



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZSAR-TRF-01 Rev. A/1

Report No.: SZCR250900414408

Page: 1 of 134

SAR TEST REPORT

Application No.: SZCR2509004144WM
Applicant: TCL Communication Ltd.
Address of Applicant: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Manufacturer: TCL Communication Ltd.
Address of Manufacturer: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
EUT Description: GSM/UMTS/LTE/NR Mobile phone
Model No.: T440G
FCC ID: 2ACCJH201
Standards: FCC 47CFR §2.1093
Date of Receipt: 2025-09-22
Date of Test: 2025-09-25 to 2025-10-15
Date of Issue: 2025-10-30

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

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

Keny Xu

Keny Xu
EMC Laboratory Manager



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Revision Record

Version	Chapter	Date	Modifier	Remark
01		2025-10-30		Original

Authorized for issue
by:

Charlie Dai

Charlie Dai/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	0.41	1.00	1.19	/
GSM1900	1.25	0.71	1.11	/
WCDMA Band II	0.58	0.46	0.97	/
WCDMA Band V	0.50	0.89	0.97	/
LTE Band 2	0.83	0.35	0.97	/
LTE Band 5	0.43	0.74	0.90	/
LTE Band 12	0.20	0.62	1.02	/
LTE Band 13	0.44	0.84	0.85	/
LTE Band 48	1.16	0.23	0.59	/
LTE Band 66(4)	0.51	0.41	0.75	/
NR Band n2	0.59	0.30	0.77	/
NR Band n5	0.32	0.64	0.82	/
NR Band n48	1.27	0.45	1.19	/
NR Band n66	0.43	0.24	0.83	/
NR Band n77	1.06	0.76	1.19	/
WI-FI (2.4GHz)	0.40	<0.10	0.19	/
WI-FI (5GHz)	0.25	0.49	0.41	1.44
BT	<0.1	<0.1	0.11	/
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	1.44	1.32	1.48	/
SPLSR	/	/	/	/
SPLSR Limited	0.04			0.1



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1 General Information

1.1 General Description of EUT

Product Name:	GSM/UMTS/LTE/NR Mobile phone		
Model No.:	T440G		
Product Phase:	production unit		
Device Type:	portable device		
Exposure Category:	uncontrolled environment / general population		
IMEI:	016735000211113, 016735000211097, 016735000000771, 016735000000573, 016735000000441, 016735000000888, 016735000000524.		
Hardware Version:	05		
Software Version:	AT4C		
Antenna Type:	FPC Antenna		
Device Operating Configurations:			
Modulation Mode:	GSM:GMSK,8PSK; WCDMA:QPSK,16QAM LTE:QPSK,16QAM,64QAM,256QAM 5G NR:DFT-s-OFDM(QPSK,16QAM,64QAM,256QAM) CP-OFDM(QPSK,16QAM,64QAM,256QAM) WIFI:DSSS,OFDM; 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 V	824~849	
	LTE Band 2	1850 ~1910	



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	LTE Band 4	1710~1755
	LTE Band 5	824~849
	LTE Band 12	699~716
	LTE Band 13	777~787
	LTE Band 48	3550~3700
	LTE Band 66	1710~1780
	NR Band n2	1850 ~1910
	NR Band n5	824~849
	NR Band n48	3550~3700
	NR Band n66	1710~1780
	NR Band n77	3450~3550
		3700~3980
	WIFI 2.4G	2412~2462
	WIFI 5G	5150~5250
		5250~5350
		5470~5725
		5725~5850
	BT	2402~2480
RF Cable:	☒ Provided by applicant ☐ Provided by the laboratory	
Battery Information:	Model 1:	CAC2900035C7
	Normal Voltage:	3.87V
	Rated capacity:	2900mAh
	Manufacturer:	VEKEN
	Model 2:	CAC2900037C9
	Normal Voltage:	3.87V
	Rated capacity:	2900mAh
	Manufacturer:	FENGHUA
Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.		

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	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

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.)

1.4 Test Location

All tests were performed at:

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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.

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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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- 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: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$		$\leq 2 \text{ GHz}: \leq 15 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 12 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 12 \text{ mm}$ $4 - 6 \text{ GHz}: \leq 10 \text{ mm}$
		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: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$		$\leq 2 \text{ GHz}: \leq 8 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 5 \text{ mm}^*$	$3 - 4 \text{ GHz}: \leq 5 \text{ mm}^*$ $4 - 6 \text{ GHz}: \leq 4 \text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$	$\leq 5 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 4 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 3 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
	graded grid $\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	$\leq 4 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 3 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 2.5 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
	$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
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

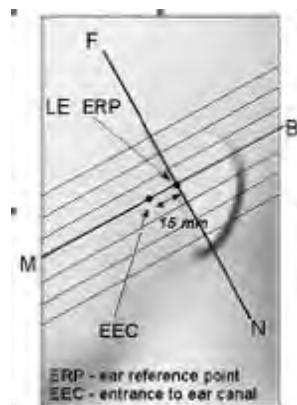


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

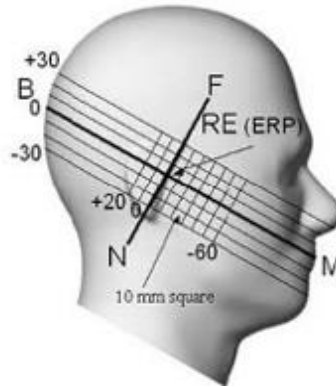
Note: The centre strip including the nose region has a different thickness tolerance.



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

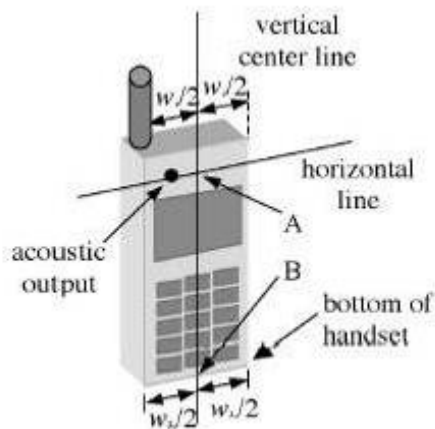


F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations

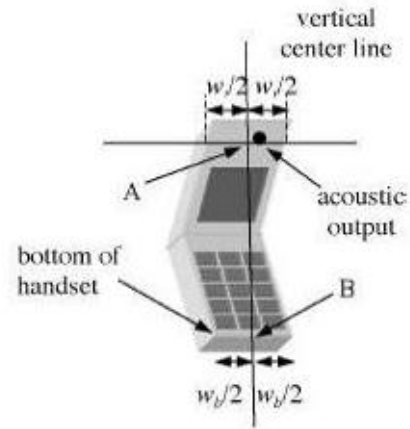


F-6.Side view of the phantom showing relevant markings and seven cross-sectional plane locations

5.1.2 EUT constructions



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



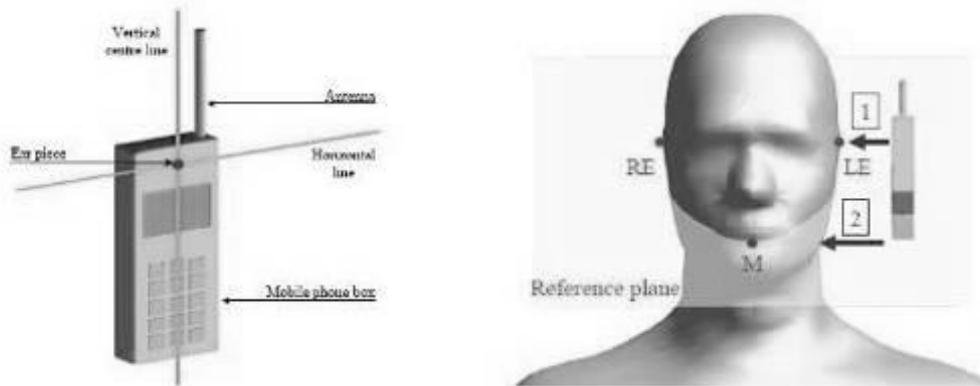
F-8.Handset vertical and horizontal reference lines-
“clam-shell case”

5.1.3 Definition of the “check” position

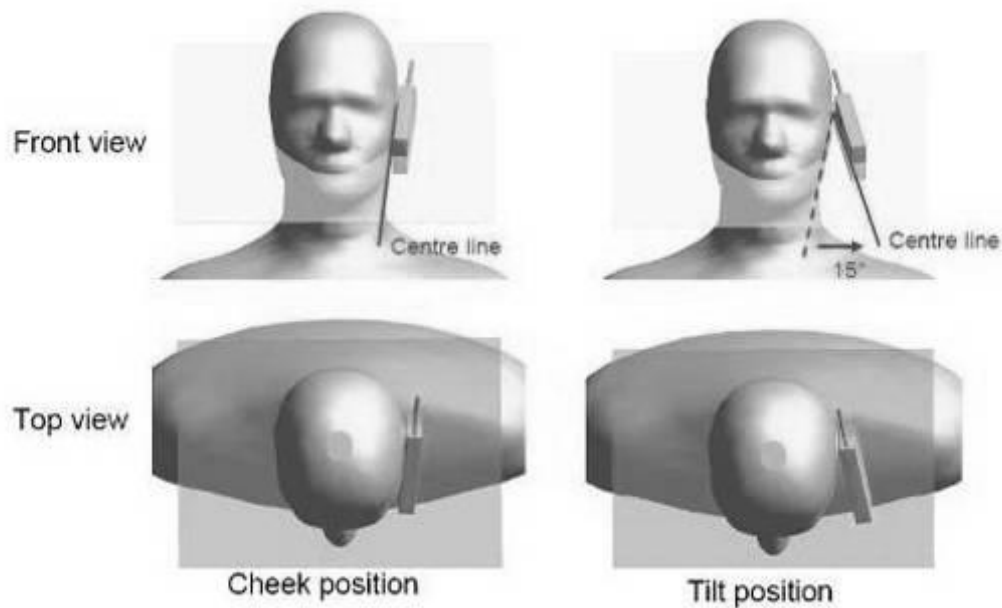
- a) Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom (“initial position”). While maintaining the device in this plane, align the vertical centre line with 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

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



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



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

5.2 The Body Test Position

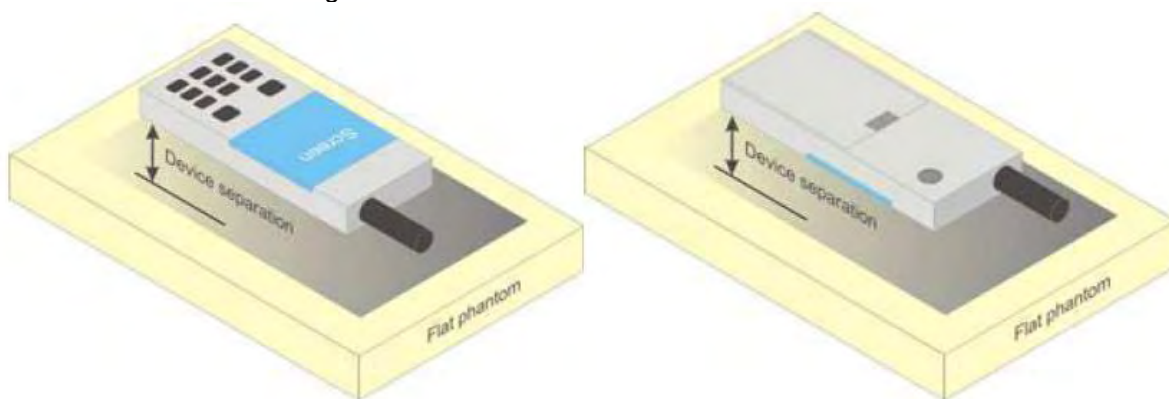
5.2.1 Body-worn exposure conditions

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 D04 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.



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6 SAR System Verification Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

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

Ingredients (% by weight)	Frequency (MHz)				
	450	700-1000	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 MΩ+ resistivity Tween: Polyoxyethylene (20) sorbitan monolaurate Sucrose: 98+% Pure Sucrose HEC: Hydroxyethyl Cellulose					
Head Tissue Simulate Liquid (HBBL600-10000V6) 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 1 : Recipe of Tissue Simulate Liquid

6.1.2 Measurement for Tissue Simulate Liquid

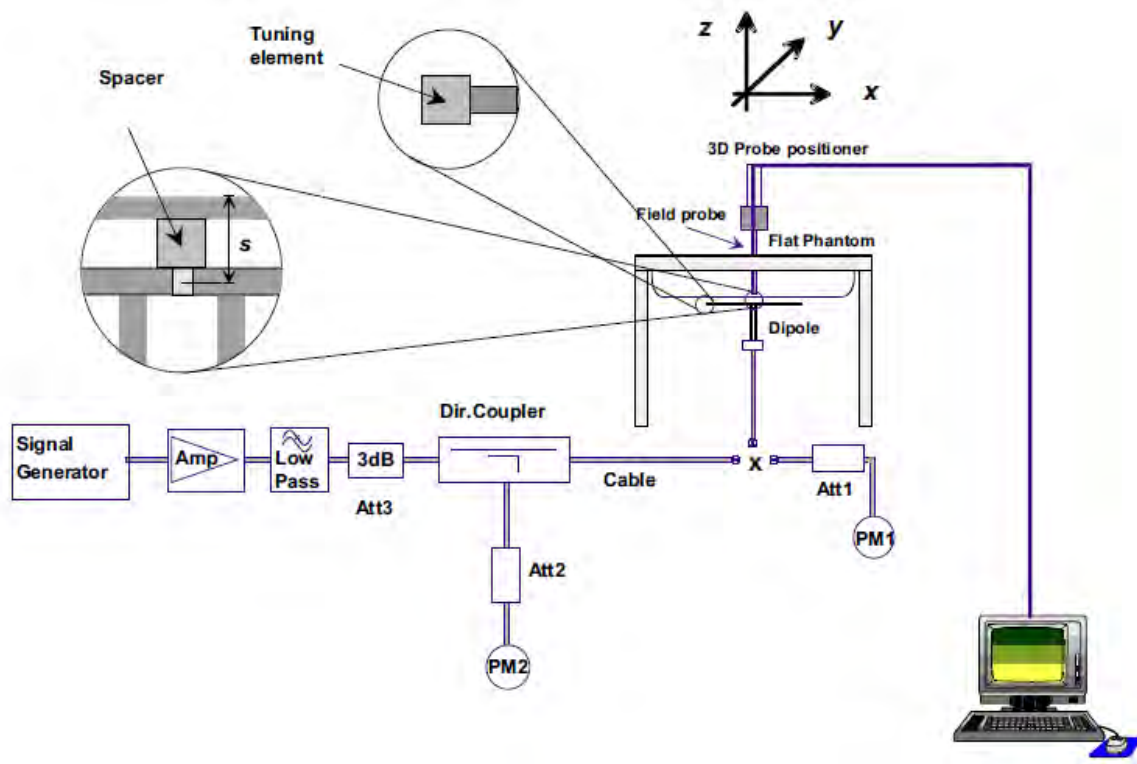
The Conductivity (σ) and Permittivity (ϵ_r) are listed in Table 2. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was $22 \pm 2^\circ\text{C}$.

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	40.699	0.888	41.90	0.89	-2.87%	-0.22%	22.1	2025/10/15
835 Head	835	40.302	0.935	41.50	0.90	-2.89%	3.89%	22.1	2025/10/11
835 Head	835	40.312	0.936	41.50	0.90	-2.86%	4.00%	22.1	2025/10/13
1750 Head	1750	40.729	1.376	40.10	1.37	1.57%	0.44%	22.1	2025/10/9
1900 Head	1900	40.704	1.438	40.00	1.40	1.76%	2.71%	22.1	2025/9/25
1900 Head	1900	40.724	1.440	40.00	1.40	1.81%	2.86%	22.1	2025/9/27
1900 Head	1900	40.744	1.442	40.00	1.40	1.86%	3.00%	22.1	2025/9/29
2450 Head	2450	38.589	1.811	39.20	1.80	-1.56%	0.61%	22.1	2025/10/13
3500 Head	3500	38.373	2.966	37.90	2.91	1.25%	1.92%	22.0	2025/9/27
3700 Head	3700	37.366	3.066	37.70	3.12	-0.89%	-1.73%	22.0	2025/9/27
3700 Head	3700	37.353	3.064	37.70	3.12	-0.92%	-1.79%	22.2	2025/9/29
3900 Head	3900	37.105	3.283	37.50	3.32	-1.05%	-1.11%	21.9	2025/10/11
5250 Head	5250	36.912	4.729	35.90	4.71	2.82%	0.40%	22.3	2025/10/9
5600 Head	5600	35.960	5.116	35.50	5.07	1.30%	0.91%	21.7	2025/10/2
5750 Head	5750	35.596	5.287	35.40	5.22	0.55%	1.28%	22.0	2025/10/6

Table 2 : 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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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	1.99	1.36	7.96	5.44	8.42	5.49	-5.46%	-0.91%	22.1	2025/10/15
D835V2_Head	2.50	1.71	10.00	6.84	9.53	6.29	4.93%	8.74%	22.1	2025/10/11
D835V2_Head	2.49	1.67	9.96	6.68	9.53	6.29	4.51%	6.20%	22.1	2025/10/13
D1750V2_Head	8.96	5.12	35.84	20.48	36.20	19.10	-0.99%	7.23%	22.1	2025/10/9
D1900V2_Head	9.21	5.1	36.84	20.40	39.50	20.60	-6.73%	-0.97%	22.1	2025/9/25
D1900V2_Head	9.22	5.11	36.88	20.44	39.50	20.60	-6.63%	-0.78%	22.1	2025/9/27
D1900V2_Head	9.23	5.11	36.92	20.44	39.50	20.60	-6.53%	-0.78%	22.1	2025/9/29
D2450V2_Head	13.10	6.05	52.40	24.20	52.20	24.30	0.38%	-0.41%	22.1	2025/10/13
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)		
D3500V2_3.5GHz_Head	6.81	2.71	68.10	27.10	66.30	25.10	2.71%	7.97%	22.0	2025/9/27
D3700V2_Head	6.38	2.38	63.80	23.80	67.30	24.70	-5.20%	-3.64%	22.0	2025/9/27
D3700V2_Head	6.52	2.50	65.20	25.00	67.30	24.70	-3.12%	1.21%	22.2	2025/9/29
D3900V2_3.9GHz_Head	7.12	2.46	71.20	24.60	69.70	24.40	2.15%	0.82%	21.9	2025/10/11
D5GHzV2_5.25G_Head	7.86	2.28	78.60	22.80	77.30	22.10	1.68%	3.17%	22.3	2025/10/9
D5GHzV2_5.6G_Head	8.28	2.38	82.80	23.80	81.30	23.10	1.85%	3.03%	21.7	2025/10/2
D5GHzV2_5.75G_Head	7.56	2.18	75.60	21.80	77.10	21.30	-1.95%	2.35%	22.0	2025/10/6

Table 3 : SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A



7 Test Configuration

7.1 Operation Configurations

7.1.1 GSM Test Configuration

SAR tests for GSM frequency band, a communication link is set up with a base station by air link. Using Radio Communication Analyzer, the power lever is set to “5” or “0” in SAR of GSM frequency band. The tests in the GSM frequency band are performed in the mode of GPRS/EGPRS function.

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.

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

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).

7.1.2 WCDMA Test Configuration

1) Output Power Verification

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

2) Head SAR

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

3) Body SAR



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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 4 : 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 5 : 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 ^o	$\beta_{c\downarrow}$	$\beta_{d\downarrow}$	β_d (SF)) ^o	β_c/β_d	$\beta_{hs}(1)$) ^o	$\beta_{acc\downarrow}$	$\beta_{ed\downarrow}$	$\beta_{c\downarrow}$ (SF)) ^o	$\beta_{ed\downarrow}$ (code)) ^o	CM(2)) ^o	MP R _o (dB)) ^o	AG ⁽⁴⁾) ^o	E- TFC I _o
1 ^o	11/15 ⁽³⁾	15/15 ⁽³⁾	64 ^o	11/15 ⁽³⁾	22/15 ^o	209/22 5 ^o	1039/225 ^o	4 ^o	1 ^o	1.0 ^o	0.0 ^o	20 ^o	75 ^o
2 ^o	6/15 ^o	15/15 ^o	64 ^o	6/15 ^o	12/15 ^o	12/15 ^o	94/75 ^o	4 ^o	1 ^o	3.0 ^o	2.0 ^o	12 ^o	67 ^o
3 ^o	15/15 ^o	9/15 ^o	64 ^o	15/9 ^o	30/15 ^o	30/15 ^o	$\beta_{ed1}:47/1$ 5 ^o $\beta_{ed2}:47/1$ 5 ^o	4 ^o	2 ^o	2.0 ^o	1.0 ^o	15 ^o	92 ^o
4 ^o	2/15 ^o	15/15 ^o	64 ^o	2/15 ^o	4/15 ^o	2/15 ^o	56/75 ^o	4 ^o	1 ^o	3.0 ^o	2.0 ^o	17 ^o	71 ^o
5 ^o	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64 ^o	15/15 ⁽⁴⁾	30/15 ^o	24/15 ^o	134/15 ^o	4 ^o	1 ^o	1.0 ^o	0.0 ^o	21 ^o	81 ^o
Note 1: ΔACK, $\Delta NACK$ and $\Delta CQI = 8$ $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_{c\downarrow}$ Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference^o Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$^o Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$^o Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g^o Note 6: β_{ed} can not be set directly; it is set by Absolute Grant Value.^o													

Table 6: 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 7: 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 8 : 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.



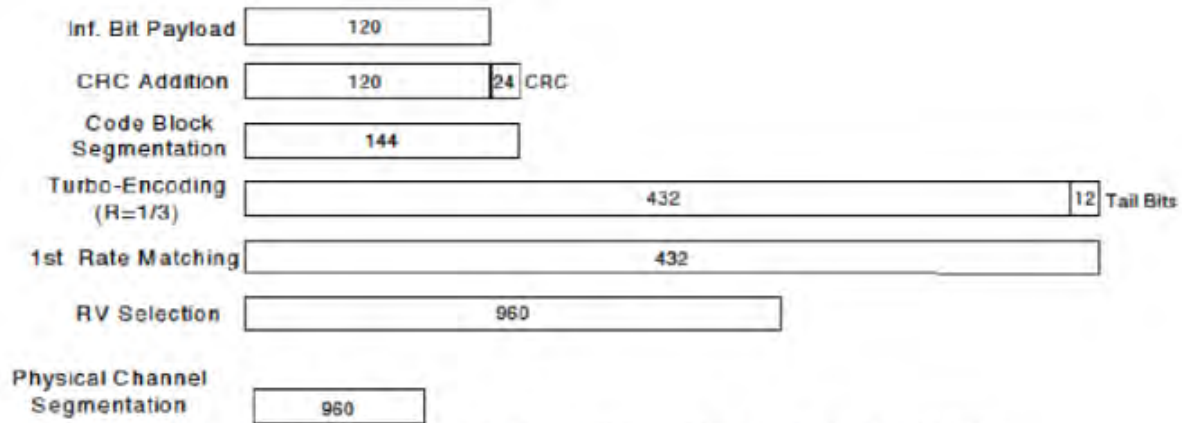


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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 $\Delta CQI=8$ $A_{hs}=\beta_{hs}/\beta_c=30/15$ $\beta_{hs}=30/15 \cdot \beta_c$
 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.

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_{cs} (Note 3)	β_d	β_{HS} (Note 1)	β_{ec}	β_{ed1} (2xSF2) (Note 4)	β_{ed3} (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.											

5) 3G SAR Test Reduction Procedure

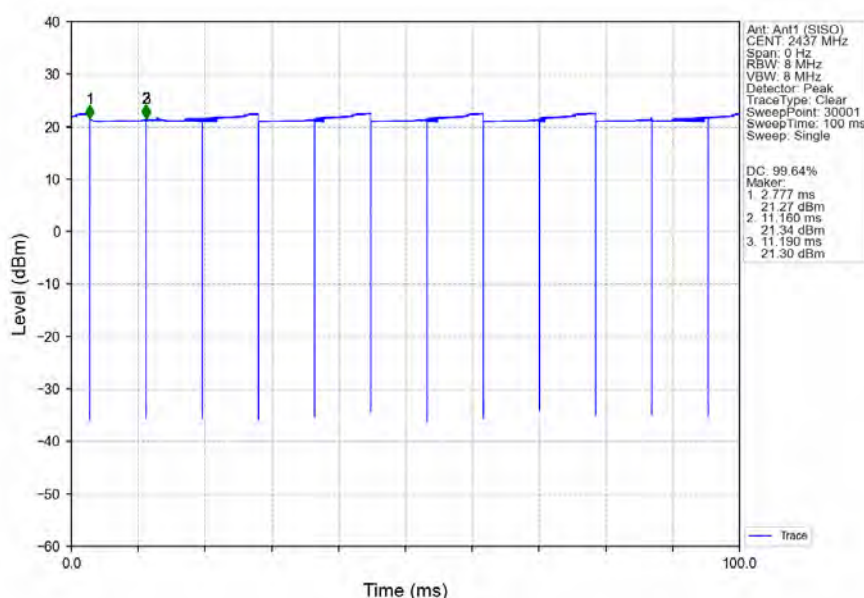
According to KDB 941225D01, in the following procedures, the mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power 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.

7.1.3 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.

7.1.3.1 Duty cycle

1) Wi-Fi 2.4GHz 802.11b:Duty cycle=99.64%



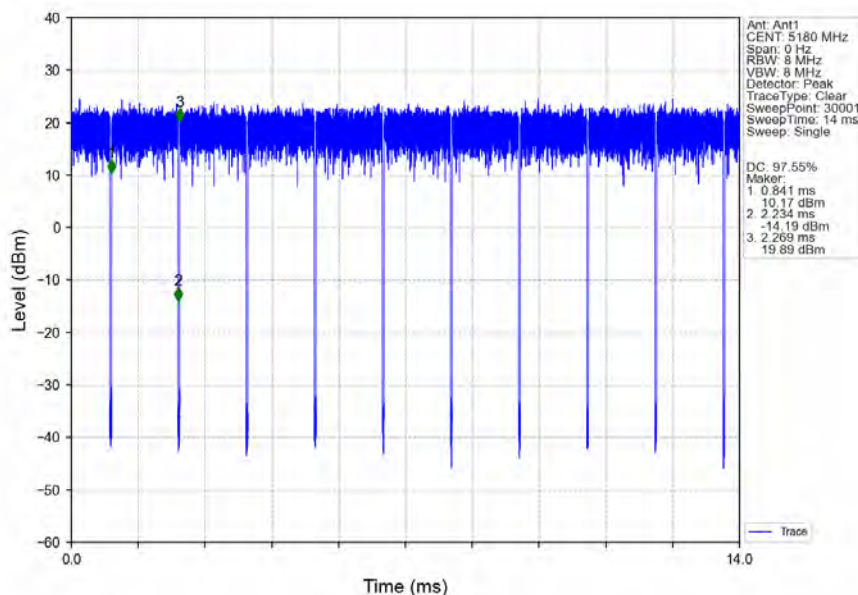
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2) Wi-Fi 5GHz 802.11a: Duty cycle=97.55%



7.1.3.2 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.



7.1.3.3 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"



7.1.3.4 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.

7.1.3.5 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.



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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.

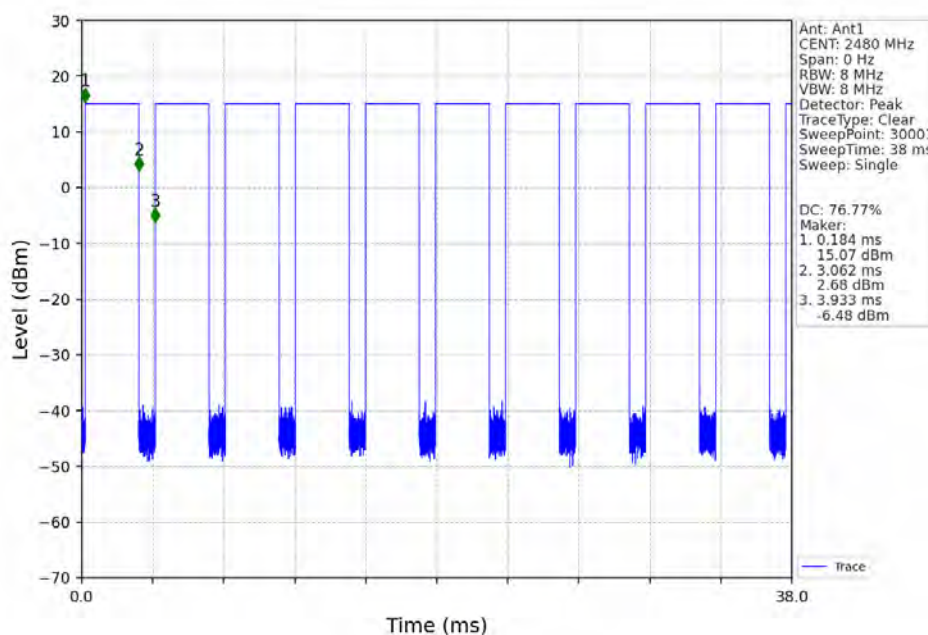


7.1.4 BT Test Configuration

For the Bluetooth SAR tests, a communication link is set up with the test mode software for BT mode test. Bluetooth USES frequency hopping technology to divide the transmitted data into packets and transmit the packets respectively through 79 designated Bluetooth channels, frequency hops at 1600 hops/second per the Bluetooth standard, the EUT is operated at the RF continuous emission mode.

7.1.4.1 Duty cycle

BT DH5 Duty Cycle=76.77%



7.1.5 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:

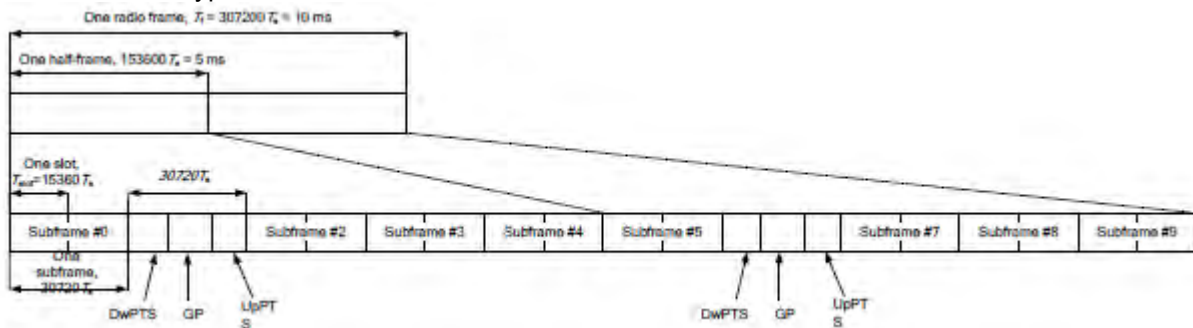


Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

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.

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



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64QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	2
64QAM	> 5	> 4	> 8	> 12	> 16	> 18	3
256QAM	≥ 1						5

C) A-MPR

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

D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

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

2) QPSK with 50% RB allocation

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

3) QPSK with 100% RB allocation

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

4) Higher order modulations

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

E) Other channel bandwidth standalone SAR test requirements

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



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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.

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

The downlink LTE CA test is not required since the maximum output power for downlink LTE CA was not more than 0.25dB higher than the maximum output power for without downlink LTE CA.

SAR test procedure for intra-band contiguous UL LTE CA 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 C3)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



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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, as the existing SAR test system cannot test the multiple different frequency bands simultaneous Transmission SAR at the same time, we suggest that the conservative “max + max” multi-Tx and SAR scaling method can be used to evaluate the inter-band Uplink CA SAR from standalone SAR test results of each LTE component band and the conservative “max + max” multi-Tx method to combine the scaled SAR value from each Inter band Uplink CA component band as the inter-band Uplink CA SAR.

The Inter band Uplink CA as below table:

LTE Band/Antenna		B2		B4		B5	B48
		ANT1	ANT4	ANT1	ANT4	ANT0	ANT3
B4	ANT1						
	ANT4	✓					
B5	ANT0	✓		✓			
B13	ANT0	✓					
B66	ANT1					✓	
	ANT4	✓					✓
B48	ANT3		✓				

7.1.6 NR Band Test Configuration

1. LTE+NR Band operations are possible only with LTE under EN-DC mode and the operations are possible as following table:

Band/Antenna		LTE Band 2		LTE Band 5	LTE Band 13	LTE Band 66		LTE Band 48
		ANT1	ANT4	ANT0	ANT0	ANT1	ANT4	ANT3
n2	ANT1		✓	✓	✓		✓	✓
n5	ANT0	✓					✓	✓
n66	ANT1		✓	✓	✓		✓	✓
n77	ANT3		✓	✓	✓		✓	

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

Band			n2	N5	n48	n66	n77
Modulation	DFT-s-OFDM	PI/2 BPSK	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes
	CP-OFDM	QPSK	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes
	Max Duty Cycle		100%	100%	100%	100%	100%

Band	SCS	Bandwidth												
		5MHz	10MHz	15MHz	20MHz	25MHz	30MHz	40MHz	50MHz	60MHz	70MHz	80MHz	90MHz	100MHz
n2	15 kHz	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
n5	15 kHz	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
n48	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
	30 kHz	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
n66	15 kHz	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
n77	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
	30 kHz	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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

- a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 3GPP 38.101 maximum power reduction for power class 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not 1/2 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 1/2 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 1/2 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 1/2 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 and Table 6.2.2 -2.

Table 6.2.2-1 Maximum power reduction (MPR) for power class 3

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 26 dBm.

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.

Table 6.2.2-2 Maximum power reduction (MPR) for power class 2

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

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.



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

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

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



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8 Test Result

8.1 DUT Antenna Locations (Back View)

The DUT Antenna Locations can be referred to Appendix D

8.2 Measurement of RF Conducted Power

8.2.1 RF Conducted 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.

8.2.2 RF Conducted Power Data

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



8.3 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.
- 3) The device does not support DTM function.
- 4) For WiFi 5G,U-NII-2A and U-NII-2C band does not support hotspot function.
- 5) For WiFi SAR test, as the highest reported SAR is smaller than 1.2 W/kg , and the tune-up of the other 802.11 modes are not higher than SAR measurement mode, therefore the adjusted SAR is $\leq 1.2\text{ W/kg}$ for other 802.11 modes, SAR test for the other 802.11 modes are not required. For Product specific 10gSAR the highest reported SAR is smaller than 3.0 W/kg , SAR test for the other 802.11 modes are also not required.
- 6) According to TCB workshop (Overlapping LTE Bands): SAR in LTE band 4 is covered by LTE band 66. Because the frequency range is similar, the maximum tuning limit is the same, and the channel bandwidth and other operating parameters for the smaller band is fully supported by the larger band.
- 7) * The simultaneous transmission is reduced by XdB (the detailed power reduced can be referred to Conducted Power Appendix E), therefore, those SAR of simultaneous transmission mode are scaled based on standalone SAR results.

