

SAR Test Report

Report No.: AGC00008180310FH01

FCC ID : TW5GD7603

PRODUCT DESIGNATION: 720P Digital Color Video Baby Monitor with 5 inch HD LCD

BRAND NAME : N/A

MODEL NAME : GD7603

CLIENT: Shenzhen Gospell Smarthome Electronic Co., Ltd.

DATE OF ISSUE: June. 27, 2018

IEEE Std. 1528:2013

STANDARD(S) : FCC 47CFR § 2.1093

IEEE/ANSI C95.1:2005

REPORT VERSION : V1.1

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes	
V1.0	1 @ \$ 100 m	June. 21, 2018	Invalid	Initial Release	
V1.1	1 st	June. 27, 2018	Valid	Update the report,on page 16/21/31.	

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Applicant Name	Test Report Certification Shenzhen Gospell Smarthome Electronic Co., Ltd.
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Applicant Address	China
Manufacturer Name	Shenzhen Gospell Smarthome Electronic Co., Ltd.
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Product Designation	720P Digital Color Video Baby Monitor with 5 inch HD LCD
Brand Name	N/A
Model Name	GD7603
Different Description	N/A
EUT Voltage	DC 3.7V by battery
Annlinghia Otan dand	IEEE Std. 1528:2013
Applicable Standard	FCC 47CFR § 2.1093 IEEE/ANSI C95.1:2005
Test Date	June. 14, 2018
Report Template	AGCRT- US -2.4G/SAR (2018-01-01)

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

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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:

Exposure Position	Frequency Band(MHz)	Highest Reported 1g-SAR(W/Kg)
Body (without antenna pop-up)	2.4 GHz	1.474
Body (with antenna pop-up)	2.4 GHz	1.545

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 865664 D01 SAR Measurement 100MHz to 6GHz v01r04

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2. GENERAL INFORMATION

2.1. EUT Description

General Information	
Product Designation	720P Digital Color Video Baby Monitor with 5 inch HD LCD
Test Model	GD7603
Hardware Version	GD7603M03
Software Version	V15
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal antenna
2.4 GHz	
Operation Frequency	2410-2477MHz
Type of modulation	⊠GFSK □Π/4-DQPSK □8-DPSK
Peak Power	12.534dBm
Antenna Gain	3.0dBi
Accessories	The state of the s
Battery	Brand name: N/A Model No.: KPL624763 Voltage and Capacitance:3.7V 2000mAh
Adapter	Model No: FLYPOWER Brand name.: PS10E050K2000UU Input: AC 100-240V, 50/60Hz,0.35A; DC 5V,2A
Note:1. The sample used	for testing is end product.
Product	Type ***

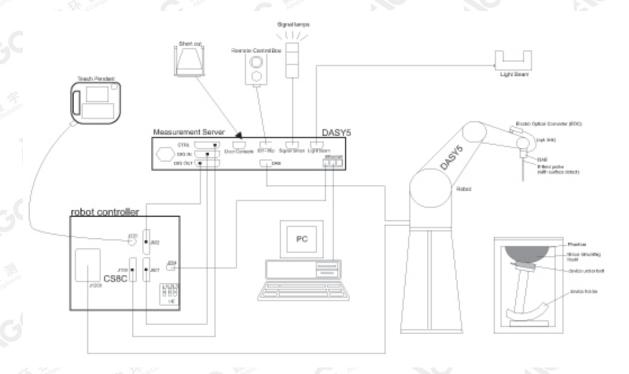
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3. SAR MEASUREMENT SYSTEM

3.1. The DASY5system 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 isaccomplished 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 and relevant KDB files.) Under ISO17025. The calibration data are in Appendix D.

Isotropic E-Field Probe Specification

Model	EX3DV4		
Manufacture	SPEAG	litte:	私
frequency	0.45GHz-3 GHz Linearity:±0.9%(k=2)(450MHz-3 GHz)		of Gloon
Dynamic Range	0.01W/Kg-100W/Kg Linearity:±0.9%(k=2)		
Dimensions	Overall length:337mm Tip diameter:2.5mm Typical distance from probe tip to dipole centers:1mm	3953 DODONA	
Application	High precision dosimetric measurements in any exposure scena (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 3 GHz with precision of 30%.		Authorition of Greek

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		
The Inputs	Symmetrical and floating	O COOL	2 D94 BM
O Manufactor CO Manufactor	GC BC		DAEA PW-SD 00 Made in Sv
Common mode rejection	above 80 dB		I Sun State of
A The state of the	The state of the s	Lane Control	

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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 metallicconstruction 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 withdifferent 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 changingthe 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. MeasurementServer

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 deviceholder positions are adjusted to the standard measurement positions in the threesections. A white cover is provided to tap the phantom during off-periods to prevent waterevaporation and changes in the liquid parameters. On the phantom top, three referencemarkers 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:

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

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

Where

SAR is the specific absorption rate in watts per kilogram;

E is the r.m.s. value of the electric field strength in the tissue in volts per meter;

σ is the conductivity of the tissue in siemens per metre;

ρ is the density of the tissue in kilograms per cubic metre;

ch is the heat capacity of the tissue in joules per kilogram and Kelvin;

 $\frac{dT}{dt}$ | 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 SATIMO 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

