FCC SAR TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.

FOR

LTE Digital Mobile Handset

ISSUED TO
ZTE Corporation

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, P. R. China

Tested by: ZongLiyao
Zong Liyao
(Engineer)
Date Jun. 16, 2017

Approved by:
Wei Yanquan
(Chief Engineer)
Date Jun. 16, 2017

Report No.:	BL-SZ1760126-702
EUT Name:	LTE Digital Mobile Handset
Model Name:	BGH Joy A20
Brand Name:	ZTE
FCC ID:	SRQ-A210
Test Standard:	FCC 47 CFR Part 2.1093
	ANSI C95.1: 1999, IEEE 1528: 2013
Maximum SAR:	Head (1 g): 0.442 W/kg
	Body-worn (1 g): 1.089 W/kg
	Hotspot (1 g): 1.098 W/kg
Test Conclusion:	Pass
Test Date:	Jun. 08, 2017 ~ Jun. 13, 2017
Date of Issue:	Jun. 16, 2017

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Revision History

Version	Issue Date	Revisions Content
Rev. 01	Jun. 16, 2017	Initial Issue

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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	The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1. The laboratory has been listed by US Federal Communications Commission to perform electromagnetic emission measurements. The recognition numbers of test site are 832625. 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.
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	20 to 23℃
Ambient Relative Humidity	37 to 51%
Ambient Pressure	100 to 102 KPa

1.4 Announce

(1) The test report reference to the report template version v 2.2.

(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	ZTE Corporation
Address	ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, P. R. China

2.2 Manufacturer Information

Manufacturer	ZTE Corporation
Address	ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, P. R. China

2.3 Factory Information

Factory	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Type	LTE Digital Mobile Handset
Model Name Under Test	BGH Joy A20
Series Model Name	BGH Joy A20, ZTE Blade A210
Description of Model Name Differentiation	The equipment model BGH Joy A20 and ZTE Blade A210 are the LTE Digital Mobile Handset model, the electrical parameters and internal structure of circuit are same, only the model name is different.
Hardware Version	BGH_JOY_A20_V1AMB_B
Software Version	BGH_Joy_A20_ARMovistar_1.01
Dimensions (Approx.)	134.8 × 67.5 × 10.15mm
Weight (Approx.)	150 g
Network and Wireless connectivity	2G Network GSM 850/1900;GPRS Class 12; EDGE Class 12; 3G Network WCDMA Band 2/4/5; 4G Network FDD LTE Band 4/7; WIFI 802.11b, 802.11g and 802.11n (HT20/40) Bluetooth, FM, GPS, Glonass

2.5 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	ZTE
	Model No.	Li3822T43P3h675053
	Serial No.	N/A
	Capacitance	2200 mAh
	Rated Voltage	3.8 V
	Extreme Voltage	4.35 V
Ancillary Equipment 2	Charger	
	Brand Name	ZTE
	Model No.	STC-A22O50I1000USBA-A
	Rated Input	100-240 V~, 300 mA, 50/60 Hz
	Rated Output	5 V⎓, 1 A
Ancillary Equipment 3	USB Cable	
	Length(Approx.)	700 mm
Ancillary Equipment 4	Earphone	
	Length(Approx.)	1.2 m

2.6 Technical Information

The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	GSM, WCDMA, FDD-LTE, 2.4G WLAN, Bluetooth		
Frequency Range	GSM 850	TX: 824 MHz ~ 849 MHz	RX: 869 MHz ~ 894 MHz
	GSM 1900	TX: 1850 MHz ~ 1910 MHz	RX: 1930 MHz ~ 1990 MHz
	WCDMA Band 2	TX: 1850 MHz ~ 1910 MHz	RX: 1930 MHz ~ 1990 MHz
	WCDMA Band 4	TX: 1710 MHz ~ 1755 MHz	RX: 2110 MHz ~ 2155 MHz
	WCDMA Band 5	TX: 824 MHz ~ 849 MHz	RX: 869 MHz ~ 894 MHz
	LTE Band 4	TX: 1710 MHz ~ 1755 MHz	RX: 2110 MHz ~ 2155 MHz
	LTE Band 7	TX: 2500 MHz ~ 2570 MHz	RX: 2620 MHz ~ 2690 MHz
	802.11b/g /n(HT20/HT40)	2400 MHz ~2483.5 MHz	
	Bluetooth	2400 MHz ~2483.5 MHz	
Antenna Type	WWAN: PIFA Antenna WLAN/ Bluetooth: PIFA Antenna		
DTM	Not Support		
Hotspot Function	Support		
Power Reduction	Not Support		
Exposure Category	General Population/Uncontrolled exposure		
EUT Stage	Portable Device		
Product	Type		
	☒ Production unit	☐ 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 941225 D01 v03r01	3G SAR MEAUREMENT PROCEDURES
6	FCC KDB 941225 D05 v02r05	SAR Evaluation Considerations for LTE Devices
7	FCC KDB 941225 D06 v02r01	SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities
8	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
9	FCC KDB 865664 D02 v01r02	RF Exposure Reporting
10	FCC KDB 648474 D04 v01r03	SAR Evaluation Considerations for Wireless Handsets

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)
	Head	Body-worn	Hotspot	Head	Body-worn	Hotspot	
GSM 850	0.419	0.586	0.787	0.442	1.089	1.098	1.6
GSM 1900	0.339	0.590	0.940				
WCDMA Band 2	0.279	0.870	0.895				
WCDMA Band 4	0.283	0.650	0.777				
WCDMA Band 5	0.391	0.502	0.502				
LTE Band 4	0.337	0.811	0.993				
LTE Band 7	**0.442**	**1.089**	**1.098**				
2.4G WLAN	0.320	0.315	0.354				
Verdict	Pass						

Note: The 2.4G WLAN test data reference from original test report: BL-SZ1650193-701 (issued by Shenzhen BALUN Technology Co., Ltd. On Jun. 16, 2016) 10.2 WIFI 2.4GHz.

3.3.2 Highest Simultaneous SAR

Position	Simultaneous Configuration	Simultaneous SAR (W/kg)	Limit (W/kg)	Verdict
Head	LTE QPSK + 2.4G WLAN	0.762	1.6	Pass
Body-worn	LTE QPSK + 2.4G WLAN	1.404	1.6	Pass
Hotspot Mode	LTE QPSK + 2.4G WLAN	1.452	1.6	Pass

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 1.098 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:

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

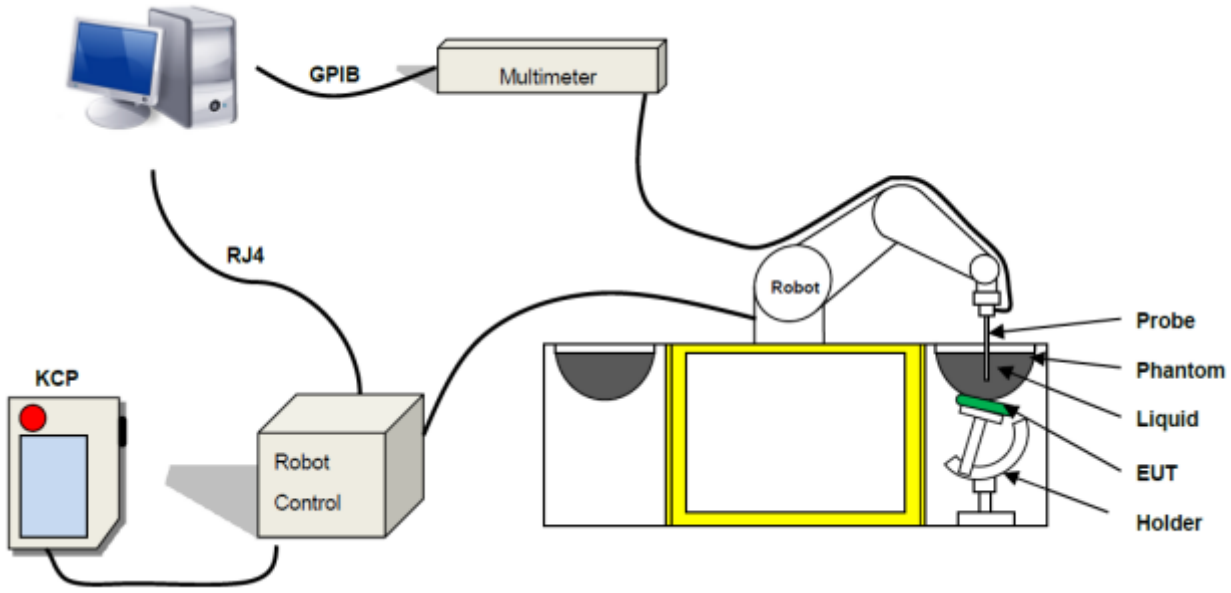
SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

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

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 ±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)

