

SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR250200051006

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FCC SAR TEST REPORT

SZCR2502000510WM **Application No.:** Applicant: TCL Communication Ltd.

5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Address of Applicant:

Shatin, NT, Hong Kong

Manufacturer: TCL Communication Ltd.

5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Address of Manufacturer:

Shatin, NT, Hong Kong

EUT Description: Mobile Phone

Model No.: T450A Trade Mark: Alcatel

FCC ID: 2ACCJB235

Standards: FCC 47CFR §2.1093

Date of Receipt: 2025-01-15

Date of Test: 2025-01-17 to 2025-03-25

Date of Issue: 2025-03-31

PASS * Test Result:

Kenv Xu **EMC Laboratory Manager**

Keny. Ku



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



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		Revision Record		
Version	Chapter	Date	Modifier	Remark
01		2025-03-31		Original

Authorized for issue by:		
	Darren Yvan	
	Darren Yuan/Project Engineer	-
	Exic Fu	
	Eric Fu/Reviewer	-



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TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)			
	Head	Body-worn&Hotspot	Product specific 10g SAR	
GSM850	1.33	0.69	/	
GSM1900	<0.10	0.62	/	
WCDMA Band II	0.15	1.11	/	
WCDMA Band IV	0.19	0.82	/	
WCDMA Band V	0.99	0.48	/	
LTE Band 2	0.16	1.08	/	
LTE Band 7	<0.10	0.88	/	
LTE Band 12/17	0.51	0.33	/	
LTE Band 13	0.53	0.37	/	
LTE Band 26/5	1.08	0.48	/	
LTE Band 41/38	<0.10	0.9	/	
LTE Band 66/4	0.16	1.19	/	
WI-FI (2.4GHz)	0.26	0.14	1	
ВТ	<0.10	<0.10	/	
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	1.50	1.19	1	
SPLSR	/	/	/	
SPLSR Limited	0.04		0.1	

Note: The Simultaneous transmission SAR is the same test position of the WWAN Antenna + WiFi/BT Antenna.



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According to TCB workshop (Overlapping LTE Bands): SAR in LTE band 4 is covered by LTE band 66. SAR in LTE band 5 is covered by LTE band 26. SAR in LTE band 17 is covered by LTE band 12. SAR in LTE band 38 is covered by LTE band 41. 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.



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General Information 1

1.1 General Description of EUT

Product Name:	Mobile Phone		
Model No.:	T450A		
Trade Mark:	Alcatel		
Product Phase:	production unit		
Device Type:	portable device		
Exposure Category:	uncontrolled environme	ent / general population	
IMEI:	356790420003580; 35	6790420003523; 35679042	20003762
Hardware Version:	V00		
Software Version:	450DA11		
Antenna Type:	PIFA Antenna		
Device Operating Configurations:			
Modulation Mode:	GSM:GMSK,8PSK; WCDMA:QPSK,16QAM LTE:QPSK,16QAM,64QAM WIFI:DSSS,OFDM; BT:GFSK, π/4DQPSK,8DPSK		<
Device Class:	В		
GPRS Multi-slots Class:	12	EGPRS Multi-slots Class:	12
HSDPA UE Category:	24 HSUPA UE Category: 7		7
DC-HSDPA UE Category:	24		
	4, tested with power level 5(GSM850)		
Power Class:	1, tested with power level 0(GSM1900)		
rowel Class.	3, tested with power control "all 1"(WCDMA Band)		
	3, tested with power control "max power"(LTE Band)		
	Band	Tx(MHz)	Rx(MHz)
	GSM850	824~849	869~894
	GSM1900	1850~1910	1930~1990
	WCDMA Band II	1850~1910	1930~1990
Frequency Bands:	WCDMA Band IV	1710~1755	2110~2155
	WCDMA Band V	824~849	869~894
	LTE Band 2	1850 ~1910	1930 ~1990
	LTE Band 4	1710~1755	2110~2155
	LTE Band 5	824~849	869-894



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	LTE Band 7	2500~2570	2620~2690
	LTE Band 12	699~716	729~746
	LTE Band 13	777~787	746~756
	LTE Band 17	704-716	734-746
	LTE Band 26	814~849	859~894
	LTE Band 38	2570~2620	2570~2620
	LTE Band 41	2496~2690	2496~2690
	LTE Band 66	1710~1780	2110~2200
	WIFI 2.4G	2412~2462	2412~2462
	ВТ	2402~2480	2402~2480
RF Cable:	⊠Provided by applicant	☐Provided by the laboratory	
	Model:	TLp049LB	
Datta v.d. Information.	Normal Voltage:	3.87V	
Battery1 Information:	Typical Capacity:	5010mAh	
	Brand Name:	TCL	
Battery2 Information:	Model:	TLp049L9	
	Normal Voltage:	3.87V	
	Typical Capacity:	5010mAh	
	Brand Name:	TCL	
		1	

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.

Remark:

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For Model. T450A:

Remark:

This test report (Report No.: SZCR250200051006 issue on 2025/03/31) is based on the original test report (Report No.: SZCR250100020706 issue on 2025/02/10).

Review this report and original report, this report just changing the parts according to the declaration letter from client. Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore, in this report, SAR underwent a complete and new test, and the conducted power was shared by all frequency bands except for WCDMA B4, using the previous conducted data with report number SZCR250100020706 issue on 2025/02/10.



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1.1.1 DUT Antenna Locations (Back View)

The DUT Antenna Locations can be referred to Appendix D Note:

- 1) The test device is a smart phone. The overall diagonal dimension of this device is 175mm. Per KDB 648474 D04, because the diagonal distance of this device is ≥160mm, so it is a phablet.
- 2) According to the distance between WWAN/WIFI/BT antennas and the sides of the EUT we can draw the conclusion as below, When the antenna-to-edge distance is greater than 25mm, such position does not need to be tested.

Distance of the Antenna to the EUT surface/edge						
Mode	Front	Back	Left	Right	Тор	Bottom
Ant1	≤25mm	≤25mm	≤25mm	≤25mm	>25mm	≤25mm
Ant2	≤25mm	≤25mm	≤25mm	≤25mm	≤25mm	>25mm
Ant3	≤25mm	≤25mm	>25mm	≤25mm	≤25mm	>25mm





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1.1.2 Power reduction specification

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

1) 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.

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



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1.2 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 941225 D01	3G SAR Measurement Procedures v03r01
KDB 941225 D05	SAR for LTE Devices v02r05
KDB 941225 D05A	LTE Rel.10 KDB Inquiry Sheet v01r02
KDB 941225 D06	Hotspot Mode SAR v02r01
KDB 248227 D01	SAR Guidance for IEEE 802 11 Wi-Fi SAR v02r02
KDB 648474 D04	Handset SAR v01r03
KDB 447498 D04	Interim General RF Exposure Guidance v01
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02
KDB 690783 D01	SAR Listings on Grants v01r03



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1.3 RF exposure limits

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

Notes:

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

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



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

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

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



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1.4 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

1.5 Test Facility

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

A2LA (Certificate No. 3816.01)

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

• VCCI (Member No. 1937)

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

FCC –Designation Number: CN1336

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

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

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.





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Laboratory Environment 2

Temperature	Min. = 18°C, Max. = 25 °C	
Relative humidity	Min. = 30%, Max. = 70%	
Ground system resistance	< 0.5 Ω	
Ambient noise is checked and found very low and in compliance with requirement of standards.		
Reflection of surrounding objects is minimized and in compliance with requirement of standards.		



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3 SAR Measurements System Configuration

3.1 The SAR Measurement System

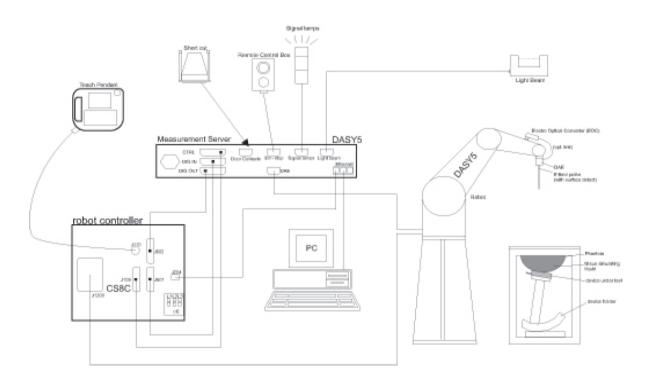
This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR= σ (|Ei|2)/ ρ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

The DASY system for performing compliance tests consists of the following items:
A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software. An arm extension for accommodation the data acquisition electronics (DAE).

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

A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.





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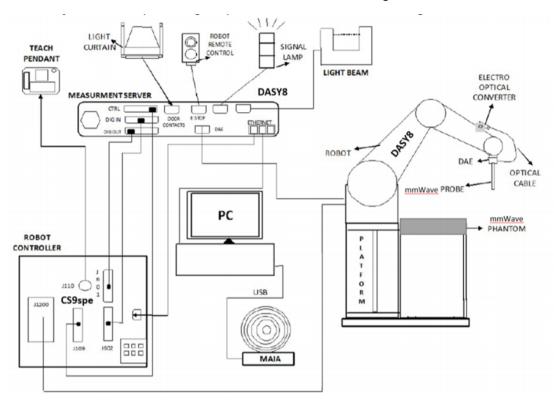
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F-1. SAR Measurement System Configuration

- 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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Isotropic E-field Proble EX3DV4 3.2

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



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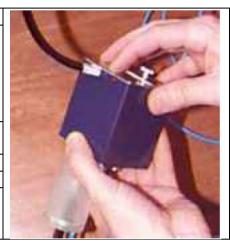
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3.3 **Data Acquisition Electronics (DAE)**

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



SAM Twin Phantom 3.4

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.



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3.5 **ELI Phantom**

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





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3.6 **Device Holder for Transmitters**



F-2. Device Holder for Transmitters

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





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Measurement Procedure 3.7

3.7.1 Scanning procedure

Step 1: Power reference measurement

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

Step 2: Area scan

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

Step 3: Zoom scan

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

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

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





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			≤ 3 GHz	> 3 GHz		
Maximum distance from			5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$		
Maximum probe angle surface normal at the n			30° ± 1°	20° ± 1°		
			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm		
Maximum area scan sp	atial resoli	ation: ∆x _{Area} , ∆y _{Area}	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.			
Maximum zoom scan s	patial reso	lution: Δx _{Zoom} , Δy _{Zoom}	\leq 2 GHz: \leq 8 mm 2 - 3 GHz: \leq 5 mm [*]	$3 - 4 \text{ GHz} \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz} \le 4 \text{ mm}^*$		
	uniform	grid: Δz _{Z∞m} (n)	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm		
Maximum zoom scan spatial resolution, normal to phantom surface	graded	Δz _{Zoom} (1): between 1 st two points closest to phantom surface		≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm	
	grid	Δz _{Zoom} (n>1): between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n\text{-}1)$			
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm		

Step 4: Power reference measurement (drift)

The Power Drift Measurement job measures the field at the same location as the most recent power reference measurement job within the same procedure, and with the same settings. The indicated drift is mainly the variation of the DUT's output power and should vary max. \pm 5 %



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3.7.2 Data storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension "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

- Crest factor Media parameters: - Conductivity

- Density

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.

