

SAR Test Report

Report No.: AGC01662181003FH01

2AF2R-HB178RX FCC ID

APPLICATION PURPOSE **Original Equipment**

PRODUCT DESIGNATION Digital Audio Baby Monitor

BRAND NAME HelloBaby

MODEL NAME HB178RX

CLIENT Shenzhen Videotimes Technology Co., Ltd.

DATE OF ISSUE Oct. 12,2018

IEEE Std. 1528:2013

FCC 47CFR § 2.1093 STANDARD(S)

IEEE/ANSI C95.1:2005

REPORT VERSION

Attestation of Global Compliance(Shenzhen) Co., Ltd.

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Report Revise Record

Report Version Revise Time		Issued Date	Valid Version	Notes
V1.0	ince (8 milestellored)	Oct. 12,2018	Valid	Initial Release

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	Test Report
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Manufacturer Name	Shenzhen Videotimes Technology Co., Ltd.
Manufacturer Address	Room 601, Building B, Union Financial Building, No. 1 Shihua Road, Fubac Street, Futian Free Trade Zone, Shenzhen, Guangdong, China
Product Designation	Digital Audio Baby Monitor
Brand Name	HelloBaby
Model Name	HB178RX
Different Description	N/A OF THE PARTY O
EUT Voltage	DC6.0V
Applicable Standard	IEEE Std. 1528:2013 FCC 47CFR § 2.1093 IEEE/ANSI C95.1:2005
Test Date	Oct. 12,2018
Report Template	AGCRT-US-1.9G/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)
sti iii	Body	1924.992	0.043

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 100 MHz to 6 GHz v01r04

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2. GENERAL INFORMATION

2.1. EUT Description

General Information	
Product Designation	Digital Audio Baby Monitor
Test Model	HB178RX
Hardware Version	N/A Signature Si
Software Version	N/A
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
1.9 GHz	
TX Frequency Range	1921.536~1928.448MHz
Peak Power	18.11dBm
Battery	Voltage: 6 V

Note: The sample used for testing is end product.

Dun du CA Allestation	Type	- 1	Kil poliance	The Compliance
Product	Production unit	Identic	al Prototype	(8) The son of Glove

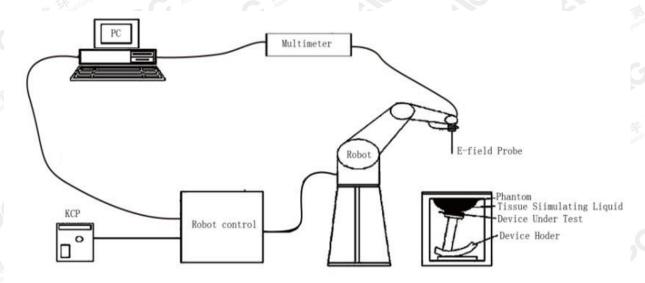
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3. SAR MEASUREMENT SYSTEM

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



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

- The PC. It controls most of the bench devices and stores measurement data. A computer running WinXP and the Opensar software.
- The E-Field probe. The probe is a 3-axis system made of 3 distinct dipoles. Each dipole returns a voltage in function of the ambient electric field.
- The Keithley multimeter measures each probe dipole voltages.
- The SAM phantom simulates a human head. The measurement of the electric field is made inside the phantom.
- The liquids simulate the dielectric properties of the human head tissues.
- The network emulator controls the mobile phone under test.
- The validation dipoles are used to measure a reference SAR. They are used to periodically check the bench to make sure that there is no drift of the system characteristics over time.
- •The phantom, the device holder and other accessories according to the targeted measurement.

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3.2. COMOSAR E-Field Probe

The SAR measurement is conducted with the dosimetric probe manufactured by SATIMO. 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. SATIMO conducts the probe calibration in compliance with international and national standards (e.g. IEEE 1528 and relevant KDB files.) The calibration data are in Appendix D.

Isotropic E-Field Probe Specification

Model	SSE5		71	K.1
Manufacture	MVG	LIM: A	E TOO	of Globs
Identification No.	SN 22/12 EP159	The Compilario	Z Monal Count	Altestation
Frequency	0.45GHz-3GHz Linearity:±0.11dB(0.45GHz-3GHz)	5	XIII)	
Dynamic Range	0.01W/Kg-100W/Kg Linearity:±0.11dB			
Dimensions	Overall length:330mm Length of individual dipoles:4.5mm Maximum external diameter:8mm Probe Tip external diameter:5mm Distance between dipoles/ probe extremity:2.7mm			
Application	High precision dosimetric measurements in a (e.g., very strong gradient fields). Only probe compliance testing for frequencies up to 3 G 30%.	which enables		1111 Julius

3.3. Robot

The COMOSAR system uses the KUKA robot from SATIMO SA (France). For the 6-axis controller COMOSAR system, the KUKA robot controller version from SATIMO 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



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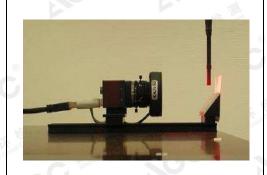
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3.4. Video Positioning System

The video positioning system is used in OpenSAR to check the probe. Which is composed of a camera, LED, mirror and mechanical parts. The camera is piloted by the main computer with firewire link.

