

FCC

SAR

TEST REPORT

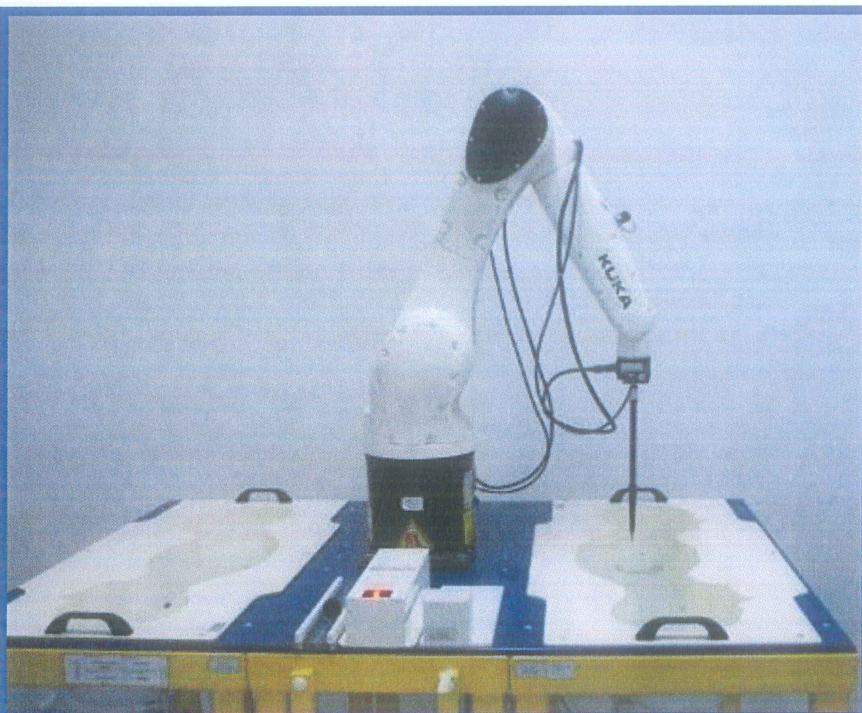
ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
Tablet PC

ISSUED TO
Shenzhen Jingwah Information Technology Co., Ltd.

4F, Bldg 4, Jinghua Square, No.1 Huafa North Road, Futian District,
Shenzhen, China



Tested by: Zong Liyao
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Date Sep. 25, 2018

Approved by: Wei Yanquan
Wei Yanquan
(Chief Engineer)

Date Sep. 25, 2018

Report No.: BL-SZ1870290-701

EUT Name: Tablet PC

Model Name: BNTV450 (refer section 2.4)

Brand Name: NOOK

FCC ID: RBD-BNTV450

Test Standard: FCC 47 CFR Part 2.1093

ANSI C95.1: 1999

IEEE 1528: 2013

Maximum SAR: Body (1 g): 1.163 W/kg

Test Conclusion: Pass

Test Date: Sep. 27, 2016 ~ Jul. 28, 2018

Date of Issue: Sep. 25, 2018

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Revision History

<u>Version</u>	<u>Issue Date</u>	<u>Revisions Content</u>
<u>Rev. 01</u>	<u>Sep. 25, 2018</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100
Fax Number	+86 755 6182 4271

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	<p>The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1.</p> <p>The laboratory has been listed by US Federal Communications Commission to perform electromagnetic emission measurements. The recognition numbers of test site are 832625.</p> <p>The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791.</p>
Description	All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055

1.3 Test Environment Condition

Ambient Temperature	21°C to 23°C
Ambient Relative Humidity	37% to 48%
Ambient Pressure	100KPa to 102KPa

1.4 Announce

- (1) The test report reference to the report template version v2.2.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Shenzhen Jingwah Information Technology Co., Ltd.
Address	4F, Bldg 4, Jinghua Square, No.1 Huafa North Road, Futian District, Shenzhen, China

2.2 Manufacturer Information

Manufacturer	SHENZHEN JINGWAH INFORMATION TECHNOLOGY CO., LTD
Address	4F, Bldg 4, Jinghua Square, No.1 Huafa North Road, Futian District, Shenzhen, China

2.3 Factory Information

Factory	SHENZHEN JINGWAH INFORMATION TECHNOLOGY CO., LTD
Address	4F, Bldg 4, Jinghua Square, No.1 Huafa North Road, Futian District, Shenzhen, China

2.4 General Description for Equipment under Test (EUT)

EUT Name	Tablet PC		
Model Name Under Test	BNTV450		
Series Model Name	BNTV450, BNTV460		
Description of Model name differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in model name, display screen, Flash and brand of DDR.		
Hardware Version	T8370-V6.3 L7		
Software Version	BNTV460		
Dimensions (Approx.)	N/A		
Weight (Approx.)	N/A		
EUT	Hardware	Model	Manufacturer
Configuration A	LCD display	20810700240441	xingyuan
Configuration B	LCD display	M070WSB150	xianchuang
Configuration C	LCD display	M070WSB150	xianchuang
Configuration D	LCD display	2089070BWS024001	xingyuan
Note: Configuration A is xingyuan display and Configuration B is xianchuang display, the internal structure and circuit electrical parameters are the same; but the LCD display is different. Configuration B and Configuration C only difference on flash, brand of DDR, model name, Difference Hardware Version and Software Version; Configuration C is xianchuang display and Configuration D is xingyuan display, the internal structure and circuit electrical parameters are the same.			

2.5 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	N/A
	Model No.	PL3370100P
	Serial No.	N/A
	Capacitance	3000 mAh
	Rated Voltage	3.7 V
	Extreme Voltage	4.2 V
Ancillary Equipment 2	Adapter 1	
	Brand Name	N/A
	Model No.	TPA – 95A050100UU
	Rated Input	100-240 V~, 50/60 Hz, 0.15 A
	Rated Output	5V–, 1 A
Ancillary Equipment 3	Adapter 2	
	Brand Name	N/A
	Model No.	JHD-AP006U-050100BB-2
	Rated Input	100-240 V~, 50/60 Hz, 0.2 A
	Rated Output	5V–, 1 A
Ancillary Equipment 4	USB Cable	
	Length	1.0 m

2.6 Technical Information

Network and Wireless connectivity	Bluetooth, 2.4G WLAN, 5G WLAN
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The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	2.4G WLAN, 5G WLAN, Bluetooth	
Frequency Range	802.11b/g /n(HT20/HT40)	2400~2483.5 MHz
	802.11a	5150 MHz~ 5250 MHz
		5250 MHz~ 5350 MHz
		5470 MHz~ 5725 MHz
		5725 MHz~ 5850 MHz
	Bluetooth	2400 MHz ~2483.5 MHz
Antenna Type	PIFA Antenna	
Hotspot Function	N/A	
Power Reduction	Not Support	
Exposure Category	General Population/Uncontrolled exposure	
EUT Stage	Portable Device	
Product	Type	
	<input checked="" type="checkbox"/> Production unit	<input type="checkbox"/> Identical prototype

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	ANSI/IEEE Std. C95.1-1999	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	IEEE Std. 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	FCC KDB 447498 D01 v06	Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies
5	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
6	FCC KDB 865664 D02 v01r02	RF Exposure Reporting
7	FCC KDB 616217 D04 SAR for tablets v01r02	SAR Evaluation Considerations for Laptop, Notebook, Netbook and Table Computers
8	FCC KDB 248227 D01 v02r02	SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS

Note: The only difference between the EUT (test samples in this report) and test sample in report BL-SZ1690235-701, which was issued by Shenzhen BALUN Technology Co., Ltd. on Oct. 17, 2016, is product information. Just changed the information as below:

1. Difference flash and brand of DDR;
2. Difference model name;
3. Difference display screen;
4. Difference Hardware Version and Software Version;

And others hardware circuit and software were all the same. So added the difference test in this report, the other test items originate from the test report BL-SZ1690235-701, which was issued by Shenzhen BALUN Technology Co., Ltd. on Oct. 17, 2016.

3.2 Device Category and SAR Limit

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user. Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.

Table of Exposure Limits:

Body Position	SAR Value (W/Kg)	
	General Population/ Uncontrolled Exposure	Occupational/ Controlled Exposure
Whole-Body SAR (averaged over the entire body)	0.08	0.4
Partial-Body SAR (averaged over any 1 gram of tissue)	1.60	8.0
SAR for hands, wrists, feet and ankles (averaged over any 10 grams of tissue)	4.0	20.0

NOTE:

General Population/Uncontrolled: Locations where there is the exposure of individuals who have no knowledge or control of their exposure. General population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

Occupational/Controlled: Locations where there is exposure that may be incurred by persons who are aware of the potential for exposure. In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

3.3 Test Result Summary

3.3.1 Highest SAR (1 g Value)

Band	Maximum Scaled SAR (W/kg)	Maximum Report SAR (W/kg)	Limit (W/kg)
	Body	Body	
2.4G WLAN	0.538	1.163	
5.2G WLAN	0.910		
5.6G WLAN	0.663		
5.8G WLAN	1.163		
Verdict	Pass		

3.3.2 Highest Simultaneous SAR

The simultaneous SAR is not required in this report.

3.4 Test Uncertainty

According to KDB 865664 D01, when the highest measured 1 g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis is not required in SAR reports submitted for equipment approval.

The maximum 1 g SAR for the EUT in this report is 1.163 W/kg, which is lower than 1.5 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.

4 SAR MEASUREMENT SYSTEM

4.1 Definition of Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in an 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 general population/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 a given 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 measurement can be related to the electrical field in the tissue by

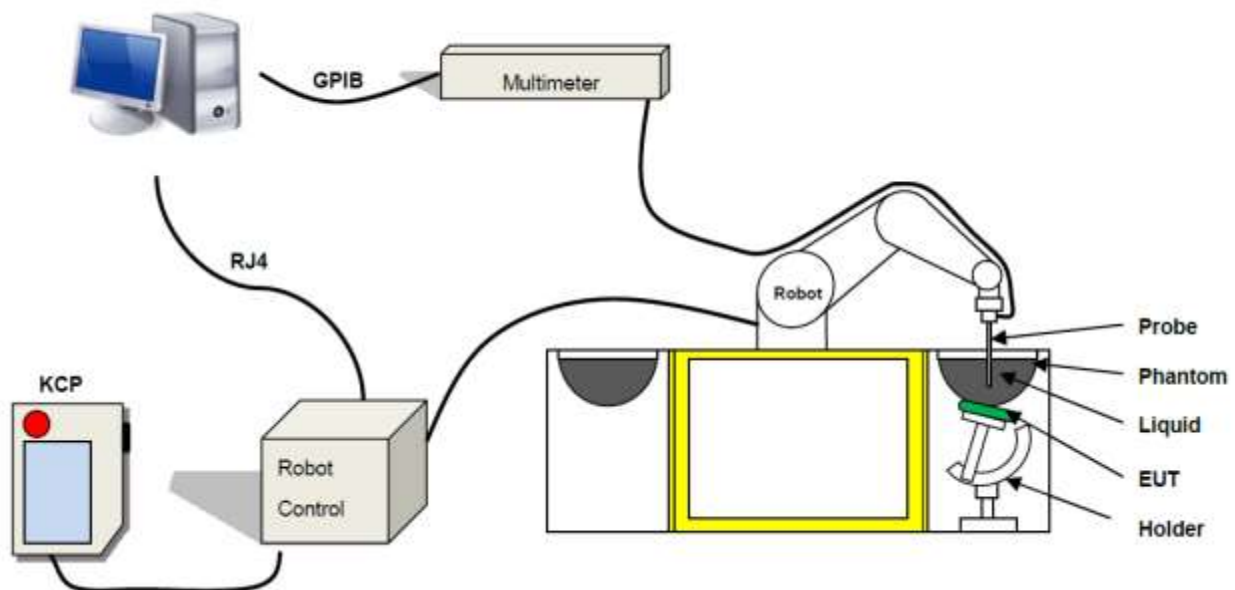
$$\text{SAR} = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue,

ρ is the mass density of the tissue and E is the RMS electrical field strength.

4.2 SATIMO SAR System

4.2.1 SATIMO SAR System Diagram



These measurements were performed with the automated near-field scanning system OPENSAR from SATIMO.

The system is based on a high precision robot (working range: 850 mm), which positions the probes with a positional repeatability of better than ± 0.02 mm. Special E- and H-field probes have been developed for measurements close to material discontinuity, the sensors of which are directly loaded with a Schottky diode and connected via highly resistive lines to the data acquisition unit.

The SAR measurements were conducted with dosimetric probe (manufactured by SATIMO), designed in the classical triangular configuration and optimized for dosimetric evaluation. The probe has been calibrated according to the procedure described in SAR standard with accuracy of better than $\pm 10\%$. The spherical isotropy was evaluated with the procedure described in SAR standard and found to be better than ± 0.25 dB. The phantom used was the SAM Phantom as described in FCC supplement C, IEEE P1528.

4.2.2 Robot

The SATIMO SAR system uses the high precision robots from KUKA. For the 6-axis controller system, the robot controller version (KUKA) from KUKA is used. The KUKA robot series have many features that are important for our application:



- High precision (repeatability ± 0.035 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)

4.2.3 E-Field Probe

For the measurements the Specific Dosimetric E-Field Probe SN 31/17 EPGO 321 with following specifications is used

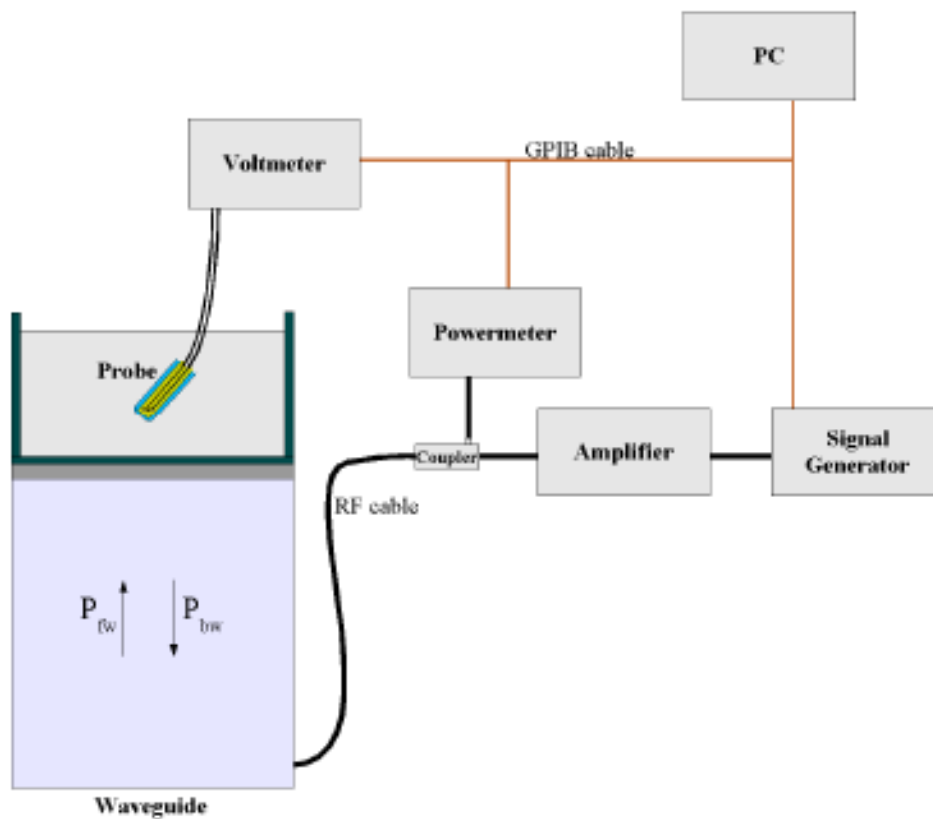
- Dynamic range: 0.01-100 W/kg
- Tip Diameter : 2.5 mm
- Lower detection limit : 10 mW/kg
(repeatability better than +/- 1mm)
- Probe linearity: +/- 0.07 dB
- Calibration range: 300 MHz to 6000 MHz for head & body simulating liquid.

Angle between probe axis (evaluation axis) and surface normal line: less than 30°



E-Field Probe Calibration Process

Probe calibration is realized, in compliance with CENELEC EN 62209-1/-2 and IEEE 1528 std, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the IEC 62209-1/2 annexe technique using reference guide at the five frequencies.



$$SAR = \frac{4(P_{fw} - P_{bw})}{ab\sigma} \cos^2 \left(\pi \frac{y}{a} \right) e^{-(2\pi/\sigma)z}$$

Where:

P_{fw} = Forward Power

P_{bw} = Backward Power

a and b = Waveguide Dimensions

σ = Skin Depth

Keithley Configuration

Rate = Medium; Filter = ON; RDGS = 10; FILTER TYPE = MOVING AVERAGE; RANGE AUTO After each calibration, a SAR measurement is performed on a validation dipole and compared with a NPL calibrated probe, to verify it.

The calibration factors, CF(N), for the 3 sensors corresponding to dipole 1, dipole 2 and dipole 3 are:

$$CF(N) = SAR(N)/V_{lin}(N) \quad (N=1,2,3)$$

The linearised output voltage $V_{lin}(N)$ is obtained from the displayed output voltage $V(N)$ using

$$V_{lin}(N) = V(N) * (1 + V(N)/DCP(N)) \quad (N=1,2,3)$$

Where the DCP is the diode compression point in mV.

4.2.4 Phantoms

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.

Photo of Phantom SN 30/13 SAM103



Photo of Phantom SN 30/13 SAM104



Serial Number	Positionner Material	Permittivity	Loss Tangent
SN 30/13 SAM103	Gelcoat with fiberglass	3.4	0.02
SN 30/13 SAM104	Gelcoat with fiberglass	3.4	0.02



SN 30/13 SAM103

4.2.5 Device Holder

The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of ± 0.5 mm would produce a SAR uncertainty of ± 20 %. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.

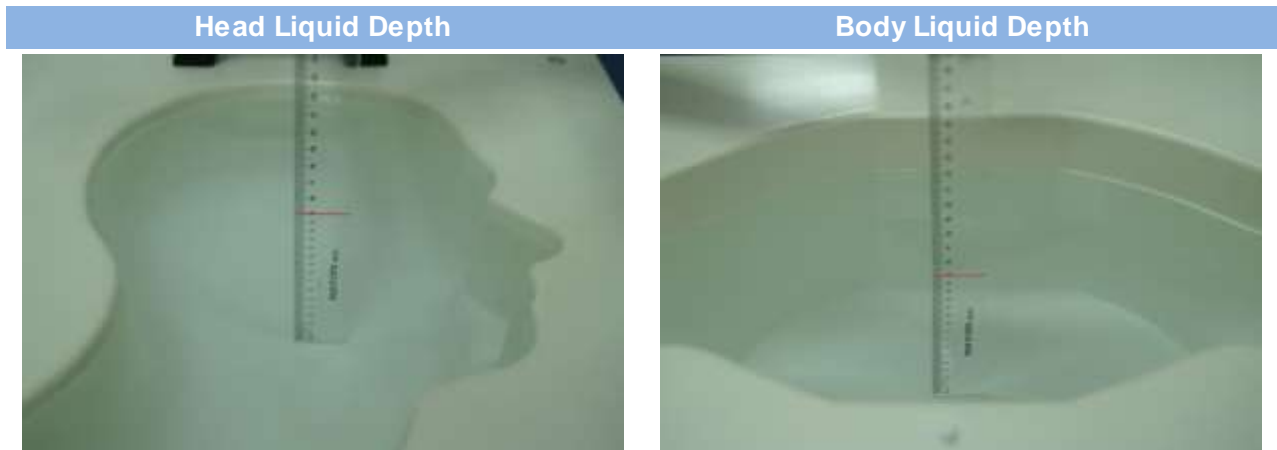


Serial Number	Holder Material	Permittivity	Loss Tangent
SN 25/13 MSH87	Deirin	3.7	0.005
SN 25/13 MSH88	Deirin	3.7	0.005

The positioning system allows obtaining cheek and tilting position with a very good accuracy. In compliance with CENELEC, the tilt angle uncertainty is lower than 1° .

4.2.6 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 15 cm. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5%.



The following table gives the recipes for tissue simulating liquid and the theoretical Conductivity/Permittivity.