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	½·δ·ln(2) ± 0.5 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 measurement plane orientation, is smaller than to the measurement resolution must be ≤ the correst x or y dimension of the test device with at least of 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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Zoom Scan Parameters extracted from KDB865664 d01 SAR Measurement 100MHz to 6GHz

Maximum zoom scan spatial resolution: Δx _{Zoom} , Δy _{Zoom}			\leq 2 GHz: \leq 8 mm 2 – 3 GHz: \leq 5 mm [*]	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
	uniform ;	grid: Δz _{Zoom} (n)	3 - 4 GHz: ≤ 4 mm ≤ 5 mm 4 - 5 GHz: ≤ 3 mm 5 - 6 GHz: ≤ 2 mm	
Maximum zoom scan spatial resolution, normal to phantom surface	graded	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
	grid	id Δz _{Zoom} (n>1): between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

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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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.



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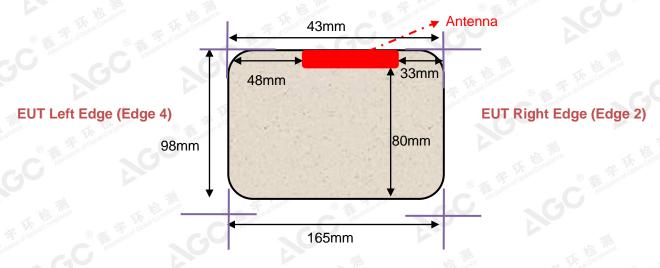
4.3. RF Exposure Conditions

Test Configuration and setting:

For WLAN testing, the EUT is configured with the WLAN continuous TX tool through engineering command

Antenna Location: (front view without antenna pop-up)

EUT Top Edge (Edge 1)



EUT Bottom Edge (Edge 3

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SAR Test Exclusion Consideration for Adjacent Edges

Per KDB 447498 D01 cl. 4.3.1:

a) For 100 MHz to 6 GHz and test separation distances ≤ 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)] • [√f(GHz)] ≤ 3.0

- b) For 100 MHz to 6 GHz and test separation distances > 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:
- 1) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance 50 mm)•(f(MHz)/150)]} mW, for 100 MHz to 1500 MHz
- 2) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance 50 mm)•10]} mW, for > 1500 MHz and ≤ 6 GHz

Please refer to SAR test set-up photoe for details.

2.4GHz

Edge 2(Right)

SAR test exclusion threshold

- = [(min. test separation distance, mm) 3]/√f(GHz)
- $=(33 \times 3)/\sqrt{2.41}$
- = 63.77 mW

Edge 3(Bottom)

SAR test exclusion threshold

- = (Power allowed at numeric threshold for 50 mm in step 1)+(test separation distance 50 mm) x 10 mW
- = 96.62+ (80-50) x 10 mW
- = 396.62 mW.

Edge 4(Left)

SAR test exclusion threshold

- = [(min. test separation distance, mm) 3]/√f(GHz)
- $=(48 \times 3)/\sqrt{2.41}$
- = 92.76mW

Conclusion

Since the Maximum Tune-up Power [17.923mW(12.534dBm)] is less than the SAR Exclusion Threshold for bottom, Right and left edges, SAR evaluation for these adjacent edges are not required.

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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 5% are listed in 5.2

5.1. The composition of the tissue simulating liquid

Ingredient (% Weight) Frequency (MHz)	Water	Nacl	Polysorbate 20	DGBE	1,2 Propanediol	Triton X-100
2450 Body	70	1	0.0	9 8	0.0	20

5.2. Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEEE 1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in IEEE 1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in IEEE 1528.

	"[]"]	" " " " Clo		
Target Frequency	h	ead		body
(MHz)	εr	σ (S/m)	εr	σ (S/m)
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	1.01	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800 – 2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73

($\varepsilon r = relative permittivity, \sigma = conductivity and \rho = 1000 kg/m3)$

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5.3. Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using DASY5

Dielectric Probe Kit and R&S Network Analyzer ZVL6.

		Tissue Stimulant M	easurement for 2450MHz		
20		Dielectric Pa	Tissu	8) The Foliaball	
一	Fr. (MHz)	er52.7(50.065-55.335)	δ[s/m]1.95(1.8525-2.0475)	e Temp [oC]	Test time
Body	2410	54.26	1.87		
	2441	53.71	1.89	24 5	luna 14 2010
	2450	53.07	1.90	21.5	June. 14, 2018
	2477	52.44	1.95	NOU.	CO

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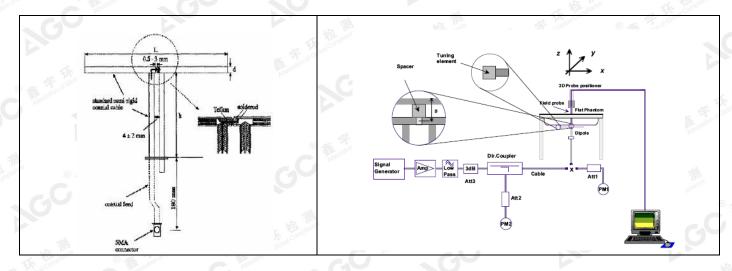
6. SAR SYSTEM CHECK PROCEDURE

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.

