

SAR Test Report

Report No.: AGC00248200801FH01

:	2AXMX-G3
5:	Original Equipment
: @	Mobile Phone
:	artfone
:	G3, G6, F30, CF241A, C10, F20
÷	Shenzhen Kuxuntong Technology Co., Ltd.
: @	Sep. 18,2020
ي : ®	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093:2013 IEEE Std C95.1 ™-2005 IEC 62209-1: 2016
:	V1.0

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Report Revise Record

Report Version Revise Time		Issued Date	Valid Version	Notes
V1.0		Sep. 18,2020	Valid	Initial Release

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Test Report				
Applicant Name	Shenzhen Kuxuntong Technology Co., Ltd.			
Applicant Address	1A1320, Logan Nine Diamond Buildings, Hongshan, Longhua District, Shenzhen, China.			
Manufacturer Name	Shenzhen Kuxuntong Technology Co., Ltd.			
Manufacturer Address	1A1320, Logan Nine Diamond Buildings, Hongshan, Longhua District, Shenzhen, China.			
Factory Name	Shenzhen Kuxuntong Technology Co., Ltd.			
Factory Address	1A1320, Logan Nine Diamond Buildings, Hongshan, Longhua District, Shenzhen, China.			
Product Designation	Mobile Phone			
Brand Name	artfone			
Model Name	G3, G6, F30, CF241A, C10, F20			
Different Description	All the models are the same, only different in model names.			
EUT Voltage	DC3.7V by battery			
Applicable Standard	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093:2013 IEEE Std C95.1 ™-2005 IEC 62209-1: 2016			
Test Date	Aug. 24,2020 to Aug. 25,2020			
Report Template	AGCRT-US-3G3/SAR (2018-01-01)			

Note: The results of testing in this report apply to the product/system which was tested only.

Jack tom

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Aug. 25,2020

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Sep. 18,2020

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1. SUMMARY OF MAXIMUM SAR VALUE

The maximum results of Specific Absorption Rate (SAR) found during testing for EUT are as follows:

Frequency Bond	Highest Rep	SAR Test Limit	
Frequency Band	Head	Body-worn	(W/Kg)
GSM 850	0.617	1.440	
PCS 1900	0.657	0.395	
UMTS Band II	0.487	0.561	1.6
UMTS Band V	0.340	0.622	1.0
Simultaneous Reported SAR		1.545	F. P.C.
SAR Test Result		PASS	e 0

This device is compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6W/Kg) specified in IEEE Std. 1528:2013; FCC 47CFR § 2.1093; IEEE/ANSI C95.1:2005 and the following specific FCC Test Procedures:

- KDB 447498 D01 General RF Exposure Guidance v06
- KDB 648474 D04 Handset SAR v01r03
- KDB 865664 D01 SAR Measurement 100MHz to 6GHz v01r04
- KDB 941225 D01 3G SAR Procedures v03r01

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2. GENERAL INFORMATION

2.1. EUT Description

General Information			
Product Designation	Mobile Phone		
Test Model	G3		
Hardware Version	W3A MB_V2.0		
Software Version	artfone_G3_V11		
Device Category	Portable		
RF Exposure Environment	Uncontrolled		
Antenna Type	Internal		
GSM and GPRS			
Support Band	☐GSM 850 ☐PCS 1900 (U.S. Bands) ☐GSM 900 ☐DCS 1800 (Non-U.S. Bands)		
GPRS Type	Class B		
GPRS Class	Class 12(1Tx+4Rx, 2Tx+3Rx, 3Tx+2Rx, 4Tx+1Rx)		
TX Frequency Range	GSM 850 : 820-850MHz;; PCS 1900: 1850-1910MHz;		
RX Frequency Range	GSM 850 : 869~894MHz; PCS 1900: 1930~1990MHz		
Release Version	R99		
Type of modulation	GMSK for GSM/GPRS;		
Antenna Gain	GSM850:0.96dBi; PCS1900: 1.25dBi		
Max. Average Power	GSM850: 32.37dBm ;PCS1900: 27.87dBm		
WCDMA			
Support Band	UMTS FDD Band II UMTS FDD Band V (U.S. Bands)		
HS Type	HSPA(HSUPA/HSDPA)		
TX Frequency Range	WCDMA FDD Band II: 1850-1910MHz; WCDMA FDD Band V: 820-850MHz		
RX Frequency Range	WCDMA FDD Band II: 1930-1990MHz; WCDMA FDD Band V: 869-894MHz		
Release Version	Rel-6		
Type of modulation	HSDPA:QPSK/16QAM; HSUPA:BPSK; WCDMA:QPSK		
Antenna Gain	WCDMA850:0.96dBi; WCDMA1900:1.25dBi		
Max. Average Power	Band II: 21.77dBm; Band V: 22.32dBm		

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EUT Description(Continue)

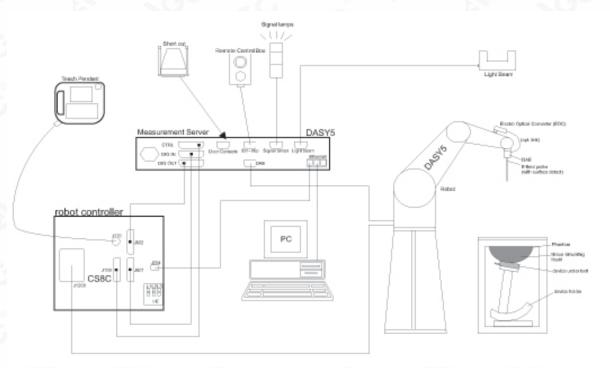
Bluetooth			
Operation Frequency	2402~2480MHz		
Antenna Gain	0dBi		
Bluetooth Version	V 2.1+EDR		
Type of modulation	BR/EDR: GFSK, II/4-DQPSK, 8-DPSK;		
RF Output Power	BR/EDR: 6.353dBm;		
Accessories			
Battery	Brand name: artfone Model No. : BL-5C Voltage and Capacitance: 3.7 V & 1000mAh		
Earphone	Brand name: N/A Model No. : N/A		
2.The sample us	neasure the average power and Peak power at the same time ed for testing is end product. Ie has no any deviation to the test method of standard mentioned in page 1.		
Product Type Image: Second state of the second s			

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3. SAR MEASUREMENT SYSTEM

3.1. The DASY5 system used for performing compliance tests consists of following items



- A standard high precision 6-axis robot with controller, teach pendant and software.
- Data acquisition electronics (DAE) which attached to the robot arm extension. The DAE consist of a highly
 sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast
 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement
 server is accomplished through an optical downlink for data and status information, as well as an optical
 uplink for commands and the clock
- A dosimetric probe equipped with an optical surface detector system.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital Communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- A Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- · Phantoms, device holders and other accessories according to the targeted measurement.

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3.2. DASY5 E-Field Probe

The SAR measurement is conducted with the dosimetric probe manufactured by SPEAG. The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. SPEAG conducts the probe calibration in compliance with international and national standards (e.g. IEEE-1528 etc.)Under ISO17025.The calibration data are in Appendix D.

Isotropic E-Field Probe Specification

Model	EX3DV4-SN:3953	C	8	
Manufacture	SPEAG	6	G	8
frequency	0.7GHz-6GHz Linearity:±0.9%(k=2)			
Dynamic Range	0.01W/Kg-100W/Kg Linearity: ±0.9%(k=2)			
	Overall length:337mm Tip diameter:2.5mm Typical distance from probe tip to dipole	414	3793	-
Dimensions	centers:1mm			
Application	High precision dosimetric measurements in a (e.g., very strong gradient fields). Only probe compliance testing for frequencies up to 6 GI 30%.	which enables		

3.3. Data Acquisition Electronics description

The data acquisition electronics (DAE) consist if a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement sever is accomplished through an optical downlink fir data and status information, as well as an optical uplink for commands and the clock.

The mechanical probe mounting device includes two different sensor systems for frontal and sideways probe contacts. They are used for mechanical surface detection and probe collision detection.

DAE4			
Input Impedance	200MOhm	NO CONTRACTOR	00000
The Inputs	Symmetrical and floating	South State	All and a second
Common mode rejection	above 80 dB	B	

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3.4. Robot

The DASY system uses the high precision robots (DASY5:TX60) type from Stäubli SA (France). For the 6-axis controller system, the robot controller version from is used.

The XL robot series have many features that are important for our application:

- □ High precision (repeatability 0.02 mm)
- □ High reliability (industrial design)
- □ Jerk-free straight movements
- □ Low ELF interference (the closed metallic construction shields against motor control fields)
- □ 6-axis controller



3.5. Light Beam Unit

The light beam switch allows automatic "tooling" of the probe. During the process, the actual position of the probe tip with respect to the robot arm is measured, as well as the probe length and the horizontal probe offset. The software then corrects all movements, such that the robot coordinates are valid for the probe tip.

The repeatability of this process is better than 0.1 mm. If a position has been taught with an aligned prob.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position. e, the same position will be reached with another aligned probe within 0



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3.6. Device Holder

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 center for both scales is the ear reference point (EPR).

Thus the device needs no repositioning when changing the angles. The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity ε =3 and loss tangent δ = 0.02. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



3.7. Measurement Server

The measurement server is based on a PC/104 CPU board with CPU (DASY5: 400 MHz, Intel Celeron), chip-disk (DASY5: 128MB), RAM (DASY5: 128MB). The necessary circuits for communication with the DAE electronic box, as well as the 16 bit AD converter system for optical detection and digital I/O interface are contained on the DAYS I/O board, which is directly connected to the PC/104 bus of the CPU board.

The measurement server performs all the real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operations.