Head (Reference IEEE1528)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ε
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
900	40.3	57.9	0.2	1.4	0.2	0	0.97	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.4	40.0
2450	55.0	0	0	0.1	0	44.9	1.80	39.2
2600	54.9	0	0	0.1	0	45.0	1.96	39.0
Frequency(MHz)	Water (%)	Hexyl Carbitol (%)			Triton X-100 (%)		Conductivity σ (S/m)	Permittivity ε
5200	62.52	17.24			17.24		4.66	36.0
5800	62.52	17.24			17.24		5.27	35.3
Body (From instrument manufacturer)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ε
750	51.7	47.2	0	0.9	0.1	0	0.96	55.5
835	50.8	48.2	0	0.9	0.1	0	0.97	55.2
900	50.8	48.2	0	0.9	0.1	0	1.05	55.0
1800, 1900, 2000	70.2	0	0	0.4	0	29.4	1.52	53.3
2450	68.6	0	0	0.1	0	31.3	1.95	52.7
2600	68.2	0	0	0.1	0	31.7	2.16	52.5

Frequency(MHz)	Water	DGBE (%)	Salt (%)	Conductivity σ (S/m)	Permittivity ϵ
5200	78.60	21.40	/	5.54	47.86
5800	78.50	21.40	0.1	6.0	48.20

5 SYSTEM VERIFICATION

5.1 Antenna Port Test Requirement

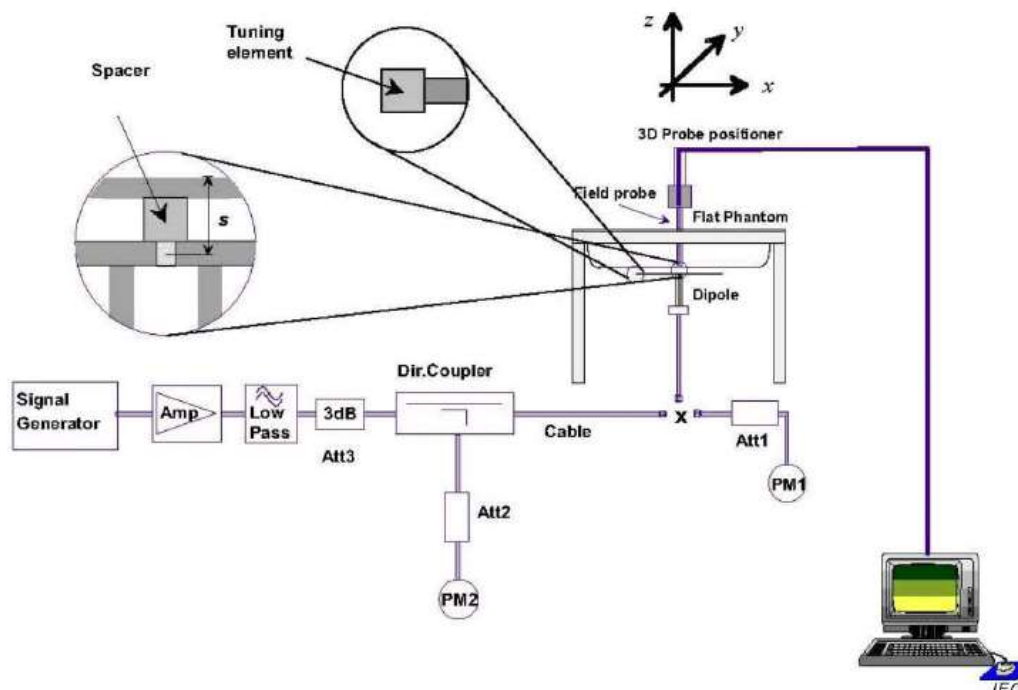
The SATIMO SAR system is equipped with one or more system validation kits. These units together with the predefined measurement procedures within the SATIMO software enable the user to conduct the system performance check and system validation. System validation kit includes a dipole, tripod holder to fix it underneath the flat phantom and a corresponding distance holder.

5.2 Purpose of System Check

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source. This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

5.3 System Check Setup

In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:



6 EUT TEST POSITION CONFIGURATIONS

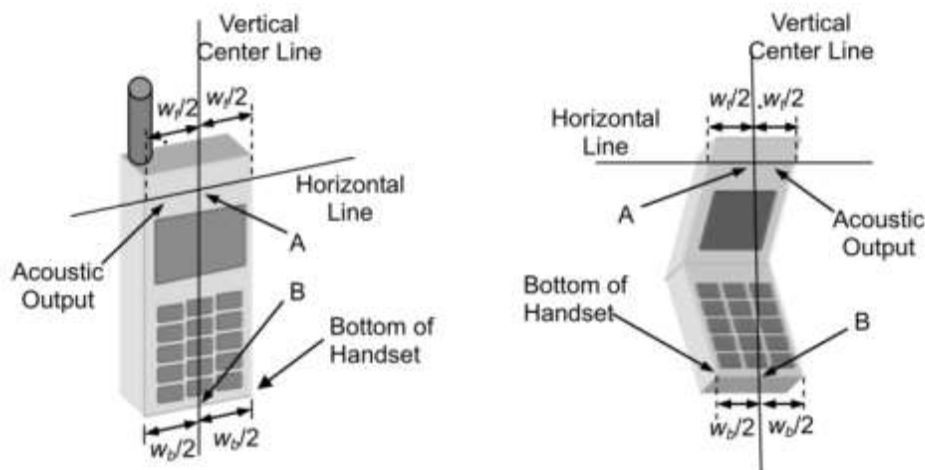
According to KDB 648474 D04 Handset , handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

6.1 Head Exposure Conditions

Head exposure is limited to next to the ear voice mode operations. Head SAR compliance is tested according to the test positions defined in IEEE Std 1528-2013 using the SAM phantom illustrated as below.

6.1.1 Define two imaginary lines on the handset

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



6.1.2 Cheek Position

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



6.1.3 Tilted Position

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



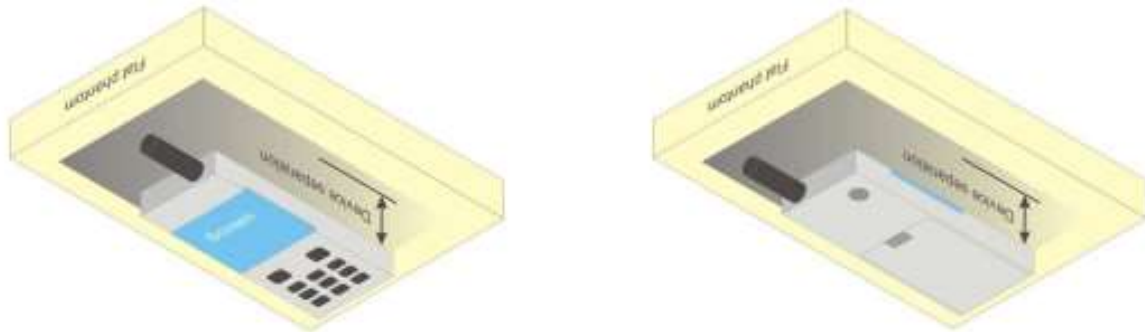
6.2 Body-worn Position Conditions

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB 447498 are used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is $> 1.2 \text{ W/kg}$, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics. All body-worn accessories containing metallic components are tested in conjunction with the host device.

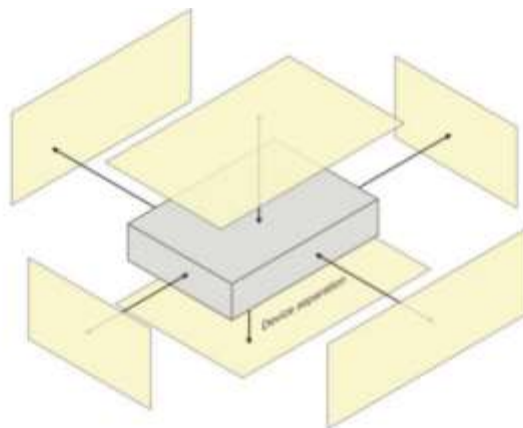
Body-worn accessory SAR compliance is based on a single minimum test separation distance for all wireless and operating modes applicable to each body-worn accessory used by the host, and according to the relevant voice and/or data mode transmissions and operations. If a body-worn accessory supports voice only operations in its normal and expected use conditions, testing of data mode for body-worn compliance is not required. A conservative minimum test separation distance for supporting off-the-shelf body-worn accessories that may be acquired by

users of consumer handsets is used to test for body-worn accessory SAR compliance. This distance is determined by the handset manufacturer, according to the requirements of Supplement C 01 -01. Devices that are designed to operate on the body of users using lanyards and straps, or without requiring additional body-worn accessories, will be tested using a conservative minimum test separation distance ≤ 5 mm to support compliance.



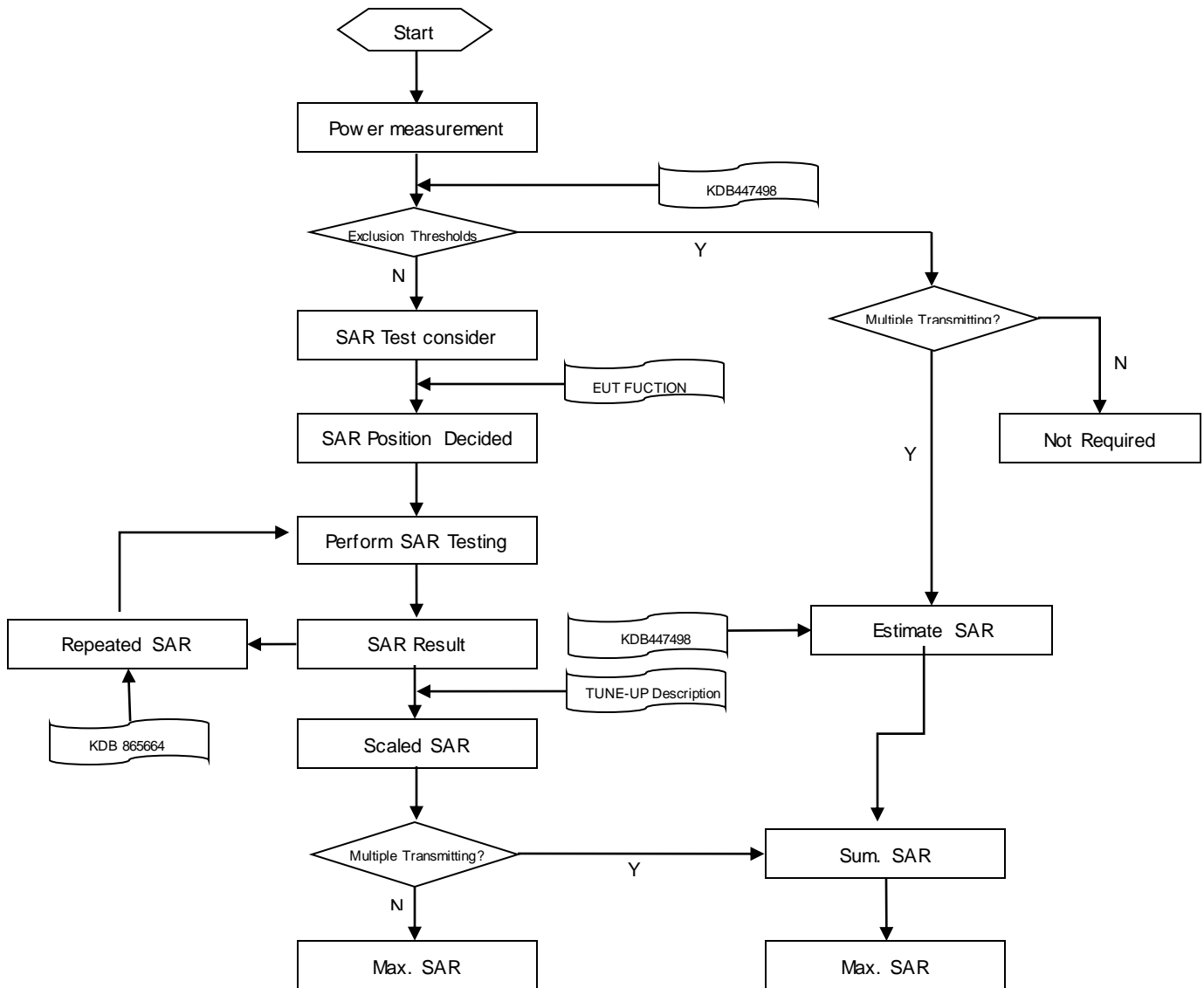
6.3 Hotspot Mode Exposure Position Conditions

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing functions, the relevant hand and body exposure conditions are tested according to the hotspot SAR procedures in KDB 941225. A test separation distance of 10 mm is required between the phantom and all surfaces and edges with a transmitting antenna located within 25 mm from that surface or edge. When the form factor of a handset is smaller than 9 cm x 5 cm, a test separation distance of 5 mm (instead of 10 mm) is required for testing hotspot mode. When the separation distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).



7 SAR MEASUREMENT PROCEDURES

7.1 SAR Measurement Process Diagram



7.2 SAR Scan General Requirements

Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std 1528-2013.

			≤3GHz	>3GHz
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°±1°	20°±1°
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3–4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be \leq the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3–4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: Δz_{Zoom} (n)		≤ 5 mm	3–4 GHz: ≤ 4 mm
				4–5 GHz: ≤ 3 mm
				5–6 GHz: ≤ 2 mm
	graded grid	Δz_{Zoom} (1): between 1st two points closest to phantom surface	≤ 4 mm	3–4 GHz: ≤ 3 mm
				4–5 GHz: ≤ 2.5 mm
				5–6 GHz: ≤ 2 mm
	Δz_{Zoom} (n>1): between subsequent points		$\leq 1.5 \cdot \Delta z_{Zoom}$ (n-1)	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3–4 GHz: ≥ 28 mm
				4–5 GHz: ≥ 25 mm
				5–6 GHz: ≥ 22 mm

Note:

- δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.
- * When zoom scan is required and the reported 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 3GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

7.3 SAR Measurement Procedure

The following steps are used for each test position

- Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

7.4 Area & Zoom Scan Procedures

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01 quoted below.

When the 1-g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

8 CONDUCTED RF OUPUT POWER

8.1 WIFI

8.1.1 2.4GWIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Peak. Power (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	19.79	Yes
		6	2437	19.29	No
		11	2462	19.31	No
	802.11g	1	2412	17.37	No
		6	2437	17.88	No
		11	2462	17.28	No
	802.11n(HT20)	1	2412	18.46	No
		6	2437	19.30	No
		11	2462	18.37	No
	802.11n(HT40)	3	2422	15.90	No
		6	2437	17.31	No
		9	2452	15.51	No

8.1.2 5GWIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Peak. Power (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	11.21	No
		44	5220	9.81	No
		48	5240	11.50	Yes
5.3 (5.25~5.35)	802.11a	52	5260	10.25	No
		60	5300	10.21	No
		64	5320	9.51	No
5.6 (5.47~5.725)	802.11a	100	5500	10.92	No
		120	5600	11.50	Yes
		140	5700	10.82	No
5.8 (5.725~5.850)	802.11a	149	5745	10.21	No
		157	5785	10.83	No
		161	5805	11.31	Yes

8.2 Bluetooth

Mode	GFSK			$\pi/4$ -DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Peak Power (dBm)	6.61	5.46	6.22	4.70	5.26	6.02
Mode	8-DPSK			BLE		
Channel	0	39	78	0	19	39
Frequency (MHz)	2402	2441	2480	2402	2440	2480
Peak Power (dBm)	4.90	5.43	6.25	-3.21	-2.60	-2.17
Note: Per KDB 447498 D01v06, when the test separation distance is 0 mm. FCC exclusion condition= $[4.68 \text{ mW/5 mm}] \cdot [\sqrt{2.402 \text{ GHz}}] = 1.5$ which is < 3.0 , so SAR testing is not required.						

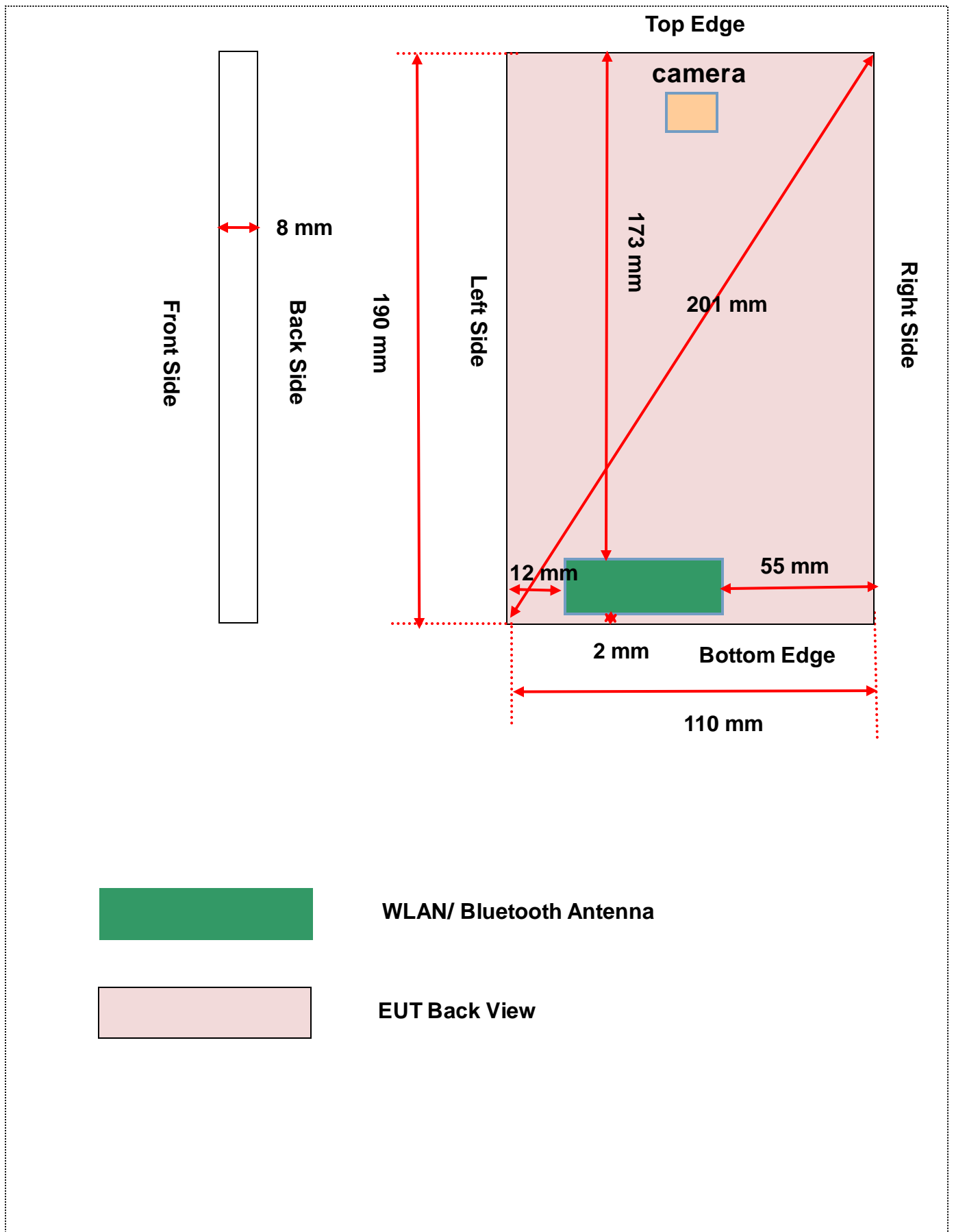
8.3 Rated RF power output

Band (GHz)	Mode	Range(dBm)
2.4 (2.4~2.4835)	IEEE 802.11b	19.20-19.90
	IEEE 802.11g	17.20-18.00
	IEEE 802.11n(HT20)	18.15-19.40
	IEEE 802.11n(HT40)	15.40-17.40

Band (GHz)	Mode	Range(dBm)
5.2 (5.15~5.25)	IEEE 802.11a	9.70-11.60
5.3 (5.25~5.35)	IEEE 802.11a	9.40-10.35
5.6 (5.47~5.725)	IEEE 802.11a	10.70-11.60
5.8 (5.725~5.850)	IEEE 802.11a	10.10-11.40

Band (GHz)	Mode	Range(dBm)
Bluetooth	BR/EDR	4.60-6.70
	BLE	(-3.30)-(-2.05)

9 EUT ANTENNA LOCATION SKETCH



9.1 SAR Test Exclusion Consider Table

According with FCC KDB 447498 D01, Appendix A, <SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm> Table, this Device SAR test configurations consider as following :

Band	Mode	Max. Peak Power		Test Position Configurations					
		dBm	mW	Front	Back	Left Edge	Right Edge	Top Edge	Bottom Edge
WLAN 2.4 G	Distance to User			6mm	<5mm	12mm	55mm	173mm	<5mm
	802.11b	19.90	97.724	No	Yes	Yes	No	No	Yes
	802.11g	18.00	63.096	No	No	No	No	No	No
	802.11n(HT20)	19.40	87.096	No	No	No	No	No	No
	802.11n(HT40)	17.40	54.954	No	No	No	No	No	No
WLAN 5.2 G	Distance to User			6mm	<5mm	12mm	55mm	173mm	<5mm
	802.11a	11.60	14.454	No	Yes	Yes	No	No	Yes
WLAN 5.3 G	Distance to User			6mm	<5mm	12mm	55mm	173mm	<5mm
	802.11a	10.35	10.839	No	No	No	No	No	No
WLAN 5.6 G	Distance to User			6mm	<5mm	12mm	55mm	173mm	<5mm
	802.11a	11.60	14.454	No	Yes	Yes	No	No	Yes
WLAN 5.8 G	Distance to User			6mm	<5mm	12mm	55mm	173mm	<5mm
	802.11a	11.40	13.804	No	Yes	Yes	No	No	Yes
Bluetooth	Distance to User			6mm	<5mm	12mm	55mm	173mm	<5mm
	BR/EDR	6.70	4.677	No	No	No	No	No	No
	BLE	-2.05	0.624	No	No	No	No	No	No

Note:

- Maximum power is the source-based time-average power and represents the maximum RF output power including tune-up tolerance among production units
- Per KDB 447498 D01, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
- Per KDB 447498 D01, standalone SAR test exclusion threshold is applied; If the distance of the antenna to the user is < 5mm, 5mm is used to determine SAR exclusion threshold
- Per KDB 447498 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR}$$
 - f(GHz) is the RF channel transmit frequency in GHz
 - Power and distance are rounded to the nearest mW and mm before calculation
 - The result is rounded to one decimal place for comparison
 - For < 50 mm distance, we just calculate mW of the exclusion threshold value (3.0) to do compare.
This formula is $[3.0] / [\sqrt{f(\text{GHz})}] \cdot (\text{min. test separation distance, mm}) = \text{exclusion threshold of mW}$.
- Per KDB 447498 D01, at 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following
 - [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · (f(MHz)/150)] mW, at 100 MHz to 1500 MHz
 - [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · 10] mW at > 1500 MHz and ≤ 6 GHz
- Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion.

each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than 1/4dB higher than those measured at the lowest data rate

7. Per KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions.
 - a. When KDB Publication 447498 D01 SAR test exclusion applies to the OFDM configuration.
 - b. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
8. Per KDB 248227 D01 SAR is not required for the following U-NII-1 and U-NII-2A bands conditions.
 - a. When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.
 - b. When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, each band is tested independently for SAR.