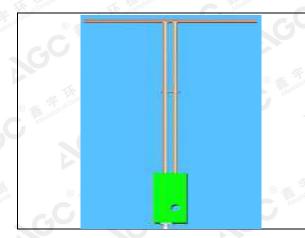


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6.2. SAR System Check 6.2.1. Dipoles



The dipoles used are based on the IEEE 1528 standard, the table below provides details for the mechanical and electrical specifications for the dipoles.

Frequency	L (mm)	h (mm)	d (mm)
2450MHz	51.5	30.4	3.6

6.2.2. System Check Result

System Per	formanc	e Check a	t 2450MHz for B	ody					
Validation I	Kit: SN 29	9/15DIP 20	G450-393						
Frequency Va		rget (W/Kg)	and a	ce Result 0%)	Normalized to 1W(W/Kg)		Tissue Temp.	Test time	
[MHz]	1g	10g	1g	10g	1g	10g	[°Cj		
2450	49.92	23.16	44.928-54.912	20.844-25.476	54.52	25.36	21.5	June. 14, 2018	

Note:

- (1) We use a CW signal of 18dBm for system check, and then all SAR value are normalized to 1W forward power. The result must be within $\pm 10\%$ of target value.
- (2) Tested normalized SAR (W/kg) = Tested SAR (W/kg) ×[1000/ 10^1.8]

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6.3. SAR System Validation

The SAR measurement system was validated according to procedures in KDB 865664 D01.

SAR probe and tissue dielectric parameters are as shown bellow.

er at prope and accept diciocate parameters are accitemn belieff											142 1 co
						CI	V validation	Mod. validation			
Test Data	Probe	Tested Freq.	Tissue	Cond.	Perm		Drobo	Drobo	Mod	Duty	Peak to
1631 Data	S/N	(MHz)	Туре	Coria.	Sens	Sensitivity	Probe Linearity	Probe Isotropy	Mod. Type	Duty Factor	average
		, ,							. , , ,	. 6.0.0	ratio
06/12/2018	3953	2450	body	1.90	52.63	PASS	PASS	PASS	OFDM	N/A	PASS
06/12/2018	3953	2450	body	1.90	52.63	PASS	PASS	PASS	FHSS	PASS	N/A
06/12/2018	3953	2450	head	1.80	38.51	PASS	PASS	PASS	OFDM	N/A	PASS
06/12/2018	3953	2450	head	1.80	38.51	PASS	PASS	PASS	GFSK	PASS	N/A

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7. EUT TEST POSITION

This EUT was tested in Back upward, Face upward, Left edge, Right edge and Bottom edge.

7.1. Body Worn Position

- (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 0mm.

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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	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District, Shenzhen 518012
NVLAP Lab Code	600153-0
Designation Number	CN5028
Test Firm Registration Number	682566
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0

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10. TEST EQUIPMENT LIST

Equipment description	description Model		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	Aug. 31,2017	Aug. 30,2018
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	Feb. 08,2018	Feb. 07,2019
SAR Software	Speag-DASY5	DASY52.8	- N/A	N/A
Liquid	SATIMO	-	N/A	N/A
Dipole	SATIMO SID 2450	SN 29/15 DIP 2G450-393	July 05,2016	July 04,2019
Signal Generator	Agilent-E4438C	US41461365	Mar. 01,2018	Feb. 28,2019
Vector Analyzer	Agilent / E4440A	US41421290	Mar. 01,2018	Feb. 28,2019
Network Analyzer	Rhode & Schwarz ZVL6	SN100132	Mar. 01,2018	Feb. 28,2019
Attenuator	Warison /WATT-6SR1211	N/A	N/A	N/A
Attenuator	Mini-circuits / VAT-10+	N/A	N/A	N/A
Amplifier	EM30180	SN060552	Mar. 01,2018	Feb. 28,2019
Directional Couple	Werlatone/ C5571-10	SN99463	June 12,2018	June 11,2019
Directional Couple	Werlatone/ C6026-10	SN99482	June 12,2018	June 11,2019
Power Sensor	NRP-Z21	1137.6000.02	Oct. 12,2017	Oct. 11,2018
Power Sensor	NRP-Z23	US38261498	Mar. 01,2018	Feb. 28,2019
Power Viewer	R&S	V2.3.1.0	N/A	N/A

