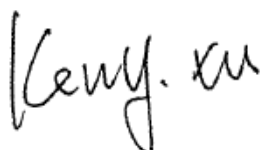


FCC SAR TEST REPORT

Application No.: SZCR2505002123WM
Applicant: Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address of Applicant: No.178 Yulong Avenue,Yufengshan,Yubei District,Chongqing,China
Manufacturer: Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address of Manufacturer: No.178 Yulong Avenue,Yufengshan,Yubei District,Chongqing,China
EUT Description: Mobile Phone
Model No.: RMX5106
Trade Mark: realme
FCC ID: 2AUYFRMX5106
Standards: FCC 47CFR §2.1093
Date of Receipt: 2025-05-28
Date of Test: 2025-05-31 to 2025-06-18
Date of Issue: 2025-06-25

Test Result :	PASS *
----------------------	---------------

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



Keny Xu
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-06-25		Original

Authorized for issue by:				
		Sherlock Fang		
		Sherlock Fang/Project Engineer		
		Roman Pan		
		Roman Pan /Reviewer		



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TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)			
	Head	Body-worn	Hotspot	Product specific 10g SAR
GSM850	0.38	0.19	0.67	/
GSM1900	0.91	0.16	0.36	/
WCDMA Band II	0.74	0.30	0.52	/
WCDMA Band IV	1.05	0.26	0.48	/
WCDMA Band V	0.55	0.16	0.61	/
LTE Band 2	0.80	0.23	0.57	/
LTE Band 5	0.63	0.22	0.63	/
LTE Band 7	1.07	0.25	0.48	/
LTE Band 12/17	0.19	0.17	0.26	/
LTE Band 13	0.27	0.20	0.31	/
LTE Band 26	0.51	0.21	0.50	/
LTE Band 41/38	0.96	0.24	0.58	/
LTE Band 66/4	0.92	0.28	0.46	/
LTE Band 71	0.24	0.09	0.29	/
NR Band n2	1.00	0.31	0.75	/
NR Band n5	0.59	0.19	0.71	/
NR Band n7	1.12	0.23	0.53	/
NR Band n26	0.45	0.18	0.66	/
NR Band n41/38	1.15	0.18	0.42	/
NR Band n66	1.09	0.21	0.37	/
NR Band n71	0.14	0.06	0.33	/
WI-FI (2.4GHz)	0.82	0.21	0.38	/
WI-FI (5GHz)	1.19	0.41	1.00	1.76
BT	0.58	<0.10	0.12	/



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SAR Limited(W/kg)	1.6			4.0
Maximum Simultaneous Transmission SAR (W/kg)				
Scenario	Head	Body-worn	Hotspot	Product specific 10g SAR
Sum SAR	1.59	0.77	1.40	1.76
SPLSR	/	/	/	/
SPLSR Limited	0.04			0.1



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1 General Information

1.1 General Description of EUT

Product Name:	Mobile Phone		
Model No.:	RMX5106		
Trade Mark:	realme		
Product Phase:	production unit		
Device Type:	portable device		
Exposure Category:	uncontrolled environment / general population		
IMEI:	860028070019633; 860028070019690; 860028070019658; 860028070019716; 860028070019732.		
Hardware Version:	11		
Software Version:	realme UI 6.0		
Antenna Type:	Fixed Internal		
Device Operating Configurations:			
Modulation Mode:	GSM :GMSK,8PSK; WCDMA :QPSK,16QAM LTE :QPSK,16QAM,64QAM 5G NR :DFT-s-OFDM(QPSK,16QAM,64QAM,256QAM) CP-OFDM(QPSK,16QAM,64QAM,256QAM) WIFI :DSSS,OFDM,OFDMA; BT :GFSK, π/4DQPSK,8DPSK		
Device Class:	B		
GPRS Multi-slots Class:	12	EGPRS Multi-slots Class:	12
HSDPA UE Category:	24	HSUPA UE Category:	7
DC-HSDPA UE Category:	24		
Power Class:	4, tested with power level 5(GSM850)		
	1, tested with power level 0(GSM1900)		
	3, tested with power control “all 1”(WCDMA Band)		
	3, tested with power control “max power”(LTE Band)		
Frequency Bands:	Band	Tx(MHz)	
	GSM850	824~849	
	GSM1900	1850~1910	
	WCDMA Band II	1850~1910	
	WCDMA Band IV	1710~1755	
	WCDMA Band V	824~849	

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	LTE Band 2	1850 ~1910
	LTE Band 4	1710~1755
	LTE Band 5	824~849
	LTE Band 7	2500~2570
	LTE Band 12	699~716
	LTE Band 13	777~787
	LTE Band 17	704~716
	LTE Band 26	814~849
	LTE Band 38	2570~2620
	LTE Band 41	2496~2690
	LTE Band 66	1710~1780
	LTE Band 71	663~698
	NR Band n2	1850 ~1910
	NR Band n5	824~849
	NR Band n7	2500~2570
	NR Band n26	814~849
	NR Band n38	2570~2620
	NR Band n41	2496~2690
	NR Band n66	1710~1780
	NR Band n71	663~698
	WIFI 2.4G	2412~2462
	WIFI 5G	5150~5250
		5250~5350
		5470~5725
		5725~5850
	BT	2402~2480
	NFC	13.56
RF Cable:	☒ Provided by applicant ☐ Provided by the laboratory	
Battery Information:	Model 1:	BLPC93
	Normal Voltage:	3.92V
	Rated capacity:	6325mAh
	Manufacturer:	Chongqing Cosmx Battery Co.,LTD
Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this		



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1.1.1 DUT Antenna Locations (Back View)

The DUT Antenna Locations can be referred to Appendix D

Note:

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

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

Distance of the Antenna to the EUT surface/edge						
Mode	Front	Back	Left	Right	Top	Bottom
Ant0	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$
Ant1	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant4	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$
Ant5	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant6	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant7	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant8	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant9	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant13	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$

Table 1 : Distance of the Antenna to the EUT surface/edge

Note:

- 1) When the antenna-to-edge distance is greater than 25mm, such position does not need to be tested.

1.1.2 Smart Transmit feature for RF Exposure compliance

The device is equipped with MediaTek chipset, which uses the TA SAR algorithm (Version:TA 2.0) to control the energy radiation of the mobile phone. The RF exposure limit is defined based on time-averaged RF exposure. The product implements MediaTek Time-averaged SAR (TA-SAR) feature which controls the instantaneous transmit power for WWAN transmitter to ensure the product in compliance with RF exposure limit over a defined time window, for SAR(transmit frequency $\leq 6\text{GHz}$). To control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is compliant to the regulation requirement.

Please refer to part2 report for more details.



1.1.3 Power reduction specification

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

- 1) This device uses the receiver to indicate whether the user is making a voice call in head scenario or not. The selection between head and body power levels is based on the receiver detection mechanism. A fixed level power reduction is applied for some frequency bands when the audio receiver is on.
- 2) A fixed level power reduction is applied for some frequency bands when simultaneously transmitting with the other antennas in certain simultaneous transmission conditions.
- 3) 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.

The detailed power reduction information can be referred to Appendix E Conducted RF Output Power.



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1.2 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	Interim 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



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1.3 RF exposure limits

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

Notes:

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

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

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

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation.)



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1.4 Test Location

All tests were performed at:

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No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

1.5 Test Facility

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

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

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

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.



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2 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C
Relative humidity	Min. = 30%, Max. = 70%
Ground system resistance	< 0.5 Ω
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.	



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3 SAR Measurements System Configuraion

3.1 The SAR Measurement System

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

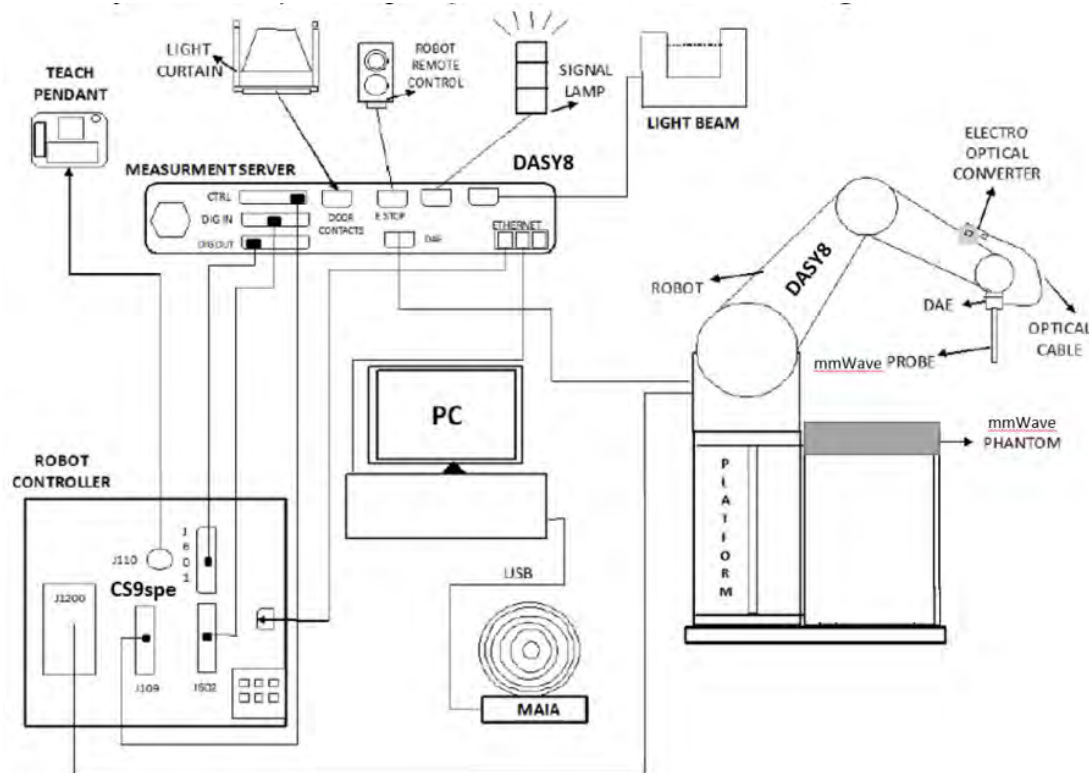
The DASY system for performing compliance tests consists of the following items:

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 system.
- DASY 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.



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3.2 Isotropic E-field Probe EX3DV4

	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available.
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY52 SAR and higher, EASY4/MRI

3.3 Data Acquisition Electronics (DAE)

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

3.4 SAM Twin Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)	
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)	
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)	
Dimensions (incl. Wooden Support)	Length: 1000 mm Width: 500 mm Height: adjustable feet	
Filling Volume	pprox.. 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. 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.

3.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)	
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)	
Shell Thickness	2.0 ± 0.2 mm(bottom plate)	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	
Filling Volume	pprox.. 30 liters	
Wooden Support	SPEAG standard phantom table	

Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEEE 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 SPEAG dosimetric probes and dipoles.

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

3.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

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

3.7 Measurement Procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

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

Step 2: Area scan

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

Step 3: Zoom scan

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

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

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

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

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 $\pm 5 \%$.

3.7.2 Data storage

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

3.7.3 Data Evaluation by SEMCAD

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

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

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

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

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

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

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

U_i = input signal of channel I (I = x, y, z)

cf = crest factor of exciting field (DASY parameter)

dcp I = diode compression point (DASY parameter)

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



$$E_i = (V_i / \text{Norm}_i \cdot \text{ConvF})^{1/2}$$

H-field probes:

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

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

Norm_i = sensor sensitivity of channel I (I = x, y, z)

[mV/(V/m)²] for E-field Probes

ConvF = sensitivity enhancement in solution

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

f = carrier frequency [GHz]

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

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

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

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

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

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

with SAR = local specific absorption rate in mW/g

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

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

ϵ = equivalent tissue density in g/cm³

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

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

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

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

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



4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

Per KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

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

4.2 SAR measurement uncertainty

Per KDB 865664 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.



5 Description of Test Position

5.1 The Head Test Position

5.1.1 SAM Phantom Shape

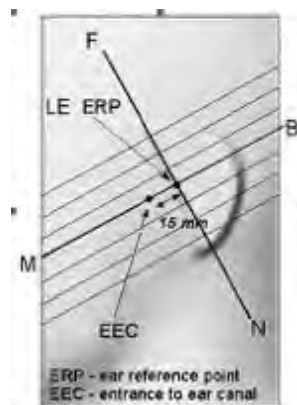


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

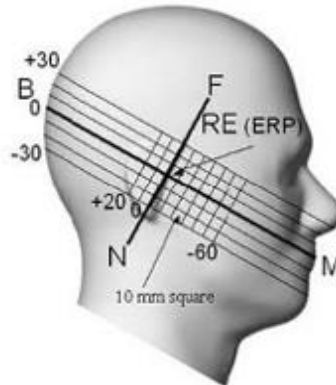
Note: The centre strip including the nose region has a different thickness tolerance.



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

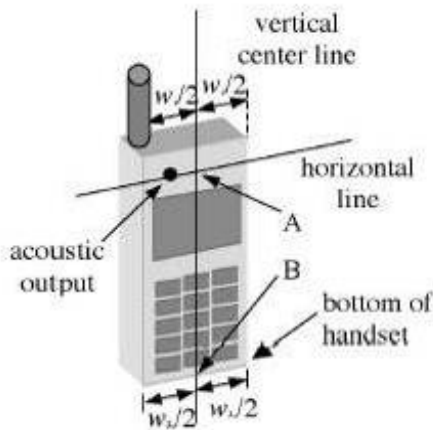


F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations

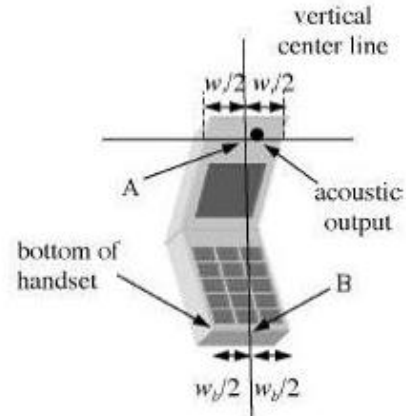


F-6.Side view of the phantom showing relevant markings and seven cross-sectional plane locations

5.1.2 EUT constructions



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



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

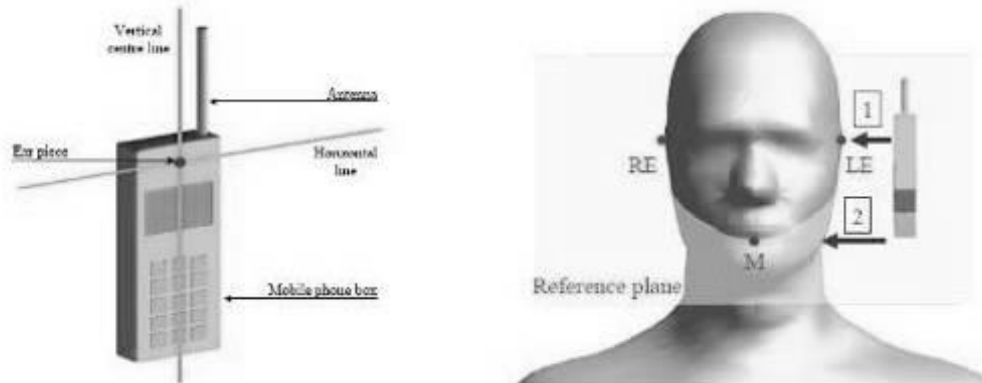
5.1.3 Definition of the “check” position

- 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.

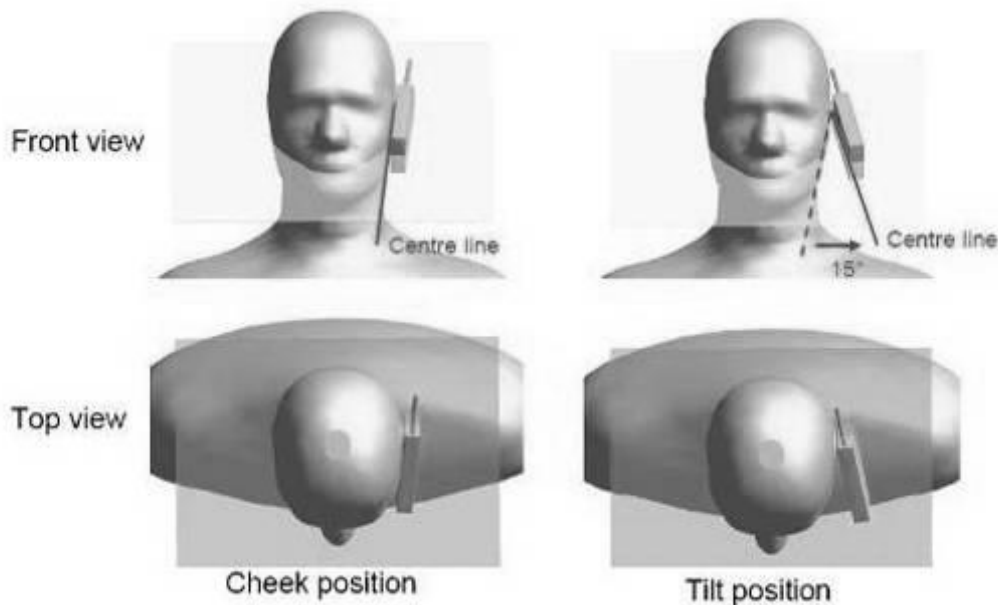


5.1.4 Definition of the “tilted” position

- Position the device in the “cheek” position described above.
- 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

5.2 The Body Test Position

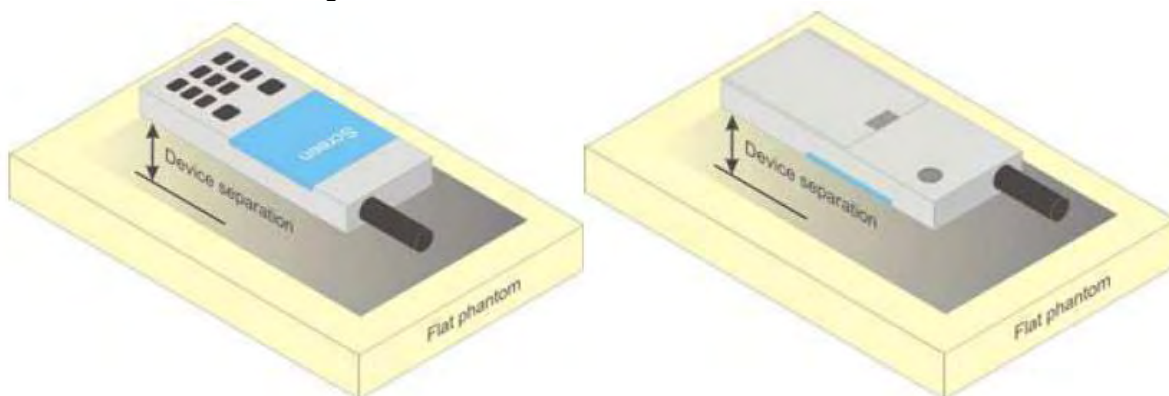
5.2.1 Body-worn accessory exposure conditions

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

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

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

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



F-11. Test positions for body-worn devices

5.2.2 Wireless Router exposure conditions

Some battery-operated handsets have the capability to transmit and receive user data through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 where SAR test considerations for handsets ($L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$) are based on a composite test separation distance of 10 mm from the front, back and edges of the device containing transmitting antennas within 2.5 cm of their edges, determined from general mixed-use conditions for this type of devices. For devices with form factors smaller than $9 \text{ cm} \times 5 \text{ cm}$, a test separation distance of 5 mm is required.

5.3 Extremity exposure conditions

Per FCC KDB 648474 D04, for smart phones with a display diagonal dimension $> 15.0 \text{ cm}$ or an overall diagonal dimension $> 16.0 \text{ cm}$ that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, the device is marketed as "Phablet".

The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at $\leq 25 \text{ mm}$ from that surface or edge, in direct contact with a flat phantom, for Product Specific 10-g SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR $> 1.2 \text{ W/kg}$; 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 Hotspot SAR result, there no frequency bands need to test with 0mm for the Product Specific 10-g SAR.



6 SAR System Verificaion Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

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

Ingredients (% by weight)	Frequency (MHz)				
	450	700-1000	1700-2000	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 MQ+ resistivity Tween: Polyoxyethylene (20) sorbitan monolaurate Sucrose: 98+% Pure Sucrose HEC: Hydroxyethyl Cellulose					
HSL5GHz is composed of the following ingredients: (Manufactured by SPEAG) Water: 50-65% Mineral oil: 10-30% Emulsifiers: 8-25% Sodium salt: 0-1.5%					

Table 2 : Recipe of Tissue Simulate Liquid

6.1.2 Measurement for Tissue Simulate Liquid

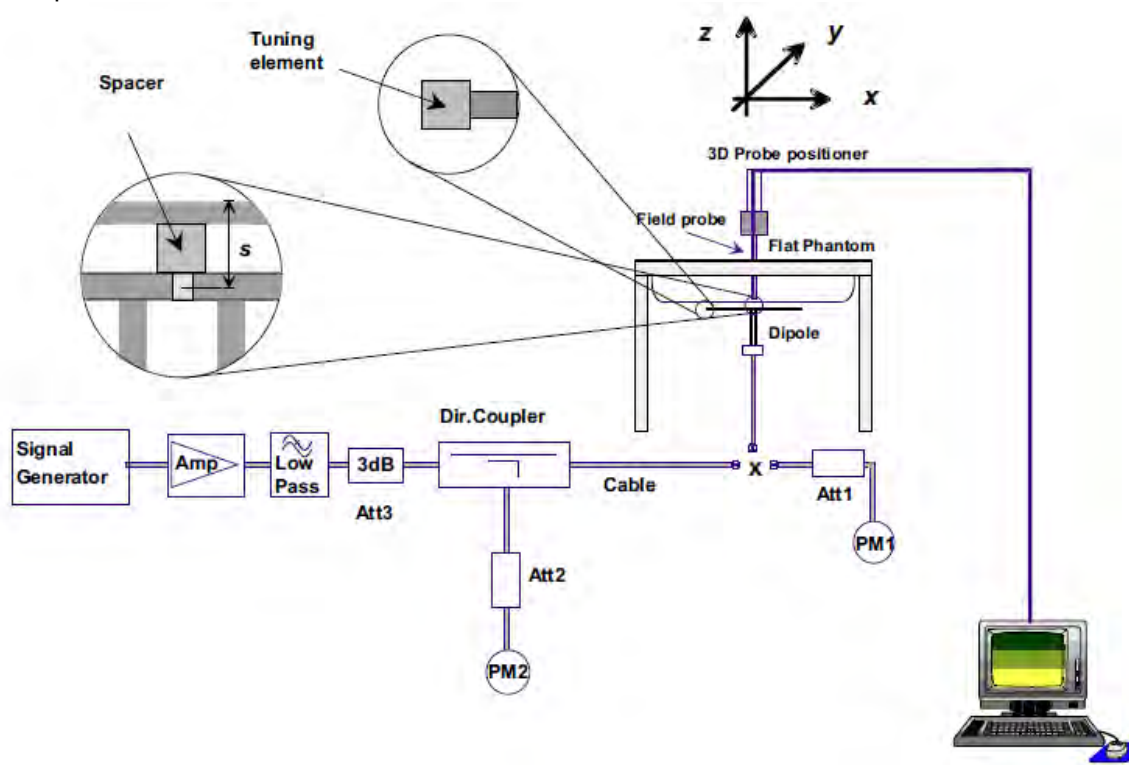
The Conductivity (σ) and Permittivity (ϵ_r) are listed in Table 2. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was $22 \pm 2^\circ\text{C}$.

Tissue Type	Measured Frequency (MHz)	Measured Tissue		Target Tissue ($\pm 5\%$)		Deviation (Within $\pm 5\%$)		Liquid Temp. ($^\circ\text{C}$)	Test Date
		ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$		
750 Head	750	42.800	0.891	41.90	0.89	2.15%	0.11%	22.2	2025/6/5
750 Head	750	41.800	0.900	41.90	0.89	-0.24%	1.12%	21.6	2025/6/6
750 Head	750	43.900	0.881	41.90	0.89	4.77%	-1.01%	22.5	2025/6/10
835 Head	835	42.400	0.860	41.50	0.90	2.17%	-4.44%	22.1	2025/6/3
835 Head	835	43.200	0.891	41.50	0.90	4.10%	-1.00%	22.4	2025/6/9
835 Head	835	42.600	0.873	41.50	0.90	2.65%	-3.00%	22.1	2025/6/12
1750 Head	1750	39.700	1.350	40.10	1.37	-1.00%	-1.46%	21.9	2025/6/5
1750 Head	1750	40.300	1.360	40.10	1.37	0.50%	-0.73%	22.2	2025/6/7
1750 Head	1750	40.700	1.390	40.10	1.37	1.50%	1.46%	22.2	2025/6/18
1900 Head	1900	40.200	1.390	40.00	1.40	0.50%	-0.71%	22.1	2025/6/6
1900 Head	1900	40.200	1.390	40.00	1.40	0.50%	-0.71%	22.4	2025/6/8
1900 Head	1900	39.800	1.390	40.00	1.40	-0.50%	-0.71%	22.4	2025/6/11
1950 Head	1950	41.200	1.440	40.00	1.40	3.00%	2.86%	21.8	2025/5/31
1950 Head	1950	41.200	1.440	40.00	1.40	3.00%	2.86%	21.8	2025/5/31
2450 Head	2450	38.500	1.730	39.20	1.80	-1.79%	-3.89%	21.9	2025/6/14
2600 Head	2600	39.000	1.890	39.00	1.96	0.00%	-3.57%	22.2	2025/6/2
2600 Head	2600	39.100	1.920	39.00	1.96	0.26%	-2.04%	21.7	2025/6/2
2600 Head	2600	39.200	1.920	39.00	1.96	0.51%	-2.04%	22.1	2025/6/9
2600 Head	2600	39.100	1.920	39.00	1.96	0.26%	-2.04%	22.1	2025/6/13
5250 Head	5250	36.300	4.780	35.90	4.71	1.11%	1.49%	21.8	2025/6/15
5600 Head	5600	35.400	5.170	35.50	5.07	-0.28%	1.97%	21.8	2025/6/15
5750 Head	5750	35.200	5.360	35.40	5.22	-0.56%	2.68%	21.8	2025/6/15

Table 3 : Measurement result of Tissue electric parameters

6.2 SAR System Check

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



F-12.The microwave circuit arrangement used for SAR system Check

6.2.1 Justification for Extended SAR Dipole Calibrations

1) 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 20% 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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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

6.2.2 Summary System Check Result(s)

Validation Kit	Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within ±10%)		Liquid Temp. (°C)	Test Date
	1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1-g(W/kg)	10-g(W/kg)		
D750V3_Head	1.97	1.27	7.88	5.08	8.37	5.53	-5.85%	-8.14%	22.2	2025/6/5
D750V3_Head	2.27	1.51	9.08	6.04	8.37	5.53	8.48%	9.22%	21.6	2025/6/6
D750V3_Head	1.98	1.27	7.92	5.08	8.37	5.53	-5.38%	-8.14%	22.5	2025/6/10
D835V2_Head	2.30	1.55	9.20	6.20	9.53	6.29	-3.46%	-1.43%	22.1	2025/6/3
D835V2_Head	2.53	1.61	10.12	6.44	9.53	6.29	6.19%	2.38%	22.4	2025/6/9
D835V2_Head	2.54	1.64	10.16	6.56	9.53	6.29	6.61%	4.29%	22.1	2025/6/12
D1750V2_Head	9.36	5.00	37.44	20.00	36.60	19.30	2.30%	3.63%	21.9	2025/6/5
D1750V2_Head	9.33	4.96	37.32	19.84	36.60	19.30	1.97%	2.80%	22.2	2025/6/7
D1750V2_Head	9.08	4.85	36.32	19.40	36.60	19.30	-0.77%	0.52%	22.2	2025/6/18
D1900V2_Head	10.7	5.49	42.80	21.96	39.50	20.60	8.35%	6.60%	22.1	2025/6/6
D1900V2_Head	10.6	5.47	42.40	21.88	39.50	20.60	7.34%	6.21%	22.4	2025/6/8
D1900V2_Head	10.7	5.52	42.80	22.08	39.50	20.60	8.35%	7.18%	22.4	2025/6/11
D1950V3_Head	11.10	5.71	44.40	22.84	40.50	20.80	9.63%	9.81%	21.8	2025/5/31
D1950V3_Head	10.70	5.51	42.80	22.04	40.50	20.80	5.68%	5.96%	21.8	2025/5/31
D2450V2_Head	12.80	5.84	51.20	23.36	52.20	24.30	-1.92%	-3.87%	21.9	2025/6/14
D2600V2_Head	13.70	6.16	54.80	24.64	57.70	25.80	-5.03%	-4.50%	22.2	2025/6/2
D2600V2_Head	13.80	6.22	55.20	24.88	57.70	25.80	-4.33%	-3.57%	22.2	2025/6/2
D2600V2_Head	14.50	6.52	58.00	26.08	57.70	25.80	0.52%	1.09%	21.7	2025/6/4
D2600V2_Head	14.70	6.66	58.80	26.64	57.70	25.80	1.91%	3.26%	22.1	2025/6/9
D2600V2_Head	14.10	6.42	56.40	25.68	57.70	25.80	-2.25%	-0.47%	22.1	2025/6/13
Validation Kit	Measured SAR 100mW	Measured SAR 100mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within ±10%)		Liquid Temp. (°C)	Test Date
	1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1-g(W/kg)	10-g(W/kg)		
D5GHzV2_5.25G_Head	7.54	2.32	75.40	23.20	77.30	22.10	-2.46%	4.98%	21.8	2025/6/15
D5GHzV2_5.6G_Head	8.16	2.41	81.60	24.10	81.30	23.10	0.37%	4.33%	21.8	2025/6/15
D5GHzV2_5.75G_Head	7.51	2.23	75.10	22.30	77.10	21.30	-2.59%	4.69%	21.8	2025/6/15

Table 4 : SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A



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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

7 Test Configuration

7.1 3G SAR Test Reduction Procedure

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

7.2 Operation Configurations

7.2.1 GSM Test Configuration

SAR tests for GSM 850 and GSM 1900, a communication link is set up with a base station by air link. Using Radio Communication Analyzer, 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 12 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 12 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. 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, 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.

7.2.2 WCDMA Test Configuration

1) . Output Power Verification

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



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2) . Head SAR

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

3) . Body SAR

SAR for body configurations is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreading code or DPDCHn, for the highest reported body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When more than 2 DPDCHn are supported by the handset, it may be necessary to configure additional DPDCHn using FTM (Factory Test Mode) or other chipset based test approaches with parameters similar to those used in 384 kbps and 768 kbps RMC.

4) . HSDPA / HSUPA

RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power for production units in HSDPA / HSUPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest measured SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power of HSDPA / HSUPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.5 W/kg, SAR measurement is not required for HSDPA / HSUPA.

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.

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

Note1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8$ Ahs = $\beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$

Note2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude(EVM) with HS-DPCCH test in clause 5.13.1.A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 8$ (Ahs=30/15) with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta_{CQI} = 7$ (Ahs=24/15) with $\beta_{hs} = 24/15 * \beta_c$.

Note3: CM=1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.