3

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

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

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

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

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

cf = crest factor of exciting field (DASY parameter)

dcp I = diode compression point (DASY parameter)

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

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

H-field probes:

 $H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1}f + a_{i2}f^2)/f$ With Vi = compensated signal of channel I (I = x, y, z)

Normi = sensor sensitivity of channel I

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

ConvF = sensitivity enhancement in solution

aij = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

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

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

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

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

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

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

SAR = local specific absorption rate in mW/g with

Etot = total field strength in V/m

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

ε= equivalent tissue density in g/cm3

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

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

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

Etot = total electric field strength in V/m

Htot = total magnetic field strength in A/m



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4 SAR measurement variability and uncertainty

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

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is >

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.



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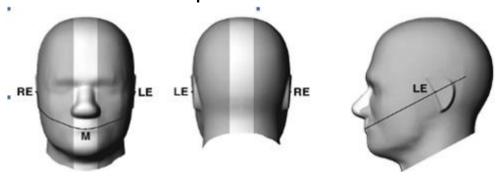
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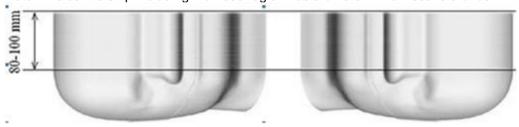
5 **Desciption of Test Position**

5.1 The Head Test Position

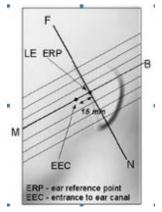
5.1.1 SAM Phantom Shape



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



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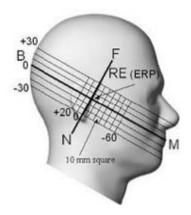
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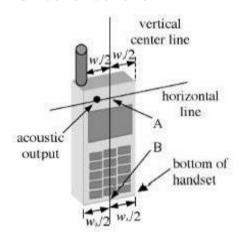
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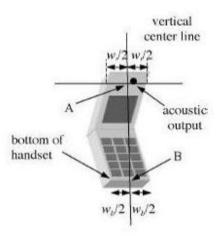
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F-6. Side view of the phantom showing relevant markings and seven cross-sectional plane locations

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"



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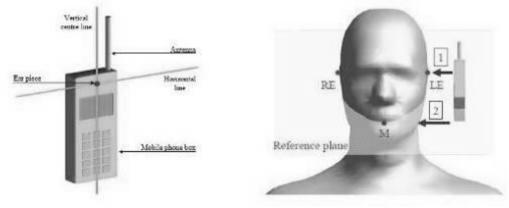
5.1.3 Definition of the "check" position

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

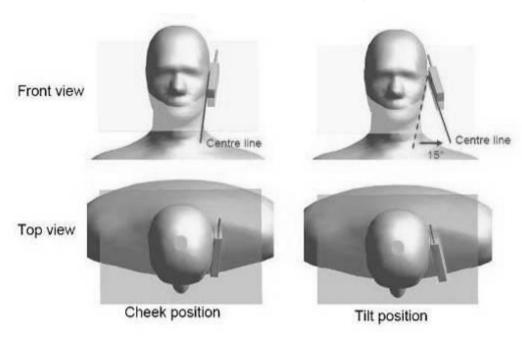




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F-10. "Cheek" and "tilt" positions of the mobile phone on the left side



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5.2 **The Body Test Position**

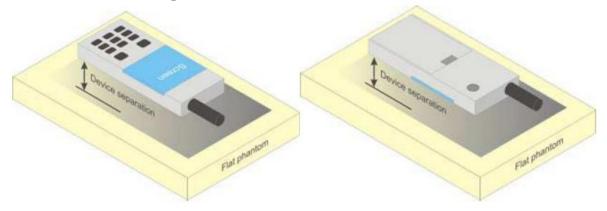
Body-worn accessory exposure conditions

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

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

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

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



F-11.Test positions for body-worn devices



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5.2.2 Wireless Router exposure conditions

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

Extremity exposure conditions 5.3

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

Due to the SAR result, there no frequency bands need to test with 0mm for the Product Specific 10-g SAR.



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6 **SAR System Verification Procedure**

6.1 **Tissue Simulate Liquid**

6.1.1 Recipes for Tissue Simulate Liquid

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

Ingredients	Frequency (MHz)								
(% by weight)	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				

Sucrose: 98+% Pure Sucrose

HEC: Hydroxyethyl Cellulose

Salt: 99+% Pure Sodium Chloride Water: De-ionized, 16 MΩ+ resistivity

Tween: Polyoxyethylene (20) sorbitan monolaurate

HSL5GHz is composed of the following ingredients: (Manufactured by SPEAG)

Water: 50-65% Mineral oil: 10-30% Emulsifiers: 8-25% Sodium salt: 0-1.5%

Table 1: Recipe of Tissue Simulate Liquid



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6.1.2 Measurement for Tissue Simulate Liquid

The Conductivity (σ) and Permittivity (ϵr) are listed in Table 2. For the SAR measurement given in this report.

The temperature variation of the Tissue Simulate Liquids was 22±2°C.

Measurement for Tissue Simulate Liquid									
Tissue	Measured Frequency (MHz)	Measured Tissue		Target Tissue (±5%)		Deviation (Within ±5%)		Liquid Temp.	Test
Туре		ε _r	σ(S/m)	ε _r	σ(S/m)	٤r	σ(S/m)	(℃)	Date
750 Head	750	43.000	0.867	41.90	0.89	2.63%	-2.58%	22.1	2025/3/11
750 Head	750	43.100	0.869	41.90	0.89	2.86%	-2.36%	22.2	2025/3/12
835 Head	835	42.500	0.924	41.50	0.90	2.41%	2.67%	21.9	2025/3/13
835 Head	835	40.600	0.906	41.50	0.90	-2.17%	0.67%	22.3	2025/3/17
835 Head	835	42.923	0.925	41.50	0.90	3.43%	2.78%	22.2	2025/3/23
835 Head	835	42.779	0.922	41.50	0.90	3.08%	2.44%	21	2025/3/24
1750 Head	1750	39.000	1.320	40.10	1.37	-2.74%	-3.65%	22.0	2025/3/14
1750 Head	1750	38.800	1.330	40.10	1.37	-3.24%	-2.92%	21.9	2025/3/14
1950 Head	1950	40.100	1.420	40.00	1.40	0.25%	1.43%	21.8	2025/3/15
1950 Head	1950	41.100	1.370	40.00	1.40	2.75%	-2.14%	22.1	2025/3/18
2450 Head	2450	39.900	1.750	39.20	1.80	1.79%	-2.78%	22.2	2025/3/19
2600 Head	2600	40.000	1.980	39.00	1.96	2.56%	1.02%	21.9	2025/3/16
2600 Head	2600	40.200	2.000	39.00	1.96	3.08%	2.04%	22.1	2025/3/25

Table 2: Measurement result of Tissue electric parameters



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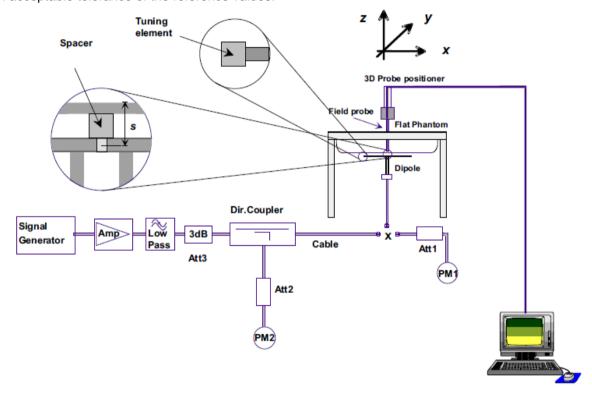
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6.2 **SAR System Check**

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



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



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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)

	SAR System Validation Result(s)										
Validation Kit		Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)		Target SAR (normalized to 1W)	ed (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)				
D750V3	Head	1.98	1.29	7.92	5.16	8.37	5.53	-5.38%	-6.69%	22.1	2025/3/11
D750V3	Head	1.92	1.26	7.68	5.04	8.37	5.53	-8.24%	-8.86%	22.2	2025/3/12
D835V2	Head	2.53	1.63	10.12	6.52	9.53	6.29	6.19%	3.66%	21.9	2025/3/13
D835V2	Head	2.44	1.64	9.76	6.56	9.53	6.29	2.41%	4.29%	22.3	2025/3/17
D835V2	Head	2.59	1.72	10.36	6.88	9.53	6.29	8.71%	9.38%	22.2	2025/3/23
D835V2	Head	2.50	1.66	10.00	6.64	9.53	6.29	4.93%	5.56%	21	2025/3/24
D1750V2	Head	9.16	4.87	36.64	19.48	36.60	19.30	0.11%	0.93%	22.0	2025/3/14
D1750V2	Head	8.89	4.84	35.56	19.36	36.60	19.30	-2.84%	0.31%	21.9	2025/3/14
D1950V3	Head	10.80	5.53	43.20	22.12	40.50	20.80	6.67%	6.35%	21.8	2025/3/15
D1950V3	Head	10.60	5.40	42.40	21.60	40.50	20.80	4.69%	3.85%	22.1	2025/3/18
D2450V2	Head	14.10	6.53	56.40	26.12	52.20	24.30	8.05%	7.49%	22.2	2025/3/19
D2600V2	Head	14.90	6.72	59.60	26.88	57.70	25.80	3.29%	4.19%	21.9	2025/3/16
D2600V2	Head	14.20	6.36	56.80	25.44	57.70	25.80	-1.56%	-1.40%	22.1	2025/3/25

Table 3: SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A





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7 **Test Configuration**

7.1 **3G SAR Test Reduction Procedure**

According to KDB 941225D01, in the following procedures, the mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ ¼ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode. This is referred to as the 3G SAR test reduction procedure in the following SAR test guidance, where the primary mode is identified in the applicable wireless mode test procedures and the secondary mode is wireless mode being considered for SAR test reduction by that procedure. When the 3G SAR test reduction procedure is not satisfied, it is identified as "otherwise" in the applicable procedures; SAR measurement is required for the secondary mode.

7.2 **Operation Configurations**

7.2.1 **GSM Test Configuration**

SAR tests for GSM 850 and GSM 1900, a communication link is set up with a base station by air link. Using Radio Communication Analyzer, the power lever is set to "5" and "0" in SAR of GSM 850 and GSM 1900. The tests in the band of GSM 850 and GSM 1900 are performed in the mode of GPRS/EGPRS function. Since the GPRS class is 12 or this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslot is 5. The EGPRS class is 12 for this EUT, it has at most 4 timeslots in uplink, and at most 5 timeslots in downlink, the maximum total timeslot is 6.

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power, the higher number time-slot configuration should be tested.