Note: Per KDB 865664Dipole 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

Moosure		ASY U				m / 10 ar	am		
				e	over 1 gra		h	i	
a	b	Tol	d Prob.	f(d,k)	f	Ci	c×f/e	c×g/e 10g Ui	k
Uncertainty Component	Sec.	(±%)	Dist.	Div.	Ci (1g)	(10g)	(±%)	(±%)	vi
Measurement System		五环	Combing	The dom	pliar	F Glopal Cou.		Attestation .	
Probe calibration	E.2.1	6.05	N	station of 1	1	1	6.05	6.05	~
Axial Isotropy	E.2.2	0.6	R	$\sqrt{3}$	√0.5	√0.5	0.24	0.24	~
Hemispherical Isotropy	E.2.2	1.6	R	$\sqrt{3}$	√0.5	√0.5	0.65	0.65	~
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	0.58	0.58	~
Linearity	E.2.4	0.45	R	$\sqrt{3}$	1 Global Control	® 1	0.26	0.26	~
System detection limits	E.2.4	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	~
Modulation response 调制响应	E2.5	3.3	R	√3	1	1	1.91	1.91	×
Readout Electronics	E.2.6	0.15	N	1	1	The Manual Co	0.15	0.15	~
Response Time	E.2.7	0	R	$\sqrt{3}$	® 15 310	of Globe 1	O Jalion of	0	~
Integration Time	E.2.8	1.7 😸	R	√3	1 Attes	1	0.98	0.98	~
RF ambient conditions-Noise	E.6.1	3.0	R	√3	1	1	1.73	1.73	~
RF ambient conditions-reflections	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	×.
Probe positioner mechanical tolerance	E.6.2	0.4	R	√3	A muliance 1	® \$1\$ ation of	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	1	1	2.31	2.31	~
Test sample Related	-111		N. N.	ompliance	FK hear	bliging	® # Jajion of GI)p ₂₀ , (8)	THE STATE OF
Test sample positioning	E.4.2	2.9	N	184	station of 1	1	2.90	2.90	~
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	Omp.
SAR scaling	E.6.5	5	R	$\sqrt{3}$	Mance 1	The Comp	2.89	2.89	~
Phantom and tissue parameters		K Kil Compliance		F F of Global Co	® 450	ation of Globa	a.C	Alle	C
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	6.6	R	√3		1	3.81	3.81	~
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1. 1	0.84	1.90	1.60	o constant
Liquid conductivity measurement	E.3.3	4	N	1 4	0.78	0.71	3.12	2.84	N
Liquid permittivity measurement	E.3.3	5	N	1	0.23	0.26	1.15	1.30	N
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	√3	0.78	0.71	1.13	1.02	×
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	√3	0.23	0.26	0.33	0.38	~
Combined Standard Uncertainty	1	Compliance	RSS	and Compiler.	(B) Altestal	(00)	11.473	11.303	
Expanded Uncertainty (95% Confidence interval)	Miles ballon of Co	1600	K=2			NC	22.946	22.606	

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		ASY L		_					
System C	heck und I	ertainty fo	or Dipole	averaged e		am / 10 gra 	m. h	· ;	
a	b	С	d	f(d,k)	f	g	$c \times f/e$	$c \times g/e$	k
Uncertainty Component	Sec.	Tol (±%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (±%)	10g Ui (±%)	vi
Measurement System			LE FILL			1/2 FM	90	F Global C	OLULY.
Probe calibration drift	E.2.1	0.5	N Strooms	11 to	1	E That company	0.5	0.5	∞
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	1.0	R	$\sqrt{3}$	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	1.0	R	$\sqrt{3}$	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	1	0	0	0.00	0.00	~
Response Time	E.2.7	0	R	$\sqrt{3}$	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	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	~
RF ambient conditions-reflections	E.6.1	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	~
Probe positioner mechanical tolerance	E.6.2	0.4	R	$\sqrt{3}$	1	1	0.37	0.37	~
Probe positioning with respect to phantom shell	E.6.3	6.7	₩R	$\sqrt{3}$	mpilance 1	1 3	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)	0		0			all.		W AM	
Deviation of experimental dipoles	E.6.4	2.0	N	7 1	1 個	ance 1	2.00	2.00	~
Input power and SAR drift measurement	8,6.6.4	5.0	R	$\sqrt{3}$	F 100 100 100 1	1	2.89	2.89	×
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)						*	17 TH
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	6.6	R	$\sqrt{3}$	1	1点	3.81	3.81	ow.
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	F 1 Hobar Co	1° %	0.84	1.90	1.60	×
Liquid conductivity measurement	E.3.3	4	N	1	0.78	0.71	3.12	2.84	N
Liquid permittivity measurement	E.3.3	5	N	1	0.23	0.26	1.15	1.30	N
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	√3	0.78	0.71	1.13	1.02	Alestation &
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	~
Combined Standard Uncertainty		Alle	RSS			lim	7.344	7.076	
Expanded Uncertainty (95% Confidence interval)			K=2	liji;		The Compliance	14.689	14.153	

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O atau Wa				ainty- 1					
System Va				e average		jram / 10 g 	ram. h	i	Ι.
a	b	С	d	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			ALL THE		litte:	42 A	50	F Global C	OLIVE
Probe calibration	E.2.1	6.05	N M	11 100 m	o ^{l ance} 1	E That company	6.05	6.05	~
Axial Isotropy	E.2.2	0.6	R	$\sqrt{3}$	1 🌯	y dion of 1	0.35	0.35	~
Hemispherical Isotropy	E.2.2	1.6	R	$\sqrt{3}$	0	0	0.00	0.00	~
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	8
Linearity	E.2.4	0.45	R	$\sqrt{3}$	12 1	1	0.26	0.26	~
System detection limits	E.2.4	1.0	R	$\sqrt{3}$	1 1	® 15 F	0.58	0.58	∞
Modulation response	E2.5	3.3	R	$\sqrt{3}$	0	0	0.00	0.00	8
Readout Electronics	E.2.6	0.15	N	7	1	1	0.15	0.15	∞
Response Time	E.2.7	0	R	$\sqrt{3}$	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	3.0	R	√3	® 1 mestalic	1	1.73	1.73	~
RF ambient conditions-reflections	E.6.1	3.0	R	$\sqrt{3}$	U 1	10)	1.73	1.73	~
Probe positioner mechanical tolerance	E.6.2	0.4	R	$\sqrt{3}$	1	1	0.37	0.37	A C
Probe positioning with respect to phantom shell	E.6.3	6.7	₩ R	√3	muliance 1	(C) ## 14 10 10 10 10 10 10 10 10 10 10 10 10 10	3.87	3.87	~
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5 ®	4	R	√3	10	1	2.31	2.31	~
System check source (dipole)			6			-di		W. TILL	
Deviation of experimental dipole from numerical dipole	E.6.4	5.0	N	Julianos 1	1.检	(anco 1	5.00	5.00	«
Input power and SAR drift measurement	8,6.6.4	5.0	R	$\sqrt{3}$	A lestation of 1	1	2.89	2.89	~
Dipole axis to liquid distance	8,E.6.6	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	~
Phantom and tissue parameters					-ASS		N.	瓜	Compliance
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	6.6	R	√3	my 1	IN THE COMPANY	3.81	3.81	~
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N° %	A Lessation of Cious	C.C	0.84	1.90	1.60	~
Liquid conductivity measurement	E.3.3	4	N	1	0.78	0.71	3.12	2.84	N
Liquid permittivity measurement	E.3.3	5	N	1	0.23	0.26	1.15	1.30	N
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	×
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	~
Combined Standard Uncertainty	-0		RSS				11.113	10.938	
Expanded Uncertainty (95% Confidence interval)		TIME -	K=2	**************************************		* Chopal Complian	22.226	21.876	

