

Report No.: SUCR2403000065AT

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FCC SAR TEST REPORT

Application No.: SUCR2403000065AT

Applicant:COOSEA GROUP (HK) COMPANY LIMITEDManufacturer:COOSEA GROUP (HK) COMPANY LIMITED

Product Name: Smart Phone **Model No.(EUT):** SN339D

FCC ID: 2A28USN339D

Standards: FCC 47CFR §2.1093

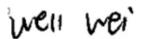
Date of Receipt: 2023-03-18

Date of Test: 2024-03-18 to 2024-03-22

Date of Issue: 2024-03-26
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
SUCR2403000065AT	01	Original	2024-03-26



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TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)				
Frequency Band	Head	Body-worn	Hotspot	Product specific 10g SAR	
GSM850	0.44	0.50	0.81	1	
GSM1900	0.89	0.70	0.93	3.04	
WCDMA Band II	0.79	1.04	0.81	2.24	
WCDMA Band V	0.33	0.34	0.48	1	
LTE Band 2	0.99	0.88	1.11	2.70	
LTE Band 12(17)	0.26	0.40	0.44	1	
LTE Band 14	0.28	0.36	0.42	/	
LTE Band 26(5)	0.29	0.39	0.49	/	
LTE Band 30	1.20	0.92	1.16	2.72	
LTE Band 48	0.68	0.30	0.73	/	
LTE Band 66(4)	1.07	0.66	0.98	2.24	
LTE Band 71	0.23	0.34	0.44	/	
NR Band n2	0.93	0.75	1.09	3.13	
NR Band n25	1.11	1.00	1.06	3.15	
NR Band n26	0.41	0.36	0.68	/	
NR Band n30	1.13	0.94	1.03	2.67	
NR Band n41	1.19	0.94	1.05	2.96	
NR Band n66	1.11	0.91	0.77	2.74	
NR Band n70	1.18	0.62	0.99	1	
NR Band n71	0.35	0.51	0.64	/	
NR Band n48	1.12	0.59	1.08	2.89	
NR Band n77-3500	1.08	0.51	1.12	2.38	
NR Band n77-3900	1.15	1.19	1.11	1	
WI-FI (2.4GHz)	0.38	0.36	0.36	/	
WI-FI (5GHz)	0.38	0.34	0.35	0.73	
BT	0.24	<0.10	<0.10	/	
SAR Limited(W/kg)		1.6		4.0	
	Maximum Simultaneou	s Transmission SAR (W/	/kg)		
Scenario	Head	Body-worn	Hotspot	Product specific 10g SAR	
Sum SAR	1.52	1.55	1.51	3.88	
SPLSR	/	1	/	1	
SPLSR Limited		0.04		0.1	

1) According to TCB workshop October,2014 RF Exposure Procedures Update (Overlapping Bands): SAR for LTE Band 5 (Frequency range:824 -MHz)/ LTE Band 17 (Frequency range:704-716 MHz)/LTE Band 38 (Frequency range:2570 - 2620 MHz)/ n78 (Frequency range:3300 - 3800 MHz is respectively covered by LTE Band 26 (Frequency range:814 - 849 MHz)/ LTE Band 12 (Frequency range:699-716 MHz)/LTE Band41 (Frequency range:2496 - 2690 MHz)/ n78 (Frequency range:3300 - 3800 MHz) due to similar frequency range, same maximum tune up limit and same channel bandwidth.

2) For LTE band 4/5/12/13/26 and n7/n41/n66/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.

3) According to the manufacturer's statement, perform validation testing on Ant 3 in the original report (original report No. SEWM2311000466RG09), and choose the worst SAR value to present.

Reviewed by

Nick Vhu

Nick Hu

Prepared by

koller chen



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1.1.1 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 178.1 mm. Per KDB 648474 D04, because the diagonal distance of this device is ≥160mm, so it is a phablet.

2) Ant 0 is sensor CS0 Ant 3 is sensor CS3 Ant 5 is sensor CS2

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:

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	EUT Sides for SAR Testing						
Mode	Exposure Condition	Front	Back	Left	Right	Тор	Bottom
Ant 0	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	Yes	No
Ant 4	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No
Ant 5	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No

Table 1: EUT Sides for SAR Testing

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:	COOSEA GROUP (HK) COMPANY LIMITED
Address:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL
Manufacturer:	COOSEA GROUP (HK) COMPANY LIMITED
Address:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL

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:	Koller Chen



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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

portable device	portable device			
uncontrolled environment /	uncontrolled environment / general population			
Smart Phone				
SN339D				
2A28USN339D				
Identical Prototype				
1# 356704760005501				
LTE: QPSK,16QAM,64QAM 5G NR: DFT-s-OFDM (PI/2	//,256QAM; BPSK, QPSK, 16QAM, 64QAI	M, 256QAM),		
, , ,	,	PSK		
В				
12	EGPRS Multi-slots Class:	12		
14	HSUPA UE Category	7		
24				
4,tested with power level 5(GSM850)			
1,tested with power level 0(GSM1900)				
· · · · · · · · · · · · · · · · · · ·				
3, tested with power control				
Band	Tx (MHz)	Rx (MHz)		
GSM850	824~849	869~894		
GSM1900	1850~1910	1930~1990		
WCDMA Band II	1850~1910	1930~1990		
WCDMA Band V		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 12		729~746		
		758~768		
	704~716	734~746		
LTE Band 26				
LTE Band 30		859~894 2350~2360		
		3550~3700		
		2110~2200 617~652		
		1930~1990		
NR Band n5 824~849		869~894		
	uncontrolled environment / 9 Smart Phone SN339D 2A28USN339D Identical Prototype 1# 356704760005501 2# 356704760003746 1.0 SN339DD10010 Ons: GSM: GMSK, 8PSK; WCDM LTE: QPSK,16QAM,64QAM 5G NR: DFT-s-OFDM (PI/2 CP-OFDM (QPSK, 16QAM,WIFI: DSSS, OFDM, OFDM B 12 14 24 4,tested with power level 5(1) 1,tested with power control 3, tested with power control 3, tested with power control Band GSM850 GSM1900 WCDMA Band II WCDMA Band V LTE Band 2 LTE Band 4 LTE Band 12 LTE Band 14 LTE Band 17 LTE Band 26 LTE Band 30 LTE Band 48 LTE Band 66 LTE Band 71 NR Band n2	Uncontrolled environment / general population Smart Phone SN339D 2A28USN339D Identical Prototype 1# 356704760005501 2# 356704760003746 1.0 SN339DD10010 SN339DD10010 SNS: GSM: GMSK, 8PSK; WCDMA: QPSK,16QAM; LTE: QPSK,16QAM,64QAM,256QAM; 5G NR: DFT-s-OFDM (PI/2 BPSK, QPSK, 16QAM, 64QAI CP-OFDM (QPSK, 16QAM, 64QAM, 256QAM)) WIFI: DSSS, OFDM, OFDMA; BT: GFSK, π/4DQPSK,8D B 12		



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	NR Band n26	814~849	859~894	
	NR Band n30	2305~2315	2350~2360	
	NR Band n41	2496~ 2690	2496~269	
	NR Band n48	3550~3700	3550~3700	
	NR Band n66	1710~1780	2110~2200	
	NR Band n70	1695~1710	1995~2020	
	NR Band n71	663~698	617~652	
	ND Dand 277	3450~3550	3450~3550	
	NR Band n77	3700~3980	3700~3980	
	Bluetooth	2400~2483.5	2400~2483.5	
	Wi-Fi 2.4G	2402~2462	2402~2462	
	Wi Fi FO	5150~5250	5150~5250	
		5250~5350	5250~5350	
	Wi-Fi 5G	5470~5725	5470~5725	
		5725~5850	5725~5850	
RF Cable:	☐ Provided by the	he aplicant Provided by the laboratory		
	Model:	BL-A62CT		
4# Detter : Information	Normal Voltage:	3.87V		
1# Battery Information:	Typical capacity:	4900mAh		
	Manufacturer:	Guangdong Fenghua New Energy Co.,Ltd.		
Note: *Since the above data and/or in	oformation is provided by the client rela	evant results or conclusions of this repo	t are only made for	

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2.4.1 LTE CA additional specification

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

a) 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 Appendix E 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.

2CC Downlink Carrier Aggregation	2CC Downlink Carrier Aggregation
CA_2A-2A	CA_5A-30A
CA_2A-4A	CA_5A-66A
CA_2A-5A	CA_12A-30A
CA_2A-12A	CA_12A-66A
CA_2A-14A	CA_14A-30A
CA_2A-29A	CA_14A-66A
CA_2A-30A	CA_29A-30A
CA_2A-48A	CA_29A-66A
CA_2A-66A	CA_30A-66A
CA_2A-71A	CA_48C
CA_2C	CA_48B
CA_4A-4A	CA_48A-66A
CA_4A-5A	CA_66C
CA_4A-12A	CA_66B
CA_4A-71A	CA_66A-66A
CA_4A-29A	CA_66A-71A
CA_4A-30A	

b) Intra-band carrier aggregation requirements for uplink.

2CC Uplink Carrier Aggregation	2CC Uplink Carrier Aggregation		
CA_2A-12A	CA_2A-5A		
CA_12A-66A	CA_2A-14A		
CA_4A-12A	CA_5A-66A		



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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.



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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 ≤ the LTE Band, the SAR data of the LTE Band is used instead of the SAR data of the LTE Inter-band uplink band.



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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 hotspot mode becomes active. When the hotspot is disabled, the power value will be recovered.
- 2) A fixed level power reduction is applied for some frequency bands when 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
KDB 941225 D01	3G SAR Measurement Procedures v03r01
KDB 941225 D05	SAR for LTE Devices v02r05
KDB 941225 D05A	LTE Rel.10 KDB Inquiry Sheet v01r02
KDB 941225 D06	Hotspot Mode SAR v02r01
KDB 248227 D01	SAR Guidance for IEEE 802 11 Wi-Fi SAR v02r02
KDB 648474 D04	Handset SAR v01r03
KDB 447498 D01	General RF Exposure Guidance v06
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02
KDB 690783 D01	SAR Listings on Grants v01r03
KDB 616217 D04	SAR for laptop and tablets v01r02



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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:

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.)



^{*} 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.



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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= σ (|Ei|2)/ ρ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

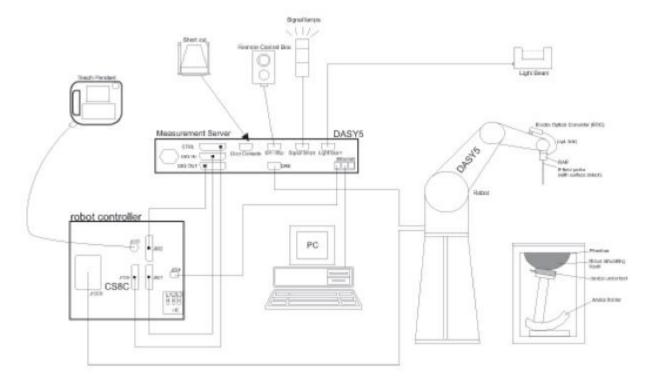
The DASY5 system for performing compliance tests consists of the following items:

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 calibration service available.
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 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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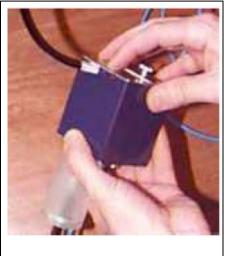


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4.3 Data Acquisition Electronics (DAE)

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	Compatible with all SPEAG tissue				
Compatibility	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 ε =3 and loss tangent δ =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≤2GHz), 30mm*30mm*30mm (f for 2-3GHz) and 24mm*24mm*22mm (f for 5-6GHz) was assessed by measuring 5x5x7 points (f≤2GHz), 7x7x7 points (f for 2-3GHz) and 7x7x12 points (f for 5-6GHz). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

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

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



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			≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5 ± 1 mm	½·8·ln(2) ± 0.5 mm	
Maximum probe angle from probe axis to phantom surface normal at the measurement location		30° ± 1°	20° ± 1°	
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}		\leq 2 GHz: \leq 15 mm 3 - 4 GHz: \leq 12 mm 2 - 3 GHz: \leq 12 mm 4 - 6 GHz: \leq 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 ≤ 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}		\leq 2 GHz: \leq 8 mm 2 – 3 GHz: \leq 5 mm [*]	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*	
	uniform grid: ∆z _{Zoom} (n)		3 - 4 GHz: ≤ 4 m ≤ 5 mm 4 - 5 GHz: ≤ 3 m 5 - 6 GHz: ≤ 2 m	
Maximum zoom scan spatial resolution, normal to phantom surface graded grid	graded	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	$3-4 \text{ GHz:} \le 3 \text{ mm}$ $4-5 \text{ GHz:} \le 2.5 \text{ mm}$ $5-6 \text{ GHz:} \le 2 \text{ mm}$
	grid	Δz _{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 reevaluated. 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 factorDiode compression pointDcpi

Device parameters: - Frequency f

- Crest factor cf Media parameters: - Conductivity ε

- Density p

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:

$$V_i = U_i + U_i^2 \cdot c f / d c p_i$$

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

Ui = 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 Vi = compensated signal of channel i (i = x, y, z)
Normi = sensor sensitivity of channel I (i = x, y, z)

[mV/(V/m)2] for E-field Probes

ConvF = sensitivity enhancement in solution

aij = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

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

Hi = 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.

$$SAR = (Etot^2 \cdot \sigma) / (\varepsilon \cdot 1000)$$

SAR = local specific absorption rate in mW/g with

Etot = 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.

$$P_{pwe} = E_{tot}^2 \frac{2}{3770} \,_{or} \, P_{pwe} = H_{tot}^2 \cdot 37.7$$

Ppwe = equivalent power density of a plane wave in mW/cm2

Etot = total electric field strength in V/m

Htot = 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 remounted 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 \geq 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 \geq 1.45 W/kg (\sim 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.



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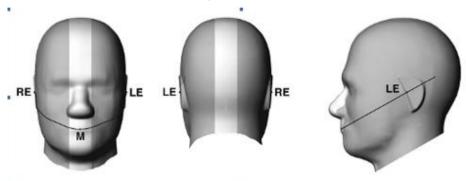
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6 Description of Test Position

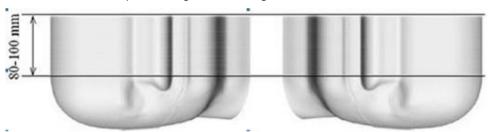
6.1 Head Exposure Condition

6.1.1 SAM Phantom Shape

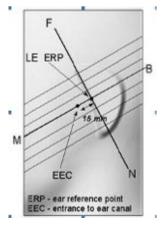


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

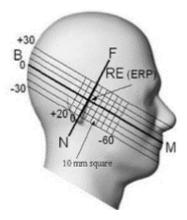
Note: The centre strip including the nose region has a different thickness tolerance.



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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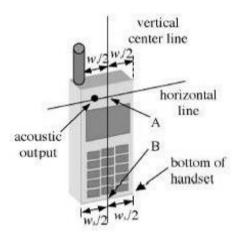


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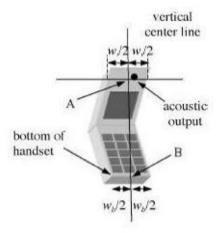
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EUT constructions 6.1.2



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

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



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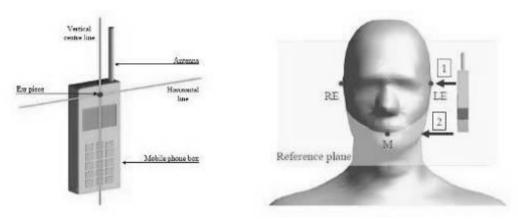
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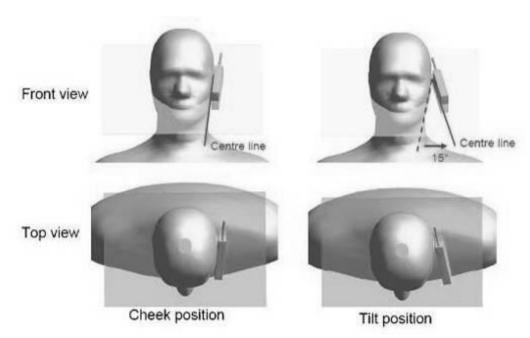
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6.1.4 Definition of the "tilted" position

- 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

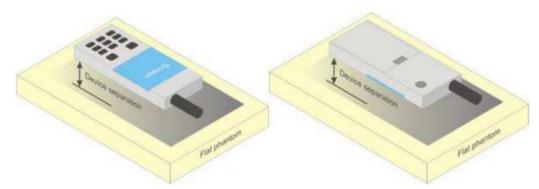
6.2.1 Body-worn accessory exposure conditions

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, Bodyworn 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 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 x W \geq 9 cm x 5 cm) are based on a composite test separation distance of 10 mm from the front, back and edges of the device containing transmitting antennas within 2.5 cm of their edges, determined from general mixed use conditions for this type of devices. For devices with form factors smaller than 9 cm x 5 cm, a test separation distance of 5 mm is required.

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 ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for Product Specific 10-g SAR

located at \leq 25 mm from that surface or edge, in direct contact with a flat phantom, for Product Specific 10-g SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.

Due to the SAR result, 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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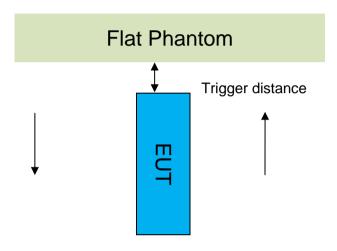
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6.4 Proximity Sensor Triggering Test

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)						
	Ant5					
Position	Front	Back	Back Right Side		Top Side	
Minimum	10	19	17		19	
Required SAR Test	9	18	16		18	
	Ant3					
Position	Front	Ва	Back		Top Side	
Minimum	6 19		19 18		18	
Required SAR Test	5		8		17	

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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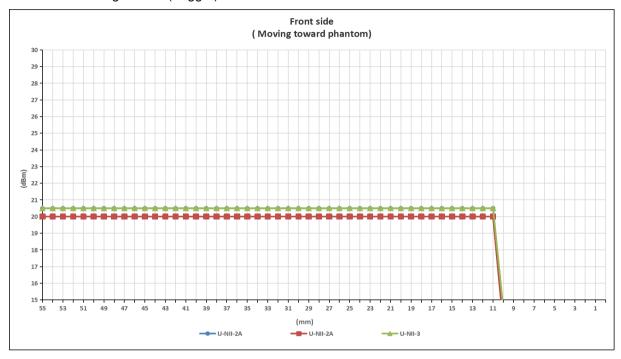
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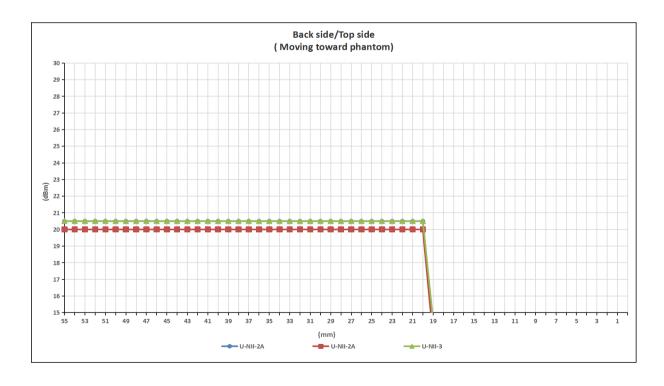


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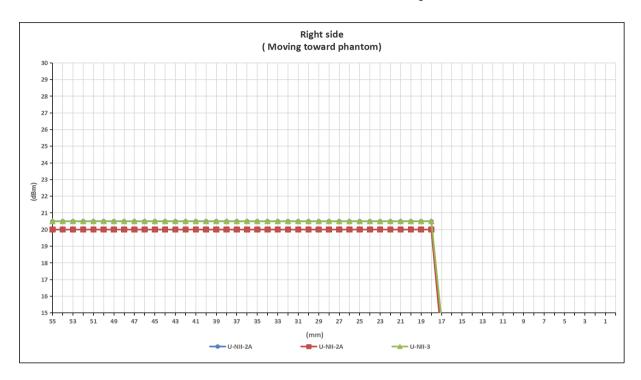
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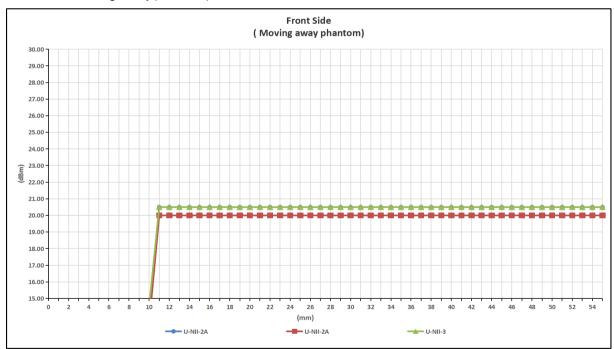


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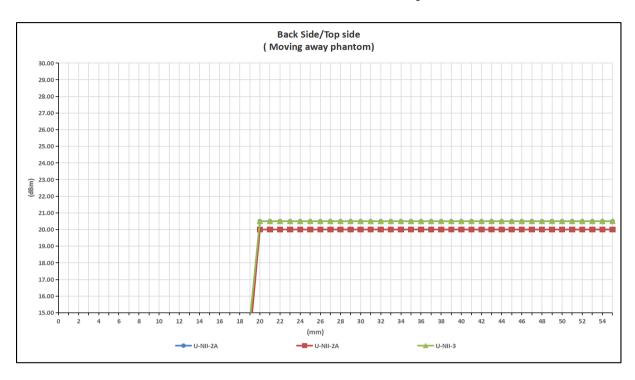
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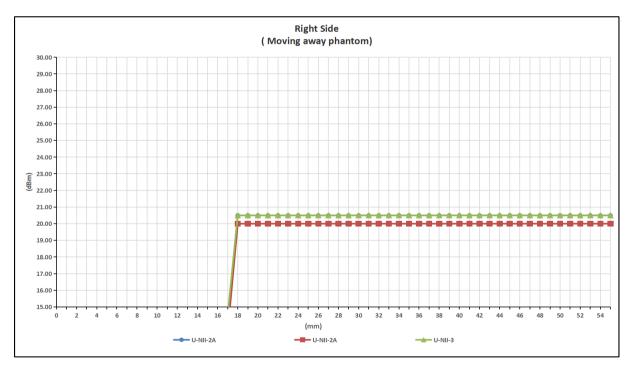
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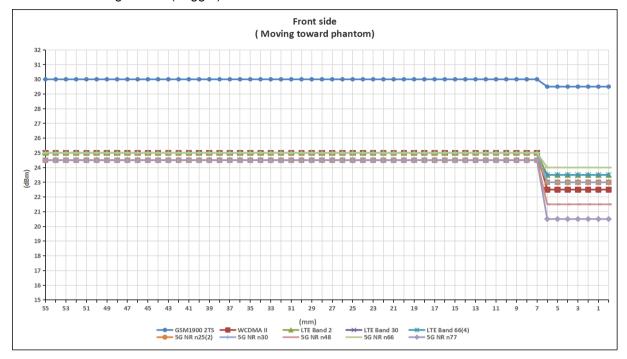
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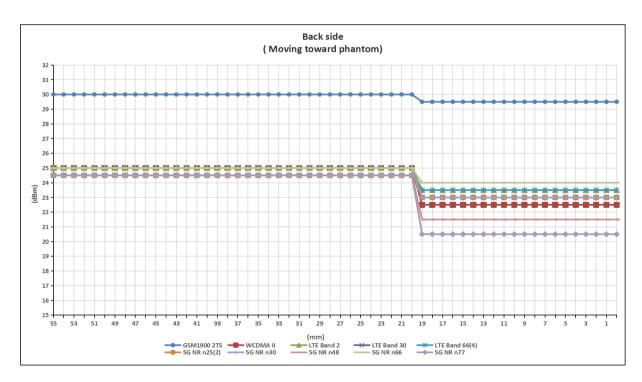


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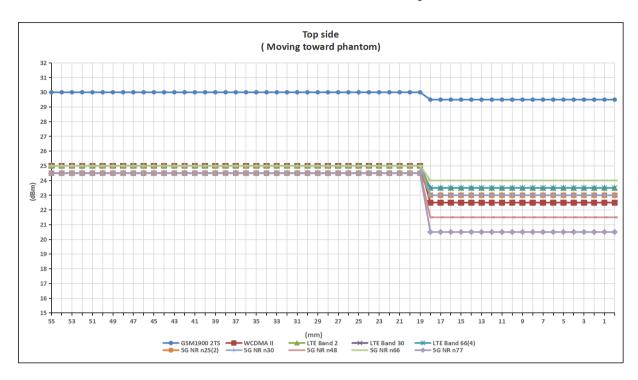
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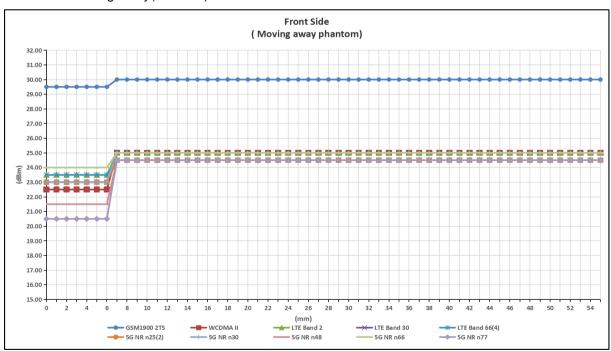


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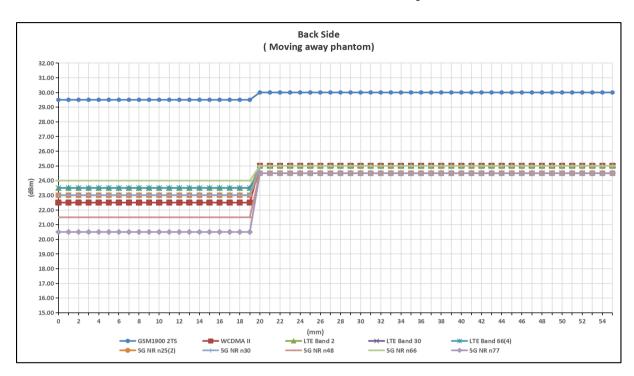
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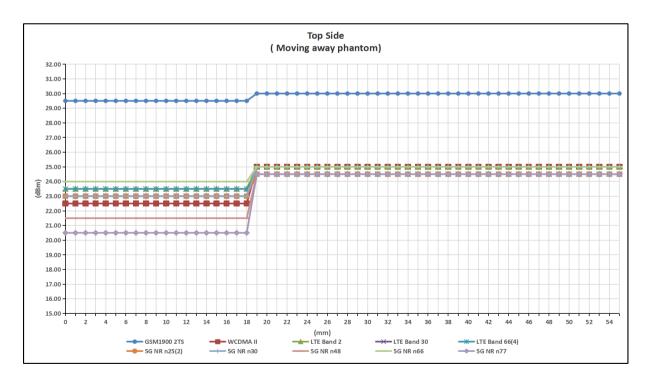
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Proximity sensor coverage

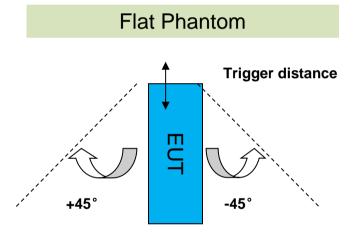
If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage testing, 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	Minimum trigger	Minimum trigger distance at which	Power Reduction Status										
(MHz)	(MHz) distance Per KDB616217§6.2	power reduction was maintained over ±45°	-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°
Ant5	Top side:19mm	Top side:19mm	on	on	on	on	on	on	on	on	on	on	on
Ant3	Top side:18mm	Top side:18mm	on	on	on	on	on	on	on	on	on	on	on



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Sucrose: 98+% Pure Sucrose

HEC: Hydroxyethyl Cellulose

7 SAR System Verification Procedure

7.1 Tissue Simulate Liquid

7.1.1 Recipes for Tissue Simulate Liquid

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

Ingredients	Frequency (MHz)									
(% by weight)	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

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±2°C.

		N	leasurement	for Tissue Simulat	e Liquid		
	Measured	Target Tis	sue (±5%)	Measure	d Tissue	Liquid Temp.	
Tissue Type	Frequency (MHz)	٤r	σ(S/m)	ε _r	σ(S/m)	(℃)	Test Date
1750 Head	1750	40.1	1.37	40.314	1.374	22.3	2024-3-18
1950 Head	1950	40.0	1.40	40.507	1.417	22.1	2024-3-19
1950 Head	1950	40.0	1.40	40.571	1.429	22.2	2024-3-20
2300 Head	2300	39.5	1.67	39.047	1.644	21.9	2024-3-21
2600 Head	2600	39.0	1.96	37.927	1.978	22.1	2024-3-22

Table 4: Measurement result of Tissue electric parameters.



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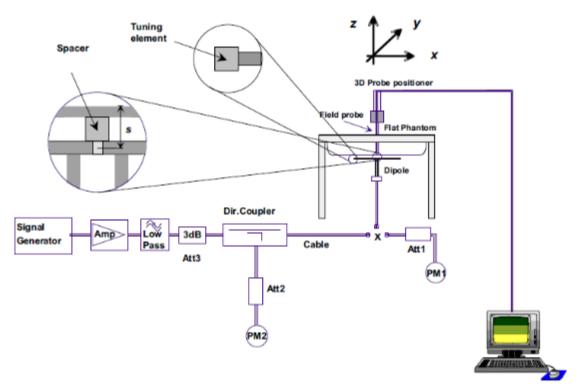


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7.2 SAR System Check

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±2°C, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15±0.5 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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Fig. 1. **The Company Ample (s) are retained for 30 days only.

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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)

Valid	dation Kit	Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)		Target SAR (normalized to 1W)		(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)		
D1750V2	Head	8.69	4.61	34.76	18.44	35.30	18.70	-1.53%	-1.39%	22.3	2024-3-18
D1950V2	Head	9.92	5.08	39.68	20.32	39.70	20.30	-0.05%	0.10%	22.1	2024-3-19
D1950V2	Head	9.98	5.15	39.92	20.60	39.70	20.30	0.55%	1.48%	22.2	2024-3-20
D2300V2	Head	12.10	5.79	48.40	23.16	48.70	23.30	-0.62%	-0.60%	21.9	2024-3-21
D2600V2	Head	14.20	6.36	56.80	25.44	57.10	25.40	-0.53%	0.16%	22.1	2024-3-22

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 spreaing 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 \leq 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	βc	Bd	βd(SF)	βc/βd	βhs	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: \triangle ACK, \triangle NACK and \triangle CQI= 8 Ahs = β hs/ β c=30/15 β hs=30/15* β 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, \triangle ACK and \triangle NACK= 8 (Ahs=30/15) with β hs=30/15* β c,and \triangle CQI=

7 (Ahs=24/15) with β hs= $24/15*\beta$ c.

