottom side	0.202	0.000	0.000	0.000	0.202	0.202	0.202
LTE B41	Front side	0.550	0.208	0.116	0.032	0.758	0.666	0.582
	Back side	0.481	0.424	0.317	0.069	0.905	0.798	0.550
	Left side	0.399	0.000	0.000	0.000	0.399	0.399	0.399
	Right side	0.156	0.168	0.153	0.018	0.324	0.309	0.174
	Top side	0.469	0.191	0.384	0.024	0.660	0.853	0.493
	Bottom side	0.591	0.000	0.000	0.000	0.591	0.591	0.591
LTE B66	Front side	0.954	0.208	0.116	0.032	1.162	1.070	0.986
	Back side	0.885	0.424	0.317	0.069	1.309	1.202	0.954
	Left side	0.497	0.000	0.000	0.000	0.497	0.497	0.497
	Right side	0.170	0.168	0.153	0.018	0.338	0.323	0.188
	Top side	1.084	0.191	0.384	0.024	1.275	1.468	1.108
	Bottom side	0.754	0.000	0.000	0.000	0.754	0.754	0.754
NR n5	Front side	0.332	0.208	0.116	0.032	0.540	0.448	0.364
	Back side	0.539	0.424	0.317	0.069	0.963	0.856	0.608
	Left side	0.163	0.000	0.000	0.000	0.163	0.163	0.163
	Right side	0.237	0.168	0.153	0.018	0.405	0.390	0.255
	Top side	0.280	0.191	0.384	0.024	0.471	0.664	0.304
	Bottom side	0.355	0.000	0.000	0.000	0.355	0.355	0.355
NR n7	Front side	1.078	0.208	0.116	0.032	1.286	1.194	1.110
	Back side	0.674	0.424	0.317	0.069	1.098	0.991	0.743
	Left side	0.314	0.000	0.000	0.000	0.314	0.314	0.314
	Right side	0.255	0.168	0.153	0.018	0.423	0.408	0.273
	Top side	0.842	0.191	0.384	0.024	1.033	1.226	0.866
	Bottom side	0.789	0.000	0.000	0.000	0.789	0.789	0.789
NR n41	Front side	1.008	0.208	0.116	0.032	1.216	1.124	1.040
	Back side	0.653	0.424	0.317	0.069	1.077	0.970	0.722
	Left side	0.428	0.000	0.000	0.000	0.428	0.428	0.428
	Right side	0.260	0.168	0.153	0.018	0.428	0.413	0.278
	Top side	0.799	0.191	0.384	0.024	0.990	1.183	0.823
	Bottom side	0.704	0.000	0.000	0.000	0.704	0.704	0.704



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NR n66	Front side	0.901	0.208	0.116	0.032	1.109	1.017	0.933
	Back side	0.894	0.424	0.317	0.069	1.318	1.211	0.963
	Left side	0.304	0.000	0.000	0.000	0.304	0.304	0.304
	Right side	0.152	0.168	0.153	0.018	0.320	0.305	0.170
	Top side	1.088	0.191	0.384	0.024	1.279	1.472	1.112
	Bottom side	0.772	0.000	0.000	0.000	0.772	0.772	0.772
NR n77	Front side	0.477	0.208	0.116	0.032	0.685	0.593	0.509
	Back side	0.797	0.424	0.317	0.069	1.221	1.114	0.866
	Left side	0.450	0.000	0.000	0.000	0.450	0.450	0.450
	Right side	0.466	0.168	0.153	0.018	0.634	0.619	0.484
	Top side	0.618	0.191	0.384	0.024	0.809	1.002	0.642
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ULCA		SARmax (W/kg)					Summed SAR		
		LTE Band	LTE Band	WiFi 2.4G Ant6	WiFi 5G Ant6	BT			
		1	2	3	4	5	1+2+3	1+2+4	1+2+5
CA_4A-7A	Front side	0.196	1.042	0.208	0.116	0.032	1.446	1.354	1.270
	Back side	0.460	0.539	0.424	0.317	0.069	1.423	1.316	1.068
	Left side	0.497	0.167	0.000	0.000	0.000	0.664	0.664	0.664
	Right side	0.000	0.255	0.168	0.153	0.018	0.423	0.408	0.273
	Top side	0.000	0.000	0.191	0.384	0.024	0.191	0.384	0.024
	Bottom side	0.000	0.955	0.000	0.000	0.000	0.955	0.955	0.955
CA_2A-4A	Front side	0.861	0.196	0.208	0.116	0.032	1.265	1.173	1.089
	Back side	0.505	0.460	0.424	0.317	0.069	1.389	1.282	1.034
	Left side	0.513	0.497	0.000	0.000	0.000	1.010	1.010	1.010
	Right side	0.206	0.000	0.168	0.153	0.018	0.374	0.359	0.224
	Top side	0.000	0.000	0.191	0.384	0.024	0.191	0.384	0.024
	Bottom side	0.704	0.000	0.000	0.000	0.000	0.704	0.704	0.704