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3.8. PHANTOM SAM Twin Phantom

The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region where shell thickness increases to 6mm). It has three measurement areas:

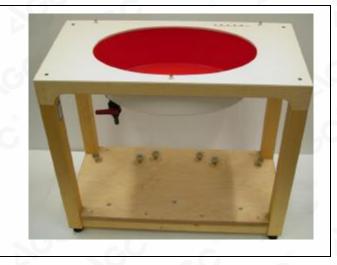
- Left head
- Right head
- □ Flat phantom



The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

ELI4 Phantom

□ Flat phantom a fiberglass shell flat phantom with 2mm+/- 0.2 mm shell thickness. It has only one measurement area for Flat phantom



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4. SAR MEASUREMENT PROCEDURE

4.1. Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and occupational/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element(dv) of given mass density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dV} \right)$$

SAR is expressed in units of Watts per kilogram (W/Kg) SAR can be obtained using either of the following equations:

$$SAR = \frac{\sigma E^2}{\rho}$$

$$SAR = c_h \frac{dT}{dt}_{t=0}$$

Where

AR	
Е	
σ	
ρ	
C.	

dt

is the specific absorption rate in watts per kilogram; is the r.m.s. value of the electric field strength in the tissue in volts per meter; is the conductivity of the tissue in siemens per metre; is the density of the tissue in kilograms per cubic metre; is the heat capacity of the tissue in joules per kilogram and Kelvin;

| t = 0 is the initial time derivative of temperature in the tissue in kelvins per second

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4.2. SAR Measurement Procedure

Step 1: Power Reference Measurement

The Power Reference Measurement and Power Drift Measurement are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface is 2.7mm This distance cannot be smaller than the distance os sensor calibration points to probe tip as `defined in the probe properties,

Step 2: Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum locations even in relatively coarse grids. When an Area Scan has measured all reachable points, it computes the field maximal found in the scanned area, within a range of the global maximum. The range (in db) is specified in the standards for compliance testing. For example, a 2db range is required in IEEE Standard 1528, whereby 3db is a requirement when compliance is assessed in accordance with the ARIB standard (Japan) If one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximum are detected, the number of Zoom Scan has to be increased accordingly.

Area Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100MHz to 6GHz

	\leq 3 GHz	> 3 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°±1°	20°±1°	
	≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm	
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be \leq the corresponding x or y dimension of the test device with at least one measurement point on the test device.		

Step 3: Zoom Scan

Zoom Scan are used to assess the peak spatial SAR value within a cubic average volume containing 1g abd 10g of simulated tissue. The Zoom Scan measures points(refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the Zoom Scan evaluates the averaged SAR for 1g and 10g and displays these values next to the job's label.

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	Maximum zoom scan spatial resolution: Δx_{Z00m} , Δy_{Z00m}		$\leq 2 \text{ GHz}: \leq 8 \text{ mm}$ 2 - 3 GHz: $\leq 5 \text{ mm}^*$	$3 - 4 \text{ GHz} \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz} \le 4 \text{ mm}^*$	
	uniform grid: $\Delta z_{Zoom}(n)$		\leq 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm	
	Maximum zoom scan spatial resolution, normal to phantom surface	al resolution, 1 st two points closest to phantom to phantom surface	1 st two points closest	\leq 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
			$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$		
	Minimum zoom scan volume	x, y, z		\geq 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
	Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE				

Zoom Scan Parameters extracted from KDB865664 d01 SAR Measurement 100MHz to 6GHz

P1528-2011 for details.

When zoom scan is required and the <u>reported</u> SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

Step 4: Power Drift Measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the same settings. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

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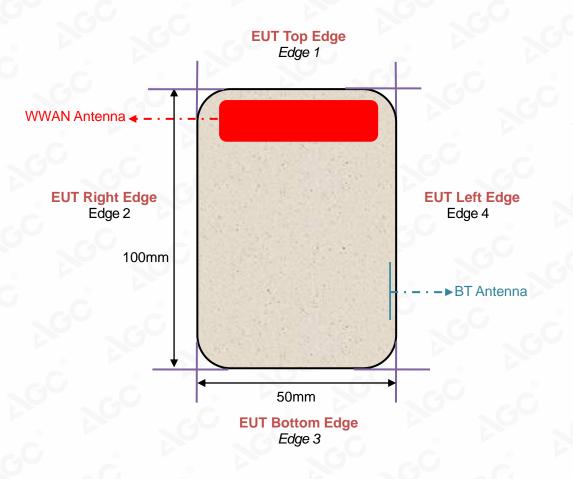
4.3. RF Exposure Conditions

Test Configuration and setting:

The EUT is a model of GSM/WCDMA Portable Mobile Station (MS). It supports GSM/GPRS, WCDMA/HSPA and BT.

For WWAN SAR testing, the device was controlled by using a base station emulator. Communication between the device and the emulator were established by air link. The distance between the EUT and the antenna is larger than 50cm, and the output power radiated from the emulator antenna is at least 30db smaller than the output power of EUT.

Antenna Location: (the back view)



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5. TISSUE SIMULATING LIQUID

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15cm. For head SAR testing the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15cm For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 10% are listed in 6.2

5.1. The composition of the tissue simulating liquid

Ingredient (% Weight) Frequency (MHz)	Water	Nacl	Polysorbate 20	DGBE	1,2 Propanediol	Triton X-100
835 Head	50.36	1.25	48.39	0.0	0.0	0.0
1900 Head	54.9	0.18	0.0	44.92	0.0	0.0

5.2. Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEC 62209-1 have been incorporated in the following table. The body tissue dielectric parameters recommended by the IEC 62209-2 have been incorporated in the following table.

arget Frequency	he	ad	b	ody
(MHz)	٤r	σ (S/m)	٤r	σ (S/m)
300	45.3	0.87	45.3	0.87
450	43.5	0.87	43.5	0.87
835	41.5	0.90	41.5	0.90
900	41.5	0.97	41.5	0.97
915	41.5	1.01	41.5	1.01
1450	40.5	1.20	40.5	1.20
1610	40.3	1.29	40.3	1.29
1800 – 2000	40.0	1.40	40.0	1.40
2450	39.2	1.80	39.2	1.80
3000	38.5	2.40	38.5	2.40

(ϵr = relative permittivity, σ = conductivity and ρ = 1000 kg/m3)

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5.3. Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using DASY 5 Dielectric Probe Kit and R&S Network Analyzer ZVL6.

		Tissue Stimulant Me	easurement for 835MHz		
	Fr.	Dielectric Para	ameters (±10%)	Tissue	G
	(MHz)	εr 41.5 (37.35-45.65)	δ[s/m] 0.90(0.81-0.99)	Temp [°C]	Test time
Head	824.2	42.83	0.87	8	
	835	42.20	0.89	20.5	Aug. 24,2020
	836.6	41.93	0.91	20.5	Aug. 24,2020
	848.8	41.56	0.93	0	

		Tissue Stimulant Me	easurement for 1900MHz		
- C	Fr. ®	Dielectric Para	Tissue	Taat time	
Head	(MHz)	εr40.00(36.00-44.00)	δ[s/m]1.40(1.26-1.54)	Temp [°C]	Test time
	1880	39.24	1.38	20.9	Aug. 25,2020
	1900	38.61	1.41	20.9	Aug. 25,2020

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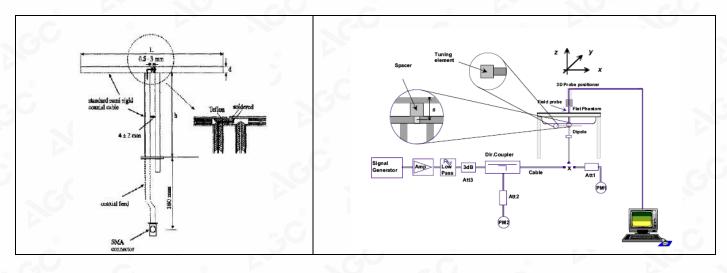
6. SAR SYSTEM CHECK PROCEDURE

6.1. SAR System Check Procedures

SAR system check is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device. The same SAR probe(s) and tissue-equivalent media combinations used with each specific SAR system for system verification must be used for device testing. When multiple probe calibration points are required to cover substantially large transmission bands, independent system verifications are required for each probe calibration point. A system verification must be performed before each series of SAR measurements using the same probe calibration point and tissue-equivalent medium. Additional system verification should be considered according to the conditions of the tissue-equivalent medium and measured tissue dielectric parameters, typically every three to four days when the liquid parameters are remeasured or sooner when marginal liquid parameters are used at the beginning of a series of measurements.

Each DASY system is equipped with one or more system check kits. These units, together with the predefined measurement procedures within the DASY software, enable the user to conduct the system check and system validation. System kit includes a dipole, and dipole device holder.

The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system check setup is shown as below.

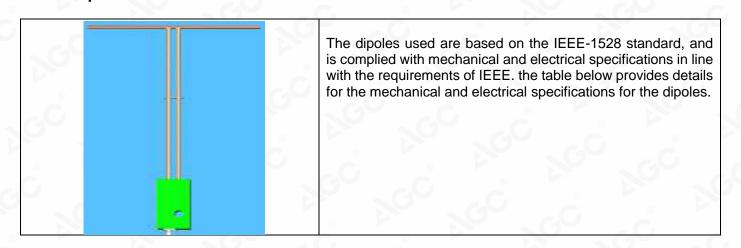


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6.2. SAR System Check 6.2.1. Dipoles



Frequency	L (mm)	h (mm)	d (mm)
835MHz	161.0	89.8	3.6
1900MHz	68	39.5	3.6

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6.2.2. System Check Result

System Per	formance	Check at	t 835MHz&1900N	IHz for Head				
Validation K	(it: SN 29/	/15 DIP 00	G850-383& SN 4	6/11 DIP 1G900-	187			
Frequency Value(W/Kg)		0	Reference (± 1	Tested Value(W/Kg)		Tissue Temp.	Test time	
[MHz]	1g	10g	1g	10g	1g	10g	[°C]	3
835	9.85	6.27	8.865-10.835	5.643 -6.897	9.87	6.42	20.5	Aug. 24,2020
1900	40.25	20.50	36.225-44.275	18.45-22.55	39.31	19.81	20.9	Aug. 25,2020

Note:

(1) We use a CW signal of 18dBm for system check, and then all SAR values are normalized to 1W forward power. The result must be within $\pm 10\%$ of target value.

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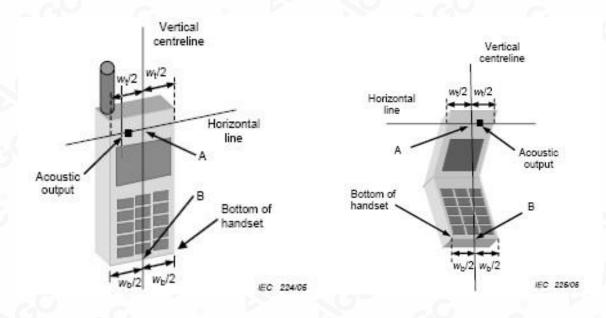


7. EUT TEST POSITION

This EUT was tested in Right Cheek, Right Tilted, Left Cheek, Left Tilted, Body back, Body and front.

7.1. Define Two Imaginary Lines on the Handset

- (1)The vertical centerline passes through two points on the front side of the handset the midpoint of the width wt of the handset at the level of the acoustic output, and the midpoint of the width wb of the handset.
- (2)The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
- (3)The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



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7.2. Cheek Position

- (1) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center picec in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- (2) To move the device towards the phantom with the ear piece aligned with the the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost



7.3. Tilt Position

- (1) To position the device in the "cheek" position described above.
- (2) While maintaining the device in the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until with the ear is lost.