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

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

7.2.2 WCDMA Test Configuration

1) . Output Power Verification

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

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2) . Head SAR

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

3) . Body SAR

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

4) . HSDPA / HSUPA

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 \leq 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 HSDSCH/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	βс	Bd	$\beta d(SF)$ $\beta c/\beta d$		βhs	CM(dB)	MPR (dB)
1	2/15	15/15	64	2/15	4/15	0.0	0
2	12/15(3)	15/15(3)	64	12/15(3)	24/15	1.0	0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note1: \triangle ACK, \triangle NACK and \triangle CQI= 8 Ahs = β hs/ β c=30/15 β hs=30/15* β c

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

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





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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 OPSK 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₽	βεθ	βd€	β _d (SF) _e	β₀∕β⋴ℴ	β _{hs} (1	β _{ec}	βed₽	βe e ^{+/} (SF)+ ²	β _{ed} ↔ (code	CM(2)+1 (dB)+2	MP R↓ (dB)↓	AG(4)+/ Inde x+/	E- TFC I
1₽	11/15(3)42	15/15(3)	64₽	11/15(3)43	22/15₽	209/22 5 ₄ 3	1039/225₽	4 0	1₽	1.04	0.0	20₽	75₽
2₽	6/15₽	15/15∉	64₽	6/15₽	12/15₽	12/15₽	94/75₽	4₽	1₽	3.0₽	2.0₽	12₽	67₽
3₽	15/150	9/154	64₽	15/9₽	30/15₽	30/15	β _{ed1} :47/1 5 ₄ β _{ed2:} 47/1 5 ₄	4₽	2₽	2.0₽	1.0₽	15.0	92₽
4₽	2/15₽	15/15₽	64₽	2/15₽	4/15₽	2/15₽	56/75₽	4₽	1₽	3.0₽	2.0₽	17₽	71₽
5₽	15/15(4)47	15/15(4)(3	64₽	15/15(4)43	30/15₽	24/15₽	134/15₽	4 +	1₽	1.0₽	0.0₽	21	81₽

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

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

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

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 $\beta_d = 15/15$

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

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

Table 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 Speading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)	
1	1	4 10		4	7110	0.7296	
2	2	8	2	4	2798	1 4500	
2	2	4	10	4	14484	1.4592	
3	2	4	10	4	14484	1.4592	
4	2	8	2	2	5772	2.9185	
4	2	4	10	2	20000	2.00	
5	2	4	10	2	20000	2.00	
6	4	8	10	2SF2&2SF	11484	5.76	
(No DPDCH)	4	4	2	4	20000	2.00	
7	4	8	2	2SF2&2SF	22996	?	
(No DPDCH)	4	4	10	4	20000	?	

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

Table 7: HSUPA UE category

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



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34.121-1 to determine SAR test reduction. A primary and a Second serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

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

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

Table E.5.0: Levels for HSDPA connection setup

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

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

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

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

Parameter	Value
1 201 2011 2 2 2 2	
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.





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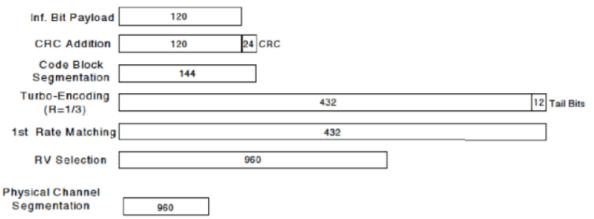


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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

Sub-test₽	βc₽	β _d ₽	β _d ·(SF)₽	$\beta_c \cdot / \beta_{d^{e^2}}$	β _{hs} .(1)₽	CM(dB)(2)	MPR (dB)
1₽	2/15₽	15/15₽	64₽	2/15₽	4/15₽	0.0₽	0₽
2₽	12/15(3)	15/15(3)	64₽	12/15(3)	24/15₽	1.0₽	0₽
3₽	15/15₽	8/15₽	64₽	15/8₽	30/15₽	1.5₽	0.5₽
4₽	15/15₽	4/15₽	64₽	15/4₽	30/15₽	1.5₽	0.5₽

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

Note 2: CM=1 for $\beta_c/\beta_{d=}$ 12/15, β_{hs}/β_c = 24/15. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases. 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 β_c =-11/15 and β_d =-15/15 φ

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

Note:

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





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d) HSPA+

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

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

_ _	ub- test∂	β₀↵ (Note3)↵	βd∻	β _{HS} . (Note1).	β _{ec} ⊎ ₽	β _{ed} ₊/ (2xSF2) ↓ (Note 4)₊	1	CM -/ (dB) -/ (Note 2)-	MPR. (dB). (Note 2).	Index⊎	(Note 5)	E-TFCI (boost)↔
F	1₽	1₽	0↔	30/15₽	30/15	βed1: 30/15↔	βed3: 24/15↔	3.5₽	2.5₽	14₽	105₽	105₽
						Bed2: 30/15₽	Bed4: 24/15₽					

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hc} = 30/15 * \beta_c$.

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 β₀ is set to 1 and β_d = 0 by default.

Note 4: βed 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.



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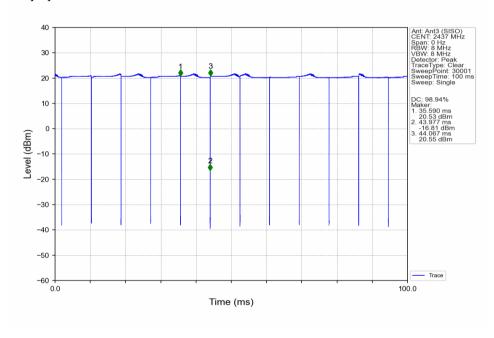
7.2.3 WIFI Test Configuration

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

7.2.3.1 Duty cycle

1) Wi-Fi 2.4GHz 802.11b:

Duty cycle=98.94%







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7.2.3.2 Initial Test Position SAR Test Reduction Procedure

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

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



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7.2.3.3 Subsequent Test Configuration Procedures

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

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





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7.2.3.4 2.4 GHz WiFi SAR Procedures

Separate SAR procedures are applied to DSSS and OFDM configurations in the 2.4 GHz band to simplify DSSS test requirements. For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test positions. When SAR measurement is required for an OFDM configuration, the initial test configuration, subsequent test configuration and initial test position procedures are applied. The SAR test exclusion requirements for 802.11g/n OFDM configurations are described in following.

802.11b DSSS SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- 1) . When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) . When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg. SAR is required for the third channel; i.e., all channels require testing.
- 2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements

When SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations, the measurement and test reduction procedures for OFDM are applied (section 5.3, including sub-sections). SAR is not required for the following 2.4 GHz OFDM conditions.

- 1) . When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
- 2) . When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

SAR Test Requirements for OFDM configurations

When SAR measurement is required for 802.11 g/n OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.





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7.2.4 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The 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 uplinkdownlink configurations and Table 4.2-1 for Special subframe configurations.

Frame structure type 2:

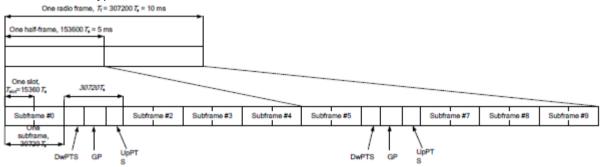


Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

14510 1.2 1.0	oringaration c	or opeoial eachan	to (longthe of EW)	Table 4.2 1. Comparation of Special Submarile (lengths of Dwi 10/01/06)												
Onesial	Norm	nal cyclic prefix in	downlink	Extended cyclic prefix in downlink												
Special subframe	DwPTS	Up	PTS	DwPTS	UpPTS											
configuration		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink										
0	6592.Ts			7680.Ts		0500 T										
1	19760.Ts			20480.Ts	0400 To											
2	21952.Ts	2192.Ts	2560.Ts	23040.Ts	2192.Ts	2560.Ts										
3	24144.Ts			25600.Ts												
4	26336.Ts			7680.Ts	400 4 T	5400 T										
5	6592.Ts	4384.Ts	5120.Ts	20480.Ts	4384.Ts	5120.Ts										

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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	Downlink-to-		Subframe number									
configuration	Uplink Switch- point periodicity	0	1	2	3	4	5	6	7	8	9	
0	5 ms	D	S	U	U	U	D	S	U	U	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 U1/10ms

Uplink-	, cycle t		Subframe Number											
· ·	Downlink-to-									•		Calculated		
Downlink	Uplink Switch-											Duty		
Configur	point Periodicity	0	1	2	3	4	5	6	7	8	9	Cycle (%)		
ation														
0	5 ms	D	S	כ	J	U	D	S	J	U	U	63.33		
1	5 ms	D	S	כ	J	D	D	S	J	U	D	43.33		
2	5 ms	D	S	כ	D	D	D	S	J	D	D	23.33		
3	10 ms	D	S	כ	J	U	D	D	D	D	D	31.67		
4	10 ms	D	S	כ	J	D	D	D	D	D	D	21.67		
5	10 ms	D	S	J	D	D	D	D	ם	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.

		Channel b	oandwidth/	Transmission	bandwidth		MPR					
Modulation	1.4	3	5	10	15	20	(dB)					
	MHz MHz MHz MHz MHz MHz											





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QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	1
16QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	1
16QAM	> 5	> 4	> 8	> 12	> 16	> 18	2
64QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	2
64QAM	> 5	> 4	> 8	> 12	> 16	> 18	3
256QAM				≥1			5

C) A-MPR

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

D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise. SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel. 2) QPSK with 50% RB allocation

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

3) QPSK with 100% RB allocation

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

4) Higher order modulations

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

E) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > ½ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.





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Test Result 8

8.1 Measurement of RF Conducted Power

The detailed conducted power can be referred to Appendix E.

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

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

2) . The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:

Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8.

- 3). When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used.
- 4) . For conducted power of WIFI must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band. For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured. Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.
 - 1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.
 - 2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.



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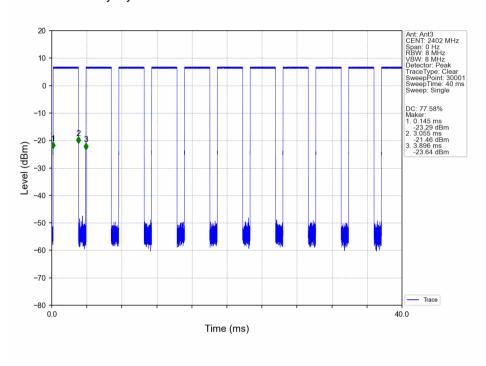


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5) . The conducted power of BT is measured with RMS detector. BT DH5 Duty Cycle=77.58%







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8.2 Measurement of SAR Data

Note:

- The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B. 1)
- Per KDB447498 D04, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8W/kg for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is ≤ 100MHz.
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz.

WiFi 2.4G:

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

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





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8.2.1 SAR Result of GSM850

GSM850 SAR Test Record													
Ant 2 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)	•	Scaled factor		Liquid Temp.(℃)		
			ŀ	Head Tes	t Data Sta	ate 2							
Left cheek	GPRS 2TS	190/836.6	1:4.15	0.696	0.540	0.17	29.72	31.00	1.343	0.935	22.1		
Left tilted	GPRS 2TS	190/836.6	1:4.15	0.502	0.336	0.03	29.72	31.00	1.343	0.674	22.1		
Right cheek	GPRS 2TS	190/836.6	1:4.15	0.986	0.621	0.10	29.72	31.00	1.343	1.324	22.1		
Right tilted	GPRS 2TS	190/836.6	1:4.15	0.789	0.428	0.01	29.72	31.00	1.343	1.059	22.1		
Right cheek	GPRS 2TS	128/824.2	1:4.15	0.789	0.529	0.18	29.72	31.00	1.343	1.059	22.1		
Right cheek	GPRS 2TS	251/848.8	1:4.15	0.996	0.631	-0.12	29.73	31.00	1.340	1.334	22.1		
Right tilted	GPRS 2TS	128/824.2	1:4.15	0.631	0.423	0.05	29.72	31.00	1.343	0.847	22.1		
Right tilted	GPRS 2TS	251/848.8	1:4.15	0.797	0.505	-0.12	29.73	31.00	1.340	1.068	22.1		
Right cheek with Repeat	GPRS 2TS	251/848.8	1:4.15	0.985	0.611	0.02	29.73	31.00	1.340	1.320	22.1		
Right cheek with Batterly 2	GPRS 2TS	251/848.8	1:4.15	0.989	0.627	0.01	29.73	31.00	1.340	1.325	22.1		
		Hotspot&	Body w	orn Test	data(Sepa	arate 10r	nm) State 1						
Front side	GPRS 2TS	190/836.6	1:4.15	0.244	0.173	-0.13	29.72	31.00	1.343	0.328	22.1		
Back side	GPRS 2TS	190/836.6	1:4.15	0.513	0.294	-0.03	29.72	31.00	1.343	0.689	22.1		
Left side	GPRS 2TS	190/836.6	1:4.15	0.260	0.164	0.17	29.72	31.00	1.343	0.349	22.1		
Left side	GPRS 2TS	190/836.6	1:4.15	0.128	0.081	0.16	29.72	31.00	1.343	0.172	22.1		
Top side	GPRS 2TS	190/836.6	1:4.15	0.242	0.130	0.19	29.72	31.00	1.343	0.325	22.1		
Back side with Batterly 2	GPRS 2TS	190/836.6	1:4.15	0.438	0.271	0.10	29.72	31.00	1.343	0.588	22.1		