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 probe, the same position will be reached with another aligned probe within 0.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position.

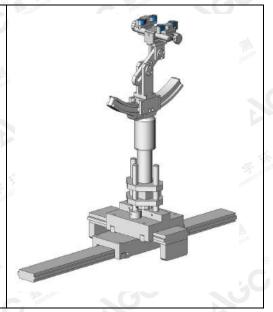


3.5. Device Holder

The COMOSAR 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 COMOSAR device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity

 $\epsilon r = 3$ and loss tangent $\delta = 0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



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3.6. 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.

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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 (p). 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 o measurement plane orientation the measurement resolution r x or y dimension of the test d measurement point on the tes	on, is smaller than the above, nust be ≤ the corresponding evice with at least one

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

			* The Table Co.		
Maximum zoom scan s	patial reso	lution: Δx _{Zoom} , Δy _{Zoom}	\leq 2 GHz: \leq 8 mm 2 – 3 GHz: \leq 5 mm [*]	3 – 4 GHz: ≤ 5 mm [*] 4 – 6 GHz: ≤ 4 mm [*]	
	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm	
Maximum zoom scan spatial resolution, normal to phantom surface	graded	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm	
	grid $\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$			
Minimum zoom scan volume	n scan 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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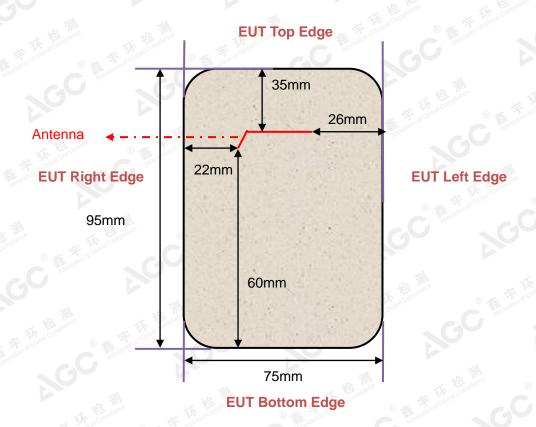
4.3. RF Exposure Conditions

Test Configuration and setting:

The EUT is a model of DECT. For DECT SAR testing, the device was controlled through software to set fixed frequency, and then connected with RTX2012.

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 5% are listed in 4.2

5.1. The composition of the tissue simulating liquid

Ingredient (% Weight) Frequency (MHz)	Water	Nacl	Polysorbate 20	DGBE	1,2 Propanediol	Triton X-100
1900 Body	70	1	0.0	y 61000 9 @	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.

Target Frequency	he	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 SATIMO

Dielectric Probe Kit and R&S Network Analyzer ZVL6.

		Tissue Stimulant Me	easurement for 1900MHz		
60	Fr.	Dielectric Par	ameters (±5%)	Tissue	The Chapter of Chapter
*	(MHz)	er53.30(50.635-55.965)	δ[s/m]1.52(1.444-1.596)	Temp [oC]	Test time
Body	1900	54.26	1.48		
Attestation A	1921.536	53.71	1.51	21.6	Oct. 12,2018
- (1924.992	53.15	1.53	21.0	Oct. 12,2016
	1928.448	52.49	1.55	on of Global Co	-C

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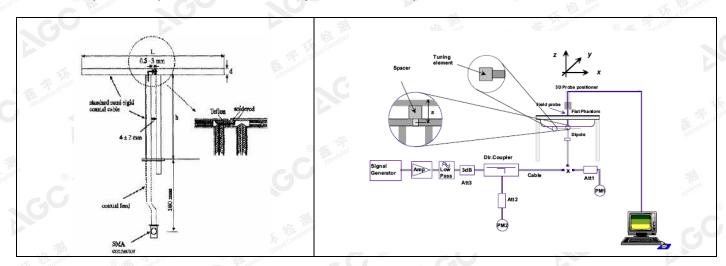
6. SAR SYSTEM CHECK PROCEDURE

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 SATIMO system is equipped with one or more system check kits. These units, together with the predefined measurement procedures within the SATIMO 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.