Note3: CM=1 for β c/ β d =12/15, β hs/ β 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	MaximumH S-DSCH Transport BlockBits/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₽	βορ	βd₽	βd (SF)θ	β₀∕β⋴ℴ	β _{hs} (1)↔	β _{ec+} ³	$eta_{ t ed} arphi$	β _e _{o+} (SF)+	β _{ed} ↔ (code	CM ⁽ 2)↔ (dB)↔	MP R↓ (dB)↓	AG ⁽⁴)↔ Inde x↔	E- TFC I _e	1
1₽	11/15(3)+3	15/15(3)	64₽	11/15(3)43	22/15₽	209/22 5₊³	1039/225	4₽	1₽	1.04	0.0₽	20₽	75₽	*
2₽	6/15₽	15/15₽	64₽	6/15₽	12/15₽	12/15₽	94/75₽	4₽	1₽	3.0₽	2.0₽	12 ₽	67₽	-
3₽	15/15	9/15₽	64₽	15/9₽	30/15₽	30/15₽	β _{ed1} :47/1 5 ₄ β _{ed2:} 47/1 5 ₄	4₽	2₽	2.0₽	1.0₽	15.0	92₽	4
4₽	2/15₽	15/15₽	64₽	2/15₽	4/15₽	2/15₽	56/75₽	4₽	1₽	3.0₽	2.0₽	17₽	71₽].
5₽	15/15(4)+3	15/15(4)(3	64₽	15/15(4)43	30/15₽	24/15₽	134/15₽	40	1₽	1.0₽	0.0₽	21	81₽]

 \triangle ACK, \triangle NACK and \triangle CQI = 8 $A_{hs} = \beta_{hs}/\beta_{o} = 30/15$ $\beta_{hs} = 30/15 * \beta_{e4}$

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

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

Note 4: For subtest 5 the β₆/β₄ 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 β_c = 14/15 and β_d = 15/15ψ

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 ₽

Note 6: βed can not be set directly; it is set by Absolute Grant Value.

Table 8: Subtests for UMTS Release 6 HSUPA

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCH TTI(ms)	Minimum Speading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)
1	1	4	10	4	7110	0.7296
2	2	8	2	4	2798	4 4500
2	2	4	10	4	14484	1.4592
3	2	4	10	4	14484	1.4592
4	2	8	2	2	5772	2.9185
4	2	4	10	2	20000	2.00
5	2	4	10	2	20000	2.00
6	4	8	10	2SF2&2SF	11484	5.76
(No DPDCH)	4	4	2	4	20000	2.00
7	4	8	2	2SF2&2SF	22996	?
(No DPDCH)	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-

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/lor	dB	-10
P-CCPCH and SCH_Ec/lor	dB	-12
PICH _Ec/lor	dB	-15
HS-PDSCH	dB	off
HS-SCCH_1	dB	off
DPCH_Ec/lor	dB	-5
OCNS_Ec/lor	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.

Value
60 kbit/s
1 TTI's
6 Processes
120 Bits
1 Block
960 Bits
19200 SMLs
3200 SMLs
0.15
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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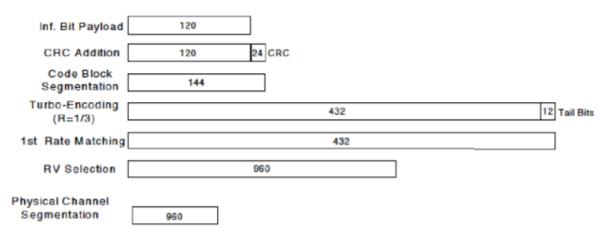


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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

Sub-test₽	βe₽	$\beta_{d^{e^2}}$	β _d ·(SF)₽	$\beta_c \cdot / \beta_{d^{o}}$	β _{hs} .(1) _Θ	CM(dB)(2)	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₽

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

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=100%

Ref Level 30.	Spectrum O0 dBm Offse 30 dB • SWT	t 1.00 dB • RB				SGL Count 1/1
1 Zero Span						01Pk Clrw
20 dBm-	——TRG 16.300 dë	ım				
10 dBm	110 201000 0	""				
0 dBm						
-10 dBm						
-20 dBm						
-40 dBm-						
-50 dBm-						
-60 dBm						
TRG CF 2.412 GHz			1001	pts		2.0 ms/



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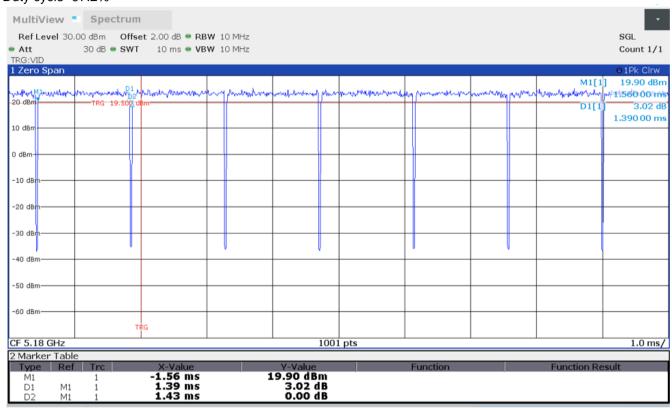


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Wi-Fi 5GHz 802.11a: Duty cycle=97.2%





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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:

- 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.

 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:
 - 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.

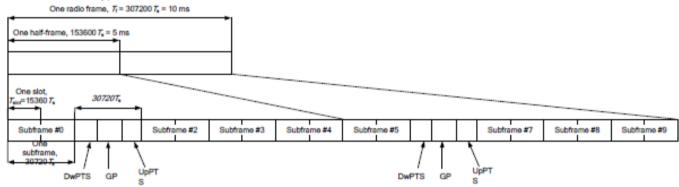
TDD LTE test consideration

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	•	nal cyclic prefix in	downlink	Extended cyclic prefix in downlink				
subframe	DwPTS	Up	PTS	DwPTS	Up	PTS		
configuration		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		
0	6592.Ts			7680.Ts				
1	19760.Ts			20480.Ts	2192.Ts	2560.Ts		
2	21952.Ts	2192.Ts	2560.Ts	23040.Ts	2192.15	2500.15		
3	24144.Ts			25600.Ts				
4	26336.Ts			7680.Ts				
5	6592.Ts			20480.Ts	4204 To	5120 To		
6	19760.Ts			23040.Ts	4384.Ts	5120.Ts		
7	21952.Ts	4384.Ts	5120.Ts	25600.Ts				
8	24144.Ts			-	-	-		
9	13168.Ts			-	-	-		

Uplink-downlink configurations.

Uplink-downlink	Downlink-to-				St	ubframe	e numb	er			
configuration	Uplink Switch- point periodicity	0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	С
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 Configurat	Downlink-to- Uplink Switch- point Periodicity				Subfra	ame N	umber					Calculated Duty
ion	point Periodicity	0	1	2	3	4	5	6	7	8	9	Cycle (%)
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	Cha	nnel bandwi	idth / Tra	ansmission	bandwidth ((N _{RB})	MPR (dB)				
	1.4	3.0	5	10	15	20					
	MHz										
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1				
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1				
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2				
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2				
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3				

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 \leq 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

2) QPSK with 50% RB allocation

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

3) QPSK with 100% RB allocation

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

4) Higher order modulations

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

E) Other channel bandwidth standalone SAR test requirements

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



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8.2.5 NR Band Test Configuration

1. NR Band n5/n7/n38/n41/n66/n77/n78 support SA mode and n5/n7/n38/n41/n66/n78 support NSA mode. LTE+NR Band operations are possible only with LTE under EN-DC mode and the operations are possible as following table:

Day 1/Antan		n	2	n5	n25	n41	ne	66	n71	n77
Band/Anten	ina	Ant2	Ant3	Ant0	Ant3	Ant3	Ant2	Ant3	Ant0	Ant4
LTE Band 2	Ant2		√		√	√		√		
LTE Band 2	Ant3			√					√	
LTE Band 5	Ant0		√		√			√		√
LTE Band 12	Ant0		√		√			√		√
LTE Band 14	Ant0		√		√			√		√
LTE Band 25	Ant2		√		√	√		√		√
LTE Ballu 25	Ant3			√					√	
LTE Band 30	Ant2									√
LTL Band 30	Ant3	√		√			√		√	
LTE Band 41	Ant3	√		√			√		√	
LTE D 1 00	Ant2		√		√	√		√		√
LTE Band 66	Ant3			√					√	



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

	Band		N2	N5	N25	N26	N30	N41	N48	N66	N70	N71	n77 PC3	n77 PC3
		PI/2 BPSK	Yes	Yes										
	DET	QPSK	Yes	Yes										
	DFT-s- OFDM	16QAM	Yes	Yes										
		64QAM	Yes	Yes										
Modulation		256QAM	Yes	Yes										
		QPSK	Yes	Yes										
	CP-	16QAM	Yes	Yes										
	OFDM	64QAM	Yes	Yes										
		256QAM	Yes	Yes										
D	Duty Cycle		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	50%

		Bandwidth												
Band	SCS	5Mh z	10Mh z	15Mh z	20Mh z	25Mh z	30Mh z	40Mh z	50Mh z	60Mh z	70Mh z	80Mh z	90Mh z	100Mh z
N2	15KH Z	Yes	Yes	Yes	Yes	N/A								
N5	15KH Z	Yes	Yes	Yes	Yes	N/A								
N25	15KH Z	Yes	Yes	Yes	Yes	N/A								
N26	15KH Z	Yes	Yes	Yes	Yes	N/A								
N30	15KH Z	Yes	Yes	N/A										
N41	30KH Z	N/A	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes
N48	30KH Z	N/A	Yes	Yes	Yes	N/A	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A
N66	15KH Z	Yes	Yes	Yes	Yes	N/A	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A
N70	15KH Z	Yes	Yes	Yes	N/A									
N71	15KH Z	Yes	Yes	Yes	Yes	N/A								
n77 PC3	30KH Z	N/A	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes
n77 PC2	30KH Z	N/A	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	N/A	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.

Modul	lation		MPR (dB)			
Modul	lation	Edge RB allocations	Outer RB allocations	Inner RB allocations		
	PI/2 BPSK	≤ 3.5 ¹	≤ 1.2 ¹	≤ 0.2 ¹		
	FI/Z BF3K	≤ 0.5 ²	≤ 0.5 ²	0 ²		
DFT-s-OFDM	QPSK	≤	1	0		
	16 QAM	≤	2	≤ 1		
	64 QAM		≤ 2.5			
	256 QAM		≤ 4.5			
	QPSK	≤	3	≤ 1.5		
CP-OFDM	16 QAM	≤	3	≤ 2		
CF-OFDIVI	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 n77. 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 n77 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 n77.
- 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_2A_n5 (UL 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 ≤ 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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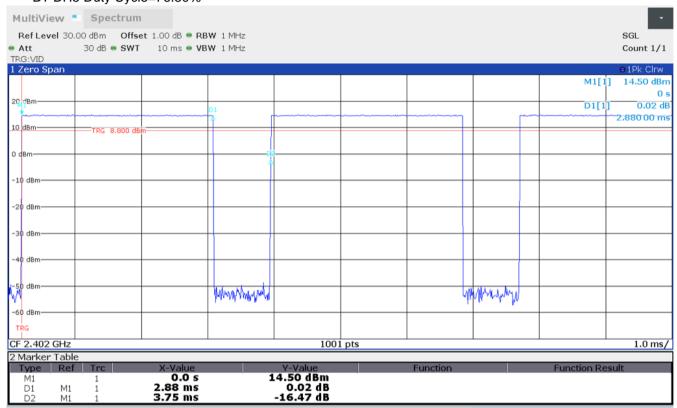
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1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.

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%





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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:
 - ≤ 0.8W/kg for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is ≤ 100MHz.
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 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:

 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.

WiFi 5G:

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





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9.2.1 SAR Result of GSM850

	GSM850 SAR Test Record												
	Ant 0 Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)			
	Head Test Data												
Left cheek	GPRS 4TS	190/836.6	1:2.075	0.238	-0.19	28.99	30.00	1.262	0.300	22.4			
Left tilted	GPRS 4TS	190/836.6	1:2.075	0.196	-0.07	28.99	30.00	1.262	0.247	22.4			
Right cheek	GPRS 4TS	190/836.6	1:2.075	0.345	-0.05	28.99	30.00	1.262	0.435	22.4			
Right tilted	GPRS 4TS	190/836.6	1:2.075	0.229	0.02	28.99	30.00	1.262	0.289	22.4			
				Body	worn Test	t data(Separate 15m	nm)						
Front side	GPRS 4TS	190/836.6	1:2.075	0.267	0.16	28.99	30.00	1.262	0.337	22.4			
Back side	GPRS 4TS	190/836.6	1:2.075	0.397	-0.08	28.99	30.00	1.262	0.501	22.4			
				Hots	spot Test of	data(Separate 10mn	n)						
Front side	GPRS 4TS	190/836.6	1:2.075	0.428	-0.12	28.99	30.00	1.262	0.540	22.4			
Back side	GPRS 4TS	190/836.6	1:2.075	0.640	0.08	28.99	30.00	1.262	0.808	22.4			
Back side	GPRS 4TS	190/836.6	1:2.075	0.632	0.03	28.99	30.00	1.262	0.797	22.4			
Back side	GPRS 4TS	190/836.6	1:2.075	0.638	0.01	28.99	30.00	1.262	0.805	22.4			
Left side	GPRS 4TS	190/836.6	1:2.075	0.000	0.00	28.99	30.00	1.262	0.000	22.4			

Table 11: SAR of GSM850 for Head and Body.

9.2.2 SAR Result of GSM1900

3.2.2 OF		111 01 001								
				GSN		R Test Record				
	1				1	st Record		ı		
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.(℃)
					Head T	est Data				
Left cheek	GPRS 2TS	661/1880	1:4.15	0.305	0.18	22.74	23.50	1.191	0.363	21.9
Left tilted	GPRS 2TS	661/1880	1:4.15	0.373	-0.13	22.74	23.50	1.191	0.444	21.9
Right cheek	GPRS 2TS	661/1880	1:4.15	0.595	0.08	22.74	23.50	1.191	0.709	21.9
Right tilted	GPRS 2TS	661/1880	1:4.15	0.749	0.11	22.74	23.50	1.191	0.892	21.9
Right tilted	GPRS 2TS	512/1850.2	1:4.15	0.716	0.07	22.62	23.50	1.225	0.877	21.9
Right tilted	GPRS 2TS	810/1909.8	1:4.15	0.725	-0.05	22.65	23.50	1.216	0.882	21.9
				Body wor	n Test da	ta(Separate 15mm)			
Front side	GPRS 2TS	661/1880	1:4.15	0.384	0.02	29.41	30.00	1.146	0.440	21.9
Back side	GPRS 2TS	661/1880	1:4.15	0.612	0.10	29.41	30.00	1.146	0.701	21.9
				Hotspot	Test data	a(Separate 10mm)				
Front side	GPRS 2TS	661/1880	1:4.15	0.403	0.08	27.15	28.00	1.216	0.490	21.9
Back side	GPRS 2TS	661/1880	1:4.15	0.517	0.02	27.15	28.00	1.216	0.629	21.9
Left side	GPRS 2TS	661/1880	1:4.15	0.134	-0.05	27.15	28.00	1.216	0.163	21.9
Right side	GPRS 2TS	661/1880	1:4.15	0.048	-0.08	27.15	28.00	1.216	0.058	21.9
Top side	GPRS 2TS	661/1880	1:4.15	0.659	0.11	27.15	28.00	1.216	0.801	21.9
Top side	GPRS 2TS	512/1850.2	1:4.15	0.628	0.04	27.09	28.00	1.233	0.774	21.9
Top side	GPRS 2TS	810/1909.8	1:4.15	0.759	-0.08	27.11	28.00	1.227	0.932	21.9
Test position	Test mode	Test ch./Freq.	Duty Cycle	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.(℃)
			Produc	ct specific	10g SAR	Test data(Separat	e 0mm)			·
Back side	GPRS 2TS	661/1880	1:4.15	1.860	0.06	29.41	30.00	1.146	2.131	21.9
Back side	GPRS 2TS	512/1850.2	1:4.15	1.660	0.13	29.37	30.00	1.156	1.919	21.9
Back side	GPRS 2TS	810/1909.8	1:4.15	1.740	0.04	29.38	30.00	1.153	2.007	21.9



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Top side	GPRS 2TS	661/1880	1:4.15	2.650	-0.06	29.41	30.00	1.146	3.036	21.9
Top side	GPRS 2TS	512/1850.2	1:4.15	2.580	-0.17	29.37	30.00	1.156	2.983	21.9
Top side	GPRS 2TS	810/1909.8	1:4.15	2.630	-0.15	29.38	30.00	1.153	3.034	21.9
Top side - Repeat	GPRS 2TS	661/1880	1:4.15	2.590	-0.01	29.41	30.00	1.146	2.967	21.9

Table 12: SAR of GSM1900 for Head and Body.

Test Besition	Channel/ Frequency	Measured SAR (10g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated	
Test Position	(MHz)	Measured SAR (10g)	SAR (10g)	Ratio	SAR (10g)	SAR (10g)	
Top side	661/1880	2.65	2.59	1.023166023	N/A	N/A	

Note: 1) When the original highest measured SAR is ≥ 2.0 W/kg, the measurement was repeated once.

9.2.3 SAR Result of WCDMA Band II

				WCDN	IA Band	II SAR Test Record	d				
					Ant 3 To	est 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.(℃)	
					Head	Test Data					
Left cheek	RMC	9400/1880	1:1	0.330	0.07	15.11	16.00	1.227	0.405	21.9	
Left tilted	RMC	9400/1880	1:1	0.395	0.05	15.11	16.00	1.227	0.485	21.9	
Right cheek	RMC	9400/1880	1:1	0.558	-0.05	15.11	16.00	1.227	0.685	21.9	
Right tilted	RMC	9400/1880	1:1	0.645	0.06	15.11	16.00	1.227	0.792	21.9	
Body worn Test data(Separate 15mm)											
Front side	RMC	9400/1880	1:1	0.621	0.02	24.35	25.00	1.161	0.721	21.9	
Back side	RMC	9400/1880	1:1	0.893	0.16	24.35	25.00	1.161	1.037	21.9	
Back side	RMC	9262/1852.4	1:1	0.855	0.02	24.28	25.00	1.180	1.009	21.9	
Back side	RMC	9538/1907.6	1:1	0.843	-0.01	24.14	25.00	1.219	1.028	21.9	
Back side -Repeat	RMC	9400/1880	1:1	0.886	0.04	24.35	25.00	1.161	1.029	21.9	
Hotspot Test data(Separate 10mm)											
Front side	RMC	9400/1880	1:1	0.341	-0.02	19.59	20.50	1.233	0.420	21.9	
Back side	RMC	9400/1880	1:1	0.466	-0.10	19.59	20.50	1.233	0.575	21.9	
Left side	RMC	9400/1880	1:1	0.113	0.02	19.59	20.50	1.233	0.139	21.9	
Right side	RMC	9400/1880	1:1	0.029	-0.06	19.59	20.50	1.233	0.036	21.9	
Top side	RMC	9400/1880	1:1	0.651	0.10	19.59	20.50	1.233	0.803	21.9	
Top side	RMC	9262/1852.4	1:1	0.443	0.02	19.53	20.50	1.250	0.554	21.9	
Top side	RMC	9538/1907.6	1:1	0.644	-0.17	19.51	20.50	1.256	0.809	21.9	
Test position	Test mode	Test ch./Freq.	Duty Cycle	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.(℃)	
		Pro	oduct spe	ecific (Ser	isro on) 1	0g SAR Test data(S	Separate 0mm)				
Front side	RMC	9400/1880	1:1	1.700	0.01	21.69	22.50	1.205	2.049	21.9	
Front side	RMC	9262/1852.4	1:1	1.610	0.06	21.64	22.50	1.219	1.963	21.9	
Front side	RMC	9538/1907.6	1:1	1.670	0.10	21.60	22.50	1.230	2.055	21.9	
Back side	RMC	9400/1880	1:1	1.420	0.09	21.69	22.50	1.205	1.711	21.9	
Top side	RMC	9400/1880	1:1	1.750	-0.09	21.69	22.50	1.205	2.109	21.9	
Top side	RMC	9262/1852.4	1:1	1.580	0.01	21.64	22.50	1.219	1.926	21.9	
Top side	RMC	9538/1907.6	1:1	1.820	-0.06	21.60	22.50	1.230	2.239	21.9	
			Pro	duct spec	ific (Sens	ro off) 10g SAR Te	st data				
Front side-5mm	RMC	9538/1907.6	1:1	1.350	0.08	24.14	25.00	1.219	1.646	21.9	



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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 ≥ 3.63 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 ≥ 3.75 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 < 2.0 W/kg



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Back side-18mm	RMC	9400/1880	1:1	0.369	0.02	24.35	25.00	1.161	0.429	21.9
Top side-17mm	RMC	9538/1907.6	1:1	0.575	-0.10	24.14	25.00	1.219	0.701	21.9

Test Position	Channel/ Frequency	Massured SAR (1a)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated	
rest Position	(MHz)	Measured SAR (1g)	SAR (1g)	Ratio	SAR (1g)	SAR (1g)	
Back side	9400/1880	0.893	0.886	1.007900677	N/A	N/A	

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

Table 13: SAR of WCDMA Band II for Head and Body(original report No:SEWM2311000466RG09).

					WCE	MA Band II SAR Tes	t Record				
	Ant 3 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.(℃)	
						Head Test Data					
Right tilted	RMC	9400/1880	1:1	0.484	-0.02	15.11	16.00	1.227	0.594	22.1	
					Body v	worn Test data(Separa	ate 15mm)				
Back side	RMC	9400/1880	1:1	0.628	0.10	24.35	25.00	1.161	0.729	22.1	
					Hots	pot Test data(Separat	e 10mm)				
Top side	RMC	9538/1907.6	1:1	0.590	0.06	19.51	20.50	1.256	0.741	22.1	
Test position	Test mode		Duty Cycle	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.(℃)	
	•		•	Product	specific (Se	ensro on) 10g SAR Te	st data(Separate 0	mm)	•		
Top side	RMC	9538/1907.6	1:1	1.800	0.07	21.60	22.50	1.230	2.214	22.1	

Table 14: SAR of WCDMA Band II for Head and Body(Variant).

9.2.4 SAR Result of WCDMA Band V

				W	CDMA Ba	nd V SAR Test Rec	ord				
					Ant	0 Test Record					
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)	
Head Test Data											
Left cheek	RMC	4182/836.4	1:1	0.213	0.11	23.91	24.50	1.146	0.244	22.4	
Left tilted	RMC	4182/836.4	1:1	0.160	0.18	23.91	24.50	1.146	0.183	22.4	
Right cheek	RMC	4182/836.4	1:1	0.285	-0.01	23.91	24.50	1.146	0.326	22.4	
Right tilted	RMC	4182/836.4	1:1	0.169	0.05	23.91	24.50	1.146	0.194	22.4	
				Boo	ly worn Te	est data(Separate 15	mm)				
Front side	RMC	4182/836.4	1:1	0.232	-0.10	23.91	24.50	1.146	0.266	22.4	
Back side	RMC	4182/836.4	1:1	0.296	0.11	23.91	24.50	1.146	0.339	22.4	
				Н	otspot Tes	t data(Separate 10m	m)				
Front side	RMC	4182/836.4	1:1	0.278	0.12	23.91	24.50	1.146	0.318	22.4	
Back side	RMC	4182/836.4	1:1	0.417	0.09	23.91	24.50	1.146	0.478	22.4	
Left side	RMC	4182/836.4	1:1	0.000	0.00	23.91	24.50	1.146	0.000	22.4	
Right side	RMC	4182/836.4	1:1	0.051	-0.10	23.91	24.50	1.146	0.058	22.4	
Bottom side	RMC	4182/836.4	1:1	0.291	-0.03	23.91	24.50	1.146	0.333	22.4	

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



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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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9.2.5 SAR Result of LTE Band 2

			L	TE Bar	nd 2 SAF	R Test R	ecord				
Ant 3 Test Record											
					SAR	Power		-	011	Scaled	Linuid
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	(W/kg)	drift	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	SAR 1-g	Liquid Temp.(℃)
				_	ı-g	(dB)	` ′	Lillit(GDIII)	lactor	(W/kg)	remp.(C)
				_ `			ata(1RB)	T	1	ı	
Left cheek	20	QPSK 1_0	18900/1880	1:1	0.316	0.07	16.25	17.00	1.189	0.376	22.3
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.361	0.01	16.25	17.00	1.189	0.429	22.3
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.563	0.07	16.25	17.00	1.189	0.669	22.3
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.635	0.07	16.25	17.00	1.189	0.755	22.3
			Head	l Test (F			a(50%RB)	ı	ı	1	
Left cheek	20	QPSK 50_0	18900/1880	1:1	0.254	0.10	16.20	17.00	1.202	0.305	22.3
Left tilted	20	QPSK 50_0	18900/1880	1:1	0.283	-0.10	16.20	17.00	1.202	0.340	22.3
Right cheek	20	QPSK 50_0	18900/1880	1:1	0.451	0.01	16.20	17.00	1.202	0.542	22.3
Right tilted	20	QPSK 50_0	18900/1880	1:1	0.507	0.05	16.20	17.00	1.202	0.610	22.3
				vorn Te			15mm 1RB)		1		
Front side	20	QPSK 1_0	18900/1880	1:1	0.524	0.01	24.37	25.00	1.156	0.606	22.3
Back side	20	QPSK 1_0	18900/1880	1:1	0.764	0.01	24.37	25.00	1.156	0.883	22.3
Back side	20	QPSK 1_0	18700/1860	1:1	0.689	0.03	24.05	25.00	1.245	0.857	22.3
Back side	20	QPSK 1_0	19100/1900	1:1	0.716	-0.02	24.23	25.00	1.194	0.855	22.3
				rn Test	,		5mm 50%RB)			•	•
Front side	20	QPSK 50_0	18900/1880	1:1	0.399	-0.11	23.33	24.00	1.167	0.466	22.3
Back side	20	QPSK 50_0	18900/1880	1:1	0.594	0.03	23.33	24.00	1.167	0.693	22.3
				n Test			mm 100%RB)			•	•
Back side	20	QPSK 100_0		1:1	0.572	0.04	22.18	23.00	1.208	0.691	22.3
			Hotspo	t on Tes	st data(S	eparate	10mm 1RB)				
Front side	20	QPSK 1_0	18900/1880	1:1	0.411	-0.10	20.62	21.50	1.225	0.503	22.3
Back side	20	QPSK 1_0	18900/1880	1:1	0.561	0.10	20.62	21.50	1.225	0.687	22.3
Left side	20	QPSK 1_0	18900/1880	1:1	0.120	0.08	20.62	21.50	1.225	0.147	22.3
Right side	20	QPSK 1_0	18900/1880	1:1	0.048	0.10	20.62	21.50	1.225	0.059	22.3
Top side	20	QPSK 1_0	18900/1880	1:1	0.800	-0.04	20.62	21.50	1.225	0.980	22.3
Top side	20	QPSK 1_0	18700/1860	1:1	0.602	-0.11	20.54	21.50	1.247	0.751	22.3
Top side	20	QPSK 1_0	19100/1900	1:1	0.621	0.07	20.59	21.50	1.233	0.766	22.3
			Hotspot of	on Test	data(Se	parate 1	0mm 50%RB)				
Front side	20	QPSK 50_0	18900/1880	1:1	0.315	-0.09	20.54	21.50	1.247	0.393	22.3
Back side	20	QPSK 50_0	18900/1880	1:1	0.449	0.09	20.54	21.50	1.247	0.560	22.3
Left side	20	QPSK 50_0	18900/1880	1:1	0.089	-0.02	20.54	21.50	1.247	0.111	22.3
Right side	20	QPSK 50_0	18900/1880	1:1	0.034	0.08	20.54	21.50	1.247	0.042	22.3
Top side	20	QPSK 50_0	18900/1880	1:1	0.639	-0.01	20.54	21.50	1.247	0.797	22.3
				n Test	data(Sep	arate 10	mm 100%RB)				
Top side	20	QPSK 100_0	18900/1880	1:1	0.609		20.50	21.50	1.259	0.767	22.3
					SAR	Power				Scaled	
Test position	BW.	Test mode	Test ch./Freq.	Duty	(\M//ka)	drift	Conducted	Tune up	Scaled	SAR 10-	Liquid
				Cycle	10-g	(dB)	Power(dBm)	Limit(dBm)	factor	(M/Ism)	Temp.(℃)
		Dec el	uot apocific (Ca	nore or	100.54		dota/Constate Or	nm 1DD\		(W/kg)	
Front side	20		uct specific (Se				data(Separate 0n	,	1 222	2 272	22.2
	20	QPSK 1_0	18900/1880	1:1	1.860	-0.03	22.63	23.50	1.222	2.273	22.3
Front side	20	QPSK 1_0	18700/1860	1:1	1.880	-0.02	22.54	23.50	1.247	2.345	22.3
Front side	20	QPSK 1_0	19100/1900	1:1	1.810	-0.10	22.57	23.50	1.239	2.242	22.3
Back side	20	QPSK 1_0	18900/1880	1:1	1.490	-0.03	22.63	23.50	1.222	1.820	22.3
Top side	20	QPSK 1_0	18900/1880	1:1	1.890	-0.03	22.63	23.50	1.222	2.309	22.3
Top side	20	QPSK 1_0	18700/1860	1:1	2.040	0.01	22.54	23.50	1.247	2.545	22.3
Top side	20	QPSK 1_0	19100/1900	1:1	2.180	-0.01	22.57	23.50	1.239	2.701	22.3



