

SAR Test Report

Technical Report No.: 60.870.15.005.01S
Date: 2015-06-18

CLIENT:

Company Name: Binatone Electronics International Limited
Address: Floor 23A, 9 Des Voeux Road West, Sheung Wan, Hong Kong

MANUFACTURING PLACE:

Company Name: Vtech (Dongguan) Telecommunication Limited
Address: VTech Science Park, Xia Ling Bei Management Zone, Liaobu, Dongguan, Guangdong, China

TEST SUBJECT:

Model name: Digital Video Baby Monitor
Brand name: motorola
Model no.: MBP854CONNECTPU
FCC ID: VLJ-MBP854HDSPU

TEST SPECIFICATION: IEEE Std. 1528:2003
IEEE Std. 1528a:2005
FCC 47CFR § 2.1093
IEEE/ANSI C95.1:1992

TEST RESULTS: POSITIVE

This report may only be quoted in full. Any use for advertising purposes must be granted in writing. This report is result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production.

Prepared by: Ray Cheung

Approval by: Nicolas Cheng

Project Engineer
Date: 2015-06-18



Project Manager
Date: 2015-06-18





Test Report Certification

Applicant Name	Binatone Electronics International Limited
Applicant Address	Floor 23A, 9 Des Voeux Road West, Sheung Wan, Hong Kong
Manufacturer Name	Vtech (Dongguan) Telecommunication Limited
Manufacturer Address	VTech Science Park, Xia Ling Bei Management Zone, Liaobu Dongguan, Guangdong, China
Product Designation	Digital Video Baby Monitor (Parent Unit)
Brand Name	motorola
Model Name	MBP854CONNECTPU
Different Description	N/A
EUT Voltage	DC3.7V by battery
Applicable Standard	IEEE Std. 1528:2003 IEEE Std. 1528a:2005 FCC 47CFR § 2.1093 IEEE/ANSI C95.1:1992
Test Date	May 25,2015
Performed Location	Attestation of Global Compliance(Shenzhen) Co., Ltd. 2 F, Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang Street, Bao'an District, Shenzhen, China

TABLE OF CONTENTS

1. SUMMARY OF MAXIMUM SAR VALUE	4
2. GENERAL INFORMATION.....	5
2.1. EUT DESCRIPTION.....	5
3. SAR MEASUREMENT SYSTEM.....	6
3.1. THE SATIMO SYSTEM USED FOR PERFORMING COMPLIANCE TESTS CONSISTS OF FOLLOWING ITEMS	6
3.2. COMOSAR E-FIELD PROBE	7
3.3. ROBOT	7
3.4. VIDEO POSITIONING SYSTEM	8
3.5. DEVICE HOLDER	8
3.6. SAM Twin PHANTOM.....	9
4. SAR MEASUREMENT PROCEDURE.....	10
4.1. SPECIFIC ABSORPTION RATE (SAR).....	10
4.2. SAR MEASUREMENT PROCEDURE.....	11
5. TISSUE SIMULATING LIQUID.....	13
5.1. THE COMPOSITION OF THE TISSUE SIMULATING LIQUID.....	13
5.2. TISSUE DIELECTRIC PARAMETERS FOR HEAD AND BODY PHANTOMS	13
5.3. TISSUE CALIBRATION RESULT	14
6. SAR SYSTEM CHECK PROCEDURE	15
6.1. SAR SYSTEM CHECK PROCEDURES	15
6.2. SAR SYSTEM CHECK.....	16
7. EUT TEST POSITION.....	17
7.1. BODY WORN POSITION	17
8. SAR EXPOSURE LIMITS	18
9. TEST EQUIPMENT LIST	19
10. MEASUREMENT UNCERTAINTY	20
11. CONDUCTED POWER MEASUREMENT.....	22
12. TEST RESULTS	23
12.1. SAR TEST RESULTS SUMMARY.....	23
APPENDIX A. SAR SYSTEM CHECK DATA	25
APPENDIX B. SAR MEASUREMENT DATA.....	27
APPENDIX C. TEST SETUP PHOTOGRAPHS &EUT PHOTOGRAPHS.....	53
APPENDIX D. CALIBRATION DATA	53



1. SUMMARY OF MAXIMUM SAR VALUE

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

Frequency Band	Highest Reported SAR(W/Kg)
	Body-worn(with 0mm separation)
2.4G	0.615

This device is compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6W/Kg) specified in IEEE Std. 1528:2003; IEEE1528a-2005; FCC 47CFR § 2.1093; IEEE/ANSI C95.1:1992 and the following specific FCC Test Procedures:

- KDB 447498 D01 General RF Exposure Guidance v05r02
- KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r03
- KDB 648474 D04 Handset SAR v01r02

2. GENERAL INFORMATION

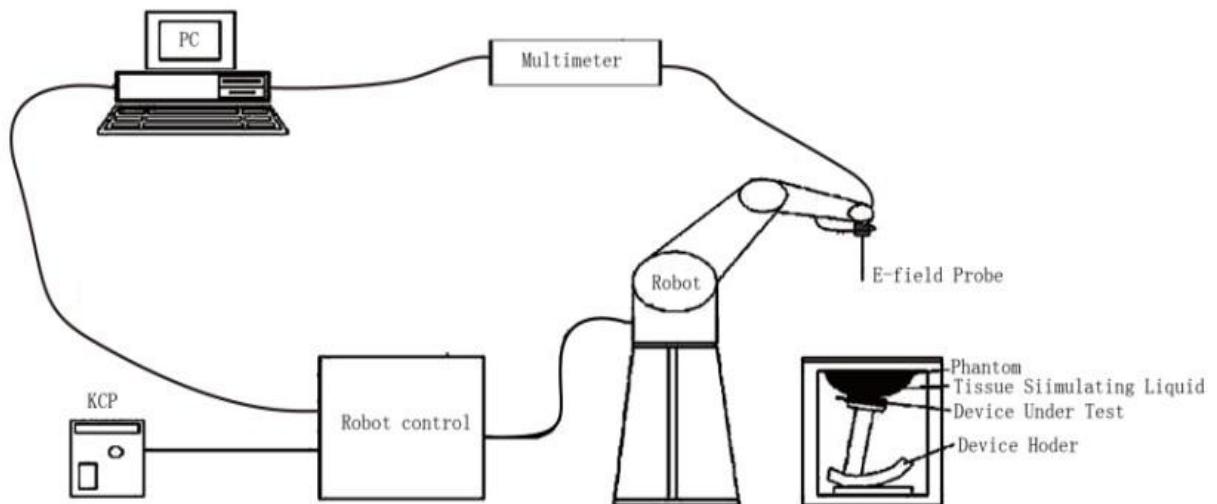
2.1. EUT Description

General Information	
Product Designation	Digital Video Baby Monitor (Parent Unit)
Test Model	MBP854CONNECTPU
Hardware Version	N/A
Software Version	N/A
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
2.4GHz	
Operation Frequency	2402~2479MHz
Type of modulation	<input checked="" type="checkbox"/> GFSK <input type="checkbox"/> Π/4-DQPSK <input type="checkbox"/> 8-DPSK
Peak Power	19.11dBm
Antenna Gain	0dBi

Product	Type
	<input checked="" type="checkbox"/> Production unit <input type="checkbox"/> Identical Prototype

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:

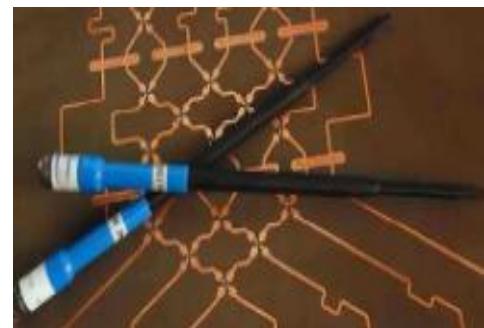
- The PC. It controls most of the bench devices and stores measurement data. A computer running WinXP and the Opensar software.
- The E-Field probe. The probe is a 3-axis system made of 3 distinct dipoles. Each dipole returns a voltage in function of the ambient electric field.
- The Keithley multimeter 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.

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
Manufacture	SATIMO
Frequency	0.3GHz-3GHz Linearity:±0.09dB(300MHz-3GHz)
Dynamic Range	0.01W/Kg-100W/Kg Linearity:±0.09dB
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 any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 3 GHz with precision of better 30%.



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

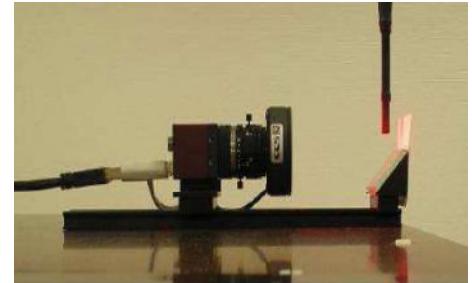


3.4. Video Positioning System

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.

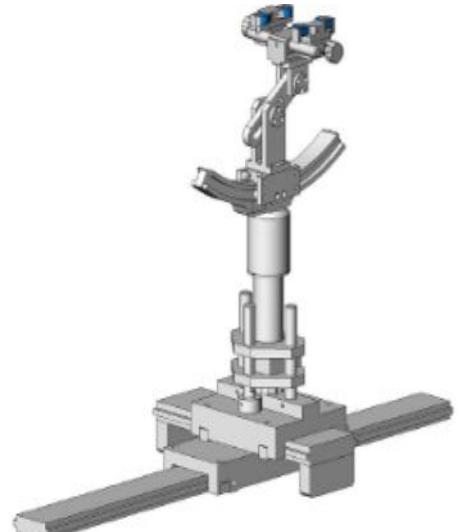


3.5. Device Holder

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.

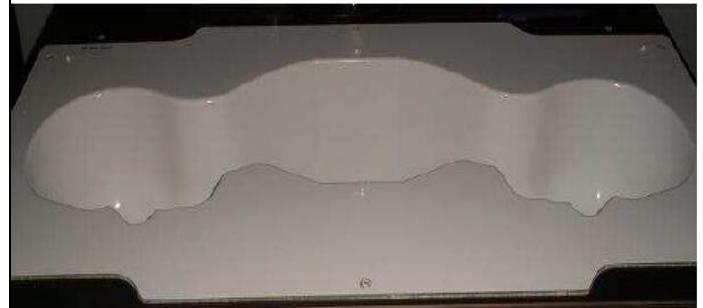
The COMOSAR device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon_r = 3$ and loss tangent $\delta = 0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



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.

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:

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

SAR is expressed in units of Watts per kilogram (W/Kg)

SAR can be obtained using either of the following equations:

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

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

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

$\frac{dT}{dt} \Big|_{t=0}$ is the initial time derivative of temperature in the tissue in kelvins per second

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 of 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 and IEC62209 standards, 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	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
	≤ 2 GHz: ≤ 15 mm $2 - 3$ GHz: ≤ 12 mm	$3 - 4$ GHz: ≤ 12 mm $4 - 6$ GHz: ≤ 10 mm
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be \leq the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

Step 3: Zoom Scan

Zoom Scan are used to assess the peak spatial SAR value within a cubic average volume containing 1g and 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.

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

Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom}		$\leq 2 \text{ GHz: } \leq 8 \text{ mm}$ $2 - 3 \text{ GHz: } \leq 5 \text{ mm}^*$	$3 - 4 \text{ GHz: } \leq 5 \text{ mm}^*$ $4 - 6 \text{ GHz: } \leq 4 \text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$ graded grid	$\leq 5 \text{ mm}$	$3 - 4 \text{ GHz: } \leq 4 \text{ mm}$ $4 - 5 \text{ GHz: } \leq 3 \text{ mm}$ $5 - 6 \text{ GHz: } \leq 2 \text{ mm}$
		$\leq 4 \text{ mm}$	$3 - 4 \text{ GHz: } \leq 3 \text{ mm}$ $4 - 5 \text{ GHz: } \leq 2.5 \text{ mm}$ $5 - 6 \text{ GHz: } \leq 2 \text{ mm}$
Minimum zoom scan volume	x, y, z	$\geq 30 \text{ mm}$	$3 - 4 \text{ GHz: } \geq 28 \text{ mm}$ $4 - 5 \text{ GHz: } \geq 25 \text{ mm}$ $5 - 6 \text{ GHz: } \geq 22 \text{ mm}$
		$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	

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.

* When zoom scan is required and the reported SAR from the *area scan based 1-g SAR estimation* procedures of KDB 447498 is $\leq 1.4 \text{ W/kg}$, $\leq 8 \text{ mm}$, $\leq 7 \text{ mm}$ and $\leq 5 \text{ mm}$ zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

Step 4: Power Drift Measurement

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

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 5.3

5.1. The composition of the tissue simulating liquid

Ingredient	Water	Salt	Sugar	HEC	Preventol	DGBE	TWEEN	Triton X-100
2450MHz	√	√	--	--	--	√	--	--

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 (MHz)	head		body	
	ε _r	σ (S/m)	ε _r	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

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

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 Measurement for 2.4GHz					
Body	Fr. (MHz)	Dielectric Parameters ($\pm 5\%$)		Tissue Temp [°C]	Test time
		ϵ_r 52.7(50.065-55.335)	δ [s/m] 1.95(1.8525-2.0475)		
	2402	53.83	1.87	21.2	May 25,2015
	2440	53.41	1.90		
	2450	53.11	1.92		
	2479	52.54	1.95		

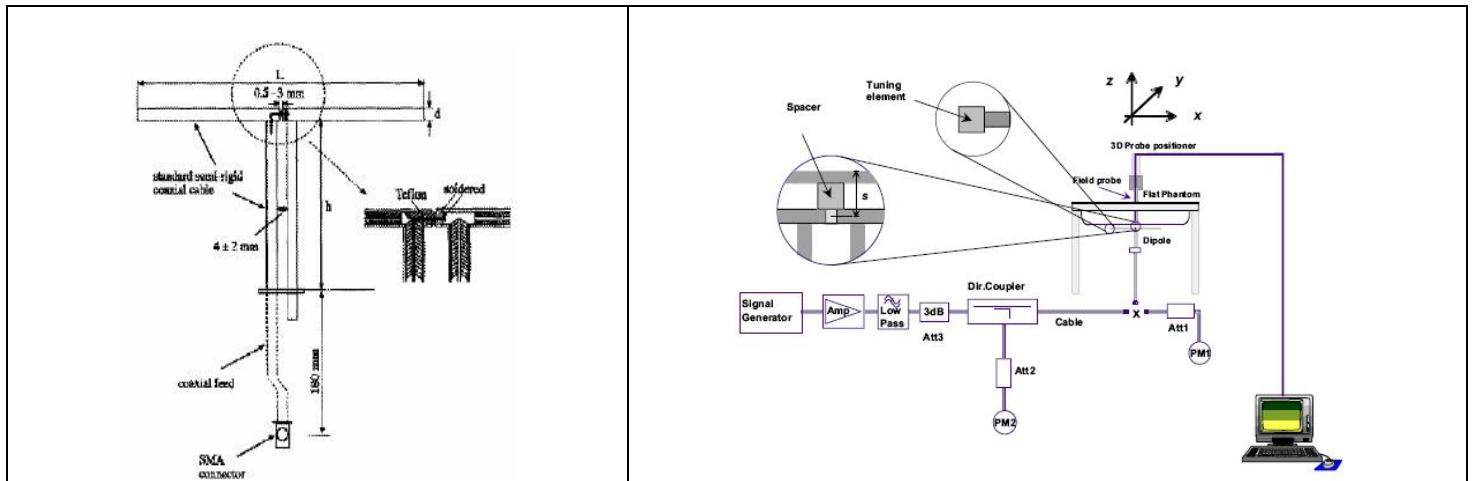
6. SAR SYSTEM CHECK PROCEDURE

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.