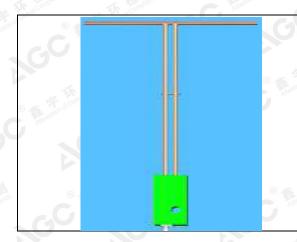


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6.2. SAR System Check 6.2.1. Dipoles



The dipoles used is based on the IEEE-1528 standard, and is complied with mechanical and electrical specifications in line with the requirements of IEEE. the table below provides details for the mechanical and electrical Specifications for the dipoles.

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

6.2.2. System Check Result

System Perf	formance	Check a	t 1900MHz					
Validation K	(it: SN 29	/15 DIP 10	G900-389					
Frequency Value(W/Kg)		0		ce Result 0%)		sted (W/Kg)	Tissue Temp.	Test time
[MHz]	1g	10g	1g	10g	1g	10g	[°C]	Allestall
1900 Body	39.38	20.86	35.442-43.318	18.774-22.946	41.02	20.58	21.6	Oct. 12,2018

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 ±10% of target value.

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7. EUT TEST POSITION

This EUT was tested in Body back, Body front, Edge1 Edge2 and Edge4

7.1. Test 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

SAR assessments have been made in line with the requirements of IEEE-1528, and comply with ANSI/IEEE C95.1-2005 "Uncontrolled Environments" limits. These limits apply to a location which is deemed as "Uncontrolled Environment" which can be described as a situation where the general public may be exposed to an RF source with no prior knowledge or control over their exposure.

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 B112-B113, 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	Manufacturer/ Model	Identification No.	Current calibration date	Next calibration date
SAR Probe	MVG	SN 22/12 EP159	Aug. 08,2018	Aug. 07,2019
Phantom	SATIMO	SN_4511_SAM90	Validated. No cal required.	Validated. No cal required.
Liquid	SATIMO	环检测 - 环核	Validated. No cal required.	Validated. No cal required.
Comm Tester	Agilent-8960	GB46310822	Mar. 01,2018	Feb. 28,2019
Multimeter	Keithley 2000	1188656	Mar. 01,2018	Feb. 28,2019
Dipole	SATIMO SID1900	SN 29/15 DIP 1G900-389	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 12,2017	June 11,2019
Directional Couple	Werlatone/ C6026-10	SN99482	June 12,2017	June 11,2019
Power Sensor	NRP-Z21	1137.6000.02	Sep. 20,2018	Sep. 19,2019
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 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

Measu	irement u	ncertainty fo	or Dipole a	averaged o	ver 1 gram	/ 10 gram.			
a 測	b	C (C)	d	e f(d,k)	Cf Alles	g	h cxf/e	i c×g/e	k
Uncertainty Component	Sec.	Tol (± %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (±%)	10g Ui (±%)	vi
Measurement System			litte:		all.	W. A.	,	II IN DO	ombine
Probe calibration	E.2.1	5.831	N	1 板板	1	15 Acomplian	5.83	5.83	8
Axial Isotropy	E.2.2	0.579	R 🛚 🐔	$\sqrt{3}$	√0.5	√0.5	0.24	0.24	8
Hemispherical Isotropy	E.2.2	0.813	R	$\sqrt{3}$	√0.5	√0.5	0.33	0.33	00
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	00
Linearity	E.2.4	1.26	R	$\sqrt{3}$	1 Kampilan	1	0.73	0.73	00
System detection limits	E.2.4	1.0	R	$\sqrt{3}$	1011 Globa	1 Steeland	0.58	0.58	8
Modulation response	E2.5	3.0	R	$\sqrt{3}$	1 . 6	1	1.73	1.73	œ
Readout Electronics	E.2.6	0.021	N	1	1	1	0.021	0.021	00
Response Time	E.2.7	0	R	$\sqrt{3}$	1	1 Kinglianos	0	0	8
Integration Time	E.2.8	1.4	R	√3	18 無 等	1	0.81	0.81	00
RF ambient conditions-Noise	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	00
RF ambient conditions-reflections	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	00
Probe positioner mechanical tolerance	E.6.2	1.4	R	√3	1,0	1 4 5	0.81	0.81	oo
Probe positioning with respect to phantom shell	E.6.3	1.4	R	√3	1	Allestation of	0.81	0.81	00
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.3	R	√3	1	1	1.33	1.33	_∞
Test sample Related			,D	-100	一板	aliance Alini	玉	apai Compila	_ 5
Test sample positioning	E.4.2	2.6	N	1	The local Control	1	2.6	2.6	00
Device holder uncertainty	E.4.1	3	station N	1	lestation 1	1	3	3	00
Output power variation—SAR drift measurement	E.2.9	5	R	√3	1	1	2.89	2.89	o
SAR scaling	E.6.5	5	R	$\sqrt{3}$	<u> </u>	1,5	2.89	2.89	8
Phantom and tissue parameters		4/21 - 1/11/2 - 1/11/		一天 TE	pplance	The Global Comp.		Attestation	
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	√3		station of	2.31	2.31	00
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	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	М
Liquid permittivity measurement	E.3.3	5	N	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	00
Combined Standard Uncertainty		45 - TILL	RSS	KE plance	0 44	of Global	9.807	9.608	
Expanded Uncertainty (95% Confidence interval)	罗罗	Mod Compile	K=2	33100	C Miles	\ G	19.614	19.216	