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12. CONDUCTED POWER MEASUREMENT

2.4GHz

Mode	Channel	Frequency (MHz)	Maximum Peak Power (dBm)
Global Co	CH00	2410	12.534
GFSK Modulation	CH10	2441	11.784
	CH22	2477	11.264

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13. TEST RESULTS

13.1. SAR Test Results Summary

13.1.1. Test position and configuration

Body SAR was performed with the device 0mm from the phantom.

13.1.2. Operation Mode

output power(mw)]

- 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 ≥0.8W/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 ≥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.
- 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

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13.1.3. SAR Test Results Summary

SAR MEASUREMENT

Depth of Liquid (cm):>15 Relative Humidity (%): 53.3

Product: 720P Digital Color Video Baby Monitor with 5 inch HD LCD

Test Mode: 2.4G with GFSK modulation

Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±0.2dB)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR(1g) (W/Kg)	Limit(1g) (W/kg)
without anter	na pop-u	р				G		~11	16
Body back	GFSK	CH00	2410	0.18	1.32	12.534	12.534	1.320	1.6
Body back	GFSK	CH10	2441	-0.30	1.1	12.534	11.784	1.307	1.6
Body back	GFSK	CH22	2477	-0.02	1.1	12.534	11.264	1.474	1.6
Body front	GFSK	CH10	2441	0.05	0.033	12.534	11.784	0.039	1.6
Edge 1 (Top)	GFSK	CH10	2441	-0.00	0.604	12.534	11.784	0.718	1.6
with antenna	pop-up			litte	ATT.	22.5	Y Complian	- F Global Com	- C
Body back	GFSK	CH00	2410	-0.02	1.41	12.534	12.534	1.410	1.6
Body back	GFSK	CH10	2441	-0.03	1.30	12.534	11.784	1.545	1.6
Body back	GFSK	CH22	2477	-0.01	1.15	12.534	11.264	1.541	1.6
Body front	GFSK	CH10	2441	0.02	0.114	12.534	11.784	0.135	1.6

Note:

- (1). When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- (2). The test separation of all above table is 0mm.
- (3). Plots are only shown for the bold markered worst case SAR results

Repeated S

Product: 720P Digital Color Video Baby Monitor with 5 inch HD LCD

Test Mode: 2.4G with GFSK modulation

Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±0.2dB)	Once SAR (1g) (W/kg)	Power Drift (<±0.2dB)	Twice SAR (1g) (W/kg)	Power Drift (<±0.2dB)	Third SAR (1g) (W/kg)	Limit(1g) (W/kg)
Body back	GFSK	CH00	2410	-0.02	1.37	The Mile Compilar	- 43	obal Comin	Allestation	1.6
Body back	GFSK	CH00	2410	0.01	1.37	estation of Gio	Allestation of Allest	- 0	9	1.6

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APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab Date: June. 14, 2018

System Check Body 2450 MHz DUT: Dipole 2450 MHz Type: D2450

Communication System: CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:3;

Frequency: 2450 MHz; Medium parameters used: f = 2450 MHz; $\sigma = 1.90$ mho/m; $\epsilon r = 53.07$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature ($^{\circ}$): 22.0, Liquid temperature ($^{\circ}$): 21.5

DASY Configuration:

Probe: EX3DV4 – SN:3953; ConvF(7.73, 7.73, 7.73); Calibrated:Aug. 31,2017;

• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0

• Electronics: DAE4 Sn1398; Calibrated: Feb. 08, 2018

• 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 Body 2450MHz /Area Scan (7x12x1): Measurement grid: dx=10mm, dy=10mm

