

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-02 Rev. A/1

Report No.: FYCR260600017610

Page: 1 of 87

SAR TEST REPORT

Application No.: FYCR2606000176AT

Applicant: Fujian LANDI Commercial Equipment Co.,Ltd.

Address of Applicant: Building 17, Section A, Software Park, No. 89 Software Road, Gulou District, Fuzhou Municipality, Fujian Province, P.R. China

Manufacturer: Fujian LANDI Commercial Equipment Co.,Ltd.

Address of Manufacturer: Building 17, Section A, Software Park, No. 89 Software Road, Gulou District, Fuzhou Municipality, Fujian Province, P.R. China

EUT Description: Payment Terminal

Model No.: P10A01, P10A0100, P10A0101, P10A0102, P10A0103, P10A0104, P10A0105, P10A0106, P10A0107, P10A0108, P10A0109, P10A0110, P10A0111, P10A0112, P10A0113, P10A0114, P10A0115, P10A0116, P10A0117, P10A0118, P10A0119, P10A0120, P10A0121, P10A0122, P10A0123, P10A0124, P10A0125, P10A0126, P10A0127, P10A0128, P10A0129, P10A0130, P10A0131, P10A0132, P10A0133, P10A0134, P10A0135, P10A0136, P10A0137, P10A0138, P10A0139 ♣

♣ Please refer to section 1.1 of this report which indicates which model was actually tested and which were electrically identical.

Trade Mark: LANDI

FCC ID: 2AG6N-P10UA

Standards: FCC 47CFR §2.1093

Date of Receipt: 2026-06-26

Date of Test: 2026-07-06 to 2026-07-20

Date of Issue: 2026-07-29

Test Result :	PASS *
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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	Description	Date	Remark
01		2026-07-29	Original

Authorized for issue by:				
		Byron Liang		
		Byron Liang/Project Engineer		
		Tree Zhan		
		Tree Zhan / Reviewer		



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TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)
	Extremity 10g SAR
GSM850	1.06
GSM1900	1.40
WCDMA Band II	2.79
WCDMA Band IV	2.67
WCDMA Band V	0.83
LTE Band 2	2.42
LTE Band 4	2.71
LTE Band 5	0.92
LTE Band 7	3.29
LTE Band 38	2.02
WI-FI (2.4GHz)	1.05
WI-FI (5GHz)	0.69
BT	0.10
SAR Limited(W/kg)	4
Maximum Simultaneous Transmission SAR (W/kg)	
Scenario	Extremity 10g SAR
Sum SAR	3.74



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1 General Information

1.1 General Description of EUT

Product Name:	Payment Terminal		
Model No.:	P10A01		
Trade Mark:	LANDI		
Product Phase:	production unit		
Device Type:	portable device		
Exposure Category:	uncontrolled environment / general population		
SN:	2625KP300035, 2625KP300034		
Hardware Version:	V1.0.0		
Software Version:	V1.0.0		
Antenna Type:	PIFA antenna		
Device Operating Configurations:			
Test Mode Configuration:	GSM: GMSK,8PSK; WCDMA: QPSK,16QAM; LTE: QPSK,16QAM; WIFI: DSSS,OFDM; BT: GFSK, π/4DQPSK,8DPSK		
Device Class:	B		
GPRS Multi-slots Class:	12	EGPRS Multi-slots Class:	12
HSDPA UE Category:	14	HSUPA UE Category:	6
Power Class:	4, tested with power level 5(GSM850)		
	1, tested with power level 0(GSM1900)		
	3, tested with power control “all 1”(WCDMA Band)		
	3, tested with power control “max power”(LTE Band)		
Frequency Bands:	Band	Tx(MHz)	
	GSM850	824~849	
	GSM1900	1850~1910	
	WCDMA Band II	1850~1910	
	WCDMA Band IV	1710~1755	
	WCDMA Band V	824~849	
	LTE Band 2	1850 ~1910	
	LTE Band 4	1710~1755	
	LTE Band 5	824~849	
	LTE Band 7	2500~2570	



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	LTE Band 38	2570~2620
	WIFI 2.4G	2412~2462
	WIFI 5G	5250~5350
		5470~5725
		5725~5850
	BT	2402~2480
NFC	13.56	
RF Cable:	☒ Provided by applicant ☐ Provided by the laboratory	
Battery Information#1:	Model:	LD18650M
	Normal Voltage:	DC7.2V
	Rated capacity:	2500mAh
	Manufacturer:	Xinyu Ganfeng Electronic Co.,Ltd.
Battery Information#2:	Model:	LD18650M
	Normal Voltage:	DC7.2V
	Rated capacity:	3250mAh
	Manufacturer:	Xinyu Ganfeng Electronic Co.,Ltd.
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.		



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Declaration of EUT Family Grouping:

Model No.: P10A01, P10A0100, P10A0101, P10A0102, P10A0103, P10A0104, P10A0105, P10A0106, P10A0107, P10A0108, P10A0109, P10A0110, P10A0111, P10A0112, P10A0113, P10A0114, P10A0115, P10A0116, P10A0117, P10A0118, P10A0119, P10A0120, P10A0121, P10A0122, P10A0123, P10A0124, P10A0125, P10A0126, P10A0127, P10A0128, P10A0129, P10A0130, P10A0131, P10A0132, P10A0133, P10A0134, P10A0135, P10A0136, P10A0137, P10A0138, P10A0139

Only the model P10A01 with configuration GXH496YVJ02-01 panel and LD18650M: 2500mAh battery was fully tested, configuration H.055.039A00 panel and LD18650M: 3250mAh battery was selected for discrepancy test, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for all the above models, with the difference on the screen size and the battery capacity as bellow.

Model	LCD Panel	Battery Model
P10A01	GXH496YVJ02-01	LD18650M: 2500mAh
P10A01	GXH496YVJ02-01	LD18650M: 3250mAh
P10A01	H.055.039A00	LD18650M: 2500mAh
P10A01	H.055.039A00	LD18650M: 3250mAh

Remark: this device contains two SIM card slots, both SIM card slots had been tested and only recorded the worst case data in the report.



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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 248227 D01	SAR Guidance for IEEE 802.11 Wi-Fi SAR v02r02
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
KDB 775926 D01	SAR Testing for Irregular Shaped Devices v01



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1.3 RF exposure limits

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

Notes:

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

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

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

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

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



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1.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

1.5 Test Engineer

Test Engineer: Jim Wang

1.6 Test Facility

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

• A2LA (Certificate No. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 6606.01.

• FCC –Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189



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2 Laboratory Environment

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



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3 SAR Measurements System 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 $SAR = \sigma (|E|^2) / \rho$ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

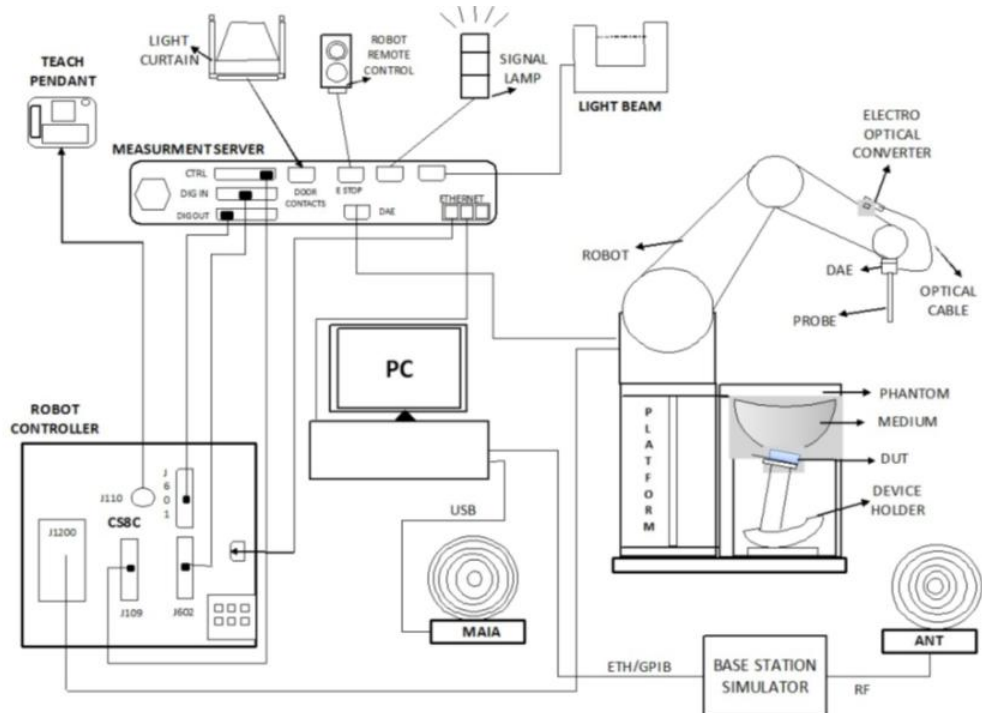
The DASY system for performing compliance tests consists of the following items:

A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software. An arm extension for accommodation the data acquisition electronics (DAE).

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

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

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



F-1. SAR Measurement System Configuration

- The function of the measurement server is to perform the time critical tasks such as signal filtering,



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control of the robot operation and fast movement interrupts.

- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows system.
- DASY software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validating the proper functioning of the system.



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3.2 Isotropic E-field Probe EX3DV4

	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available.
Frequency	4 MHz - 10 GHz Linearity: ± 0.2 dB (30 MHz - 10 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μ W/g - 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)
Dimensions	Overall length: 337 mm (Tip: 9 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 10 GHz with precision of better 30%.
Compatibility	DASY52 SAR and higher, EASY4/MRI

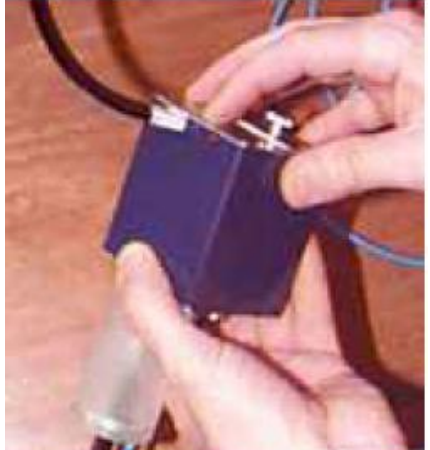


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3.3 Data Acquisition Electronics (DAE)

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

3.4 SAM Twin Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)	
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)	
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)	
Dimensions (incl. Wooden Support)	Length: 1000 mm Width: 500 mm Height: adjustable feet	
Filling Volume	approx.. 25 liters	
Wooden Support	SPEAG standard phantom table	

The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom. 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	approx.. 30 liters	
Wooden Support	SPEAG standard phantom table	

Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 4 MHz to 10 GHz. 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 $\epsilon=3$ and loss tangent $\delta=0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.

3.7 Measurement Procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

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

Step 2: Area scan

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

Step 3: Zoom scan

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

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

If the zoom scan measured as specified in the preceding paragraphs complies with both i) and ii), or if the psSAR is below 0,1 W/kg, no additional measurements are needed.

i) The smallest horizontal distance from the local SAR peaks to all points 3 dB below the SAR peak shall be larger than the horizontal grid steps in both x- and y-directions (Δx , Δy). This shall be checked for the measured zoom scan plane conformal to the phantom at the distance zM1. The minimum distance shall be recorded in the SAR test report.

ii) The ratio of the SAR at the second measured point (M2) to the SAR at the closest measured point (M1) at the x-y location of the measured maximum SAR value shall be at least 30 %. This ratio (in %) shall be recorded in the SAR test report.



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

Step 4: Power reference measurement (drift)

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



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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	f
- Crest factor	cf	
Media parameters:	- Conductivity	ε
- Density	ρ	

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

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

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

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

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

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

cf = crest factor of exciting field (DASY parameter)

dcp I = diode compression point (DASY parameter)

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

E-field probes:

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



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H-field probes:

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

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

Normi = sensor sensitivity of channel i ($i = x, y, z$)

[mV/(V/m)²] for E-field Probes

ConvF = sensitivity enhancement in solution

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

f = carrier frequency [GHz]

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

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

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

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

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

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

with SAR = local specific absorption rate in mW/g

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

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

ϵ = equivalent tissue density in g/cm³

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

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

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

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

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



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4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

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

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

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

4.2 SAR measurement uncertainty

Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.