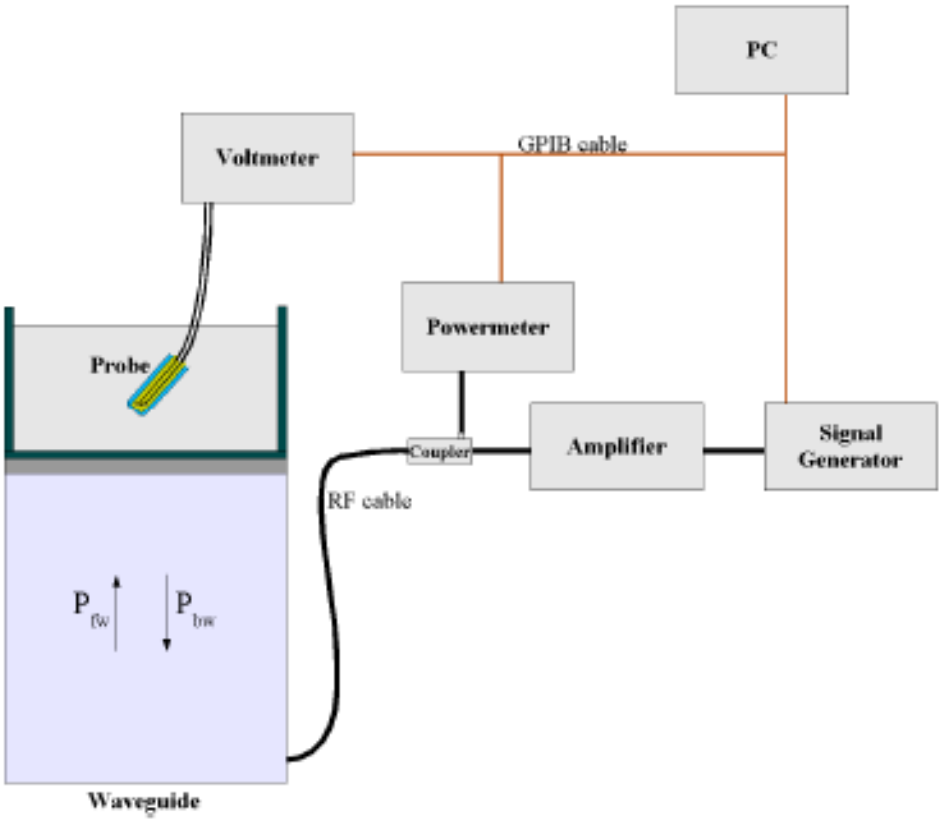
4.2.3 E-Field Probe

For the measurements the Specific Dosimetric E-Field Probe SN 08 /16 EPGO 295 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 IEC62209-1/2 annexe technique using reference guide at the five frequencies.



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

Where :

Pfw	=	Forward Power
Pbw	=	Backward Power
a and b	=	Waveguide Dimensions
ı	=	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)/Vlin(N) (N=1,2,3)

The linearised output voltage Vlin(N) is obtained from the displayed output voltage V(N) using

Vlin(N)=V(N)*(1+V(N)/DCP(N)) (N=1,2,3)

Where the DCP is the diode compression point in mV.

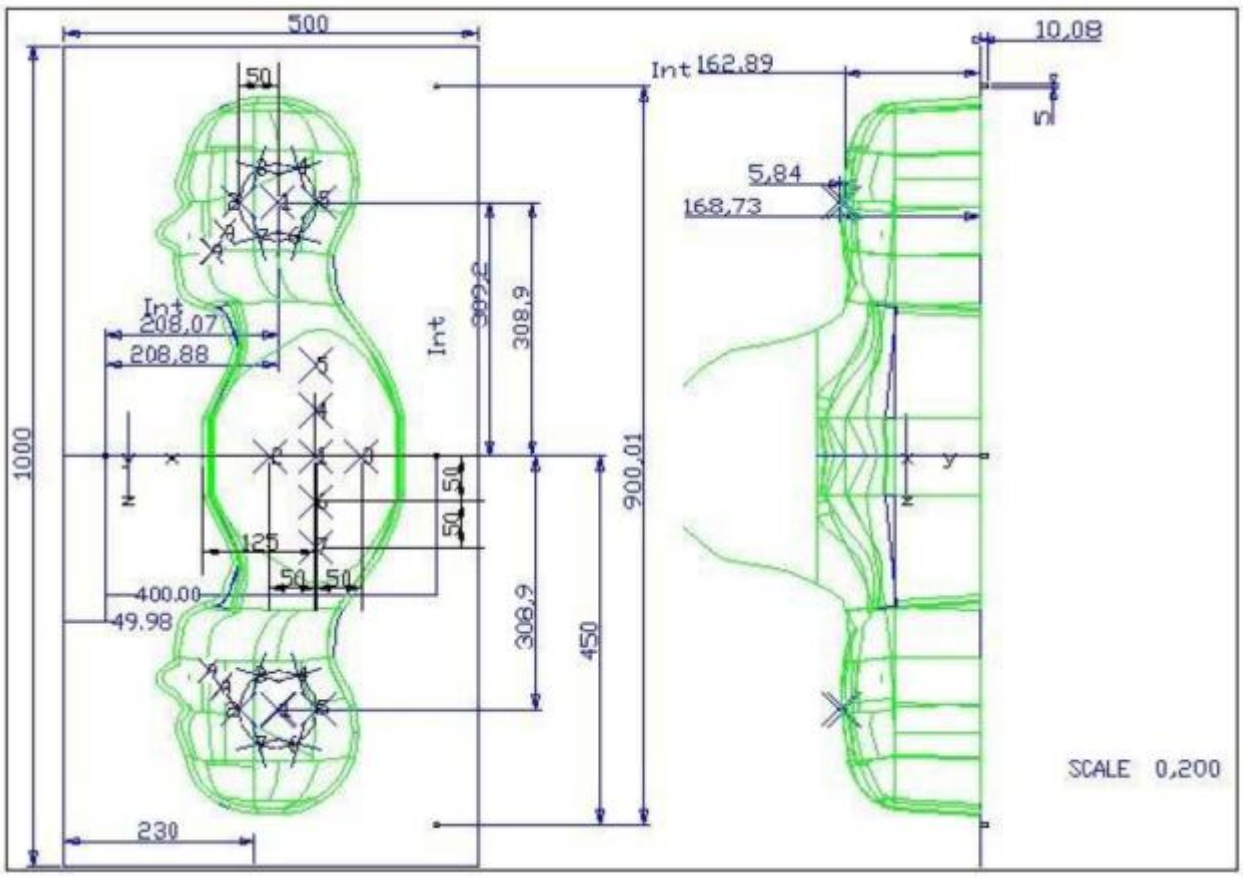
4.2.4 Phantoms

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



Serial Number	Left Head		Right Head		Flat Part	
SN 30/13 SAM103	2	2.00	2	2.03	1	2.09
	3	2.02	3	2.05	2	2.10
	4	2.04	4	2.04	3	2.09
	5	2.04	5	2.07	4	2.11
	6	2.02	6	2.07	5	2.11
	7	2.01	7	2.09	6	2.09
	8	2.04	8	2.10	7	2.11
	9	2.02	9	2.09	-	-
SN 30/13 SAM104	2	2.05	2	2.06	1	2.03
	3	2.08	3	2.03	2	2.03
	4	2.05	4	2.03	3	2.01
	5	2.06	5	2.02	4	2.03
	6	2.08	6	2.02	5	2.03
	7	2.06	7	2.04	6	2.00
	8	2.07	8	2.04	7	1.98
	9	2.07	9	2.05	-	-

4.2.5 Device Holder

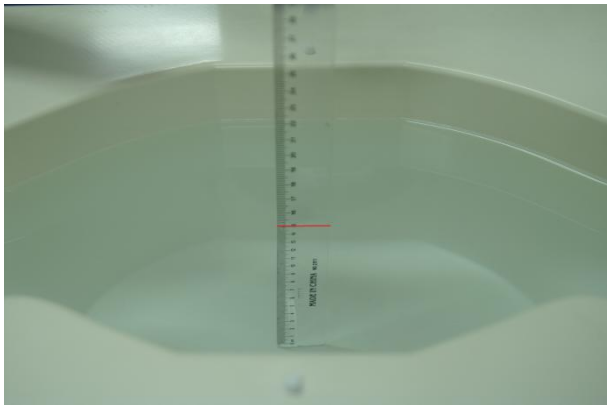
The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of ± 0.5 mm would produce a SAR uncertainty of ± 20 %. Accurate device positioning is therefore crucial for 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%.