10 TEST RESULTS

10.1 WIFI 2.4GHz

Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (%)	1 g Meas. SAR (W/Kg)	Meas. Power (dBm)	Max. tune-up Power(dBm)	Scaling Factor	1 g Scaled SAR (W/Kg)	Meas. No.
Body											
802.11 b	Back Side	0	1	2412	-4.99	0.491	19.79	19.90	1.03	0.504	1#
	Left Edge	0	1	2412	-3.44	0.094	19.79	19.90	1.03	0.096	2#
	Bottom Edge	0	1	2412	-3.61	0.525	19.79	19.90	1.03	0.538	3#
Note 1: Refer to ANNEX C for the detailed test data for each test configuration. 2: According to KDB 616217 D04, SAR evaluation for the front of the surface displayscreens are not necessary.											

10.2 WIFI 5GHz

Fre. Band	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (%)	1 g Meas. SAR (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	1 g Scaled SAR (W/Kg)	Meas. No.
Body												
5.2G	802.11 a	Back Side	0	48	5240	-4.01	0.649	11.50	11.60	1.02	0.664	4#
		Left Edge	0	48	5240	2.29	0.614	11.50	11.60	1.02	0.628	5#
		Bottom Edge	0	48	5240	-2.80	0.874	11.50	11.60	1.02	0.894	6#
			0	36	5180	0.74	0.832	11.21	11.60	1.09	0.910	7#
			0	44	5220	1.05	0.563	9.81	11.60	1.51	0.850	8#
5.6G	802.11 a	Back Side	0	120	5600	2.15	0.553	11.50	11.60	1.02	0.566	9#
		Left Edge	0	120	5600	-1.21	0.392	11.50	11.60	1.02	0.401	10#
		Bottom Edge	0	120	5600	-4.91	0.648	11.50	11.60	1.02	0.663	11#
5.8G	802.11 a	Back Side	0	161	5805	1.78	0.885	11.31	11.40	1.02	0.906	12#
			0	149	5745	-3.13	0.856	10.21	11.40	1.32	1.126	13#
			0	157	5785	-1.89	0.864	10.83	11.40	1.14	0.985	14#
		Left Edge	0	161	5805	4.61	0.418	11.31	11.40	1.02	0.428	15#
		Bottom Edge	0	161	5805	-2.55	1.060	11.31	11.40	1.02	1.085	16#
			0	149	5745	-1.51	0.868	10.21	11.40	1.32	1.142	17#
			0	157	5785	-1.88	1.020	10.83	11.40	1.14	1.163	18#
Note 1: Refer to ANNEX C for the detailed test data for each test configuration. 2: According to KDB 616217 D04, SAR evaluation for the front of the surface displayscreens are not necessary.												

10.3 The Difference Test

Fre. Band	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (%)	1 g Meas. SAR (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	1 g Scaled SAR (W/Kg)	Meas. No.
Body												
5.8G	802.11 a	Bottom Edge	0	157	5785	-1.25	0.927	10.83	11.40	1.140	1.057	19#
Note: Refer to ANNEX C for the detailed test data for each test configuration.												

11 SAR Measurement Variability

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are ≤ 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is ≤ 1.10 , the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR repeated measurement procedure:

1. When the highest measured SAR is < 0.80 W/kg, repeated measurement is not required.
2. When the highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
3. 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, perform a second repeated measurement.
4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 , and the original, first or second repeated measurement is ≥ 1.5 W/kg, perform a third repeated measurement.

Frequency Band (MHz)	Wireless Band	RF Exposure Conditions	Test Position	Highest Measured SAR (W/kg)	Repeated SAR (Yes/No)	Highest Measured SAR (W/kg)	Largest to Smallest SAR Ratio
5200	WIFI 802.11 a	Body	Bottom Edge	0.874	Yes	0.862	1.01
		Body	Bottom Edge	0.832	Yes	0.813	1.02
5800	WIFI 802.11 a	Body	Back side	0.885	Yes	0.877	1.01
		Body	Back side	0.856	Yes	0.842	1.02
		Body	Back side	0.864	Yes	0.861	1.00
		Body	Bottom Edge	1.060	Yes	1.033	1.03
		Body	Bottom Edge	0.868	Yes	0.849	1.02
		Body	Bottom Edge	1.020	Yes	0.995	1.03
		Body	Bottom Edge	0.927	Yes	0.903	1.03

Note: The ratio of largest to smallest SAR for the original and first repeated measurements is < 1.20 , the second repeated measurement is not required.

12 SIMULTANEOUS TRANSMISSION

2.4G WLAN, 5G WLAN and Bluetooth share the same antenna, so the simultaneous transmission SAR is not required in this report.

13 TEST EQUIPMENTS LIST

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Waveguide	SATIMO	SWG5500	S/N 49/16 DIP WGA42	2017/03/22	2020/03/21
E-Field Probe	MVG	SSE2	S/N 31/17 EPGO 321	2018/03/16	2019/03/15
MultiMeter	Keithley	MultiMeter 2000	4024022	2018/06/15	2019/06/14
Signal Generator	R&S	SMBV100A	260592	2018/06/15	2019/06/14
Power Meter	Agilent	E4419B	GB40201833	2017/11/02	2018/11/01
Power Sensor	Agilent	E9300A	MY41498012	2017/11/02	2018/11/01
Power Sensor	Agilent	E9300A	MY41499891	2017/11/02	2018/11/01
Network Analyzer	Agilent	5071C	MY46103472	2018/03/14	2019/03/13
Thermometer	Elitech	RC-4HC	N/A	2017/11/13	2018/11/12
Dielectric Probe Kit	SATIMO	SCLMP	SN 25/13 OCPG56	N/A	N/A
Antenna	SATIMO	ANTA3	SN 17/13 ZNTA45	N/A	N/A
Phantom 1	SATIMO	SAM	SN 30/13 SAM103	N/A	N/A
Phantom 2	SATIMO	SAM	SN 30/13 SAM104	N/A	N/A
Power Amplifier	SATIMO	6552B	22374	N/A	N/A
Attenuator	COM-MW	ZA-S1-31	1305003187	N/A	N/A
Directional coupler	AA-MCS	AAMCS-UDC	000272	N/A	N/A

Note: For dipole antennas, BALUN has adopted 3 years as calibration intervals, and 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 in within 20% of calibrated measurement.
4. Impedance (real or imaginary parts) in within 5 Ohms of calibrated measurement.

ANNEX A SIMULATING LIQUID VERIFICATION RESULT

The dielectric parameters of the liquids were verified prior to the SAR evaluation using an SCLMP Dielectric Probe Kit.

Date	Liquid Type	Fre. (MHz)	Temp. (°C)	Meas. Conductivity (σ) (S/m)	Meas. Permittivity (ϵ)	Target Conductivity (σ) (S/m)	Target Permittivity (ϵ)	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2016.09.28	Body	2450	21.1	1.96	52.11	1.95	52.70	0.51	-1.12
2016.09.27	Body	5200	21.3	5.35	49.42	5.30	49.01	0.94	0.84
2016.09.27	Body	5600	21.3	5.78	47.97	5.77	48.47	0.17	-1.03
2016.09.27	Body	5800	21.3	6.12	46.87	6.00	48.20	2.00	-2.76
2018.07.28	Body	5800	21.3	6.02	46.97	6.00	48.20	0.33	-2.55
Note: The tolerance limit of Conductivity and Permittivity is $\pm 5\%$.									

ANNEX B SYSTEM CHECK RESULT

Comparing to the original SAR value provided by SATIMO, the validation data should be within its specification of 10%(for 1 g).

Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)	Targeted SAR(W/kg)	Tolerance (%)
2016.09.28	Body	2450	100	5.472	54.72	54.70	0.04	52.40	4.43
2016.09.27	Body	5200	100	15.392	153.92	155.12	-0.77	159.00	-3.19
2016.09.27	Body	5600	100	16.594	165.94	167.13	-0.71	173.80	-4.52
2016.09.27	Body	5800	100	16.895	168.95	173.19	-2.45	181.20	-6.76
2018.07.28	Body	5800	100	17.579	175.79	177.09	-0.73	181.20	-2.99

Note: The tolerance limit of System validation $\pm 10\%$.

System Performance Check Data(2450 MHz Body)

Type: Phone measurement (Complete)

E-Field Probe: SN 34/15 SSE2 EPGO265

Area scan resolution: dx=8mm,dy=8mm

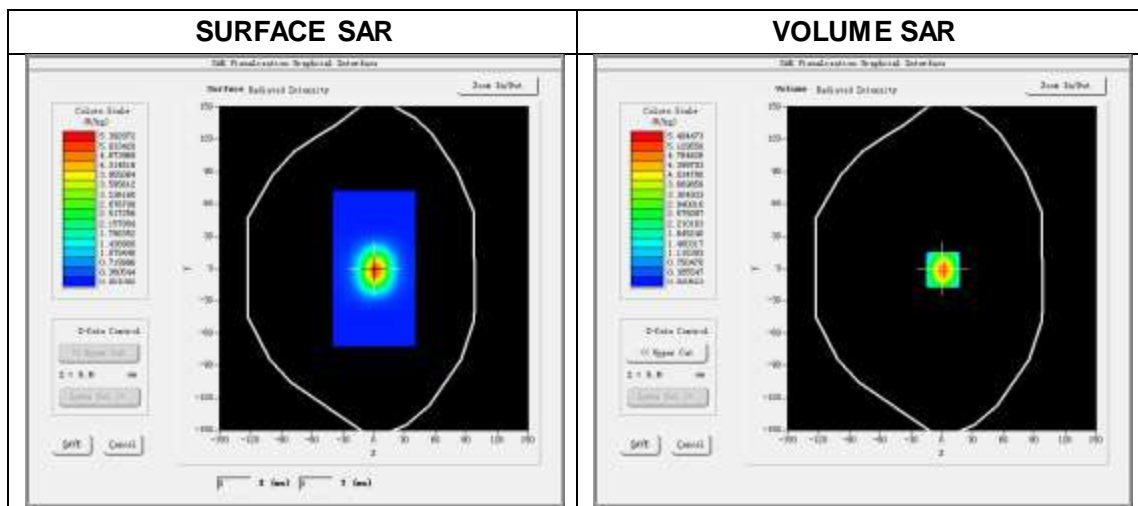
Zoom scan resolution: dx=5mm, dy=5mm, dz=5mm

Date of measurement: 2016.09.28

Measurement duration: 17 minutes 51 seconds

Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Band	2450MHz
Signal	CW
Frequency (MHz)	2450.000000
Relative permittivity (real part)	52.106513
Conductivity (S/m)	1.964598
Power drift (%)	0.270000
Ambient Temperature:	22.5°C
Liquid Temperature:	21.1°C
ConvF:	2.55
Crest factor:	1:1

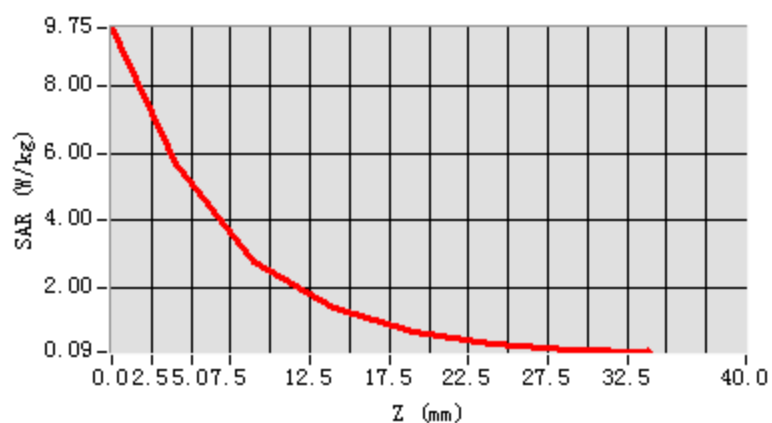


Maximum location: X=1.00, Y=-1.00

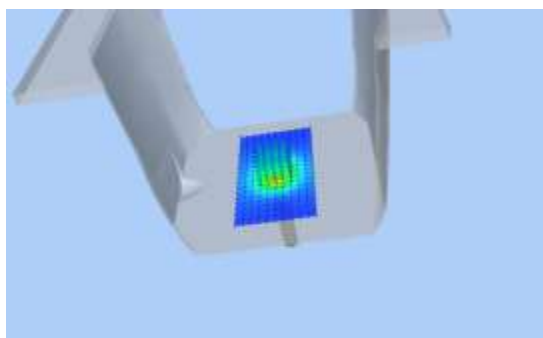
SAR Peak: 9.70W/kg

SAR 10g (W/Kg)	2.335417
SAR 1g (W/Kg)	5.471698

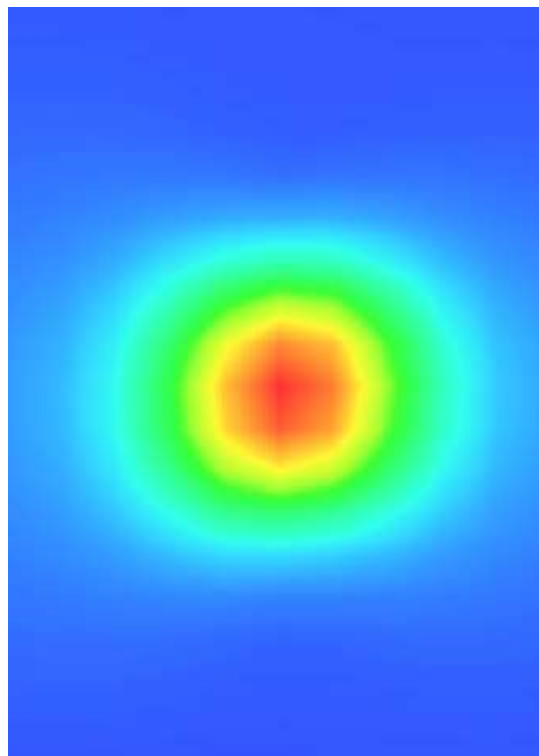
Z Axis Scan



3D screen shot



Hot spot position



System Performance Check Data(5200 MHz Body)

Type: Phone measurement (Complete)

Area scan resolution: dx=8 mm,dy=8 mm

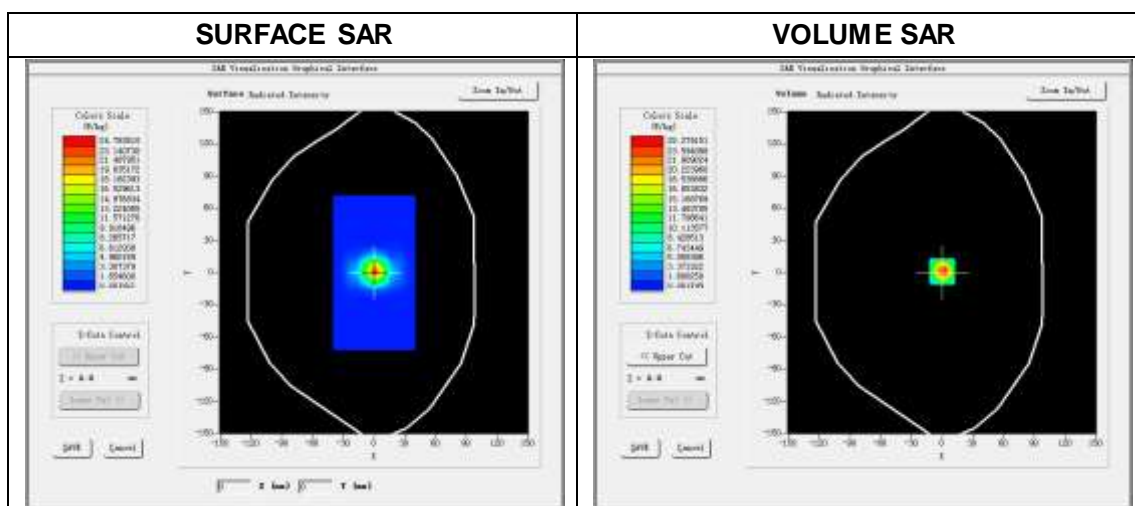
Zoom scan resolution: dx=4 mm, dy=4 mm, dz=2 mm

Date of measurement: 2016.09.27

Measurement duration: 29 minutes 39 seconds

Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Band	5200 MHz
Signal	CW
Frequency (MHz)	5200.000000
Relative permittivity (real part)	49.418539
Conductivity (S/m)	5.345241
Power drift (%)	0.260000
Ambient Temperature:	22.8°C
Liquid Temperature:	21.3°C
ConvF:	1.85
Crest factor:	1:1