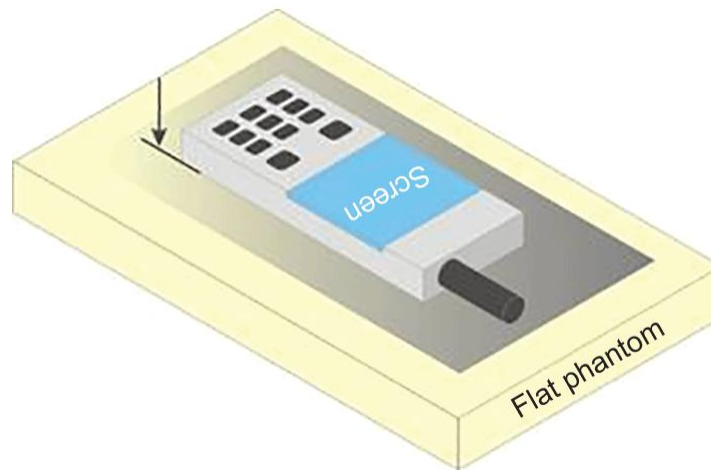
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5 Description of Test Position

5.1 Hand-held usage of the device, not at the head or torso

When SAR measurement is necessary for hand-held devices that do not transmit while at the head or torso, a flat phantom may be used. To assess this type of device, the device shall be placed directly against the flat phantom as shown in the below Figure, for the sides of the device that are in contact with the hand for the intended use.



a) Test position for hand-held devices, not used at the head or torso

6 SAR System Verification Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

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

Ingredients (% by weight)	Frequency (MHz)				
	450	700-1000	1700-2000	2300-2500	2500-2700
Water	38.56	40.30	55.24	55.00	54.92
Salt (NaCl)	3.95	1.38	0.31	0.2	0.23
Sucrose	56.32	57.90	0	0	0
HEC	0.98	0.24	0	0	0
Bactericide	0.19	0.18	0	0	0
Tween	0	0	44.45	44.80	44.85
Salt: 99+% Pure Sodium Chloride Water: De-ionized, 16 MQ+ resistivity Tween: Polyoxyethylene (20) sorbitan monolaurate Sucrose: 98+% Pure Sucrose HEC: Hydroxyethyl Cellulose					
Head Tissue Simulate Liquid (HBBL600-10000V6) is composed of the following ingredients: (Manufactured by SPEAG) Water: 50-65% Mineral oil: 10-30% Emulsifiers: 8-25% Sodium salt: 0-1.5%					

Table 1 : Recipe of Tissue Simulate Liquid



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6.1.2 Measurement for Tissue Simulate Liquid

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

Measurement for Tissue Simulate Liquid for System check									
Tissue Type	Measured Frequency (MHz)	Measured Tissue		Target Tissue ($\pm 5\%$)		Deviation (Within $\pm 5\%$)		Liquid Temp. ($^\circ\text{C}$)	Test Date
		ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$		
835 Head	835	41.413	0.910	41.50	0.90	-0.21%	1.11%	22.1	2026/7/6
1750 Head	1750	39.905	1.416	40.10	1.37	-0.49%	3.36%	22.2	2026/7/8
1950 Head	1950	40.660	1.432	40.00	1.40	1.65%	2.29%	21.9	2026/7/10
2450 Head	2450	38.907	1.858	39.20	1.80	-0.75%	3.22%	22.0	2026/7/14
2600 Head	2600	39.608	1.958	39.00	1.96	1.56%	-0.10%	21.8	2026/7/13
5250 Head	5250	37.188	4.809	35.90	4.71	3.59%	2.10%	22.1	2026/7/18
5600 Head	5600	36.236	5.202	35.50	5.07	2.07%	2.60%	22.2	2026/7/19
5750 Head	5750	35.872	5.376	35.40	5.22	1.33%	2.99%	22.1	2026/7/20

Table 2 : Measurement result of Tissue electric parameters



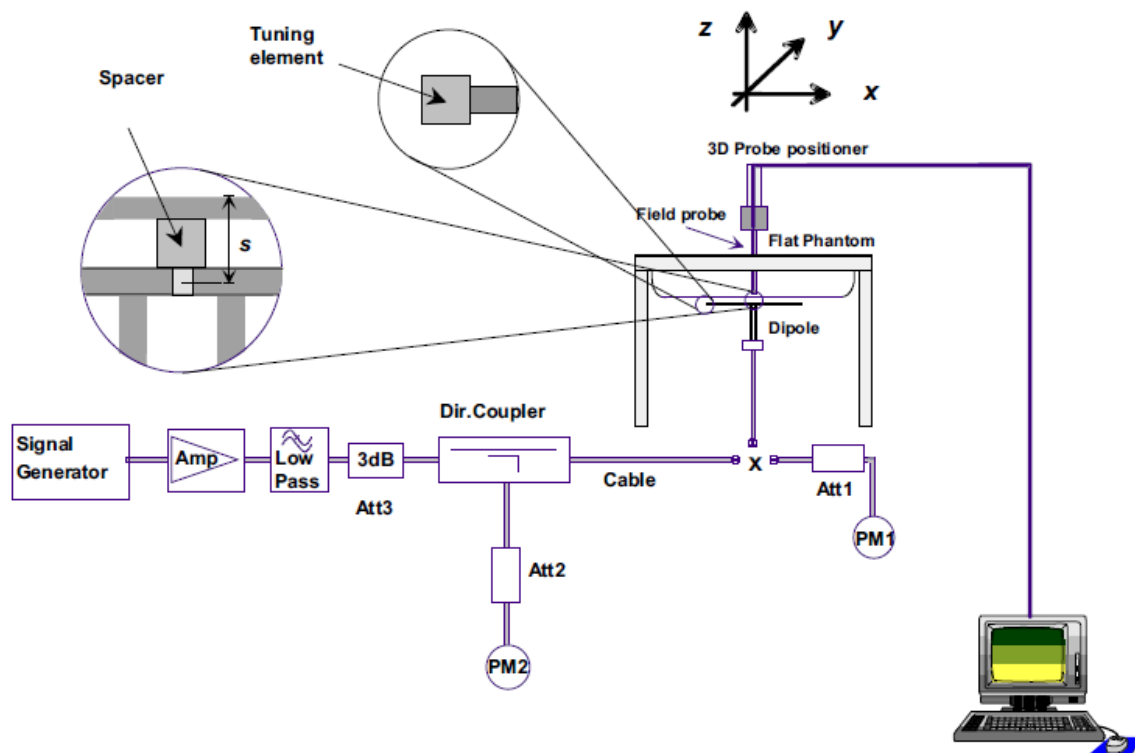
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6.2 SAR System Check

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



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

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6.2.1 Justification for Extended SAR Dipole Calibrations

1) Instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.

- a) There is no physical damage on the dipole;
- b) System check with specific dipole is within 10% of calibrated value;
- c) Return-loss is within 20% of calibrated measurement;
- d) Impedance is within 5Ω from the previous measurement.

2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.



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6.2.2 Summary System Check Result(s)

Validation Kit	Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within $\pm 10\%$)		Liquid Temp. ($^{\circ}\text{C}$)	Test Date
	1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1-g(W/kg)	10- g(W/kg)		
D835V2_Head	2.50	1.64	10.00	6.56	9.52	6.14	5.04%	6.84%	22.1	2026/7/6
D1750V2_Head	9.15	4.86	36.60	19.44	36.20	19.10	1.10%	1.78%	22.2	2026/7/8
D1950V3_Head	10.50	5.38	42.00	21.52	41.90	21.30	0.24%	1.03%	21.9	2026/7/10
D2450V2_Head	14.20	6.52	56.80	26.08	52.70	24.30	7.78%	7.33%	22.0	2026/7/14
D2600V2_Head	14.90	6.63	59.60	26.52	55.30	24.70	7.78%	7.37%	21.8	2026/7/13
Validation Kit	Measured SAR 100mW	Measured SAR 100mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within $\pm 10\%$)		Liquid Temp. ($^{\circ}\text{C}$)	Test Date
	1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1-g(W/kg)	10- g(W/kg)		
D5GHzV2_5.25G_Head	7.83	2.22	78.30	22.20	77.60	21.50	0.90%	3.26%	22.1	2026/7/18
D5GHzV2_5.6G_Head	8.03	2.29	80.30	22.90	82.90	22.80	-3.14%	0.44%	22.2	2026/7/19
D5GHzV2_5.75G_Head	8.05	2.28	80.50	22.80	78.30	21.20	2.81%	7.55%	22.1	2026/7/20

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 Operation Configurations

7.1.1 GSM Test Configuration

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

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

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

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

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

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

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

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

7.1.2 WCDMA Test Configuration

1) Output Power Verification

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

2) Head SAR

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

3) Body SAR

SAR for body configurations is measured using a 12.2 kbps RMC with TPC bits configured to all “1’s”. The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations



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supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreading code or DPDCHn, for the highest reported body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When more than 2 DPDCHn are supported by the handset, it may be necessary to configure additional DPDCHn using FTM (Factory Test Mode) or other chipset based test approaches with parameters similar to those used in 384 kbps and 768 kbps RMC.

4) HSDPA / HSUPA

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

a) HSDPA

HSDPA is configured according to the applicable UE category of a test device. The number of HS-DSCH/HS-PDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission conditions, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4 ms and a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors (β_c , β_d), and HS-DPCCH power offset parameters (Δ_{ACK} , Δ_{NACK} , Δ_{CQI}) are set according to values indicated in the following table. The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.

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

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

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

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



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The measurements were performed with a Fixed Reference Channel (FRC) and H-Set 1 QPSK.

Parameter	Value
Nominal average inf. bit rate	534 kbit/s
Inter-TTI Distance	3 TTI"s
Number of HARQ Processes	2 Processes
Information Bit Payload	3202 Bits
MAC-d PDU size	336 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	4800 Bits
Total Available SMLs in UE	19200 SMLs
Number of SMLs per HARQ Process	9600 SMLs
Coding Rate	0.67
Number of Physical Channel Codes	5

Table 4 : settings of required H-Set 1 QPSK acc. to 3GPP 34.121

HS-DSCH Category	MaximumHS-DSCH Codes Received	Minimum Inter-TTI Interval	MaximumHS-DSCH TransportBlockBits/HS-DSCH TTI	TotalSoft Channel Bits
1	5	3	7298	19200
2	5	3	7298	28800
3	5	2	7298	28800
4	5	2	7298	38400
5	5	1	7298	57600
6	5	1	7298	67200
7	10	1	14411	115200
8	10	1	14411	134400
9	15	1	25251	172800
10	15	1	27952	172800
11	5	2	3630	14400
12	5	1	3630	28800
13	15	1	34800	259200
14	15	1	42196	259200
15	15	1	23370	345600
16	15	1	27952	345600

Table 5 : HSDPA UE category

b) HSUPA

Due to inner loop power control requirements in HSUPA, a commercial communication test set should be used for the output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSUPA should be configured according to the values indicated below as well as other applicable procedures described in the WCDMA Handset and Release 5 HSUPA Data Device sections of 3G device.