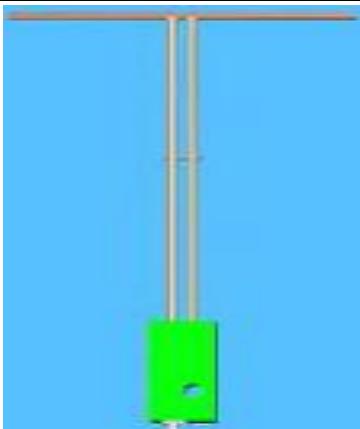
Each SATIMO system is equipped with one or more system check kits. These units, together with the predefined measurement procedures within the SATIMO software, enable the user to conduct the system check and system validation. System kit includes a dipole, and dipole device holder.

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.



6.2. SAR System Check

6.2.1. Dipoles

	<p>The dipoles used is based on the IEEE-1528 standard, and is complied with mechanical and electrical specifications in line with the requirements of both IEEE and FCC Supplement C. the table below provides details for the mechanical and electrical Specifications for the dipoles.</p>
---	---

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

6.2.2. System Check Result

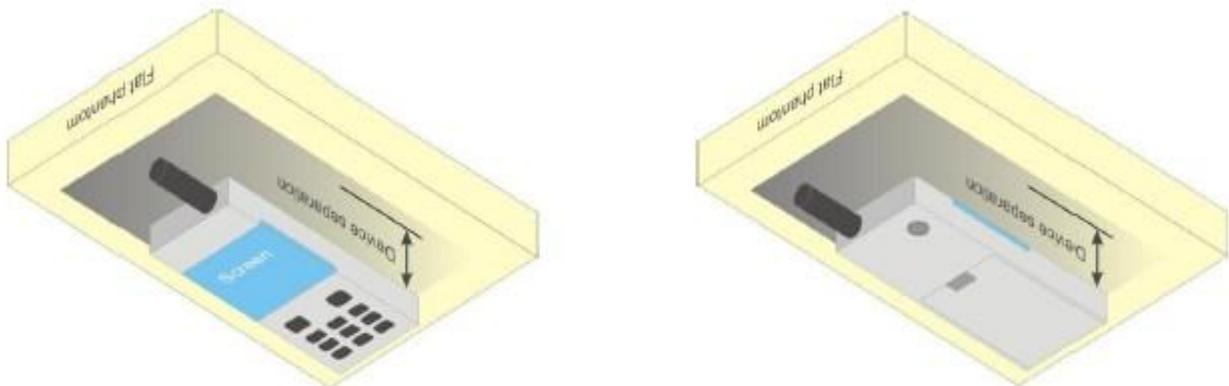
System Performance Check at 2450MHz								
Validation Kit: SN 46/11 DIP 2G450-189								
Frequency [MHz]	Target Value(W/Kg)		Reference Result ($\pm 10\%$)		Tested Value(W/Kg)		Tissue Temp. [°C]	Test time
	1g	10g	1g	10g	1g	10g		
2450	54.19	24.96	48.771-59.609	22.464-27.456	56.848	26.210	21.2	May 25,2015

7. EUT TEST POSITION

This EUT was tested in **Body back and 4 edges**.

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**.



8. SAR EXPOSURE LIMITS

SAR assessments have been made in line with the requirements of IEEE-1528, FCC Supplement C, and comply with ANSI/IEEE C95.1-1992 "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

9. TEST EQUIPMENT LIST

Equipment description	Manufacturer/Model	Identification No.	Current calibration date	Next calibration date
SAR Probe	SATIMO	SN 22/12 EP159	12/03/2014	12/02/2015
TISSUE Probe	SATIMO	SN 45/11 OCPG45	12/03/2014	12/02/2015
Phantom	SATIMO	SN_4511_SAM90	Validated. No cal required.	Validated. No cal required.
Liquid	SATIMO	-	Validated. No cal required.	Validated. No cal required.
Comm Tester	R&S - CMU200	069Y7-158-13-712	03/06/2015	03/05/2016
Comm Tester	Agilent-8960	GB46310822	03/06/2015	03/05/2016
Multimeter	Keithley 2000	1188656	03/06/2015	03/05/2016
Dipole	SATIMO SID2450	SN46/11 DIP 2G450-189	11/14/2013	11/13/2016
Signal Generator	Agilent-E4438C	MY44260051	03/06/2015	03/05/2016
Power Sensor	NRP-Z23	US38261498	03/06/2015	03/05/2016
Spectrum Analyzer E4440	Agilent	US41421290	07/25/2014	07/24/2015
Network Analyzer	Rhode & Schwarz ZVL6	SN100132	03/06/2015	03/05/2016
Attenuator	Warison /WATT-6SR1211	N/A	N/A	N/A
Attenuator	Mini-circuits / VAT-10+	N/A	N/A	N/A
Amplifier	EM30180	SN060552	03/06/2015	03/05/2016
Directional Couple	Werlatone/ C6026-10	SN99482	07/30/2014	07/29/2015
Power Sensor	NRP-Z21	1137.6000.02	10/22/2014	10/21/2015
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.

10. MEASUREMENT UNCERTAINTY

SATIMO Uncertainty

Measurement uncertainty for 300 MHz to 3 GHz averaged over 1 gram / 10 gram.

Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	Vi
Measurement System									
Probe calibration	E.2.1	7.0	N	1	1	1	6.98	6.98	∞
Axial Isotropy	E.2.2	2.5	R	$\sqrt{3}$	1	1	1.16	1.16	∞
Hemispherical Isotropy	E.2.2	4.0	R	$\sqrt{3}$	1	1	2.33	2.33	∞
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	E.2.4	5.0	R	$\sqrt{3}$	1	1	2.87	2.87	∞
System detection limits	E.2.5	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Readout Electronics	E.2.6	0.02	N	□1	1	1	0.03	0.03	∞
Response Time	E.2.7	3.0	R	$\sqrt{3}$	1	1	1.70	1.70	∞
Integration Time	E.2.8	2.0	R	$\sqrt{3}$	1	1	1.16	1.16	∞
RF ambient Conditions	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.71	1.71	∞
Probe positioner Mechanical Tolerance	E.6.2	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Probe positioning with respect to Phantom Shell	E.6.3	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞
Extrapolation, interpolation and integration Algorithms for Max. SAR Evaluation	E.5.2	5.0	R	$\sqrt{3}$	1	1	2.91	2.91	∞
Test sample Related									
Test sample positioning	E.4.2.1	0.03	N	1	1	1	0.05	0.05	N-1
Device Holder Uncertainty	E.4.1.1	5.00	N	1	1	1	4.95	4.95	∞
Output power Variation - SAR drift measurement	6.6.2	0.65	R	$\sqrt{3}$	1	1	0.36	0.36	∞
Phantom and Tissue Parameters									
Phantom Uncertainty (Shape and thickness tolerances)	E.3.1	0.05	R	$\sqrt{3}$	1	1	0.02	0.02	∞
Liquid conductivity deviation from target value	E.3.2	5.00	R	$\sqrt{3}$	0.64	0.43	1.83	1.23	∞
Liquid conductivity - measurement uncertainty	E.3.3	5.00	N	1	0.64	0.43	3.18	2.14	∞
Liquid permittivity - deviation from target value	E.3.2	0.03	R	$\sqrt{3}$	0.6	0.49	0.01	0.01	∞
Liquid permittivity - measurement uncertainty	E.3.3	10.00	N	1	0.6	0.49	6.06	4.95	M
Combined Standard Uncertainty			RSS				11.17	10.63	∞
Expanded Uncertainty (95% Confidence interval)			k				22.34	21.26	

SATIMO Uncertainty									
System uncertainty for 300 MHz to 3 GHz averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	Vi
Measurement System									
Probe calibration	E.2.1	7.0	N	1	1	1	6.98	6.98	∞
Axial Isotropy	E.2.2	2.5	R	$\sqrt{3}$	1	1	1.16	1.16	∞
Hemispherical Isotropy	E.2.2	4.0	R	$\sqrt{3}$	1	1	2.33	2.33	∞
Boundary Effects	E.2.3	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	E.2.4	5.0	R	$\sqrt{3}$	1	1	2.87	2.87	∞
System detection limits	E.2.5	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Readout Electronics	E.2.6	0.02	N	1	1	1	0.03	0.03	∞
Response Time	E.2.7	3.0	R	$\sqrt{3}$	1	1	1.70	1.70	∞
Integration Time	E.2.8	2.0	R	$\sqrt{3}$	1	1	1.16	1.16	∞
RF ambient Conditions	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.71	1.71	∞
Probe positioner Mechanical Tolerance	E.6.2	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Probe positioning with respect to Phantom Shell	E.6.3	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞
Extrapolation, interpolation and integration Algorithms for Max. SAR Evaluation	E.5.2	5.0	R	$\sqrt{3}$	1	1	2.91	2.91	∞
Dipole									
Dipole axis to liquid Distance	8,E.4.2	1.00	N	$\sqrt{3}$	1	1	0.55	0.55	N-1
Input power and SAR drift measurement	8,6.6.2	0.65	R	$\sqrt{3}$	1	1	0.36	0.36	∞
Phantom and Tissue Parameters									
Phantom Uncertainty (Shape and thickness tolerances)	E.3.1	0.05	R	$\sqrt{3}$	1	1	0.02	0.02	∞
Liquid conductivity - deviation from target value	E.3.2	5.00	R	$\sqrt{3}$	0.64	0.43	1.83	1.23	∞
Liquid conductivity - measurement uncertainty	E.3.3	5.00	N	1	0.64	0.43	3.18	2.14	∞
Liquid permittivity - deviation from target value	E.3.2	0.03	R	$\sqrt{3}$	0.6	0.49	0.01	0.01	∞
Liquid permittivity - measurement uncertainty	E.3.3	10.00	N	1	0.6	0.49	6.06	4.95	M
Combined Standard Uncertainty			RSS				10.03	9.42	
Expanded Uncertainty (95% Confidence interval)			k				20.05	18.85	



**11. CONDUCTED POWER MEASUREMENT
2.4GHz**

Mode	Frequency(MHz)	Peak Power (dBm)
GFSK Modulation	2402	18.79
	2440	19.04
	2479	19.11

12. TEST RESULTS

12.1. SAR Test Results Summary

12.1.1. Test position and configuration

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

12.1.2. Operation Mode

1. Per KDB 447498 D01 v05r02 ,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 v01r03,for each frequency band, if the measured SAR is ≥ 0.8 W/kg, testing for repeated SAR measurement is required , that the highest measured SAR is only to be tested. When the SAR results are near the limit, the following procedures are required for each device to verify these types of SAR measurement related variation concerns by repeating the highest measured SAR configuration in each frequency band.
 - (1) When the original highest measured SAR is ≥ 0.8 W/kg, repeat that measurement once.
 - (2) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 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)]



12.1.3. Test Result

SAR MEASUREMENT															
Depth of Liquid (cm):>15				Relative Humidity (%): 61.2											
Product: Digital Video Baby Monitor (Parent Unit)															
Test Mode:2.4GHz Antenna Open															
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Turn-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit W/kg						
Body-back	DTS	Low	2402	-0.37	0.264	20	18.79	0.349	1.6						
Body-back	DTS	Mid.	2440	1.02	0.337	20	19.04	0.420	1.6						
Body-back	DTS	High	2479	-0.06	0.243	20	19.11	0.298	1.6						
Body - Left	DTS	Mid.	2440	-1.33	0.315	20	19.04	0.393	1.6						
Body - Right	DTS	Mid.	2440	1.96	0.034	20	19.04	0.042	1.6						
Body-Bottom	DTS	Mid.	2440	-0.49	0.046	20	19.04	0.057	1.6						

Note:

- When the 1-g Reported SAR is ≤ 0.8W/kg, testing for low and high channel is optional.
- The test separation of all above table for Body is 0mm, above test mode see the Photographs.
- All of above "DTS" means data transmitters.

SAR MEASUREMENT															
Depth of Liquid (cm):>15				Relative Humidity (%): 61.2											
Product: Digital Video Baby Monitor (Parent Unit)															
Test Mode:2.4GHz Antenna Closed															
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Turn-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit W/kg						
Body-back	DTS	Low	2402	-1.69	0.323	20	18.79	0.427	1.6						
Body-back	DTS	Mid.	2440	0.67	0.493	20	19.04	0.615	1.6						
Body-back	DTS	High	2479	-0.48	0.313	20	19.11	0.384	1.6						
Body - Left	DTS	Mid.	2440	-0.33	0.355	20	19.04	0.443	1.6						
Body - Right	DTS	Mid.	2440	0.15	0.049	20	19.04	0.061	1.6						
Body - Top	DTS	Mid.	2440	-0.03	0.031	20	19.04	0.039	1.6						
Body-Bottom	DTS	Mid.	2440	0.95	0.379	20	19.04	0.473	1.6						

Note:

- When the 1-g Reported SAR is ≤ 0.8W/kg, testing for low and high channel is optional.
- The test separation of all above table for Body is 0mm, above test mode see the Photographs.
- All of above "DTS" means data transmitters.

APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab

Date: May 25,2015

System Check 2450 MHz

DUT: Dipole 2450 MHz Type: SID 2450

Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=4.07 Frequency: 2450 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.90$ mho/m; $\epsilon_r = 53.41$; $\rho = 1000$ kg/m³ ;

Phantom section: Flat Section; Input Power=18dBm

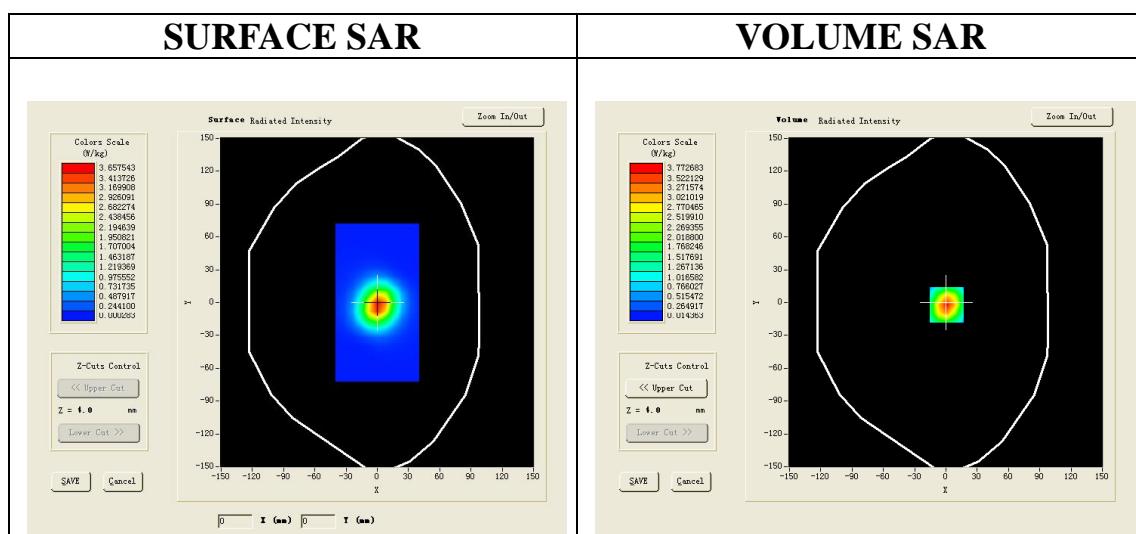
Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.2

SATIMO Configuration

- Probe: SSE5; Calibrated: 12/03/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_01

Configuration/System Check 2450MHz/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 2450MHz/Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm

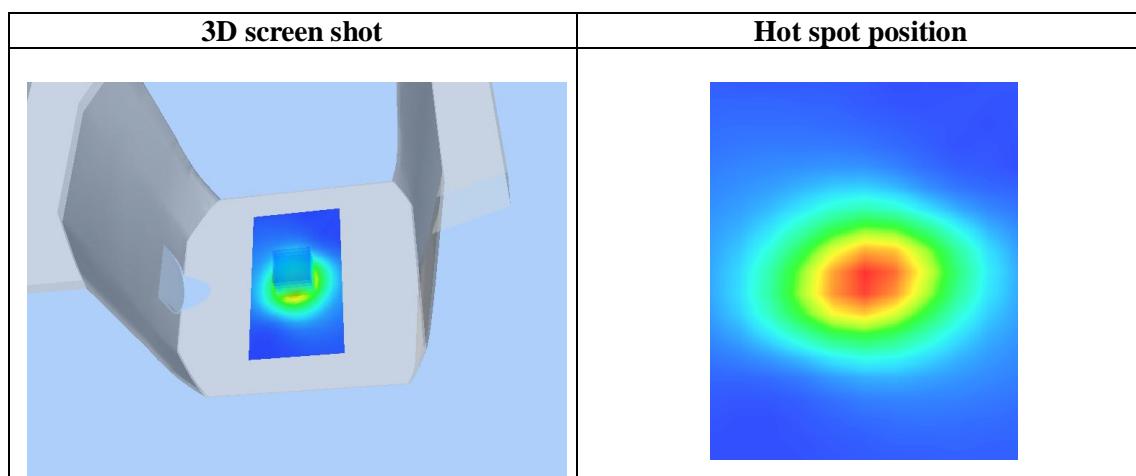
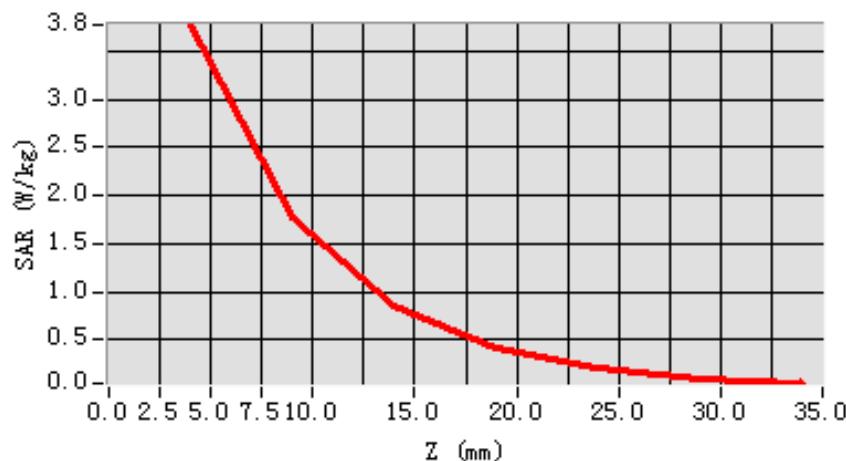


Maximum location: X=1.00, Y=-2.00

SAR 10g (W/Kg)	1.638067
SAR 1g (W/Kg)	3.553004

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	3.7710	1.7721	0.8546	0.4128	0.2007	0.0981

SAR, Z Axis Scan (X = 1, Y = -2)



APPENDIX B. SAR MEASUREMENT DATA

Antenna Open

Test Laboratory: AGC Lab

Date: May 25,2015

2.4GHz Low-Body -Back

DUT: Digital Video Baby Monitor (Parent Unit) ; Type: MBP854CONNECTPU

Communication System: Wi-Fi; Communication System Band: 2450; Duty Cycle: 1:1; Conv.F=4.07; Frequency: 2402MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.90$ mho/m; $\epsilon_r = 53.41$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.2

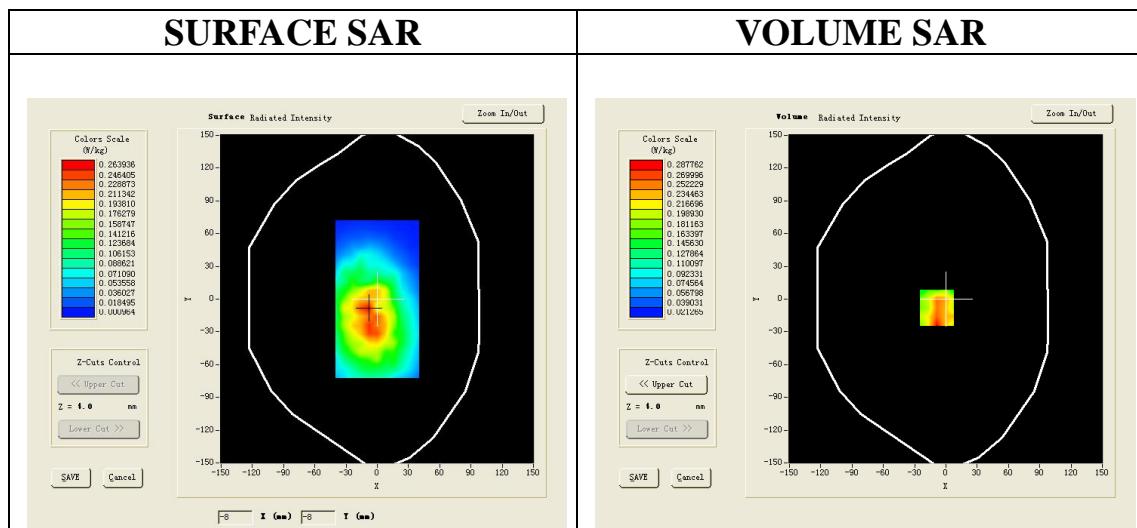
SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/03/2014; Serial No.:SN22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_01

Configuration/2.4GHz Low- Body- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm

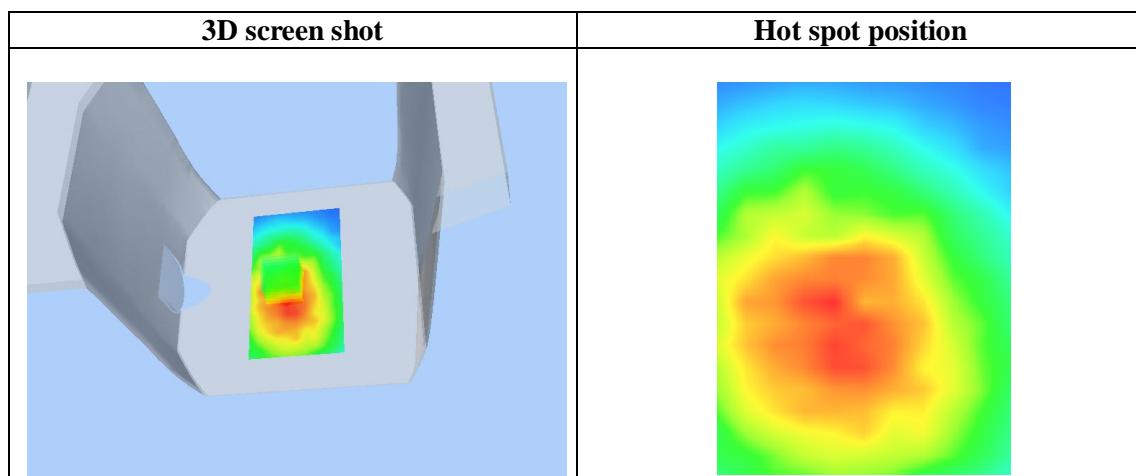
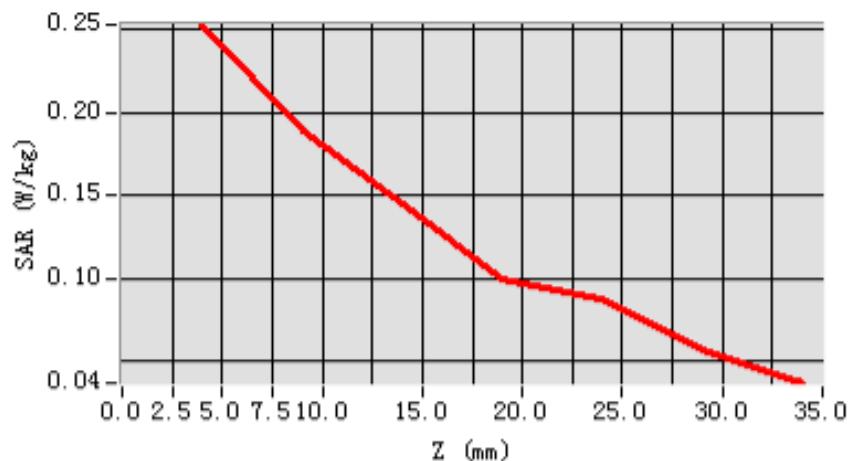
Configuration/2.4GHz Low- Body- Back /Zoom Scan: Measurement grid: dx=5mm, dy=5mm, dz=5mm;

Area Scan	surf_sam_plan.txt
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	2.4GHz
Channels	Low
Signal	Crest factor: 1.0



Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.2525	0.1885	0.1413	0.0946	0.0863	0.0575

SAR, Z Axis Scan (X = -9, Y = -8)



Date: May 25,2015

**Test Laboratory: AGC Lab
 2.4GHz Mid-Body-Back**
DUT: Digital Video Baby Monitor (Parent Unit) ; Type: MBP854CONNECTPU

Communication System: Wi-Fi; Communication System Band: 2450; Duty Cycle: 1:1; Conv.F=4.07;
 Frequency: 2440 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.90$ mho/m; $\epsilon_r = 53.41$; $\rho = 1000$ kg/m³ ;
 Phantom section: Flat Section
 Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.2

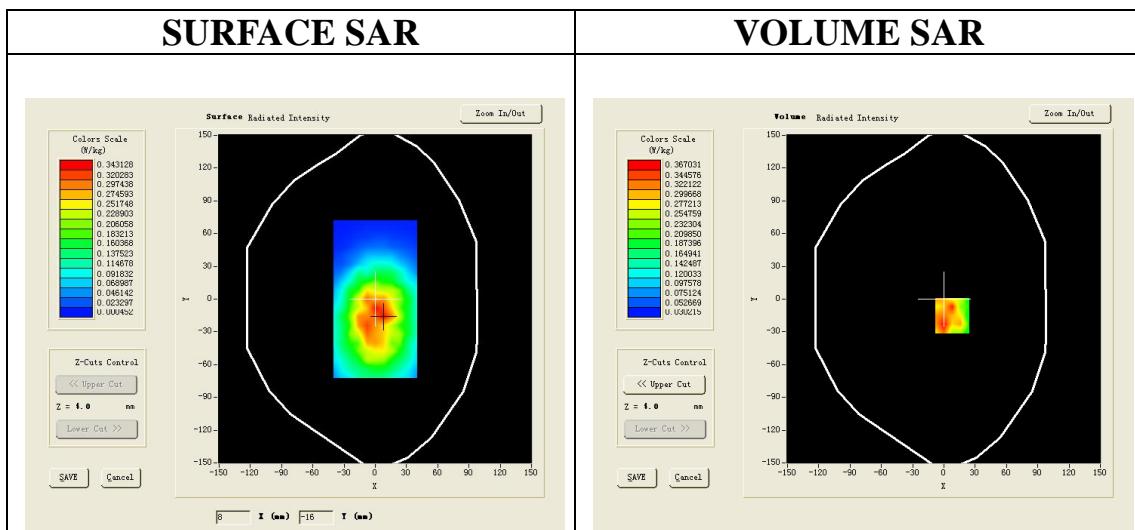
SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/03/2014; Serial No.:SN22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_01

Configuration/2.4GHz Mid- Body- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm

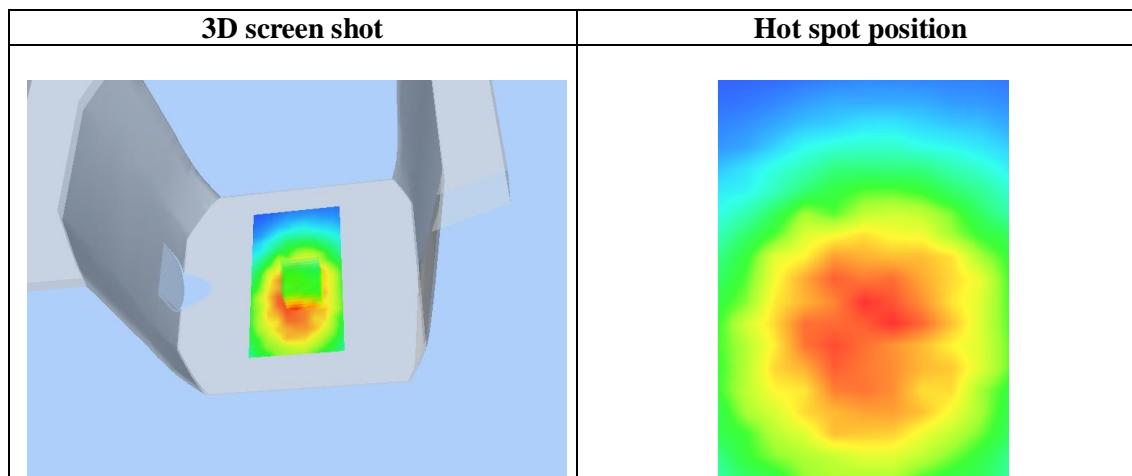
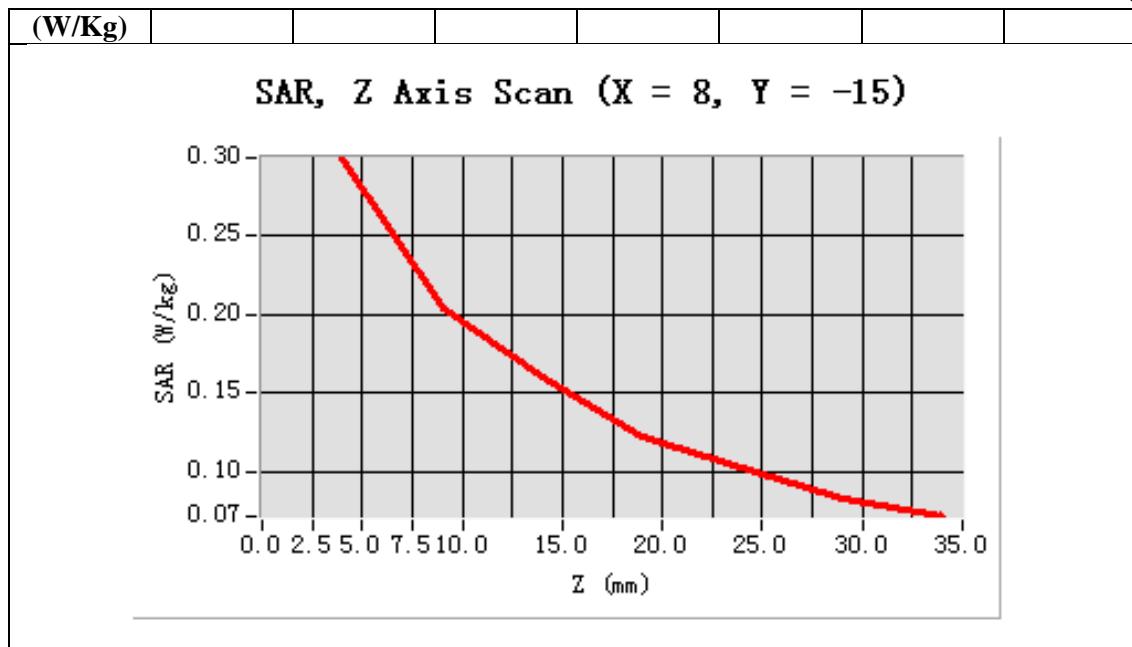
Configuration/2.4GHz Mid- Body- Back /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

Area Scan	surf_sam_plan.txt
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	2.4GHz
Channels	Middle
Signal	Crest factor: 1.0


Maximum location: X=8.00, Y=-15.00

SAR 10g (W/Kg)	0.229372
SAR 1g (W/Kg)	0.337251

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.2993	0.2045	0.1613	0.1221	0.1034	0.0837