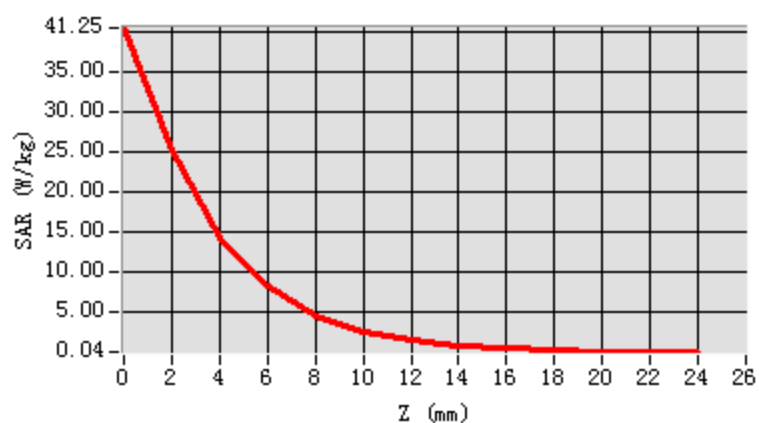


Maximum location: X=0.00, Y=0.00

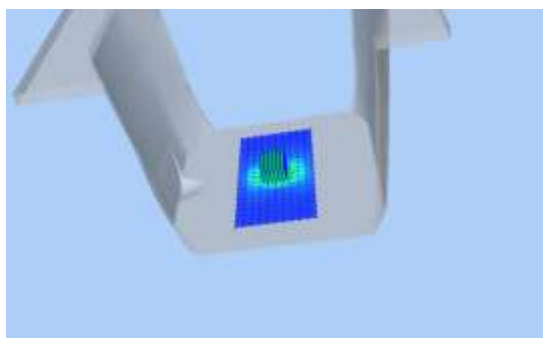
SAR Peak: 41.11 W/kg

SAR 10 g (W/Kg)	5.289124
SAR 1 g (W/Kg)	15.392071

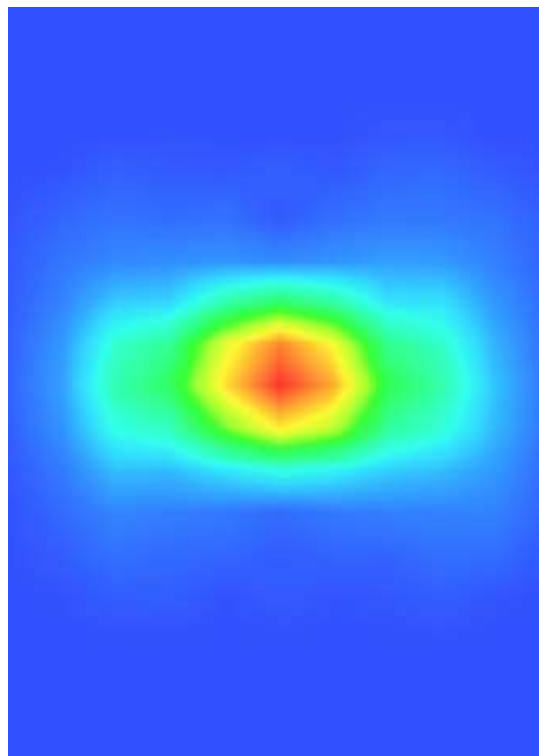
Z Axis Scan



3D screen shot



Hot spot position



System Performance Check Data(5600MHz Body)

Type: Phone measurement (Complete)

Area scan resolution: dx=8 mm,dy=8 mm

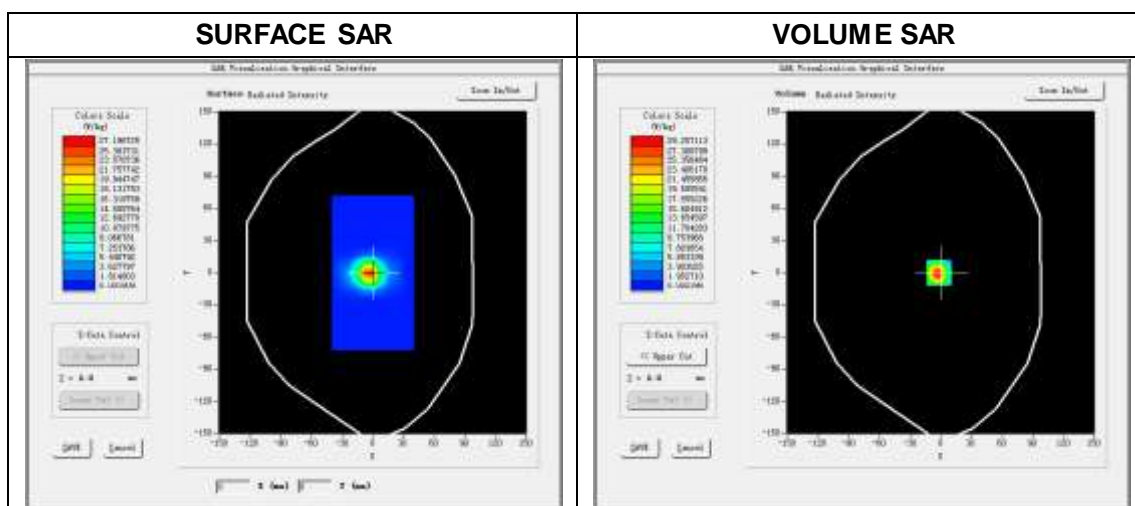
Zoom scan resolution: dx=4 mm, dy=4 mm, dz=2 mm

Date of measurement: 2016.09.27

Measurement duration: 30 minutes 39 seconds

Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Band	5600 MHz
Signal	CW
Frequency (MHz)	5600.000000
Relative permittivity (real part)	47.973649
Conductivity (S/m)	5.781354
Power drift (%)	0.330000
Ambient Temperature:	22.8°C
Liquid Temperature:	21.3°C
ConvF:	2.15
Crest factor:	1:1

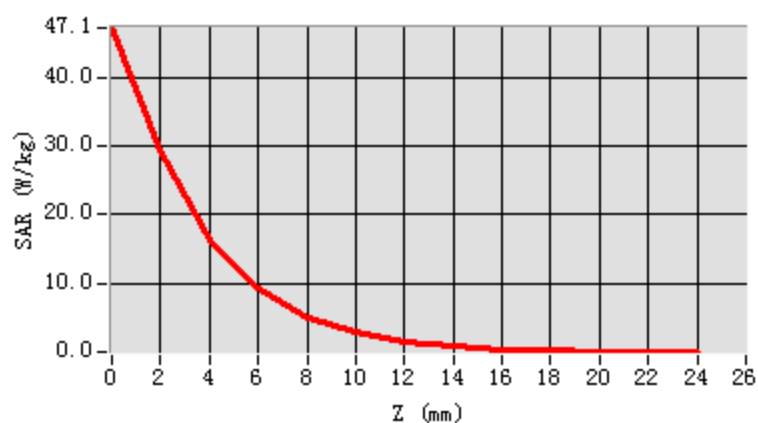


Maximum location: X=-2.00, Y=0.00

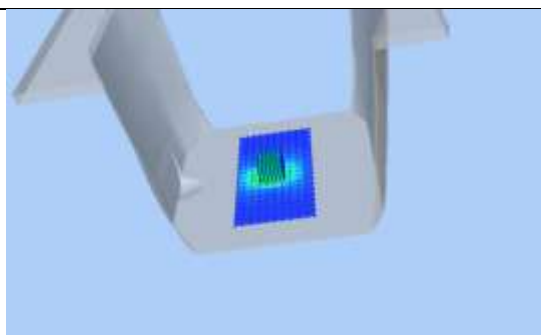
SAR Peak: 45.98 W/kg

SAR 10 g (W/Kg)	5.633108
SAR 1 g (W/Kg)	16.593712

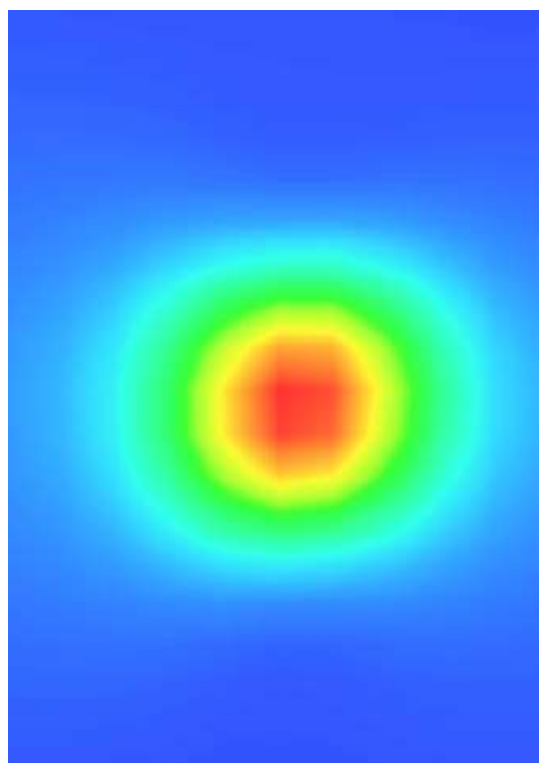
Z Axis Scan



3D screen shot



Hot spot position



System Performance Check Data(5800MHz Body)

Type: Phone measurement (Complete)

Area scan resolution: dx=8 mm,dy=8 mm

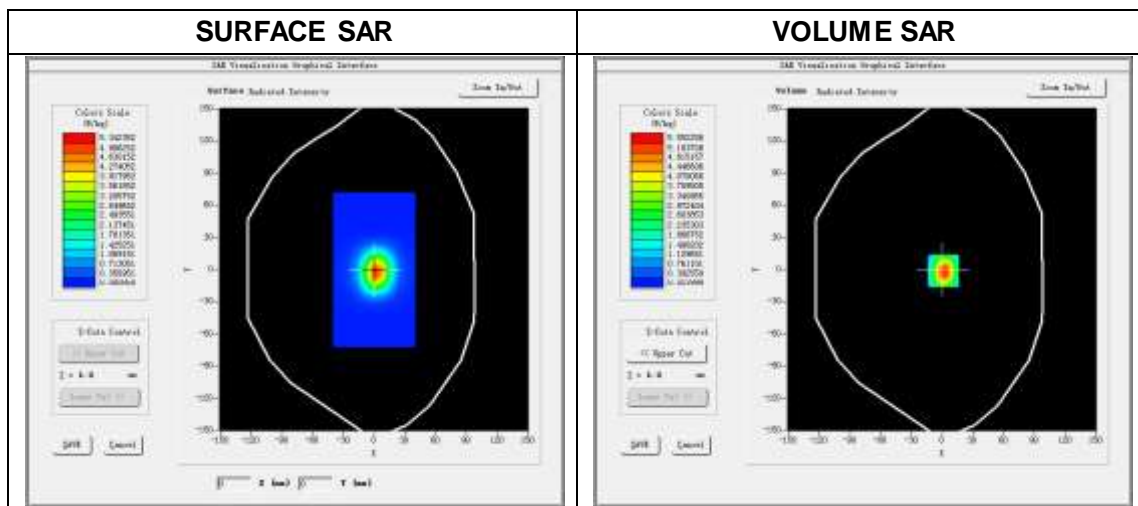
Zoom scan resolution: dx=4 mm, dy=4 mm, dz=2 mm

Date of measurement: 2016.09.27

Measurement duration: 29 minutes 38 seconds

Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Band	5800 MHz
Signal	CW
Frequency (MHz)	5800.000000
Relative permittivity (real part)	46.872468
Conductivity (S/m)	6.124730
Power drift (%)	-0.160000
Ambient Temperature:	22.8°C
Liquid Temperature:	21.3°C
ConvF:	1.93
Crest factor:	1:1

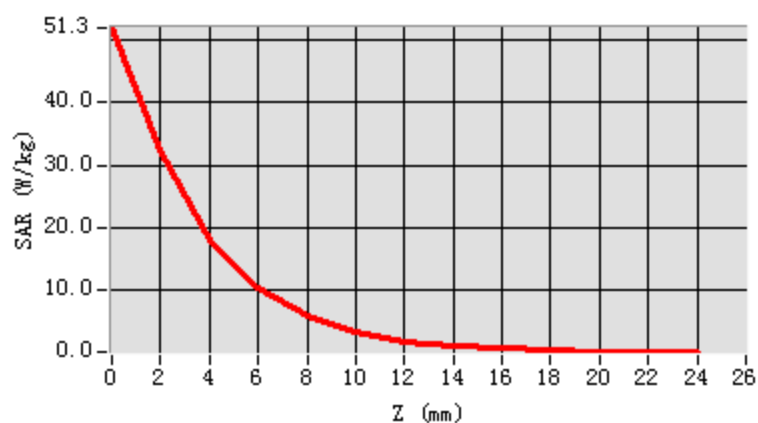


Maximum location: X=0.00, Y=0.00

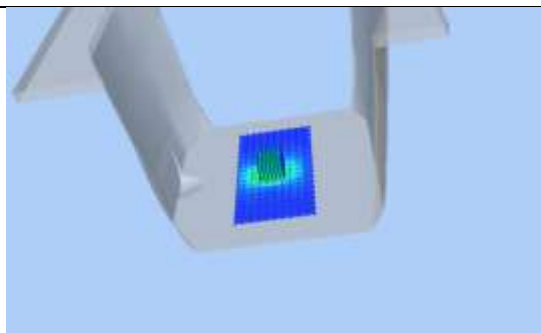
SAR Peak: 51.27 W/kg

SAR 10 g (W/Kg)	5.870314
SAR 1 g (W/Kg)	16.895311

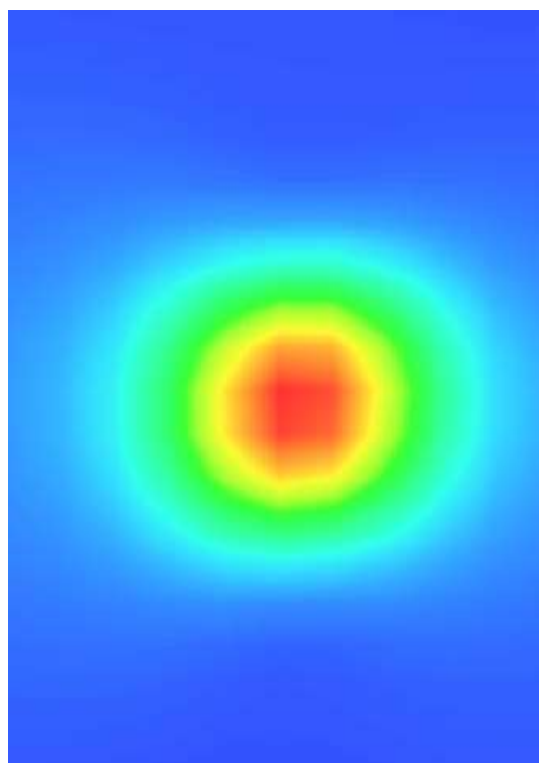
Z Axis Scan



3D screen shot



Hot spot position



System Performance Check Data(5800 MHz)

Type: Phone measurement (Complete)

E-Field Probe: SN 3117 EPG0321

Area scan resolution: dx=8 mm,dy=8 mm

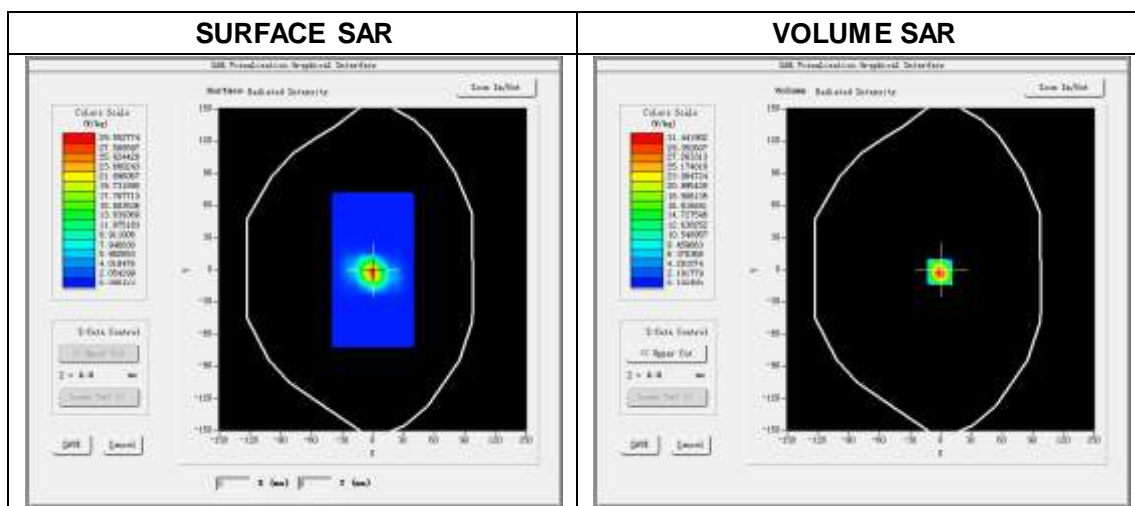
Zoom scan resolution: dx=4 mm, dy=4 mm, dz=2 mm

Date of measurement: 2018.07.28

Measurement duration: 27 minutes 33 seconds

Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Band	5800 MHz
Signal	CW
Frequency (MHz)	5800.000000
Relative permittivity (real part)	46.967083
Conductivity (S/m)	6.016628
Power drift (%)	0.130000
Ambient Temperature:	22.5°C
Liquid Temperature:	21.3°C
ConvF:	2.39
Crest factor:	1:1

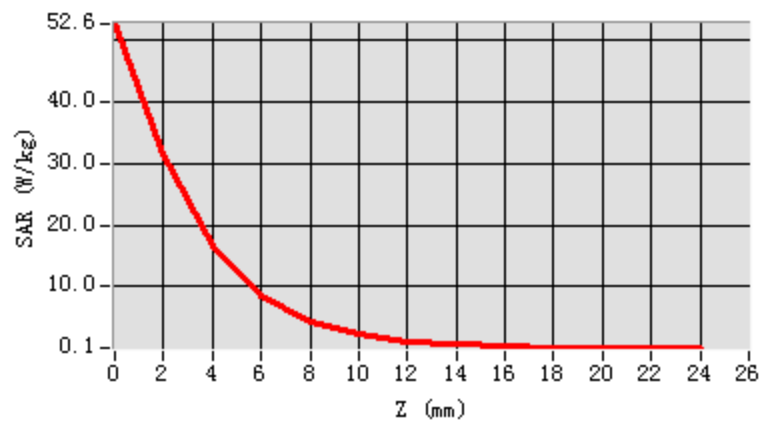


Maximum location: X=0.00, Y=-0.02

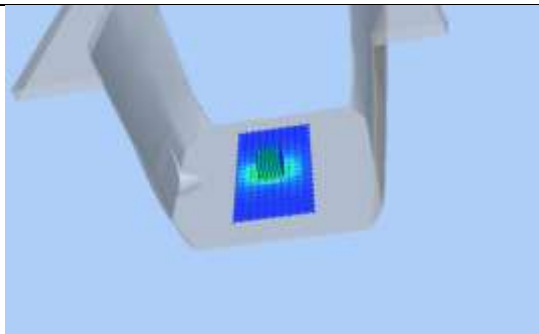
SAR Peak: 55.03 W/kg

SAR 10 g (W/Kg)	5.881627
SAR 1 g (W/Kg)	17.579315

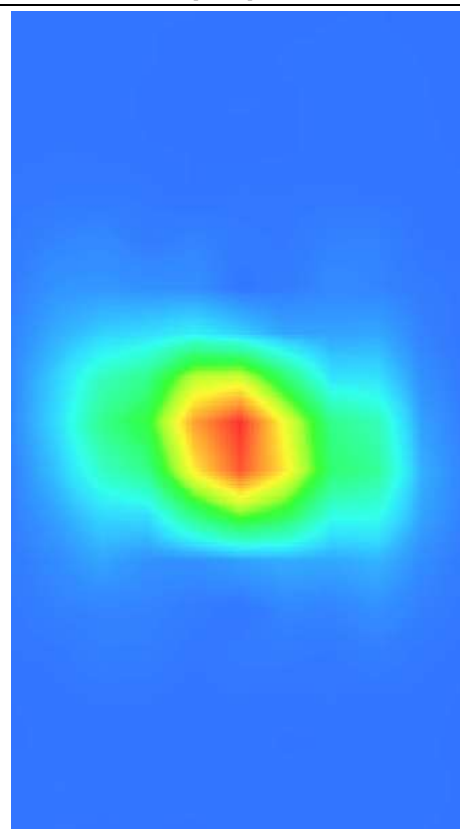
Z Axis Scan



3D screen shot



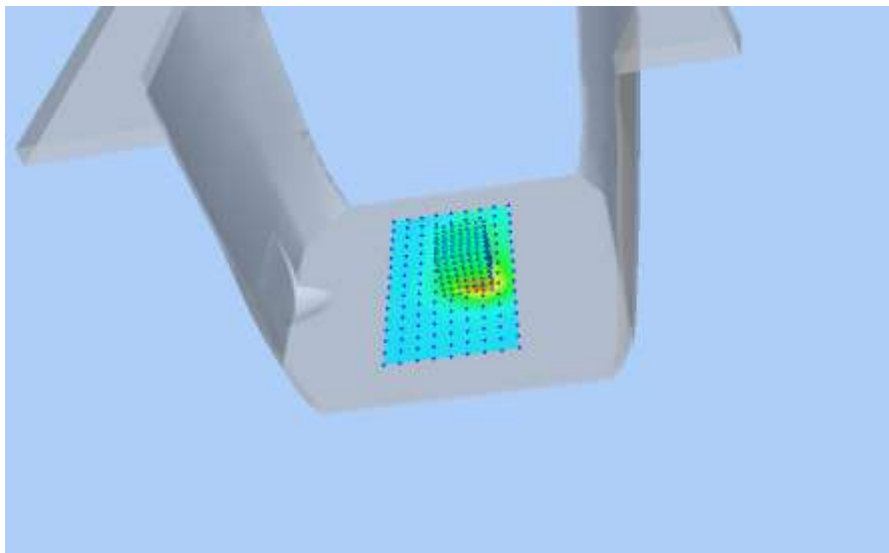
Hot spot position



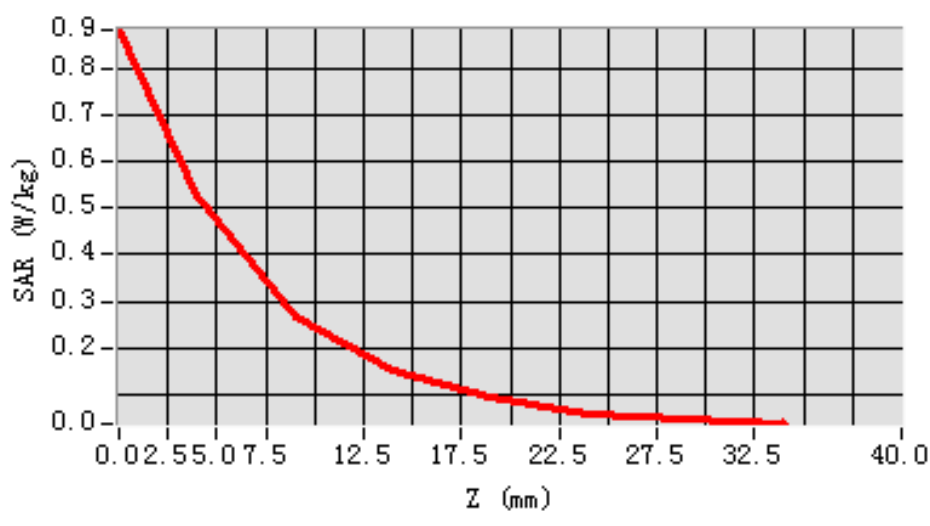
ANNEX C TEST DATA

MEAS. 1 Body Plane with Back Side on Low Channel in IEEE 802.b mode

Test Date: 28/9/2016
Measurement duration: 19 minutes 0 seconds
Signal: WLAN, f=2412.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 53.12; Conductivity: 1.94 S/m
Test condition: Ambient Temperature: 22.5°C, Liquid Temperature: 21.1°C
Probe: SN 34/15 SSE2 EPGO265, ConvF: 2.55
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 7x7x7,dx=5mm, dy=5mm, dz=5mm,Complete
Maximum location: X=10.000000, Y=-2.000000
SAR 10g (W/Kg): 0.256793
SAR 1g (W/Kg): 0.490902
Power drift (%): -4.99
3D screen shot