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Sub-test ^o	$\beta_{c\downarrow}$	$\beta_{d\downarrow}$	β_d (SF)) ^o	β_c/β_d	$\beta_{hs}(1)$) ^o	β_{acc}	β_{ed}	$\beta_{c\downarrow}$ (SF)) ^o	$\beta_{ed\downarrow}$ (code)) ^o	CM(2)) ^o	MP R _c (dB)) ^o	AG ⁽⁴⁾ Inde x ^o	E- TFC I ^o
1 ^o	11/15 ⁽³⁾	15/15 ⁽³⁾	64 ^o	11/15 ⁽³⁾	22/15 ^o	209/22 5 ^o	1039/225 ^o	4 ^o	1 ^o	1.0 ^o	0.0 ^o	20 ^o	75 ^o
2 ^o	6/15 ^o	15/15 ^o	64 ^o	6/15 ^o	12/15 ^o	12/15 ^o	94/75 ^o	4 ^o	1 ^o	3.0 ^o	2.0 ^o	12 ^o	67 ^o
3 ^o	15/15 ^o	9/15 ^o	64 ^o	15/9 ^o	30/15 ^o	30/15 ^o	$\beta_{ed1}:47/1$ 5 ^o $\beta_{ed2}:47/1$ 5 ^o	4 ^o	2 ^o	2.0 ^o	1.0 ^o	15 ^o	92 ^o
4 ^o	2/15 ^o	15/15 ^o	64 ^o	2/15 ^o	4/15 ^o	2/15 ^o	56/75 ^o	4 ^o	1 ^o	3.0 ^o	2.0 ^o	17 ^o	71 ^o
5 ^o	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64 ^o	15/15 ⁽⁴⁾	30/15 ^o	24/15 ^o	134/15 ^o	4 ^o	1 ^o	1.0 ^o	0.0 ^o	21 ^o	81 ^o

Note 1: ΔACK , $\Delta NACK$ and $\Delta CQI=8$ $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_{c\downarrow}$
 Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference^o
 Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$ ^o
 Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$ ^o
 Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g^o
 Note 6: β_{ed} can not be set directly; it is set by Absolute Grant Value.^o

Table 6: Subtests for UMTS Release 6 HSUPA

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

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

Table 7: HSUPA UE category



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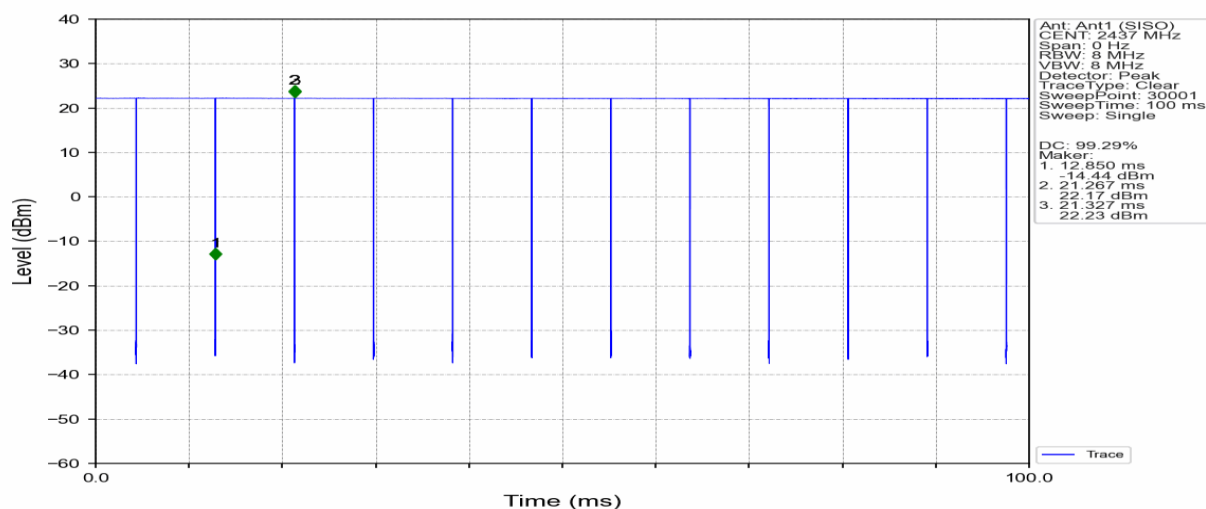
7.1.3 WIFI Test Configuration

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

7.1.3.1 Duty cycle

1) Wi-Fi 2.4GHz 802.11b:

Duty cycle=99.29%



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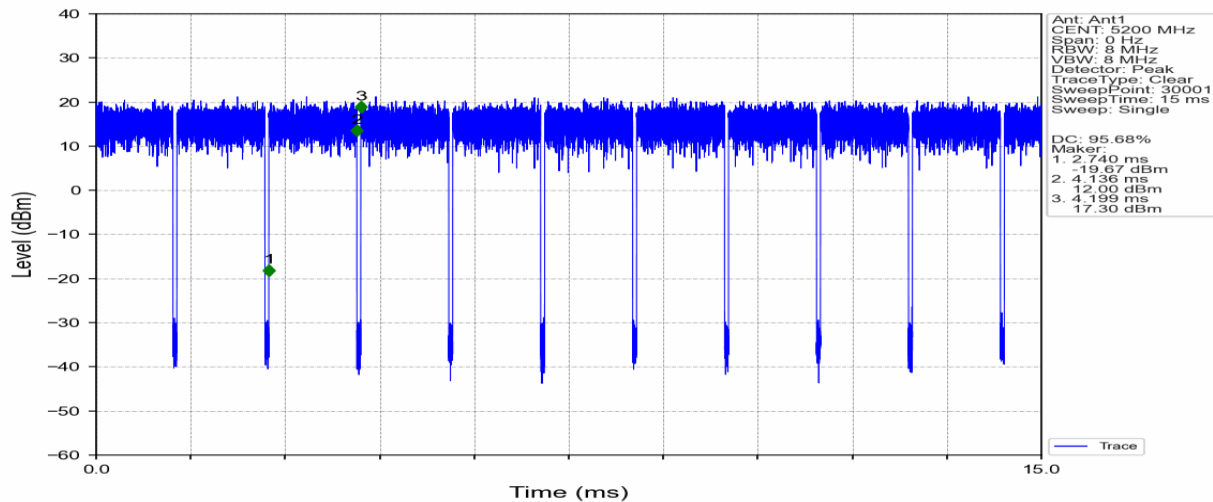
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2) Wi-Fi 5GHz 802.11ac VHT80:

Duty cycle=95.68%



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7.1.3.2 Initial Test Position SAR Test Reduction Procedure

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

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



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7.1.3.3 Subsequent Test Configuration Procedures

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

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



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7.1.3.4 2.4 GHz WiFi SAR Procedures

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

• 802.11b DSSS SAR Test Requirements

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

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

• 2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements

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

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

• SAR Test Requirements for OFDM configurations

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



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7.1.3.5 5 GHz WiFi SAR Procedures

- **U-NII-1 and U-NII-2A Bands**

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

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

- **U-NII-2C and U-NII-3 Bands**

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

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



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OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements

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

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

• SAR Test Requirements for OFDM configurations

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



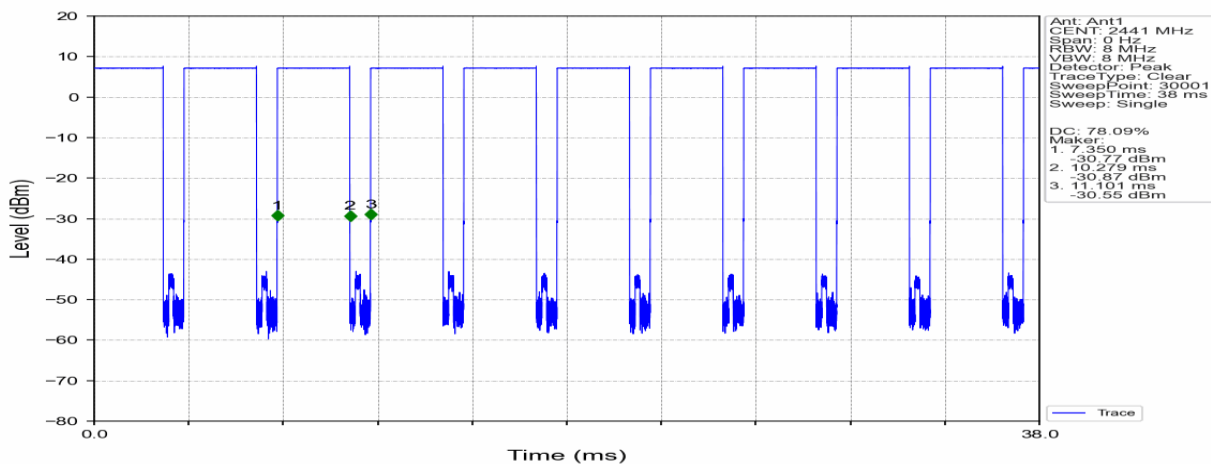
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7.1.4 BT Test Configuration

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

BT DH5 Duty Cycle=78.09%



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7.1.5 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The Radio Communication Analyzer was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

TDD LTE test consideration

For Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

SAR was tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7.

LTE TDD Band support 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

Frame structure type 2:

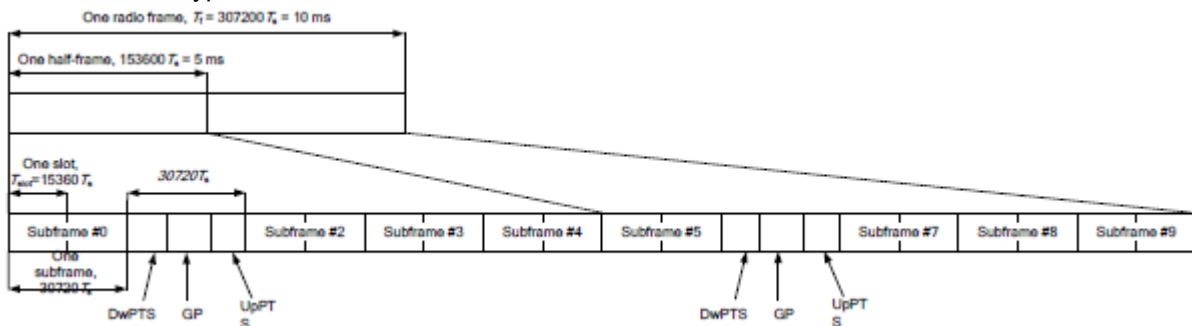


Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	6592.Ts	2192.Ts	2560.Ts	7680.Ts	2192.Ts	2560.Ts
1	19760.Ts			20480.Ts		
2	21952.Ts			23040.Ts		
3	24144.Ts			25600.Ts		
4	26336.Ts			7680.Ts	4384.Ts	5120.Ts
5	6592.Ts	4384.Ts	5120.Ts	20480.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 configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

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

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

A) Spectrum Plots for RB Configurations

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

B) MPR

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

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



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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 $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

E) Other channel bandwidth standalone SAR test requirements

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



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8 Test Result

8.1 DUT Antenna Locations (Back View)

The DUT Antenna Locations can be referred to Appendix D



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8.2 Measurement of RF Conducted Power

8.2.1 RF Conducted Power Data of GSM 850

GSM 850										
Burst Output Power(dBm)						Division Factors	Frame-Average Output Power(dBm)			
Channel		128	190	251	Tune up		128	190	251	Tune up
GSM(GMSK)	GSM	33.44	33.19	33.21	34.00	-9.19	24.25	24.00	24.02	24.81
GPRS (GMSK)	1 TX Slot	33.72	33.20	33.46	34.00	-9.19	24.53	24.01	24.27	24.81
	2 TX Slots	31.95	31.75	31.58	33.00	-6.18	25.77	25.57	25.40	26.82
	3 TX Slots	30.36	30.18	30.00	31.00	-4.42	25.94	25.76	25.58	26.58
	4 TX Slots	28.21	28.05	27.90	29.00	-3.17	25.04	24.88	24.73	25.83
EGPRS (8PSK)	1 TX Slot	28.63	28.89	28.06	29.00	-9.19	19.44	19.70	18.87	19.81
	2 TX Slots	27.65	27.89	27.17	28.00	-6.18	21.47	21.71	20.99	21.82
	3 TX Slots	25.06	25.35	25.46	26.00	-4.42	20.64	20.93	21.04	21.58
	4 TX Slots	23.22	23.56	22.85	24.00	-3.17	20.05	20.39	19.68	20.83



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8.2.2 RF Conducted Power Data of GSM 1900

GSM 1900										
Burst Output Power(dBm)						Division Factors	Frame-Average Output Power(dBm)			
Channel		512	661	810	Tune up		512	661	810	Tune up
GSM(GMSK)	GSM	30.51	30.21	30.32	31.00	-9.19	21.32	21.02	21.13	21.81
GPRS (GMSK)	1 TX Slot	30.54	30.23	30.36	31.00	-9.19	21.35	21.04	21.17	21.81
	2 TX Slots	29.25	28.85	28.81	30.00	-6.18	23.07	22.67	22.63	23.82
	3 TX Slots	27.62	27.19	27.15	28.00	-4.42	23.20	22.77	22.73	23.58
	4 TX Slots	25.58	25.11	25.05	26.00	-3.17	22.41	21.94	21.88	22.83
EGPRS (8PSK)	1 TX Slot	26.53	26.11	26.36	27.00	-9.19	17.34	16.92	17.17	17.81
	2 TX Slots	25.39	25.02	25.50	26.00	-6.18	19.21	18.84	19.32	19.82
	3 TX Slots	23.18	23.70	23.27	24.00	-4.42	18.76	19.28	18.85	19.58
	4 TX Slots	22.70	21.10	21.55	23.00	-3.17	19.53	17.93	18.38	19.83



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8.2.3 RF Conducted Power Data of WCDMA Band II