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8.3.1 SAR Result of GSM850

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 SET1											
Left cheek	GPRS 3TS	190/836.6	1:2.77	0.321	0.220	0.17	31.48	32.50	1.265	0.406	22.0
Left tilted	GPRS 3TS	190/836.6	1:2.77	0.135	0.098	0.02	31.48	32.50	1.265	0.171	22.0
Right cheek	GPRS 3TS	190/836.6	1:2.77	0.181	0.126	0.02	31.48	32.50	1.265	0.229	22.0
Right tilted	GPRS 3TS	190/836.6	1:2.77	0.162	0.119	0.11	31.48	32.50	1.265	0.205	22.0
Left cheek with Battery2#	GPRS 3TS	190/836.6	1:2.77	0.314	0.198	0.04	31.48	32.50	1.265	0.397	22.0
Body worn Test data(Separate 15mm) SET2 (Fold)											
Front side	GPRS 3TS	190/836.6	1:2.77	0.248	0.176	-0.10	31.48	32.50	1.265	0.314	22.0
Back side	GPRS 3TS	190/836.6	1:2.77	0.792	0.597	-0.03	31.48	32.50	1.265	1.002	22.0
Back side	GPRS 3TS	128/824.2	1:2.77	0.638	0.415	0.11	31.40	32.50	1.288	0.822	22.0
Back side	GPRS 3TS	251/848.8	1:2.77	0.629	0.427	0.04	31.35	32.50	1.303	0.820	22.0
Back side with Battery2#	GPRS 3TS	251/848.8	1:2.77	0.785	0.576	0.05	31.48	32.50	1.265	0.993	22.0
Body worn Test data(Separate 15mm) SET2 (Unfold)											
Front side	GPRS 3TS	190/836.6	1:2.77	0.289	0.198	0.18	31.48	32.50	1.265	0.366	22.0
Back side	GPRS 3TS	190/836.6	1:2.77	0.497	0.302	-0.13	31.48	32.50	1.265	0.629	22.0
Hotspot Test data(Separate 10mm) SET3 (Fold)											
Front side	GPRS 3TS	190/836.6	1:2.77	0.301	0.209	0.13	31.48	32.50	1.265	0.381	22.0
Back side	GPRS 3TS	190/836.6	1:2.77	0.855	0.576	0.09	31.48	32.50	1.265	1.081	22.0
Left side	GPRS 3TS	190/836.6	1:2.77	0.338	0.217	-0.01	31.48	32.50	1.265	0.427	22.0
Right side	GPRS 3TS	190/836.6	1:2.77	0.601	0.399	-0.17	31.48	32.50	1.265	0.760	22.0
Top side	GPRS 3TS	190/836.6	1:2.77	0.035	0.017	0.04	31.48	32.50	1.265	0.044	22.0
Bottom side	GPRS 3TS	190/836.6	1:2.77	0.305	0.170	0.03	31.48	32.50	1.265	0.386	22.0
Back side	GPRS 3TS	128/824.2	1:2.77	0.853	0.570	0.01	31.40	32.50	1.288	1.099	22.0
Back side	GPRS 3TS	251/848.8	1:2.77	0.878	0.661	0.00	31.35	32.50	1.303	1.144	22.0
Hotspot Test data(Separate 10mm) SET3 (Unfold)											
Front side	GPRS 3TS	190/836.6	1:2.77	0.420	0.278	0.03	31.48	32.50	1.265	0.531	22.0
Back side	GPRS 3TS	190/836.6	1:2.77	0.814	0.466	0.04	31.48	32.50	1.265	1.029	22.0
Left side	GPRS 3TS	190/836.6	1:2.77	0.161	0.103	0.06	31.48	32.50	1.265	0.204	22.0
Right side	GPRS 3TS	190/836.6	1:2.77	0.405	0.248	0.00	31.48	32.50	1.265	0.512	22.0
Top side	GPRS 3TS	190/836.6	1:2.77	0.023	0.010	0.17	31.48	32.50	1.265	0.029	22.0
Bottom side	GPRS 3TS	190/836.6	1:2.77	0.339	0.186	0.19	31.48	32.50	1.265	0.429	22.0
Back side	GPRS 3TS	128/824.2	1:2.77	0.864	0.515	0.10	31.40	32.50	1.288	1.113	22.0
Back side	GPRS 3TS	251/848.8	1:2.77	0.911	0.579	0.01	31.35	32.50	1.303	1.187	22.0
Back side with Battery2#	GPRS 3TS	251/848.8	1:2.77	0.889	0.568	-0.05	31.35	32.50	1.303	1.159	22.0
Back side Repeated	GPRS 3TS	251/848.8	1:2.77	0.896	0.558	0.08	31.35	32.50	1.303	1.168	22.0



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Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Back side	251/848.8	0.911	0.896	1.017	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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8.3.2 SAR Result of GSM1900

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 SET1											
Left cheek	GPRS 4TS	661/1880	1:2.075	1.040	0.650	0.13	26.50	27.00	1.122	1.167	22.0
Left tilted	GPRS 4TS	661/1880	1:2.075	0.46	0.300	0.09	26.50	27.00	1.122	0.516	22.0
Right cheek	GPRS 4TS	661/1880	1:2.075	1.110	0.764	0.08	26.50	27.00	1.122	1.245	22.0
Right cheek Repeated	GPRS 4TS	661/1880	1:2.075	1.020	0.732	-0.18	26.50	27.00	1.122	1.144	22.0
Right tilted	GPRS 4TS	661/1880	1:2.075	0.478	0.304	-0.06	26.50	27.00	1.122	0.536	22.0
Left cheek	GPRS 4TS	512/1850.2	1:2.075	0.957	0.598	0.05	26.48	27.00	1.127	1.079	22.0
Left cheek	GPRS 4TS	810/1909.8	1:2.075	1.010	0.611	0.13	26.47	27.00	1.130	1.141	22.0
Right cheek	GPRS 4TS	512/1850.2	1:2.075	0.991	0.601	-0.05	26.48	27.00	1.127	1.117	22.0
Right cheek	GPRS 4TS	810/1909.8	1:2.075	1.030	0.604	0.14	26.47	27.00	1.130	1.164	22.0
Right cheek with Battery2#	GPRS 4TS	661/1880	1:2.075	0.997	0.684	0.04	26.50	27.00	1.122	1.119	22.0
Body worn Test data(Separate 15mm) SET2 (Fold)											
Front side	GPRS 4TS	661/1880	1:2.075	0.127	0.080	-0.01	26.50	27.00	1.122	0.142	22.0
Back side	GPRS 4TS	661/1880	1:2.075	0.308	0.184	-0.09	26.50	27.00	1.122	0.346	22.0
Body worn Test data(Separate 15mm) SET2 (Unfold)											
Front side	GPRS 4TS	661/1880	1:2.075	0.355	0.218	0.00	26.50	27.00	1.122	0.398	22.0
Back side	GPRS 4TS	661/1880	1:2.075	0.629	0.406	-0.04	26.50	27.00	1.122	0.706	22.0
Back side with Battery2#	GPRS 4TS	661/1880	1:2.075	0.598	0.378	0.06	26.50	27.00	1.122	0.671	22.0
Hotspot Test data(Separate 10mm) SET3 (Fold)											
Front side	GPRS 4TS	661/1880	1:2.075	0.188	0.110	-0.11	26.50	27.00	1.122	0.211	22.0
Back side	GPRS 4TS	661/1880	1:2.075	0.568	0.330	-0.03	26.50	27.00	1.122	0.637	22.0
Left side	GPRS 4TS	661/1880	1:2.075	0.103	0.065	-0.14	26.50	27.00	1.122	0.116	22.0
Right side	GPRS 4TS	661/1880	1:2.075	0.118	0.069	-0.02	26.50	27.00	1.122	0.132	22.0
Top side	GPRS 4TS	661/1880	1:2.075	0.291	0.164	0.05	26.50	27.00	1.122	0.327	22.0
Bottom side	GPRS 4TS	661/1880	1:2.075	0.035	0.020	0.08	26.50	27.00	1.122	0.039	22.0
Hotspot Test data(Separate 10mm) SET3 (Unfold)											
Front side	GPRS 4TS	661/1880	1:2.075	0.404	0.243	0.10	26.50	27.00	1.122	0.453	22.0
Back side	GPRS 4TS	661/1880	1:2.075	0.855	0.497	-0.03	26.50	27.00	1.122	0.959	22.0
Left side	GPRS 4TS	661/1880	1:2.075	0.180	0.107	0.19	26.50	27.00	1.122	0.202	22.0
Right side	GPRS 4TS	661/1880	1:2.075	0.298	0.175	0.09	26.50	27.00	1.122	0.334	22.0
Top side	GPRS 4TS	661/1880	1:2.075	0.069	0.041	0.08	26.50	27.00	1.122	0.077	22.0
Bottom side	GPRS 4TS	661/1880	1:2.075	0.078	0.035	0.11	26.50	27.00	1.122	0.088	22.0
Back side	GPRS 4TS	512/1850.2	1:2.075	0.987	0.687	-0.03	26.48	27.00	1.127	1.113	22.0
Back side Repeated	GPRS 4TS	512/1850.2	1:2.075	0.963	0.634	0.04	26.48	27.00	1.127	1.085	22.0
Back side with Battery2#	GPRS 4TS	512/1850.2	1:2.075	0.931	0.645	-0.07	26.48	27.00	1.127	1.049	22.0
Back side	GPRS 4TS	810/1909.8	1:2.075	0.880	0.497	0.04	26.47	27.00	1.130	0.994	22.0



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Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right cheek	661/1880	1.110	1.020	1.088	N/A	N/A
Back side	512/1850.2	0.987	0.963	1.025	N/A	N/A

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

2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated 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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8.3.3 SAR Result of WCDMA Band II

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 SET1											
Left cheek	RMC	9400/1880	1:1	0.452	0.283	-0.13	20.45	21.00	1.135	0.513	22.0
Left tilted	RMC	9400/1880	1:1	0.210	0.133	-0.12	20.45	21.00	1.135	0.238	22.0
Right cheek	RMC	9400/1880	1:1	0.507	0.347	0.09	20.45	21.00	1.135	0.575	22.0
Right tilted	RMC	9400/1880	1:1	0.205	0.133	0.10	20.45	21.00	1.135	0.233	22.0
Right cheek with Battery2#	RMC	9400/1880	1:1	0.475	0.316	0.04	20.45	21.00	1.135	0.539	22.0
Body worn Test data(Separate 15mm) SET2 (Fold)											
Front side	RMC	9400/1880	1:1	0.094	0.059	0.13	21.37	22.00	1.156	0.109	22.0
Back side	RMC	9400/1880	1:1	0.241	0.141	0.02	21.37	22.00	1.156	0.279	22.0
Body worn Test data(Separate 15mm) SET2 (Unfold)											
Front side	RMC	9400/1880	1:1	0.196	0.120	0.10	21.37	22.00	1.156	0.227	22.0
Back side	RMC	9400/1880	1:1	0.394	0.255	-0.05	21.37	22.00	1.156	0.456	22.0
Back side with Battery2#	RMC	9400/1880	1:1	0.366	0.198	0.07	21.37	22.00	1.156	0.423	22.0
Hotspot Test data(Separate 10mm) SET3 (Fold)											
Front side	RMC	9400/1880	1:1	0.229	0.133	-0.12	23.36	24.00	1.159	0.265	22.0
Back side	RMC	9400/1880	1:1	0.617	0.357	-0.18	23.36	24.00	1.159	0.715	22.0
Left side	RMC	9400/1880	1:1	0.150	0.092	0.00	23.36	24.00	1.159	0.174	22.0
Right side	RMC	9400/1880	1:1	0.151	0.087	0.10	23.36	24.00	1.159	0.175	22.0
Top side	RMC	9400/1880	1:1	0.330	0.183	-0.15	23.36	24.00	1.159	0.382	22.0
Bottom side	RMC	9400/1880	1:1	0.058	0.024	0.11	23.36	24.00	1.159	0.067	22.0
Hotspot Test data(Separate 10mm) SET3 (Unfold)											
Front side	RMC	9400/1880	1:1	0.338	0.204	0.19	23.36	24.00	1.159	0.392	22.0
Back side	RMC	9400/1880	1:1	0.784	0.446	0.17	23.36	24.00	1.159	0.908	22.0
Left side	RMC	9400/1880	1:1	0.191	0.112	0.07	23.36	24.00	1.159	0.221	22.0
Right side	RMC	9400/1880	1:1	0.253	0.147	-0.06	23.36	24.00	1.159	0.293	22.0
Top side	RMC	9400/1880	1:1	0.043	0.027	-0.07	23.36	24.00	1.159	0.050	22.0
Bottom side	RMC	9400/1880	1:1	0.090	0.058	0.12	23.36	24.00	1.159	0.104	22.0
Back side	RMC	9262/1852.4	1:1	0.832	0.533	-0.03	23.32	24.00	1.169	0.973	22.0
Back side Repeated	RMC	9262/1852.4	1:1	0.810	0.517	-0.02	23.32	24.00	1.169	0.947	22.0
Back side with Battery2#	RMC	9262/1852.4	1:1	0.783	0.514	0.04	23.32	24.00	1.169	0.916	22.0
Back side	RMC	9538/1907.6	1:1	0.734	0.415	-0.11	23.12	24.00	1.225	0.899	22.0

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Back side	9262/1852.4	0.832	0.810	1.027	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).



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| 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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8.3.4 SAR Result of WCDMA Band V

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 SET1											
Left cheek	RMC	4182/836.4	1:1	0.346	0.243	0.08	23.55	25.00	1.396	0.483	22.0
Left tilted	RMC	4182/836.4	1:1	0.245	0.181	0.19	23.55	25.00	1.396	0.342	22.0
Right cheek	RMC	4182/836.4	1:1	0.359	0.249	0.16	23.55	25.00	1.396	0.501	22.0
Right cheek with Battery2#	RMC	4182/836.4	1:1	0.334	0.187	-0.04	23.55	25.00	1.396	0.466	22.0
Right tilted	RMC	4182/836.4	1:1	0.299	0.219	0.01	23.55	25.00	1.396	0.418	22.0
Body worn Test data(Separate 15mm) SET2 (Fold)											
Front side	RMC	4182/836.4	1:1	0.248	0.177	0.08	23.55	25.00	1.396	0.346	22.0
Back side	RMC	4182/836.4	1:1	0.640	0.487	-0.09	23.55	25.00	1.396	0.894	22.0
Back side	RMC	4132/826.4	1:1	0.567	0.469	0.01	23.52	25.00	1.406	0.797	22.0
Back side	RMC	4233/846.6	1:1	0.534	0.412	-0.01	23.51	25.00	1.409	0.753	22.0
Back side with Battery2#	RMC	4182/836.4	1:1	0.598	0.432	0.03	23.55	25.00	1.396	0.835	22.0
Body worn Test data(Separate 15mm) SET2 (Unfold)											
Front side	RMC	4182/836.4	1:1	0.225	0.159	0.05	23.55	25.00	1.396	0.314	22.0
Back side	RMC	4182/836.4	1:1	0.426	0.250	-0.14	23.55	25.00	1.396	0.595	22.0
Hotspot Test data(Separate 10mm) SET3 (Fold)											
Front side	RMC	4182/836.4	1:1	0.248	0.174	0.01	23.55	25.00	1.396	0.346	22.0
Back side	RMC	4182/836.4	1:1	0.684	0.461	-0.17	23.55	25.00	1.396	0.955	22.0
Left side	RMC	4182/836.4	1:1	0.289	0.187	-0.15	23.55	25.00	1.396	0.404	22.0
Right side	RMC	4182/836.4	1:1	0.435	0.287	-0.08	23.55	25.00	1.396	0.607	22.0
Top side	RMC	4182/836.4	1:1	0.041	0.027	-0.14	23.55	25.00	1.396	0.057	22.0
Bottom side	RMC	4182/836.4	1:1	0.201	0.109	0.15	23.55	25.00	1.396	0.281	22.0
Back side	RMC	4132/826.4	1:1	0.691	0.510	0.00	23.52	25.00	1.406	0.972	22.0
Back side with Battery2#	RMC	4132/826.4	1:1	0.587	0.468	0.09	23.52	25.00	1.406	0.825	22.0
Back side	RMC	4233/846.6	1:1	0.579	0.387	0.04	23.51	25.00	1.409	0.816	22.0
Hotspot Test data(Separate 10mm) SET3 (Unfold)											
Front side	RMC	4182/836.4	1:1	0.292	0.194	-0.12	23.55	25.00	1.396	0.408	22.0
Back side	RMC	4182/836.4	1:1	0.608	0.342	0.00	23.55	25.00	1.396	0.849	22.0
Left side	RMC	4182/836.4	1:1	0.108	0.067	-0.01	23.55	25.00	1.396	0.151	22.0
Right side	RMC	4182/836.4	1:1	0.280	0.188	-0.10	23.55	25.00	1.396	0.391	22.0
Top side	RMC	4182/836.4	1:1	0.031	0.013	-0.13	23.55	25.00	1.396	0.043	22.0
Bottom side	RMC	4182/836.4	1:1	0.275	0.153	-0.09	23.55	25.00	1.396	0.384	22.0
Back side	RMC	4132/826.4	1:1	0.612	0.349	0.19	23.52	25.00	1.406	0.861	22.0
Back side	RMC	4233/846.6	1:1	0.589	0.331	-0.17	23.51	25.00	1.409	0.830	22.0

8.3.5 SAR Result of LTE Band 2

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) SET1												
Left cheek	20	QPSK 1_0	18700/1860	1:1	0.545	0.343	-0.14	20.58	21.50	1.236	0.674	22.0
Left tilted	20	QPSK 1_0	18700/1860	1:1	0.240	0.153	0.16	20.58	21.50	1.236	0.297	22.0
Right cheek	20	QPSK 1_0	18700/1860	1:1	0.675	0.416	0.02	20.58	21.50	1.236	0.834	22.0
Right tilted	20	QPSK 1_0	18700/1860	1:1	0.238	0.153	0.18	20.58	21.50	1.236	0.294	22.0
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.654	0.408	0.12	20.51	21.50	1.256	0.821	22.0
Right cheek	20	QPSK 1_0	19100/1900	1:1	0.638	0.389	-0.14	20.36	21.50	1.300	0.830	22.0
Right cheek with Battery2#	20	QPSK 1_0	19100/1900	1:1	0.653	0.389	0.08	20.58	21.50	1.236	0.807	22.0
Head Test Data (50%RB) SET1												
Left cheek	20	QPSK 50_0	18700/1860	1:1	0.490	0.308	0.11	20.58	21.50	1.236	0.606	22.0
Left tilted	20	QPSK 50_0	18700/1860	1:1	0.231	0.147	0.18	20.58	21.50	1.236	0.286	22.0
Right cheek	20	QPSK 50_0	18700/1860	1:1	0.575	0.352	0.11	20.58	21.50	1.236	0.711	22.0
Right tilted	20	QPSK 50_0	18700/1860	1:1	0.224	0.145	0.02	20.58	21.50	1.236	0.277	22.0
Head Test Data (100%RB) SET1												
Right cheek	20	QPSK 100_0	18700/1860	1:1	0.582	0.361	0.14	20.50	21.50	1.259	0.733	22
Body worn Test data (Separate 15mm 1RB) SET2 (Fold)												
Front side	20	QPSK 1_0	19100/1900	1:1	0.101	0.062	0.14	21.41	22.00	1.146	0.116	22.0
Back side	20	QPSK 1_0	19100/1900	1:1	0.227	0.131	0.16	21.41	22.00	1.146	0.260	22.0
Body worn Test data (Separate 15mm 50%RB) SET2 (Fold)												
Front side	20	QPSK 50_50	18900/1880	1:1	0.104	0.064	-0.17	21.54	22.00	1.112	0.116	22.0
Back side	20	QPSK 50_50	18900/1880	1:1	0.245	0.143	0.15	21.54	22.00	1.112	0.272	22.0
Body worn Test data (Separate 15mm 1RB) SET2 (Unfold)												
Front side	20	QPSK 1_0	19100/1900	1:1	0.264	0.157	-0.18	21.41	22.00	1.146	0.302	22.0
Back side	20	QPSK 1_0	19100/1900	1:1	0.303	0.181	0.00	21.41	22.00	1.146	0.347	22.0
Body worn Test data (Separate 15mm 50%RB) SET2 (Unfold)												
Front side	20	QPSK 50_50	18900/1880	1:1	0.267	0.153	0.07	21.54	22.00	1.112	0.297	22.0
Back side	20	QPSK 50_50	18900/1880	1:1	0.317	0.205	0.09	21.54	22.00	1.112	0.352	22.0
Back side with Battery2#	20	QPSK 50_50	18900/1880	1:1	0.287	0.186	0.04	21.54	22.00	1.112	0.319	22.0
Hotspot Test data (Separate 10mm 1RB) SET3 (Fold)												
Front side	20	QPSK 1_50	18900/1880	1:1	0.199	0.117	-0.05	23.86	24.50	1.159	0.231	22.0
Back side	20	QPSK 1_50	18900/1880	1:1	0.571	0.331	0.10	23.86	24.50	1.159	0.662	22.0
Left side	20	QPSK 1_50	18900/1880	1:1	0.125	0.077	0.08	23.86	24.50	1.159	0.145	22.0
Right side	20	QPSK 1_50	18900/1880	1:1	0.134	0.077	-0.11	23.86	24.50	1.159	0.155	22.0
Top side	20	QPSK 1_50	18900/1880	1:1	0.321	0.176	0.10	23.86	24.50	1.159	0.372	22.0
Bottom side	20	QPSK 1_50	18900/1880	1:1	0.046	0.029	0.16	23.86	24.50	1.159	0.053	22.0
Hotspot Test data (Separate 10mm 50%RB) SET3 (Fold)												
Front side	20	QPSK 50_25	18900/1880	1:1	0.214	0.125	-0.12	23.57	24.50	1.239	0.265	22.0
Back side	20	QPSK 50_25	18900/1880	1:1	0.598	0.349	0.13	23.57	24.50	1.239	0.741	22.0
Left side	20	QPSK 50_25	18900/1880	1:1	0.151	0.093	-0.02	23.57	24.50	1.239	0.187	22.0



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Right side	20	QPSK 50_25	18900/1880	1:1	0.138	0.080	0.16	23.57	24.50	1.239	0.171	22.0
Top side	20	QPSK 50_25	18900/1880	1:1	0.289	0.163	-0.16	23.57	24.50	1.239	0.358	22.0
Bottom side	20	QPSK 50_25	18900/1880	1:1	0.046	0.027	-0.18	23.57	24.50	1.239	0.057	22.0
Hotspot Test data (Separate 10mm 1RB) SET3 (Unfold)												
Front side	20	QPSK 1_50	18900/1880	1:1	0.368	0.223	-0.17	23.86	24.50	1.159	0.426	22.0
Back side	20	QPSK 1_50	18900/1880	1:1	0.770	0.437	-0.18	23.86	24.50	1.159	0.892	22.0
Left side	20	QPSK 1_50	18900/1880	1:1	0.182	0.106	0.09	23.86	24.50	1.159	0.211	22.0
Right side	20	QPSK 1_50	18900/1880	1:1	0.255	0.148	-0.14	23.86	24.50	1.159	0.295	22.0
Top side	20	QPSK 1_50	18900/1880	1:1	0.044	0.028	0.07	23.86	24.50	1.159	0.051	22.0
Bottom side	20	QPSK 1_50	18900/1880	1:1	0.087	0.054	-0.19	23.86	24.50	1.159	0.101	22.0
Back side	20	QPSK 1_50	18700/1860	1:1	0.746	0.425	0.01	23.84	24.50	1.164	0.868	22.0
Back side	20	QPSK 1_50	19100/1900	1:1	0.706	0.404	0.11	23.61	24.50	1.227	0.867	22.0
Hotspot Test data (Separate 10mm 50%RB) SET3 (Unfold)												
Front side	20	QPSK 50_25	18900/1880	1:1	0.357	0.209	-0.09	23.57	24.50	1.239	0.442	22.0
Back side	20	QPSK 50_25	18900/1880	1:1	0.779	0.492	-0.05	23.57	24.50	1.239	0.965	22.0
Left side	20	QPSK 50_25	18900/1880	1:1	0.184	0.107	-0.15	23.57	24.50	1.239	0.228	22.0
Right side	20	QPSK 50_25	18900/1880	1:1	0.241	0.139	0.07	23.57	24.50	1.239	0.299	22.0
Top side	20	QPSK 50_25	18900/1880	1:1	0.040	0.026	0.17	23.57	24.50	1.239	0.050	22.0
Bottom side	20	QPSK 50_25	18900/1880	1:1	0.084	0.053	-0.07	23.57	24.50	1.239	0.104	22.0
Back side	20	QPSK 50_25	18700/1860	1:1	0.758	0.431	-0.12	23.54	24.50	1.247	0.946	22.0
Back side	20	QPSK 50_25	19100/1900	1:1	0.722	0.411	-0.06	23.32	24.50	1.312	0.947	22.0
Back side with Battery2#	20	QPSK 50_25	18900/1880	1:1	0.736	0.465	-0.01	23.57	24.50	1.239	0.912	22.0
Hotspot Test data (Separate 10mm 100%RB) SET3 (Unfold)												
Back side	20	QPSK 100_0	18900/1880	1:1	0.728	0.415	0.19	23.47	24.50	1.268	0.923	22.0
Hotspot Evaluate data (Separate 10mm 1RB) SET3 (Fold) with CA												
Front side	20	QPSK 1_50	18900/1880	1:1	0.199	0.117	-0.05	23.86	20.50	0.461	0.092	22.0
Back side	20	QPSK 1_50	18900/1880	1:1	0.571	0.331	0.10	23.86	20.50	0.461	0.263	22.0
Left side	20	QPSK 1_50	18900/1880	1:1	0.125	0.077	0.08	23.86	20.50	0.461	0.058	22.0
Right side	20	QPSK 1_50	18900/1880	1:1	0.134	0.077	-0.11	23.86	20.50	0.461	0.062	22.0
Top side	20	QPSK 1_50	18900/1880	1:1	0.321	0.176	0.10	23.86	20.50	0.461	0.148	22.0
Bottom side	20	QPSK 1_50	18900/1880	1:1	0.046	0.029	0.16	23.86	20.50	0.461	0.021	22.0
Hotspot Evaluatedata (Separate 10mm 50%RB) SET3 (Fold) with CA												
Front side	20	QPSK 50_25	18900/1880	1:1	0.214	0.125	-0.12	23.57	20.50	0.493	0.106	22.0
Back side	20	QPSK 50_25	18900/1880	1:1	0.598	0.349	0.13	23.57	20.50	0.493	0.295	22.0
Left side	20	QPSK 50_25	18900/1880	1:1	0.151	0.093	-0.02	23.57	20.50	0.493	0.074	22.0
Right side	20	QPSK 50_25	18900/1880	1:1	0.138	0.080	0.16	23.57	20.50	0.493	0.068	22.0
Top side	20	QPSK 50_25	18900/1880	1:1	0.289	0.163	-0.16	23.57	20.50	0.493	0.143	22.0
Bottom side	20	QPSK 50_25	18900/1880	1:1	0.046	0.027	-0.18	23.57	20.50	0.493	0.023	22.0
Hotspot Evaluate data (Separate 10mm 1RB) SET3 (Unfold) with CA												
Front side	20	QPSK 1_50	18900/1880	1:1	0.368	0.223	-0.17	23.86	20.50	0.461	0.170	22.0
Back side	20	QPSK 1_50	18900/1880	1:1	0.770	0.437	-0.18	23.86	20.50	0.461	0.355	22.0
Left side	20	QPSK 1_50	18900/1880	1:1	0.182	0.106	0.09	23.86	20.50	0.461	0.084	22.0
Right side	20	QPSK 1_50	18900/1880	1:1	0.255	0.148	-0.14	23.86	20.50	0.461	0.118	22.0
Top side	20	QPSK 1_50	18900/1880	1:1	0.044	0.028	0.07	23.86	20.50	0.461	0.020	22.0



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Bottom side	20	QPSK 1_50	18900/1880	1:1	0.087	0.054	-0.19	23.86	20.50	0.461	0.040	22.0
Back side	20	QPSK 1_50	18700/1860	1:1	0.746	0.425	0.01	23.84	20.50	0.463	0.346	22.0
Back side	20	QPSK 1_50	19100/1900	1:1	0.706	0.404	0.11	23.61	20.50	0.489	0.345	22.0
Hotspot Evaluate data (Separate 10mm 50%RB) SET3 (Unfold) with CA												
Front side	20	QPSK 50_25	18900/1880	1:1	0.357	0.209	-0.09	23.57	20.50	0.493	0.176	22.0
Back side	20	QPSK 50_25	18900/1880	1:1	0.779	0.492	-0.05	23.57	20.50	0.493	0.384	22.0
Left side	20	QPSK 50_25	18900/1880	1:1	0.184	0.107	-0.15	23.57	20.50	0.493	0.091	22.0
Right side	20	QPSK 50_25	18900/1880	1:1	0.241	0.139	0.07	23.57	20.50	0.493	0.119	22.0
Top side	20	QPSK 50_25	18900/1880	1:1	0.040	0.026	0.17	23.57	20.50	0.493	0.020	22.0
Bottom side	20	QPSK 50_25	18900/1880	1:1	0.084	0.053	-0.07	23.57	20.50	0.493	0.041	22.0
Back side	20	QPSK 50_25	18700/1860	1:1	0.758	0.431	-0.12	23.54	20.50	0.497	0.376	22.0
Back side	20	QPSK 50_25	19100/1900	1:1	0.722	0.411	-0.06	23.32	20.50	0.522	0.377	22.0
Hotspot Evaluate data (Separate 10mm 100%RB) SET3 (Unfold) with CA												
Back side	20	QPSK 100_0	18900/1880	1:1	0.728	0.415	0.19	23.47	20.50	0.505	0.367	22.0
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) SET1												
Left cheek	20	QPSK 1_99	19100/1900	1:1	0.041	0.019	-0.10	20.24	20.50	1.062	0.044	22.0
Left tilted	20	QPSK 1_99	19100/1900	1:1	0.018	0.011	-0.01	20.24	20.50	1.062	0.019	22.0
Right cheek	20	QPSK 1_99	19100/1900	1:1	0.090	0.056	0.05	20.24	20.50	1.062	0.096	22.0
Right tilted	20	QPSK 1_99	19100/1900	1:1	0.019	0.012	0.07	20.24	20.50	1.062	0.020	22.0
Head Test Data (50%RB) SET1												
Left cheek	20	QPSK 50_50	19100/1900	1:1	0.034	0.013	0.19	20.24	20.50	1.062	0.036	22.0
Left tilted	20	QPSK 50_50	19100/1900	1:1	0.012	0.007	-0.19	20.24	20.50	1.062	0.013	22.0
Right cheek	20	QPSK 50_50	19100/1900	1:1	0.079	0.050	0.08	20.24	20.50	1.062	0.084	22.0
Right tilted	20	QPSK 50_50	19100/1900	1:1	0.014	0.009	0.08	20.24	20.50	1.062	0.015	22.0
Body worn Test data (Separate 15mm 1RB) SET2 (Fold)												
Front side	20	QPSK 1_99	19100/1900	1:1	0.029	0.016	0.09	21.28	21.50	1.052	0.031	22.0
Back side	20	QPSK 1_99	19100/1900	1:1	0.214	0.133	-0.13	21.28	21.50	1.052	0.225	22.0
Body worn Test data (Separate 15mm 50%RB) SET2 (Fold)												
Front side	20	QPSK 50_50	19100/1900	1:1	0.032	0.017	-0.06	21.20	21.50	1.072	0.034	22.0
Back side	20	QPSK 50_50	19100/1900	1:1	0.226	0.143	0.18	21.20	21.50	1.072	0.242	22.0
Body worn Test data (Separate 15mm 1RB) SET2 (Unfold)												
Front side	20	QPSK 1_99	19100/1900	1:1	0.070	0.040	-0.03	21.28	21.50	1.052	0.074	22.0
Back side	20	QPSK 1_99	19100/1900	1:1	0.269	0.163	0.11	21.28	21.50	1.052	0.283	22.0
Body worn Test data (Separate 15mm 50%RB) SET2 (Unfold)												
Front side	20	QPSK 50_50	19100/1900	1:1	0.065	0.038	0.12	21.20	21.50	1.072	0.070	22.0
Back side	20	QPSK 50_50	19100/1900	1:1	0.246	0.152	-0.14	21.20	21.50	1.072	0.264	22.0
Hotspot Test data (Separate 10mm 1RB) SET3 (Fold)												
Front side	20	QPSK 1_99	19100/1900	1:1	0.067	0.027	0.01	24.24	24.50	1.062	0.071	22.0
Back side	20	QPSK 1_99	19100/1900	1:1	0.576	0.378	0.01	24.24	24.50	1.062	0.612	22.0
Left side	20	QPSK 1_99	19100/1900	1:1	0.223	0.125	-0.13	24.24	24.50	1.062	0.237	22.0
Right side	20	QPSK 1_99	19100/1900	1:1	0.562	0.284	-0.17	24.24	24.50	1.062	0.597	22.0



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Top side	20	QPSK 1_99	19100/1900	1:1	0.063	0.040	-0.01	24.24	24.50	1.062	0.067	22.0
Bottom side	20	QPSK 1_99	19100/1900	1:1	0.077	0.047	0.08	24.24	24.50	1.062	0.082	22.0
Hotspot Test data (Separate 10mm 50%RB) SET3 (Fold)												
Front side	20	QPSK 50_50	19100/1900	1:1	0.046	0.024	-0.19	23.21	23.50	1.069	0.049	22.0
Back side	20	QPSK 50_50	19100/1900	1:1	0.521	0.327	0.06	23.21	23.50	1.069	0.557	22.0
Left side	20	QPSK 50_50	19100/1900	1:1	0.214	0.122	-0.01	23.21	23.50	1.069	0.229	22.0
Right side	20	QPSK 50_50	19100/1900	1:1	0.513	0.258	-0.05	23.21	23.50	1.069	0.548	22.0
Top side	20	QPSK 50_50	19100/1900	1:1	0.066	0.042	0.04	23.21	23.50	1.069	0.071	22.0
Bottom side	20	QPSK 50_50	19100/1900	1:1	0.069	0.045	-0.11	23.21	23.50	1.069	0.074	22.0
Hotspot Test data (Separate 10mm 1RB) SET3 (Unfold)												
Front side	20	QPSK 1_99	19100/1900	1:1	0.200	0.110	-0.19	24.24	24.50	1.062	0.212	22.0
Back side	20	QPSK 1_99	19100/1900	1:1	0.589	0.431	0.02	24.24	24.50	1.062	0.625	22.0
Left side	20	QPSK 1_99	19100/1900	1:1	0.381	0.210	0.14	24.24	24.50	1.062	0.405	22.0
Right side	20	QPSK 1_99	19100/1900	1:1	0.610	0.368	0.12	24.24	24.50	1.062	0.648	22.0
Top side	20	QPSK 1_99	19100/1900	1:1	0.049	0.030	-0.13	24.24	24.50	1.062	0.052	22.0
Bottom side	20	QPSK 1_99	19100/1900	1:1	0.106	0.063	0.03	24.24	24.50	1.062	0.113	22.0
Hotspot Test data (Separate 10mm 50%RB) SET3 (Unfold)												
Front side	20	QPSK 50_50	19100/1900	1:1	0.189	0.105	-0.08	23.21	23.50	1.069	0.202	22.0
Back side	20	QPSK 50_50	19100/1900	1:1	0.571	0.373	-0.19	23.21	23.50	1.069	0.610	22.0
Left side	20	QPSK 50_50	19100/1900	1:1	0.284	0.161	0.15	23.21	23.50	1.069	0.304	22.0
Right side	20	QPSK 50_50	19100/1900	1:1	0.611	0.359	0.10	23.21	23.50	1.069	0.653	22.0
Top side	20	QPSK 50_50	19100/1900	1:1	0.046	0.028	-0.17	23.21	23.50	1.069	0.049	22.0
Bottom side	20	QPSK 50_50	19100/1900	1:1	0.096	0.060	0.14	23.21	23.50	1.069	0.103	22.0



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8.3.6 SAR Result of LTE Band 5

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) SET 1												
Left cheek	10	QPSK 1_0	20525/836.5	1:1	0.320	0.222	-0.13	24.35	25.00	1.161	0.372	22.1
Left tilted	10	QPSK 1_0	20525/836.5	1:1	0.228	0.168	-0.02	24.35	25.00	1.161	0.265	22.1
Right cheek	10	QPSK 1_0	20525/836.5	1:1	0.371	0.260	0.01	24.35	25.00	1.161	0.431	22.1
Right cheek with Battery2#	10	QPSK 1_0	20525/836.5	1:1	0.346	0.231	-0.08	24.35	25.00	1.161	0.402	22.1
Right tilted	10	QPSK 1_0	20525/836.5	1:1	0.294	0.213	-0.04	24.35	25.00	1.161	0.341	22.1
Head Test Data (50%RB) SET												
Left cheek	10	QPSK 25_0	20525/836.5	1:1	0.250	0.174	-0.07	23.57	24.00	1.104	0.276	22.1
Left tilted	10	QPSK 25_0	20525/836.5	1:1	0.188	0.138	-0.09	23.57	24.00	1.104	0.208	22.1
Right cheek	10	QPSK 25_0	20525/836.5	1:1	0.272	0.188	-0.03	23.57	24.00	1.104	0.300	22.1
Right tilted	10	QPSK 25_0	20525/836.5	1:1	0.226	0.166	0.02	23.57	24.00	1.104	0.250	22.1
Body worn Test data (Separate 15mm 1RB) SET2 (Fold)												
Front side	10	QPSK 1_0	20525/836.5	1:1	0.267	0.188	0.02	24.35	25.00	1.161	0.310	22.1
Back side	10	QPSK 1_0	20525/836.5	1:1	0.633	0.437	0.00	24.35	25.00	1.161	0.735	22.1
Back side with Battery2#	10	QPSK 1_0	20525/836.5	1:1	0.598	0.415	0.07	24.35	25.00	1.161	0.695	22.1
Body worn Test data (Separate 15mm 50%RB) SET2 (Fold)												
Front side	10	QPSK 25_0	20525/836.5	1:1	0.195	0.139	-0.18	23.57	24.00	1.104	0.215	22.1
Back side	10	QPSK 25_0	20525/836.5	1:1	0.521	0.353	0.12	23.57	24.00	1.104	0.575	22.1
Body worn Test data (Separate 15mm 1RB) SET2 (Unfold)												
Front side	10	QPSK 1_0	20525/836.5	1:1	0.245	0.168	-0.04	24.35	25.00	1.161	0.285	22.1
Back side	10	QPSK 1_0	20525/836.5	1:1	0.448	0.260	0.01	24.35	25.00	1.161	0.520	22.1
Body worn Test data (Separate 15mm 50%RB) SET 2 (Unfold)												
Front side	10	QPSK 25_0	20525/836.5	1:1	0.255	0.170	-0.18	23.57	24.00	1.104	0.282	22.1
Back side	10	QPSK 25_0	20525/836.5	1:1	0.323	0.190	-0.11	23.57	24.00	1.104	0.357	22.1
Body worn Evaluate data (Separate 15mm 1RB) SET2 (Fold) with ENDC												
Front side	10	QPSK 1_0	20525/836.5	1:1	0.267	0.188	0.02	24.35	22.00	0.582	0.155	22.1
Back side	10	QPSK 1_0	20525/836.5	1:1	0.633	0.437	0.00	24.35	22.00	0.582	0.368	22.1
Body worn Evaluate data (Separate 15mm 50%RB) SET 2 (Fold) with ENDC												
Front side	10	QPSK 25_0	20525/836.5	1:1	0.195	0.139	-0.18	23.57	22.00	0.697	0.136	22.1
Back side	10	QPSK 25_0	20525/836.5	1:1	0.521	0.353	0.12	23.57	22.00	0.697	0.363	22.1
Body worn Evaluate data (Separate 15mm 1RB) SET 2 (Unfold) with ENDC												
Front side	10	QPSK 1_0	20525/836.5	1:1	0.245	0.168	-0.04	24.35	22.00	0.582	0.143	22.1
Back side	10	QPSK 1_0	20525/836.5	1:1	0.448	0.260	0.01	24.35	22.00	0.582	0.261	22.1
Body worn Evaluate data (Separate 15mm 50%RB) SET2 (Unfold) with ENDC												
Front side	10	QPSK 25_0	20525/836.5	1:1	0.255	0.170	-0.18	23.57	22.00	0.697	0.178	22.1
Back side	10	QPSK 25_0	20525/836.5	1:1	0.323	0.190	-0.11	23.57	22.00	0.697	0.225	22.1
Hotspot Test data (Separate 10mm 1RB) SET3 (Fold)												
Front side	10	QPSK 1_0	20525/836.5	1:1	0.308	0.208	0.15	24.35	25.00	1.161	0.358	22.1
Back side	10	QPSK 1_0	20525/836.5	1:1	0.778	0.585	-0.08	24.35	25.00	1.161	0.904	22.1
Left side	10	QPSK 1_0	20525/836.5	1:1	0.339	0.220	-0.01	24.35	25.00	1.161	0.394	22.1
Right side	10	QPSK 1_0	20525/836.5	1:1	0.492	0.324	0.00	24.35	25.00	1.161	0.571	22.1