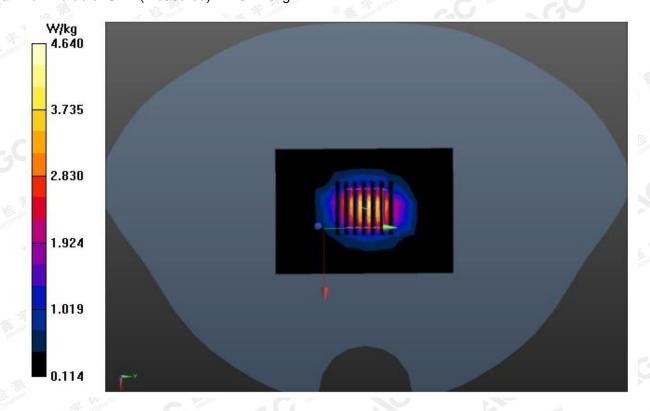
Maximum value of SAR (measured) = 4.41 W/kg

Configuration/System Check Body 2450MHz /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 37.702 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 7.12 W/kg

SAR(1 g) = 3.44 W/kg; SAR(10 g) = 1.60 W/kg Maximum value of SAR (measured) = 4.64 W/kg



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APPENDIX B. SAR MEASUREMENT DATA

EUT without antenna pop-up

Test Laboratory: AGC Lab Date: June. 14, 2018

2.4G Low-Body-Worn- Back

DUT: 720P Digital Color Video Baby Monitor with 5 inch HD LCD; Type: GD7603

Communication System: 2.4G; Communication System Band: 2.4G; Duty Cycle: 1:3;

Frequency: 2410 MHz; Medium parameters used: f = 2450 MHz; $\sigma = 1.87$ mho/m; $\epsilon r = 54.26$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$):22.0, Liquid temperature ($^{\circ}$): 21.5

DASY Configuration:

- Probe: EX3DV4 SN:3953; ConvF(7.73, 7.73, 7.73); Calibrated:Aug. 31,2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn1398; Calibrated: Feb. 08, 2018
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK-L/Area Scan (13x20x1): Measurement grid: dx=10mm, dy=10mm

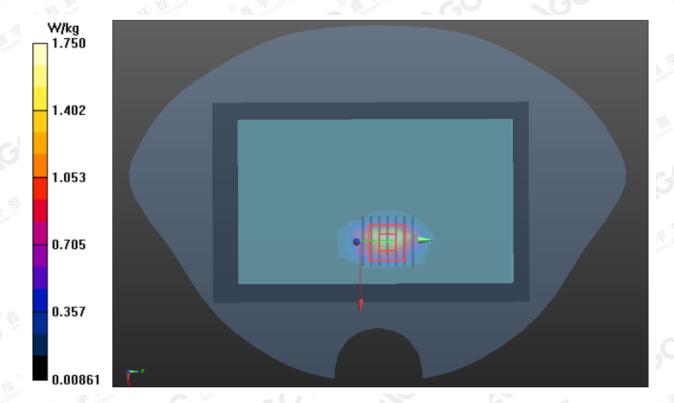
Maximum value of SAR (measured) = 1.81 W/kg

BODY/BACK-L/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.199 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 2.74 W/kg

SAR(1 g) = 1.32 W/kg; SAR(10 g) = 0.585 W/kg Maximum value of SAR (measured) = 1.75 W/kg



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Test Laboratory: AGC Lab Date: June. 14, 2018

2.4G High-Body-Worn- Back

DUT: 720P Digital Color Video Baby Monitor with 5 inch HD LCD; Type: GD7603

Communication System: 2.4G; Communication System Band: 2.4G; Duty Cycle: 1:3;

Frequency: 2477 MHz; Medium parameters used: f = 2450 MHz; $\sigma = 1.95 \text{ mho/m}$; $\epsilon r = 52.44$; $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$):22.0, Liquid temperature ($^{\circ}$): 21.5

DASY Configuration:

- Probe: EX3DV4 SN:3953; ConvF(7.73, 7.73, 7.73); Calibrated:Aug. 31,2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn1398; Calibrated: Feb. 08, 2018
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK-H/Area Scan (13x20x1): Measurement grid: dx=10mm, dy=10mm

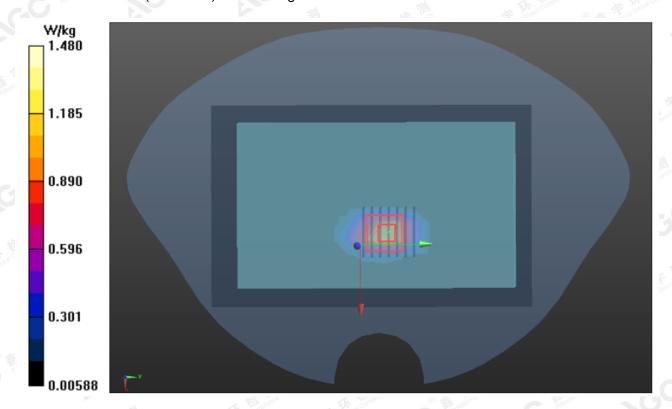
Maximum value of SAR (measured) = 1.16 W/kg

BODY/BACK-H/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.296 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 2.35 W/kg

SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.477 W/kg Maximum value of SAR (measured) = 1.48 W/kg



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EUT with antenna pop-up

Test Laboratory: AGC Lab Date: June. 14, 2018

2.4G Low-Body-Worn- Back

DUT: 720P Digital Color Video Baby Monitor with 5 inch HD LCD; Type: GD7603

Communication System: 2.4G; Communication System Band: 2.4G; Duty Cycle: 1:3;