WCDMA Band II					
Average Conducted Power(dBm)					
Channel		9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	23.64	23.8	23.74	24.50
HSDPA	Subtest 1	23.02	22.60	22.93	23.50
	Subtest 2	23.00	22.55	22.92	23.50
	Subtest 3	23.01	22.57	22.93	23.50
	Subtest 4	23.00	22.52	22.93	23.50
HSUPA	Subtest 1	20.69	20.67	20.97	22.00
	Subtest 2	20.93	20.17	20.48	21.00
	Subtest 3	20.48	20.51	20.99	22.00
	Subtest 4	20.91	20.66	20.74	22.00
	Subtest 5	20.46	20.15	20.76	21.00



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8.2.4 RF Conducted Power Data of WCDMA Band IV

WCDMA Band IV					
Average Conducted Power(dBm)					
Channel		1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	23.36	23.43	23.28	24.00
HSDPA	Subtest 1	22.26	22.96	22.13	23.50
	Subtest 2	22.24	22.99	22.15	23.50
	Subtest 3	22.24	22.99	22.15	23.50
	Subtest 4	22.21	22.96	22.13	23.50
HSUPA	Subtest 1	20.17	20.34	19.75	21.00
	Subtest 2	20.18	20.5	20.21	21.00
	Subtest 3	20.33	20.50	20.00	21.00
	Subtest 4	20.32	20.80	20.00	21.00
	Subtest 5	20.09	20.33	19.74	21.00



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8.2.5 RF Conducted Power Data of WCDMA Band V

WCDMA Band V					
Average Conducted Power(dBm)					
Channel		4132	4182	4233	Tune up
WCDMA	12.2kbps RMC	23.49	23.60	23.51	24.50
HSDPA	Subtest 1	23.89	23.23	23.48	24.00
	Subtest 2	23.89	23.23	23.48	24.00
	Subtest 3	23.90	23.23	23.49	24.00
	Subtest 4	23.87	23.21	23.46	24.00
HSUPA	Subtest 1	21.66	21.14	21.39	22.00
	Subtest 2	22.04	21.12	21.42	22.50
	Subtest 3	22.06	21.13	21.42	22.50
	Subtest 4	22.05	20.85	21.42	22.50
	Subtest 5	22.08	21.12	21.42	22.50



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8.2.6 RF Conducted Power Data of LTE Band 2

LTE Band 2				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18607	18900	19193	
1.4MHz	QPSK	1	0	23.53	23.77	23.67	24.50
		1	2	23.61	23.46	23.64	24.50
		1	5	23.56	23.67	23.59	24.50
		3	0	23.38	23.50	23.42	24.50
		3	2	23.43	23.45	23.44	24.50
		3	3	23.40	23.57	23.36	24.50
		6	0	22.44	22.39	22.37	23.50
	16QAM	1	0	22.89	22.42	22.98	23.50
		1	2	22.87	22.52	22.45	23.50
		1	5	22.52	22.19	22.91	23.50
		3	0	22.90	22.63	22.61	23.50
		3	2	22.53	22.56	22.53	23.50
		3	3	22.68	22.48	22.72	23.50
		6	0	21.00	21.12	21.24	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18615	18900	19185	
3MHz	QPSK	1	0	23.81	23.71	23.67	24.50
		1	7	23.79	23.74	23.62	24.50
		1	14	23.85	23.68	23.43	24.50
		8	0	22.59	22.56	22.41	23.50
		8	4	23.05	22.49	22.35	23.50
		8	7	22.52	22.45	22.29	23.50
		15	0	22.54	22.45	22.33	23.50
	16QAM	1	0	22.95	22.17	23.04	23.50
		1	7	22.99	22.29	22.44	23.50
		1	14	22.92	21.92	22.29	23.50
		8	0	21.60	21.64	21.53	22.50
		8	4	21.73	21.84	21.52	22.50
		8	7	21.73	21.72	21.72	22.50
		15	0	21.63	21.42	21.70	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18625	18900	19175	
5MHz	QPSK	1	0	23.49	23.65	23.29	24.50
		1	13	23.85	23.93	23.52	24.50
		1	24	23.69	23.87	23.50	24.50



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		12	0	22.40	22.48	22.44	23.50
		12	6	22.45	22.51	22.40	23.50
		12	13	22.43	22.48	22.44	23.50
		25	0	22.57	22.48	22.38	23.50
	16QAM	1	0	23.07	22.77	23.02	23.50
		1	13	23.06	22.61	22.75	23.50
		1	24	22.93	22.78	22.85	23.50
		12	0	21.64	21.38	21.59	22.50
		12	6	21.53	21.62	21.59	22.50
		12	13	21.55	21.88	21.47	22.50
		25	0	21.75	21.30	21.67	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18650	18900	19150	
		1	0	23.78	23.60	23.78	24.50
		1	25	23.76	23.67	23.69	24.50
		1	49	23.61	23.71	23.44	24.50
		25	0	22.46	22.36	22.38	23.50
		25	13	22.45	22.47	22.48	23.50
		25	25	22.39	22.42	22.34	23.50
		50	0	22.42	22.53	22.52	23.50
10MHz	QPSK	1	0	22.47	22.30	23.03	23.50
		1	25	23.05	22.46	22.96	23.50
		1	49	22.62	22.62	22.88	23.50
		25	0	21.79	21.47	21.84	22.50
		25	13	21.68	21.67	21.57	22.50
		25	25	21.76	21.74	21.63	22.50
		50	0	21.11	21.51	21.53	22.50
	16QAM	1	0	22.47	22.30	23.03	23.50
		1	25	23.05	22.46	22.96	23.50
		1	49	22.62	22.62	22.88	23.50
		25	0	21.79	21.47	21.84	22.50
		25	13	21.68	21.67	21.57	22.50
		25	25	21.76	21.74	21.63	22.50
		50	0	21.11	21.51	21.53	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18675	18900	19125	
		1	0	23.51	23.77	23.63	24.50
		1	38	23.56	23.68	23.68	24.50
		1	74	23.59	23.67	23.83	24.50
		36	0	22.55	22.51	22.49	23.50
		36	18	22.46	22.39	22.49	23.50
		36	39	22.45	22.48	22.37	23.50
		75	0	22.37	22.48	22.42	23.50
15MHz	QPSK	1	0	22.40	22.36	22.97	23.50
		1	38	22.51	22.56	22.99	23.50
		1	74	22.39	22.90	23.03	23.50
		36	0	21.55	21.55	21.44	22.50
	16QAM	1	0	22.40	22.36	22.97	23.50
		1	38	22.51	22.56	22.99	23.50
		1	74	22.39	22.90	23.03	23.50
		36	0	21.55	21.55	21.44	22.50



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		36	18	21.66	21.48	21.56	22.50
		36	39	21.57	21.59	21.55	22.50
		75	0	21.58	21.46	21.53	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18700	18900	19100	
20MHz	QPSK	1	0	23.82	23.58	23.29	24.50
		1	50	23.83	23.87	23.49	24.50
		1	99	23.80	23.75	23.47	24.50
		50	0	22.46	22.38	22.18	23.50
		50	25	22.48	22.54	22.46	23.50
		50	50	22.47	22.38	22.45	23.50
		100	0	22.38	22.55	22.31	23.50
	16QAM	1	0	23.05	22.46	22.96	23.50
		1	50	21.52	22.52	22.90	23.50
		1	99	22.96	22.47	22.70	23.50
		50	0	21.54	21.63	21.74	22.50
		50	25	21.93	21.51	21.48	22.50
		50	50	21.58	21.84	21.50	22.50
		100	0	22.00	21.46	21.46	22.50



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8.2.7 RF Conducted Power Data of LTE Band 4

LTE Band 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19957	20175	20393	
1.4MHz	QPSK	1	0	24.08	23.60	23.45	24.50
		1	2	24.07	23.73	23.28	24.50
		1	5	24.06	23.76	23.38	24.50
		3	0	23.78	23.44	23.47	24.50
		3	2	23.81	23.55	23.13	24.50
		3	3	23.75	23.48	23.10	24.50
		6	0	22.72	22.49	22.45	23.50
	16QAM	1	0	23.07	23.00	22.52	23.50
		1	2	22.89	23.09	22.57	23.50
		1	5	23.21	22.77	22.63	23.50
		3	0	23.09	22.53	23.10	23.50
		3	2	22.97	22.70	22.91	23.50
		3	3	23.08	22.80	22.58	23.50
		6	0	21.85	21.39	21.21	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19965	20175	20385	
3MHz	QPSK	1	0	24.19	23.81	23.50	24.50
		1	7	23.92	23.70	23.34	24.50
		1	14	24.15	23.78	23.35	24.50
		8	0	22.83	22.60	22.54	23.50
		8	4	22.91	22.49	22.56	23.50
		8	7	22.76	22.53	22.53	23.50
		15	0	22.78	22.58	22.40	23.50
	16QAM	1	0	23.45	23.07	22.59	23.50
		1	7	23.44	22.40	22.70	23.50
		1	14	23.30	23.07	22.71	23.50
		8	0	21.95	21.57	21.69	22.50
		8	4	22.04	21.52	21.61	22.50
		8	7	21.97	21.61	21.63	22.50
		15	0	21.94	21.53	21.62	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19975	20175	20375	
5MHz	QPSK	1	0	24.10	23.53	23.63	24.50
		1	13	24.13	23.54	23.33	24.50
		1	24	23.99	23.50	23.35	24.50



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		12	0	22.88	22.45	22.39	23.50
		12	6	22.74	22.56	22.33	23.50
		12	13	22.64	22.53	22.49	23.50
		25	0	22.69	22.51	22.47	23.50
	16QAM	1	0	23.28	23.01	22.97	23.50
		1	13	23.19	22.95	23.01	23.50
		1	24	22.94	22.97	22.60	23.50
		12	0	21.97	21.64	21.61	22.50
		12	6	21.88	21.51	21.57	22.50
		12	13	21.91	21.62	21.55	22.50
		25	0	21.96	21.56	21.40	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20000	20175	20350	
10MHz	QPSK	1	0	23.84	23.46	23.61	24.50
		1	25	23.93	23.55	23.53	24.50
		1	49	23.93	23.47	23.48	24.50
		25	0	22.56	22.47	22.37	23.50
		25	13	22.67	22.56	22.57	23.50
		25	25	22.66	22.32	22.38	23.50
		50	0	22.56	22.47	22.47	23.50
	16QAM	1	0	23.28	22.49	22.42	23.50
		1	25	22.35	22.11	23.14	23.50
		1	49	22.94	22.50	22.53	23.50
		25	0	21.94	21.78	21.59	22.50
		25	13	22.20	21.72	21.64	22.50
		25	25	22.15	21.48	21.70	22.50
		50	0	22.00	21.54	21.49	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20025	20175	20325	
15MHz	QPSK	1	0	23.71	23.57	23.62	24.50
		1	38	23.56	23.49	23.32	24.50
		1	74	23.25	23.73	23.45	24.50
		36	0	22.59	22.52	22.39	23.50
		36	18	22.56	22.59	22.47	23.50
		36	39	22.52	22.41	22.50	23.50
		75	0	22.14	22.49	22.36	23.50
	16QAM	1	0	22.80	22.98	22.96	23.50
		1	38	22.65	22.55	22.59	23.50
		1	74	22.59	22.45	22.78	23.50
		36	0	22.16	21.58	21.54	22.50



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		36	18	22.18	21.49	21.50	22.50
		36	39	21.67	21.62	21.42	22.50
		75	0	21.93	21.63	21.63	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20050	20175	20300	
20MHz	QPSK	1	0	23.60	23.54	23.52	24.50
		1	50	23.84	23.89	23.57	24.50
		1	99	23.81	23.57	23.46	24.50
		50	0	22.31	22.52	22.30	23.50
		50	25	22.54	22.57	22.55	23.50
		50	50	22.51	22.47	22.52	23.50
		100	0	22.54	22.50	22.56	23.50
	16QAM	1	0	23.24	23.19	23.07	23.50
		1	50	23.05	22.92	23.00	23.50
		1	99	23.30	22.97	22.93	23.50
		50	0	21.96	21.48	21.95	22.50
		50	25	21.61	21.48	21.45	22.50
		50	50	21.74	21.58	21.56	22.50
		100	0	21.26	21.59	21.59	22.50



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8.2.8 RF Conducted Power Data of LTE Band 5