ENDC		SARmax (W/kg)					Summed SAR		
		LTE Band	NR Band	WiFi 2.4G Ant6	WiFi 5G Ant6	BT			
		1	2	3	4	5	1+2+3	1+2+4	1+2+5
2A_n78A	Front side	0.126	0.274	0.208	0.116	0.032	0.608	0.516	0.432
	Back side	0.368	0.477	0.424	0.317	0.069	1.269	1.162	0.914
	Left side	0.333	0.000	0.000	0.000	0.000	0.333	0.333	0.333
	Right side	0.000	0.000	0.168	0.153	0.018	0.168	0.153	0.018
	Top side	0.000	0.618	0.191	0.384	0.024	0.809	1.002	0.642
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2A_n66A	Front side	0.126	0.701	0.208	0.116	0.032	1.035	0.943	0.859
	Back side	0.368	0.410	0.424	0.317	0.069	1.202	1.095	0.847
	Left side	0.333	0.304	0.000	0.000	0.000	0.637	0.637	0.637
	Right side	0.000	0.152	0.168	0.153	0.018	0.320	0.305	0.170
	Top side	0.000	0.000	0.191	0.384	0.024	0.191	0.384	0.024
	Bottom side	0.000	0.772	0.000	0.000	0.000	0.772	0.772	0.772
2A_n38A	Front side	0.126	1.008	0.208	0.116	0.032	1.342	1.250	1.166
	Back side	0.368	0.653	0.424	0.317	0.069	1.445	1.338	1.090
	Left side	0.333	0.247	0.000	0.000	0.000	0.580	0.580	0.580
	Right side	0.000	0.260	0.168	0.153	0.018	0.428	0.413	0.278
	Top side	0.000	0.000	0.191	0.384	0.024	0.191	0.384	0.024
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000



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	Bottom side	0.000	0.704	0.000	0.000	0.000	0.704	0.704	0.704
4A_n7A	Front side	0.196	1.078	0.208	0.116	0.032	1.482	1.390	1.306
	Back side	0.460	0.674	0.424	0.317	0.069	1.558	1.451	1.203
	Left side	0.497	0.189	0.000	0.000	0.000	0.686	0.686	0.686
	Right side	0.000	0.255	0.168	0.153	0.018	0.423	0.408	0.273
	Top side	0.000	0.000	0.191	0.384	0.024	0.191	0.384	0.024
	Bottom side	0.000	0.789	0.000	0.000	0.000	0.789	0.789	0.789
4A_n38A	Front side	0.196	1.008	0.208	0.116	0.032	1.412	1.320	1.236
	Back side	0.460	0.653	0.424	0.317	0.069	1.537	1.430	1.182
	Left side	0.497	0.247	0.000	0.000	0.000	0.744	0.744	0.744
	Right side	0.000	0.260	0.168	0.153	0.018	0.428	0.413	0.278
	Top side	0.000	0.000	0.191	0.384	0.024	0.191	0.384	0.024
	Bottom side	0.000	0.704	0.000	0.000	0.000	0.704	0.704	0.704
4A_n41A	Front side	0.196	1.008	0.208	0.116	0.032	1.412	1.320	1.236
	Back side	0.460	0.653	0.424	0.317	0.069	1.537	1.430	1.182
	Left side	0.497	0.247	0.000	0.000	0.000	0.744	0.744	0.744
	Right side	0.000	0.260	0.168	0.153	0.018	0.428	0.413	0.278
	Top side	0.000	0.000	0.191	0.384	0.024	0.191	0.384	0.024
	Bottom side	0.000	0.704	0.000	0.000	0.000	0.704	0.704	0.704
4A_n78A	Front side	0.196	0.274	0.208	0.116	0.032	0.678	0.586	0.502
	Back side	0.460	0.477	0.424	0.317	0.069	1.361	1.254	1.006
	Left side	0.497	0.000	0.000	0.000	0.000	0.497	0.497	0.497
	Right side	0.000	0.000	0.168	0.153	0.018	0.168	0.153	0.018
	Top side	0.000	0.618	0.191	0.384	0.024	0.809	1.002	0.642
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5A_n78A	Front side	0.224	0.274	0.208	0.116	0.032	0.706	0.614	0.530
	Back side	0.356	0.477	0.424	0.317	0.069	1.257	1.150	0.902
	Left side	0.127	0.000	0.000	0.000	0.000	0.127	0.127	0.127
	Right side	0.211	0.000	0.168	0.153	0.018	0.379	0.364	0.229
	Top side	0.000	0.618	0.191	0.384	0.024	0.809	1.002	0.642
	Bottom side	0.202	0.000	0.000	0.000	0.000	0.202	0.202	0.202
5A_n7A	Front side	0.224	0.882	0.208	0.116	0.032	1.314	1.222	1.138
	Back side	0.356	0.353	0.424	0.317	0.069	1.133	1.026	0.778
	Left side	0.127	0.314	0.000	0.000	0.000	0.441	0.441	0.441
	Right side	0.211	0.000	0.168	0.153	0.018	0.379	0.364	0.229
	Top side	0.000	0.842	0.191	0.384	0.024	1.033	1.226	0.866
	Bottom side	0.202	0.000	0.000	0.000	0.000	0.202	0.202	0.202
7A_n78A	Front side	0.404	0.274	0.208	0.116	0.032	0.886	0.794	0.710
	Back side	0.473	0.477	0.424	0.317	0.069	1.374	1.267	1.019
	Left side	0.337	0.000	0.000	0.000	0.000	0.337	0.337	0.337
	Right side	0.000	0.000	0.168	0.153	0.018	0.168	0.153	0.018
	Top side	0.000	0.618	0.191	0.384	0.024	0.809	1.002	0.642
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7A_n5A	Front side	0.522	0.332	0.208	0.116	0.032	1.062	0.970	0.886
	Back side	0.483	0.511	0.424	0.317	0.069	1.418	1.311	1.063
	Left side	0.367	0.163	0.000	0.000	0.000	0.530	0.530	0.530
	Right side	0.000	0.237	0.168	0.153	0.018	0.405	0.390	0.255
	Top side	0.970	0.000	0.191	0.384	0.024	1.161	1.354	0.994
	Bottom side	0.000	0.355	0.000	0.000	0.000	0.355	0.355	0.355
7A_n66A	Front side	0.404	0.701	0.208	0.116	0.032	1.313	1.221	1.137
	Back side	0.473	0.410	0.424	0.317	0.069	1.307	1.200	0.952
	Left side	0.337	0.304	0.000	0.000	0.000	0.641	0.641	0.641
	Right side	0.000	0.152	0.168	0.153	0.018	0.320	0.305	0.170
	Top side	0.000	0.000	0.191	0.384	0.024	0.191	0.384	0.024