Date: May 25,2015

Test Laboratory: AGC Lab
2.4GHz High-Body- Back
DUT: Digital Video Baby Monitor (Parent Unit) ; Type: MBP854CONNECTPU

Communication System: Wi-Fi; Communication System Band: 2450; Duty Cycle: 1:1; Conv.F=4.07;
 Frequency: 2479MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.90$ mho/m; $\epsilon_r = 53.41$; $\rho = 1000$ kg/m³ ;
 Phantom section: Flat Section
 Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.2

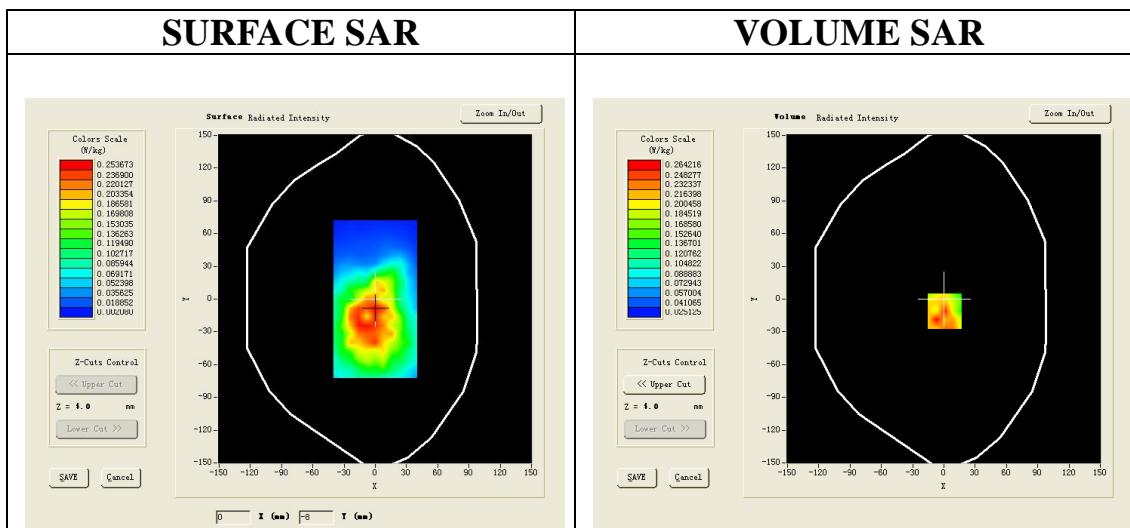
SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/03/2014; Serial No.:SN22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_01

Configuration/2.4GHz High- Body- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm

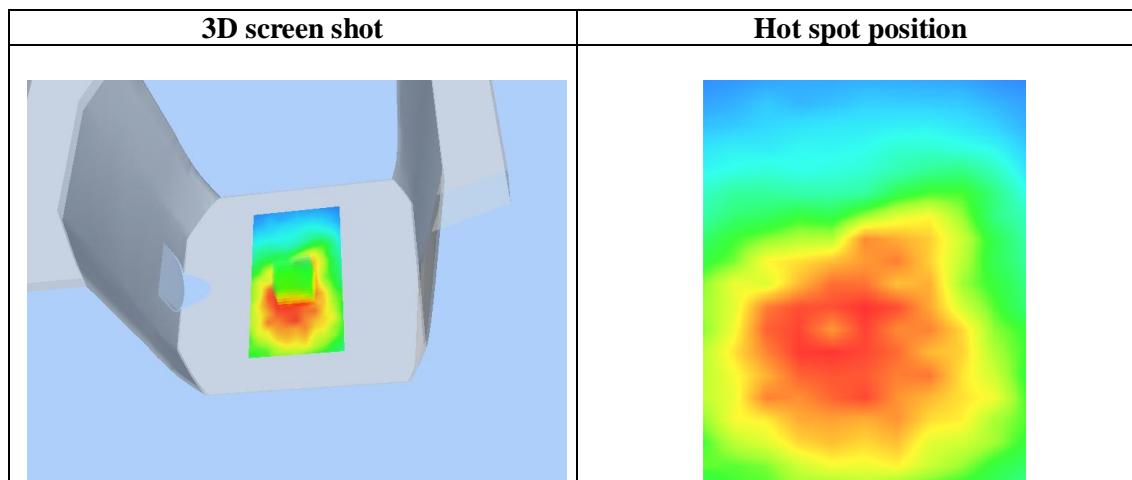
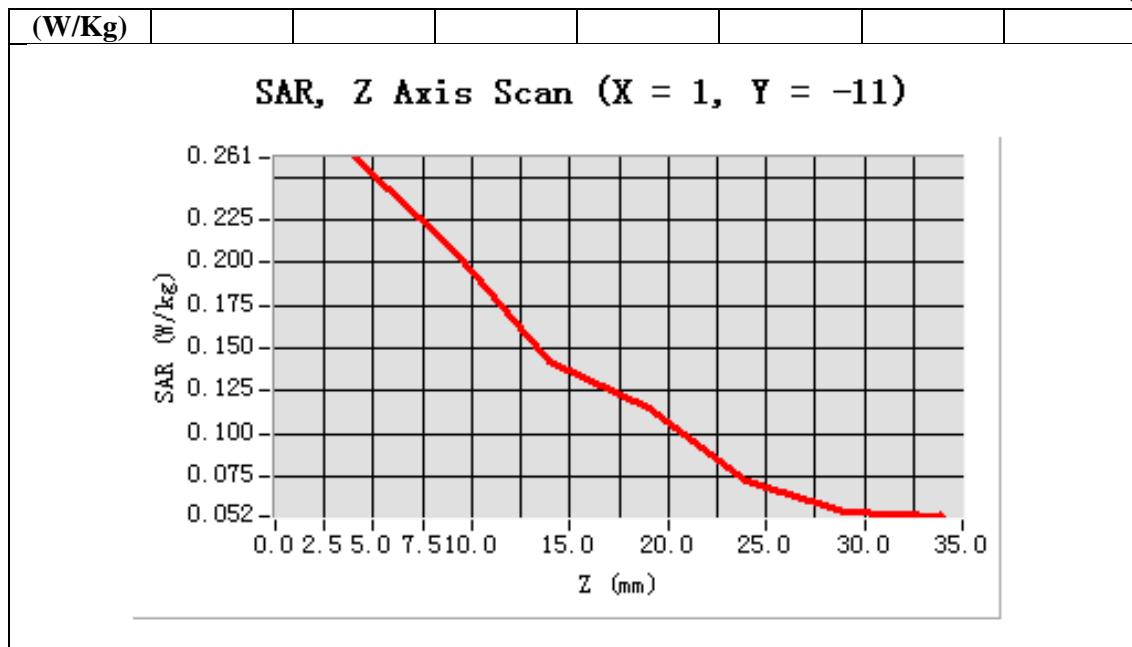
Configuration/2.4GHz High- Body- Back /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

Area Scan	surf_sam_plan.txt
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	2.4GHz
Channels	High
Signal	Crest factor: 1.0


Maximum location: X=1.00, Y=-11.00

SAR 10g (W/Kg)	0.172516
SAR 1g (W/Kg)	0.243075

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.2612	0.2076	0.1418	0.1147	0.0715	0.0539



Date: May 25,2015

Test Laboratory: AGC Lab
2.4GHz Mid-Body- Left
DUT: Digital Video Baby Monitor (Parent Unit) ; Type: MBP854CONNECTPU

Communication System: Wi-Fi; Communication System Band: 2450; Duty Cycle: 1:1; Conv.F=4.07;
 Frequency: 2440 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.90$ mho/m; $\epsilon_r = 53.41$; $\rho = 1000$ kg/m³ ;
 Phantom section: Flat Section
 Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.2

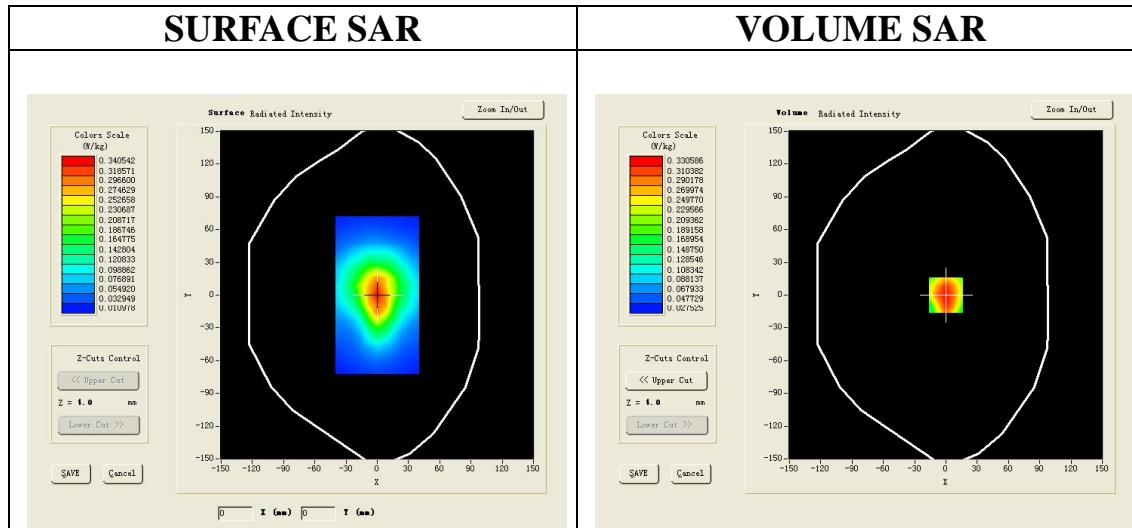
SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/03/2014; Serial No.:SN22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_01

Configuration/2.4GHz Mid-Body- Left/Area Scan: Measurement grid: dx=8mm, dy=8mm

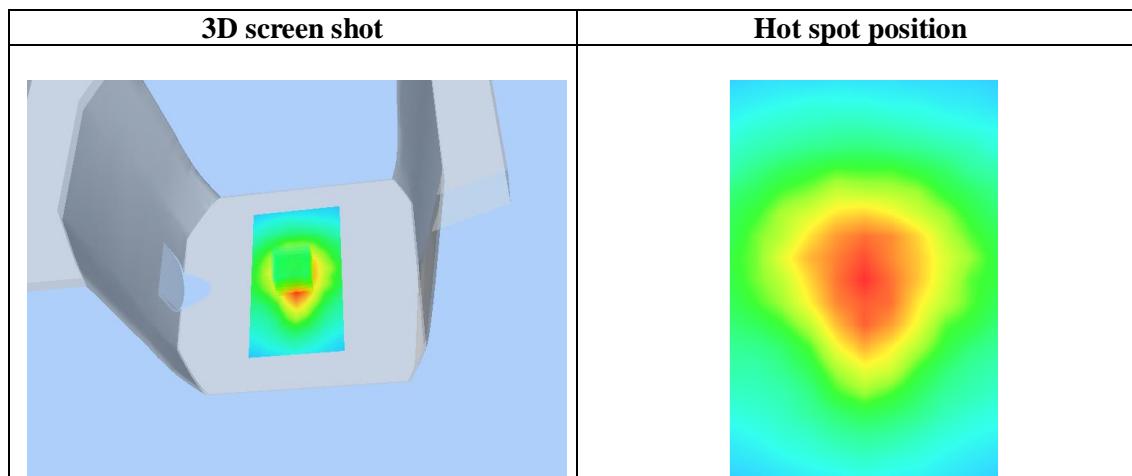
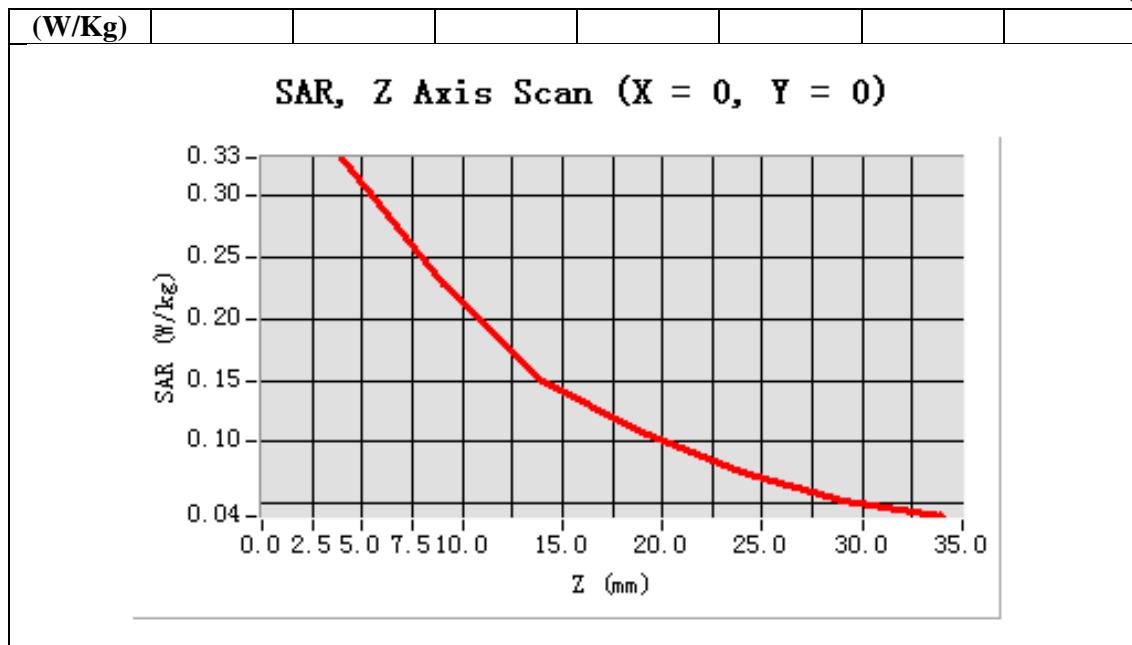
Configuration/2.4GHz Mid-Body- Left/Zoom Scan: Measurement grid: dx=5mm, dy=5mm, dz=5mm;

Area Scan	surf_sam_plan.txt
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body Left
Band	2.4GHz
Channels	Middle
Signal	Crest factor: 1.0


Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	0.198712
SAR 1g (W/Kg)	0.315361

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3303	0.2267	0.1489	0.1062	0.0747	0.0531



Test Laboratory: AGC Lab
2.4GHz Mid-Body- Right
DUT: Digital Video Baby Monitor (Parent Unit) ; Type: MBP854CONNECTPU

Communication System: Wi-Fi; Communication System Band: 2450; Duty Cycle: 1:1; Conv.F=4.07;
 Frequency: 2440 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.90$ mho/m; $\epsilon_r = 53.41$; $\rho = 1000$ kg/m³ ;
 Phantom section: Flat Section
 Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.2

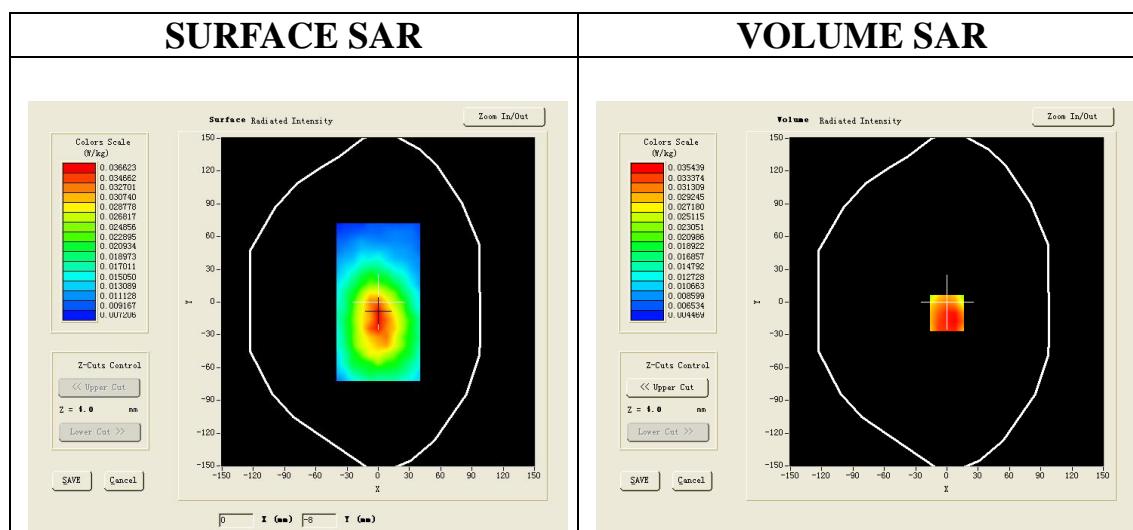
SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/03/2014; Serial No.:SN22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_01