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

HS-DSCH Category	MaximumHS-DSCH Codes Received	Minimum Inter-TTI Interval	MaximumHS-DSCH TransportBlockBits/HS-DSCH TTI	TotalSoft 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 6 : 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 ¹	$\beta_{\text{e}}^{\text{2}}$	$\beta_{\text{d}}^{\text{3}}$	β_{d} (SF) ⁴	$\beta_{\text{e}}/\beta_{\text{d}}^{\text{5}}$	$\beta_{\text{hz}}^{\text{6}}$	$\beta_{\text{hz}}^{\text{7}}$	$\beta_{\text{ed}}^{\text{8}}$	β_{e} (SF) ⁹	$\beta_{\text{ed}}^{\text{10}}$ (code) ¹¹	CM ¹² (dB) ¹³	MP ¹⁴ R ¹⁵ (dB) ¹⁶	AG ¹⁷ (4) ¹⁸ Inde ¹⁹ x ²⁰	E-TFC I ²¹
1 ²²	11/15 ⁽³⁾ ²³	15/15 ⁽³⁾ ²⁴	64 ²⁵	11/15 ⁽³⁾ ²⁶	22/15 ²⁷	209/225 ²⁸	1039/225 ²⁹	4 ³⁰	1 ³¹	1.0 ³²	0.0 ³³	20 ³⁴	75 ³⁵
2 ³⁶	6/15 ³⁷	15/15 ³⁸	64 ³⁹	6/15 ⁴⁰	12/15 ⁴¹	12/15 ⁴²	94/75 ⁴³	4 ⁴⁴	1 ⁴⁵	3.0 ⁴⁶	2.0 ⁴⁷	12 ⁴⁸	67 ⁴⁹
3 ⁵⁰	15/15 ⁵¹	9/15 ⁵²	64 ⁵³	15/9 ⁵⁴	30/15 ⁵⁵	30/15 ⁵⁶	$\beta_{\text{ed1}}:47/15^{\text{57}}$ $\beta_{\text{ed2}}:47/15^{\text{58}}$	4 ⁵⁹	2 ⁶⁰	2.0 ⁶¹	1.0 ⁶²	15 ⁶³	92 ⁶⁴
4 ⁶⁵	2/15 ⁶⁶	15/15 ⁶⁷	64 ⁶⁸	2/15 ⁶⁹	4/15 ⁷⁰	2/15 ⁷¹	56/75 ⁷²	4 ⁷³	1 ⁷⁴	3.0 ⁷⁵	2.0 ⁷⁶	17 ⁷⁷	71 ⁷⁸
5 ⁷⁹	15/15 ⁽⁴⁾ ⁸⁰	15/15 ⁽⁴⁾ ⁸¹	64 ⁸²	15/15 ⁽⁴⁾ ⁸³	30/15 ⁸⁴	24/15 ⁸⁵	134/15 ⁸⁶	4 ⁸⁷	1 ⁸⁸	1.0 ⁸⁹	0.0 ⁹⁰	21 ⁹¹	81 ⁹²

Note 1: ΔACK , ΔNACK and $\Delta \text{CQI} = 8$ $A_{\text{hz}} = \beta_{\text{hz}}/\beta_{\text{e}} = 30/15$ $\beta_{\text{hz}} = 30/15 * \beta_{\text{e}}^{\text{93}}$

Note 2: CM = 1 for $\beta_{\text{e}}/\beta_{\text{d}} = 12/15$, $\beta_{\text{hz}}/\beta_{\text{e}} = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference⁹⁴

Note 3 : For subtest 1 the $\beta_{\text{e}}/\beta_{\text{d}}$ 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 $\beta_{\text{e}} = 10/15$ and $\beta_{\text{d}} = 15/15^{\text{95}}$

Note 4 : For subtest 5 the $\beta_{\text{e}}/\beta_{\text{d}}$ ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_{\text{e}} = 14/15$ and $\beta_{\text{d}} = 15/15^{\text{96}}$

Note 5 : Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g⁹⁷

Note 6: β_{ed} can not be set directly; it is set by Absolute Grant Value.⁹⁸

Table 7 : Subtests for UMTS Release 6 HSUPA

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

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

Table 8 : HSUPA UE category



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c) DC-HSDPA

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

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

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

Table E.5.0: Levels for HSDPA connection setup

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

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

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

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

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

Table 9 : settings of required H-Set 12 QPSK acc. To 3GPP 34.121

Note:

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



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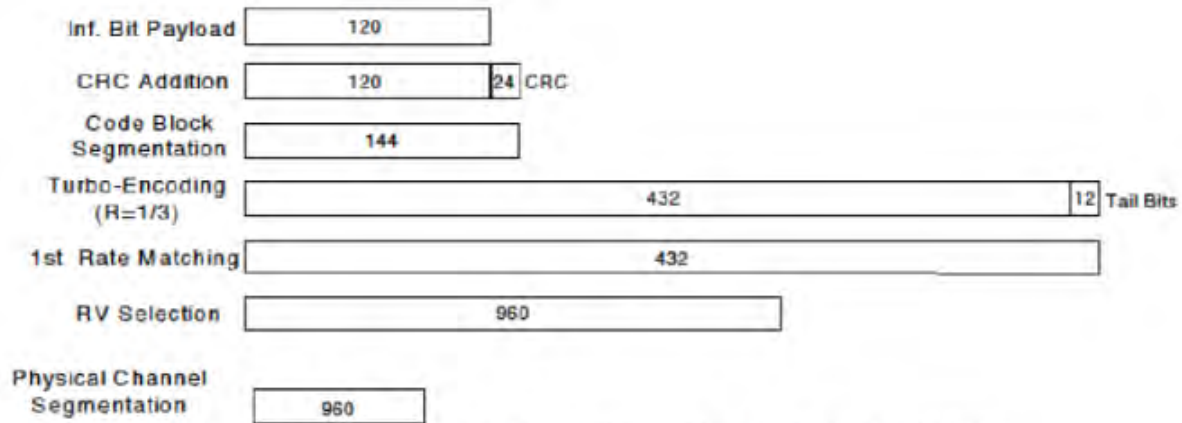


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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

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

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

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

Note:

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

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d) HSPA+

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

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

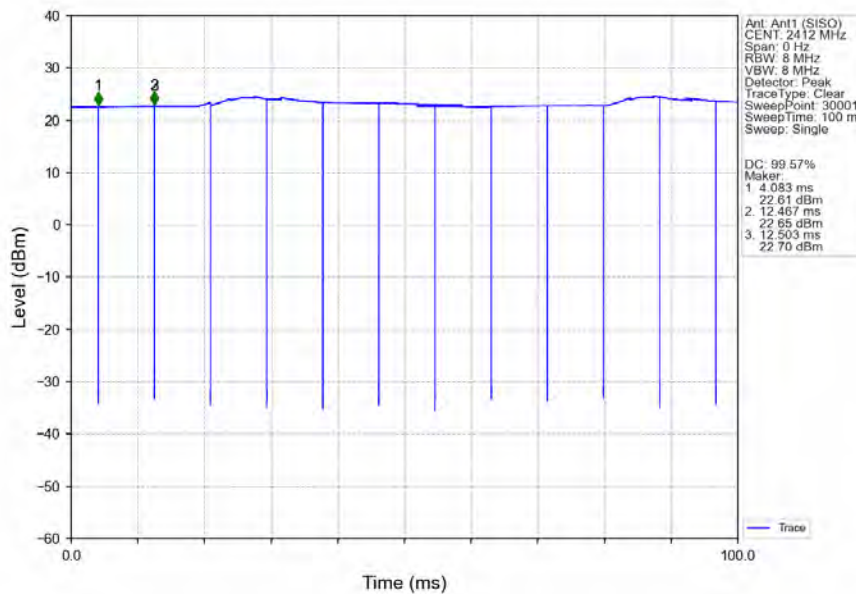
Sub-test	β_{c+} (Note3)	β_d	β_{HS+} (Note1)	β_{ec+}	β_{ed+} (2xSF2) (Note 4)	β_{ed+} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β_{ed1} : 30/15 β_{ed2} : 30/15	β_{ed3} : 24/15 β_{ed4} : 24/15	3.5	2.5	14	105	105
Note 1: Δ_{ACK},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

7.2.3 WIFI Test Configuration

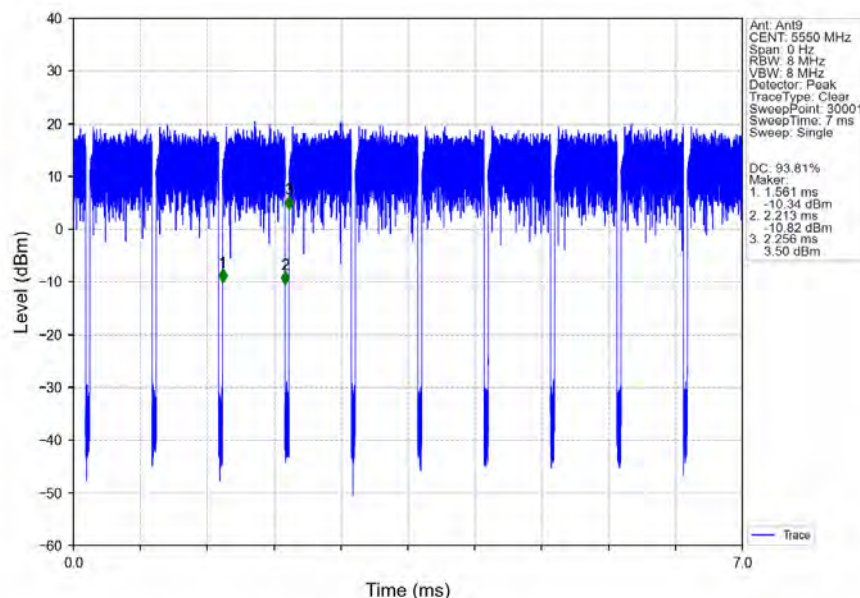
A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement.

7.2.3.1 Duty cycle

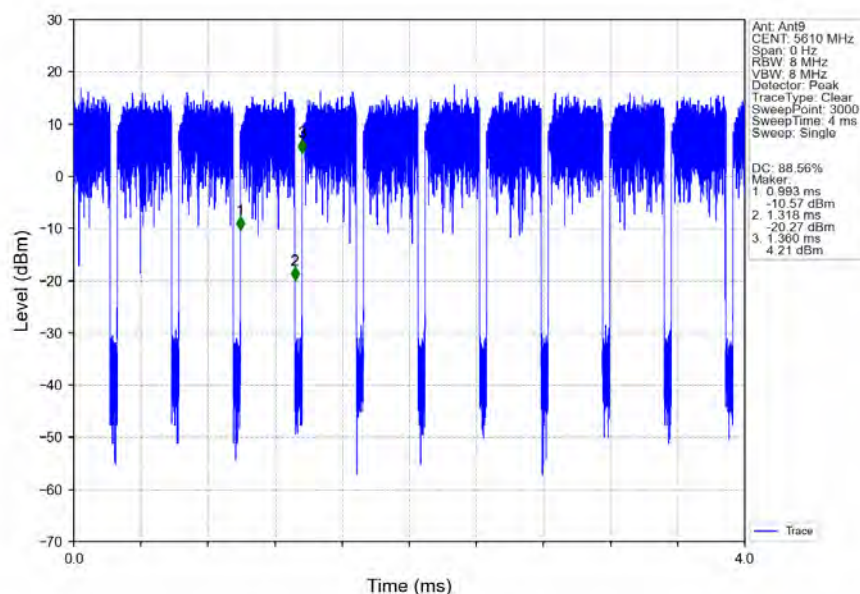
1) Wi-Fi 2.4GHz 802.11b:Duty cycle=99.57%



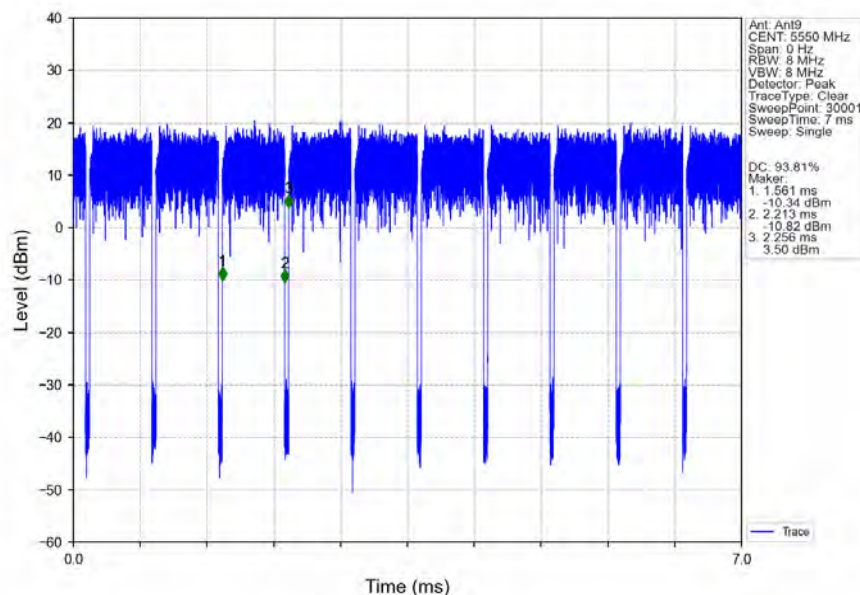
2) Wi-Fi 5GHz 802.11n40:Duty cycle=93.81%



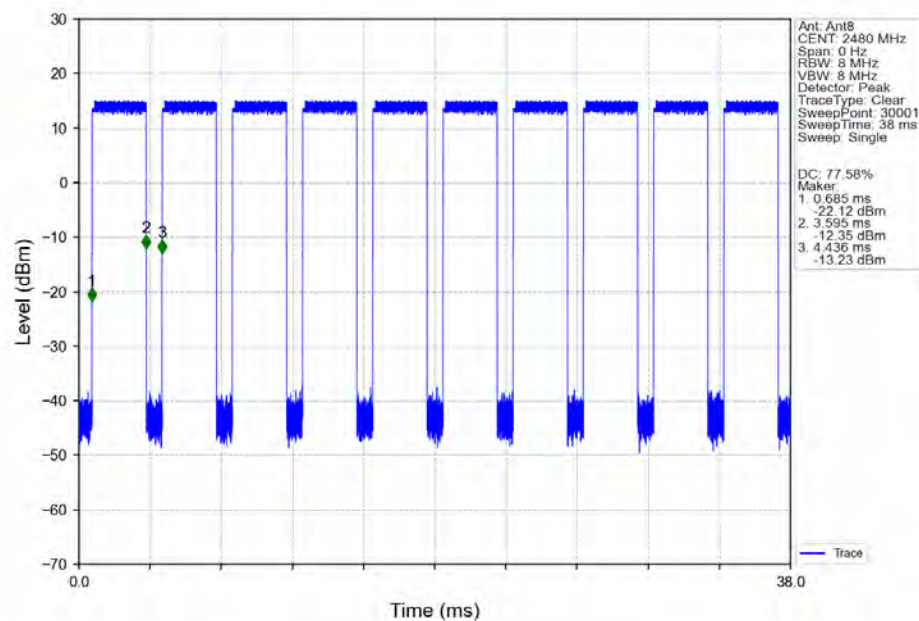
3) Wi-Fi 5GHz 802.11ac 80:Duty cycle=88.56 %



4) Wi-Fi 5GHz 802.11ax40:Duty cycle=93.81%



5) DH5 Duty Cycle=77.58%



7.2.3.2 Initial Test Position SAR Test Reduction Procedure

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

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

7.2.3.3 Subsequent Test Configuration Procedures

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

- 1) . When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
- 2) . When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.
- 3) . The number of channels in the initial test configuration and subsequent test configuration can be different due to differences in channel bandwidth. When SAR measurement is required for a subsequent test configuration and the channel bandwidth is smaller than that in the initial test configuration, all channels in the subsequent test configuration that overlap with the larger bandwidth channel tested in the initial test configuration should be used to determine the highest maximum output power channel. This step requires additional power measurement to identify the highest maximum output power channel in the subsequent test configuration to determine SAR test reduction.
 - a) SAR should first be measured for the channel with highest measured output power in the subsequent test configuration.
 - b) SAR for subsequent highest measured maximum output power channels in the subsequent test configuration is required only when the reported SAR of the preceding higher maximum output power channel(s) in the subsequent test configuration is > 1.2 W/kg or until all required channels are tested. i) For channels with the same measured maximum output power, SAR should be measured using the channel closest to the center frequency of the larger channel bandwidth channel in the initial test configuration.
- 4) . SAR measurements for the remaining highest specified maximum output power OFDM transmission mode configurations that have not been tested in the initial test configuration (highest maximum output) or subsequent test configuration(s) (subsequent next highest maximum output power) is determined by recursively applying the subsequent test configuration procedures in this section to the remaining configurations according to the following:
 - a) replace "subsequent test configuration" with "next subsequent test configuration" (i.e., subsequent next highest specified maximum output power configuration)
 - b) replace "initial test configuration" with "all tested higher output power configurations"

7.2.3.4 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.

7.2.3.5 5 GHz WiFi SAR Procedures

• U-NII-1 and U-NII-2A Bands

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

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

• U-NII-2C and U-NII-3 Bands

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

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



OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements

The initial test configuration for 5 GHz OFDM transmission modes is determined by the 802.11 configuration with the highest maximum output power specified for production units, including tune-up tolerance, in each standalone and aggregated frequency band. SAR for the initial test configuration is measured using the highest maximum output power channel determined by the default power measurement procedures. When multiple configurations in a frequency band have the same specified maximum output power, the initial test configuration is determined according to the following steps applied sequentially.

- 1) The largest channel bandwidth configuration is selected among the multiple configurations with the same specified maximum output power.
- 2) If multiple configurations have the same specified maximum output power and largest channel bandwidth, the lowest order modulation among the largest channel bandwidth configurations is selected.
- 3) If multiple configurations have the same specified maximum output power, largest channel bandwidth and lowest order modulation, the lowest data rate configuration among these configurations is selected.
- 4) When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n. After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following. These channel selection procedures apply to both the initial test configuration and subsequent test configuration(s), with respect to the default power measurement procedures or additional power measurements required for further SAR test reduction. The same procedures also apply to subsequent highest output power channel(s) selection.
 - a) The channel closest to mid-band frequency is selected for SAR measurement.
 - b) For channels with equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement.

• SAR Test Requirements for OFDM configurations

When SAR measurement is required for 802.11 a/n/ac OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. When the same transmitter and antenna(s) are used for U-NII-1 and U-NII-2A bands, additional SAR test reduction applies. When band gap channels between U-NII-2C band and 5.8 GHz U-NII-3 or §15.247 band are supported, the highest maximum output power transmission mode configuration and maximum output power channel across the bands must be used to determine SAR test reduction, according to the initial test configuration and subsequent test configuration requirements. 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.



7.2.4 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The Radio Communication Analyzer 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:

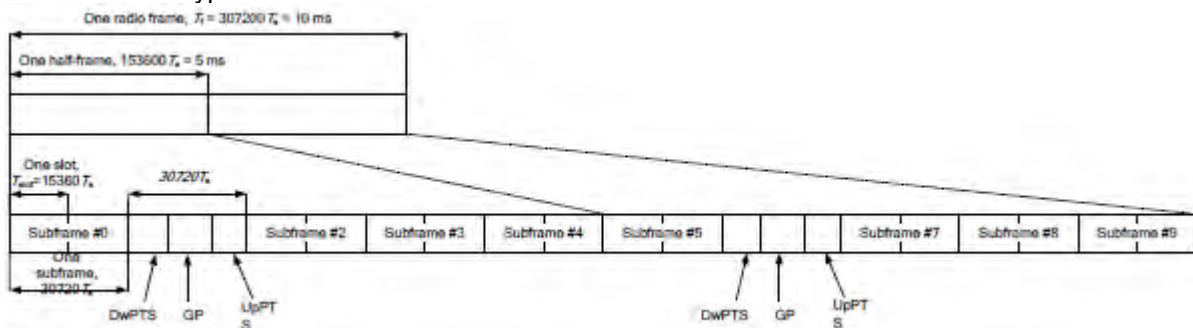


Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

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

Table 4.2-2: Uplink-downlink configurations.



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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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

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

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

A) Spectrum Plots for RB Configurations

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

B) MPR

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

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



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C) A-MPR

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

D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

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

2) QPSK with 50% RB allocation

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

3) QPSK with 100% RB allocation

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

4) Higher order modulations

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

F) LTE CA additional specification

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

- Intra-band carrier aggregation requirements for uplink.
- Intra-band and inter-band carrier aggregation requirements for downlink.

The 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 (Conducted RF Output Power). 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.

Uplink LTE CA
CA_7C
CA_38C
CA_41C
CA_66C

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

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

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

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

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

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

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

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

6)General PCC and SCC configuration selection procedure

- PCC uplink channel, channel bandwidth, modulation and RB configurations were selected based on section C)3)b)ii) of KDB 941225 D05 V01r02. All LTE bandwidth conducted powers needed for PCC



uplink configuration selection can be found in appendix E. The downlink PCC channel was paired with the selected PCC uplink channel according to normal configurations without carrier aggregation.

- To maximize aggregated bandwidth, highest channel bandwidth available for that CA combination was selected for SCC. For inter-band CA, the SCC downlink channels were selected near the middle of their transmission bands. For contiguous intra-band CA, the downlink channel spacing between the component carriers was set to multiple of 300 kHz less than the nominal channel spacing defined in section 5.4.1A of 3GPP TS 36.521. For non-contiguous intra-band CA, the downlink channel spacing between the component carriers was set to be larger than the nominal channel spacing and provided maximum separation between the component carriers.

All selected PCC and SCC(s) remained fully within the uplink/downlink transmission band of the respective component carrier.



DL CA Power Measurement Setup

c) Inter-band carrier aggregation requirements for uplink.

For Inter band Uplink CA SAR, MTK TA SAR algorithm in WWAN directly adds the time-averaged RF exposure from one 4G(LTE) and time-averaged RF exposure from another 4G(LTE). MTK TA SAR algorithm controls the total RF exposure to not exceed regulatory limit.

The Inter band Uplink CA as below table:

	SCC	B2		B4		B5		B7			B26		B66		
PCC		ANT4	ANT7	ANT4	ANT7	ANT0	ANT1	ANT4	ANT5	ANT7	ANT0	ANT1	ANT4	ANT5	ANT7
B2	Ant4														
	Ant5				✓			✓		✓			✓		✓
	Ant7														
B4	Ant4					✓	✓								
	Ant5					✓	✓	✓		✓					
	Ant7					✓	✓								
B5	Ant0							✓	✓	✓			✓	✓	✓
	Ant1							✓	✓	✓			✓	✓	✓
B7	Ant4										✓	✓			
	Ant5	✓	✓	✓	✓						✓	✓			
	Ant7										✓	✓			
B26	Ant0							✓	✓	✓					
	Ant1							✓	✓	✓					
B66	Ant4					✓	✓								
	Ant5	✓	✓			✓	✓								
	Ant7					✓	✓								

7.2.5 NR Band Test Configuration

1. NR Band 2/5/7/26/38/41/66/71 support SA mode and n5/7/38/41/66/71 support NSA mode. LTE+NR Band operations are possible only with LTE under EN-DC mode and the operations are possible as following table:

Band/Antenna		LTE Band 2			LTE Band 4	LTE Band 5		LTE Band 7			LTE Band 12	LTE Band 26		LTE Band 71		LTE Band 38	LTE Band 41	LTE Band 66		
		Ant4	Ant5	Ant7	Ant4	Ant0	Ant1	Ant4	Ant5	Ant7	Ant0	Ant0	Ant1	Ant0	Ant1	Ant4	Ant4	Ant4	Ant5	Ant7
n5	Ant0							✓	✓	✓								✓	✓	✓
	Ant1							✓	✓	✓								✓	✓	✓
n7	Ant5	✓			✓	✓	✓	✓										✓		
	Ant7	✓			✓	✓	✓	✓										✓		
n38	Ant5	✓			✓	✓	✓									✓		✓		
	Ant7	✓			✓	✓	✓									✓		✓		
n41	Ant4											✓	✓							
	Ant5	✓			✓							✓	✓				✓	✓		
	Ant7	✓			✓							✓	✓				✓	✓		
n66	Ant4																			
	Ant5	✓				✓		✓			✓			✓	✓			✓		
	Ant7	✓				✓		✓			✓			✓	✓			✓		
n71	Ant0	✓	✓	✓				✓	✓	✓								✓	✓	✓
	Ant1	✓	✓	✓				✓	✓	✓								✓	✓	✓

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

3. Band			n2	n5	n7	n26	n38	n41	n66	n71
Modulation	DFT-s-OFDM	QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CP-OFDM	QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max Duty Cycle			100%	100%	Yes	100%	100%	100%	100%	100%

Band	SCS	Bandwidth															
		5MHz	10MHz	15MHz	20MHz	25MHz	30MHz	35MHz	40MHz	45MHz	50MHz	60MHz	70MHz	80MHz	90MHz	100MHz	
n2	15 kHz	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
n5	15 kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
n7	15 kHz	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	N/A	N/A	N/A	N/A	N/A	
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
n26	15 kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
n38	15 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	30 kHz	N/A	Yes	Yes	Yes	Yes	Yes	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
n41	15 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	30 kHz	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
n66	15 kHz	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
n71	15 kHz	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	



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

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



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4. MPR

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

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

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

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

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

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

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

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

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

7. For EN-DC mode, MTK TA SAR algorithm in WWAN directly adds the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from 5G NR. MTK TA SAR algorithm controls the total RF exposure from both 4G and 5G NR to not exceed regulatory limit.



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8 Test Result

8.1 Measurement of RF Conducted Power

The detailed conducted power can be referred to Appendix E.

Note:

- 1) . For 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 $> \frac{1}{2}$ 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 $\frac{1}{4}$ 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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- 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.



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8.2 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.

WiFi 2.4G:

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

WiFi 5G:

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

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

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8.2.1 SAR Result of GSM850

GSM850 SAR Test Record											
Ant 0 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data state2											
Left cheek	GPRS 4TS	128/824.2	1:2.075	0.112	0.077	-0.14	26.51	28.00	1.409	0.158	22.1
Left tilted	GPRS 4TS	128/824.2	1:2.075	0.058	0.043	0.02	26.51	28.00	1.409	0.082	22.1
Right cheek	GPRS 4TS	128/824.2	1:2.075	0.131	0.096	-0.11	26.51	28.00	1.409	0.185	22.1
Right tilted	GPRS 4TS	128/824.2	1:2.075	0.073	0.053	0.12	26.51	28.00	1.409	0.103	22.1
Body worn Test data(Separate 15mm) state1											
Front side	GPRS 4TS	128/824.2	1:2.075	0.116	0.084	-0.19	26.51	28.00	1.409	0.163	22.1
Back side	GPRS 4TS	128/824.2	1:2.075	0.134	0.101	-0.02	26.51	28.00	1.409	0.189	21.8
Hotspot Test data(Separate 10mm) state1											
Front side	GPRS 4TS	128/824.2	1:2.075	0.171	0.108	-0.12	26.51	28.00	1.409	0.241	22.1
Back side	GPRS 4TS	128/824.2	1:2.075	0.215	0.137	0.04	26.51	28.00	1.409	0.303	22.1
Right side	GPRS 4TS	128/824.2	1:2.075	0.204	0.138	-0.08	26.51	28.00	1.409	0.287	22.1
Bottom side	GPRS 4TS	128/824.2	1:2.075	0.157	0.090	-0.02	26.51	28.00	1.409	0.221	22.1
Ant 1 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data state2											
Left cheek	GPRS 2TS	128/824.2	1:4.15	0.197	0.114	0.07	28.84	30.40	1.432	0.282	22.1
Left tilted	GPRS 2TS	128/824.2	1:4.15	0.055	0.035	0.13	28.84	30.40	1.432	0.079	22.1
Right cheek	GPRS 2TS	128/824.2	1:4.15	0.266	0.143	-0.01	28.84	30.40	1.432	0.381	21.8
Right tilted	GPRS 2TS	128/824.2	1:4.15	0.062	0.039	-0.19	28.84	30.40	1.432	0.089	22.1
Body worn Test data(Separate 15mm) state1											
Front side	GPRS 2TS	251/848.8	1:4.15	0.097	0.057	-0.09	29.51	31.40	1.545	0.150	22.1
Back side	GPRS 2TS	251/848.8	1:4.15	0.121	0.071	0.19	29.51	31.40	1.545	0.187	22.1
Hotspot Test data(Separate 10mm) state1											
Front side	GPRS 2TS	251/848.8	1:4.15	0.212	0.119	-0.11	29.51	31.40	1.545	0.328	22.1
Back side	GPRS 2TS	251/848.8	1:4.15	0.269	0.146	0.18	29.51	31.40	1.545	0.416	22.1
Left side	GPRS 2TS	251/848.8	1:4.15	0.431	0.247	-0.02	29.51	31.40	1.545	0.666	21.8



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8.2.2 SAR Result of GSM1900

GSM1900 SAR Test Record											
Ant 4 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data state2											
Left cheek	GPRS 4TS	512/1850.2	1:2.075	0.035	0.019	-0.15	23.13	25.00	1.538	0.054	22.1
Left tilted	GPRS 4TS	512/1850.2	1:2.075	0.016	0.006	-0.14	23.13	25.00	1.538	0.025	22.1
Right cheek	GPRS 4TS	512/1850.2	1:2.075	0.041	0.026	0.09	23.13	25.00	1.538	0.063	22.1
Right tilted	GPRS 4TS	512/1850.2	1:2.075	0.019	0.008	-0.10	23.13	25.00	1.538	0.029	22.1
Body worn Test data(Separate 15mm) state1											
Front side	GPRS 4TS	512/1850.2	1:2.075	0.062	0.037	-0.13	22.83	24.50	1.469	0.091	22.1
Back side	GPRS 4TS	512/1850.2	1:2.075	0.107	0.061	0.00	22.83	24.50	1.469	0.157	21.8
Hotspot Test data(Separate 10mm) state1											
Front side	GPRS 4TS	512/1850.2	1:2.075	0.121	0.068	0.04	22.83	24.50	1.469	0.177	22.1
Back side	GPRS 4TS	512/1850.2	1:2.075	0.225	0.122	-0.02	22.83	24.50	1.469	0.330	22.1
Left side	GPRS 4TS	512/1850.2	1:2.075	0.052	0.030	0.06	22.83	24.50	1.469	0.076	22.1
Bottom side	GPRS 4TS	512/1850.2	1:2.075	0.245	0.132	-0.18	22.83	24.50	1.469	0.360	21.8
Ant 5 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data state2											
Left cheek	GPRS 2TS	810/1909.8	1:4.15	0.365	0.241	-0.18	22.87	24.70	1.524	0.557	22.1
Left tilted	GPRS 2TS	810/1909.8	1:4.15	0.347	0.197	-0.16	22.87	24.70	1.524	0.528	22.1
Right cheek	GPRS 2TS	810/1909.8	1:4.15	0.599	0.336	-0.12	22.87	24.70	1.524	0.913	22.1
Right tilted	GPRS 2TS	810/1909.8	1:4.15	0.426	0.238	-0.12	22.87	24.70	1.524	0.649	22.1
Right cheek	GPRS 2TS	512/1850.2	1:4.15	0.566	0.321	-0.02	22.83	24.70	1.538	0.871	22.1
Right cheek	GPRS 2TS	661/1880	1:4.15	0.558	0.305	-0.02	22.77	24.70	1.560	0.870	22.1
Body worn Test data(Separate 15mm) state1											
Front side	GPRS 4TS	810/1909.8	1:2.075	0.091	0.055	0.13	23.62	24.70	1.282	0.117	22.1
Back side	GPRS 4TS	810/1909.8	1:2.075	0.089	0.055	0.15	23.62	24.70	1.282	0.114	22.1
Hotspot Test data(Separate 10mm) state1											
Front side	GPRS 4TS	810/1909.8	1:2.075	0.152	0.090	-0.07	23.62	24.70	1.282	0.195	22.1
Back side	GPRS 4TS	810/1909.8	1:2.075	0.180	0.110	0.12	23.62	24.70	1.282	0.231	22.1
Left side	GPRS 4TS	810/1909.8	1:2.075	0.080	0.047	0.05	23.62	24.70	1.282	0.103	22.1
Right side	GPRS 4TS	810/1909.8	1:2.075	0.012	0.005	0.12	23.62	24.70	1.282	0.015	22.1
Top side	GPRS 4TS	810/1909.8	1:2.075	0.216	0.125	-0.12	23.62	24.70	1.282	0.277	22.1