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	Bottom side	0.000	0.772	0.000	0.000	0.000	0.772	0.772	0.772
26A_n78A	Front side	0.224	0.274	0.208	0.116	0.032	0.706	0.614	0.530
	Back side	0.356	0.477	0.424	0.317	0.069	1.257	1.150	0.902
	Left side	0.127	0.000	0.000	0.000	0.000	0.127	0.127	0.127
	Right side	0.211	0.000	0.168	0.153	0.018	0.379	0.364	0.229
	Top side	0.000	0.618	0.191	0.384	0.024	0.809	1.002	0.642
	Bottom side	0.202	0.000	0.000	0.000	0.000	0.202	0.202	0.202
38A_n78A	Front side	0.345	0.274	0.208	0.116	0.032	0.827	0.735	0.651
	Back side	0.481	0.477	0.424	0.317	0.069	1.382	1.275	1.027
	Left side	0.399	0.000	0.000	0.000	0.000	0.399	0.399	0.399
	Right side	0.000	0.000	0.168	0.153	0.018	0.168	0.153	0.018
	Top side	0.000	0.618	0.191	0.384	0.024	0.809	1.002	0.642
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
41A_n78A	Front side	0.345	0.274	0.208	0.116	0.032	0.827	0.735	0.651
	Back side	0.481	0.477	0.424	0.317	0.069	1.382	1.275	1.027
	Left side	0.399	0.000	0.000	0.000	0.000	0.399	0.399	0.399
	Right side	0.000	0.000	0.168	0.153	0.018	0.168	0.153	0.018
	Top side	0.000	0.618	0.191	0.384	0.024	0.809	1.002	0.642
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
41A_n41A	Front side	0.345	1.008	0.208	0.116	0.032	1.561	1.469	1.385
	Back side	0.481	0.653	0.424	0.317	0.069	1.558	1.451	1.203
	Left side	0.399	0.247	0.000	0.000	0.000	0.646	0.646	0.646
	Right side	0.000	0.260	0.168	0.153	0.018	0.428	0.413	0.278
	Top side	0.000	0.000	0.191	0.384	0.024	0.191	0.384	0.024
	Bottom side	0.000	0.704	0.000	0.000	0.000	0.704	0.704	0.704
66A_n78A	Front side	0.196	0.274	0.208	0.116	0.032	0.678	0.586	0.502
	Back side	0.460	0.477	0.424	0.317	0.069	1.361	1.254	1.006
	Left side	0.497	0.000	0.000	0.000	0.000	0.497	0.497	0.497
	Right side	0.000	0.000	0.168	0.153	0.018	0.168	0.153	0.018
	Top side	0.000	0.618	0.191	0.384	0.024	0.809	1.002	0.642
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
66A_n38A	Front side	0.196	1.008	0.208	0.116	0.032	1.412	1.320	1.236
	Back side	0.460	0.653	0.424	0.317	0.069	1.537	1.430	1.182
	Left side	0.497	0.247	0.000	0.000	0.000	0.744	0.744	0.744
	Right side	0.000	0.260	0.168	0.153	0.018	0.428	0.413	0.278
	Top side	0.000	0.000	0.191	0.384	0.024	0.191	0.384	0.024
	Bottom side	0.000	0.704	0.000	0.000	0.000	0.704	0.704	0.704
66A_n41A	Front side	0.196	1.008	0.208	0.116	0.032	1.412	1.320	1.236
	Back side	0.460	0.653	0.424	0.317	0.069	1.537	1.430	1.182
	Left side	0.497	0.247	0.000	0.000	0.000	0.744	0.744	0.744
	Right side	0.000	0.260	0.168	0.153	0.018	0.428	0.413	0.278
	Top side	0.000	0.000	0.191	0.384	0.024	0.191	0.384	0.024
	Bottom side	0.000	0.704	0.000	0.000	0.000	0.704	0.704	0.704
66A_n7A	Front side	0.196	1.078	0.208	0.116	0.032	1.482	1.390	1.306
	Back side	0.460	0.674	0.424	0.317	0.069	1.558	1.451	1.203
	Left side	0.497	0.189	0.000	0.000	0.000	0.686	0.686	0.686
	Right side	0.000	0.255	0.168	0.153	0.018	0.423	0.408	0.273
	Top side	0.000	0.000	0.191	0.384	0.024	0.191	0.384	0.024
	Bottom side	0.000	0.789	0.000	0.000	0.000	0.789	0.789	0.789
66A_n66A	Front side	0.196	0.701	0.208	0.116	0.032	1.105	1.013	0.929
	Back side	0.460	0.410	0.424	0.317	0.069	1.294	1.187	0.939
	Left side	0.497	0.304	0.000	0.000	0.000	0.801	0.801	0.801
	Right side	0.000	0.152	0.168	0.153	0.018	0.320	0.305	0.170
	Top side	0.000	0.000	0.191	0.384	0.024	0.191	0.384	0.024