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		•					•				
Top side - Repeat SAR	20	QPSK 1_0	19100/1900	1:1	2.060	0.05	22.57	23.50	1.239	2.552	22.3
		Product	t specific (Sens	ro on) 1	10g SAR	Test da	ta (Separate 0mr	m 50%RB)			
Front side	20	QPSK 50_0	18900/1880	1:1	1.630	0.01	22.59	23.50	1.233	2.010	22.3
Front side	20	QPSK 50_0	18700/1860	1:1	1.460	0.10	22.56	23.50	1.242	1.813	22.3
Front side	20	QPSK 50_0	19100/1900	1:1	1.560	-0.02	22.52	23.50	1.253	1.955	22.3
Back side	20	QPSK 50_0	18900/1880	1:1	1.440	0.11	22.59	23.50	1.233	1.776	22.3
Top side	20	QPSK 50_0	18900/1880	1:1	1.810	0.00	22.59	23.50	1.233	2.232	22.3
Top side	20	QPSK 50_0	18700/1860	1:1	1.630	0.09	22.56	23.50	1.242	2.024	22.3
Top side	20	QPSK 50_0	19100/1900	1:1	1.800	0.02	22.52	23.50	1.253	2.256	22.3
·			specific (Sensr	o on) 1	0g SAR	Test data	a (Separate 0mn				
Front side	20	QPSK 100_0		1:1	1.340	-0.10	22.53	23.50	1.250	1.675	22.3
Top side		QPSK 100_0		1:1	1.750	0.03	22.53	23.50	1.250	2.188	22.3
'				pecific (Sensro o	off) 10a s	SAR Test data		1		
Front side-5mm	20	QPSK 1_0	18700/1860	1:1	1.080	0.01	24.05	25.00	1.245	1.344	22.3
Back side-18mm	20	QPSK 1_0	18900/1880	1:1	0.274	0.02	24.37	25.00	1.156	0.317	22.3
Top side-17mm	20	QPSK 1_0	19100/1900	1:1	0.422	0.01	24.23	25.00	1.194	0.504	22.3
Top side-1711iiii	_20	QI SIC I_0			est Reco		L	25.00	1.134	0.304	22.0
					SAR	Power			1	Scaled	
Test position	BW.	Test mode	Test ch./Freq.	Duty	(W/kg)	drift	Conducted	Tune up	Scaled	CAD 4 au	Liquid
root pooliion		1001111000	1001 011111 1041	Cycle	1-g	(dB)	Power(dBm)	Limit(dBm)	factor	(W/kg)	Temp.(℃)
			Hea	d (Rec	eiver on)		ata(1RB)			,	
Left cheek	20	QPSK 1_0	18900/1880	1:1	0.481	0.01	22.11	23.00	1.227	0.590	22.3
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.219	0.03	22.11	23.00	1.227	0.269	22.3
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.807	0.17	22.11	23.00	1.227	0.991	22.3
Right cheek	20	QPSK 1_0	18700/1860	1:1	0.640	0.08	22.06	23.00	1.242	0.795	22.3
Right cheek	20	QPSK 1_0	19100/1900	1:1	0.772	0.04	22.03	23.00	1.250	0.965	22.3
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.223	0.04	22.11	23.00	1.227	0.274	22.3
rtigrit tilled	20	QI OIT I_0	Head				a(50%RB)	25.00	1.221	0.214	22.0
Left cheek	20	QPSK 50_0	18900/1880	1:1	0.339	-0.05	22.05	23.00	1.245	0.422	22.3
Left tilted	20	QPSK 50_0	18900/1880	1:1	0.163	0.04	22.05	23.00	1.245	0.422	22.3
Right cheek	20	QPSK 50_0	18900/1880	1:1	0.651	0.04	22.05	23.00	1.245	0.203	22.3
Right cheek	20	QPSK 50_0	18700/1860	1:1	0.541	0.00	22.03	23.00	1.243	0.680	22.3
	20		19100/1900			-0.04					
Right cheek		QPSK 50_0		1:1	0.636		22.03	23.00	1.250	0.795	22.3
Right tilted	20	QPSK 50_0	18900/1880	1:1	0.172	-0.04	22.05	23.00	1.245	0.214	22.3
Di Li L	-	0001/ 400 0					(100%RB)	00.00	4.050	0.000	00.0
Right cheek	20	QPSK 100_0		1:1	0.638	0.02	22.02	23.00	1.253	0.800	22.3
		0.0014.4.0					15mm 1RB)				
Front side	20	QPSK 1_0	18900/1880	1:1	0.214	0.01	23.90	25.00	1.288	0.276	22.3
Back side	20	QPSK 1_0	18900/1880	1:1	0.475	-0.02	23.90	25.00	1.288	0.612	22.3
							5mm 50%RB)				
Front side		QPSK 50_0	18900/1880	1:1	0.162	0.03	22.69	24.00	1.352	0.219	22.3
Back side	20	QPSK 50_0		1:1	0.361		22.69	24.00	1.352	0.488	22.3
				1			0mm 1RB)				
Front side	20	QPSK 1_0	18900/1880	1:1	0.360	0.01	23.90	25.00	1.288	0.464	22.3
Back side	20	QPSK 1_0	18900/1880	1:1	0.858	-0.17	23.90	25.00	1.288	1.105	22.3
Back side	20	QPSK 1_0	18700/1860	1:1	0.801	-0.16	23.90	25.00	1.288	1.032	22.3
Back side	20	QPSK 1_0	19100/1900	1:1	0.832	0.09	23.90	25.00	1.288	1.072	22.3
Back side - Repeat	20	QPSK 1_0	18900/1880	1:1	0.841	-0.02	23.90	25.00	1.288	1.083	22.3
Left side	20	QPSK 1_0	18900/1880	1:1	0.698	0.17	23.90	25.00	1.288	0.899	22.3
Left side	20	QPSK 1_0	18700/1860	1:1	0.652	0.06	23.90	25.00	1.288	0.840	22.3
Left side	20	QPSK 1_0	19100/1900	1:1	0.679	-0.11	23.90	25.00	1.288	0.875	22.3
Top side	20	QPSK 1_0	18900/1880	1:1	0.253	0.18	23.90	25.00	1.288	0.326	22.3
				Test d	ata(Sepa		nm 50%RB)		•	•	
Front side	20	QPSK 50_0	18900/1880	1:1	0.269	-0.12	22.69	24.00	1.352	0.364	22.3
Back side		QPSK 50_0	18900/1880	1:1	0.692	-0.06	22.69	24.00	1.352	0.936	22.3
200.1 0100	ت		.0000/1000		0.002	0.00				5.500	0



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Back side	20	QPSK 50_0	18700/1860	1:1	0.677	0.05	22.69	24.00	1.352	0.915	22.3
Back side	20	QPSK 50_0	19100/1900	1:1	0.681	0.04	22.69	24.00	1.352	0.921	22.3
Left side	20	QPSK 50_0	18900/1880	1:1	0.491	-0.11	22.69	24.00	1.352	0.664	22.3
Top side	20	QPSK 50_0	18900/1880	1:1	0.176	0.05	22.69	24.00	1.352	0.238	22.3
Hotspot Test data(Separate 10mm 100%RB)											
Back side	20	QPSK 1_0	18900/1880	1:1	0.709	0.04	23.90	24.00	1.023	0.726	22.3

Test Position	Channel/ Frequency	Managered CAD (4g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Test Position	(MHz)	Measured SAR (1g)	SAR (1g)	Ratio	SAR (1g)	SAR (1g)
Back side	18900/1880	0.858	0.841	1.020214031	N/A	N/A

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

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

Test Position	Channel/ Frequency	Magazirad CAD (40a)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
lest Position	(MHz)	Measured SAR (10g)	SAR (10g)	Ratio	SAR (10g)	SAR (10g)
Top side	19100/1900	2.18	2.06	1.058252427	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 2.0 W/kg, the measurement was repeated once.

Table 16: SAR of LTE Band 2 for Head and Body(original report No:SEWM2311000466RG09).

	LTE Band 2 SAR Test Record											
						Ant 3 Tes						
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.(℃)	
					Head (R	eceiver or	n) Test Data(1RB)					
Right tilted 20 QPSK 1_0 18900/1880 1:1 0.484 -0.02 15.11 16.00 1.227 0.594 22.1												
	Body worn Test data(Separate 15mm 1RB)											
Back side	20	QPSK 1_0	18900/1880	1:1	0.628	0.10	24.35	25.00	1.161	0.729	22.1	
				Но	tspot on T	est data(Separate 10mm 1R	B)				
Top side	20	QPSK 1_0	18900/1880	1:1	0.590	0.06	19.51	20.50	1.256	0.741	22.1	
Test position BW. Test mode Test ch./Freq. Duty Cycle (W/kg) 10-g (dB) Conducted Power(dBm) Conducted Factor (W/kg) Cycle (W/kg) (W/kg) Cycle (W/kg) Test mode Test ch./Freq. (W/kg) Test ch./												
	Product specific (Sensro on) 10g SAR Test data(Separate 0mm 1RB)											
Top side	20	QPSK 1_0	19100/1900	1:1	1.800	0.07	21.60	22.50	1.230	2.214	22.1	

Test Position	Channel/ Frequency	Managered CAD (10m)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
lest Position	(MHz)	Measured SAR (10g)	SAR (10g)	Ratio	SAR (10g)	SAR (10g)
Top side	19100/1900	2.11	2.08	1.01442308	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 2.0 W/kg, the measurement was repeated once.

Table 17: SAR of LTE Band 2 for Head and Body(Variant).



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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.

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 ≥ 3.63 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 ≥ 3.75 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 < 2.0 W/kg

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 ≥ 3.63 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 ≥ 3.75 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 < 2.0 W/kg



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9.2.6 SAR Result of LTE Band 12

	LTE Band 12 SAR Test Record											
					An	t 0 Test R	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.(℃)	
					Hea	d Test Da	ta(1RB)					
Left cheek	10	QPSK 1_0	23095/707.5	1:1	0.107	-0.18	24.27	25.00	1.183	0.127	22.1	
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.064	-0.02	24.27	25.00	1.183	0.076	22.1	
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.219	0.08	24.27	25.00	1.183	0.259	22.1	
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.075	-0.09	24.27	25.00	1.183	0.089	22.1	
					Head	Test Data	(50%RB)					
Left cheek 10 QPSK 25_0 23095/707.5 1:1 0.086 0.14 23.33 24.00 1.167 0.100 22.1												
Left tilted		QPSK 25_0		1:1	0.054	0.04	23.33	24.00	1.167	0.063	22.1	
Right cheek	10	QPSK 25_0	23095/707.5	1:1	0.104	-0.08	23.33	24.00	1.167	0.121	22.1	
Right tilted	10	QPSK 25_0	23095/707.5	1:1	0.112	-0.18	23.33	24.00	1.167	0.131	22.1	
				Body	worn Tes	t data(Se	parate 15mm 1RB)			,		
Front side	10	QPSK 1_0	23095/707.5	1:1	0.246	-0.15	24.27	25.00	1.183	0.291	22.1	
Back side	10	QPSK 1_0	23095/707.5	1:1	0.341	-0.02	24.27	25.00	1.183	0.403	22.1	
				Body w	orn Test	data(Sepa	arate 15mm 50%R	B)				
Front side	10	QPSK 25_0	23095/707.5	1:1	0.201	-0.11	23.33	24.00	1.167	0.235	22.1	
Back side	10	QPSK 25_0	23095/707.5	1:1	0.298	-0.02	23.33	24.00	1.167	0.348	22.1	
				Hots	pot Test	data(Sepa	arate 10mm 1RB)					
Front side	10	QPSK 1_0	23095/707.5	1:1	0.244	0.03	24.27	25.00	1.183	0.289	22.1	
Back side	10	QPSK 1_0	23095/707.5	1:1	0.373	-0.13	24.27	25.00	1.183	0.441	22.1	
Left side	10	QPSK 1_0	23095/707.5	1:1	0.000	0.00	24.27	25.00	1.183	0.000	22.1	
Right side	10	QPSK 1_0	23095/707.5	1:1	0.000	0.00	24.27	25.00	1.183	0.000	22.1	
Bottom side	10	QPSK 1_0	23095/707.5	1:1	0.262	0.12	24.27	25.00	1.183	0.310	22.1	
Hotspot Test data(Separate 10mm 50%RB)												
Front side	10	QPSK 25_0	23095/707.5	1:1	0.197	-0.17	23.33	24.00	1.167	0.230	22.1	
Back side			23095/707.5	1:1	0.300	-0.08	23.33	24.00	1.167	0.350	22.1	
Left side	10	QPSK 25_0	23095/707.5	1:1	0.000	0.00	23.33	24.00	1.167	0.000	22.1	
Right side	10	QPSK 25_0	23095/707.5	1:1	0.000	0.00	23.33	24.00	1.167	0.000	22.1	
Bottom side	10	QPSK 25_0	23095/707.5	1:1	0.202	-0.09	23.33	24.00	1.167	0.236	22.1	

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



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9.2.7 SAR Result of LTE Band 14

	LTE Band 14 SAR Test Record										
					An	t 0 Test F	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.(℃)
					Hea	d Test Da	ata(1RB)				
Left cheek	10	QPSK 1_0	23330/793	1:1	0.116	0.19	24.36	25.00	1.159	0.134	22.1
Left tilted	10	QPSK 1_0	23330/793	1:1	0.070	-0.09	24.36	25.00	1.159	0.081	22.1
Right cheek	10	QPSK 1_0	23330/793	1:1	0.238	0.08	24.36	25.00	1.159	0.276	22.1
Right tilted	10	QPSK 1_0	23330/793	1:1	0.085	0.03	24.36	25.00	1.159	0.098	22.1
					Head	Test Data	a(50%RB)				
Left cheek	10	QPSK 25_0	23330/793	1:1	0.095	-0.13	23.40	24.00	1.148	0.109	22.1
Left tilted	10	QPSK 25_0	23330/793	1:1	0.057	-0.04	23.40	24.00	1.148	0.065	22.1
Right cheek	10	QPSK 25_0	23330/793	1:1	0.134	-0.11	23.40	24.00	1.148	0.154	22.1
Right tilted	10	QPSK 25_0	23330/793	1:1	0.107	-0.02	23.40	24.00	1.148	0.123	22.1
				Body	worn Tes	st data(Se	parate 15mm 1RB				
Front side	10	QPSK 1_0	23330/793	1:1	0.231	0.05	24.36	25.00	1.159	0.268	22.1
Back side	10	QPSK 1_0	23330/793	1:1	0.308	0.06	24.36	25.00	1.159	0.357	22.1
				Body v	vorn Test	data(Sep	arate 15mm 50%R	B)			
Front side		QPSK 25_0	23330/793	1:1	0.181	0.04	23.40	24.00	1.148	0.208	22.1
Back side	10	QPSK 25_0	23330/793	1:1	0.256	-0.09	23.40	24.00	1.148	0.294	22.1
				Hots	spot Test	data(Sep	arate 10mm 1RB)			1	
Front side	10	QPSK 1_0	23330/793	1:1	0.244	-0.06	24.36	25.00	1.159	0.283	22.1
Back side	10	QPSK 1_0	23330/793	1:1	0.366	0.07	24.36	25.00	1.159	0.424	22.1
Left side	10	QPSK 1_0	23330/793	1:1	0.000	0.00	24.36	25.00	1.159	0.000	22.1
Right side	10	QPSK 1_0	23330/793	1:1	0.000	0.00	24.36	25.00	1.159	0.000	22.1
Bottom side	10	QPSK 1_0	23330/793	1:1	0.108	0.15	24.36	25.00	1.159	0.125	22.1
Hotspot Test data(Separate 10mm 50%RB)											
Front side		QPSK 25_0	23330/793	1:1	0.202	0.14	23.40	24.00	1.148	0.232	22.1
Back side		QPSK 25_0	23330/793	1:1	0.291	-0.18	23.40	24.00	1.148	0.334	22.1
Left side		QPSK 25_0	23330/793	1:1	0.000	0.00	23.40	24.00	1.148	0.000	22.1
Right side		QPSK 25_0	23330/793	1:1	0.000	0.00	23.40	24.00	1.148	0.000	22.1
Bottom side	10	QPSK 25_0	23330/793	1:1	0.150	-0.08	23.40	24.00	1.148	0.172	22.1

Table 19: SAR of LTE Band 14 for Head and Body.



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9.2.8 SAR Result of LTE Band 26

LTE Band 26 SAR Test Record											
					Ant 0	Test Re	cord				
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.(℃)
Head Test Data(1RB)											
Left cheek	15	QPSK 1_0	26865/831.5	1:1	0.207	-0.12	23.96	24.50	1.132	0.234	22.3
Left tilted	15	QPSK 1_0	26865/831.5	1:1	0.135	0.08	23.96	24.50	1.132	0.153	22.3
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.259	0.05	23.96	24.50	1.132	0.293	22.3
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.154	0.18	23.96	24.50	1.132	0.174	22.3
					Head Te	est Data(5	50%RB)				
Left cheek											
Left tilted	15	QPSK 36_0	26865/831.5	1:1	0.127	0.16	22.92	23.50	1.143	0.145	22.3
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.236	0.19	22.92	23.50	1.143	0.270	22.3
Right tilted	15	QPSK 36_0	26865/831.5	1:1	0.148	-0.06	22.92	23.50	1.143	0.169	22.3
	,			Body w	orn Test	data(Sepa	arate 15mm 1RB)			•	
Front side	15	QPSK 1_0	26865/831.5	1:1	0.268	0.04	23.96	24.50	1.132	0.303	22.3
Back side	15	QPSK 1_0	26865/831.5	1:1	0.346	0.07	23.96	24.50	1.132	0.392	22.3
			В	ody wor	n Test da	ta(Separa	ate 15mm 50%RB)			
Front side	15	QPSK 36_0	26865/831.5	1:1	0.220	0.10	22.92	23.50	1.143	0.251	22.3
Back side	15	QPSK 36_0	26865/831.5	1:1	0.293	-0.19	22.92	23.50	1.143	0.335	22.3
	,			Hotspo	ot Test da	ta(Separa	ate 10mm 1RB)			•	
Front side	15	QPSK 1_0	26865/831.5	1:1	0.272	0.16	23.96	24.50	1.132	0.308	22.3
Back side	15	QPSK 1_0	26865/831.5	1:1	0.434	0.12	23.96	24.50	1.132	0.491	22.3
Left side	15	QPSK 1_0	26865/831.5	1:1	0.000	0.00	23.96	24.50	1.132	0.000	22.3
Right side	15	QPSK 1_0	26865/831.5	1:1	0.000	0.00	23.96	24.50	1.132	0.000	22.3
Bottom side	15	QPSK 1_0	26865/831.5	1:1	0.292	-0.09	23.96	24.50	1.132	0.331	22.3
Hotspot Test data(Separate 10mm 50%RB)											
Front side	15	QPSK 36_0	26865/831.5	1:1	0.230	0.10	22.92	23.50	1.143	0.263	22.3
Back side	15	QPSK 36_0	26865/831.5	1:1	0.364	-0.10	22.92	23.50	1.143	0.416	22.3
Left side	15	QPSK 36_0	26865/831.5	1:1	0.000	0.00	22.92	23.50	1.143	0.000	22.3
Right side	15	QPSK 36_0	26865/831.5	1:1	0.000	0.00	22.92	23.50	1.143	0.000	22.3
Bottom side	15	QPSK 36_0	26865/831.5	1:1	0.210	0.07	22.92	23.50	1.143	0.240	22.3

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



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9.2.9 SAR Result of LTE Band 30

LTE Band 30 SAR Test Record											
				An	t 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.(℃)
				ad (Rece	eiver on)					1	
Left cheek	10	QPSK 1_0	27710/2310	1:1	0.672	0.05	20.22	21.00	1.197	0.804	22.4
Left tilted	10	QPSK 1_0	27710/2310	1:1	0.812	-0.17	20.22	21.00	1.197	0.972	22.4
Right cheek	10	QPSK 1_0	27710/2310	1:1	0.843	0.14	20.22	21.00	1.197	1.009	22.4
Right tilted	10	QPSK 1_0	27710/2310	1:1	0.936	-0.11	20.22	21.00	1.197	1.120	22.4
		1					a(50%RB)		1	1	
Left cheek		QPSK 25_0		1:1	0.548	-0.18	20.14	21.00	1.219	0.668	22.4
Left tilted		QPSK 25_0	27710/2310	1:1	0.662	0.13	20.14	21.00	1.219	0.807	22.4
Right cheek		QPSK 25_0		1:1	0.677	-0.15	20.14	21.00	1.219	0.825	22.4
Right tilted	10	QPSK 25_0		1:1	0.755	-0.09	20.14	21.00	1.219	0.920	22.4
		0.001/.00					(100%RB)	24.00			
Left cheek		QPSK 50_0		1:1	0.522	0.19	20.05	21.00	1.245	0.650	22.4
Left tilted		QPSK 50_0	27710/2310	1:1	0.626	-0.14	20.05	21.00	1.245	0.779	22.4
Right cheek		QPSK 50_0		1:1	0.652	0.12	20.05	21.00	1.245	0.811	22.4
Right tilted	10	QPSK 50_0		1:1	0.755	-0.11	20.05	21.00	1.245	0.940	22.4
-	140	0.0014.4.0					15mm 1RB)	0.4.50	4.074	0.005	00.4
Front side	10	QPSK 1_0	27710/2310	1:1	0.208	0.02	23.45	24.50	1.274	0.265	22.4
Back side	10	QPSK 1_0	27710/2310	1:1	0.548	0.05	23.45	24.50	1.274	0.698	22.4
Front oids	10	ODCK 25 0		1:1			5mm 50%RB)	22.50	1 207	0.222	22.4
Front side Back side		QPSK 25_0 QPSK 25_0		1:1	0.179	0.02	22.37 22.37	23.50 23.50	1.297 1.297	0.232 0.573	22.4 22.4
Dack side	10	QF3K 25_0					10mm 1RB)	23.30	1.297	0.573	22.4
Front side	10	QPSK 1_0	27710/2310	1:1	0.349	0.07	22.61	23.50	1.227	0.428	22.4
Back side	10	QPSK 1_0	27710/2310	1:1	0.940	-0.03	22.61	23.50	1.227	1.154	22.4
Back side - Repeat SAR		QPSK 1_0	27710/2310	1:1	0.940	0.09	22.61	23.50	1.227	1.134	22.4
Left side	10	QPSK 1_0	27710/2310	1:1	0.383	0.03	22.61	23.50	1.227	0.470	22.4
Top side	10	QPSK 1_0	27710/2310	1:1	0.334	0.03	22.61	23.50	1.227	0.410	22.4
Top side	10	QI OIT I_O					0mm 50%RB)	25.50	1.221	0.410	22.7
Front side	10	QPSK 25_0		1:1	0.269	0.02	22.54	23.50	1.247	0.336	22.4
Back side		QPSK 25_0	27710/2310	1:1	0.789	-0.01	22.54	23.50	1.247	0.984	22.4
Left side		QPSK 25_0	27710/2310	1:1	0.323	-0.08	22.54	23.50	1.247	0.403	22.4
Top side		QPSK 25 0		1:1	0.415	0.04	22.54	23.50	1.247	0.518	22.4
		_		n Test o			mm 100%RB)				
Back side	10	QPSK 50_0	27710/2310	1:1	0.737	0.09	22.52	23.50	1.253	0.924	22.4
Test position			Test ch./Freq.	Duty Cycle	(W/kg)	Power drift (dB)	Conducted Power(dBm)	Tune up	Scaled factor	Scaled SAR 10- g (W/kg)	Liquid Temp.(℃)
		Produ	uct specific (Se	nsro on	10g SA	R Test c	ata(Separate 0m	nm 1RB)			
Back side	10	QPSK 1_0	27710/2310	1:1	2.040	0.10	22.16	23.00	1.213	2.475	22.4
		Produc	t specific (Sens	ro on) 1	0g SAR	Test dat	a (Separate 0mr	n 50%RB)			
Back side	10		27710/2310	1:1	1.680	0.04	22.16	23.00	1.213	2.038	22.4
				o on) 1	0g SAR	Test data	a (Separate 0mm	100%RB)			
Back side	10	QPSK 50_0	27710/2310	1:1	1.720	-0.02	22.16	23.00	1.213	2.087	22.4
				pecific (Sensro o		SAR Test data				
Back side-18mm	10	QPSK 1_0	27710/2310	1:1	0.185	-0.11	23.45	24.50	1.274	0.236	22.4
				Ant 2 Te	est Reco	ord for E	NDC				



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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.(℃)
			Hea	ad (Rec	eiver on)	Test Da	ta(1RB)				
Left cheek	10	QPSK 1_0	27710/2310	1:1	0.470	0.09	19.21	20.00	1.199	0.564	22.4
Left tilted	10	QPSK 1_0	27710/2310	1:1	0.169	-0.06	19.21	20.00	1.199	0.203	22.4
Right cheek	10	QPSK 1_0	27710/2310	1:1	0.845	-0.14	19.21	20.00	1.199	1.014	22.4
Right tilted	10	QPSK 1_0	27710/2310	1:1	0.243	0.03	19.21	20.00	1.199	0.291	22.4
			Head	Test (F			a(50%RB)				
Left cheek		QPSK 25_0		1:1	0.376	-0.10	19.08	20.00	1.236	0.465	22.4
Left tilted	1	QPSK 25_0	27710/2310	1:1	0.132	-0.03	19.08	20.00	1.236	0.163	22.4
Right cheek		QPSK 25_0		1:1	0.652	0.10	19.08	20.00	1.236	0.806	22.4
Right tilted	10	QPSK 25_0		1:1	0.196	-0.15	19.08	20.00	1.236	0.242	22.4
		ı					(100%RB)		ı	1	1
Right cheek	10	QPSK 50_0		1:1	0.642	0.02	19.05	20.00	1.245	0.799	22.4
	1	T = = = : :					15mm 1RB)		1	1	
Front side	10	QPSK 1_0	27710/2310	1:1	0.354	-0.05	23.77	24.50	1.183	0.419	22.4
Back side	10	QPSK 1_0	27710/2310	1:1	0.780	0.02	23.77	24.50	1.183	0.923	22.4
	1	T=====					5mm 50%RB)			1	
Front side		QPSK 25_0		1:1	0.166	0.01	22.64	23.50	1.219	0.202	22.4
Back side	10	QPSK 25_0		1:1	0.371	0.06	22.64	23.50	1.219	0.452	22.4
	1	I = = = : :					mm 100%RB)		1	1	
Back side	10	QPSK 50_0	27710/2310	1:1	0.416	-0.11	22.48	23.50	1.265	0.526	22.4
	1	T = = =					Omm 1RB)				
Front side	10	QPSK 1_0	27710/2310	1:1	0.293	0.03	20.21	21.00	1.199	0.351	22.4
Back side	10	QPSK 1_0	27710/2310	1:1	0.707	-0.07	20.21	21.00	1.199	0.848	22.4
Left side	10	QPSK 1_0	27710/2310	1:1	0.351	0.07	20.21	21.00	1.199	0.421	22.4
Top side	10	QPSK 1_0	27710/2310	1:1	0.082	0.05	20.21	21.00	1.199	0.098	22.4
							nm 50%RB)		1	l	T
Front side		QPSK 25_0		1:1	0.142	0.04	20.06	21.00	1.242	0.176	22.4
Back side		QPSK 25_0		1:1	0.431	0.07	20.06	21.00	1.242	0.535	22.4
Left side		QPSK 25_0		1:1	0.158	0.10	20.06	21.00	1.242	0.196	22.4
Top side	10	QPSK 25_0		1:1	0.255	-0.09	20.06	21.00	1.242	0.317	22.4
							m 100%RB)		1		T
Back side	10	QPSK 50_0	27710/2310	1:1	0.441	0.01	20.09	21.00	1.233	0.544	22.4
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	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.(℃)
			Product specifi	ic 10g S	SAR Test	data (S	eparate 0mm 1R	B)			
Back side	10	QPSK 1_0	27710/2310	1:1	2.300	0.04	23.77	24.50	1.183	2.721	22.4
Back side - Repeat SAR	10	QPSK 1_0	27710/2310	1:1	2.190	-0.12	23.77	24.50	1.183	2.591	22.4
		F	Product specific	10g SA	R Test o	data (Sep	parate 0mm 50%	RB)			
Back side	10	QPSK 25_0	27710/2310	1:1	1.890	0.03	22.64	23.50	1.219	2.304	22.4
		P	roduct specific	10g SA	R Test c	lata (Sep	arate 0mm 100%	6RB)			
Back side	10	QPSK 50_0	27710/2310	1:1	1.950	-0.01	22.48	23.50	1.265	2.466	22.4

Test Position	Channel/ Frequency	Management CAD (4 m)	1st Repeated	Datia	2 nd Repeated	3 rd Repeated
rest Position	(MHz)	Measured SAR (1g)	SAR (1g)	Ratio	SAR (1g)	SAR (1g)
Back side	27710/2310	0.940	0.921	1.02062975	N/A	N/A

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

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



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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.



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Test Position	Channel/ Frequency	Maggurad SAR (10g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Test Position	(MHz)	Measured SAR (10g)	SAR (10g)	Kalio	SAR (10g)	SAR (10g)
Back side	27710/2310	2.30	2.19	1.050228311	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 2.0 W/kg, the measurement was repeated once.

Table 21: SAR of LTE Band 30 for Head and Body(original report No:SEWM2311000466RG09).

	LTE Band 30 SAR Test Record													
						Ant 3 Tes	t 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.(℃)			
					Head (Re	eceiver or	n) Test Data(1RB)							
Right tilted	Head (Receiver on) Test Data(1RB) Right tilted 10 QPSK 1_0 27710/2310 1:1 1.000 0.08 20.22 21.00 1.197 1.197 21.9													
				Во	dy worn 1	Test data(Separate 15mm 1R	3)						
Back side	10	QPSK 1_0	27710/2310	1:1	0.465	0.19	23.45	24.50	1.274	0.592	21.9			
				Ho	tspot on T	est data(Separate 10mm 1RI	3)						
Back side	10	QPSK 1_0	27710/2310	1:1	0.948	0.06	22.61	23.50	1.227	1.164	21.9			
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	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.(℃)			
			Product s	pecific	(Sensro	on) 10g S.	AR Test data(Separ	ate 0mm 1RB)						
Back side	10	QPSK 1_0	27710/2310	1:1	1.900	0.09	22.16	23.00	1.213	2.305	21.9			

Tost Position	Position Channel/ Frequency	Magazirad SAD (1a)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Test Position	(MHz)	Measured SAR (1g)	SAR (1g)	Ratio	SAR (1g)	SAR (1g)
Right tilted	27710/2310	1.000	0.986	1.014198783	N/A	N/A

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



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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 ≥ 3.63 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 ≥ 3.75 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 < 2.0 W/kg

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

Table 22: SAR of LTE Band 30 for Head and Body(Variant).