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7.4. Body Worn Position

ut let

- (1) To position the EUT parallel to the phantom surface.
- (2) To adjust the EUT parallel to the flat phantom.
- (3) To adjust the distance between the EUT surface and the flat phantom to 10mm.

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8. SAR EXPOSURE LIMITS

Limits for General Population/Uncontrolled Exposure (W/kg)

Type Exposure	Uncontrolled Environment Limit (W/kg)
Spatial Peak SAR (1g cube tissue for brain or body)	1.60
Spatial Average SAR (Whole body)	0.08
Spatial Peak SAR (Limbs)	4.0

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9. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

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10. TEST EQUIPMENT LIST

Equipment description	Manufacturer/ Model	Identification No.	Current calibration date	Next calibration date
Stäubli Robot	Stäubli-TX60	F13/5Q2UD1/A/01	N/A	N/A
Robot Controller	Stäubli-CS8	139522	N/A	N/A
E-Field Probe	Speag- EX3DV4	SN:3953	Jul. 29,2020	Jul. 28,2021
SAM Twin Phantom	Speag-SAM	1790	N/A	N/A
Device Holder	Speag-SD 000 H01 KA	SD 000 H01 KA	N/A	N/A
DAE4	Speag-SD 000 D04 BM	1398	Apr. 23,2020	Apr. 22,2021
SAR Software	Speag-DASY5	DASY52.8	N/A	N/A
Liquid	SATIMO	- 0	N/A	N/A
Radio Communication Tester	R&S-CMU200	069Y7-158-13-712	Mar. 17,2020	Mar. 16,2021
Dipole	SATIMO SID835	SN 29/15 DIP 0G850-383	Apr. 26,2019	Apr. 25,2022
Dipole	SATIMO SID1900	SN 46/11 DIP 1G900-187	Apr. 26,2019	Apr. 25,2022
Signal Generator	Agilent-E4438C	US41461365	Oct. 08,2019	Oct. 07,2020
Vector Analyzer	Agilent / E4440A	US41421290	Sep. 09,2019	Sep. 08,2020
Network Analyzer	Rhode & Schwarz ZVL6	SN101443	Oct. 08,2019	Oct. 07,2020
Attenuator	Warison /WATT-6SR1211	S/N:WRJ34AYM2F1	June 10,2020	June 09,2021
Attenuator	Mini-circuits / VAT-10+	31405	June 10,2020	June 09,2021
Amplifier	AS0104-55_55	1004793	June 11,2020	June 10,2021
Directional Couple	Werlatone/ C5571-10	SN99463	May 15,2020	May 14,2022
Directional Couple	Werlatone/ C6026-10	SN99482	May 15,2020	May 14,2022
Power Sensor	NRP-Z21	1137.6000.02	Sep. 09,2019	Sep. 08,2020
Power Sensor	NRP-Z23	US38261498	Feb. 18,2020	Feb. 17,2021
Power Viewer	R&S	V2.3.1.0	N/A	N/A

Note: Per KDB 865664 Dipole SAR Validation, AGC Lab has adopted 3 years calibration intervals. On annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

1. There is no physical damage on the dipole;

2. System validation with specific dipole is within 10% of calibrated value;

- 3. Return-loss is within 20% of calibrated measurement;
- 4. Impedance is within 5Ω of calibrated measurement.

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11. MEASUREMENT UNCERTAINTY

				ty- EX3D\		4.4.0			
Measu	urement u	ncertainty for	or Dipole a		over 1 gram	/ 10 gram.	h	I i	
а	b	с	d	e f(d,k)	f	g	c×f/e	c×g/e	k
Uncertainty Component	Sec.	Tol (± %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (±%)	10g Ui (±%)	vi
Measurement System	®				6	- 61		8	
Probe calibration	E.2.1	6.65	Ν	1	1	1	6.65	6.65	8
Axial Isotropy	E.2.2	0.6	R	$\sqrt{3}$	⊚ √0.5	√0.5	0.24	0.24	8
Hemispherical Isotropy	E.2.2	1.6	R	$\sqrt{3}$	√0.5	√0.5	0.65	0.65	8
Boundary effect	E.2.3	1	R	$\sqrt{3}$	1	1	0.58	0.58	8
Linearity	E.2.4	0.45	R	$\sqrt{3}$	1	1	0.26	0.26	∞
System detection limits	E.2.4	1	R	√3	1	1	0.58	0.58	∞
Modulation response	E2.5	3.3	R	$\sqrt{3}$	1	1	1.91	1.91	8
Readout Electronics	E.2.6	0.15	N		1	1	0.15	0.15	∞
Response Time	E.2.7	0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
Integration Time	E.2.8	1.7	R	$\sqrt{3}$	1	1	0.98	0.98	∞
RF ambient conditions-Noise	E.6.1	3	R	$\sqrt{3}$	1	1 💿	1.73	1.73	∞
RF ambient conditions-reflections	E.6.1	3	R	$\sqrt{3}$	1	1	1.73	1.73	8
Probe positioner mechanical tolerance	E.6.2	0.4	R	√3	1	1	0.23	0.23	∞
Probe positioning with respect to phantom shell	E.6.3	6.7	R	√3	1	1	3.87	3.87	8
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	4	R	√3	1	1	2.31	2.31	∞
Test sample Related						8		< G	
Test sample positioning	E.4.2	2.9	N	C1	1	1	2.90	2.90	8
Device holder uncertainty	E.4.1	3.6	N	1	1	1	3.60	3.60	∞
Output power variation—SAR drift measurement	E.2.9	5	R	√3	1	1	2.89	2.89	8
SAR scaling	E.6.5	5	R	$\sqrt{3}$	1 📀	1	2.89	2.89	∞
Phantom and tissue parameters	3				20			R	
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	6.6	R	√3	1	1	3.81	3.81	8
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	0 1	0.84	1.90	1.60	8
Liquid conductivity measurement	E.3.3	4	N	1	0.78	0.71	3.12	2.84	 M
Liquid permittivity measurement	E.3.3	5	Ν	1	0.23	0.26	1.15	1.30	М
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	√3	0.78	0.71	1.13	1.02	8
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	√3	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty			RSS	0			11.79	11.63	
Expanded Uncertainty (95% Confidence interval)		C.	K=2	G	8	6	23.59	23.26	C

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Syster	n Check u			ty- EX3DV averaged o		/ 10 gram.			
a	b	С	d	e f(d,k)	f	g	h cxf/e	i cxg/e	k
Uncertainty Component	Sec.	Tol (± %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (±%)	10g Ui (±%)	vi
Measurement System	0				-C				
Probe calibration drift	E.2.1	0.5	Ν	1	1	1	0.5	0.5	8
Axial Isotropy	E.2.2	0.6	R	$\sqrt{3}$	0	0	0.00	0.00	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Hemispherical Isotropy	E.2.2	1.6	R	$\sqrt{3}$	0	0	0.00	0.00	~
Boundary effect	E.2.3	1	R	√3	0	0	0.00	0.00	~
Linearity	E.2.4	0.45	R	$\sqrt{3}$	0	0	0.00	0.00	~
System detection limits	E.2.4	1	R	√3 ⊚	0	0	0.00	0.00	~
Modulation response	E2.5	3.3	R	$\sqrt{3}$	0	0	0.00	0.00	~
Readout Electronics	E.2.6	0.15	N		0	0	0.00	0.00	~
Response Time	E.2.7	0	R	√3	0	0	0.00	0.00	~
Integration Time	E.2.8	1.7	R	$\sqrt{3}$	0	0	0.00	0.00	×
RF ambient conditions-Noise	E.6.1	3	R	$\sqrt{3}$	0	0	0.00	0.00	×
RF ambient conditions-reflections	E.6.1	3	R	$\sqrt{3}$	0	0	0.00	0.00	×
Probe positioner mechanical tolerance	E.6.2	0.4	R	√3	1	1	0.37	0.37	×
Probe positioning with respect to phantom shell	E.6.3	6.7	R	√3	1	1	3.87	3.87	×
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	4	R	√3	0	0	0.00	0.00	×
System check source (dipole)	SO		G	0				. 61	
Deviation of experimental dipoles	E.6.4	2.0	Ν	1	1	1	2.00	2.00	0
Input power and SAR drift measurement	8,6.6.4	5.0	R	√3	1	1	2.89	2.89	•
Dipole axis to liquid distance	8,E.6.6	2.0	R	√3	1	1	1.15	1.15	×
Phantom and tissue parameters		50	C.	.C	8				. (
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	6.6	R	√3	1	1	3.81	3.81	8
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.90	1.60	×
Liquid conductivity measurement	E.3.3	4	N	1	0.78	0.71	3.12	2.84	Ν
_iquid permittivity measurement	E.3.3	5	N	1	0.23	0.26	1.15	1.30	N
iquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	×
iquid permittivity—temperature uncertainty	E.3.4	2.5	R	√3	0.23	0.26	0.33	0.38	×
Combined Standard Uncertainty	8		RSS			_	7.34	7.07	
Expanded Uncertainty (95% Confidence interval)	60	6	K=2	8		NC NC	14.67	14.14	