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Top side	10	QPSK 1_0	20525/836.5	1:1	0.033	0.012	-0.02	24.35	25.00	1.161	0.038	22.1
Bottom side	10	QPSK 1_0	20525/836.5	1:1	0.210	0.110	-0.07	24.35	25.00	1.161	0.244	22.1
Back side with Battery2#	10	QPSK 1_0	20525/836.5	1:1	0.731	0.547	0.05	24.35	25.00	1.161	0.849	22.1
Hotspot Test data (Separate 10mm 50%RB) SET3 (Fold)												
Front side	10	QPSK 25_0	20525/836.5	1:1	0.218	0.153	0.12	23.57	24.00	1.104	0.241	22.1
Back side	10	QPSK 25_0	20525/836.5	1:1	0.590	0.396	0.15	23.57	24.00	1.104	0.651	22.1
Left side	10	QPSK 25_0	20525/836.5	1:1	0.257	0.167	0.01	23.57	24.00	1.104	0.284	22.1
Right side	10	QPSK 25_0	20525/836.5	1:1	0.381	0.250	-0.12	23.57	24.00	1.104	0.421	22.1
Top side	10	QPSK 25_0	20525/836.5	1:1	0.027	0.009	0.13	23.57	24.00	1.104	0.030	22.1
Bottom side	10	QPSK 25_0	20525/836.5	1:1	0.150	0.084	0.06	23.57	24.00	1.104	0.166	22.1
Hotspot Test data (Separate 10mm 100%RB) SET3 (Fold)												
Back side	10	QPSK 50_0	20525/836.5	1:1	0.557	0.375	-0.02	23.55	24.00	1.109	0.618	22.1
Hotspot Test data (Separate 10mm 1RB) SET3 (Unfold)												
Front side	10	QPSK 1_0	20525/836.5	1:1	0.274	0.194	-0.14	24.35	25.00	1.161	0.318	22.1
Back side	10	QPSK 1_0	20525/836.5	1:1	0.686	0.386	0.06	24.35	25.00	1.161	0.797	22.1
Left side	10	QPSK 1_0	20525/836.5	1:1	0.121	0.074	-0.16	24.35	25.00	1.161	0.141	22.1
Right side	10	QPSK 1_0	20525/836.5	1:1	0.313	0.211	-0.01	24.35	25.00	1.161	0.364	22.1
Top side	10	QPSK 1_0	20525/836.5	1:1	0.020	0.007	0.00	24.35	25.00	1.161	0.023	22.1
Bottom side	10	QPSK 1_0	20525/836.5	1:1	0.296	0.162	0.01	24.35	25.00	1.161	0.344	22.1
Hotspot Test data (Separate 10mm 50%RB) SET3 (Unfold)												
Front side	10	QPSK 25_0	20525/836.5	1:1	0.239	0.160	-0.03	23.57	24.00	1.104	0.264	22.1
Back side	10	QPSK 25_0	20525/836.5	1:1	0.533	0.301	0.16	23.57	24.00	1.104	0.588	22.1
Left side	10	QPSK 25_0	20525/836.5	1:1	0.095	0.059	0.10	23.57	24.00	1.104	0.105	22.1
Right side	10	QPSK 25_0	20525/836.5	1:1	0.255	0.169	-0.08	23.57	24.00	1.104	0.282	22.1
Top side	10	QPSK 25_0	20525/836.5	1:1	0.015	0.005	0.09	23.57	24.00	1.104	0.017	22.1
Bottom side	10	QPSK 25_0	20525/836.5	1:1	0.234	0.128	0.05	23.57	24.00	1.104	0.258	22.1
Hotspot Evaluate data (Separate 10mm 1RB) SET3 (Fold) with CA &ENDC												
Front side	10	QPSK 1_0	20525/836.5	1:1	0.308	0.208	0.15	24.35	22.00	0.582	0.179	22.1
Back side	10	QPSK 1_0	20525/836.5	1:1	0.778	0.585	-0.08	24.35	22.00	0.582	0.453	22.1
Left side	10	QPSK 1_0	20525/836.5	1:1	0.339	0.220	-0.01	24.35	22.00	0.582	0.197	22.1
Right side	10	QPSK 1_0	20525/836.5	1:1	0.492	0.324	0.00	24.35	22.00	0.582	0.286	22.1
Top side	10	QPSK 1_0	20525/836.5	1:1	0.033	0.012	-0.02	24.35	22.00	0.582	0.019	22.1
Bottom side	10	QPSK 1_0	20525/836.5	1:1	0.210	0.110	-0.07	24.35	22.00	0.582	0.122	22.1
Hotspot Evaluate data (Separate 10mm 50%RB) SET3 (Fold) with CA &ENDC												
Front side	10	QPSK 25_0	20525/836.5	1:1	0.218	0.153	0.12	23.57	22.00	0.697	0.152	22.1
Back side	10	QPSK 25_0	20525/836.5	1:1	0.590	0.396	0.15	23.57	22.00	0.697	0.411	22.1
Left side	10	QPSK 25_0	20525/836.5	1:1	0.257	0.167	0.01	23.57	22.00	0.697	0.179	22.1
Right side	10	QPSK 25_0	20525/836.5	1:1	0.381	0.250	-0.12	23.57	22.00	0.697	0.265	22.1
Top side	10	QPSK 25_0	20525/836.5	1:1	0.027	0.009	0.13	23.57	22.00	0.697	0.019	22.1
Bottom side	10	QPSK 25_0	20525/836.5	1:1	0.150	0.084	0.06	23.57	22.00	0.697	0.104	22.1
Hotspot Evaluate data (Separate 10mm 100%RB) SET3 (Fold) with CA												
Back side	10	QPSK 50_0	20525/836.5	1:1	0.557	0.375	-0.02	23.55	22.00	0.700	0.390	22.1
Hotspot Evaluate data (Separate 10mm 1RB) SET3 (Unfold) with CA &ENDC												
Front side	10	QPSK 1_0	20525/836.5	1:1	0.274	0.194	-0.14	24.35	22.00	0.582	0.159	22.1
Back side	10	QPSK 1_0	20525/836.5	1:1	0.686	0.386	0.06	24.35	22.00	0.582	0.399	22.1
Left side	10	QPSK 1_0	20525/836.5	1:1	0.121	0.074	-0.16	24.35	22.00	0.582	0.070	22.1
Right side	10	QPSK 1_0	20525/836.5	1:1	0.313	0.211	-0.01	24.35	22.00	0.582	0.182	22.1



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Top side	10	QPSK 1_0	20525/836.5	1:1	0.020	0.007	0.00	24.35	22.00	0.582	0.012	22.1
Bottom side	10	QPSK 1_0	20525/836.5	1:1	0.296	0.162	0.01	24.35	22.00	0.582	0.172	22.1
Hotspot Evaluate data (Separate 10mm 50%RB) SET3 (Unfold) with CA &ENDC												
Front side	10	QPSK 25_0	20525/836.5	1:1	0.239	0.160	-0.03	23.57	22.00	0.697	0.166	22.1
Back side	10	QPSK 25_0	20525/836.5	1:1	0.533	0.301	0.16	23.57	22.00	0.697	0.371	22.1
Left side	10	QPSK 25_0	20525/836.5	1:1	0.095	0.059	0.10	23.57	22.00	0.697	0.066	22.1
Right side	10	QPSK 25_0	20525/836.5	1:1	0.255	0.169	-0.08	23.57	22.00	0.697	0.178	22.1
Top side	10	QPSK 25_0	20525/836.5	1:1	0.015	0.005	0.09	23.57	22.00	0.697	0.010	22.1
Bottom side	10	QPSK 25_0	20525/836.5	1:1	0.234	0.128	0.05	23.57	22.00	0.697	0.163	22.1



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8.3.7 SAR Result of LTE Band 12

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) SET1												
Left cheek	10	QPSK 1_49	23095/707.5	1:1	0.167	0.090	-0.03	24.38	25.00	1.153	0.193	22.1
Left tilted	10	QPSK 1_49	23095/707.5	1:1	0.055	0.041	0.10	24.38	25.00	1.153	0.063	22.1
Right cheek	10	QPSK 1_49	23095/707.5	1:1	0.173	0.117	0.09	24.38	25.00	1.153	0.200	22.1
Right tilted	10	QPSK 1_49	23095/707.5	1:1	0.069	0.050	-0.15	24.38	25.00	1.153	0.080	22.1
Right cheek with Battery2#	10	QPSK 1_49	23095/707.5	1:1	0.154	0.101	-0.04	24.38	25.00	1.153	0.178	22.1
Head Test Data (50%RB) SET1												
Left cheek	10	QPSK 25_0	23095/707.5	1:1	0.098	0.052	0.04	23.58	24.00	1.102	0.108	22.1
Left tilted	10	QPSK 25_0	23095/707.5	1:1	0.031	0.014	0.10	23.58	24.00	1.102	0.034	22.1
Right cheek	10	QPSK 25_0	23095/707.5	1:1	0.105	0.072	-0.12	23.58	24.00	1.102	0.116	22.1
Right tilted	10	QPSK 25_0	23095/707.5	1:1	0.033	0.016	0.06	23.58	24.00	1.102	0.036	22.1
Body worn Test data (Separate 15mm 1RB) SET 2 (Fold)												
Front side	10	QPSK 1_49	23095/707.5	1:1	0.152	0.106	0.15	24.38	25.00	1.153	0.175	22.1
Back side	10	QPSK 1_49	23095/707.5	1:1	0.540	0.400	-0.08	24.38	25.00	1.153	0.623	22.1
Back side with Battery2#	10	QPSK 1_49	23095/707.5	1:1	0.468	0.245	-0.09	24.38	25.00	1.153	0.540	22.1
Body worn Test data (Separate 15mm 50%RB) SET2 (Fold)												
Front side	10	QPSK 25_0	23095/707.5	1:1	0.100	0.071	-0.01	23.58	24.00	1.102	0.110	22.1
Back side	10	QPSK 25_0	23095/707.5	1:1	0.382	0.259	-0.17	23.58	24.00	1.102	0.421	22.1
Body worn Test data (Separate 15mm 1RB) SET 2 (Unfold)												
Front side	10	QPSK 1_49	23095/707.5	1:1	0.183	0.127	-0.04	24.38	25.00	1.153	0.211	22.1
Back side	10	QPSK 1_49	23095/707.5	1:1	0.406	0.276	-0.07	24.38	25.00	1.153	0.468	22.1
Body worn Test data (Separate 15mm 50%RB) SET2 (Unfold)												
Front side	10	QPSK 25_0	23095/707.5	1:1	0.129	0.090	0.00	23.58	24.00	1.102	0.142	22.1
Back side	10	QPSK 25_0	23095/707.5	1:1	0.303	0.207	-0.11	23.58	24.00	1.102	0.334	22.1
Hotspot Test data (Separate 10mm 1RB) SET3 (Fold)												
Front side	10	QPSK 1_49	23095/707.5	1:1	0.239	0.167	0.15	24.38	25.00	1.153	0.276	22.1
Back side	10	QPSK 1_49	23095/707.5	1:1	0.888	0.641	-0.07	24.38	25.00	1.153	1.024	22.1
Back side Repeated	10	QPSK 1_49	23095/707.5	1:1	0.792	0.625	-0.07	24.38	25.00	1.153	0.914	22.1
Left side	10	QPSK 1_49	23095/707.5	1:1	0.279	0.182	-0.15	24.38	25.00	1.153	0.322	22.1
Right side	10	QPSK 1_49	23095/707.5	1:1	0.513	0.338	-0.13	24.38	25.00	1.153	0.592	22.1
Top side	10	QPSK 1_49	23095/707.5	1:1	0.037	0.013	0.11	24.38	25.00	1.153	0.043	22.1
Bottom side	10	QPSK 1_49	23095/707.5	1:1	0.186	0.106	-0.13	24.38	25.00	1.153	0.215	22.1
Back side with Battery2#	10	QPSK 1_49	23095/707.5	1:1	0.835	0.615		24.38	25.00	1.153	0.963	22.1
Hotspot Test data (Separate 10mm 50%RB) SET3 (Fold)												
Front side	10	QPSK 25_0	23095/707.5	1:1	0.162	0.113	-0.16	23.58	24.00	1.102	0.178	22.1
Back side	10	QPSK 25_0	23095/707.5	1:1	0.677	0.454	0.05	23.58	24.00	1.102	0.746	22.1
Left side	10	QPSK 25_0	23095/707.5	1:1	0.168	0.111	-0.05	23.58	24.00	1.102	0.185	22.1
Right side	10	QPSK 25_0	23095/707.5	1:1	0.357	0.234	0.10	23.58	24.00	1.102	0.393	22.1
Top side	10	QPSK 25_0	23095/707.5	1:1	0.033	0.011	-0.16	23.58	24.00	1.102	0.036	22.1
Bottom side	10	QPSK 25_0	23095/707.5	1:1	0.131	0.073	0.03	23.58	24.00	1.102	0.144	22.1
Hotspot Test data (Separate 10mm 100%RB) SET3 (Fold)												



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Back side	10	QPSK 50_0	23095/707.5	1:1	0.698	0.462	0.08	23.57	24.00	1.104	0.771	22.1
Hotspot Test data (Separate 10mm 1RB) SET3 (Unfold)												
Front side	10	QPSK 1_49	23095/707.5	1:1	0.274	0.189	-0.04	24.38	25.00	1.153	0.316	22.1
Back side	10	QPSK 1_49	23095/707.5	1:1	0.677	0.458	-0.05	24.38	25.00	1.153	0.781	22.1
Left side	10	QPSK 1_49	23095/707.5	1:1	0.093	0.065	-0.16	24.38	25.00	1.153	0.107	22.1
Right side	10	QPSK 1_49	23095/707.5	1:1	0.513	0.336	-0.01	24.38	25.00	1.153	0.592	22.1
Top side	10	QPSK 1_49	23095/707.5	1:1	0.025	0.009	0.08	24.38	25.00	1.153	0.029	22.1
Bottom side	10	QPSK 1_49	23095/707.5	1:1	0.177	0.092	-0.09	24.38	25.00	1.153	0.204	22.1
Hotspot Test data (Separate 10mm 50%RB) SET3 (Unfold)												
Front side	10	QPSK 25_0	23095/707.5	1:1	0.200	0.140	-0.14	23.58	24.00	1.102	0.220	22.1
Back side	10	QPSK 25_0	23095/707.5	1:1	0.528	0.361	-0.18	23.58	24.00	1.102	0.582	22.1
Left side	10	QPSK 25_0	23095/707.5	1:1	0.078	0.053	-0.19	23.58	24.00	1.102	0.086	22.1
Right side	10	QPSK 25_0	23095/707.5	1:1	0.375	0.250	-0.10	23.58	24.00	1.102	0.413	22.1
Top side	10	QPSK 25_0	23095/707.5	1:1	0.021	0.007	-0.04	23.58	24.00	1.102	0.023	22.1
Bottom side	10	QPSK 25_0	23095/707.5	1:1	0.121	0.063	-0.04	23.58	24.00	1.102	0.133	22.1

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Back side	23095/707.5	0.888	0.792	1.121	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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8.3.8 SAR Result of LTE Band 13

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) SET1												
Left cheek	10	QPSK 1_49	23230/782	1:1	0.365	0.260	0.17	24.51	25.00	1.119	0.409	22.1
Left tilted	10	QPSK 1_49	23230/782	1:1	0.211	0.158	0.07	24.51	25.00	1.119	0.236	22.1
Right cheek	10	QPSK 1_49	23230/782	1:1	0.391	0.280	0.07	24.51	25.00	1.119	0.438	22.1
Right tilted	10	QPSK 1_49	23230/782	1:1	0.275	0.203	-0.10	24.51	25.00	1.119	0.308	22.1
Right cheek with Battery2#	10	QPSK 1_49	23230/782	1:1	0.376	0.235	-0.06	24.51	25.00	1.119	0.421	22.1
Head Test Data (50%RB) SET1												
Left cheek	10	QPSK 25_25	23230/782	1:1	0.270	0.194	0.06	23.62	24.00	1.091	0.295	22.1
Left tilted	10	QPSK 25_25	23230/782	1:1	0.163	0.121	-0.04	23.62	24.00	1.091	0.178	22.1
Right cheek	10	QPSK 25_25	23230/782	1:1	0.303	0.210	-0.02	23.62	24.00	1.091	0.331	22.1
Right tilted	10	QPSK 25_25	23230/782	1:1	0.211	0.155	0.14	23.62	24.00	1.091	0.230	22.1
Body worn Test data (Separate 15mm 1RB) SET2 (Fold)												
Front side	10	QPSK 1_49	23230/782	1:1	0.279	0.196	0.05	24.51	25.00	1.119	0.312	22.1
Back side	10	QPSK 1_49	23230/782	1:1	0.751	0.568	-0.13	24.51	25.00	1.119	0.841	22.1
Back side with Battery2#	10	QPSK 1_49	23230/782	1:1	0.736	0.535	0.01	24.51	25.00	1.119	0.824	22.1
Body worn Test data (Separate 15mm 50%RB) SET 2 (Fold)												
Front side	10	QPSK 25_25	23230/782	1:1	0.219	0.155	0.03	23.62	24.00	1.091	0.239	22.1
Back side	10	QPSK 25_25	23230/782	1:1	0.589	0.401	-0.08	23.62	24.00	1.091	0.643	22.1
Body worn Test data (Separate 15mm 100RB) SET2 (Fold)												
Back side	10	QPSK 50_0	23230/782	1:1	0.598	0.316	-0.08	23.58	24.00	1.102	0.659	22.1
Body worn Test data (Separate 15mm 1RB) SET 2 (Unfold)												
Front side	10	QPSK 1_49	23230/782	1:1	0.246	0.173	-0.01	24.51	25.00	1.119	0.275	22.1
Back side	10	QPSK 1_49	23230/782	1:1	0.358	0.233	-0.14	24.51	25.00	1.119	0.401	22.1
Body worn Test data (Separate 15mm 50%RB) SET2 (Unfold)												
Front side	10	QPSK 25_25	23230/782	1:1	0.197	0.139	0.11	23.62	24.00	1.091	0.215	22.1
Back side	10	QPSK 25_25	23230/782	1:1	0.297	0.194	-0.16	23.62	24.00	1.091	0.324	22.1
Body worn Evaluate data (Separate 15mm 1RB) SET2 (Fold) with ENDC												
Front side	10	QPSK 1_49	23230/782	1:1	0.279	0.196	0.05	24.51	22.00	0.561	0.157	22.1
Back side	10	QPSK 1_49	23230/782	1:1	0.751	0.568	-0.13	24.51	22.00	0.561	0.421	22.1
Body worn Evaluate data (Separate 15mm 50%RB) SET 2 (Fold) with ENDC												
Front side	10	QPSK 25_25	23230/782	1:1	0.219	0.155	0.03	23.62	22.00	0.689	0.151	22.1
Back side	10	QPSK 25_25	23230/782	1:1	0.589	0.401	-0.08	23.62	22.00	0.689	0.406	22.1
Body worn Test data (Separate 15mm 100RB) SET2 (Fold) with ENDC												
Back side	10	QPSK 50_0	23230/782	1:1	0.598	0.316	-0.08	23.58	22.00	0.695	0.416	22.1
Body worn Evaluate data (Separate 15mm 1RB) SET 2 (Unfold) with ENDC												
Front side	10	QPSK 1_49	23230/782	1:1	0.246	0.173	-0.01	24.51	22.00	0.561	0.138	22.1
Back side	10	QPSK 1_49	23230/782	1:1	0.358	0.233	-0.14	24.51	22.00	0.561	0.201	22.1
Body worn Evaluate data (Separate 15mm 50%RB) SET2 (Unfold) with ENDC												
Front side	10	QPSK 25_25	23230/782	1:1	0.197	0.139	0.11	23.62	22.00	0.689	0.136	22.1
Back side	10	QPSK 25_25	23230/782	1:1	0.297	0.194	-0.16	23.62	22.00	0.689	0.205	22.1
Hotspot Test data (Separate 10mm 1RB) SET3 (Fold)												



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Front side	10	QPSK 1_49	23230/782	1:1	0.297	0.207	0.00	24.51	25.00	1.119	0.332	22.1
Back side	10	QPSK 1_49	23230/782	1:1	0.758	0.572	-0.03	24.51	25.00	1.119	0.849	22.1
Left side	10	QPSK 1_49	23230/782	1:1	0.333	0.218	-0.07	24.51	25.00	1.119	0.373	22.1
Right side	10	QPSK 1_49	23230/782	1:1	0.519	0.343	0.07	24.51	25.00	1.119	0.581	22.1
Top side	10	QPSK 1_49	23230/782	1:1	0.036	0.019	0.13	24.51	25.00	1.119	0.040	22.1
Bottom side	10	QPSK 1_49	23230/782	1:1	0.199	0.108	0.05	24.51	25.00	1.119	0.223	22.1
Back side with Battery2#	10	QPSK 1_49	23230/782	1:1	0.736	0.549	0.01	24.51	25.00	1.119	0.824	22.1
Hotspot Test data (Separate 10mm 50%RB) SET3 (Fold)												
Front side	10	QPSK 25_25	23230/782	1:1	0.241	0.169	-0.15	23.62	24.00	1.091	0.263	22.1
Back side	10	QPSK 25_25	23230/782	1:1	0.610	0.414	0.14	23.62	24.00	1.091	0.666	22.1
Left side	10	QPSK 25_25	23230/782	1:1	0.267	0.175	0.19	23.62	24.00	1.091	0.291	22.1
Right side	10	QPSK 25_25	23230/782	1:1	0.411	0.273	0.09	23.62	24.00	1.091	0.449	22.1
Top side	10	QPSK 25_25	23230/782	1:1	0.033	0.016	0.10	23.62	24.00	1.091	0.036	22.1
Bottom side	10	QPSK 25_25	23230/782	1:1	0.156	0.086	0.14	23.62	24.00	1.091	0.170	22.1
Hotspot Test data (Separate 10mm 100%RB) SET3 (Fold)												
Back side	10	QPSK 50_0	23230/782	1:1	0.617	0.418	-0.03	23.58	24.00	1.102	0.680	22.1
Hotspot Test data (Separate 10mm 1RB) SET3 (Unfold)												
Front side	10	QPSK 1_49	23230/782	1:1	0.270	0.184	0.16	24.51	25.00	1.119	0.302	22.1
Back side	10	QPSK 1_49	23230/782	1:1	0.671	0.376	0.01	24.51	25.00	1.119	0.751	22.1
Left side	10	QPSK 1_49	23230/782	1:1	0.129	0.087	0.01	24.51	25.00	1.119	0.144	22.1
Right side	10	QPSK 1_49	23230/782	1:1	0.351	0.235	-0.19	24.51	25.00	1.119	0.393	22.1
Top side	10	QPSK 1_49	23230/782	1:1	0.029	0.013	0.01	24.51	25.00	1.119	0.032	22.1
Bottom side	10	QPSK 1_49	23230/782	1:1	0.325	0.177	0.03	24.51	25.00	1.119	0.364	22.1
Hotspot Test data (Separate 10mm 50%RB) SET3 (Unfold)												
Front side	10	QPSK 25_25	23230/782	1:1	0.217	0.146	0.09	23.62	24.00	1.091	0.237	22.1
Back side	10	QPSK 25_25	23230/782	1:1	0.510	0.285	0.18	23.62	24.00	1.091	0.557	22.1
Left side	10	QPSK 25_25	23230/782	1:1	0.102	0.069	-0.14	23.62	24.00	1.091	0.111	22.1
Right side	10	QPSK 25_25	23230/782	1:1	0.277	0.187	0.10	23.62	24.00	1.091	0.302	22.1
Top side	10	QPSK 25_25	23230/782	1:1	0.022	0.010	-0.12	23.62	24.00	1.091	0.024	22.1
Bottom side	10	QPSK 25_25	23230/782	1:1	0.247	0.135	0.09	23.62	24.00	1.091	0.270	22.1



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8.3.9 SAR Result of LTE Band 48

Ant 3 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) SET1												
Left cheek	20	QPSK 1_0	55990/3625	1:1.58	0.819	0.360	-0.19	20.59	21.00	1.099	0.900	22.0
Left tilted	20	QPSK 1_0	55990/3625	1:1.58	0.133	0.059	0.08	20.59	21.00	1.099	0.146	22.0
Right cheek	20	QPSK 1_0	55990/3625	1:1.58	0.401	0.191	-0.05	20.59	21.00	1.099	0.441	22.0
Right tilted	20	QPSK 1_0	55990/3625	1:1.58	0.190	0.080	0.09	20.59	21.00	1.099	0.209	22.0
Left cheek	20	QPSK 1_0	55340/3560	1:1.58	0.685	0.269	-0.12	20.34	21.00	1.164	0.797	22.0
Left cheek	20	QPSK 1_0	56640/3690	1:1.58	1.030	0.449	0.07	20.47	21.00	1.130	1.164	22.0
Left cheek Repeated	20	QPSK 1_0	56640/3690	1:1.58	0.990	0.421	-0.10	20.47	21.00	1.130	1.118	22.0
Left cheek with Battery2#	20	QPSK 1_0	56640/3690	1:1.58	0.967	0.398	-0.06	20.47	21.00	1.130	1.093	22.0
Left cheek	20	QPSK PCC 1_99	55340/3560	1:1.58	0.881	0.392	0.060	20.37	21.00	1.156	1.019	22.0
		QPSK SCC 1_0	55538/3579.8									
Head Test Data (50%RB) SET1												
Left cheek	20	QPSK 50_50	55990/3625	1:1.58	0.675	0.300	0.14	20.58	21.00	1.102	0.744	22.0
Left tilted	20	QPSK 50_50	55990/3625	1:1.58	0.113	0.050	0.13	20.58	21.00	1.102	0.124	22.0
Right cheek	20	QPSK 50_50	55990/3625	1:1.58	0.324	0.154	0.04	20.58	21.00	1.102	0.357	22.0
Right tilted	20	QPSK 50_50	55990/3625	1:1.58	0.160	0.068	0.06	20.58	21.00	1.102	0.176	22.0
Left cheek	20	QPSK 50_50	55990/3625	1:1.58	0.663	0.247	-0.01	20.58	21.00	1.102	0.730	22.0
Left cheek	20	QPSK 50_50	55990/3625	1:1.58	0.657	0.236	0.07	20.58	21.00	1.102	0.724	22.0
Head Test Data (100%RB) SET1												
Left cheek	20	QPSK 100_0	55990/3625	1:1.58	0.670	0.294	-0.11	20.35	21.00	1.161	0.778	22.0
Head Evaluate Data (1RB) SET1 with ENDC												
Left cheek	20	QPSK 1_0	55990/3625	1:1.58	0.819	0.360	-0.19	20.59	18.00	0.551	0.451	22.0
Left tilted	20	QPSK 1_0	55990/3625	1:1.58	0.133	0.059	0.08	20.59	18.00	0.551	0.073	22.0
Right cheek	20	QPSK 1_0	55990/3625	1:1.58	0.401	0.191	-0.05	20.59	18.00	0.551	0.221	22.0
Right tilted	20	QPSK 1_0	55990/3625	1:1.58	0.190	0.080	0.09	20.59	18.00	0.551	0.105	22.0
Left cheek	20	QPSK 1_0	55340/3560	1:1.58	0.685	0.269	-0.12	20.34	18.00	0.583	0.400	22.0
Left cheek	20	QPSK 1_0	56640/3690	1:1.58	1.030	0.449	0.07	20.47	18.00	0.566	0.583	22.0
Left cheek Repeated	20	QPSK 1_0	56640/3690	1:1.58	0.990	0.421	-0.10	20.47	18.00	0.566	0.561	22.0
Left cheek	20	QPSK PCC 1_99	55340/3560	1:1.58	0.881	0.392	0.060	20.37	18.00	0.579	0.510	22.0
		QPSK SCC 1_0	55538/3579.8									
Head Test Data (50%RB) SET1 with ENDC												
Left cheek	20	QPSK 50_50	55990/3625	1:1.58	0.675	0.300	0.14	20.58	18.00	0.552	0.373	22.0
Left tilted	20	QPSK 50_50	55990/3625	1:1.58	0.113	0.050	0.13	20.58	18.00	0.552	0.062	22.0
Right cheek	20	QPSK 50_50	55990/3625	1:1.58	0.324	0.154	0.04	20.58	18.00	0.552	0.179	22.0
Right tilted	20	QPSK 50_50	55990/3625	1:1.58	0.160	0.068	0.06	20.58	18.00	0.552	0.088	22.0
Head Test Data (100%RB) SET1 with ENDC												
Left cheek	20	QPSK 100_0	55990/3625	1:1.58	0.670	0.294	-0.11	20.35	18.00	0.582	0.390	22.0
Body worn Test data (Separate 15mm 1RB) SET 2 (Fold)												
Front side	20	QPSK 1_0	55990/3625	1:1.58	0.068	0.026	0.13	22.50	23.00	1.122	0.076	22.0



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Back side	20	QPSK 1_0	55990/3625	1:1.58	0.206	0.096	0.09	22.50	23.00	1.122	0.231	22.0
Back side with Battery2#	20	QPSK 1_0	55990/3625	1:1.58	0.189	0.087	-0.02	22.50	23.00	1.122	0.212	22.0
Back side	20	QPSK PCC 1_0	55990/3625	1:1.58	0.176	0.065	-0.08	22.61	23.00	1.094	0.193	22.0
		QPSK SCC 1_99	56188/3644.8									
Body worn Test data (Separate 15mm 50%RB) SET2 (Fold)												
Front side	20	QPSK 50_50	55990/3625	1:1.58	0.052	0.024	0.15	21.31	22.00	1.172	0.061	22.0
Back side	20	QPSK 50_50	55990/3625	1:1.58	0.162	0.078	-0.01	21.31	22.00	1.172	0.190	22.0
Body worn Test data (Separate 15mm 1RB) SET 2 (Unfold)												
Front side	20	QPSK 1_0	55990/3625	1:1.58	0.205	0.101	-0.04	22.50	23.00	1.122	0.230	22.0
Back side	20	QPSK 1_0	55990/3625	1:1.58	0.189	0.089	0.06	22.50	23.00	1.122	0.212	22.0
Back side	20	QPSK PCC 1_0	55990/3625	1:1.58	0.165	0.054	0.15	22.61	23.00	1.094	0.181	22.0
		QPSK SCC 1_99	56188/3644.8									
Body worn Test data (Separate 15mm 50%RB) SET2 (Unfold)												
Front side	20	QPSK 50_50	55990/3625	1:1.58	0.154	0.077	-0.16	21.31	22.00	1.172	0.181	22.0
Back side	20	QPSK 50_50	55990/3625	1:1.58	0.130	0.062	0.10	21.31	22.00	1.172	0.152	22.0
Hotspot Test data (Separate 10mm 1RB) SET3 (Fold)												
Front side	20	QPSK 1_0	55990/3625	1:1.58	0.128	0.061	0.17	22.50	23.00	1.122	0.144	22.0
Back side	20	QPSK 1_0	55990/3625	1:1.58	0.353	0.157	0.07	22.50	23.00	1.122	0.396	22.0
Left side	20	QPSK 1_0	55990/3625	1:1.58	0.440	0.199	0.12	22.50	23.00	1.122	0.494	22.0
Right side	20	QPSK 1_0	55990/3625	1:1.58	0.067	0.029	0.19	22.50	23.00	1.122	0.075	22.0
Top side	20	QPSK 1_0	55990/3625	1:1.58	0.157	0.075	-0.19	22.50	23.00	1.122	0.176	22.0
Bottom side	20	QPSK 1_0	55990/3625	1:1.58	0.128	0.059	-0.18	22.50	23.00	1.122	0.144	22.0
Left side	20	QPSK PCC 1_0	55990/3625	1:1.58	0.387	0.176	-0.04	22.61	23.00	1.094	0.423	22.0
		QPSK SCC 1_99	56188/3644.8									
Hotspot Test data (Separate 10mm 50%RB) SET3 (Fold)												
Front side	20	QPSK 50_50	55990/3625	1:1.58	0.084	0.039	-0.07	21.31	22.00	1.172	0.098	22.0
Back side	20	QPSK 50_50	55990/3625	1:1.58	0.301	0.132	0.05	21.31	22.00	1.172	0.353	22.0
Left side	20	QPSK 50_50	55990/3625	1:1.58	0.373	0.163	-0.03	21.31	22.00	1.172	0.437	22.0
Right side	20	QPSK 50_50	55990/3625	1:1.58	0.081	0.021	-0.06	21.31	22.00	1.172	0.095	22.0
Top side	20	QPSK 50_50	55990/3625	1:1.58	0.129	0.060	-0.10	21.31	22.00	1.172	0.151	22.0
Bottom side	20	QPSK 50_50	55990/3625	1:1.58	0.097	0.045	0.09	21.31	22.00	1.172	0.114	22.0
Hotspot Test data (Separate 10mm 1RB) SET3 (Unfold)												
Front side	20	QPSK 1_0	55990/3625	1:1.58	0.277	0.131	0.00	22.50	23.00	1.122	0.311	22.0
Back side	20	QPSK 1_0	55990/3625	1:1.58	0.341	0.151	0.06	22.50	23.00	1.122	0.383	22.0
Left side	20	QPSK 1_0	55990/3625	1:1.58	0.523	0.250	0.17	22.50	23.00	1.122	0.587	22.0
Left side with Battery2#	20	QPSK 1_0	55990/3625	1:1.58	0.498	0.236	0.01	22.50	23.00	1.122	0.559	22.0
Right side	20	QPSK 1_0	55990/3625	1:1.58	0.134	0.057	-0.04	22.50	23.00	1.122	0.150	22.0
Top side	20	QPSK 1_0	55990/3625	1:1.58	0.074	0.037	0.14	22.50	23.00	1.122	0.083	22.0
Bottom side	20	QPSK 1_0	55990/3625	1:1.58	0.075	0.037	-0.12	22.50	23.00	1.122	0.084	22.0
Left side	20	QPSK PCC 1_0	55990/3625	1:1.58	0.511	0.198	-0.07	22.61	23.00	1.094	0.559	22.0
		QPSK SCC 1_99	56188/3644.8									
Hotspot Test data (Separate 10mm 50%RB) SET3 (Unfold)												
Front side	20	QPSK 50_50	55990/3625	1:1.58	0.197	0.092	0.15	21.31	22.00	1.172	0.231	22.0
Back side	20	QPSK 50_50	55990/3625	1:1.58	0.270	0.118	0.06	21.31	22.00	1.172	0.316	22.0



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Left side	20	QPSK 50_50	55990/3625	1:1.58	0.401	0.193	0.06	21.31	22.00	1.172	0.470	22.0
Right side	20	QPSK 50_50	55990/3625	1:1.58	0.070	0.030	0.02	21.31	22.00	1.172	0.082	22.0
Top side	20	QPSK 50_50	55990/3625	1:1.58	0.041	0.011	-0.02	21.31	22.00	1.172	0.048	22.0
Bottom side	20	QPSK 50_50	55990/3625	1:1.58	0.053	0.027	-0.13	21.31	22.00	1.172	0.062	22.0

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Left cheek	56640/3690	1.030	0.990	1.040	N/A	N/A

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

2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated 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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8.3.10 SAR Result of LTE Band 66