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System	Validation	uncertainty	for Dipol	e averaged	d over 1 gra	m / 10 gram	١.		
a	b	C	d	e f(d,k)	©f 🕵	g	h cxf/e	i c×g/e	k
Uncertainty Component	Sec.	Tol (±%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (±%)	10g Ui (±%)	vi
Measurement System			71.0					uD.	· jilli
Probe calibration	E.2.1	5.831	N	1	1	1 7	5.83	5.83	œ
Axial Isotropy	E.2.2	0.579	R	√3	1 mc°	Th 1 complian	0.33	0.33	00
Hemispherical Isotropy	E.2.2	0.813	R	√3	0	0	0.00	0.00	00
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	99	1	0.58	0.58	00
Linearity	E.2.4	1.26	R	$\sqrt{3}$	1	1	0.73	0.73	00
System detection limits	E.2.4	1.0	R	√3	The Compilar	1	0.58	0.58	o
Modulation response	E2.5	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	00
Readout Electronics	E.2.6	0.021	N	1	1	V 1	0.021	0.021	00
Response Time	E.2.7	0.0	R	√3	0	0	0.00	0.00	00
Integration Time	E.2.8	1.4	R	√3	0	0	0.00	0.00	00
RF ambient conditions-Noise	E.6.1	3.0	R	√3	® 1	1	1.73	1.73	000
RF ambient conditions-reflections	E.6.1	3.0	R	$\sqrt{3}$	C 1	1	1.73	1.73	00
Probe positioner mechanical tolerance	E.6.2	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	00
Probe positioning with respect to phantom shell	E.6.3	1.4	∌ R	√3	1 1 m	14	0.81	0.81	8
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.3	R	√3	16	1	1.33	1.33	8
System check source (dipole)	60							A THE	
Deviation of experimental dipole from numerical dipole	E.6.4	5.0	N	1 1 1	1 极	1 1 m	5.00	5.00	∞
Input power and SAR drift measurement	8,6.6.4	5.0	R	√3	estation of Clobar	1.0	2.89	2.89	oo
Dipole axis to liquid distance	8,E.6.6	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	00
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4.0	R	√3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TI TO TOTAL	2.31	2.31	8
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	Alestation of Global C		0.84	1.90	1.60	8
Liquid conductivity measurement	E.3.3	4.0	N	1	0.78	0.71	3.12	2.84	М
Liquid permittivity measurement	E.3.3	5.0	N	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	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	√3	0.23	0.26	0.33	0.38	8
Combined Standard Uncertainty	- (1)	1	RSS			lite:	9.735	9.534	
Expanded Uncertainty (95% Confidence interval)		LUE:	K=2	10 m	3	F Global Compilarion	19.470	19.069	0

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Syster	n check ur	ncertainty fo	or Dipole a	averaged o	over 1 gram	/ 10 gram.		Town	
a	b	C	d to	e f(d,k)	©f 🚒	rof Global g	h c×f/e	i c×g/e	k
Uncertainty Component	Sec.	Tol (± %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (±%)	10g Ui (±%)	vi
Measurement System			Tree .					ND.	TILL:
Probe calibration drift	E.2.1.3	0.5	N	1	1	1 📆	0.50	0.50	00
Axial Isotropy	E.2.2	0.579	R	√3	ny ance O	J. 0	0.00	0.00	00
Hemispherical Isotropy	E.2.2	0.813	R	√3	0	on of O	0.00	0.00	00
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	0	0	0.00	0.00	8
Linearity	E.2.4	1.26	R	$\sqrt{3}$	0	0	0.00	0.00	00
System detection limits	E.2.4	1.0	R	√3	O omplan	0	0.00	0.00	00
Modulation response	E2.5	3.0	R	$\sqrt{3}$	on of Global	0	0.00	0.00	00
Readout Electronics	E.2.6	0.021	N	1	0	0	0.00	0.00	00
Response Time	E.2.7	0	R	√3	0	0	0.00	0.00	00
Integration Time	E.2.8	1.4	R	√3	0	0	0.00	0.00	00
RF ambient conditions-Noise	E.6.1	3.0	R	$\sqrt{3}$	© 0	0	0.00	0.00	00
RF ambient conditions-reflections	E.6.1	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	00
Probe positioner mechanical tolerance	E.6.2	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	00
Probe positioning with respect to phantom shell	E.6.3	1.4	₩ R	√3	TAN 1	14	0.81	0.81	00
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5 💿	2.3	R®	√3	0	0	0.00	0.00	8
System check source (dipole)	69							III.	
Deviation of experimental dipoles	E.6.4	2	N	1 1	1 极	1 1	2	2	00
Input power and SAR drift measurement	8,6.6.4	5	R	√3	Figure 1 obal Con	1	2.89	2.89	00
Dipole axis to liquid distance	8,E.6.6	2	R	$\sqrt{3}$	1	1	1.15	1.15	00
Phantom and tissue parameters		0						1	F 7
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	√3	1 1 m	1世	2.31	2.31	00
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	F Thomas Co	1	0.84	1.90	1.60	00
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	N	1	0.23	0.26	1.15	1.30	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	√3	0.78	0.71	1.13	1.02	α
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	√3	0.23	0.26	0.33	0.38	œ
Combined Standard Uncertainty		Altes	RSS			-mil	5.564	5.205	
Expanded Uncertainty (95% Confidence interval)		. de	K=2	liti:		The Compliance	11.128	10.410	