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System	Validation			ty- EX3DV		m / 10 gram			
a	b	c c	d d	е	f		h	i	k
uncertainty Component	Sec.	Tol	Prob.	f(d,k) Div.	Ci (1g)	g Ci (10g)	cxf/e 1g Ui	cxg/e 10g Ui	vi
Measurement System	000.	(±%)	Dist.	DIV.	Cr (rg)	Ci (Tog)	(±%)	(±%)	VI
	(R)				<u>B</u>	C		0	
Probe calibration	E.2.1	6.65	N	1	1	1	6.65	6.65	۰
Axial Isotropy	E.2.2	0.6	R	√3	1	1	0.35	0.35	¢
Hemispherical Isotropy	E.2.2	1.6	R	√3	0	0	0.00	0.00	C
Boundary effect	E.2.3	1	R	√3	1	1	0.58	0.58	c
Linearity	E.2.4	0.45	R	$\sqrt{3}$	1	1	0.26	0.26	c
System detection limits	E.2.4	1	R	√3 ⊚	1	1	0.58	0.58	c
Modulation response	E2.5	3.3	R	$\sqrt{3}$	0	0	0.00	0.00	ď
Readout Electronics	E.2.6	0.15	N	1	1	1	0.15	0.15	c
Response Time	E.2.7	0 @	R	√3	0	0	0.00	0.00	c
Integration Time	E.2.8	1.7	R	√3	0	0	0.00	0.00	G
RF ambient conditions-Noise	E.6.1	3	R	$\sqrt{3}$	1	1	1.73	1.73	
RF ambient conditions-reflections	E.6.1	3	R	$\sqrt{3}$	1	1	1.73	1.73	
Probe positioner mechanical tolerance	E.6.2	0.4	R	√3	1	9	0.23	0.23	-
Probe positioning with respect to phantom shell	E.6.3	6.7	R	√3	1	1	3.87	3.87	
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	4	R	√3	1	1	2.31	2.31	°
System check source (dipole)	0		G	8					
Deviation of experimental dipole from numerical dipole	E.6.4	5.0	N	61	1	1	5.00	5.00	
Input power and SAR drift measurement	8,6.6.4	5.0	R	√3	1	1	2.89	2.89	c
Dipole axis to liquid distance	8,E.6.6	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	¢
Phantom and tissue parameters			-			(0.			
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	6.6	R	√3	61	10	3.81	3.81	c
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	Ν	1	0 1	0.84	1.90	1.60	G
Liquid conductivity measurement	E.3.3	4	N	1	0.78	0.71	3.12	2.84	ľ
Liquid permittivity measurement	E.3.3	© 5	N	1	0.23	0.26	1.15	1.30	۰ N
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	√3	0.78	0.71	1.13	1.02	G
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	√3	0.23	0.26	0.33	0.38	c
Combined Standard Uncertainty			RSS			0	11.45	11.28	
Expanded Uncertainty (95% Confidence interval)	GU	e.C	K=2	0			22.89	22.55	

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12. CONDUCTED POWER MEASUREMENT

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
/laximum Power <1	>		8	No.
- 6	824.2	32.03	-9	23.03
GSM 850	836.6	32.12	-9	23.12
	848.8	32.37	-9	23.37
GPRS 850	824.2	31.98	-9	22.98
(1 Slot)	836.6	32.05	-9	23.05
	848.8	32.29	-9	23.29
GPRS 850	824.2	29.74	-6	23.74
(2 Slot)	836.6	29.69	-6	23.69
	848.8	29.81	-6	23.81
	824.2	27.85	-4.26	23.59
GPRS 850 (3 Slot)	836.6	27.80	-4.26	23.54
(3 301)	848.8	27.71	-4.26	23.45
	824.2	26.64	-3	23.64
GPRS 850 (4 Slot)	836.6	26.58	-3	23.58
	848.8	26.71	-3	23.71
1aximum Power <2	2>		C. 0	
) - C	824.2	31.53	-9	22.53
GSM 850	836.6	31.62	-9	22.62
	848.8	31.76	-9	22.76
0000.050	824.2	31.82	-9	22.82
GPRS 850 (1 Slot)	836.6	31.96	-9	22.96
	848.8	32.10	-9	23.10
	824.2	29.62	-6	23.62
GPRS 850 (2 Slot)	836.6	29.57	-6	23.57
	848.8	29.73	-6	23.73
GPRS 850 (3 Slot)	824.2	27.72	-4.26	23.46
	836.6	27.70	-4.26	23.44
	848.8	27.66	-4.26	23.40
	824.2	26.53	-3	23.53
GPRS 850	836.6	26.47	-3	23.47
(4 Slot)	848.8	26.65	-3	23.65

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GSM BAND CONTINUE

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <	>	8	No Co	- 6
Q	1850.2	27.48	-9	18.48
PCS1900	1880	27.55	-9	18.55
	1909.8	27.87	-9	18.87
CDDS1000	1850.2	27.48	-9	18.48
GPRS1900 (1 Slot)	1880	27.54	-9	18.54
	1909.8	27.80	-9	18.80
00004000	1850.2	26.47	-6	20.47
GPRS1900 (2 Slot)	1880	26.65	-6	20.65
	1909.8	26.72	-6	20.72
00004000	1850.2	25.64	-4.26	21.38
GPRS1900 (3 Slot)	1880	25.38	-4.26	21.12
(3 301)	1909.8	25.51	-4.26	21.25
0	1850.2	24.35	-3	21.35
GPRS1900 (4 Slot)	1880	24.42	-3	21.42
	1909.8	24.67	-3	21.67
Maximum Power <2	2>			0 -0
6	1850.2	27.20	-9	18.20
PCS1900	1880	27.26	-9	18.26
	1909.8	27.32	-9	18.32
00004000	1850.2	27.01	-9	18.01
GPRS1900 (1 Slot)	1880	27.13	-9	18.13
	1909.8	27.18	-9	18.18
00004000	1850.2	26.42	-6	20.42
GPRS1900 (2 Slot)	1880	26.50	-6	20.50
(2.500)	1909.8	26.65	-6	20.65
GPRS1900 (3 Slot)	1850.2	25.51	-4.26	21.25
	1880	25.22	-4.26	20.96
	1909.8	25.40	-4.26	21.14
0	1850.2	24.27	-3	21.27
GPRS1900	1880	24.31	-3	21.31
(4 Slot)	1909.8	24.52	-3	21.52

Note 1:

The Frame Power (Source-based time-averaged Power) is scaled the maximum burst average power based on time slots. The calculated methods are show as following:

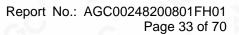
Frame Power = Max burst power (1 Up Slot) - 9 dB

Frame Power = Max burst power (2 Up Slot) - 6 dB

Frame Power = Max burst power (3 Up Slot) – 4.26 dB

Frame Power = Max burst power (4 Up Slot) - 3 dB

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UMTS BAND HSDPA Setup Configuration:

•The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.

•The RF path losses were compensated into the measurements.

A call was established between EUT and Based Station with following setting:

- (1) Set Gain Factors(β c and β d) parameters set according to each
- (2) Set RMC 12.2Kbps+HSDPA mode.
- (3) Set Cell Power=-86dBm
- (4) Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
- (5) Select HSDPA Uplink Parameters
- (6) Set Delta ACK, Delta NACK and Delta CQI=8
- (7) Set Ack Nack Repetition Factor to 3
- (8) Set CQI Feedback Cycle (k) to 4ms
- (9) Set CQI Repetition Factor to 2
- (10) Power Ctrl Mode=All Up bits

•The transmitted maximum output power was recorded.

Sub-test	βc (Note5)	βd	βd (SF)	βc/βd	βHS (Note1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15(Note 4)	15/15(Note 4)	64	12/15(Note 4)	24/15	1.0	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

Table C.10.2.4: β values for transmitter characteristics tests with HS-DPCCH

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

Note 2: 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 5.13.1A, and HSDPA EVM with phase discontinuity in clause

5.13.1AA, \triangle ACK and \triangle NACK = 30/15 with $\beta_{hs} = 30/15 * \beta_c$, and \triangle CQI = 24/15 with $\beta_{hs} = 24/15 * \beta_c$.

Note 3: CM = 1 for $\beta c/\beta d$ =12/15, hs/ c=24/15. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the c/d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to c = 11/15 and d = 15/15.

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HSUPA Setup Configuration:

• The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.

- The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting * :
- (1) Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
- (2) Set the Gain Factors (βc and βd) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
- (3) Set Cell Power = -86 dBm
- (4) Set Channel Type = 12.2k + HSPA
- (5) Set UE Target Power
- (6) Power Ctrl Mode= Alternating bits
- (7) Set and observe the E-TFCI

(8) Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI

· The transmitted maximum output power was recorded.

Sub- test	βc	βd	βd (SF)	βc/βd	βHS (Note 1)	βес	βed (Note 4) (Note 5)	βed (SF)	βed (Code s)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E-TF CI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/22 5	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	⊚2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	βed1: 47/15 βed2: 47/15	4 4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	◎ 17	71
5	15/15	0	<	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Note 1: For sub-test 1 to 4, \triangle ACK, \triangle NACK and \triangle CQI = 30/15 with $\beta_{hs} = 30/15 * \beta_c$. For sub-test 5, \triangle ACK, \triangle NACK and \triangle CQI = 5/15 with $\beta_{hs} = 5/15 * \beta_c$.

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

Note 3: For subtest 1 the c/ 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 c = 10/15 and d = 15/15. Note 4: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

Note 5: ßed cannot be set directly; it is set by Absolute Grant Value.

Note 6: For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly smaller MPR values.

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UMTS BAND II

Mode	Frequency (MHz)	Avg. Burst Power (dBm)		
	1852.4	21.77		
WCDMA 1900	1880	21.38		
RMC	1907.6	20.77		
	1852.4	21.11		
WCDMA 1900	1880	21.13		
AMR	1907.6	21.14		
	1852.4	21.69		
HSDPA	1880	21.46		
Subtest 1	1907.6	20.65		
	1852.4	20.02		
HSDPA	1880	19.73		
Subtest 2	1907.6	19.16		
	1852.4	19.92		
HSDPA	1880	19.72		
Subtest 3	1907.6	19.21		
	1852.4	19.91		
HSDPA	1880	19.66		
Subtest 4	1907.6	19.21		
	1852.4	19.67		
HSUPA	1880	19.36		
Subtest 1	1907.6	18.66		
	1852.4	18.49		
HSUPA	1880	18.23		
Subtest 2	1907.6	17.67		
	1852.4	19.13		
HSUPA	1880	18.90		
Subtest 3	1907.6	18.19		
	1852.4	19.56		
HSUPA	1880	19.40		
Subtest 4	1907.6	18.71		
	1852.4	19.15		
	1880	18.86		
Subtest 5	1907.6	18.15		

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UMTS BAND V

Mode	Frequency (MHz)	Avg. Burst Power (dBm)		
	826.4	21.72		
WCDMA 850	836.6	22.32		
RMC	846.6	21.24		
	826.4	21.11		
WCDMA 850	836.6	21.37		
AMR	846.6	21.28		
	826.4	21.66		
HSDPA	836.6	22.34		
Subtest 1	846.6	21.30		
	826.4	19.93		
HSDPA	836.6	20.54		
Subtest 2	846.6	19.52		
HODDA	826.4	19.89		
HSDPA	836.6	20.48		
Subtest 3	846.6	19.45		
	826.4	19.80		
HSDPA	836.6	20.50		
Subtest 4	846.6	19.41		
	826.4	19.55		
HSUPA	836.6	20.26		
Subtest 1	846.6	19.25		
	826.4	18.51		
HSUPA	836.6	19.15		
Subtest 2	846.6	18.13		
	826.4	19.06		
HSUPA	836.6	19.77		
Subtest 3	846.6	18.76		
	826.4	19.61		
HSUPA	836.6	20.10		
Subtest 4	846.6	19.24		
	826.4	19.19		
HSUPA	836.6	19.75		
Subtest 5	846.6	18.75		

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According to 3GPP 25.101 sub-clause 6.2.2, the maximum output power is allowed to be reduced by following the table.