Frequency: 2410 MHz; Medium parameters used: f = 2450 MHz; $\sigma = 1.87$ mho/m; $\epsilon r = 54.26$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$):22.0, Liquid temperature ($^{\circ}$): 21.5

DASY Configuration:

Probe: EX3DV4 – SN:3953; ConvF(7.73, 7.73, 7.73); Calibrated:Aug. 31,2017;

• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0

• Electronics: DAE4 Sn1398; Calibrated: Feb. 08, 2018

Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;

• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

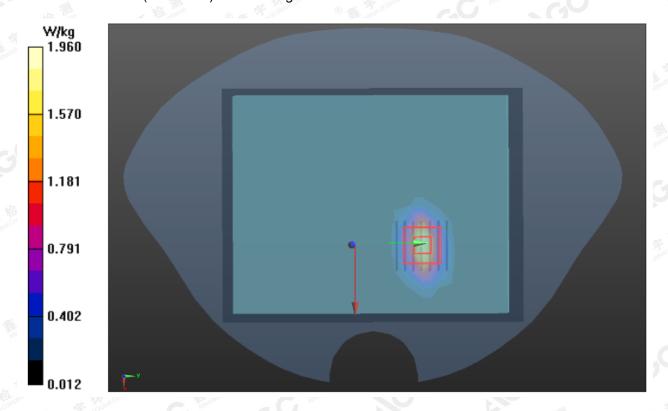
BODY/BACK-L/Area Scan (15x19x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 1.93 W/kg

BODY/BACK-L/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.881 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 3.08 W/kg

SAR(1 g) = 1.41 W/kg; SAR(10 g) = 0.664 W/kg Maximum value of SAR (measured) = 1.96 W/kg



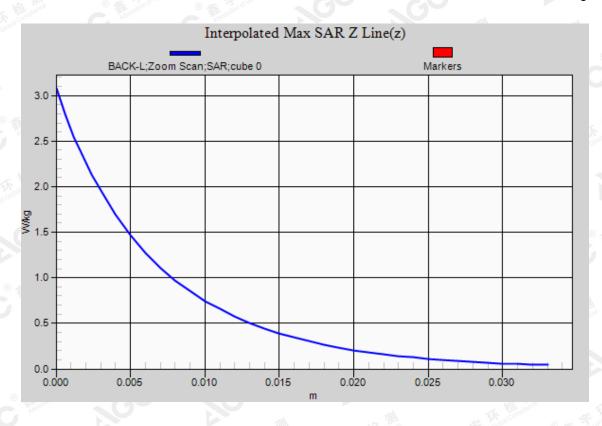
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Test Laboratory: AGC Lab Date: June. 14, 2018

2.4G Mid-Body-Worn- Back

DUT: 720P Digital Color Video Baby Monitor with 5 inch HD LCD; Type: GD7603

Communication System: 2.4G; Communication System Band: 2.4G; Duty Cycle: 1:3;

Frequency: 2441 MHz; Medium parameters used: f = 2450 MHz; $\sigma = 1.89$ mho/m; $\epsilon r = 53.71$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$):22.0, Liquid temperature ($^{\circ}$): 21.5

DASY Configuration:

- Probe: EX3DV4 SN:3953; ConvF(7.73, 7.73, 7.73); Calibrated:Aug. 31,2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn1398; Calibrated: Feb. 08, 2018
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

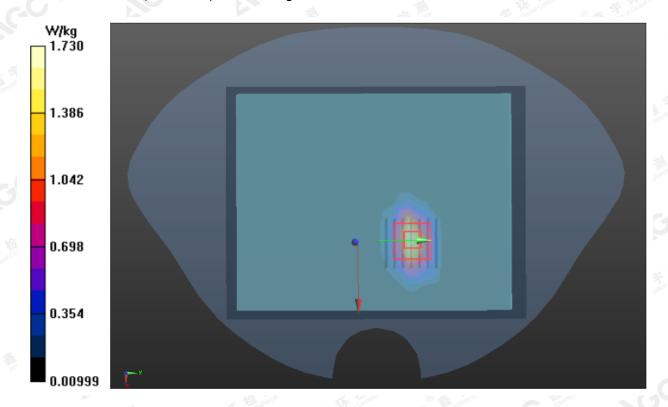
BODY 2/BACK/Area Scan (15x19x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 1.66 W/kg

BODY 2/BACK/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.813 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 2.78 W/kg

SAR(1 g) = 1.3 W/kg; SAR(10 g) = 0.584 W/kg Maximum value of SAR (measured) = 1.73 W/kg



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Repeated:

Test Laboratory: AGC Lab Date: June. 14, 2018

2.4G Low-Body-Worn- Back (once)

DUT: 720P Digital Color Video Baby Monitor with 5 inch HD LCD; Type: GD7603

Communication System: 2.4G; Communication System Band: 2.4G; Duty Cycle: 1:3;

Frequency: 2410 MHz; Medium parameters used: f = 2450 MHz; $\sigma = 1.87$ mho/m; $\epsilon r = 54.26$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$):22.0, Liquid temperature ($^{\circ}$): 21.5

DASY Configuration:

- Probe: EX3DV4 SN:3953; ConvF(7.73, 7.73, 7.73); Calibrated:Aug. 31,2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn1398; Calibrated: Feb. 08, 2018
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK-L-REPEATED-1/Area Scan (15x19x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.60 W/kg