Head Liquid Depth	Body Liquid Depth
	

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

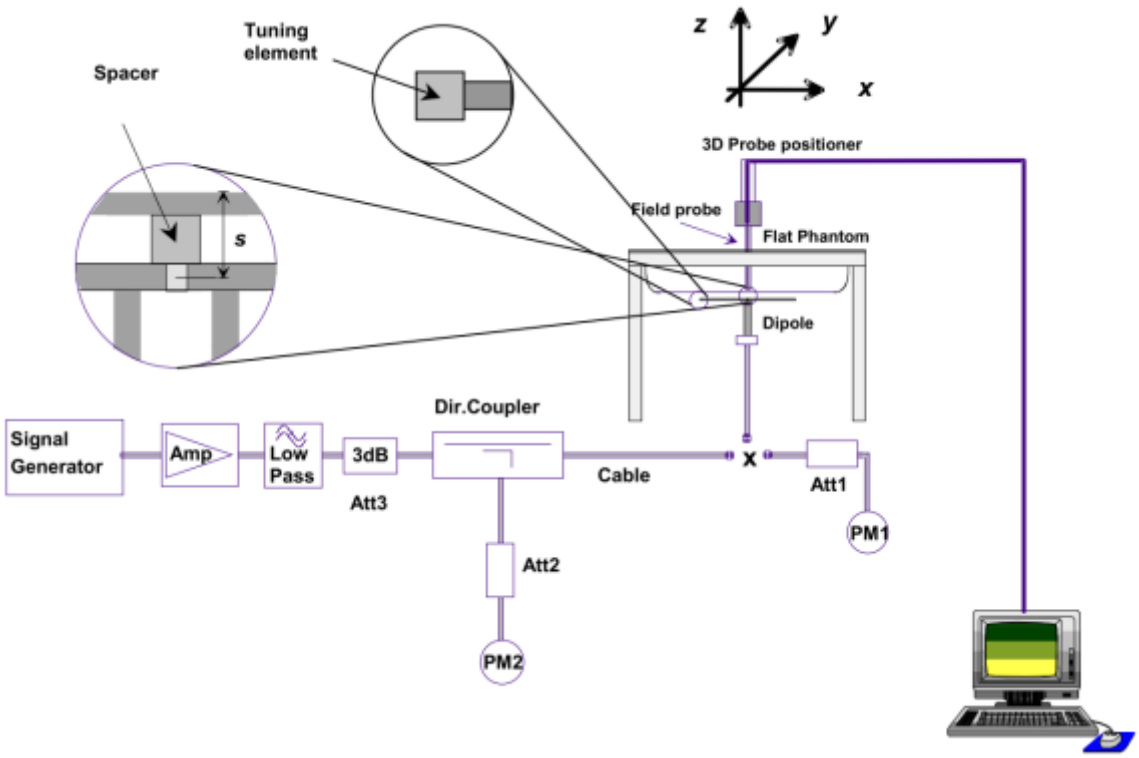
The SATIMO SAR system is equipped with one or more system validation kits. These units together with the predefined measurement procedures within the SATIMO software enable the user to conduct the system performance check and system validation. System validation kit includes a dipole, tripod holder to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

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

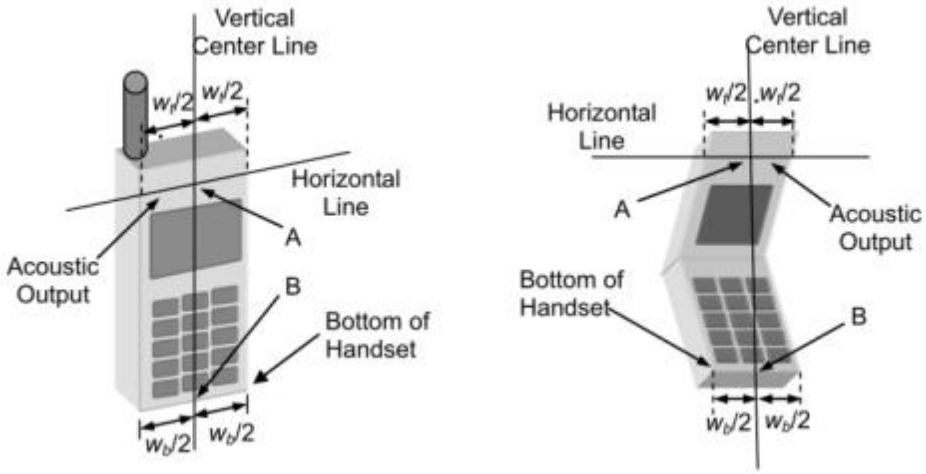
Head exposure is limited to next to the ear voice mode operations. Head SAR compliance is tested according to the test positions defined in IEEE Std 1528-2013 using the SAM phantom illustrated as below.

6.1.1 Define two imaginary lines on the handset

(a) 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.

(b) 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.

(c) 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

(a) 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.

(b) 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

(a) To position the device in the “cheek” position described above.
(b) 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.

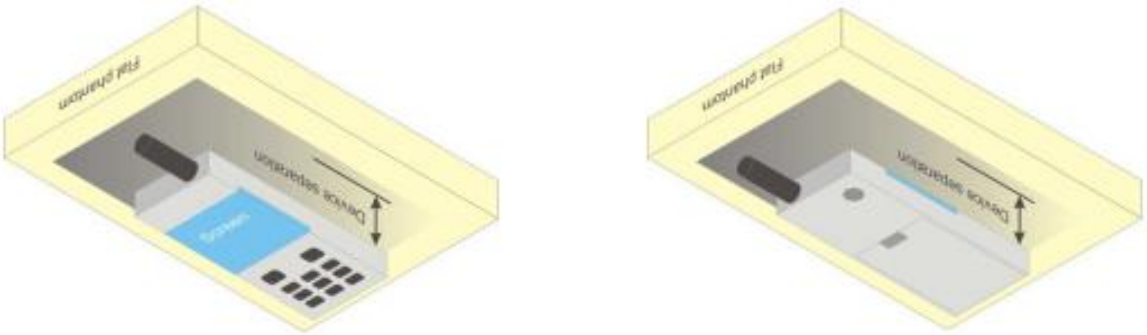
6.2 Body-worn Position Conditions

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 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.

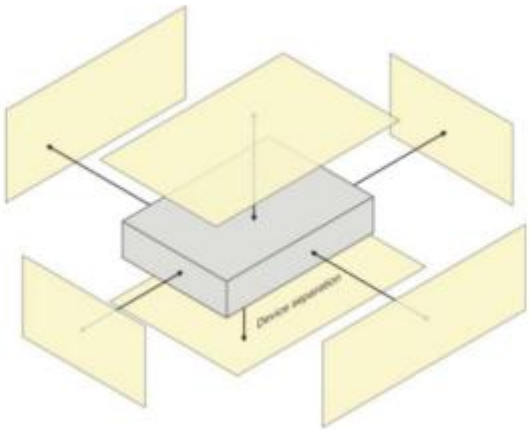
Body-worn accessory SAR compliance is based on a single minimum test separation distance for all wireless and operating modes applicable to each body-worn accessory used by the host, and according to the relevant voice and/or data mode transmissions and operations. If a body-worn accessory supports voice 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.



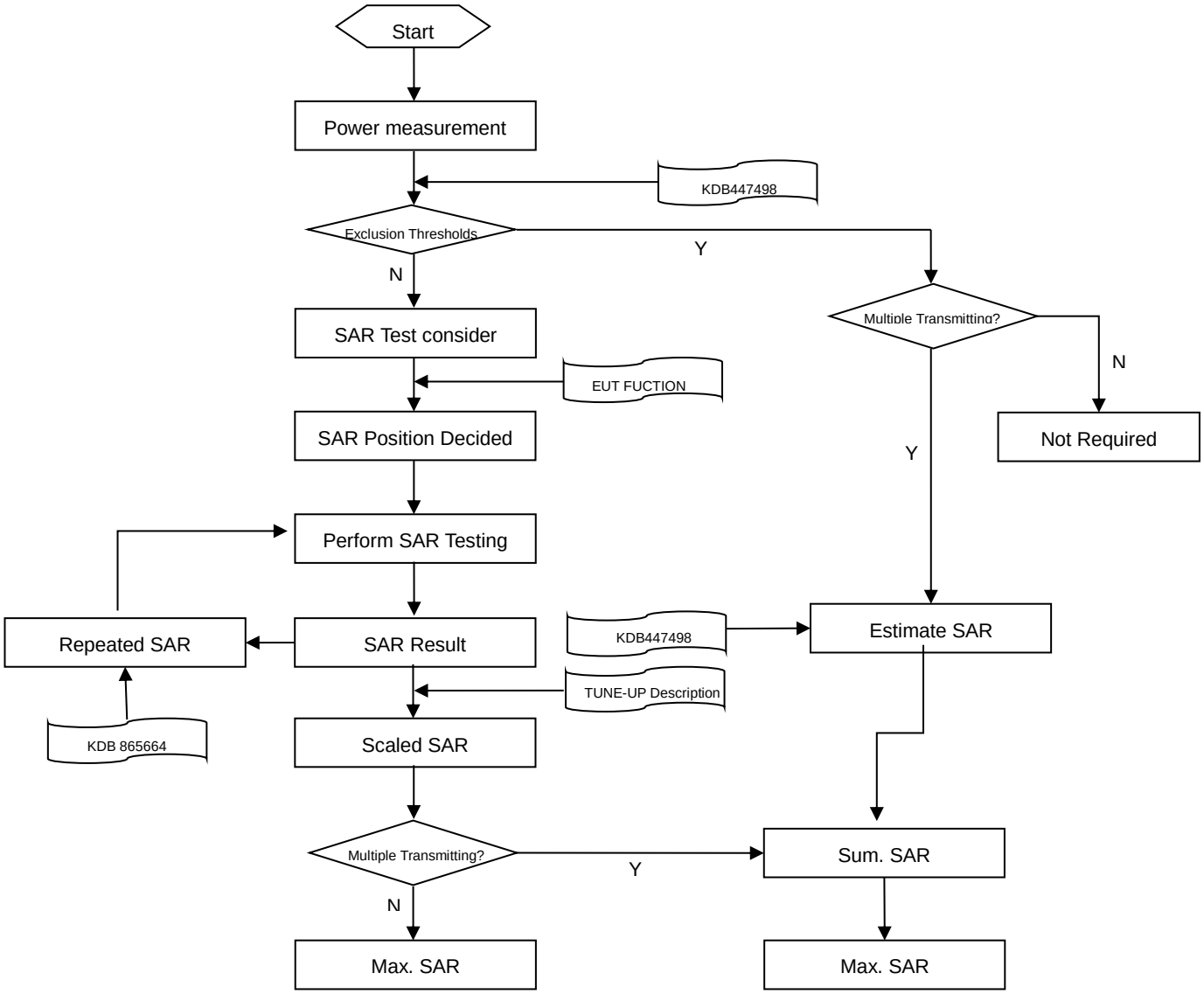
6.3 Hotspot Mode Exposure Position Conditions