LTE Band 5				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20407	20525	20643	
1.4MHz	QPSK	1	0	23.74	23.57	23.50	24.50
		1	2	23.67	23.49	23.44	24.50
		1	5	23.65	23.47	23.52	24.50
		3	0	23.47	23.63	23.60	24.50
		3	2	23.52	23.20	23.80	24.50
		3	3	23.46	23.50	23.76	24.50
		6	0	22.43	22.47	22.64	23.50
	16QAM	1	0	22.79	22.84	22.88	23.50
		1	2	22.94	22.95	23.01	23.50
		1	5	22.73	22.82	22.82	23.50
		3	0	22.65	22.88	22.74	23.50
		3	2	22.79	22.88	22.73	23.50
		3	3	22.67	22.86	22.65	23.50
		6	0	21.92	21.19	21.72	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20415	20525	20635	
3MHz	QPSK	1	0	23.61	23.73	23.45	24.50
		1	7	23.66	23.74	23.51	24.50
		1	14	24.06	23.72	23.51	24.50
		8	0	22.48	22.52	22.53	23.50
		8	4	22.52	22.60	22.53	23.50
		8	7	22.78	22.56	22.58	23.50
		15	0	22.49	22.54	22.63	23.50
	16QAM	1	0	21.65	22.42	22.56	23.50
		1	7	21.75	22.82	22.31	23.50
		1	14	22.78	22.87	22.74	23.50
		8	0	21.92	21.45	21.85	22.50
		8	4	21.96	21.67	21.70	22.50
		8	7	21.90	21.56	22.16	22.50
		15	0	21.88	21.56	21.76	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20425	20525	20625	
5MHz	QPSK	1	0	23.76	23.50	23.62	24.50
		1	13	24.05	23.60	23.53	24.50
		1	24	23.68	23.55	23.69	24.50



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		12	0	22.41	22.36	22.60	23.50
		12	6	22.85	22.47	22.67	23.50
		12	13	22.82	22.46	22.51	23.50
		25	0	22.88	22.50	22.65	23.50
	16QAM	1	0	22.87	22.85	23.02	23.50
		1	13	23.24	22.81	22.96	23.50
		1	24	22.97	23.06	22.87	23.50
		12	0	21.95	21.63	22.06	22.50
		12	6	21.79	21.66	21.60	22.50
		12	13	21.86	21.57	21.61	22.50
		25	0	21.75	21.68	21.77	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20435	20525	20615	
10MHz	QPSK	1	0	23.79	23.88	23.61	24.50
		1	25	23.73	23.87	23.58	24.50
		1	49	23.80	23.85	23.50	24.50
		25	0	22.44	22.59	22.67	23.50
		25	13	22.47	22.61	22.49	23.50
		25	25	22.49	22.78	22.54	23.50
		50	0	22.60	22.55	22.53	23.50
	16QAM	1	0	22.31	23.15	23.08	23.50
		1	25	23.02	22.30	23.08	23.50
		1	49	22.85	23.03	23.13	23.50
		25	0	21.79	21.52	21.92	22.50
		25	13	21.72	21.62	21.75	22.50
		25	25	21.49	21.48	21.79	22.50
		50	0	21.65	21.58	21.67	22.50



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8.2.9 RF Conducted Power Data of LTE Band 7

LTE Band 7				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20775	21100	21425	
5MHz	QPSK	1	0	23.60	23.61	23.58	24.00
		1	13	23.33	23.67	23.46	24.00
		1	24	23.33	23.34	23.59	24.00
		12	0	22.28	22.47	21.98	23.00
		12	6	22.26	22.49	22.41	23.00
		12	13	22.36	22.50	22.24	23.00
		25	0	22.28	22.33	22.34	23.00
	16QAM	1	0	22.94	22.96	22.90	23.00
		1	13	22.33	22.17	22.97	23.00
		1	24	22.41	22.86	22.90	23.00
		12	0	21.41	21.73	21.67	22.00
		12	6	21.47	21.62	21.49	22.00
		12	13	21.45	21.52	21.39	22.00
		25	0	21.56	21.62	21.66	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20800	21100	21400	
10MHz	QPSK	1	0	23.59	23.35	23.65	24.00
		1	25	23.31	23.54	23.23	24.00
		1	49	23.25	23.48	23.52	24.00
		25	0	22.37	22.36	22.43	23.00
		25	13	22.25	22.40	22.27	23.00
		25	25	22.25	22.20	22.41	23.00
		50	0	22.28	22.40	22.32	23.00
	16QAM	1	0	22.98	22.74	22.64	23.00
		1	25	22.11	22.49	22.36	23.00
		1	49	22.45	22.27	22.34	23.00
		25	0	21.71	21.65	21.76	22.00
		25	13	21.51	21.39	21.42	22.00
		25	25	21.57	21.54	21.49	22.00
		50	0	21.45	21.53	21.53	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20825	21100	21375	
15MHz	QPSK	1	0	23.54	23.46	23.78	24.00
		1	38	23.30	23.56	23.64	24.00
		1	74	23.55	23.41	23.59	24.00



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		36	0	22.24	22.38	22.37	23.00
		36	18	22.34	22.31	22.35	23.00
		36	39	22.31	22.45	22.40	23.00
		75	0	22.24	22.43	22.51	23.00
	16QAM	1	0	22.55	22.33	22.86	23.00
		1	38	22.71	22.58	22.36	23.00
		1	74	22.86	22.72	22.88	23.00
		36	0	21.30	21.58	21.56	22.00
		36	18	21.27	21.37	21.59	22.00
		36	39	21.26	21.43	21.59	22.00
		75	0	21.30	21.37	21.50	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20850	21100	21350	
20MHz	QPSK	1	0	23.46	23.52	22.81	24.00
		1	50	23.64	23.71	23.47	24.00
		1	99	22.54	23.51	23.18	24.00
		50	0	22.31	22.33	22.39	23.00
		50	25	22.32	22.44	22.41	23.00
		50	50	21.98	22.43	22.38	23.00
		100	0	22.44	22.43	22.36	23.00
	16QAM	1	0	22.27	22.72	22.77	23.00
		1	50	22.05	22.83	22.75	23.00
		1	99	22.96	22.71	22.74	23.00
		50	0	21.41	21.36	21.50	22.00
		50	25	21.44	21.59	21.50	22.00
		50	50	21.29	21.48	21.43	22.00
		100	0	21.24	21.51	21.60	22.00



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8.2.10 RF Conducted Power Data of LTE Band 38

LTE Band 38				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37775	38000	38225	
5MHz	QPSK	1	0	23.17	23.65	22.98	24.00
		1	13	23.15	23.53	22.88	24.00
		1	24	22.91	23.43	22.87	24.00
		12	0	22.02	22.14	21.97	23.00
		12	6	22.06	22.09	21.92	23.00
		12	13	22.09	22.11	21.95	23.00
		25	0	22.06	22.07	21.96	23.00
	16QAM	1	0	22.02	22.26	21.81	23.00
		1	13	22.00	21.97	21.88	23.00
		1	24	21.93	22.02	21.82	23.00
		12	0	21.16	21.36	21.01	22.00
		12	6	21.20	21.20	21.15	22.00
		12	13	21.25	21.16	21.15	22.00
		25	0	21.46	21.52	21.36	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37800	38000	38200	
10MHz	QPSK	1	0	23.25	23.58	23.07	24.00
		1	25	23.14	23.50	22.96	24.00
		1	49	23.21	22.95	22.90	24.00
		25	0	22.22	22.24	21.99	23.00
		25	13	22.07	22.13	21.96	23.00
		25	25	21.99	22.12	21.93	23.00
		50	0	22.13	22.03	21.97	23.00
	16QAM	1	0	21.75	22.08	21.55	23.00
		1	25	21.66	22.01	21.39	23.00
		1	49	22.08	21.87	21.90	23.00
		25	0	21.11	21.25	21.43	22.00
		25	13	21.37	21.16	21.39	22.00
		25	25	21.07	21.14	20.63	22.00
		50	0	21.21	21.23	21.16	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37825	38000	38175	
15MHz	QPSK	1	0	23.24	23.67	22.97	24.00
		1	38	23.19	23.46	23.13	24.00
		1	74	22.96	23.36	23.05	24.00



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		36	0	22.13	22.13	21.96	23.00
		36	18	22.03	22.13	22.06	23.00
		36	39	22.04	21.97	21.92	23.00
		75	0	22.08	21.59	22.00	23.00
	16QAM	1	0	22.00	22.20	21.51	23.00
		1	38	21.72	22.01	21.34	23.00
		1	74	21.70	21.89	21.43	23.00
		36	0	21.28	21.25	21.17	22.00
		36	18	21.25	21.33	21.17	22.00
		36	39	21.24	21.26	21.16	22.00
		75	0	20.75	21.19	21.25	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37850	38000	38150	
20MHz	QPSK	1	0	23.25	23.26	23.31	24.00
		1	50	23.30	23.55	23.35	24.00
		1	99	23.12	23.12	23.33	24.00
		50	0	22.06	22.18	22.01	23.00
		50	25	22.07	22.23	22.03	23.00
		50	50	21.94	21.96	21.94	23.00
		100	0	22.16	22.15	21.98	23.00
	16QAM	1	0	22.09	22.17	22.07	23.00
		1	50	21.66	21.89	21.86	23.00
		1	99	21.60	21.77	21.80	23.00
		50	0	21.24	21.33	21.21	22.00
		50	25	21.22	20.22	21.17	22.00
		50	50	21.25	21.14	21.09	22.00
		100	0	21.22	21.30	21.23	22.00



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8.2.11 RF Conducted Power Data of WIFI 2.4G

WIFI 2.4G Ant					
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11b	1	2412	1	15.18	16.00
	6	2437		17.16	18.00
	11	2462		13.63	15.00
802.11g	1	2412	6	14.74	15.00
	6	2437		15.57	16.50
	11	2462		9.17	10.00
802.11n HT20	1	2412	6.5	15.05	16.00
	6	2437		15.80	16.50
	11	2462		9.47	10.00
802.11n HT40	3	2422	13.5	15.09	16.00
	6	2437		15.75	16.50
	9	2452		9.94	11.00



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8.2.12 RF Conducted Power Data of WIFI 5G

WIFI 5G Ant					
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz U-NII-1	802.11a	36	5180	11.04	12.00
		40	5200	15.06	16.00
		44	5220	14.69	16.00
		48	5240	11.02	12.00
	802.11n HT20	36	5180	14.84	16.00
		40	5200	15.44	16.00
		44	5220	14.76	16.00
		48	5240	14.84	16.00
	802.11n HT40	38	5190	12.18	13.00
		46	5230	12.43	13.00
	802.11ac VHT20	36	5180	15.05	16.00
		40	5200	15.51	16.00
		44	5220	14.92	16.00
		48	5240	14.86	16.00
	802.11ac VHT40	38	5190	12.16	13.00
		46	5230	12.54	13.00
	802.11ac VHT80	42	5210	11.05	12.00
5GHz U-NII-2A	802.11a	52	5260	15.16	16.00
		56	5280	15.14	16.00
		60	5300	14.92	16.00
		64	5320	14.88	16.00
	802.11n HT20	52	5260	15.54	16.00
		56	5280	15.46	16.00
		60	5300	15.16	16.00
		64	5320	15.22	16.00
	802.11n HT40	54	5270	13.89	14.00
		62	5310	13.92	14.00
	802.11ac VHT20	52	5260	15.52	16.00
		56	5280	15.41	16.00
		60	5300	15.24	16.00
		64	5320	15.20	16.00
	802.11ac VHT40	54	5270	13.96	15.00
		62	5310	13.90	15.00
	802.11ac VHT80	58	5290	11.96	13.00
5GHz UNII-2C	802.11a	100	5500	13.61	14.00
		104	5520	15.34	16.00



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		108	5540	15.44	16.00
		112	5560	15.05	16.00
		116	5580	15.14	16.00
		120	5600	15.32	16.00
		124	5620	15.08	16.00
		128	5640	15.08	16.00
		132	5660	15.34	16.00
		136	5680	15.16	16.00
		140	5700	6.51	8.00
		144	5720	6.68	8.00
	802.11n HT20	100	5500	10.27	12.00
		104	5520	15.32	16.00
		108	5540	15.31	16.00
		112	5560	15.71	16.00
		116	5580	15.41	16.00
		120	5600	15.69	16.00
		124	5620	15.43	16.00
		128	5640	15.36	16.00
		132	5660	15.54	16.00
		136	5680	15.35	16.00
		140	5700	6.87	8.00
		144	5720	7.09	8.00
	802.11n HT40	102	5510	9.31	10.00
		110	5550	14.88	16.00
		118	5590	14.17	16.00
		126	5630	14.16	16.00
		134	5670	14.12	16.00
		142	5710	14.18	16.00
	802.11ac VHT20	100	5500	10.13	11.00
		104	5520	15.23	16.00
		108	5540	15.51	16.00
		112	5560	15.29	16.00
		116	5580	15.32	16.00
		120	5600	15.47	16.00
		124	5620	15.52	16.00
		128	5640	15.56	16.00
		132	5660	15.25	16.00
		136	5680	15.39	16.00
		140	5700	6.81	8.00
		144	5720	7.03	8.00
	802.11ac VHT40	102	5510	8.92	10.00
		110	5550	14.86	16.00