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8.2.3 SAR Result of WCDMA Band II

WB2 SAR Test Record											
Ant 4 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data state2											
Left cheek	RMC	9538/1907.6	1:1	0.035	0.018	0.05	23.59	25.00	1.384	0.048	22.5
Left tilted	RMC	9538/1907.6	1:1	0.018	0.009	-0.04	23.59	25.00	1.384	0.025	22.5
Right cheek	RMC	9538/1907.6	1:1	0.045	0.026	0.03	23.59	25.00	1.384	0.062	22.5
Right tilted	RMC	9538/1907.6	1:1	0.025	0.014	-0.18	23.59	25.00	1.384	0.035	22.5
Body worn Test data(Separate 15mm) state1											
Front side	RMC	9538/1907.6	1:1	0.080	0.047	-0.17	21.77	23.00	1.327	0.106	22.5
Back side	RMC	9538/1907.6	1:1	0.042	0.024	-0.12	21.77	23.00	1.327	0.056	22.5
Hotspot Test data(Separate 10mm) state1											
Front side	RMC	9538/1907.6	1:1	0.153	0.087	0.04	21.77	23.00	1.327	0.203	22.5
Back side	RMC	9538/1907.6	1:1	0.107	0.056	0.08	21.77	23.00	1.327	0.142	22.5
Left side	RMC	9538/1907.6	1:1	0.076	0.042	-0.16	21.77	23.00	1.327	0.101	22.5
Bottom side	RMC	9538/1907.6	1:1	0.077	0.041	-0.01	21.77	23.00	1.327	0.102	22.5
Ant 5 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data state2											
Left cheek	RMC	9538/1907.6	1:1	0.368	0.244	0.02	18.04	19.20	1.306	0.480	22.5
Left tilted	RMC	9538/1907.6	1:1	0.350	0.207	-0.12	18.04	19.20	1.306	0.458	22.5
Right cheek	RMC	9538/1907.6	1:1	0.566	0.322	0.00	18.04	19.20	1.306	0.739	22.5
Right tilted	RMC	9538/1907.6	1:1	0.410	0.221	0.08	18.04	19.20	1.306	0.536	22.5
Body worn Test data(Separate 15mm) state1											
Front side	RMC	9538/1907.6	1:1	0.015	0.009	0.19	24.32	24.70	1.091	0.016	22.5
Back side	RMC	9538/1907.6	1:1	0.274	0.165	-0.10	24.32	24.70	1.091	0.299	22.2
Hotspot Test data(Separate 10mm) state1											
Front side	RMC	9538/1907.6	1:1	0.032	0.017	0.11	24.32	24.70	1.091	0.035	22.5
Back side	RMC	9538/1907.6	1:1	0.479	0.287	-0.04	24.32	24.70	1.091	0.523	22.2
Left side	RMC	9538/1907.6	1:1	0.049	0.027	-0.11	24.32	24.70	1.091	0.054	22.5
Right side	RMC	9538/1907.6	1:1	0.025	0.010	-0.05	24.32	24.70	1.091	0.027	22.5
Top side	RMC	9538/1907.6	1:1	0.027	0.018	0.07	24.32	24.70	1.091	0.030	22.5



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8.2.4 SAR Result of WCDMA Band IV

WB4 SAR Test Record											
Ant 4 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data state2											
Left cheek	RMC	1513/1752.6	1:1	0.021	0.012	0.08	23.73	25.00	1.340	0.028	22.5
Left tilted	RMC	1513/1752.6	1:1	0.011	0.006	-0.14	23.73	25.00	1.340	0.015	22.5
Right cheek	RMC	1513/1752.6	1:1	0.032	0.018	-0.11	23.73	25.00	1.340	0.043	22.5
Right tilted	RMC	1513/1752.6	1:1	0.015	0.007	0.04	23.73	25.00	1.340	0.020	22.5
Body worn Test data(Separate 15mm) state1											
Front side	RMC	1312/1712.4	1:1	0.021	0.014	-0.05	21.81	23.00	1.315	0.028	22.5
Back side	RMC	1312/1712.4	1:1	0.031	0.018	0.05	21.81	23.00	1.315	0.041	22.5
Hotspot Test data(Separate 10mm) state1											
Front side	RMC	1312/1712.4	1:1	0.033	0.021	0.02	21.81	23.00	1.315	0.043	22.5
Back side	RMC	1312/1712.4	1:1	0.050	0.027	-0.07	21.81	23.00	1.315	0.066	22.5
Left side	RMC	1312/1712.4	1:1	0.018	0.009	0.16	21.81	23.00	1.315	0.024	22.5
Bottom side	RMC	1312/1712.4	1:1	0.087	0.046	-0.19	21.81	23.00	1.315	0.114	22.5
Ant 5 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data state2											
Left cheek	RMC	1312/1712.4	1:1	0.599	0.397	-0.03	19.08	20.20	1.294	0.775	21.8
Left tilted	RMC	1312/1712.4	1:1	0.622	0.384	-0.07	19.08	20.20	1.294	0.805	21.8
Right cheek	RMC	1312/1712.4	1:1	0.814	0.469	-0.01	19.08	20.20	1.294	1.053	21.8
Right tilted	RMC	1312/1712.4	1:1	0.622	0.345	0.18	19.08	20.20	1.294	0.805	21.8
Right cheek	RMC	1412/1732.4	1:1	0.697	0.413	-0.16	18.67	20.20	1.422	0.991	21.8
Right cheek	RMC	1513/1752.6	1:1	0.670	0.397	0.16	18.73	20.20	1.403	0.941	21.8
Right cheek with Repeat	RMC	1312/1712.4	1:1	0.804	0.455	-0.02	19.08	20.20	1.294	1.041	21.8
Head Evaluate Data state4											
Left cheek	RMC	1312/1712.4	1:1	0.599	0.397	-0.03	19.08	18.70	0.916	0.549	21.8
Left tilted	RMC	1312/1712.4	1:1	0.622	0.384	-0.07	19.08	18.70	0.916	0.570	21.8
Right cheek	RMC	1312/1712.4	1:1	0.814	0.469	-0.01	19.08	18.70	0.916	0.746	21.8
Right tilted	RMC	1312/1712.4	1:1	0.622	0.345	0.18	19.08	18.70	0.916	0.570	21.8
Right cheek	RMC	1412/1732.4	1:1	0.697	0.413	-0.16	18.67	18.70	1.007	0.702	21.8
Right cheek	RMC	1513/1752.6	1:1	0.670	0.397	0.16	18.73	18.70	0.993	0.666	21.8
Right cheek with Repeat	RMC	1312/1712.4	1:1	0.804	0.455	-0.02	19.08	18.70	0.916	0.737	21.8
Body worn Test data(Separate 15mm) state1											
Front side	RMC	1513/1752.6	1:1	0.013	0.007	0.02	22.51	24.20	1.476	0.020	22.5
Back side	RMC	1513/1752.6	1:1	0.179	0.118	-0.03	22.51	24.20	1.476	0.264	22.2
Hotspot Test data(Separate 10mm) state1											
Front side	RMC	1513/1752.6	1:1	0.019	0.011	0.19	22.51	24.20	1.476	0.029	22.5



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Back side	RMC	1513/1752.6	1:1	0.322	0.211	-0.06	22.51	24.20	1.476	0.475	22.2
Left side	RMC	1513/1752.6	1:1	0.012	0.006	-0.15	22.51	24.20	1.476	0.018	22.5
Right side	RMC	1513/1752.6	1:1	0.011	0.006	-0.15	22.51	24.20	1.476	0.016	22.5
Top side	RMC	1513/1752.6	1:1	0.013	0.006	0.04	22.51	24.20	1.476	0.019	22.5

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right cheek	1312/1712.4	0.814	0.804	1.012	N/A	N/A

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

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

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

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

5) 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. The repeated measurement results must be clearly identified in the SAR report.



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8.2.5 SAR Result of WCDMA Band V

WB5 SAR Test Record											
Ant 0 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data state2											
Left cheek	RMC	4132/826.4	1:1	0.139	0.096	-0.17	24.35	25.00	1.161	0.161	22.3
Left tilted	RMC	4132/826.4	1:1	0.074	0.055	0.10	24.35	25.00	1.161	0.086	22.3
Right cheek	RMC	4132/826.4	1:1	0.159	0.116	0.15	24.35	25.00	1.161	0.185	22.3
Right tilted	RMC	4132/826.4	1:1	0.096	0.072	-0.16	24.35	25.00	1.161	0.111	22.3
Body worn Test data(Separate 15mm) state1											
Front side	RMC	4132/826.4	1:1	0.124	0.089	0.07	24.35	25.00	1.161	0.144	22.1
Back side	RMC	4132/826.4	1:1	0.141	0.107	0.02	24.35	25.00	1.161	0.164	22.2
Hotspot Test data(Separate 10mm) state1											
Front side	RMC	4132/826.4	1:1	0.149	0.096	-0.16	24.35	25.00	1.161	0.173	22.1
Back side	RMC	4132/826.4	1:1	0.184	0.117	0.12	24.35	25.00	1.161	0.214	22.1
Right side	RMC	4132/826.4	1:1	0.177	0.117	-0.16	24.35	25.00	1.161	0.206	22.1
Bottom side	RMC	4132/826.4	1:1	0.133	0.077	-0.09	24.35	25.00	1.161	0.154	22.1
Ant 1 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data state2											
Left cheek	RMC	4233/846.6	1:1	0.395	0.224	0.13	24.01	24.40	1.094	0.432	22.3
Left tilted	RMC	4233/846.6	1:1	0.100	0.068	-0.03	24.01	24.40	1.094	0.109	22.3
Right cheek	RMC	4233/846.6	1:1	0.500	0.272	0.03	24.01	24.40	1.094	0.547	22.3
Right tilted	RMC	4233/846.6	1:1	0.124	0.076	-0.07	24.01	24.40	1.094	0.136	22.3
Body worn Test data(Separate 15mm) state1											
Front side	RMC	4233/846.6	1:1	0.098	0.058	0.07	24.01	24.40	1.094	0.107	22.1
Back side	RMC	4233/846.6	1:1	0.118	0.070	0.18	24.01	24.40	1.094	0.129	22.1
Hotspot Test data(Separate 10mm) state1											
Front side	RMC	4233/846.6	1:1	0.281	0.157	0.03	24.01	24.40	1.094	0.307	22.1
Back side	RMC	4233/846.6	1:1	0.340	0.189	-0.02	24.01	24.40	1.094	0.372	22.1
Left side	RMC	4233/846.6	1:1	0.561	0.319	0.00	24.01	24.40	1.094	0.614	22.3

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8.2.6 SAR Result of LTE Band 2

LTE Band 2 SAR Test Record												
Ant 4 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data (1RB) state2												
Left cheek	20	QPSK 1_50	19100/1900	1:1	0.047	0.029	0.17	22.70	24.50	1.514	0.071	22.5
Left tilted	20	QPSK 1_50	19100/1900	1:1	0.025	0.018	-0.14	22.70	24.50	1.514	0.038	22.5
Right cheek	20	QPSK 1_50	19100/1900	1:1	0.058	0.035	0.13	22.70	24.50	1.514	0.088	22.5
Right tilted	20	QPSK 1_50	19100/1900	1:1	0.032	0.021	-0.04	22.70	24.50	1.514	0.048	22.5
Head Test Data (50%RB) state2												
Left cheek	20	QPSK 50_50	18700/1860	1:1	0.046	0.029	0.13	22.71	23.50	1.199	0.055	22.5
Left tilted	20	QPSK 50_50	18700/1860	1:1	0.021	0.015	-0.08	22.71	23.50	1.199	0.025	22.5
Right cheek	20	QPSK 50_50	18700/1860	1:1	0.060	0.036	-0.01	22.71	23.50	1.199	0.072	22.5
Right tilted	20	QPSK 50_50	18700/1860	1:1	0.038	0.024	0.12	22.71	23.50	1.199	0.046	22.5
Body worn Test data (Separate 15mm 1RB) state1												
Front side	20	QPSK 1_50	18700/1860	1:1	0.070	0.042	0.12	21.40	23.00	1.445	0.101	22.1
Back side	20	QPSK 1_50	18700/1860	1:1	0.126	0.072	0.14	21.40	23.00	1.445	0.182	22.1
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	20	QPSK 50_50	18700/1860	1:1	0.068	0.042	-0.08	21.41	23.00	1.442	0.098	22.1
Back side	20	QPSK 50_50	18700/1860	1:1	0.131	0.074	-0.16	21.41	23.00	1.442	0.189	22.1
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	20	QPSK 1_50	18700/1860	1:1	0.155	0.089	-0.08	21.40	23.00	1.445	0.224	22.1
Back side	20	QPSK 1_50	18700/1860	1:1	0.301	0.159	-0.13	21.40	23.00	1.445	0.436	22.1
Left side	20	QPSK 1_50	18700/1860	1:1	0.078	0.043	-0.07	21.40	23.00	1.445	0.113	22.1
Bottom side	20	QPSK 1_50	18700/1860	1:1	0.337	0.176	0.07	21.40	23.00	1.445	0.487	22.1
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	20	QPSK 50_50	18700/1860	1:1	0.155	0.090	0.18	21.41	23.00	1.442	0.224	22.1
Back side	20	QPSK 50_50	18700/1860	1:1	0.302	0.162	0.04	21.41	23.00	1.442	0.436	22.1
Left side	20	QPSK 50_50	18700/1860	1:1	0.076	0.043	0.13	21.41	23.00	1.442	0.109	22.1
Bottom side	20	QPSK 50_50	18700/1860	1:1	0.346	0.187	0.02	21.41	23.00	1.442	0.499	22.1
Ant 5 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data (1RB) state2												
Left cheek	20	QPSK 1_0	19100/1900	1:1	0.367	0.243	0.16	17.94	19.50	1.432	0.525	22.5
Left tilted	20	QPSK 1_0	19100/1900	1:1	0.368	0.215	-0.12	17.94	19.50	1.432	0.527	22.5
Right cheek	20	QPSK 1_0	19100/1900	1:1	0.557	0.317	0.05	17.94	19.50	1.432	0.798	22.1
Right tilted	20	QPSK 1_0	19100/1900	1:1	0.407	0.220	0.13	17.94	19.50	1.432	0.583	22.5
Head Test Data (50%RB) state2												
Left cheek	20	QPSK 50_50	18700/1860	1:1	0.366	0.024	-0.02	17.98	19.50	1.419	0.519	22.5
Left tilted	20	QPSK 50_50	18700/1860	1:1	0.354	0.207	-0.10	17.98	19.50	1.419	0.503	22.5



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Right cheek	20	QPSK 50_50	18700/1860	1:1	0.543	0.316	0.11	17.98	19.50	1.419	0.770	22.5
Right tilted	20	QPSK 50_50	18700/1860	1:1	0.398	0.214	0.16	17.98	19.50	1.419	0.565	22.5
Body worn Test data (Separate 15mm 1RB) state1												
Front side	20	QPSK 1_50	18900/1880	1:1	0.176	0.108	0.07	22.97	24.00	1.268	0.223	22.1
Back side	20	QPSK 1_50	18900/1880	1:1	0.182	0.110	-0.04	22.97	24.00	1.268	0.231	22.3
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	20	QPSK 50_25	18700/1860	1:1	0.130	0.079	0.06	22.07	23.00	1.239	0.161	22.1
Back side	20	QPSK 50_25	18700/1860	1:1	0.127	0.078	0.08	22.07	23.00	1.239	0.158	22.1
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	20	QPSK 1_50	18900/1880	1:1	0.404	0.244	0.11	22.97	24.00	1.268	0.513	22.1
Back side	20	QPSK 1_50	18900/1880	1:1	0.415	0.250	0.17	22.97	24.00	1.268	0.526	22.1
Left side	20	QPSK 1_50	18900/1880	1:1	0.185	0.105	-0.10	22.97	24.00	1.268	0.235	22.1
Right side	20	QPSK 1_50	18900/1880	1:1	0.082	0.048	0.01	22.97	24.00	1.268	0.104	22.1
Top side	20	QPSK 1_50	18900/1880	1:1	0.452	0.268	-0.02	22.97	24.00	1.268	0.573	22.1
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	20	QPSK 50_25	18700/1860	1:1	0.287	0.174	-0.05	22.07	23.00	1.239	0.355	22.1
Back side	20	QPSK 50_25	18700/1860	1:1	0.306	0.185	0.00	22.07	23.00	1.239	0.379	22.1
Left side	20	QPSK 50_25	18700/1860	1:1	0.131	0.073	0.05	22.07	23.00	1.239	0.162	22.1
Right side	20	QPSK 50_25	18700/1860	1:1	0.062	0.036	-0.10	22.07	23.00	1.239	0.077	22.1
Top side	20	QPSK 50_25	18700/1860	1:1	0.347	0.199	-0.05	22.07	23.00	1.239	0.429	22.1
Ant 7 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(℃)
Head Test Data (1RB) state2												
Left cheek	20	QPSK 1_99	19100/1900	1:1	0.196	0.103	-0.19	19.60	20.00	1.096	0.215	22.5
Left tilted	20	QPSK 1_99	19100/1900	1:1	0.073	0.043	-0.13	19.60	20.00	1.096	0.080	22.5
Right cheek	20	QPSK 1_99	19100/1900	1:1	0.053	0.032	0.08	19.60	20.00	1.096	0.058	22.5
Right tilted	20	QPSK 1_99	19100/1900	1:1	0.050	0.030	0.14	19.60	20.00	1.096	0.055	22.5
Head Test Data (50%RB) state2												
Left cheek	20	QPSK 50_50	18700/1860	1:1	0.190	0.107	0.03	19.70	20.00	1.072	0.204	22.5
Left tilted	20	QPSK 50_50	18700/1860	1:1	0.073	0.043	-0.06	19.70	20.00	1.072	0.078	22.5
Right cheek	20	QPSK 50_50	18700/1860	1:1	0.050	0.031	-0.15	19.70	20.00	1.072	0.054	22.5
Right tilted	20	QPSK 50_50	18700/1860	1:1	0.048	0.030	-0.14	19.70	20.00	1.072	0.051	22.5
Body worn Test data (Separate 15mm 1RB) state1												
Front side	20	QPSK 1_50	19100/1900	1:1	0.032	0.019	0.18	20.67	21.00	1.079	0.035	22.1
Back side	20	QPSK 1_50	19100/1900	1:1	0.041	0.026	-0.14	20.67	21.00	1.079	0.044	22.1
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	20	QPSK 50_50	18700/1860	1:1	0.021	0.014	0.00	19.85	20.00	1.035	0.022	22.1
Back side	20	QPSK 50_50	18700/1860	1:1	0.033	0.020	-0.17	19.85	20.00	1.035	0.034	22.1
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	20	QPSK 1_50	19100/1900	1:1	0.048	0.021	-0.06	20.67	21.00	1.079	0.052	22.1
Back side	20	QPSK 1_50	19100/1900	1:1	0.067	0.034	-0.02	20.67	21.00	1.079	0.072	22.1
Right side	20	QPSK 1_50	19100/1900	1:1	0.022	0.010	0.12	20.67	21.00	1.079	0.024	22.1
Top side	20	QPSK 1_50	19100/1900	1:1	0.030	0.015	0.14	20.67	21.00	1.079	0.032	22.1



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Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	20	QPSK 50_50	18700/1860	1:1	0.042	0.021	-0.17	19.85	20.00	1.035	0.043	22.1
Back side	20	QPSK 50_50	18700/1860	1:1	0.054	0.028	0.17	19.85	20.00	1.035	0.056	22.1
Right side	20	QPSK 50_50	18700/1860	1:1	0.020	0.011	0.17	19.85	20.00	1.035	0.021	22.1
Top side	20	QPSK 50_50	18700/1860	1:1	0.029	0.017	-0.06	19.85	20.00	1.035	0.030	22.1



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8.2.7 SAR Result of LTE Band 5

LTE Band 5 SAR Test Record												
Ant 0 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data (1RB) state2												
Left cheek	10	QPSK 1_0	20525/836.5	1:1	0.046	0.032	0.09	23.87	25.00	1.297	0.060	22.3
Left tilted	10	QPSK 1_0	20525/836.5	1:1	0.021	0.007	-0.12	23.87	25.00	1.297	0.027	22.3
Right cheek	10	QPSK 1_0	20525/836.5	1:1	0.165	0.121	-0.15	23.87	25.00	1.297	0.214	22.3
Right tilted	10	QPSK 1_0	20525/836.5	1:1	0.031	0.012	0.14	23.87	25.00	1.297	0.040	22.3
Head Test Data (50%RB) state2												
Left cheek	10	QPSK 25_0	20525/836.5	1:1	0.035	0.010	-0.17	23.02	24.00	1.253	0.044	22.3
Left tilted	10	QPSK 25_0	20525/836.5	1:1	0.016	0.005	0.08	23.02	24.00	1.253	0.020	22.3
Right cheek	10	QPSK 25_0	20525/836.5	1:1	0.140	0.102	0.08	23.02	24.00	1.253	0.175	22.3
Right tilted	10	QPSK 25_0	20525/836.5	1:1	0.026	0.009	0.18	23.02	24.00	1.253	0.033	22.3
Body worn Test data (Separate 15mm 1RB) state1												
Front side	10	QPSK 1_0	20525/836.5	1:1	0.113	0.080	0.07	23.87	25.00	1.297	0.147	22.1
Back side	10	QPSK 1_0	20525/836.5	1:1	0.126	0.090	-0.09	23.87	25.00	1.297	0.163	22.1
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	10	QPSK 25_0	20525/836.5	1:1	0.096	0.067	0.02	23.02	24.00	1.253	0.120	22.1
Back side	10	QPSK 25_0	20525/836.5	1:1	0.108	0.076	-0.03	23.02	24.00	1.253	0.135	22.1
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	10	QPSK 1_0	20525/836.5	1:1	0.159	0.102	-0.01	23.87	25.00	1.297	0.206	22.1
Back side	10	QPSK 1_0	20525/836.5	1:1	0.209	0.131	0.11	23.87	25.00	1.297	0.271	22.1
Right side	10	QPSK 1_0	20525/836.5	1:1	0.176	0.097	-0.03	23.87	25.00	1.297	0.228	22.1
Bottom side	10	QPSK 1_0	20525/836.5	1:1	0.138	0.079	0.02	23.87	25.00	1.297	0.179	22.1
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	10	QPSK 25_0	20525/836.5	1:1	0.130	0.083	-0.02	23.02	24.00	1.253	0.163	22.1
Back side	10	QPSK 25_0	20525/836.5	1:1	0.179	0.111	-0.05	23.02	24.00	1.253	0.224	22.1
Right side	10	QPSK 25_0	20525/836.5	1:1	0.172	0.114	-0.13	23.02	24.00	1.253	0.216	22.1
Bottom side	10	QPSK 25_0	20525/836.5	1:1	0.127	0.074	0.02	23.02	24.00	1.253	0.159	22.1
Ant 1 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data (1RB) state2												
Left cheek	10	QPSK 1_49	20525/836.5	1:1	0.437	0.253	-0.07	23.74	24.60	1.219	0.533	22.3
Left tilted	10	QPSK 1_49	20525/836.5	1:1	0.108	0.073	0.14	23.74	24.60	1.219	0.131	22.3
Right cheek	10	QPSK 1_49	20525/836.5	1:1	0.514	0.274	0.05	23.74	24.60	1.219	0.627	22.3
Right tilted	10	QPSK 1_49	20525/836.5	1:1	0.131	0.080	0.16	23.74	24.60	1.219	0.160	22.3
Head Test Data (50%RB) state2												
Left cheek	10	QPSK 25_25	20525/836.5	1:1	0.351	0.203	-0.09	22.79	23.60	1.205	0.423	22.3
Left tilted	10	QPSK 25_25	20525/836.5	1:1	0.085	0.058	-0.02	22.79	23.60	1.205	0.103	22.3



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Right cheek	10	QPSK 25_25	20525/836.5	1:1	0.412	0.226	0.02	22.79	23.60	1.205	0.496	22.3
Right tilted	10	QPSK 25_25	20525/836.5	1:1	0.104	0.063	-0.07	22.79	23.60	1.205	0.126	22.3
Body worn Test data (Separate 15mm 1RB) state1												
Front side	10	QPSK 1_49	20525/836.5	1:1	0.152	0.092	0.18	23.74	24.60	1.219	0.185	22.1
Back side	10	QPSK 1_49	20525/836.5	1:1	0.183	0.116	-0.06	23.74	24.60	1.219	0.223	22.3
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	10	QPSK 25_25	20525/836.5	1:1	0.124	0.073	-0.17	22.79	23.60	1.205	0.150	22.1
Back side	10	QPSK 25_25	20525/836.5	1:1	0.148	0.088	-0.04	22.79	23.60	1.205	0.178	22.1
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	10	QPSK 1_49	20525/836.5	1:1	0.252	0.140	-0.04	23.74	24.60	1.219	0.307	22.1
Back side	10	QPSK 1_49	20525/836.5	1:1	0.310	0.170	-0.18	23.74	24.60	1.219	0.377	22.1
Left side	10	QPSK 1_49	20525/836.5	1:1	0.514	0.294	-0.01	23.74	24.60	1.219	0.627	22.3
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	10	QPSK 25_25	20525/836.5	1:1	0.193	0.110	0.00	22.79	23.60	1.205	0.233	22.1
Back side	10	QPSK 25_25	20525/836.5	1:1	0.240	0.134	-0.06	22.79	23.60	1.205	0.289	22.1
Left side	10	QPSK 25_25	20525/836.5	1:1	0.422	0.215	-0.02	22.79	23.60	1.205	0.509	22.1



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8.2.8 SAR Result of LTE Band 7

LTE Band 7 SAR Test Record												
Ant 4 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data (1RB) state2												
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.104	0.056	-0.03	23.16	24.70	1.426	0.148	22.5
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.051	0.021	-0.18	23.16	24.70	1.426	0.073	22.5
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.054	0.028	-0.19	23.16	24.70	1.426	0.077	22.5
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.018	0.009	-0.06	23.16	24.70	1.426	0.026	22.5
Left cheek	20	QPSK 1_0	21350/2560	1:1	0.111	0.062	-0.09	23.81	24.00	1.045	0.116	22.5
		QPSK 1_99	21152/2540.2									
Head Test Data (50%RB) state2												
Left cheek	20	QPSK 50_25	20850/2510	1:1	0.099	0.055	-0.16	23.15	23.70	1.135	0.112	22.5
Left tilted	20	QPSK 50_25	20850/2510	1:1	0.048	0.019	-0.07	23.15	23.70	1.135	0.054	22.5
Right cheek	20	QPSK 50_25	20850/2510	1:1	0.059	0.031	-0.14	23.15	23.70	1.135	0.067	22.5
Right tilted	20	QPSK 50_25	20850/2510	1:1	0.021	0.007	-0.05	23.15	23.70	1.135	0.024	22.5
Body worn Test data (Separate 15mm 1RB) state1												
Front side	20	QPSK 1_99	20850/2510	1:1	0.082	0.044	-0.18	21.68	23.20	1.419	0.116	22.1
Back side	20	QPSK 1_99	20850/2510	1:1	0.126	0.064	-0.02	21.68	23.20	1.419	0.179	22.1
Back side	20	QPSK 1_0	21350/2560	1:1	0.135	0.075	-0.08	22.44	22.50	1.014	0.137	22.5
		QPSK 1_99	21152/2540.2									
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	20	QPSK 50_25	20850/2510	1:1	0.098	0.052	-0.19	21.65	23.20	1.429	0.140	22.1
Back side	20	QPSK 50_25	20850/2510	1:1	0.141	0.071	-0.15	21.65	23.20	1.429	0.201	22.1
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	20	QPSK 1_99	20850/2510	1:1	0.124	0.063	0.10	21.68	23.20	1.419	0.176	22.1
Back side	20	QPSK 1_99	20850/2510	1:1	0.220	0.103	0.19	21.68	23.20	1.419	0.313	22.1
Left side	20	QPSK 1_99	20850/2510	1:1	0.043	0.023	0.01	21.68	23.20	1.419	0.062	22.1
Bottom side	20	QPSK 1_99	20850/2510	1:1	0.250	0.126	-0.14	21.68	23.20	1.419	0.354	22.1
Bottom side	20	QPSK 1_0	21350/2560	1:1	0.266	0.119	-0.02	22.44	22.50	1.014	0.270	22.5
		QPSK 1_99	21152/2540.2									
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	20	QPSK 50_25	20850/2510	1:1	0.135	0.070	0.10	21.65	23.20	1.429	0.193	22.1
Back side	20	QPSK 50_25	20850/2510	1:1	0.235	0.112	0.07	21.65	23.20	1.429	0.336	22.1
Left side	20	QPSK 50_25	20850/2510	1:1	0.046	0.024	0.17	21.65	23.20	1.429	0.065	22.1
Bottom side	20	QPSK 50_25	20850/2510	1:1	0.288	0.145	0.00	21.65	23.20	1.429	0.412	22.1

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Ant 5 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data (1RB) state2												
Left cheek	20	QPSK 1_99	21350/2560	1:1	0.308	0.175	-0.12	14.96	16.50	1.426	0.439	22.1
Left tilted	20	QPSK 1_99	21350/2560	1:1	0.296	0.158	-0.15	14.96	16.50	1.426	0.421	22.1
Right cheek	20	QPSK 1_99	21350/2560	1:1	0.751	0.357	0.07	14.96	16.50	1.426	1.071	22.1
Right tilted	20	QPSK 1_99	21350/2560	1:1	0.560	0.299	0.10	14.96	16.50	1.426	0.798	22.1
Right cheek	20	QPSK 1_99	20850/2510	1:1	0.553	0.273	0.01	14.68	16.50	1.521	0.841	22.1
Right cheek	20	QPSK 1_99	21100/2535	1:1	0.679	0.335	0.07	14.72	16.50	1.507	1.023	22.1
Right cheek	20	QPSK 1_0	21350/2560	1:1	0.745	0.359	0.09	14.65	15.80	1.303	0.971	22.5
		QPSK 1_99	21152/2540.2									
Head Test Data (50%RB) state2												
Left cheek	20	QPSK 50_50	21350/2560	1:1	0.307	0.173	-0.14	15.05	16.50	1.396	0.429	22.1
Left tilted	20	QPSK 50_50	21350/2560	1:1	0.296	0.158	0.16	15.05	16.50	1.396	0.413	22.1
Right cheek	20	QPSK 50_50	21350/2560	1:1	0.746	0.369	-0.02	15.05	16.50	1.396	1.041	22.1
Right tilted	20	QPSK 50_50	21350/2560	1:1	0.564	0.301	-0.05	15.05	16.50	1.396	0.788	22.1
Right cheek	20	QPSK 50_50	20850/2510	1:1	0.539	0.266	-0.01	14.70	16.50	1.514	0.815	22.1
Right cheek	20	QPSK 50_50	21100/2535	1:1	0.673	0.332	-0.13	14.71	16.50	1.510	1.016	22.1
Head Test Data (100%RB) state2												
Right cheek	20	QPSK 100_0	21350/2560	1:1	0.701	0.321	0.10	14.94	16.50	1.432	1.004	22.1
Body worn Test data (Separate 15mm 1RB) state1												
Front side	20	QPSK 1_50	21350/2560	1:1	0.161	0.081	0.06	19.96	21.50	1.426	0.230	22.1
Back side	20	QPSK 1_50	21350/2560	1:1	0.175	0.092	-0.04	19.96	21.50	1.426	0.249	22.1
Back side	20	QPSK 1_0	21350/2560	1:1	0.171	0.085	-0.11	19.62	20.80	1.312	0.224	22.5
		QPSK 1_99	21152/2540.2									
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	20	QPSK 50_25	21350/2560	1:1	0.159	0.077	-0.03	20.02	21.50	1.406	0.224	22.1
Back side	20	QPSK 50_25	21350/2560	1:1	0.171	0.088	0.04	20.02	21.50	1.406	0.240	22.1
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	20	QPSK 1_50	21350/2560	1:1	0.337	0.170	-0.12	19.96	21.50	1.426	0.480	22.1
Back side	20	QPSK 1_50	21350/2560	1:1	0.329	0.172	0.03	19.96	21.50	1.426	0.469	22.1
Left side	20	QPSK 1_50	21350/2560	1:1	0.175	0.083	-0.05	19.96	21.50	1.426	0.250	22.1
Right side	20	QPSK 1_50	21350/2560	1:1	0.045	0.026	0.09	19.96	21.50	1.426	0.064	22.1
Top side	20	QPSK 1_50	21350/2560	1:1	0.303	0.149	0.09	19.96	21.50	1.426	0.431	22.1
Front side	20	QPSK 1_0	21350/2560	1:1	0.331	0.165	0.01	19.62	20.80	1.312	0.434	22.5
		QPSK 1_99	21152/2540.2									
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	20	QPSK 50_25	21350/2560	1:1	0.340	0.172	0.19	20.02	21.50	1.406	0.478	22.1
Back side	20	QPSK 50_25	21350/2560	1:1	0.331	0.168	-0.01	20.02	21.50	1.406	0.465	22.1
Left side	20	QPSK 50_25	21350/2560	1:1	0.156	0.075	0.12	20.02	21.50	1.406	0.219	22.1
Right side	20	QPSK 50_25	21350/2560	1:1	0.052	0.014	-0.09	20.02	21.50	1.406	0.073	22.1
Top side	20	QPSK 50_25	21350/2560	1:1	0.306	0.151	-0.18	20.02	21.50	1.406	0.430	22.1