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) SET1												
Left cheek	20	QPSK 1_99	132572/1770	1:1	0.420	0.268	-0.09	20.72	21.50	1.197	0.503	22.0
Left tilted	20	QPSK 1_99	132572/1770	1:1	0.224	0.144	-0.14	20.72	21.50	1.197	0.268	22.0
Right cheek	20	QPSK 1_99	132572/1770	1:1	0.422	0.265	-0.09	20.72	21.50	1.197	0.505	22.0
Right tilted	20	QPSK 1_99	132572/1770	1:1	0.213	0.139	0.18	20.72	21.50	1.197	0.255	22.0
Head Test Data (50%RB) SET1												
Left cheek	20	QPSK 50_0	132572/1770	1:1	0.420	0.311	0.09	20.65	21.50	1.216	0.511	22.0
Left tilted	20	QPSK 50_0	132572/1770	1:1	0.209	0.134	0.18	20.65	21.50	1.216	0.254	22.0
Right cheek	20	QPSK 50_0	132572/1770	1:1	0.378	0.238	-0.07	20.65	21.50	1.216	0.460	22.0
Right tilted	20	QPSK 50_0	132572/1770	1:1	0.206	0.136	0.01	20.65	21.50	1.216	0.251	22.0
Left cheek with Battery2#	20	QPSK 50_0	132572/1770	1:1	0.398	0.287	-0.02	20.65	21.50	1.216	0.484	22.0
Body worn Test data (Separate 15mm 1RB) SET 2 (Fold)												
Front side	20	QPSK 1_99	132572/1770	1:1	0.039	0.022	0.12	20.72	21.50	1.197	0.047	22.0
Back side	20	QPSK 1_99	132572/1770	1:1	0.085	0.048	-0.18	20.72	21.50	1.197	0.102	22.0
Body worn Test data (Separate 15mm 50%RB) SET2 (Fold)												
Front side	20	QPSK 50_0	132572/1770	1:1	0.042	0.014	0.18	20.65	21.50	1.216	0.051	22.0
Back side	20	QPSK 50_0	132572/1770	1:1	0.073	0.043	0.02	20.65	21.50	1.216	0.089	22.0
Body worn Test data (Separate 15mm 1RB) SET 2 (Unfold)												
Front side	20	QPSK 1_99	132572/1770	1:1	0.250	0.148	0.19	20.72	21.50	1.197	0.299	22.0
Back side	20	QPSK 1_99	132572/1770	1:1	0.255	0.151	-0.10	20.72	21.50	1.197	0.305	22.0
Body worn Test data (Separate 15mm 50%RB) SET2 (Unfold)												
Front side	20	QPSK 50_0	132572/1770	1:1	0.176	0.107	0.08	20.65	21.50	1.216	0.214	22.0
Back side	20	QPSK 50_0	132572/1770	1:1	0.228	0.136	-0.15	20.65	21.50	1.216	0.277	22.0
Hotspot Test data (Separate 10mm 1RB) SET3 (Fold)												
Front side	20	QPSK 1_99	132572/1770	1:1	0.119	0.073	-0.19	23.75	24.50	1.189	0.141	22.0
Back side	20	QPSK 1_99	132572/1770	1:1	0.299	0.173	-0.08	23.75	24.50	1.189	0.355	22.0
Left side	20	QPSK 1_99	132572/1770	1:1	0.074	0.043	-0.18	23.75	24.50	1.189	0.088	22.0
Right side	20	QPSK 1_99	132572/1770	1:1	0.095	0.055	-0.17	23.75	24.50	1.189	0.113	22.0
Top side	20	QPSK 1_99	132572/1770	1:1	0.161	0.093	0.03	23.75	24.50	1.189	0.191	22.0
Bottom side	20	QPSK 1_99	132572/1770	1:1	0.035	0.019	-0.07	23.75	24.50	1.189	0.042	22.0
Hotspot Test data (Separate 10mm 50%RB) SET3 (Fold)												
Front side	20	QPSK 50_0	132572/1770	1:1	0.089	0.055	-0.13	22.70	23.50	1.202	0.107	22.0
Back side	20	QPSK 50_0	132572/1770	1:1	0.224	0.132	0.14	22.70	23.50	1.202	0.269	22.0
Left side	20	QPSK 50_0	132572/1770	1:1	0.065	0.037	0.00	22.70	23.50	1.202	0.078	22.0
Right side	20	QPSK 50_0	132572/1770	1:1	0.063	0.037	0.07	22.70	23.50	1.202	0.076	22.0
Top side	20	QPSK 50_0	132572/1770	1:1	0.114	0.066	0.18	22.70	23.50	1.202	0.137	22.0
Bottom side	20	QPSK 50_0	132572/1770	1:1	0.031	0.017	0.00	22.70	23.50	1.202	0.037	22.0



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Hotspot Test data (Separate 10mm 1RB) SET3 (Unfold)												
Front side	20	QPSK 1_99	132572/1770	1:1	0.462	0.277	-0.02	23.75	24.50	1.189	0.549	22.0
Back side	20	QPSK 1_99	132572/1770	1:1	0.585	0.446	-0.14	23.75	24.50	1.189	0.695	22.0
Left side	20	QPSK 1_99	132572/1770	1:1	0.335	0.189	-0.11	23.75	24.50	1.189	0.398	22.0
Right side	20	QPSK 1_99	132572/1770	1:1	0.240	0.142	0.04	23.75	24.50	1.189	0.285	22.0
Top side	20	QPSK 1_99	132572/1770	1:1	0.033	0.015	-0.17	23.75	24.50	1.189	0.039	22.0
Bottom side	20	QPSK 1_99	132572/1770	1:1	0.082	0.053	0.02	23.75	24.50	1.189	0.097	22.0
Hotspot Test data (Separate 10mm 50%RB) SET3 (Unfold)												
Front side	20	QPSK 50_0	132572/1770	1:1	0.328	0.196	-0.19	22.70	23.50	1.202	0.394	22.0
Back side	20	QPSK 50_0	132572/1770	1:1	0.563	0.328	-0.05	22.70	23.50	1.202	0.677	22.0
Left side	20	QPSK 50_0	132572/1770	1:1	0.278	0.156	-0.09	22.70	23.50	1.202	0.334	22.0
Right side	20	QPSK 50_0	132572/1770	1:1	0.144	0.089	-0.03	22.70	23.50	1.202	0.173	22.0
Top side	20	QPSK 50_0	132572/1770	1:1	0.020	0.010	0.07	22.70	23.50	1.202	0.024	22.0
Bottom side	20	QPSK 50_0	132572/1770	1:1	0.044	0.027	0.04	22.70	23.50	1.202	0.053	22.0
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) SET1												
Left cheek	20	QPSK 1_99	132322/1745	1:1	0.092	0.047	0.08	21.19	21.50	1.074	0.099	22.0
Left tilted	20	QPSK 1_99	132322/1745	1:1	0.045	0.022	-0.19	21.19	21.50	1.074	0.048	22.0
Right cheek	20	QPSK 1_99	132322/1745	1:1	0.211	0.127	-0.09	21.19	21.50	1.074	0.227	22.0
Right tilted	20	QPSK 1_99	132322/1745	1:1	0.044	0.027	-0.04	21.19	21.50	1.074	0.047	22.0
Head Test Data (50%RB) SET1												
Left cheek	20	QPSK 50_50	132322/1745	1:1	0.071	0.035	-0.18	21.15	21.50	1.084	0.077	22.0
Left tilted	20	QPSK 50_50	132322/1745	1:1	0.032	0.014	0.08	21.15	21.50	1.084	0.035	22.0
Right cheek	20	QPSK 50_50	132322/1745	1:1	0.158	0.097	0.10	21.15	21.50	1.084	0.171	22.0
Right tilted	20	QPSK 50_50	132322/1745	1:1	0.031	0.016	0.03	21.15	21.50	1.084	0.034	22.0
Body worn Test data (Separate 15mm 1RB) SET 2 (Fold)												
Front side	20	QPSK 1_99	132322/1745	1:1	0.088	0.054	-0.19	21.19	21.50	1.074	0.095	22.0
Back side	20	QPSK 1_99	132322/1745	1:1	0.363	0.212	-0.11	21.19	21.50	1.074	0.390	22.0
Body worn Test data (Separate 15mm 50%RB) SET2 (Fold)												
Front side	20	QPSK 50_50	132322/1745	1:1	0.085	0.052	0.06	21.15	21.50	1.084	0.092	22.0
Back side	20	QPSK 50_50	132322/1745	1:1	0.360	0.216	-0.06	21.15	21.50	1.084	0.390	22.0
Body worn Test data (Separate 15mm 1RB) SET 2 (Unfold)												
Front side	20	QPSK 1_99	132322/1745	1:1	0.204	0.124	0.09	21.19	21.50	1.074	0.219	22.0
Back side	20	QPSK 1_99	132322/1745	1:1	0.383	0.259	-0.07	21.19	21.50	1.074	0.411	22.0
Back side with Battery2#	20	QPSK 1_99	132322/1745	1:1	0.368	0.235	-0.04	21.19	21.50	1.074	0.395	22.0
Body worn Test data (Separate 15mm 50%RB) SET2 (Unfold)												
Front side	20	QPSK 50_50	132322/1745	1:1	0.190	0.114	-0.07	21.15	21.50	1.084	0.206	22.0
Back side	20	QPSK 50_50	132322/1745	1:1	0.363	0.230	-0.09	21.15	21.50	1.084	0.393	22.0
Hotspot Test data (Separate 10mm 1RB) SET3 (Fold)												
Front side	20	QPSK 1_99	132322/1745	1:1	0.157	0.098	0.00	21.19	21.50	1.074	0.169	22.0
Back side	20	QPSK 1_99	132322/1745	1:1	0.546	0.319	0.18	21.19	21.50	1.074	0.586	22.0
Left side	20	QPSK 1_99	132322/1745	1:1	0.053	0.030	-0.09	21.19	21.50	1.074	0.057	22.0



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Right side	20	QPSK 1_99	132322/1745	1:1	0.319	0.170	0.02	21.19	21.50	1.074	0.343	22.0
Top side	20	QPSK 1_99	132322/1745	1:1	0.023	0.015	0.19	21.19	21.50	1.074	0.025	22.0
Bottom side	20	QPSK 1_99	132322/1745	1:1	0.184	0.107	0.04	21.19	21.50	1.074	0.198	22.0
Hotspot Test data (Separate 10mm 50%RB) SET3 (Fold)												
Front side	20	QPSK 50_50	132322/1745	1:1	0.127	0.079	-0.03	21.15	21.50	1.084	0.138	22.0
Back side	20	QPSK 50_50	132322/1745	1:1	0.567	0.382	-0.11	21.15	21.50	1.084	0.615	22.0
Left side	20	QPSK 50_50	132322/1745	1:1	0.064	0.037	0.04	21.15	21.50	1.084	0.069	22.0
Right side	20	QPSK 50_50	132322/1745	1:1	0.370	0.197	0.11	21.15	21.50	1.084	0.401	22.0
Top side	20	QPSK 50_50	132322/1745	1:1	0.033	0.021	0.00	21.15	21.50	1.084	0.036	22.0
Bottom side	20	QPSK 50_50	132322/1745	1:1	0.223	0.127	0.04	21.15	21.50	1.084	0.242	22.0
Hotspot Test data (Separate 10mm 1RB) SET3 (Unfold)												
Front side	20	QPSK 1_99	132322/1745	1:1	0.300	0.180	-0.01	21.19	21.50	1.074	0.322	22.0
Back side	20	QPSK 1_99	132322/1745	1:1	0.536	0.396	0.08	21.19	21.50	1.074	0.576	22.0
Left side	20	QPSK 1_99	132322/1745	1:1	0.074	0.046	-0.08	21.19	21.50	1.074	0.079	22.0
Right side	20	QPSK 1_99	132322/1745	1:1	0.436	0.217	0.13	21.19	21.50	1.074	0.468	22.0
Top side	20	QPSK 1_99	132322/1745	1:1	0.021	0.014	0.08	21.19	21.50	1.074	0.023	22.0
Bottom side	20	QPSK 1_99	132322/1745	1:1	0.241	0.141	0.08	21.19	21.50	1.074	0.259	22.0
Hotspot Test data (Separate 10mm 50%RB) SET3 (Unfold)												
Front side	20	QPSK 50_50	132322/1745	1:1	0.373	0.227	0.17	21.15	21.50	1.084	0.404	22.0
Back side	20	QPSK 50_50	132322/1745	1:1	0.688	0.486	0.00	21.15	21.50	1.084	0.746	22.0
Left side	20	QPSK 50_50	132322/1745	1:1	0.081	0.050	0.00	21.15	21.50	1.084	0.088	22.0
Right side	20	QPSK 50_50	132322/1745	1:1	0.480	0.248	0.06	21.15	21.50	1.084	0.520	22.0
Top side	20	QPSK 50_50	132322/1745	1:1	0.025	0.015	0.15	21.15	21.50	1.084	0.027	22.0
Bottom side	20	QPSK 50_50	132322/1745	1:1	0.297	0.172	0.19	21.15	21.50	1.084	0.322	22.0
Back side with Battery2#	20	QPSK 50_50	132322/1745	1:1	0.675	0.467	0.05	21.15	21.50	1.084	0.732	22.0



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8.3.11 SAR Result of NR Band n2

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) SET1												
Left cheek	40	QPSK 1_108	376000/1880	100%	0.375	0.310	0.10	20.13	20.50	1.089	0.408	22.1
Left tilted	40	QPSK 1_108	376000/1880	100%	0.268	0.171	0.14	20.13	20.50	1.089	0.292	22.1
Right cheek	40	QPSK 1_108	376000/1880	100%	0.545	0.367	0.03	20.13	20.50	1.089	0.593	22.1
Right tilted	40	QPSK 1_108	376000/1880	100%	0.274	0.175	0.14	20.13	20.50	1.089	0.298	22.1
Right cheek with Battery2#	40	QPSK 1_108	376000/1880	100%	0.531	0.358	0.01	20.13	20.50	1.089	0.578	22.1
Body worn Test data (Separate 15mm 1RB) SET2 (Fold)												
Left cheek	40	QPSK 108_54	376000/1880	100%	0.354	0.313	-0.02	19.93	20.50	1.140	0.404	22.1
Left tilted	40	QPSK 108_54	376000/1880	100%	0.263	0.169	-0.17	19.93	20.50	1.140	0.300	22.1
Right cheek	40	QPSK 108_54	376000/1880	100%	0.499	0.313	-0.08	19.93	20.50	1.140	0.569	22.1
Right tilted	40	QPSK 108_54	376000/1880	100%	0.275	0.176	0.00	19.93	20.50	1.140	0.314	22.1
Body worn Test data (Separate 15mm 50%RB) SET 2 (Fold)												
Front side	40	QPSK 1_108	376000/1880	100%	0.083	0.053	-0.18	20.90	21.50	1.148	0.095	22.1
Back side	40	QPSK 1_108	376000/1880	100%	0.239	0.139	0.11	20.90	21.50	1.148	0.274	22.1
Body worn Test data (Separate 15mm 1RB) SET 2 (Unfold)												
Front side	40	QPSK 1_108	376000/1880	100%	0.109	0.065	0.18	20.90	21.50	1.148	0.125	22.1
Back side	40	QPSK 1_108	376000/1880	100%	0.236	0.138	0.19	20.90	21.50	1.148	0.271	22.1
Body worn Test data (Separate 15mm 50%RB) SET 2 (Unfold)												
Front side	40	QPSK 108_54	376000/1880	100%	0.104	0.065	-0.17	20.77	21.50	1.183	0.123	22.1
Back side	40	QPSK 108_54	376000/1880	100%	0.257	0.163	0.09	20.77	21.50	1.183	0.304	22.1
Back side with Battery2#	40	QPSK 108_54	376000/1880	100%	0.236	0.132	-0.07	20.77	21.50	1.183	0.279	22.1
Hotspot Test data (Separate 10mm 1RB) SET3 (Fold)												
Front side	40	QPSK 1_108	376000/1880	100%	0.178	0.108	0.15	22.65	23.50	1.216	0.216	22.1
Back side	40	QPSK 1_108	376000/1880	100%	0.578	0.330	0.04	22.65	23.50	1.216	0.703	22.1
Left side	40	QPSK 1_108	376000/1880	100%	0.115	0.067	0.00	22.65	23.50	1.216	0.140	22.1
Right side	40	QPSK 1_108	376000/1880	100%	0.142	0.084	0.13	22.65	23.50	1.216	0.173	22.1
Top side	40	QPSK 1_108	376000/1880	100%	0.306	0.171	0.17	22.65	23.50	1.216	0.372	22.1
Bottom side	40	QPSK 1_108	376000/1880	100%	0.062	0.035	0.14	22.65	23.50	1.216	0.075	22.1
Hotspot Test data (Separate 10mm 50%RB) SET 3 (Fold)												
Front side	40	QPSK 108_54	376000/1880	100%	0.172	0.106	-0.05	22.54	23.50	1.247	0.215	22.1
Back side	40	QPSK 108_54	376000/1880	100%	0.548	0.317	0.02	22.54	23.50	1.247	0.684	22.1
Left side	40	QPSK 108_54	376000/1880	100%	0.118	0.072	0.11	22.54	23.50	1.247	0.147	22.1
Right side	40	QPSK 108_54	376000/1880	100%	0.141	0.083	-0.07	22.54	23.50	1.247	0.176	22.1
Top side	40	QPSK 108_54	376000/1880	100%	0.274	0.153	0.17	22.54	23.50	1.247	0.342	22.1
Bottom side	40	QPSK 108_54	376000/1880	100%	0.066	0.040	0.03	22.54	23.50	1.247	0.082	22.1
Hotspot Test data (Separate 10mm 1RB) SET3 (Unfold)												
Front side	40	QPSK 1_108	376000/1880	100%	0.258	0.159	-0.13	22.65	23.50	1.216	0.314	22.1



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Back side	40	QPSK 1_108	376000/1880	100%	0.610	0.354	0.15	22.65	23.50	1.216	0.742	22.1
Left side	40	QPSK 1_108	376000/1880	100%	0.159	0.092	-0.04	22.65	23.50	1.216	0.193	22.1
Right side	40	QPSK 1_108	376000/1880	100%	0.304	0.173	-0.18	22.65	23.50	1.216	0.370	22.1
Top side	40	QPSK 1_108	376000/1880	100%	0.031	0.014	-0.01	22.65	23.50	1.216	0.038	22.1
Bottom side	40	QPSK 1_108	376000/1880	100%	0.055	0.023	-0.13	22.65	23.50	1.216	0.067	22.1
Hotspot Test data (Separate 10mm 50%RB) SET 3 (Unfold)												
Front side	40	QPSK 108_54	376000/1880	100%	0.272	0.166	0.02	22.54	23.50	1.247	0.339	22.1
Back side	40	QPSK 108_54	376000/1880	100%	0.613	0.379	0.14	22.54	23.50	1.247	0.765	22.1
Left side	40	QPSK 108_54	376000/1880	100%	0.150	0.086	-0.16	22.54	23.50	1.247	0.187	22.1
Right side	40	QPSK 108_54	376000/1880	100%	0.334	0.193	0.07	22.54	23.50	1.247	0.417	22.1
Top side	40	QPSK 108_54	376000/1880	100%	0.038	0.016	-0.16	22.54	23.50	1.247	0.047	22.1
Bottom side	40	QPSK 108_54	376000/1880	100%	0.059	0.038	-0.12	22.54	23.50	1.247	0.074	22.1
Back side with Battery2#	40	QPSK 108_54	376000/1880	100%	0.587	0.324	-0.03	22.54	23.50	1.247	0.732	22.1
Hotspot Evaluate data (Separate 10mm 1RB) SET3 (Fold) with ENDC												
Front side	40	QPSK 1_108	376000/1880	100%	0.178	0.108	0.15	22.65	20.50	0.610	0.108	22.1
Back side	40	QPSK 1_108	376000/1880	100%	0.578	0.330	0.04	22.65	20.50	0.610	0.352	22.1
Left side	40	QPSK 1_108	376000/1880	100%	0.115	0.067	0.00	22.65	20.50	0.610	0.070	22.1
Right side	40	QPSK 1_108	376000/1880	100%	0.142	0.084	0.13	22.65	20.50	0.610	0.087	22.1
Top side	40	QPSK 1_108	376000/1880	100%	0.306	0.171	0.17	22.65	20.50	0.610	0.187	22.1
Bottom side	40	QPSK 1_108	376000/1880	100%	0.062	0.035	0.14	22.65	20.50	0.610	0.038	22.1
Hotspot Evaluate data (Separate 10mm 50%RB) SET 3 (Fold) with ENDC												
Front side	40	QPSK 108_54	376000/1880	100%	0.172	0.106	-0.05	22.54	20.50	0.625	0.108	22.1
Back side	40	QPSK 108_54	376000/1880	100%	0.548	0.317	0.02	22.54	20.50	0.625	0.343	22.1
Left side	40	QPSK 108_54	376000/1880	100%	0.118	0.072	0.11	22.54	20.50	0.625	0.074	22.1
Right side	40	QPSK 108_54	376000/1880	100%	0.141	0.083	-0.07	22.54	20.50	0.625	0.088	22.1
Top side	40	QPSK 108_54	376000/1880	100%	0.274	0.153	0.17	22.54	20.50	0.625	0.171	22.1
Bottom side	40	QPSK 108_54	376000/1880	100%	0.066	0.040	0.03	22.54	20.50	0.625	0.041	22.1
Hotspot Evaluate data (Separate 10mm 1RB) SET3 (Unfold) with ENDC												
Front side	40	QPSK 1_108	376000/1880	100%	0.258	0.159	-0.13	22.65	20.50	0.610	0.157	22.1
Back side	40	QPSK 1_108	376000/1880	100%	0.610	0.354	0.15	22.65	20.50	0.610	0.372	22.1
Left side	40	QPSK 1_108	376000/1880	100%	0.159	0.092	-0.04	22.65	20.50	0.610	0.097	22.1
Right side	40	QPSK 1_108	376000/1880	100%	0.304	0.173	-0.18	22.65	20.50	0.610	0.185	22.1
Top side	40	QPSK 1_108	376000/1880	100%	0.031	0.014	-0.01	22.65	20.50	0.610	0.019	22.1
Bottom side	40	QPSK 1_108	376000/1880	100%	0.055	0.023	-0.13	22.65	20.50	0.610	0.034	22.1
Hotspot Evaluate (Separate 10mm 50%RB) SET 3 (Unfold) with ENDC												
Front side	40	QPSK 108_54	376000/1880	100%	0.272	0.166	0.02	22.54	20.50	0.625	0.170	22.1
Back side	40	QPSK 108_54	376000/1880	100%	0.613	0.379	0.14	22.54	20.50	0.625	0.383	22.1
Left side	40	QPSK 108_54	376000/1880	100%	0.150	0.086	-0.16	22.54	20.50	0.625	0.094	22.1
Right side	40	QPSK 108_54	376000/1880	100%	0.334	0.193	0.07	22.54	20.50	0.625	0.209	22.1
Top side	40	QPSK 108_54	376000/1880	100%	0.038	0.016	-0.16	22.54	20.50	0.625	0.024	22.1
Bottom side	40	QPSK 108_54	376000/1880	100%	0.059	0.038	-0.12	22.54	20.50	0.625	0.037	22.1



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8.3.12 SAR Result of NR Band n5

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) SET1												
Left cheek	25	QPSK 1_132	167300/836.5	100%	0.186	0.233	0.16	24.74	25.00	1.062	0.197	22.1
Left tilted	25	QPSK 1_132	167300/836.5	100%	0.095	0.119	0.09	24.74	25.00	1.062	0.101	22.1
Right cheek	25	QPSK 1_132	167300/836.5	100%	0.301	0.209	0.02	24.74	25.00	1.062	0.320	22.1
Right tilted	25	QPSK 1_132	167300/836.5	100%	0.163	0.204	0.14	24.74	25.00	1.062	0.173	22.1
Right cheek with Battery2#	25	QPSK 1_132	167300/836.5	100%	0.287	0.168	-0.01	24.74	25.00	1.062	0.305	22.1
Head Test Data (50%RB) SET1												
Left cheek	25	QPSK 64_35	167300/836.5	100%	0.165	0.123	-0.05	24.70	25.00	1.072	0.177	22.1
Left tilted	25	QPSK 64_35	167300/836.5	100%	0.123	0.093	0.16	24.70	25.00	1.072	0.132	22.1
Right cheek	25	QPSK 64_35	167300/836.5	100%	0.204	0.145	-0.06	24.70	25.00	1.072	0.219	22.1
Right tilted	25	QPSK 64_35	167300/836.5	100%	0.121	0.089	0.01	24.70	25.00	1.072	0.130	22.1
Body worn Test data (Separate 15mm 1RB) SET 2 (Fold)												
Front side	25	QPSK 1_132	167300/836.5	100%	0.107	0.075	-0.15	24.74	25.00	1.062	0.114	22.1
Back side	25	QPSK 1_132	167300/836.5	100%	0.469	0.323	-0.12	24.74	25.00	1.062	0.498	22.1
Body worn Test data (Separate 15mm 50%RB) SET2 (Fold)												
Front side	25	QPSK 64_35	167300/836.5	100%	0.138	0.098	0.06	24.70	25.00	1.072	0.148	22.1
Back side	25	QPSK 64_35	167300/836.5	100%	0.593	0.447	0.08	24.70	25.00	1.072	0.635	22.1
Back side with Battery2#	25	QPSK 64_35	167300/836.5	100%	0.575	0.425	-0.03	24.70	25.00	1.072	0.616	22.1
Body worn Test data (Separate 15mm 1RB) SET 2 (Unfold)												
Front side	25	QPSK 1_132	167300/836.5	100%	0.173	0.096	0.18	24.74	25.00	1.062	0.184	22.1
Back side	25	QPSK 1_132	167300/836.5	100%	0.464	0.261	0.00	24.74	25.00	1.062	0.493	22.1
Body worn Test data (Separate 15mm 50%RB) SET 2 (Unfold)												
Front side	25	QPSK 64_35	167300/836.5	100%	0.203	0.127	0.19	24.70	25.00	1.072	0.218	22.1
Back side	25	QPSK 64_35	167300/836.5	100%	0.536	0.310	-0.19	24.70	25.00	1.072	0.574	22.1
Hotspot Test data (Separate 10mm 1RB) SET3 (Fold)												
Front side	25	QPSK 1_132	167300/836.5	100%	0.112	0.079	-0.13	24.74	25.00	1.062	0.119	22.1
Back side	25	QPSK 1_132	167300/836.5	100%	0.587	0.320	-0.10	24.74	25.00	1.062	0.623	22.1
Left side	25	QPSK 1_132	167300/836.5	100%	0.145	0.093	0.07	24.74	25.00	1.062	0.154	22.1
Right side	25	QPSK 1_132	167300/836.5	100%	0.352	0.231	0.12	24.74	25.00	1.062	0.374	22.1
Top side	25	QPSK 1_132	167300/836.5	100%	0.066	0.032	-0.04	24.74	25.00	1.062	0.070	22.1
Bottom side	25	QPSK 1_132	167300/836.5	100%	0.329	0.179	0.01	24.74	25.00	1.062	0.349	22.1
Hotspot Test data (Separate 10mm 50%RB) SET3 (Fold)												
Front side	25	QPSK 64_35	167300/836.5	100%	0.182	0.128	0.18	24.70	25.00	1.072	0.195	22.1
Back side	25	QPSK 64_35	167300/836.5	100%	0.769	0.572	0.06	24.70	25.00	1.072	0.824	22.1
Left side	25	QPSK 64_35	167300/836.5	100%	0.191	0.122	0.11	24.70	25.00	1.072	0.205	22.1
Right side	25	QPSK 64_35	167300/836.5	100%	0.409	0.267	-0.14	24.70	25.00	1.072	0.438	22.1
Top side	25	QPSK 64_35	167300/836.5	100%	0.061	0.026	-0.08	24.70	25.00	1.072	0.065	22.1
Bottom side	25	QPSK 64_35	167300/836.5	100%	0.304	0.167	0.17	24.70	25.00	1.072	0.326	22.1
Back side with Battery2#	25	QPSK 64_35	167300/836.5	100%	0.721	0.548	0.02	24.70	25.00	1.072	0.773	22.1
Hotspot Test data (Separate 10mm 100%RB) SET3(Fold)												
Back side	25	QPSK 64_35	167300/836.5	100%	0.686	0.469	-0.01	23.83	24.00	1.040	0.713	22.1
Hotspot Test data (Separate 10mm 1RB) SET3 (Unfold)												



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Front side	25	QPSK 1_132	167300/836.5	100%	0.248	0.145	-0.13	24.74	25.00	1.062	0.263	22.1
Back side	25	QPSK 1_132	167300/836.5	100%	0.712	0.481	0.17	24.74	25.00	1.062	0.756	22.1
Left side	25	QPSK 1_132	167300/836.5	100%	0.129	0.078	-0.03	24.74	25.00	1.062	0.137	22.1
Right side	25	QPSK 1_132	167300/836.5	100%	0.164	0.109	-0.19	24.74	25.00	1.062	0.174	22.1
Top side	25	QPSK 1_132	167300/836.5	100%	0.078	0.036	0.17	24.74	25.00	1.062	0.083	22.1
Bottom side	25	QPSK 1_132	167300/836.5	100%	0.368	0.211	-0.11	24.74	25.00	1.062	0.391	22.1
Hotspot Test data (Separate 10mm 50%RB) SET3 (Unfold)												
Front side	25	QPSK 64_35	167300/836.5	100%	0.278	0.162	0.02	24.70	25.00	1.072	0.298	22.1
Back side	25	QPSK 64_35	167300/836.5	100%	0.728	0.393	0.17	24.70	25.00	1.072	0.780	22.1
Left side	25	QPSK 64_35	167300/836.5	100%	0.099	0.058	0.07	24.70	25.00	1.072	0.106	22.1
Right side	25	QPSK 64_35	167300/836.5	100%	0.270	0.184	0.05	24.70	25.00	1.072	0.289	22.1
Top side	25	QPSK 64_35	167300/836.5	100%	0.073	0.033	0.02	24.70	25.00	1.072	0.078	22.1
Bottom side	25	QPSK 64_35	167300/836.5	100%	0.356	0.200	-0.10	24.70	25.00	1.072	0.381	22.1
Hotspot Evaluate data (Separate 10mm 1RB) SET3 (Fold) with ENDC												
Front side	25	QPSK 1_132	167300/836.5	100%	0.112	0.079	-0.13	24.74	22.00	0.532	0.060	22.1
Back side	25	QPSK 1_132	167300/836.5	100%	0.587	0.320	-0.10	24.74	22.00	0.532	0.312	22.1
Left side	25	QPSK 1_132	167300/836.5	100%	0.145	0.093	0.07	24.74	22.00	0.532	0.077	22.1
Right side	25	QPSK 1_132	167300/836.5	100%	0.352	0.231	0.12	24.74	22.00	0.532	0.187	22.1
Top side	25	QPSK 1_132	167300/836.5	100%	0.066	0.032	-0.04	24.74	22.00	0.532	0.035	22.1
Bottom side	25	QPSK 1_132	167300/836.5	100%	0.329	0.179	0.01	24.74	22.00	0.532	0.175	22.1
Hotspot Evaluate data (Separate 10mm 50%RB) SET3 (Fold) with ENDC												
Front side	25	QPSK 64_35	167300/836.5	100%	0.182	0.128	0.18	24.70	22.00	0.537	0.098	22.1
Back side	25	QPSK 64_35	167300/836.5	100%	0.769	0.572	0.06	24.70	22.00	0.537	0.413	22.1
Left side	25	QPSK 64_35	167300/836.5	100%	0.191	0.122	0.11	24.70	22.00	0.537	0.103	22.1
Right side	25	QPSK 64_35	167300/836.5	100%	0.409	0.267	-0.14	24.70	22.00	0.537	0.220	22.1
Top side	25	QPSK 64_35	167300/836.5	100%	0.061	0.026	-0.08	24.70	22.00	0.537	0.033	22.1
Bottom side	25	QPSK 64_35	167300/836.5	100%	0.304	0.167	0.17	24.70	22.00	0.537	0.163	22.1
Hotspot Test data (Separate 10mm 100%RB) SET3(Fold)												
Back side	25	QPSK 64_35	167300/836.5	100%	0.686	0.469	-0.01	23.83	21.00	0.521	0.358	22.1
Hotspot Evaluate data (Separate 10mm 1RB) SET3 (Unfold) with ENDC												
Front side	25	QPSK 1_132	167300/836.5	100%	0.248	0.145	-0.13	24.74	22.00	0.532	0.132	22.1
Back side	25	QPSK 1_132	167300/836.5	100%	0.712	0.481	0.17	24.74	22.00	0.532	0.379	22.1
Left side	25	QPSK 1_132	167300/836.5	100%	0.129	0.078	-0.03	24.74	22.00	0.532	0.069	22.1
Right side	25	QPSK 1_132	167300/836.5	100%	0.164	0.109	-0.19	24.74	22.00	0.532	0.087	22.1
Top side	25	QPSK 1_132	167300/836.5	100%	0.078	0.036	0.17	24.74	22.00	0.532	0.042	22.1
Bottom side	25	QPSK 1_132	167300/836.5	100%	0.368	0.211	-0.11	24.74	22.00	0.532	0.196	22.1
Hotspot Evaluate data (Separate 10mm 50%RB) SET3 (Unfold) with ENDC												
Front side	25	QPSK 64_35	167300/836.5	100%	0.278	0.162	0.02	24.70	22.00	0.537	0.149	22.1
Back side	25	QPSK 64_35	167300/836.5	100%	0.728	0.393	0.17	24.70	22.00	0.537	0.391	22.1
Left side	25	QPSK 64_35	167300/836.5	100%	0.099	0.058	0.07	24.70	22.00	0.537	0.053	22.1
Right side	25	QPSK 64_35	167300/836.5	100%	0.270	0.184	0.05	24.70	22.00	0.537	0.145	22.1
Top side	25	QPSK 64_35	167300/836.5	100%	0.073	0.033	0.02	24.70	22.00	0.537	0.039	22.1
Bottom side	25	QPSK 64_35	167300/836.5	100%	0.356	0.200	-0.10	24.70	22.00	0.537	0.191	22.1



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8.3.13 SAR Result of NR Band n48

Ant3 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) SET1												
Left cheek	100	QPSK 1_1	641666/3624.99	100%	0.847	0.371	0.08	19.68	20.00	1.076	0.912	22.1
Left tilted	100	QPSK 1_1	641666/3624.99	100%	0.132	0.060	-0.12	19.68	20.00	1.076	0.142	22.1
Right cheek	100	QPSK 1_1	641666/3624.99	100%	0.466	0.230	0.15	19.68	20.00	1.076	0.502	22.1
Right tilted	100	QPSK 1_1	641666/3624.99	100%	0.175	0.078	-0.05	19.68	20.00	1.076	0.188	22.1
Left cheek	100	QPSK 1_1	640000/3600	100%	0.741	0.328	0.01	19.63	20.00	1.089	0.807	22.1
Left cheek	100	QPSK 1_1	643332/3649.98	100%	0.959	0.427	-0.18	19.65	20.00	1.084	1.039	22.1
Head Test Data (50%RB) SET1												
Left cheek	100	QPSK 135_69	641666/3624.99	100%	0.976	0.430	0.15	19.54	20.00	1.112	1.085	22.1
Left tilted	100	QPSK 135_69	641666/3624.99	100%	0.171	0.080	0.15	19.54	20.00	1.112	0.190	22.1
Right cheek	100	QPSK 135_69	641666/3624.99	100%	0.538	0.265	0.13	19.54	20.00	1.112	0.598	22.1
Right tilted	100	QPSK 135_69	641666/3624.99	100%	0.207	0.092	0.11	19.54	20.00	1.112	0.230	22.1
Left cheek	100	QPSK 135_69	640000/3600	100%	0.970	0.434	0.18	19.52	20.00	1.117	1.083	22.1
Left cheek	100	QPSK 135_69	643332/3649.98	100%	1.130	0.498	0.09	19.51	20.00	1.119	1.265	22.1
Left cheek Repeated	100	QPSK 135_69	643332/3649.98	100%	1.050	0.486	0.09	19.51	20.00	1.119	1.175	22.1
Left cheek with Battery2#	100	QPSK 135_69	643332/3649.98	100%	0.996	0.436	-0.02	19.51	20.00	1.119	1.115	22.1
Head Test Data (100%RB) SET1												
Left cheek	100	QPSK 270_0	641666/3624.99	100%	0.780	0.349	0.06	18.70	19.00	1.072	0.836	22.1
Body worn Test data (Separate 15mm 1RB) SET2 (Fold)												
Front side	100	QPSK 1_1	641666/3624.99	100%	0.123	0.059	-0.19	23.64	24.00	1.086	0.134	22.1
Back side	100	QPSK 1_1	641666/3624.99	100%	0.345	0.163	-0.03	23.64	24.00	1.086	0.375	22.1
Body worn Test data (Separate 15mm 50%RB) SET2 (Fold)												
Front side	100	QPSK 135_69	641666/3624.99	100%	0.113	0.054	-0.19	23.54	24.00	1.112	0.126	22.1
Back side	100	QPSK 135_69	641666/3624.99	100%	0.401	0.191	0.04	23.54	24.00	1.112	0.446	22.1
Back side with Battery2#	100	QPSK 135_69	641666/3624.99	100%	0.387	0.165	-0.07	23.54	24.00	1.112	0.430	22.1
Body worn Test data (Separate 15mm 1RB) SET2 (Unfold)												
Front side	100	QPSK 1_1	641666/3624.99	100%	0.133	0.060	-0.15	23.64	24.00	1.086	0.144	22.1
Back side	100	QPSK 1_1	641666/3624.99	100%	0.385	0.177	0.18	23.64	24.00	1.086	0.418	22.1
Body worn Test data (Separate 15mm 50%RB) SET2 (Unfold)												
Front side	100	QPSK 135_69	641666/3624.99	100%	0.175	0.081	-0.13	23.54	24.00	1.112	0.195	22.1
Back side	100	QPSK 135_69	641666/3624.99	100%	0.374	0.173	-0.13	23.54	24.00	1.112	0.416	22.1
Hotspot Test data (Separate 10mm 1RB) SET3 (Fold)												
Front side	100	QPSK 1_1	641666/3624.99	100%	0.182	0.089	0.12	23.64	24.00	1.086	0.198	22.1
Back side	100	QPSK 1_1	641666/3624.99	100%	0.570	0.254	0.01	23.64	24.00	1.086	0.619	22.1
Left side	100	QPSK 1_1	641666/3624.99	100%	0.670	0.300	0.18	23.64	24.00	1.086	0.728	22.1
Right side	100	QPSK 1_1	641666/3624.99	100%	0.103	0.043	0.03	23.64	24.00	1.086	0.112	22.1
Top side	100	QPSK 1_1	641666/3624.99	100%	0.260	0.124	-0.08	23.64	24.00	1.086	0.282	22.1
Bottom side	100	QPSK 1_1	641666/3624.99	100%	0.249	0.106	0.16	23.64	24.00	1.086	0.271	22.1
Back side	100	QPSK 1_1	640000/3600	100%	0.463	0.236	0.14	23.59	24.00	1.099	0.509	22.1
Back side	100	QPSK 1_1	643332/3649.98	100%	0.495	0.241	0.09	23.64	24.00	1.086	0.538	22.1