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		118	5590	14.16	16.00
		126	5630	14.18	16.00
		134	5670	14.11	16.00
		142	5710	14.19	16.00
	802.11ac VHT80	106	5530	11.22	12.00
		122	5610	15.24	16.00
		138	5690	15.19	16.00
	802.11a	149	5745	15.95	17.00
		153	5765	15.64	17.00
		157	5785	16.65	17.00
		161	5805	15.57	17.00
		165	5825	15.59	17.00
5GHz UNII-3	802.11n HT20	149	5745	15.33	17.00
		153	5765	15.38	17.00
		157	5785	16.80	17.00
		161	5805	16.09	17.00
		165	5825	15.87	17.00
	802.11n HT40	151	5755	15.60	17.00
		159	5795	16.42	17.00
	802.11ac VHT20	149	5745	15.22	17.00
		153	5765	15.31	17.00
		157	5785	16.70	17.00
		161	5805	15.54	17.00
		165	5825	15.76	17.00
	802.11ac VHT40	151	5755	15.56	17.00
		159	5795	16.42	17.00
	802.11ac VHT80	155	5775	16.38	17.00



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8.2.13 RF Conducted Power Data of BT

BT		Average Conducted Power(dBm)			Tune up
Band	Mode	0	39	78	
BT	GFSK	7.42	7.19	7.80	8.00
	$\pi/4$ DQPSK	6.90	7.10	7.30	8.00
	8DPSK	7.22	7.44	7.57	8.00
Band	Mode	0	19	39	Tune up
BLE 1M	GFSK	0.42	0.67	1.02	2.00
Band	Mode	1	19	38	Tune up
BLE 2M	GFSK	0.43	0.69	1.11	2.00



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8.3 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.
- 3) For WiFi SAR test, as the highest reported SAR is smaller than 1.2 W/kg , and the tune-up of the other 802.11 modes are not higher than SAR measurement mode, therefore the adjusted SAR is $\leq 1.2\text{ W/kg}$ for other 802.11 modes, SAR test for the other 802.11 modes are not required. For Product specific 10gSAR the highest reported SAR is smaller than 3.0 W/kg , SAR test for the other 802.11 modes are also not required.
- 4) NFC can't transmit with other radio function simultaneously.



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8.3.1 SAR Result of GSM850

Ant 0 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Extremity Test data(Separate 0mm)											
Front side	GPRS 2TS	128/824.2	1:4.0	0.390	0.213	0.10	31.95	33.00	1.274	0.271	22.3
Back side	GPRS 2TS	128/824.2	1:4.0	0.168	0.113	0.14	31.95	33.00	1.274	0.144	22.3
Left side	GPRS 2TS	128/824.2	1:4.0	0.081	0.041	-0.14	31.95	33.00	1.274	0.052	22.3
Right side	GPRS 2TS	128/824.2	1:4.0	1.460	0.835	-0.03	31.95	33.00	1.274	1.064	22.3
Right side with Battery2#	GPRS 2TS	128/824.2	1:4.0	1.440	0.831	-0.13	31.95	33.00	1.274	1.059	22.3
Top side	GPRS 2TS	128/824.2	1:4.0	0.310	0.153	-0.11	31.95	33.00	1.274	0.195	22.3
Bottom side	GPRS 2TS	128/824.2	1:4.0	0.073	0.026	0.10	31.95	33.00	1.274	0.033	22.3



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8.3.2 SAR Result of GSM1900

Ant 0 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Extremity Test data(Separate 0mm)											
Front side	GPRS 2TS	512/1850.2	1:4.0	0.431	0.226	0.05	29.25	30.00	1.189	0.269	22.3
Back side	GPRS 2TS	512/1850.2	1:4.0	0.195	0.120	-0.09	29.25	30.00	1.189	0.143	22.3
Left side	GPRS 2TS	512/1850.2	1:4.0	0.522	0.277	-0.19	29.25	30.00	1.189	0.329	22.3
Right side	GPRS 2TS	512/1850.2	1:4.0	2.380	1.180	-0.14	29.25	30.00	1.189	1.403	22.3
Right side with Battery2#	GPRS 2TS	512/1850.2	1:4.0	2.320	1.120	-0.10	29.25	30.00	1.189	1.332	22.3
Top side	GPRS 2TS	512/1850.2	1:4.0	0.105	0.061	0.13	29.25	30.00	1.189	0.073	22.3
Bottom side	GPRS 2TS	512/1850.2	1:4.0	0.047	0.025	-0.06	29.25	30.00	1.189	0.030	22.3



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8.3.3 SAR Result of WCDMA Band II

Ant 0 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Extremity Test data(Separate 0mm)											
Front side	RMC	9400/1880	1:1	0.781	0.406	0.11	23.80	24.50	1.175	0.477	22.3
Back side	RMC	9400/1880	1:1	0.374	0.230	-0.03	23.80	24.50	1.175	0.270	22.3
Left side	RMC	9400/1880	1:1	0.774	0.408	0.15	23.80	24.50	1.175	0.479	22.3
Right side	RMC	9400/1880	1:1	4.080	2.080	-0.02	23.80	24.50	1.175	2.444	22.3
Top side	RMC	9400/1880	1:1	0.389	0.198	0.01	23.80	24.50	1.175	0.233	22.3
Bottom side	RMC	9400/1880	1:1	0.064	0.036	-0.02	23.80	24.50	1.175	0.042	22.3
Right side	RMC	9262/1852.4	1:1	4.580	2.290	-0.08	23.64	24.50	1.219	2.792	22.3
Right side with Battery2#	RMC	9262/1852.4	1:1	4.520	2.220	-0.03	23.64	24.50	1.219	2.706	22.3
Right side with Repeated	RMC	9262/1852.4	1:1	4.510	2.210	0.06	23.64	24.50	1.219	2.694	22.3
Right side	RMC	9538/1907.6	1:1	4.180	2.030	-0.15	23.74	24.50	1.191	2.418	22.3

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right side 0mm	9262/1852.4	2.290	2.210	1.036	N/A	N/A

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

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

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

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

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



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8.3.4 SAR Result of WCDMA Band IV

Ant 0 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Extremity Test data(Separate 0mm)											
Front side	RMC	1412/1732.4	1:1	1.038	0.531	-0.12	23.43	24.00	1.140	0.605	22.3
Back side	RMC	1412/1732.4	1:1	0.380	0.231	0.13	23.43	24.00	1.140	0.263	22.3
Left side	RMC	1412/1732.4	1:1	0.625	0.319	0.14	23.43	24.00	1.140	0.364	22.3
Right side	RMC	1412/1732.4	1:1	4.580	2.210	0.04	23.43	24.00	1.140	2.519	22.3
Top side	RMC	1412/1732.4	1:1	0.251	0.144	0.15	23.43	24.00	1.140	0.164	22.3
Bottom side	RMC	1412/1732.4	1:1	0.089	0.041	-0.14	23.43	24.00	1.140	0.047	22.3
Right side	RMC	1312/1712.4	1:1	4.301	2.110	0.01	23.36	24.00	1.159	2.445	22.3
Right side	RMC	1513/1752.6	1:1	4.520	2.260	-0.05	23.28	24.00	1.180	2.667	22.3
Right side with Battery2#	RMC	1513/1752.6	1:1	4.430	2.230	-0.09	23.28	24.00	1.180	2.631	22.3
Right side with Repeated	RMC	1513/1752.6	1:1	4.420	2.220	0.01	23.28	24.00	1.180	2.620	22.3

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right side 0mm	1513/1752.6	2.260	2.220	1.018	N/A	N/A

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

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

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

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

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



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8.3.5 SAR Result of WCDMA V

Ant 0 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Extremity Test data(Separate 0mm)											
Front side	RMC	4182/836.4	1:1	0.390	0.211	0.11	23.60	24.50	1.230	0.260	22.3
Back side	RMC	4182/836.4	1:1	0.171	0.116	-0.14	23.60	24.50	1.230	0.143	22.3
Left side	RMC	4182/836.4	1:1	0.077	0.041	0.10	23.60	24.50	1.230	0.050	22.3
Right side	RMC	4182/836.4	1:1	1.180	0.677	-0.16	23.60	24.50	1.230	0.833	22.3
Right side with Battery2#	RMC	4182/836.4	1:1	1.150	0.654	-0.12	23.60	24.50	1.230	0.804	22.3
Top side	RMC	4182/836.4	1:1	0.231	0.135	0.06	23.60	24.50	1.230	0.166	22.3
Bottom side	RMC	4182/836.4	1:1	0.079	0.032	-0.12	23.60	24.50	1.230	0.039	22.3



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8.3.6 SAR Result of LTE Band 2

Ant 0 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Extremity Test data (Separate 0mm 1RB)												
Front side	20	QPSK 1_50	18900/1880	1:1	0.857	0.440	0.02	23.87	24.50	1.156	0.509	22.3
Back side	20	QPSK 1_50	18900/1880	1:1	0.414	0.254	-0.09	23.87	24.50	1.156	0.294	22.3
Left side	20	QPSK 1_50	18900/1880	1:1	0.854	0.451	0.00	23.87	24.50	1.156	0.521	22.3
Right side	20	QPSK 1_50	18900/1880	1:1	4.180	2.090	-0.08	23.87	24.50	1.156	2.416	22.3
Right side with Battery2#	20	QPSK 1_50	18900/1880	1:1	4.120	2.020	-0.08	23.87	24.50	1.156	2.335	22.3
Right side with Repeated	20	QPSK 1_50	18900/1880	1:1	4.110	2.010	-0.11	23.87	24.50	1.156	2.324	22.3
Top side	20	QPSK 1_50	18900/1880	1:1	0.262	0.147	-0.04	23.87	24.50	1.156	0.170	22.3
Bottom side	20	QPSK 1_50	18900/1880	1:1	0.073	0.037	0.08	23.87	24.50	1.156	0.043	22.3
Right side	20	QPSK 1_50	18700/1860	1:1	3.640	1.690	0.16	23.83	24.50	1.167	1.972	22.3
Right side	20	QPSK 1_50	19100/1900	1:1	3.660	1.820	-0.15	23.49	24.50	1.262	2.297	22.3
Extremity Test data (Separate 0mm 50%RB)												
Front side	20	QPSK 50_25	18900/1880	1:1	0.631	0.333	-0.13	22.54	23.50	1.247	0.415	22.3
Back side	20	QPSK 50_25	18900/1880	1:1	0.276	0.162	0.12	22.54	23.50	1.247	0.202	22.3
Left side	20	QPSK 50_25	18900/1880	1:1	0.738	0.380	0.17	22.54	23.50	1.247	0.474	22.3
Right side	20	QPSK 50_25	18900/1880	1:1	3.590	1.770	0.10	22.54	23.50	1.247	2.207	22.3
Top side	20	QPSK 50_25	18900/1880	1:1	0.152	0.071	-0.10	22.54	23.50	1.247	0.089	22.3
Bottom side	20	QPSK 50_25	18900/1880	1:1	0.050	0.024	0.09	22.54	23.50	1.247	0.030	22.3
Right side	20	QPSK 50_25	18700/1860	1:1	3.640	1.840	0.12	22.48	23.50	1.265	2.328	22.3
Right side	20	QPSK 50_25	19100/1900	1:1	3.680	1.830	0.09	22.46	23.50	1.271	2.326	22.3
Extremity Test data (Separate 0mm 100%RB)												
Right side	20	QPSK 100_0	18900/1880	1:1	3.450	1.720	0.13	22.55	23.50	1.245	2.141	22.3

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right side 0mm	18900/1880	2.090	2.010	1.040	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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8.3.7 SAR Result of LTE Band 4