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.

<table>
<tr><th colspan="3"></th><th>≤3GHz</th><th>>3GHz</th></tr>
<tr><td colspan="3">Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface</td><td>5±1 mm</td><td>½·δ·ln(2)±0.5 mm</td></tr>
<tr><td colspan="3">Maximum probe angle from probe axis to phantom surface normal at the measurement location</td><td>30°±1°</td><td>20°±1°</td></tr>
<tr><td colspan="3" rowspan="2">Maximum area scan spatial resolution: Δx Area , Δy Area</td><td>≤ 2 GHz: ≤ 15 mm
2 – 3 GHz: ≤ 12 mm</td><td>3–4 GHz: ≤ 12 mm
4 – 6 GHz: ≤ 10 mm</td></tr>
<tr><td colspan="2">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 ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.</td></tr>
<tr><td colspan="3">Maximum zoom scan spatial resolution: Δx Zoom , Δy Zoom</td><td>≤ 2 GHz: ≤ 8 mm
2 –3 GHz: ≤ 5 mm*</td><td>3–4 GHz: ≤ 5 mm*
4 – 6 GHz: ≤ 4 mm*</td></tr>
<tr><td rowspan="5">Maximum zoom scan spatial resolution, normal to phantom surface</td><td colspan="2" rowspan="3">uniform grid: Δz Zoom (n)</td><td rowspan="3">≤ 5 mm</td><td>3–4 GHz: ≤ 4 mm</td></tr>
<tr><td>4–5 GHz: ≤ 3 mm</td></tr>
<tr><td>5–6 GHz: ≤ 2 mm</td></tr>
<tr><td rowspan="2">graded grid</td><td>Δ z Zoom (1): between 1st two points closest to phantom surface</td><td rowspan="2">≤ 4 mm</td><td>3–4 GHz: ≤ 3 mm
4–5 GHz: ≤ 2.5 mm
5–6 GHz: ≤ 2 mm</td></tr>
<tr><td>Δ z Zoom (n>1): between subsequent points</td><td colspan="2">≤ 1.5·Δz Zoom (n-1)</td></tr>
<tr><td>Minimum zoom scan volume</td><td colspan="2">x, y, z</td><td>≥30 mm</td><td>3–4 GHz: ≥ 28 mm
4–5 GHz: ≥ 25 mm
5–6 GHz: ≥ 22 mm</td></tr>
<tr><td colspan="5">Note:
1. δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.
2. * 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.</td></tr>
</table>

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 to16 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 GSM

GSM 850 Band	Burst Average Power(dBm)			Frame-averaged power(dBm)		
Channel	128	190	251	128	190	251
GSM (GMSK, 1-Slot)	32.90	**32.96**	**32.96**	23.90	**23.96**	**23.96**
GPRS (GMSK, 1-Slot)	33.90	33.87	33.89	24.90	24.87	24.89
GPRS (GMSK, 2-Slots)	33.13	33.08	33.13	27.13	27.08	27.13
GPRS (GMSK, 3-Slots)	31.36	31.27	31.37	27.10	27.01	27.11
GPRS (GMSK, 4-Slots)	**30.31**	30.22	30.28	**27.31**	27.22	27.28
EGPRS (8PSK, 1-Slot)	30.63	30.56	30.69	21.63	21.56	21.69
EGPRS (8PSK, 2-Slots)	29.69	29.66	29.71	23.69	23.66	23.71
EGPRS (8PSK, 3-Slots)	27.98	27.83	27.99	23.72	23.57	23.73
EGPRS (8PSK, 4-Slots)	26.85	27.05	**27.10**	23.85	24.05	**24.10**
GSM 1900 Band	Burst Average Power(dBm)			Frame-averaged power(dBm)		
Channel	512	661	810	512	661	810
GSM (GMSK, 1-Slot)	29.91	30.01	**30.10**	20.91	21.01	**21.10**
GPRS (GMSK, 1-Slot)	30.90	30.95	30.97	21.90	21.95	21.97
GPRS (GMSK, 2-Slots)	30.03	30.08	**30.11**	24.03	24.08	**24.11**
GPRS (GMSK, 3-Slots)	27.99	27.89	28.06	23.73	23.63	23.80
GPRS (GMSK, 4-Slots)	26.88	26.97	27.00	23.88	23.97	24.00
EGPRS (8PSK, 1-Slot)	29.39	29.43	29.53	20.39	20.43	20.53
EGPRS (8PSK, 2-Slots)	28.29	28.43	**28.56**	22.29	22.43	**22.56**
EGPRS (8PSK, 3-Slots)	26.37	26.38	26.63	22.11	22.12	22.37
EGPRS (8PSK, 4-Slots)	25.15	25.37	25.54	22.15	22.37	22.54

Note:

1. SAR testing was performed on the maximum frame-Peaked power mode.
2. The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:

   Frame-averaged power = Burst averaged power (1 Tx Slot) - 9 dB

   Frame-averaged power = Burst averaged power (2 Tx Slots) - 6 dB

   Frame-averaged power = Burst averaged power (3 Tx Slots) - 4.26 dB

   Frame-averaged power = Burst averaged power (4 Tx Slots) - 3 dB

8.2 WCDMA

WCDMA Band	Band 2			Band 4		
Channel	9262	9400	9538	1312	1412	1513
RMC 12.2Kbps	23.15	**23.23**	23.17	24.05	23.81	**25.70**
HSDPA Subtest-1	22.18	22.17	22.15	22.97	22.77	22.67
HSDPA Subtest-2	22.18	22.22	22.20	22.92	22.82	22.66
HSDPA Subtest-3	21.76	21.77	21.77	22.47	22.35	22.21
HSDPA Subtest-4	21.76	21.74	21.75	22.48	22.32	22.22
HSUPA Subtest-1	21.14	20.43	20.28	21.14	20.99	20.92
HSUPA Subtest-2	21.08	20.37	20.35	21.08	20.92	20.83
HSUPA Subtest-3	22.07	21.38	21.29	22.07	21.96	21.86
HSUPA Subtest-4	20.53	19.86	19.80	20.53	20.35	20.39
HSUPA Subtest-5	22.99	22.26	22.24	22.99	22.85	22.78
Band	Band 5			-		
Channel	4132	4183	4233	-	-	-
RMC 12.2Kbps	22.97	22.96	**23.06**	-	-	-
HSDPA Subtest-1	21.91	21.89	22.05	-	-	-
HSDPA Subtest-2	22.03	21.92	22.05	-	-	-
HSDPA Subtest-3	21.51	21.44	21.56	-	-	-
HSDPA Subtest-4	21.48	21.42	21.59	-	-	-
HSUPA Subtest-1	19.05	19.97	20.05	-	-	-
HSUPA Subtest-2	20.04	19.99	20.11	-	-	-
HSUPA Subtest-3	21.04	20.97	21.08	-	-	-
HSUPA Subtest-4	19.54	19.43	19.58	-	-	-
HSUPA Subtest-5	22.00	21.92	22.07	-	-	-