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	(.9)	SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	251/848.8	0.996	0.985	1.011	N/A	N/A

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



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

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

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

⁵⁾ The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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8.2.2 SAR Result of GSM1900

GSM1900 SAR Test Record															
Ant 1 Test Record															
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor		Liquid Temp.(℃)				
			F	lead Test	Data Stat	e 2									
Left cheek															
Left tilted	GPRS 2TS	661/1880	1:4.15	0.040	0.024	-0.04	26.12	27.00	1.225	0.049	22.1				
Right cheek	GPRS 2TS	661/1880	1:4.15	0.040	0.027	0.08	26.12	27.00	1.225	0.049	22.1				
Right tilted	GPRS 2TS	661/1880	1:4.15	0.011	0.003	0.06	26.12	27.00	1.225	0.013	22.1				
Left cheek with Batterly 2	GPRS 2TS	661/1880	1:4.15	0.058	0.034	0.11	26.12	27.00	1.225	0.071	22.1				
		Hotspot	&Body w	orn Test d	ata(Sepa	rate 10m	m) State 1								
Front side	GPRS 2TS	661/1880	1:4.15	0.189	0.112	-0.19	26.12	27.00	1.225	0.231	22.1				
Back side	GPRS 2TS	661/1880	1:4.15	0.283	0.171	0.11	26.12	27.00	1.225	0.347	22.1				
Left side	GPRS 2TS	661/1880	1:4.15	0.114	0.071	-0.08	26.12	27.00	1.225	0.140	22.1				
Right side	GPRS 2TS	661/1880	1:4.15	0.043	0.025	-0.15	26.12	27.00	1.225	0.053	22.1				
Bottom side	GPRS 2TS	661/1880	1:4.15	0.503	0.273	-0.01	26.12	27.00	1.225	0.616	22.1				
Bottom side with Batterly 2	GPRS 2TS	661/1880	1:4.15	0.460	0.236	-0.15	26.12	27.00	1.225	0.563	22.1				





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8.2.3 SAR Result of WCDMA Band II

WB2 SAR Test Record														
	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)		Scaled factor		Liquid Temp.(℃)			
				Head Te	est Data S	State 2								
Left cheek	RMC	9400/1880	1:1	0.090	0.057	0.06	21.43	23.00	1.435	0.129	22.1			
Left tilted														
Right cheek														
Right tilted	RMC	9400/1880	1:1	0.069	0.040	-0.07	21.43	23.00	1.435	0.099	22.1			
Right cheek with Batterly 2	RMC	9400/1880	1:1	0.104	0.063	-0.17	21.43	23.00	1.435	0.149	22.1			
		Hotspot&	Body v	worn Tes	st data(Se	parate 10r	nm) State1							
Front side	RMC	9400/1880	1:1	0.290	0.165	-0.16	20.42	22.00	1.439	0.417	22.1			
Back side	RMC	9400/1880	1:1	0.445	0.263	0.00	20.42	22.00	1.439	0.640	22.1			
Left side	RMC	9400/1880	1:1	0.161	0.098	0.16	20.42	22.00	1.439	0.232	22.1			
Right side	RMC	9400/1880	1:1	0.048	0.028	-0.19	20.42	22.00	1.439	0.069	22.1			
Bottom side	RMC	9400/1880	1:1	0.657	0.337	-0.01	20.42	22.00	1.439	0.945	22.1			
Bottom side	RMC	9262/1852.4	1:1	0.756	0.412	0.00	20.35	22.00	1.462	1.105	22.1			
Bottom side-repeat	RMC	9262/1852.4	1:1	0.697	0.384	-0.14	20.35	22.00	1.462	1.019	22.1			
Bottom side	RMC	9538/1907.6	1:1	0.553	0.310	0.00	20.54	22.00	1.400	0.774	22.1			
Bottom side with Batterly 2	RMC	9262/1852.4	1:1	0.673	0.369	0.11	20.35	22.00	1.462	0.984	22.1			





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8.2.4 SAR Result of WCDMA Band IV

WB4 SAR Test Record														
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)		Scaled factor		Liquid Temp.(℃)			
				Head Te	st Data St	ate 2								
Left cheek	RMC	1412/1732.4	1:1	0.117	0.068	0.12	21.72	23.00	1.343	0.157	22.1			
Left tilted	RMC	1412/1732.4	1:1	0.113	0.073	0.13	21.72	23.00	1.343	0.152	22.1			
Right cheek	RMC	1412/1732.4	1:1	0.138	0.089	0.11	21.72	23.00	1.343	0.185	22.1			
Right tilted	RMC	1412/1732.4	1:1	0.105	0.061	0.14	21.72	23.00	1.343	0.141	22.1			
Right cheek with Batterly 2	RMC	1412/1732.4	1:1	0.121	0.084	-0.19	21.72	23.00	1.343	0.162	22.1			
		Hotspot	&Body	worn Tes	t data(Sep	arate 10n	nm) State 1							
Front side	RMC	1412/1732.4	1:1	0.236	0.130	0.15	18.55	20.00	1.396	0.330	22.1			
Back side	RMC	1412/1732.4	1:1	0.416	0.234	0.13	18.55	20.00	1.396	0.581	22.1			
Left side	RMC	1412/1732.4	1:1	0.088	0.055	-0.11	18.55	20.00	1.396	0.123	22.1			
Right side	RMC	1412/1732.4	1:1	0.051	0.032	0.11	18.55	20.00	1.396	0.071	22.1			
Bottom side	RMC	1412/1732.4	1:1	0.523	0.287	-0.06	18.55	20.00	1.396	0.730	22.1			
Bottom side	RMC	1312/1712.4	1:1	0.495	0.283	0.11	18.63	20.00	1.371	0.679	22.1			
Bottom side	RMC	1513/1752.6	1:1	0.594	0.321	0.00	18.60	20.00	1.380	0.820	22.1			
Bottom side with Batterly 2	RMC	1513/1752.6	1:1	0.557	0.318	0.09	18.60	20.00	1.380	0.769	22.1			



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8.2.5 SAR Result of WCDMA Band V

WB5 SAR Test Record													
				Ant 2	Test Rec	ord							
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)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)		
				Head Te	est Data S	tate 2							
Left cheek RMC 4182/836.4 1:1 0.561 0.415 0.00 23.04 24.00 1.247 0.700 22.1													
Left tilted RMC 4182/836.4 1:1 0.489 0.292 -0.10 23.04 24.00 1.247 0.610 22.1													
Right cheek	RMC	4182/836.4	1:1	0.792	0.554	0.04	23.04	24.00	1.247	0.988	22.1		
Right tilted	RMC	4182/836.4	1:1	0.675	0.415	-0.11	23.04	24.00	1.247	0.842	22.1		
Right cheek	RMC	4132/826.4	1:1	0.738	0.524	0.03	22.99	24.00	1.262	0.931	22.1		
Right cheek	RMC	4233/846.6	1:1	0.745	0.535	0.05	22.84	24.00	1.306	0.973	22.1		
Right tilted	RMC	4182/836.4	1:1	0.627	0.445	-0.07	22.99	24.00	1.262	0.791	22.1		
Right tilted	RMC	4182/836.4	1:1	0.633	0.455	-0.02	22.84	24.00	1.306	0.827	22.1		
Right cheek with Batterly 2	RMC	4182/836.4	1:1	0.755	0.398	0.04	23.04	24.00	1.247	0.942	22.1		
		Hotspo	t&Body	worn Tes	st data(Se	parate 10	0mm) State 1						
Front side	RMC	4182/836.4	1:1	0.192	0.148	-0.11	23.04	24.00	1.247	0.239	22.1		
Back side	RMC	4182/836.4	1:1	0.381	0.220	0.04	23.04	24.00	1.247	0.475	22.1		
Left side	RMC	4182/836.4	1:1	0.270	0.176	-0.03	23.04	24.00	1.247	0.337	22.1		
Right side	RMC	4182/836.4	1:1	0.122	0.078	-0.10	23.04	24.00	1.247	0.152	22.1		
Top side	RMC	4182/836.4	1:1	0.231	0.117	0.15	23.04	24.00	1.247	0.288	22.1		
Back side with Batterly 2	RMC	4182/836.4	1:1	0.312	0.194	0.04	23.04	24.00	1.247	0.389	22.1		



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8.2.6 SAR Result of LTE Band 2

	LTE Band 2 SAR Test Record												
				An	t 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)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)	
			H	ead Te	est Data (1RB) Sta	te 2						
Left cheek	20	QPSK 1_99	19100/1900	1:1	0.120	0.073	-0.02	22.85	24.00	1.303	0.156	22.1	
Left tilted	20	QPSK 1_99	19100/1900	1:1	0.115	0.072	-0.16	22.85	24.00	1.303	0.150	22.1	
Right cheek	20	QPSK 1_99	19100/1900	1:1	0.114	0.076	-0.11	22.85	24.00	1.303	0.149	22.1	
Right tilted	20	QPSK 1_99	19100/1900	1:1	0.088	0.052	0.06	22.85	24.00	1.303	0.115	22.1	
			Hea	ad Tes	t Data (50	0%RB) S	ate 2						
Left cheek	20	QPSK 50_50	19100/1900	1:1	0.098	0.062	0.05	21.47	23.00	1.422	0.139	22.1	
Left tilted	20	QPSK 50_50	19100/1900	1:1	0.105	0.060	0.08	21.47	23.00	1.422	0.149	22.1	
Right cheek	20	QPSK 50_50	19100/1900	1:1	0.111	0.071	-0.03	21.47	23.00	1.422	0.158	22.1	
Right tilted	20	QPSK 50_50	19100/1900	1:1	0.077	0.048	0.06	21.47	23.00	1.422	0.110	22.1	
Right cheek with Batterly 2	20	QPSK 50_50	19100/1900	1:1	0.091	0.058	0.14	21.47	23.00	1.422	0.129	22.1	
		Ho	tspot&Body wo	orn Tes	st data (S	eparate 1	0mm 1F	RB) State 1					
Front side	20	QPSK 1_99	19100/1900	1:1	0.313	0.182	0.05	21.97	23.00	1.268	0.397	22.1	
Back side	20	QPSK 1_99	19100/1900	1:1	0.484	0.268	0.02	21.97	23.00	1.268	0.614	22.1	
Left side	20	QPSK 1_99	19100/1900	1:1	0.166	0.096	0.10	21.97	23.00	1.268	0.210	22.1	
Right side	20	QPSK 1_99	19100/1900	1:1	0.050	0.030	0.00	21.97	23.00	1.268	0.063	22.1	
Bottom side	20	QPSK 1_99	19100/1900	1:1	0.602	0.318	0.00	21.97	23.00	1.268	0.763	22.1	
Bottom side	20	QPSK 1_99	18700/1860	1:1	0.761	0.419	0.16	21.49	23.00	1.416	1.077	22.1	
Bottom side	20	QPSK 1_99	18900/1880	1:1	0.742	0.363	-0.13	21.68	23.00	1.355	1.006	22.1	
Bottom side with Batterly 2	20	QPSK 1_99	18700/1860	1:1	0.649	0.335	-0.03	21.49	23.00	1.416	0.919	22.1	
		Hots	spot&Body wor	n Test	data (Se	parate 10	mm 50%	6RB) State 1					
Front side	20	QPSK 50_50	18700/1860	1:1	0.260	0.158	0.10	20.84	22.00	1.306	0.340	22.1	
Back side	20	QPSK 50_50	18700/1860	1:1	0.376	0.218	-0.18	20.84	22.00	1.306	0.491	22.1	
Left side	20	QPSK 50_50	18700/1860	1:1	0.141	0.084	0.00	20.84	22.00	1.306	0.184	22.1	
Right side	20	QPSK 50_50	18700/1860	1:1	0.046	0.027	-0.10	20.84	22.00	1.306	0.060	22.1	
Bottom side	20	QPSK 50_50	18700/1860	1:1	0.589	0.300	-0.01	20.84	22.00	1.306	0.769	22.1	
Bottom side	20	QPSK 50_0	18900/1880	1:1	0.573	0.310	-0.16	20.50	22.00	1.413	0.809	22.1	
Bottom side	20	QPSK 50_25	19100/1900	1:1	0.494	0.283	-0.15	20.50	22.00	1.413	0.698	22.1	
		Hots	pot&Body worr	Test	data (Sep	parate 10	mm 100	%RB) State 1					
Bottom side	20	QPSK 100_0	19100/1900	1:1	0.524	0.284	-0.15	20.44	22.00	1.432	0.750	22.1	