Configuration/2.4GHz Mid-Body- Right/Area Scan: Measurement grid: dx=8mm, dy=8mm

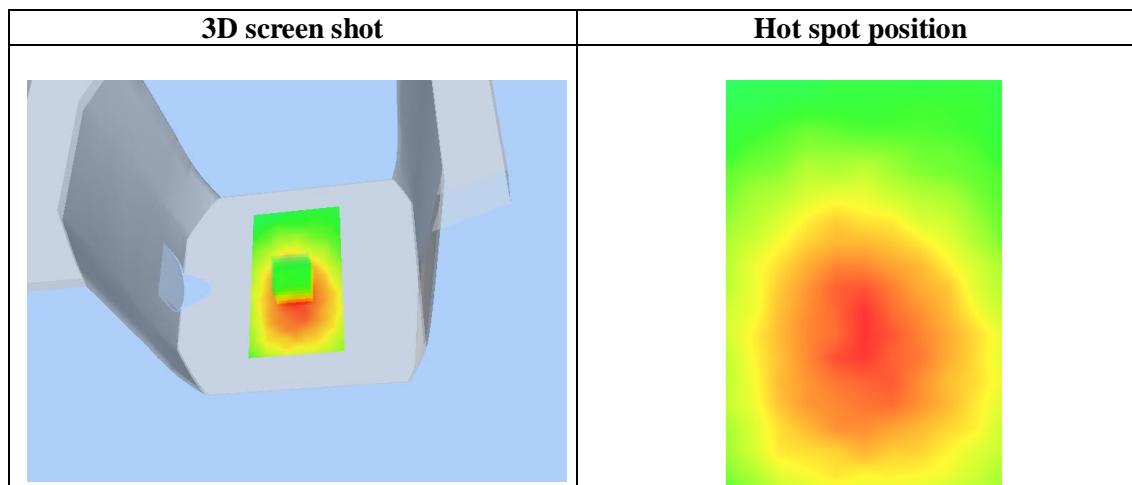
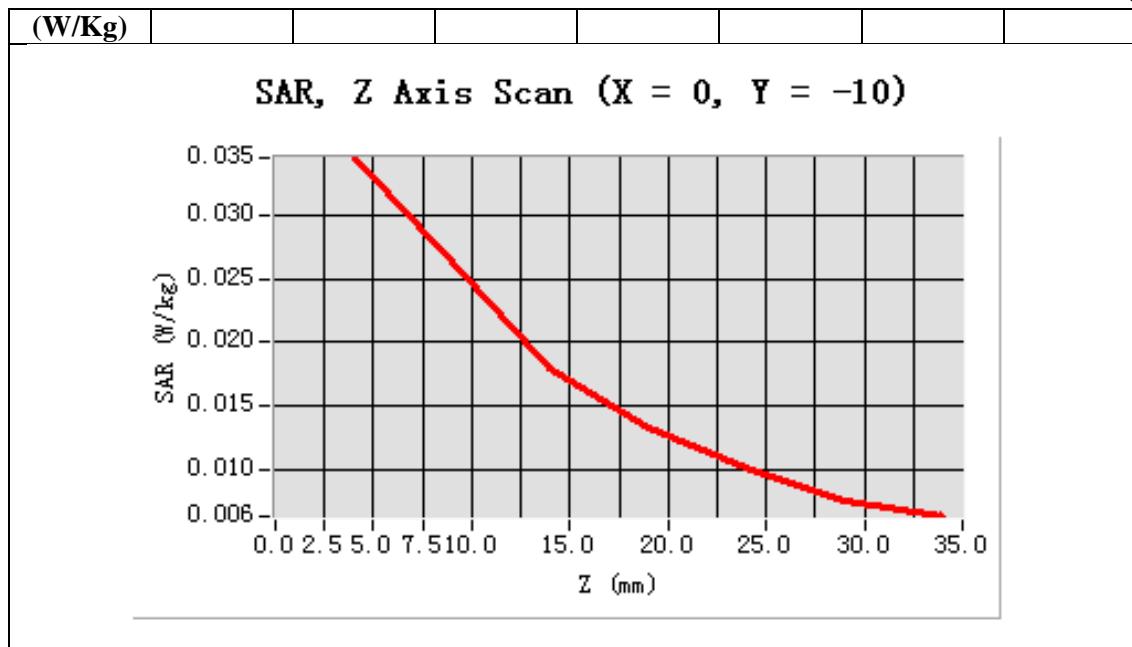
Configuration/2.4GHz Mid-Body- Right/Zoom Scan: Measurement grid: dx=5mm, dy=5mm, dz=5mm;

Area Scan	surf_sam_plan.txt
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body Right
Band	2.4GHz
Channels	Middle
Signal	Crest factor: 1.0



SAR 10g (W/Kg)	0.023516
SAR 1g (W/Kg)	0.034172

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.0351	0.0263	0.0175	0.0141	0.0102	0.0075



Date: May 25,2015

**Test Laboratory: AGC Lab
 2.4GHz Mid-Body-Bottom**
DUT: Digital Video Baby Monitor (Parent Unit) ; Type: MBP854CONNECTPU

Communication System: Wi-Fi; Communication System Band: 2450; Duty Cycle: 1:1; Conv.F=4.07;
 Frequency: 2440 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.90$ mho/m; $\epsilon_r = 53.41$; $\rho = 1000$ kg/m³ ;
 Phantom section: Flat Section
 Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.2

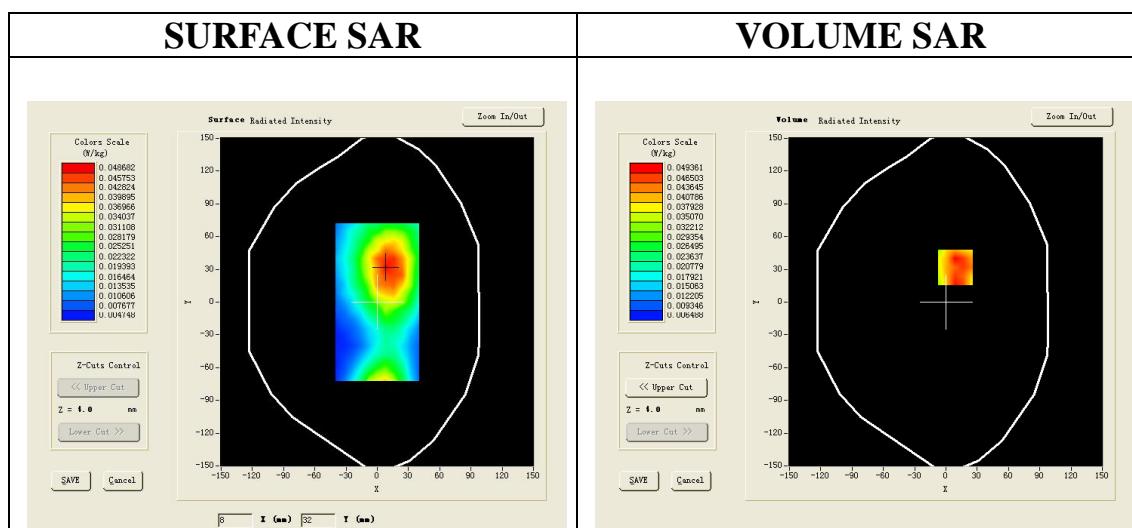
SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/03/2014; Serial No.:SN22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_01

Configuration/2.4GHz Mid-Body-Bottom/Area Scan: Measurement grid: dx=8mm, dy=8mm

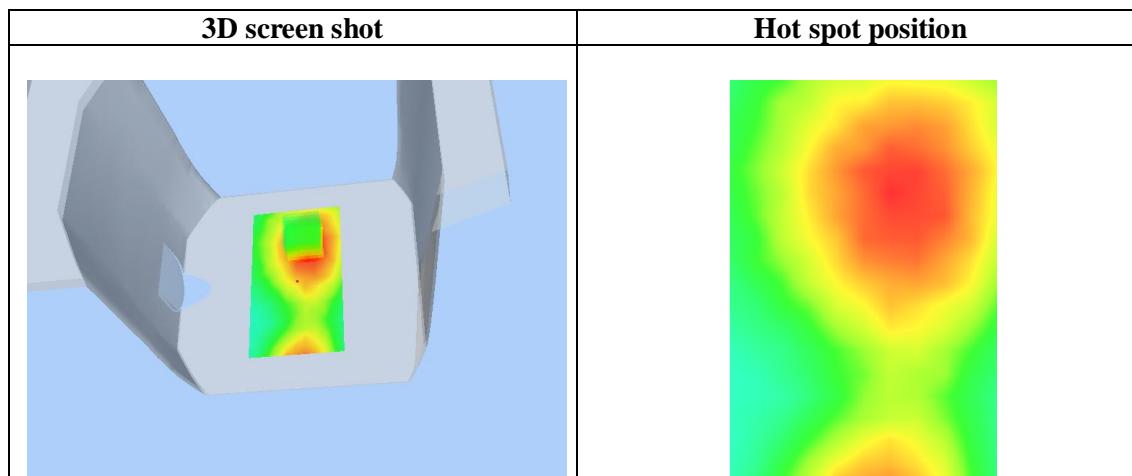
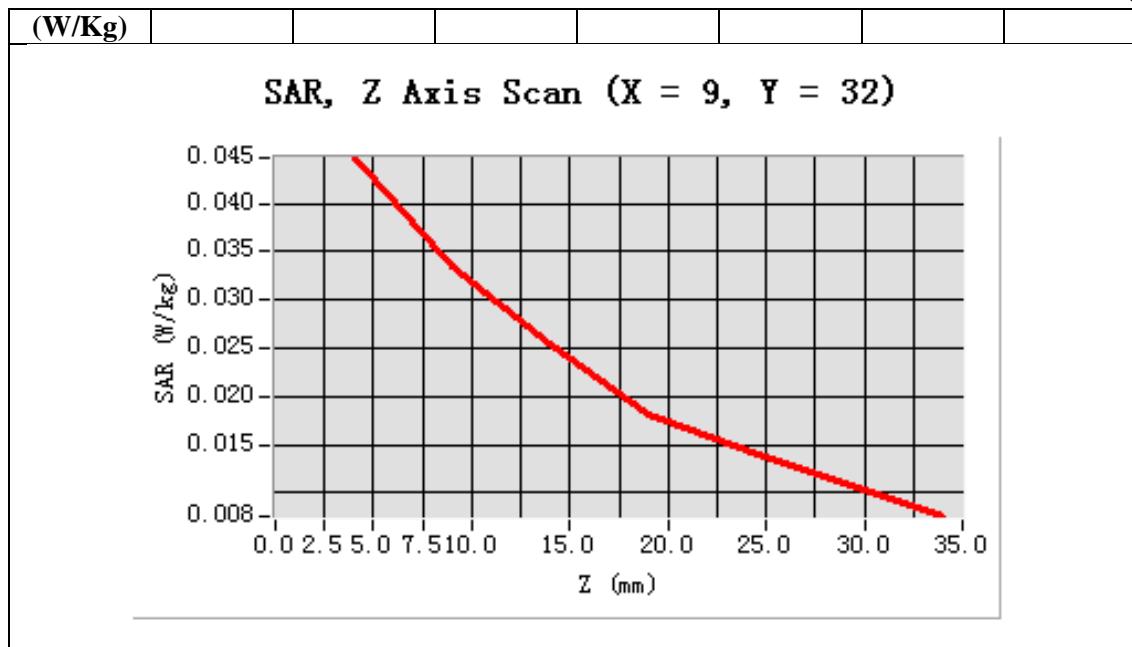
Configuration/2.4GHz Mid-Body-Bottom/Zoom Scan: Measurement grid: dx=5mm, dy=5mm, dz=5mm;

Area Scan	surf_sam_plan.txt
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body Bottom
Band	2.4GHz
Channels	Middle
Signal	Crest factor: 1.0



SAR 10g (W/Kg)	0.031735
SAR 1g (W/Kg)	0.046374

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.0446	0.0335	0.0251	0.0176	0.0137	0.0109



Antenna Closed
Test Laboratory: AGC Lab
2.4GHz Low-Body- Back
DUT: Digital Video Baby Monitor (Parent Unit) ; Type: MBP854CONNECTPU
Date: May 25,2015

Communication System: Wi-Fi; Communication System Band: 2450; Duty Cycle: 1:1; Conv.F=4.07;
 Frequency: 2402MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.90$ mho/m; $\epsilon_r = 53.41$; $\rho = 1000$ kg/m³ ;
 Phantom section: Flat Section
 Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.2

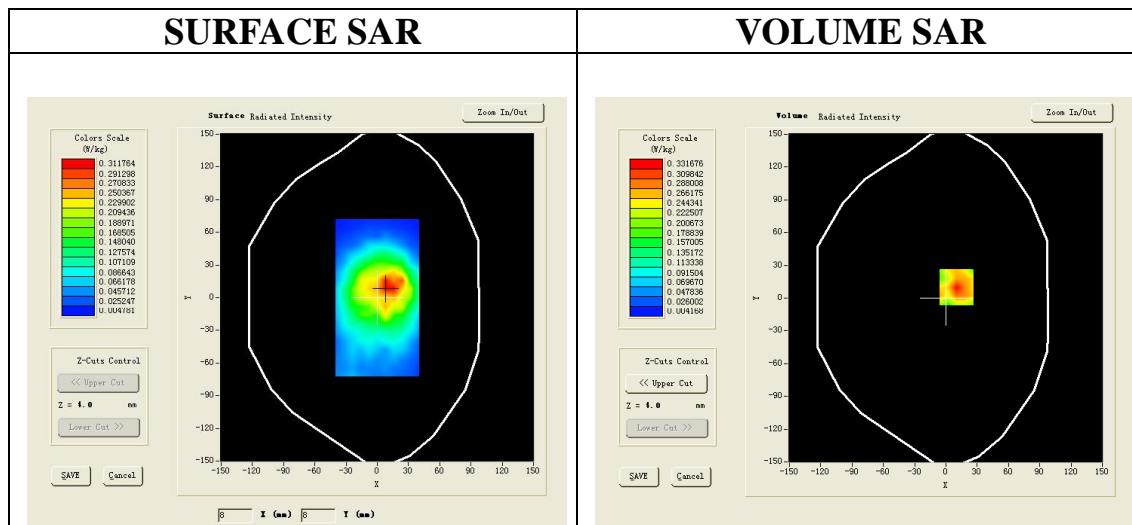
SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/03/2014; Serial No.:SN22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_01

Configuration/2.4GHz Low- Body- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm

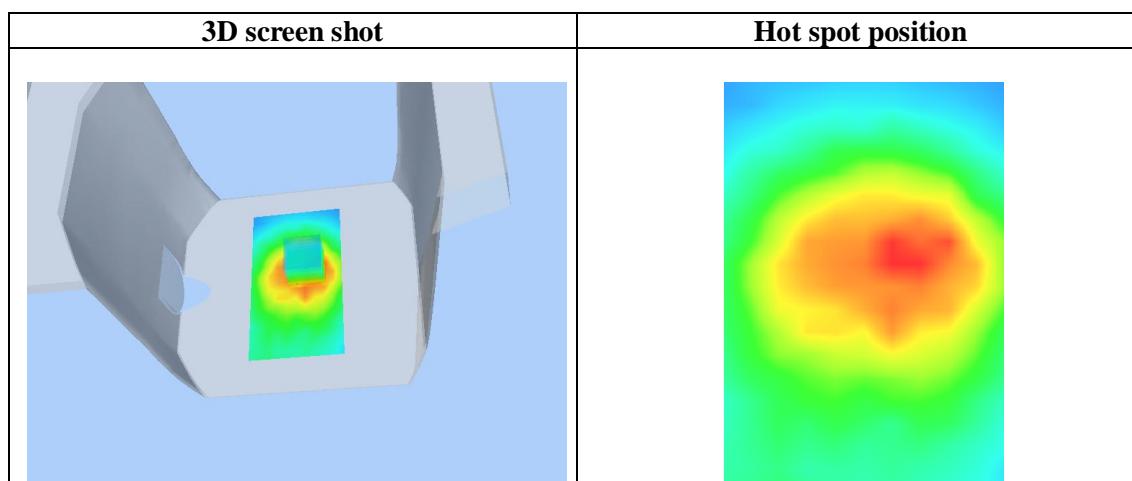
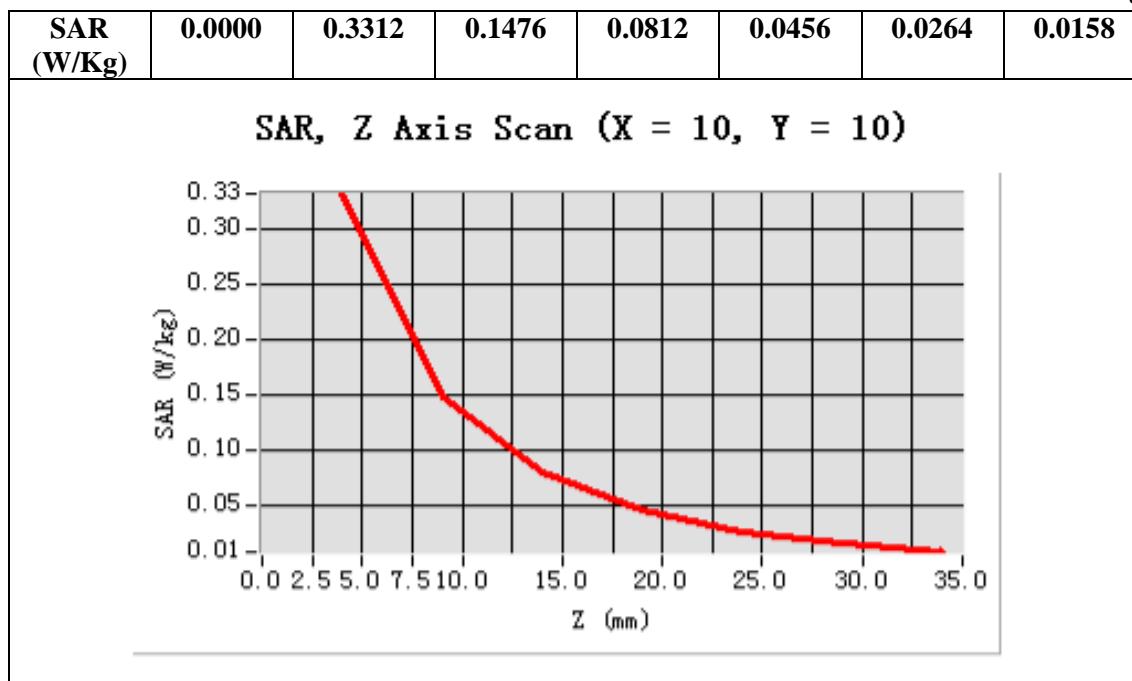
Configuration/2.4GHz Low- Body- Back /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

Area Scan	surf_sam_plan.txt
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	2.4GHz
Channels	Low
Signal	Crest factor: 1.0


Maximum location: X=10.00, Y=10.00

SAR 10g (W/Kg)	0.165127
SAR 1g (W/Kg)	0.322507

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
---------------	------	------	------	-------	-------	-------	-------



Date: May 25,2015

**Test Laboratory: AGC Lab
 2.4GHz Mid-Body-Back**
DUT: Digital Video Baby Monitor (Parent Unit) ; Type: MBP854CONNECTPU

Communication System: Wi-Fi; Communication System Band: 2450; Duty Cycle: 1:1; Conv.F=4.07;
 Frequency: 2440 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.90$ mho/m; $\epsilon_r = 53.41$; $\rho = 1000$ kg/m³ ;
 Phantom section: Flat Section
 Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.2

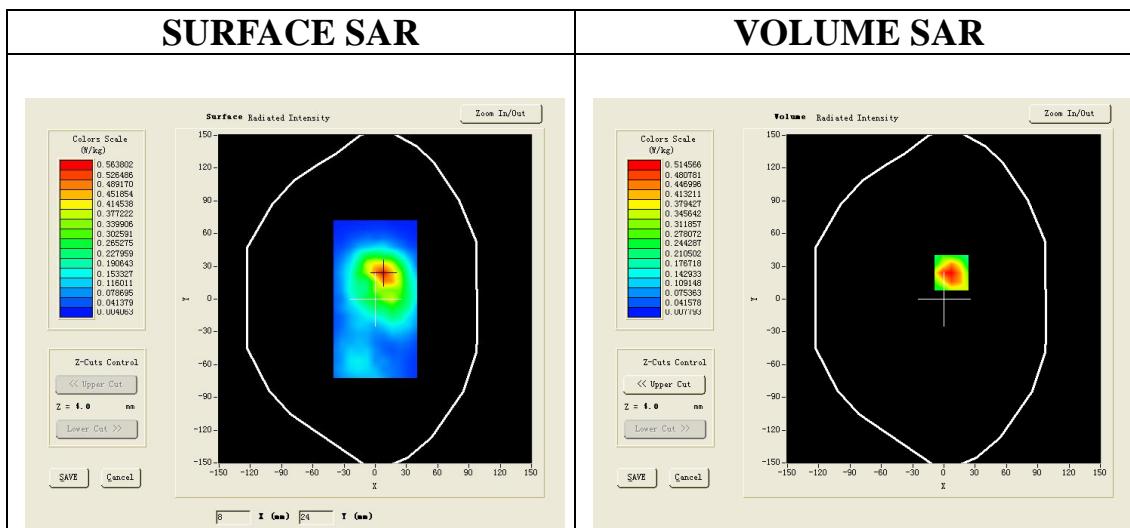
SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/03/2014; Serial No.:SN22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_01

Configuration/2.4GHz Mid- Body- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm

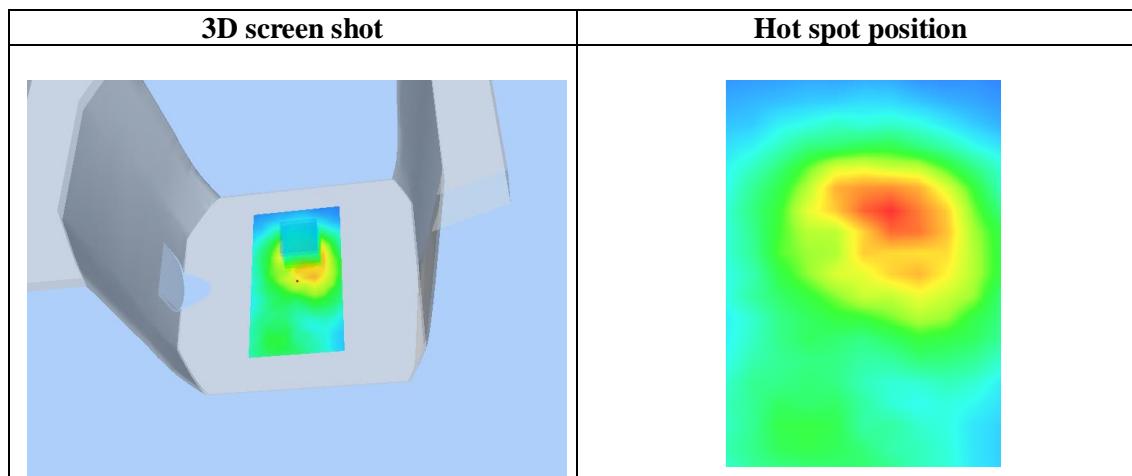
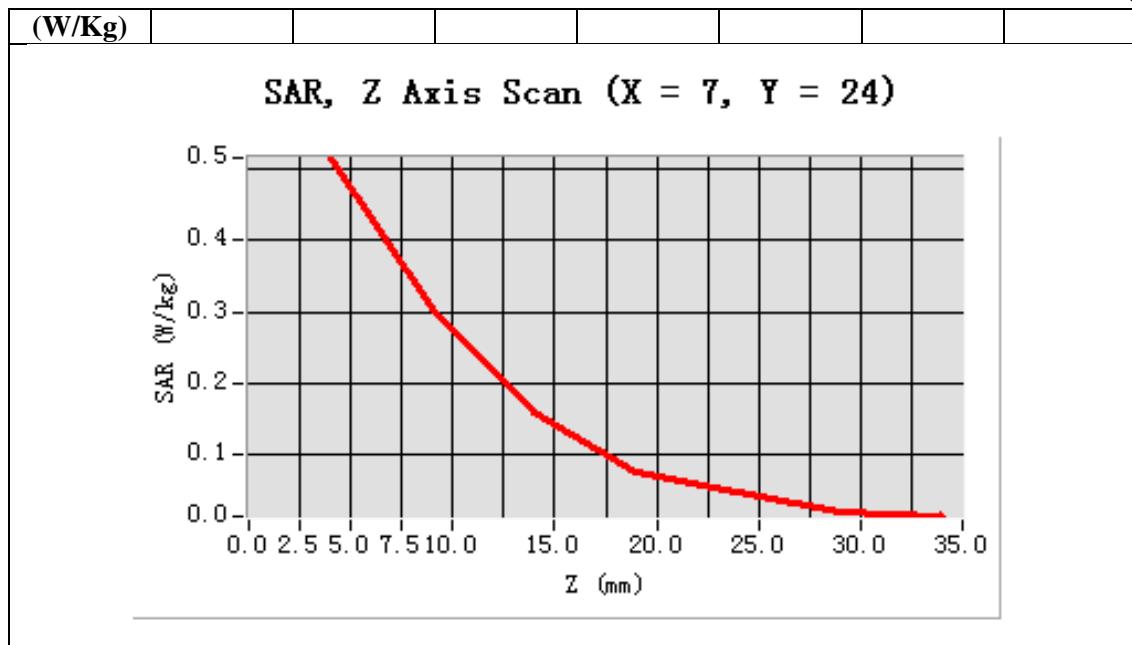
Configuration/2.4GHz Mid- Body- Back /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

Area Scan	surf_sam_plan.txt
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	2.4GHz
Channels	Middle
Signal	Crest factor: 1.0


Maximum location: X=7.00, Y=24.00

SAR 10g (W/Kg)	0.261752
SAR 1g (W/Kg)	0.493052

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.5142	0.3035	0.1612	0.0782	0.0493	0.0233



Date: May 25,2015

Test Laboratory: AGC Lab
2.4GHz High-Body- Back
DUT: Digital Video Baby Monitor (Parent Unit) ; Type: MBP854CONNECTPU

Communication System: Wi-Fi; Communication System Band: 2450; Duty Cycle: 1:1; Conv.F=4.07;
 Frequency: 2479MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.90$ mho/m; $\epsilon_r = 53.41$; $\rho = 1000$ kg/m³ ;
 Phantom section: Flat Section
 Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.2

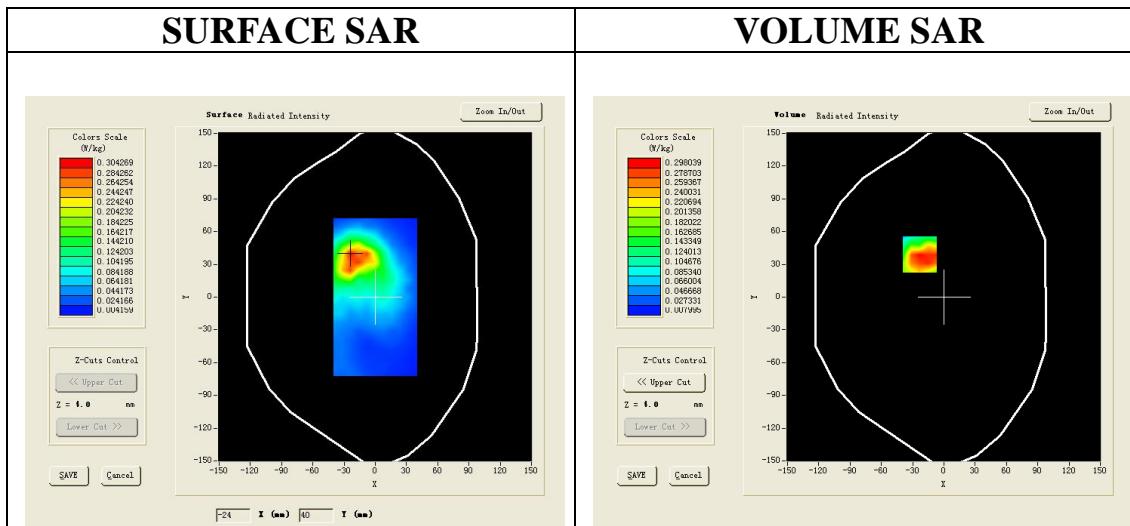
SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/03/2014; Serial No.:SN22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_01

Configuration/2.4GHz High- Body- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm