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Left side	100	QPSK 1_1	640000/3600	100%	0.568	0.256	0.13	23.59	24.00	1.099	0.624	22.1
Left side	100	QPSK 1_1	643332/3649.98	100%	0.782	0.341	0.08	23.64	24.00	1.086	0.850	22.1
Hotspot Test data (Separate 10mm 50%RB) SET3 (Fold)												
Front side	100	QPSK 135_69	641666/3624.99	100%	0.184	0.083	0.16	23.54	24.00	1.112	0.205	22.1
Back side	100	QPSK 135_69	641666/3624.99	100%	0.654	0.291	0.04	23.54	24.00	1.112	0.727	22.1
Left side	100	QPSK 135_69	641666/3624.99	100%	0.754	0.337	0.13	23.54	24.00	1.112	0.838	22.1
Right side	100	QPSK 135_69	641666/3624.99	100%	0.119	0.050	0.19	23.54	24.00	1.112	0.132	22.1
Top side	100	QPSK 135_69	641666/3624.99	100%	0.255	0.121	-0.19	23.54	24.00	1.112	0.283	22.1
Bottom side	100	QPSK 135_69	641666/3624.99	100%	0.239	0.109	-0.03	23.54	24.00	1.112	0.266	22.1
Back side	100	QPSK 135_69	640000/3600	100%	0.623	0.243	-0.10	23.51	24.00	1.119	0.697	22.1
Back side	100	QPSK 135_69	643332/3649.98	100%	0.639	0.265	-0.10	23.47	24.00	1.130	0.722	22.1
Left side	100	QPSK 135_69	640000/3600	100%	0.750	0.335	0.04	23.51	24.00	1.119	0.840	22.1
Left side	100	QPSK 135_69	643332/3649.98	100%	0.933	0.404	-0.19	23.47	24.00	1.130	1.054	22.1
Hotspot Test data (Separate 10mm 100%RB) SET3 (Fold)												
Left side	100	QPSK 270_0	641666/3624.99	100%	0.668	0.281	0.18	22.66	23.00	1.081	0.722	22.1
Hotspot Test data (Separate 10mm 1RB) SET3 (Unfold)												
Front side	100	QPSK 1_1	641666/3624.99	100%	0.363	0.167	-0.02	23.64	24.00	1.086	0.394	22.1
Back side	100	QPSK 1_1	641666/3624.99	100%	0.525	0.236	0.11	23.64	24.00	1.086	0.570	22.1
Left side	100	QPSK 1_1	641666/3624.99	100%	0.810	0.372	0.15	23.64	24.00	1.086	0.880	22.1
Right side	100	QPSK 1_1	641666/3624.99	100%	0.359	0.143	-0.11	23.64	24.00	1.086	0.390	22.1
Top side	100	QPSK 1_1	641666/3624.99	100%	0.092	0.039	-0.05	23.64	24.00	1.086	0.100	22.1
Bottom side	100	QPSK 1_1	641666/3624.99	100%	0.150	0.060	0.12	23.64	24.00	1.086	0.163	22.1
Left side	100	QPSK 1_1	640000/3600	100%	0.710	0.322	0.14	23.59	24.00	1.099	0.780	22.1
Left side	100	QPSK 1_1	643332/3649.98	100%	0.915	0.412	-0.11	23.64	24.00	1.086	0.994	22.1
Hotspot Test data (Separate 10mm 50%RB) SET3 (Unfold)												
Front side	100	QPSK 135_69	641666/3624.99	100%	0.246	0.108	-0.11	23.54	24.00	1.112	0.273	22.1
Back side	100	QPSK 135_69	641666/3624.99	100%	0.538	0.246	0.06	23.54	24.00	1.112	0.598	22.1
Left side	100	QPSK 135_69	641666/3624.99	100%	0.915	0.414	0.16	23.54	24.00	1.112	1.017	22.1
Right side	100	QPSK 135_69	641666/3624.99	100%	0.242	0.097	0.14	23.54	24.00	1.112	0.269	22.1
Top side	100	QPSK 135_69	641666/3624.99	100%	0.089	0.046	-0.01	23.54	24.00	1.112	0.099	22.1
Bottom side	100	QPSK 135_69	641666/3624.99	100%	0.107	0.048	0.02	23.54	24.00	1.112	0.119	22.1
Left side	100	QPSK 135_69	640000/3600	100%	0.915	0.414	0.14	23.51	24.00	1.119	1.024	22.1
Left side	100	QPSK 135_69	643332/3649.98	100%	1.050	0.490	0.05	23.47	24.00	1.130	1.186	22.1
Left side Repeated	100	QPSK 135_69	643332/3649.98	100%	0.992	0.478	0.05	23.47	24.00	1.130	1.121	22.1
Left side with Battery2#	100	QPSK 135_69	643332/3649.98	100%	0.986	0.462	-0.07	23.47	24.00	1.130	1.114	22.1
Hotspot Test data (Separate 10mm 100%RB) SET3 (Unfold)												
Left side	100	QPSK 270_0	641666/3624.99	100%	0.724	0.332	0.19	22.66	23.00	1.081	0.783	22.1

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Left cheek	643332/3649.98	1.130	1.050	1.076	N/A	N/A
Left side 10mm	643332/3649.98	1.050	0.992	1.058	N/A	N/A

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

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



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| 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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Shenzhen Branch Inspection & Testing Services Laboratory

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8.3.14 SAR Result of NR Band n66

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) SET1												
Left cheek	40	QPSK 1_214	349000/1745	100%	0.274	0.178	-0.15	20.93	21.50	1.140	0.312	22.1
Left tilted	40	QPSK 1_214	349000/1745	100%	0.162	0.107	0.00	20.93	21.50	1.140	0.185	22.1
Right cheek	40	QPSK 1_214	349000/1745	100%	0.245	0.161	-0.13	20.93	21.50	1.140	0.279	22.1
Right tilted	40	QPSK 1_214	349000/1745	100%	0.151	0.099	0.16	20.93	21.50	1.140	0.172	22.1
Head Test Data (50%RB) SET1												
Left cheek	40	QPSK 108_54	349000/1745	100%	0.358	0.261	0.07	20.71	21.50	1.199	0.429	22.1
Left tilted	40	QPSK 108_54	349000/1745	100%	0.168	0.110	-0.15	20.71	21.50	1.199	0.202	22.1
Right cheek	40	QPSK 108_54	349000/1745	100%	0.253	0.166	0.02	20.71	21.50	1.199	0.303	22.1
Right tilted	40	QPSK 108_54	349000/1745	100%	0.154	0.102	0.06	20.71	21.50	1.199	0.185	22.1
Left cheek with Battery2#	40	QPSK 108_54	349000/1745	100%	0.332	0.246	-0.01	20.71	21.50	1.199	0.398	22.1
Body worn Test data (Separate 15mm 1RB) SET2 (Fold)												
Front side	40	QPSK 1_214	349000/1745	100%	0.032	0.020	0.00	20.93	21.50	1.140	0.036	22.1
Back side	40	QPSK 1_214	349000/1745	100%	0.059	0.036	-0.11	20.93	21.50	1.140	0.067	22.1
Body worn Test data (Separate 15mm 50%RB) SET2 (Fold)												
Front side	40	QPSK 108_54	349000/1745	100%	0.034	0.021	-0.13	20.71	21.50	1.199	0.041	22.1
Back side	40	QPSK 108_54	349000/1745	100%	0.064	0.039	-0.11	20.71	21.50	1.199	0.077	22.1
Body worn Test data (Separate 15mm 1RB) SET2 (Unfold)												
Front side	40	QPSK 1_214	349000/1745	100%	0.152	0.085	0.13	20.93	21.50	1.140	0.173	22.1
Back side	40	QPSK 1_214	349000/1745	100%	0.186	0.113	0.16	20.93	21.50	1.140	0.212	22.1
Body worn Test data (Separate 15mm 50%RB) SET2 (Unfold)												
Front side	40	QPSK 108_54	349000/1745	100%	0.127	0.079	0.10	20.71	21.50	1.199	0.152	22.1
Back side	40	QPSK 108_54	349000/1745	100%	0.201	0.126	0.13	20.71	21.50	1.199	0.241	22.1
Back side with Battery2#	40	QPSK 108_54	349000/1745	100%	0.178	0.103	-0.04	20.71	21.50	1.199	0.214	22.1
Hotspot Test data (Separate 10mm 1RB) SET3 (Fold)												
Front side	40	QPSK 1_214	349000/1745	100%	0.084	0.053	-0.09	23.96	24.50	1.132	0.095	22.1
Back side	40	QPSK 1_214	349000/1745	100%	0.225	0.133	0.17	23.96	24.50	1.132	0.255	22.1
Left side	40	QPSK 1_214	349000/1745	100%	0.057	0.032	-0.06	23.96	24.50	1.132	0.065	22.1
Right side	40	QPSK 1_214	349000/1745	100%	0.067	0.039	0.03	23.96	24.50	1.132	0.076	22.1
Top side	40	QPSK 1_214	349000/1745	100%	0.100	0.057	0.07	23.96	24.50	1.132	0.113	22.1
Bottom side	40	QPSK 1_214	349000/1745	100%	0.031	0.014	-0.02	23.96	24.50	1.132	0.035	22.1
Hotspot Test data (Separate 10mm 50%RB) SET3 (Fold)												
Front side	40	QPSK 108_54	349000/1745	100%	0.100	0.064	0.12	23.77	24.50	1.183	0.118	22.1
Back side	40	QPSK 108_54	349000/1745	100%	0.236	0.143	0.10	23.77	24.50	1.183	0.279	22.1
Left side	40	QPSK 108_54	349000/1745	100%	0.064	0.037	-0.18	23.77	24.50	1.183	0.076	22.1
Right side	40	QPSK 108_54	349000/1745	100%	0.082	0.049	0.17	23.77	24.50	1.183	0.097	22.1
Top side	40	QPSK 108_54	349000/1745	100%	0.117	0.067	0.09	23.77	24.50	1.183	0.138	22.1
Bottom side	40	QPSK 108_54	349000/1745	100%	0.042	0.022	0.19	23.77	24.50	1.183	0.050	22.1
Hotspot Test data (Separate 10mm 1RB) SET3 (Unfold)												
Front side	40	QPSK 1_214	349000/1745	100%	0.364	0.219	-0.08	23.96	24.50	1.132	0.412	22.1
Back side	40	QPSK 1_214	349000/1745	100%	0.666	0.390	-0.14	23.96	24.50	1.132	0.754	22.1



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Left side	40	QPSK 1_214	349000/1745	100%	0.334	0.187	-0.14	23.96	24.50	1.132	0.378	22.1
Right side	40	QPSK 1_214	349000/1745	100%	0.209	0.125	0.16	23.96	24.50	1.132	0.237	22.1
Top side	40	QPSK 1_214	349000/1745	100%	0.038	0.020	-0.18	23.96	24.50	1.132	0.043	22.1
Bottom side	40	QPSK 1_214	349000/1745	100%	0.087	0.055	0.17	23.96	24.50	1.132	0.099	22.1
Hotspot Test data (Separate 10mm 50%RB) SET3 (Unfold)												
Front side	40	QPSK 108_54	349000/1745	100%	0.389	0.240	0.05	23.77	24.50	1.183	0.460	22.1
Back side	40	QPSK 108_54	349000/1745	100%	0.698	0.418	0.08	23.77	24.50	1.183	0.826	22.1
Left side	40	QPSK 108_54	349000/1745	100%	0.338	0.191	-0.11	23.77	24.50	1.183	0.400	22.1
Right side	40	QPSK 108_54	349000/1745	100%	0.252	0.151	-0.07	23.77	24.50	1.183	0.298	22.1
Top side	40	QPSK 108_54	349000/1745	100%	0.046	0.030	0.19	23.77	24.50	1.183	0.054	22.1
Bottom side	40	QPSK 108_54	349000/1745	100%	0.070	0.046	0.11	23.77	24.50	1.183	0.083	22.1
Back side with Battery2#	40	QPSK 108_54	349000/1745	100%	0.667	0.374	-0.01	23.77	24.50	1.183	0.789	22.1
Hotspot Test data (Separate 10mm 100%RB) SET3 (Unfold)												
Back side	40	QPSK 216_0	349000/1745	100%	0.508	0.297	0.03	22.80	23.50	1.175	0.597	22.1
Hotspot Evaluate data (Separate 10mm 1RB) SET3 (Fold) with ENDC												
Front side	40	QPSK 1_214	349000/1745	100%	0.084	0.053	-0.09	23.96	21.50	0.568	0.048	22.1
Back side	40	QPSK 1_214	349000/1745	100%	0.225	0.133	0.17	23.96	21.50	0.568	0.128	22.1
Left side	40	QPSK 1_214	349000/1745	100%	0.057	0.032	-0.06	23.96	21.50	0.568	0.032	22.1
Right side	40	QPSK 1_214	349000/1745	100%	0.067	0.039	0.03	23.96	21.50	0.568	0.038	22.1
Top side	40	QPSK 1_214	349000/1745	100%	0.100	0.057	0.07	23.96	21.50	0.568	0.057	22.1
Bottom side	40	QPSK 1_214	349000/1745	100%	0.031	0.014	-0.02	23.96	21.50	0.568	0.018	22.1
Hotspot Evaluate data (Separate 10mm 50%RB) SET3 (Fold) with ENDC												
Front side	40	QPSK 108_54	349000/1745	100%	0.100	0.064	0.12	23.77	21.50	0.593	0.059	22.1
Back side	40	QPSK 108_54	349000/1745	100%	0.236	0.143	0.10	23.77	21.50	0.593	0.140	22.1
Left side	40	QPSK 108_54	349000/1745	100%	0.064	0.037	-0.18	23.77	21.50	0.593	0.038	22.1
Right side	40	QPSK 108_54	349000/1745	100%	0.082	0.049	0.17	23.77	21.50	0.593	0.049	22.1
Top side	40	QPSK 108_54	349000/1745	100%	0.117	0.067	0.09	23.77	21.50	0.593	0.069	22.1
Bottom side	40	QPSK 108_54	349000/1745	100%	0.042	0.022	0.19	23.77	21.50	0.593	0.025	22.1
Hotspot Evaluate data (Separate 10mm 1RB) SET3 (Unfold) with ENDC												
Front side	40	QPSK 1_214	349000/1745	100%	0.364	0.219	-0.08	23.96	21.50	0.568	0.207	22.1
Back side	40	QPSK 1_214	349000/1745	100%	0.666	0.390	-0.14	23.96	21.50	0.568	0.378	22.1
Left side	40	QPSK 1_214	349000/1745	100%	0.334	0.187	-0.14	23.96	21.50	0.568	0.190	22.1
Right side	40	QPSK 1_214	349000/1745	100%	0.209	0.125	0.16	23.96	21.50	0.568	0.119	22.1
Top side	40	QPSK 1_214	349000/1745	100%	0.038	0.020	-0.18	23.96	21.50	0.568	0.022	22.1
Bottom side	40	QPSK 1_214	349000/1745	100%	0.087	0.055	0.17	23.96	21.50	0.568	0.049	22.1
Hotspot Evaluate data (Separate 10mm 50%RB) SET3 (Unfold) with ENDC												
Front side	40	QPSK 108_54	349000/1745	100%	0.389	0.240	0.05	23.77	21.50	0.593	0.231	22.1
Back side	40	QPSK 108_54	349000/1745	100%	0.698	0.418	0.08	23.77	21.50	0.593	0.414	22.1
Left side	40	QPSK 108_54	349000/1745	100%	0.338	0.191	-0.11	23.77	21.50	0.593	0.200	22.1
Right side	40	QPSK 108_54	349000/1745	100%	0.252	0.151	-0.07	23.77	21.50	0.593	0.149	22.1
Top side	40	QPSK 108_54	349000/1745	100%	0.046	0.030	0.19	23.77	21.50	0.593	0.027	22.1
Bottom side	40	QPSK 108_54	349000/1745	100%	0.070	0.046	0.11	23.77	21.50	0.593	0.042	22.1
Hotspot Evaluate data (Separate 10mm 100%RB) SET3 (Unfold) with ENDC												
Back side	40	QPSK 216_0	349000/1745	100%	0.508	0.297	0.03	22.80	20.50	0.589	0.299	22.1



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8.3.15 SAR Result of NR Band n77(3450-3550)

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) SET1												
Left cheek	100	QPSK 1_137	633334/3500	100%	0.680	0.314	-0.08	21.66	22.00	1.081	0.735	22.1
Left tilted	100	QPSK 1_137	633334/3500	100%	0.110	0.057	0.08	21.66	22.00	1.081	0.119	22.1
Right cheek	100	QPSK 1_137	633334/3500	100%	0.370	0.178	-0.17	21.66	22.00	1.081	0.400	22.1
Right tilted	100	QPSK 1_137	633334/3500	100%	0.143	0.063	0.13	21.66	22.00	1.081	0.155	22.1
Head Test Data (50%RB) SET1												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.684	0.321	-0.12	21.57	22.00	1.104	0.755	22.1
Left tilted	100	QPSK 135_69	633334/3500	100%	0.121	0.052	-0.03	21.57	22.00	1.104	0.134	22.1
Right cheek	100	QPSK 135_69	633334/3500	100%	0.361	0.181	0.03	21.57	22.00	1.104	0.399	22.1
Right tilted	100	QPSK 135_69	633334/3500	100%	0.139	0.061	0.07	21.57	22.00	1.104	0.153	22.1
Head Evaluate Data (1RB) SET1 with ENDC												
Left cheek	100	QPSK 1_137	633334/3500	100%	0.680	0.314	-0.08	21.66	19.50	0.608	0.413	22.1
Left tilted	100	QPSK 1_137	633334/3500	100%	0.110	0.057	0.08	21.66	19.50	0.608	0.067	22.1
Right cheek	100	QPSK 1_137	633334/3500	100%	0.370	0.178	-0.17	21.66	19.50	0.608	0.225	22.1
Right tilted	100	QPSK 1_137	633334/3500	100%	0.143	0.063	0.13	21.66	19.50	0.608	0.087	22.1
Head Evaluate Data (50%RB) SET1 with ENDC												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.684	0.321	-0.12	21.57	19.50	0.621	0.425	22.1
Left tilted	100	QPSK 135_69	633334/3500	100%	0.121	0.052	-0.03	21.57	19.50	0.621	0.075	22.1
Right cheek	100	QPSK 135_69	633334/3500	100%	0.361	0.181	0.03	21.57	19.50	0.621	0.224	22.1
Right tilted	100	QPSK 135_69	633334/3500	100%	0.139	0.061	0.07	21.57	19.50	0.621	0.086	22.1
Body worn Test data (Separate 15mm 1RB) SET2 (Fold)												
Front side	100	QPSK 1_137	633334/3500	100%	0.139	0.066	0.04	26.12	26.50	1.091	0.152	22.1
Back side	100	QPSK 1_137	633334/3500	100%	0.372	0.174	0.06	26.12	26.50	1.091	0.406	22.1
Body worn Test data (Separate 15mm 50%RB) SET 2 (Fold)												
Front side	100	QPSK 135_69	633334/3500	100%	0.117	0.054	0.09	26.08	26.50	1.102	0.129	22.1
Back side	100	QPSK 135_69	633334/3500	100%	0.381	0.174	-0.18	26.08	26.50	1.102	0.420	22.1
Body worn Test data (Separate 15mm 1RB) SET 2 (Unfold)												
Front side	100	QPSK 1_137	633334/3500	100%	0.238	0.102	-0.11	26.12	26.50	1.091	0.260	22.1
Back side	100	QPSK 1_137	633334/3500	100%	0.258	0.122	-0.19	26.12	26.50	1.091	0.281	22.1
Body worn Test data (Separate 15mm 50%RB) SET 2 (Unfold)												
Front side	100	QPSK 135_69	633334/3500	100%	0.232	0.102	-0.04	26.08	26.50	1.102	0.256	22.1
Back side	100	QPSK 135_69	633334/3500	100%	0.238	0.113	0.13	26.08	26.50	1.102	0.262	22.1
Hotspot Test data (Separate 10mm 1RB) SET 3 (Fold)												
Front side	100	QPSK 1_137	633334/3500	100%	0.116	0.052	0.18	24.14	24.50	1.086	0.126	22.1
Back side	100	QPSK 1_137	633334/3500	100%	0.319	0.145	0.17	24.14	24.50	1.086	0.346	22.1
Left side	100	QPSK 1_137	633334/3500	100%	0.547	0.234	0.11	24.14	24.50	1.086	0.594	22.1
Right side	100	QPSK 1_137	633334/3500	100%	0.055	0.025	0.01	24.14	24.50	1.086	0.060	22.1
Top side	100	QPSK 1_137	633334/3500	100%	0.147	0.065	0.03	24.14	24.50	1.086	0.160	22.1
Bottom side	100	QPSK 1_137	633334/3500	100%	0.099	0.050	-0.13	24.14	24.50	1.086	0.108	22.1



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Hotspot Test data (Separate 10mm 50%RB) SET3 (Fold)												
Front side	100	QPSK 135_69	633334/3500	100%	0.131	0.058	0.19	23.98	24.50	1.127	0.148	22.1
Back side	100	QPSK 135_69	633334/3500	100%	0.360	0.163	-0.18	23.98	24.50	1.127	0.406	22.1
Left side	100	QPSK 135_69	633334/3500	100%	0.609	0.257	-0.13	23.98	24.50	1.127	0.686	22.1
Right side	100	QPSK 135_69	633334/3500	100%	0.060	0.027	-0.05	23.98	24.50	1.127	0.068	22.1
Top side	100	QPSK 135_69	633334/3500	100%	0.150	0.067	0.01	23.98	24.50	1.127	0.169	22.1
Bottom side	100	QPSK 135_69	633334/3500	100%	0.093	0.048	0.01	23.98	24.50	1.127	0.105	22.1
Hotspot Test data (Separate 10mm 1RB) SET 3 (Unfold)												
Front side	100	QPSK 1_137	633334/3500	100%	0.232	0.098	0.10	24.14	24.50	1.086	0.252	22.1
Back side	100	QPSK 1_137	633334/3500	100%	0.251	0.115	-0.09	24.14	24.50	1.086	0.273	22.1
Left side	100	QPSK 1_137	633334/3500	100%	0.599	0.267	0.05	24.14	24.50	1.086	0.651	22.1
Right side	100	QPSK 1_137	633334/3500	100%	0.043	0.019	-0.05	24.14	24.50	1.086	0.047	22.1
Top side	100	QPSK 1_137	633334/3500	100%	0.080	0.041	0.11	24.14	24.50	1.086	0.087	22.1
Bottom side	100	QPSK 1_137	633334/3500	100%	0.077	0.038	0.17	24.14	24.50	1.086	0.084	22.1
Hotspot Test data (Separate 10mm 50%RB) SET 3 (Unfold)												
Front side	100	QPSK 135_69	633334/3500	100%	0.248	0.104	0.13	23.98	24.50	1.127	0.279	22.1
Back side	100	QPSK 135_69	633334/3500	100%	0.243	0.111	-0.06	23.98	24.50	1.127	0.274	22.1
Left side	100	QPSK 135_69	633334/3500	100%	0.622	0.275	-0.18	23.98	24.50	1.127	0.701	22.1
Right side	100	QPSK 135_69	633334/3500	100%	0.046	0.020	0.04	23.98	24.50	1.127	0.052	22.1
Top side	100	QPSK 135_69	633334/3500	100%	0.084	0.043	0.14	23.98	24.50	1.127	0.095	22.1
Bottom side	100	QPSK 135_69	633334/3500	100%	0.066	0.033	0.02	23.98	24.50	1.127	0.074	22.1
Hotspot Evaluate data (Separate 10mm 1RB) SET3 (Fold) with ENDC												
Front side	100	QPSK 1_137	633334/3500	100%	0.116	0.052	0.18	24.14	21.50	0.545	0.063	22.1
Back side	100	QPSK 1_137	633334/3500	100%	0.319	0.145	0.17	24.14	21.50	0.545	0.174	22.1
Left side	100	QPSK 1_137	633334/3500	100%	0.547	0.234	0.11	24.14	21.50	0.545	0.298	22.1
Right side	100	QPSK 1_137	633334/3500	100%	0.055	0.025	0.01	24.14	21.50	0.545	0.030	22.1
Top side	100	QPSK 1_137	633334/3500	100%	0.147	0.065	0.03	24.14	21.50	0.545	0.080	22.1
Bottom side	100	QPSK 1_137	633334/3500	100%	0.099	0.050	-0.13	24.14	21.50	0.545	0.054	22.1
Hotspot Evaluate data (Separate 10mm 50%RB) SET3 (Fold) with ENDC												
Front side	100	QPSK 135_69	633334/3500	100%	0.131	0.058	0.19	23.98	21.50	0.565	0.074	22.1
Back side	100	QPSK 135_69	633334/3500	100%	0.360	0.163	-0.18	23.98	21.50	0.565	0.203	22.1
Left side	100	QPSK 135_69	633334/3500	100%	0.609	0.257	-0.13	23.98	21.50	0.565	0.344	22.1
Right side	100	QPSK 135_69	633334/3500	100%	0.060	0.027	-0.05	23.98	21.50	0.565	0.034	22.1
Top side	100	QPSK 135_69	633334/3500	100%	0.150	0.067	0.01	23.98	21.50	0.565	0.085	22.1
Bottom side	100	QPSK 135_69	633334/3500	100%	0.093	0.048	0.01	23.98	21.50	0.565	0.053	22.1
Hotspot Evaluate data (Separate 10mm 1RB) SET3 (Unfold) with ENDC												
Front side	100	QPSK 1_137	633334/3500	100%	0.232	0.098	0.10	24.14	21.50	0.545	0.126	22.1
Back side	100	QPSK 1_137	633334/3500	100%	0.251	0.115	-0.09	24.14	21.50	0.545	0.137	22.1
Left side	100	QPSK 1_137	633334/3500	100%	0.599	0.267	0.05	24.14	21.50	0.545	0.326	22.1
Right side	100	QPSK 1_137	633334/3500	100%	0.043	0.019	-0.05	24.14	21.50	0.545	0.023	22.1
Top side	100	QPSK 1_137	633334/3500	100%	0.080	0.041	0.11	24.14	21.50	0.545	0.044	22.1
Bottom side	100	QPSK 1_137	633334/3500	100%	0.077	0.038	0.17	24.14	21.50	0.545	0.042	22.1
Hotspot Evaluate data (Separate 10mm 50%RB) SET3 (Unfold) with ENDC												
Front side	100	QPSK 135_69	633334/3500	100%	0.248	0.104	0.13	23.98	21.50	0.565	0.140	22.1



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Back side	100	QPSK 135_69	633334/3500	100%	0.243	0.111	-0.06	23.98	21.50	0.565	0.137	22.1
Left side	100	QPSK 135_69	633334/3500	100%	0.622	0.275	-0.18	23.98	21.50	0.565	0.351	22.1
Right side	100	QPSK 135_69	633334/3500	100%	0.046	0.020	0.04	23.98	21.50	0.565	0.026	22.1
Top side	100	QPSK 135_69	633334/3500	100%	0.084	0.043	0.14	23.98	21.50	0.565	0.047	22.1
Bottom side	100	QPSK 135_69	633334/3500	100%	0.066	0.033	0.02	23.98	21.50	0.565	0.037	22.1



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8.3.16 SAR Result of NR Band n77(3700-3980)

Ant3 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) SET1												
Left cheek	100	QPSK 1_137	654800/3822	100%	0.860	0.381	0.13	21.86	22.00	1.033	0.888	22.1
Left tilted	100	QPSK 1_137	654800/3822	100%	0.185	0.086	-0.03	21.86	22.00	1.033	0.191	22.1
Right cheek	100	QPSK 1_137	654800/3822	100%	0.445	0.221	0.12	21.86	22.00	1.033	0.460	22.1
Right tilted	100	QPSK 1_137	654800/3822	100%	0.256	0.113	0.13	21.86	22.00	1.033	0.264	22.1
Left cheek	100	QPSK 1_137	657200/3858	100%	0.992	0.454	-0.08	21.70	22.00	1.072	1.063	22.1
Left cheek Repeated	100	QPSK 1_137	657200/3858	100%	0.875	0.431	-0.08	21.70	22.00	1.072	0.938	22.1
Left cheek with Battery2#	100	QPSK 1_137	657200/3858	100%	0.869	0.425	0.04	21.70	22.00	1.072	0.931	22.1
Right cheek	100	QPSK 1_137	657200/3858	100%	0.484	0.241	0.05	21.70	22.00	1.072	0.519	22.1
Head Test Data (50%RB) SET1												
Left cheek	100	QPSK 135_69	654800/3822	100%	0.909	0.480	-0.16	21.82	22.00	1.042	0.947	22.1
Left tilted	100	QPSK 135_69	654800/3822	100%	0.202	0.094	-0.06	21.82	22.00	1.042	0.211	22.1
Right cheek	100	QPSK 135_69	654800/3822	100%	0.459	0.228	0.12	21.82	22.00	1.042	0.478	22.1
Right tilted	100	QPSK 135_69	654800/3822	100%	0.279	0.124	0.14	21.82	22.00	1.042	0.291	22.1
Left cheek	100	QPSK 135_69	657200/3858	100%	0.892	0.389	0.15	21.53	22.00	1.114	0.994	22.1
Right cheek	100	QPSK 135_69	657200/3858	100%	0.470	0.232	-0.01	21.53	22.00	1.114	0.524	22.1
Head Test Data (100%RB) SET1												
Left cheek	100	QPSK 270_0	654800/3822	100%	0.832	0.374	-0.09	20.84	21.00	1.038	0.863	22.1
Head Evaluate Data (1RB) SET1 with ENDC												
Left cheek	100	QPSK 1_137	654800/3822	100%	0.860	0.381	0.13	21.86	19.50	0.581	0.499	22.1
Left tilted	100	QPSK 1_137	654800/3822	100%	0.185	0.086	-0.03	21.86	19.50	0.581	0.107	22.1
Right cheek	100	QPSK 1_137	654800/3822	100%	0.445	0.221	0.12	21.86	19.50	0.581	0.258	22.1
Right tilted	100	QPSK 1_137	654800/3822	100%	0.256	0.113	0.13	21.86	19.50	0.581	0.149	22.1
Left cheek	100	QPSK 1_137	657200/3858	100%	0.992	0.454	-0.08	21.70	19.50	0.603	0.598	22.1
Left cheek Repeated	100	QPSK 1_137	657200/3858	100%	0.875	0.431	-0.08	21.70	19.50	0.603	0.527	22.1
Right cheek	100	QPSK 1_137	657200/3858	100%	0.484	0.241	0.05	21.70	19.50	0.603	0.292	22.1
Head Evaluate Data (50%RB) SET1 with ENDC												
Left cheek	100	QPSK 135_69	654800/3822	100%	0.909	0.480	-0.16	21.82	19.50	0.586	0.533	22.1
Left tilted	100	QPSK 135_69	654800/3822	100%	0.202	0.094	-0.06	21.82	19.50	0.586	0.118	22.1
Right cheek	100	QPSK 135_69	654800/3822	100%	0.459	0.228	0.12	21.82	19.50	0.586	0.269	22.1
Right tilted	100	QPSK 135_69	654800/3822	100%	0.279	0.124	0.14	21.82	19.50	0.586	0.164	22.1
Left cheek	100	QPSK 135_69	657200/3858	100%	0.892	0.389	0.15	21.53	19.50	0.627	0.559	22.1
Right cheek	100	QPSK 135_69	657200/3858	100%	0.470	0.232	-0.01	21.53	19.50	0.627	0.295	22.1
Head Evaluate Data (100%RB) SET1 with ENDC												
Left cheek	100	QPSK 270_0	654800/3822	100%	0.832	0.374	-0.09	20.84	18.50	0.583	0.485	22.1
Body worn Test data (Separate 15mm 1RB) SET2 (Fold)												
Front side	100	QPSK 1_137	654800/3822	100%	0.202	0.095	0.16	26.24	26.50	1.062	0.214	22.1
Back side	100	QPSK 1_137	654800/3822	100%	0.541	0.253	-0.14	26.24	26.50	1.062	0.574	22.1
Back side	100	QPSK 1_137	657200/3858	100%	0.693	0.324	0.00	26.11	26.50	1.094	0.758	22.1



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Back side with Battery2#	100	QPSK 1_137	657200/3858	100%	0.678	0.316	-0.01	26.11	26.50	1.094	0.742	22.1
Body worn Test data (Separate 15mm 50%RB) SET2 (Fold)												
Front side	100	QPSK 135_69	654800/3822	100%	0.170	0.079	-0.14	26.09	26.50	1.099	0.187	22.1
Back side	100	QPSK 135_69	654800/3822	100%	0.554	0.254	-0.09	26.09	26.50	1.099	0.609	22.1
Back side	100	QPSK 135_69	657200/3858	100%	0.655	0.312	-0.01	26.04	26.50	1.112	0.728	22.1
Body worn Test data (Separate 15mm 1RB) SET2 (Unfold)												
Front side	100	QPSK 1_137	654800/3822	100%	0.346	0.149	-0.02	26.24	26.50	1.062	0.367	22.1
Back side	100	QPSK 1_137	654800/3822	100%	0.375	0.178	0.14	26.24	26.50	1.062	0.398	22.1
Body worn Test data (Separate 15mm 50%RB) SET2 (Unfold)												
Front side	100	QPSK 135_69	654800/3822	100%	0.337	0.148	0.18	26.09	26.50	1.099	0.370	22.1
Back side	100	QPSK 135_69	654800/3822	100%	0.347	0.164	0.13	26.09	26.50	1.099	0.381	22.1
Hotspot Test data (Separate 10mm 1RB) SET3 (Fold)												
Front side	100	QPSK 1_137	654800/3822	100%	0.174	0.078	0.19	24.33	24.50	1.040	0.181	22.1
Back side	100	QPSK 1_137	654800/3822	100%	0.479	0.218	0.14	24.33	24.50	1.040	0.498	22.1
Left side	100	QPSK 1_137	654800/3822	100%	0.822	0.351	0.19	24.33	24.50	1.040	0.855	22.1
Right side	100	QPSK 1_137	654800/3822	100%	0.083	0.038	0.12	24.33	24.50	1.040	0.086	22.1
Top side	100	QPSK 1_137	654800/3822	100%	0.220	0.097	-0.17	24.33	24.50	1.040	0.229	22.1
Bottom side	100	QPSK 1_137	654800/3822	100%	0.149	0.075	0.16	24.33	24.50	1.040	0.155	22.1
Left side	100	QPSK 1_137	657200/3858	100%	1.070	0.460	-0.13	24.16	24.50	1.081	1.157	22.1
Back side	100	QPSK 1_137	657200/3858	100%	0.627	0.274	-0.13	24.16	24.50	1.081	0.678	22.1
Hotspot Test data (Separate 10mm 50%RB) SET3 (Fold)												
Front side	100	QPSK 135_69	654800/3822	100%	0.197	0.087	0.09	24.28	24.50	1.052	0.207	22.1
Back side	100	QPSK 135_69	654800/3822	100%	0.541	0.244	-0.10	24.28	24.50	1.052	0.569	22.1
Left side	100	QPSK 135_69	654800/3822	100%	0.915	0.386	0.00	24.28	24.50	1.052	0.963	22.1
Right side	100	QPSK 135_69	654800/3822	100%	0.090	0.041	-0.15	24.28	24.50	1.052	0.095	22.1
Top side	100	QPSK 135_69	654800/3822	100%	0.225	0.100	0.10	24.28	24.50	1.052	0.237	22.1
Bottom side	100	QPSK 135_69	654800/3822	100%	0.139	0.072	-0.09	24.28	24.50	1.052	0.146	22.1
Left side	100	QPSK 135_69	657200/3858	100%	1.000	0.456	-0.12	23.99	24.50	1.125	1.125	22.1
Back side	100	QPSK 135_69	657200/3858	100%	0.592	0.266	-0.17	23.99	24.50	1.125	0.666	22.1
Hotspot Test data (Separate 10mm 100%RB) SET3 (Fold)												
Left side	100	QPSK 270_0	654800/3822	100%	0.884	0.385	-0.11	23.30	23.50	1.047	0.926	22.1
Hotspot Test data (Separate 10mm 1RB) SET3 (Unfold)												
Front side	100	QPSK 1_137	654800/3822	100%	0.348	0.147	-0.07	24.33	24.50	1.040	0.362	22.1
Back side	100	QPSK 1_137	654800/3822	100%	0.377	0.172	-0.14	24.33	24.50	1.040	0.392	22.1
Left side	100	QPSK 1_137	654800/3822	100%	0.899	0.401	-0.09	24.33	24.50	1.040	0.935	22.1
Right side	100	QPSK 1_137	654800/3822	100%	0.064	0.028	0.14	24.33	24.50	1.040	0.067	22.1
Top side	100	QPSK 1_137	654800/3822	100%	0.120	0.062	0.18	24.33	24.50	1.040	0.125	22.1
Bottom side	100	QPSK 1_137	654800/3822	100%	0.116	0.057	0.17	24.33	24.50	1.040	0.121	22.1
Left side	100	QPSK 1_137	657200/3858	100%	1.100	0.499	-0.05	24.16	24.50	1.081	1.190	22.1
Left side Repeated	100	QPSK 1_137	657200/3858	100%	0.998	0.468	-0.05	24.16	24.50	1.081	1.079	22.1
Left side with Battery2#	100	QPSK 1_137	657200/3858	100%	0.986	0.452	-0.06	24.16	24.50	1.081	1.066	22.1
Hotspot Test data (Separate 10mm 50%RB) SET3 (Unfold)												
Front side	100	QPSK 135_69	654800/3822	100%	0.372	0.156	-0.06	24.28	24.50	1.052	0.391	22.1
Back side	100	QPSK 135_69	654800/3822	100%	0.365	0.167	-0.04	24.28	24.50	1.052	0.384	22.1