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8.2.7 SAR Result of LTE Band 7

LTE Band 7 SAR Test Record													
Ant 1 Test Record													
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)				
			He	ead Test	Data (1F	RB) State	2						
Left cheek	20	QPSK 1_99	20850/2510	1:1	0.050	0.027	0.01	22.93	24.00	1.279	0.064	22.1	
Left tilted	20	QPSK 1_99	20850/2510	1:1	0.039	0.022	-0.14	22.93	24.00	1.279	0.050	22.1	
Right cheek	20	QPSK 1_99	20850/2510	1:1	0.036	0.019	-0.15	22.93	24.00	1.279	0.046	22.1	
Right tilted	20	QPSK 1_99	20850/2510	1:1	0.026	0.016	-0.04	22.93	24.00	1.279	0.033	22.1	
Left cheek with Batterly 2	20	QPSK 1_99	20850/2510	1:1	0.045	0.024	-0.03	22.93	24.00	1.279	0.058	22.1	
			Hea	ad Test [Oata (50%	6RB) Sta	ite 2						
Left cheek	20	QPSK 50_25	20850/2510	1:1	0.045	0.028	-0.18	21.85	23.00	1.303	0.059	22.1	
Left tilted	20	QPSK 50_25	20850/2510	1:1	0.040	0.020	0.16	21.85	23.00	1.303	0.052	22.1	
Right cheek	20	QPSK 50_25	20850/2510	1:1	0.027	0.016	-0.09	21.85	23.00	1.303	0.035	22.1	
Right tilted	20	QPSK 50_25	20850/2510	1:1	0.025	0.015	0.10	21.85	23.00	1.303	0.033	22.1	
		Ho	tspot&Body wo	rn Test	data (Se _l	parate 10	mm 1RE	3) State 1					
Front side	20	QPSK 1_50	20850/2510	1:1	0.269	0.118	-0.16	19.18	19.50	1.076	0.290	22.1	
Back side	20	QPSK 1_50	20850/2510	1:1	0.612	0.275	-0.09	19.18	19.50	1.076	0.659	22.1	
Left side	20	QPSK 1_50	20850/2510	1:1	0.069	0.039	0.16	19.18	19.50	1.076	0.074	22.1	
Right side	20	QPSK 1_50	20850/2510	1:1	0.008	0.004	0.12	19.18	19.50	1.076	0.009	22.1	
Bottom side	20	QPSK 1_50	20850/2510	1:1	0.783	0.318	-0.02	19.18	19.50	1.076	0.843	22.1	
Back side	20	QPSK 1_0	21100/2535	1:1	0.710	0.291	0.09	19.12	19.50	1.091	0.775	22.1	
Back side	20	QPSK 1_0	21350/2560	1:1	0.765	0.135	0.06	19.15	19.50	1.084	0.829	22.1	
Bottom side	20	QPSK 1_0	21100/2535	1:1	0.810	0.364	0.19	19.12	19.50	1.091	0.884	22.1	
Bottom side	20	QPSK 1_0	21350/2560	1:1	0.811	0.359	0.02	19.15	19.50	1.084	0.879	22.1	
Bottom side with Repeat	20	QPSK 1_0	21100/2535	1:1	0.736	0.343	0.02	19.12	19.50	1.091	0.803	22.1	
Bottom side with Batterly 2	20	QPSK 1_0	21100/2535	1:1	0.805	0.352	-0.11	19.12	19.50	1.091	0.879	22.1	
		Hots	spot&Body worr	n Test da	ata (Sepa	arate 10n	nm 50%F	RB) State 1					
Front side	20	QPSK 50_0	21350/2560	1:1	0.180	0.084	-0.04	17.92	18.50	1.143	0.206	22.1	
Back side	20	QPSK 50_0	21350/2560	1:1	0.461	0.220	0.19	17.92	18.50	1.143	0.527	22.1	
Left side	20	QPSK 50_0	21350/2560	1:1	0.025	0.014	-0.10	17.92	18.50	1.143	0.029	22.1	
Right side	20	QPSK 50_0	21350/2560	1:1	0.046	0.026	0.02	17.92	18.50	1.143	0.053	22.1	
Bottom side	20	QPSK 50_0	21350/2560	1:1	0.492	0.223	0.07	17.92	18.50	1.143	0.562	22.1	
	•	Hots	pot&Body worn	Test da	ita (Sepa	rate 10m	m 100%	RB) State 1		•	•		
Back side	20	QPSK 100_0	21350/2560	1:1	0.543	0.242	0.03	17.83	18.50	1.167	0.634	22.1	
Bottom side	20	QPSK 100_0	21350/2560	1:1	0.495	0.225	0.01	17.83	18.50	1.167	0.578	22.1	



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Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Bottom side	21100/2535	0.810	0.736	1.101	N/A	N/A

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



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

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

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

⁵⁾ The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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8.2.8 SAR Result of LTE Band 12

	LTE Band 12 SAR Test Record												
				Ant	2 Test R	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)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)	
			H	ead Tes	t Data (1	RB) Sta	te 2						
Left cheek 10 QPSK 1_0 23060/704 1:1 0.274 0.194 0.18 24.30 25.00 1.175 0.322 22.													
Left tilted	10	QPSK 1_0	23060/704	1:1	0.193	0.132	0.18	24.30	25.00	1.175	0.227	22.1	
Right cheek	10	QPSK 1_0	23060/704	1:1	0.337	0.212	0.15	24.30	25.00	1.175	0.396	22.1	
Right tilted	10	QPSK 1_0	23060/704	1:1	0.299	0.164	-0.11	24.30	25.00	1.175	0.351	22.1	
			Hea	ad Test	Data (50	%RB) St	ate 2						
												22.1	
Left tilted	10	QPSK 25_25	23130/711	1:1	0.224	0.159	-0.15	23.07	24.00	1.239	0.277	22.1	
Right cheek	10	QPSK 25_25	23130/711	1:1	0.414	0.298	0.01	23.07	24.00	1.239	0.513	22.1	
Right tilted	10	QPSK 25_25	23130/711	1:1	0.369	0.192	-0.10	23.07	24.00	1.239	0.457	22.1	
Right cheek with Batterly 2	10	QPSK 25_25	23130/711	1:1	0.374	0.271	0.04	23.07	24.00	1.239	0.463	22.1	
		Ho	otspot&Body wo	rn Test	data (Se	eparate 1	0mm 1F	RB) State 1					
Front side	10	QPSK 1_0	23060/704	1:1	0.137	0.096	0.18	24.30	25.00	1.175	0.161	22.1	
Back side	10	QPSK 1_0	23060/704	1:1	0.197	0.138	0.02	24.30	25.00	1.175	0.231	22.1	
Left side	10	QPSK 1_0	23060/704	1:1	0.119	0.082	0.19	24.30	25.00	1.175	0.140	22.1	
Right side	10	QPSK 1_0	23060/704	1:1	0.063	0.040	-0.08	24.30	25.00	1.175	0.074	22.1	
Top side	10	QPSK 1_0	23060/704	1:1	0.062	0.032	0.17	24.30	25.00	1.175	0.073	22.1	
		Hots	spot&Body wor	n Test d	ata (Sep	arate 10	mm 50%	GRB) State 1					
Front side	10	QPSK 25_25	23130/711	1:1	0.181	0.127	0.04	23.07	24.00	1.239	0.224	22.1	
Back side	10	QPSK 25_25	23130/711	1:1	0.267	0.202	0.00	23.07	24.00	1.239	0.331	22.1	
Left side	10	QPSK 25_25	23130/711	1:1	0.217	0.153	0.19	23.07	24.00	1.239	0.269	22.1	
Right side	10	QPSK 25_25	23130/711	1:1	0.089	0.058	-0.16	23.07	24.00	1.239	0.110	22.1	
Top side	10	QPSK 25_25	23130/711	1:1	0.103	0.047	-0.10	23.07	24.00	1.239	0.128	22.1	
Back side with Batterly 2	10	QPSK 25_25	23130/711	1:1	0.265	0.180	0.14	23.07	24.00	1.239	0.328	22.1	





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8.2.9 SAR Result of LTE Band 13

	LTE Band 13 SAR Test Record												
				Ant	2 Test I	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)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)	
			H	lead Te	st Data (1RB) Sta	ite 2						
Left cheek	10	QPSK 1_49	23230/782	1:1	0.328	0.223	-0.13	24.07	25.00	1.239	0.406	22.1	
Left tilted	10	QPSK 1_49	23230/782	1:1	0.224	0.145	-0.13	24.07	25.00	1.239	0.277	22.1	
Right cheek	10	QPSK 1_49	23230/782	1:1	0.425	0.297	0.09	24.07	25.00	1.239	0.526	22.1	
Right tilted	10	QPSK 1_49	23230/782	1:1	0.326	0.177	0.08	24.07	25.00	1.239	0.404	22.1	
Right cheek with Batterly 2	10	QPSK 1_49	23230/782	1:1	0.400	0.285	0.06	24.07	25.00	1.239	0.496	22.1	
			He	ead Test	Data (50)%RB) S	tate 2						
Left cheek	10	QPSK 25_0	23230/782	1:1	0.257	0.200	0.01	23.08	24.00	1.236	0.318	22.1	
Left tilted	10	QPSK 25_0	23230/782	1:1	0.194	0.132	0.04	23.08	24.00	1.236	0.240	22.1	
Right cheek	10	QPSK 25_0	23230/782	1:1	0.361	0.215	0.14	23.08	24.00	1.236	0.446	22.1	
Right tilted	10	QPSK 25_0	23230/782	1:1	0.292	0.148	0.03	23.08	24.00	1.236	0.361	22.1	
		Н	otspot&Body w	orn Tes	t data (S	eparate	10mm 1l	RB) State 1					
Front side	10	QPSK 1_49	23230/782	1:1	0.171	0.126	0.13	24.07	25.00	1.239	0.212	22.1	
Back side	10	QPSK 1_49	23230/782	1:1	0.259	0.170	0.09	24.07	25.00	1.239	0.321	22.1	
Left side	10	QPSK 1_49	23230/782	1:1	0.298	0.204	0.07	24.07	25.00	1.239	0.369	22.1	
Right side	10	QPSK 1_49	23230/782	1:1	0.108	0.074	-0.03	24.07	25.00	1.239	0.134	22.1	
Top side	10	QPSK 1_49	23230/782	1:1	0.100	0.050	0.11	24.07	25.00	1.239	0.124	22.1	
Left side with Batterly 2	10	QPSK 1_49	23230/782	1:1	0.267	0.160	0.06	24.07	25.00	1.239	0.331	22.1	
		Ho	tspot&Body wo	rn Test	data (Se _l	parate 10	0mm 50%	%RB) State 1					
Front side	10	QPSK 25_0	23230/782	1:1	0.149	0.112	-0.07	23.08	24.00	1.236	0.184	22.1	
Back side	10	QPSK 25_0	23230/782	1:1	0.218	0.145	0.17	23.08	24.00	1.236	0.269	22.1	
Left side	10	QPSK 25_0	23230/782	1:1	0.225	0.141	-0.01	23.08	24.00	1.236	0.278	22.1	
Right side	10	QPSK 25_0	23230/782	1:1	0.056	0.037	0.08	23.08	24.00	1.236	0.069	22.1	
Top side	10	QPSK 25_0	23230/782	1:1	0.101	0.049	0.13	23.08	24.00	1.236	0.125	22.1	