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12. CONDUCTED POWER MEASUREMENT

1.9GHz

Mode	Channel	Frequency (MHz)	Maximum Peak Conducted Power (dBm)
on of Global	CH0	1921.536	18.11
1900MHz	CH4	1924.992	17.99
	CH9	1928.448	17.89

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13. TEST RESULTS

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

- 1. The EUT is a wireless indoor monitor;
- 2. Lab use the body liquid with a separation of 0mm at flat phantom to test Body SAR;
- For SAR testing, the device was controlled by software to test at reference fixed frequency points.

13.1.2. Operation Mode

- 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 \geq 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
- 3. 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.) \times [maximum turn-up power (mw)/ maximum measurement output power(mw)]

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13.1.3. Test Result

SAR MEASUREMENT	
Depth of Liquid (cm):>15	Relative Humidity (%): 51.7
Product: Digital Audio Baby Monitor	

Test Mode: 1.9G

Position	Ch.	Fr. (MHz)	Power Drift (<±0.2dB)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
Body Back	CH4	1924.992	-0.08	0.021	18.5	17.99	0.024	1.6
Body Front	CH4	1924.992	0.12	0.038	18.5	17.99	0.043	1.6
Edge1	CH4	1924.992	-0.04	0.014	18.5	17.99	0.016	1.6
Edge2	CH4	1924.992	0.09	0.016	18.5	17.99	0.018	1.6
Edge4	CH4	1924.992	-0.07	0.014	18.5	17.99	0.016	1.6

Note:

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^{(1).} When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.



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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)] $\cdot [\sqrt{f(GHz)}] \le 3.0$

- 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

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
- $= 96 + (60-50) \times 10 \text{ mW}$
- = 196 mW.

Conclusion

Since the Maximum Tune-up Power (**70.79mW**) is less than the SAR Exclusion Threshold for Top, Left edges, Right edges SAR evaluation for these adjacent edges are not required.

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APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab Date: Oct. 12,2018

System Check Body 1900MHz

DUT: Dipole 1900 MHz; Type: SID 1900

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=5.39 Frequency: 1900 MHz; Medium parameters used: f = 1850 MHz; $\sigma = 1.48$ mho/m; $\epsilon r = 54.26$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (°C):21.9, Liquid temperature (°C): 21.6

SATIMO Configuration:

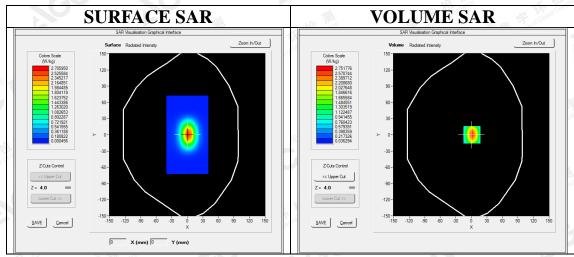
· Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159

Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_35

Configuration/System Check 1900MHz Body/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/System Check 1900MHz Body/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm



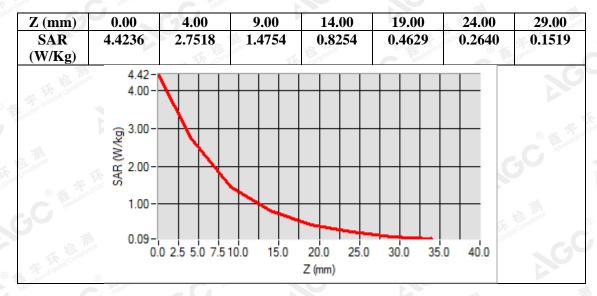
Maximum location: X=1.00, Y=0.00 SAR Peak: 4.42 W/kg