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Bottom side	0.000	0.772	0.000	0.000	0.000	0.772	0.772	0.772
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10 Equipment list

Test Platform		SPEAG DASY8 Professional				
Description		SAR Test System (Frequency range 10MHz-10GHz)				
Software Reference		DASY8 Module SAR V16.2.0.1425				
Hardware Reference						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration	
<input checked="" type="checkbox"/>	Twin Phantom	SPEAG	Twin-SAM V8.0	2103	NCR	NCR
<input checked="" type="checkbox"/>	Twin Phantom	SPEAG	SAM 3	1770	NCR	NCR
<input checked="" type="checkbox"/>	DAE	SPEAG	DAE4	1740	2023-11-03	2024-11-02
<input checked="" type="checkbox"/>	E-Field Probe	SPEAG	EX3DV4	7636	2023-06-05	2024-06-04
<input checked="" type="checkbox"/>	E-Field Probe	SPEAG	EX3DV4	7466	2023-01-26	2024-01-25
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	CLA13	1032	2023-02-09	2024-02-08
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D750V3	1210	2021-09-08	2024-09-07
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D835V2	4d161	2023-08-25	2024-08-24
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D1750V2	1038	2021-12-16	2024-12-15
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D1950V3	1218	2023-05-04	2024-05-03
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D2450V2	922	2023-08-28	2024-08-27
<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	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	2023-06-06	2024-06-05
<input checked="" type="checkbox"/>	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	0050920	2023-06-06	2024-06-05
<input checked="" type="checkbox"/>	Universal Radio Communication Tester	R&S	CMW500	111637	2023-09-13	2024-09-12
<input checked="" type="checkbox"/>	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR
<input checked="" type="checkbox"/>	Signal Generator	R&S	SMB100A	182393	2023-02-06	2024-02-05
<input checked="" type="checkbox"/>	Preamplifier	Qiji	YX28980933	202104001	NCR	NCR
<input checked="" type="checkbox"/>	Power Sensor	Keysight	U2002H	121251	2023-09-13	2024-09-12
<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	NA	2023-09-14	2024-09-13
<input checked="" type="checkbox"/>	Humidity and Temperature Indicator	MingGao	MingGao	NA	2023-09-14	2024-09-13

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



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11 Calibration certificate

Please see the Appendix C

12 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

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