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9.2.10 SAR Result of LTE Band 48

	LTE Band 48 SAR Test Record												
					Ant 4	Test Re	cord						
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.(℃)		
					Head ⁻	Test Data	(1RB)			,			
Left cheek	20	QPSK 1_0	56150/3641	1:1.58	0.587	-0.08	20.35	21.00	1.161	0.682	22.1		
Left tilted	20	QPSK 1_0	56150/3641	1:1.58	0.556	0.13	20.35	21.00	1.161	0.646	22.1		
Right cheek	20	QPSK 1_0	56150/3641	1:1.58	0.381	-0.14	20.35	21.00	1.161	0.443	22.1		
Right tilted	20	QPSK 1_0	56150/3641	1:1.58	0.374	0.09	20.35	21.00	1.161	0.434	22.1		
					Head Te	est Data(5	50%RB)						
Left cheek 20 QPSK 50_0 56150/3641 1:1.58 0.470 -0.05 20.22 21.00 1.197 0.562 22.													
Left tilted	20	QPSK 50_0	56150/3641	1:1.58	0.439	0.15	20.22	21.00	1.197	0.525	22.1		
Right cheek	20	QPSK 50_0	56150/3641	1:1.58	0.312	0.01	20.22	21.00	1.197	0.373	22.1		
Right tilted	20	QPSK 50_0	56150/3641	1:1.58	0.306	-0.07	20.22	21.00	1.197	0.366	22.1		
				Body w	orn Test o	data(Sepa	arate 15mm 1RB)						
Front side	20	QPSK 1_0	56150/3641	1:1.58	0.153	-0.12	23.42	24.50	1.282	0.196	22.1		
Back side	20	QPSK 1_0	56150/3641	1:1.58	0.234	0.05	23.42	24.50	1.282	0.300	22.1		
			В	ody wor	n Test da	ta(Separ	ate 15mm 50%RB)					
Front side	20	QPSK 50_0	56150/3641	1:1.58	0.099	0.04	22.46	23.50	1.271	0.126	22.1		
Back side	20	QPSK 50_0	56150/3641	1:1.58	0.152	0.07	22.46	23.50	1.271	0.193	22.1		
				Hotspo	t Test da	ta(Separa	ate 10mm 1RB)						
Front side	20	QPSK 1_0	56150/3641	1:1.58	0.281	0.16	23.42	24.50	1.282	0.360	22.1		
Back side	20	QPSK 1_0	56150/3641	1:1.58	0.568	0.06	23.42	24.50	1.282	0.728	22.1		
Left side	20	QPSK 1_0	56150/3641	1:1.58	0.134	0.04	23.42	24.50	1.282	0.172	22.1		
Right side	20	QPSK 1_0	56150/3641	1:1.58	0.152	0.12	23.42	24.50	1.282	0.195	22.1		
Top side	20	QPSK 1_0	56150/3641	1:1.58	0.435	-0.03	23.42	24.50	1.282	0.558	22.1		
				Hotspot	Test data	(Separat	e 10mm 50%RB)						
Front side	20	QPSK 50_0	56150/3641	1:1.58	0.234	-0.07	22.46	23.50	1.271	0.297	22.1		
Back side	20	QPSK 50_0	56150/3641	1:1.58	0.426	0.01	22.46	23.50	1.271	0.541	22.1		
Left side	20	QPSK 50_0	56150/3641	1:1.58	0.119	0.19	22.46	23.50	1.271	0.151	22.1		
Right side	20	QPSK 50_0	56150/3641	1:1.58	0.116	-0.11	22.46	23.50	1.271	0.147	22.1		
Top side	20	QPSK 50_0	56150/3641	1:1.58	0.335	0.03	22.46	23.50	1.271	0.426	22.1		

Table 23: SAR of LTE Band 48 for Head and Body.



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9.2.11 SAR Result of LTE Band 66

LTE Band 66 SAR Test Record Ant 3 Test Record													
				An							1		
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		Liquid Temp.(℃		
				d (Rece	eiver on) Te	est Data(1							
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.441	0.12	17.38	18.00	1.153	0.509	22.2		
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.558	-0.01	17.38	18.00	1.153	0.644	22.2		
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.796	0.06	17.38	18.00	1.153	0.918	22.2		
Right cheek	20	QPSK 1_0	132072/1720	1:1	0.765	0.02	17.33	18.00	1.167	0.893	22.2		
Right cheek	20	QPSK 1_0	132572/1770	1:1	0.831	0.07	17.29	18.00	1.178	0.979	22.2		
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.834	-0.07	17.38	18.00	1.153	0.962	22.2		
Right tilted	20	QPSK 1_0	132072/1720	1:1	0.773	-0.04	17.33	18.00	1.167	0.902	22.2		
Right tilted	20	QPSK 1_0	132572/1770	1:1	0.908	0.02	17.29	18.00	1.178	1.069	22.2		
Right tilted - Repeat	20	QPSK 1_0	132572/1770	1:1	0.892	-0.11	17.29	18.00	1.178	1.050	22.2		
			Head	Test (R	eceiver on) Data(50	%RB)						
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.372	0.04	17.24	18.00	1.191	0.443	22.2		
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.454	-0.07	17.24	18.00	1.191	0.541	22.2		
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.677	0.11	17.24	18.00	1.191	0.806	22.2		
Right cheek	20		132072/1720	1:1	0.613	-0.19	17.16	18.00	1.213	0.744	22.2		
Right cheek	20	QPSK 50_0	132572/1770	1:1	0.719	0.09	17.17	18.00	1.211	0.870	22.2		
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.698	-0.08	17.24	18.00	1.191	0.831	22.2		
Right tilted	20	QPSK 50_0	132072/1720	1:1	0.632	-0.05	17.16	18.00	1.213	0.767	22.2		
Right tilted	20	QPSK 50_0	132572/1770	1:1	0.778	0.02	17.17	18.00	1.211	0.942	22.2		
			Head 7	Γest (R	eceiver on)	Data(100)%RB)						
Right cheek	20	QPSK 100_0	132322/1745	1:1	0.640	0.01	17.21	18.00	1.199	0.768	22.2		
Right tilted	20	QPSK 100_0	132322/1745	1:1	0.688	0.02	17.21	18.00	1.199	0.825	22.2		
			Body wo	rn Tes	t data(Sepa	arate 15m	ım 1RB)						
Front side	20	QPSK 1_0	132322/1745	1:1	0.341	0.01	23.96	24.50	1.132	0.386	22.2		
Back side	20	QPSK 1_0	132322/1745	1:1	0.474	0.02	23.96	24.50	1.132	0.537	22.2		
			Body wor	n Test o	data(Separ	ate 15mm	n 50%RB)						
Front side	20	QPSK 50_0	132322/1745	1:1	0.277	-0.02	22.77	23.50	1.183	0.328	22.2		
Back side	20	QPSK 50_0	132322/1745	1:1	0.398	0.05	22.77	23.50	1.183	0.471	22.2		
			Hotspot	on Tes	t data(Sepa	arate 10m	nm 1RB)						
Front side	20	QPSK 1_0	132322/1745	1:1	0.500	0.03	22.32	23.00	1.169	0.585	22.2		
Back side	20	QPSK 1_0	132322/1745	1:1	0.731	-0.18	22.32	23.00	1.169	0.855	22.2		
Back side	20	QPSK 1_0	132072/1720	1:1	0.593	0.09	22.24	23.00	1.191	0.706	22.2		
Back side	20	QPSK 1_0	132572/1770	1:1	0.820	0.18	22.28	23.00	1.180	0.968	22.2		
Left side	20	QPSK 1_0	132322/1745	1:1	0.115	-0.03	22.32	23.00	1.169	0.134	22.2		
Top side	20	QPSK 1_0	132322/1745	1:1	0.718	0.11	22.32	23.00	1.169	0.840	22.2		
Top side	20	QPSK 1_0	132072/1720	1:1	0.664	0.19	22.24	23.00	1.191	0.791	22.2		
Top side	20	QPSK 1_0	132572/1770	1:1	0.813	0.03	22.28	23.00	1.180	0.960	22.2		
			Hotspot o	n Test	data(Separ	ate 10mm	n 50%RB)						
Front side	20	QPSK 50_0	132322/1745	1:1	0.413	-0.03	22.25	23.00	1.189	0.491	22.2		
Back side	20	QPSK 50_0	132322/1745	1:1	0.625	0.05	22.25	23.00	1.189	0.743	22.2		
Left side	20		132322/1745	1:1	0.085	-0.04	22.25	23.00	1.189	0.101	22.2		
Top side	20	QPSK 50_0	132322/1745	1:1	0.525	-0.02	22.25	23.00	1.189	0.624	22.2		
			Hotspot or	Test c	lata(Separa	ate 10mm	100%RB)						
Back side	20	QPSK 100_0	132322/1745	1:1	0.616	0.02	22.18	23.00	1.208	0.744	22.2		
Top side			132322/1745	1:1	0.508	-0.10	22.18	23.00	1.208	0.614	22.2		
			Test	Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled 10-	Liquid		
Test position	BW.	Test mode	Ch./Freq.	Cycle	(W/kg)10- g	Drift(dB)	power(dBm)		factor	g SAR(W/kg)	Temp.(℃		



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		Produ	ct specific (Sen	sro on)	10a SAR	Test data	Separate 0mr	n 1RB)							
Back side	20	QPSK 1 0	132322/1745	1:1	1.760	0.17	22.66	23.50	1.213	2.136	22.2				
Back side	20	QPSK 1 0	132072/1720	1:1	1.750	-0.10	22.62	23.50	1.225	2.143	22.2				
Back side	20	QPSK 1 0	132572/1770	1:1	1.810	0.08	22.57	23.50	1.239	2.242	22.2				
Top side	20	QPSK 1 0	132322/1745	1:1	1.750	-0.06	22.66	23.50	1.213	2.123	22.2				
Top side	20	QPSK 1_0	132072/1720	1:1	1.720	0.12	22.62	23.50	1.225	2.106	22.2				
Top side	20	QPSK 1_0	132572/1770	1:1	1.770	0.16	22.57	23.50	1.239	2.193	22.2				
,		Product	specific (Sensr	o on) 1	0g SAR Te	est data (S	Separate 0mm	50%RB)							
Back side	20	QPSK 50_0	132322/1745	1:1	1.360	0.17	22.58	23.50	1.236	1.681	22.2				
Top side	20	QPSK 50_0	132322/1745	1:1	1.300	-0.06	22.58	23.50	1.236	1.607	22.2				
		Product	specific (Sensro	on) 10	g SAR Te	st data (S	eparate 0mm	100%RB)							
Back side	20	QPSK 100_0	132322/1745	1:1	1.260	-0.04	22.46	23.50	1.271	1.601	22.2				
Top side	20	QPSK 100_0	132322/1745	1:1	1.190	-0.01	22.46	23.50	1.271	1.512	22.2				
	•	•	Product sp	ecific (Sensro on)	10g SAR	Test data				•				
Back side-18mm	Back side-18mm 20 QPSK 1_0 132572/1770 1:1 0.219 -0.05 23.77 24.50 1.183 0.259 22.2 Top side-17mm 20 QPSK 1_0 132572/1770 1:1 0.272 0.02 23.77 24.50 1.183 0.322 22.2														
Top side-17mm	20	QPSK 1_0			-			24.50	1.183	0.322	22.2				
			Α	nt 2 Te	st Record	for END	C								
				Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid				
Test position	BW.	Test mode	Test ch./Freq.	Cycle	(W/kg)	drift	Power(dBm)			SAR 1-g	Temp.(℃)				
		<u> </u>		l laa	1-g	(dB)				(W/kg)	,				
L oft about	1 20	ODCK 4.0	122222/1745		d Test Data		22.75	24.50	1 100	0.267	22.2				
Left cheek	20	QPSK 1_0 QPSK 1_0	132322/1745 132322/1745	1:1	0.225	-0.16	23.75 23.75	24.50	1.189	0.267	22.2 22.2				
Left tilted	+			1:1 1:1		0.19		24.50	1.189	0.118					
Right cheek Right tilted	20	QPSK 1_0 QPSK 1_0	132322/1745 132322/1745	1:1	0.442 0.149	0.09	23.75 23.75	24.50	1.189 1.189	0.525 0.177	22.2 22.2				
Right tilted	20	QFSK I_U	132322/1143		Test Data(23.73	24.30	1.109	0.177	22.2				
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.181	0.10	22.64	23.50	1.219	0.221	22.2				
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.083	-0.04	22.64	23.50	1.219	0.101	22.2				
Right cheek	20	QPSK 50_0		1:1	0.391	-0.13	22.64	23.50	1.219	0.477	22.2				
Right tilted	20	QPSK 50 0	132322/1745	1:1	0.112	0.11	22.64	23.50	1.219	0.137	22.2				
	<u>, </u>	1 2. 2			t data(Sep			20.00		00.					
Front side	20	QPSK 1_0	132322/1745	1:1	0.095	0.14	23.75	24.50	1.189	0.113	22.2				
Back side	20	QPSK 1 0	132322/1745	1:1	0.277	0.05	23.75	24.50	1.189	0.329	22.2				
			Body wor	n Test o	data(Separ	ate 15mm	50%RB)								
Front side	20	QPSK 50_0	132322/1745	1:1	0.082	0.03	22.64	23.50	1.219	0.100	22.2				
Back side	20	QPSK 50_0	132322/1745	1:1	0.259	-0.11	22.64	23.50	1.219	0.316	22.2				
	•		Hotspo	t Test	data(Sepai	ate 10mm	n 1RB)								
Front side	20	QPSK 1_0	132322/1745	1:1	0.128	0.01	23.75	24.50	1.189	0.152	22.2				
Back side	20	QPSK 1_0	132322/1745	1:1	0.438	-0.06	23.75	24.50	1.189	0.521	22.2				
Left side	20	QPSK 1_0	132322/1745	1:1	0.277	0.02	23.75	24.50	1.189	0.329	22.2				
Top side	20	QPSK 1_0	132322/1745	1:1	0.096	-0.14	23.75	24.50	1.189	0.114	22.2				
			Hotspot	Test da	ata(Separa	te 10mm :	50%RB)			· · · · · · · · · · · · · · · · · · ·					
Front side	20	QPSK 50_0	132322/1745	1:1	0.115	0.18	22.64	23.50	1.219	0.140	22.2				
Back side	20	QPSK 50_0	132322/1745	1:1	0.379	-0.04	22.64	23.50	1.219	0.462	22.2				
Left side	20	QPSK 50_0	132322/1745	1:1	0.248	-0.16	22.64	23.50	1.219	0.302	22.2				
Top side	20	QPSK 50_0	132322/1745	1:1	0.062	-0.18	22.64	23.50	1.219	0.076	22.2				

Test Position	Channel/ Frequency Measured SAR (1g)		1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	(19)	SAR (1g)		SAR (1g)	SAR (1g)
Right tilted	132572/1770	0.908	0.892	1.01793722	N/A	N/A

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

 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).



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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

Table 24: SAR of LTE Band 66 for Head and Body(original report No:SEWM2311000466RG09).

	LTE Band 66 SAR Test Record													
	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)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)			
			Hea	ad (Red	eiver on) 7	Γest Data((1RB)							
Right tilted	20	QPSK 1_0	132572/1770	1:1	0.842	-0.01	17.29	18.00	1.178	0.992	22.3			
			Body w	orn Te	st data(Se	oarate 15r	mm 1RB)							
Back side	20	QPSK 1_0	132322/1745	1:1	0.584	0.04	23.96	24.50	1.132	0.661	22.3			
			Hotspot	on Te	st data(Se	parate 10r	mm 1RB)							
Back side	20	QPSK 1_0	132572/1770	1:1	0.834	-0.03	22.28	23.00	1.180	0.984	22.3			
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)10- g	Power Drift(dB)	Conducted power(dBm)		Scaled	Scaled 10- g SAR(W/kg)	Liquid Temp.(℃)			
	,	Produ	uct specific (Sei	nsro or) 10g SAR	Test data	a(Separate 0n	nm 1RB)	•					
Back side	20	QPSK 1_0	132572/1770	1:1	1.790	-0.15	22.57	23.50	1.239	2.217	22.3			

Test Position	Channel/ Frequency	Measured SAR	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)
Right tilted	132572/1770	0.842	0.836	1.007177033	N/A	N/A

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

Table 25: SAR of LTE Band 66 for Head and Body(Variant).



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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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9.2.12 SAR Result of LTE Band 71

LTE Band 71 SAR Test Record													
					Ant 0 Test	Record							
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)		
				H	lead Test D	Data(1RB)							
Left cheek	20	QPSK 1_0	133297/680.5	1:1	0.116	-0.10	24.45	25.00	1.135	0.132	22.2		
Left tilted	20	QPSK 1_0	133297/680.5	1:1	0.085	-0.04	24.45	25.00	1.135	0.096	22.2		
Right cheek	20	QPSK 1_0	133297/680.5	1:1	0.199	0.07	24.45	25.00	1.135	0.226	22.2		
Right tilted	20	QPSK 1_0	133297/680.5	1:1	0.090	0.03	24.45	25.00	1.135	0.102	22.2		
				He	ad Test Da	ta(50%RE	3)						
Left cheek 20 QPSK 50_0 133297/680.5 1:1 0.089 0.04 23.32 24.00 1.169 0.104 22.2													
Left tilted	20	QPSK 50_0	133297/680.5	1:1	0.078	-0.18	23.32	24.00	1.169	0.091	22.2		
Right cheek	20	QPSK 50_0	133297/680.5	1:1	0.152	-0.18	23.32	24.00	1.169	0.178	22.2		
Right tilted	20	QPSK 50_0	133297/680.5	1:1	0.071	-0.05	23.32	24.00	1.169	0.083	22.2		
			В	ody worn 1	Test data(S	eparate 1	5mm 1RB)						
Front side	20	QPSK 1_0	133297/680.5	1:1	0.219	-0.07	24.45	25.00	1.135	0.249	22.2		
Back side	20	QPSK 1_0	133297/680.5	1:1	0.302	-0.04	24.45	25.00	1.135	0.343	22.2		
				dy worn Te	st data(Se	parate 15r	mm 50%RB)						
Front side	20	QPSK 50_0	133297/680.5	1:1	0.201	-0.11	23.32	24.00	1.169	0.235	22.2		
Back side	20	QPSK 50_0	133297/680.5	1:1	0.268	0.03	23.32	24.00	1.169	0.313	22.2		
				Hotspot Te	est data(Se	parate 10	mm 1RB)						
Front side	20	QPSK 1_0	133297/680.5	1:1	0.248	-0.10	24.45	25.00	1.135	0.281	22.2		
Back side	20	QPSK 1_0	133297/680.5	1:1	0.386	0.15	24.45	25.00	1.135	0.438	22.2		
Right side	20	QPSK 1_0	133297/680.5	1:1	0.045	-0.07	24.45	25.00	1.135	0.051	22.2		
Bottom side	20	QPSK 1_0	133297/680.5	1:1	0.153	-0.16	24.45	25.00	1.135	0.174	22.2		
			Н	otspot Tes	t data(Sepa	arate 10m	m 50%RB)						
Front side	20	QPSK 50_0	133297/680.5	1:1	0.205	0.02	23.32	24.00	1.169	0.240	22.2		
Back side	20	QPSK 50_0	133297/680.5	1:1	0.316	-0.03	23.32	24.00	1.169	0.370	22.2		
Right side	20	QPSK 50_0	133297/680.5	1:1	0.065	0.10	23.32	24.00	1.169	0.076	22.2		
Bottom side	20	QPSK 50_0	133297/680.5	1:1	0.228	0.13	23.32	24.00	1.169	0.267	22.2		

Table 26: SAR of LTE Band 71 for Head and Body.



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9.2.13 SAR Result of 5G NR n2

SA N2 SAR Test Record Ant2 Test Record for ENDC													
				Ant2	Test Reco	d for END	C						
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.(℃		
			<u>. </u>	Head (Re	eceiver on)	Test data	(1RB)						
Left cheek	20	QPSK 1_1	376000/1880	1:1	0.354	-0.11	17.68	18.50	1.208	0.428	22.3		
Left tilted	20	QPSK 1_1	376000/1880	1:1	0.428	-0.11	17.68	18.50	1.208	0.517	22.3		
Right cheek	20	QPSK 1_1	376000/1880	1:1	0.697	0.17	17.68	18.50	1.208	0.842	22.3		
Right cheek	20	QPSK 1_1	372000/1860	1:1	0.629	-0.13	17.62	18.50	1.225	0.770	22.3		
Right cheek	20	QPSK 1_1	380000/1900	1:1	0.656	0.16	17.66	18.50	1.213	0.796	22.3		
Right tilted	20	QPSK 1_1	376000/1880	1:1	0.730	-0.19	17.68	18.50	1.208	0.882	22.3		
Right tilted	20	QPSK 1_1	372000/1860	1:1	0.613	0.15	17.62	18.50	1.225	0.751	22.3		
Right tilted	20	QPSK 1_1	380000/1900	1:1	0.684	-0.10	17.66	18.50	1.213	0.830	22.3		
			H	ead (Rec	eiver on) T	est data(5	0%RB)						
Left cheek	20	QPSK 50_28	376000/1880	1:1	0.379	0.02	17.61	18.50	1.227	0.465	22.3		
Left tilted	20	QPSK 50_28	376000/1880	1:1	0.444	0.06	17.61	18.50	1.227	0.545	22.3		
Right cheek	20	QPSK 50_28	376000/1880	1:1	0.725	-0.06	17.61	18.50	1.227	0.890	22.3		
Right cheek	20	QPSK 50_28		1:1	0.629	0.02	17.53	18.50	1.250	0.786	22.3		
Right cheek	20	QPSK 50_28		1:1	0.695	0.17	17.49	18.50	1.262	0.877	22.3		
Right tilted	20	QPSK 50_28		1:1	0.760	0.01	17.61	18.50	1.227	0.933	22.3		
Right tilted	20	QPSK 50_28		1:1	0.651	0.08	17.53	18.50	1.250	0.814	22.3		
Right tilted	20	QPSK 50_28		1:1	0.716	-0.01	17.49	18.50	1.262	0.903	22.3		
rtight thtou	20	Q1 01(00_20			eiver on) Te			10.00	1.202	0.000	22.0		
Right cheek	20	QPSK 100 00		1:1	0.629	0.02	17.56	18.50	1.242	0.781	22.3		
Right tilted		QPSK 100_00		1:1	0.662	-0.04	17.56	18.50	1.242	0.822	22.3		
Trigin tintou		Q1 010 100_00	l		est data(Se		,	10.50	1.272	0.022	22.0		
Front side	20	QPSK 1_1	376000/1880	1:1	0.353	0.11	23.72	24.50	1.197	0.422	22.3		
Back side	20	QPSK 1_1	376000/1880	1:1	0.624	0.11	23.72	24.50	1.197	0.422	22.3		
Dack Side	20	QFSK I_I					m 50%RB)	24.50	1.197	0.747	22.3		
Front side	20	QPSK 50_28		1:1	0.267	0.14	23.72	24.50	1.197	0.320	22.3		
				1:1									
Back side	20	QPSK 50_28			0.505	-0.01	23.72	24.50	1.197	0.604	22.3		
Facultaids		0001/4 4			est data(Se	r		00.50	4.000	0.407	1 00 0		
Front side	20	QPSK 1_1	376000/1880	1:1	0.379	-0.18	21.59	22.50	1.233	0.467	22.3		
Back side	20	QPSK 1_1	376000/1880	1:1	0.685	0.03	21.59	22.50	1.233	0.845	22.3		
Back side	20	QPSK 1_1	372000/1860	1:1	0.662	0.05	21.55	22.50	1.245	0.824	22.3		
Back side	20	QPSK 1_1	380000/1900	1:1	0.673	-0.05	21.53	22.50	1.250	0.841	22.3		
Left side	20	QPSK 1_1	376000/1880	1:1	0.095	-0.01	21.59	22.50	1.233	0.117	22.3		
Top side	20	QPSK 1_1	376000/1880	1:1	0.881	-0.06	21.59	22.50	1.233	1.086	22.3		
Top side	20	QPSK 1_1	372000/1860	1:1	0.819	0.02	21.55	22.50	1.245	1.019	22.3		
Top side	20	QPSK 1_1	380000/1900	1:1	0.859	-0.09	21.53	22.50	1.250	1.074	22.3		
op side - Repeat	20	QPSK 1_1	376000/1880	1:1	0.874	0.14	21.59	22.50	1.233	1.078	22.3		
							m 50%RB)						
Front side	20		376000/1880	1:1	0.315	0.19	21.55	22.50	1.245	0.392	22.3		
Back side	20		376000/1880	1:1	0.544	0.17	21.55	22.50	1.245	0.677	22.3		
Left side	20		376000/1880	1:1	0.107	0.19	21.55	22.50	1.245	0.133	22.3		
Top side	20	QPSK 50_28	376000/1880	1:1	0.774	0.09	21.55	22.50	1.245	0.963	22.3		
Top side	20	QPSK 50_28	372000/1860	1:1	0.685	0.06	21.53	22.50	1.250	0.856	22.3		
Top side	20	QPSK 50_28	380000/1900	1:1	0.752	-0.07	21.49	22.50	1.262	0.949	22.3		
			Hotspo	t on Test	data (Sep	arate 10m	m 100%RB)						
Back side	20	QPSK 100_00	376000/1880	1:1	0.544	-0.11	21.51	22.50	1.256	0.683	22.3		
Top side	20	QPSK 100_00	376000/1880	1:1	0.640	0.14	21.51	22.50	1.256	0.804	22.3		



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Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
			Product sp	ecific 10c	SAR Test	data(Sepa	arate 0mm 1R	B)			
Back side	20	QPSK 1_1	376000/1880	1:1	1.840	0.07	23.72	24.50	1.197	2.202	22.3
Back side	20	QPSK 1_1	372000/1860	1:1	1.730	0.04	23.63	24.50	1.222	2.114	22.3
Back side	20	QPSK 1_1	380000/1900	1:1	1.800	-0.19	23.66	24.50	1.213	2.184	22.3
Top side	20	QPSK 1_1	376000/1880	1:1	2.480	0.14	23.72	24.50	1.197	2.968	22.3
Top side	20	QPSK 1_1	372000/1860	1:1	2.340	-0.12	23.63	24.50	1.222	2.859	22.3
Top side	20	QPSK 1_1	380000/1900	1:1	2.380	-0.11	23.66	24.50	1.213	2.888	22.3
			Product spec	ific 10g S	SAR Test d	ata(Separ	ate 0mm 50%	RB)			
Back side	20	QPSK 50_28	376000/1880	1:1	1.900	0.13	23.68	24.50	1.208	2.295	22.3
Back side	20	QPSK 50_28	372000/1860	1:1	1.800	0.14	23.50	24.50	1.259	2.266	22.3
Back side	20	QPSK 50_28	380000/1900	1:1	1.880	0.15	23.63	24.50	1.222	2.297	22.3
Top side	20	QPSK 50_28	376000/1880	1:1	2.590	0.06	23.68	24.50	1.208	3.128	22.3
Top side	20	QPSK 50_28	372000/1860	1:1	2.440	-0.01	23.50	24.50	1.259	3.072	22.3
Top side	20	QPSK 50_28	380000/1900	1:1	2.510	0.05	23.63	24.50	1.222	3.067	22.3
Top side - Repeat	20	QPSK 50_28	376000/1880	1:1	2.540	0.12	23.68	24.50	1.208	3.068	22.3
_	•		Product spec	ific 10g S	AR Test da	ata(Separa	ate 0mm 100%	RB)	•		
Back side	20	QPSK 100_00	376000/1880	1:1	1.800	-0.07	22.69	23.50	1.205	2.169	22.3
Top side	20	QPSK 100_00	376000/1880	1:1	2.260	-0.11	22.69	23.50	1.205	2.723	22.3

Table 27: SAR of 5G NR n2 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)	
Top side	376000/1880	0.881	0.874	1.008009153	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 \geq 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

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

Test Position	Channel/ Frequency	Measured SAR	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated	
	(MHz)	(10g)	SAR (10g)		SAR (10g)	SAR (10g)	
Top side	376000/1880	2.59	2.54	1.019685039	N/A	N/A	

Note: 1) When the original highest measured SAR is ≥ 2.0 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 ≥ 3.63 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 ≥ 3.75 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 < 2.0 W/kg



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9.2.14 SAR Result of 5G NR n25

SA N25 SAR Test Record											
					Ant3 Test F		<u> </u>				
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.(℃)
			Н	ead (Re	eceiver on)	Test data(1RB)				
Left cheek	20	QPSK 1_1	376500/1882.5	1:1	0.422	0.08	17.11	18.00	1.227	0.518	22.3
Left tilted	20	QPSK 1_1	376500/1882.5	1:1	0.459	-0.13	17.11	18.00	1.227	0.563	22.3
Right cheek	20	QPSK 1_1	376500/1882.5	1:1	0.854	0.02	17.11	18.00	1.227	1.048	22.3
Right cheek	20	QPSK 1_1	372000/1850	1:1	0.791	0.06	17.07	18.00	1.239	0.980	22.3
Right cheek	20	QPSK 1_1	381000/1905	1:1	0.837	-0.11	17.08	18.00	1.236	1.034	22.3
Right tilted	20		376500/1882.5	1:1	0.815	-0.06	17.11	18.00	1.227	1.000	22.3
Right tilted	20	QPSK 1_1	372000/1850	1:1	0.812	-0.17	17.07	18.00	1.239	1.006	22.3
Right tilted	20	QPSK 1_1	381000/1905	1:1	0.841	0.05	17.08	18.00	1.236	1.039	22.3
		T			eiver on) T	,	1 '				
Left cheek		_	376500/1882.5	1:1	0.438	0.02	17.05	18.00	1.245	0.545	22.3
Left tilted			376500/1882.5	1:1	0.476	0.06	17.05	18.00	1.245	0.592	22.3
Right cheek			376500/1882.5	1:1	0.876	0.13	17.05	18.00	1.245	1.090	22.3
Right cheek			372000/1850	1:1	0.791	-0.17	17.03	18.00	1.250	0.989	22.3
Right cheek			381000/1905	1:1	0.858	0.09	17.01	18.00	1.256	1.078	22.3
Right tilted			376500/1882.5	1:1	0.891	0.04	17.05	18.00	1.245	1.109	22.3
Right tilted			372000/1850	1:1	0.733	-0.15	17.03	18.00	1.250	0.916	22.3
Right tilted			381000/1905	1:1	0.854	-0.14	17.01	18.00	1.256	1.073	22.3
Right tilted - Repeat	20	QPSK 50_28	376500/1882.5	1:1	0.877	0.04	17.05	18.00	1.245	1.091	22.3
		1			eiver on) Te		1 ' 1		T T		T
Right cheek			376500/1882.5	1:1	0.858	0.03	17.01	18.00	1.256	1.078	22.3
Right tilted	20	QPSK 100_0	376500/1882.5	1:1	0.837	0.01	17.01	18.00	1.256	1.051	22.3
		I			est data(Se	i			1 1		
Front side	20		376500/1882.5	1:1	0.551	-0.03	23.69	24.50	1.205	0.664	22.3
Back side	20		376500/1882.5	1:1	0.774	0.08	23.69	24.50	1.205	0.933	22.3
Back side	20	QPSK 1_1	372000/1850	1:1	0.677	0.08	23.53	24.50	1.250	0.846	22.3
Back side	20	QPSK 1_1	381000/1905	1:1	0.802	0.07	23.54	24.50	1.247	1.000	22.3
Encode alida	00	0001/ 50 00	•		t data (Sep		1	04.50	4 047	0.040	T 00.0
Front side			376500/1882.5		0.518	-0.07	23.54	24.50	1.247	0.646	22.3
Back side Back side			376500/1882.5	1:1	0.776 0.673	0.05	23.54	24.50	1.247	0.968	22.3
			372000/1850	1:1	0.673	0.09	23.51	24.50	1.256	0.845	22.3
Back side	20	QPSK 50_26	381000/1905	1:1			23.54 n 100%RB)	24.50	1.247	0.951	22.3
Back side	20	OBSK 100 0	376500/1882.5		0.754	-0.14	22.59	22.50	1.233	0.930	22.3
Dack Side	20	QF3K 100_0			est data(Se			23.50	1.233	0.930	22.3
Front side	20	OPSK 1 1	376500/1882.5		0.499	0.15	20.51	21.50	1.256	0.627	22.3
Back side	20		376500/1882.5	1:1	0.688	-0.05	20.51	21.50	1.256	0.864	22.3
Back side	20	QPSK 1_1	372000/1850	1:1	0.589	-0.03	20.46	21.50	1.271	0.748	22.3
Back side	20	QPSK 1_1	381000/1905	1:1	0.657	0.06	20.40	21.50	1.259	0.748	22.3
Left side	20		376500/1882.5	1:1	0.139	0.00	20.50	21.50	1.256	0.027	22.3
Right side	20		376500/1882.5	1:1	0.139	-0.17	20.51	21.50	1.256	0.173	22.3
Top side	20		376500/1882.5	1:1	0.841	-0.17	20.51	21.50	1.256	1.056	22.3
Top side	20	QPSK 1_1	372000/1850	1:1	0.823	0.05	20.46	21.50	1.271	1.046	22.3
Top side Top side	20	QPSK 1_1	381000/1905	1:1	0.823	-0.11	20.40	21.50	1.259	1.059	22.3
TOP SILLE	20	<u> </u>			t data (Sep			۷1.00	1.200	1.000	
Front side	20	OPSK 50, 28	376500/1882.5		0.449	0.01	20.35	21.50	1.303	0.585	22.3
Back side			376500/1882.5		0.643	0.10	20.35	21.50	1.303	0.838	22.3
Back side			372000/1002.3	1:1	0.544	0.10	20.23	21.50	1.340	0.729	22.3