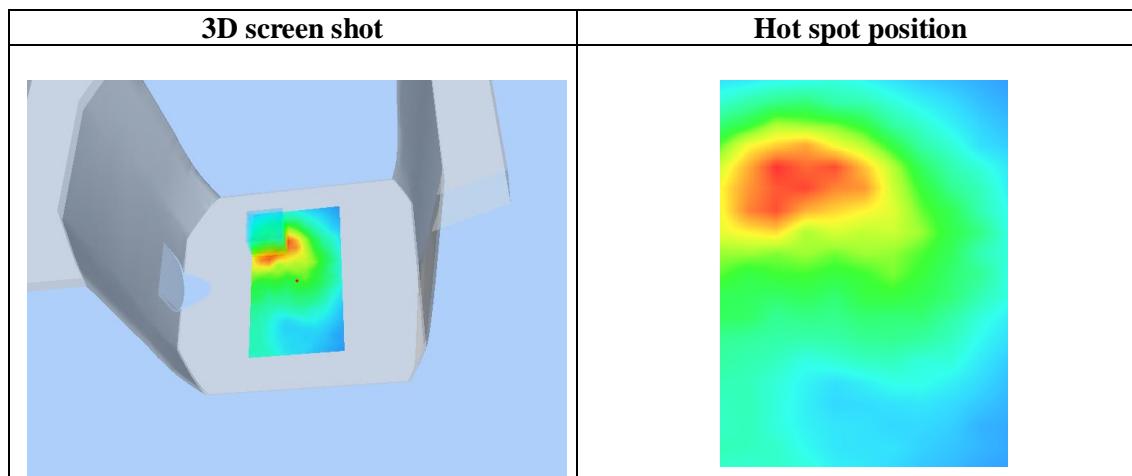
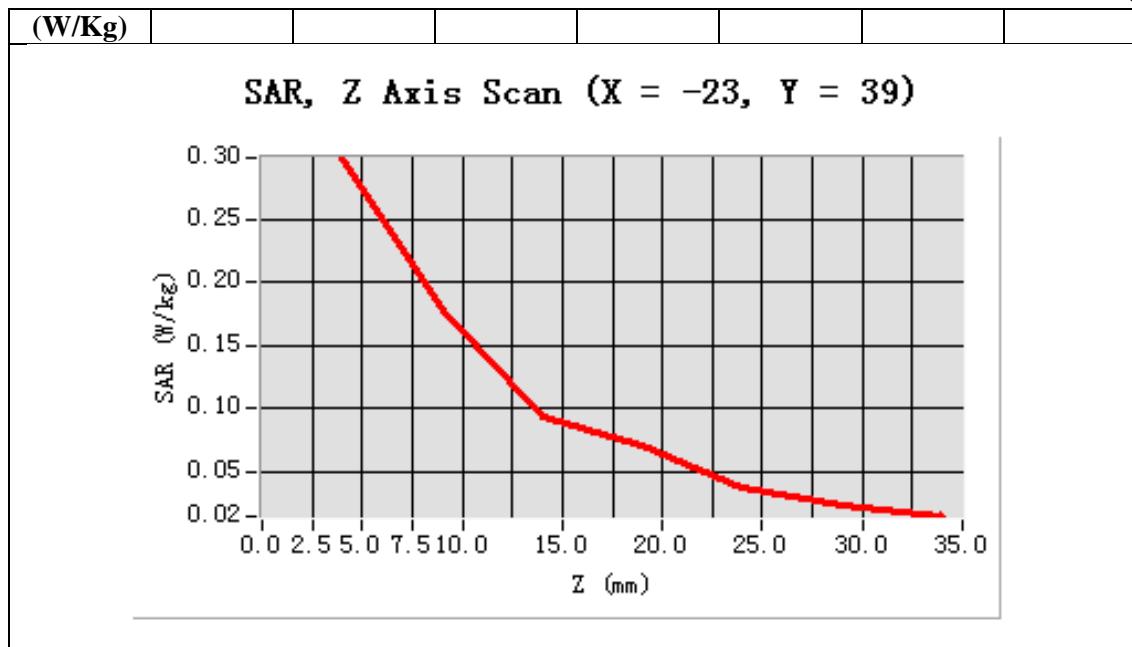
Configuration/2.4GHz High- Body- Back /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

Area Scan	surf_sam_plan.txt
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	2.4GHz
Channels	High
Signal	Crest factor: 1.0


Maximum location: X=-23.00, Y=39.00

SAR 10g (W/Kg)	0.165361
SAR 1g (W/Kg)	0.312751

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.2975	0.1772	0.0935	0.0715	0.0369	0.0238



Test Laboratory: AGC Lab
2.4GHz Mid-Body- Left
DUT: Digital Video Baby Monitor (Parent Unit) ; Type: MBP854CONNECTPU

Communication System: Wi-Fi; Communication System Band: 2450; Duty Cycle: 1:1; Conv.F=4.07;
 Frequency: 2440 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.90$ mho/m; $\epsilon_r = 53.41$; $\rho = 1000$ kg/m³ ;
 Phantom section: Flat Section
 Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.2

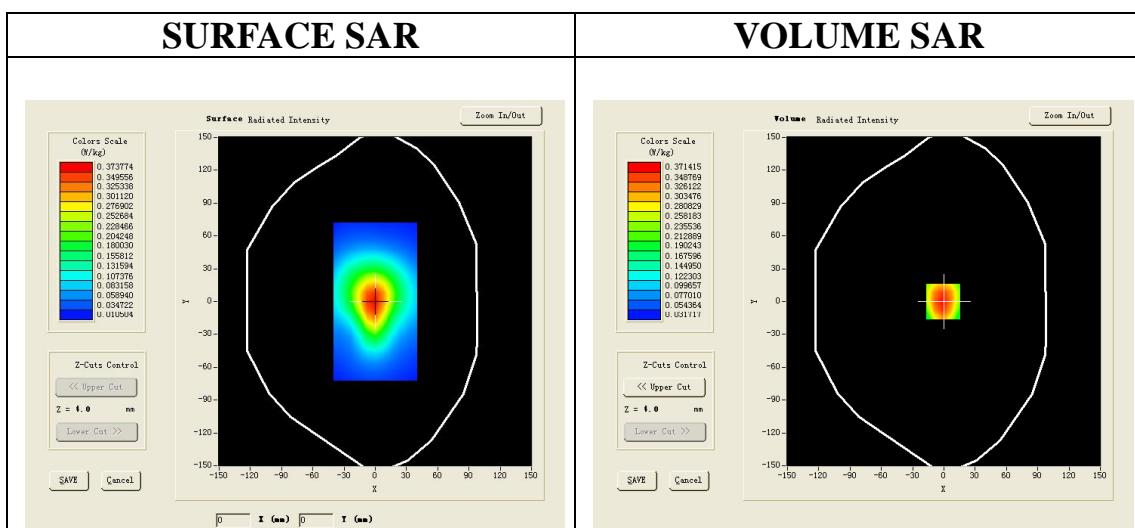
SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/03/2014; Serial No.:SN22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_01

Configuration/2.4GHz Mid-Body- Left /Area Scan: Measurement grid: dx=8mm, dy=8mm

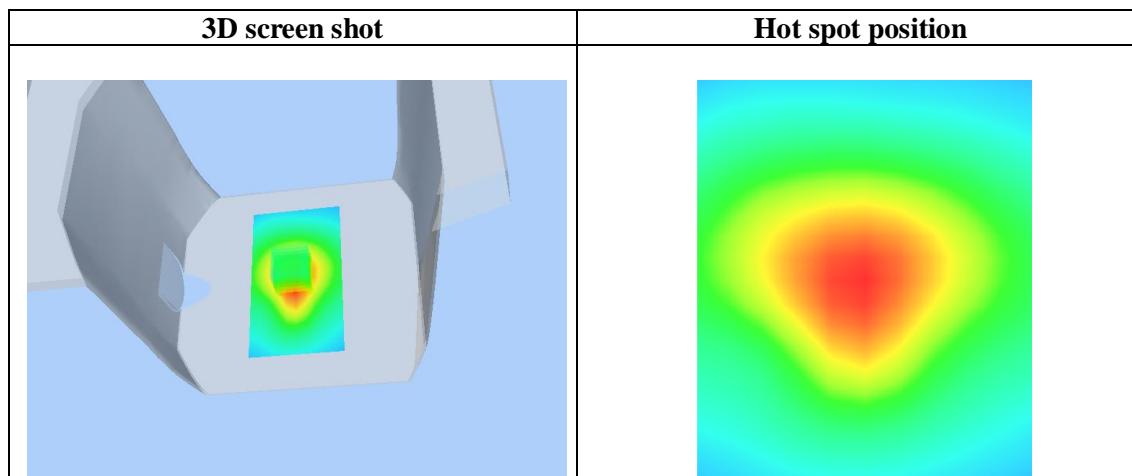
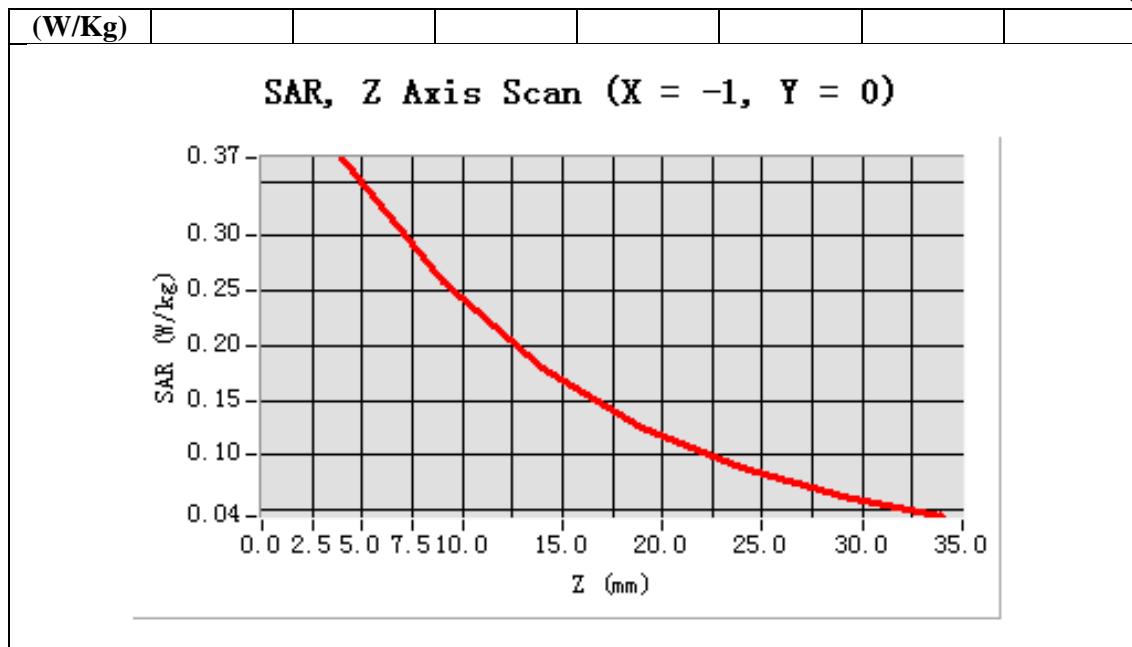
Configuration/2.4GHz Mid-Body- Left /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

Area Scan	surf_sam_plan.txt
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body Left
Band	2.4GHz
Channels	Middle
Signal	Crest factor: 1.0


Maximum location: X=-1.00, Y=0.00

SAR 10g (W/Kg)	0.233571
SAR 1g (W/Kg)	0.354576

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3715	0.2575	0.1783	0.1262	0.0878	0.0623



Date: May 25,2015

Test Laboratory: AGC Lab
2.4GHz Mid-Body- Right
DUT: Digital Video Baby Monitor (Parent Unit) ; Type: MBP854CONNECTPU

Communication System: Wi-Fi; Communication System Band: 2450; Duty Cycle: 1:1; Conv.F=4.07;
 Frequency: 2440 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.90$ mho/m; $\epsilon_r = 53.41$; $\rho = 1000$ kg/m³ ;
 Phantom section: Flat Section
 Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.2

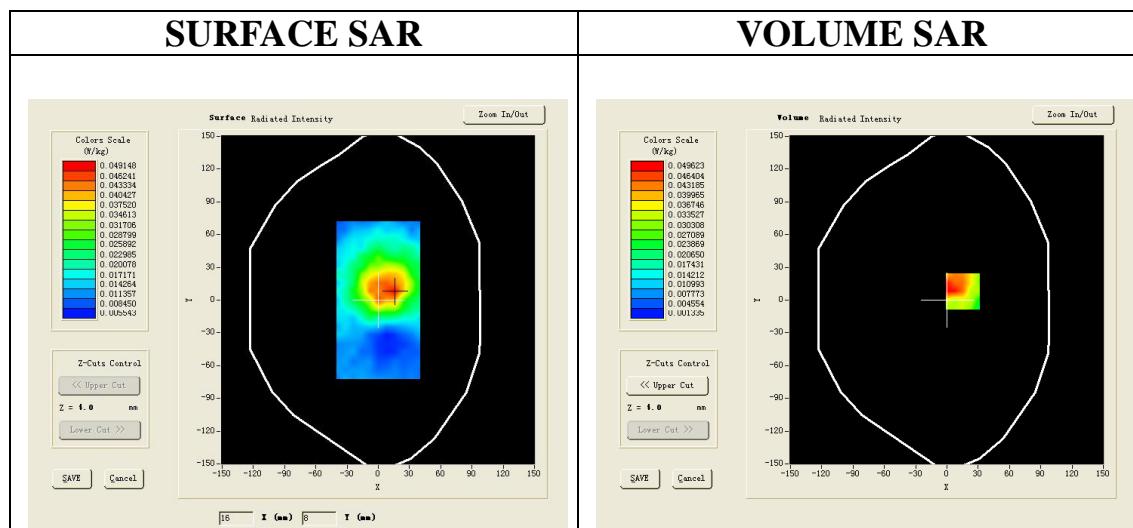
SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/03/2014; Serial No.:SN22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_01

Configuration/2.4GHz Mid-Body- Right /Area Scan: Measurement grid: dx=8mm, dy=8mm

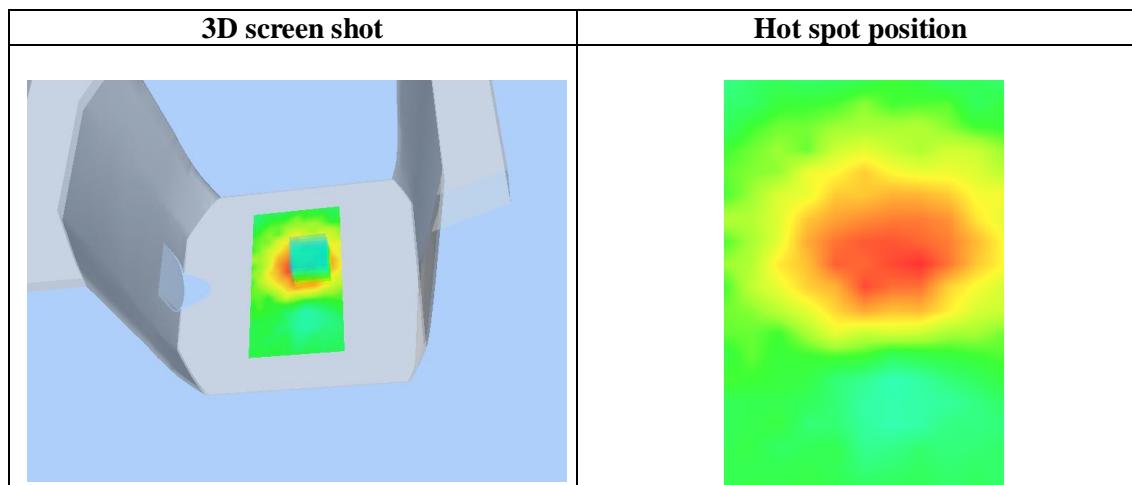
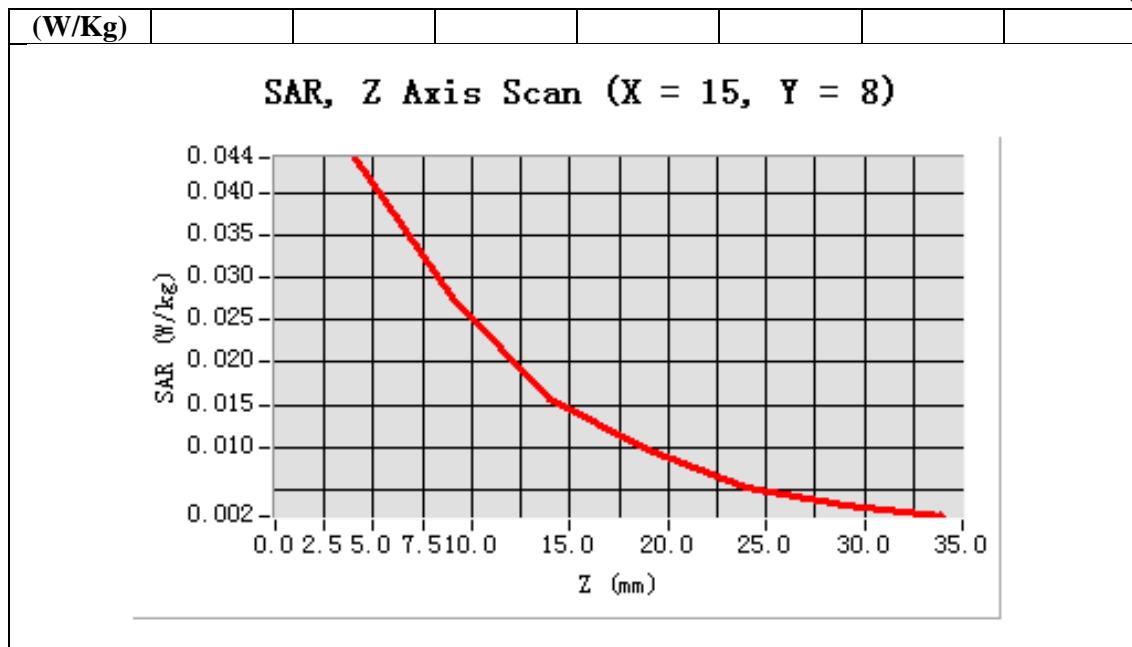
Configuration/2.4GHz Mid-Body- Right /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