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8.2.10 SAR Result of LTE Band 26

LTE Band 26 SAR Test Record												
				Ant	2 Test R	ecord						
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)			Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)
			He	ead Tes	t Data (1	RB) Stat	te 2					
Left cheek	15	QPSK 1_38	26865/831.5	1:1	0.586	0.413	0.04	24.16	25.00	1.213	0.711	22.1
Left tilted	15	QPSK 1_38	26865/831.5	1:1	0.522	0.315	0.14	24.16	25.00	1.213	0.633	22.1
Right cheek	15	QPSK 1_38	26865/831.5	1:1	0.891	0.624	0.02	24.16	25.00	1.213	1.081	22.1
Right cheek with Repeat	15	QPSK 1_38	26865/831.5	1:1	0.807	0.554	0.03	24.16	25.00	1.213	0.979	22.1
Right tilted	15	QPSK 1_38	26865/831.5	1:1	0.676	0.387	-0.03	24.16	25.00	1.213	0.820	22.1
Right cheek	15	QPSK 1_38	26765/821.5	1:1	0.790	0.535	-0.19	24.05	25.00	1.245	0.983	22.1
Right cheek	15	QPSK 1_0	26965/841.5	1:1	0.851	0.492	-0.03	24.16	25.00	1.213	1.033	22.1
Right tilted	15	QPSK 1_38	26765/821.5	1:1	0.644	0.360	0.16	24.05	25.00	1.245	0.801	22.1
Right tilted	15	QPSK 1_0	26965/841.5	1:1	0.624	0.369	0.13	24.16	25.00	1.213	0.757	22.1
Right cheek with Batterly 2	15	QPSK 1_38	26865/831.5	1:1	0.801	0.566	0.15	24.16	25.00	1.213	0.972	22.1
			Hea	ad Test	Data (50	%RB) St	ate 2					
Left cheek	15	QPSK 36_0	26865/831.5	1:1	0.461	0.347	-0.10	23.10	24.00	1.230	0.567	22.1
Left tilted	15	QPSK 36_0	26865/831.5	1:1	0.401	0.263	-0.18	23.10	24.00	1.230	0.493	22.1
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.644	0.447	0.06	23.10	24.00	1.230	0.792	22.1
Right tilted	15	QPSK 36_0	26865/831.5	1:1	0.563	0.312	-0.02	23.10	24.00	1.230	0.693	22.1
Right cheek	15	QPSK 36_39	26765/821.5	1:1	0.681	0.418	-0.18	23.04	24.00	1.247	0.849	22.1
Right cheek	15	QPSK 36_18	26965/841.5	1:1	0.632	0.406	0.16	22.96	24.00	1.271	0.803	22.1
			Hea	d Test D	Data (100	%RB) S	tate 2					
Right cheek	15	QPSK 75_0	26865/831.5	1:1	0.668	0.411	0.01	22.98	24.00	1.265	0.845	22.1
Right tilted	15	QPSK 75_0	26865/831.5	1:1	0.542	0.302	-0.11	22.98	24.00	1.265	0.685	22.1
		Ho	tspot&Body wo	orn Test	data (Se	parate 1	0mm 1F	RB) State 1				
Front side	15	QPSK 1_38	26865/831.5	1:1	0.234	0.164	0.10	24.16	25.00	1.213	0.284	22.1
Back side	15	QPSK 1_38	26865/831.5	1:1	0.393	0.295	0.00	24.16	25.00	1.213	0.477	22.1
Left side	15	QPSK 1_38	26865/831.5	1:1	0.304	0.210	-0.03	24.16	25.00	1.213	0.369	22.1
Right side	15	QPSK 1_38	26865/831.5	1:1	0.106	0.070	-0.08	24.16	25.00	1.213	0.129	22.1
Top side	15	QPSK 1_38	26865/831.5	1:1	0.285	0.149	-0.13	24.16	25.00	1.213	0.346	22.1
Back side with Batterly 2	15	QPSK 1_38	26865/831.5	1:1	0.319	0.196	-0.02	24.16	25.00	1.213	0.387	22.1
		Hots	spot&Body wor	n Test d	ata (Sep	arate 10	mm 50%	RB) State 1				
Front side	15	QPSK 36_0	26865/831.5	1:1	0.170	0.135	-0.18	23.10	24.00	1.230	0.209	22.1
Back side	15	QPSK 36_0	26865/831.5	1:1	0.299	0.164	-0.11	23.10	24.00	1.230	0.368	22.1
Left side	15	QPSK 36_0	26865/831.5	1:1	0.260	0.169	-0.11	23.10	24.00	1.230	0.320	22.1
Right side	15	QPSK 36_0	26865/831.5	1:1	0.084	0.056	0.19	23.10	24.00	1.230	0.103	22.1
Top side	15	QPSK 36_0	26865/831.5	1:1	0.203	0.102	0.13	23.10	24.00	1.230	0.250	22.1



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Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	(-9)	SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	26865/831.5	0.891	0.807	1.104	N/A	N/A

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



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

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

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

⁵⁾ The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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8.2.11 SAR Result of LTE Band 41

	LTE Band 41 SAR Test Record												
				Ant	1 Test F	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)			Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)	
			ŀ	Head Te	st Data (1RB) Sta	te 2						
Left cheek	20	QPSK 1_50	39750/2506	1:1.58	0.029	0.012	-0.14	22.68	24.00	1.355	0.039	22.1	
Left tilted	20	QPSK 1_50	39750/2506	1:1.58	0.025	0.012	0.04	22.68	24.00	1.355	0.034	22.1	
Right cheek	20	QPSK 1_50	39750/2506	1:1.58	0.016	0.009	0.16	22.68	24.00	1.355	0.022	22.1	
Right tilted	20	QPSK 1_50	39750/2506	1:1.58	0.013	0.007	-0.09	22.68	24.00	1.355	0.018	22.1	
Left cheek with Batterly 2	20	QPSK 1_50	39750/2506	1:1.58	0.026	0.015	-0.10	22.68	24.00	1.355	0.035	22.1	
			He	ead Test	Data (50)%RB) S1	ate 2						
Left cheek	20	QPSK 50_0	39750/2506	1:1.58	0.027	0.015	-0.16	21.88	23.00	1.294	0.035	22.1	
Left tilted	20	QPSK 50_0	39750/2506	1:1.58	0.021	0.011	0.00	21.88	23.00	1.294	0.027	22.1	
Right cheek	20	QPSK 50_0	39750/2506	1:1.58	0.013	0.007	-0.17	21.88	23.00	1.294	0.017	22.1	
Right tilted	20	QPSK 50_0	39750/2506	1:1.58	0.012	0.006	-0.02	21.88	23.00	1.294	0.016	22.1	
		H	Hotspot&Body v	vorn Tes	t data (S	eparate 1	0mm 1R	B) State 1					
Front side	20	QPSK 1_0	39750/2506	1:1.58	0.199	0.095	0.13	19.91	21.00	1.285	0.256	22.1	
Back side	20	QPSK 1_0	39750/2506	1:1.58	0.419	0.191	0.04	19.91	21.00	1.285	0.539	22.1	
Left side	20	QPSK 1_0	39750/2506	1:1.58	0.063	0.035	0.11	19.91	21.00	1.285	0.081	22.1	
Right side	20	QPSK 1_0	39750/2506	1:1.58	0.009	0.004	0.10	19.91	21.00	1.285	0.012	22.1	
Bottom side	20	QPSK 1_0	39750/2506	1:1.58	0.642	0.257	0.14	19.91	21.00	1.285	0.825	22.1	
Back side	20	QPSK 1_0	40185/2549.5	1:1.58	0.524	0.223	-0.05	19.48	21.00	1.419	0.744	22.1	
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.444	0.195	0.00	19.75	21.00	1.334	0.592	22.1	
Back side	20	QPSK 1_0	41055/2636.5	1:1.58	0.203	0.096	0.07	19.49	21.00	1.416	0.287	22.1	
Back side	20	QPSK 1_50	41490/2680	1:1.58	0.115	0.052	-0.13	19.59	21.00	1.384	0.159	22.1	
Bottom side	20	QPSK 1_0	40185/2549.5	1:1.58	0.636	0.286	-0.05	19.48	21.00	1.419	0.903	22.1	
Bottom side	20	QPSK 1_0	40620/2593	1:1.58	0.328	0.144	-0.11	19.75	21.00	1.334	0.437	22.1	
Bottom side	20	QPSK 1_0	41055/2636.5	1:1.58	0.155	0.072	-0.01	19.49	21.00	1.416	0.219	22.1	
Bottom side	20	QPSK 1_50	41490/2680	1:1.58	0.096	0.044	-0.15	19.59	21.00	1.384	0.133	22.1	
Bottom side with Batterly 2	20	QPSK 1_0	40185/2549.5	1:1.58	0.505	0.248	-0.11	19.48	21.00	1.419	0.717	22.1	
Hotspot&Body worn Test data (Separate 10mm 50%RB) State 1													
Front side	20	QPSK 50_0	39750/2506	1:1.58	0.165	0.073	-0.10	18.86	20.00	1.300	0.215	22.1	
Back side	20	QPSK 50_0	39750/2506	1:1.58	0.342	0.158	-0.18	18.86	20.00	1.300	0.445	22.1	
Left side	20	QPSK 50_0	39750/2506	1:1.58	0.053	0.029	0.18	18.86	20.00	1.300	0.069	22.1	
Right side	20	QPSK 50_0	39750/2506	1:1.58	0.008	0.004	-0.15	18.86	20.00	1.300	0.010	22.1	
Bottom side	20	QPSK 50_0	39750/2506	1:1.58	0.504	0.215	-0.04	18.86	20.00	1.300	0.655	22.1	
Back side	20	QPSK 50_50	40185/2549.5	1:1.58	0.437	0.193	0.03	18.49	20.00	1.416	0.619	22.1	
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.337	0.154	0.03	18.56	20.00	1.393	0.469	22.1	
Back side	20	QPSK 50_25	41055/2636.5	1:1.58	0.156	0.066	0.15	18.30	20.00	1.479	0.231	22.1	