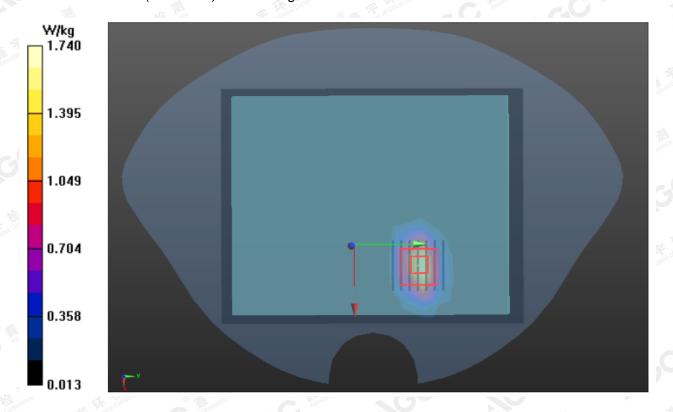
BODY/BACK-L-REPEATED-1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.332 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 2.71 W/kg

SAR(1 g) = 1.37 W/kg; SAR(10 g) = 0.602 W/kg

Maximum value of SAR (measured) = 1.74 W/kg



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Test Laboratory: AGC Lab Date: June. 14, 2018

2.4G Low-Body-Worn- Back (twice)

DUT: 720P Digital Color Video Baby Monitor with 5 inch HD LCD; Type: GD7603

Communication System: 2.4G; Communication System Band: 2.4G; Duty Cycle: 1:3;

Frequency: 2410 MHz; Medium parameters used: f = 2450 MHz; $\sigma = 1.87$ mho/m; $\epsilon r = 54.26$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$):22.0, Liquid temperature ($^{\circ}$): 21.5

DASY Configuration:

- Probe: EX3DV4 SN:3953; ConvF(7.73, 7.73, 7.73); Calibrated:Aug. 31,2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn1398; Calibrated: Feb. 08, 2018
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

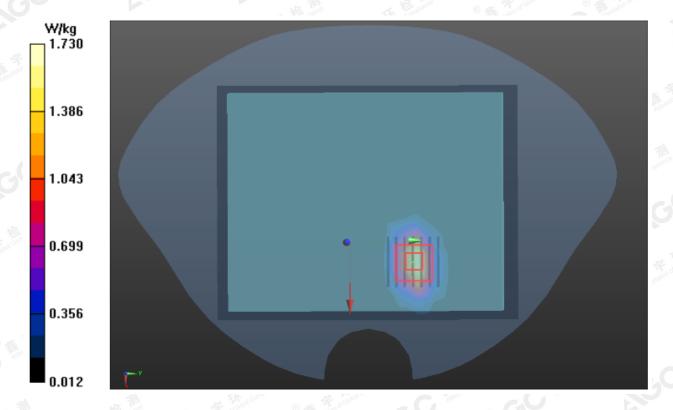
BODY/BACK-L-REPEATED-2/Area Scan (15x19x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 1.60 W/kg

BODY/BACK-L-REPEATED-2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.205 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 2.70 W/kg

SAR(1 g) = 1.37 W/kg; SAR(10 g) = 0.601 W/kg Maximum value of SAR (measured) = 1.73 W/kg



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APPENDIX C. TEST SETUP PHOTOGRAPHS

Back upward 0mm (without antenna pop-up)



Front upward 0mm (without antenna pop-up)



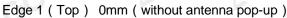
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Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com @ 400 089 2118 Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China



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Back upward 0mm (with antenna pop-up)



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Tel: +86-755 2908 1955

Fax: +86-755 2600 8484

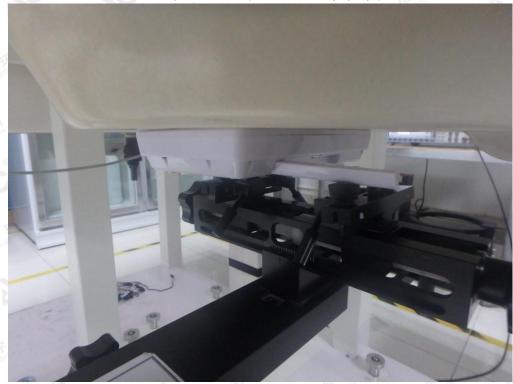
E-mail: agc@agc-cert.com

6 400 089 2118



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Front upward 0mm (with antenna pop-up)



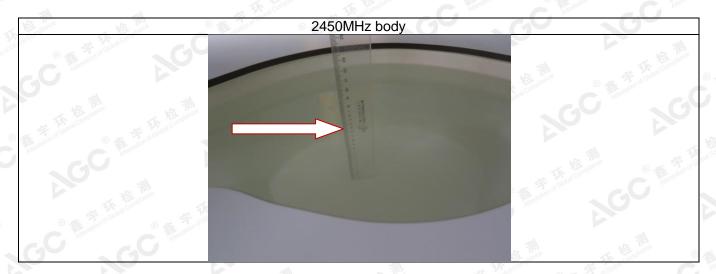
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DEPTH OF THE LIQUID IN THE PHANTOM—ZOOM IN

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



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APPENDIX D. CALIBRATION DATA

Refer to Attached files.

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