8.3 LTE

LTE Band 4							
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
20 MHz	Channel	20050	20175	20300	20050	20175	20300
	1 (RB_Pos:0)	23.34	23.43	**23.44**	22.84	22.78	22.81
	1 (RB_Pos:50)	23.36	23.36	23.34	22.86	22.73	22.70
	1 (RB_Pos:99)	23.33	23.29	23.21	22.81	22.71	22.55
	50 (RB_Pos:0)	22.34	22.42	**22.43**	21.41	21.47	21.46
	50 (RB_Pos:25)	22.30	22.34	22.34	21.38	21.41	21.40
	50 (RB_Pos:50)	22.32	22.33	22.28	21.39	21.41	21.32
	100 (RB_Pos:0)	22.30	**22.35**	22.32	21.39	21.40	21.38
15 MHz	Channel	20025	20175	20325	20025	20175	20325
	1 (RB_Pos:0)	23.30	23.44	23.40	22.20	22.75	22.70
	1 (RB_Pos:38)	23.32	23.36	23.27	22.21	22.67	22.59
	1 (RB_Pos:74)	23.29	23.29	23.20	22.17	22.62	22.41
	36 (RB_Pos:0)	22.35	22.43	22.35	21.35	21.46	21.35
	36 (RB_Pos:20)	22.35	22.39	22.30	21.36	21.43	21.31
	36 (RB_Pos:39)	22.38	22.35	22.22	21.34	21.41	21.21
	75 (RB_Pos:0)	22.39	22.42	22.31	21.39	21.43	21.32
10 MHz	Channel	20000	20175	20350	20000	20175	20350
	1 (RB_Pos:0)	23.29	23.38	23.17	22.19	22.70	22.25
	1 (RB_Pos:25)	23.31	23.37	23.11	22.22	22.67	22.16
	1 (RB_Pos:49)	23.33	23.33	23.02	22.21	22.61	22.05
	25 (RB_Pos:0)	22.29	22.32	22.19	21.37	21.41	21.36
	25 (RB_Pos:12)	22.31	22.33	22.14	21.38	21.43	21.31
	25 (RB_Pos:25)	22.31	22.29	22.10	21.39	21.40	21.27
	50 (RB_Pos:0)	22.33	22.33	22.19	21.33	21.40	21.29
5 MHz	Channel	19975	20175	20375	19975	20175	20375
	1 (RB_Pos:0)	23.42	23.33	23.18	22.46	22.82	22.23
	1 (RB_Pos:13)	23.44	23.33	23.16	22.48	22.83	22.22
	1 (RB_Pos:24)	23.43	23.31	23.12	22.49	22.81	22.17
	12 (RB_Pos:0)	22.35	22.38	22.19	21.48	21.54	21.30
	12 (RB_Pos:6)	22.34	22.35	22.18	21.47	21.51	21.28
	12 (RB_Pos:13)	22.35	22.36	22.14	21.48	21.53	21.24
	25 (RB_Pos:0)	22.31	22.31	22.09	21.39	21.41	21.11
3 MHz	Channel	19965	20175	20385	19965	20175	20385
	1 (RB_Pos:0)	23.21	23.28	23.02	22.13	22.60	22.07
	1 (RB_Pos:8)	23.30	23.35	23.06	22.18	22.66	22.07
	1 (RB_Pos:14)	23.22	23.27	22.97	22.10	22.60	21.98
	8 (RB_Pos:0)	22.33	22.35	22.10	21.46	21.47	21.18
	8 (RB_Pos:3)	22.36	22.37	22.11	21.49	21.48	21.17
	8 (RB_Pos:7)	22.34	22.36	22.09	21.46	21.45	21.15

	15 (RB_Pos:0)	22.31	22.31	22.08	21.37	21.39	21.10
1.4 MHz	Channel	19957	20175	20393	19957	20175	20393
	1 (RB_Pos:0)	23.30	23.30	23.01	22.34	22.64	22.04
	1 (RB_Pos:3)	23.38	23.39	23.09	22.42	22.67	22.12
	1 (RB_Pos:5)	23.30	23.29	23.02	22.36	22.62	22.06
	3 (RB_Pos:0)	23.32	23.39	23.10	22.36	22.54	22.30
	3 (RB_Pos:1)	23.32	23.37	23.10	22.34	22.49	22.27
	3 (RB_Pos:3)	23.35	23.39	23.12	22.39	22.52	22.29
	6 (RB_Pos:0)	22.27	22.27	22.04	21.44	21.20	21.24

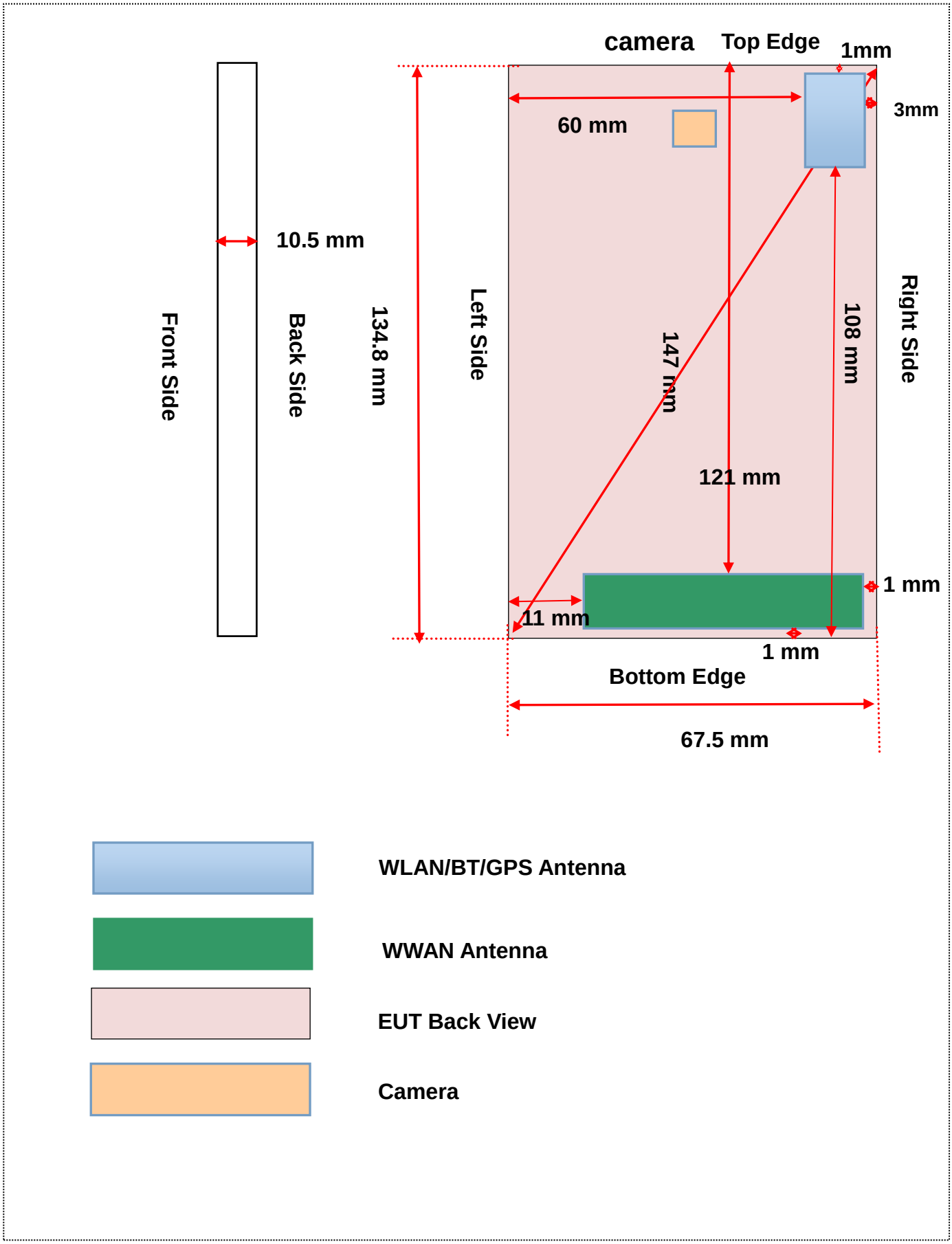
LTE Band 7							
Bandwidth (MHz)	RB Set	Power (dBm)					
		QPSK			16QAM		
20 MHz	Channel	20850	21100	21350	20850	21100	21350
	1 (RB_Pos:0)	22.91	22.77	**23.38**	22.25	22.10	22.61
	1 (RB_Pos:50)	23.18	22.53	22.78	22.55	21.95	22.19
	1 (RB_Pos:99)	23.11	23.15	23.04	22.57	22.54	22.44
	50 (RB_Pos:0)	22.11	21.72	**22.23**	21.11	20.87	21.17
	50 (RB_Pos:25)	22.07	21.70	22.10	21.05	20.90	21.18
	50 (RB_Pos:50)	22.03	21.92	22.05	21.02	21.12	21.21
	100 (RB_Pos:0)	22.09	21.81	**22.20**	21.06	21.04	21.23
15 MHz	Channel	20825	21100	21375	20825	21100	21375
	1 (RB_Pos:0)	22.88	22.76	23.03	21.67	22.03	22.32
	1 (RB_Pos:38)	23.16	22.59	22.69	21.99	21.92	22.10
	1 (RB_Pos:74)	23.19	23.05	23.01	21.96	22.44	22.33
	36 (RB_Pos:0)	22.17	21.72	22.06	21.15	20.89	21.13
	36 (RB_Pos:20)	22.21	21.72	21.96	21.15	20.97	21.13
	36 (RB_Pos:39)	22.20	21.88	21.94	21.14	21.15	21.13
	75 (RB_Pos:0)	22.22	21.80	22.01	21.14	21.02	21.20
10 MHz	Channel	20800	21100	21400	20800	21100	21400
	1 (RB_Pos:0)	22.75	22.59	22.73	21.52	21.86	21.79
	1 (RB_Pos:25)	23.18	22.67	22.63	22.04	22.02	21.77
	1 (RB_Pos:49)	23.20	22.68	22.78	22.04	22.04	21.85
	25 (RB_Pos:0)	22.07	21.73	21.98	21.12	20.95	21.18
	25 (RB_Pos:12)	22.13	21.80	21.94	21.14	21.04	21.16
	25 (RB_Pos:25)	22.15	21.85	21.96	21.11	21.10	21.23
	50 (RB_Pos:0)	22.15	21.82	21.97	21.08	21.03	21.13
5 MHz	Channel	20775	21100	21425	20775	21100	21425
	1 (RB_Pos:0)	23.28	23.04	23.17	22.28	22.44	22.23
	1 (RB_Pos:13)	23.06	22.70	22.79	22.07	22.20	21.96
	1 (RB_Pos:24)	23.30	23.09	23.24	22.31	22.58	22.28
	12 (RB_Pos:0)	22.06	21.87	22.00	21.21	21.17	21.17
	12 (RB_Pos:6)	22.09	21.87	21.98	21.23	21.17	21.16
	12 (RB_Pos:13)	22.19	21.96	22.15	21.25	21.29	21.23