Table 6.1aA: UE maximum output power with HS	S-DPCCH and E-DCH	
UE Transmit Channel Configuration	CM(db)	MPR(db)
For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH	0≤ CM≤3.5	MAX(CM-1,0)

Note: CM=1 for $\beta_0/\beta_d=12/15$, $\beta_{hs}/\beta_c=24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (a function of the combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH).

When E-DPDCH channels are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

The SW currently recalculates the cubic metric every time the beta gains on the E-DPDCH are reduced. The cubic metric will likely get lower each time this is done .However, there is no reported reduction of maximum output power in the HSUPA mode since the device also provides a compensation for the power back-off by increasing the gain of TX_AGC in the transceiver (PA) device.

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.

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Bluetooth_BR/EDR

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
	0	2402	5.479
GFSK	39	2441	6.142
	78	2480	6.353
<0 - C	0	2402	4.401
π /4-DQPSK	39	2441	5.046
•	78	2480	5.400
	0	2402	4.308
8-DPSK	39	2441	5.012
	78	2480	5.309

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13. TEST RESULTS

13.1. SAR Test Results Summary 13.1.1. Test position and configuration

Head SAR was performed with the device configured in the positions according to IEEE 1528-2013, Body-worn SAR was performed with the device 10mm from the phantom.

13.1.2. Operation Mode

- 1. Per KDB 447498 D01 v06 ,for each exposure position, if the highest 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional.
- 2. Per KDB 865664 D01 v01r04,for each frequency band, if the measured SAR is ≥0.8W/Kg, testing for repeated SAR measurement is required , that the highest measured SAR is only to be tested. When the SAR results are near the limit, the following procedures are required for each device to verify these types of SAR measurement related variation concerns by repeating the highest measured SAR configuration in each frequency band.
 - (1) When the original highest measured SAR is ≥ 0.8 W/Kg, repeat that measurement once.
 - (2) 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 \ge 1.45 W/Kg.
 - (3) Perform a third repeated measurement only if the original, first and second repeated measurement is ≥ 1.5 W/Kg and ratio of largest to smallest SAR for the original, first and second measurement is ≥ 1.20.
- 3. Body-worn exposure conditions are intended to voice call operations, therefore GSM voice call mode is selected to be test.
- 4. Per KDB 648474 D04 v01r03,when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤1.2W/Kg, SAR testing with a headset connected is not required.
- Maximum Scaling SAR in order to calculate the Maximum SAR values to test under the standard Peak Power, Calculation method is as follows: Maximum Scaling SAR =tested SAR (Max.) ×[maximum turn-up power (mw)/ maximum measurement output power(mw)]
- 6. Proximity sensor, just for avoiding the wrong operation in the phone screen when call, and has no influence on output power or SAR result

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13.1.3. Test Result

SAR MEASURE	MENT								
Depth of Liquid (cm):>15			Relative	e Humidit	y (%):52.1			
Product: Mobile I	Phone								
Test Mode: GSM	850 with GMSK	modul	ation						
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±0.2 dB)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
SIM 1 Card			3	- 6		8			G
Left Cheek	voice	190	836.6	-0.14	0.474	32.50	32.12	0.517	1.6
Left Tilt	voice	190	836.6	-0.08	0.105	32.50	32.12	0.115	⊚ 1.6
Right Cheek	voice	190	836.6	0.13	0.565	32.50	32.12	0.617	1.6
Right Tilt	voice	190	836.6	-0.10	0.105	32.50	32.12	0.115	1.6
Body back	voice	128	824.2	-0.12	0.625	32.50	32.03	0.696	1.6
Body back	voice	190	836.6	-0.15	0.822	32.50	32.12	0.897	1.6
Body back	voice	251	848.8	-0.07	1.01	32.50	32.37	1.041	1.6
Body front	voice	190	836.6	-0.10	0.459	32.50	32.12	0.501	1.6
6	C	3		N ^C		2		Ø	
Body back	GPRS-2 slot	128	824.2	-0.00	0.923	29.90	29.74	0.958	1.6
Body back	GPRS-2 slot	190	836.6	-0.07	1.3	29.90	29.69	1.364	1.6
Body back	GPRS-2 slot	251	848.8	0.10	1.41	29.90	29.81	1.440	1.6
Body front	GPRS-2 slot	190	836.6	-0.09	0.415	29.90	29.69	0.436	1.6
Body back+Ear.	GPRS-2 slot	128	824.2	-0.05	1.31	29.90	29.74	1.359	ୀ.6
Body back+Ear.	GPRS-2 slot	190	836.6	-0.02	1.35	29.90	29.69	1.417	1.6
Body back+Ear.	GPRS-2 slot	251	848.8	-0.19	1.38	29.90	29.81	1.409	1.6

Note:

When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
 The test separation for body back and body front is 10mm of all above table.

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SAR MEASU	REMENT								
Depth of Liqu				Relative	e Humidit	(%): 48.3			
Product: Mob	ile Phone								
Test Mode: P	CS1900 with GN	/ISK mo	dulation						
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±0.2 dB)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
SIM 1 Card			6		0				C.
Left Cheek	voice	661	1880.0	0.07	0.606	27.90	27.55	0.657	1.6
Left Tilt	voice	661	1880.0	-0.04	0.092	27.90	27.55	0.100	1.6
Right Cheek	voice	661	1880.0	0.00	0.461	27.90	27.55	0.500	◎ 1.6
Right Tilt	voice	661	1880.0	-0.08	0.089	27.90	27.55	0.096	1.6
Body back	voice	661	1880.0	0.18	0.306	27.90	27.55	0.332	1.6
Body front	voice	661	1880.0	-0.09	0.248	27.90	27.55	0.269	1.6
	20			R					
Body back	GPRS-4 slot	661	1880.0	0.12	0.370	24.70	24.42	0.395	1.6
Body front	GPRS-4 slot	661	1880.0	-0.08	0.339	24.70	24.42	0.362	1.6
Note:			1000						

Note:

When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
 The test separation for body back and body front is 10mm of all above table.

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SAR MEASUREMENT

Depth of Liquid (cm):>15

Relative Humidity (%): 48.3

Product: Mobile Phone

Test Mode: W	CDMA Band II with	N QPSK	modulati	on					
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±0.2 dB)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
Left Cheek	RMC 12.2kbps	9400	1880	-0.15	0.401	21.80	21.38	0.442	1.6
Left Tilt	RMC 12.2kbps	9400	1880	0.09	0.135	21.80	21.38	0.149	1.6
Right Cheek	RMC 12.2kbps	9400	1880	0.14	0.442	21.80	21.38	0.487	1.6
Right Tilt	RMC 12.2kbps	9400	1880	-0.15	0.119	21.80	21.38	0.131	◎ 1.6
Body back	RMC 12.2kbps	9400	1880	0.04	0.509	21.80	21.38	0.561	1.6
Body front	RMC 12.2kbps	9400	1880	-0.07	0.425	21.80 💿	21.38	0.468	1.6

Note:

When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
 The test separation for body back and body front is 10mm of all above table.

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SAR MEASUREMENT

Depth of Liquid (cm):>15

Relative Humidity (%):52.1

Product: Mobile Phone

Test Mode: W	CDMA Band V with	n QPSK	modulati	on					
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±0.2 dB)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
Left Cheek	RMC 12.2kbps	4183	836.6	0.10	0.314	22.40	22.32	0.320	1.6
Left Tilt	RMC 12.2kbps	4183	836.6	-0.03	0.070	22.40	22.32	0.071	1.6
Right Cheek	RMC 12.2kbps	4183	836.6	-0.01	0.334	22.40	22.32	0.340	1.6
Right Tilt	RMC 12.2kbps	4183	836.6	-0.13	0.150	22.40	22.32	0.153	◎ 1.6
Body back	RMC 12.2kbps	4183	836.6	-0.04	0.611	22.40	22.32	0.622	1.6
Body front	RMC 12.2kbps	4183	836.6	-0.14	0.408	22.40 💿	22.32	0.416	1.6

Note:

When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
 The test separation for body back and body front is 10mm of all above table.

Repeated \$	SAR									
Product: Mo	obile Phone									
Test Mode:	GSM850									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±0.2 dB)	Once SAR (1g) (W/kg)	Power Drift (<±0.2 dB)	Twice SAR (1g) (W/kg)	Power Drift (<±0.2 dB)	Third SAR (1g) (W/kg)	Limit (W/kg)
Body back	GPRS-2 slot	251	848.8	-0.03	1.37	-	®	ł		1.6

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Simultaneous Multi-band Transmission Evaluation: Application Simultaneous Transmission information:

NO	Simultanaoua atata	Portable Handset			
NO	Simultaneous state	Head	Body-worn		
1	GSM(voice)+Bluetooth(data)	Yes	Yes		
2	GSM (Data) + Bluetooth(data)	Yes	Yes		
3	WCDMA+Bluetooth(data)	Yes	Yes		

NOTE:

- 1. WIFI and BT share the same antenna, and cannot transmit simultaneously.
- 2. Simultaneous with every transmitter must be the same test position.
- 3. KDB 447498 D01, BT SAR is excluded as below table.
- 4. KDB 447498 D01, for handsets the test separation distance is determined by the smallest distance between the outer surface of the device and the user; which is 0mm for head SAR and 10mm for body-worn SAR.
- 5. According to KDB 447498 D01 4.3.1, Standalone SAR test exclusion is as follow:

For 100 MHz to 6 GHz and test separation distances \leq 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] • [$\sqrt{f(GHz)}$] ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR³⁰, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation³¹
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

- 6. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
- 7. According to KDB 447498 D01 4.3.2, simultaneous transmission SAR test exclusion is as follow:
 - (1) Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna.
 - (2) Any transmitters and antennas should be considered when calculating simultaneous mode.
 - (3) For mobile phone and PC, it's the sum of all transmitters and antennas at the same mode with same position in each applicable exposure condition
 - (4)When the standalone SAR test exclusion of section 4.3.2 is applied to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to the following to det

(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[$\sqrt{f(GHz)/x}$] W/kg for test separation distances \leq 50 mm; where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.