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Left side	100	QPSK 135_69	654800/3822	100%	0.934	0.413	0.06	24.28	24.50	1.052	0.983	22.1
Right side	100	QPSK 135_69	654800/3822	100%	0.069	0.030	0.05	24.28	24.50	1.052	0.073	22.1
Top side	100	QPSK 135_69	654800/3822	100%	0.126	0.064	0.17	24.28	24.50	1.052	0.133	22.1
Bottom side	100	QPSK 135_69	654800/3822	100%	0.099	0.049	0.04	24.28	24.50	1.052	0.104	22.1
Left side	100	QPSK 135_69	657200/3858	100%	1.020	0.460	0.14	23.99	24.50	1.125	1.147	22.1
Hotspot Test data (Separate 10mm 100%RB) SET3 (Unfold)												
Left side	100	QPSK 270_0	654800/3822	100%	0.892	0.401	0.03	23.30	23.50	1.047	0.934	22.1
Hotspot Evaluate data (Separate 10mm 1RB) SET3 (Fold) with ENDC												
Front side	100	QPSK 1_137	654800/3822	100%	0.174	0.078	0.19	24.33	21.50	0.521	0.091	22.1
Back side	100	QPSK 1_137	654800/3822	100%	0.479	0.218	0.14	24.33	21.50	0.521	0.250	22.1
Left side	100	QPSK 1_137	654800/3822	100%	0.822	0.351	0.19	24.33	21.50	0.521	0.428	22.1
Right side	100	QPSK 1_137	654800/3822	100%	0.083	0.038	0.12	24.33	21.50	0.521	0.043	22.1
Top side	100	QPSK 1_137	654800/3822	100%	0.220	0.097	-0.17	24.33	21.50	0.521	0.115	22.1
Bottom side	100	QPSK 1_137	654800/3822	100%	0.149	0.075	0.16	24.33	21.50	0.521	0.078	22.1
Left side	100	QPSK 1_137	657200/3858	100%	1.070	0.460	-0.13	24.16	21.50	0.542	0.580	22.1
Back side	100	QPSK 1_137	657200/3858	100%	0.627	0.274	-0.13	24.16	21.50	0.542	0.340	22.1
Hotspot Evaluate data (Separate 10mm 50%RB) SET3 (Fold) with ENDC												
Front side	100	QPSK 135_69	654800/3822	100%	0.197	0.087	0.09	24.28	21.50	0.527	0.104	22.1
Back side	100	QPSK 135_69	654800/3822	100%	0.541	0.244	-0.10	24.28	21.50	0.527	0.285	22.1
Left side	100	QPSK 135_69	654800/3822	100%	0.915	0.386	0.00	24.28	21.50	0.527	0.482	22.1
Right side	100	QPSK 135_69	654800/3822	100%	0.090	0.041	-0.15	24.28	21.50	0.527	0.047	22.1
Top side	100	QPSK 135_69	654800/3822	100%	0.225	0.100	0.10	24.28	21.50	0.527	0.119	22.1
Bottom side	100	QPSK 135_69	654800/3822	100%	0.139	0.072	-0.09	24.28	21.50	0.527	0.073	22.1
Left side	100	QPSK 135_69	657200/3858	100%	1.000	0.456	-0.12	23.99	21.50	0.564	0.564	22.1
Back side	100	QPSK 135_69	657200/3858	100%	0.592	0.266	-0.17	23.99	21.50	0.564	0.334	22.1
Hotspot Evaluate data (Separate 10mm 100%RB) SET3 (Fold) with ENDC												
Left side	100	QPSK 270_0	654800/3822	100%	0.884	0.385	-0.11	23.30	20.50	0.525	0.464	22.1
Hotspot Evaluate data (Separate 10mm 1RB) SET3 (Unfold) with ENDC												
Front side	100	QPSK 1_137	654800/3822	100%	0.348	0.147	-0.07	24.33	21.50	0.521	0.181	22.1
Back side	100	QPSK 1_137	654800/3822	100%	0.377	0.172	-0.14	24.33	21.50	0.521	0.196	22.1
Left side	100	QPSK 1_137	654800/3822	100%	0.899	0.401	-0.09	24.33	21.50	0.521	0.469	22.1
Right side	100	QPSK 1_137	654800/3822	100%	0.064	0.028	0.14	24.33	21.50	0.521	0.033	22.1
Top side	100	QPSK 1_137	654800/3822	100%	0.120	0.062	0.18	24.33	21.50	0.521	0.063	22.1
Bottom side	100	QPSK 1_137	654800/3822	100%	0.116	0.057	0.17	24.33	21.50	0.521	0.060	22.1
Left side	100	QPSK 1_137	657200/3858	100%	1.100	0.499	-0.05	24.16	21.50	0.542	0.596	22.1
Left side Repeated	100	QPSK 1_137	657200/3858	100%	0.998	0.468	-0.05	24.16	21.50	0.542	0.541	22.1
Hotspot Evaluate data (Separate 10mm 50%RB) SET3 (Unfold) with ENDC												
Front side	100	QPSK 135_69	654800/3822	100%	0.372	0.156	-0.06	24.28	21.50	0.527	0.196	22.1
Back side	100	QPSK 135_69	654800/3822	100%	0.365	0.167	-0.04	24.28	21.50	0.527	0.192	22.1
Left side	100	QPSK 135_69	654800/3822	100%	0.934	0.413	0.06	24.28	21.50	0.527	0.492	22.1
Right side	100	QPSK 135_69	654800/3822	100%	0.069	0.030	0.05	24.28	21.50	0.527	0.036	22.1
Top side	100	QPSK 135_69	654800/3822	100%	0.126	0.064	0.17	24.28	21.50	0.527	0.066	22.1
Bottom side	100	QPSK 135_69	654800/3822	100%	0.099	0.049	0.04	24.28	21.50	0.527	0.052	22.1
Left side	100	QPSK 135_69	657200/3858	100%	1.020	0.460	0.14	23.99	21.50	0.564	0.575	22.1



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Hotspot Evaluate data (Separate 10mm 100%RB) SET3 (Unfold) with ENDC												
Left side	100	QPSK 270_0	654800/3822	100%	0.892	0.401	0.03	23.30	20.50	0.525	0.468	22.1

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Left cheek	657200/3858	0.992	0.975	1.017	N/A	N/A
Left side 10mm	657200/3858	1.100	0.998	1.102	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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8.3.17 SAR Result of WIFI 2.4G

Ant5 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 SET 0												
Left cheek	802.11b	6/2437	99.64%	1.004	0.272	0.156	0.16	18.37	18.50	1.030	0.281	22.1
Left tilted	802.11b	6/2437	99.64%	1.004	0.135	0.074	-0.17	18.37	18.50	1.030	0.140	22.1
Right cheek	802.11b	6/2437	99.64%	1.004	0.388	0.201	-0.03	18.37	18.50	1.030	0.401	22.1
Right tilted	802.11b	6/2437	99.64%	1.004	0.117	0.065	0.06	18.37	18.50	1.030	0.121	22.1
Right cheek with Battery2#	802.11b	6/2437	99.64%	1.004	0.364	0.168	-0.07	18.37	18.50	1.030	0.376	22.1
Head Evaluate Data SET 2												
Left cheek	802.11b	6/2437	99.64%	1.004	0.272	0.156	0.12	18.37	11.50	0.206	0.056	22.1
Left tilted	802.11b	6/2437	99.64%	1.004	0.135	0.074	-0.19	18.37	11.50	0.206	0.028	22.1
Right cheek	802.11b	6/2437	99.64%	1.004	0.388	0.201	-0.03	18.37	11.50	0.206	0.080	22.1
Right tilted	802.11b	6/2437	99.64%	1.004	0.117	0.065	0.17	18.37	11.50	0.206	0.024	22.1
Body worn Test data (Separate 15mm) Fold SET1												
Front side	802.11b	6/2437	99.64%	1.004	0.011	0.003	-0.03	18.37	18.50	1.030	0.011	22.1
Back side	802.11b	6/2437	99.64%	1.004	0.085	0.051	-0.06	18.37	18.50	1.030	0.088	22.1
Back side with Battery2#	802.11b	6/2437	99.64%	1.004	0.072	0.042	0.02	18.37	18.50	1.030	0.074	22.1
Body worn Test data (Separate 15mm) UnFold SET1												
Front side	802.11b	6/2437	99.64%	1.004	0.012	0.004	-0.03	18.37	18.50	1.030	0.012	22.1
Back side	802.11b	6/2437	99.64%	1.004	0.061	0.047	-0.15	18.37	18.50	1.030	0.063	22.1
Hotspot Test data (Separate 10mm) Fold SET3												
Front side	802.11b	6/2437	99.64%	1.004	0.028	0.010	0.18	15.48	15.80	1.076	0.030	22.1
Back side	802.11b	6/2437	99.64%	1.004	0.079	0.040	-0.17	15.48	15.80	1.076	0.085	22.1
Left side	802.11b	6/2437	99.64%	1.004	0.018	0.005	-0.03	15.48	15.80	1.076	0.019	22.1
Right side	802.11b	6/2437	99.64%	1.004	0.068	0.030	-0.06	15.48	15.80	1.076	0.073	22.1
Top side	802.11b	6/2437	99.64%	1.004	0.062	0.031	0.18	15.48	15.80	1.076	0.067	22.1
Bottom side	802.11b	6/2437	99.64%	1.004	0.026	0.008	-0.06	15.48	15.80	1.076	0.028	22.1
Hotspot Test data (Separate 10mm) UnFold SET3												
Front side	802.11b	6/2437	99.64%	1.004	0.032	0.012	0.06	15.48	15.80	1.076	0.035	22.1
Back side	802.11b	6/2437	99.64%	1.004	0.056	0.032	0.13	15.48	15.80	1.076	0.060	22.1
Left side	802.11b	6/2437	99.64%	1.004	0.049	0.014	-0.07	15.48	15.80	1.076	0.053	22.1
Right side	802.11b	6/2437	99.64%	1.004	0.177	0.075	0.08	15.48	15.80	1.076	0.191	22.1
Right side with Battery2#	802.11b	6/2437	99.64%	1.004	0.132	0.062	-0.09	15.48	15.80	1.076	0.143	22.1
Top side	802.11b	6/2437	99.64%	1.004	0.021	0.006	0.12	15.48	15.80	1.076	0.023	22.1
Bottom side	802.11b	6/2437	99.64%	1.004	0.056	0.015	-0.01	15.48	15.80	1.076	0.060	22.1

8.3.18 SAR Result of WIFI 5G

Ant5 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-1 SET0												
Left cheek	802.11a	36/5180	97.55%	1.025	0.090	0.018	-0.01	14.96	16.00	1.271	0.117	22.1
Left tilted	802.11a	36/5180	97.55%	1.025	0.059	0.015	-0.15	14.96	16.00	1.271	0.077	22.1
Right cheek	802.11a	36/5180	97.55%	1.025	0.065	0.027	-0.04	14.96	16.00	1.271	0.085	22.1
Right tilted	802.11a	36/5180	97.55%	1.025	0.044	0.013	-0.10	14.96	16.00	1.271	0.057	22.1
Head Test Data of U-NII-2A SET0												
Left cheek	802.11a	64/5320	97.55%	1.025	0.163	0.032	0.18	15.20	15.50	1.072	0.179	22.1
Left tilted	802.11a	64/5320	97.55%	1.025	0.133	0.032	-0.17	15.20	15.50	1.072	0.146	22.1
Right cheek	802.11a	64/5320	97.55%	1.025	0.088	0.034	0.19	15.20	15.50	1.072	0.097	22.1
Right tilted	802.11a	64/5320	97.55%	1.025	0.052	0.018	0.18	15.20	15.50	1.072	0.057	22.1
Head Test Data of U-NII-2C SET0												
Left cheek	802.11a	100/5500	97.55%	1.025	0.108	0.030	-0.13	15.85	16.00	1.035	0.115	22.1
Left tilted	802.11a	100/5500	97.55%	1.025	0.102	0.019	-0.07	15.85	16.00	1.035	0.108	22.1
Right cheek	802.11a	100/5500	97.55%	1.025	0.134	0.046	0.11	15.85	16.00	1.035	0.142	22.1
Right tilted	802.11a	100/5500	97.55%	1.025	0.049	0.013	0.02	15.85	16.00	1.035	0.052	22.1
Head Test Data of U-NII-3 SET0												
Left cheek	802.11a	149/5745	97.55%	1.025	0.159	0.046	-0.19	15.51	16.00	1.119	0.182	22.1
Left tilted	802.11a	149/5745	97.55%	1.025	0.068	0.019	0.10	15.51	16.00	1.119	0.078	22.1
Right cheek	802.11a	149/5745	97.55%	1.025	0.215	0.077	0.07	15.51	16.00	1.119	0.247	22.1
Right cheek with Battery2#	802.11a	149/5745	97.55%	1.025	0.186	0.062	-0.01	15.51	16.00	1.119	0.213	22.1
Right tilted	802.11a	149/5745	97.55%	1.025	0.070	0.026	0.17	15.51	16.00	1.119	0.080	22.1
Head Evaluate Data of U-NII-1 SET2												
Left cheek	802.11a	36/5180	97.55%	1.025	0.090	0.018	-0.01	14.96	11.00	0.402	0.037	22.1
Left tilted	802.11a	36/5180	97.55%	1.025	0.059	0.015	-0.15	14.96	11.00	0.402	0.024	22.1
Right cheek	802.11a	36/5180	97.55%	1.025	0.065	0.027	-0.04	14.96	11.00	0.402	0.027	22.1
Right tilted	802.11a	36/5180	97.55%	1.025	0.044	0.013	-0.10	14.96	11.00	0.402	0.018	22.1
Head Evaluate Data of U-NII-2A SET2												
Left cheek	802.11a	64/5320	97.55%	1.025	0.163	0.032	0.18	15.20	11.00	0.380	0.064	22.1
Left tilted	802.11a	64/5320	97.55%	1.025	0.133	0.032	-0.17	15.20	11.00	0.380	0.052	22.1
Right cheek	802.11a	64/5320	97.55%	1.025	0.088	0.034	0.19	15.20	11.00	0.380	0.034	22.1
Right tilted	802.11a	64/5320	97.55%	1.025	0.052	0.018	0.18	15.20	11.00	0.380	0.020	22.1
Head Evaluate Data of U-NII-2C SET2												
Left cheek	802.11a	100/5500	97.55%	1.025	0.108	0.030	-0.13	15.85	11.00	0.327	0.036	22.1
Left tilted	802.11a	100/5500	97.55%	1.025	0.102	0.019	-0.07	15.85	11.00	0.327	0.034	22.1
Right cheek	802.11a	100/5500	97.55%	1.025	0.134	0.046	0.11	15.85	11.00	0.327	0.045	22.1
Right tilted	802.11a	100/5500	97.55%	1.025	0.049	0.013	0.02	15.85	11.00	0.327	0.016	22.1
Head Evaluate Data of U-NII-3 SET2												
Left cheek	802.11a	149/5745	97.55%	1.025	0.159	0.046	-0.19	15.51	11.00	0.354	0.058	22.1
Left tilted	802.11a	149/5745	97.55%	1.025	0.068	0.019	0.10	15.51	11.00	0.354	0.025	22.1



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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
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Right cheek	802.11a	149/5745	97.55%	1.025	0.215	0.077	0.07	15.51	11.00	0.354	0.078	22.1
Right tilted	802.11a	149/5745	97.55%	1.025	0.070	0.026	0.17	15.51	11.00	0.354	0.025	22.1
Body worn Test data of U-NII-2A (Separate 15mm) Fold SET1												
Front side	802.11a	64/5320	97.55%	1.025	0.148	0.033	-0.11	18.16	19.00	1.213	0.184	22.1
Back side	802.11a	64/5320	97.55%	1.025	0.395	0.164	-0.06	18.16	19.00	1.213	0.491	22.1
Back side with Battery2#	802.11a	64/5320	97.55%	1.025	0.374	0.151	-0.01	18.16	19.00	1.213	0.465	22.1
Body worn Test data of U-NII-2C (Separate 15mm) Fold SET1												
Front side	802.11a	100/5500	97.55%	1.025	0.187	0.038	-0.06	18.85	19.00	1.035	0.198	22.1
Back side	802.11a	100/5500	97.55%	1.025	0.259	0.115	-0.19	18.85	19.00	1.035	0.275	22.1
Body worn Test data of U-NII-3 (Separate 15mm) Fold SET1												
Front side	802.11a	149/5745	97.55%	1.025	0.215	0.059	0.00	18.47	19.00	1.130	0.249	22.1
Back side	802.11a	149/5745	97.55%	1.025	0.266	0.108	0.16	18.47	19.00	1.130	0.308	22.1
Body worn Test data of U-NII-2A (Separate 15mm) UnFold SET1												
Front side	802.11a	64/5320	97.55%	1.025	0.238	0.069	-0.11	18.16	19.00	1.213	0.296	22.1
Back side	802.11a	64/5320	97.55%	1.025	0.248	0.102	-0.05	18.16	19.00	1.213	0.308	22.1
Body worn Test data of U-NII-2C (Separate 15mm) UnFold SET1												
Front side	802.11a	100/5500	97.55%	1.025	0.154	0.038	0.14	18.85	19.00	1.035	0.163	22.1
Back side	802.11a	100/5500	97.55%	1.025	0.269	0.115	0.16	18.85	19.00	1.035	0.285	22.1
Body worn Test data of U-NII-3 (Separate 15mm) UnFold SET1												
Front side	802.11a	149/5745	97.55%	1.025	0.212	0.056	0.05	18.47	19.00	1.130	0.246	22.1
Back side	802.11a	149/5745	97.55%	1.025	0.266	0.061	-0.08	18.47	19.00	1.130	0.308	22.1
Body worn Evaluate data of U-NII-2A (Separate 15mm) Fold SET4												
Front side	802.11a	64/5320	97.55%	1.025	0.148	0.033	-0.11	18.16	12.00	0.242	0.037	22.1
Back side	802.11a	64/5320	97.55%	1.025	0.395	0.164	-0.06	18.16	12.00	0.242	0.098	22.1
Body worn Evaluate data of U-NII-2C (Separate 15mm) Fold SET4												
Front side	802.11a	100/5500	97.55%	1.025	0.187	0.038	-0.06	18.85	12.00	0.207	0.040	22.1
Back side	802.11a	100/5500	97.55%	1.025	0.259	0.115	-0.19	18.85	12.00	0.207	0.055	22.1
Body worn Evaluate data of U-NII-3 (Separate 15mm) Fold SET4												
Front side	802.11a	149/5745	97.55%	1.025	0.215	0.059	0.00	18.47	12.00	0.225	0.050	22.1
Back side	802.11a	149/5745	97.55%	1.025	0.266	0.108	0.16	18.47	12.00	0.225	0.061	22.1
Body worn Evaluate data of U-NII-2A (Separate 15mm) UnFold SET4												
Front side	802.11a	64/5320	97.55%	1.025	0.238	0.069	-0.11	18.16	12.00	0.242	0.059	22.1
Back side	802.11a	64/5320	97.55%	1.025	0.248	0.102	-0.05	18.16	12.00	0.242	0.062	22.1
Body worn Evaluate data of U-NII-2C (Separate 15mm) UnFold SET4												
Front side	802.11a	100/5500	97.55%	1.025	0.154	0.038	0.14	18.85	12.00	0.207	0.033	22.1
Back side	802.11a	100/5500	97.55%	1.025	0.269	0.115	0.16	18.85	12.00	0.207	0.057	22.1
Body worn Evaluate data of U-NII-3 (Separate 15mm) UnFold SET4												
Front side	802.11a	149/5745	97.55%	1.025	0.212	0.056	0.05	18.47	12.00	0.225	0.049	22.1
Back side	802.11a	149/5745	97.55%	1.025	0.266	0.061	-0.08	18.47	12.00	0.225	0.061	22.1
Hotspot Test data of U-NII-1 (Separate 10mm) Fold SET3												
Front side	802.11a	36/5180	97.55%	1.025	0.076	0.037	0.07	13.94	14.50	1.138	0.089	22.1
Back side	802.11a	36/5180	97.55%	1.025	0.098	0.083	-0.03	13.94	14.50	1.138	0.114	22.1
Left side	802.11a	36/5180	97.55%	1.025	0.124	0.032	0.00	13.94	14.50	1.138	0.145	22.1
Right side	802.11a	36/5180	97.55%	1.025	0.158	0.063	0.01	13.94	14.50	1.138	0.184	22.1



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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

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Top side	802.11a	36/5180	97.55%	1.025	0.068	0.024	0.17	13.94	14.50	1.138	0.079	22.1
Bottom side	802.11a	36/5180	97.55%	1.025	0.148	0.035	0.07	13.94	14.50	1.138	0.173	22.1
Hotspot Test data of U-NII-3 (Separate 10mm) Fold SET3												
Front side	802.11a	157/5785	97.48%	1.026	0.078	0.023	-0.01	14.43	14.50	1.016	0.081	22.1
Back side	802.11a	157/5785	97.48%	1.026	0.139	0.098	0.17	14.43	14.50	1.016	0.145	22.1
Left side	802.11a	157/5785	97.48%	1.026	0.209	0.046	-0.16	14.43	14.50	1.016	0.218	22.1
Right side	802.11a	157/5785	97.48%	1.026	0.393	0.127	0.09	14.43	14.50	1.016	0.410	22.1
Right side with Battery2#	802.11a	157/5785	97.48%	1.026	0.378	0.114	-0.01	14.43	14.50	1.016	0.394	22.1
Top side	802.11a	157/5785	97.48%	1.026	0.163	0.039	-0.02	14.43	14.50	1.016	0.170	22.1
Bottom side	802.11a	157/5785	97.48%	1.026	0.094	0.025	-0.07	14.43	14.50	1.016	0.098	22.1
Hotspot Test data of U-NII-1 (Separate 10mm) UnFold SET3												
Front side	802.11a	36/5180	97.55%	1.025	0.073	0.022	0.03	13.94	14.50	1.138	0.085	22.1
Back side	802.11a	36/5180	97.55%	1.025	0.126	0.043	-0.19	13.94	14.50	1.138	0.147	22.1
Left side	802.11a	36/5180	97.55%	1.025	0.134	0.032	0.08	13.94	14.50	1.138	0.156	22.1
Right side	802.11a	36/5180	97.55%	1.025	0.223	0.089	0.19	13.94	14.50	1.138	0.260	22.1
Top side	802.11a	36/5180	97.55%	1.025	0.064	0.015	-0.01	13.94	14.50	1.035	0.142	22.1
Bottom side	802.11a	36/5180	97.55%	1.025	0.085	0.023	0.07	13.94	14.50	1.035	0.052	22.1
Hotspot Test data of U-NII-3 (Separate 10mm) UnFold SET3												
Front side	802.11a	157/5785	97.48%	1.026	0.094	0.019	-0.06	14.43	14.50	1.016	0.098	22.1
Back side	802.11a	157/5785	97.48%	1.026	0.156	0.043	-0.15	14.43	14.50	1.016	0.163	22.1
Left side	802.11a	157/5785	97.48%	1.026	0.105	0.028	-0.01	14.43	14.50	1.016	0.109	22.1
Right side	802.11a	157/5785	97.48%	1.026	0.285	0.100	-0.05	14.43	14.50	1.016	0.297	22.1
Top side	802.11a	157/5785	97.48%	1.026	0.079	0.018	-0.16	14.43	14.50	1.016	0.082	22.1
Bottom side	802.11a	157/5785	97.48%	1.026	0.057	0.016	0.10	14.43	14.50	1.016	0.059	22.1
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)
Product specific 10gSAR Test data of U-NII-2A (Separate 0mm) Fold SET1												
Front side	802.11a	64/5320	97.55%	1.025	0.348	0.812	0.12	18.16	19.00	1.213	1.010	22.1
Back side	802.11a	64/5320	97.55%	1.025	3.920	1.030	-0.16	18.16	19.00	1.213	1.281	22.1
Left side	802.11a	64/5320	97.55%	1.025	0.406	0.081	-0.10	18.16	19.00	1.213	0.101	22.1
Right side	802.11a	64/5320	97.55%	1.025	3.640	0.870	0.07	18.16	19.00	1.213	1.082	22.1
Top side	802.11a	64/5320	97.55%	1.025	0.882	0.203	-0.01	18.16	19.00	1.213	0.253	22.1
Bottom side	802.11a	64/5320	97.55%	1.025	0.365	0.087	-0.08	18.16	19.00	1.213	0.108	22.1
Product specific 10gSAR Test data of U-NII-2C (Separate 0mm) Fold SET1												
Front side	802.11a	100/5500	97.55%	1.025	0.499	0.110	-0.01	18.85	19.00	1.035	0.117	22.1
Back side	802.11a	100/5500	97.55%	1.025	3.100	1.003	0.08	18.85	19.00	1.035	1.064	22.1
Left side	802.11a	100/5500	97.55%	1.025	0.481	0.104	-0.05	18.85	19.00	1.035	0.110	22.1
Right side	802.11a	100/5500	97.55%	1.025	5.650	1.360	0.02	18.85	19.00	1.035	1.443	22.1
Right side with Battery2#	802.11a	100/5500	97.55%	1.025	5.210	1.290	-0.07	18.85	19.00	1.035	1.369	22.1
Top side	802.11a	100/5500	97.55%	1.025	1.030	0.302	-0.04	18.85	19.00	1.035	0.320	22.1
Bottom side	802.11a	100/5500	97.55%	1.025	0.510	0.122	-0.17	18.85	19.00	1.035	0.129	22.1
Product specific 10gSAR Test data of U-NII-2A (Separate 0mm) UnFold SET1												



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Front side	802.11a	64/5320	97.55%	1.025	0.365	0.099	-0.05	18.16	19.00	1.213	0.123	22.1
Back side	802.11a	64/5320	97.55%	1.025	3.530	0.963	-0.10	18.16	19.00	1.213	1.198	22.1
Left side	802.11a	64/5320	97.55%	1.025	0.325	0.081	-0.16	18.16	19.00	1.213	0.101	22.1
Right side	802.11a	64/5320	97.55%	1.025	2.910	0.847	-0.09	18.16	19.00	1.213	1.054	22.1
Top side	802.11a	64/5320	97.55%	1.025	0.464	0.122	-0.11	18.16	19.00	1.213	0.152	22.1
Bottom side	802.11a	64/5320	97.55%	1.025	0.922	0.215	0.18	18.16	19.00	1.213	0.267	22.1
Product specific 10gSAR Test data of U-NII-2C (Separate 0mm) UnFold SET1												
Front side	802.11a	100/5500	97.55%	1.025	0.458	0.116	0.13	18.85	19.00	1.035	0.123	22.1
Back side	802.11a	100/5500	97.55%	1.025	2.790	0.969	-0.02	18.85	19.00	1.035	1.028	22.1
Left side	802.11a	100/5500	97.55%	1.025	0.348	0.081	-0.11	18.85	19.00	1.035	0.086	22.1
Right side	802.11a	100/5500	97.55%	1.025	3.960	1.060	-0.18	18.85	19.00	1.035	1.125	22.1
Top side	802.11a	100/5500	97.55%	1.025	0.319	0.075	0.15	18.85	19.00	1.035	0.080	22.1
Bottom side	802.11a	100/5500	97.55%	1.025	0.406	0.081	-0.01	18.85	19.00	1.035	0.086	22.1



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8.3.19 SAR Result of BT

Ant5 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 SET0												
Left cheek	DH5	39/2441	76.77%	1.303	0.055	0.031	0.06	13.51	14.00	1.119	0.080	22.1
Left tilted	DH5	39/2441	76.77%	1.303	0.023	0.010	0.00	13.51	14.00	1.119	0.034	22.1
Right cheek	DH5	39/2441	76.77%	1.303	0.061	0.030	0.00	13.51	14.00	1.119	0.089	22.1
Right tilted	DH5	39/2441	76.77%	1.303	0.031	0.014	0.12	13.51	14.00	1.119	0.045	22.1
Right cheek with Battery2#	DH5	39/2441	76.77%	1.303	0.049	0.024	0.01	13.51	14.00	1.119	0.071	22.1
Body worn Test data (Separate 15mm) Fold SET 1												
Front side	DH5	39/2441	76.77%	1.303	0.010	0.003	0.17	13.51	14.00	1.119	0.015	22.1
Back side	DH5	39/2441	76.77%	1.303	0.017	0.005	0.04	13.51	14.00	1.119	0.025	22.1
Back side with Battery2#	DH5	39/2441	76.77%	1.303	0.009	0.002	-0.01	13.51	14.00	1.119	0.013	22.1
Body worn Test data (Separate 15mm) UnFold SET 1												
Front side	DH5	39/2441	76.77%	1.303	0.008	0.002	0.19	13.51	14.00	1.119	0.012	22.1
Back side	DH5	39/2441	76.77%	1.303	0.015	0.004	0.04	13.51	14.00	1.119	0.022	22.1
Hotspot Test data (Separate 10mm) Fold SET 3												
Front side	DH5	39/2441	76.77%	1.303	0.026	0.009	0.05	13.51	14.00	1.119	0.038	22.1
Back side	DH5	39/2441	76.77%	1.303	0.040	0.020	-0.04	13.51	14.00	1.119	0.058	22.1
Left side	DH5	39/2441	76.77%	1.303	0.023	0.006	-0.09	13.51	14.00	1.119	0.034	22.1
Right side	DH5	39/2441	76.77%	1.303	0.037	0.012	0.06	13.51	14.00	1.119	0.054	22.1
Top side	DH5	39/2441	76.77%	1.303	0.029	0.011	0.00	13.51	14.00	1.119	0.042	22.1
Bottom side	DH5	39/2441	76.77%	1.303	0.027	0.006	0.18	13.51	14.00	1.119	0.039	22.1
Hotspot Test data (Separate 10mm) UnFold SET 3												
Front side	DH5	39/2441	76.77%	1.303	0.041	0.012	-0.06	13.51	14.00	1.119	0.060	22.1
Back side	DH5	39/2441	76.77%	1.303	0.039	0.010	0.06	13.51	14.00	1.119	0.057	22.1
Left side	DH5	39/2441	76.77%	1.303	0.047	0.012	0.11	13.51	14.00	1.119	0.069	22.1
Right side	DH5	39/2441	76.77%	1.303	0.075	0.027	-0.09	13.51	14.00	1.119	0.109	22.1
Right side with Battery2#	DH5	39/2441	76.77%	1.303	0.052	0.019	-0.01	13.51	14.00	1.119	0.076	22.1
Top side	DH5	39/2441	76.77%	1.303	0.013	0.004	-0.15	13.51	14.00	1.119	0.019	22.1
Bottom side	DH5	39/2441	76.77%	1.303	0.026	0.008	-0.13	13.51	14.00	1.119	0.038	22.1

8.4 Multiple Transmitter Evaluation

8.4.1 Simultaneous SAR test evaluation

No.	Simultaneous Tx Combination	Head	Body worn	Hotspot	Product specific 10gSAR
1	WWAN+WIFI 2.4G	Yes	Yes	Yes	Yes
2	WWAN+WIFI 5G	Yes	Yes	Yes	Yes
3	WWAN+BT	Yes	Yes	Yes	Yes
4	WIFI 5G + Bluetooth	Yes	Yes	Yes	Yes
5	WWAN+WIFI 5G + Bluetooth	Yes	Yes	Yes	Yes

8.4.2 Simultaneous Transmission SAR Summation Scenario

Sum_ULCA(Head)

LTE Band ULCA	Exposure position	Ant0	Ant1	Ant3	Ant4	LTE B2		Inter-band CA Summed SAR							
						Ant1	Ant4								
		1	2	3	4	5	6	1+5	1+6	2+5	2+6	3+5	3+6	4+5	4+6
LTE B4	Left Touch	/	/	/	0.099	0.674	/	0.674	/	0.674	/	0.674	/	0.773	0.099
	Left Tilt	/	/	/	0.048	0.297	/	0.297	/	0.297	/	0.297	/	0.345	0.048
	Right Touch	/	/	/	0.227	0.834	/	0.834	/	0.834	/	0.834	/	1.061	0.227
	Right Tilt	/	/	/	0.047	0.294	/	0.294	/	0.294	/	0.294	/	0.341	0.047
LTE B5	Left Touch	0.372	/	/	/	0.674	/	1.046	0.372	0.674	/	0.674	/	0.674	/
	Left Tilt	0.265	/	/	/	0.297	/	0.562	0.265	0.297	/	0.297	/	0.297	/
	Right Touch	0.431	/	/	/	0.834	/	1.265	0.431	0.834	/	0.834	/	0.834	/
	Right Tilt	0.341	/	/	/	0.294	/	0.635	0.341	0.294	/	0.294	/	0.294	/
LTE B13	Left Touch	0.409	/	/	/	0.674	/	1.083	0.409	0.674	/	0.674	/	0.674	/
	Left Tilt	0.236	/	/	/	0.297	/	0.533	0.236	0.297	/	0.297	/	0.297	/
	Right Touch	0.438	/	/	/	0.834	/	1.272	0.438	0.834	/	0.834	/	0.834	/
	Right Tilt	0.308	/	/	/	0.294	/	0.602	0.308	0.294	/	0.294	/	0.294	/
LTE B66	Left Touch	/	/	/	0.099	0.674	/	0.674	/	0.674	/	0.674	/	0.773	0.099
	Left Tilt	/	/	/	0.048	0.297	/	0.297	/	0.297	/	0.297	/	0.345	0.048
	Right Touch	/	/	/	0.227	0.834	/	0.834	/	0.834	/	0.834	/	1.061	0.227
	Right Tilt	/	/	/	0.047	0.294	/	0.294	/	0.294	/	0.294	/	0.341	0.047
LTE B48	Left Touch	/	/	1.164	/	/	0.044	/	0.044	/	0.044	1.164	1.208	/	0.044
	Left Tilt	/	/	0.146	/	/	0.019	/	0.019	/	0.019	0.146	0.165	/	0.019
	Right Touch	/	/	0.441	/	/	0.096	/	0.096	/	0.096	0.441	0.537	/	0.096
	Right Tilt	/	/	0.209	/	/	0.020	/	0.020	/	0.020	0.209	0.229	/	0.020

LTE Band ULCA	Exposure position	Ant0	LTE B4		Inter-band CA Summed SAR	
			Ant1	Ant4		
		1	2	3	1+2	1+3
LTE B5	Left Touch	0.372	0.511	/	0.883	0.372
	Left Tilt	0.265	0.268	/	0.533	0.265
	Right Touch	0.431	0.505	/	0.936	0.431
	Right Tilt	0.341	0.255	/	0.596	0.341

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LTE Band ULCA	Exposure position	Ant1	Ant4	LTE B5 Ant0	Inter-band CA Summed SAR	
		1	2	3	1+3	2+3
LTE B66	Left Touch	0.511	/	0.372	0.883	0.372
	Left Tilt	0.268	/	0.265	0.533	0.265
	Right Touch	0.505	/	0.431	0.936	0.431
	Right Tilt	0.255	/	0.341	0.596	0.341

LTE Band ULCA	Exposure position	Ant1	Ant4	LTE B48 Ant3	Inter-band CA Summed SAR	
		1	2	3	1+5	4+5
LTE B66	Left Touch	/	0.099	1.164	1.164	1.263
	Left Tilt	/	0.048	0.146	0.146	0.194
	Right Touch	/	0.227	0.441	0.441	0.668
	Right Tilt	/	0.047	0.209	0.209	0.256

Sum Head:

Test position		SARmax (W/kg)			Summed SAR
		WiFi 2.4G Ant5	WiFi 5G Ant5	BT	
		2	3	4	
WLAN	Left cheek	0.056	0.064	0.080	0.144
	Left tilted	0.028	0.052	0.034	0.086
	Right cheek	0.080	0.078	0.089	0.167
	Right tilted	0.024	0.025	0.045	0.070

Test position		SARmax (W/kg)				Summed SAR			
		WWAN Max SAR Ant0	WiFi 2.4G Ant5	WiFi 5G Ant5	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
GSM850	Left cheek	0.406	0.056	0.064	0.080	0.462	0.470	0.486	0.550
	Left tilted	0.171	0.028	0.052	0.034	0.199	0.223	0.205	0.257
	Right cheek	0.229	0.080	0.078	0.089	0.309	0.307	0.318	0.396
	Right tilted	0.205	0.024	0.025	0.045	0.229	0.230	0.250	0.275
WCDMA B5	Left cheek	0.483	0.056	0.064	0.080	0.539	0.547	0.563	0.627
	Left tilted	0.342	0.028	0.052	0.034	0.370	0.394	0.376	0.428
	Right cheek	0.501	0.080	0.078	0.089	0.581	0.579	0.590	0.668
	Right tilted	0.418	0.024	0.025	0.045	0.442	0.443	0.463	0.488
LTE B5	Left cheek	0.372	0.056	0.064	0.080	0.428	0.436	0.452	0.516
	Left tilted	0.265	0.028	0.052	0.034	0.293	0.317	0.299	0.351
	Right cheek	0.431	0.080	0.078	0.089	0.511	0.509	0.520	0.598
	Right tilted	0.341	0.024	0.025	0.045	0.365	0.366	0.386	0.411
LTE B12	Left cheek	0.193	0.056	0.064	0.080	0.249	0.257	0.273	0.337
	Left tilted	0.063	0.028	0.052	0.034	0.091	0.115	0.097	0.149



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	Right cheek	0.200	0.080	0.078	0.089	0.280	0.278	0.289	0.367
	Right tilted	0.080	0.024	0.025	0.045	0.104	0.105	0.125	0.150
LTE B13	Left cheek	0.409	0.056	0.064	0.080	0.465	0.473	0.489	0.553
	Left tilted	0.236	0.028	0.052	0.034	0.264	0.288	0.270	0.322
	Right cheek	0.438	0.080	0.078	0.089	0.518	0.516	0.527	0.605
	Right tilted	0.308	0.024	0.025	0.045	0.332	0.333	0.353	0.378
N5	Left cheek	0.197	0.056	0.064	0.080	0.253	0.261	0.277	0.341
	Left tilted	0.132	0.028	0.052	0.034	0.160	0.184	0.166	0.218
	Right cheek	0.320	0.080	0.078	0.089	0.400	0.398	0.409	0.487
	Right tilted	0.173	0.024	0.025	0.045	0.197	0.198	0.218	0.243