	25 (RB_Pos:0)	22.15	21.88	22.03	21.14	21.16	21.09

8.4 Bluetooth

Mode	GFSK			π/4-DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Peak Power (dBm)	2.83	2.83	**4.92**	1.54	1.89	3.52
Mode	8-DPSK			BLE		
Channel	0	39	78	0	19	39
Frequency (MHz)	2402	2441	2480	2402	2440	2480
Peak Power (dBm)	1.55	1.89	3.59	-4.33	-3.42	-2.49

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	Head	Front/ Back	Left Edge	Right Edge	Top Edge	Bottom Edge
GSM 850	Distance to User			<5mm	<5 mm	11 mm	<5 mm	121 mm	<5mm
	Voice	33.10	2041.74	Yes	Yes	Yes	Yes	No	Yes
	Data	30.40	1096.48	Yes	Yes	Yes	Yes	No	Yes
GSM 1900	Distance to User			<5mm	<5 mm	11 mm	<5 mm	121 mm	<5mm
	Voice	30.20	1047.13	Yes	Yes	Yes	Yes	No	Yes
	Data	30.20	1047.13	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band 2	Distance to User			<5mm	<5 mm	11 mm	<5 mm	121 mm	<5mm
	RMC	23.35	216.27	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band 4	Distance to User371.54			<5mm	<5 mm	11 mm	<5 mm	121 mm	<5mm
	RMC	25.80	380.19	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band 5	Distance to User215.77			<5mm	<5 mm	11 mm	<5 mm	121 mm	<5mm
	RMC	23.15	206.54	Yes	Yes	Yes	Yes	No	Yes
LTE Band 4	Distance to User			<5mm	<5 mm	11 mm	<5 mm	121 mm	<5mm
	QPSK	23.55	226.46	Yes	Yes	Yes	Yes	No	Yes
LTE Band 7	Distance to User			<5mm	<5 mm	11 mm	<5 mm	121 mm	<5mm
	QPSK	23.50	223.87	Yes	Yes	Yes	Yes	No	Yes
Bluetooth	Distance to User			<5mm	<5mm	60mm	<5mm	<5mm	108 mm
	Bluetooth BR/EDR	5.05	3.20	No	No	No	No	No	No
	Bluetooth BLE	-2.40	0.58	No	No	No	No	No	No

Note:

1. Maximum power is the source-based time-average power and represents the maximum RF output power among production units.
2. 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.
3. 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
4. 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:
   [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·[√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR
   a. f(GHz) is the RF channel transmit frequency in GHz
   b. Power and distance are rounded to the nearest mW and mm before calculation
   c. The result is rounded to one decimal place for comparison
   d. For < 50 mm distance, we just calculate mW of the exclusion threshold value (3.0) to do compare.
   This formula is [3.0] / [√f(GHz)] ·[(min. test separation distance, mm)] = exclusion threshold of mW.
5. 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:
   a. [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·(f(MHz)/150)] mW, at 100 MHz to 1500 MHz

b. [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz

6. Per KDB 941225 D01, RMC 12.2kbps setting is used to evaluate SAR. If HSDPA /HSUPA /DC-HSDPA output power is < 0.25dB higher than RMC12.2Kbps, or reported SAR with RMC 12.2kbps setting is ≤ 1.2W/kg, HSDPA/HSUPA/DC-HSDPA SAR evaluation can be excluded.

9.2 10g Extremity Exposure Consider

According with FCC KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, unless it is confirmed otherwise through KDB inquiries, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance;
The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

Conclusion:
The EUT hotspot mode 1-g reported SAR is 1.098 W/Kg, which is less than 1.2W/Kg, 10-g extremity SAR is not required.

10 TEST RESULTS

10.1 GSM 850

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.
Head											
Voice	Left Cheek	0	190	836.60	0.92	0.406	32.96	33.10	1.03	**0.419**	1#
	Left Tilt	0	190	836.60	-1.81	0.250	32.96	33.10	1.03	0.258	/
	Right Cheek	0	190	836.60	-1.81	0.392	32.96	33.10	1.03	0.405	/
	Right Tilt	0	190	836.60	-2.03	0.241	32.96	33.10	1.03	0.249	/
Body-worn Accessory											
Voice	Front Side	10	190	836.60	-0.76	0.465	32.96	33.10	1.03	0.480	/
	Back Side	10	190	836.60	0.34	0.567	32.96	33.10	1.03	0.586	/
Hotspot											
GPRS 4 slots	Front Side	10	128	824.2	-2.11	0.280	30.31	30.40	1.02	0.286	/
	Back Side	10	128	824.2	-1.49	0.771	30.31	30.40	1.02	**0.787**	2#
	Left Edge	10	128	824.2	3.54	0.442	30.31	30.40	1.02	0.451	/
	Right Edge	10	128	824.2	4.01	0.373	30.31	30.40	1.02	0.381	/
	Bottom Edge	10	128	824.2	3.58	0.041	30.31	30.40	1.02	0.042	/
Note: SAR is not required for EGPRS (8PSK) mode because its output power is less than that of GPRS Mode.											

10.2GSM 1900

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.
Head											
Voice	Left Cheek	0	810	1909.80	3.71	0.329	30.10	30.20	1.02	0.337	/
	Left Tilt	0	810	1909.80	2.12	0.046	30.10	30.20	1.02	0.047	/
	Right Cheek	0	810	1909.80	-2.38	0.331	30.10	30.20	1.02	**0.339**	3#
	Right Tilt	0	810	1909.80	3.29	0.046	30.10	30.20	1.02	0.047	/
Body-worn Accessory											
Voice	Front Side	10	810	1909.80	-2.86	0.448	30.10	30.20	1.02	0.458	/
	Back Side	10	810	1909.80	-0.32	0.577	30.10	30.20	1.02	0.590	/
Hotspot											
GPRS 2 slots	Front Side	10	810	1909.80	-1.69	0.631	30.11	30.20	1.02	0.644	/
	Back Side	10	810	1909.80	-2.35	0.813	30.11	30.20	1.02	0.830	/
		10	512	1850.20	-1.63	0.904	30.03	30.20	1.04	0.940	/
		10	661	1880.00	-1.97	0.914	30.08	30.20	1.03	**0.940**	4#
	Left Edge	10	810	1909.80	-2.06	0.150	30.11	30.20	1.02	0.153	/
	Right Edge	10	810	1909.80	1.13	0.141	30.11	30.20	1.02	0.144	/
	Bottom Edge	10	810	1909.80	-1.76	0.755	30.11	30.20	1.02	0.771	/
Note: SAR is not required for EGPRS (8PSK) mode because its output power is less than that of GPRS Mode.											