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8. When the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR to peak location separation ratio. The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion. The ratio is determined by (SAR1 + SAR2)1.5/Ri, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

Estimated SAR		Max Power inc Toler	luding Tune-up ance	Separation Distance (mm)	Estimated SAR (W/kg)
		dBm	mW		(VV/Kg)
BT		7	5.012	0	0.210
	Body	0 7	5.012	10	0.105

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RF Exposure	Test	Simultaneous Tra	Insmission Scenario	Σ1-g SAR	SPLSR
Conditions	Position	GSM 850	Bluetooth	(W/Kg)	(Yes/No)
	Left Touch	0.517	0.105	0.622	No
Head	Left Tilt	0.115	0.105	0.220	No
(voice)	Right Touch	0.617	0.105	0.722	No
	Right Tilt	0.115	0.105	0.220	No
Body-worn	Rear	1.041	0.105	1.146	No
(voice)	Front	0.501	0.105	0.606	No
Body-worn	Rear	1.440	0.105	1.545	No
(Data)	Front	0.436	0.105	0.541	No

Sum of the SAR for GSM 850 &Wi-Fi & BT:

Note:

•According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/Kg, SPLSR assessment is not required.

·SPLSR mean is "The SAR to Peak Location Separation Ratio "

RF Exposure	Test	Simultaneous Tra	nsmission Scenario	Σ1-g SAR	SPLSR
Conditions	Position	PCS1900	Bluetooth	(Ŵ/Kg)	(Yes/No)
	Left Touch	0.657	0.105	0.762	No
Head (voice)	Left Tilt	0.100	0.105	0.205	No
	Right Touch	0.500	0.105	0.605	No
	Right Tilt	0.096	0.105	0.201	No
Body-worn	Rear	0.332	0.105	0.437	No
(voice)	Front	0.269	0.105	0.374	No
Body-worn	Rear	0.395	0.105	0.500	No
(Data)	Front	0.362	0.105	0.467	No

Sum of the SAR for PCS1900 & Wi-Fi & BT:

Note:

 According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/Kg, SPLSR assessment is not required.

·SPLSR mean is "The SAR to Peak Location Separation Ratio

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Sum of the SAR for WCDMA Band II & Wi-Fi & BT:

RF Exposure	Test	Simultaneous Trans	mission Scenario	Σ1-g SAR	SPLSR	
Conditions	Position	WCDMA Band II	Bluetooth	(W/Kg)	(Yes/No)	
	Left Touch	0.442	0.105	0.547	No	
	Left Tilt	0.149	0.105	0.254	No	
Head	Right Touch	0.487	0.105	0.592	No	
	Right Tilt	0.131	0.105	0.236	No	
Body-worn	Rear	0.561	0.105	0.666	No	
	Front	0.468	0.105	0.573	No	

Note:

According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/Kg, SPLSR assessment is not required.

·SPLSR mean is "The SAR to Peak Location Separation Ratio "

Sum of the SAR for WCDMA Band V & Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR	SPLSR
		WCDMA Band V	Bluetooth	(W/Kg)	(Yes/No)
Head	Left Touch	0.320	0.105	0.425	No
	Left Tilt	0.071	0.105	0.176	No
	Right Touch	0.340	0.105	0.445	No
	Right Tilt	0.153	0.105	0.258	No
Body-worn	Rear	0.622	0.105	0.727	No
	Front	0.416	0.105	0.521	No

Note:

According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/Kg, SPLSR assessment is not required.

SPLSR mean is "The SAR to Peak Location Separation Ratio "

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APPENDIX A. SAR SYSTEM CHECK DATA

Date: Aug. 24,2020

Test Laboratory: AGC Lab System Check Head 835 MHz DUT: Dipole 835 MHz Type: SID 835

Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1; Frequency: 835 MHz; Medium parameters used: f = 835 MHz; σ =0.89 mho/m; ϵ r =42.20; ρ = 1000 kg/m³; Phantom section: Flat Section; Input Power=18dBm Ambient temperature (°C):20.8, Liquid temperature (°C): 20.5

DASY Configuration:

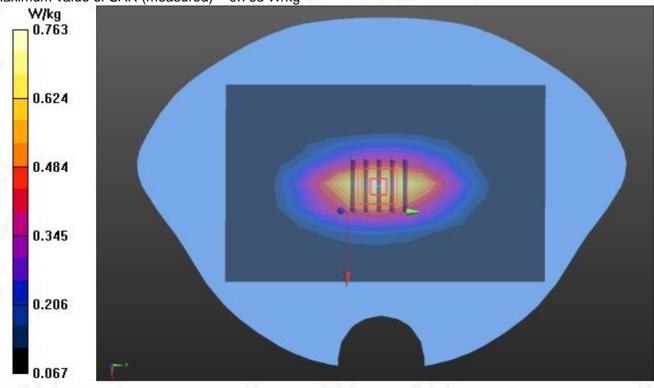
• Probe: EX3DV4 - SN:3953; ConvF(10.13, 10.13, 10.13); Calibrated: Jul. 29,2020;

- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/System Check Head 835MHz/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.761 W/kg

Configuration/System Check Head 835MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.739 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 0.935 W/kg SAR(1 g) = 0.623 W/kg; SAR(10 g) = 0.405 W/kg Maximum value of SAR (measured) = 0.763 W/kg



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Report No.: AGC00248200801FH01 Page 49 of 70

Date: Aug. 25,2020

Test Laboratory: AGC Lab System Check Head 1900MHz DUT: Dipole 1900 MHz; Type: SID 1900

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Frequency: 1900 MHz; Medium parameters used: f = 1900 MHz; σ =1.41 mho/m; ϵ r =38.61; ρ = 1000 kg/m³; Phantom section: Flat Section; Input Power=18dBm Ambient temperature (°C):21.2, Liquid temperature (°C): 20.9

DASY Configuration:

• Probe: EX3DV4 - SN:3953; ConvF(8.32, 8.32, 8.32); Calibrated: Jul. 29,2020;

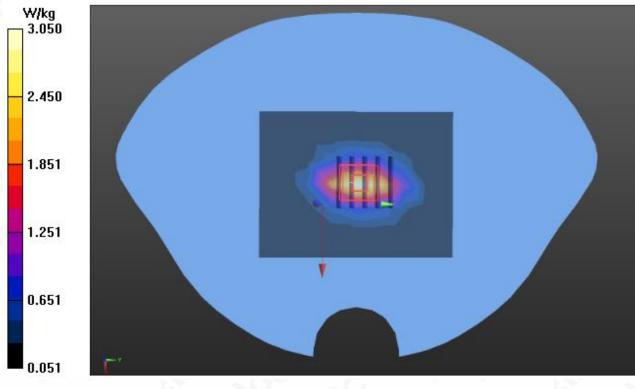
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/System Check Head 1900MHz/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 3.03 W/kg

Configuration/System Check Head 1900MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 47.536 V/m; Power Drift = -0.08 dB Peak SAR (extrapolated) = 4.48 W/kg SAR(1 g) = 2.48 W/kg; SAR(10 g) = 1.25 W/kg

Maximum value of SAR (measured) = 3.05 W/kg



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APPENDIX B. SAR MEASUREMENT DATA

Date: Aug. 24,2020

Test Laboratory: AGC Lab GSM 850 Mid-Touch-Right <SIM 1> DUT: Mobile Phone; Type: G3

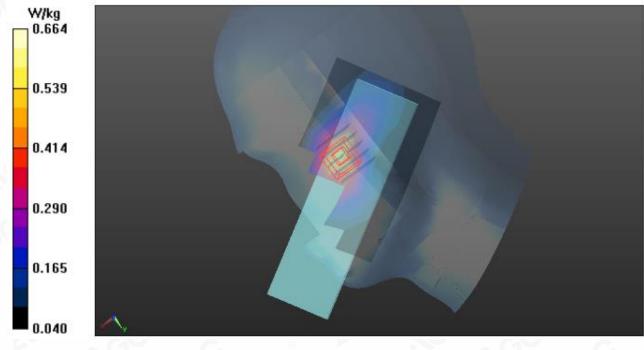
Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; σ =0.91 mho/m; ϵ r =41.93; ρ = 1000 kg/m³; Phantom section: Right Section Ambient temperature (°C):20.8, Liquid temperature (°C): 20.5

DASY Configuration:

- Probe: EX3DV4 SN:3953; ConvF(10.13, 10.13, 10.13); Calibrated: Jul. 29,2020;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

RIGHT HEAD/R-C/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.582 W/kg

RIGHT HEAD/R-C/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 13.123 V/m; Power Drift = 0.13 dB Peak SAR (extrapolated) = 0.877 W/kg SAR(1 g) = 0.565 W/kg; SAR(10 g) = 0.357 W/kg Maximum value of SAR (measured) = 0.664 W/kg



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Report No.: AGC00248200801FH01 Page 51 of 70

Date: Aug. 24,2020

Test Laboratory: AGC Lab GSM 850 High- Body- Back(MS)<SIM 1> DUT: Mobile Phone; Type: G3

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Frequency: 848.8 MHz; Medium parameters used: f = 835 MHz; σ =0.93 mho/m; ϵ r =41.56; ρ = 1000 kg/m³; Phantom section: Flat Section

Ambient temperature (°C):20.8, Liquid temperature (°C): 20.5

DASY Configuration:

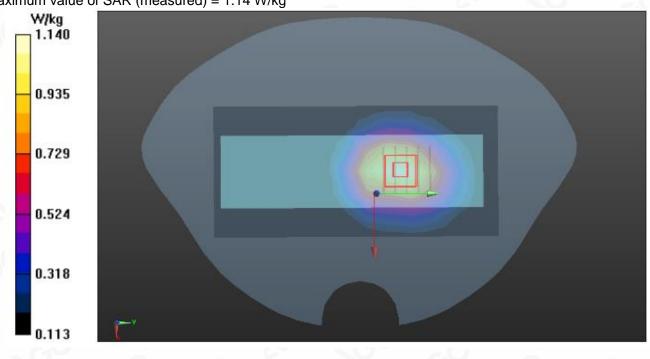
- Probe: EX3DV4 SN:3953; ConvF(10.13, 10.13, 10.13); Calibrated: Jul. 29,2020;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QDOVA002AA;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK-H/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.11 W/kg

BODY/BACK-H/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 30.336 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 1.38 W/kg

Peak SAR (extrapolated) = 1.30 VV/kg

SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.704 W/kg Maximum value of SAR (measured) = 1.14 W/kg



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Date: Aug. 24,2020

Test Laboratory: AGC Lab GPRS 850 High- Body- Back (2up) < SIM 1> DUT: Mobile Phone; Type: G3