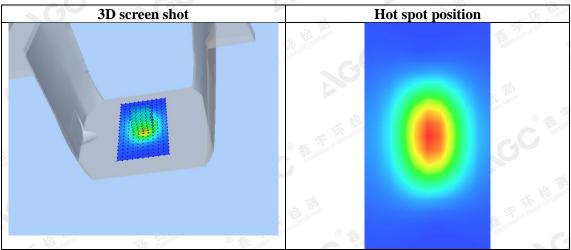
SAR 10g (W/Kg)	1.298335
SAR 1g (W/Kg)	2.588231

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APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab Date: Oct. 12,2018

1.9GHz Mid - Body- Back

DUT: Digital Audio Baby Monitor; Type: HB178RX

Communication System: 1.9GHz; Communication System Band: 1.9GHz; Duty Cycle: 4%; Conv.F=5.39;

Frequency: 1924.992MHz; Medium parameters used: f = 1850 MHz; $\sigma = 1.53$ mho/m; $\epsilon r = 53.15$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$ C): 21.9, Liquid temperature ($^{\circ}$ C): 21.6

SATIMO Configuration:

· Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159

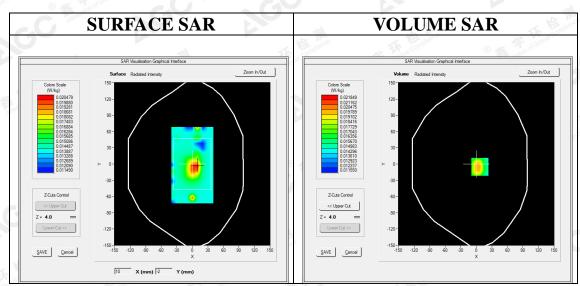
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_35

Configuration/1.9GHz Mid-Body-Back/Area Scan: Measurement grid: dx=10mm, dy=10mm Configuration/1.9GHz Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Back
Band	1.9GHz
Channels	Middle
Signal Signal	Crest factor: 25



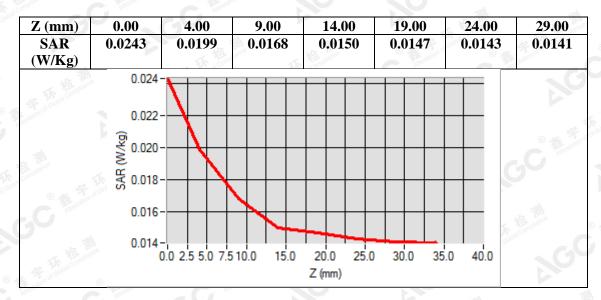
Maximum location: X=7.00, Y=-5.00 SAR Peak: 0.03 W/kg

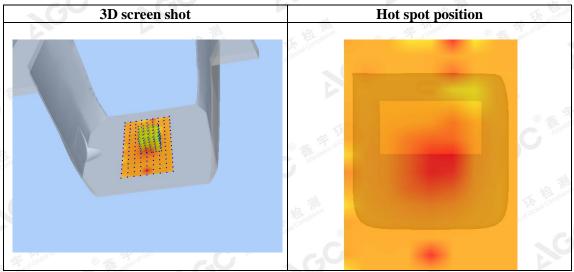
SAR 10g (W/Kg)	0.016893
SAR 1g (W/Kg)	0.020549

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Test Laboratory: AGC Lab Date: Oct. 12,2018

1.9GHz Mid - Body- Front

DUT: Digital Audio Baby Monitor; Type: HB178RX

Communication System: 1.9GHz; Communication System Band: 1.9GHz; Duty Cycle: 4%; Conv.F=5.39;

Frequency: 1924.992 MHz; Medium parameters used: f = 1850 MHz; $\sigma = 1.53 \text{ mho/m}$; $\epsilon r = 53.15$; $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section

Ambient temperature (°C): 21.9, Liquid temperature (°C): 21.6

SATIMO Configuration:

· Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159

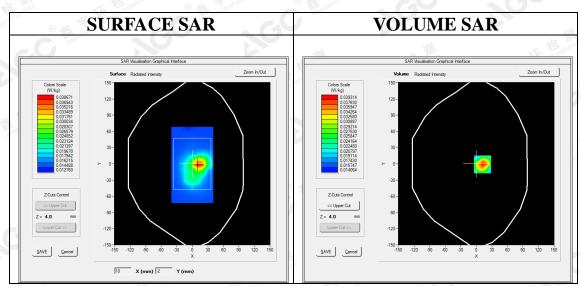
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

· Measurement SW: OpenSAR V4_02_35

Configuration/1.9GHz Mid-Body- Front /Area Scan: Measurement grid: dx=10mm, dy=10mm Configuration/1.9GHz Mid-Body- Front /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Front
Band	1.9GHz
Channels	Middle 6 Middle
Signal	Crest factor: 25