10.3WCDMA Band 2

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.
Head											
RMC	Left Cheek	0	9400	1880.00	-2.82	0.253	23.23	23.35	1.03	0.260	/
	Left Tilt	0	9400	1880.00	-0.98	0.127	23.23	23.35	1.03	0.131	/
	Right Cheek	0	9400	1880.00	-3.42	0.271	23.23	23.35	1.03	**0.279**	5#
	Right Tilt	0	9400	1880.00	-1.25	0.136	23.23	23.35	1.03	0.140	/
Body-worn Accessory & Hotspot											
RMC	Front Side	10	9400	1880.00	-1.67	0.628	23.23	23.35	1.03	0.646	/
	Back Side	10	9400	1880.00	-0.31	0.811	23.23	23.35	1.03	0.834	/
		10	9262	1852.40	-0.19	0.831	23.15	23.35	1.05	0.870	/
		10	9538	1907.60	-0.37	0.835	23.17	23.35	1.04	0.870	/
	Left Edge	10	9400	1880.00	-1.36	0.154	23.23	23.35	1.03	0.158	/
	Right Edge	10	9400	1880.00	-2.11	0.140	23.23	23.35	1.03	0.144	/
	Bottom Edge	10	9400	1880.00	-0.32	0.803	23.23	23.35	1.03	0.825	/
		10	9262	1852.40	0.45	0.799	23.15	23.35	1.05	0.837	/
		10	9538	1907.60	-0.32	0.859	23.17	23.35	1.04	**0.895**	6#

10.4WCDMA Band 4

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.
Head											
RMC	Left Cheek	0	1513	1752.60	-1.88	0.199	25.70	25.80	1.02	0.204	/
	Left Tilt	0	1513	1752.60	0.16	0.090	25.70	25.80	1.02	0.092	/
	Right Cheek	0	1513	1752.60	0.77	0.277	25.70	25.80	1.02	**0.283**	7#
	Right Tilt	0	1513	1752.60	1.33	0.126	25.70	25.80	1.02	0.129	/
Body-worn Accessory & Hotspot											
RMC	Front Side	10	1513	1752.60	0.69	0.412	25.70	25.80	1.02	0.422	/
	Back Side	10	1513	1752.60	0.31	0.635	25.70	25.80	1.02	0.650	/
	Left Edge	10	1513	1752.60	-3.12	0.143	25.70	25.80	1.02	0.146	/
	Right Edge	10	1513	1752.60	-2.08	0.090	25.70	25.80	1.02	0.092	/
	Bottom Edge	10	1513	1752.60	-1.89	0.759	25.70	25.80	1.02	**0.777**	8#

10.5WCDMA Band 5

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.
Head											
RMC	Left Cheek	0	4233	846.60	1.30	0.383	23.06	23.15	1.02	**0.391**	9#
	Left Tilt	0	4233	846.60	1.02	0.271	23.06	23.15	1.02	0.277	/
	Right Cheek	0	4233	846.60	0.04	0.379	23.06	23.15	1.02	0.387	/
	Right Tilt	0	4233	846.60	2.11	0.268	23.06	23.15	1.02	0.274	/
Body-worn Accessory & Hotspot											
RMC	Front Side	10	4233	846.60	-0.02	0.398	23.06	23.15	1.02	0.406	/
	Back Side	10	4233	846.60	-0.09	0.492	23.06	23.15	1.02	**0.502**	10#
	Left Edge	10	4233	846.60	-1.06	0.199	23.06	23.15	1.02	0.203	/
	Right Edge	10	4233	846.60	-2.26	0.214	23.06	23.15	1.02	0.218	/
	Bottom Edge	10	4233	846.60	-1.18	0.077	23.06	23.15	1.02	0.079	/

10.6LTE Band 4 (20MHz Bandwidth)

Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	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.
Head													
QPSK	Left Cheek	0	20300	1745	1	Low	1.47	0.244	23.44	23.55	1.03	0.250	/
			20300	1745	50	Low	1.98	0.203	22.43	22.55	1.03	0.209	/
	Left Tilt	0	20300	1745	1	Low	3.05	0.111	23.44	23.55	1.03	0.114	/
			20300	1745	50	Low	2.46	0.093	22.43	22.55	1.03	0.096	/
	Right Cheek	0	20300	1745	1	Low	-2.59	0.329	23.44	23.55	1.03	**0.337**	11#
			20300	1745	50	Low	1.46	0.274	22.43	22.55	1.03	0.282	/
	Right Tilt	0	20300	1745	1	Low	-2.04	0.149	23.44	23.55	1.03	0.153	/
			20300	1745	50	Low	-2.88	0.124	22.43	22.55	1.03	0.127	/
Body-worn Accessory & Hotspot													
QPSK	Front Side	10	20300	1745	1	Low	-0.88	0.624	23.44	23.55	1.03	0.640	/
			20300	1745	50	Low	-1.36	0.520	22.43	22.55	1.03	0.535	/
	Back Side	10	20300	1745	1	Low	-0.94	0.791	23.44	23.55	1.03	0.811	/
			20050	1720	1	Mid	-1.41	0.759	23.36	23.55	1.04	0.793	/
			20175	1732.5	1	Low	-1.00	0.776	23.43	23.55	1.03	0.798	/
			20300	1745	50	Low	0.89	0.657	22.43	22.55	1.03	0.675	/
			20300	1745	100	Low	-0.44	0.551	22.35	22.45	1.02	0.564	/
	Left Edge	10	20300	1745	1	Low	0.58	0.150	23.44	23.55	1.03	0.154	/
			20300	1745	50	Low	-0.67	0.130	22.43	22.55	1.03	0.134	/
	Right Edge	10	20300	1745	1	Low	1.02	0.100	23.44	23.55	1.03	0.103	/
			20300	1745	50	Low	1.16	0.080	22.43	22.55	1.03	0.082	/
	Bottom Edge	10	20300	1745	1	Low	-0.80	0.968	23.44	23.55	1.03	**0.993**	12#
			20050	1720	1	Mid	-0.48	0.932	23.36	23.55	1.04	0.974	/
			20175	1732.5	1	Low	-0.66	0.952	23.43	23.55	1.03	0.979	/
			20300	1745	50	Low	-0.69	0.807	22.43	22.55	1.03	0.830	/
			20300	1745	100	Low	-0.79	0.683	22.35	22.45	1.02	0.699	/

10.7LTE Band 7 (20MHz Bandwidth)

Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	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.
Head													
QPSK	Left Cheek	0	21350	2560	1	Low	-0.31	0.430	23.38	23.50	1.03	**0.442**	13#
			21350	2560	50	Low	-2.64	0.338	22.23	22.35	1.03	0.347	/
	Left Tilt	0	21350	2560	1	Low	-3.23	0.196	23.38	23.50	1.03	0.201	/
			21350	2560	50	Low	-2.46	0.150	22.23	22.35	1.03	0.154	/
	Right Cheek	0	21350	2560	1	Low	1.93	0.254	23.38	23.50	1.03	0.261	/
			21350	2560	50	Low	1.44	0.200	22.23	22.35	1.03	0.206	/
	Right Tilt	0	21350	2560	1	Low	-1.64	0.116	23.38	23.50	1.03	0.119	/
			21350	2560	50	Low	-0.86	0.091	22.23	22.35	1.03	0.094	/
Body-worn Accessory & Hotspot													
QPSK	Front Side	10	21350	2560	1	Low	0.08	0.730	23.38	23.50	1.03	0.750	/
			21350	2560	50	Low	1.21	0.560	22.23	22.35	1.03	0.576	/
	Back Side	10	21350	2560	1	Low	0.06	0.860	23.38	23.50	1.03	0.884	/
			20850	2510	1	Mid	-0.03	1.012	23.18	23.50	1.08	1.089	/
			21100	2535	1	Low	1.41	0.864	22.77	23.50	1.18	1.022	/
			21350	2560	50	Low	-3.46	0.659	22.23	22.35	1.03	0.677	/
			21350	2560	100	Low	-4.08	0.530	22.20	22.30	1.02	0.542	/
	Left Edge	10	21350	2560	1	Low	-3.78	0.061	23.38	23.50	1.03	0.063	/
			21350	2560	50	Low	1.65	0.047	22.23	22.35	1.03	0.048	/
	Right Edge	10	21350	2560	1	Low	1.77	0.233	23.38	23.50	1.03	0.240	/
			21350	2560	50	Low	-0.43	0.178	22.23	22.35	1.03	0.183	/
	Bottom Edge	10	21350	2560	1	Low	-0.56	0.866	23.38	23.50	1.03	0.890	/
			20850	2510	1	Mid	-0.79	1.020	23.18	23.50	1.08	**1.098**	14#
			21100	2535	1	Low	-1.02	0.870	22.77	23.50	1.18	1.029	/
			21350	2560	50	Low	-1.16	0.667	22.23	22.35	1.03	0.686	/
			21350	2560	100	Low	-2.08	0.509	22.20	22.30	1.02	0.521	/

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 Radio
1750	LTE Band2	Body	Bottom Edge	0.968	Yes	0.953	1.02
1900	GSM1900	Body	Back Side	0.914	Yes	0.909	1.01
	WCDMA Band2	Body	Bottom Edge	0.859	Yes	0.847	1.01
2600	LTE Band2	Body	Bottom Edge	1.020	Yes	1.001	1.02

12 SIMULTANEOUS TRANSMISSION

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR 1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR 1g 1.6 W/kg), SAR test exclusion is determined by the SAR to Peak Location Ratio (SPLSR).