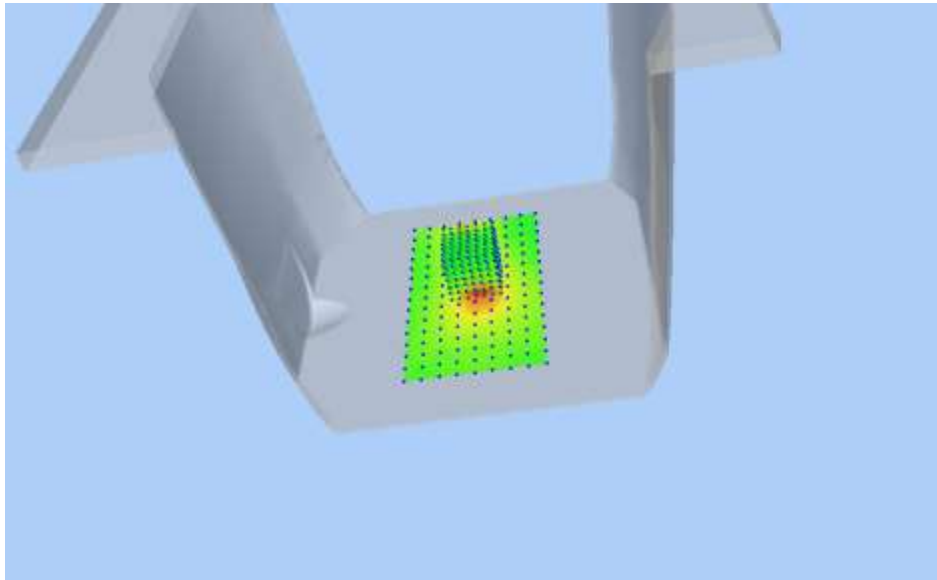


Z Axis Scan

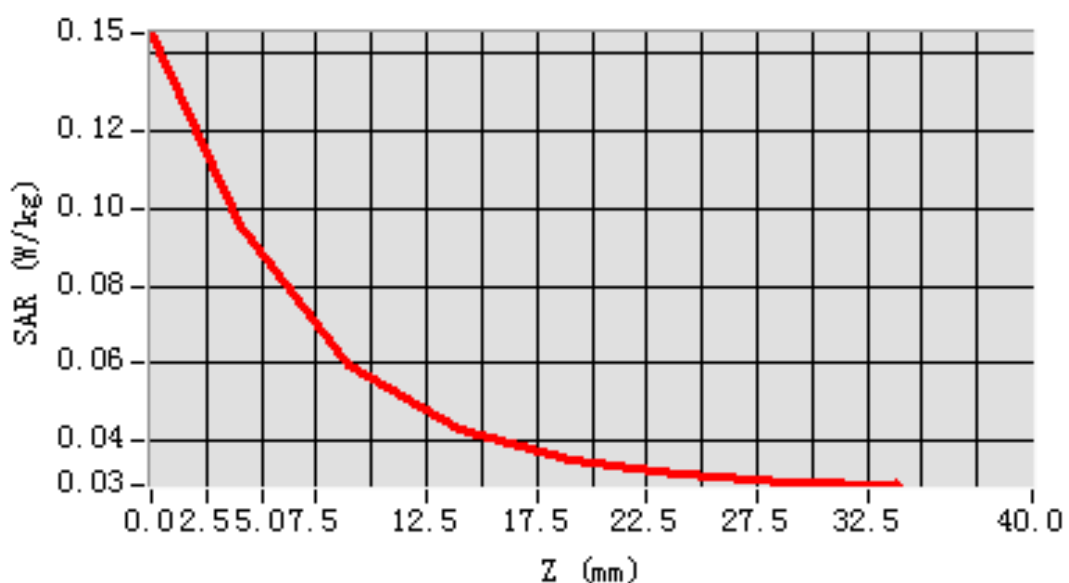


MEAS. 2 Body Plane with Left Edge on Low Channel in IEEE 802.b mode

Test Date: 28/9/2016
Measurement duration: 17 minutes 13 seconds
Signal: WLAN, f=2412.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 53.12; Conductivity: 1.94 S/m
Test condition: Ambient Temperature: 22.5°C, Liquid Temperature: 21.1°C
Probe: SN 34/15 SSE2 EPGO265, ConvF: 2.55
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 7x7x7,dx=5mm, dy=5mm, dz=5mm,Complete
Maximum location: X=0.000000, Y=8.000000
SAR 10g (W/Kg): 0.058945
SAR 1g (W/Kg): 0.093614
Power drift (%): -3.44
3D screen shot

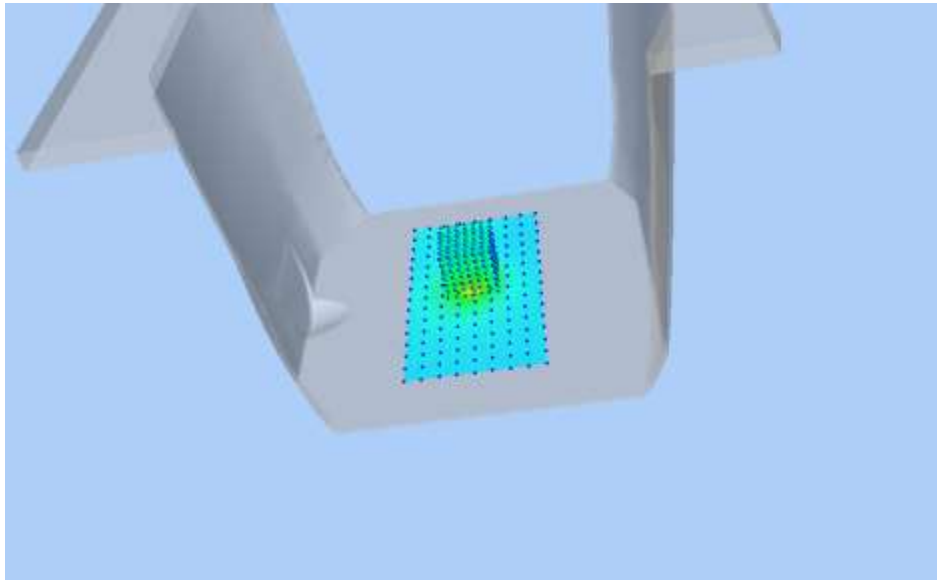


Z Axis Scan

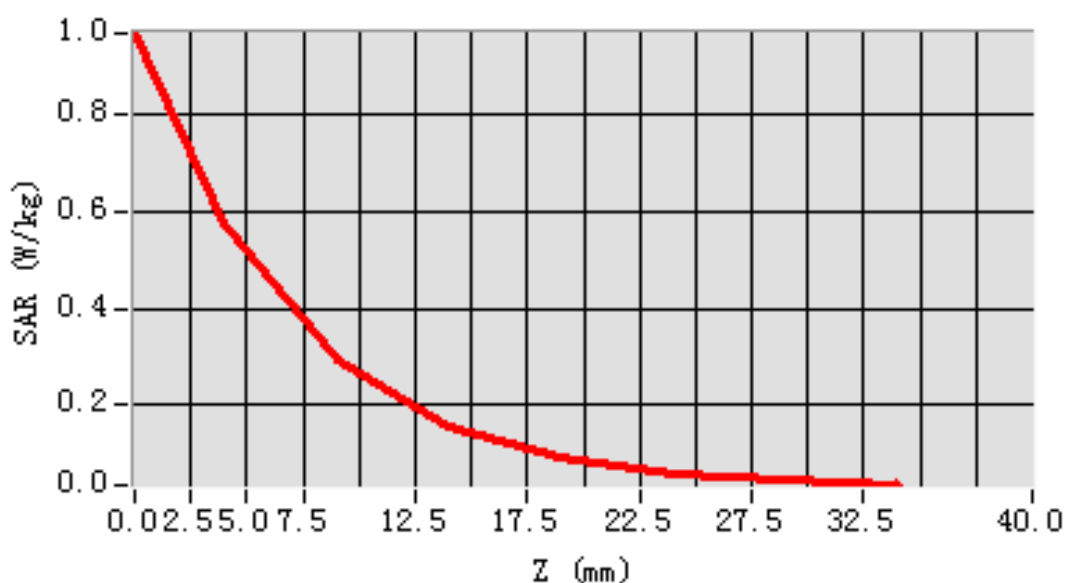


MEAS. 3 Body Plane with Bottom Edge on Low Channel in IEEE 802.b mode

Test Date: 28/9/2016
Measurement duration: 17 minutes 34 seconds
Signal: WLAN, f=2412.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 53.12; Conductivity: 1.94 S/m
Test condition: Ambient Temperature: 22.5°C, Liquid Temperature: 21.1°C
Probe: SN 34/15 SSE2 EPGO265, ConvF: 2.55
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 7x7x7,dx=5mm, dy=5mm, dz=5mm,Complete
Maximum location: X=0.000000, Y=8.000000
SAR 10g (W/Kg): 0.231314
SAR 1g (W/Kg): 0.524899
Power drift (%): -3.61
3D screen shot

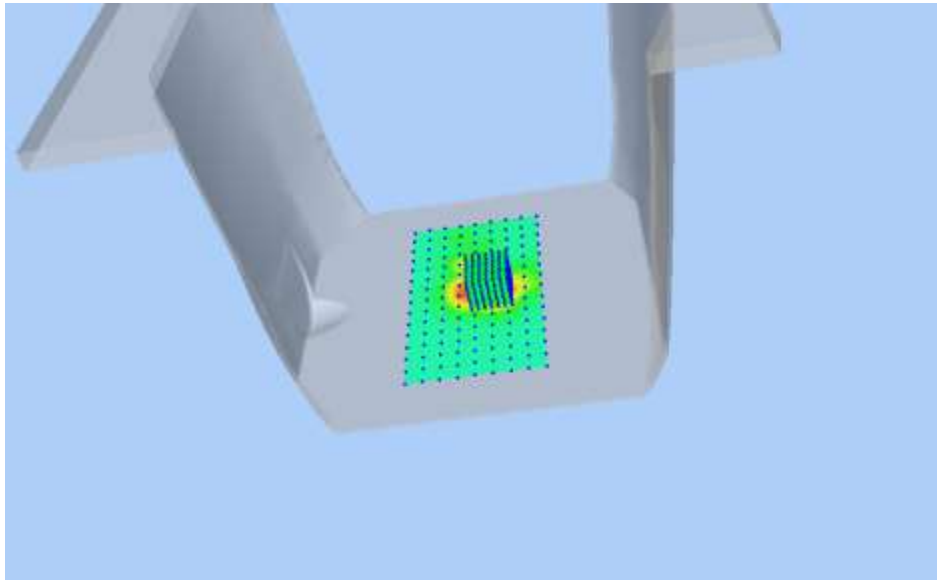


Z Axis Scan

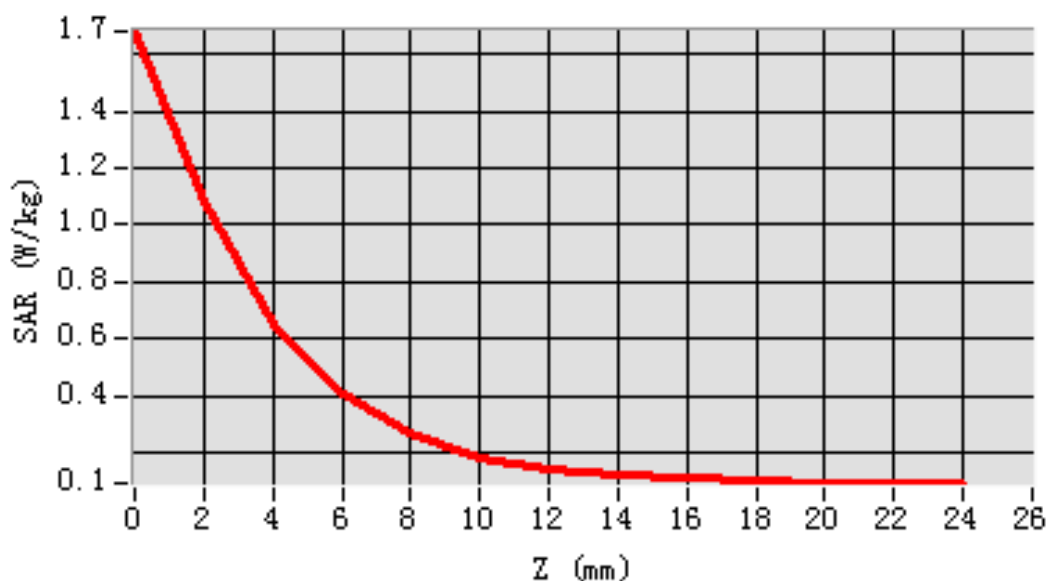


MEAS. 4 Body Plane with Back Side on Channel 48 in IEEE 802.a mode

Test Date: 27/9/2016
Measurement duration: 28 minutes 41 seconds
Signal: WLAN, f=5240.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 48.99; Conductivity: 5.40 S/m
Test condition: Ambient Temperature: 22.8°C, Liquid Temperature: 21.3°C
Probe: SN 34/15 SSE2 EPGO265, ConvF: 1.85
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 7x7x12,dx=4mm, dy=4mm, dz=2mm,Complete
Maximum location: X=10.000000, Y=-2.000000
SAR 10g (W/Kg): 0.287936
SAR 1g (W/Kg): 0.648942
Power drift (%): -4.01
3D screen shot

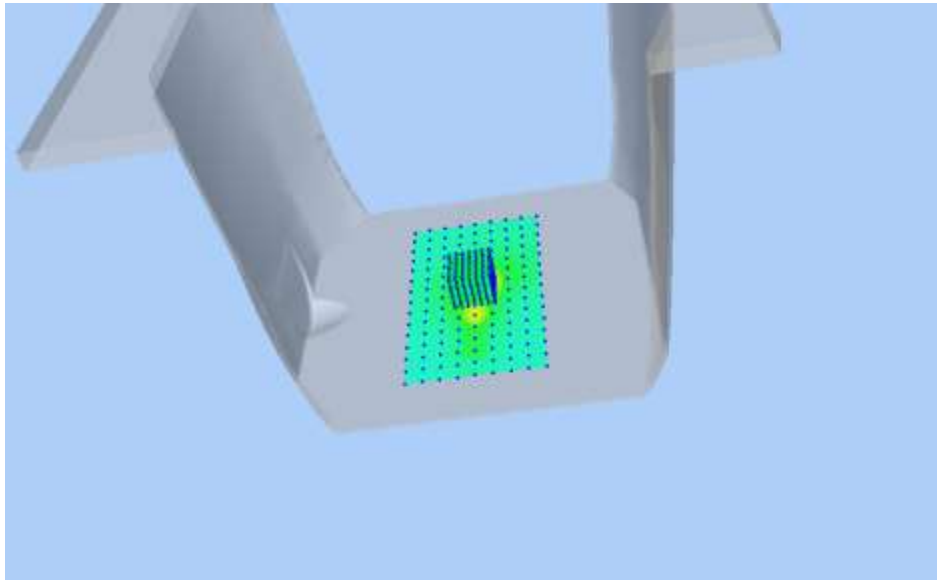


Z Axis Scan

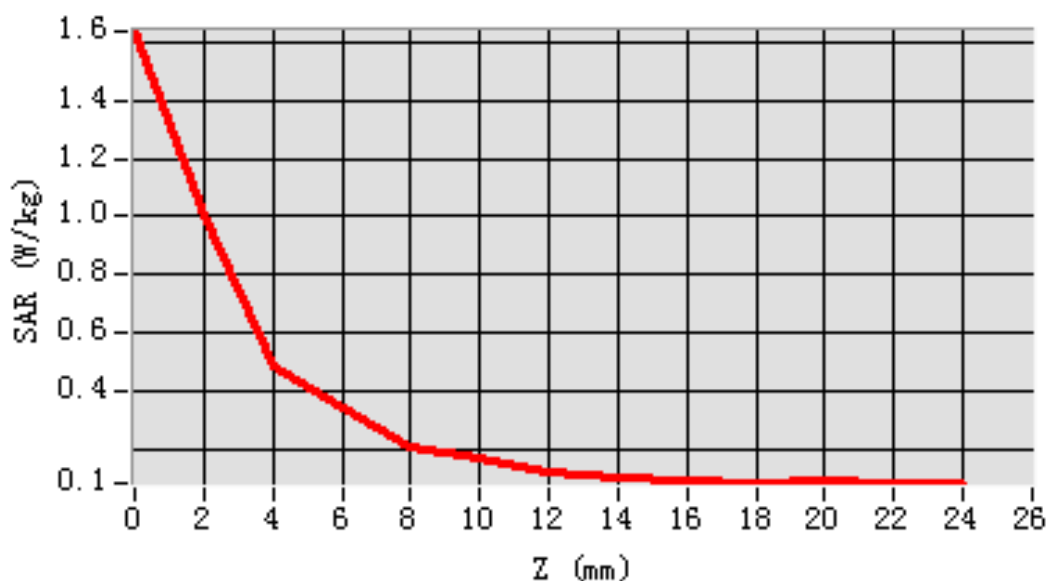


MEAS.5 Body Plane with Left Edge on Channel 48 in IEEE 802.a mode

Test Date: 27/9/2016
Measurement duration: 27 minutes 27 seconds
Signal: WLAN, f=5240.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 48.99; Conductivity: 5.40 S/m
Test condition: Ambient Temperature: 22.8°C, Liquid Temperature: 21.3°C
Probe: SN 34/15 SSE2 EPGO265, ConvF: 1.85
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 7x7x12,dx=4mm, dy=4mm, dz=2mm,Complete
Maximum location: X=0.000000, Y=-2.000000
SAR 10g (W/Kg): 0.255491
SAR 1g (W/Kg): 0.613543
Power drift (%): 2.29
3D screen shot