Test position		SARmax (W/kg)				Summed SAR			
		WWAN Max SAR Ant1	WiFi 2.4G Ant5	WiFi 5G Ant5	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
GSM1900	Left cheek	1.167	0.056	0.064	0.080	1.223	1.231	1.247	1.311
	Left tilted	0.516	0.028	0.052	0.034	0.544	0.568	0.550	0.602
	Right cheek	1.245	0.080	0.078	0.089	1.325	1.323	1.334	1.412
	Right tilted	0.536	0.024	0.025	0.045	0.560	0.561	0.581	0.606
WCDMA B2	Left cheek	0.513	0.056	0.064	0.080	0.569	0.577	0.593	0.657
	Left tilted	0.238	0.028	0.052	0.034	0.266	0.290	0.272	0.324
	Right cheek	0.575	0.080	0.078	0.089	0.655	0.653	0.664	0.742
	Right tilted	0.233	0.024	0.025	0.045	0.257	0.258	0.278	0.303
LTE B2	Left cheek	0.674	0.056	0.064	0.080	0.730	0.738	0.754	0.818
	Left tilted	0.297	0.028	0.052	0.034	0.325	0.349	0.331	0.383
	Right cheek	0.834	0.080	0.078	0.089	0.914	0.912	0.923	1.001
	Right tilted	0.294	0.024	0.025	0.045	0.318	0.319	0.339	0.364
LTE B66	Left cheek	0.511	0.056	0.064	0.080	0.567	0.575	0.591	0.655
	Left tilted	0.268	0.028	0.052	0.034	0.296	0.320	0.302	0.354
	Right cheek	0.505	0.080	0.078	0.089	0.585	0.583	0.594	0.672
	Right tilted	0.255	0.024	0.025	0.045	0.279	0.280	0.300	0.325
N2	Left cheek	0.408	0.056	0.064	0.080	0.464	0.472	0.488	0.552
	Left tilted	0.300	0.028	0.052	0.034	0.328	0.352	0.334	0.386
	Right cheek	0.593	0.080	0.078	0.089	0.673	0.671	0.682	0.760
	Right tilted	0.314	0.024	0.025	0.045	0.338	0.339	0.359	0.384
N66	Left cheek	0.429	0.056	0.064	0.080	0.485	0.493	0.509	0.573
	Left tilted	0.202	0.028	0.052	0.034	0.230	0.254	0.236	0.288
	Right cheek	0.303	0.080	0.078	0.089	0.383	0.381	0.392	0.470
	Right tilted	0.185	0.024	0.025	0.045	0.209	0.210	0.230	0.255

Test position		SARmax (W/kg)				Summed SAR			
		WWAN Max SAR Ant3	WiFi 2.4G Ant5	WiFi 5G Ant5	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
LTE B48	Left cheek	1.164	0.056	0.064	0.080	1.220	1.228	1.244	1.308
	Left tilted	0.146	0.028	0.052	0.034	0.174	0.198	0.180	0.232
	Right cheek	0.441	0.080	0.078	0.089	0.521	0.519	0.530	0.608
	Right tilted	0.209	0.024	0.025	0.045	0.233	0.234	0.254	0.279



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N48	Left cheek	1.265	0.056	0.064	0.080	1.321	1.329	1.345	1.409
	Left tilted	0.190	0.028	0.052	0.034	0.218	0.242	0.224	0.276
	Right cheek	0.598	0.080	0.078	0.089	0.678	0.676	0.687	0.765
	Right tilted	0.230	0.024	0.025	0.045	0.254	0.255	0.275	0.300
N77	Left cheek	1.063	0.056	0.064	0.080	1.119	1.127	1.143	1.207
	Left tilted	0.211	0.028	0.052	0.034	0.239	0.263	0.245	0.297
	Right cheek	0.524	0.080	0.078	0.089	0.604	0.602	0.613	0.691
	Right tilted	0.291	0.024	0.025	0.045	0.315	0.316	0.336	0.361

Test position		SARmax (W/kg)				Summed SAR			
		WWAN Max SAR Ant4	WiFi 2.4G Ant5	WiFi 5G Ant5	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
LTE B2	Left cheek	0.044	0.056	0.064	0.080	0.100	0.108	0.124	0.188
	Left tilted	0.019	0.028	0.052	0.034	0.047	0.071	0.053	0.105
	Right cheek	0.096	0.080	0.078	0.089	0.176	0.174	0.185	0.263
	Right tilted	0.020	0.024	0.025	0.045	0.044	0.045	0.065	0.090
LTE B66	Left cheek	0.099	0.056	0.064	0.080	0.155	0.163	0.179	0.243
	Left tilted	0.048	0.028	0.052	0.034	0.076	0.100	0.082	0.134
	Right cheek	0.227	0.080	0.078	0.089	0.307	0.305	0.316	0.394
	Right tilted	0.047	0.024	0.025	0.045	0.071	0.072	0.092	0.117

Test position		SARmax (W/kg)				Summed SAR			
		Inter-band UL CA	WiFi 2.4G Ant5	WiFi 5G Ant5	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
CA_2A-4A	Left cheek	0.773	0.056	0.064	0.080	0.829	0.837	0.853	0.917
	Left tilted	0.345	0.028	0.052	0.034	0.373	0.397	0.379	0.431
	Right cheek	1.061	0.080	0.078	0.089	1.141	1.139	1.150	1.228
	Right tilted	0.341	0.024	0.025	0.045	0.365	0.366	0.386	0.411
CA_2A-5A	Left cheek	1.046	0.056	0.064	0.080	1.102	1.110	1.126	1.190
	Left tilted	0.562	0.028	0.052	0.034	0.590	0.614	0.596	0.648
	Right cheek	1.265	0.080	0.078	0.089	1.345	1.343	1.354	1.432
	Right tilted	0.635	0.024	0.025	0.045	0.659	0.660	0.680	0.705
CA_2A-13A	Left cheek	1.083	0.056	0.064	0.080	1.139	1.147	1.163	1.227
	Left tilted	0.533	0.028	0.052	0.034	0.561	0.585	0.567	0.619
	Right cheek	1.272	0.080	0.078	0.089	1.352	1.350	1.361	1.439
	Right tilted	0.602	0.024	0.025	0.045	0.626	0.627	0.647	0.672
CA_2A-66A	Left cheek	0.773	0.056	0.064	0.080	0.829	0.837	0.853	0.917
	Left tilted	0.345	0.028	0.052	0.034	0.373	0.397	0.379	0.431
	Right cheek	1.061	0.080	0.078	0.089	1.141	1.139	1.150	1.228
	Right tilted	0.341	0.024	0.025	0.045	0.365	0.366	0.386	0.411
CA_2A-48A	Left cheek	1.208	0.056	0.064	0.080	1.264	1.272	1.288	1.352
	Left tilted	0.165	0.028	0.052	0.034	0.193	0.217	0.199	0.251
	Right cheek	0.537	0.080	0.078	0.089	0.617	0.615	0.626	0.704
	Right tilted	0.229	0.024	0.025	0.045	0.253	0.254	0.274	0.299
CA_4A-5A	Left cheek	0.883	0.056	0.064	0.080	0.939	0.947	0.963	1.027
	Left tilted	0.533	0.028	0.052	0.034	0.561	0.585	0.567	0.619



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	Right cheek	0.936	0.080	0.078	0.089	1.016	1.014	1.025	1.103
	Right tilted	0.596	0.024	0.025	0.045	0.620	0.621	0.641	0.666
CA_5A-66A	Left cheek	0.883	0.056	0.064	0.080	0.939	0.947	0.963	1.027
	Left tilted	0.533	0.028	0.052	0.034	0.561	0.585	0.567	0.619
	Right cheek	0.936	0.080	0.078	0.089	1.016	1.014	1.025	1.103
	Right tilted	0.596	0.024	0.025	0.045	0.620	0.621	0.641	0.666
CA_48A-66A	Left cheek	1.263	0.056	0.064	0.080	1.319	1.327	1.343	1.407
	Left tilted	0.194	0.028	0.052	0.034	0.222	0.246	0.228	0.280
	Right cheek	0.668	0.080	0.078	0.089	0.748	0.746	0.757	0.835
	Right tilted	0.256	0.024	0.025	0.045	0.280	0.281	0.301	0.326

Test position		SARmax (W/kg)				Summed SAR			
		EN-DC Max SAR	WiFi 2.4G Ant5	WiFi 5G Ant5	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
n2-B2	Left cheek	0.452	0.056	0.064	0.080	0.508	0.516	0.532	0.596
	Left tilted	0.319	0.028	0.052	0.034	0.347	0.371	0.353	0.405
	Right cheek	0.689	0.080	0.078	0.089	0.769	0.767	0.778	0.856
	Right tilted	0.334	0.024	0.025	0.045	0.358	0.359	0.379	0.404
n2-B5	Left cheek	0.780	0.056	0.064	0.080	0.836	0.844	0.860	0.924
	Left tilted	0.565	0.028	0.052	0.034	0.593	0.617	0.599	0.651
	Right cheek	1.024	0.080	0.078	0.089	1.104	1.102	1.113	1.191
	Right tilted	0.655	0.024	0.025	0.045	0.679	0.680	0.700	0.725
n2-B13	Left cheek	0.817	0.056	0.064	0.080	0.873	0.881	0.897	0.961
	Left tilted	0.536	0.028	0.052	0.034	0.564	0.588	0.570	0.622
	Right cheek	1.031	0.080	0.078	0.089	1.111	1.109	1.120	1.198
	Right tilted	0.622	0.024	0.025	0.045	0.646	0.647	0.667	0.692
n2-B66	Left cheek	0.507	0.056	0.064	0.080	0.563	0.571	0.587	0.651
	Left tilted	0.348	0.028	0.052	0.034	0.376	0.400	0.382	0.434
	Right cheek	0.820	0.080	0.078	0.089	0.900	0.898	0.909	0.987
	Right tilted	0.361	0.024	0.025	0.045	0.385	0.386	0.406	0.431
n2-B48	Left cheek	0.991	0.056	0.064	0.080	1.047	1.055	1.071	1.135
	Left tilted	0.373	0.028	0.052	0.034	0.401	0.425	0.407	0.459
	Right cheek	0.814	0.080	0.078	0.089	0.894	0.892	0.903	0.981
	Right tilted	0.419	0.024	0.025	0.045	0.443	0.444	0.464	0.489
n5-B2	Left cheek	0.871	0.056	0.064	0.080	0.927	0.935	0.951	1.015
	Left tilted	0.429	0.028	0.052	0.034	0.457	0.481	0.463	0.515
	Right cheek	1.154	0.080	0.078	0.089	1.234	1.232	1.243	1.321
	Right tilted	0.467	0.024	0.025	0.045	0.491	0.492	0.512	0.537
n5-B66	Left cheek	0.296	0.056	0.064	0.080	0.352	0.360	0.376	0.440
	Left tilted	0.180	0.028	0.052	0.034	0.208	0.232	0.214	0.266
	Right cheek	0.547	0.080	0.078	0.089	0.627	0.625	0.636	0.714
	Right tilted	0.220	0.024	0.025	0.045	0.244	0.245	0.265	0.290
n5-B48	Left cheek	0.780	0.056	0.064	0.080	0.836	0.844	0.860	0.924
	Left tilted	0.205	0.028	0.052	0.034	0.233	0.257	0.239	0.291
	Right cheek	0.541	0.080	0.078	0.089	0.621	0.619	0.630	0.708
	Right tilted	0.278	0.024	0.025	0.045	0.302	0.303	0.323	0.348
n66-B2	Left cheek	0.473	0.056	0.064	0.080	0.529	0.537	0.553	0.617
	Left tilted	0.221	0.028	0.052	0.034	0.249	0.273	0.255	0.307



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	Right cheek	0.399	0.080	0.078	0.089	0.479	0.477	0.488	0.566
	Right tilted	0.205	0.024	0.025	0.045	0.229	0.230	0.250	0.275
n66-B5	Left cheek	0.801	0.056	0.064	0.080	0.857	0.865	0.881	0.945
	Left tilted	0.467	0.028	0.052	0.034	0.495	0.519	0.501	0.553
	Right cheek	0.734	0.080	0.078	0.089	0.814	0.812	0.823	0.901
	Right tilted	0.526	0.024	0.025	0.045	0.550	0.551	0.571	0.596
n66-B13	Left cheek	0.838	0.056	0.064	0.080	0.894	0.902	0.918	0.982
	Left tilted	0.438	0.028	0.052	0.034	0.466	0.490	0.472	0.524
	Right cheek	0.741	0.080	0.078	0.089	0.821	0.819	0.830	0.908
	Right tilted	0.493	0.024	0.025	0.045	0.517	0.518	0.538	0.563
n66-B66	Left cheek	0.528	0.056	0.064	0.080	0.584	0.592	0.608	0.672
	Left tilted	0.250	0.028	0.052	0.034	0.278	0.302	0.284	0.336
	Right cheek	0.530	0.080	0.078	0.089	0.610	0.608	0.619	0.697
	Right tilted	0.232	0.024	0.025	0.045	0.256	0.257	0.277	0.302
n66-B48	Left cheek	1.012	0.056	0.064	0.080	1.068	1.076	1.092	1.156
	Left tilted	0.275	0.028	0.052	0.034	0.303	0.327	0.309	0.361
	Right cheek	0.524	0.080	0.078	0.089	0.604	0.602	0.613	0.691
	Right tilted	0.290	0.024	0.025	0.045	0.314	0.315	0.335	0.360
n77-B2	Left cheek	0.642	0.056	0.064	0.080	0.698	0.706	0.722	0.786
	Left tilted	0.137	0.028	0.052	0.034	0.165	0.189	0.171	0.223
	Right cheek	0.391	0.080	0.078	0.089	0.471	0.469	0.480	0.558
	Right tilted	0.184	0.024	0.025	0.045	0.208	0.209	0.229	0.254
n77-B5	Left cheek	0.970	0.056	0.064	0.080	1.026	1.034	1.050	1.114
	Left tilted	0.383	0.028	0.052	0.034	0.411	0.435	0.417	0.469
	Right cheek	0.726	0.080	0.078	0.089	0.806	0.804	0.815	0.893
	Right tilted	0.505	0.024	0.025	0.045	0.529	0.530	0.550	0.575
n77-B13	Left cheek	1.007	0.056	0.064	0.080	1.063	1.071	1.087	1.151
	Left tilted	0.354	0.028	0.052	0.034	0.382	0.406	0.388	0.440
	Right cheek	0.733	0.080	0.078	0.089	0.813	0.811	0.822	0.900
	Right tilted	0.472	0.024	0.025	0.045	0.496	0.497	0.517	0.542
n77-B66	Left cheek	0.697	0.056	0.064	0.080	0.753	0.761	0.777	0.841
	Left tilted	0.217	0.028	0.052	0.034	0.245	0.269	0.251	0.303
	Right cheek	0.343	0.080	0.078	0.089	0.423	0.421	0.432	0.510
	Right tilted	0.391	0.024	0.025	0.045	0.415	0.416	0.436	0.461

Sum_ENDC(Head):

LTE Band (EN_DC)	Exposure position	Ant0	Ant3	Ant4	n2	EN_DC Summed SAR		
					Ant1			
		1	2	3	4	1+4	2+4	3+4
Band 2	Left Touch	/	/	0.044	0.408	0.408	0.408	0.452
	Left Tilt	/	/	0.019	0.300	0.300	0.300	0.319
	Right Touch	/	/	0.096	0.593	0.593	0.593	0.689
	Right Tilt	/	/	0.020	0.314	0.314	0.314	0.334
Band 5	Left Touch	0.372	/	/	0.408	0.780	0.408	0.408
	Left Tilt	0.265	/	/	0.300	0.565	0.300	0.300
	Right Touch	0.431	/	/	0.593	1.024	0.593	0.593
	Right Tilt	0.341	/	/	0.314	0.655	0.314	0.314



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Band 13	Left Touch	0.409	/	/	0.408	0.817	0.408	0.408
	Left Tilt	0.236	/	/	0.300	0.536	0.300	0.300
	Right Touch	0.438	/	/	0.593	1.031	0.593	0.593
	Right Tilt	0.308	/	/	0.314	0.622	0.314	0.314
Band 66	Left Touch	/	/	0.099	0.408	0.408	0.408	0.507
	Left Tilt	/	/	0.048	0.300	0.300	0.300	0.348
	Right Touch	/	/	0.227	0.593	0.593	0.593	0.820
	Right Tilt	/	/	0.047	0.314	0.314	0.314	0.361
Band 48	Left Touch	/	0.583	/	0.408	0.408	0.991	0.408
	Left Tilt	/	0.073	/	0.300	0.300	0.373	0.300
	Right Touch	/	0.221	/	0.593	0.593	0.814	0.593
	Right Tilt	/	0.105	/	0.314	0.314	0.419	0.314

LTE Band (EN_DC)	Exposure position	Ant1	Ant3	Ant4	n5	EN_DC Summed SAR		
					Ant0			
		1	2	3	4	1+4	2+4	3+4
Band 2	Left Touch	0.674	/	/	0.197	0.871	0.197	0.197
	Left Tilt	0.297	/	/	0.132	0.429	0.132	0.132
	Right Touch	0.834	/	/	0.320	1.154	0.320	0.320
	Right Tilt	0.294	/	/	0.173	0.467	0.173	0.173
Band 66	Left Touch	/	/	0.099	0.197	0.197	0.197	0.296
	Left Tilt	/	/	0.048	0.132	0.132	0.132	0.180
	Right Touch	/	/	0.227	0.320	0.320	0.320	0.547
	Right Tilt	/	/	0.047	0.173	0.173	0.173	0.220
Band 48	Left Touch	/	0.583	/	0.197	0.197	0.780	0.197
	Left Tilt	/	0.073	/	0.132	0.132	0.205	0.132
	Right Touch	/	0.221	/	0.320	0.320	0.541	0.320
	Right Tilt	/	0.105	/	0.173	0.173	0.278	0.173

LTE Band (EN_DC)	Exposure position	Ant0	Ant3	Ant4	n66	EN_DC Summed SAR		
					Ant1			
		1	2	3	4	1+4	2+4	3+4
Band 2	Left Touch	/	/	0.044	0.429	0.429	0.429	0.473
	Left Tilt	/	/	0.019	0.202	0.202	0.202	0.221
	Right Touch	/	/	0.096	0.303	0.303	0.303	0.399
	Right Tilt	/	/	0.020	0.185	0.185	0.185	0.205
Band 5	Left Touch	0.372	/	/	0.429	0.801	0.429	0.429
	Left Tilt	0.265	/	/	0.202	0.467	0.202	0.202
	Right Touch	0.431	/	/	0.303	0.734	0.303	0.303
	Right Tilt	0.341	/	/	0.185	0.526	0.185	0.185
Band 13	Left Touch	0.409	/	/	0.429	0.838	0.429	0.429
	Left Tilt	0.236	/	/	0.202	0.438	0.202	0.202



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	Right Touch	0.438	/	/	0.303	0.741	0.303	0.303
	Right Tilt	0.308	/	/	0.185	0.493	0.185	0.185
Band 66	Left Touch	/	/	0.099	0.429	0.429	0.429	0.528
	Left Tilt	/	/	0.048	0.202	0.202	0.202	0.250
	Right Touch	/	/	0.227	0.303	0.303	0.303	0.530
	Right Tilt	/	/	0.047	0.185	0.185	0.185	0.232
Band 48	Left Touch	/	0.583	/	0.429	0.429	1.012	0.429
	Left Tilt	/	0.073	/	0.202	0.202	0.275	0.202
	Right Touch	/	0.221	/	0.303	0.303	0.524	0.303
	Right Tilt	/	0.105	/	0.185	0.185	0.290	0.185

LTE Band (EN_DC)	Exposure position	Ant0	Ant3	Ant4	n77	EN_DC Summed SAR		
					Ant3			
		1	2	3	4	1+4	2+4	3+4
Band 2	Left Touch	/	/	0.044	0.598	0.598	0.598	0.642
	Left Tilt	/	/	0.019	0.118	0.118	0.118	0.137
	Right Touch	/	/	0.096	0.295	0.295	0.295	0.391
	Right Tilt	/	/	0.020	0.164	0.164	0.164	0.184
Band 5	Left Touch	0.372	/	/	0.598	0.970	0.598	0.598
	Left Tilt	0.265	/	/	0.118	0.383	0.118	0.118
	Right Touch	0.431	/	/	0.295	0.726	0.295	0.295
	Right Tilt	0.341	/	/	0.164	0.505	0.164	0.164
Band 13	Left Touch	0.409	/	/	0.598	1.007	0.598	0.598
	Left Tilt	0.236	/	/	0.118	0.354	0.118	0.118
	Right Touch	0.438	/	/	0.295	0.733	0.295	0.295
	Right Tilt	0.308	/	/	0.164	0.472	0.164	0.164
Band 66	Left Touch	/	/	0.099	0.598	0.598	0.598	0.697
	Left Tilt	/	/	0.099	0.118	0.118	0.118	0.217
	Right Touch	/	/	0.048	0.295	0.295	0.295	0.343
	Right Tilt	/	/	0.227	0.164	0.164	0.164	0.391

Sum_ULCA(Body-Worn):

LTE Band ULCA	Exposure position	Ant0	Ant1	Ant3	Ant4	LTE B2		Inter-band CA Summed SAR							
						Ant1	Ant4								
		1	2	3	4	5	6	1+5	1+6	2+5	2+6	3+5	3+6	4+5	4+6
LTE B4	Front side	/	/	/	0.219	0.302	/	0.302	/	0.302	/	0.302	/	0.521	0.219
	Back side	/	/	/	0.411	0.352	/	0.352	/	0.352	/	0.352	/	0.763	0.411
LTE B5	Front side	0.310	/	/	/	0.302	/	0.612	0.310	0.302	/	0.302	/	0.302	/
	Back side	0.735	/	/	/	0.352	/	1.087	0.735	0.352	/	0.352	/	0.352	/
LTE B13	Front side	0.312	/	/	/	0.302	/	0.614	0.312	0.302	/	0.302	/	0.302	/



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	Back side	0.841	/	/	/	0.352	/	1.193	0.841	0.352	/	0.352	/	0.352	/
LTE B66	Front side	/	/	/	0.219	0.302	/	0.302	/	0.302	/	0.302	/	0.521	0.219
	Back side	/	/	/	0.411	0.352	/	0.352	/	0.352	/	0.352	/	0.763	0.411
LTE B48	Front side	/	/	0.230	/	/	0.074	/	0.074	/	0.074	0.230	0.304	/	0.074
	Back side	/	/	0.231	/	/	0.283	/	0.283	/	0.283	0.231	0.514	/	0.283

LTE Band ULCA	Exposure position	Ant0	LTE B4		Inter-band CA Summed SAR	
			Ant1	Ant4		
		1	2	3	1+2	1+3
LTE B5	Front side	0.310	0.299	/	0.609	0.310
	Back side	0.735	0.305	/	1.040	0.735

LTE Band ULCA	Exposure position	Ant1	Ant4	LTE B5	Inter-band CA Summed SAR	
				Ant0		
		1	2	3	1+3	2+3
LTE B66	Front side	0.299	/	0.310	0.609	0.310
	Back side	0.305	/	0.735	1.040	0.735

LTE Band ULCA	Exposure position	Ant1	Ant4	LTE B48	Inter-band CA Summed SAR	
				Ant3		
		1	2	3	1+5	4+5
LTE B66	Front side	/	0.219	0.230	0.230	0.449
	Back side	/	0.411	0.231	0.231	0.642

Sum_ENDC(Body-Worn):

LTE Band (EN_DC)	Exposure position	Ant0	Ant3	Ant4	n2	EN_DC Summed SAR		
					Ant1			
		1	2	3	4	1+4	2+4	3+4
Band 2	Front side	/	/	0.074	0.125	0.125	0.125	0.199
	Back side	/	/	0.283	0.304	0.304	0.304	0.587
Band 5	Front side	0.178	/	/	0.125	0.303	0.125	0.125
	Back side	0.368	/	/	0.304	0.672	0.304	0.304
Band 13	Front side	0.157	/	/	0.125	0.282	0.125	0.125
	Back side	0.421	/	/	0.304	0.725	0.304	0.304
Band 66	Front side	/	/	0.219	0.125	0.125	0.125	0.344
	Back side	/	/	0.411	0.304	0.304	0.304	0.715
Band 48	Front side	/	0.230	/	0.125	0.125	0.355	0.125
	Back side	/	0.231	/	0.304	0.304	0.535	0.304



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LTE Band (EN_DC)	Exposure position	Ant1	Ant3	Ant4	n5	EN_DC Summed SAR		
					Ant0			
		1	2	3	4	1+4	2+4	3+4
Band 2	Front side	0.302	/	/	0.218	0.520	0.218	0.218
	Back side	0.352	/	/	0.635	0.987	0.635	0.635
Band 66	Front side	/	/	0.219	0.218	0.218	0.218	0.437
	Back side	/	/	0.411	0.635	0.635	0.635	1.046
Band 48	Front side	/	0.230	/	0.218	0.218	0.448	0.218
	Back side	/	0.231	/	0.635	0.635	0.866	0.635

LTE Band (EN_DC)	Exposure position	Ant0	Ant3	Ant4	n66	EN_DC Summed SAR		
					Ant1			
		1	2	3	4	1+4	2+4	3+4
Band 2	Front side	/	/	0.074	0.173	0.173	0.173	0.247
	Back side	/	/	0.283	0.241	0.241	0.241	0.524
Band 5	Front side	0.178	/	/	0.173	0.351	0.173	0.173
	Back side	0.368	/	/	0.241	0.609	0.241	0.241
Band 13	Front side	0.157	/	/	0.173	0.330	0.173	0.173
	Back side	0.421	/	/	0.241	0.662	0.241	0.241
Band 66	Front side	/	/	0.219	0.173	0.173	0.173	0.392
	Back side	/	/	0.411	0.241	0.241	0.241	0.652
Band 48	Front side	/	0.230	/	0.173	0.173	0.403	0.173
	Back side	/	0.231	/	0.241	0.241	0.472	0.241

LTE Band (EN_DC)	Exposure position	Ant0	Ant3	Ant4	n77	EN_DC Summed SAR		
					Ant3			
		1	2	3	4	1+4	2+4	3+4
Band 2	Front side	/	/	0.074	0.370	0.370	0.370	0.444
	Back side	/	/	0.283	0.758	0.758	0.758	1.041
Band 5	Front side	0.178	/	/	0.370	0.548	0.370	0.370
	Back side	0.368	/	/	0.758	1.126	0.758	0.758
Band 13	Front side	0.157	/	/	0.370	0.527	0.370	0.370
	Back side	0.421	/	/	0.758	1.179	0.758	0.758
Band 66	Front side	/	/	0.219	0.370	0.370	0.370	0.589
	Back side	/	/	0.411	0.758	0.758	0.758	1.169



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Sum Body-worn:

Test position		SARmax (W/kg)			Summed SAR
		WiFi 2.4G Ant5	WiFi 5G Ant5	BT	
		2	3	4	
WLAN	Front side	0.012	0.059	0.015	0.074
	Back side	0.088	0.098	0.025	0.123

Test position		SARmax (W/kg)				Summed SAR			
		WWAN Max SAR Ant0	WiFi 2.4G Ant5	WiFi 5G Ant5	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
GSM850	Front side	0.366	0.012	0.059	0.015	0.378	0.425	0.381	0.440
	Back side	1.002	0.088	0.098	0.025	1.090	1.100	1.027	1.125
WCDMA B5	Front side	0.346	0.012	0.059	0.015	0.358	0.405	0.361	0.420
	Back side	0.894	0.088	0.098	0.025	0.982	0.992	0.919	1.017
LTE B5	Front side	0.310	0.012	0.059	0.015	0.322	0.369	0.325	0.384
	Back side	0.735	0.088	0.098	0.025	0.823	0.833	0.760	0.858
LTE B12	Front side	0.211	0.012	0.059	0.015	0.223	0.270	0.226	0.285
	Back side	0.623	0.088	0.098	0.025	0.711	0.721	0.648	0.746
LTE B13	Front side	0.312	0.012	0.059	0.015	0.324	0.371	0.327	0.386
	Back side	0.841	0.088	0.098	0.025	0.929	0.939	0.866	0.964
N5	Front side	0.218	0.012	0.059	0.015	0.230	0.277	0.233	0.292
	Back side	0.635	0.088	0.098	0.025	0.723	0.733	0.660	0.758

Test position		SARmax (W/kg)				Summed SAR			
		WWAN Max SAR Ant1	WiFi 2.4G Ant5	WiFi 5G Ant5	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
GSM1900	Front side	0.398	0.012	0.059	0.015	0.410	0.457	0.413	0.472
	Back side	0.706	0.088	0.098	0.025	0.794	0.804	0.731	0.829
WCDMA B2	Front side	0.227	0.012	0.059	0.015	0.239	0.286	0.242	0.301
	Back side	0.456	0.088	0.098	0.025	0.544	0.554	0.481	0.579
LTE B2	Front side	0.302	0.012	0.059	0.015	0.314	0.361	0.317	0.376
	Back side	0.352	0.088	0.098	0.025	0.440	0.450	0.377	0.475
LTE B66	Front side	0.299	0.012	0.059	0.015	0.311	0.358	0.314	0.373
	Back side	0.305	0.088	0.098	0.025	0.393	0.403	0.330	0.428
N2	Front side	0.125	0.012	0.059	0.015	0.137	0.184	0.140	0.199
	Back side	0.304	0.088	0.098	0.025	0.392	0.402	0.329	0.427
N66	Front side	0.173	0.012	0.059	0.015	0.185	0.232	0.188	0.247
	Back side	0.241	0.088	0.098	0.025	0.329	0.339	0.266	0.364



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Test position		SARmax (W/kg)				Summed SAR			
		WWAN Max SAR Ant3	WiFi 2.4G Ant5	WiFi 5G Ant5	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
LTE B48	Front side	0.230	0.012	0.059	0.015	0.242	0.289	0.245	0.304
	Back side	0.231	0.088	0.098	0.025	0.319	0.329	0.256	0.354
N48	Front side	0.195	0.012	0.059	0.015	0.207	0.254	0.210	0.269
	Back side	0.446	0.088	0.098	0.025	0.534	0.544	0.471	0.569
N77	Front side	0.370	0.012	0.059	0.015	0.382	0.429	0.385	0.444
	Back side	0.758	0.088	0.098	0.025	0.846	0.856	0.783	0.881

Test position		SARmax (W/kg)				Summed SAR			
		WWAN Max SAR Ant4	WiFi 2.4G Ant5	WiFi 5G Ant5	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
LTE B2	Front side	0.074	0.012	0.059	0.015	0.086	0.133	0.089	0.148
	Back side	0.283	0.088	0.098	0.025	0.371	0.381	0.308	0.406
LTE B66	Front side	0.219	0.012	0.059	0.015	0.231	0.278	0.234	0.293
	Back side	0.411	0.088	0.098	0.025	0.499	0.509	0.436	0.534

Test position		SARmax (W/kg)				Summed SAR			
		Inter-band UL CA	WiFi 2.4G Ant5	WiFi 5G Ant5	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
CA 2A-4A	Front side	0.521	0.012	0.059	0.015	0.533	0.580	0.536	0.595
	Back side	0.763	0.088	0.098	0.025	0.851	0.861	0.788	0.886
CA 2A-5A	Front side	0.612	0.012	0.059	0.015	0.624	0.671	0.627	0.686
	Back side	1.087	0.088	0.098	0.025	1.175	1.185	1.112	1.210
CA 2A-13A	Front side	0.614	0.012	0.059	0.015	0.626	0.673	0.629	0.688
	Back side	1.193	0.088	0.098	0.025	1.281	1.291	1.218	1.316
CA 2A-66A	Front side	0.521	0.012	0.059	0.015	0.533	0.580	0.536	0.595
	Back side	0.763	0.088	0.098	0.025	0.851	0.861	0.788	0.886
CA 2A-48A	Front side	0.304	0.012	0.059	0.015	0.316	0.363	0.319	0.378
	Back side	0.514	0.088	0.098	0.025	0.602	0.612	0.539	0.637
CA 4A-5A	Front side	0.609	0.012	0.059	0.015	0.621	0.668	0.624	0.683
	Back side	1.040	0.088	0.098	0.025	1.128	1.138	1.065	1.163
CA 5A-66A	Front side	0.609	0.012	0.059	0.015	0.621	0.668	0.624	0.683
	Back side	1.040	0.088	0.098	0.025	1.128	1.138	1.065	1.163
CA 48A-66A	Front side	0.449	0.012	0.059	0.015	0.461	0.508	0.464	0.523
	Back side	0.642	0.088	0.098	0.025	0.730	0.740	0.667	0.765



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Test position		SARmax (W/kg)				Summed SAR			
		EN-DC Max SAR	WiFi 2.4G Ant5	WiFi 5G Ant5	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
n2-B2	Front side	0.199	0.012	0.059	0.015	0.211	0.258	0.214	0.273
	Back side	0.587	0.088	0.098	0.025	0.675	0.685	0.612	0.710
n2-B5	Front side	0.303	0.012	0.059	0.015	0.315	0.362	0.318	0.377
	Back side	0.672	0.088	0.098	0.025	0.760	0.770	0.697	0.795
n2-B13	Front side	0.282	0.012	0.059	0.015	0.294	0.341	0.297	0.356
	Back side	0.725	0.088	0.098	0.025	0.813	0.823	0.750	0.848
n2-B66	Front side	0.344	0.012	0.059	0.015	0.356	0.403	0.359	0.418
	Back side	0.715	0.088	0.098	0.025	0.803	0.813	0.740	0.838
n2-B48	Front side	0.355	0.012	0.059	0.015	0.367	0.414	0.370	0.429
	Back side	0.535	0.088	0.098	0.025	0.623	0.633	0.560	0.658
n5-B2	Front side	0.520	0.012	0.059	0.015	0.532	0.579	0.535	0.594
	Back side	0.987	0.088	0.098	0.025	1.075	1.085	1.012	1.110
n5-B66	Front side	0.437	0.012	0.059	0.015	0.449	0.496	0.452	0.511
	Back side	1.046	0.088	0.098	0.025	1.134	1.144	1.071	1.169
n5-B48	Front side	0.448	0.012	0.059	0.015	0.460	0.507	0.463	0.522
	Back side	0.866	0.088	0.098	0.025	0.954	0.964	0.891	0.989
n66-B2	Front side	0.247	0.012	0.059	0.015	0.259	0.306	0.262	0.321
	Back side	0.524	0.088	0.098	0.025	0.612	0.622	0.549	0.647
n66-B5	Front side	0.351	0.012	0.059	0.015	0.363	0.410	0.366	0.425
	Back side	0.609	0.088	0.098	0.025	0.697	0.707	0.634	0.732
n66-B13	Front side	0.330	0.012	0.059	0.015	0.342	0.389	0.345	0.404
	Back side	0.662	0.088	0.098	0.025	0.750	0.760	0.687	0.785
n66-B66	Front side	0.392	0.012	0.059	0.015	0.404	0.451	0.407	0.466
	Back side	0.652	0.088	0.098	0.025	0.740	0.750	0.677	0.775
n66-B48	Front side	0.403	0.012	0.059	0.015	0.415	0.462	0.418	0.477
	Back side	0.472	0.088	0.098	0.025	0.560	0.570	0.497	0.595
n77-B2	Front side	0.444	0.012	0.059	0.015	0.456	0.503	0.459	0.518
	Back side	1.041	0.088	0.098	0.025	1.129	1.139	1.066	1.164
n77-B5	Front side	0.548	0.012	0.059	0.015	0.560	0.607	0.563	0.622
	Back side	1.126	0.088	0.098	0.025	1.214	1.224	1.151	1.249
n77-B13	Front side	0.527	0.012	0.059	0.015	0.539	0.586	0.542	0.601
	Back side	1.179	0.088	0.098	0.025	1.267	1.277	1.204	1.302
n77-B66	Front side	0.589	0.012	0.059	0.015	0.601	0.648	0.604	0.663
	Back side	1.169	0.088	0.098	0.025	1.257	1.267	1.194	1.292



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Sum_ULCA(Hotspot):

LTE Band ULCA	Exposure position	Ant0	Ant1	Ant3	Ant4	LTE B2		Inter-band CA Summed SAR							
						Ant1	Ant4								
		1	2	3	4	5	6	1+5	1+6	2+5	2+6	3+5	3+6	4+5	4+6
LTE B4	Front side	/	/	/	0.404	0.176	/	0.176	/	0.176	/	0.176	/	0.580	0.404
	Back side	/	/	/	0.746	0.384	/	0.384	/	0.384	/	0.384	/	1.130	0.746
	Left side	/	/	/	0.088	0.091	/	0.091	/	0.091	/	0.091	/	0.179	0.088
	Right side	/	/	/	0.520	0.119	/	0.119	/	0.119	/	0.119	/	0.639	0.520
	Top side	/	/	/	0.036	0.148	/	0.148	/	0.148	/	0.148	/	0.184	0.036
	Bottom side	/	/	/	0.322	0.041	/	0.041	/	0.041	/	0.041	/	0.363	0.322
LTE B5	Front side	0.179	/	/	/	0.176	/	0.355	0.179	0.176	/	0.176	/	0.176	/
	Back side	0.453	/	/	/	0.384	/	0.837	0.453	0.384	/	0.384	/	0.384	/
	Left side	0.197	/	/	/	0.091	/	0.288	0.197	0.091	/	0.091	/	0.091	/
	Right side	0.286	/	/	/	0.119	/	0.405	0.286	0.119	/	0.119	/	0.119	/
	Top side	0.019	/	/	/	0.148	/	0.167	0.019	0.148	/	0.148	/	0.148	/
	Bottom side	0.172	/	/	/	0.041	/	0.213	0.172	0.041	/	0.041	/	0.041	/
LTE B13	Front side	0.332	/	/	/	0.176	/	0.508	0.332	0.176	/	0.176	/	0.176	/
	Back side	0.849	/	/	/	0.384	/	1.233	0.849	0.384	/	0.384	/	0.384	/
	Left side	0.373	/	/	/	0.091	/	0.464	0.373	0.091	/	0.091	/	0.091	/
	Right side	0.581	/	/	/	0.119	/	0.700	0.581	0.119	/	0.119	/	0.119	/
	Top side	0.040	/	/	/	0.148	/	0.188	0.040	0.148	/	0.148	/	0.148	/
	Bottom side	0.364	/	/	/	0.041	/	0.405	0.364	0.041	/	0.041	/	0.041	/
LTE B66	Front side	/	/	/	0.404	0.176	/	0.176	/	0.176	/	0.176	/	0.580	0.404
	Back side	/	/	/	0.746	0.384	/	0.384	/	0.384	/	0.384	/	1.130	0.746
	Left side	/	/	/	0.088	0.091	/	0.091	/	0.091	/	0.091	/	0.179	0.088
	Right side	/	/	/	0.520	0.119	/	0.119	/	0.119	/	0.119	/	0.639	0.520
	Top side	/	/	/	0.036	0.148	/	0.148	/	0.148	/	0.148	/	0.184	0.036
	Bottom side	/	/	/	0.322	0.041	/	0.041	/	0.041	/	0.041	/	0.363	0.322
LTE B48	Front side	/	/	/	/	/	0.212	/	0.212	/	0.212	/	0.212	/	0.212
	Back side	/	/	/	/	/	0.625	/	0.625	/	0.625	/	0.625	/	0.625
	Left side	/	/	/	/	/	0.405	/	0.405	/	0.405	/	0.405	/	0.405
	Right side	/	/	/	/	/	0.653	/	0.653	/	0.653	/	0.653	/	0.653
	Top side	/	/	/	/	/	0.071	/	0.071	/	0.071	/	0.071	/	0.071
	Bottom side	/	/	/	/	/	0.113	/	0.113	/	0.113	/	0.113	/	0.113