Area Scan	surf_sam_plan.txt
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body Right
Band	2.4GHz
Channels	Middle
Signal	Crest factor: 1.0


Maximum location: X=15.00, Y=8.00

SAR 10g (W/Kg)	0.026782
SAR 1g (W/Kg)	0.048624

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.0451	0.0263	0.0152	0.0088	0.0046	0.0035



Test Laboratory: AGC Lab
2.4GHz Mid-Body- Top
DUT: Digital Video Baby Monitor (Parent Unit) ; Type: MBP854CONNECTPU

Communication System: Wi-Fi; Communication System Band: 2450; Duty Cycle: 1:1; Conv.F=4.07;
 Frequency: 2440 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.90$ mho/m; $\epsilon_r = 53.41$; $\rho = 1000$ kg/m³ ;
 Phantom section: Flat Section
 Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.2

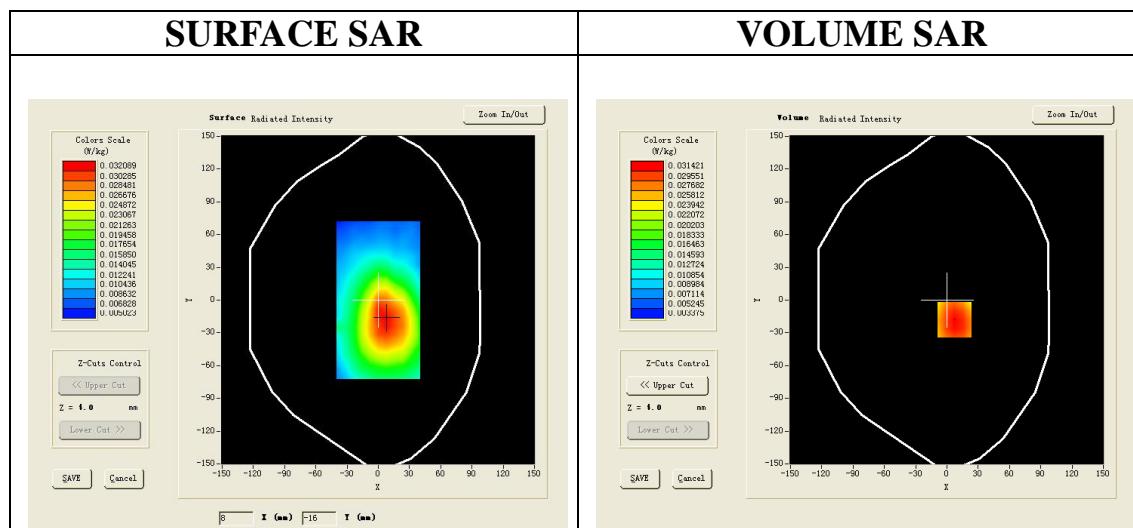
SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/03/2014; Serial No.:SN22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_01

Configuration/2.4GHz Mid-Body- Top /Area Scan: Measurement grid: dx=8mm, dy=8mm

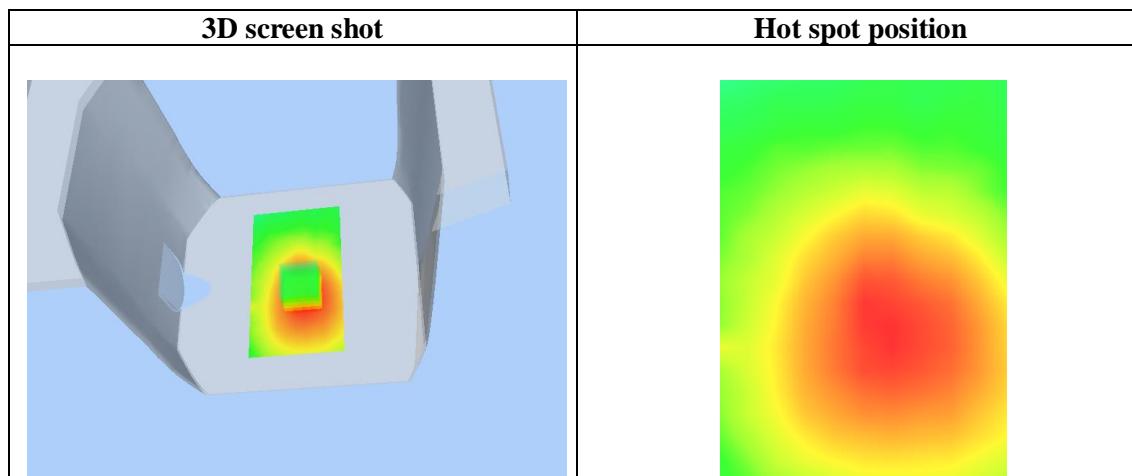
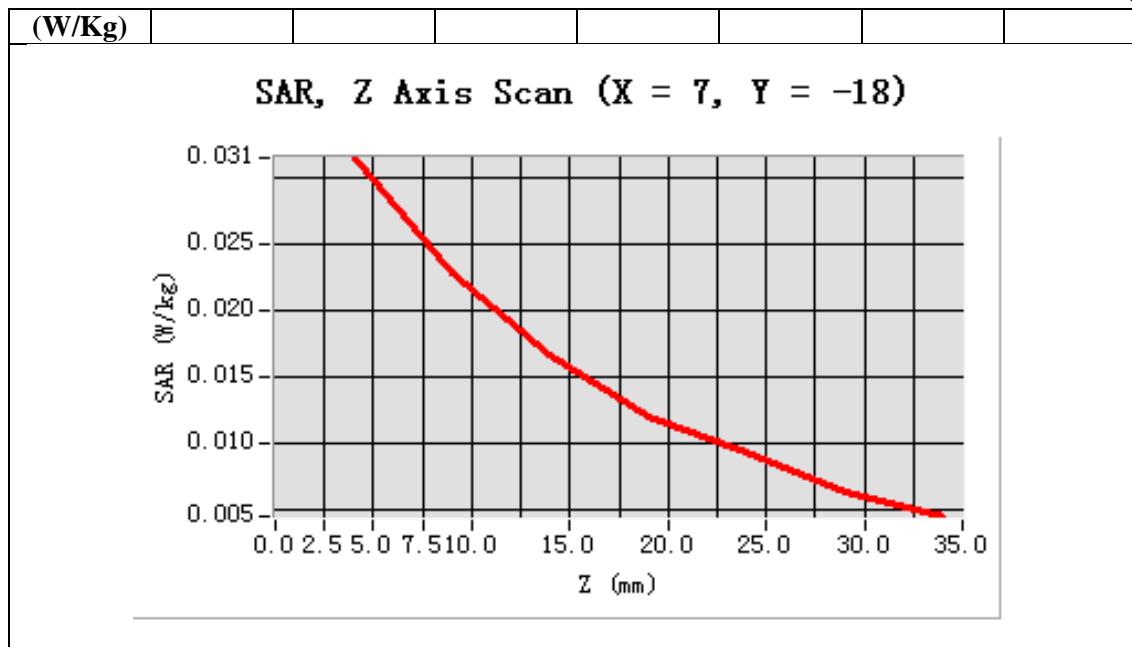
Configuration/2.4GHz Mid-Body- Top /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

Area Scan	surf_sam_plan.txt
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body Top
Band	2.4GHz
Channels	Middle
Signal	Crest factor: 1.0


Maximum location: X=7.00, Y=-18.00

SAR 10g (W/Kg)	0.020273
SAR 1g (W/Kg)	0.031073

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.0305	0.0231	0.0157	0.0125	0.0087	0.0059



**Test Laboratory: AGC Lab
 2.4GHz Mid-Body- Bottom**
DUT: Digital Video Baby Monitor (Parent Unit) ; Type: MBP854CONNECTPU

Communication System: Wi-Fi; Communication System Band: 2450; Duty Cycle: 1:1; Conv.F=4.07;
 Frequency: 2440 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.90$ mho/m; $\epsilon_r = 53.41$; $\rho = 1000$ kg/m³ ;
 Phantom section: Flat Section
 Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.2

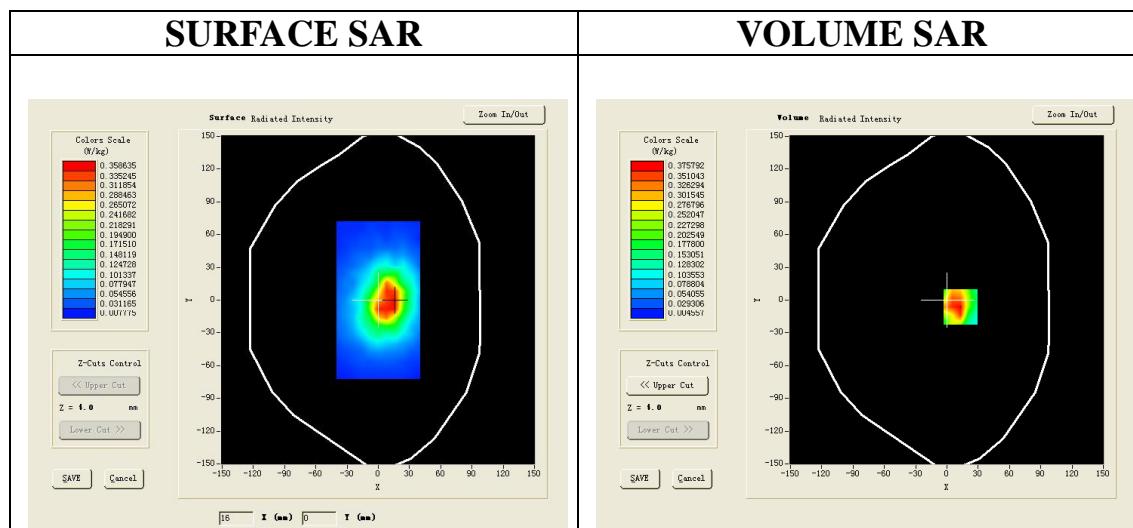
SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/03/2014; Serial No.:SN22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_01

Configuration/2.4GHz Mid-Body- Bottom /Area Scan: Measurement grid: dx=8mm, dy=8mm

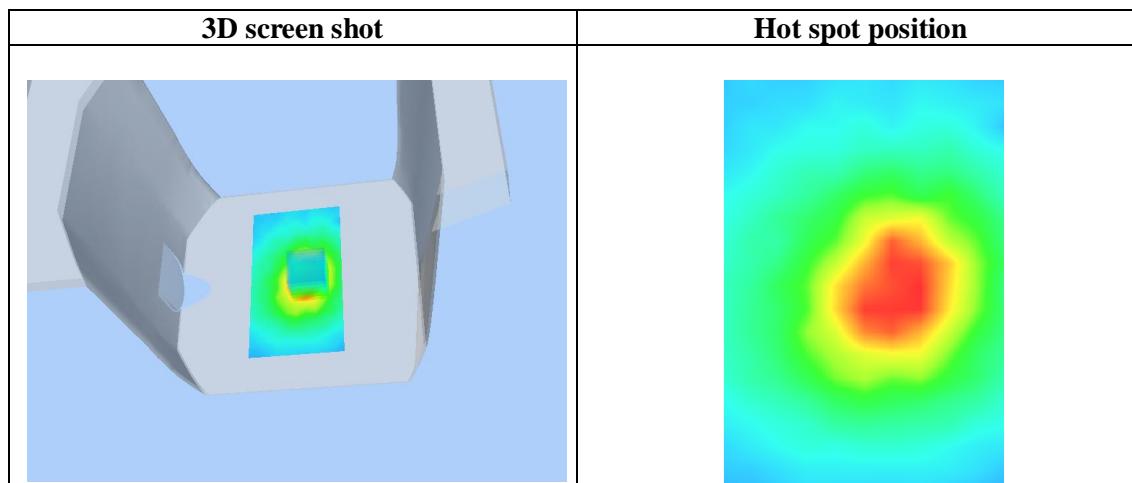
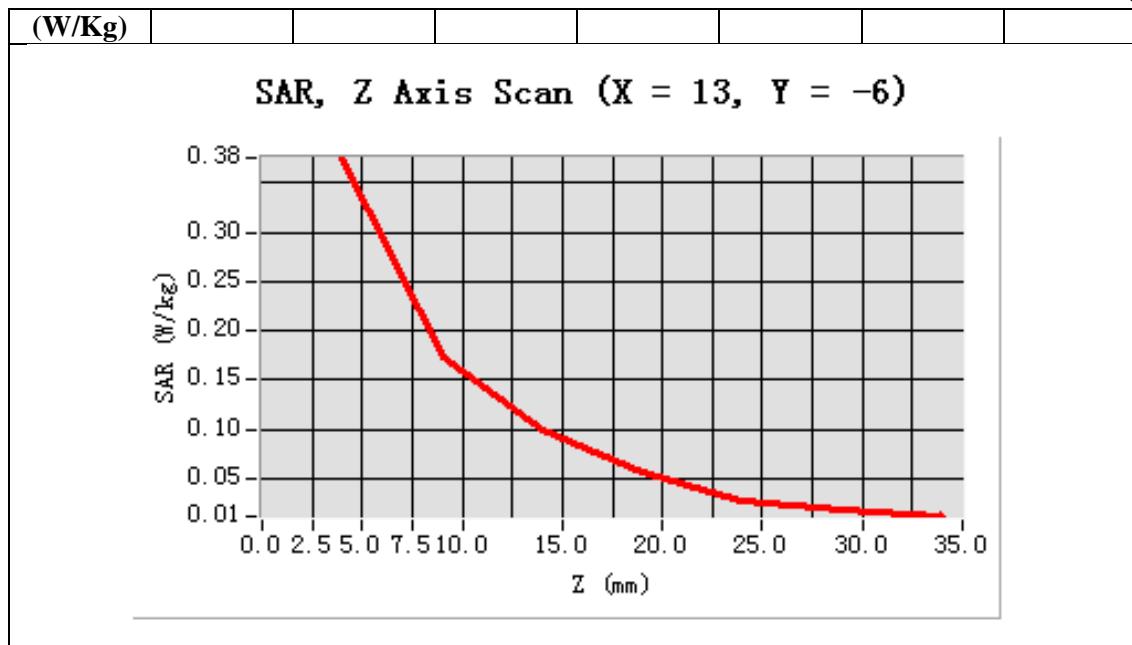
Configuration/2.4GHz Mid-Body- Bottom /Zoom Scan: Measurement grid: dx=5mm, dy=5mm, dz=5mm;

Area Scan	surf_sam_plan.txt
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body Bottom
Band	2.4GHz
Channels	Middle
Signal	Crest factor: 1.0


Maximum location: X=13.00, Y=-6.00

SAR 10g (W/Kg)	0.185792
SAR 1g (W/Kg)	0.378617

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3762	0.1731	0.0979	0.0576	0.0269	0.0192





Report No.: 60.870.15.005.01S
Page 53 of 53

APPENDIX C. TEST SETUP PHOTOGRAPHS &EUT PHOTOGRAPHS

Refer to Attached files.

APPENDIX D. CALIBRATION DATA

Refer to Attached files.