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Back side	20	QPSK 50_0	41490/2680	1:1.58	0.083	0.038	0.11	18.60	20.00	1.380	0.115	22.1
Bottom side	20	QPSK 50_50	40185/2549.5	1:1.58	0.397	0.175	0.14	18.49	20.00	1.416	0.562	22.1
Bottom side	20	QPSK 50_0	40620/2593	1:1.58	0.254	0.116	0.07	18.56	20.00	1.393	0.354	22.1
Bottom side	20	QPSK 50_25	41055/2636.5	1:1.58	0.122	0.059	0.12	18.30	20.00	1.479	0.180	22.1
Bottom side	20	QPSK 50_0	41490/2680	1:1.58	0.077	0.036	0.02	18.60	20.00	1.380	0.106	22.1
		Hot	spot&Body wo	rn Test d	ata (Sep	arate 10r	nm 100%	6RB) State 1				
Back side	20	QPSK 100_0	39750/2506	1:1.58	0.321	0.131	-0.14	18.70	20.00	1.349	0.433	22.1
Bottom side	20	QPSK 100_0	39750/2506	1:1.58	0.523	0.214	0.16	18.70	20.00	1.349	0.706	22.1



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8.2.12 SAR Result of LTE Band 66

			LTI	E Band	66 SAR	Test Re	cord					
				Ant	1 Test R	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.(℃)
			H	ead Tes	t Data (1	RB) Sta	te 2					
Left cheek	20	QPSK 1_50	132072/1720	1:1	0.100	0.073	0.19	22.83	23.50	1.167	0.117	22.1
Left tilted	20	QPSK 1_50	132072/1720	1:1	0.108	0.068	-0.06	22.83	23.50	1.167	0.126	22.1
Right cheek	20	QPSK 1_50	132072/1720	1:1	0.104	0.074	-0.11	22.83	23.50	1.167	0.121	22.1
Right tilted	20	QPSK 1_50	132072/1720	1:1	0.096	0.061	-0.17	22.83	23.50	1.167	0.112	22.1
			Hea	ad Test	Data (50	%RB) St	ate 2					
Left cheek	20	QPSK 50_25	132322/1745	1:1	0.117	0.074	-0.05	21.38	22.50	1.294	0.151	22.1
Left tilted	20	QPSK 50_25	132322/1745	1:1	0.117	0.075	0.13	21.38	22.50	1.294	0.151	22.1
Right cheek	20	QPSK 50_25	132322/1745	1:1	0.125	0.081	-0.17	21.38	22.50	1.294	0.162	22.1
Right tilted	20	QPSK 50_25	132322/1745	1:1	0.091	0.061	-0.04	21.38	22.50	1.294	0.118	22.1
Right cheek with Batterly 2	20	QPSK 50_25	132322/1745	1:1	0.117	0.073	-0.02	21.38	22.50	1.294	0.151	22.1
		Ho	tspot&Body wo	orn Test	data (Se	eparate 1	0mm 1F	RB) State 1				
Front side	20	QPSK 1_50	132072/1720	1:1	0.321	0.183	0.04	21.59	22.50	1.233	0.396	22.1
Back side	20	QPSK 1_50	132072/1720	1:1	0.603	0.334	0.10	21.59	22.50	1.233	0.744	22.1
Left side	20	QPSK 1_50	132072/1720	1:1	0.109	0.068	0.14	21.59	22.50	1.233	0.134	22.1
Right side	20	QPSK 1_50	132072/1720	1:1	0.069	0.041	-0.05	21.59	22.50	1.233	0.085	22.1
Bottom side	20	QPSK 1_50	132072/1720	1:1	0.778	0.436	0.04	21.59	22.50	1.233	0.959	22.1
Bottom side	20	QPSK 1_50	132322/1745	1:1	0.930	0.489	0.18	21.44	22.50	1.276	1.187	22.1
Bottom side	20	QPSK 1_50	132572/1770	1:1	0.948	0.514	0.00	21.52	22.50	1.253	1.188	22.1
Bottom side with Repeat	20	QPSK 1_50	132572/1770	1:1	0.942	0.507	0.05	21.52	22.50	1.253	1.180	22.1
Bottom side with Batterly 2	20	QPSK 1_50	132572/1770	1:1	0.877	0.477	-0.06	21.52	22.50	1.253	1.099	22.1
		Hots	spot&Body wor	n Test c	lata (Sep	arate 10	mm 50%	6RB) State 1				
Front side	20	QPSK 50_50	132322/1745	1:1	0.303	0.180	-0.13	20.37	21.50	1.297	0.393	22.1
Back side	20	QPSK 50_50	132322/1745	1:1	0.517	0.296	0.11	20.37	21.50	1.297	0.671	22.1
Left side	20	QPSK 50_50	132322/1745	1:1	0.132	0.079	-0.12	20.37	21.50	1.297	0.171	22.1
Right side	20	QPSK 50_50	132322/1745	1:1	0.072	0.036	-0.12	20.37	21.50	1.297	0.093	22.1
Bottom side	20	QPSK 50_50	132322/1745	1:1	0.757	0.366	0.17	20.37	21.50	1.297	0.982	22.1
Bottom side	20	QPSK 50_50	132072/1720	1:1	0.646	0.333	0.04	20.30	21.50	1.318	0.852	22.1
Bottom side	20	QPSK 50_25	132572/1770	1:1	0.737	0.366	0.09	20.17	21.50	1.358	1.001	22.1
		Hots	pot&Body worn	Test d	ata (Sepa	arate 10r	mm 1009	%RB) State 1				
Bottom side	20	QPSK 100_0	132322/1745	1:1	0.735	0.361	0.17	20.28	21.50	1.324	0.973	22.1



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Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	(19)	SAR (1g)		SAR (1g)	SAR (1g)
Bottom side	132572/1770	0.948	0.942	1.006	N/A	N/A

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



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

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

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

⁵⁾ The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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8.2.13 SAR Result of WIFI 2.4G

	Wi-Fi 2.4G SAR Test Record													
				Ant	3 Test R	ecord o	hain0							
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)	•	Scaled factor		Liquid Temp.(℃)		
					Head T	est Data	a							
Left cheek	802.11b	6/2437	98.94%	1.011	0.215	0.106	0.05	16.67	17.50	1.211	0.263	22.1		
Left tilted	802.11b	6/2437	98.94%	1.011	0.185	0.092	-0.19	16.67	17.50	1.211	0.226	22.1		
Right cheek	802.11b	6/2437	98.94%	1.011	0.139	0.088	0.06	16.67	17.50	1.211	0.170	22.1		
Right tilted	802.11b	6/2437	98.94%	1.011	0.098	0.057	0.13	16.67	17.50	1.211	0.120	22.1		
Left cheek with Batterly 2	802.11b	6/2437	98.94%	1.011	0.197	0.075	0.00	16.67	17.50	1.211	0.241	22.1		
			Hotspo	t&Body	worn Te	st data (Separate	: 10mm)						
Front side	802.11b	6/2437	98.94%	1.011	0.046	0.027	0.07	16.67	17.50	1.211	0.056	22.1		
Back side	802.11b	6/2437	98.94%	1.011	0.112	0.055	0.07	16.67	17.50	1.211	0.137	22.1		
Right side	802.11b	6/2437	98.94%	1.011	0.079	0.042	-0.10	16.67	17.50	1.211	0.097	22.1		
Top side	802.11b	6/2437	98.94%	1.011	0.034	0.018	-0.02	16.67	17.50	1.211	0.042	22.1		
Back side with Batterly 2	802.11b	6/2437	98.94%	1.011	0.099	0.053	-0.15	16.67	17.50	1.211	0.121	22.1		





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8.2.14 SAR Result of BT

	Bluetooth SAR Test Record														
	Ant 3 Test Record														
Test position	Test mode	Test ch./Freq.		Duty Cycle Scaled factor		SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor		Liquid Temp.(℃)			
	Head Test Data														
Left cheek DH5 0/2402 77.58% 1.289 0.030 0.014 -0.07 6.47 7.00 1.130 0.044 22.1															
Left tilted	Left tilted DH5 0/2402 77.58% 1.289 0.020 0.011 0.17 6.47 7.00 1.130 0.029 22.														
Right cheek	DH5	0/2402	77.58%	1.289	0.023	0.013	0.19	6.47	7.00	1.130	0.033	22.1			
Right tilted	DH5	0/2402	77.58%	1.289	0.015	0.006	0.10	6.47	7.00	1.130	0.022	22.1			
Left cheek with Batterly 2	DH5	0/2402	77.58%	1.289	0.028	0.013	-0.13	6.47	7.00	1.130	0.041	22.1			
			Hotspot	&Body	worn Te	est data (S	Separate	10mm)							
Front side	DH5	0/2402	77.58%	1.289	0.009	0.004	0.08	6.47	7.00	1.130	0.013	22.1			
Back side	DH5	0/2402	77.58%	1.289	0.016	0.008	0.04	6.47	7.00	1.130	0.023	22.1			
Right side	DH5	0/2402	77.58%	1.289	0.015	0.007	0.06	6.47	7.00	1.130	0.022	22.1			
Top side	DH5	0/2402	77.58%	1.289	0.013	0.006	0.08	6.47	7.00	1.130	0.019	22.1			
Back side with Batterly 2	DH5	0/2402	77.58%	1.289	0.011	0.007	0.05	6.47	7.00	1.130	0.016	22.1			





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Multiple Transmitter Evaluation 8.3

8.3.1 Simultaneous SAR test evaluation

No	Simultaneous Tx Combination	Head	Body	Hotspot	Product Specific 10-g (0mm)
1	WWAN + WLAN 2.4GHz	Yes	Yes	Yes	Yes
2	WWAN + BT	Yes	Yes	Yes	Yes

Note:

1) The device does not support DTM function.