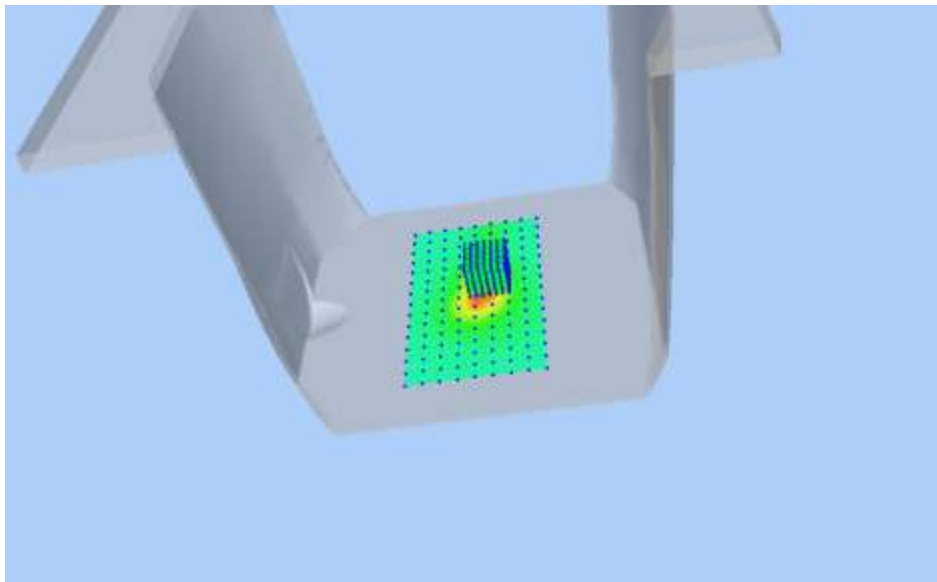


Z Axis Scan

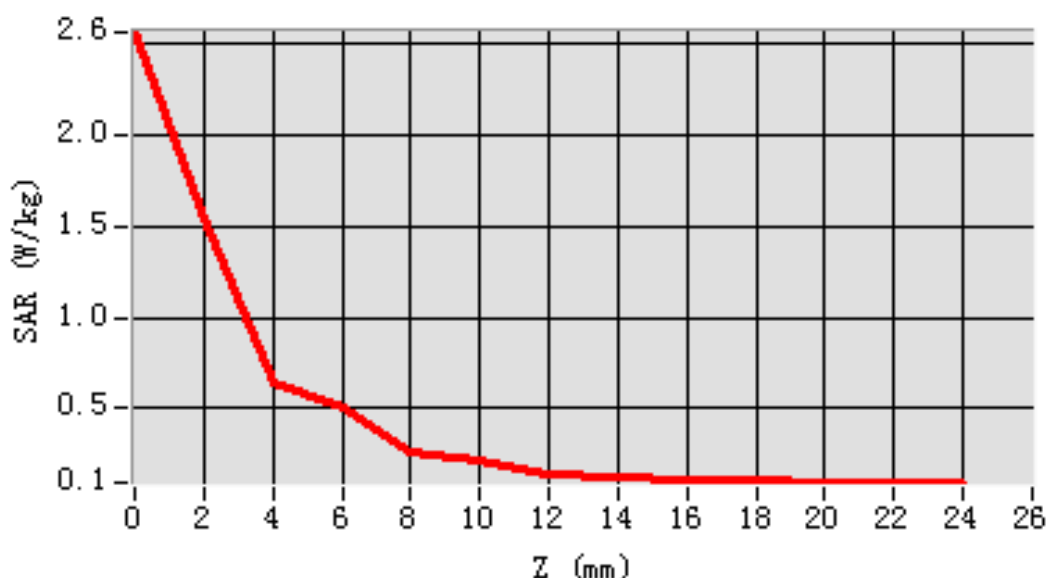


MEAS. 6 Body Plane with Bottom Edge on Channel 48 in IEEE 802.a mode

Test Date: 27/9/2016
Measurement duration: 28 minutes 12 seconds
Signal: WLAN, f=5240.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 48.99; Conductivity: 5.40 S/m
Test condition: Ambient Temperature: 22.8°C, Liquid Temperature: 21.3°C
Probe: SN 34/15 SSE2 EPGO265, ConvF: 1.85
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 7x7x12,dx=4mm, dy=4mm, dz=2mm,Complete
Maximum location: X=10.000000, Y=18.000000
SAR 10g (W/Kg): 0.334781
SAR 1g (W/Kg): 0.873557
Power drift (%): -2.80
3D screen shot

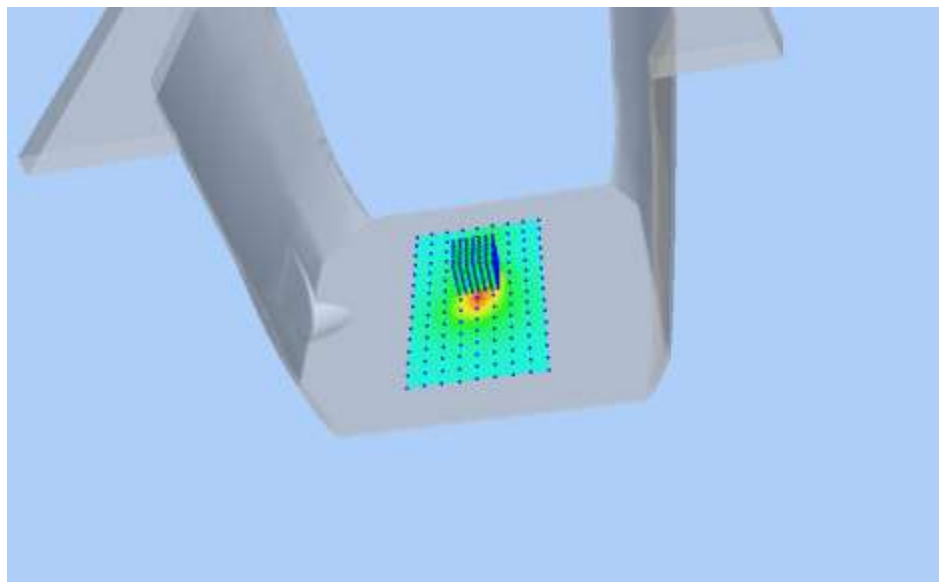


Z Axis Scan

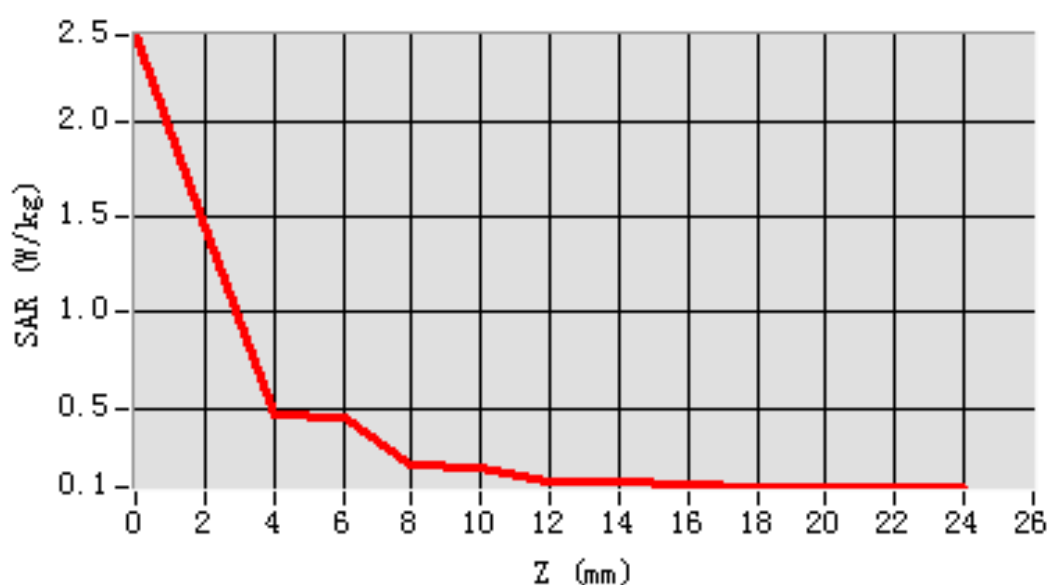


MEAS. 7 Body Plane with Bottom Edge on Channel 36 in IEEE 802.a mode

Test Date: 27/9/2016
Measurement duration: 27 minutes 47 seconds
Signal: WLAN, f=5180.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 49.64; Conductivity: 5.29 S/m
Test condition: Ambient Temperature: 22.8°C, Liquid Temperature: 21.3°C
Probe: SN 34/15 SSE2 EPGO265, ConvF: 1.85
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 7x7x12,dx=4mm, dy=4mm, dz=2mm,Complete
Maximum location: X=0.000000, Y=18.000000
SAR 10g (W/Kg): 0.322048
SAR 1g (W/Kg): 0.832463
Power drift (%): 0.74
3D screen shot

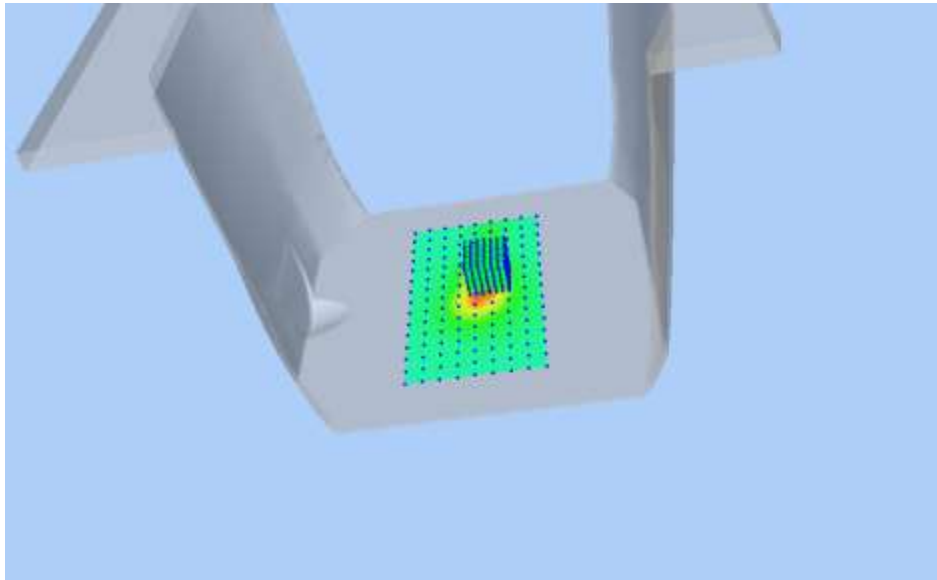


Z Axis Scan

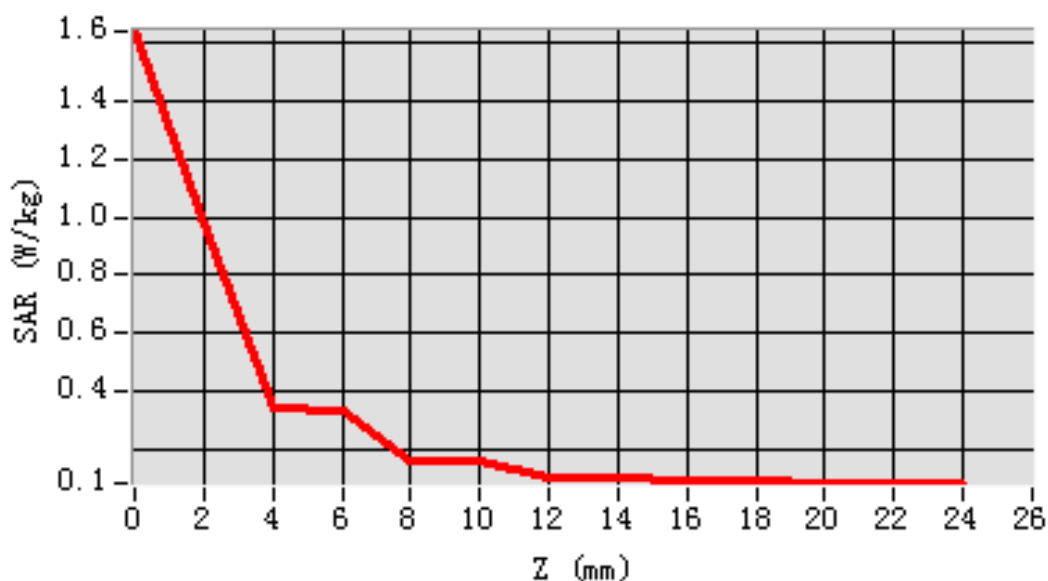


MEAS. 8 Body Plane with Bottom Edge on Channel 44 in IEEE 802.a mode

Test Date: 27/9/2016
Measurement duration: 29 minutes 12 seconds
Signal: WLAN, f=5220.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 49.19; Conductivity: 5.36S/m
Test condition: Ambient Temperature: 22.8°C, Liquid Temperature: 21.3°C
Probe: SN 34/15 SSE2 EPGO265, ConvF: 1.85
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 7x7x12,dx=4mm, dy=4mm, dz=2mm,Complete
Maximum location: X=10.000000, Y=8.000000
SAR 10g (W/Kg): 0.246528
SAR 1g (W/Kg): 0.562869
Power drift (%): 1.05
3D screen shot

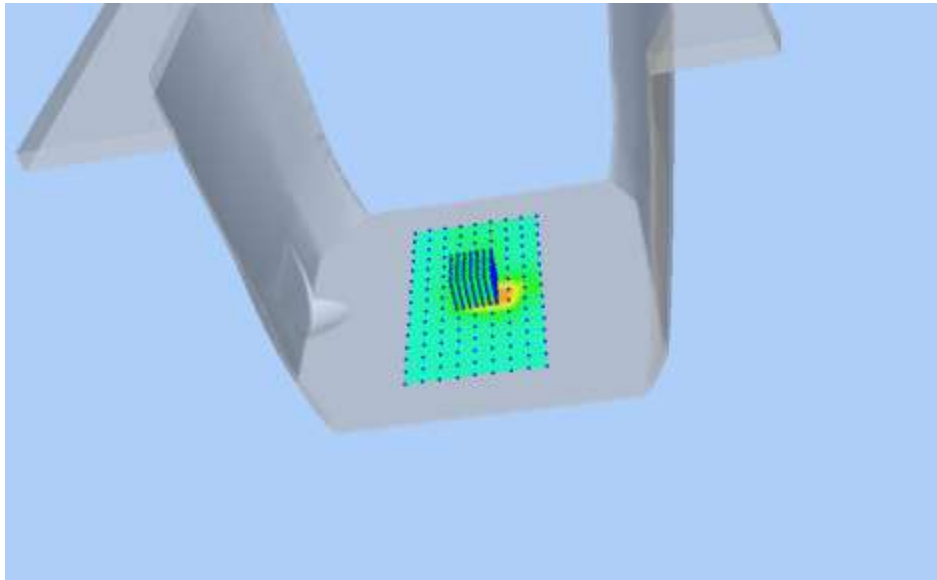


Z Axis Scan

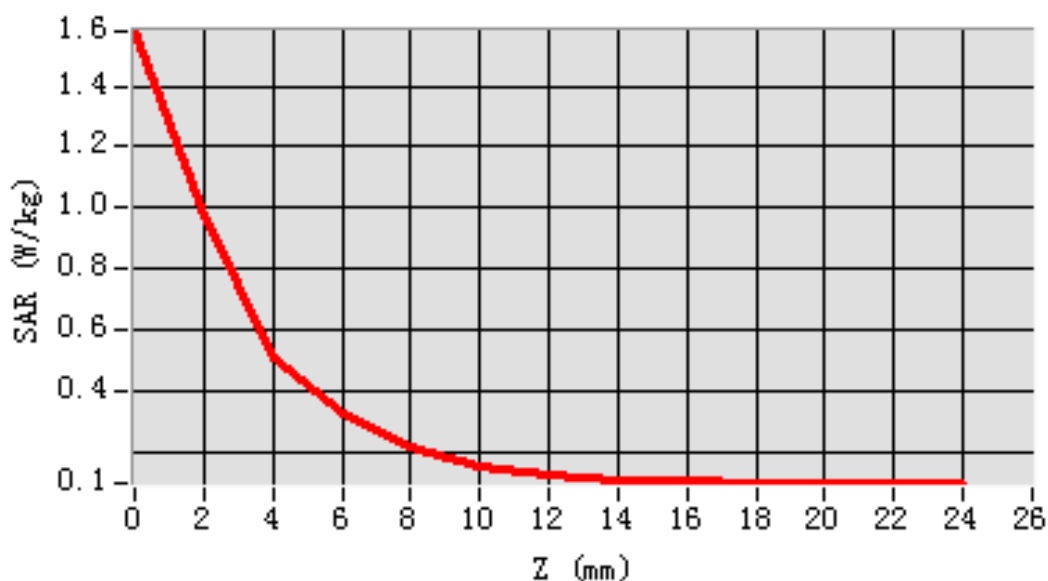


MEAS.9 Body Plane with Back Side on Channel 120 in IEEE 802.a mode

Test Date: 27/9/2016
Measurement duration: 27 minutes 46 seconds
Signal: WLAN, f=5600.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 47.97; Conductivity: 5.78 S/m
Test condition: Ambient Temperature: 22.8°C, Liquid Temperature: 21.3°C
Probe: SN 34/15 SSE2 EPGO265, ConvF: 2.15
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 7x7x12,dx=4mm, dy=4mm, dz=2mm,Complete
Maximum location: X=0.000000, Y=-2.000000
SAR 10g (W/Kg): 0.274483
SAR 1g (W/Kg): 0.532683
Power drift (%): 2.15
3D screen shot

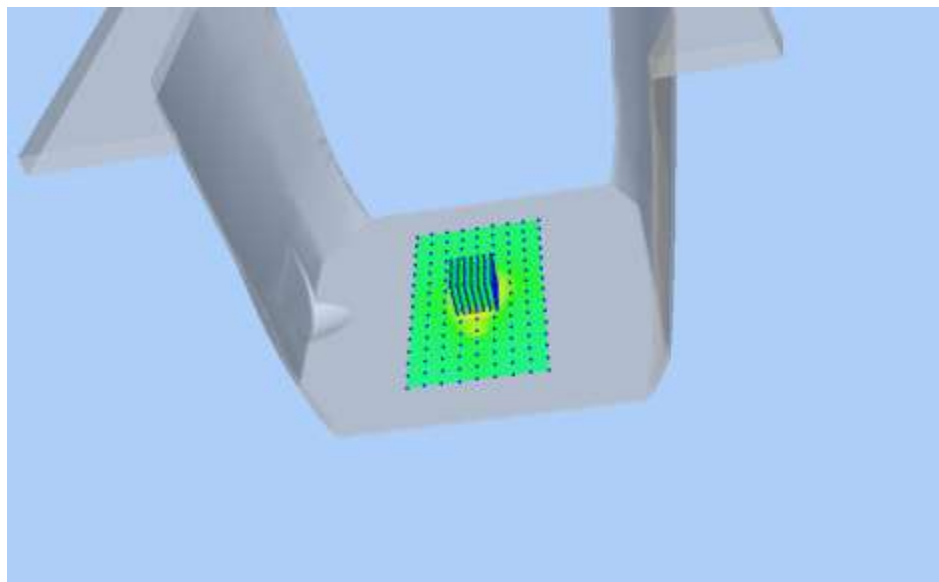


Z Axis Scan

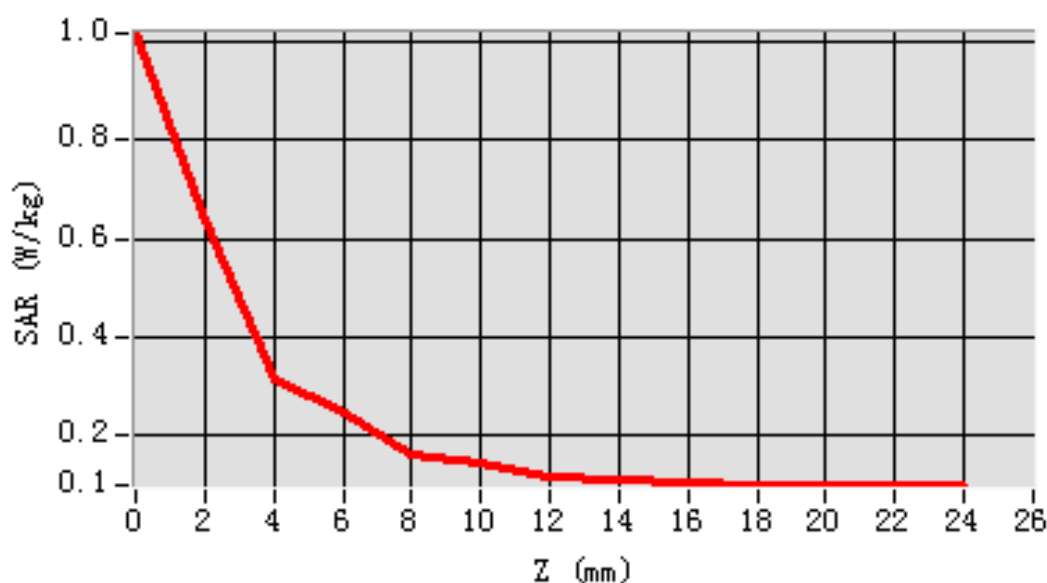


MEAS. 10 Body Plane with Left Edge on Channel 120 in IEEE 802.a mode

Test Date: 27/9/2016
Measurement duration: 27 minutes 14 seconds
Signal: WLAN, f=5600.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 47.97; Conductivity: 5.78 S/m
Test condition: Ambient Temperature: 22.8°C, Liquid Temperature: 21.3°C
Probe: SN 34/15 SSE2 EPGO265, ConvF: 2.15
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 7x7x12,dx=4mm, dy=4mm, dz=2mm,Complete
Maximum location: X=0.000000, Y=-2.000000
SAR 10g (W/Kg): 0.196464
SAR 1g (W/Kg): 0.391799
Power drift (%): -1.21
3D screen shot