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Back side	20	QPSK 50_28	381000/1905	1:1	0.594	-0.05	20.34	21.50	1.306	0.776	22.3
Left side	20	QPSK 50_28	376500/1882.5	1:1	0.179	0.06	20.35	21.50	1.303	0.233	22.3
Right side	20	QPSK 50_28	376500/1882.5	1:1	0.045	0.03	20.35	21.50	1.303	0.059	22.3
Top side	20	QPSK 50_28	376500/1882.5	1:1	0.522	0.02	20.35	21.50	1.303	0.680	22.3
					t data (Sepa	arate 10mr	m 100%RB)				
Back side	20	QPSK 100_0	376500/1882.5	1:1	0.607	0.01	20.34	21.50	1.306	0.793	22.3
Top side	20	QPSK 100_0	376500/1882.5	1:1	0.472	0.12	20.34	21.50	1.306	0.617	22.3
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)10- g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)		Scaled 10-g SAR(W/kg)	Liquid Temp.
		Pro	duct specific (S	ensro o	n) 10g SAF	R Test data	(Separate 0n	nm 1RB)			
Front side	20	QPSK 1_1	376500/1882.5	1:1	2.250	-0.06	22.11	23.00	1.227	2.762	22.3
Front side	20	QPSK 1_1	372000/1850	1:1	2.160	-0.04	22.03	23.00	1.250	2.701	22.3
Front side	20	QPSK 1_1	381000/1905	1:1	2.210	-0.04	22.07	23.00	1.239	2.738	22.3
Back side	20	QPSK 1_1	376500/1882.5	1:1	2.030	0.02	22.11	23.00	1.227	2.492	22.3
Back side	20	QPSK 1_1	372000/1850	1:1	1.930	-0.03	22.03	23.00	1.250	2.413	22.3
Back side	20	QPSK 1_1	381000/1905	1:1	1.960	-0.07	22.07	23.00	1.239	2.428	22.3
Top side	20	QPSK 1_1	376500/1882.5	1:1	2.370	-0.17	22.11	23.00	1.227	2.909	22.3
Top side	20	QPSK 1_1	372000/1850	1:1	2.260	0.16	22.03	23.00	1.250	2.826	22.3
Top side	20	QPSK 1_1	381000/1905	1:1	2.350	0.02	22.07	23.00	1.239	2.911	22.3
		Prod	luct specific (Se	nsro on) 10gSAR 1	Test data (Separate 0mn	1 50%RB)			
Front side	20		376500/1882.5		1.640	-0.02	22.05	23.00	1.245	2.041	22.3
Front side	20	QPSK 50_28	372000/1850	1:1	1.530	-0.09	22.01	23.00	1.256	1.922	22.3
Front side			381000/1905	1:1	1.580	-0.15	22.03	23.00	1.250	1.975	22.3
Back side	20		376500/1882.5	1:1	1.840	0.05	22.05	23.00	1.245	2.290	22.3
Back side	20		372000/1850	1:1	1.730	-0.11	22.01	23.00	1.256	2.173	22.3
Back side			381000/1905	1:1	1.800	0.02	22.03	23.00	1.250	2.250	22.3
Top side	-		376500/1882.5	1:1	2.530	-0.07	22.05	23.00	1.245	3.149	22.3
Top side	20		372000/1850	1:1	2.410	0.09	22.01	23.00	1.256	3.027	22.3
Top side			381000/1905	1:1	2.440	0.03	22.03	23.00	1.250	3.051	22.3
Top side - Repeat	20		376500/1882.5		2.460	0.01	22.05	23.00	1.245	3.062	22.3
			uct specific (Ser			,	. '	100%RB)			
Front side	20		376500/1882.5		1.550	0.12	22.02	23.00	1.253	1.942	22.3
Back side	1		376500/1882.5	1:1	1.750	0.13	22.02	23.00	1.253	2.193	22.3
Top side	20	QPSK 100_0	376500/1882.5	1:1	2.280	-0.17	22.02	23.00	1.253	2.857	22.3
							R Test data				
Front side-5mm	20		376500/1882.5		1.100	0.03	23.69	24.50	1.205	1.326	22.3
Back side-18mm	20		376500/1882.5	1:1	0.295	-0.18	23.69	24.50	1.205	0.355	22.3
Top side-17mm	20	QPSK 50_28	376500/1882.5	1:1	0.457	0.07	23.54	24.50	1.247	0.570	22.3

Test Position	Channel/ Frequency	Measured SAR	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated	
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)	
Right tilted	376500/1882.5	0.891	0.877	1.015963512	N/A	N/A	

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



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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 \geq 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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Test Position	Channel/ Frequency	Measured SAR	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated	
	(MHz)	(10g)	SAR (10g)		SAR (10g)	SAR (10g)	
Top side	376500/1882.5	2.53	2.46	1.028455285	N/A	N/A	

Note: 1) When the original highest measured SAR is ≥ 2.0 W/kg, the measurement was repeated once.

Table 28: SAR of 5G NR n25 for Head and Body(original report No:SEWM2311000466RG09).

				SA N25 SAR Test Record											
	Ant3 Test Record														
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)				
			He	ead (Re	ceiver on) ⁻	Test data(50%RB)								
Right tilted	20	QPSK 50_28	376500/1882.5	1:1	0.616	0.05	17.05	18.00	1.245	0.767	22.2				
			Body	worn ⁻	Γest data(S	eparate 1	5mm 1RB)								
Back side	20	QPSK 1_1	381000/1905	1:1	0.458	-0.03	23.54	24.50	1.247	0.571	22.2				
			Hots	pot on '	Test data(S	eparate 10	0mm 1RB)								
Top side	20	QPSK 1_1	381000/1905	1:1	0.669	0.19	20.50	21.50	1.259	0.842	22.2				
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)10- g	Power Drift(dB)	Conducted power(dBm)			Scaled 10-g SAR(W/kg)	Liquid Temp.				
	•	Pro	duct specific (Se	ensro o	n) 10gSAR	Test data	(Separate 0m	m 50%RB)		•					
Top side	20	QPSK 50_28	376500/1882.5	1:1	2.520	0.17	22.05	23.00	1.245	3.136	22.2				

Test Position	Channel/ Frequency Measured SAR (10g)		1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	(10g)	SAR (10g)		SAR (10g)	SAR (10g)
Top side	376500/1882.5	2.52	2.44	1.03278689	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 2.0 W/kg, the measurement was repeated once.



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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 ≥ 3.63 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 ≥ 3.75 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 < 2.0 W/kg

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 ≥ 3.63 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 ≥ 3.75 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 < 2.0 W/kg

Table 29: SAR of 5G NR n25 for Head and Body(Variant).



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9.2.15 SAR Result of 5G NR n26

	SA N26 SAR Test Record											
					Ant0 1	Test Reco	rd					
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)	
Head Test data(1RB)												
Left cheek	20	QPSK 1_1	166300/831.5	1:1	0.187	-0.14	23.63	25.00	1.371	0.256	22.3	
Left tilted	20	QPSK 1_1	166300/831.5	1:1	0.145	-0.16	23.63	25.00	1.371	0.199	22.3	
Right cheek	20	QPSK 1_1	166300/831.5	1:1	0.283	0.02	23.63	25.00	1.371	0.388	22.3	
Right tilted	20	QPSK 1_1	166300/831.5	1:1	0.175	0.13	23.63	25.00	1.371	0.240	22.3	
					Head Tes	st data(509	%RB)					
Left cheek 20 QPSK 50_28 166300/831.5 1:1 0.218 -0.18 23.63 25.00 1.371 0.299 22.3												
Left tilted	20	QPSK 50_28	166300/831.5	1:1	0.172	0.11	23.63	25.00	1.371	0.236	22.3	
Right cheek			166300/831.5	1:1	0.302	-0.06	23.63	25.00	1.371	0.414	22.3	
Right tilted	20	QPSK 50_28	166300/831.5	1:1	0.206	0.14	23.63	25.00	1.371	0.282	22.3	
				Body wo	rn Test da	ta(Separa	te 15mm 1RB)	·		,		
Front side	20	QPSK 1_1	166300/831.5	1:1	0.193	0.09	23.63	25.00	1.371	0.265	22.3	
Back side	20	QPSK 1_1	166300/831.5	1:1	0.259	0.07	23.63	25.00	1.371	0.355	22.3	
			Е	ody wor	n Test data	(Separate	15mm 50%R	В)				
Front side	20	QPSK 50_28	166300/831.5	1:1	0.198	-0.05	23.63	25.00	1.371	0.271	22.3	
Back side	20	QPSK 50_28	166300/831.5	1:1	0.258	-0.17	23.63	25.00	1.371	0.354	22.3	
				Hotspo	t Test data	a(Separate	10mm 1RB)	•		,		
Front side	20	QPSK 1_1	166300/831.5	1:1	0.289	0.03	23.63	25.00	1.371	0.396	22.3	
Back side	20	QPSK 1_1	166300/831.5	1:1	0.494	0.06	23.63	25.00	1.371	0.677	22.3	
Left side	20	QPSK 1_1	166300/831.5	1:1	0.000	0.00	23.63	25.00	1.371	0.000	22.3	
Right side	20	QPSK 1_1	166300/831.5	1:1	0.000	0.00	23.63	25.00	1.371	0.000	22.3	
Bottom side	20	QPSK 1_1	166300/831.5	1:1	0.208	-0.05	23.63	25.00	1.371	0.285	22.3	
				Hotspot '	Test data (Separate	10mm 50%RB)				
Front side	20	QPSK 50_28	166300/831.5	1:1	0.323	0.12	23.63	25.00	1.371	0.443	22.3	
Back side	20	QPSK 50_28	166300/831.5	1:1	0.493	-0.04	23.63	25.00	1.371	0.676	22.3	
Left side	20	QPSK 50_28	166300/831.5	1:1	0.000	0.00	23.63	25.00	1.371	0.000	22.3	
Right side	20	QPSK 50_28	166300/831.5	1:1	0.000	0.00	23.63	25.00	1.371	0.000	22.3	
Bottom side	20	QPSK 50_28	166300/831.5	1:1	0.325	-0.18	23.63	25.00	1.371	0.446	22.3	

Table 30: SAR of 5G NR n26 for Head and Body.



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9.2.16 SAR Result of 5G NR n30

				SA	N3U SAR I	est Record	d				
					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.(℃)
			ŀ	lead (R	eceiver on)	Test data(1RB)				
Left cheek	10	QPSK 1_1	462000/2310	1:1	0.301	0.06	20.06	21.00	1.242	0.374	22.4
Left tilted	10	QPSK 1_1	462000/2310	1:1	0.362	0.17	20.06	21.00	1.242	0.449	22.4
Right cheek	10	QPSK 1_1	462000/2310	1:1	0.857	-0.13	20.06	21.00	1.242	1.064	22.4
Right tilted	10	QPSK 1_1	462000/2310	1:1	0.909	0.02	20.06	21.00	1.242	1.129	22.4
Right tilted - Repeat	10	QPSK 1_1	462000/2310	1:1	0.892	0.09	20.06	21.00	1.242	1.108	22.4
			He	ad (Red	ceiver on) T	est data(5	0%RB)				
Left cheek	10	QPSK 25_14	462000/2310	1:1	0.298	-0.10	20.04	21.00	1.247	0.372	22.4
Left tilted	10	QPSK 25_14	462000/2310	1:1	0.360	0.02	20.04	21.00	1.247	0.449	22.4
Right cheek	10	QPSK 25_14	462000/2310	1:1	0.827	0.01	20.04	21.00	1.247	1.032	22.4
Right tilted	10	QPSK 25_14	462000/2310	1:1	0.866	-0.10	20.04	21.00	1.247	1.080	22.4
			He	ad (Rec	eiver on) To	est data(10	00%RB)				
Right cheek	10	QPSK 50_0	462000/2310	1:1	0.745	-0.06	20.01	21.00	1.256	0.936	22.4
Right tilted	10	QPSK 50_0	462000/2310	1:1	0.827	-0.02	20.01	21.00	1.256	1.039	22.4
			Body	worn T	est data(Se	eparate 15	mm 1RB)				
Front side	10	QPSK 1_1	462000/2310	1:1	0.256	-0.15	23.82	25.00	1.312	0.336	22.4
Back side	10	QPSK 1_1	462000/2310	1:1	0.638	0.06	23.82	25.00	1.312	0.837	22.4
			Body v	vorn Te	st data(Sep	arate 15m	m 50%RB)				
Front side	10	QPSK 25_14	462000/2310	1:1	0.280	0.01	23.59	25.00	1.384	0.387	22.4
Back side	10	QPSK 25_14	462000/2310	1:1	0.682	0.05	23.59	25.00	1.384	0.944	22.4
			Body w	orn Tes	st data(Sepa	arate 15mr	n 100%RB)		•		
Back side	10	QPSK 50_0	462000/2310	1:1	0.541	0.18	22.65	24.00	1.365	0.738	22.4
			Hots	pot on T	Test data(Se	eparate 10	mm 1RB)				
Front side	10	QPSK 1_1	462000/2310	1:1	0.300	-0.09	21.59	22.50	1.233	0.370	22.4
Back side	10	QPSK 1_1	462000/2310	1:1	0.810	-0.15	21.59	22.50	1.233	0.999	22.4
Left side	10	QPSK 1_1	462000/2310	1:1	0.332	0.07	21.59	22.50	1.233	0.409	22.4
Top side	10	QPSK 1_1	462000/2310	1:1	0.741	-0.03	21.59	22.50	1.233	0.914	22.4
			Hotspo	t on Te	st data (Ser	parate 10m	m 50%RB)		•		
Front side	10	QPSK 25_14	462000/2310	1:1	0.307	-0.12	21.52	22.50	1.253	0.385	22.4
Back side	10	QPSK 25_14	462000/2310	1:1	0.824	-0.10	21.52	22.50	1.253	1.033	22.4
Left side			462000/2310	1:1	0.337	0.19	21.52	22.50	1.253	0.422	22.4
Top side	10	QPSK 25_14	462000/2310	1:1	0.727	0.15	21.52	22.50	1.253	0.911	22.4
			Hotspo	t on Tes	t data (Sep	arate 10m	m 100%RB)		•		
Back side	10	QPSK 50_0	462000/2310	1:1	0.699	-0.08	21.49	22.50	1.262	0.882	22.4
Top side	10	QPSK 50_0	462000/2310	1:1	0.679	-0.14	21.49	22.50	1.262	0.857	22.4
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)10-	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
	L	Des	·		9					J	
Back side	10	QPSK 1_1	oduct specific (\$462000/2310				22.14		1 210	2 657	22.4
	10	QPSK 1_1 QPSK 1_1		1:1	2.180	0.08		23.00	1.219	2.657	22.4
Back side - Repeat Top side	10			1:1	2.120	0.16	22.14	23.00	1.219	2.584	22.4
Top side	10	QPSK 1_1		1:1	1.320	-0.19	22.14	23.00	1.219	1.609	22.4
Back side	10		duct specific (Se						1 226	2 670	22.4
Back side			462000/2310	1:1	2.160	0.07	22.08	23.00	1.236	2.670	22.4
Top side	10		462000/2310		1.380	0.06	22.08	23.00	1.236	1.706	22.4
			uct specific (Se			-0.16	Separate 0mm 22.02		T	1	
Back side	40		462000/2310	1:1	1.680			23.00	1.253	2.105	22.4



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Back side-18mm	10	QPSK 1_1	462000/2310	1:1	0.200	-0.16	23.82	25.00	1.312	0.262	22.4
Top side-17mm	10	QPSK 25_14	462000/2310	1:1	0.234	-0.18	23.59	25.00	1.384	0.324	22.4

Test Position	Channel/ Frequency	Measured SAR	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated	
	(MHz)	(MHz) (1g)			SAR (1g)	SAR (1g)	
Right tilted	462000/2310	0.909	0.892	1.019058296	N/A	N/A	

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

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

Test Position	Channel/ Frequency	Measured SAR	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated	
	(MHz)	(10g)	SAR (10g)		SAR (10g)	SAR (10g)	
Back side	462000/2310	2.18	2.12	1.028301887	N/A	N/A	

Note: 1) When the original highest measured SAR is ≥ 2.0 W/kg, the measurement was repeated once.

Table 31: SAR of 5G NR n30 for Head and Body(original report No:SEWM2311000466RG09).

	SA N30 SAR Test Record											
	Ant3 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)	
				Head (F	Receiver on) Test data	a(1RB)					
Right tilted 10 QPSK 1_1 462000/2310 1:1 0.591 -0.01 20.06 21.00 1.242 0.734 21.9												
			Body	worn T	est data(Se	parate 15r	nm 50%RB)					
Back side	10	QPSK 25_14	462000/2310	1:1	0.525	0.04	23.59	25.00	1.384	0.726	21.9	
			Hotsp	ot on Te	est data (Se	parate 10	mm 50%RB)					
Back side	10	QPSK 25_14	462000/2310	1:1	0.595	-0.12	21.52	22.50	1.253	0.746	21.9	
Test position BW. Test mode Ch./Freq. Duty Ch./Freq												
	Product specific (Sensor on) 10gSAR Test data (Separate 0mm 1RB)											
Back side	10	QPSK 1_1	462000/2310	1:1	1.270	-0.02	22.14	23.00	1.219	1.548	21.9	

Table 32: SAR of 5G NR n30 for Head and Body(Variant).



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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 \geq 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

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 ≥ 3.63 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 ≥ 3.75 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 < 2.0 W/kg



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9.2.17 SAR Result of 5G NR n41

SA N41 SAR Test Record											
				Ant	3 Test Red	cord					
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.(℃)
	•		Head	(Recei	ver on) Te	st data(1F	RB)		, ,		
Left cheek	100	QPSK 1_1	518598/2592.99	1:1	0.447	-0.08	18.20	19.00	1.202	0.537	22.2
Left tilted	100	QPSK 1_1	518598/2592.99	1:1	0.266	-0.04	18.20	19.00	1.202	0.320	22.2
Right cheek	100	QPSK 1_1	518598/2592.99	1:1	0.905	-0.03	18.20	19.00	1.202	1.088	22.2
Right tilted	100	QPSK 1_1	518598/2592.99		0.740	0.05	18.20	19.00	1.202	0.890	22.2
Head (Receiver on) Test data(50%RB)											
Left cheek		_	518598/2592.99		0.494	-0.07	18.11	19.00	1.227	0.606	22.2
Left tilted			518598/2592.99		0.281	0.09	18.11	19.00	1.227	0.345	22.2
Right cheek PC3&PC2	100	QPSK 135_69	518598/2592.99	1:1	0.971	0.02	18.11	19.00	1.227	1.192	22.2
Right cheek PC3&PC2 - Repeat	100	QPSK 135_69	518598/2592.99	1:1	0.966	0.04	18.11	19.00	1.227	1.186	22.2
Right tilted	100	QPSK 135_69	518598/2592.99		0.805	-0.12	18.11	19.00	1.227	0.988	22.2
					r on) Test	data(1009					1
Right cheek	100		518598/2592.99		0.894	-0.01	18.05	1.00	0.020	0.018	22.2
Right tilted	100	QPSK 270_0	518598/2592.99		0.669	0.14	18.05	1.00	0.020	0.013	22.2
	1	T = = =			data(Sepa		,				
Front side	100		518598/2592.99		0.247	0.04	22.59	23.00	1.099	0.271	22.2
Back side PC3	100		518598/2592.99		0.543	0.02	22.59	23.00	1.099	0.597	22.2
Back side PC2	100	QPSK 1_1	518598/2592.99		0.688	-0.05	25.52	26.00	1.117	0.768	22.2
Body worn Test data (Separate 15mm 50%RB)									1		
Front side			518598/2592.99		0.253	0.01	22.55	23.00	1.109	0.281	22.2
Back side	100	QPSK 135_69	518598/2592.99		0.513	-0.08	22.55	23.00	1.109	0.569	22.2
F	1400	00014.4			data(Sepa			04.50	1 005	0.400	
Front side	100		518598/2592.99		0.351	-0.17	20.62	21.50	1.225	0.430	22.2
Back side	100		518598/2592.99	1:1	0.824	0.19	20.62	21.50	1.225	1.009	22.2
Left side	100	_	518598/2592.99		0.475	-0.11	20.62	21.50	1.225	0.582	22.2
Top side	100	QPSK 1_1	518598/2592.99		0.566	0.17	20.62	21.50	1.225	0.693	22.2
Frant side	400	ODCK 425, 60	Hotspot on					04.50	4 047	0.404	20.0
Front side Back side PC3&PC2		_	518598/2592.99 518598/2592.99		0.348 0.845	-0.16 0.18	20.54 20.54	21.50	1.247	0.434 1.054	22.2 22.2
Left side		_	518598/2592.99		0.845	0.18	20.54	21.50	1.247	0.538	22.2
Top side		_	518598/2592.99		0.451	0.10	20.54	21.50	1.247	0.686	22.2
rup side	100	WEOK 130_09	Hotspot on T					21.00	1.241	0.000	∠∠.∠
Back side	100	OPSK 270_0	518598/2592.99		0.764	0.09	20.46	21.50	1.271	0.971	22.2
Dack Side	100	Q1 01(270_0			SAR					Scaled 10-	
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	(W/kg)10-	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled	g SAR(W/kg)	Liquid Temp.
			Product specific	10a S <i>A</i>		ta (Separa	ate 0mm 1RB)		,	(3)	
Back side PC3&PC2	100		518598/2592.99		2.690	0.08	22.59	23.00	1.099	2.956	22.2
Back side PC3&PC2 - Repeat	100	_	518598/2592.99		2.610	0.04	22.59	23.00	1.099	2.868	22.2
Product specific 10g SAR Test data (Separate 0mm 50%RB)										I.	
Back side	100		518598/2592.99		2.400	0.14	22.55	23.00	1.109	2.662	22.2

Test Position	Channel/ Frequency	Measured SAR	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated				
lest Position	(MHz)	(1g)	SAR (1g)	Katio	SAR (1g)	SAR (1g)				
Right cheek	N/A	N/A								
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.										



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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 \geq 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

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

Test Position	Channel/ Frequency	Measured SAR	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Test Position	(MHz)	(10g)	SAR (10g)	Ratio	SAR (10g)	SAR (10g)
Back side	518598/2592.99	2.69	2.61	1.030651341	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 2.0 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 ≥ 3.63 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 ≥ 3.75 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 < 2.0 W/kg

Table 33: SAR of 5G NR n41 for Head and Body(original report No:SEWM2311000466RG09).

			S	A N41	SAR Test	Record						
				Ant	3 Test Re	cord						
Test position	BW	Modulation	Test ch./Freq.	Duty Cycl e	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)	
			Head (F	Receiv	er on) Test	data(509	%RB)					
Right cheek PC3&PC2	100	QPSK 135_69	518598/2592.9 9	1:1	0.719	0.04	18.11	19.00	1.227	0.883	22.1	
	Body worn Test data(Separate 15mm 1RB)											
Back side PC2	100	QPSK 1_1	518598/2592.9 9	1:1	0.842	-0.07	25.52	26.00	1.117	0.940	22.1	
			Hotspot on	Test d	ata (Separ	ate 10mm	n 50%RB)					
Back side PC3&PC2	100	QPSK 135_69	518598/2592.9 9	1:1	0.633	-0.07	20.54	21.50	1.247	0.790	22.1	
Test position	BW	Test mode	Test Ch./Freq.	Duty Cycl e	SAR (W/kg)10 -g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scale	Scaled 10- g SAR(W/kg)	Liquid Temp.	
Product specific 10g SAR Test data (Separate 0mm 1RB)												
Back side PC3&PC2	100	QPSK 1_1	518598/2592.9 9	1:1	1.610	0.19	22.59	23.00	1.099	1.769	22.1	

Test Position	Channel/ Frequency	Measured SAR	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
rest Fosition	(MHz)	(1g)	SAR (1g)	Kalio	SAR (1g)	SAR (1g)
Back side	518598/2592.99	0.842	0.835	1.00838323	N/A	N/A

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

Table 34: SAR of 5G NR n41 for Head and Body(Variant).



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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 \geq 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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9.2.18 SAR Result of 5G NR n66

SA N66 SAR Test Record											
				Ant	3 Test Re	cord					
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃
	,		Head	(Recei	ver on) Te	st data(1F	RB)		· · · · · · ·		
Left cheek	40	QPSK 1_1	349000/1745	1:1	0.570	-0.19	17.09	18.00	1.233	0.703	22.2
Left tilted	40	QPSK 1_1	349000/1745	1:1	0.604	0.19	17.09	18.00	1.233	0.745	22.2
Right cheek	40	QPSK 1_1	349000/1745	1:1	0.809	-0.16	17.09	18.00	1.233	0.998	22.2
Right tilted	40	QPSK 1_1	349000/1745	1:1	0.871	-0.10	17.09	18.00	1.233	1.074	22.2
Head (Receiver on) Test data(50%RB)											
Left cheek	40	QPSK 108_54	349000/1745	1:1	0.587	0.06	17.05	18.00	1.245	0.731	22.2
Left tilted	40	QPSK 108_54	349000/1745	1:1	0.618	0.01	17.05	18.00	1.245	0.769	22.2
Right cheek		QPSK 108_54		1:1	0.850	-0.06	17.05	18.00	1.245	1.058	22.2
Right tilted		QPSK 108_54		1:1	0.891	0.03	17.05	18.00	1.245	1.109	22.2
Right tilted - Repeat		 QPSK 108_54		1:1	0.886	0.01	17.05	18.00	1.245	1.103	22.2
<u> </u>		_			r on) Test		1				
Right cheek	40	QPSK 216_0		1:1	0.754	0.05	17.02	18.00	1.253	0.945	22.2
Right tilted	40	_	349000/1745	1:1	0.843	0.11	17.02	18.00	1.253	1.056	22.2
	1		Body worr						1		
Front side	40	QPSK 1_1	349000/1745	1:1	0.519	-0.04	23.74	25.00	1.337	0.694	22.2
Back side	40	QPSK 1_1	349000/1745	1:1	0.659	0.03	23.74	25.00	1.337	0.881	22.2
Zuon oluo		<u> </u>	Body worn 7					20.00	1	0.00	
Front side	40	QPSK 108_54		1:1	0.556	0.07	23.66	25.00	1.361	0.757	22.2
Back side		QPSK 108_54		1:1	0.669	0.10	23.66	25.00	1.361	0.911	22.2
Zuoii oluo	1.0	<u> </u>	Hotspot or						1		
Front side	40	QPSK 1_1	349000/1745	1:1	0.391	-0.02	21.13	22.00	1.222	0.478	22.2
Back side	40	QPSK 1_1	349000/1745	1:1	0.495	0.08	21.13	22.00	1.222	0.605	22.2
Left side	40	QPSK 1_1	349000/1745	1:1	0.137	0.11	21.13	22.00	1.222	0.167	22.2
Right side	40	QPSK 1_1	349000/1745	1:1	0.063	-0.10	21.13	22.00	1.222	0.077	22.2
Top side	40	QPSK 1_1	349000/1745	1:1	0.589	-0.18	21.13	22.00	1.222	0.720	22.2
1 op side	40	QI OIT I_I	Hotspot on 7			1		22.00	1.222	0.720	
Front side	40	QPSK 108_54		1:1	0.396	-0.18	21.09	22.00	1.233	0.488	22.2
Back side		QPSK 108_54		1:1	0.553	-0.18	21.09	22.00	1.233	0.682	22.2
Left side		QPSK 108_54		1:1	0.149	-0.03	21.09	22.00	1.233	0.002	22.2
Right side		QPSK 108_54		1:1	0.070	-0.06	21.09	22.00	1.233	0.086	22.2
Top side		QPSK 108_54		1:1	0.625	0.00	21.09	22.00	1.233	0.771	22.2
1 op olde	70	Q1 O1 100_0+	Hotspot on T					22.00	1.200	0.771	
Top side	40	QPSK 216_0		1:1	0.544	-0.19	21.05	22.00	1.245	0.677	22.2
1 op side	70	Q1 01(210_0			CAD						
Test position	BW.	Test mode	Test	Duty	(W/kg)10-	Power	Conducted	Tune up	Scaled	g	Liquid
•			Ch./Freq.	Cycle	g	Dritt(aB)	Conducted power(dBm)	Limit(aBm)	tactor	SAR(W/kg)	Temp.
		Product	specific (Senso	r on) 1	l0g SAR T	est data (Separate 0mn	n 1RB)			
Front side	40	QPSK 1_1	349000/1745	1:1	1.610	-0.04	23.20	24.00	1.202	1.936	22.2
Back side	40	QPSK 1_1	349000/1745	1:1	1.910	0.06	23.20	24.00	1.202	2.296	22.2
Top side	40	QPSK 1_1	349000/1745	1:1	2.280	0.08	23.20	24.00	1.202	2.741	22.2
Top side - Repeat	40	QPSK 1_1	349000/1745	1:1	2.210	0.04	23.20	24.00	1.202	2.657	22.2
		Product sp	pecific (Sensor	on) 10	g SAR Te	st data (S	eparate 0mm	50%RB)			
Front side	40	QPSK 108_54	349000/1745	1:1	1.790	0.10	23.13	24.00	1.222	2.187	22.2
Back side	40	QPSK 108_54	349000/1745	1:1	2.190	0.02	23.13	24.00	1.222	2.676	22.2
Top side			349000/1745		2.200	-0.18	23.13	24.00	1.222	2.688	22.2
1			ecific (Sensor o								
		: op	. , , , , , , , , ,	, ;	,			,			