Maximum location: X=12.00, Y=-1.00

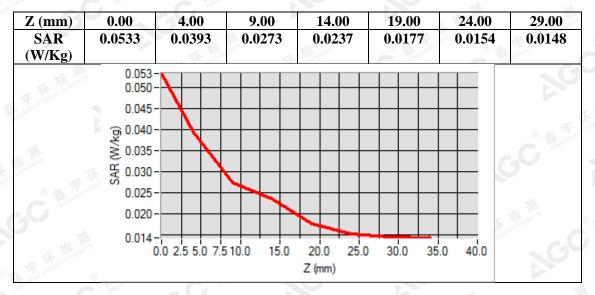
SAR Peak: 0.05 W/kg

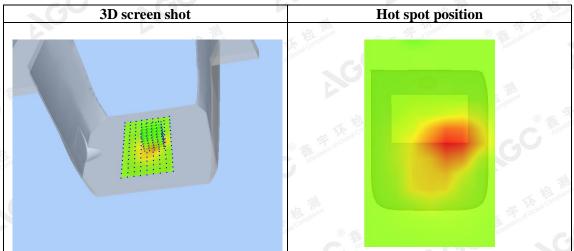
SAR 10g (W/Kg)	0.025404
SAR 1g (W/Kg)	0.037666

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Test Laboratory: AGC Lab

1.9GHz Mid - Edge1

DUT: Digital Audio Baby Monitor; Type: HB178RX

Communication System: 1.9GHz; Communication System Band: 1.9GHz; Duty Cycle:4%; Conv.F=5.39;

Frequency: 1924.992 MHz; Medium parameters used: f = 1850 MHz; $\sigma = 1.53$ mho/m; $\epsilon r = 53.15$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature (°C): 21.9, Liquid temperature (°C): 21.6

SATIMO Configuration:

Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159

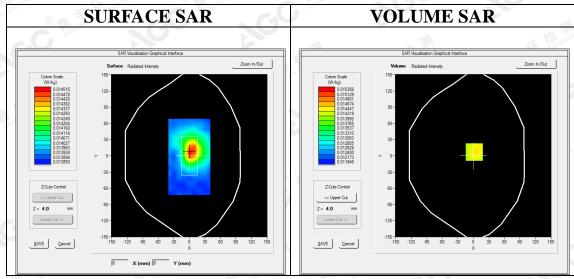
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_35

Configuration/1.9GHz Mid-Edge 1/Area Scan: Measurement grid: dx=10mm, dy=10mm Configuration/1.9GHz Mid-Edge 1/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Edge 1
Band	1.9GHz
Channels	Middle
Signal	Crest factor: 25



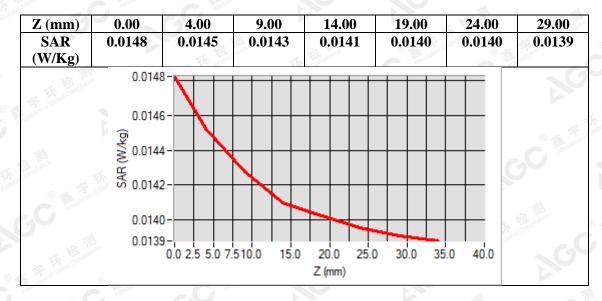
Maximum location: X=2.00, Y=7.00 SAR Peak: 0.02 W/kg

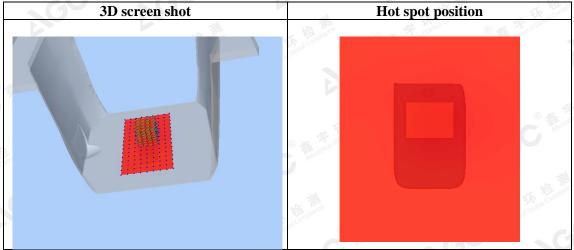
SAR 10g (W/Kg)	0.014208
SAR 1g (W/Kg)	0.014419

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Test Laboratory: AGC Lab Date: Oct. 12,2018

1.9GHz Mid – Edge2

DUT: Digital Audio Baby Monitor; Type: HB178RX

Communication System: 1.9GHz; Communication System Band: 1.9GHz; Duty Cycle: 4%; Conv.F=5.39;

Frequency: 1924.992 MHz; Medium parameters used: f = 1850 MHz; $\sigma = 1.53 \text{ mho/m}$; $\epsilon r = 53.15$; $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section

Ambient temperature (°C): 21.9, Liquid temperature (°C): 21.6

SATIMO Configuration:

Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159

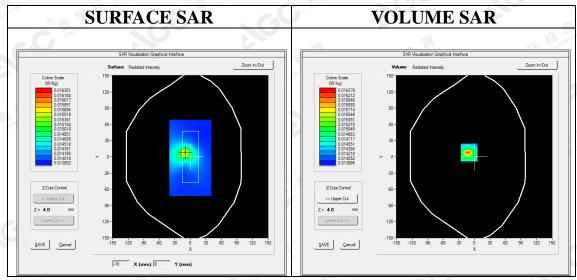
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

· Measurement SW: OpenSAR V4_02_35

Configuration/1.9GHz Mid-Edge 2/Area Scan: Measurement grid: dx=10mm, dy=10mm Configuration/1.9GHz Mid-Edge 2/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Edge 2
Band	1.9GHz
Channels	Middle
Signal	Crest factor: 25



Maximum location: X=-10.00, Y=8.00

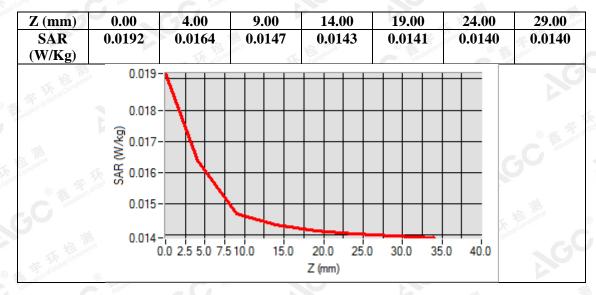
SAR Peak: 0.02 W/kg

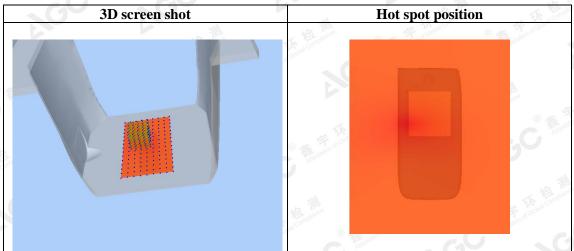
SAR 10g (W/Kg)	0.014714
SAR 1g (W/Kg)	0.016197

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Test Laboratory: AGC Lab 1.9GHz Mid – Edge4

DUT: Digital Audio Baby Monitor; Type: HB178RX

Communication System: 1.9GHz; Communication System Band: 1.9GHz; Duty Cycle:4%; Conv.F=5.39;

Frequency: 1924.992 MHz; Medium parameters used: f = 1850 MHz; $\sigma = 1.53$ mho/m; $\epsilon r = 53.15$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature (°C): 21.9, Liquid temperature (°C): 21.6

SATIMO Configuration:

· Probe: SSE5; Calibrated: Aug. 08,2018; Serial No.: SN 22/12 EP159

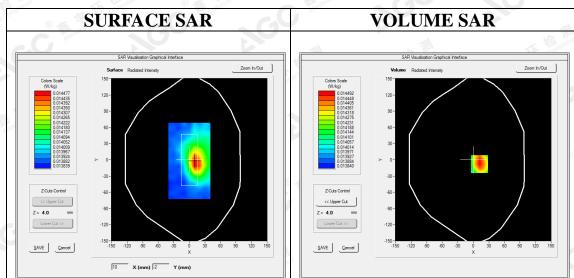
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_35

Configuration/1.9GHz Mid-Edge 4/Area Scan: Measurement grid: dx=10mm, dy=10mm Configuration/1.9GHz Mid-Edge 4/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Edge 4
Band	1.9GHz
Channels	Middle
Signal	Crest factor: 25



Maximum location: X=12.00, Y=-8.00

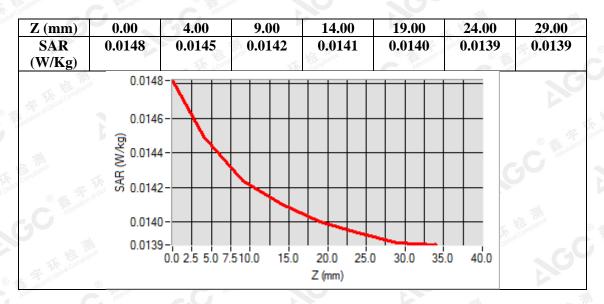
SAR Peak: 0.01 W/kg

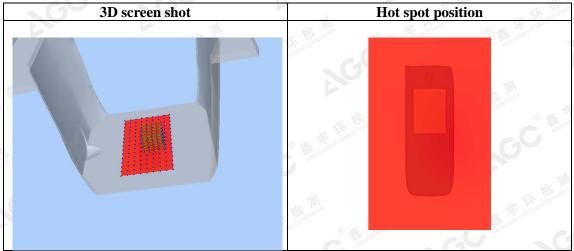
SAR 10g (W/Kg)	0.014205
SAR 1g (W/Kg)	0.014474

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