Ant 0 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Extremity Test data (Separate 0mm 1RB)												
Front side	20	QPSK 1 50	20175/1732.5	1:1	1.044	0.524	-0.04	23.89	24.50	1.151	0.603	22.3
Back side	20	QPSK 1 50	20175/1732.5	1:1	0.385	0.238	0.18	23.89	24.50	1.151	0.274	22.3
Left side	20	QPSK 1 50	20175/1732.5	1:1	0.617	0.327	0.05	23.89	24.50	1.151	0.376	22.3
Right side	20	QPSK 1 50	20175/1732.5	1:1	3.780	1.960	0.14	23.89	24.50	1.151	2.256	22.3
Top side	20	QPSK 1 50	20175/1732.5	1:1	0.271	0.148	-0.05	23.89	24.50	1.151	0.170	22.3
Bottom side	20	QPSK 1 50	20175/1732.5	1:1	0.086	0.042	-0.01	23.89	24.50	1.151	0.048	22.3
Right side	20	QPSK 1 50	20300/1745	1:1	4.670	2.330	-0.04	23.84	24.50	1.164	2.712	22.3
Right side with Battery2#	20	QPSK 1 50	20300/1745	1:1	4.650	2.320	-0.03	23.84	24.50	1.164	2.700	22.3
Right side with Repeated	20	QPSK 1 50	20300/1745	1:1	4.620	2.290	0.17	23.84	24.50	1.164	2.666	22.3
Right side	20	QPSK 1 50	20050/1720	1:1	4.240	2.160	-0.12	23.57	24.50	1.239	2.676	22.3
Extremity Test data (Separate 0mm 50%RB)												
Front side	20	QPSK 50 25	20175/1732.5	1:1	0.950	0.481	0.09	22.57	23.50	1.239	0.596	22.3
Back side	20	QPSK 50 25	20175/1732.5	1:1	0.311	0.179	0.03	22.57	23.50	1.239	0.222	22.3
Left side	20	QPSK 50 25	20175/1732.5	1:1	0.569	0.281	0.02	22.57	23.50	1.239	0.348	22.3
Right side	20	QPSK 50 25	20175/1732.5	1:1	4.480	2.120	0.17	22.57	23.50	1.239	2.627	22.3
Top side	20	QPSK 50 25	20175/1732.5	1:1	0.229	0.129	0.08	22.57	23.50	1.239	0.160	22.3
Bottom side	20	QPSK 50 25	20175/1732.5	1:1	0.068	0.029	-0.15	22.57	23.50	1.239	0.036	22.3
Right side	20	QPSK 50 25	20300/1745	1:1	3.930	1.640	-0.04	22.54	23.50	1.247	2.045	22.3
Right side	20	QPSK 50 25	20050/1720	1:1	3.830	1.512	0.16	22.55	23.50	1.245	1.882	22.3
Extremity Test data (Separate 0mm 100%RB)												
Right side	20	QPSK 50 50	20300/1745	1:1	3.880	1.960	-0.13	22.56	23.50	1.242	2.434	22.3

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right side 0mm	20300/1745	2.330	2.290	1.017	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
 5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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8.3.8 SAR Result of LTE Band 5

Ant 0 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Extremity Test data (Separate 0mm 1RB)												
Front side	10	QPSK 1_0	20525/836.5	1:1	0.371	0.204	-0.12	23.88	24.50	1.153	0.235	22.3
Back side	10	QPSK 1_0	20525/836.5	1:1	0.172	0.114	-0.04	23.88	24.50	1.153	0.131	22.3
Left side	10	QPSK 1_0	20525/836.5	1:1	0.122	0.054	-0.10	23.88	24.50	1.153	0.062	22.3
Right side	10	QPSK 1_0	20525/836.5	1:1	1.370	0.801	-0.19	23.88	24.50	1.153	0.924	22.3
Right side with Battery2#	10	QPSK 1_0	20525/836.5	1:1	1.360	0.791	-0.10	23.88	24.50	1.153	0.912	22.3
Top side	10	QPSK 1_0	20525/836.5	1:1	0.238	0.111	0.06	23.88	24.50	1.153	0.128	22.3
Bottom side	10	QPSK 1_0	20525/836.5	1:1	0.076	0.034	-0.19	23.88	24.50	1.153	0.039	22.3
Extremity Test data (Separate 0mm 50%RB)												
Front side	10	QPSK 25_25	20525/836.5	1:1	0.334	0.183	0.01	22.78	23.50	1.180	0.216	22.3
Back side	10	QPSK 25_25	20525/836.5	1:1	0.142	0.097	-0.09	22.78	23.50	1.180	0.114	22.3
Left side	10	QPSK 25_25	20525/836.5	1:1	0.074	0.032	0.12	22.78	23.50	1.180	0.038	22.3
Right side	10	QPSK 25_25	20525/836.5	1:1	1.070	0.563	-0.05	22.78	23.50	1.180	0.664	22.3
Top side	10	QPSK 25_25	20525/836.5	1:1	0.193	0.112	0.18	22.78	23.50	1.180	0.132	22.3
Bottom side	10	QPSK 25_25	20525/836.5	1:1	0.086	0.033	0.13	22.78	23.50	1.180	0.039	22.3



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8.3.9 SAR Result of LTE Band 7

Ant 0 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Extremity Test data (Separate 0mm 1RB)												
Front side	20	QPSK 1_50	21100/2535	1:1	0.373	0.186	-0.11	23.71	24.00	1.069	0.199	22.3
Back side	20	QPSK 1_50	21100/2535	1:1	0.808	0.445	0.03	23.71	24.00	1.069	0.476	22.3
Left side	20	QPSK 1_50	21100/2535	1:1	0.344	0.165	0.05	23.71	24.00	1.069	0.176	22.3
Right side	20	QPSK 1_50	21100/2535	1:1	5.430	2.300	-0.10	23.71	24.00	1.069	2.459	22.3
Top side	20	QPSK 1_50	21100/2535	1:1	0.310	0.163	0.11	23.71	24.00	1.069	0.174	22.3
Bottom side	20	QPSK 1_50	21100/2535	1:1	0.061	0.028	0.08	23.71	24.00	1.069	0.030	22.3
Right side	20	QPSK 1_50	20850/2510	1:1	6.580	3.030	-0.01	23.64	24.00	1.086	3.291	22.3
Right side with Battery2#	20	QPSK 1_50	20850/2510	1:1	6.440	2.910	-0.06	23.64	24.00	1.086	3.160	22.3
Right side with Repeated	20	QPSK 1_50	20850/2510	1:1	6.520	2.950	-0.12	23.64	24.00	1.086	3.204	22.3
Right side	20	QPSK 1_50	21350/2560	1:1	6.420	2.730	-0.08	23.47	24.00	1.130	3.085	22.3
Extremity Test data (Separate 0mm 50%RB)												
Front side	20	QPSK 50_25	21100/2535	1:1	0.289	0.134	-0.05	22.44	23.00	1.138	0.152	22.3
Back side	20	QPSK 50_25	21100/2535	1:1	0.654	0.360	-0.10	22.44	23.00	1.138	0.410	22.3
Left side	20	QPSK 50_25	21100/2535	1:1	0.296	0.151	-0.15	22.44	23.00	1.138	0.172	22.3
Right side	20	QPSK 50_25	21100/2535	1:1	5.440	2.080	0.18	22.44	23.00	1.138	2.367	22.3
Top side	20	QPSK 50_25	21100/2535	1:1	0.200	0.093	-0.11	22.44	23.00	1.138	0.106	22.3
Bottom side	20	QPSK 50_25	21100/2535	1:1	0.123	0.063	0.07	22.44	23.00	1.138	0.072	22.3
Right side	20	QPSK 50_25	20850/2510	1:1	4.770	1.890	0.12	22.32	23.00	1.169	2.209	22.3
Right side	20	QPSK 50_25	21350/2560	1:1	4.790	1.920	0.07	22.41	23.00	1.146	2.200	22.3
Extremity Test data (Separate 0mm 100%RB)												
Right side	20	QPSK 100_0	20850/2510	1:1	4.750	1.870	-0.06	22.44	23.00	1.138	2.128	22.3

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Right side 0mm	20850/2510	3.030	2.950	1.027	N/A	N/A

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

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

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

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

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



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8.3.10 SAR Result of LTE Band 38

Ant 0 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Extremity Test data (Separate 0mm 1RB)												
Front side	20	QPSK 1_50	38000/2595	1:1.58	0.281	0.131	-0.11	23.55	24.00	1.109	0.145	22.3
Back side	20	QPSK 1_50	38000/2595	1:1.58	0.436	0.202	0.14	23.55	24.00	1.109	0.224	22.3
Left side	20	QPSK 1_50	38000/2595	1:1.58	0.249	0.120	-0.17	23.55	24.00	1.109	0.133	22.3
Right side	20	QPSK 1_50	38000/2595	1:1.58	4.240	1.670	-0.19	23.55	24.00	1.109	1.852	22.3
Top side	20	QPSK 1_50	38000/2595	1:1.58	0.259	0.113	0.07	23.55	24.00	1.109	0.125	22.3
Bottom side	20	QPSK 1_50	38000/2595	1:1.58	0.012	0.005	-0.10	23.55	24.00	1.109	0.006	22.3
Right side	20	QPSK 1_50	37850/2580	1:1.58	3.890	1.720	-0.06	23.30	24.00	1.175	2.021	22.3
Right side with Battery2#	20	QPSK 1_50	37850/2580	1:1.58	3.830	1.680	-0.09	23.30	24.00	1.175	1.974	22.3
Right side	20	QPSK 1_50	38150/2610	1:1.58	3.660	1.560	0.02	23.35	24.00	1.161	1.811	22.3
Extremity Test data (Separate 0mm 50%RB)												
Front side	20	QPSK 50_25	38000/2595	1:1.58	0.240	0.107	0.18	22.23	23.00	1.194	0.128	22.3
Back side	20	QPSK 50_25	38000/2595	1:1.58	0.413	0.207	-0.13	22.23	23.00	1.194	0.247	22.3
Left side	20	QPSK 50_25	38000/2595	1:1.58	0.204	0.099	0.05	22.23	23.00	1.194	0.118	22.3
Right side	20	QPSK 50_25	38000/2595	1:1.58	3.203	1.230	-0.08	22.23	23.00	1.194	1.469	22.3
Top side	20	QPSK 50_25	38000/2595	1:1.58	0.205	0.098	0.10	22.23	23.00	1.194	0.117	22.3
Bottom side	20	QPSK 50_25	38000/2595	1:1.58	0.133	0.061	-0.09	22.23	23.00	1.194	0.073	22.3
Extremity Test data (Separate 0mm 100%RB)												
Right side	20	QPSK 100_0	37850/2580	1:1.58	3.450	1.490	0.08	22.16	23.00	1.213	1.807	22.3



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8.3.11 SAR Result of WiFi 2.4G

Wi-Fi 2.4G SAR Test Record												
Ant1 Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Extremity Test data (Separate 0mm)												
Front side	802.11b	6/2437	99.29%	1.007	0.378	0.202	-0.10	17.16	18.00	1.213	0.247	22.1
Back side	802.11b	6/2437	99.29%	1.007	2.180	0.860	0.01	17.16	18.00	1.213	1.050	22.1
Back side with Battery2#	802.11b	6/2437	99.29%	1.007	2.150	0.835	0.09	17.16	18.00	1.213	1.020	22.1
Left side	802.11b	6/2437	99.29%	1.007	0.058	0.031	0.13	17.16	18.00	1.213	0.038	22.1
Right side	802.11b	6/2437	99.29%	1.007	0.551	0.254	0.05	17.16	18.00	1.213	0.310	22.1
Top side	802.11b	6/2437	99.29%	1.007	0.096	0.048	-0.13	17.16	18.00	1.213	0.059	22.1
Bottom side	802.11b	6/2437	99.29%	1.007	1.400	0.519	0.11	17.16	18.00	1.213	0.634	22.1



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8.3.12 SAR Result of WiFi 5G