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In .												
Back side	40	QPSK 216_0	349000/1745	1:1	1.670	-0.07	23.10	24.00	1.230	2.055	22.2	
Top side	40	QPSK 216_0	349000/1745	1:1	2.050	0.04	23.10	24.00	1.230	2.522	22.2	
			Product spec	cific (S	ensor off)	10g SAR	Test data					
Front side-5mm	40	QPSK 108_54	349000/1745	1:1	0.804	-0.17	23.66	25.00	1.361	1.095	22.2	
Back side-19mm	40	QPSK 108_54	349000/1745	1:1	0.196	-0.02	23.66	25.00	1.361	0.267	22.2	
Top side-18mm	40	QPSK 1_1	349000/1745	1:1	0.249	0.09	23.74	25.00	1.337	0.333	22.2	
Ant2 Test Record for ENDC												
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.(℃)	
				Head	Test data	(1RB)						
Left cheek	40	QPSK 1_1	349000/1745	1:1	0.085	-0.13	23.64	25.00	1.368	0.116	22.2	
Left tilted	40	QPSK 1_1	349000/1745	1:1	0.102	0.12	23.64	25.00	1.368	0.140	22.2	
Right cheek	40	QPSK 1_1	349000/1745	1:1	0.134	-0.13	23.64	25.00	1.368	0.183	22.2	
Right tilted	40	QPSK 1_1	349000/1745	1:1	0.142	-0.02	23.64	25.00	1.368	0.194	22.2	
			ŀ	lead T	est data(5	0%RB)						
Left cheek	40	QPSK 108_54	349000/1745	1:1	0.095	0.03	23.62	25.00	1.374	0.131	22.2	
Left tilted	40	QPSK 108_54	349000/1745	1:1	0.113	0.19	23.62	25.00	1.374	0.155	22.2	
Right cheek	40	QPSK 108_54	349000/1745	1:1	0.143	-0.15	23.62	25.00	1.374	0.196	22.2	
Right tilted	40	QPSK 108_54	349000/1745	1:1	0.162	-0.15	23.62	25.00	1.374	0.223	22.2	
			Body worr	Test	data(Sepa	rate 15mr	m 1RB)		·			
Front side	40	QPSK 1_1	349000/1745	1:1	0.084	0.15	23.64	25.00	1.368	0.115	22.2	
Back side	40	QPSK 1_1	349000/1745	1:1	0.240	0.05	23.64	25.00	1.368	0.328	22.2	
			Body worn 7	Test da	ita (Separa	ate 15mm	50%RB)					
Front side	40	QPSK 108_54	349000/1745	1:1	0.070	0.18	23.62	25.00	1.374	0.096	22.2	
Back side	40	QPSK 108_54	349000/1745	1:1	0.216	0.06	23.62	25.00	1.374	0.297	22.2	
			Hotspot [*]	Test da	ata(Separa	ate 10mm	1RB)					
Front side	40	QPSK 1_1	349000/1745	1:1	0.133	0.06	23.64	25.00	1.368	0.182	22.2	
Back side	40	QPSK 1_1	349000/1745	1:1	0.470	0.04	23.64	25.00	1.368	0.643	22.2	
Left side	40	QPSK 1_1	349000/1745	1:1	0.326	-0.10	23.64	25.00	1.368	0.446	22.2	
Top side	40	QPSK 1_1	349000/1745	1:1	0.107	0.02	23.64	25.00	1.368	0.146	22.2	
Hotspot Test data (Separate 10mm 50%RB)												
Front side	40	QPSK 108_54	349000/1745	1:1	0.123	-0.14	23.62	25.00	1.374	0.169	22.2	
Back side	40	QPSK 108_54	349000/1745	1:1	0.455	0.01	23.62	25.00	1.374	0.625	22.2	
Left side	40	QPSK 108_54	349000/1745	1:1	0.285	0.15	23.62	25.00	1.374	0.392	22.2	
Top side	40	QPSK 108_54	349000/1745	1:1	0.105	-0.09	23.62	25.00	1.374	0.144	22.2	

Test Position	Channel/ Frequency	Measured SAR	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)
Right tilted	349000/1745	0.891	0.886	1.005643341	N/A	N/A

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

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

Test Position	Channel/ Frequency	Measured SAR	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated	
	(MHz)	(10g)	SAR (10g)		SAR (10g)	SAR (10g)	
Top side	349000/1745	2.28	2.21	1.031674208	N/A	N/A	

Note: 1) When the original highest measured SAR is ≥ 2.0 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 ≥ 3.63 W/kg (~ 10% from the 1-g SAR limit).



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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 \geq 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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3) A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 3.75 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 < 2.0 W/kg

Table 35: SAR of 5G NR n66 for Head and Body(original report No:SEWM2311000466RG09).

	SA N66 SAR Test Record											
	Ant3 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)		Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)	
			Head (Receiv	er on) Tes	t data(50	%RB)					
Right tilted	40	QPSK 108_54	349000/1745	1:1	0.682	0.10	17.05	18.00	1.245	0.849	22.3	
			Body worn	Test o	lata(Separ	ate 15mm	n 50%RB)					
Back side	40	QPSK 108_54	349000/1745	1:1	0.582	0.19	23.66	25.00	1.361	0.792	22.3	
			Hotspot on	Test d	lata (Sepai	rate 10mr	n 50%RB)					
Top side	40	QPSK 108_54	349000/1745	1:1	0.578	0.01	21.09	22.00	1.233	0.713	22.3	
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)10- g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)		Scaled 10- g SAR(W/kg)		
	Product specific (Sensor on) 10g SAR Test data (Separate 0mm 1RB)											
Top side	40	QPSK 1_1	349000/1745	1:1	2.260	0.08	23.20	24.00	1.202	2.717	22.3	

Test Position	Channel/ Frequency	Measured SAR	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	(10g)	SAR (10g)		SAR (10g)	SAR (10g)
Top side	349000/1745	2.26	2.22	1.01801802	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 2.0 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 ≥ 3.63 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 ≥ 3.75 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 < 2.0 W/kg

Table 36: SAR of 5G NR n66 for Head and Body(Variant).



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9.2.19 SAR Result of 5G NR n70

SA N70 SAR Test Record											
					Ant3 Te	st 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.(℃)
			•	Head	(Receiver	on) Test da	ta(1RB)				•
Left cheek	15	QPSK 1_1	340500/1702.5	1:1	0.460	-0.12	18.66	19.50	1.213	0.558	22.2
Left tilted	15	QPSK 1_1	340500/1702.5	1:1	0.496	-0.04	18.66	19.50	1.213	0.602	22.2
Right cheek	15	QPSK 1_1	340500/1702.5	1:1	0.670	-0.01	18.66	19.50	1.213	0.813	22.2
Right tilted	15	QPSK 1_1	340500/1702.5	1:1	0.715	0.14	18.66	19.50	1.213	0.868	22.2
				Head (F	Receiver or	n) Test data	a(50%RB)				
Left cheek	15	QPSK 36_22	340500/1702.5	1:1	0.499	0.14	18.58	19.50	1.236	0.617	22.2
Left tilted	15	QPSK 36_22	340500/1702.5	1:1	0.517	0.07	18.58	19.50	1.236	0.639	22.2
Right cheek	15	QPSK 36_22	340500/1702.5	1:1	0.688	-0.10	18.58	19.50	1.236	0.850	22.2
Right tilted	15	QPSK 36_22	340500/1702.5	1:1	0.730	0.05	18.58	19.50	1.236	0.902	22.2
				Head (R	Receiver on) Test data	(100%RB)				
Right cheek	15	QPSK 75_0	340500/1702.5	1:1	0.610	-0.10	18.52	19.50	1.253	0.764	22.2
Right tilted	15	QPSK 75_0	340500/1702.5	1:1	0.676	0.05	18.52	19.50	1.253	0.847	22.2
				Body wor	n Test data	(Separate	15mm 1RB)				
Front side	15		340500/1702.5	1:1	0.309	0.11	23.55	24.50	1.245	0.385	22.2
Back side	15	QPSK 1_1	340500/1702.5	1:1	0.422	-0.03	23.55	24.50	1.245	0.525	22.2
			t I	-			5mm 50%RB)				_
Front side			340500/1702.5	1:1	0.311	0.02	23.48	24.50	1.265	0.393	22.2
Back side	15	QPSK 36_22	340500/1702.5	1:1	0.453	0.01	23.48	24.50	1.265	0.573	22.2
							10mm 1RB)				
Front side	15		340500/1702.5	1:1	0.529	-0.16	23.11	24.00	1.227	0.649	22.2
Back side	15	QPSK 1_1	340500/1702.5	1:1	0.785	-0.14	23.11	24.00	1.227	0.964	22.2
Left side	15	_	340500/1702.5	1:1	0.250	-0.13	23.11	24.00	1.227	0.307	22.2
Right side	15		340500/1702.5	1:1	0.103	0.06	23.11	24.00	1.227	0.126	22.2
Top side	15	QPSK 1_1	340500/1702.5	1:1	0.757	-0.01	23.11	24.00	1.227	0.929	22.2
				tspot on			0mm 50%RB)				_
Front side		_	340500/1702.5	1:1	0.491	-0.05	23.04	24.00	1.247	0.612	22.2
Back side			340500/1702.5	1:1	0.788	0.02	23.04	24.00	1.247	0.983	22.2
Left side			340500/1702.5	1:1	0.283	0.11	23.04	24.00	1.247	0.353	22.2
Right side			340500/1702.5	1:1	0.105	0.07	23.04	24.00	1.247	0.131	22.2
Top side	15	QPSK 36_22	340500/1702.5	1:1	0.778	0.07	23.04	24.00	1.247	0.970	22.2
				spot on 7	Test data (S	Separate 10	0mm 100%RB)				_
Back side	15		340500/1702.5	1:1	0.755	0.09	22.52	23.50	1.253	0.946	22.2
Top side	15		340500/1702.5	1:1	0.730	0.17	22.52	23.50	1.253	0.915	22.2

Table 37: SAR of 5G NR n70 for Head and Body(original report No:SEWM2311000466RG09).

	SA N70 SAR Test Record												
Ant3 Test Record													
Test position BW. Modulation Test ch./Freq. Duty Cycle SAR (W/kg) 1-g Conducted Power(dBm) Tune up Limit(dBm) Scaled factor SAR 1-g (W/kg) Temp.(℃)													
				Head (Receiver o	n) Test dat	a(50%RB)						
Right tilted	15	QPSK 36_22	340500/1702.5	1:1	0.730	0.05	18.58	19.50	1.236	0.902	22.2		
			Во	ody worn	Test data (Separate '	15mm 50%RB)	1					
Back side 15 QPSK 36_22 340500/1702.5 1:1 0.453 0.01 23.48 24.50 1.265 0.573 22.2													
	Hotspot on Test data (Separate 10mm 50%RB)												
Back side	15	QPSK 36_22	340500/1702.5	1:1	0.788	0.02	23.04	24.00	1.247	0.983	22.2		



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Test Position	Channel/ Frequency	Measured SAR	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)
Right tilted	340500/1702.5	0.957	0.942	1.015923567	N/A	N/A

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

9.2.20 SAR Result of 5G NR n71

	SA N71 SAR Test Record												
					Ant0 Te	st 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.(℃)		
					Head Tes	t data(1RE	3)						
Left cheek	20	QPSK 1_1	136100/680.5	1:1	0.168	-0.03	23.65	25.00	1.365	0.229	22.2		
Left tilted	20	QPSK 1_1	136100/680.5	1:1	0.118	0.16	23.65	25.00	1.365	0.161	22.2		
Right cheek	20	QPSK 1_1	136100/680.5	1:1	0.226	0.05	23.65	25.00	1.365	0.308	22.2		
Right tilted	20	QPSK 1_1	136100/680.5	1:1	0.134	-0.16	23.65	25.00	1.365	0.183	22.2		
					Head Test	data(50%F	RB)						
Left cheek	20	QPSK 50_28	136100/680.5	1:1	0.196	0.04	23.61	25.00	1.377	0.270	22.2		
Left tilted	20	QPSK 50_28	136100/680.5	1:1	0.135	-0.10	23.61	25.00	1.377	0.186	22.2		
Right cheek	20	QPSK 50_28	136100/680.5	1:1	0.257	0.03	23.61	25.00	1.377	0.354	22.2		
Right tilted	20	QPSK 50_28	136100/680.5	1:1	0.136	0.09	23.61	25.00	1.377	0.187	22.2		
				Body wo	rn Test data	(Separate	15mm 1RB)						
Front side	20	QPSK 1_1	136100/680.5	1:1	0.245	-0.01	23.65	25.00	1.365	0.334	22.2		
Back side	20	QPSK 1_1	136100/680.5	1:1	0.344	0.04	23.65	25.00	1.365	0.469	22.2		
			В	ody worn	Test data(S	Separate 1	5mm 50%RB)						
Front side	20	QPSK 50_28	136100/680.5	1:1	0.270	0.19	23.61	25.00	1.377	0.372	22.2		
Back side	20	QPSK 50_28	136100/680.5	1:1	0.370	0.06	23.61	25.00	1.377	0.510	22.2		
				Hotspo	t Test data(Separate 1	0mm 1RB)						
Front side	20	QPSK 1_1	136100/680.5	1:1	0.279	0.10	23.65	25.00	1.365	0.381	22.2		
Back side	20	QPSK 1_1	136100/680.5	1:1	0.441	0.09	23.65	25.00	1.365	0.602	22.2		
Left side	20	QPSK 1_1	136100/680.5	1:1	0.000	0.00	23.65	25.00	1.365	0.000	22.2		
Right side	20	QPSK 1_1	136100/680.5	1:1	0.055	0.16	23.65	25.00	1.365	0.075	22.2		
Bottom side	20	QPSK 1_1	136100/680.5	1:1	0.266	0.03	23.65	25.00	1.365	0.363	22.2		
				Hotspot T	Test data (S	eparate 10	mm 50%RB)						
Front side	20		136100/680.5	1:1	0.297	-0.03	23.61	25.00	1.377	0.409	22.2		
Back side	20		136100/680.5	1:1	0.463	-0.05	23.61	25.00	1.377	0.638	22.2		
Left side	20		136100/680.5	1:1	0.000	0.00	23.61	25.00	1.377	0.000	22.2		
Right side	20		136100/680.5	1:1	0.044	0.01	23.61	25.00	1.377	0.061	22.2		
Bottom side	20	QPSK 50_28	136100/680.5	1:1	0.316	0.08	23.61	25.00	1.377	0.435	22.2		

Table 39: SAR of 5G NR n71 for Head and Body.



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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 \geq 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

Table 38: SAR of 5G NR n70 for Head and Body(Variant).



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9.2.21 SAR Result of 5G NR n48

				SAI	N48 SAR To	est Record	d				
				4	Ant4 Test F	Record					
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg)	Power drift	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g	Liquid Temp.(℃)
			1		1-g	(dB)	ì	` '		(W/kg)	
l aft ala a l	10	ODCK 4 4			eceiver on)			40.00	4 400	4.040	20.4
Left cheek	40	_	641666/3624.99		0.849	0.14	17.21	18.00	1.199	1.018	22.1
Left cheek	40	QPSK 1_1	638000/3570	1:1	0.763	-0.13	17.14	18.00	1.219	0.930	22.1
Left cheek	40		645332/3679.98	1:1	0.810	0.11	17.19	18.00	1.205	0.976	22.1
Left tilted	40		641666/3624.99	1:1	0.715	-0.18	17.21	18.00	1.199	0.858	22.1
Left tilted	40	QPSK 1_1	638000/3570	1:1	0.637	-0.06	17.14	18.00	1.219	0.776	22.1
Left tilted	40		645332/3679.98	1:1	0.667	0.17	17.19	18.00	1.205	0.804	22.1
Right cheek	40	_	641666/3624.99	1:1	0.625	0.05	17.21	18.00	1.199	0.750	22.1
Right tilted	40	QPSK 1_1	641666/3624.99	1:1	0.577	0.15	17.21	18.00	1.199	0.692	22.1
l eft else els	40	0001/ 50 00			eiver on) T	1		40.00	4 040	4.000	00.4
Left cheek			641666/3624.99	1:1	0.831	-0.18	17.16	18.00	1.213	1.008	22.1
Left cheek		QPSK 50_28		1:1	0.745	0.06	17.10	18.00	1.230	0.917	22.1
Left cheek			645332/3679.98	1:1	0.786	-0.01	17.13	18.00	1.222	0.960	22.1
Left tilted			641666/3624.99	1:1	0.921	-0.01	17.16	18.00	1.213	1.118	22.1
Left tilted			638000/3570	1:1	0.783	-0.07	17.10	18.00	1.230	0.963	22.1
Left tilted			645332/3679.98	1:1	0.840	0.02	17.13	18.00	1.222	1.026	22.1
Left tilted - Repeat			641666/3624.99	1:1	0.908	0.09	17.16	18.00	1.213	1.102	22.1
Right cheek	_		641666/3624.99	1:1	0.604	-0.14	17.16	18.00	1.213	0.733	22.1
Right tilted	40	QPSK 50_28	641666/3624.99	1:1	0.577	-0.10	17.16	18.00	1.213	0.700	22.1
					eiver on) Te					I	
Left cheek			641666/3624.99	1:1	0.763	-0.12	17.09	18.00	1.233	0.941	22.1
Left tilted	40	QPSK 100_0	641666/3624.99	1:1	0.691	-0.10	17.09	18.00	1.233	0.852	22.1
		T	·		est data(Se	ĺ	1		1	T	
Front side	40		641666/3624.99		0.227	0.02	23.24	24.50	1.337	0.303	22.1
Back side	40	QPSK 1_1	641666/3624.99		0.436	-0.03	23.24	24.50	1.337	0.583	22.1
		00011 -0 00			st data(Sep			21.52			
Front side	_		641666/3624.99		0.249	0.03	23.23	24.50	1.340	0.334	22.1
Back side	40	QPSK 50_28	641666/3624.99	1:1	0.442	0.01	23.23	24.50	1.340	0.592	22.1
	10	00014.4			est data(Se	Ť .		00.50	4 400	0.000	00.4
Front side	40		641666/3624.99		0.524	-0.01	22.71	23.50	1.199	0.629	22.1
Back side	40		641666/3624.99	1:1	0.897	0.07	22.71	23.50	1.199	1.076	22.1
Back side	40	QPSK 1_1	638000/3570	1:1	0.717	-0.12	22.63	23.50	1.222	0.876	22.1
Back side	40		645332/3679.98	1:1	0.817	-0.16	22.66	23.50	1.213	0.991	22.1
Left side	40		641666/3624.99		0.284	0.19	22.71	23.50	1.199	0.341	22.1
Right side	40		641666/3624.99	1:1	0.315	0.18	22.71	23.50	1.199	0.378	22.1
Top side	40		641666/3624.99	1:1	0.832	-0.18	22.71	23.50	1.199	0.998	22.1
Top side	40	QPSK 1_1	638000/3570	1:1	0.645	0.08	22.63	23.50	1.222	0.788	22.1
Top side	40	QPSK 1_1	645332/3679.98	1	0.760	-0.14	22.66	23.50	1.213	0.922	22.1
Encore 11	40	0001/ 50 00					m 50%RB)	00.50	4.005	0.540	00.4
Front side			641666/3624.99		0.430	0.12	22.69	23.50	1.205	0.518	22.1
Back side			641666/3624.99		0.803	-0.16	22.69	23.50	1.205	0.968	22.1
Back side			638000/3570	1:1	0.645	0.12	22.60	23.50	1.230	0.794	22.1
Back side			645332/3679.98		0.675	-0.07	22.59	23.50	1.233	0.832	22.1
Left side			641666/3624.99		0.224	-0.02	22.69	23.50	1.205	0.270	22.1
Right side	_		641666/3624.99		0.180	0.16	22.69	23.50	1.205	0.217	22.1
Top side	40	WPSK 50_28	641666/3624.99		0.550	0.04	22.69	23.50	1.205	0.663	22.1
Deals -1-1-	40	ODCK 400 0					m 100%RB)	00.50	4.040	0.005	00.4
Back side	40	100_0	641666/3624.99	1:1	0.745	0.17	22.56	23.50	1.242	0.925	22.1



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Top side	40	QPSK 100_0	641666/3624.99	1:1	0.637	0.08	22.56	23.50	1.242	0.791	22.1
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)10- g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)		Scaled 10-g SAR(W/kg)	Liquid Temp.
	•	Pi	roduct specific (S	ensor o	n) 10g SAR	Test data	(Separate 0n	nm 1RB)		•	
Back side	40	QPSK 1_1	641666/3624.99	1:1	2.360	0.01	20.62	21.50	1.225	2.890	22.1
Back side	40	QPSK 1_1	638000/3570	1:1	2.240	0.06	20.54	21.50	1.247	2.794	22.1
Back side	40	QPSK 1_1	645332/3679.98	1:1	2.290	-0.11	20.57	21.50	1.239	2.837	22.1
Back side - Repeat	40	QPSK 1_1	641666/3624.99	1:1	2.290	0.02	20.62	21.50	1.225	2.804	22.1
Top side	40	QPSK 1_1	641666/3624.99	1:1	1.010	0.19	20.62	21.50	1.225	1.237	22.1
		Pro	duct specific (Se	nsor on) 10g SAR ⁻	Test data (Separate 0mr	n 50%RB)			
Back side	40	QPSK 50_28	641666/3624.99	1:1	2.040	0.11	20.55	21.50	1.245	2.539	22.1
Back side	40	QPSK 50_28	638000/3570	1:1	1.960	0.04	20.51	21.50	1.256	2.462	22.1
Back side	40	QPSK 50_28	645332/3679.98	1:1	1.990	-0.01	20.53	21.50	1.250	2.488	22.1
Top side	40	QPSK 50_28	641666/3624.99	1:1	1.140	0.10	20.55	21.50	1.245	1.419	22.1
		Prod	duct specific (Ser	sor on)	10g SAR T	est data (S	Separate 0mm	100%RB)			
Back side	40	QPSK 100_0	641666/3624.99	1:1	1.970	-0.03	20.52	21.50	1.253	2.469	22.1
			Product	specific	c (Sensor of	ff) 10g SAF	R Test data				
Back side-18mm	40	QPSK 1_1	641666/3624.99	1:1	0.165	0.01	23.24	24.50	1.337	0.221	22.1
Top side-17mm			641666/3624.99	1:1	0.237	0.05	23.23	24.50	1.340	0.318	22.1

Table 40: SAR of 5G NR n48 for Head and Body.

Test Position	Channel/ Frequency	Measured SAR 1st Repeated		Ratio	2 nd Repeated	3 rd Repeated	
Test Fosition	(MHz)	(1g)	SAR (1g)	Ratio	SAR (1g)	SAR (1g)	
Left tilted	641666/3624.99	0.921	0.908	1.014317181	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 \geq 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

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

Test Position	Channel/ Frequency	Measured SAR	1 st Repeated	Datia	2 nd Repeated	3 rd Repeated
lest Position	(MHz)	(10g)	SAR (10g)	Ratio	SAR (10g)	SAR (10g)
Back side	641666/3624.99	2.36	2.29	1.030567686	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 2.0 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 ≥ 3.63 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 ≥ 3.75 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 < 2.0 W/kg