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Ant 7 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data (1RB) state2												
Left cheek	20	QPSK 1_50	21100/2535	1:1	0.309	0.144	-0.13	18.56	19.20	1.159	0.359	22.5
Left tilted	20	QPSK 1_50	21100/2535	1:1	0.151	0.071	0.09	18.56	19.20	1.159	0.175	22.5
Right cheek	20	QPSK 1_50	21100/2535	1:1	0.073	0.041	0.04	18.56	19.20	1.159	0.085	22.5
Right tilted	20	QPSK 1_50	21100/2535	1:1	0.043	0.023	0.16	18.56	19.20	1.159	0.050	22.5
Left cheek	20	QPSK 1_0	21350/2560	1:1	0.301	0.133	0.15	17.92	19.20	1.343	0.404	22.5
		QPSK 1_99	21152/2540.2									
Head Test Data (50%RB) state2												
Left cheek	20	QPSK 50_25	21350/2560	1:1	0.334	0.148	0.02	18.62	19.20	1.143	0.382	22.5
Left tilted	20	QPSK 50_25	21350/2560	1:1	0.167	0.077	-0.16	18.62	19.20	1.143	0.191	22.5
Right cheek	20	QPSK 50_25	21350/2560	1:1	0.091	0.052	-0.07	18.62	19.20	1.143	0.104	22.5
Right tilted	20	QPSK 50_25	21350/2560	1:1	0.058	0.030	-0.15	18.62	19.20	1.143	0.066	22.5
Body worn Test data (Separate 15mm 1RB) state1												
Front side	20	QPSK 1_50	21100/2535	1:1	0.031	0.020	0.14	19.54	20.20	1.164	0.036	22.1
Back side	20	QPSK 1_50	21100/2535	1:1	0.069	0.035	-0.05	19.54	20.20	1.164	0.080	22.1
Back side	20	QPSK 1_0	21350/2560	1:1	0.071	0.041	0.09	19.01	20.20	1.315	0.093	22.5
		QPSK 1_99	21152/2540.2									
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	20	QPSK 50_50	21350/2560	1:1	0.030	0.020	0.00	18.74	19.20	1.112	0.033	22.1
Back side	20	QPSK 50_50	21350/2560	1:1	0.069	0.035	0.01	18.74	19.20	1.112	0.077	22.1
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	20	QPSK 1_50	21100/2535	1:1	0.077	0.037	0.04	19.54	20.20	1.164	0.090	22.1
Back side	20	QPSK 1_50	21100/2535	1:1	0.152	0.073	-0.07	19.54	20.20	1.164	0.177	22.1
Right side	20	QPSK 1_50	21100/2535	1:1	0.091	0.043	0.06	19.54	20.20	1.164	0.106	22.1
Top side	20	QPSK 1_50	21100/2535	1:1	0.058	0.028	-0.07	19.54	20.20	1.164	0.068	22.1
Back side	20	QPSK 1_0	21350/2560	1:1	0.162	0.079	-0.13	19.01	20.20	1.315	0.213	22.5
		QPSK 1_99	21152/2540.2									
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	20	QPSK 50_50	21350/2560	1:1	0.084	0.041	-0.11	18.74	19.20	1.112	0.093	22.1
Back side	20	QPSK 50_50	21350/2560	1:1	0.147	0.071	-0.07	18.74	19.20	1.112	0.163	22.1
Right side	20	QPSK 50_50	21350/2560	1:1	0.100	0.049	-0.19	18.74	19.20	1.112	0.111	22.1
Top side	20	QPSK 50_50	21350/2560	1:1	0.059	0.030	-0.01	18.74	19.20	1.112	0.066	22.1



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8.2.9 SAR Result of LTE Band 12

LTE Band 12 SAR Test Record												
Ant 0 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(℃)
Head Test Data (1RB) state2												
Left cheek	10	QPSK 1_0	23095/707.5	1:1	0.045	0.032	0.12	23.35	24.50	1.303	0.059	22.3
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.023	0.012	0.15	23.35	24.50	1.303	0.030	22.3
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.049	0.036	-0.17	23.35	24.50	1.303	0.064	22.3
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.018	0.007	0.07	23.35	24.50	1.303	0.023	22.3
Head Test Data (50%RB) state2												
Left cheek	10	QPSK 25_0	23095/707.5	1:1	0.034	0.021	0.11	22.40	23.50	1.288	0.044	22.3
Left tilted	10	QPSK 25_0	23095/707.5	1:1	0.016	0.009	0.11	22.40	23.50	1.288	0.021	22.3
Right cheek	10	QPSK 25_0	23095/707.5	1:1	0.045	0.033	-0.08	22.40	23.50	1.288	0.058	22.3
Right tilted	10	QPSK 25_0	23095/707.5	1:1	0.011	0.005	-0.04	22.40	23.50	1.288	0.014	22.3
Body worn Test data (Separate 15mm 1RB) state1												
Front side	10	QPSK 1_0	23095/707.5	1:1	0.109	0.078	-0.12	23.35	24.50	1.303	0.142	22.1
Back side	10	QPSK 1_0	23095/707.5	1:1	0.127	0.097	0.06	23.35	24.50	1.303	0.166	22.3
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	10	QPSK 25_0	23095/707.5	1:1	0.089	0.064	-0.19	22.40	23.50	1.288	0.115	22.1
Back side	10	QPSK 25_0	23095/707.5	1:1	0.106	0.077	-0.19	22.40	23.50	1.288	0.137	22.1
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	10	QPSK 1_0	23095/707.5	1:1	0.108	0.072	0.08	23.35	24.50	1.303	0.141	22.1
Back side	10	QPSK 1_0	23095/707.5	1:1	0.127	0.084	0.01	23.35	24.50	1.303	0.166	22.1
Right side	10	QPSK 1_0	23095/707.5	1:1	0.191	0.131	-0.16	23.35	24.50	1.303	0.249	22.1
Bottom side	10	QPSK 1_0	23095/707.5	1:1	0.070	0.041	0.02	23.35	24.50	1.303	0.091	22.1
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	10	QPSK 25_0	23095/707.5	1:1	0.091	0.060	-0.19	22.40	23.50	1.288	0.117	22.1
Back side	10	QPSK 25_0	23095/707.5	1:1	0.107	0.069	-0.11	22.40	23.50	1.288	0.138	22.1
Right side	10	QPSK 25_0	23095/707.5	1:1	0.162	0.105	-0.16	22.40	23.50	1.288	0.209	22.1
Bottom side	10	QPSK 25_0	23095/707.5	1:1	0.061	0.035	0.05	22.40	23.50	1.288	0.079	22.1
Ant 1 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(℃)
Head Test Data (1RB) state2												
Left cheek	10	QPSK 1_0	23095/707.5	1:1	0.134	0.076	0.07	23.22	23.90	1.169	0.157	22.3
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.038	0.018	0.08	23.22	23.90	1.169	0.044	22.3
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.161	0.087	0.19	23.22	23.90	1.169	0.188	22.3
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.031	0.022	0.07	23.22	23.90	1.169	0.037	22.3
Head Test Data (50%RB) state2												
Left cheek	10	QPSK 25_0	23095/707.5	1:1	0.116	0.067	0.05	22.25	22.90	1.161	0.135	22.3
Left tilted	10	QPSK 25_0	23095/707.5	1:1	0.031	0.016	0.19	22.25	22.90	1.161	0.037	22.3
Right cheek	10	QPSK 25_0	23095/707.5	1:1	0.136	0.075	-0.09	22.25	22.90	1.161	0.157	22.3



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Right tilted	10	QPSK 25_0	23095/707.5	1:1	0.042	0.023	-0.17	22.25	22.90	1.161	0.049	22.3
Body worn Test data (Separate 15mm 1RB) state1												
Front side	10	QPSK 1_0	23095/707.5	1:1	0.052	0.032	-0.17	23.22	23.90	1.169	0.061	22.1
Back side	10	QPSK 1_0	23095/707.5	1:1	0.069	0.042	0.19	23.22	23.90	1.169	0.081	22.1
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	10	QPSK 25_0	23095/707.5	1:1	0.041	0.022	-0.18	22.25	22.90	1.161	0.048	22.1
Back side	10	QPSK 25_0	23095/707.5	1:1	0.054	0.032	-0.01	22.25	22.90	1.161	0.063	22.1
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	10	QPSK 1_0	23095/707.5	1:1	0.077	0.044	-0.06	23.22	23.90	1.169	0.090	22.1
Back side	10	QPSK 1_0	23095/707.5	1:1	0.100	0.057	-0.17	23.22	23.90	1.169	0.117	22.1
Left side	10	QPSK 1_0	23095/707.5	1:1	0.219	0.133	0.04	23.22	23.90	1.169	0.256	22.3
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	10	QPSK 25_0	23095/707.5	1:1	0.058	0.033	-0.05	22.25	22.90	1.161	0.067	22.1
Back side	10	QPSK 25_0	23095/707.5	1:1	0.080	0.044	-0.07	22.25	22.90	1.161	0.093	22.1
Left side	10	QPSK 25_0	23095/707.5	1:1	0.166	0.092	-0.16	22.25	22.90	1.161	0.193	22.1



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8.2.10 SAR Result of LTE Band 13

LTE Band 13 SAR Test Record												
Ant 0 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data (1RB) state2												
Left cheek	10	QPSK 1_0	23230/782	1:1	0.047	0.032	-0.19	23.44	24.50	1.276	0.060	22.3
Left tilted	10	QPSK 1_0	23230/782	1:1	0.022	0.010	-0.15	23.44	24.50	1.276	0.028	22.3
Right cheek	10	QPSK 1_0	23230/782	1:1	0.058	0.043	0.15	23.44	24.50	1.276	0.074	22.3
Right tilted	10	QPSK 1_0	23230/782	1:1	0.011	0.003	0.18	23.44	24.50	1.276	0.014	22.3
Head Test Data (50%RB) state2												
Left cheek	10	QPSK 25_0	23230/782	1:1	0.031	0.023	-0.08	22.50	23.50	1.259	0.039	22.3
Left tilted	10	QPSK 25_0	23230/782	1:1	0.019	0.006	0.12	22.50	23.50	1.259	0.024	22.3
Right cheek	10	QPSK 25_0	23230/782	1:1	0.046	0.033	0.14	22.50	23.50	1.259	0.058	22.3
Right tilted	10	QPSK 25_0	23230/782	1:1	0.009	0.003	-0.15	22.50	23.50	1.259	0.011	22.3
Body worn Test data (Separate 15mm 1RB) state1												
Front side	10	QPSK 1_0	23230/782	1:1	0.107	0.076	-0.06	23.44	24.50	1.276	0.137	22.1
Back side	10	QPSK 1_0	23230/782	1:1	0.156	0.119	-0.06	23.44	24.50	1.276	0.199	22.3
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	10	QPSK 25_0	23230/782	1:1	0.081	0.058	0.12	22.50	23.50	1.259	0.102	22.1
Back side	10	QPSK 25_0	23230/782	1:1	0.095	0.068	-0.19	22.50	23.50	1.259	0.120	22.1
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	10	QPSK 1_0	23230/782	1:1	0.101	0.072	0.06	23.44	24.50	1.276	0.129	22.1
Back side	10	QPSK 1_0	23230/782	1:1	0.131	0.082	0.02	23.44	24.50	1.276	0.167	22.1
Right side	10	QPSK 1_0	23230/782	1:1	0.174	0.116	-0.10	23.44	24.50	1.276	0.222	22.1
Bottom side	10	QPSK 1_0	23230/782	1:1	0.082	0.048	-0.19	23.44	24.50	1.276	0.105	22.1
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	10	QPSK 25_0	23230/782	1:1	0.081	0.052	0.16	22.50	23.50	1.259	0.102	22.1
Back side	10	QPSK 25_0	23230/782	1:1	0.100	0.063	0.01	22.50	23.50	1.259	0.126	22.1
Right side	10	QPSK 25_0	23230/782	1:1	0.131	0.088	0.03	22.50	23.50	1.259	0.165	22.1
Bottom side	10	QPSK 25_0	23230/782	1:1	0.066	0.038	0.06	22.50	23.50	1.259	0.083	22.1
Ant 1 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data (1RB) state2												
Left cheek	10	QPSK 1_0	23230/782	1:1	0.175	0.102	0.12	23.23	23.90	1.167	0.204	22.3
Left tilted	10	QPSK 1_0	23230/782	1:1	0.047	0.032	-0.18	23.23	23.90	1.167	0.055	22.3
Right cheek	10	QPSK 1_0	23230/782	1:1	0.227	0.122	0.09	23.23	23.90	1.167	0.265	22.3
Right tilted	10	QPSK 1_0	23230/782	1:1	0.057	0.034	-0.08	23.23	23.90	1.167	0.067	22.3
Head Test Data (50%RB) state2												
Left cheek	10	QPSK 25_0	23230/782	1:1	0.132	0.077	-0.01	22.26	22.90	1.159	0.153	22.3
Left tilted	10	QPSK 25_0	23230/782	1:1	0.032	0.014	0.06	22.26	22.90	1.159	0.037	22.3



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Right cheek	10	QPSK 25_0	23230/782	1:1	0.164	0.091	0.16	22.26	22.90	1.159	0.190	22.3
Right tilted	10	QPSK 25_0	23230/782	1:1	0.043	0.026	-0.17	22.26	22.90	1.159	0.050	22.3
Body worn Test data (Separate 15mm 1RB) state1												
Front side	10	QPSK 1_0	23230/782	1:1	0.059	0.036	-0.02	23.23	23.90	1.167	0.069	22.1
Back side	10	QPSK 1_0	23230/782	1:1	0.071	0.044	0.06	23.23	23.90	1.167	0.083	22.1
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	10	QPSK 25_0	23230/782	1:1	0.045	0.027	0.03	22.26	22.90	1.159	0.052	22.1
Back side	10	QPSK 25_0	23230/782	1:1	0.054	0.033	-0.13	22.26	22.90	1.159	0.063	22.1
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	10	QPSK 1_0	23230/782	1:1	0.098	0.056	0.11	23.23	23.90	1.167	0.114	22.1
Back side	10	QPSK 1_0	23230/782	1:1	0.120	0.068	0.05	23.23	23.90	1.167	0.140	22.1
Left side	10	QPSK 1_0	23230/782	1:1	0.269	0.158	0.01	23.23	23.90	1.167	0.314	22.3
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	10	QPSK 25_0	23230/782	1:1	0.073	0.042	-0.01	22.26	22.90	1.159	0.085	22.1
Back side	10	QPSK 25_0	23230/782	1:1	0.094	0.052	-0.02	22.26	22.90	1.159	0.109	22.1
Left side	10	QPSK 25_0	23230/782	1:1	0.179	0.096	0.04	22.26	22.90	1.159	0.207	22.1



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8.2.11 SAR Result of LTE Band 26

LTE Band 26 SAR Test Record												
Ant 0 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(℃)
Head Test Data (1RB) state2												
Left cheek	15	QPSK 1_38	26865/831.5	1:1	0.047	0.032	0.18	24.06	25.00	1.242	0.058	22.3
Left tilted	15	QPSK 1_38	26865/831.5	1:1	0.021	0.011	-0.08	24.06	25.00	1.242	0.026	22.3
Right cheek	15	QPSK 1_38	26865/831.5	1:1	0.056	0.041	0.03	24.06	25.00	1.242	0.070	22.3
Right tilted	15	QPSK 1_38	26865/831.5	1:1	0.013	0.005	-0.11	24.06	25.00	1.242	0.016	22.3
Head Test Data (50%RB) state2												
Left cheek	15	QPSK 36_0	26865/831.5	1:1	0.040	0.027	-0.07	23.18	24.00	1.208	0.048	22.3
Left tilted	15	QPSK 36_0	26865/831.5	1:1	0.016	0.005	-0.05	23.18	24.00	1.208	0.019	22.3
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.046	0.034	-0.04	23.18	24.00	1.208	0.056	22.3
Right tilted	15	QPSK 36_0	26865/831.5	1:1	0.019	0.008	0.19	23.18	24.00	1.208	0.023	22.3
Body worn Test data (Separate 15mm 1RB) state1												
Front side	15	QPSK 1_38	26865/831.5	1:1	0.156	0.110	-0.02	24.06	25.00	1.242	0.194	22.1
Back side	15	QPSK 1_38	26865/831.5	1:1	0.166	0.125	-0.05	24.06	25.00	1.242	0.206	22.3
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	15	QPSK 36_0	26865/831.5	1:1	0.123	0.086	0.08	23.18	24.00	1.208	0.148	22.1
Back side	15	QPSK 36_0	26865/831.5	1:1	0.131	0.092	0.19	23.18	24.00	1.208	0.158	22.1
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	15	QPSK 1_38	26865/831.5	1:1	0.160	0.101	-0.08	24.06	25.00	1.242	0.199	22.1
Back side	15	QPSK 1_38	26865/831.5	1:1	0.216	0.133	0.14	24.06	25.00	1.242	0.268	22.1
Right side	15	QPSK 1_38	26865/831.5	1:1	0.185	0.123	0.12	24.06	25.00	1.242	0.230	22.1
Bottom side	15	QPSK 1_38	26865/831.5	1:1	0.136	0.078	-0.12	24.06	25.00	1.242	0.169	22.1
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	15	QPSK 36_0	26865/831.5	1:1	0.119	0.077	0.15	23.18	24.00	1.208	0.144	22.1
Back side	15	QPSK 36_0	26865/831.5	1:1	0.162	0.102	0.08	23.18	24.00	1.208	0.196	22.1
Right side	15	QPSK 36_0	26865/831.5	1:1	0.150	0.099	-0.10	23.18	24.00	1.208	0.181	22.1
Bottom side	15	QPSK 36_0	26865/831.5	1:1	0.108	0.063	-0.19	23.18	24.00	1.208	0.130	22.1
Ant 1 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(℃)
Head Test Data (1RB) state2												
Left cheek	15	QPSK 1_0	26865/831.5	1:1	0.361	0.208	0.13	23.76	24.60	1.213	0.438	22.3
Left tilted	15	QPSK 1_0	26865/831.5	1:1	0.090	0.060	0.12	23.76	24.60	1.213	0.109	22.3
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.419	0.223	-0.02	23.76	24.60	1.213	0.508	22.3
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.109	0.066	0.12	23.76	24.60	1.213	0.132	22.3
Head Test Data (50%RB) state2												
Left cheek	15	QPSK 36_0	26865/831.5	1:1	0.310	0.178	-0.07	22.87	23.60	1.183	0.367	22.3
Left tilted	15	QPSK 36_0	26865/831.5	1:1	0.078	0.053	0.05	22.87	23.60	1.183	0.093	22.3



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Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.360	0.198	-0.11	22.87	23.60	1.183	0.425	22.3
Right tilted	15	QPSK 36_0	26865/831.5	1:1	0.094	0.057	-0.12	22.87	23.60	1.183	0.111	22.3
Body worn Test data (Separate 15mm 1RB) state1												
Front side	15	QPSK 1_0	26865/831.5	1:1	0.097	0.058	0.10	23.76	24.60	1.213	0.118	22.1
Back side	15	QPSK 1_0	26865/831.5	1:1	0.117	0.069	0.11	23.76	24.60	1.213	0.142	22.1
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	15	QPSK 36_0	26865/831.5	1:1	0.083	0.049	0.13	22.87	23.60	1.183	0.098	22.1
Back side	15	QPSK 36_0	26865/831.5	1:1	0.104	0.061	0.10	22.87	23.60	1.183	0.123	22.1
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	15	QPSK 1_0	26865/831.5	1:1	0.189	0.108	-0.03	23.76	24.60	1.213	0.230	22.1
Back side	15	QPSK 1_0	26865/831.5	1:1	0.234	0.131	0.14	23.76	24.60	1.213	0.284	22.1
Left side	15	QPSK 1_0	26865/831.5	1:1	0.413	0.237	0.04	23.76	24.60	1.213	0.501	22.3
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	15	QPSK 36_0	26865/831.5	1:1	0.167	0.093	-0.15	22.87	23.60	1.183	0.197	22.1
Back side	15	QPSK 36_0	26865/831.5	1:1	0.177	0.101	-0.02	22.87	23.60	1.183	0.209	22.1
Left side	15	QPSK 36_0	26865/831.5	1:1	0.363	0.187	-0.03	22.87	23.60	1.183	0.429	22.1



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8.2.12 SAR Result of LTE Band 41

LTE Band 41 SAR Test Record												
Ant 4 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(℃)
Head Test Data (1RB) state2												
Left cheek	20	QPSK 1_50	41490/2680	1:1.58	0.087	0.045	0.14	24.57	25.00	1.104	0.096	22.5
Left tilted	20	QPSK 1_50	41490/2680	1:1.58	0.049	0.028	-0.03	24.57	25.00	1.104	0.054	22.5
Right cheek	20	QPSK 1_50	41490/2680	1:1.58	0.056	0.029	-0.08	24.57	25.00	1.104	0.062	22.5
Right tilted	20	QPSK 1_50	41490/2680	1:1.58	0.031	0.018	-0.04	24.57	25.00	1.104	0.034	22.5
Left cheek	20	QPSK 1_0	41055/2636.5	1:1.58	0.092	0.055	0.04	23.78	24.00	1.052	0.097	22.5
		QPSK 1_99	40857/2616.7									
Head Test Data (50%RB) state2												
Left cheek	20	QPSK 50_0	41490/2680	1:1.58	0.072	0.037	-0.11	23.63	24.00	1.089	0.078	22.5
Left tilted	20	QPSK 50_0	41490/2680	1:1.58	0.034	0.021	-0.05	23.63	24.00	1.089	0.037	22.5
Right cheek	20	QPSK 50_0	41490/2680	1:1.58	0.048	0.025	-0.10	23.63	24.00	1.089	0.052	22.5
Right tilted	20	QPSK 50_0	41490/2680	1:1.58	0.024	0.016	0.09	23.63	24.00	1.089	0.026	22.5
Body worn Test data (Separate 15mm 1RB) state1												
Front side	20	QPSK 1_50	41490/2680	1:1.58	0.160	0.084	-0.15	24.57	25.00	1.104	0.177	22.5
Back side	20	QPSK 1_50	41490/2680	1:1.58	0.214	0.107	-0.03	24.57	25.00	1.104	0.236	22.5
Back side	20	QPSK 1_0	41055/2636.5	1:1.58	0.222	0.108	0.04	23.78	24.00	1.052	0.234	22.5
		QPSK 1_99	40857/2616.7									
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	20	QPSK 50_0	41490/2680	1:1.58	0.133	0.068	-0.04	23.63	24.00	1.089	0.145	22.5
Back side	20	QPSK 50_0	41490/2680	1:1.58	0.178	0.091	-0.01	23.63	24.00	1.089	0.194	22.5
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	20	QPSK 1_50	41490/2680	1:1.58	0.216	0.107	-0.10	24.57	25.00	1.104	0.238	22.5
Back side	20	QPSK 1_50	41490/2680	1:1.58	0.320	0.155	0.16	24.57	25.00	1.104	0.353	22.5
Left side	20	QPSK 1_50	41490/2680	1:1.58	0.056	0.029	-0.10	24.57	25.00	1.104	0.062	22.5
Bottom side	20	QPSK 1_50	41490/2680	1:1.58	0.521	0.250	-0.08	24.57	25.00	1.104	0.575	22.5
Bottom side	20	QPSK 1_0	41055/2636.5	1:1.58	0.511	0.238	0.02	23.78	24.00	1.052	0.538	22.5
		QPSK 1_99	40857/2616.7									
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	20	QPSK 50_0	41490/2680	1:1.58	0.192	0.094	0.00	23.63	24.00	1.089	0.209	22.5
Back side	20	QPSK 50_0	41490/2680	1:1.58	0.267	0.130	0.07	23.63	24.00	1.089	0.291	22.5
Left side	20	QPSK 50_0	41490/2680	1:1.58	0.049	0.025	-0.02	23.63	24.00	1.089	0.053	22.5
Bottom side	20	QPSK 50_0	41490/2680	1:1.58	0.420	0.200	-0.05	23.63	24.00	1.089	0.458	22.5



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Ant 5 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data (1RB) state2												
Left cheek	20	QPSK 1_50	41055/2636.5	1:1.58	0.274	0.149	-0.16	17.76	18.80	1.271	0.349	22.1
Left tilted	20	QPSK 1_50	41055/2636.5	1:1.58	0.257	0.135	-0.07	17.76	18.80	1.271	0.327	22.1
Right cheek	20	QPSK 1_50	41055/2636.5	1:1.58	0.609	0.299	0.19	17.76	18.80	1.271	0.774	22.1
Right tilted	20	QPSK 1_50	41055/2636.5	1:1.58	0.471	0.238	0.14	17.76	18.80	1.271	0.598	22.1
Right cheek	20	QPSK 1_99	39750/2506	1:1.58	0.538	0.270	0.16	17.47	18.80	1.358	0.731	22.1
Right cheek	20	QPSK 1_99	40185/2549.5	1:1.58	0.717	0.342	-0.15	17.55	18.80	1.334	0.956	22.1
Right cheek	20	QPSK 1_99	40620/2593	1:1.58	0.677	0.332	-0.18	17.31	18.80	1.409	0.954	22.1
Right cheek	20	QPSK 1_50	41490/2680	1:1.58	0.417	0.200	-0.09	17.74	18.80	1.276	0.532	22.1
Right cheek	20	QPSK 1_0	41490/2680	1:1.58	0.721	0.281	0.04	16.85	17.80	1.245	0.897	22.5
		QPSK 1_99	41292/2660.2									
Head Test Data (50%RB) state2												
Left cheek	20	QPSK 50_25	41055/2636.5	1:1.58	0.271	0.149	-0.10	17.92	18.80	1.225	0.332	22.1
Left tilted	20	QPSK 50_25	41055/2636.5	1:1.58	0.264	0.137	0.05	17.92	18.80	1.225	0.323	22.1
Right cheek	20	QPSK 50_25	41055/2636.5	1:1.58	0.617	0.305	-0.14	17.92	18.80	1.225	0.755	22.1
Right tilted	20	QPSK 50_25	41055/2636.5	1:1.58	0.488	0.241	-0.03	17.92	18.80	1.225	0.598	22.1
Right cheek	20	QPSK 50_50	39750/2506	1:1.58	0.510	0.260	0.18	17.56	18.80	1.330	0.678	22.1
Right cheek	20	QPSK 50_50	40185/2549.5	1:1.58	0.671	0.326	0.07	17.67	18.80	1.297	0.870	22.1
Right cheek	20	QPSK 50_50	40620/2593	1:1.58	0.661	0.316	-0.03	17.31	18.80	1.409	0.932	22.1
Right cheek	20	QPSK 50_50	41490/2680	1:1.58	0.395	0.168	-0.14	17.86	18.80	1.242	0.491	22.1
Head Test Data (100%RB) state2												
Right cheek	20	QPSK 100_0	41055/2636.5	1:1.58	0.623	0.314	0.12	17.85	18.80	1.245	0.776	22.1
Body worn Test data (Separate 15mm 1RB) state1												
Front side	20	QPSK 1_0	41055/2636.5	1:1.58	0.151	0.080	0.11	22.39	22.80	1.099	0.166	22.1
Back side	20	QPSK 1_0	41055/2636.5	1:1.58	0.146	0.078	0.10	22.39	22.80	1.099	0.160	22.1
Front side	20	QPSK 1_0	41490/2680	1:1.58	0.155	0.087	0.04	21.62	21.80	1.042	0.162	22.5
		QPSK 1_99	41292/2660.2									
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	20	QPSK 50_25	41055/2636.5	1:1.58	0.148	0.078	0.06	22.59	22.80	1.050	0.155	22.1
Back side	20	QPSK 50_25	41055/2636.5	1:1.58	0.139	0.074	-0.06	22.59	22.80	1.050	0.146	22.1
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	20	QPSK 1_0	41055/2636.5	1:1.58	0.301	0.158	-0.16	22.39	22.80	1.099	0.330	22.1
Back side	20	QPSK 1_0	41055/2636.5	1:1.58	0.320	0.165	0.03	22.39	22.80	1.099	0.352	22.1
Left side	20	QPSK 1_0	41055/2636.5	1:1.58	0.146	0.069	0.02	22.39	22.80	1.099	0.160	22.1
Right side	20	QPSK 1_0	41055/2636.5	1:1.58	0.040	0.022	0.03	22.39	22.80	1.099	0.044	22.1
Top side	20	QPSK 1_0	41055/2636.5	1:1.58	0.304	0.143	0.04	22.39	22.80	1.099	0.334	22.1
Back side	20	QPSK 1_0	41490/2680	1:1.58	0.333	0.161	0.04	21.62	21.80	1.042	0.347	22.5
		QPSK 1_99	41292/2660.2									
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	20	QPSK 50_25	41055/2636.5	1:1.58	0.297	0.153	0.09	22.59	22.80	1.050	0.312	22.1
Back side	20	QPSK 50_25	41055/2636.5	1:1.58	0.296	0.152	0.04	22.59	22.80	1.050	0.311	22.1