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8.3.2 Simultaneous Transmission SAR Summation Scenario

Head:

Test position		SARmax (W/kg)				
		WWAN Max SAR	WiFi 2.4G Ant3	ВТ	Summed SAR	
		1	2	3	1+2	1+3
	Left cheek	0.935	0.263	0.044	1.198	0.979
0014050	Left tilted	0.674	0.226	0.029	0.900	0.703
GSM850	Right cheek	1.334	0.170	0.033	1.504	1.367
	Right tilted	1.059	0.120	0.022	1.179	1.081
	Left cheek	0.081	0.263	0.044	0.344	0.125
GSM1900	Left tilted	0.049	0.226	0.029	0.275	0.078
GSW1900	Right cheek	0.049	0.170	0.033	0.219	0.082
	Right tilted	0.013	0.120	0.022	0.133	0.035
	Left cheek	0.129	0.263	0.044	0.392	0.173
WCDMA DO	Left tilted	0.129	0.226	0.029	0.355	0.158
WCDMA B2	Right cheek	0.154	0.170	0.033	0.324	0.187
	Right tilted	0.099	0.120	0.022	0.219	0.121
	Left cheek	0.157	0.263	0.044	0.420	0.201
WCDMA D4	Left tilted	0.152	0.226	0.029	0.378	0.181
WCDMA B4	Right cheek	0.185	0.170	0.033	0.355	0.218
	Right tilted	0.141	0.120	0.022	0.261	0.163
	Left cheek	0.700	0.263	0.044	0.963	0.744
WCDMA DE	Left tilted	0.610	0.226	0.029	0.836	0.639
WCDMA B5	Right cheek	0.988	0.170	0.033	1.158	1.021
	Right tilted	0.842	0.120	0.022	0.962	0.864
	Left cheek	0.156	0.263	0.044	0.419	0.200
LTE DO	Left tilted	0.150	0.226	0.029	0.376	0.179
LTE B2	Right cheek	0.158	0.170	0.033	0.328	0.191
	Right tilted	0.115	0.120	0.022	0.235	0.137
	Left cheek	0.064	0.263	0.044	0.327	0.108
LTE DZ	Left tilted	0.052	0.226	0.029	0.278	0.081
LTE B7	Right cheek	0.046	0.170	0.033	0.216	0.079
	Right tilted	0.033	0.120	0.022	0.153	0.055
	Left cheek	0.380	0.263	0.044	0.643	0.424
LTE D40	Left tilted	0.277	0.226	0.029	0.503	0.306
LTE B12	Right cheek	0.513	0.170	0.033	0.683	0.546
	Right tilted	0.457	0.120	0.022	0.577	0.479
	Left cheek	0.406	0.263	0.044	0.669	0.450
LTE DAG	Left tilted	0.277	0.226	0.029	0.503	0.306
LTE B13	Right cheek	0.526	0.170	0.033	0.696	0.559
	Right tilted	0.404	0.120	0.022	0.524	0.426
	Left cheek	0.711	0.263	0.044	0.974	0.755
LTE BOO	Left tilted	0.633	0.226	0.029	0.859	0.662
LTE B26	Right cheek	1.081	0.170	0.033	1.251	1.114
	Right tilted	0.820	0.120	0.022	0.940	0.842
LTE B28	Left cheek	0.575	0.263	0.044	0.838	0.619



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	Left tilted	0.417	0.226	0.029	0.643	0.446
	Right cheek	0.593	0.170	0.033	0.763	0.626
	Right tilted	0.495	0.120	0.022	0.615	0.517
	Left cheek	0.039	0.263	0.044	0.302	0.083
LTE B41	Left tilted	0.034	0.226	0.029	0.260	0.063
	Right cheek	0.022	0.170	0.033	0.192	0.055
	Right tilted	0.018	0.120	0.022	0.138	0.040
	Left cheek	0.151	0.263	0.044	0.414	0.195
LTE B66	Left tilted	0.151	0.226	0.029	0.377	0.180
	Right cheek	0.162	0.170	0.033	0.332	0.195
	Right tilted	0.118	0.120	0.022	0.238	0.140



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Body Worn&Hotspot:

Body_Worn&	Tiotopot.	SARmax (W/kg)			Summed SAR		
Test position		WWAN Max SAR					
		1	2	3	1+2	1+3	
	Front side	0.328	0.056	0.007	0.384	0.335	
	Back side	0.689	0.137	0.013	0.826	0.702	
GSM850	Left side	0.349	\	\	0.349	0.349	
GSIVIOSU	Right side	\	\	0.012	\	0.012	
	Top side	0.325	0.097	0.010	0.422	0.335	
	Bottom side	\	\	\	\	\	
	Front side	0.231	0.056	0.007	0.287	0.238	
	Back side	0.347	0.137	0.013	0.484	0.360	
GSM1900	Left side	0.140	\	\	0.140	0.140	
GSW1900	Right side	0.053	\	0.012	0.053	0.065	
	Top side	\	0.097	0.010	0.097	0.010	
	Bottom side	0.616	\	\	0.616	0.616	
	Front side	0.417	0.056	0.007	0.473	0.424	
	Back side	0.640	0.137	0.013	0.777	0.653	
WCDMA B2	Left side	0.232	\	\	0.232	0.232	
WCDIVIA BZ	Right side	0.069	\	0.012	0.069	0.081	
	Top side	\	0.097	0.010	0.097	0.010	
	Bottom side	1.105	\	\	1.105	1.105	
	Front side	0.330	0.056	0.007	0.386	0.337	
	Back side	0.581	0.137	0.013	0.718	0.594	
WCDMA B4	Left side	0.123	\	\	0.123	0.123	
WCDIVIA 64	Right side	0.071	\	0.012	0.071	0.083	
	Top side	\	0.097	0.010	0.097	0.010	
	Bottom side	0.820	\	\	0.820	0.820	
	Front side	0.239	0.056	0.007	0.295	0.246	
	Back side	0.475	0.137	0.013	0.612	0.488	
WCDMA B5	Left side	0.337	\	\	0.337	0.337	
WCDIVIA B3	Right side	0.152	\	0.012	0.152	0.164	
	Top side	0.288	0.097	0.010	0.385	0.298	
	Bottom side	\	\	\	\	\	
	Front side	0.397	0.056	0.007	0.453	0.404	
	Back side	0.614	0.137	0.013	0.751	0.627	
LTE B2	Left side	0.210	\	\	0.210	0.210	
LIL DZ	Right side	0.063	\	0.012	0.063	0.075	
	Top side	\	0.097	0.010	0.097	0.010	
	Bottom side	1.077	\	\	1.077	1.077	
	Front side	0.290	0.056	0.007	0.346	0.297	
	Back side	0.829	0.137	0.013	0.966	0.842	
LTE B7	Left side	0.074	\	\	0.074	0.074	
2,20,	Right side	0.053	\	0.012	0.053	0.065	
	Top side	\	0.097	0.010	0.097	0.010	
	Bottom side	0.884	\	\	0.884	0.884	
LTE B12	Front side	0.224	0.056	0.007	0.280	0.231	
	Back side	0.331	0.137	0.013	0.468	0.344	



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	Left side	0.269	\	\	0.269	0.269
	Right side	0.110	\	0.012	0.110	0.122
	Top side	0.128	0.097	0.010	0.225	0.138
	Bottom side	\	\	\	\	\
	Front side	0.212	0.056	0.007	0.268	0.219
	Back side	0.321	0.137	0.013	0.458	0.334
LTE DAG	Left side	0.369	\	\	0.369	0.369
LTE B13	Right side	0.134	\	0.012	0.134	0.146
	Top side	0.125	0.097	0.010	0.222	0.135
	Bottom side	\	\	\	\	1
	Front side	0.284	0.056	0.007	0.340	0.291
	Back side	0.477	0.137	0.013	0.614	0.490
LTE DOG	Left side	0.369	\	\	0.369	0.369
LTE B26	Right side	0.129	\	0.012	0.129	0.141
	Top side	0.346	0.097	0.010	0.443	0.356
	Bottom side	\	\	/	\	1
	Front side	0.202	0.056	0.007	0.258	0.209
	Back side	0.293	0.137	0.013	0.430	0.306
LTE B28	Left side	0.380	\	\	0.380	0.380
LIE DZO	Right side	0.163	\	0.012	0.163	0.175
	Top side	0.125	0.097	0.010	0.222	0.135
	Bottom side	\	\	\	\	\
	Front side	0.256	0.056	0.007	0.312	0.263
	Back side	0.744	0.137	0.013	0.881	0.757
LTE D44	Left side	0.081	\	/	0.081	0.081
LTE B41	Right side	0.012	\	0.012	0.012	0.024
	Top side	0.000	0.097	0.010	0.097	0.010
	Bottom side	0.903	\	/	0.903	0.903
	Front side	0.396	0.056	0.007	0.452	0.403
	Back side	0.744	0.137	0.013	0.881	0.757
LTE Dec	Left side	0.171	\	1	0.171	0.171
LTE B66	Right side	0.093	\	0.012	0.093	0.105
	Top side	0.000	0.097	0.010	0.097	0.010
	Bottom side	1.188	\	1	1.188	1.188



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Equipment list 9

Test Platform SPEAG DASY Professional					
Description SAR Test System					
Software Reference	DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483);				
Software Reference	cDASY8 V16.4.0.5005				
Hardware Reference					

	Hardware Reference								
	Equipment	Manufacturer	Model	Inventory No.	Calibration	Due date of			
	Equipment			inventory No.	Date	calibration			
\boxtimes	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-025	NCR	NCR			
\boxtimes	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-026	NCR	NCR			
\boxtimes	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-027	NCR	NCR			
\boxtimes	DAE	SPEAG	DAE4	SZ-WSR-M-028	2024/04/16	2025/04/15			
\boxtimes	DAE	SPEAG	DAE4	SZ-WSR-M-029	2025/01/20	2026/01/19			
\boxtimes	DAE	SPEAG	DAE4ip	SZ-WSR-M-074	2024/08/08	2025/08/07			
\boxtimes	DAE	SPEAG	DAE4ip	SZ-WSR-M-078	2024/10/18	2025/10/17			
\boxtimes	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-068	2025/01/15	2026/01/14			
\boxtimes	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-075	2024/08/29	2025/08/28			
\boxtimes	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-079	2024/11/20	2025/11/19			
\boxtimes	Validation Kits	SPEAG	D750V3	SZ-WSR-M-032	2022/06/06	2025/06/05			
\boxtimes	Validation Kits	SPEAG	D835V2	SZ-WSR-M-033	2022/11/02	2025/11/01			
\boxtimes	Validation Kits	SPEAG	D1750V2	SZ-WSR-M-035	2022/06/17	2025/06/16			
\boxtimes	Validation Kits	SPEAG	D1950V3	SZ-WSR-M-037	2022/10/31	2025/10/30			
\boxtimes	Validation Kits	SPEAG	D2300V2	SZ-WSR-M-038	2022/06/16	2025/06/15			
\boxtimes	Validation Kits	SPEAG	D2450V2	SZ-WSR-M-039	2022/11/02	2025/11/01			
\boxtimes	Validation Kits	SPEAG	D2600V2	SZ-WSR-M-040	2022/06/14	2025/06/13			
\boxtimes	Dielectric parameter probes	SPEAG	DAKS-3.5	SZ-WSR-M-053	2024/06/26	2025/06/25			
\boxtimes	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	SZ-WSR-M-054	2024/06/26	2025/06/25			
\boxtimes	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-005	2025/01/08	2026/01/07			
	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-018	2024/05/24	2025/05/23			
\boxtimes	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-020	2024/08/19	2025/08/18			
\boxtimes	RF Bi-Directional Coupler	Agilent	86205- 60001	SZ-WSR-A-004	NCR	NCR			
\boxtimes	Signal Generator	Agilent	N5171B	SZ-WSR-M-006	2025/01/07	2026/01/06			
\boxtimes	Preamplifier	Mini-Circuits	ZHL-42W	SZ-WSR-A-001	NCR	NCR			
\boxtimes	Preamplifier	Compliance Directions Systems Inc.	AMP28-3W	SZ-WSR-A-002	NCR	NCR			
\boxtimes	Power Meter	Agilent	E4416A	SZ-WSR-M-007	2025/01/07	2026/01/06			



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\square	Power Sensor	Agilent	8481H	SZ-WSR-M-008	2025/01/07	2026/01/06
\boxtimes	Power Sensor	R&S	NRP-Z92	SZ-WSR-M-009	2025/01/08	2026/01/07
\boxtimes	Attenuator	SHX	TS2-3dB	SZ-WSR-A-012	NCR	NCR
\boxtimes	Speed reading thermometer	Zhengzhou Boyang Instrument	TP3001	SZ-WSR-M-014	2024/05/30	2025/05/29
\boxtimes	Temperature	MingGao	T809	SZ-WSR-M-015	2024/05/30	2025/05/29
\boxtimes	Temperature	MingGao	T809	SZ-WSR-M-016	2024/05/30	2025/05/29
\boxtimes	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-013	2024/05/28	2025/05/27
\boxtimes	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-012	2024/05/28	2025/05/27
\boxtimes	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-011	2024/05/28	2025/05/27

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



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Calibration certificate 10

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 ---