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

Test position BW. Modulation Test ch./Freq. Duty Cycle (W/kg) Cycle					SA N7	77 SAR Te	st Record					
Test position												
Head (Receiver on) Test data(50%RB) Left cheek 100 QPSK 1.1 633334/3500 1.1 0.887 0.07 16.86 17.50 1.205 1.081 22.3						ı			_	I	Scaled	
Head (Receiver on) Test data(1RB)	Test position	BW.	Modulation	Test ch./Freq.		(W/kg)	drift				SAR 1-g	Temp.(℃)
Left tilted 100 QPSK 1.1 633334/3500 1:1 0.862 0.16 16.69 17.50 1.205 1.039 22.3 Right tilted 100 QPSK 1.1 633334/3500 1:1 0.661 0.18 16.69 17.50 1.205 0.791 22.3 Head (Receiver on) Test data(50*KR) Left cheek PC38PC2 100 QPSK 136.69 633334/3500 1:1 0.811 0.18 16.69 17.50 1.206 1.205 0.796 22.3 Left tilted 100 QPSK 136.69 633334/3500 1:1 0.811 0.911 0.070 16.68 17.50 1.208 1.100 22.3 Left tilted 100 QPSK 136.69 633334/3500 1:1 0.895 0.017 16.68 17.50 1.208 0.839 22.3 Right tilted 100 QPSK 136.69 633334/3500 1:1 0.895 0.017 16.68 17.50 1.208 0.839 22.3 Right tilted 100 QPSK 136.69 633334/3500 1:1 0.895 0.017 16.68 17.50 1.208 0.859 22.3 Left tilted 100 QPSK 135.69 633334/3500 1:1 0.827 0.09 16.68 17.50 1.208 0.839 22.3 Right tilted 100 QPSK 270 0 633334/3500 1:1 0.827 0.09 16.62 17.50 1.208 0.752 22.3 Left tilted 100 QPSK 270 0 633334/3500 1:1 0.827 0.09 16.62 17.50 1.253 0.066 22.3 Left tilted 100 QPSK 270 0 633334/3500 1:1 0.827 0.09 16.62 17.50 1.253 0.668 22.3 Left tilted 100 QPSK 270 0 633334/3500 1:1 0.827 0.09 16.652 17.50 1.253 0.668 22.3 Body worn Test data(Separate 15mm 1RB) Front side 100 QPSK 1.1 633334/3500 1:1 0.240 0.02 23.59 24.50 1.233 0.284 22.3 Back side PC3 100 QPSK 1.1 633334/3500 1:1 0.415 0.01 23.59 24.50 1.233 0.512 22.3 Back side PC2 100 QPSK 1.3 6.69 63334/3500 1:1 0.426 0.01 23.56 24.50 1.242 0.302 22.3 Back side PC2 100 QPSK 1.3 6.69 63334/3500 1:1 0.428 0.01 23.56 24.50 1.242 0.302 22.3 Back side PC2 100 QPSK 1.3 6.69 63334/3500 1:1 0.428 0.01 23.56 24.50 1.242 0.302 22.3 Back side PC2 100 QPSK 1.3 6.69 63334/3500 1:1 0.428 0.01 23.56 24.50 1.242 0.302 22.3 Back side PC2 100 QPSK 1.3 6.69 63334/3500 1:1 0.428 0.01 23.50 1.240 0.255 0				He	ad (Red	eiver on) T	est data(1	RB)				
Right cheek	Left cheek	100	QPSK 1_1	633334/3500	1:1	0.897	0.07	16.69	17.50	1.205	1.081	22.3
Right tilted		100	QPSK 1_1	633334/3500	1:1	0.862	0.16	16.69	17.50	1.205	1.039	22.3
Head Receiver on Test data(Separate 15mm 100 120 1.100 22.3	Right cheek	100	QPSK 1_1	633334/3500	1:1	0.656	0.06	16.69	17.50	1.205	0.791	22.3
Left cheek PC38PC2 100 OPSK 135, 68 633334/3500 1:1 0.911 -0.07 16.68 17.50 1.208 1.066 22.3 Left tilted	Right tilted	100	QPSK 1_1	633334/3500					17.50	1.205	0.736	22.3
Left tilled				Head	d (Rece	iver on) Te	st data(50	%RB)				
Right cheek 100 QPSK 135_69 633334/5500 1:1 0.695	Left cheek PC3&PC2				1:1	0.911	-0.07	16.68	17.50	1.208	1.100	22.3
Right tilted					1:1	0.883	-0.07	16.68	17.50	1.208	1.066	22.3
Helad (Receiver on) Test data(100%RB)	Right cheek	100	QPSK 135_69	633334/3500	1:1	0.695	0.17	16.68	17.50	1.208	0.839	22.3
Left cheek 100 QPSK 270_0 633334/3500 1:1 0.827 -0.09 16.52 17.50 1.253 1.036 22.3 Left tilted 100 QPSK 270_0 633334/3500 1:1 0.771 0.18 16.52 17.50 1.253 0.966 22.3 Right cheek 100 QPSK 270_0 633334/3500 1:1 0.541 -0.19 16.52 17.50 1.253 0.678 22.3 Body worn Test data(Separate 15mm 1RB) Front side 100 QPSK 1_1 633334/3500 1:1 0.230 0.02 23.59 24.50 1.233 0.284 22.3 Back side 100 QPSK 1_1 633334/3500 1:1 0.415 0.01 23.59 24.50 1.233 0.512 22.3 Back side 100 QPSK 1_36 69 633334/3500 1:1 0.415 0.01 23.59 24.50 1.233 0.512 22.3 Back side PC3 100 QPSK 135 69 633334/3500 1:1 0.428 -0.01 23.56 24.50 1.242 0.302 22.3 Back side PC2 100 QPSK 156 69 633334/3500 1:1 0.706 0.03 26.37 27.50 1.297 0.916 22.3 Back side PC2 100 QPSK 270_0 633334/3500 1:1 0.593 0.02 25.38 26.50 1.294 0.767 22.3 Back side PC3 100 QPSK 1_1 633334/3500 1:1 0.593 0.02 25.38 26.50 1.294 0.767 22.3 Back side PC3 100 QPSK 1_1 633334/3500 1:1 0.891 0.16 21.73 22.50 1.194 0.505 22.3 Back side PC3 100 QPSK 1_1 633334/3500 1:1 0.891 0.16 21.73 22.50 1.194 0.064 22.3 Left side 100 QPSK 1_1 633334/3500 1:1 0.891 0.16 21.73 22.50 1.194 0.0172 22.3 Top side 100 QPSK 1_1 633334/3500 1:1 0.706 0.03 21.73 22.50 1.194 0.0172 22.3 Top side 100 QPSK 1_1 633334/3500 1:1 0.706 0.00 21.73 22.50 1.194 0.7172 22.3 Hotspot on Test data (Separate 10mm 50%RB) Front side 100 QPSK 1_1 633334/3500 1:1 0.891 0.16 21.73 22.50 1.194 0.172 22.3 Top side 100 QPSK 1_56 69 633334/3500 1:1 0.706 0.05 21.73 22.50 1.194 0.318 22.3 Top side 100 QPSK 1_56 69 633334/3500 1:1 0.706 0.00 21.73 22.50 1.194 0.7172 22.3 Back side PC3&PC2 100 QPSK 1_56 69 633334/3500 1:1 0.706 0.00 21.67 22.50 1.211 0.119 22.3 Back side PC3&PC2 100 QPSK 1_56 69 633334/3500 1:1 0.706 0.00 21.67 22.50 1.211 0.119 22.3 Back side PC3&PC2 100 QPSK 1_56 69 633334/3500 1:1 0.706 0.00 2 21.67 22.50 1.211 0.553 22.3 Top side 100 QPSK 1_56 69 633334/3500 1:1 0.706 0.00 2 21.67 22.50 1.211 0.553 22.3 Top side 100 QPSK 1_56 69 633334/3500 1:1 0.706 0.00 2 21.67 22.50 1.211 0.553 22.3 Top side 100 Q	Right tilted	100	QPSK 135_69						17.50	1.208	0.752	22.3
Left tilted					(Recei	ver on) Tes	t data(100)%RB)				
Right cheek	Left cheek			633334/3500	1:1	0.827	-0.09	16.52	17.50	1.253	1.036	22.3
Body worn Test data(Separate 15mm 1RB)	Left tilted	100	QPSK 270_0	633334/3500	1:1	0.771	0.18	16.52	17.50	1.253	0.966	22.3
Front side	Right cheek	100	QPSK 270_0	633334/3500	1:1	0.541	-0.19	16.52	17.50	1.253	0.678	22.3
Back side					orn Te	st data(Sep	arate 15m	nm 1RB)				
Body wom Test data(Separate 15mm 50%RB) Front side	Front side	100		633334/3500	1:1	0.230	0.02	23.59	24.50	1.233	0.284	22.3
Front side	Back side	100	QPSK 1_1	633334/3500	1:1	0.415	0.01	23.59	24.50	1.233	0.512	22.3
Back side PC3 100 QPSK 135_69 633334/3500 1:1 0.428 -0.01 23.56 24.50 1.242 0.531 22.3 Back side PC2 100 QPSK 135_69 633334/3500 1:1 0.706 0.03 26.37 27.50 1.294 0.916 22.3 Back side PC2 100 QPSK 270_0 633334/3500 1:1 0.593 0.02 25.38 26.50 1.294 0.767 22.3 Hotspot on Test data(Separate 10mm 1RB) Front side 100 QPSK 1_1 633334/3500 1:1 0.423 -0.19 21.73 22.50 1.194 0.505 22.3 Back side 100 QPSK 1_1 633334/3500 1:1 0.444 -0.03 21.73 22.50 1.194 0.050 22.3 Right side 100 QPSK 1_1 633334/3500 1:1 0.779 -0.05 21.73 22.50 1.194 0.012 22.3 Top side 100 QPSK 135_69				Body wo	rn Test	data(Sepa	rate 15mn	n 50%RB)				
Back side PC2	Front side	100	QPSK 135_69	633334/3500	1:1	0.243	0.03	23.56	24.50	1.242	0.302	22.3
Body wom Test data(Separate 15mm 100%RB) Back side PC2 100 QPSK 270_0 633334/3500 1:1 0.593 0.02 25.38 26.50 1.294 0.767 22.3 Hotspot on Test data(Separate 10mm 1RB) Front side 100 QPSK 1_1 633334/3500 1:1 0.423 -0.19 21.73 22.50 1.194 0.505 22.3 Back side 100 QPSK 1_1 633334/3500 1:1 0.891 -0.16 21.73 22.50 1.194 1.064 22.3 Left side 100 QPSK 1_1 633334/3500 1:1 0.266 0.10 21.73 22.50 1.194 0.172 22.3 Right side 100 QPSK 1_1 633334/3500 1:1 0.266 0.10 21.73 22.50 1.194 0.318 22.3 Top side 100 QPSK 1_1 633334/3500 1:1 0.766 0.10 21.73 22.50 1.194 0.930 22.3 Hotspot on Test data (Separate 10mm 50%RB) Front side 100 QPSK 135_69 633334/3500 1:1 0.505 -0.04 21.67 22.50 1.194 0.930 22.3 Back side PC38PC2 100 QPSK 135_69 633334/3500 1:1 0.982 0.01 21.67 22.50 1.211 0.611 22.3 Back side PC38PC2 100 QPSK 135_69 633334/3500 1:1 0.982 0.01 21.67 22.50 1.211 1.179 22.3 Left side 100 QPSK 135_69 633334/3500 1:1 0.974 0.03 21.67 22.50 1.211 1.179 22.3 Left side 100 QPSK 135_69 633334/3500 1:1 0.974 0.03 21.67 22.50 1.211 1.179 22.3 Right side 100 QPSK 135_69 633334/3500 1:1 0.457 -0.08 21.67 22.50 1.211 0.553 22.3 Top side 100 QPSK 135_69 633334/3500 1:1 0.777 -0.06 21.67 22.50 1.211 0.553 22.3 Top side 100 QPSK 135_69 633334/3500 1:1 0.982 0.00 22.56 22.50 1.211 0.553 22.3 Top side 100 QPSK 135_69 633334/3500 1:1 0.786 0.02 21.56 22.50 1.211 0.553 22.3 Top side 100 QPSK 270_0 633334/3500 1:1 0.889 0.04 21.56 22.50 1.242 0.976 22.3 Top side 100 QPSK 1_1 633334/3500 1:1 0.889 0.04 21.56 22.50 1.242 0.855 22.3 Back side PC3BPC Conducted Tune up Scaled 10 SCAR(W/kg) 5AR (W/kg) 10 D QPSK 1_1 633334/3500 1:1 0.940 0.011 1.972 20.50 1.197 1.006 22.3 Top side 100 QPSK 1_1 633334/3500 1:1 0.940 0.011 1.972 20.50 1.197 1.006 22.3 Top side 100 QPSK 1_1 633334/3500 1:1 0.941 0.06 19.72 20.50 1.197 1.006 22.3 Product specific (Sensor on) 10g SAR Test data (Separate 0mm 18B)	Back side PC3	100	QPSK 135_69	633334/3500	1:1	0.428	-0.01	23.56	24.50	1.242	0.531	22.3
Back side PC2	Back side PC2	100	QPSK 135_69	633334/3500	1:1	0.706	0.03	26.37	27.50	1.297	0.916	22.3
Hotspot on Test data(Separate 10mm 1RB)				Body wor	n Test	data(Separ	ate 15mm	100%RB)				
Front side 100	Back side PC2	100	QPSK 270_0	633334/3500	1:1	0.593	0.02	25.38	26.50	1.294	0.767	22.3
Back side				Hotspo	t on Te	st data(Sep	arate 10m	nm 1RB)				
Left side	Front side	100	QPSK 1_1	633334/3500	1:1	0.423	-0.19	21.73	22.50	1.194	0.505	22.3
Right side	Back side	100	QPSK 1_1	633334/3500	1:1	0.891	-0.16	21.73	22.50	1.194	1.064	22.3
Top side	Left side	100	QPSK 1_1	633334/3500	1:1	0.144	-0.03	21.73	22.50	1.194	0.172	22.3
Hotspot on Test data (Separate 10mm 50%RB) Front side 100 QPSK 135_69 633334/3500 1:1 0.505 -0.04 21.67 22.50 1.211 0.611 22.3 Back side PC3&PC2 100 QPSK 135_69 633334/3500 1:1 0.982 0.01 21.67 22.50 1.211 1.189 22.3 Back side PC3&PC2 - Repeat 100 QPSK 135_69 633334/3500 1:1 0.974 0.03 21.67 22.50 1.211 1.179 22.3 Left side 100 QPSK 135_69 633334/3500 1:1 0.177 -0.06 21.67 22.50 1.211 0.214 22.3 Right side 100 QPSK 135_69 633334/3500 1:1 0.457 -0.08 21.67 22.50 1.211 0.553 22.3 Top side 100 QPSK 135_69 633334/3500 1:1 0.925 -0.02 21.67 22.50 1.211 1.120 22.3 Hotspot on Test data (Separate 10mm 100%RB) Back side 100 QPSK 270_0 633334/3500 1:1 0.786 0.02 21.56 22.50 1.242 0.976 22.3 Top side 100 QPSK 270_0 633334/3500 1:1 0.689 0.04 21.56 22.50 1.242 0.855 22.3 Test position BW. Test mode Test Ch/Freq. Duty Cycle Conducted Drift(dB) Dower(dBm) Limit(dBm) Limit(dBm) Conducted Drift(dB) Conducted D	Right side	100	QPSK 1_1		1:1	0.266	0.10	21.73	22.50	1.194	0.318	22.3
Front side 100 QPSK 135_69 633334/3500 1:1 0.505 -0.04 21.67 22.50 1.211 0.611 22.3 Back side PC3&PC2 100 QPSK 135_69 633334/3500 1:1 0.982 0.01 21.67 22.50 1.211 1.189 22.3 Back side PC3&PC2 - Repeat 100 QPSK 135_69 633334/3500 1:1 0.974 0.03 21.67 22.50 1.211 1.179 22.3 Left side 100 QPSK 135_69 633334/3500 1:1 0.177 -0.06 21.67 22.50 1.211 0.214 22.3 Right side 100 QPSK 135_69 633334/3500 1:1 0.457 -0.08 21.67 22.50 1.211 0.553 22.3 Top side 100 QPSK 135_69 633334/3500 1:1 0.925 -0.02 21.67 22.50 1.211 1.120 22.3 Hotspot on Test data (Separate 10mm 100%RB) Back side 100 QPSK 270_0 633334/3500 1:1 0.786 0.02 21.56 22.50 1.242 0.976 22.3 Top side 100 QPSK 270_0 633334/3500 1:1 0.689 0.04 21.56 22.50 1.242 0.855 22.3 Test position BW. Test mode Test	Top side	100	QPSK 1_1	633334/3500	1:1	0.779	-0.05	21.73	22.50	1.194	0.930	22.3
Back side PC3&PC2 100 QPSK 135_69 633334/3500 1:1 0.982 0.01 21.67 22.50 1.211 1.189 22.3				Hotspot of	on Test	data (Sepa	rate 10mr	n 50%RB)				
Back side PC3&PC2	Front side	100	QPSK 135_69	633334/3500	1:1	0.505	-0.04	21.67	22.50	1.211	0.611	22.3
Left side 100 QPSK 135_69 633334/3500 1:1 0.974 0.05 21.67 22.50 1.211 0.214 22.3	Back side PC3&PC2	100	QPSK 135_69	633334/3500	1:1	0.982	0.01	21.67	22.50	1.211	1.189	22.3
Left side 100 QPSK 135_69 633334/3500 1:1 0.177 -0.06 21.67 22.50 1.211 0.214 22.3 Right side 100 QPSK 135_69 633334/3500 1:1 0.457 -0.08 21.67 22.50 1.211 0.553 22.3 Top side 100 QPSK 135_69 633334/3500 1:1 0.925 -0.02 21.67 22.50 1.211 1.120 22.3 Hotspot on Test data (Separate 10mm 100%RB) Back side 100 QPSK 270_0 633334/3500 1:1 0.786 0.02 21.56 22.50 1.242 0.976 22.3 Test position Test mode Test Ch./Freq. Duty Cycle SAR (W/kg)10- Power Orift(dB) Conducted Drift(dB) Tune up Limit(dBm) Scaled 10- Scaled factor Scaled 10- Scaled factor SCAR(W/kg) SAR(W/kg) SAR (W/kg) SAR (W/kg) SAR (W/kg) SAR (W/kg) SAR (W/kg) SAR (W/kg) SCAR (W/kg) SAR (W/kg) SAR (W/kg) SAR (W/kg) SAR (W/kg)	Back side PC3&PC2 - Repeat	100	QPSK 135_69	633334/3500	1:1	0.974	0.03	21.67	22.50	1.211	1.179	22.3
Right side 100 QPSK 135_69 633334/3500 1:1 0.457 -0.08 21.67 22.50 1.211 0.553 22.3	•	100	QPSK 135 69	633334/3500	1:1	0.177	-0.06	21.67	22.50	1.211	0.214	22.3
Top side 100 QPSK 135_69 633334/3500 1:1 0.925 -0.02 21.67 22.50 1.211 1.120 22.3												
Hotspot on Test data (Separate 10mm 100%RB)					1:1	0.925	-0.02	21.67				22.3
Back side 100 QPSK 270_0 633334/3500 1:1 0.786 0.02 21.56 22.50 1.242 0.976 22.3												
Top side 100 QPSK 270_0 63334/3500 1:1 0.689 0.04 21.56 22.50 1.242 0.855 22.3 Test position BW. Test mode Ch./Freq. Duty Ch./Freq. Power Conducted power(dBm) Limit(dBm) Factor SAR (W/kg) Ch./Freq. Power Conducted power(dBm) Limit(dBm) Factor SAR (W/kg) Ch./Freq. Power Conducted power(dBm) Limit(dBm) Factor SAR (W/kg) Ch./Freq. Power Conducted power(dBm) Linit(dBm) Factor SAR (W/kg) Ch./Freq. Power Conducted Power Ch./Freq. P	Back side	100	QPSK 270_0						22.50	1.242	0.976	22.3
Test position	Top side			633334/3500	1:1	0.689		21.56			0.855	22.3
Product specific (Sensor on) 10g SAR Test data (Separate 0mm 1RB) Back side	Test position	BW.	Test mode		-	SAR (W/kg)10-		Conducted	Tune up	Scaled	g	Tomp
Back side 100 QPSK 1_1 633334/3500 1:1 1.940 -0.11 19.72 20.50 1.197 2.322 22.3 Top side 100 QPSK 1_1 633334/3500 1:1 0.841 -0.06 19.72 20.50 1.197 1.006 22.3 Product specific (Sensor on) 10g SAR Test data (Separate 0mm 50%RB)			Produ	ict specific (Se	nsor on		Test data	(Separate 0m	m 1RB)		er.i.(IIIig)	
Top side 100 QPSK 1_1 633334/3500 1:1 0.841 -0.06 19.72 20.50 1.197 1.006 22.3 Product specific (Sensor on) 10g SAR Test data (Separate 0mm 50%RB)	Back side	100								1.197	2.322	22.3
Product specific (Sensor on) 10g SAR Test data (Separate 0mm 50%RB)												
	. 55 0.00	. 55										
	Back side PC3&PC2	100								1.230	2.448	22.3



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Top side	100	QPSK 135_69	633334/3500	1:1	0.871	-0.13	19.60	20.50	1.230	1.072	22.3	
Product specific (Sensor on) 10g SAR Test data (Separate 0mm 100%RB)												
Back side	100	QPSK 270_0	633334/3500	1:1	1.910	0.04	19.54	20.50	1.247	2.383	22.3	
	Product specific (Sensor off) 10g SAR Test data											
Back side-18mm	100	QPSK 135_69	633334/3500	1:1	0.184	-0.10	23.56	24.50	1.242	0.228	22.3	
Top side-17mm	100	QPSK 135_69	633334/3500	1:1	0.287	-0.12	23.56	24.50	1.242	0.356	22.3	

Table 41: SAR of 5G NR n77(3450~3550) for Head and Body.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Back side	633334/3500	0.982	0.974	1.008213552	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 \geq 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

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

9.2.23 JAN N	-	111 01 00 1	11111101									
					7 SAR Te		<u> </u>					
Test position	BW.	Modulation	Test ch./Freq.	Duty	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.(℃)	
	_		He	ad (Red	eiver on) T	est data(1	RB)					
Left cheek	100	QPSK 1_1	656000/3840	1:1	0.916	-0.16	17.26	18.00	1.186	1.086	22.4	
Left tilted	100	QPSK 1_1	656000/3840	1:1	0.727	0.03	17.26	18.00	1.186	0.862	22.4	
Right cheek	100	QPSK 1_1	656000/3840	1:1	0.586	0.05	17.26	18.00	1.186	0.695	22.4	
Right tilted	100	QPSK 1_1	656000/3840	1:1	0.572	0.08	17.26	18.00	1.186	0.678	22.4	
			Head	d (Rece	iver on) Te	st data(50	%RB)					
Left cheek PC3&PC2	100	QPSK 135_69	656000/3840	1:1	0.946	-0.19	17.16	18.00	1.213	1.148	22.4	
Left cheek PC3&PC2 - Repeat	100	QPSK 135_69	656000/3840	1:1	0.932	0.11	17.16	18.00	1.213	1.131	22.4	
Left tilted	100	QPSK 135_69	656000/3840	1:1	0.747	0.12	17.16	18.00	1.213	0.906	22.4	
Right cheek	100	QPSK 135_69	656000/3840	1:1	0.603	-0.07	17.16	18.00	1.213	0.732	22.4	
Right tilted	100	QPSK 135_69	656000/3840	1:1	0.555	0.06	17.16	18.00	1.213	0.673	22.4	
	Head (Receiver on) Test data(100%RB)											
Left cheek	100	QPSK 270_0	656000/3840	1:1	0.845	0.17	17.13	18.00	1.222	1.032	22.4	
Left tilted	100	QPSK 270_0	656000/3840	1:1	0.683	0.10	17.13	18.00	1.222	0.834	22.4	
			Body v	vorn Tes	st data(Sep	arate 15n	nm 1RB)					
Front side	100	QPSK 1_1	656000/3840	1:1	0.244	0.05	23.65	24.50	1.216	0.297	22.4	
Back side	100	QPSK 1_1	656000/3840	1:1	0.382	0.01	23.65	24.50	1.216	0.465	22.4	
				rn Test	data(Sepa	rate 15mr	n 50%RB)					
Front side	100	QPSK 135_69	656000/3840	1:1	0.351	0.02	23.56	24.50	1.242	0.436	22.4	
Back side PC3	100	QPSK 135_69	656000/3840	1:1	0.442	0.08	23.56	24.50	1.242	0.549	22.4	
Back side PC2	100	QPSK 135_69	656000/3840	1:1	0.929	0.09	26.43	27.50	1.279	1.189	22.4	
			Body wo	n Test	data(Separ	ate 15mm	100%RB)					
Back side PC2	100	QPSK 270_0		1:1	0.746	0.01	25.33	26.50	1.309	0.977	22.4	
			Hotsp	ot Test	data(Sepa	rate 10mr	n 1RB)					
Front side	100		656000/3840	1:1	0.499	-0.18	23.65	24.50	1.216	0.607	22.4	
Back side	100	QPSK 1_1	656000/3840	1:1	0.714	0.13	23.65	24.50	1.216	0.868	22.4	
Left side	100	QPSK 1_1	656000/3840	1:1	0.161	0.02	23.65	24.50	1.216	0.196	22.4	
Right side	100	QPSK 1_1	656000/3840	1:1	0.127	-0.14	23.65	24.50	1.216	0.154	22.4	



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Top side	100	QPSK 1 1	656000/3840	1:1	0.511	0.14	23.65	24.50	1.216	0.621	22.4		
Top side	100	QFSK I_I						24.50	1.210	0.021	22.4		
Hotspot Test data (Separate 10mm 50%RB)													
Front side	100	QPSK 135_69	656000/3840	1:1	0.739	0.16	23.56	24.50	1.242	0.918	22.4		
Back side PC3&PC2	100	QPSK 135_69	656000/3840	1:1	0.891	0.03	23.56	24.50	1.242	1.106	22.4		
Left side	100	QPSK 135_69	656000/3840	1:1	0.186	-0.15	23.56	24.50	1.242	0.231	22.4		
Right side	100	QPSK 135_69	656000/3840	1:1	0.172	-0.19	23.56	24.50	1.242	0.214	22.4		
Top side	100	QPSK 135_69	656000/3840	1:1	0.771	0.04	23.56	24.50	1.242	0.957	22.4		
	Hotspot Test data (Separate 10mm 100%RB)												
Front side	100	QPSK 270_0	656000/3840	1:1	0.608	-0.15	23.56	24.50	1.242	0.755	22.4		
Back side	100	QPSK 270_0	656000/3840	1:1	0.722	0.15	22.59	23.50	1.233	0.890	22.4		
Top side	100	QPSK 270_0	656000/3840	1:1	0.572	0.03	22.59	23.50	1.233	0.705	22.4		

Table 42: 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 cheek	656000/3840	0.946	0.932	1.015021459	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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9.2.24 SAR Result of WIFI 2.4G

	Wi-Fi 2.4G SAR Test Record													
	Ant5 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.(℃)			
	Head Test Data													
Left cheek	802.11b	6/2437	100.00%	1.000	0.304	0.02	10.59	11.50	1.233	0.375	22.2			
Left tilted	802.11b	6/2437	100.00%	1.000	0.198	0.17	10.59	11.50	1.233	0.244	22.2			
Right cheek	802.11b	6/2437	100.00%	1.000	0.109	0.12	10.59	11.50	1.233	0.134	22.2			
Right tilted	802.11b	6/2437	100.00%	1.000	0.096	0.02	10.59	11.50	1.233	0.118	22.2			
				Body worn	Test data	(Separate 1	15mm)							
Front side	802.11b	6/2437	100.00%	1.000	0.175	0.14	20.52	21.50	1.253	0.219	22.2			
Back side	802.11b	6/2437	100.00%	1.000	0.285	0.04	20.52	21.50	1.253	0.357	22.2			
				Hotspot T	est data (Separate 10	Omm)							
Front side	802.11b	6/2437	100.00%	1.000	0.182	-0.08	15.88	16.50	1.153	0.210	22.2			
Back side	802.11b	6/2437	100.00%	1.000	0.311	0.11	15.88	16.50	1.153	0.359	22.2			
Right side	802.11b	6/2437	100.00%	1.000	0.157	0.10	15.88	16.50	1.153	0.181	22.2			
Top side	802.11b	6/2437	100.00%	1.000	0.255	0.13	15.88	16.50	1.153	0.294	22.2			

Table 43: 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.



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9.2.25 SAR Result of WIFI 5G

					i 5G SAR T		d				
					Ant5 Test F	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.(℃)
	,				eiver on) Te	st data of L					
Left cheek	802.11a	64/5320	97.20%	1.029	0.251	0.08	14.18	15.00	1.208	0.312	22.2
Left tilted	802.11a	64/5320	97.20%	1.029	0.306	0.07	14.18	15.00	1.208	0.380	22.2
Right cheek	802.11a	64/5320	97.20%	1.029	0.187	0.17	14.18	15.00	1.208	0.232	22.2
Right tilted	802.11a	64/5320	97.20%	1.029	0.228	0.11	14.18	15.00	1.208	0.283	22.2
	1 1				iver on) Tes						
Left cheek	802.11a	100/5500	97.20%	1.029	0.221	0.01	15.08	15.50	1.102	0.250	22.2
Left tilted	802.11a	100/5500	97.20%	1.029	0.294	0.07	15.08	15.50	1.102	0.333	22.2
Right cheek	802.11a	100/5500	97.20%	1.029	0.195	-0.11	15.08	15.50	1.102	0.221	22.2
Right tilted	802.11a	100/5500	97.20%	1.029	0.231	0.09	15.08	15.50	1.102	0.262	22.2
1 6 1 1	000.44	457/5705	07.000/		eiver on) Te			40.00	1.010	0.044	00.0
Left cheek	802.11a	157/5785	97.20%	1.029	0.246	-0.17	15.06	16.00	1.242	0.314	22.2
Left tilted	802.11a	157/5785	97.20%	1.029	0.287	0.01	15.06	16.00	1.242	0.367	22.2
Right cheek	802.11a	157/5785	97.20%	1.029	0.230	-0.11	15.06	16.00	1.242	0.294	22.2
Right tilted	802.11a	157/5785	97.20%	1.029	0.243	0.14	15.06	16.00	1.242	0.310	22.2
Frant side	000.44-			1	í		(Separate 15r		4.400	0.000	00.0
Front side	802.11a	64/5320	97.20%	1.029	0.027	-0.09	13.27	14.00	1.183	0.033	22.2
Back side	802.11a	64/5320	97.20%	1.029	0.279	0.01	13.27	14.00	1.183	0.340	22.2
Frant side	000.445						(Separate 15		4.450	0.007	00.0
Front side	802.11a	100/5500	97.20%	1.029	0.023	0.15	12.86	13.50	1.159	0.027	22.2
Back side 802.11a 100/5500 97.20% 1.029 0.242 0.02 12.86 13.50 1.159 0.289 22.2 Body worn (Sensor on) Test data of U-NII-3(Separate 15mm)											
Front side	802.11a	157/5785		1.029	0.034	-0.04	13.59	14.50	1.233	0.043	22.2
				1.029	0.034	-0.04	13.59	14.50			
Back side	802.11a	157/5785	97.20%		t data of U-l			14.50	1.233	0.315	22.2
Front side	802.11a	48/5240	97.20%	1.029	0.024	0.08	11.73	12.50	1.194	0.029	22.2
Back side	802.11a	48/5240	97.20%	1.029	0.024	0.08	11.73	12.50	1.194	0.029	22.2
Right side	802.11a	48/5240	97.20%	1.029	0.203	0.03	11.73	12.50	1.194	0.095	22.2
Top side	802.11a	48/5240	97.20%	1.029	0.077	0.02	11.73	12.50	1.194	0.093	22.2
Top side	002.11a	40/3240			t data of U-I			12.50	1.134	0.213	22.2
Front side	802.11a	157/5785	97.20%	1.029	0.033	-0.14	11.68	12.50	1.208	0.041	22.2
Back side	802.11a	157/5785	97.20%	1.029	0.284	0.01	11.68	12.50	1.208	0.353	22.2
Right side	802.11a	157/5785	97.20%	1.029	0.098	-0.10	11.68	12.50	1.208	0.122	22.2
Top side	802.11a	157/5785	97.20%	1.029	0.176	0.01	11.68	12.50	1.208	0.219	22.2
Test position	Test mode	Toot	Duty Cycle	Duty Cycle Scaled	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up	Scaled	Scaled SAR 10-g (W/kg)	
		Product	specific 1	factor	nsor on) To		J-NII-2A(Sepa	rate ()mm)			
Front side	802.11a	64/5320	97.20%	1.029	0.097	-0.09	13.27	14.00	1.183	0.118	22.2
Back side	802.11a	64/5320	97.20%	1.029	0.526	-0.09	13.27	14.00	1.183	0.640	22.2
Right side	802.11a	64/5320	97.20%	1.029	0.128	0.08	13.27	14.00	1.183	0.156	22.2
Top side	802.11a	64/5320	97.20%	1.029	0.603	0.02	13.27	14.00	1.183	0.734	22.2
1 00 0100	00 <u>2</u> .11u						J-NII-2C(Sepa		100	J., U-7	
Front side	802.11a	100/5500		1.029	0.091	0.06	12.86	13.50	1.159	0.108	22.2
Back side	802.11a	100/5500	97.20%	1.029	0.589	-0.01	12.86	13.50	1.159	0.702	22.2
Right side	802.11a	100/5500	97.20%	1.029	0.159	0.10	12.86	13.50	1.159	0.190	22.2
Top side	802.11a	100/5500		1.029	0.544	0.12	12.86	13.50	1.159	0.649	22.2



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Product specific 10gSAR (Sensor off) Test data											
Front side-9mm	802.11a	64/5320	97.20%	1.029	0.078	0.01	19.06	20.50	1.393	0.112	22.2
Back side-18mm	802.11a	100/5500	97.20%	1.029	0.232	0.02	19.21	20.00	1.199	0.286	22.2
Right side-16mm	802.11a	100/5500	97.20%	1.029	0.103	0.06	19.21	20.00	1.199	0.127	22.2
Top side-18mm	802.11a	64/5320	97.20%	1.029	0.152	0.15	19.06	20.50	1.393	0.218	22.2

Table 44: SAR of WIFI 5G for Head and Body.

Note:

1) 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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9.2.26 SAR Result of BT

				Bluete	ooth SAR To	est Record						
	Ant5 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.(℃)	
					Head Test	data						
Left cheek	DH5	39/2441	76.80%	1.302	0.148	-0.07	10.53	11.50	1.250	0.241	22.2	
Left tilted	DH5	39/2441	76.80%	1.302	0.106	-0.19	10.53	11.50	1.250	0.173	22.2	
Right cheek	DH5	39/2441	76.80%	1.302	0.066	-0.14	10.53	11.50	1.250	0.107	22.2	
Right tilted	DH5	39/2441	76.80%	1.302	0.056	0.04	10.53	11.50	1.250	0.091	22.2	
			В	ody worn	Test data(S	eparate 15r	nm)					
Front side	DH5	39/2441	76.80%	1.302	0.000	-0.02	10.53	11.50	1.250	0.000	22.2	
Back side	DH5	39/2441	76.80%	1.302	0.018	0.17	10.53	11.50	1.250	0.029	22.2	
			ŀ	Hotspot T	est data (Se	parate 10m	m)					
Front side	DH5	39/2441	76.80%	1.302	0.000	0.02	10.53	11.50	1.250	0.000	22.2	
Back side	DH5	39/2441	76.80%	1.302	0.023	0.16	10.53	11.50	1.250	0.037	22.2	
Right side	DH5	39/2441	76.80%	1.302	0.018	-0.01	10.53	11.50	1.250	0.029	22.2	
Top side	DH5	39/2441	76.80%	1.302	0.025	0.08	10.53	11.50	1.250	0.041	22.2	

Table 45: SAR of BT for Head and Body.