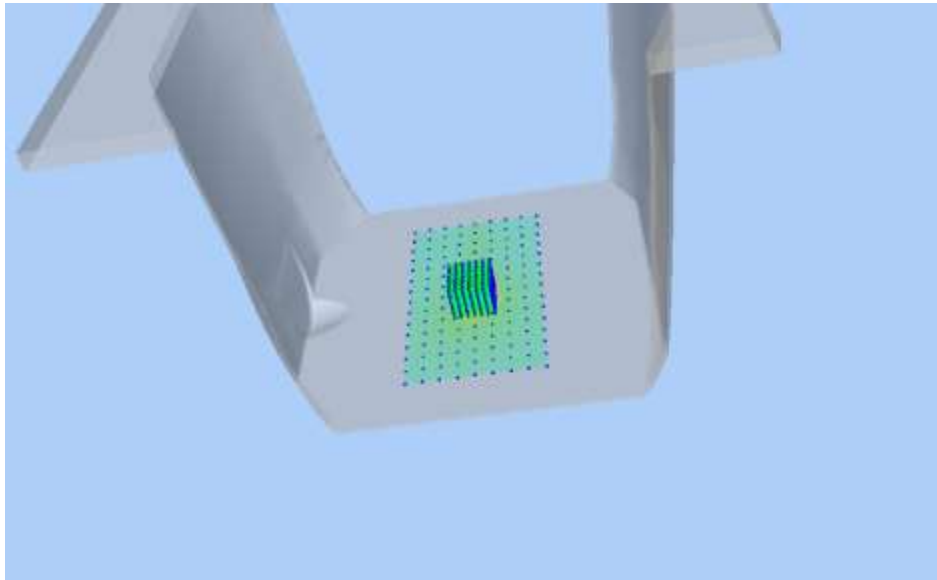


Z Axis Scan

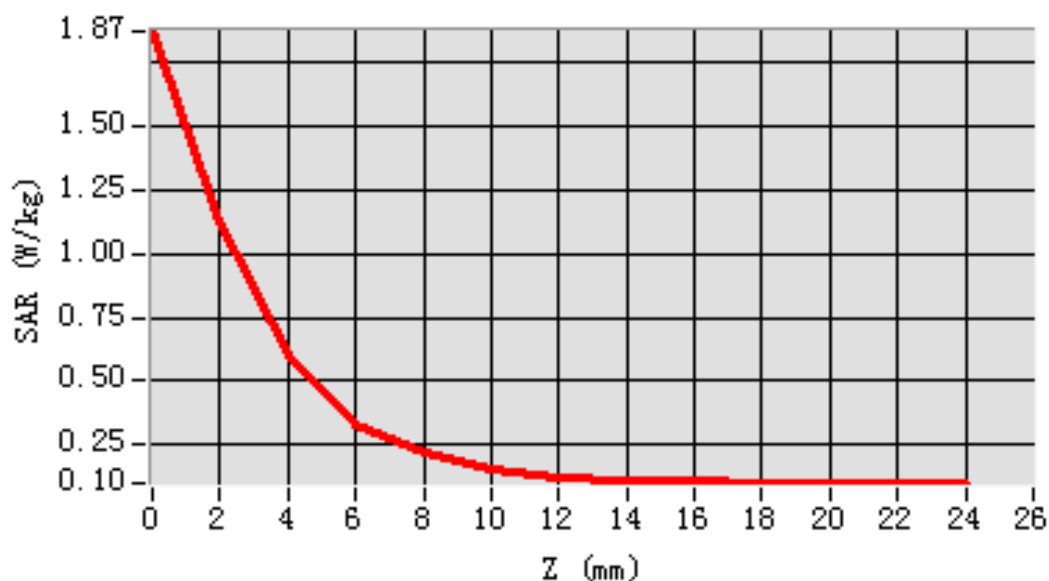


MEAS. 11 Body Plane with Bottom Edge on Channel 120 in IEEE 802.a mode

Test Date: 27/9/2016
Measurement duration: 27 minutes 17 seconds
Signal: WLAN, f=5600.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 47.97; Conductivity: 5.78 S/m
Test condition: Ambient Temperature: 22.8°C, Liquid Temperature: 21.3°C
Probe: SN 34/15 SSE2 EPGO265, ConvF: 2.15
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 7x7x12,dx=4mm, dy=4mm, dz=2mm,Complete
Maximum location: X=0.000000, Y=-12.000000
SAR 10g (W/Kg): 0.276002
SAR 1g (W/Kg): 0.647916
Power drift (%): -4.91
3D screen shot

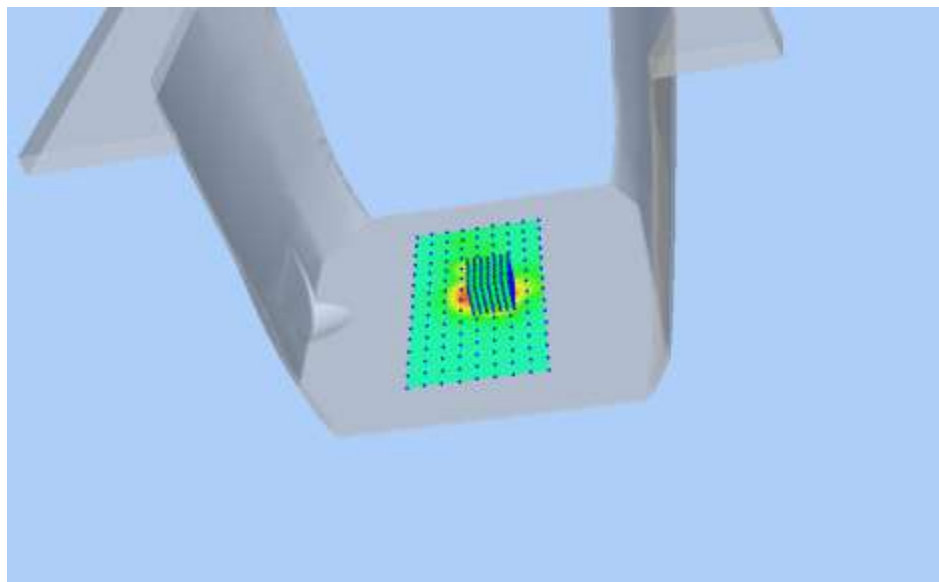


Z Axis Scan

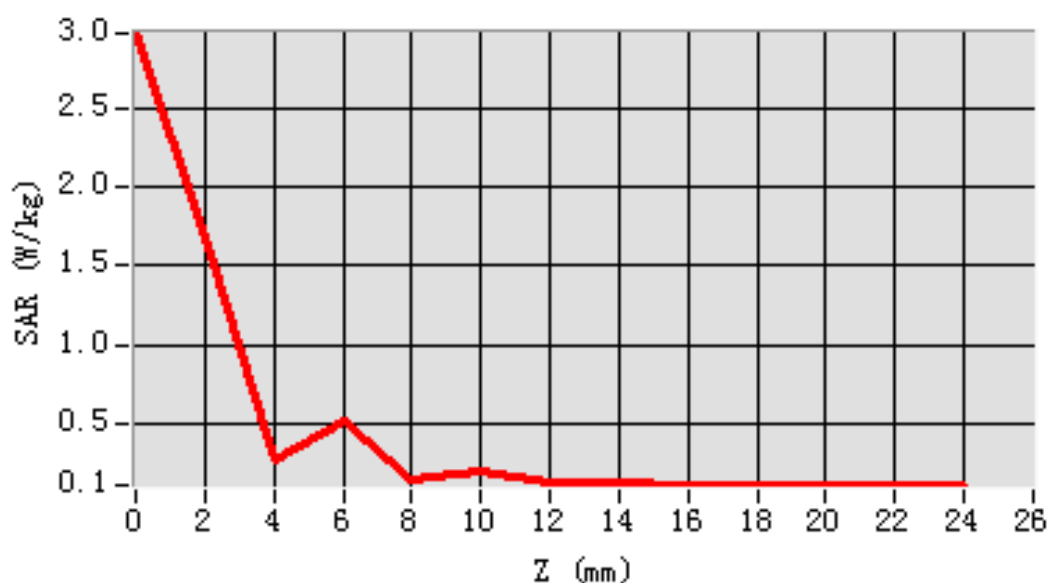


MEAS. 12 Body Plane with Back Side on Channel 161 in IEEE 802.a mode

Test Date: 27/9/2016
Measurement duration: 29 minutes 21 seconds
Signal: WLAN, f=5805.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 46.80; Conductivity: 6.13S/m
Test condition: Ambient Temperature: 22.8°C, Liquid Temperature: 21.3°C
Probe: SN 34/15 SSE2 EPGO265, ConvF: 1.93
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 7x7x12,dx=4mm, dy=4mm, dz=2mm,Complete
Maximum location: X=10.000000, Y=-2.000000
SAR 10g (W/Kg): 0.360471
SAR 1g (W/Kg): 0.885218
Power drift (%): 1.78
3D screen shot

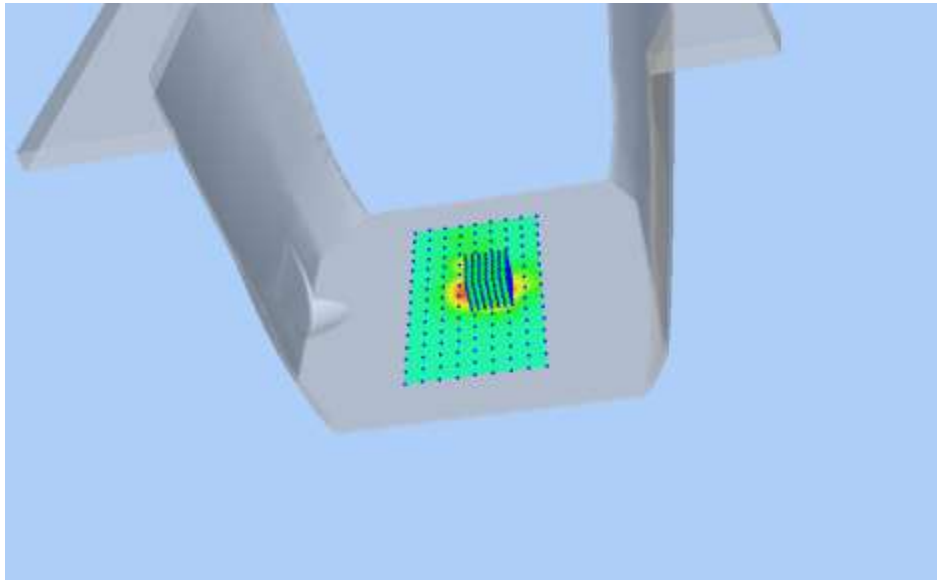


Z Axis Scan

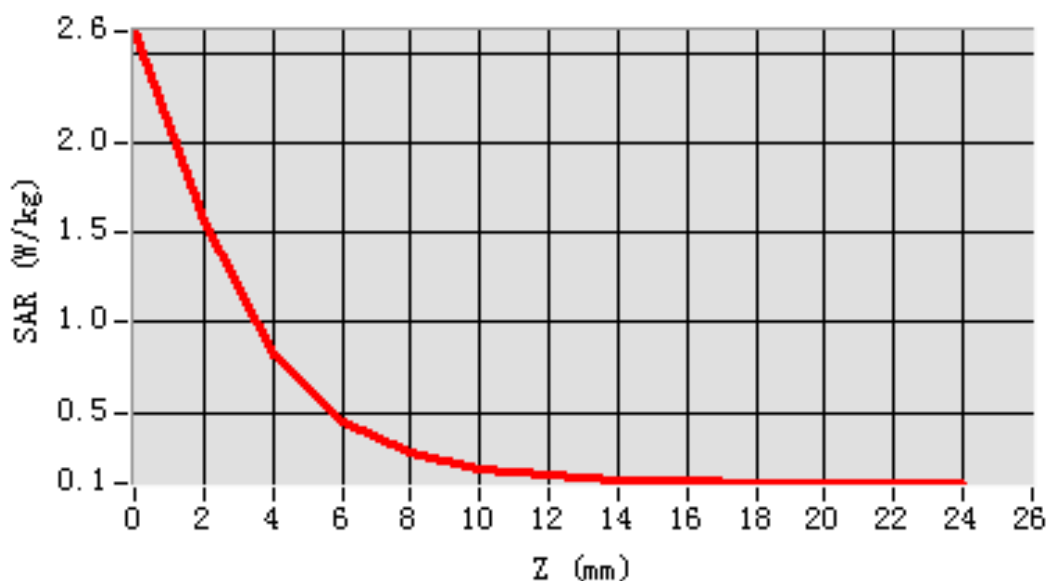


MEAS. 13 Body Plane with Back Side on Channel 149 in IEEE 802.a mode

Test Date: 27/9/2016
Measurement duration: 28 minutes 43 seconds
Signal: WLAN, f=5745.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 47.57; Conductivity: 5.98 S/m
Test condition: Ambient Temperature: 22.8°C, Liquid Temperature: 21.3°C
Probe: SN 34/15 SSE2 EPGO265, ConvF: 1.93
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 7x7x12,dx=4mm, dy=4mm, dz=2mm,Complete
Maximum location: X=10.000000, Y=-2.000000
SAR 10g (W/Kg): 0.353069
SAR 1g (W/Kg): 0.855655
Power drift (%): -3.13
3D screen shot

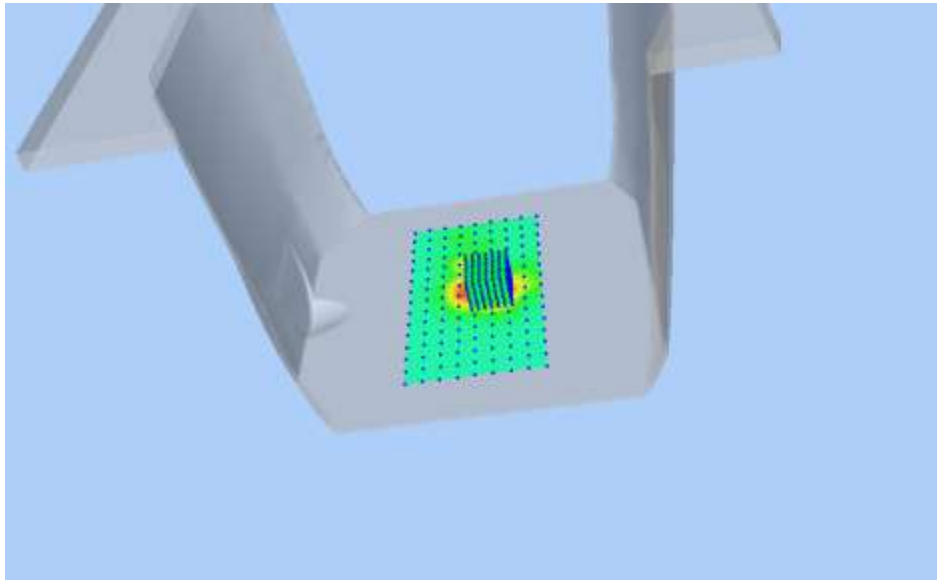


Z Axis Scan

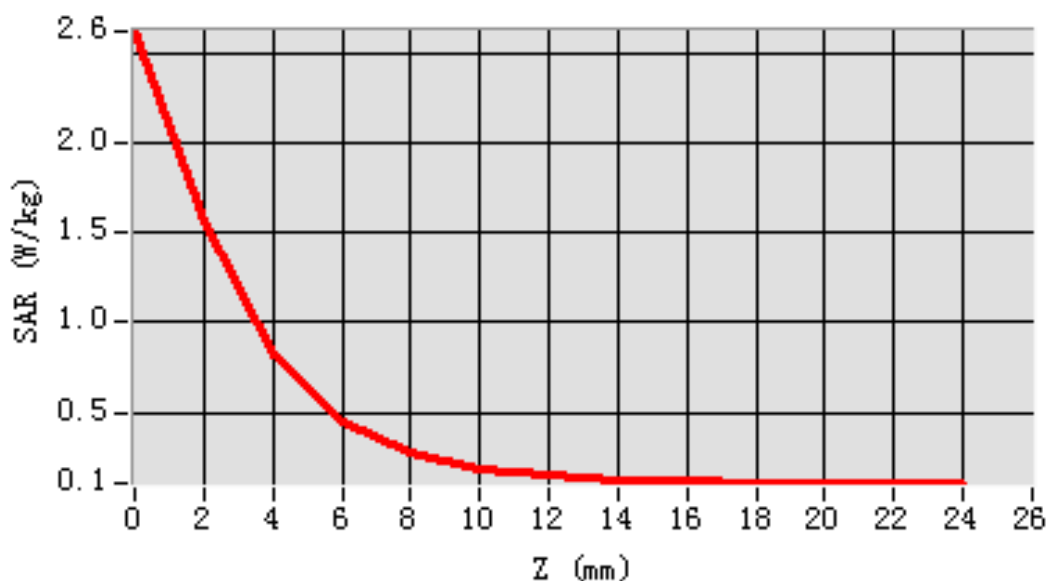


MEAS. 14 Body Plane with Back Side on Channel 157 in IEEE 802.a mode

Test Date: 27/9/2016
Measurement duration: 29 minutes 31 seconds
Signal: WLAN, f=5785.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 47.22; Conductivity: 6.08 S/m
Test condition: Ambient Temperature: 22.8°C, Liquid Temperature: 21.3°C
Probe: SN 34/15 SSE2 EPGO265, ConvF: 1.93
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 7x7x12,dx=4mm, dy=4mm, dz=2mm,Complete
Maximum location: X=10.000000, Y=-2.000000
SAR 10g (W/Kg): 0.342849
SAR 1g (W/Kg): 0.863715
Power drift (%): -1.89
3D screen shot