Wi-Fi 5G SAR Test Record												
Ant1 Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Extremity Test data of U-NII-2A (Separate 0mm)												
Front side	802.11a	56/5280	95.68%	1.045	0.347	0.156	0.01	15.18	16.00	1.208	0.197	22.1
Back side	802.11a	56/5280	95.68%	1.045	1.048	0.380	0.05	15.18	16.00	1.208	0.480	22.1
Left side	802.11a	56/5280	95.68%	1.045	0.167	0.046	-0.14	15.18	16.00	1.208	0.058	22.1
Right side	802.11a	56/5280	95.68%	1.045	0.768	0.299	0.11	15.18	16.00	1.208	0.377	22.1
Top side	802.11a	56/5280	95.68%	1.045	0.079	0.025	0.03	15.18	16.00	1.208	0.032	22.1
Bottom side	802.11a	56/5280	95.68%	1.045	1.540	0.523	0.01	15.18	16.00	1.208	0.660	22.1
Extremity Test data of U-NII-2C (Separate 0mm)												
Front side	802.11ac VHT80	122/5610	95.68%	1.045	0.190	0.081	-0.10	15.24	16.00	1.191	0.101	22.1
Back side	802.11ac VHT80	122/5610	95.68%	1.045	0.655	0.242	-0.02	15.24	16.00	1.191	0.301	22.1
Left side	802.11ac VHT80	122/5610	95.68%	1.045	0.217	0.055	0.12	15.24	16.00	1.191	0.068	22.1
Right side	802.11ac VHT80	122/5610	95.68%	1.045	0.501	0.203	-0.03	15.24	16.00	1.191	0.253	22.1
Top side	802.11ac VHT80	122/5610	95.68%	1.045	0.181	0.046	-0.06	15.24	16.00	1.191	0.057	22.1
Bottom side	802.11ac VHT80	122/5610	95.68%	1.045	0.871	0.294	-0.01	15.24	16.00	1.191	0.366	22.1
Extremity Test data of U-NII-3 (Separate 0mm)												
Front side	802.11ac VHT80	155/5775	95.68%	1.045	0.302	0.125	0.11	16.38	17.00	1.153	0.151	22.1
Back side	802.11ac VHT80	155/5775	95.68%	1.045	0.840	0.340	-0.07	16.38	17.00	1.153	0.410	22.1
Left side	802.11ac VHT80	155/5775	95.68%	1.045	0.396	0.163	0.01	16.38	17.00	1.153	0.196	22.1
Right side	802.11ac VHT80	155/5775	95.68%	1.045	0.835	0.354	0.10	16.38	17.00	1.153	0.427	22.1
Top side	802.11ac VHT80	155/5775	95.68%	1.045	0.203	0.051	-0.13	16.38	17.00	1.153	0.061	22.1
Bottom side	802.11ac VHT80	155/5775	95.68%	1.045	1.990	0.570	0.04	16.38	17.00	1.153	0.687	22.1
Bottom side with Battery2#	802.11ac VHT80	155/5775	95.68%	1.045	1.980	0.564	0.04	16.38	17.00	1.153	0.680	22.1



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8.3.13 SAR Result of BT

Bluetooth SAR Test Record												
Ant1 Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Extremity Test data (Separate 0mm)												
Front side	DH5	78/2480	78.09%	1.281	0.044	0.022	0.11	7.80	8.00	1.047	0.030	22.1
Back side	DH5	78/2480	78.09%	1.281	0.188	0.073	0.04	7.80	8.00	1.047	0.098	22.1
Back side with Battery2#	DH5	78/2480	78.09%	1.281	0.183	0.071	0.07	7.80	8.00	1.047	0.095	22.1
Left side	DH5	78/2480	78.09%	1.281	0.015	0.011	0.18	7.80	8.00	1.047	0.015	22.1
Right side	DH5	78/2480	78.09%	1.281	0.050	0.013	-0.17	7.80	8.00	1.047	0.017	22.1
Top side	DH5	78/2480	78.09%	1.281	0.026	0.005	-0.04	7.80	8.00	1.047	0.007	22.1
Bottom side	DH5	78/2480	78.09%	1.281	0.116	0.046	0.00	7.80	8.00	1.047	0.062	22.1



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8.4 Multiple Transmitter Evaluation

8.4.1 Simultaneous SAR test evaluation

No.	Simultaneous Tx Combination	Extremity
1	WIFI5G+BT	YES
2	WWAN+WIFI2.4G	YES
3	WWAN+WIFI5G	YES
4	WWAN+BT	YES
5	WWAN+WIFI5G+BT	YES



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8.4.2 Simultaneous Transmission SAR Summation Scenario

Test position		SARmax (W/kg)			Summed SAR
		WiFi 2.4G	WiFi 5G	BT	
		2	3	4	
WLAN	Front side	0.247	0.197	0.030	0.227
	Back side	1.050	0.480	0.098	0.578
	Left side	0.038	0.196	0.015	0.211
	Right side	0.310	0.427	0.017	0.444
	Top side	0.059	0.061	0.007	0.068
	Bottom side	0.634	0.687	0.062	0.749

Test position		SARmax (W/kg)				Summed SAR			
		WWAN Ant0	WiFi 2.4G	WiFi 5G	BT				
		1	2	3	4				
GSM850	Front side	0.271	0.247	0.197	0.030	0.518	0.468	0.301	0.498
	Back side	0.144	1.050	0.480	0.098	1.194	0.624	0.242	0.722
	Left side	0.052	0.038	0.196	0.015	0.090	0.248	0.067	0.263
	Right side	1.064	0.310	0.427	0.017	1.374	1.491	1.081	1.508
	Top side	0.195	0.059	0.061	0.007	0.254	0.256	0.202	0.263
	Bottom side	0.033	0.634	0.687	0.062	0.667	0.720	0.095	0.782
GSM1900	Front side	0.269	0.247	0.197	0.030	0.516	0.466	0.299	0.496
	Back side	0.143	1.050	0.480	0.098	1.193	0.623	0.241	0.721
	Left side	0.329	0.038	0.196	0.015	0.367	0.525	0.344	0.540
	Right side	1.403	0.310	0.427	0.017	1.713	1.830	1.420	1.847
	Top side	0.073	0.059	0.061	0.007	0.132	0.134	0.080	0.141
	Bottom side	0.030	0.634	0.687	0.062	0.664	0.717	0.092	0.779
WCDMA B2	Front side	0.477	0.247	0.197	0.030	0.724	0.674	0.507	0.704
	Back side	0.270	1.050	0.480	0.098	1.320	0.750	0.368	0.848
	Left side	0.479	0.038	0.196	0.015	0.517	0.675	0.494	0.690
	Right side	2.792	0.310	0.427	0.017	3.102	3.219	2.809	3.236
	Top side	0.233	0.059	0.061	0.007	0.292	0.294	0.240	0.301
	Bottom side	0.042	0.634	0.687	0.062	0.676	0.729	0.104	0.791
WCDMA B4	Front side	0.605	0.247	0.197	0.030	0.852	0.802	0.635	0.832
	Back side	0.263	1.050	0.480	0.098	1.313	0.743	0.361	0.841
	Left side	0.364	0.038	0.196	0.015	0.402	0.560	0.379	0.575
	Right side	2.667	0.310	0.427	0.017	2.977	3.094	2.684	3.111
	Top side	0.164	0.059	0.061	0.007	0.223	0.225	0.171	0.232
	Bottom side	0.047	0.634	0.687	0.062	0.681	0.734	0.109	0.796
WCDMA B5	Front side	0.260	0.247	0.197	0.030	0.507	0.457	0.290	0.487
	Back side	0.143	1.050	0.480	0.098	1.193	0.623	0.241	0.721
	Left side	0.050	0.038	0.196	0.015	0.088	0.246	0.065	0.261
	Right side	0.833	0.310	0.427	0.017	1.143	1.260	0.850	1.277
	Top side	0.166	0.059	0.061	0.007	0.225	0.227	0.173	0.234
	Bottom side	0.039	0.634	0.687	0.062	0.673	0.726	0.101	0.788
LTE B2	Front side	0.509	0.247	0.197	0.030	0.756	0.706	0.539	0.736
	Back side	0.294	1.050	0.480	0.098	1.344	0.774	0.392	0.872
	Left side	0.521	0.038	0.196	0.015	0.559	0.717	0.536	0.732



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	Right side	2.416	0.310	0.427	0.017	2.726	2.843	2.433	2.860
	Top side	0.170	0.059	0.061	0.007	0.229	0.231	0.177	0.238
	Bottom side	0.043	0.634	0.687	0.062	0.677	0.730	0.105	0.792
LTE B4	Front side	0.603	0.247	0.197	0.030	0.850	0.800	0.633	0.830
	Back side	0.274	1.050	0.480	0.098	1.324	0.754	0.372	0.852
	Left side	0.376	0.038	0.196	0.015	0.414	0.572	0.391	0.587
	Right side	2.712	0.310	0.427	0.017	3.022	3.139	2.729	3.156
	Top side	0.170	0.059	0.061	0.007	0.229	0.231	0.177	0.238
	Bottom side	0.048	0.634	0.687	0.062	0.682	0.735	0.110	0.797
LTE B5	Front side	0.235	0.247	0.197	0.030	0.482	0.432	0.265	0.462
	Back side	0.131	1.050	0.480	0.098	1.181	0.611	0.229	0.709
	Left side	0.062	0.038	0.196	0.015	0.100	0.258	0.077	0.273
	Right side	0.924	0.310	0.427	0.017	1.234	1.351	0.941	1.368
	Top side	0.132	0.059	0.061	0.007	0.191	0.193	0.139	0.200
	Bottom side	0.039	0.634	0.687	0.062	0.673	0.726	0.101	0.788
LTE B7	Front side	0.199	0.247	0.197	0.030	0.446	0.396	0.229	0.426
	Back side	0.476	1.050	0.480	0.098	1.526	0.956	0.574	1.054
	Left side	0.176	0.038	0.196	0.015	0.214	0.372	0.191	0.387
	Right side	3.291	0.310	0.427	0.017	3.601	3.718	3.308	3.735
	Top side	0.174	0.059	0.061	0.007	0.233	0.235	0.181	0.242
	Bottom side	0.072	0.634	0.687	0.062	0.706	0.759	0.134	0.821
LTE B38	Front side	1.807	0.247	0.197	0.030	2.054	2.004	1.837	2.034
	Back side	0.247	1.050	0.480	0.098	1.297	0.727	0.345	0.825
	Left side	0.133	0.038	0.196	0.015	0.171	0.329	0.148	0.344
	Right side	2.021	0.310	0.427	0.017	2.331	2.448	2.038	2.465
	Top side	0.125	0.059	0.061	0.007	0.184	0.186	0.132	0.193
	Bottom side	0.073	0.634	0.687	0.062	0.707	0.760	0.135	0.822



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9 Equipment list

Test Platform		SPEAG DASY Professional				
Software Reference		DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)				
Hardware Reference						
Equipment		Manufacturer	Model	Inventory No.	Calibration Date	Due date of calibration
☒	Test Phantom	SPEAG	SAM Twin	SEM060-24	NCR	NCR
☒	DAE	SPEAG	DAE4	SEM060-48	2026/2/2	2027/2/1
☒	E-Field Probe	SPEAG	EX3DV4	SEM060-04	2025/12/19	2026/12/18
☒	Validation Kits	SPEAG	D835V2	SEM060-08	2025/6/19	2028/6/18
☒	Validation Kits	SPEAG	D1750V2	SEM060-69	2025/6/18	2028/6/17
☒	Validation Kits	SPEAG	D1950V3	SEM060-11	2025/6/18	2028/6/17
☒	Validation Kits	SPEAG	D2450V2	SEM060-14	2025/6/18	2028/6/17
☒	Validation Kits	SPEAG	D2600V2	SEM060-41	2025/6/17	2028/6/16
☒	Validation Kits	SPEAG	D5GHzV2	SEM060-21	2025/6/17	2028/6/16
☒	Dielectric parameter probes	SPEAG	DAK-3.5	SEM060-59	2025/11/16	2026/11/15
☒	Radio Communication Analyzer	Rohde & Schwarz	CMW 500	SEM010-08	2026/2/3	2027/2/2
☒	Radio Communication Analyzer	Anritsu	MT8820C	SEM010-04	2026/2/4	2027/2/3
☒	Radio Communication Analyzer	Anritsu	MT8820C	SEM060-55	2026/4/1	2027/3/31
☒	Electro Thermometer	MITIR	TP3001	SEM002-30	2026/3/16	2027/3/15
☒	Humidity and Temperature Indicator	deli	8838	SEM002-43	2025/7/24	2026/7/23
☒	Speed reading thermometer	LKM electronic GmbH	DTM 3000	SEM060-49	2026/4/3	2027/4/2
☒	Humidity and Temperature Indicator	AS ONE	THA-02L	SEM060-50	2026/4/1	2027/3/31

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



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10 Calibration certificate

Please see the Appendix C

11 Photographs

Please see the Appendix D

Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs

--- End of report ---



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