Communication System: GPRS-2 Slot; Communication System Band: GSM 850; Duty Cycle: 1:4.2; Frequency: 848.8 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.93$ mho/m; $\epsilon r = 41.56$; $\rho = 1000$ kg/m³; Phantom section: Flat Section

Ambient temperature (°C):20.8, Liquid temperature (°C): 20.5

DASY Configuration:

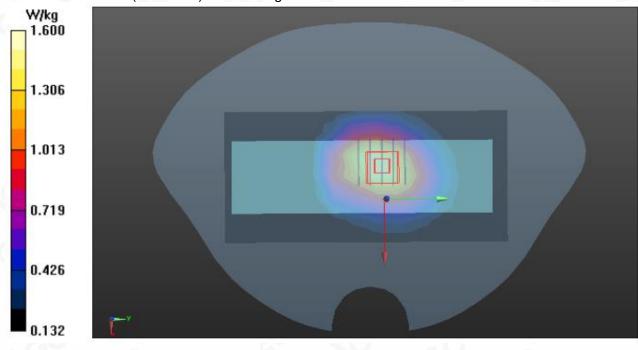
• Probe: EX3DV4 - SN:3953; ConvF(10.13, 10.13, 10.13); Calibrated: Jul. 29,2020;

- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QDOVA002AA;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/2ST-BACK-H/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.49 W/kg

BODY/2ST-BACK-H/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 40.382 V/m; Power Drift = 0.10 dB Peak SAR (extrapolated) = 1.95 W/kg

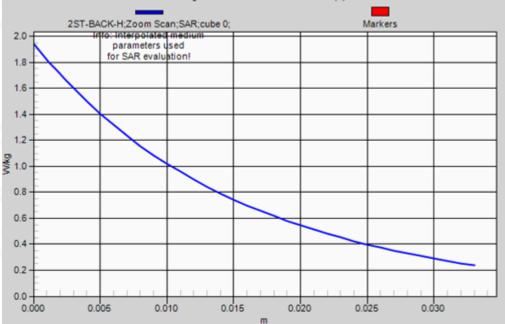
SAR(1 g) = 1.41 W/kg; SAR(10 g) = 0.981 W/kg Maximum value of SAR (measured) = 1.60 W/kg



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Interpolated Max SAR Z Line(z)

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Date: Aug. 25,2020

Test Laboratory: AGC Lab PCS 1900 Mid-Touch-Left <SIM 1> DUT: Mobile Phone; Type: G3

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ = 1.38 mho/m; ϵ r =39.24; ρ = 1000 kg/m³; Phantom section: Left Section

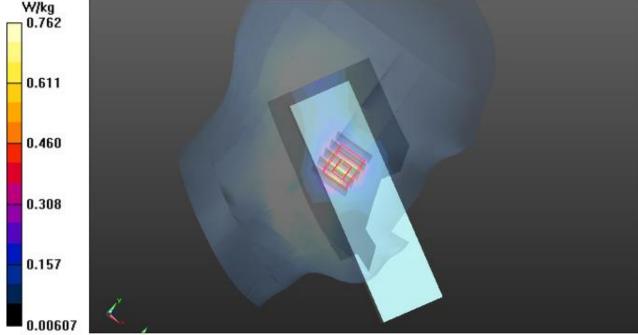
Ambient temperature (°C):21.2, Liquid temperature (°C): 20.9

DASY Configuration:

- Probe: EX3DV4 SN:3953; ConvF(8.32, 8.32, 8.32); Calibrated: Jul. 29,2020;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

LEFT HEAD/L-C/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.635 W/kg

LEFT HEAD/L-C/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.510 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 1.12 W/kg SAR(1 g) = 0.606 W/kg; SAR(10 g) = 0.319 W/kg Maximum value of SAR (measured) = 0.762 W/kg



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Date: Aug. 25,2020

Test Laboratory: AGC Lab PCS 1900 Mid-Body- Back(MS)<SIM 1> DUT: Mobile Phone; Type: G3

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ = 1.38 mho/m; ϵ r =39.24; ρ = 1000 kg/m³; Phantom section: Flat Section

Ambient temperature (°C):21.2, Liquid temperature (°C): 20.9

DASY Configuration:

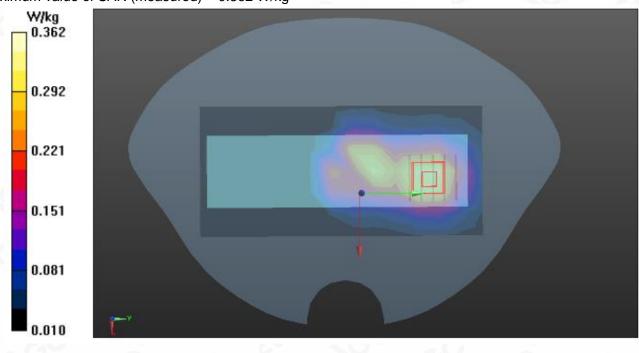
- Probe: EX3DV4 SN:3953; ConvF(8.32, 8.32, 8.32); Calibrated: Jul. 29,2020;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.325 W/kg

BODY/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.565 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.476 W/kg

SAR(1 g) = 0.306 W/kg; SAR(10 g) = 0.187 W/kg Maximum value of SAR (measured) = 0.362 W/kg



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Date: Aug. 25,2020

Test Laboratory: AGC Lab GPRS 1900 Mid-Body- Back (4up) < SIM 1> DUT: Mobile Phone; Type: G3

Communication System: GPRS-4 Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.1; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ = 1.38 mho/m; ϵ r =39.24; ρ = 1000 kg/m³; Phantom section: Flat Section

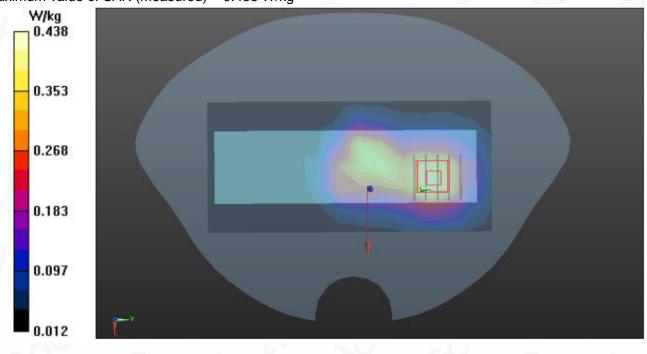
Ambient temperature (°C):21.2, Liquid temperature (°C): 20.9

DASY Configuration:

- Probe: EX3DV4 SN:3953; ConvF(8.32, 8.32, 8.32); Calibrated: Jul. 29,2020;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/4ST-BACK/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.404 W/kg

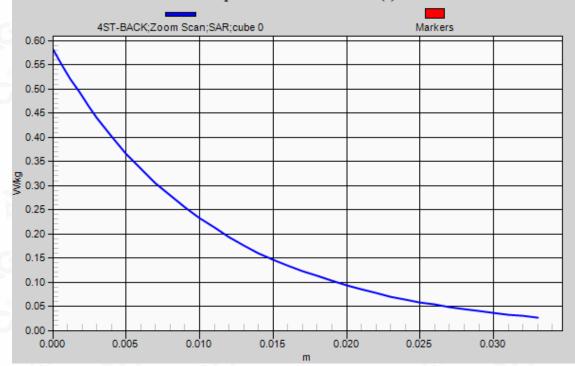
BODY/4ST-BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 13.554 V/m; Power Drift = 0.12 dB Peak SAR (extrapolated) = 0.581 W/kg SAR(1 g) = 0.370 W/kg; SAR(10 g) = 0.226 W/kg Maximum value of SAR (measured) = 0.438 W/kg



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Interpolated Max SAR Z Line(z)

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Date: Aug. 25,2020

Test Laboratory: AGC Lab WCDMA Band II Mid-Touch-Right DUT: Mobile Phone; Type: G3

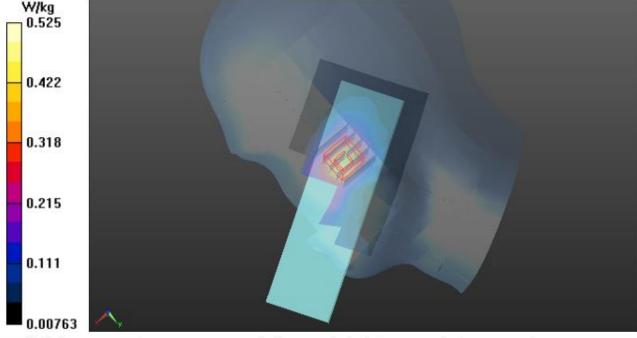
Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ = 1.38 mho/m; ϵ r =39.24; ρ = 1000 kg/m³; Phantom section: Right Section Ambient temperature (°C): 21.2, Liquid temperature (°C): 20.9

DASY Configuration:

- Probe: EX3DV4 SN:3953; ConvF(8.32, 8.32, 8.32); Calibrated: Jul. 29,2020;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

RIGHT HEAD/R-C/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.450 W/kg

RIGHT HEAD/R-C/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 4.189 V/m; Power Drift = 0.14 dB Peak SAR (extrapolated) = 0.680 W/kg SAR(1 g) = 0.442 W/kg; SAR(10 g) = 0.256 W/kg Maximum value of SAR (measured) = 0.525 W/kg



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Date: Aug. 25,2020

Test Laboratory: AGC Lab WCDMA Band II Mid -Body-Towards Grounds DUT: Mobile Phone; Type: G3

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ =1.38 mho/m; ϵ r =39.24; ρ = 1000 kg/m³ ; Phantom section: Flat Section Ambient temperature (°C): 21.2 Liquid temperature (°C): 20.9

Ambient temperature (°C):21.2, Liquid temperature (°C): 20.9

DASY Configuration:

- Probe: EX3DV4 SN:3953; ConvF(8.32, 8.32, 8.32); Calibrated: Jul. 29,2020;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.584 W/kg

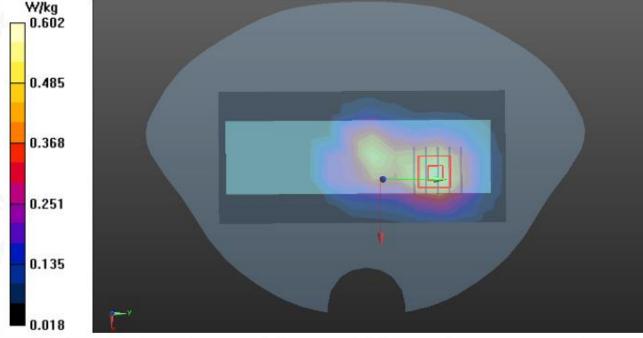
BODY/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.232 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.802 W/kg