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Left side	20	QPSK 50_25	41055/2636.5	1:1.58	0.123	0.049	0.06	22.59	22.80	1.050	0.129	22.1
Right side	20	QPSK 50_25	41055/2636.5	1:1.58	0.048	0.026	0.09	22.59	22.80	1.050	0.050	22.1
Top side	20	QPSK 50_25	41055/2636.5	1:1.58	0.289	0.136	0.07	22.59	22.80	1.050	0.303	22.1
Ant 7 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data (1RB) state2												
Left cheek	20	QPSK 1_0	41055/2636.5	1:1.58	0.416	0.198	0.12	20.44	20.50	1.014	0.422	22.1
Left tilted	20	QPSK 1_0	41055/2636.5	1:1.58	0.210	0.105	0.06	20.44	20.50	1.014	0.213	22.1
Right cheek	20	QPSK 1_0	41055/2636.5	1:1.58	0.145	0.086	-0.07	20.44	20.50	1.014	0.147	22.1
Right tilted	20	QPSK 1_0	41055/2636.5	1:1.58	0.097	0.055	0.01	20.44	20.50	1.014	0.098	22.1
Left cheek	20	QPSK 1_0	41490/2680	1:1.58	0.421	0.195	0.11	19.38	19.50	1.028	0.433	22.5
		QPSK 1_99	41292/2660.2									
Head Test Data (50%RB) state2												
Left cheek	20	QPSK 50_50	41055/2636.5	1:1.58	0.386	0.182	-0.13	19.47	19.50	1.007	0.389	22.1
Left tilted	20	QPSK 50_50	41055/2636.5	1:1.58	0.196	0.099	-0.03	19.47	19.50	1.007	0.197	22.1
Right cheek	20	QPSK 50_50	41055/2636.5	1:1.58	0.137	0.081	0.09	19.47	19.50	1.007	0.138	22.1
Right tilted	20	QPSK 50_50	41055/2636.5	1:1.58	0.092	0.052	0.14	19.47	19.50	1.007	0.093	22.1
Body worn Test data (Separate 15mm 1RB) state1												
Front side	20	QPSK 1_0	41055/2636.5	1:1.58	0.045	0.022	-0.17	20.44	20.50	1.014	0.046	22.1
Back side	20	QPSK 1_0	41055/2636.5	1:1.58	0.078	0.040	-0.15	20.44	20.50	1.014	0.079	22.1
Back side	20	QPSK 1_0	41490/2680	1:1.58	0.071	0.042	0.07	19.38	19.50	1.028	0.073	22.5
		QPSK 1_99	41292/2660.2									
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	20	QPSK 50_50	41055/2636.5	1:1.58	0.041	0.021	-0.17	19.47	19.50	1.007	0.041	22.1
Back side	20	QPSK 50_50	41055/2636.5	1:1.58	0.075	0.037	-0.04	19.47	19.50	1.007	0.076	22.1
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	20	QPSK 1_0	41055/2636.5	1:1.58	0.094	0.046	0.02	20.44	20.50	1.014	0.095	22.1
Back side	20	QPSK 1_0	41055/2636.5	1:1.58	0.175	0.084	-0.05	20.44	20.50	1.014	0.177	22.1
Right side	20	QPSK 1_0	41055/2636.5	1:1.58	0.090	0.044	-0.07	20.44	20.50	1.014	0.091	22.1
Top side	20	QPSK 1_0	41055/2636.5	1:1.58	0.039	0.016	-0.13	20.44	20.50	1.014	0.040	22.1
Back side	20	QPSK 1_0	41490/2680	1:1.58	0.177	0.089	-0.12	19.38	19.50	1.028	0.182	22.5
		QPSK 1_99	41292/2660.2									
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	20	QPSK 50_50	41055/2636.5	1:1.58	0.087	0.042	0.13	19.47	19.50	1.007	0.088	22.1
Back side	20	QPSK 50_50	41055/2636.5	1:1.58	0.166	0.080	0.17	19.47	19.50	1.007	0.167	22.1
Right side	20	QPSK 50_50	41055/2636.5	1:1.58	0.071	0.035	-0.09	19.47	19.50	1.007	0.071	22.1
Top side	20	QPSK 50_50	41055/2636.5	1:1.58	0.031	0.012	0.03	19.47	19.50	1.007	0.031	22.1



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8.2.13 SAR Result of LTE Band 66

LTE Band 66 SAR Test Record												
Ant 4 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(℃)
Head Test Data (1RB) state2												
Left cheek	20	QPSK 1_50	132322/1745	1:1	0.052	0.026	-0.19	24.35	25.00	1.161	0.060	22.5
Left tilted	20	QPSK 1_50	132322/1745	1:1	0.024	0.014	-0.13	24.35	25.00	1.161	0.028	22.5
Right cheek	20	QPSK 1_50	132322/1745	1:1	0.031	0.018	-0.12	24.35	25.00	1.161	0.036	22.5
Right tilted	20	QPSK 1_50	132322/1745	1:1	0.019	0.008	0.17	24.35	25.00	1.161	0.022	22.5
Left cheek	20	QPSK 1_99	132322/1745	1:1	0.051	0.019	0.03	23.77	24.00	1.054	0.054	22.5
		QPSK 1_0	132520/1764.8	1:1								
Head Test Data (50%RB) state2												
Left cheek	20	QPSK 50_25	132322/1745	1:1	0.038	0.019	-0.06	23.53	24.00	1.114	0.042	22.5
Left tilted	20	QPSK 50_25	132322/1745	1:1	0.021	0.011	0.01	23.53	24.00	1.114	0.023	22.5
Right cheek	20	QPSK 50_25	132322/1745	1:1	0.023	0.009	0.07	23.53	24.00	1.114	0.026	22.5
Right tilted	20	QPSK 50_25	132322/1745	1:1	0.011	0.004	-0.02	23.53	24.00	1.114	0.012	22.5
Body worn Test data (Separate 15mm 1RB) state1												
Front side	20	QPSK 1_50	132322/1745	1:1	0.020	0.011	-0.04	21.16	22.50	1.361	0.027	22.5
Back side	20	QPSK 1_50	132322/1745	1:1	0.045	0.026	0.09	21.16	22.50	1.361	0.061	22.5
Back side	20	QPSK 1_99	132322/1745	1:1	0.055	0.033	0.02	21.34	21.50	1.038	0.057	22.5
		QPSK 1_0	132520/1764.8	1:1								
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	20	QPSK 50_25	132322/1745	1:1	0.021	0.013	-0.19	21.16	22.50	1.361	0.029	22.5
Back side	20	QPSK 50_25	132322/1745	1:1	0.045	0.025	-0.15	21.16	22.50	1.361	0.061	22.5
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	20	QPSK 1_50	132322/1745	1:1	0.054	0.030	0.00	21.16	22.50	1.361	0.074	22.5
Back side	20	QPSK 1_50	132322/1745	1:1	0.097	0.052	0.01	21.16	22.50	1.361	0.132	22.5
Left side	20	QPSK 1_50	132322/1745	1:1	0.031	0.015	0.06	21.16	22.50	1.361	0.042	22.5
Bottom side	20	QPSK 1_50	132322/1745	1:1	0.100	0.054	0.16	21.16	22.50	1.361	0.136	22.5
Bottom side	20	QPSK 1_99	132322/1745	1:1	0.099	0.051	0.04	21.34	21.50	1.038	0.103	22.5
		QPSK 1_0	132520/1764.8	1:1								
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	20	QPSK 50_25	132322/1745	1:1	0.052	0.030	0.04	21.16	22.50	1.361	0.071	22.5
Back side	20	QPSK 50_25	132322/1745	1:1	0.097	0.052	0.11	21.16	22.50	1.361	0.132	22.5
Left side	20	QPSK 50_25	132322/1745	1:1	0.029	0.013	0.16	21.16	22.50	1.361	0.039	22.5
Bottom side	20	QPSK 50_25	132322/1745	1:1	0.101	0.054	0.14	21.16	22.50	1.361	0.138	22.5
Ant 5 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(℃)
Head Test Data (1RB) state2												
Left cheek	20	QPSK 1_0	132072/1720	1:1	0.465	0.306	0.18	19.20	20.00	1.202	0.559	21.8
Left tilted	20	QPSK 1_0	132072/1720	1:1	0.450	0.275	0.00	19.20	20.00	1.202	0.541	21.8



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Right cheek	20	QPSK 1_0	132072/1720	1:1	0.761	0.432	-0.06	19.20	20.00	1.202	0.915	21.8
Right tilted	20	QPSK 1_0	132072/1720	1:1	0.472	0.258	-0.15	19.20	20.00	1.202	0.567	21.8
Right cheek	20	QPSK 1_99	132322/1745	1:1	0.721	0.411	-0.12	19.12	20.00	1.225	0.883	21.8
Right cheek	20	QPSK 1_0	132572/1770	1:1	0.580	0.301	0.03	19.03	20.00	1.250	0.725	21.8
Right cheek	20	QPSK 1_99	132322/1745	1:1	0.745	0.431	0.02	18.66	18.80	1.033	0.769	22.5
		QPSK 1_0	132520/1764.8	1:1								
Head Test Data (50%RB) state2												
Left cheek	20	QPSK 50_50	132322/1745	1:1	0.450	0.294	-0.18	19.13	20.00	1.222	0.550	21.8
Left tilted	20	QPSK 50_50	132322/1745	1:1	0.435	0.267	-0.08	19.13	20.00	1.222	0.532	21.8
Right cheek	20	QPSK 50_50	132322/1745	1:1	0.651	0.387	0.17	19.13	20.00	1.222	0.795	21.8
Right tilted	20	QPSK 50_50	132322/1745	1:1	0.470	0.260	0.02	19.13	20.00	1.222	0.574	21.8
Head Test Data (100%RB) state2												
Right cheek	20	QPSK 100_0	132322/1745	1:1	0.701	0.404	0.03	19.16	20.00	1.213	0.851	21.8
Body worn Test data (Separate 15mm 1RB) state1												
Front side	20	QPSK 1_50	132322/1745	1:1	0.172	0.114	-0.09	22.43	24.00	1.435	0.247	22.5
Back side	20	QPSK 1_50	132322/1745	1:1	0.194	0.127	0.05	22.43	24.00	1.435	0.278	22.2
Back side	20	QPSK 1_99	132322/1745	1:1	0.191	0.131	0.02	22.72	22.80	1.019	0.195	22.5
		QPSK 1_0	132520/1764.8	1:1								
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	20	QPSK 50_50	132322/1745	1:1	0.152	0.100	0.11	21.95	23.50	1.429	0.217	22.5
Back side	20	QPSK 50_50	132322/1745	1:1	0.168	0.108	-0.11	21.95	23.50	1.429	0.240	22.5
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	20	QPSK 1_50	132322/1745	1:1	0.269	0.173	0.17	22.43	24.00	1.435	0.387	22.5
Back side	20	QPSK 1_50	132322/1745	1:1	0.320	0.209	0.01	22.43	24.00	1.435	0.459	22.2
Left side	20	QPSK 1_50	132322/1745	1:1	0.123	0.074	0.06	22.43	24.00	1.435	0.176	22.5
Right side	20	QPSK 1_50	132322/1745	1:1	0.066	0.040	0.07	22.43	24.00	1.435	0.094	22.5
Top side	20	QPSK 1_50	132322/1745	1:1	0.291	0.167	0.00	22.43	24.00	1.435	0.418	22.5
Back side	20	QPSK 1_99	132322/1745	1:1	0.321	0.207	0.02	22.72	22.80	1.019	0.327	22.5
		QPSK 1_0	132520/1764.8	1:1								
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	20	QPSK 50_50	132322/1745	1:1	0.245	0.156	-0.11	21.95	23.50	1.429	0.350	22.5
Back side	20	QPSK 50_50	132322/1745	1:1	0.274	0.173	0.05	21.95	23.50	1.429	0.391	22.5
Left side	20	QPSK 50_50	132322/1745	1:1	0.106	0.062	0.17	21.95	23.50	1.429	0.151	22.5
Right side	20	QPSK 50_50	132322/1745	1:1	0.053	0.032	0.10	21.95	23.50	1.429	0.075	22.5
Top side	20	QPSK 50_50	132322/1745	1:1	0.259	0.148	-0.05	21.95	23.50	1.429	0.371	22.5
Ant 7 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(℃)
Head Test Data (1RB) state2												
Left cheek	20	QPSK 1_99	132572/1770	1:1	0.334	0.190	-0.10	20.82	21.70	1.225	0.409	22.5
Left tilted	20	QPSK 1_99	132572/1770	1:1	0.146	0.087	-0.07	20.82	21.70	1.225	0.179	22.5
Right cheek	20	QPSK 1_99	132572/1770	1:1	0.093	0.056	-0.03	20.82	21.70	1.225	0.114	22.5
Right tilted	20	QPSK 1_99	132572/1770	1:1	0.084	0.050	-0.07	20.82	21.70	1.225	0.103	22.5



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Left cheek	20	QPSK 1_99	132322/1745	1:1	0.321	0.188	0.08	20.24	20.50	1.062	0.341	22.5
		QPSK 1_0	132520/1764.8	1:1								
Head Test Data (50%RB) state2												
Left cheek	20	QPSK 50_25	132322/1745	1:1	0.255	0.140	0.05	19.89	20.70	1.205	0.307	22.5
Left tilted	20	QPSK 50_25	132322/1745	1:1	0.095	0.047	-0.03	19.89	20.70	1.205	0.114	22.5
Right cheek	20	QPSK 50_25	132322/1745	1:1	0.073	0.045	0.14	19.89	20.70	1.205	0.088	22.5
Right tilted	20	QPSK 50_25	132322/1745	1:1	0.067	0.040	-0.19	19.89	20.70	1.205	0.081	22.5
Body worn Test data (Separate 15mm 1RB) state1												
Front side	20	QPSK 1_99	132572/1770	1:1	0.032	0.016	0.06	20.82	21.70	1.225	0.039	22.5
Back side	20	QPSK 1_99	132572/1770	1:1	0.051	0.027	0.19	20.82	21.70	1.225	0.062	22.5
Back side	20	QPSK 1_99	132322/1745	1:1	0.059	0.031	0.07	20.24	20.50	1.062	0.063	22.5
		QPSK 1_0	132520/1764.8	1:1								
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	20	QPSK 50_25	132322/1745	1:1	0.019	0.011	-0.17	19.89	20.70	1.205	0.023	22.5
Back side	20	QPSK 50_25	132322/1745	1:1	0.029	0.015	-0.11	19.89	20.70	1.205	0.035	22.5
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	20	QPSK 1_99	132572/1770	1:1	0.067	0.040	0.16	20.82	21.70	1.225	0.082	22.5
Back side	20	QPSK 1_99	132572/1770	1:1	0.098	0.051	-0.14	20.82	21.70	1.225	0.120	22.5
Right side	20	QPSK 1_99	132572/1770	1:1	0.061	0.032	0.00	20.82	21.70	1.225	0.075	22.5
Top side	20	QPSK 1_99	132572/1770	1:1	0.031	0.016	0.12	20.82	21.70	1.225	0.038	22.5
Back side	20	QPSK 1_99	132322/1745	1:1	0.101	0.055	0.07	20.24	20.50	1.062	0.107	22.5
		QPSK 1_0	132520/1764.8	1:1								
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	20	QPSK 50_25	132322/1745	1:1	0.051	0.031	-0.04	19.89	20.70	1.205	0.061	22.5
Back side	20	QPSK 50_25	132322/1745	1:1	0.057	0.032	-0.18	19.89	20.70	1.205	0.069	22.5
Right side	20	QPSK 50_25	132322/1745	1:1	0.041	0.025	0.12	19.89	20.70	1.205	0.049	22.5
Top side	20	QPSK 50_25	132322/1745	1:1	0.021	0.011	0.02	19.89	20.70	1.205	0.025	22.5



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8.2.14 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	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.(°C)
Head Test Data (1RB) state2												
Left cheek	20	QPSK 1_50	133322/683	1:1	0.021	0.015	0.14	23.32	24.50	1.312	0.028	22.5
Left tilted	20	QPSK 1_50	133322/683	1:1	0.013	0.008	0.11	23.32	24.50	1.312	0.017	22.5
Right cheek	20	QPSK 1_50	133322/683	1:1	0.014	0.009	0.00	23.32	24.50	1.312	0.018	22.5
Right tilted	20	QPSK 1_50	133322/683	1:1	0.008	0.004	-0.19	23.32	24.50	1.312	0.010	22.5
Head Test Data (50%RB) state2												
Left cheek	20	QPSK 50_50	133322/683	1:1	0.018	0.011	0.17	22.46	23.50	1.271	0.023	22.5
Left tilted	20	QPSK 50_50	133322/683	1:1	0.012	0.006	0.18	22.46	23.50	1.271	0.015	22.5
Right cheek	20	QPSK 50_50	133322/683	1:1	0.005	0.003	0.15	22.46	23.50	1.271	0.006	22.5
Right tilted	20	QPSK 50_50	133322/683	1:1	0.003	0.001	-0.13	22.46	23.50	1.271	0.004	22.5
Body worn Test data (Separate 15mm 1RB) state1												
Front side	20	QPSK 1_50	133322/683	1:1	0.019	0.009	0.04	23.32	24.50	1.312	0.025	22.5
Back side	20	QPSK 1_50	133322/683	1:1	0.035	0.018	0.08	23.32	24.50	1.312	0.046	22.5
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	20	QPSK 50_50	133322/683	1:1	0.012	0.006	0.01	22.46	23.50	1.271	0.015	22.5
Back side	20	QPSK 50_50	133322/683	1:1	0.025	0.014	0.05	22.46	23.50	1.271	0.032	22.5
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	20	QPSK 1_50	133322/683	1:1	0.053	0.035	-0.16	23.32	24.50	1.312	0.070	22.5
Back side	20	QPSK 1_50	133322/683	1:1	0.064	0.046	-0.02	23.32	24.50	1.312	0.084	22.5
Right side	20	QPSK 1_50	133322/683	1:1	0.120	0.077	0.03	23.32	24.50	1.312	0.157	22.5
Bottom side	20	QPSK 1_50	133322/683	1:1	0.021	0.011	-0.11	23.32	24.50	1.312	0.028	22.5
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	20	QPSK 50_50	133322/683	1:1	0.021	0.011	0.00	22.46	23.50	1.271	0.027	22.5
Back side	20	QPSK 50_50	133322/683	1:1	0.047	0.034	-0.11	22.46	23.50	1.271	0.060	22.5
Right side	20	QPSK 50_50	133322/683	1:1	0.088	0.059	0.13	22.46	23.50	1.271	0.112	22.5
Bottom side	20	QPSK 50_50	133322/683	1:1	0.015	0.007	-0.04	22.46	23.50	1.271	0.019	22.5
Ant 1 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data (1RB) state2												
Left cheek	20	QPSK 1_99	133322/683	1:1	0.151	0.085	-0.05	23.19	23.90	1.178	0.178	22.5
Left tilted	20	QPSK 1_99	133322/683	1:1	0.046	0.031	0.10	23.19	23.90	1.178	0.054	22.5
Right cheek	20	QPSK 1_99	133322/683	1:1	0.200	0.111	0.05	23.19	23.90	1.178	0.236	22.2
Right tilted	20	QPSK 1_99	133322/683	1:1	0.053	0.033	-0.05	23.19	23.90	1.178	0.062	22.5
Head Test Data (50%RB) state2												
Left cheek	20	QPSK 50_25	133322/683	1:1	0.116	0.063	-0.02	22.36	22.90	1.132	0.131	22.5
Left tilted	20	QPSK 50_25	133322/683	1:1	0.039	0.024	-0.11	22.36	22.90	1.132	0.044	22.5



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Right cheek	20	QPSK 50_25	133322/683	1:1	0.140	0.078	-0.01	22.36	22.90	1.132	0.159	22.5
Right tilted	20	QPSK 50_25	133322/683	1:1	0.041	0.024	-0.18	22.36	22.90	1.132	0.046	22.5
Body worn Test data (Separate 15mm 1RB) state1												
Front side	20	QPSK 1_99	133322/683	1:1	0.054	0.032	0.09	23.19	23.90	1.178	0.064	22.5
Back side	20	QPSK 1_99	133322/683	1:1	0.080	0.054	0.00	23.19	23.90	1.178	0.094	22.2
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	20	QPSK 50_25	133322/683	1:1	0.041	0.025	0.13	22.36	22.90	1.132	0.046	22.5
Back side	20	QPSK 50_25	133322/683	1:1	0.058	0.034	-0.04	22.36	22.90	1.132	0.066	22.5
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	20	QPSK 1_99	133322/683	1:1	0.089	0.050	-0.04	23.19	23.90	1.178	0.105	22.5
Back side	20	QPSK 1_99	133322/683	1:1	0.118	0.067	-0.09	23.19	23.90	1.178	0.139	22.5
Left side	20	QPSK 1_99	133322/683	1:1	0.242	0.147	0.00	23.19	23.90	1.178	0.285	22.2
Bottom side	20	QPSK 1_99	133322/683	1:1	0.032	0.018	-0.15	23.19	23.90	1.178	0.038	22.5
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	20	QPSK 50_25	133322/683	1:1	0.064	0.035	-0.04	22.36	22.90	1.132	0.072	22.5
Back side	20	QPSK 50_25	133322/683	1:1	0.084	0.048	0.19	22.36	22.90	1.132	0.095	22.5
Left side	20	QPSK 50_25	133322/683	1:1	0.178	0.101	0.19	22.36	22.90	1.132	0.202	22.5
Bottom side	20	QPSK 50_25	133322/683	1:1	0.020	0.009	-0.10	22.36	22.90	1.132	0.023	22.5



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8.2.15 SAR Result of NR Band n2

SA N2 SAR Test Record												
Ant4 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data (1RB) state2												
Left cheek	40	QPSK 1_214	376000/1880	100%	0.078	0.047	-0.16	22.71	24.20	1.409	0.110	22.1
Left tilted	40	QPSK 1_214	376000/1880	100%	0.042	0.027	0.02	22.71	24.20	1.409	0.059	22.1
Right cheek	40	QPSK 1_214	376000/1880	100%	0.063	0.041	0.00	22.71	24.20	1.409	0.089	22.1
Right tilted	40	QPSK 1_214	376000/1880	100%	0.031	0.013	0.03	22.71	24.20	1.409	0.044	22.1
Head Test Data (50%RB) state2												
Left cheek	40	QPSK 108_54	376000/1880	100%	0.086	0.053	0.08	22.81	24.20	1.377	0.118	22.1
Left tilted	40	QPSK 108_54	376000/1880	100%	0.031	0.011	0.00	22.81	24.20	1.377	0.043	22.1
Right cheek	40	QPSK 108_54	376000/1880	100%	0.059	0.038	0.11	22.81	24.20	1.377	0.081	22.1
Right tilted	40	QPSK 108_54	376000/1880	100%	0.023	0.009	0.16	22.81	24.20	1.377	0.032	22.1
Body worn Test data (Separate 15mm 1RB) state1												
Front side	40	QPSK 1_214	376000/1880	100%	0.089	0.055	0.19	21.25	22.70	1.396	0.124	21.9
Back side	40	QPSK 1_214	376000/1880	100%	0.176	0.100	0.09	21.25	22.70	1.396	0.246	21.9
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	40	QPSK 108_54	376000/1880	100%	0.089	0.550	0.12	21.28	22.70	1.387	0.123	21.9
Back side	40	QPSK 108_54	376000/1880	100%	0.168	0.095	0.12	21.28	22.70	1.387	0.233	21.9
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	40	QPSK 1_214	376000/1880	100%	0.167	0.099	-0.13	21.25	22.70	1.396	0.233	21.9
Back side	40	QPSK 1_214	376000/1880	100%	0.346	0.182	-0.14	21.25	22.70	1.396	0.483	21.9
Left side	40	QPSK 1_214	376000/1880	100%	0.077	0.045	0.13	21.25	22.70	1.396	0.108	21.9
Bottom side	40	QPSK 1_214	376000/1880	100%	0.352	0.185	0.17	21.25	22.70	1.396	0.492	21.9
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	40	QPSK 108_54	376000/1880	100%	0.172	0.101	0.03	21.28	22.70	1.387	0.239	21.9
Back side	40	QPSK 108_54	376000/1880	100%	0.356	0.184	0.09	21.28	22.70	1.387	0.494	21.9
Left side	40	QPSK 108_54	376000/1880	100%	0.073	0.420	-0.13	21.28	22.70	1.387	0.101	21.9
Bottom side	40	QPSK 108_54	376000/1880	100%	0.324	0.178	0.05	21.28	22.70	1.387	0.449	21.9
Ant5 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data (1RB) state2												
Left cheek	40	QPSK 1_1	376000/1880	100%	0.455	0.298	-0.14	18.60	19.90	1.349	0.614	22.1
Left tilted	40	QPSK 1_1	376000/1880	100%	0.436	0.256	0.17	18.60	19.90	1.349	0.588	22.1
Right cheek	40	QPSK 1_1	376000/1880	100%	0.677	0.391	-0.07	18.60	19.90	1.349	0.913	22.1
Right tilted	40	QPSK 1_1	376000/1880	100%	0.466	0.252	0.12	18.60	19.90	1.349	0.628	22.1
Head Test Data (50%RB) state2												
Left cheek	40	QPSK 108_54	376000/1880	100%	0.468	0.308	0.16	18.44	19.90	1.400	0.656	22.1
Left tilted	40	QPSK 108_54	376000/1880	100%	0.452	0.267	-0.08	18.44	19.90	1.400	0.633	22.1
Right cheek	40	QPSK 108_54	376000/1880	100%	0.712	0.400	0.10	18.44	19.90	1.400	0.997	21.7



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Right tilted	40	QPSK 108_54	376000/1880	100%	0.513	0.276	0.19	18.44	19.90	1.400	0.717	22.1
Head Test Data (50%RB) state2												
Right cheek	40	QPSK 216_0	376000/1880	100%	0.568	0.330	0.14	17.31	18.90	1.442	0.820	22.1
Body worn Test data (Separate 15mm 1RB) state1												
Front side	40	QPSK 1_1	376000/1880	100%	0.202	0.126	0.03	22.55	23.90	1.365	0.276	21.9
Back side	40	QPSK 1_1	376000/1880	100%	0.203	0.128	-0.09	22.55	23.90	1.365	0.277	21.9
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	40	QPSK 108_54	376000/1880	100%	0.218	0.133	0.07	22.37	23.90	1.422	0.310	21.9
Back side	40	QPSK 108_54	376000/1880	100%	0.214	0.135	-0.04	22.37	23.90	1.422	0.304	21.9
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	40	QPSK 1_1	376000/1880	100%	0.407	0.246	0.04	22.55	23.90	1.365	0.556	21.9
Back side	40	QPSK 1_1	376000/1880	100%	0.419	0.256	-0.13	22.55	23.90	1.365	0.571	21.9
Left side	40	QPSK 1_1	376000/1880	100%	0.135	0.115	0.00	22.55	23.90	1.365	0.184	21.9
Right side	40	QPSK 1_1	376000/1880	100%	0.082	0.050	-0.12	22.55	23.90	1.365	0.112	21.9
Top side	40	QPSK 1_1	376000/1880	100%	0.509	0.282	0.02	22.55	23.90	1.365	0.695	21.9
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	40	QPSK 108_54	376000/1880	100%	0.425	0.238	0.11	22.37	23.90	1.422	0.604	21.9
Back side	40	QPSK 108_54	376000/1880	100%	0.467	0.284	0.02	22.37	23.90	1.422	0.665	21.9
Left side	40	QPSK 108_54	376000/1880	100%	0.201	0.117	-0.07	22.37	23.90	1.422	0.285	21.9
Right side	40	QPSK 108_54	376000/1880	100%	0.097	0.058	0.12	22.37	23.90	1.422	0.139	21.9
Top side	40	QPSK 108_54	376000/1880	100%	0.529	0.308	-0.03	22.37	23.90	1.422	0.752	21.9
Ant7 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data (1RB) state2												
Left cheek	40	QPSK 1_214	376000/1880	100%	0.222	0.121	0.10	18.78	19.70	1.236	0.274	22.1
Left tilted	40	QPSK 1_214	376000/1880	100%	0.074	0.042	-0.13	18.78	19.70	1.236	0.091	22.1
Right cheek	40	QPSK 1_214	376000/1880	100%	0.052	0.031	0.09	18.78	19.70	1.236	0.064	22.1
Right tilted	40	QPSK 1_214	376000/1880	100%	0.053	0.032	0.11	18.78	19.70	1.236	0.066	22.1
Head Test Data (50%RB) state2												
Left cheek	40	QPSK 108_54	376000/1880	100%	0.217	0.119	-0.02	18.72	19.70	1.253	0.272	22.1
Left tilted	40	QPSK 108_54	376000/1880	100%	0.073	0.042	0.09	18.72	19.70	1.253	0.091	22.1
Right cheek	40	QPSK 108_54	376000/1880	100%	0.050	0.031	0.02	18.72	19.70	1.253	0.063	22.1
Right tilted	40	QPSK 108_54	376000/1880	100%	0.052	0.031	-0.08	18.72	19.70	1.253	0.065	22.1
Body worn Test data (Separate 15mm 1RB) state1												
Front side	40	QPSK 1_214	376000/1880	100%	0.015	0.080	0.02	19.82	20.70	1.225	0.018	21.9
Back side	40	QPSK 1_214	376000/1880	100%	0.026	0.015	0.11	19.82	20.70	1.225	0.032	21.9
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	40	QPSK 108_54	376000/1880	100%	0.013	0.074	0.08	19.78	20.70	1.236	0.016	21.9
Back side	40	QPSK 108_54	376000/1880	100%	0.023	0.011	0.16	19.78	20.70	1.236	0.028	21.9
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	40	QPSK 1_214	376000/1880	100%	0.042	0.026	-0.04	19.82	20.70	1.225	0.051	21.9
Back side	40	QPSK 1_214	376000/1880	100%	0.074	0.040	0.13	19.82	20.70	1.225	0.091	21.9
Right side	40	QPSK 1_214	376000/1880	100%	0.043	0.024	-0.08	19.82	20.70	1.225	0.053	21.9



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Top side	40	QPSK 1_214	376000/1880	100%	0.012	0.005	-0.15	19.82	20.70	1.225	0.015	21.9
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	40	QPSK 108_54	376000/1880	100%	0.041	0.022	-0.14	19.78	20.70	1.236	0.051	21.9
Back side	40	QPSK 108_54	376000/1880	100%	0.072	0.039	-0.05	19.78	20.70	1.236	0.089	21.9
Right side	40	QPSK 108_54	376000/1880	100%	0.039	0.021	0.13	19.78	20.70	1.236	0.048	21.9
Top side	40	QPSK 108_54	376000/1880	100%	0.011	0.003	-0.06	19.78	20.70	1.236	0.014	21.9



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8.2.16 SAR Result of NR Band n5

SA N5 SAR Test Record												
Ant0 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data (1RB) state2												
Left cheek	20	QPSK 1_53	167300/836.5	100%	0.109	0.075	0.07	23.62	25.00	1.374	0.150	22.1
Left tilted	20	QPSK 1_53	167300/836.5	100%	0.062	0.047	-0.02	23.62	25.00	1.374	0.085	22.1
Right cheek	20	QPSK 1_53	167300/836.5	100%	0.143	0.104	-0.04	23.62	25.00	1.374	0.196	22.1
Right tilted	20	QPSK 1_53	167300/836.5	100%	0.084	0.063	0.03	23.62	25.00	1.374	0.115	22.1
Head Test Data (50%RB) state2												
Left cheek	20	QPSK 50_28	167300/836.5	100%	0.109	0.075	-0.15	23.66	25.00	1.361	0.148	22.1
Left tilted	20	QPSK 50_28	167300/836.5	100%	0.062	0.046	0.02	23.66	25.00	1.361	0.084	22.1
Right cheek	20	QPSK 50_28	167300/836.5	100%	0.145	0.105	0.13	23.66	25.00	1.361	0.197	22.1
Right tilted	20	QPSK 50_28	167300/836.5	100%	0.088	0.066	-0.10	23.66	25.00	1.361	0.120	22.1
Body worn Test data (Separate 15mm 1RB) state1												
Front side	20	QPSK 1_53	167300/836.5	100%	0.113	0.081	-0.16	23.62	25.00	1.374	0.156	21.9
Back side	20	QPSK 1_53	167300/836.5	100%	0.140	0.106	-0.10	23.62	25.00	1.374	0.192	21.9
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	20	QPSK 50_28	167300/836.5	100%	0.117	0.084	-0.18	23.66	25.00	1.361	0.160	21.9
Back side	20	QPSK 50_28	167300/836.5	100%	0.135	0.096	0.14	23.66	25.00	1.361	0.183	21.9
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	20	QPSK 1_53	167300/836.5	100%	0.170	0.109	0.04	23.62	25.00	1.374	0.234	21.9
Back side	20	QPSK 1_53	167300/836.5	100%	0.232	0.144	0.01	23.62	25.00	1.374	0.319	21.9
Right side	20	QPSK 1_53	167300/836.5	100%	0.208	0.116	0.12	23.62	25.00	1.374	0.286	21.9
Bottom side	20	QPSK 1_53	167300/836.5	100%	0.146	0.083	0.04	23.62	25.00	1.374	0.201	21.9
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	20	QPSK 50_28	167300/836.5	100%	0.165	0.107	0.17	23.66	25.00	1.361	0.225	21.9
Back side	20	QPSK 50_28	167300/836.5	100%	0.222	0.139	0.17	23.66	25.00	1.361	0.302	21.9
Right side	20	QPSK 50_28	167300/836.5	100%	0.202	0.113	-0.14	23.66	25.00	1.361	0.275	21.9
Bottom side	20	QPSK 50_28	167300/836.5	100%	0.151	0.086	-0.14	23.66	25.00	1.361	0.206	21.9
Ant1 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data (1RB) state2												
Left cheek	20	QPSK 1_53	167300/836.5	100%	0.326	0.185	0.05	23.19	24.60	1.384	0.451	22.1
Left tilted	20	QPSK 1_53	167300/836.5	100%	0.085	0.057	0.02	23.19	24.60	1.384	0.117	22.1
Right cheek	20	QPSK 1_53	167300/836.5	100%	0.426	0.229	0.02	23.19	24.60	1.384	0.589	21.7
Right tilted	20	QPSK 1_53	167300/836.5	100%	0.111	0.068	0.11	23.19	24.60	1.384	0.154	22.1
Head Test Data (50%RB) state2												
Left cheek	20	QPSK 50_28	167300/836.5	100%	0.323	0.182	0.10	23.23	24.60	1.371	0.443	22.1
Left tilted	20	QPSK 50_28	167300/836.5	100%	0.084	0.057	-0.09	23.23	24.60	1.371	0.115	22.1
Right cheek	20	QPSK 50_28	167300/836.5	100%	0.424	0.238	-0.10	23.23	24.60	1.371	0.581	22.1