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9.3 Multiple Transmitter Evaluation

9.3.1 Simultaneous SAR SAR test evaluation

Simultaneous Transmission Possibilities

NO	Simultaneous Tx Combination	Head	Body- worn	Hotspot	Product Specific 10-g (0mm)
1	WWAN + WIFI2.4G	Υ	Y	Υ	Υ
2	WWAN + WIFI5G	Υ	Y	Y	Y
4	WWAN + BT	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(Head/Body-worn/Hotspot) 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 Simultaneous Transmission SAR Summation Scenario for WLAN Head:

			SARma	x (W/kg)				
Toot	nacition	Main	WiFi 2.4G	WiFi 5G	BT	S	Summed SA	R
rest	position	Main	Ant5	Ant5	Ant5			
		1	2	3	4	1+2	1+3	1+4
	Left cheek	0.300	0.375	0.314	0.241	0.675	0.614	0.541
GSM850	Left tilted	0.247	0.244	0.380	0.173	0.491	0.627	0.420
GSIVIOSU	Right cheek	0.435	0.134	0.294	0.107	0.569	0.729	0.542
	Right tilted	0.289	0.118	0.310	0.091	0.407	0.599	0.380
	Left cheek	0.363	0.375	0.314	0.241	0.738	0.677	0.604
CCM1000	Left tilted	0.444	0.244	0.380	0.173	0.688	0.824	0.617
GSM1900	Right cheek	0.709	0.134	0.294	0.107	0.843	1.003	0.816
	Right tilted	0.892	0.118	0.310	0.091	1.010	1.202	0.983
	Left cheek	0.405	0.375	0.314	0.241	0.780	0.719	0.646
VA/CDAAA II	Left tilted	0.485	0.244	0.380	0.173	0.729	0.865	0.658
WCDMA II	Right cheek	0.685	0.134	0.294	0.107	0.819	0.979	0.792
	Right tilted	0.792	0.118	0.310	0.091	0.910	1.102	0.883
	Left cheek	0.244	0.375	0.314	0.241	0.619	0.558	0.485
WCDMA V	Left tilted	0.183	0.244	0.380	0.173	0.427	0.563	0.356
WCDIMA V	Right cheek	0.326	0.134	0.294	0.107	0.460	0.620	0.433
	Right tilted	0.194	0.118	0.310	0.091	0.312	0.504	0.285
	Left cheek	0.590	0.375	0.314	0.241	0.965	0.904	0.831
1 TE DO	Left tilted	0.429	0.244	0.380	0.173	0.673	0.809	0.602
LTE B2	Right cheek	0.991	0.134	0.294	0.107	1.125	1.285	1.098
	Right tilted	0.755	0.118	0.310	0.091	0.873	1.065	0.846
	Left cheek	0.127	0.375	0.314	0.241	0.502	0.441	0.368
. == 5.0	Left tilted	0.076	0.244	0.380	0.173	0.320	0.456	0.249
LTE B12	Right cheek	0.259	0.134	0.294	0.107	0.393	0.553	0.366
	Right tilted	0.131	0.118	0.310	0.091	0.249	0.441	0.222
	Left cheek	0.134	0.375	0.314	0.241	0.509	0.448	0.375
1.75.544	Left tilted	0.081	0.244	0.380	0.173	0.325	0.461	0.254
LTE B14	Right cheek	0.276	0.134	0.294	0.107	0.410	0.570	0.383
	Right tilted	0.123	0.118	0.310	0.091	0.241	0.433	0.214
	Left cheek	0.234	0.375	0.314	0.241	0.609	0.548	0.475
. == 500	Left tilted	0.153	0.244	0.380	0.173	0.397	0.533	0.326
LTE B26	Right cheek	0.293	0.134	0.294	0.107	0.427	0.587	0.400
	Right tilted	0.174	0.118	0.310	0.091	0.292	0.484	0.265
	Left cheek	0.804	0.375	0.314	0.241	1.179	1.118	1.045
LTE DOG	Left tilted	0.972	0.244	0.380	0.173	1.216	1.352	1.145
LTE B30	Right cheek	1.014	0.134	0.294	0.107	1.148	1.308	1.121
	Right tilted	1.197	0.118	0.310	0.091	1.315	1.507	1.288
	Left cheek	0.682	0.375	0.314	0.241	1.057	0.996	0.923
1.75.5.45	Left tilted	0.646	0.244	0.380	0.173	0.890	1.026	0.819
LTE B48	Right cheek	0.443	0.134	0.294	0.107	0.577	0.737	0.550
	Right tilted	0.434	0.118	0.310	0.091	0.552	0.744	0.525
	Left cheek	0.509	0.375	0.314	0.241	0.884	0.823	0.750
	Left tilted	0.644	0.244	0.380	0.173	0.888	1.024	0.817
LTE B66	Right cheek	0.979	0.134	0.294	0.107	1.113	1.273	1.086
	Right tilted	1.069	0.118	0.310	0.091	1.187	1.379	1.160
	Left cheek	0.132	0.375	0.314	0.241	0.507	0.446	0.373
LTE B71	Left tilted	0.096	0.244	0.380	0.173	0.340	0.476	0.269
	Right cheek	0.226	0.134	0.294	0.107	0.360	0.520	0.333
L	ragin oncor	0.220	0.107	0.207	0.107	0.000	0.020	0.000



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NR n2	Right tilted Left cheek Left tilted Light cheek Right tilted Left cheek Left tilted Left tilted Left tilted Left tilted Left tilted Left tilted Left cheek Left tilted Left cheek Left tilted Left cheek Left tilted	0.102 0.465 0.545 0.890 0.933 0.545 0.592 1.090 1.109 0.299 0.236	0.118 0.375 0.244 0.134 0.118 0.375 0.244 0.134 0.118 0.375	0.310 0.314 0.380 0.294 0.310 0.314 0.380 0.294 0.310	0.091 0.241 0.173 0.107 0.091 0.241 0.173 0.107	0.220 0.840 0.789 1.024 1.051 0.920 0.836 1.224	0.412 0.779 0.925 1.184 1.243 0.859 0.972	0.193 0.706 0.718 0.997 1.024 0.786 0.765
NR n2	Left tilted light cheek Right tilted Left cheek Left tilted light cheek Right tilted Left cheek Left tilted Left cheek Left tilted Left cheek Left tilted	0.545 0.890 0.933 0.545 0.592 1.090 1.109 0.299 0.236	0.244 0.134 0.118 0.375 0.244 0.134 0.118	0.380 0.294 0.310 0.314 0.380 0.294	0.173 0.107 0.091 0.241 0.173 0.107	0.789 1.024 1.051 0.920 0.836	0.925 1.184 1.243 0.859 0.972	0.718 0.997 1.024 0.786
NR n2 R	ight cheek Right tilted Left cheek Left tilted light cheek Right tilted Left cheek Left tilted Left cheek Left tilted	0.890 0.933 0.545 0.592 1.090 1.109 0.299 0.236	0.134 0.118 0.375 0.244 0.134 0.118	0.294 0.310 0.314 0.380 0.294	0.107 0.091 0.241 0.173 0.107	1.024 1.051 0.920 0.836	1.184 1.243 0.859 0.972	0.997 1.024 0.786
R R	Right tilted Left cheek Left tilted Light cheek Right tilted Left cheek Left tilted Left tilted Light cheek	0.933 0.545 0.592 1.090 1.109 0.299 0.236	0.118 0.375 0.244 0.134 0.118	0.310 0.314 0.380 0.294	0.091 0.241 0.173 0.107	1.051 0.920 0.836	1.243 0.859 0.972	1.024 0.786
NR n25 R R L NR n26 R R R R	Left cheek Left tilted Light cheek Right tilted Left cheek Left tilted Light cheek	0.545 0.592 1.090 1.109 0.299 0.236	0.375 0.244 0.134 0.118	0.314 0.380 0.294	0.241 0.173 0.107	0.920 0.836	0.859 0.972	0.786
NR n25 R R L NR n26 R R R	Left tilted light cheek Right tilted Left cheek Left tilted light cheek	0.592 1.090 1.109 0.299 0.236	0.244 0.134 0.118	0.380 0.294	0.173 0.107	0.836	0.972	
NR n25 R	ight cheek Right tilted Left cheek Left tilted Light cheek	1.090 1.109 0.299 0.236	0.134 0.118	0.294	0.107			0.765
R R L NR n26 R R	Right tilted Left cheek Left tilted Light cheek	1.109 0.299 0.236	0.118			1.224	4.004	
NR n26 R	Left cheek Left tilted Light cheek	0.299 0.236		0.310			1.384	1.197
NR n26	Left tilted light cheek	0.236	0.375		0.091	1.227	1.419	1.200
NR n26	ight cheek			0.314	0.241	0.674	0.613	0.540
R	Ŭ		0.244	0.380	0.173	0.480	0.616	0.409
	Diabt tilt	0.414	0.134	0.294	0.107	0.548	0.708	0.521
1	Right tilted	0.282	0.118	0.310	0.091	0.400	0.592	0.373
L	_eft cheek	0.374	0.375	0.314	0.241	0.749	0.688	0.615
NID 00	Left tilted	0.449	0.244	0.380	0.173	0.693	0.829	0.622
NR n30	ight cheek	1.064	0.134	0.294	0.107	1.198	1.358	1.171
	Right tilted	1.129	0.118	0.310	0.091	1.247	1.439	1.220
	_eft cheek	0.606	0.375	0.314	0.241	0.981	0.920	0.847
	Left tilted	0.345	0.244	0.380	0.173	0.589	0.725	0.518
NR n41	ight cheek	1.192	0.134	0.294	0.107	1.326	1.486	1.299
	Right tilted	0.988	0.118	0.310	0.091	1.106	1.298	1.079
	_eft cheek	0.731	0.375	0.314	0.241	1.106	1.045	0.972
ı	Left tilted	0.769	0.244	0.380	0.173	1.013	1.149	0.942
NR n66	ight cheek	1.058	0.134	0.294	0.107	1.192	1.352	1.165
	Right tilted	1.109	0.118	0.310	0.091	1.227	1.419	1.200
	_eft cheek	0.617	0.375	0.314	0.241	0.992	0.931	0.858
	Left tilted	0.639	0.244	0.380	0.173	0.883	1.019	0.812
NR n70	ight cheek	0.850	0.134	0.294	0.107	0.984	1.144	0.957
	Right tilted	1.183	0.118	0.310	0.091	1.301	1.493	1.274
	eft cheek	0.270	0.375	0.314	0.241	0.645	0.584	0.511
	Left tilted	0.186	0.244	0.380	0.173	0.430	0.566	0.359
NR n/1	ight cheek	0.354	0.134	0.294	0.107	0.488	0.648	0.461
	Right tilted	0.187	0.118	0.310	0.091	0.305	0.497	0.278
	eft cheek	1.018	0.375	0.314	0.241	1.393	1.332	1.259
	Left tilted	1.118	0.244	0.380	0.173	1.362	1.498	1.291
NR n48	ight cheek	0.750	0.134	0.294	0.107	0.884	1.044	0.857
	Right tilted	0.700	0.118	0.310	0.091	0.818	1.010	0.791
	eft cheek	1.081	0.375	0.314	0.241	1.456	1.395	1.322
	Left tilted	1.066	0.244	0.380	0.173	1.310	1.446	1.239
NR n//-3500	ight cheek	0.839	0.134	0.294	0.107	0.973	1.133	0.946
	Right tilted	0.752	0.118	0.310	0.091	0.870	1.062	0.843
	_eft cheek	1.148	0.375	0.314	0.241	1.523	1.462	1.389
	Left tilted	0.906	0.244	0.380	0.173	1.150	1.286	1.079
NR n//-3900	ight cheek	0.732	0.134	0.294	0.107	0.866	1.026	0.839
	Right tilted	0.678	0.118	0.310	0.091	0.796	0.988	0.769



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Simultaneous Transmission SAR Summation Scenario for WLAN Body:

Body-worn:

			SARma	k (W/kg)				
Test p	osition	Main	WiFi 2.4G Ant5	WiFi 5G Ant5	BT Ant5	-	Summed SAI	₹
		1	2	3	4	1+2	1+3	1+4
0014050	Front side	0.337	0.219	0.043	0.000	0.556	0.380	0.337
GSM850	Back side	0.501	0.357	0.340	0.029	0.858	0.841	0.530
00144000	Front side	0.440	0.219	0.043	0.000	0.659	0.483	0.440
GSM1900	Back side	0.701	0.357	0.340	0.029	1.058	1.041	0.730
MODMAN	Front side	0.721	0.219	0.043	0.000	0.940	0.764	0.721
WCDMA II	Back side	1.037	0.357	0.340	0.029	1.394	1.377	1.066
MCDMAN	Front side	0.266	0.219	0.043	0.000	0.485	0.309	0.266
WCDMA V	Back side	0.339	0.357	0.340	0.029	0.696	0.679	0.368
LTE DO	Front side	0.606	0.219	0.043	0.000	0.825	0.649	0.606
LTE B2	Back side	0.883	0.357	0.340	0.029	1.240	1.223	0.912
LTE D40	Front side	0.291	0.219	0.043	0.000	0.510	0.334	0.291
LTE B12	Back side	0.403	0.357	0.340	0.029	0.760	0.743	0.432
LTE B14	Front side	0.268	0.219	0.043	0.000	0.487	0.311	0.268
	Back side	0.357	0.357	0.340	0.029	0.714	0.697	0.386
LTE DOG	Front side	0.303	0.219	0.043	0.000	0.522	0.346	0.303
LTE B26	Back side	0.392	0.357	0.340	0.029	0.749	0.732	0.421
LTE DOG	Front side	0.419	0.219	0.043	0.000	0.638	0.462	0.419
LTE B30	Back side	0.923	0.357	0.340	0.029	1.280	1.263	0.952
1 TE D 10	Front side	0.196	0.219	0.043	0.000	0.415	0.239	0.196
LTE B48	Back side	0.300	0.357	0.340	0.029	0.657	0.640	0.329
LTE B66	Front side	0.386	0.219	0.043	0.000	0.605	0.429	0.386
	Back side	0.661	0.357	0.340	0.029	1.018	1.001	0.690
LTE B71	Front side	0.249	0.219	0.043	0.000	0.468	0.292	0.249
	Back side	0.343	0.357	0.340	0.029	0.700	0.683	0.372
NR n2	Front side	0.422	0.219	0.043	0.000	0.641	0.465	0.422
NR n2	Back side	0.747	0.357	0.340	0.029	1.104	1.087	0.776
ND of	Front side	0.664	0.219	0.043	0.000	0.883	0.707	0.664
NR n25	Back side	1.000	0.357	0.340	0.029	1.357	1.340	1.029
	Front side	0.271	0.219	0.043	0.000	0.490	0.314	0.271
NR n26	Back side	0.355	0.357	0.340	0.029	0.712	0.695	0.384
	Front side	0.387	0.219	0.043	0.000	0.606	0.430	0.387
NR n30	Back side	0.944	0.357	0.340	0.029	1.301	1.284	0.973
	Front side	0.281	0.219	0.043	0.000	0.500	0.324	0.281
NR n41	Back side	0.940	0.357	0.340	0.029	1.297	1.280	0.969
	Front side	0.757	0.219	0.043	0.000	0.976	0.800	0.757
NR n66	Back side	0.911	0.357	0.340	0.029	1.268	1.251	0.940
	Front side	0.393	0.219	0.043	0.000	0.612	0.436	0.393
NR n70	Back side	0.621	0.357	0.340	0.029	0.978	0.961	0.650
:	Front side	0.372	0.219	0.043	0.000	0.591	0.415	0.372
NR n71	Back side	0.510	0.357	0.340	0.029	0.867	0.850	0.539
	Front side	0.334	0.219	0.043	0.000	0.553	0.377	0.334
NR n48	Back side	0.592	0.357	0.340	0.029	0.949	0.932	0.621
	Front side	0.302	0.219	0.043	0.000	0.521	0.345	0.302
NR n77-3500	Back side	0.512	0.357	0.340	0.029	0.869	0.852	0.541
	Front side	0.436	0.219	0.043	0.000	0.655	0.479	0.436
NR n77-3900		5.100	5.2.0	0.010	0.000	5.000	J. 11 U	3.100



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Hotspot:

iotspot:			SARma	x (W/kg)				
			WiFi 2.4G	WiFi 5G	ВТ	-	Summed SA	R
Test	position	Main	Ant5	Ant5	Ant5			
		1	2	3	4	1+2	1+3	1+4
	Front side	0.540	0.210	0.041	-	0.750	0.581	0.540
	Back side	0.808	0.359	0.353	0.037	1.167	1.161	0.845
	Left side	-	-	-	-	-	-	-
GSM850	Right side	-	0.181	0.122	0.029	0.181	0.122	0.029
	Top side	-	0.294	0.219	0.041	0.294	0.219	0.041
	Bottom side	0.204	-	-	-	0.204	0.204	0.204
	Front side	0.490	0.210	0.041	-	0.700	0.531	0.490
	Back side	0.629	0.359	0.353	0.037	0.988	0.982	0.666
	Left side	0.163	-	-	-	0.163	0.163	0.163
GSM1900	Right side	0.058	0.181	0.122	0.029	0.239	0.180	0.087
	Top side	0.932	0.294	0.219	0.041	1.226	1.151	0.973
	Bottom side	-	-	-	-	-	-	-
	Front side	0.420	0.210	0.041	-	0.630	0.461	0.420
	Back side	0.575	0.359	0.353	0.037	0.934	0.928	0.612
	Left side	0.139	-	-	-	0.139	0.139	0.139
WCDMA II	Right side	0.036	0.181	0.122	0.029	0.217	0.158	0.065
	Top side	0.809	0.294	0.219	0.041	1.103	1.028	0.850
	Bottom side	-	-	-	-	-	-	-
	Front side	0.318	0.210	0.041	-	0.528	0.359	0.318
	Back side	0.478	0.359	0.353	0.037	0.837	0.831	0.515
	Left side	_	_	-	-	-	-	-
WCDMA V	Right side	0.058	0.181	0.122	0.029	0.239	0.180	0.087
	Top side	-	0.294	0.219	0.041	0.294	0.219	0.041
	Bottom side	0.333	-	-	-	0.333	0.333	0.333
	Front side	0.503	0.210	0.041	-	0.713	0.544	0.503
	Back side	1.105	0.359	0.353	0.037	1.464	1.458	1.142
. == 0.0	Left side	0.899	-	-	-	0.899	0.899	0.899
LTE B2	Right side	0.059	0.181	0.122	0.029	0.240	0.181	0.088
	Top side	0.980	0.294	0.219	0.041	1.274	1.199	1.021
	Bottom side	-	-	-	-	-	-	-
	Front side	0.289	0.210	0.041	-	0.499	0.330	0.289
	Back side	0.441	0.359	0.353	0.037	0.800	0.794	0.478
LTE D40	Left side	-	-	-	-	-	-	-
LTE B12	Right side	-	0.181	0.122	0.029	0.181	0.122	0.029
	Top side	-	0.294	0.219	0.041	0.294	0.219	0.041
	Bottom side	0.310	-	-	-	0.310	0.310	0.310
	Front side	0.283	0.210	0.041	-	0.493	0.324	0.283
	Back side	0.424	0.359	0.353	0.037	0.783	0.777	0.461
. == 5	Left side	-	-	-	=	=	-	-
LTE B14	Right side	-	0.181	0.122	0.029	0.181	0.122	0.029
	Top side	-	0.294	0.219	0.041	0.294	0.219	0.041
	Bottom side	0.172	-	-	-	0.172	0.172	0.172
	Front side	0.308	0.210	0.041	-	0.518	0.349	0.308
	Back side	0.491	0.359	0.353	0.037	0.850	0.844	0.528
LTE BOO	Left side	-	-	-	-	-	-	-
LTE B26	Right side	-	0.181	0.122	0.029	0.181	0.122	0.029
	Top side	-	0.294	0.219	0.041	0.294	0.219	0.041
	Bottom side	0.331	-	-	-	0.331	0.331	0.331
			1					



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	Front side	0.428	0.210	0.041	_	0.638	0.469	0.428
	Back side	1.164	0.359	0.353	0.037	1.523	1.517	1.201
	Left side	0.470	- 0.000	-	- 0.007	0.470	0.470	0.470
LTE B30	Right side	-	0.181	0.122	0.029	0.181	0.122	0.029
	Top side	0.518	0.294	0.219	0.041	0.812	0.737	0.559
	Bottom side	-	- 0.294	- 0.219	-	- 0.012	0.737	0.555
	Front side	0.360	0.210	0.041	_	0.570	0.401	0.360
	Back side	0.728	0.359	0.353	0.037	1.087	1.081	0.765
	Left side	0.172	- 0.339	-	-	0.172	0.172	0.703
LTE B48	Right side	0.172	0.181	0.122	0.029	0.172	0.172	0.172
	Top side	0.195	0.181	0.122	0.029	0.852	0.317	0.224
	Bottom side	0.556	0.294	0.219	0.041	0.032	-	0.599
		0.585	0.210	0.041	-			
	Front side				0.007	0.795	0.626	0.585
	Back side	0.984	0.359	0.353	0.037	1.343	1.337	1.021
LTE B66	Left side	0.329	-	-	-	0.329	0.329	0.329
	Right side	-	0.181	0.122	0.029	0.181	0.122	0.029
	Top side	0.960	0.294	0.219	0.041	1.254	1.179	1.001
	Bottom side	<u> </u>	-	-	-	-	-	
	Front side	0.281	0.210	0.041	-	0.491	0.322	0.281
	Back side	0.438	0.359	0.353	0.037	0.797	0.791	0.475
LTE B71	Left side	-	-	-	-	-	-	-
212 57 1	Right side	0.076	0.181	0.122	0.029	0.257	0.198	0.105
	Top side	-	0.294	0.219	0.041	0.294	0.219	0.041
	Bottom side	0.267	-	-	-	0.267	0.267	0.267
	Front side	0.467	0.210	0.041	-	0.677	0.508	0.467
	Back side	0.845	0.359	0.353	0.037	1.204	1.198	0.882
NR n2	Left side	0.133	-	-	-	0.133	0.133	0.133
NR NZ	Right side	=	0.181	0.122	0.029	0.181	0.122	0.029
	Top side	1.086	0.294	0.219	0.041	1.380	1.305	1.127
	Bottom side	-	-	-	-	-	-	-
	Front side	0.627	0.210	0.041	-	0.837	0.668	0.627
	Back side	0.864	0.359	0.353	0.037	1.223	1.217	0.901
	Left side	0.233	-	-	-	0.233	0.233	0.233
NR n25	Right side	0.063	0.181	0.122	0.029	0.244	0.185	0.092
	Top side	1.059	0.294	0.219	0.041	1.353	1.278	1.100
	Bottom side	=	-	-	-	-	-	-
	Front side	0.443	0.210	0.041	_	0.653	0.484	0.443
	Back side	0.677	0.359	0.353	0.037	1.036	1.030	0.714
	Left side	=	-	-	-	-	-	-
NR n26	Right side	-	0.181	0.122	0.029	0.181	0.122	0.029
	Top side	_	0.294	0.219	0.041	0.294	0.219	0.041
	Bottom side	0.446	-	-	-	0.446	0.446	0.446
	Front side	0.385	0.210	0.041	_	0.595	0.426	0.385
	Back side	1.033	0.359	0.353	0.037	1.392	1.386	1.070
	Left side	0.422	-	-	-	0.422	0.422	0.422
NR n30	Right side	-	0.181	0.122	0.029	0.422	0.422	0.422
NR n30	Top side	0.914	0.181	0.122	0.029	1.208	1.133	0.029
	Bottom side	- 0.914	0.294	- 0.219	0.041	1.200	1.133	0.900
			0.240		-	0.644	0.475	0.424
	Front side	0.434	0.210	0.041		0.644	0.475	0.434
	Back side	1.054	0.359	0.353	0.037	1.413	1.407	1.091
NR n41	Left side	0.582	- 0.404	- 0.400	- 0.000	0.582	0.582	0.582
	Right side	- 0.000	0.181	0.122	0.029	0.181	0.122	0.029
	Top side	0.693	0.294	0.219	0.041	0.987	0.912	0.734
	Bottom side	-	-	-	-	-	-	-



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	Front side	0.488	0.210	0.041	<u> </u>	0.698	0.529	0.488
-	Back side	0.488	0.210	0.041	0.037	1.041	1.035	0.466
NR n66								
	Left side	0.446	-	-	-	0.446	0.446	0.446
	Right side	0.086	0.181	0.122	0.029	0.267	0.208	0.115
_	Top side	0.771	0.294	0.219	0.041	1.065	0.990	0.812
	Bottom side	-	-	-	-	-	-	-
-	Front side	0.649	0.210	0.041	-	0.859	0.690	0.649
_	Back side	0.993	0.359	0.353	0.037	1.352	1.346	1.030
NR n70	Left side	0.353	-	-	-	0.353	0.353	0.353
MICHIO	Right side	0.131	0.181	0.122	0.029	0.312	0.253	0.160
	Top side	0.970	0.294	0.219	0.041	1.264	1.189	1.011
	Bottom side	-	-	-	-	-	-	-
	Front side	0.409	0.210	0.041	-	0.619	0.450	0.409
	Back side	0.638	0.359	0.353	0.037	0.997	0.991	0.675
ND 74	Left side	-	-	-	-	-	-	-
NR n71	Right side	0.075	0.181	0.122	0.029	0.256	0.197	0.104
	Top side	-	0.294	0.219	0.041	0.294	0.219	0.041
	Bottom side	0.435	-	-	-	0.435	0.435	0.435
	Front side	0.629	0.210	0.041	-	0.839	0.670	0.629
	Back side	1.076	0.359	0.353	0.037	1.435	1.429	1.113
NID 40	Left side	0.341	-	-	-	0.341	0.341	0.341
NR n48	Right side	0.378	0.181	0.122	0.029	0.559	0.500	0.407
-	Top side	0.998	0.294	0.219	0.041	1.292	1.217	1.039
-	Bottom side	=	-	-	-	-	-	-
	Front side	0.611	0.210	0.041	-	0.821	0.652	0.611
-	Back side	1.064	0.359	0.353	0.037	1.423	1.417	1.101
<u> </u>	Left side	0.214	-	-	-	0.214	0.214	0.214
NR n77-3500	Right side	0.553	0.181	0.122	0.029	0.734	0.675	0.582
-	Top side	1.120	0.294	0.219	0.041	1.414	1.339	1.161
-	Bottom side	-	-	-	-	-	-	-
	Front side	0.918	0.210	0.041	-	1.128	0.959	0.918
	Back side	1.106	0.359	0.353	0.037	1.465	1.459	1.143
	Left side	0.231	-	-	-	0.231	0.231	0.231
NR n77-3900	Right side	0.214	0.181	0.122	0.029	0.395	0.336	0.243
 	Top side	0.957	0.294	0.219	0.041	1.251	1.176	0.998
-	Bottom side	-	- 0.294	0.213	0.041	1.231	1.170	0.330
	Porrolli sine	-			_		-	-



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Product specific 10g SAR:

		SARma	ax (W/kg)	
Te	est position	Main	WiFi 5G Ant5	Summed SAR
		1	2	1+2
	Front side	=	0.118	0.118
	Back side	2.131	0.702	2.833
CCM1000	Left side	=	-	-
GSM1900	Right side	=	0.190	0.190
	Top side	3.036	0.734	3.770
	Bottom side	=	-	-
	Front side	2.055	0.118	2.173
	Back side	1.711	0.702	2.413
MODMA II	Left side	-	-	-
WCDMA II	Right side	-	0.190	0.190
LTE B2	Top side	2.239	0.734	2.973
	Bottom side	-	-	-
	Front side	2.345	0.118	2.463
	Back side	1.820	0.702	2.522
	Left side	-	-	-
LTE B2	Right side	-	0.190	0.190
	Top side	2.701	0.734	3.435
	Bottom side	-	-	-
	Front side	-	0.118	0.118
	Back side	2.721	0.702	3.423
	Left side	-	-	-
LTE B30	Right side	-	0.190	0.190
	Top side	-	0.734	0.734
	Bottom side	-		- 0.704
	Front side	-	0.118	0.118
	Back side	2.242	0.702	2.944
	Left side	-	-	-
LTE B66	Right side	-	0.190	0.190
	Top side	2.193	0.734	2.927
	Bottom side	-	-	-
	Front side	<u> </u>	0.118	0.118
	Back side	2.297	0.702	2.999
	Left side	-	-	2.333
NR n2	Right side	-	0.190	0.190
	Top side	3.128	0.734	3.862
	Bottom side	J. 120 -	-	3.002
	Front side	2.762	0.118	2.880
		2.492	0.702	3.194
	Back side Left side		0.702	3.134
NR n25		-	0.100	0.100
	Right side		0.190 0.734	0.190
	Top side	3.149		3.883
	Bottom side	-	- 0.110	- 0.110
	Front side	- 0.070	0.118	0.118
	Back side	2.670	0.702	3.372
NR n30	Left side	-	-	
	Right side	-	0.190	0.190
	Top side	1.706	0.734	2.440
	Bottom side	-	-	-
NR n41	Front side	-	0.118	0.118



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	Back side	2.956	0.702	3.658
	Left side	=	-	=
	Right side	=	0.190	0.190
	Top side	=	0.734	0.734
	Bottom side	=	-	-
	Front side	2.187	0.118	2.305
	Back side	2.676	0.702	3.378
ND xcc	Left side	=	-	-
NR n66	Right side	=	0.190	0.190
	Top side	2.741	0.734	3.475
	Bottom side	=	-	-
	Front side	=	0.118	0.118
	Back side	2.890	0.702	3.592
ND = 40	Left side	-	-	-
NR n48	Right side	-	0.190	0.190
	Top side	1.419	0.734	2.153
	Bottom side	-	-	-
	Front side	-	0.118	0.118
	Back side	2.383	0.702	3.085
ND =77 0500	Left side	-	-	-
NR n77-3500	Right side	-	0.190	0.190
	Top side	1.072	0.734	1.806
	Bottom side	-	-	=



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Equipment list

	SAR Test System (Frequency range 300MHz-6GHz)				
Software Reference DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483) Hardware Reference					

		'	ilaiuwaie itelelelici	5		
	Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration
\boxtimes	Twin Phantom	SPEAG	SAM1	1769	NCR	NCR
\boxtimes	DAE	SPEAG	DAE4	1327	2023-11-17	2024-11-16
\boxtimes	E-Field Probe	SPEAG	EX3DV4	7735	2023-10-17	2024-10-26
\boxtimes	Validation Kits	SPEAG	D750V3	1210	2021-09-08	2024-09-07
\boxtimes	Validation Kits	SPEAG	D835V2	4d161	2023-08-25	2026-08-24
\boxtimes	Validation Kits	SPEAG	D1750V2	1038	2021-12-16	2024-12-15
\boxtimes	Validation Kits	SPEAG	D1950V3	1218	2023-05-04	2026-05-03
\boxtimes	Validation Kits	SPEAG	D2300V2	1072	2022-06-16	2025-06-15
\boxtimes	Validation Kits	SPEAG	D2450V2	922	2023-08-28	2026-08-27
\boxtimes	Validation Kits	SPEAG	D2600V2	1180	2021-05-12	2024-05-11
\boxtimes	Validation Kits	SPEAG	D3500V2	1124	2021-05-17	2024-05-16
\boxtimes	Validation Kits	SPEAG	D3700V2	1094	2021-05-17	2024-05-16
\boxtimes	Validation Kits	SPEAG	D3900V2	1071	2021-05-20	2024-05-19
\boxtimes	Validation Kits	SPEAG	D5GHzV2	1313	2022-01-25	2025-01-24
\boxtimes	Dielectric parameter probes	SPEAG	DAKS-3.5	1120	2023-06-06	2024-06-05
\boxtimes	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	0050920	2023-06-06	2024-06-05
\boxtimes	Universal Radio Communication Tester	R&S	CMW500	111637	2023-09-13	2024-09-12
\boxtimes	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR
\boxtimes	Signal Generator	R&S	SMB100A	182393	2023-02-06	2024-02-05
	Preamplifier	Qiji	YX28980933	202104001	NCR	NCR
\boxtimes	Power Sensor	Keysight	U2002H	121251	2023-9-13	2024-09-12
\boxtimes	Attenuator	SHX	TS2-3dB	30704	NCR	NCR
				•		

VLF-2500(+)

LA-F13

SK1730SL5A

DTM3000

MingGao

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

Mini-Circuits

Microlab Fxr

SAKO

LKM



Coaxial low pass filter

Coaxial low pass filter

DC POWER SUPPLY

Speed reading thermometer

Humidity and Temperature

Indicator

 \boxtimes

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2024-09-14



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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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