SAR(1 g) = 0.509 W/kg; SAR(10 g) = 0.310 W/kg

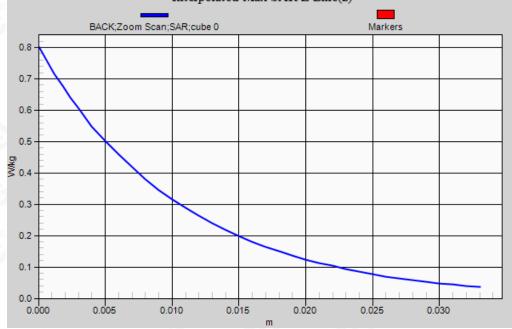




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Interpolated Max SAR Z Line(z)

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Date: Aug. 24,2020

Test Laboratory: AGC Lab WCDMA Band V Mid- Touch-Right DUT: Mobile Phone; Type: G3

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD;Duty Cycle:1:1; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; σ =0.91 mho/m; ϵ r =41.93; ρ = 1000 kg/m³; Phantom section: Right Section Ambient temperature (°C):20.8 Liquid temperature (°C): 20.5

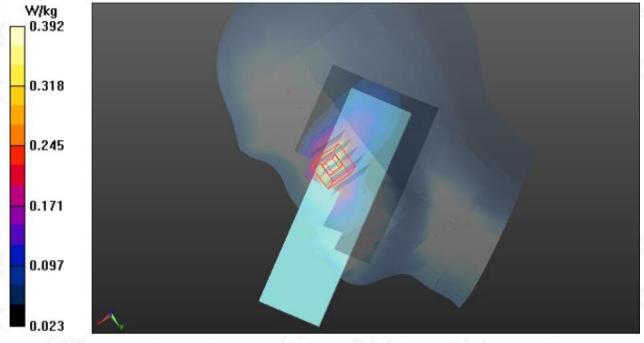
Ambient temperature (°C):20.8, Liquid temperature (°C): 20.5

DASY Configuration:

- Probe: EX3DV4 SN:3953; ConvF(10.13, 10.13, 10.13); Calibrated: Jul. 29,2020;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

RIGHT HEAD/R-C/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.399 W/kg

RIGHT HEAD/R-C/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.135 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 0.519 W/kg SAR(1 g) = 0.334 W/kg; SAR(10 g) = 0.211 W/kg Maximum value of SAR (measured) = 0.392 W/kg



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Date: Aug. 24,2020

Test Laboratory: AGC Lab WCDMA Band V Mid-Body-Towards Grounds DUT: Mobile Phone; Type: G3

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD;Duty Cycle:1:1; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; $\sigma=0.91 \text{ mho/m}$; $\epsilon r = 41.93$; $\rho= 1000 \text{ kg/m}^3$; Phantom section: Flat Section

Ambient temperature (°C):20.8, Liquid temperature (°C): 20.5

DASY Configuration:

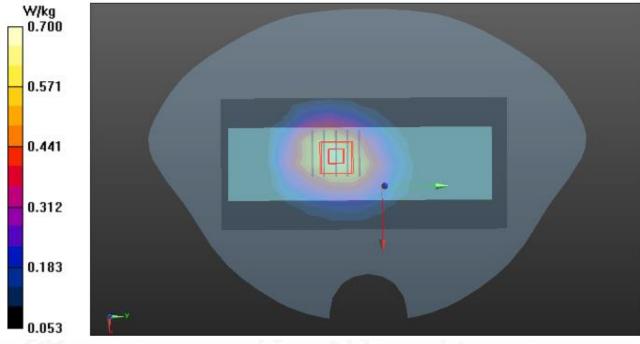
• Probe: EX3DV4 - SN:3953; ConvF(10.13, 10.13, 10.13); Calibrated: Jul. 29,2020;

- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.660 W/kg

BODY/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 23.234 V/m; Power Drift = -0.04 dB Peak SAR (extrapolated) = 0.856 W/kg SAR(1 g) = 0.611 W/kg; SAR(10 g) = 0.418 W/kg

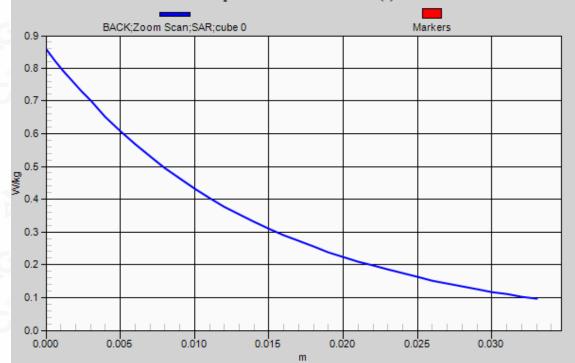
Maximum value of SAR (measured) = 0.700 W/kg



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Interpolated Max SAR Z Line(z)

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Date: Aug. 24,2020

Test Laboratory: AGC Lab GPRS 850 High- Body- Back (2up) < SIM 1> DUT: Mobile Phone; Type: G3

Communication System: GPRS-2 Slot; Communication System Band: GSM 850; Duty Cycle: 1:4.2; Frequency: 848.8 MHz; Medium parameters used: f = 835 MHz; σ =0.93 mho/m; ϵ r =41.56; ρ = 1000 kg/m³; Phantom section: Flat Section

Ambient temperature (°C):20.8, Liquid temperature (°C): 20.5

DASY Configuration:

- Probe: EX3DV4 SN:3953; ConvF(10.13, 10.13, 10.13); Calibrated: Jul. 29,2020;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QDOVA002AA;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

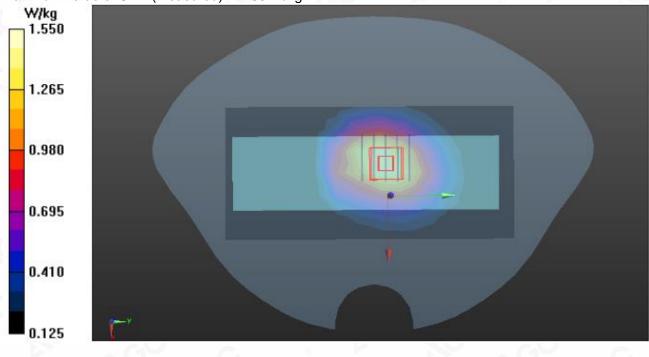
BODY/2ST-BACK-H-REPEATED/Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.47 W/kg

BODY/2ST-BACK-H-REPEATED/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 40.177 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 1.90 W/kg

SAR(1 g) = 1.37 W/kg; SAR(10 g) = 0.951 W/kg

Maximum value of SAR (measured) = 1.55 W/kg

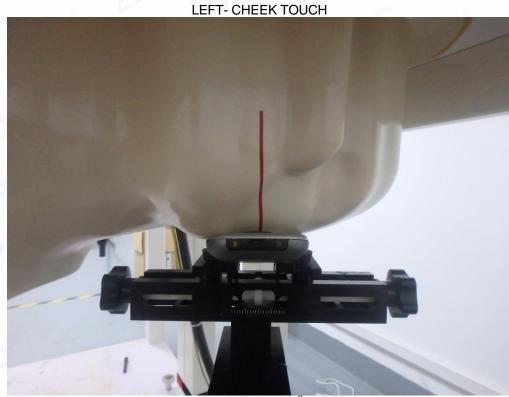


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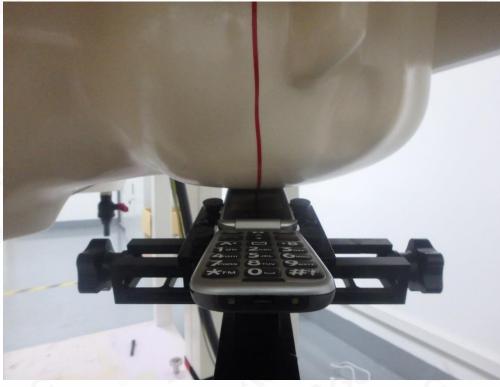


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APPENDIX C. TEST SETUP PHOTOGRAPHS



LEFT-TILT 15°

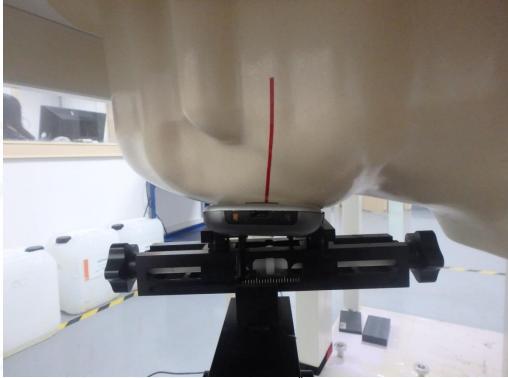


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RIGHT- CHEEK TOUCH



RIGHT-TILT 15[°]



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Body Back 10mm



Body Front 10mm



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Body Back with earphone 10mm



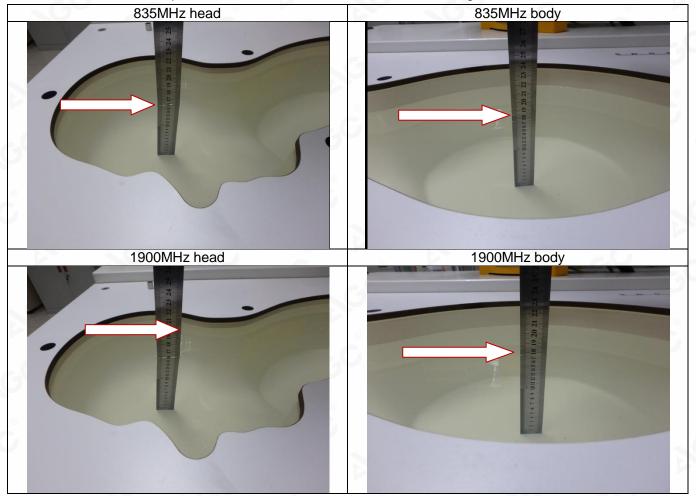
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written approver, and the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuerce of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



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DEPTH OF THE LIQUID IN THE PHANTOM—ZOOM IN

Note : The position used in the measurement were according to IEEE 1528-2013





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APPENDIX D. CALIBRATION DATA

Refer to Attached files.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the opening of the stand long of the sta



Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").

2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.

3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.

4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.

5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.

6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.

7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.

8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.

9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.

10. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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