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Right tilted	20	QPSK 50_28	167300/836.5	100%	0.110	0.068	0.14	23.23	24.60	1.371	0.151	22.1
Body worn Test data (Separate 15mm 1RB) state1												
Front side	20	QPSK 1_53	167300/836.5	100%	0.114	0.068	-0.03	23.19	24.60	1.384	0.158	21.9
Back side	20	QPSK 1_53	167300/836.5	100%	0.131	0.075	0.17	23.19	24.60	1.384	0.181	21.9
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	20	QPSK 50_28	167300/836.5	100%	0.110	0.064	0.15	23.23	24.60	1.371	0.151	21.9
Back side	20	QPSK 50_28	167300/836.5	100%	0.134	0.080	-0.17	23.23	24.60	1.371	0.184	21.9
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	20	QPSK 1_53	167300/836.5	100%	0.228	0.121	0.14	23.19	24.60	1.384	0.315	21.9
Back side	20	QPSK 1_53	167300/836.5	100%	0.276	0.154	0.07	23.19	24.60	1.384	0.382	21.9
Left side	20	QPSK 1_53	167300/836.5	100%	0.516	0.287	0.03	23.19	24.60	1.384	0.714	21.9
Bottom side	20	QPSK 1_53	167300/836.5	100%	0.179	0.140	0.03	23.19	24.60	1.384	0.248	21.9
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	20	QPSK 50_28	167300/836.5	100%	0.228	0.131	-0.09	23.23	24.60	1.371	0.312	21.9
Back side	20	QPSK 50_28	167300/836.5	100%	0.243	0.136	-0.05	23.23	24.60	1.371	0.333	21.9
Left side	20	QPSK 50_28	167300/836.5	100%	0.507	0.269	0.14	23.23	24.60	1.371	0.695	21.9
Bottom side	20	QPSK 50_28	167300/836.5	100%	0.174	0.124	-0.15	23.23	24.60	1.371	0.238	21.9



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8.2.17 SAR Result of NR Band n7

SA N7 SAR Test Record												
Ant4 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(℃)
Head Test Data (1RB) state2												
Left cheek	50	QPSK 1_135	507000/2535	100%	0.115	0.062	0.11	23.94	24.70	1.191	0.137	22.1
Left tilted	50	QPSK 1_135	507000/2535	100%	0.036	0.012	0.09	23.94	24.70	1.191	0.043	22.1
Right cheek	50	QPSK 1_135	507000/2535	100%	0.066	0.038	0.13	23.94	24.70	1.191	0.079	22.1
Right tilted	50	QPSK 1_135	507000/2535	100%	0.047	0.025	0.11	23.94	24.70	1.191	0.056	22.1
Head Test Data (50%RB) state2												
Left cheek	50	QPSK 135_67	507000/2535	100%	0.110	0.059	-0.10	23.92	24.70	1.197	0.132	22.1
Left tilted	50	QPSK 135_67	507000/2535	100%	0.035	0.011	-0.14	23.92	24.70	1.197	0.042	22.1
Right cheek	50	QPSK 135_67	507000/2535	100%	0.065	0.037	0.06	23.92	24.70	1.197	0.078	22.1
Right tilted	50	QPSK 135_67	507000/2535	100%	0.047	0.024	-0.12	23.92	24.70	1.197	0.056	22.1
Body worn Test data (Separate 15mm 1RB) state1												
Front side	50	QPSK 1_135	507000/2535	100%	0.133	0.072	-0.03	23.94	24.70	1.191	0.158	21.9
Back side	50	QPSK 1_135	507000/2535	100%	0.175	0.099	-0.14	23.94	24.70	1.191	0.208	21.9
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	50	QPSK 135_67	507000/2535	100%	0.128	0.066	0.18	23.92	24.70	1.197	0.153	21.9
Back side	50	QPSK 135_67	507000/2535	100%	0.174	0.092	-0.16	23.92	24.70	1.197	0.208	21.9
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	50	QPSK 1_135	507000/2535	100%	0.208	0.106	0.04	23.94	24.70	1.191	0.248	21.9
Back side	50	QPSK 1_135	507000/2535	100%	0.366	0.168	-0.10	23.94	24.70	1.191	0.436	21.9
Left side	50	QPSK 1_135	507000/2535	100%	0.060	0.032	-0.02	23.94	24.70	1.191	0.072	21.9
Bottom side	50	QPSK 1_135	507000/2535	100%	0.444	0.219	0.11	23.94	24.70	1.191	0.529	21.9
Bottom side	50	QPSK 1_135	507000/2535	100%	0.447	0.211	0.02	23.94	24.70	1.191	0.532	21.9
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	50	QPSK 135_67	507000/2535	100%	0.196	0.097	0.11	23.92	24.70	1.197	0.235	21.9
Back side	50	QPSK 135_67	507000/2535	100%	0.362	0.162	0.11	23.92	24.70	1.197	0.433	21.9
Left side	50	QPSK 135_67	507000/2535	100%	0.053	0.028	0.19	23.92	24.70	1.197	0.063	21.9
Bottom side	50	QPSK 135_67	507000/2535	100%	0.434	0.212	-0.06	23.92	24.70	1.197	0.520	21.9
Ant5 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(℃)
Head Test Data (1RB) state2												
Left cheek	50	QPSK 1_135	507000/2535	100%	0.493	0.299	0.17	17.52	18.50	1.253	0.618	22.1
Left tilted	50	QPSK 1_135	507000/2535	100%	0.516	0.279	-0.04	17.52	18.50	1.253	0.647	22.1
Right cheek	50	QPSK 1_135	507000/2535	100%	0.870	0.425	-0.12	17.52	18.50	1.253	1.091	22.1
Right tilted	50	QPSK 1_135	507000/2535	100%	0.721	0.361	0.03	17.52	18.50	1.253	0.904	22.1
Head Test Data (50%RB) state2												
Left cheek	50	QPSK 135_67	507000/2535	100%	0.490	0.295	0.12	17.46	18.50	1.271	0.622	22.1
Left tilted	50	QPSK 135_67	507000/2535	100%	0.512	0.278	-0.17	17.46	18.50	1.271	0.651	22.1
Right cheek	50	QPSK 135_67	507000/2535	100%	0.878	0.419	-0.03	17.46	18.50	1.271	1.116	21.7



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Right tilted	50	QPSK 135_67	507000/2535	100%	0.722	0.373	0.03	17.46	18.50	1.271	0.917	22.1
Right cheek with Repeat	50	QPSK 135_67	507000/2535	100%	0.865	0.411	-0.05	17.46	18.50	1.271	1.099	21.7
Head Test Data (100%RB) state2												
Right cheek	50	QPSK 270_0	507000/2535	100%	0.812	0.401	-0.04	16.31	17.50	1.315	1.068	22.1
Right tilted	50	QPSK 270_0	507000/2535	100%	0.726	0.364	0.04	16.31	17.50	1.315	0.955	22.1
Body worn Test data (Separate 15mm 1RB) state1												
Front side	50	QPSK 1_135	507000/2535	100%	0.181	0.100	0.05	21.58	22.50	1.236	0.223	21.9
Back side	50	QPSK 1_135	507000/2535	100%	0.147	0.083	0.14	21.58	22.50	1.236	0.182	21.9
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	50	QPSK 135_67	507000/2535	100%	0.180	0.096	0.09	21.54	22.50	1.247	0.225	21.9
Back side	50	QPSK 135_67	507000/2535	100%	0.143	0.081	0.03	21.54	22.50	1.247	0.179	21.9
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	50	QPSK 1_135	507000/2535	100%	0.383	0.200	0.02	21.58	22.50	1.236	0.473	21.9
Back side	50	QPSK 1_135	507000/2535	100%	0.422	0.211	-0.01	21.58	22.50	1.236	0.522	21.9
Left side	50	QPSK 1_135	507000/2535	100%	0.189	0.096	0.03	21.58	22.50	1.236	0.234	21.9
Right side	50	QPSK 1_135	507000/2535	100%	0.061	0.035	-0.10	21.58	22.50	1.236	0.076	21.9
Top side	50	QPSK 1_135	507000/2535	100%	0.382	0.196	0.06	21.58	22.50	1.236	0.472	21.9
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	50	QPSK 135_67	507000/2535	100%	0.377	0.197	-0.12	21.54	22.50	1.247	0.470	21.9
Back side	50	QPSK 135_67	507000/2535	100%	0.420	0.226	0.10	21.54	22.50	1.247	0.524	21.9
Left side	50	QPSK 135_67	507000/2535	100%	0.190	0.096	-0.01	21.54	22.50	1.247	0.237	21.9
Right side	50	QPSK 135_67	507000/2535	100%	0.058	0.034	-0.06	21.54	22.50	1.247	0.073	21.9
Top side	50	QPSK 135_67	507000/2535	100%	0.387	0.198	0.15	21.54	22.50	1.247	0.483	21.9
Ant7 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(℃)
Head Test Data (1RB) state2												
Left cheek	50	QPSK 1_135	507000/2535	100%	0.375	0.173	0.09	17.91	19.20	1.346	0.505	22.1
Left tilted	50	QPSK 1_135	507000/2535	100%	0.170	0.077	-0.11	17.91	19.20	1.346	0.229	22.1
Right cheek	50	QPSK 1_135	507000/2535	100%	0.089	0.048	-0.04	17.91	19.20	1.346	0.120	22.1
Right tilted	50	QPSK 1_135	507000/2535	100%	0.055	0.029	-0.10	17.91	19.20	1.346	0.074	22.1
Head Test Data (50%RB) state2												
Left cheek	50	QPSK 135_67	507000/2535	100%	0.367	0.168	-0.11	18.01	19.20	1.315	0.483	22.1
Left tilted	50	QPSK 135_67	507000/2535	100%	0.171	0.078	0.00	18.01	19.20	1.315	0.225	22.1
Right cheek	50	QPSK 135_67	507000/2535	100%	0.090	0.049	0.14	18.01	19.20	1.315	0.118	22.1
Right tilted	50	QPSK 135_67	507000/2535	100%	0.055	0.029	-0.19	18.01	19.20	1.315	0.072	22.1
Body worn Test data (Separate 15mm 1RB) state1												
Front side	50	QPSK 1_135	507000/2535	100%	0.042	0.022	-0.15	18.92	20.20	1.343	0.056	21.9
Back side	50	QPSK 1_135	507000/2535	100%	0.065	0.034	0.13	18.92	20.20	1.343	0.087	21.9
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	50	QPSK 135_67	507000/2535	100%	0.041	0.020	0.05	18.99	20.20	1.321	0.054	21.9
Back side	50	QPSK 135_67	507000/2535	100%	0.058	0.031	0.14	18.99	20.20	1.321	0.077	21.9
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	50	QPSK 1_135	507000/2535	100%	0.079	0.038	-0.05	18.92	20.20	1.343	0.106	21.9



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Back side	50	QPSK 1_135	507000/2535	100%	0.139	0.068	0.01	18.92	20.20	1.343	0.187	21.9
Right side	50	QPSK 1_135	507000/2535	100%	0.097	0.045	-0.07	18.92	20.20	1.343	0.130	21.9
Top side	50	QPSK 1_135	507000/2535	100%	0.070	0.033	-0.15	18.92	20.20	1.343	0.094	21.9
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	50	QPSK 135_67	507000/2535	100%	0.083	0.410	-0.09	18.99	20.20	1.321	0.110	21.9
Back side	50	QPSK 135_67	507000/2535	100%	0.137	0.067	-0.18	18.99	20.20	1.321	0.181	21.9
Right side	50	QPSK 135_67	507000/2535	100%	0.095	0.450	0.04	18.99	20.20	1.321	0.126	21.9
Top side	50	QPSK 135_67	507000/2535	100%	0.065	0.025	0.10	18.99	20.20	1.321	0.086	21.9

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right cheek	507000/2535	0.878	0.865	1.015	N/A	N/A

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

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

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

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

5) 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. The repeated measurement results must be clearly identified in the SAR report.



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8.2.18 SAR Result of NR Band n26

SA N26 SAR Test Record												
Ant0 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data (1RB) state2												
Left cheek	20	QPSK 1_53	166300/831.5	100%	0.104	0.071	-0.14	23.60	25.00	1.380	0.144	22.1
Left tilted	20	QPSK 1_53	166300/831.5	100%	0.062	0.047	0.14	23.60	25.00	1.380	0.086	22.1
Right cheek	20	QPSK 1_53	166300/831.5	100%	0.117	0.084	0.04	23.60	25.00	1.380	0.162	22.1
Right tilted	20	QPSK 1_53	166300/831.5	100%	0.078	0.057	0.10	23.60	25.00	1.380	0.108	22.1
Head Test Data (50%RB) state2												
Left cheek	20	QPSK 50_28	166300/831.5	100%	0.103	0.071	0.15	23.64	25.00	1.368	0.141	22.1
Left tilted	20	QPSK 50_28	166300/831.5	100%	0.061	0.047	0.09	23.64	25.00	1.368	0.083	22.1
Right cheek	20	QPSK 50_28	166300/831.5	100%	0.115	0.083	0.08	23.64	25.00	1.368	0.157	22.1
Right tilted	20	QPSK 50_28	166300/831.5	100%	0.078	0.058	-0.02	23.64	25.00	1.368	0.107	22.1
Body worn Test data (Separate 15mm 1RB) state1												
Front side	20	QPSK 1_53	166300/831.5	100%	0.106	0.075	0.16	23.60	25.00	1.380	0.146	21.9
Back side	20	QPSK 1_53	166300/831.5	100%	0.114	0.080	-0.08	23.60	25.00	1.380	0.157	21.9
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	20	QPSK 50_28	166300/831.5	100%	0.102	0.072	-0.02	23.64	25.00	1.368	0.140	21.9
Back side	20	QPSK 50_28	166300/831.5	100%	0.122	0.087	-0.15	23.64	25.00	1.368	0.167	21.9
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	20	QPSK 1_53	166300/831.5	100%	0.146	0.094	-0.15	23.60	25.00	1.380	0.202	21.9
Back side	20	QPSK 1_53	166300/831.5	100%	0.197	0.123	-0.06	23.60	25.00	1.380	0.272	21.9
Right side	20	QPSK 1_53	166300/831.5	100%	0.173	0.098	-0.04	23.60	25.00	1.380	0.239	21.9
Bottom side	20	QPSK 1_53	166300/831.5	100%	0.127	0.073	0.09	23.60	25.00	1.380	0.175	21.9
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	20	QPSK 50_28	166300/831.5	100%	0.148	0.095	0.11	23.64	25.00	1.368	0.202	21.9
Back side	20	QPSK 50_28	166300/831.5	100%	0.195	0.122	0.01	23.64	25.00	1.368	0.267	21.9
Right side	20	QPSK 50_28	166300/831.5	100%	0.165	0.095	-0.17	23.64	25.00	1.368	0.226	21.9
Bottom side	20	QPSK 50_28	166300/831.5	100%	0.135	0.077	0.10	23.64	25.00	1.368	0.185	21.9
Ant1 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data (1RB) state2												
Left cheek	20	QPSK 1_53	166300/831.5	100%	0.311	0.162	-0.17	23.19	24.60	1.384	0.430	22.1
Left tilted	20	QPSK 1_53	166300/831.5	100%	0.087	0.059	-0.13	23.19	24.60	1.384	0.120	22.1
Right cheek	20	QPSK 1_53	166300/831.5	100%	0.324	0.176	0.04	23.19	24.60	1.384	0.448	22.2
Right tilted	20	QPSK 1_53	166300/831.5	100%	0.103	0.063	0.04	23.19	24.60	1.384	0.143	22.1
Head Test Data (50%RB) state2												
Left cheek	20	QPSK 50_28	166300/831.5	100%	0.322	0.180	0.18	23.23	24.60	1.371	0.441	22.1
Left tilted	20	QPSK 50_28	166300/831.5	100%	0.085	0.058	0.15	23.23	24.60	1.371	0.117	22.1



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Right cheek	20	QPSK 50_28	166300/831.5	100%	0.311	0.161	0.10	23.23	24.60	1.371	0.426	22.1
Right tilted	20	QPSK 50_28	166300/831.5	100%	0.103	0.063	0.01	23.23	24.60	1.371	0.141	22.1
Body worn Test data (Separate 15mm 1RB) state1												
Front side	20	QPSK 1_53	166300/831.5	100%	0.102	0.061	0.19	23.19	24.60	1.384	0.141	21.9
Back side	20	QPSK 1_53	166300/831.5	100%	0.130	0.081	0.02	23.19	24.60	1.384	0.180	21.9
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	20	QPSK 50_28	166300/831.5	100%	0.100	0.057	-0.07	23.23	24.60	1.371	0.137	21.9
Back side	20	QPSK 50_28	166300/831.5	100%	0.117	0.069	0.18	23.23	24.60	1.371	0.160	21.9
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	20	QPSK 1_53	166300/831.5	100%	0.183	0.103	-0.09	23.19	24.60	1.384	0.253	21.9
Back side	20	QPSK 1_53	166300/831.5	100%	0.193	0.107	-0.05	23.19	24.60	1.384	0.267	21.9
Left side	20	QPSK 1_53	166300/831.5	100%	0.392	0.205	0.16	23.19	24.60	1.384	0.542	21.9
Bottom side	20	QPSK 1_53	166300/831.5	100%	0.144	0.098	0.15	23.19	24.60	1.384	0.199	21.9
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	20	QPSK 50_28	166300/831.5	100%	0.178	0.097	0.08	23.23	24.60	1.371	0.244	21.9
Back side	20	QPSK 50_28	166300/831.5	100%	0.215	0.122	0.09	23.23	24.60	1.371	0.295	21.9
Left side	20	QPSK 50_28	166300/831.5	100%	0.482	0.267	-0.02	23.23	24.60	1.371	0.661	21.9
Bottom side	20	QPSK 50_28	166300/831.5	100%	0.134	0.092	0.12	23.23	24.60	1.371	0.184	21.9



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8.2.19 SAR Result of NR Band n38

SA N38 SAR Test Record												
Ant4 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Body worn Test data (Separate 15mm 1RB) state1												
Front side	40	QPSK 1_53	519000/2595	100%	0.100	0.054	0.15	23.22	24.00	1.197	0.120	21.9
Back side	40	QPSK 1_53	519000/2595	100%	0.142	0.072	0.17	23.22	24.00	1.197	0.170	21.9
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	40	QPSK 50_28	519000/2595	100%	0.098	0.053	-0.05	23.07	24.00	1.239	0.122	21.9
Back side	40	QPSK 50_28	519000/2595	100%	0.145	0.069	0.05	23.07	24.00	1.239	0.180	21.9
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	40	QPSK 1_53	519000/2595	100%	0.150	0.075	0.05	23.22	24.00	1.197	0.179	21.9
Back side	40	QPSK 1_53	519000/2595	100%	0.279	0.124	0.00	23.22	24.00	1.197	0.334	21.9
Left side	40	QPSK 1_53	519000/2595	100%	0.061	0.030	0.12	23.22	24.00	1.197	0.073	21.9
Bottom side	40	QPSK 1_53	519000/2595	100%	0.352	0.168	0.01	23.22	24.00	1.197	0.421	21.9
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	40	QPSK 50_28	519000/2595	100%	0.174	0.087	-0.04	23.07	24.00	1.239	0.215	21.9
Back side	40	QPSK 50_28	519000/2595	100%	0.288	0.134	0.11	23.07	24.00	1.239	0.357	21.9
Left side	40	QPSK 50_28	519000/2595	100%	0.055	0.028	0.00	23.07	24.00	1.239	0.068	21.9
Bottom side	40	QPSK 50_28	519000/2595	100%	0.339	0.167	-0.09	23.07	24.00	1.239	0.420	21.9
Ant7 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data (1RB) state2												
Left cheek	40	QPSK 1_53	519000/2595	100%	0.390	0.179	0.00	18.47	19.50	1.268	0.494	22.1
Left tilted	40	QPSK 1_53	519000/2595	100%	0.198	0.091	-0.02	18.47	19.50	1.268	0.251	22.1
Right cheek	40	QPSK 1_53	519000/2595	100%	0.122	0.066	-0.17	18.47	19.50	1.268	0.154	22.1
Right tilted	40	QPSK 1_53	519000/2595	100%	0.076	0.040	0.01	18.47	19.50	1.268	0.097	22.1
Head Test Data (50%RB) state2												
Left cheek	40	QPSK 50_28	519000/2595	100%	0.396	0.168	0.00	18.33	19.50	1.309	0.518	22.1
Left tilted	40	QPSK 50_28	519000/2595	100%	0.197	0.090	-0.18	18.33	19.50	1.309	0.258	22.1
Right cheek	40	QPSK 50_28	519000/2595	100%	0.118	0.065	0.05	18.33	19.50	1.309	0.155	22.1
Right tilted	40	QPSK 50_28	519000/2595	100%	0.075	0.040	0.00	18.33	19.50	1.309	0.098	22.1



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8.2.20 SAR Result of NR Band n41

SA N41 SAR Test Record												
Ant4 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data (1RB) state2												
Left cheek	100	QPSK 1_137	518598/2592.99	100%	0.100	0.053	0.07	24.10	25.00	1.230	0.123	22.1
Left tilted	100	QPSK 1_137	518598/2592.99	100%	0.064	0.020	-0.11	24.10	25.00	1.230	0.079	22.1
Right cheek	100	QPSK 1_137	518598/2592.99	100%	0.056	0.033	-0.16	24.10	25.00	1.230	0.069	22.1
Right tilted	100	QPSK 1_137	518598/2592.99	100%	0.045	0.024	0.14	24.10	25.00	1.230	0.055	22.1
Head Test Data (50%RB) state2												
Left cheek	100	QPSK 135_69	518598/2592.99	100%	0.090	0.049	-0.06	24.09	25.00	1.233	0.111	22.1
Left tilted	100	QPSK 135_69	518598/2592.99	100%	0.041	0.010	0.17	24.09	25.00	1.233	0.051	22.1
Right cheek	100	QPSK 135_69	518598/2592.99	100%	0.054	0.031	0.13	24.09	25.00	1.233	0.067	22.1
Right tilted	100	QPSK 135_69	518598/2592.99	100%	0.048	0.025	-0.06	24.09	25.00	1.233	0.059	22.1
Body worn Test data (Separate 15mm 1RB) state1												
Front side	100	QPSK 1_137	518598/2592.99	100%	0.081	0.044	-0.08	22.16	23.00	1.213	0.098	21.9
Back side	100	QPSK 1_137	518598/2592.99	100%	0.126	0.064	-0.02	22.16	23.00	1.213	0.153	21.9
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	100	QPSK 135_69	518598/2592.99	100%	0.087	0.047	-0.05	22.13	23.00	1.222	0.106	21.9
Back side	100	QPSK 135_69	518598/2592.99	100%	0.132	0.065	-0.03	22.13	23.00	1.222	0.161	21.9
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	100	QPSK 1_137	518598/2592.99	100%	0.154	0.079	-0.04	22.16	23.00	1.213	0.187	21.9
Back side	100	QPSK 1_137	518598/2592.99	100%	0.268	0.123	-0.05	22.16	23.00	1.213	0.325	21.9
Left side	100	QPSK 1_137	518598/2592.99	100%	0.056	0.029	-0.13	22.16	23.00	1.213	0.068	21.9
Bottom side	100	QPSK 1_137	518598/2592.99	100%	0.305	0.148	0.17	22.16	23.00	1.213	0.370	21.9
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	100	QPSK 135_69	518598/2592.99	100%	0.160	0.080	-0.09	22.13	23.00	1.222	0.195	21.9
Back side	100	QPSK 135_69	518598/2592.99	100%	0.265	0.122	0.14	22.13	23.00	1.222	0.324	21.9
Left side	100	QPSK 135_69	518598/2592.99	100%	0.052	0.026	-0.16	22.13	23.00	1.222	0.064	21.9
Bottom side	100	QPSK 135_69	518598/2592.99	100%	0.301	0.141	-0.17	22.13	23.00	1.222	0.368	21.9
Ant5 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data (1RB) state2												
Left cheek	100	QPSK 1_271	518598/2592.99	100%	0.371	0.208	-0.06	16.76	17.30	1.132	0.420	22.1
Left tilted	100	QPSK 1_271	518598/2592.99	100%	0.373	0.194	0.09	16.76	17.30	1.132	0.423	22.1
Right cheek	100	QPSK 1_271	518598/2592.99	100%	0.728	0.363	0.03	16.76	17.30	1.132	0.824	22.1
Right tilted	100	QPSK 1_271	518598/2592.99	100%	0.645	0.317	-0.16	16.76	17.30	1.132	0.731	22.1
Head Test Data (50%RB) state2												
Left cheek	100	QPSK 135_69	518598/2592.99	100%	0.460	0.258	-0.12	16.64	17.30	1.164	0.536	22.1
Left tilted	100	QPSK 135_69	518598/2592.99	100%	0.454	0.236	0.04	16.64	17.30	1.164	0.528	22.1



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Right cheek	100	QPSK 135_69	518598/2592.99	100%	0.985	0.466	0.02	16.64	17.30	1.164	1.147	22.2
Right tilted	100	QPSK 135_69	518598/2592.99	100%	0.852	0.419	0.08	16.64	17.30	1.164	0.992	22.1
Right cheek with Repeat	100	QPSK 135_69	518598/2592.99	100%	0.954	0.445	-0.03	16.64	17.30	1.164	1.111	22.2
Head Test Data (100%RB) state2												
Right cheek	100	QPSK 270_0	518598/2592.99	100%	0.733	0.379	-0.18	15.42	16.30	1.225	0.898	22.1
Right tilted	100	QPSK 270_0	518598/2592.99	100%	0.601	0.319	-0.15	15.42	16.30	1.225	0.736	22.1
Body worn Test data (Separate 15mm 1RB) state1												
Front side	100	QPSK 1_271	518598/2592.99	100%	0.125	0.068	-0.05	19.80	20.30	1.122	0.141	21.9
Back side	100	QPSK 1_271	518598/2592.99	100%	0.097	0.052	-0.06	19.80	20.30	1.122	0.108	21.9
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	100	QPSK 135_69	518598/2592.99	100%	0.141	0.072	0.05	19.44	20.30	1.219	0.172	22.2
Back side	100	QPSK 135_69	518598/2592.99	100%	0.124	0.067	0.09	19.44	20.30	1.219	0.151	21.9
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	100	QPSK 1_271	518598/2592.99	100%	0.242	0.124	0.16	19.80	20.30	1.122	0.272	21.9
Back side	100	QPSK 1_271	518598/2592.99	100%	0.223	0.116	0.15	19.80	20.30	1.122	0.250	21.9
Left side	100	QPSK 1_271	518598/2592.99	100%	0.124	0.059	0.03	19.80	20.30	1.122	0.139	21.9
Right side	100	QPSK 1_271	518598/2592.99	100%	0.034	0.193	-0.09	19.80	20.30	1.122	0.038	21.9
Top side	100	QPSK 1_271	518598/2592.99	100%	0.251	0.120	-0.08	19.80	20.30	1.122	0.281	21.9
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	100	QPSK 135_69	518598/2592.99	100%	0.266	0.140	-0.07	19.44	20.30	1.219	0.324	21.9
Back side	100	QPSK 135_69	518598/2592.99	100%	0.263	0.137	-0.09	19.44	20.30	1.219	0.320	21.9
Left side	100	QPSK 135_69	518598/2592.99	100%	0.121	0.057	-0.16	19.44	20.30	1.219	0.147	21.9
Right side	100	QPSK 135_69	518598/2592.99	100%	0.036	0.020	-0.05	19.44	20.30	1.219	0.044	21.9
Top side	100	QPSK 135_69	518598/2592.99	100%	0.305	0.134	0.08	19.44	20.30	1.219	0.372	22.2
Ant7 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data (1RB) state2												
Left cheek	100	QPSK 1_271	518598/2592.99	100%	0.499	0.229	-0.04	18.28	19.00	1.180	0.589	22.1
Left tilted	100	QPSK 1_271	518598/2592.99	100%	0.269	0.124	-0.06	18.28	19.00	1.180	0.318	22.1
Right cheek	100	QPSK 1_271	518598/2592.99	100%	0.154	0.083	-0.06	18.28	19.00	1.180	0.182	22.1
Right tilted	100	QPSK 1_271	518598/2592.99	100%	0.107	0.056	0.08	18.28	19.00	1.180	0.126	22.1
Head Test Data (50%RB) state2												
Left cheek	100	QPSK 135_69	518598/2592.99	100%	0.416	0.192	0.10	17.91	19.00	1.285	0.535	22.1
Left tilted	100	QPSK 135_69	518598/2592.99	100%	0.223	0.100	0.02	17.91	19.00	1.285	0.287	22.1
Right cheek	100	QPSK 135_69	518598/2592.99	100%	0.124	0.069	-0.14	17.91	19.00	1.285	0.159	22.1
Right tilted	100	QPSK 135_69	518598/2592.99	100%	0.079	0.041	-0.15	17.91	19.00	1.285	0.102	22.1
Body worn Test data (Separate 15mm 1RB) state1												
Front side	100	QPSK 1_271	518598/2592.99	100%	0.076	0.390	-0.01	19.78	20.50	1.180	0.090	21.9
Back side	100	QPSK 1_271	518598/2592.99	100%	0.126	0.065	-0.04	19.78	20.50	1.180	0.149	21.9
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	100	QPSK 135_69	518598/2592.99	100%	0.059	0.031	-0.11	19.36	20.50	1.300	0.077	21.9
Back side	100	QPSK 135_69	518598/2592.99	100%	0.096	0.050	0.06	19.36	20.50	1.300	0.125	21.9
Hotspot Test data (Separate 10mm 1RB) state1												



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Front side	100	QPSK 1_271	518598/2592.99	100%	0.149	0.074	-0.02	19.78	20.50	1.180	0.176	21.9
Back side	100	QPSK 1_271	518598/2592.99	100%	0.274	0.134	0.00	19.78	20.50	1.180	0.323	21.9
Right side	100	QPSK 1_271	518598/2592.99	100%	0.155	0.075	0.13	19.78	20.50	1.180	0.183	21.9
Top side	100	QPSK 1_271	518598/2592.99	100%	0.056	0.031	0.17	19.78	20.50	1.180	0.066	21.9
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	100	QPSK 135_69	518598/2592.99	100%	0.115	0.057	-0.04	19.36	20.50	1.300	0.150	21.9
Back side	100	QPSK 135_69	518598/2592.99	100%	0.165	0.081	-0.10	19.36	20.50	1.300	0.215	21.9
Right side	100	QPSK 135_69	518598/2592.99	100%	0.145	0.070	0.13	19.36	20.50	1.300	0.189	21.9
Top side	100	QPSK 135_69	518598/2592.99	100%	0.044	0.250	0.09	19.36	20.50	1.300	0.057	21.9

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right cheek	518598/2592.99	0.985	0.954	1.032	N/A	N/A

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

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

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

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

5) 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. The repeated measurement results must be clearly identified in the SAR report.