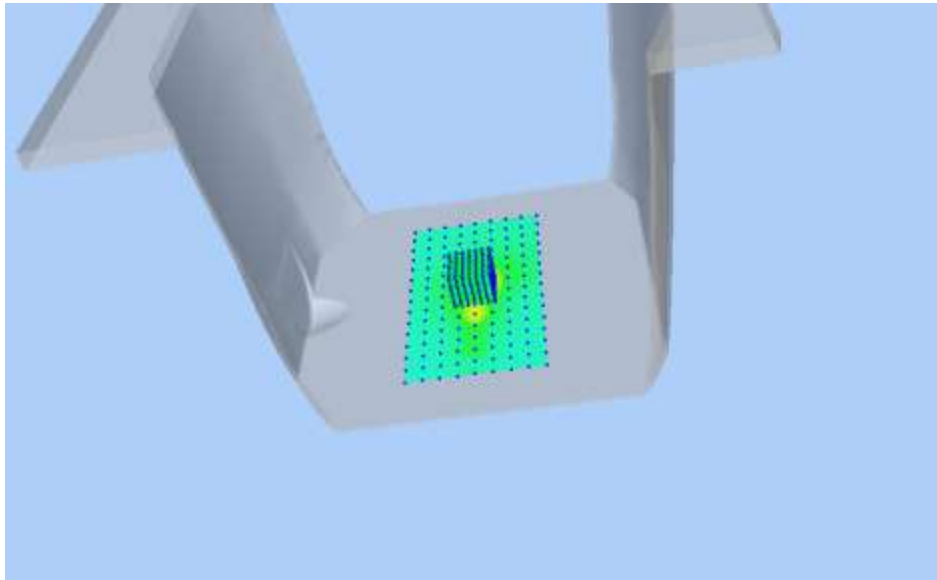


Z Axis Scan

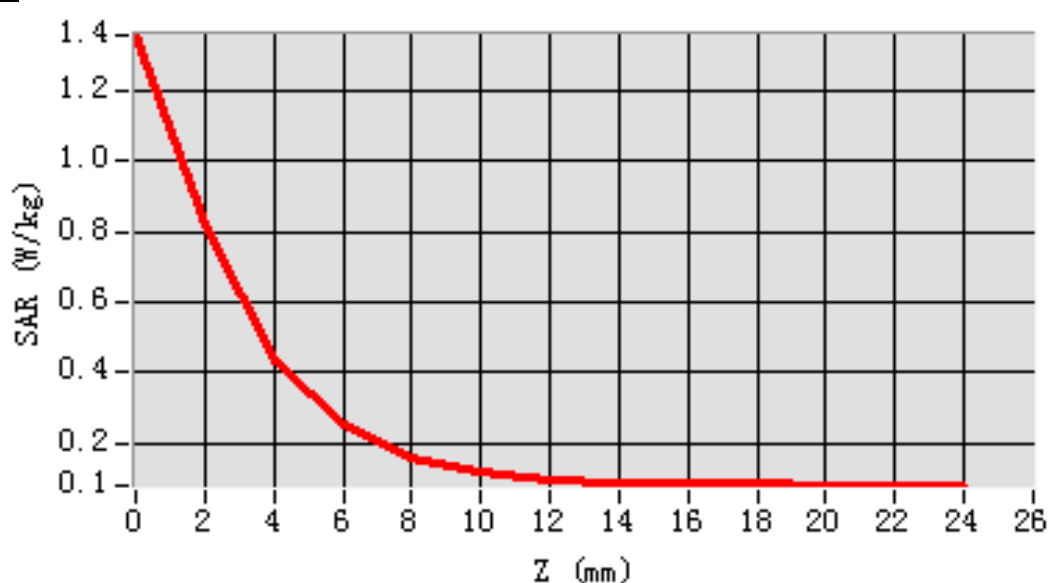


MEAS. 15 Body Plane with Left Edge on Channel 161 in IEEE 802.a mode

Test Date: 27/9/2016
Measurement duration: 27 minutes 44 seconds
Signal: WLAN, f=5805.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 46.80; Conductivity: 6.13 S/m
Test condition: Ambient Temperature: 22.8°C, Liquid Temperature: 21.3°C
Probe: SN 34/15 SSE2 EPGO265, ConvF: 1.93
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 7x7x12,dx=4mm, dy=4mm, dz=2mm,Complete
Maximum location: X=0.000000, Y=18.000000
SAR 10g (W/Kg): 0.205631
SAR 1g (W/Kg): 0.417818
Power drift (%): 4.61
3D screen shot

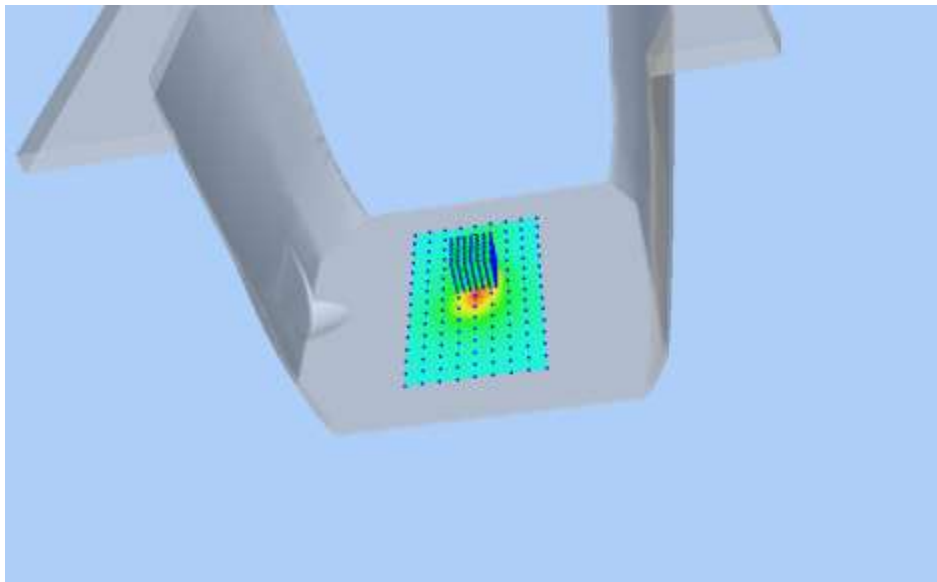


Z Axis Scan

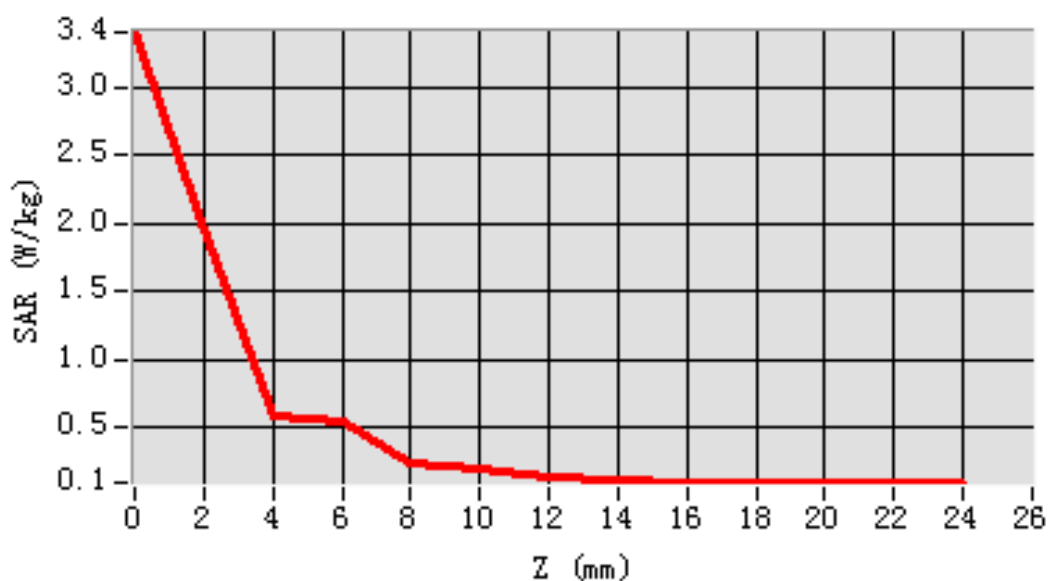


MEAS. 16 Body Plane with Bottom Edge on Channel 161 in IEEE 802.a mode

Test Date: 27/9/2016
Measurement duration: 28 minutes 12 seconds
Signal: WLAN, f=5805.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 46.80; Conductivity: 6.13 S/m
Test condition: Ambient Temperature: 22.8°C, Liquid Temperature: 21.3°C
Probe: SN 34/15 SSE2 EPGO265, ConvF: 1.93
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 7x7x12,dx=4mm, dy=4mm, dz=2mm,Complete
Maximum location: X=0.000000, Y=-2.000000
SAR 10g (W/Kg): 0.390174
SAR 1g (W/Kg): 1.059538
Power drift (%): -2.55
3D screen shot

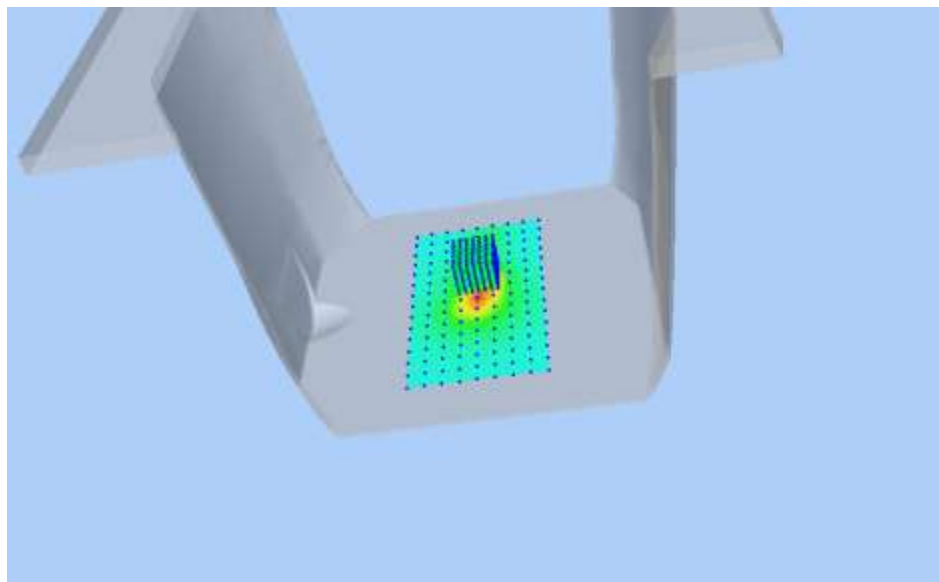


Z Axis Scan

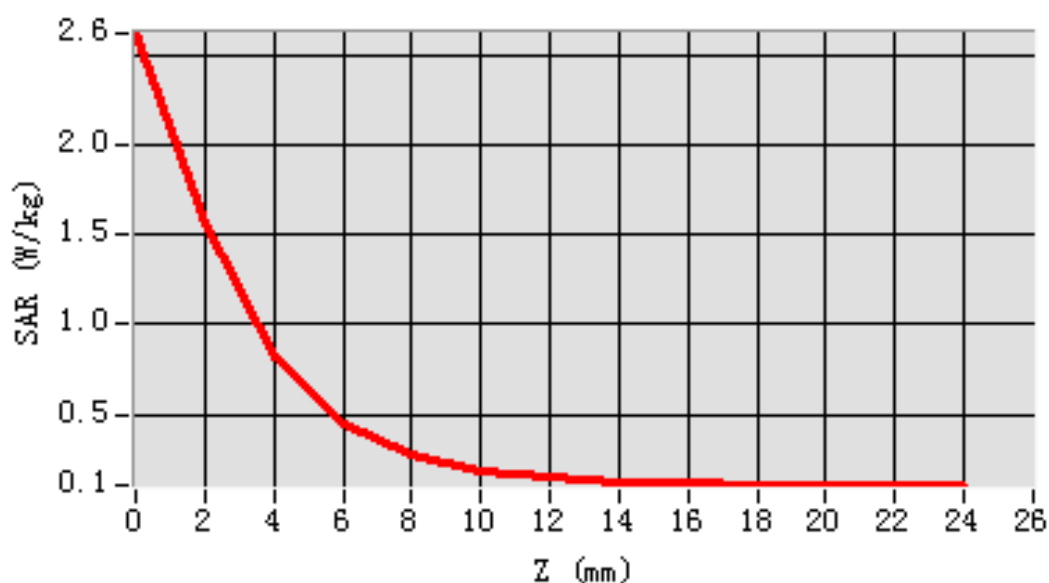


MEAS. 17 Body Plane with Bottom Edge on Channel 149 in IEEE 802.a mode

Test Date: 27/9/2016
Measurement duration: 28 minutes 16 seconds
Signal: WLAN, f=5745.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 47.57; Conductivity: 5.98 S/m
Test condition: Ambient Temperature: 22.8°C, Liquid Temperature: 21.3°C
Probe: SN 34/15 SSE2 EPGO265, ConvF: 1.93
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 7x7x12,dx=4mm, dy=4mm, dz=2mm,Complete
Maximum location: X=0.000000, Y=-2.000000
SAR 10g (W/Kg): 0.362349
SAR 1g (W/Kg): 0.868057
Power drift (%): -1.51
3D screen shot

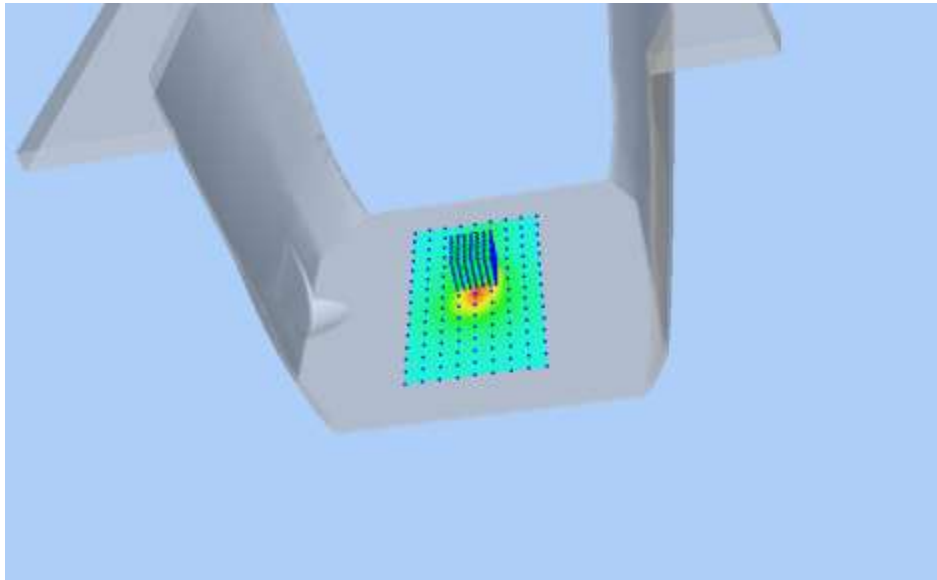


Z Axis Scan

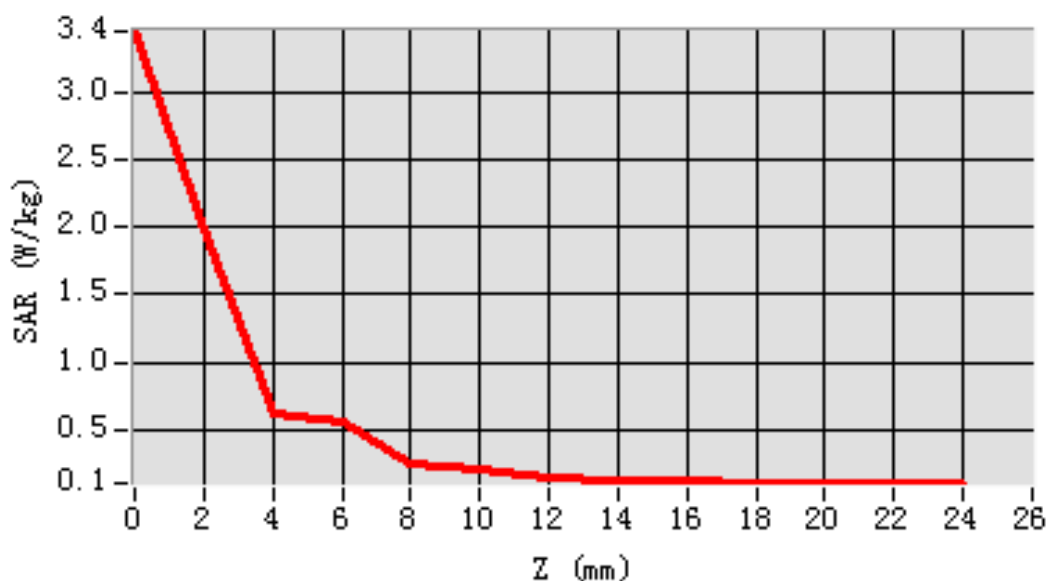


MEAS. 18 Body Plane with Bottom Edge on Channel 157 in IEEE 802.a mode

Test Date: 27/9/2016
Measurement duration: 28 minutes 4 seconds
Signal: WLAN, f=5785.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 47.22; Conductivity: 6.08 S/m
Test condition: Ambient Temperature: 22.8°C, Liquid Temperature: 21.3°C
Probe: SN 34/15 SSE2 EPGO265, ConvF: 1.93
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 7x7x12,dx=4mm, dy=4mm, dz=2mm,Complete
Maximum location: X=0.000000, Y=-12.000000
SAR 10g (W/Kg): 0.392363
SAR 1g (W/Kg): 1.019759
Power drift (%): -1.88
3D screen shot

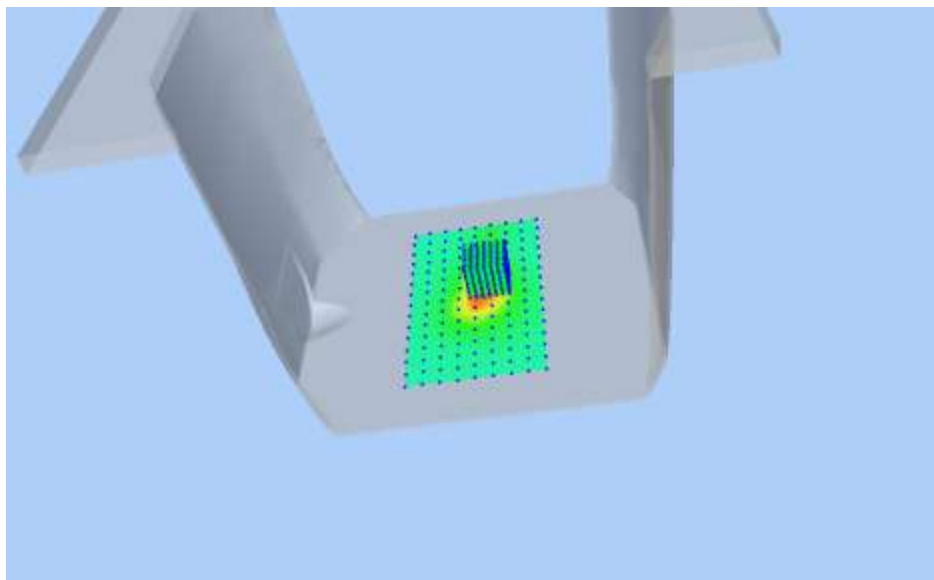


Z Axis Scan

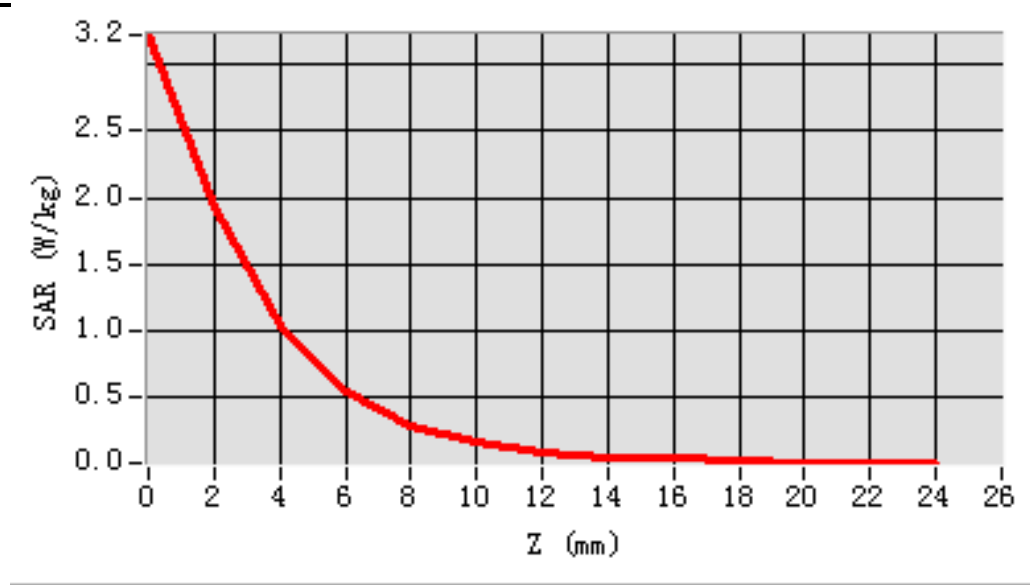


MEAS. 19 Body Plane with Bottom Edge on Channel 157 in IEEE 802.11a mode

Test Date: 28/7/2018
Measurement duration: 26 minutes 33 seconds
Signal: WLAN, f=5785.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 47.20; Conductivity: 5.98 S/m
Test condition: Ambient Temperature: 22.5°C, Liquid Temperature: 21.3°C
Probe: SN 3117 EPGO321, ConvF: 2.39
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 7x7x12,dx=4mm, dy=4mm, dz=2mm,Complete
Maximum location: X=0.000000, Y=8.000000
SAR 10g (W/Kg): 0.368830
SAR 1g (W/Kg): 0.927485
Power drift (%): -1.25
3D screen shot



Z Axis Scan



ANNEX D EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ1870290-AW.pdf”.

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document “BL-SZ1870290-AS.pdf”.

ANNEX F CALIBRATION REPORT

Please refer the document “CALIBRATION REPORT .pdf”.

--END OF REPORT--