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LTE Band ULCA	Exposure position	Ant0	LTE B4		Inter-band CA Summed SAR	
			Ant1	Ant4		
		1	2	3	1+2	1+3
LTE B5	Front side	0.179	0.549	/	0.728	0.179
	Back side	0.453	0.695	/	1.148	0.453
	Left side	0.197	0.398	/	0.595	0.197
	Right side	0.286	0.285	/	0.571	0.286
	Top side	0.019	0.191	/	0.210	0.019
	Bottom side	0.172	0.097	/	0.269	0.172

LTE Band ULCA	Exposure position	Ant1	Ant4	LTE B5	Inter-band CA Summed SAR	
				Ant0		
		1	2	3	1+3	2+3
LTE B66	Front side	0.549	/	0.179	0.728	0.179
	Back side	0.695	/	0.453	1.148	0.453
	Left side	0.398	/	0.197	0.595	0.197
	Right side	0.285	/	0.286	0.571	0.286
	Top side	0.191	/	0.019	0.210	0.019
	Bottom side	0.097	/	0.172	0.269	0.172

LTE Band ULCA	Exposure position	Ant1	Ant4	LTE B48	Inter-band CA Summed SAR	
				Ant3		
		1	2	3	1+3	2+3
LTE B66	Front side	/	0.404	0.311	0.311	0.715
	Back side	/	0.746	0.396	0.396	1.142
	Left side	/	0.088	0.587	0.587	0.675
	Right side	/	0.520	0.150	0.150	0.670
	Top side	/	0.036	0.176	0.176	0.212
	Bottom side	/	0.322	0.144	0.144	0.466

Sum_ENDC(Hotspot):

LTE Band (EN_DC)	Exposure position	Ant0	Ant3	Ant4	n2	EN_DC Summed SAR		
					Ant1			
		1	2	3	4	1+4	2+4	3+4
Band 2	Front side	/	/	0.212	0.170	0.170	0.170	0.382
	Back side	/	/	0.625	0.383	0.383	0.383	1.008
	Left side	/	/	0.405	0.097	0.097	0.097	0.502
	Right side	/	/	0.653	0.209	0.209	0.209	0.862
	Top side	/	/	0.071	0.187	0.187	0.187	0.258
	Bottom side	/	/	0.113	0.041	0.041	0.041	0.154
Band 5	Front side	0.179	/	/	0.170	0.349	0.170	0.170
	Back side	0.453	/	/	0.383	0.836	0.383	0.383
	Left side	0.197	/	/	0.097	0.294	0.097	0.097



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	Right side	0.286	/	/	0.209	0.495	0.209	0.209
	Top side	0.019	/	/	0.187	0.206	0.187	0.187
	Bottom side	0.172	/	/	0.041	0.213	0.041	0.041
Band 13	Front side	0.332	/	/	0.170	0.502	0.170	0.170
	Back side	0.849	/	/	0.383	1.232	0.383	0.383
	Left side	0.373	/	/	0.097	0.470	0.097	0.097
	Right side	0.581	/	/	0.209	0.790	0.209	0.209
	Top side	0.040	/	/	0.187	0.227	0.187	0.187
	Bottom side	0.364	/	/	0.041	0.405	0.041	0.041
Band 66	Front side	/	/	0.404	0.170	0.170	0.170	0.574
	Back side	/	/	0.746	0.383	0.383	0.383	1.129
	Left side	/	/	0.088	0.097	0.097	0.097	0.185
	Right side	/	/	0.520	0.209	0.209	0.209	0.729
	Top side	/	/	0.036	0.187	0.187	0.187	0.223
	Bottom side	/	/	0.322	0.041	0.041	0.041	0.363
Band 48	Front side	/	0.311	/	0.170	0.170	0.481	0.170
	Back side	/	0.396	/	0.383	0.383	0.779	0.383
	Left side	/	0.587	/	0.097	0.097	0.684	0.097
	Right side	/	0.150	/	0.209	0.209	0.359	0.209
	Top side	/	0.176	/	0.187	0.187	0.363	0.187
	Bottom side	/	0.144	/	0.041	0.041	0.185	0.041

LTE Band (EN_DC)	Exposure position	Ant1	Ant3	Ant4	n5	EN_DC Summed SAR		
		1	2	3	Ant0	4	1+4	2+4
Band 2	Front side	0.176	/	/	0.149	0.325	0.149	0.149
	Back side	0.384	/	/	0.413	0.797	0.413	0.413
	Left side	0.091	/	/	0.103	0.194	0.103	0.103
	Right side	0.119	/	/	0.220	0.339	0.220	0.220
	Top side	0.148	/	/	0.042	0.190	0.042	0.042
	Bottom side	0.041	/	/	0.196	0.237	0.196	0.196
Band 66	Front side	/	/	0.404	0.149	0.149	0.149	0.553
	Back side	/	/	0.746	0.413	0.413	0.413	1.159
	Left side	/	/	0.088	0.103	0.103	0.103	0.191
	Right side	/	/	0.520	0.220	0.220	0.220	0.740
	Top side	/	/	0.036	0.042	0.042	0.042	0.078
	Bottom side	/	/	0.322	0.196	0.196	0.196	0.518
Band 48	Front side	/	0.311	/	0.149	0.149	0.460	0.149
	Back side	/	0.396	/	0.413	0.413	0.809	0.413
	Left side	/	0.587	/	0.103	0.103	0.690	0.103
	Right side	/	0.150	/	0.220	0.220	0.370	0.220
	Top side	/	0.176	/	0.042	0.042	0.218	0.042
	Bottom side	/	0.144	/	0.196	0.196	0.340	0.196



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LTE Band (EN_DC)	Exposure position	Ant0	Ant3	Ant4	n66	EN_DC Summed SAR		
					Ant1			
		1	2	3	4	1+4	2+4	3+4
Band 2	Front side	/	/	0.212	0.231	0.231	0.231	0.443
	Back side	/	/	0.625	0.414	0.414	0.414	1.039
	Left side	/	/	0.405	0.200	0.200	0.200	0.605
	Right side	/	/	0.653	0.149	0.149	0.149	0.802
	Top side	/	/	0.071	0.069	0.069	0.069	0.140
	Bottom side	/	/	0.113	0.049	0.049	0.049	0.162
Band 5	Front side	0.179	/	/	0.231	0.410	0.231	0.231
	Back side	0.453	/	/	0.414	0.867	0.414	0.414
	Left side	0.197	/	/	0.200	0.397	0.200	0.200
	Right side	0.286	/	/	0.149	0.435	0.149	0.149
	Top side	0.019	/	/	0.069	0.088	0.069	0.069
	Bottom side	0.172	/	/	0.049	0.221	0.049	0.049
Band 13	Front side	0.332	/	/	0.231	0.563	0.231	0.231
	Back side	0.849	/	/	0.414	1.263	0.414	0.414
	Left side	0.373	/	/	0.200	0.573	0.200	0.200
	Right side	0.581	/	/	0.149	0.730	0.149	0.149
	Top side	0.040	/	/	0.069	0.109	0.069	0.069
	Bottom side	0.364	/	/	0.049	0.413	0.049	0.049
Band 66	Front side	/	/	0.404	0.231	0.231	0.231	0.635
	Back side	/	/	0.746	0.414	0.414	0.414	1.160
	Left side	/	/	0.088	0.200	0.200	0.200	0.288
	Right side	/	/	0.520	0.149	0.149	0.149	0.669
	Top side	/	/	0.036	0.069	0.069	0.069	0.105
	Bottom side	/	/	0.322	0.049	0.049	0.049	0.371
Band 48	Front side	/	0.311	/	0.231	0.231	0.542	0.231
	Back side	/	0.396	/	0.414	0.414	0.810	0.414
	Left side	/	0.587	/	0.200	0.200	0.787	0.200
	Right side	/	0.150	/	0.149	0.149	0.299	0.149
	Top side	/	0.176	/	0.069	0.069	0.245	0.069
	Bottom side	/	0.144	/	0.049	0.049	0.193	0.049

LTE Band (EN_DC)	Exposure position	Ant0	Ant3	Ant4	n77	EN_DC Summed SAR		
					Ant3			
		1	2	3	4	1+4	2+4	3+4
Band 2	Front side	/	/	0.212	0.196	0.196	0.196	0.408
	Back side	/	/	0.625	0.340	0.340	0.340	0.965
	Left side	/	/	0.405	0.596	0.596	0.596	1.001
	Right side	/	/	0.653	0.047	0.047	0.047	0.700
	Top side	/	/	0.071	0.119	0.119	0.119	0.190



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	Bottom side	/	/	0.113	0.078	0.078	0.078	0.191
Band 5	Front side	0.179	/	/	0.196	0.375	0.196	0.196
	Back side	0.453	/	/	0.340	0.793	0.340	0.340
	Left side	0.197	/	/	0.596	0.793	0.596	0.596
	Right side	0.286	/	/	0.047	0.333	0.047	0.047
	Top side	0.019	/	/	0.119	0.138	0.119	0.119
	Bottom side	0.172	/	/	0.078	0.250	0.078	0.078
Band 13	Front side	0.332	/	/	0.196	0.528	0.196	0.196
	Back side	0.849	/	/	0.340	1.189	0.340	0.340
	Left side	0.373	/	/	0.596	0.969	0.596	0.596
	Right side	0.581	/	/	0.047	0.628	0.047	0.047
	Top side	0.040	/	/	0.119	0.159	0.119	0.119
	Bottom side	0.364	/	/	0.078	0.442	0.078	0.078
Band 66	Front side	/	/	0.404	0.196	0.196	0.196	0.600
	Back side	/	/	0.746	0.340	0.340	0.340	1.086
	Left side	/	/	0.088	0.596	0.596	0.596	0.684
	Right side	/	/	0.520	0.047	0.047	0.047	0.567
	Top side	/	/	0.036	0.119	0.119	0.119	0.155
	Bottom side	/	/	0.322	0.078	0.078	0.078	0.400

Sum_Hotspot:

Test position		SARmax (W/kg)			Summed SAR
		WiFi 2.4G Ant5	WiFi 5G Ant5	BT	
		2	3	4	
WLAN	Front side	0.035	0.098	0.060	0.158
	Back side	0.085	0.163	0.058	0.221
	Left side	0.053	0.218	0.069	0.287
	Right side	0.191	0.410	0.109	0.519
	Top side	0.067	0.170	0.042	0.212
	Bottom side	0.060	0.173	0.039	0.212

Test position		SARmax (W/kg)				Summed SAR			
		WWAN Max SAR Ant0	WiFi 2.4G Ant5	WiFi 5G Ant5	BT				
		1	2	3	4				
GSM850	Front side	0.531	0.035	0.098	0.060	0.566	0.629	0.591	0.689
	Back side	1.187	0.085	0.163	0.058	1.272	1.350	1.245	1.408
	Left side	0.427	0.053	0.218	0.069	0.480	0.645	0.496	0.714
	Right side	0.760	0.191	0.410	0.109	0.951	1.170	0.869	1.279
	Top side	0.044	0.067	0.170	0.042	0.111	0.214	0.086	0.256
	Bottom side	0.429	0.060	0.173	0.039	0.489	0.602	0.468	0.641
WCDMA B5	Front side	0.408	0.035	0.098	0.060	0.443	0.506	0.468	0.566
	Back side	0.972	0.085	0.163	0.058	1.057	1.135	1.030	1.193
	Left side	0.404	0.053	0.218	0.069	0.457	0.622	0.473	0.691



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	Right side	0.607	0.191	0.410	0.109	0.798	1.017	0.716	1.126
	Top side	0.057	0.067	0.170	0.042	0.124	0.227	0.099	0.269
	Bottom side	0.384	0.060	0.173	0.039	0.444	0.557	0.423	0.596
LTE B5	Front side	0.358	0.035	0.098	0.060	0.393	0.456	0.418	0.516
	Back side	0.904	0.085	0.163	0.058	0.989	1.067	0.962	1.125
	Left side	0.394	0.053	0.218	0.069	0.447	0.612	0.463	0.681
	Right side	0.571	0.191	0.410	0.109	0.762	0.981	0.680	1.090
	Top side	0.038	0.067	0.170	0.042	0.105	0.208	0.080	0.250
	Bottom side	0.344	0.060	0.173	0.039	0.404	0.517	0.383	0.556
LTE B12	Front side	0.316	0.035	0.098	0.060	0.351	0.414	0.376	0.474
	Back side	1.024	0.085	0.163	0.058	1.109	1.187	1.082	1.245
	Left side	0.322	0.053	0.218	0.069	0.375	0.540	0.391	0.609
	Right side	0.592	0.191	0.410	0.109	0.783	1.002	0.701	1.111
	Top side	0.043	0.067	0.170	0.042	0.110	0.213	0.085	0.255
	Bottom side	0.215	0.060	0.173	0.039	0.275	0.388	0.254	0.427
LTE B13	Front side	0.332	0.035	0.098	0.060	0.367	0.430	0.392	0.490
	Back side	0.849	0.085	0.163	0.058	0.934	1.012	0.907	1.070
	Left side	0.373	0.053	0.218	0.069	0.426	0.591	0.442	0.660
	Right side	0.581	0.191	0.410	0.109	0.772	0.991	0.690	1.100
	Top side	0.040	0.067	0.170	0.042	0.107	0.210	0.082	0.252
	Bottom side	0.364	0.060	0.173	0.039	0.424	0.537	0.403	0.576
N5	Front side	0.298	0.035	0.098	0.060	0.333	0.396	0.358	0.456
	Back side	0.824	0.085	0.163	0.058	0.909	0.987	0.882	1.045
	Left side	0.205	0.053	0.218	0.069	0.258	0.423	0.274	0.492
	Right side	0.438	0.191	0.410	0.109	0.629	0.848	0.547	0.957
	Top side	0.083	0.067	0.170	0.042	0.150	0.253	0.125	0.295
	Bottom side	0.391	0.060	0.173	0.039	0.451	0.564	0.430	0.603

Test position		SARmax (W/kg)				Summed SAR			
		WWAN Max SAR Ant1	WiFi 2.4G Ant5	WiFi 5G Ant5	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
GSM1900	Front side	0.453	0.035	0.098	0.060	0.488	0.551	0.513	0.611
	Back side	1.113	0.085	0.163	0.058	1.198	1.276	1.171	1.334
	Left side	0.202	0.053	0.218	0.069	0.255	0.420	0.271	0.489
	Right side	0.334	0.191	0.410	0.109	0.525	0.744	0.443	0.853
	Top side	0.327	0.067	0.170	0.042	0.394	0.497	0.369	0.539
	Bottom side	0.088	0.060	0.173	0.039	0.148	0.261	0.127	0.300
WCDMA B2	Front side	0.392	0.035	0.098	0.060	0.427	0.490	0.452	0.550
	Back side	0.973	0.085	0.163	0.058	1.058	1.136	1.031	1.194
	Left side	0.221	0.053	0.218	0.069	0.274	0.439	0.290	0.508
	Right side	0.293	0.191	0.410	0.109	0.484	0.703	0.402	0.812
	Top side	0.382	0.067	0.170	0.042	0.449	0.552	0.424	0.594
	Bottom side	0.104	0.060	0.173	0.039	0.164	0.277	0.143	0.316
LTE B2	Front side	0.212	0.035	0.098	0.060	0.247	0.310	0.272	0.370
	Back side	0.625	0.085	0.163	0.058	0.710	0.788	0.683	0.846
	Left side	0.405	0.053	0.218	0.069	0.458	0.623	0.474	0.692
	Right side	0.653	0.191	0.410	0.109	0.844	1.063	0.762	1.172
	Top side	0.071	0.067	0.170	0.042	0.138	0.241	0.113	0.283



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	Bottom side	0.113	0.060	0.173	0.039	0.173	0.286	0.152	0.325
LTE B66	Front side	0.549	0.035	0.098	0.060	0.584	0.647	0.609	0.707
	Back side	0.695	0.085	0.163	0.058	0.780	0.858	0.753	0.916
	Left side	0.398	0.053	0.218	0.069	0.451	0.616	0.467	0.685
	Right side	0.285	0.191	0.410	0.109	0.476	0.695	0.394	0.804
	Top side	0.191	0.067	0.170	0.042	0.258	0.361	0.233	0.403
	Bottom side	0.097	0.060	0.173	0.039	0.157	0.270	0.136	0.309
N2	Front side	0.339	0.035	0.098	0.060	0.374	0.437	0.399	0.497
	Back side	0.765	0.085	0.163	0.058	0.850	0.928	0.823	0.986
	Left side	0.193	0.053	0.218	0.069	0.246	0.411	0.262	0.480
	Right side	0.417	0.191	0.410	0.109	0.608	0.827	0.526	0.936
	Top side	0.372	0.067	0.170	0.042	0.439	0.542	0.414	0.584
	Bottom side	0.082	0.060	0.173	0.039	0.142	0.255	0.121	0.294
N66	Front side	0.460	0.035	0.098	0.060	0.495	0.558	0.520	0.618
	Back side	0.826	0.085	0.163	0.058	0.911	0.989	0.884	1.047
	Left side	0.400	0.053	0.218	0.069	0.453	0.618	0.469	0.687
	Right side	0.298	0.191	0.410	0.109	0.489	0.708	0.407	0.817
	Top side	0.138	0.067	0.170	0.042	0.205	0.308	0.180	0.350
	Bottom side	0.099	0.060	0.173	0.039	0.159	0.272	0.138	0.311

Test position		SARmax (W/kg)				Summed SAR			
		WWAN Max SAR Ant3	WiFi 2.4G Ant5	WiFi 5G Ant5	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
LTE B48	Front side	0.311	0.035	0.098	0.060	0.346	0.409	0.371	0.469
	Back side	0.396	0.085	0.163	0.058	0.481	0.559	0.454	0.617
	Left side	0.587	0.053	0.218	0.069	0.640	0.805	0.656	0.874
	Right side	0.150	0.191	0.410	0.109	0.341	0.560	0.259	0.669
	Top side	0.176	0.067	0.170	0.042	0.243	0.346	0.218	0.388
	Bottom side	0.144	0.060	0.173	0.039	0.204	0.317	0.183	0.356
N48	Front side	0.394	0.035	0.098	0.060	0.429	0.492	0.454	0.552
	Back side	0.727	0.085	0.163	0.058	0.812	0.890	0.785	0.948
	Left side	1.186	0.053	0.218	0.069	1.239	1.404	1.255	1.473
	Right side	0.390	0.191	0.410	0.109	0.581	0.800	0.499	0.909
	Top side	0.283	0.067	0.170	0.042	0.350	0.453	0.325	0.495
	Bottom side	0.271	0.060	0.173	0.039	0.331	0.444	0.310	0.483
N77	Front side	0.391	0.035	0.098	0.060	0.426	0.489	0.451	0.549
	Back side	0.678	0.085	0.163	0.058	0.763	0.841	0.736	0.899
	Left side	1.190	0.053	0.218	0.069	1.243	1.408	1.259	1.477
	Right side	0.095	0.191	0.410	0.109	0.286	0.505	0.204	0.614
	Top side	0.237	0.067	0.170	0.042	0.304	0.407	0.279	0.449
	Bottom side	0.155	0.060	0.173	0.039	0.215	0.328	0.194	0.367

Test position		SARmax (W/kg)				Summed SAR			
		WWAN Max SAR Ant4	WiFi 2.4G Ant5	WiFi 5G Ant5	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
LTE B2	Front side	0.212	0.035	0.098	0.060	0.247	0.310	0.272	0.370



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LTE B66	Back side	0.625	0.085	0.163	0.058	0.710	0.788	0.683	0.846
	Left side	0.405	0.053	0.218	0.069	0.458	0.623	0.474	0.692
	Right side	0.653	0.191	0.410	0.109	0.844	1.063	0.762	1.172
	Top side	0.071	0.067	0.170	0.042	0.138	0.241	0.113	0.283
	Bottom side	0.113	0.060	0.173	0.039	0.173	0.286	0.152	0.325
	Front side	0.404	0.035	0.098	0.060	0.439	0.502	0.464	0.562
	Back side	0.746	0.085	0.163	0.058	0.831	0.909	0.804	0.967
	Left side	0.088	0.053	0.218	0.069	0.141	0.306	0.157	0.375
	Right side	0.520	0.191	0.410	0.109	0.711	0.930	0.629	1.039
	Top side	0.036	0.067	0.170	0.042	0.103	0.206	0.078	0.248
	Bottom side	0.322	0.060	0.173	0.039	0.382	0.495	0.361	0.534

Test position		SARmax (W/kg)				Summed SAR			
		Inter-band UL CA	WiFi 2.4G Ant5	WiFi 5G Ant5	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
CA_2A-4A	Front side	0.580	0.035	0.098	0.060	0.615	0.678	0.640	0.738
	Back side	1.130	0.085	0.163	0.058	1.215	1.293	1.188	1.351
	Left side	0.179	0.053	0.218	0.069	0.232	0.397	0.248	0.466
	Right side	0.639	0.191	0.410	0.109	0.830	1.049	0.748	1.158
	Top side	0.184	0.067	0.170	0.042	0.251	0.354	0.226	0.396
	Bottom side	0.363	0.060	0.173	0.039	0.423	0.536	0.402	0.575
CA_2A-5A	Front side	0.355	0.035	0.098	0.060	0.390	0.453	0.415	0.513
	Back side	0.837	0.085	0.163	0.058	0.922	1.000	0.895	1.058
	Left side	0.288	0.053	0.218	0.069	0.341	0.506	0.357	0.575
	Right side	0.405	0.191	0.410	0.109	0.596	0.815	0.514	0.924
	Top side	0.167	0.067	0.170	0.042	0.234	0.337	0.209	0.379
	Bottom side	0.213	0.060	0.173	0.039	0.273	0.386	0.252	0.425
CA_2A-13A	Front side	0.508	0.035	0.098	0.060	0.543	0.606	0.568	0.666
	Back side	1.233	0.085	0.163	0.058	1.318	1.396	1.291	1.454
	Left side	0.464	0.053	0.218	0.069	0.517	0.682	0.533	0.751
	Right side	0.700	0.191	0.410	0.109	0.891	1.110	0.809	1.219
	Top side	0.188	0.067	0.170	0.042	0.255	0.358	0.230	0.400
	Bottom side	0.405	0.060	0.173	0.039	0.465	0.578	0.444	0.617
CA_2A-66A	Front side	0.580	0.035	0.098	0.060	0.615	0.678	0.640	0.738
	Back side	1.130	0.085	0.163	0.058	1.215	1.293	1.188	1.351
	Left side	0.179	0.053	0.218	0.069	0.232	0.397	0.248	0.466
	Right side	0.639	0.191	0.410	0.109	0.830	1.049	0.748	1.158
	Top side	0.184	0.067	0.170	0.042	0.251	0.354	0.226	0.396
	Bottom side	0.363	0.060	0.173	0.039	0.423	0.536	0.402	0.575
CA_2A-48A	Front side	0.212	0.035	0.098	0.060	0.247	0.310	0.272	0.370
	Back side	0.625	0.085	0.163	0.058	0.710	0.788	0.683	0.846
	Left side	0.405	0.053	0.218	0.069	0.458	0.623	0.474	0.692
	Right side	0.653	0.191	0.410	0.109	0.844	1.063	0.762	1.172
	Top side	0.071	0.067	0.170	0.042	0.138	0.241	0.113	0.283
	Bottom side	0.113	0.060	0.173	0.039	0.173	0.286	0.152	0.325
CA_4A-5A	Front side	0.728	0.035	0.098	0.060	0.763	0.826	0.788	0.886
	Back side	1.148	0.085	0.163	0.058	1.233	1.311	1.206	1.369
	Left side	0.595	0.053	0.218	0.069	0.648	0.813	0.664	0.882
	Right side	0.571	0.191	0.410	0.109	0.762	0.981	0.680	1.090



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	Top side	0.210	0.067	0.170	0.042	0.277	0.380	0.252	0.422
	Bottom side	0.269	0.060	0.173	0.039	0.329	0.442	0.308	0.481
CA_5A-66A	Front side	0.728	0.035	0.098	0.060	0.763	0.826	0.788	0.886
	Back side	1.148	0.085	0.163	0.058	1.233	1.311	1.206	1.369
	Left side	0.595	0.053	0.218	0.069	0.648	0.813	0.664	0.882
	Right side	0.571	0.191	0.410	0.109	0.762	0.981	0.680	1.090
	Top side	0.210	0.067	0.170	0.042	0.277	0.380	0.252	0.422
	Bottom side	0.269	0.060	0.173	0.039	0.329	0.442	0.308	0.481
	Front side	0.715	0.035	0.098	0.060	0.750	0.813	0.775	0.873
	Back side	1.142	0.085	0.163	0.058	1.227	1.305	1.200	1.363
CA_48A-66A	Left side	0.675	0.053	0.218	0.069	0.728	0.893	0.744	0.962
	Right side	0.670	0.191	0.410	0.109	0.861	1.080	0.779	1.189
	Top side	0.212	0.067	0.170	0.042	0.279	0.382	0.254	0.424
	Bottom side	0.466	0.060	0.173	0.039	0.526	0.639	0.505	0.678

Test position		SARmax (W/kg)				Summed SAR			
		EN-DC Max SAR	WiFi 2.4G Ant5	WiFi 5G Ant5	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
n2-B2	Front side	0.382	0.035	0.098	0.060	0.417	0.480	0.442	0.540
	Back side	1.008	0.085	0.163	0.058	1.093	1.171	1.066	1.229
	Left side	0.502	0.053	0.218	0.069	0.555	0.720	0.571	0.789
	Right side	0.862	0.191	0.410	0.109	1.053	1.272	0.971	1.381
	Top side	0.258	0.067	0.170	0.042	0.325	0.428	0.300	0.470
	Bottom side	0.154	0.060	0.173	0.039	0.214	0.327	0.193	0.366
n2-B5	Front side	0.349	0.035	0.098	0.060	0.384	0.447	0.409	0.507
	Back side	0.836	0.085	0.163	0.058	0.921	0.999	0.894	1.057
	Left side	0.294	0.053	0.218	0.069	0.347	0.512	0.363	0.581
	Right side	0.495	0.191	0.410	0.109	0.686	0.905	0.604	1.014
	Top side	0.206	0.067	0.170	0.042	0.273	0.376	0.248	0.418
	Bottom side	0.213	0.060	0.173	0.039	0.273	0.386	0.252	0.425
n2-B13	Front side	0.502	0.035	0.098	0.060	0.537	0.600	0.562	0.660
	Back side	1.232	0.085	0.163	0.058	1.317	1.395	1.290	1.453
	Left side	0.470	0.053	0.218	0.069	0.523	0.688	0.539	0.757
	Right side	0.790	0.191	0.410	0.109	0.981	1.200	0.899	1.309
	Top side	0.227	0.067	0.170	0.042	0.294	0.397	0.269	0.439
	Bottom side	0.405	0.060	0.173	0.039	0.465	0.578	0.444	0.617
n2-B66	Front side	0.574	0.035	0.098	0.060	0.609	0.672	0.634	0.732
	Back side	1.129	0.085	0.163	0.058	1.214	1.292	1.187	1.350
	Left side	0.185	0.053	0.218	0.069	0.238	0.403	0.254	0.472
	Right side	0.729	0.191	0.410	0.109	0.920	1.139	0.838	1.248
	Top side	0.223	0.067	0.170	0.042	0.290	0.393	0.265	0.435
	Bottom side	0.363	0.060	0.173	0.039	0.423	0.536	0.402	0.575
n2-B48	Front side	0.481	0.035	0.098	0.060	0.516	0.579	0.541	0.639
	Back side	0.779	0.085	0.163	0.058	0.864	0.942	0.837	1.000
	Left side	0.684	0.053	0.218	0.069	0.737	0.902	0.753	0.971
	Right side	0.359	0.191	0.410	0.109	0.550	0.769	0.468	0.878
	Top side	0.363	0.067	0.170	0.042	0.430	0.533	0.405	0.575
	Bottom side	0.185	0.060	0.173	0.039	0.245	0.358	0.224	0.397



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n5-B2	Front side	0.325	0.035	0.098	0.060	0.360	0.423	0.385	0.483
	Back side	0.797	0.085	0.163	0.058	0.882	0.960	0.855	1.018
	Left side	0.194	0.053	0.218	0.069	0.247	0.412	0.263	0.481
	Right side	0.339	0.191	0.410	0.109	0.530	0.749	0.448	0.858
	Top side	0.190	0.067	0.170	0.042	0.257	0.360	0.232	0.402
	Bottom side	0.237	0.060	0.173	0.039	0.297	0.410	0.276	0.449
n5-B66	Front side	0.553	0.035	0.098	0.060	0.588	0.651	0.613	0.711
	Back side	1.159	0.085	0.163	0.058	1.244	1.322	1.217	1.380
	Left side	0.191	0.053	0.218	0.069	0.244	0.409	0.260	0.478
	Right side	0.740	0.191	0.410	0.109	0.931	1.150	0.849	1.259
	Top side	0.078	0.067	0.170	0.042	0.145	0.248	0.120	0.290
	Bottom side	0.518	0.060	0.173	0.039	0.578	0.691	0.557	0.730
n5-B48	Front side	0.460	0.035	0.098	0.060	0.495	0.558	0.520	0.618
	Back side	0.809	0.085	0.163	0.058	0.894	0.972	0.867	1.030
	Left side	0.690	0.053	0.218	0.069	0.743	0.908	0.759	0.977
	Right side	0.370	0.191	0.410	0.109	0.561	0.780	0.479	0.889
	Top side	0.218	0.067	0.170	0.042	0.285	0.388	0.260	0.430
	Bottom side	0.340	0.060	0.173	0.039	0.400	0.513	0.379	0.552
n66-B2	Front side	0.443	0.035	0.098	0.060	0.478	0.541	0.503	0.601
	Back side	1.039	0.085	0.163	0.058	1.124	1.202	1.097	1.260
	Left side	0.605	0.053	0.218	0.069	0.658	0.823	0.674	0.892
	Right side	0.802	0.191	0.410	0.109	0.993	1.212	0.911	1.321
	Top side	0.140	0.067	0.170	0.042	0.207	0.310	0.182	0.352
	Bottom side	0.162	0.060	0.173	0.039	0.222	0.335	0.201	0.374
n66-B5	Front side	0.410	0.035	0.098	0.060	0.445	0.508	0.470	0.568
	Back side	0.867	0.085	0.163	0.058	0.952	1.030	0.925	1.088
	Left side	0.397	0.053	0.218	0.069	0.450	0.615	0.466	0.684
	Right side	0.435	0.191	0.410	0.109	0.626	0.845	0.544	0.954
	Top side	0.088	0.067	0.170	0.042	0.155	0.258	0.130	0.300
	Bottom side	0.221	0.060	0.173	0.039	0.281	0.394	0.260	0.433
n66-B13	Front side	0.563	0.035	0.098	0.060	0.598	0.661	0.623	0.721
	Back side	1.263	0.085	0.163	0.058	1.348	1.426	1.321	1.484
	Left side	0.573	0.053	0.218	0.069	0.626	0.791	0.642	0.860
	Right side	0.730	0.191	0.410	0.109	0.921	1.140	0.839	1.249
	Top side	0.109	0.067	0.170	0.042	0.176	0.279	0.151	0.321
	Bottom side	0.413	0.060	0.173	0.039	0.473	0.586	0.452	0.625
n66-B66	Front side	0.635	0.035	0.098	0.060	0.670	0.733	0.695	0.793
	Back side	1.160	0.085	0.163	0.058	1.245	1.323	1.218	1.381
	Left side	0.288	0.053	0.218	0.069	0.341	0.506	0.357	0.575
	Right side	0.669	0.191	0.410	0.109	0.860	1.079	0.778	1.188
	Top side	0.105	0.067	0.170	0.042	0.172	0.275	0.147	0.317
	Bottom side	0.371	0.060	0.173	0.039	0.431	0.544	0.410	0.583
n66-B48	Front side	0.542	0.035	0.098	0.060	0.577	0.640	0.602	0.700
	Back side	0.810	0.085	0.163	0.058	0.895	0.973	0.868	1.031
	Left side	0.787	0.053	0.218	0.069	0.840	1.005	0.856	1.074
	Right side	0.299	0.191	0.410	0.109	0.490	0.709	0.408	0.818
	Top side	0.245	0.067	0.170	0.042	0.312	0.415	0.287	0.457
	Bottom side	0.193	0.060	0.173	0.039	0.253	0.366	0.232	0.405
n77-B2	Front side	0.408	0.035	0.098	0.060	0.443	0.506	0.468	0.566
	Back side	0.965	0.085	0.163	0.058	1.050	1.128	1.023	1.186



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	Left side	1.001	0.053	0.218	0.069	1.054	1.219	1.070	1.288
	Right side	0.700	0.191	0.410	0.109	0.891	1.110	0.809	1.219
	Top side	0.190	0.067	0.170	0.042	0.257	0.360	0.232	0.402
	Bottom side	0.191	0.060	0.173	0.039	0.251	0.364	0.230	0.403
n77-B5	Front side	0.375	0.035	0.098	0.060	0.410	0.473	0.435	0.533
	Back side	0.793	0.085	0.163	0.058	0.878	0.956	0.851	1.014
	Left side	0.793	0.053	0.218	0.069	0.846	1.011	0.862	1.080
	Right side	0.333	0.191	0.410	0.109	0.524	0.743	0.442	0.852
	Top side	0.138	0.067	0.170	0.042	0.205	0.308	0.180	0.350
	Bottom side	0.250	0.060	0.173	0.039	0.310	0.423	0.289	0.462
n77-B13	Front side	0.528	0.035	0.098	0.060	0.563	0.626	0.588	0.686
	Back side	1.189	0.085	0.163	0.058	1.274	1.352	1.247	1.410
	Left side	0.969	0.053	0.218	0.069	1.022	1.187	1.038	1.256
	Right side	0.628	0.191	0.410	0.109	0.819	1.038	0.737	1.147
	Top side	0.159	0.067	0.170	0.042	0.226	0.329	0.201	0.371
	Bottom side	0.442	0.060	0.173	0.039	0.502	0.615	0.481	0.654
n77-B66	Front side	0.600	0.035	0.098	0.060	0.635	0.698	0.660	0.758
	Back side	1.086	0.085	0.163	0.058	1.171	1.249	1.144	1.307
	Left side	0.684	0.053	0.218	0.069	0.737	0.902	0.753	0.971
	Right side	0.567	0.191	0.410	0.109	0.758	0.977	0.676	1.086
	Top side	0.155	0.067	0.170	0.042	0.222	0.325	0.197	0.367
	Bottom side	0.400	0.060	0.173	0.039	0.460	0.573	0.439	0.612



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9 Equipment list

Test Platform		SPEAG DASY Professional				
Description		SAR Test System				
Software Reference		DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)				
Hardware Reference						
Equipment		Manufacturer	Model	Inventory No.	Calibration Date	Due date of calibration
☒	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-020	NCR	NCR
☒	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-022	NCR	NCR
☒	DAE	SPEAG	DAE4	SZ-WSR-M-029	2025/01/20	2026/01/19
☒	DAE	SPEAG	DAE4	SZ-WSR-M-081	2025/08/29	2026/08/28
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-068	2025/01/15	2026/01/14
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-027	2025/08/26	2026/08/25
☒	Validation Kits	SPEAG	D750V3	SZ-WSR-M-032	2025/06/18	2028/06/17
☒	Validation Kits	SPEAG	D835V2	SZ-WSR-M-033	2022/11/02	2025/11/01
☒	Validation Kits	SPEAG	D1750V2	SZ-WSR-M-035	2025/06/18	2028/06/17
☒	Validation Kits	SPEAG	D1900V2	SZ-WSR-M-036	2022/11/02	2025/11/01
☒	Validation Kits	SPEAG	D2450V2	SZ-WSR-M-039	2022/11/02	2025/11/01
☒	Validation Kits	SPEAG	D3500V2	SZ-WSR-R-032	2023/05/15	2026/05/14
☒	Validation Kits	SPEAG	D3700V2	SZ-WSR-R-026	2025/01/16	2028/01/15
☒	Validation Kits	SPEAG	D3900V2	SZ-WSR-R-027	2024/10/14	2027/10/13
☒	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
☒	Agilent Network Analyzer	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	2025/08/14	2026/08/13
☒	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-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 ---