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8.2.21 SAR Result of NR Band n66

SA N66 SAR Test Record												
Ant4 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data (1RB) state2												
Left cheek	45	QPSK 1_108	349000/1745	100%	0.051	0.023	0.04	24.13	25.00	1.222	0.062	22.1
Left tilted	45	QPSK 1_108	349000/1745	100%	0.026	0.012	-0.11	24.13	25.00	1.222	0.032	22.1
Right cheek	45	QPSK 1_108	349000/1745	100%	0.042	0.016	-0.13	24.13	25.00	1.222	0.051	22.1
Right tilted	45	QPSK 1_108	349000/1745	100%	0.023	0.011	0.08	24.13	25.00	1.222	0.028	22.1
Head Test Data (50%RB) state2												
Left cheek	45	QPSK 108_54	349000/1745	100%	0.043	0.018	0.13	24.21	25.00	1.199	0.052	22.1
Left tilted	45	QPSK 108_54	349000/1745	100%	0.022	0.010	0.18	24.21	25.00	1.199	0.026	22.1
Right cheek	45	QPSK 108_54	349000/1745	100%	0.038	0.011	-0.02	24.21	25.00	1.199	0.046	22.1
Right tilted	45	QPSK 108_54	349000/1745	100%	0.019	0.009	-0.10	24.21	25.00	1.199	0.023	22.1
Body worn Test data (Separate 15mm 1RB) state1												
Front side	45	QPSK 1_108	349000/1745	100%	0.025	0.013	0.17	21.63	22.50	1.222	0.031	21.9
Back side	45	QPSK 1_108	349000/1745	100%	0.052	0.030	0.08	21.63	22.50	1.222	0.064	21.9
Body worn Test data (Separate 15mm 50RB) state1												
Front side	45	QPSK 108_54	349000/1745	100%	0.019	0.010	0.19	21.70	22.50	1.202	0.023	21.9
Back side	45	QPSK 108_54	349000/1745	100%	0.053	0.030	0.02	21.70	22.50	1.202	0.064	21.9
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	45	QPSK 1_108	349000/1745	100%	0.058	0.034	0.11	21.63	22.50	1.222	0.071	21.9
Back side	45	QPSK 1_108	349000/1745	100%	0.110	0.060	0.14	21.63	22.50	1.222	0.134	21.9
Left side	45	QPSK 1_108	349000/1745	100%	0.036	0.022	0.04	21.63	22.50	1.222	0.044	21.9
Bottom side	45	QPSK 1_108	349000/1745	100%	0.127	0.066	0.18	21.63	22.50	1.222	0.155	21.9
Hotspot Test data (Separate 10mm 50RB) state1												
Front side	45	QPSK 108_54	349000/1745	100%	0.062	0.035	-0.07	21.70	22.50	1.202	0.075	21.9
Back side	45	QPSK 108_54	349000/1745	100%	0.115	0.063	0.12	21.70	22.50	1.202	0.138	21.9
Left side	45	QPSK 108_54	349000/1745	100%	0.028	0.019	0.12	21.70	22.50	1.202	0.034	21.9
Bottom side	45	QPSK 108_54	349000/1745	100%	0.119	0.064	-0.11	21.70	22.50	1.202	0.143	21.9
Ant5 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data (1RB) state2												
Left cheek	45	QPSK 1_108	349000/1745	100%	0.686	0.446	0.01	20.54	21.40	1.219	0.836	22.1
Left tilted	45	QPSK 1_108	349000/1745	100%	0.694	0.423	-0.13	20.54	21.40	1.219	0.846	22.1
Right cheek	45	QPSK 1_108	349000/1745	100%	0.887	0.520	-0.15	20.54	21.40	1.219	1.081	22.1
Right tilted	45	QPSK 1_108	349000/1745	100%	0.691	0.372	-0.05	20.54	21.40	1.219	0.842	22.1
Head Test Data (50%RB) state2												
Left cheek	45	QPSK 108_54	349000/1745	100%	0.695	0.450	-0.12	20.62	21.40	1.197	0.832	22.1
Left tilted	45	QPSK 108_54	349000/1745	100%	0.709	0.430	-0.14	20.62	21.40	1.197	0.848	22.1
Right cheek	45	QPSK 108_54	349000/1745	100%	0.912	0.524	-0.05	20.62	21.40	1.197	1.091	22.2
Right tilted	45	QPSK 108_54	349000/1745	100%	0.702	0.377	0.19	20.62	21.40	1.197	0.840	22.1



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Right cheek with Repeat	45	QPSK 108_54	349000/1745	100%	0.902	0.518	0.03	20.62	21.40	1.197	1.079	22.2
Head Test Data (100%RB) state2												
Left cheek	45	QPSK 216_0	349000/1745	100%	0.462	0.328	0.13	19.58	20.40	1.208	0.558	22.1
Left tilted	45	QPSK 216_0	349000/1745	100%	0.517	0.311	-0.19	19.58	20.40	1.208	0.624	22.1
Right cheek	45	QPSK 216_0	349000/1745	100%	0.681	0.409	0.03	19.58	20.40	1.208	0.823	22.1
Right tilted	45	QPSK 216_0	349000/1745	100%	0.512	0.296	0.05	19.58	20.40	1.208	0.618	22.1
Head Evaluate Data (1RB) state4												
Left cheek	45	QPSK 1_108	349000/1745	100%	0.686	0.446	0.01	20.54	19.90	0.863	0.592	22.1
Left tilted	45	QPSK 1_108	349000/1745	100%	0.694	0.423	-0.13	20.54	19.90	0.863	0.599	22.1
Right cheek	45	QPSK 1_108	349000/1745	100%	0.887	0.520	-0.15	20.54	19.90	0.863	0.765	22.1
Right tilted	45	QPSK 1_108	349000/1745	100%	0.691	0.372	-0.05	20.54	19.90	0.863	0.596	22.1
Head Evaluate Data (50%RB) state4												
Left cheek	45	QPSK 108_54	349000/1745	100%	0.695	0.450	-0.12	20.62	19.90	0.847	0.589	22.1
Left tilted	45	QPSK 108_54	349000/1745	100%	0.709	0.430	-0.14	20.62	19.90	0.847	0.601	22.1
Right cheek	45	QPSK 108_54	349000/1745	100%	0.912	0.524	-0.05	20.62	19.90	0.847	0.773	22.2
Right tilted	45	QPSK 108_54	349000/1745	100%	0.702	0.377	0.19	20.62	19.90	0.847	0.595	22.1
Right cheek with Repeat	45	QPSK 108_54	349000/1745	100%	0.902	0.518	0.03	20.62	19.90	0.847	0.764	22.2
Head Evaluate Data (100%RB) state4												
Left cheek	45	QPSK 216_0	349000/1745	100%	0.462	0.328	0.13	19.58	18.90	0.855	0.395	22.1
Left tilted	45	QPSK 216_0	349000/1745	100%	0.517	0.311	-0.19	19.58	20.40	1.208	0.624	22.1
Right cheek	45	QPSK 216_0	349000/1745	100%	0.681	0.409	0.03	19.58	20.40	1.208	0.823	22.1
Right tilted	45	QPSK 216_0	349000/1745	100%	0.512	0.296	0.05	19.58	20.40	1.208	0.618	22.1
Body worn Test data (Separate 15mm 1RB) state1												
Front side	45	QPSK 1_108	349000/1745	100%	0.153	0.102	0.07	22.62	23.40	1.197	0.183	21.9
Back side	45	QPSK 1_108	349000/1745	100%	0.175	0.114	-0.02	22.62	23.40	1.197	0.209	21.9
Body worn Test data (Separate 15mm 50RB) state1												
Front side	45	QPSK 108_54	349000/1745	100%	0.159	0.105	0.02	22.63	23.40	1.194	0.190	21.9
Back side	45	QPSK 108_54	349000/1745	100%	0.176	0.112	-0.05	22.63	23.40	1.194	0.210	22.2
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	45	QPSK 1_108	349000/1745	100%	0.275	0.175	0.15	22.62	23.40	1.197	0.330	21.9
Back side	45	QPSK 1_108	349000/1745	100%	0.259	0.167	0.04	22.62	23.40	1.197	0.310	21.9
Left side	45	QPSK 1_108	349000/1745	100%	0.135	0.080	-0.03	22.62	23.40	1.197	0.162	21.9
Right side	45	QPSK 1_108	349000/1745	100%	0.063	0.038	0.16	22.62	23.40	1.197	0.075	21.9
Top side	45	QPSK 1_108	349000/1745	100%	0.301	0.173	-0.19	22.62	23.40	1.197	0.360	21.9
Hotspot Test data (Separate 10mm 50RB) state1												
Front side	45	QPSK 108_54	349000/1745	100%	0.280	0.180	-0.04	22.63	23.40	1.194	0.334	21.9
Back side	45	QPSK 108_54	349000/1745	100%	0.313	0.197	0.00	22.63	23.40	1.194	0.374	22.2
Left side	45	QPSK 108_54	349000/1745	100%	0.139	0.083	0.15	22.63	23.40	1.194	0.166	21.9
Right side	45	QPSK 108_54	349000/1745	100%	0.062	0.367	0.11	22.63	23.40	1.194	0.074	21.9
Top side	45	QPSK 108_54	349000/1745	100%	0.306	0.175	0.00	22.63	23.40	1.194	0.366	21.9



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Ant7 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data (1RB) state2												
Left cheek	45	QPSK 1_108	349000/1745	100%	0.254	0.140	0.11	19.64	20.70	1.276	0.324	22.1
Left tilted	45	QPSK 1_108	349000/1745	100%	0.098	0.056	-0.16	19.64	20.70	1.276	0.125	22.1
Right cheek	45	QPSK 1_108	349000/1745	100%	0.066	0.041	0.03	19.64	20.70	1.276	0.084	22.1
Right tilted	45	QPSK 1_108	349000/1745	100%	0.066	0.040	0.12	19.64	20.70	1.276	0.084	22.1
Head Test Data (50%RB) state2												
Left cheek	45	QPSK 108_54	349000/1745	100%	0.254	0.139	-0.15	19.63	20.70	1.279	0.325	22.1
Left tilted	45	QPSK 108_54	349000/1745	100%	0.098	0.057	0.14	19.63	20.70	1.279	0.125	22.1
Right cheek	45	QPSK 108_54	349000/1745	100%	0.065	0.040	-0.07	19.63	20.70	1.279	0.083	22.1
Right tilted	45	QPSK 108_54	349000/1745	100%	0.065	0.040	0.15	19.63	20.70	1.279	0.083	22.1
Body worn Test data (Separate 15mm 1RB) state1												
Front side	45	QPSK 1_108	349000/1745	100%	0.044	0.019	0.18	20.65	21.70	1.274	0.056	21.9
Back side	45	QPSK 1_108	349000/1745	100%	0.051	0.210	-0.02	20.65	21.70	1.274	0.065	21.9
Body worn Test data (Separate 15mm 50RB) state1												
Front side	45	QPSK 108_54	349000/1745	100%	0.032	0.011	0.09	20.64	21.70	1.276	0.041	21.9
Back side	45	QPSK 108_54	349000/1745	100%	0.043	0.015	-0.17	20.64	21.70	1.276	0.055	21.9
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	45	QPSK 1_108	349000/1745	100%	0.062	0.038	-0.11	20.65	21.70	1.274	0.079	21.9
Back side	45	QPSK 1_108	349000/1745	100%	0.072	0.038	0.02	20.65	21.70	1.274	0.092	21.9
Right side	45	QPSK 1_108	349000/1745	100%	0.058	0.030	-0.15	20.65	21.70	1.274	0.074	21.9
Top side	45	QPSK 1_108	349000/1745	100%	0.022	0.010	-0.17	20.65	21.70	1.274	0.028	21.9
Hotspot Test data (Separate 10mm 50RB) state1												
Front side	45	QPSK 108_54	349000/1745	100%	0.054	0.025	-0.12	20.64	21.70	1.276	0.069	21.9
Back side	45	QPSK 108_54	349000/1745	100%	0.066	0.031	0.16	20.64	21.70	1.276	0.084	21.9
Right side	45	QPSK 108_54	349000/1745	100%	0.051	0.025	-0.19	20.64	21.70	1.276	0.065	21.9
Top side	45	QPSK 108_54	349000/1745	100%	0.019	0.008	0.17	20.64	21.70	1.276	0.024	21.9

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right cheek	349000/1745	0.912	0.902	1.011	N/A	N/A

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

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

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

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

5) 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. The repeated measurement results must be clearly identified in the SAR report.



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8.2.22 SAR Result of NR Band n71

SA N71 SAR Test Record												
Ant0 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data (1RB) state2												
Left cheek	35	QPSK 1_93	136100/680.5	100%	0.013	0.004	-0.08	23.31	24.70	1.377	0.018	22.1
Left tilted	35	QPSK 1_93	136100/680.5	100%	0.009	0.004	0.17	23.31	24.70	1.377	0.012	22.1
Right cheek	35	QPSK 1_93	136100/680.5	100%	0.023	0.011	-0.13	23.31	24.70	1.377	0.032	22.1
Right tilted	35	QPSK 1_93	136100/680.5	100%	0.007	0.003	-0.16	23.31	24.70	1.377	0.010	22.1
Head Test Data (50%RB) state2												
Left cheek	35	QPSK 90_42	136100/680.5	100%	0.011	0.005	-0.12	23.34	24.70	1.368	0.015	22.1
Left tilted	35	QPSK 90_42	136100/680.5	100%	0.007	0.002	-0.15	23.34	24.70	1.368	0.010	22.1
Right cheek	35	QPSK 90_42	136100/680.5	100%	0.018	0.009	0.14	23.34	24.70	1.368	0.025	22.1
Right tilted	35	QPSK 90_42	136100/680.5	100%	0.009	0.005	0.12	23.34	24.70	1.368	0.012	22.1
Body worn Test data (Separate 15mm 1RB) state1												
Front side	35	QPSK 1_93	136100/680.5	100%	0.045	0.035	0.06	23.31	24.70	1.377	0.062	22.2
Back side	35	QPSK 1_93	136100/680.5	100%	0.036	0.026	0.02	23.31	24.70	1.377	0.049	21.9
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	35	QPSK 90_42	136100/680.5	100%	0.036	0.026	0.10	23.34	24.70	1.368	0.050	21.9
Back side	35	QPSK 90_42	136100/680.5	100%	0.044	0.032	-0.04	23.34	24.70	1.368	0.060	21.9
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	35	QPSK 1_93	136100/680.5	100%	0.053	0.036	0.03	23.31	24.70	1.377	0.073	21.9
Back side	35	QPSK 1_93	136100/680.5	100%	0.066	0.048	-0.05	23.31	24.70	1.377	0.091	21.9
Right side	35	QPSK 1_93	136100/680.5	100%	0.135	0.090	0.13	23.31	24.70	1.377	0.186	21.9
Bottom side	35	QPSK 1_93	136100/680.5	100%	0.036	0.021	-0.07	23.31	24.70	1.377	0.050	21.9
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	35	QPSK 90_42	136100/680.5	100%	0.056	0.370	0.09	23.34	24.70	1.368	0.077	21.9
Back side	35	QPSK 90_42	136100/680.5	100%	0.065	0.470	0.19	23.34	24.70	1.368	0.089	21.9
Right side	35	QPSK 90_42	136100/680.5	100%	0.125	0.083	0.09	23.34	24.70	1.368	0.171	21.9
Bottom side	35	QPSK 90_42	136100/680.5	100%	0.030	0.180	0.09	23.34	24.70	1.368	0.041	21.9
Ant1 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	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.(°C)
Head Test Data (1RB) state2												
Left cheek	35	QPSK 1_93	136100/680.5	100%	0.074	0.042	-0.14	22.78	24.10	1.355	0.100	22.1
Left tilted	35	QPSK 1_93	136100/680.5	100%	0.005	0.002	0.12	22.78	24.10	1.355	0.007	22.1
Right cheek	35	QPSK 1_93	136100/680.5	100%	0.100	0.055	-0.05	22.78	24.10	1.355	0.136	22.1
Right tilted	35	QPSK 1_93	136100/680.5	100%	0.007	0.004	-0.12	22.78	24.10	1.355	0.010	22.1
Head Test Data (50%RB) state2												
Left cheek	35	QPSK 90_42	136100/680.5	100%	0.074	0.042	-0.06	22.74	24.10	1.368	0.101	22.1
Left tilted	35	QPSK 90_42	136100/680.5	100%	0.004	0.001	0.16	22.74	24.10	1.368	0.006	22.1
Right cheek	35	QPSK 90_42	136100/680.5	100%	0.097	0.055	-0.13	22.74	24.10	1.368	0.133	22.1



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Right tilted	35	QPSK 90_42	136100/680.5	100%	0.010	0.005	0.17	22.74	24.10	1.368	0.014	22.1
Body worn Test data (Separate 15mm 1RB) state1												
Front side	35	QPSK 1_93	136100/680.5	100%	0.034	0.016	-0.14	22.78	24.10	1.355	0.046	21.9
Back side	35	QPSK 1_93	136100/680.5	100%	0.042	0.021	0.09	22.78	24.10	1.355	0.057	21.9
Body worn Test data (Separate 15mm 50%RB) state1												
Front side	35	QPSK 90_42	136100/680.5	100%	0.031	0.014	0.09	22.74	24.10	1.368	0.042	21.9
Back side	35	QPSK 90_42	136100/680.5	100%	0.039	0.018	-0.08	22.74	24.10	1.368	0.053	21.9
Hotspot Test data (Separate 10mm 1RB) state1												
Front side	35	QPSK 1_93	136100/680.5	100%	0.104	0.062	0.13	22.78	24.10	1.355	0.140	21.9
Back side	35	QPSK 1_93	136100/680.5	100%	0.146	0.083	-0.11	22.78	24.10	1.355	0.198	21.9
Left side	35	QPSK 1_93	136100/680.5	100%	0.242	0.147	-0.04	22.78	24.10	1.355	0.328	22.2
Bottom side	35	QPSK 1_93	136100/680.5	100%	0.052	0.023	-0.16	22.78	24.10	1.355	0.071	21.9
Hotspot Test data (Separate 10mm 50%RB) state1												
Front side	35	QPSK 90_42	136100/680.5	100%	0.077	0.045	-0.15	22.74	24.10	1.368	0.106	21.9
Back side	35	QPSK 90_42	136100/680.5	100%	0.090	0.536	-0.11	22.74	24.10	1.368	0.124	21.9
Left side	35	QPSK 90_42	136100/680.5	100%	0.161	0.088	0.04	22.74	24.10	1.368	0.220	21.9
Bottom side	35	QPSK 90_42	136100/680.5	100%	0.043	0.014	0.12	22.74	24.10	1.368	0.059	21.9



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8.2.23 SAR Result of WIFI 2.4G

Ant9 Test Record chain0												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	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.(°C)
Head Test Data												
Left cheek	802.11b	1/2412	99.57%	1.004	0.666	0.313	-0.06	15.12	16.00	1.225	0.819	21.8
Left tilted	802.11b	1/2412	99.57%	1.004	0.458	0.221	0.12	15.12	16.00	1.225	0.564	21.8
Right cheek	802.11b	1/2412	99.57%	1.004	0.203	0.119	0.17	15.12	16.00	1.225	0.249	21.8
Right tilted	802.11b	1/2412	99.57%	1.004	0.191	0.103	-0.13	15.12	16.00	1.225	0.235	21.8
Left cheek	802.11b	6/2437	99.57%	1.004	0.622	0.285	-0.01	14.87	16.00	1.297	0.810	21.8
Left cheek	802.11b	11/2462	99.57%	1.004	0.632	0.292	-0.06	15.02	16.00	1.253	0.795	21.8
Body worn Test data (Separate 15mm)												
Front side	802.11b	1/2412	99.57%	1.004	0.128	0.072	0.06	17.14	18.00	1.219	0.157	21.8
Back side	802.11b	1/2412	99.57%	1.004	0.172	0.093	-0.12	17.14	18.00	1.219	0.211	21.8
Hotspot Test data (Separate 10mm)												
Front side	802.11b	1/2412	99.57%	1.004	0.215	0.116	0.10	17.14	18.00	1.219	0.264	21.8
Back side	802.11b	1/2412	99.57%	1.004	0.311	0.161	-0.18	17.14	18.00	1.219	0.381	21.8
Right side	802.11b	1/2412	99.57%	1.004	0.156	0.085	-0.17	17.14	18.00	1.219	0.191	21.8
Top side	802.11b	1/2412	99.57%	1.004	0.210	0.103	0.14	17.14	18.00	1.219	0.257	21.8



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8.2.24 SAR Result of WIFI 5G

Ant9 Test Record chain0												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	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.(°C)
Head Test Data of U-NII-2A												
Left cheek	802.11ac VHT80	58/5290	88.56%	1.129	0.508	0.170	0.09	12.81	14.50	1.476	0.846	21.8
Left tilted	802.11ac VHT80	58/5290	88.56%	1.129	0.710	0.211	-0.07	12.81	14.50	1.476	1.183	21.8
Right cheek	802.11ac VHT80	58/5290	88.56%	1.129	0.206	0.072	-0.18	12.81	14.50	1.476	0.343	21.8
Right tilted	802.11ac VHT80	58/5290	88.56%	1.129	0.297	0.100	-0.03	12.81	14.50	1.476	0.494	21.8
Head Test Data of U-NII-2C												
Left cheek	802.11ac VHT80	122/5610	88.56%	1.129	0.670	0.185	0.13	13.37	14.00	1.156	0.874	21.8
Left tilted	802.11ac VHT80	122/5610	88.56%	1.129	0.911	0.246	-0.02	13.37	14.00	1.156	1.189	21.8
Right cheek	802.11ac VHT80	122/5610	88.56%	1.129	0.366	0.122	0.09	13.37	14.00	1.156	0.477	21.8
Right tilted	802.11ac VHT80	122/5610	88.56%	1.129	0.467	0.153	0.03	13.37	14.00	1.156	0.609	21.8
Left tilted	802.11ac VHT80	106/5530	88.56%	1.129	0.871	0.215	-0.07	13.21	14.00	1.199	1.180	21.8
Left tilted with Repeat	802.11ac VHT80	122/5610	88.56%	1.129	0.895	0.234	-0.02	13.37	14.00	1.156	1.168	21.8
Head Test Data of U-NII-3												
Left cheek	802.11ac VHT80	155/5775	88.56%	1.129	0.583	0.194	-0.02	13.42	14.00	1.143	0.752	21.8
Left tilted	802.11ac VHT80	155/5775	88.56%	1.129	0.786	0.239	0.16	13.42	14.00	1.143	1.014	21.8
Right cheek	802.11ac VHT80	155/5775	88.56%	1.129	0.357	0.121	0.05	13.42	14.00	1.143	0.461	21.8
Right tilted	802.11ac VHT80	155/5775	88.56%	1.129	0.425	0.145	0.16	13.42	14.00	1.143	0.549	21.8
Head Evaluate Data of U-NII-2A												
Left cheek	802.11ac VHT80	58/5290	88.56%	1.129	0.508	0.170	0.09	12.81	10.00	0.524	0.300	21.8
Left tilted	802.11ac VHT80	58/5290	88.56%	1.129	0.710	0.211	-0.07	12.81	10.00	0.524	0.420	21.8
Right cheek	802.11ac VHT80	58/5290	88.56%	1.129	0.206	0.072	-0.18	12.81	10.00	0.524	0.122	21.8
Right tilted	802.11ac VHT80	58/5290	88.56%	1.129	0.297	0.100	-0.03	12.81	10.00	0.524	0.175	21.8
Head Evaluate Data of U-NII-2C												
Left cheek	802.11ac VHT80	122/5610	88.56%	1.129	0.670	0.185	0.13	13.37	10.00	0.460	0.348	21.8
Left tilted	802.11ac VHT80	122/5610	88.56%	1.129	0.911	0.246	-0.02	13.37	10.00	0.460	0.473	21.8
Right cheek	802.11ac VHT80	122/5610	88.56%	1.129	0.366	0.122	0.09	13.37	10.00	0.460	0.190	21.8
Right tilted	802.11ac VHT80	122/5610	88.56%	1.129	0.467	0.153	0.03	13.37	10.00	0.460	0.242	21.8
Left tilted	802.11ac VHT80	106/5530	88.56%	1.129	0.871	0.215	-0.07	13.37	10.00	0.460	0.453	21.8
Left tilted with Repeat	802.11ac VHT80	122/5610	88.56%	1.129	0.895	0.234	-0.02	13.37	10.00	0.460	0.465	21.8
Head Evaluate Data of U-NII-3												
Left cheek	802.11ac	155/5775	88.56%	1.129	0.583	0.194	-0.02	13.42	10.00	0.455	0.300	21.8



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	VHT80											
Left tilted	802.11ac VHT80	155/5775	88.56%	1.129	0.786	0.239	0.16	13.42	10.00	0.455	0.404	21.8
Right cheek	802.11ac VHT80	155/5775	88.56%	1.129	0.357	0.121	0.05	13.42	10.00	0.455	0.184	21.8
Right tilted	802.11ac VHT80	155/5775	88.56%	1.129	0.425	0.145	0.16	13.42	10.00	0.455	0.219	21.8
Body worn Test data of U-NII-2A (Separate 15mm)												
Front side	802.11n HT40	54/5270	93.81%	1.066	0.124	0.046	0.08	16.16	17.50	1.361	0.180	21.8
Back side	802.11n HT40	54/5270	93.81%	1.066	0.187	0.071	0.12	16.16	17.50	1.361	0.271	21.8
Body worn Test data of U-NII-2C (Separate 15mm)												
Front side	802.11ac VHT80	122/5610	88.56%	1.129	0.213	0.083	-0.04	17.10	17.50	1.096	0.264	21.8
Back side	802.11ac VHT80	122/5610	88.56%	1.129	0.334	0.121	-0.09	17.10	17.50	1.096	0.414	21.8
Body worn Test data of U-NII-3 (Separate 15mm)												
Front side	802.11ac VHT80	155/5775	88.56%	1.129	0.231	0.090	-0.10	17.00	17.50	1.122	0.293	21.8
Back side	802.11ac VHT80	155/5775	88.56%	1.129	0.324	0.122	0.01	17.00	17.50	1.122	0.410	21.8
Hotspot Test data of U-NII-1 (Separate 10mm)												
Front side	802.11n HT40	46/5230	93.81%	1.066	0.245	0.084	0.09	16.54	17.50	1.247	0.326	21.8
Back side	802.11n HT40	46/5230	93.81%	1.066	0.293	0.099	-0.10	16.54	17.50	1.247	0.390	21.8
Right side	802.11n HT40	46/5230	93.81%	1.066	0.218	0.085	-0.04	16.54	17.50	1.247	0.289	21.8
Top side	802.11n HT40	46/5230	93.81%	1.066	0.703	0.229	0.01	16.54	17.50	1.247	0.934	21.8
Hotspot Test data of U-NII-3 (Separate 10mm)												
Front side	802.11ac VHT80	155/5775	88.56%	1.129	0.380	0.130	-0.01	17.00	17.50	1.122	0.481	21.8
Back side	802.11ac VHT80	155/5775	88.56%	1.129	0.557	0.189	0.14	17.00	17.50	1.122	0.706	21.8
Right side	802.11ac VHT80	155/5775	88.56%	1.129	0.382	0.149	0.19	17.00	17.50	1.122	0.484	21.8
Top side	802.11ac VHT80	155/5775	88.56%	1.129	0.785	0.284	-0.01	17.00	17.50	1.122	0.995	21.8
Hotspot Evaluate data of U-NII-1 (Separate 10mm)												
Front side	802.11n HT40	46/5230	93.81%	1.066	0.245	0.084	0.09	16.54	15.00	0.701	0.183	21.8
Back side	802.11n HT40	46/5230	93.81%	1.066	0.293	0.099	-0.10	16.54	15.00	0.701	0.219	21.8
Right side	802.11n HT40	46/5230	93.81%	1.066	0.218	0.085	-0.04	16.54	15.00	0.701	0.163	21.8
Top side	802.11n HT40	46/5230	93.81%	1.066	0.703	0.229	0.01	16.54	15.00	0.701	0.525	21.8
Hotspot Evaluate data of U-NII-3 (Separate 10mm)												
Front side	802.11ac VHT80	155/5775	88.56%	1.129	0.380	0.130	-0.01	17.00	15.00	0.631	0.270	21.8
Back side	802.11ac VHT80	155/5775	88.56%	1.129	0.557	0.189	0.14	17.00	15.00	0.631	0.397	21.8
Right side	802.11ac VHT80	155/5775	88.56%	1.129	0.382	0.149	0.19	17.00	15.00	0.631	0.272	21.8
Top side	802.11ac VHT80	155/5775	88.56%	1.129	0.785	0.284	-0.01	17.00	15.00	0.631	0.559	21.8
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)



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Product specific 10gSAR Test data of U-NII-2A (Separate 0mm)												
Front side	802.11n HT40	54/5270	93.81%	1.066	2.140	0.627	-0.08	16.16	17.50	1.361	0.910	21.8
Back side	802.11n HT40	54/5270	93.81%	1.066	0.859	0.256	0.11	16.16	17.50	1.361	0.372	21.8
Right side	802.11n HT40	54/5270	93.81%	1.066	1.380	0.366	-0.12	16.16	17.50	1.361	0.531	21.8
Top side	802.11n HT40	54/5270	93.81%	1.066	3.850	1.070	0.10	16.16	17.50	1.361	1.553	21.8
Product specific 10gSAR Test data of U-NII-2C (Separate 0mm)												
Front side	802.11ac VHT80	122/5610	88.56%	1.129	3.130	0.870	0.15	17.10	17.50	1.096	1.077	21.8
Back side	802.11ac VHT80	122/5610	88.56%	1.129	1.170	0.354	0.09	17.10	17.50	1.096	0.438	21.8
Right side	802.11ac VHT80	122/5610	88.56%	1.129	1.600	0.430	0.08	17.10	17.50	1.096	0.532	21.8
Top side	802.11ac VHT80	122/5610	88.56%	1.129	7.190	1.420	-0.03	17.10	17.50	1.096	1.758	21.8

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Left tilted	122/5610	0.911	0.895	1.018	N/A	N/A

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

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

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

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

5) 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. The repeated measurement results must be clearly identified in the SAR report.



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8.2.25 SAR Result of BT

Bluetooth SAR Test Record												
Ant9 Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	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.(°C)
Head Test Data												
Left cheek	DH5	39/2441	77.58%	1.289	0.389	0.184	0.02	15.35	16.00	1.161	0.582	21.8
Left tilted	DH5	39/2441	77.58%	1.289	0.270	0.129	-0.03	15.35	16.00	1.161	0.404	21.8
Right cheek	DH5	39/2441	77.58%	1.289	0.117	0.069	0.08	15.35	16.00	1.161	0.175	21.8
Right tilted	DH5	39/2441	77.58%	1.289	0.108	0.060	0.10	15.35	16.00	1.161	0.162	21.8
Body worn Test data (Separate 15mm)												
Front side	DH5	39/2441	77.58%	1.289	0.027	0.019	-0.02	15.35	16.00	1.161	0.040	21.8
Back side	DH5	39/2441	77.58%	1.289	0.036	0.020	-0.01	15.35	16.00	1.161	0.054	21.8
Hotspot Test data (Separate 10mm)												
Front side	DH5	39/2441	77.58%	1.289	0.059	0.031	0.01	15.35	16.00	1.161	0.088	21.8
Back side	DH5	39/2441	77.58%	1.289	0.081	0.041	-0.01	15.35	16.00	1.161	0.121	21.8
Right side	DH5	39/2441	77.58%	1.289	0.029	0.014	0.13	15.35	16.00	1.161	0.044	21.8
Top side	DH5	39/2441	77.58%	1.289	0.059	0.028	-0.03	15.35	16.00	1.161	0.088	21.8



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8.3 Multiple Transmitter Evaluation

8.3.1 Simultaneous SAR test evaluation

No.	Simultaneous Tx Combination	Head	Body	Hotspot	Extremity
1	WLAN 5G + BT	Yes	Yes	Yes	Yes
2	WWAN + WLAN 2.4G	Yes	Yes	Yes	Yes
3	WWAN + WLAN 5G	Yes	Yes	Yes	Yes
4	WWAN + BT	Yes	Yes	Yes	Yes
5	WWAN + WLAN 5G + BT	Yes	Yes	Yes	Yes
6	WLAN 5G + BT+NFC	No	No	No	Yes
7	WWAN + WLAN 2.4G+NFC	No	No	No	Yes
8	WWAN + WLAN 5G+NFC	No	No	No	Yes
9	WWAN + BT+NFC	No	No	No	Yes
10	WWAN + WLAN 5G + BT+NFC	No	No	No	Yes

Note:

- 1) The device does not support DTM function.
- 2) NFC is different from the working scenario of WWAN/WIFI(Head/Body-worn/Hotspot/Extremity) and does not participate in the simultaneous transmission.
- 3) The NFC test data can be referred to NFC SAR test report (Report No.: SUCR250600056601).



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8.3.2 Simultaneous Transmission SAR Summation Scenario

Head:

Test position		SARmax (W/kg)		Summed SAR
		WiFi 5G Ant9	BT Ant9	
		1	2	
WLAN	Left cheek	0.874	0.088	0.962
	Left tilted	1.189	0.121	1.310
	Right cheek	0.477	\	0.477
	Right tilted	0.609	0.044	0.653

Test position		SARmax (W/kg)							
		WWAN Max SAR	WiFi 2.4G Ant9	WiFi 5G Ant9	BT Ant9				
		1	2	3	4				
GSM 850	Left cheek	0.282	0.819	0.348	0.582	0.864	0.630	0.864	1.212
	Left tilted	0.082	0.564	0.473	0.404	0.486	0.555	0.486	0.959
	Right cheek	0.381	0.249	0.190	0.175	0.556	0.571	0.556	0.746
	Right tilted	0.103	0.235	0.242	0.162	0.265	0.345	0.265	0.507
GSM 1900	Left cheek	0.557	0.819	0.348	0.582	1.139	0.905	1.139	1.487
	Left tilted	0.528	0.564	0.473	0.404	0.932	1.001	0.932	1.405
	Right cheek	0.913	0.249	0.190	0.175	1.088	1.103	1.088	1.278
	Right tilted	0.649	0.235	0.242	0.162	0.811	0.891	0.811	1.053
WCDMA Band II	Left cheek	0.480	0.819	0.348	0.582	1.062	0.828	1.062	1.410
	Left tilted	0.458	0.564	0.473	0.404	0.862	0.931	0.862	1.335
	Right cheek	0.739	0.249	0.190	0.175	0.914	0.929	0.914	1.104
	Right tilted	0.536	0.235	0.242	0.162	0.698	0.778	0.698	0.940
WCDMA Band IV	Left cheek	0.549	0.819	0.348	0.582	1.131	0.897	1.131	1.479
	Left tilted	0.570	0.564	0.473	0.404	0.974	1.043	0.974	1.447
	Right cheek	0.746	0.249	0.190	0.175	0.921	0.936	0.921	1.111
	Right tilted	0.570	0.235	0.242	0.162	0.732	0.812	0.732	0.974
WCDMA Band V	Left cheek	0.432	0.819	0.348	0.582	1.014	0.780	1.014	1.362
	Left tilted	0.109	0.564	0.473	0.404	0.513	0.582	0.513	0.986
	Right cheek	0.547	0.249	0.190	0.175	0.722	0.737	0.722	0.912
	Right tilted	0.136	0.235	0.242	0.162	0.298	0.378	0.298	0.540
LTE Band 2	Left cheek	0.525	0.819	0.348	0.582	1.107	0.873	1.107	1.455
	Left tilted	0.527	0.564	0.473	0.404	0.931	1.000	0.931	1.404
	Right cheek	0.798	0.249	0.190	0.175	0.973	0.988	0.973	1.163
	Right tilted	0.583	0.235	0.242	0.162	0.745	0.825	0.745	0.987
LTE Band 5	Left cheek	0.533	0.819	0.348	0.582	1.115	0.881	1.115	1.463
	Left tilted	0.131	0.564	0.473	0.404	0.535	0.604	0.535	1.008
	Right cheek	0.627	0.249	0.190	0.175	0.802	0.817	0.802	0.992
	Right tilted	0.160	0.235	0.242	0.162	0.322	0.402	0.322	0.564
LTE Band 7	Left cheek	0.439	0.819	0.348	0.582	1.021	0.787	1.021	1.369
	Left tilted	0.421	0.564	0.473	0.404	0.825	0.894	0.825	1.298
	Right cheek	1.071	0.249	0.190	0.175	1.246	1.261	1.246	1.436
	Right tilted	0.798	0.235	0.242	0.162	0.960	1.040	0.960	1.202



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LTE Band 12	Left cheek	0.157	0.819	0.348	0.582	0.739	0.505	0.739	1.087
	Left tilted	0.044	0.564	0.473	0.404	0.448	0.517	0.448	0.921
	Right cheek	0.188	0.249	0.190	0.175	0.363	0.378	0.363	0.553
	Right tilted	0.049	0.235	0.242	0.162	0.211	0.291	0.211	0.453
LTE Band 13	Left cheek	0.204	0.819	0.348	0.582	0.786	0.552	0.786	1.134
	Left tilted	0.055	0.564	0.473	0.404	0.459	0.528	0.459	0.932
	Right cheek	0.265	0.249	0.190	0.175	0.440	0.455	0.440	0.630
	Right tilted	0.067	0.235	0.242	0.162	0.229	0.309	0.229	0.471
LTE Band 26	Left cheek	0.438	0.819	0.348	0.582	1.020	0.786	1.020	1.368
	Left tilted	0.109	0.564	0.473	0.404	0.513	0.582	0.513	0.986
	Right cheek	0.508	0.249	0.190	0.175	0.683	0.698	0.683	0.873
	Right tilted	0.132	0.235	0.242	0.162	0.294	0.374	0.294	0.536
LTE Band 41	Left cheek	0.433	0.819	0.348	0.582	1.015	0.781	1.015	1.363
	Left tilted	0.327	0.564	0.473	0.404	0.731	0.800	0.731	1.204
	Right cheek	0.956	0.249	0.190	0.175	1.131	1.146	1.131	1.321
	Right tilted	0.598	0.235	0.242	0.162	0.760	0.840	0.760	1.002
LTE Band 66	Left cheek	0.559	0.819	0.348	0.582	1.141	0.907	1.141	1.489
	Left tilted	0.541	0.564	0.473	0.404	0.945	1.014	0.945	1.418
	Right cheek	0.915	0.249	0.190	0.175	1.090	1.105	1.090	1.280
	Right tilted	0.574	0.235	0.242	0.162	0.736	0.816	0.736	0.978
LTE Band 71	Left cheek	0.178	0.819	0.348	0.582	0.760	0.526	0.760	1.108
	Left tilted	0.054	0.564	0.473	0.404	0.458	0.527	0.458	0.931
	Right cheek	0.236	0.249	0.190	0.175	0.411	0.426	0.411	0.601
	Right tilted	0.062	0.235	0.242	0.162	0.224	0.304	0.224	0.466
NR Band n2	Left cheek	0.656	0.819	0.348	0.582	1.238	1.004	1.238	1.586
	Left tilted	0.633	0.564	0.473	0.404	1.037	1.106	1.037	1.510
	Right cheek	0.997	0.249	0.190	0.175	1.172	1.187	1.172	1.362
	Right tilted	0.717	0.235	0.242	0.162	0.879	0.959	0.879	1.121
NR Band n5	Left cheek	0.451	0.819	0.348	0.582	1.033	0.799	1.033	1.381
	Left tilted	0.117	0.564	0.473	0.404	0.521	0.590	0.521	0.994
	Right cheek	0.589	0.249	0.190	0.175	0.764	0.779	0.764	0.954
	Right tilted	0.154	0.235	0.242	0.162	0.316	0.396	0.316	0.558
NR Band n7	Left cheek	0.622	0.819	0.348	0.582	1.204	0.970	1.204	1.552
	Left tilted	0.651	0.564	0.473	0.404	1.055	1.124	1.055	1.528
	Right cheek	1.116	0.249	0.190	0.175	1.291	1.306	1.291	1.481
	Right tilted	0.955	0.235	0.242	0.162	1.117	1.197	1.117	1.359
NR Band n26	Left cheek	0.441	0.819	0.348	0.582	1.023	0.789	1.023	1.371
	Left tilted	0.120	0.564	0.473	0.404	0.524	0.593	0.524	0.997
	Right cheek	0.448	0.249	0.190	0.175	0.623	0.638	0.623	0.813
	Right tilted	0.143	0.235	0.242	0.162	0.305	0.385	0.305	0.547
NR Band n38	Left cheek	0.518	0.819	0.348	0.582	1.100	0.866	1.100	1.448
	Left tilted	0.258	0.564	0.473	0.404	0.662	0.731	0.662	1.135
	Right cheek	0.155	0.249	0.190	0.175	0.330	0.345	0.330	0.520
	Right tilted	0.098	0.235	0.242	0.162	0.260	0.340	0.260	0.502
NR Band n41	Left cheek	0.589	0.819	0.348	0.582	1.171	0.937	1.171	1.519
	Left tilted	0.528	0.564	0.473	0.404	0.932	1.001	0.932	1.405
	Right cheek	1.147	0.249	0.190	0.175	1.322	1.337	1.322	1.512
	Right tilted	0.992	0.235	0.242	0.162	1.154	1.234	1.154	1.396
NR Band n66	Left cheek	0.592	0.819	0.348	0.582	1.174	0.940	1.174	1.522
	Left tilted	0.624	0.564	0.473	0.404	1.028	1.097	1.028	1.501



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	Right cheek	0.823	0.249	0.190	0.175	0.998	1.013	0.998	1.188
	Right tilted	0.618	0.235	0.242	0.162	0.780	0.860	0.780	1.022
NR Band n71	Left cheek	0.101	0.819	0.348	0.582	0.683	0.449	0.683	1.031
	Left tilted	0.012	0.564	0.473	0.404	0.416	0.485	0.416	0.889
	Right cheek	0.136	0.249	0.190	0.175	0.311	0.326	0.311	0.501
	Right tilted	0.014	0.235	0.242	0.162	0.176	0.256	0.176	0.418



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Body-Worn

Test position		SARmax (W/kg)		Summed SAR
		WiFi 5G Ant9	BT Ant9	
		1	2	1+2
WLAN	Front side	0.293	0.040	0.333
	Back side	0.414	0.054	0.468

Test position		SARmax (W/kg)							
		WWAN Max SAR	WiFi 2.4G Ant9	WiFi 5G Ant9	BT Ant9				
		1	2	3	4	1+2	1+3	1+4	1+3+4
GSM 850	Front side	0.163	0.157	0.293	0.040	0.203	0.456	0.203	0.496
	Back side	0.189	0.211	0.414	0.054	0.243	0.603	0.243	0.657
GSM 1900	Front side	0.117	0.157	0.293	0.040	0.157	0.410	0.157	0.450
	Back side	0.157	0.211	0.414	0.054	0.211	0.571	0.211	0.625
WCDMA Band II	Front side	0.223	0.157	0.293	0.040	0.263	0.516	0.263	0.556
	Back side	0.231	0.211	0.414	0.054	0.285	0.645	0.285	0.699
WCDMA Band IV	Front side	0.028	0.157	0.293	0.040	0.068	0.321	0.068	0.361
	Back side	0.264	0.211	0.414	0.054	0.318	0.678	0.318	0.732
WCDMA Band V	Front side	0.144	0.157	0.293	0.040	0.184	0.437	0.184	0.477
	Back side	0.164	0.211	0.414	0.054	0.218	0.578	0.218	0.632
LTE Band 2	Front side	0.223	0.157	0.293	0.040	0.263	0.516	0.263	0.556
	Back side	0.231	0.211	0.414	0.054	0.285	0.645	0.285	0.699
LTE Band 5	Front side	0.185	0.157	0.293	0.040	0.225	0.478	0.225	0.518
	Back side	0.223	0.211	0.414	0.054	0.277	0.637	0.277	0.691
LTE Band 7	Front side	0.230	0.157	0.293	0.040	0.270	0.523	0.270	0.563
	Back side	0.249	0.211	0.414	0.054	0.303	0.663	0.303	0.717
LTE Band 12	Front side	0.142	0.157	0.293	0.040	0.182	0.435	0.182	0.475
	Back side	0.166	0.211	0.414	0.054	0.220	0.580	0.220	0.634
LTE Band 13	Front side	0.137	0.157	0.293	0.040	0.177	0.430	0.177	0.470
	Back side	0.199	0.211	0.414	0.054	0.253	0.613	0.253	0.667
LTE Band 26	Front side	0.194	0.157	0.293	0.040	0.234	0.487	0.234	0.527
	Back side	0.206	0.211	0.414	0.054	0.260	0.620	0.260	0.674
LTE Band 41	Front side	0.177	0.157	0.293	0.040	0.217	0.470	0.217	0.510
	Back side	0.236	0.211	0.414	0.054	0.290	0.650	0.290	0.704
LTE Band 66	Front side	0.247	0.157	0.293	0.040	0.287	0.540	0.287	0.580
	Back side	0.278	0.211	0.414	0.054	0.332	0.692	0.332	0.746
LTE Band 71	Front side	0.064	0.157	0.293	0.040	0.104	0.357	0.104	0.397
	Back side	0.094	0.211	0.414	0.054	0.148	0.508	0.148	0.562
NR Band n2	Front side	0.310	0.157	0.293	0.040	0.350	0.603	0.350	0.643
	Back side	0.304	0.211	0.414	0.054	0.358	0.718	0.358	0.772
NR Band n5	Front side	0.160	0.157	0.293	0.040	0.200	0.453	0.200	0.493
	Back side	0.192	0.211	0.414	0.054	0.246	0.606	0.246	0.660
NR Band n7	Front side	0.225	0.157	0.293	0.040	0.265	0.518	0.265	0.558
	Back side	0.208	0.211	0.414	0.054	0.262	0.622	0.262	0.676
NR Band n26	Front side	0.146	0.157	0.293	0.040	0.186	0.439	0.186	0.479
	Back side	0.180	0.211	0.414	0.054	0.234	0.594	0.234	0.648
NR Band	Front side	0.122	0.157	0.293	0.040	0.162	0.415	0.162	0.455



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n38	Back side	0.180	0.211	0.414	0.054	0.234	0.594	0.234	0.648
NR Band n41	Front side	0.172	0.157	0.293	0.040	0.212	0.465	0.212	0.505
	Back side	0.161	0.211	0.414	0.054	0.215	0.575	0.215	0.629
NR Band n66	Front side	0.190	0.157	0.293	0.040	0.230	0.483	0.230	0.523
	Back side	0.210	0.211	0.414	0.054	0.264	0.624	0.264	0.678
NR Band n71	Front side	0.062	0.157	0.293	0.040	0.102	0.355	0.102	0.395
	Back side	0.060	0.211	0.414	0.054	0.114	0.474	0.114	0.528



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Hotspot

Test position		SARmax (W/kg)		Summed SAR
		WiFi 5G Ant9	BT Ant9	
		1	2	
WLAN	Front side	0.481	0.088	0.569
	Back side	0.706	0.121	0.827
	Left side	\	\	\
	Right side	0.484	0.044	0.528
	Top side	0.995	0.088	1.083
	Bottom side	\	\	\

Test position		SARmax (W/kg)							
		WWAN Max SAR	WiFi 2.4G Ant9	WiFi 5G Ant9	BT Ant9				
		1	2	3	4				
GSM 850	Front side	0.328	0.264	0.270	0.088	0.416	0.598	0.416	0.686
	Back side	0.416	0.381	0.397	0.121	0.537	0.813	0.537	0.934
	Left side	0.666	\	\	\	0.666	0.666	0.666	0.666
	Right side	0.287	0.191	0.272	0.044	0.331	0.559	0.331	0.603
	Top side	\	0.257	0.559	0.088	0.088	0.559	0.088	0.647
	Bottom side	0.221	\	\	\	0.221	0.221	0.221	0.221
GSM 1900	Front side	0.195	0.264	0.270	0.088	0.283	0.465	0.283	0.553
	Back side	0.330	0.381	0.397	0.121	0.451	0.727	0.451	0.848
	Left side	0.103	\	\	\	0.103	0.103	0.103	0.103
	Right side	0.015	0.191	0.272	0.044	0.059	0.287	0.059	0.331
	Top side	0.277	0.257	0.559	0.088	0.365	0.836	0.365	0.924
	Bottom side	0.360	\	\	\	0.360	0.360	0.360	0.360
WCDMA Band II	Front side	0.203	0.264	0.270	0.088	0.291	0.473	0.291	0.561
	Back side	0.523	0.381	0.397	0.121	0.644	0.920	0.644	1.041
	Left side	0.101	\	\	\	0.101	0.101	0.101	0.101
	Right side	0.027	0.191	0.272	0.044	0.071	0.299	0.071	0.343
	Top side	0.030	0.257	0.559	0.088	0.118	0.589	0.118	0.677
	Bottom side	0.102	\	\	\	0.102	0.102	0.102	0.102
WCDMA Band IV	Front side	0.043	0.264	0.270	0.088	0.131	0.313	0.131	0.401
	Back side	0.475	0.381	0.397	0.121	0.596	0.872	0.596	0.993
	Left side	0.024	\	\	\	0.024	0.024	0.024	0.024
	Right side	0.016	0.191	0.272	0.044	0.060	0.288	0.060	0.332
	Top side	0.019	0.257	0.559	0.088	0.107	0.578	0.107	0.666
	Bottom side	0.114	\	\	\	0.114	0.114	0.114	0.114
WCDMA Band V	Front side	0.307	0.264	0.270	0.088	0.395	0.577	0.395	0.665
	Back side	0.372	0.381	0.397	0.121	0.493	0.769	0.493	0.890
	Left side	0.614	\	\	\	0.614	0.614	0.614	0.614
	Right side	0.206	0.191	0.272	0.044	0.250	0.478	0.250	0.522
	Top side	\	0.257	0.559	0.088	0.088	0.559	0.088	0.647
	Bottom side	0.154	\	\	\	0.154	0.154	0.154	0.154
LTE Band 2	Front side	0.513	0.264	0.270	0.088	0.601	0.783	0.601	0.871
	Back side	0.526	0.381	0.397	0.121	0.647	0.923	0.647	1.044
	Left side	0.235	\	\	\	0.235	0.235	0.235	0.235



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	Right side	0.104	0.191	0.272	0.044	0.148	0.376	0.148	0.420
	Top side	0.573	0.257	0.559	0.088	0.661	1.132	0.661	1.220
	Bottom side	0.499	\	\	\	0.499	0.499	0.499	0.499
LTE Band 5	Front side	0.307	0.264	0.270	0.088	0.395	0.577	0.395	0.665
	Back side	0.377	0.381	0.397	0.121	0.498	0.774	0.498	0.895
	Left side	0.627	\	\	\	0.627	0.627	0.627	0.627
	Right side	0.228	0.191	0.272	0.044	0.272	0.500	0.272	0.544
	Top side	\	0.257	0.559	0.088	0.088	0.559	0.088	0.647
	Bottom side	0.179	\	\	\	0.179	0.179	0.179	0.179
LTE Band 7	Front side	0.480	0.264	0.270	0.088	0.568	0.750	0.568	0.838
	Back side	0.469	0.381	0.397	0.121	0.590	0.866	0.590	0.987
	Left side	0.250	\	\	\	0.250	0.250	0.250	0.250
	Right side	0.111	0.191	0.272	0.044	0.155	0.383	0.155	0.427
	Top side	0.431	0.257	0.559	0.088	0.519	0.990	0.519	1.078
	Bottom side	0.412	\	\	\	0.412	0.412	0.412	0.412
LTE Band 12	Front side	0.141	0.264	0.270	0.088	0.229	0.411	0.229	0.499
	Back side	0.166	0.381	0.397	0.121	0.287	0.563	0.287	0.684
	Left side	0.256	\	\	\	0.256	0.256	0.256	0.256
	Right side	0.249	0.191	0.272	0.044	0.293	0.521	0.293	0.565
	Top side	\	0.257	0.559	0.088	0.088	0.559	0.088	0.647
	Bottom side	0.091	\	\	\	0.091	0.091	0.091	0.091
LTE Band 13	Front side	0.129	0.264	0.270	0.088	0.217	0.399	0.217	0.487
	Back side	0.167	0.381	0.397	0.121	0.288	0.564	0.288	0.685
	Left side	0.314	\	\	\	0.314	0.314	0.314	0.314
	Right side	0.222	0.191	0.272	0.044	0.266	0.494	0.266	0.538
	Top side	\	0.257	0.559	0.088	0.088	0.559	0.088	0.647
	Bottom side	0.105	\	\	\	0.105	0.105	0.105	0.105
LTE Band 26	Front side	0.230	0.264	0.270	0.088	0.318	0.500	0.318	0.588
	Back side	0.284	0.381	0.397	0.121	0.405	0.681	0.405	0.802
	Left side	0.501	\	\	\	0.501	0.501	0.501	0.501
	Right side	0.230	0.191	0.272	0.044	0.274	0.502	0.274	0.546
	Top side	\	0.257	0.559	0.088	0.088	0.559	0.088	0.647
	Bottom side	0.169	\	\	\	0.169	0.169	0.169	0.169
LTE Band 41	Front side	0.330	0.264	0.270	0.088	0.418	0.600	0.418	0.688
	Back side	0.353	0.381	0.397	0.121	0.474	0.750	0.474	0.871
	Left side	0.160	\	\	\	0.160	0.160	0.160	0.160
	Right side	0.091	0.191	0.272	0.044	0.135	0.363	0.135	0.407
	Top side	0.334	0.257	0.559	0.088	0.422	0.893	0.422	0.981
	Bottom side	0.575	\	\	\	0.575	0.575	0.575	0.575
LTE Band 66	Front side	0.387	0.264	0.270	0.088	0.475	0.657	0.475	0.745
	Back side	0.459	0.381	0.397	0.121	0.580	0.856	0.580	0.977
	Left side	0.176	\	\	\	0.176	0.176	0.176	0.176
	Right side	0.094	0.191	0.272	0.044	0.138	0.366	0.138	0.410
	Top side	0.418	0.257	0.559	0.088	0.506	0.977	0.506	1.065
	Bottom side	0.138	\	\	\	0.138	0.138	0.138	0.138
LTE Band 71	Front side	0.105	0.264	0.270	0.088	0.193	0.375	0.193	0.463
	Back side	0.139	0.381	0.397	0.121	0.260	0.536	0.260	0.657
	Left side	0.285	\	\	\	0.285	0.285	0.285	0.285
	Right side	0.157	0.191	0.272	0.044	0.201	0.429	0.201	0.473
	Top side	\	0.257	0.559	0.088	0.088	0.559	0.088	0.647



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	Bottom side	0.038	\	\	\	0.038	0.038	0.038	0.038
NR Band n2	Front side	0.604	0.264	0.270	0.088	0.692	0.874	0.692	0.962
	Back side	0.665	0.381	0.397	0.121	0.786	1.062	0.786	1.183
	Left side	0.285	\	\	\	0.285	0.285	0.285	0.285
	Right side	0.139	0.191	0.272	0.044	0.183	0.411	0.183	0.455
	Top side	0.752	0.257	0.559	0.088	0.840	1.311	0.840	1.399
	Bottom side	0.492	\	\	\	0.492	0.492	0.492	0.492
NR Band n5	Front side	0.315	0.264	0.270	0.088	0.403	0.585	0.403	0.673
	Back side	0.382	0.381	0.397	0.121	0.503	0.779	0.503	0.900
	Left side	0.714	\	\	\	0.714	0.714	0.714	0.714
	Right side	0.286	0.191	0.272	0.044	0.330	0.558	0.330	0.602
	Top side	\	0.257	0.559	0.088	0.088	0.559	0.088	0.647
	Bottom side	0.248	\	\	\	0.248	0.248	0.248	0.248
NR Band n7	Front side	0.473	0.264	0.270	0.088	0.561	0.743	0.561	0.831
	Back side	0.524	0.381	0.397	0.121	0.645	0.921	0.645	1.042
	Left side	0.237	\	\	\	0.237	0.237	0.237	0.237
	Right side	0.130	0.191	0.272	0.044	0.174	0.402	0.174	0.446
	Top side	0.483	0.257	0.559	0.088	0.571	1.042	0.571	1.130
	Bottom side	0.532	\	\	\	0.532	0.532	0.532	0.532
NR Band n26	Front side	0.253	0.264	0.270	0.088	0.341	0.523	0.341	0.611
	Back side	0.295	0.381	0.397	0.121	0.416	0.692	0.416	0.813
	Left side	0.661	\	\	\	0.661	0.661	0.661	0.661
	Right side	0.239	0.191	0.272	0.044	0.283	0.511	0.283	0.555
	Top side	\	0.257	0.559	0.088	0.088	0.559	0.088	0.647
	Bottom side	0.199	\	\	\	0.199	0.199	0.199	0.199
NR Band n38	Front side	0.215	0.264	0.270	0.088	0.303	0.485	0.303	0.573
	Back side	0.357	0.381	0.397	0.121	0.478	0.754	0.478	0.875
	Left side	0.073	\	\	\	0.073	0.073	0.073	0.073
	Right side	\	0.191	0.272	0.044	0.044	0.272	0.044	0.316
	Top side	\	0.257	0.559	0.088	0.088	0.559	0.088	0.647
	Bottom side	0.421	\	\	\	0.421	0.421	0.421	0.421
NR Band n41	Front side	0.324	0.264	0.270	0.088	0.412	0.594	0.412	0.682
	Back side	0.325	0.381	0.397	0.121	0.446	0.722	0.446	0.843
	Left side	0.147	\	\	\	0.147	0.147	0.147	0.147
	Right side	0.189	0.191	0.272	0.044	0.233	0.461	0.233	0.505
	Top side	0.372	0.257	0.559	0.088	0.460	0.931	0.460	1.019
	Bottom side	0.370	\	\	\	0.370	0.370	0.370	0.370
NR Band n66	Front side	0.334	0.264	0.270	0.088	0.422	0.604	0.422	0.692
	Back side	0.374	0.381	0.397	0.121	0.495	0.771	0.495	0.892
	Left side	0.166	\	\	\	0.166	0.166	0.166	0.166
	Right side	0.075	0.191	0.272	0.044	0.119	0.347	0.119	0.391
	Top side	0.366	0.257	0.559	0.088	0.454	0.925	0.454	1.013
	Bottom side	0.155	\	\	\	0.155	0.155	0.155	0.155
NR Band n71	Front side	0.140	0.264	0.270	0.088	0.228	0.410	0.228	0.498
	Back side	0.198	0.381	0.397	0.121	0.319	0.595	0.319	0.716
	Left side	0.328	\	\	\	0.328	0.328	0.328	0.328
	Right side	0.186	0.191	0.272	0.044	0.230	0.458	0.230	0.502
	Top side	\	0.257	0.559	0.088	0.088	0.559	0.088	0.647
	Bottom side	0.071	\	\	\	0.071	0.071	0.071	0.071



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0mm

Test position	SARmax (W/kg)		Summed SAR
	NFC	WIFI 5G	
	1	2	
Front side	0.000	1.077	1.077
Back side	0.027	0.438	0.465
Left side	0.000	\	0.000
Right side	0.000	0.532	0.532
Top side	0.000	1.758	1.758
Bottom side	0.000	\	0.000



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9 Equipment list

Test Platform		SPEAG DASY Professional					
Description		SAR Test System					
Software Reference		cDASY8 V16.4.0.5005					
Hardware Reference							
Equipment		Manufacturer	Model	Inventory No.	Calibration Date	Due date of calibration	
☒	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-026	NCR	NCR	
☒	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-027	NCR	NCR	
☒	DAE	SPEAG	DAE4ip	SZ-WSR-M-074	2024/08/08	2025/08/07	
☒	DAE	SPEAG	DAE4ip	SZ-WSR-M-078	2024/10/18	2025/10/17	
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-075	2024/08/29	2025/08/28	
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-079	2024/11/20	2025/11/19	
☒	Validation Kits	SPEAG	D750V3	SZ-WSR-M-032	2022/06/06	2025/06/05	
☒	Validation Kits	SPEAG	D835V2	SZ-WSR-M-033	2022/11/02	2025/11/01	
☒	Validation Kits	SPEAG	D1750V2	SZ-WSR-M-035	2022/06/17	2025/06/16	
☒	Validation Kits	SPEAG	D1900V2	SZ-WSR-M-036	2022/11/02	2025/11/01	
☒	Validation Kits	SPEAG	D1950V3	SZ-WSR-M-037	2022/10/31	2025/10/30	
☒	Validation Kits	SPEAG	D2450V2	SZ-WSR-M-039	2022/11/02	2025/11/01	
☒	Validation Kits	SPEAG	D2600V2	SZ-WSR-M-040	2022/06/14	2025/06/13	
☒	Validation Kits	SPEAG	D5GHzV2	SZ-WSR-M-046	2022/11/01	2025/10/31	
☒	Dielectric parameter probes	SPEAG	DAK-3.5	SZ-WSR-M-093	2024/11/18	2025/11/17	
☒	Vector Network Analyzer and Vector Reflectometer	Agilent	E5071C	SZ-WSR-M-067	2024/12/19	2025/12/18	
☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-005	2025/01/08	2026/01/07	
☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-018	2025/05/22	2026/05/21	
☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-020	2024/08/19	2025/08/18	
☒	RF Bi-Directional Coupler	Agilent	86205-60001	SZ-WSR-A-004	NCR	NCR	
☒	Signal Generator	Agilent	N5171B	SZ-WSR-M-006	2025/01/07	2026/01/06	
☒	Preamplifier	Mini-Circuits	ZHL-42W	SZ-WSR-A-001	NCR	NCR	
☒	Preamplifier	Compliance Directions Systems Inc.	AMP28-3W	SZ-WSR-A-002	NCR	NCR	
☒	Power Meter	Agilent	E4416A	SZ-WSR-M-007	2025/01/07	2026/01/06	
☒	Power Sensor	Agilent	8481H	SZ-WSR-M-008	2025/01/07	2026/01/06	
☒	Power Sensor	R&S	NRP-Z92	SZ-WSR-M-009	2025/01/08	2026/01/07	
☒	Attenuator	SHX	TS2-3dB	SZ-WSR-A-012	NCR	NCR	



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☒	Speed reading thermometer	Zhengzhou Boyang Instrument	TP3001	SZ-WSR-M-014	2025/05/19	2026/05/18
☒	Temperature	MingGao	T809	SZ-WSR-M-015	2025/05/19	2026/05/18
☒	Temperature	MingGao	T809	SZ-WSR-M-016	2025/05/19	2026/05/18
☒	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-013	2025/05/16	2026/05/15
☒	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-012	2025/05/16	2026/05/15
☒	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-011	2025/05/19	2026/05/18

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



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10 Calibration certificate

Please see the Appendix C

11 Photographs

Please see the Appendix D

Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs

Appendix E: Conducted RF Output Power

--- End of report ---



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