12.1 Simultaneous Transmission Mode Consider

NO.	Mode	2.4G WLAN & 2.4G Bluetooth		
		Head	Body-worn	Hotspot
1	GSM (Voice)	+ 2.4G WLAN	+ 2.4G WLAN	--
		--	+ Bluetooth	--
2	GSM (Data)	--	--	+ 2.4G WLAN
3	WCDMA RMC	+ 2.4G WLAN	+ 2.4G WLAN	+ 2.4G WLAN
		--	+ Bluetooth	--
4	LTE	+ 2.4G WLAN	+ 2.4G WLAN	+ 2.4G WLAN
		--	+ Bluetooth	--

Note:

1. 2G&3G&4G share the same antenna and can't transmit simultaneously.
2. The Bluetooth and 2.4G WLAN share the same antenna, can't transmitting together.
3. 2.4G WLAN supports hotspot mode.
4. The 2.4G WLAN test data reference from original test report: BL-SZ1650193-701 (issued by Shenzhen BALUN Technology Co., Ltd. On Jun. 16, 2016) 10.2 WIFI 2.4GHz.

12.2 Estimated SAR Calculation

According to KDB 447498 D01 when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR was estimated according to following formula to result in substantially conservative SAR values of <= 0.4 W/kg to determine simultaneous transmission SAR test exclusion.

$$\text{Estimated SAR} = \frac{Max.Tune\ Up\ Power(mw)}{Min\ Test\ Separation\ Distance} * \frac{\sqrt{f_{GHz}}}{x}$$ (where x = 7.5 for 1-g SAR)

If the minimum test separation distance is < 5 mm, a distance of 5 mm is used for estimated SAR calculation. When the test separation distance is > 50 mm, the 0.4 W/kg is used for SAR-1g.

Band	Mode	Position	Antenna To user (mm)	SAR Testing	Max. Tune-up Power (dBm)	Max. Tune-up Power (mW)	Frequency (GHz)	Calculation Distance/Gap (mm)	Estimated SAR (W/kg)
Bluetooth	GFSK	Front Side	10	NO	5.05	3.20	2.480	10	0.067
		Back Side	10	NO	5.05	3.20	2.480	10	0.067
		Right Edge	10	NO	5.05	3.20	2.480	10	0.067
		Top Edge	10	NO	5.05	3.20	2.480	10	0.067

12.3 Sum SAR of Simultaneous Transmission

12.3.1 Sum Head SAR of Simultaneous Transmission

Simultaneous Mode	Mode	Max. 1g SAR (W/kg)	1g Sum SAR (W/kg)	SPLSR (Yes/No)
GSM Voice + 2.4G WLAN	GSM Voice	0.419	0.739	No
	2.4G WLAN	0.320		
WCDMA RMC +2.4G WLAN	WCDMA RMC	0.391	0.711	No
	2.4G WLAN	0.320		
LTE QPSK + 2.4G WLAN	LTE QPSK	0.442	**0.762**	No
	2.4G WLAN	0.320		

12.3.2 Sum Body-worn SAR of Simultaneous Transmission

Simultaneous Mode	Mode	Max. 1g SAR (W/kg)	1g Sum SAR (W/kg)	SPLSR (Yes/No)
GSM Voice + 2.4G WLAN	GSM Voice	0.590	0.905	No
	2.4G WLAN	0.315		
GSM Voice + Bluetooth	GSM Voice	0.590	0.657	No
	Bluetooth	0.067		
WCDMA RMC +2.4G WLAN	WCDMA RMC	0.870	1.185	No
	2.4G WLAN	0.315		
WCDMA RMC + Bluetooth	WCDMA RMC	0.870	0.937	No
	Bluetooth	0.067		
LTE QPSK + 2.4G WLAN	LTE QPSK	1.089	**1.404**	No
	2.4G WLAN	0.315		
LTE QPSK + Bluetooth	LTE QPSK	1.089	1.156	No
	Bluetooth	0.067		

12.3.3 Sum Hotspot mode SAR of Simultaneous Transmission

Simultaneous Mode	Mode	Max. 1g SAR (W/kg)	1g Sum SAR (W/kg)	SPLSR (Yes/No)
GSM DATA + 2.4G WLAN	GSM DATA	0.940	1.294	No
	2.4G WLAN	0.354		
GSM DATA + Bluetooth	GSM DATA	0.940	1.007	No
	Bluetooth	0.067		
WCDMA RMC +2.4G WLAN	WCDMA RMC	0.895	1.249	No
	2.4G WLAN	0.354		
WCDMA RMC + Bluetooth	WCDMA RMC	0.895	0.962	No
	Bluetooth	0.067		
LTE QPSK + 2.4G WLAN	LTE QPSK	1.098	**1.452**	No
	2.4G WLAN	0.354		
LTE QPSK + Bluetooth	LTE QPSK	1.098	1.165	No
	Bluetooth	0.067		

13 TEST EQUIPMENTS LIST

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
PC	Dell	N/A	N/A	N/A	N/A
835MHz Dipole	SATIMO	SID 835	S/N 25/13 DIP 0G835-246	2015/03/16	2018/03/15
1800MHz Dipole	SATIMO	SID 1900	S/N 25/13 DIP 1G800-248	2015/03/16	2018/03/15
1900MHz Dipole	SATIMO	SID 1900	S/N 25/13 DIP 1G900-249	2015/03/16	2018/03/15
2600MHz Dipole	SATIMO	SID 2600	SN 25/13 DIP 2G600-254	2015/03/16	2018/03/15
E-Field Probe	MVG	SSE2	S/N 08/16 EPGO 295	2017/03/22	2018/03/21
Antenna	SATIMO	ANTA3	SN 17/13 ZNTA45	N/A	N/A
Phantom1	SATIMO	SAM	SN 30/13 SAM103	N/A	N/A
Phantom2	SATIMO	SAM	SN 30/13 SAM104	N/A	N/A
Dielectric Probe Kit	SATIMO	SCLMP	SN 25/13 OCPG56	2016/07/13	2017/07/12
MultiMeter	Keithley	MultiMeter 2000	4024022	2016/07/13	2017/07/12
Signal Generator	R&S	SMF100A	1167.0000k02/104260	2016/07/13	2017/07/12
Power Meter	Agilent	E4419B	GB40201833	2016/07/13	2017/07/12
Power Sensor	R&S	NRP-Z21	103971	2016/07/13	2017/07/12
Power Amplifier	SATIMO	6552B	22374	N/A	N/A
Wireless Communication Test Set	Agilent	8960-E5515C	MY50260493	2016/07/13	2017/07/12
Wireless Communication Test Set	R&S	CMW 500	138884	2016/07/13	2017/07/12
Network Analyzer	R&S	ZVL-6	101380	2016/07/13	2017/07/12
Attenuator	COM-MW	ZA-S1-31	1305003187	N/A	N/A
Directional coupler	AA-MCS	AAMCS-UDC	000272	N/A	N/A

Note: Per KDB 865664 Dipole SAR Validation Verification, BALUN 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 in within 20% 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. (℃)	Meas. Conductivity (σ) (S/m)	Meas. Permittivity (ε)	Target Conductivity (σ) (S/m)	Target Permittivity (ε)	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2017.06.08	Head	835	21.4	0.87	41.93	0.90	41.50	-3.33	1.04
2017.06.08	Body	835	21.4	0.95	54.54	0.97	55.20	-2.06	-1.20
2017.06.09	Head	1800	21.5	1.41	41.56	1.40	40.00	0.71	3.90
2017.06.10	Body	1800	21.3	1.48	53.65	1.52	53.30	-2.63	0.66
2017.06.09	Head	1900	21.5	1.41	38.40	1.40	40.00	0.71	-4.00
2017.06.10	Body	1900	21.3	1.54	53.18	1.52	53.30	1.32	-0.23
2017.06.12	Head	2600	21.5	1.99	39.70	1.96	39.00	1.53	1.79
2017.06.13	Body	2600	21.1	2.15	52.51	2.16	52.50	-0.46	0.02
Note: 1. The tolerance limit of Conductivity and Permittivity is± 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).

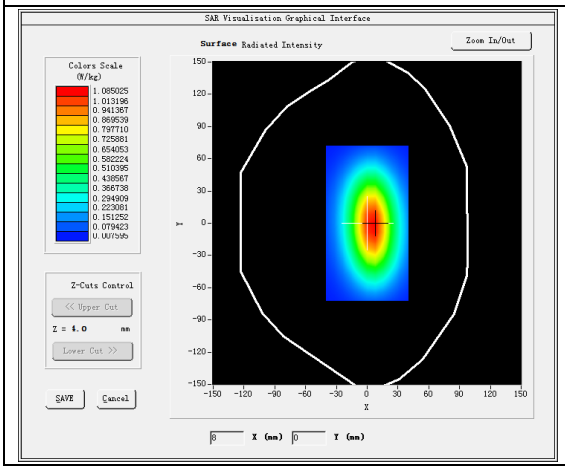
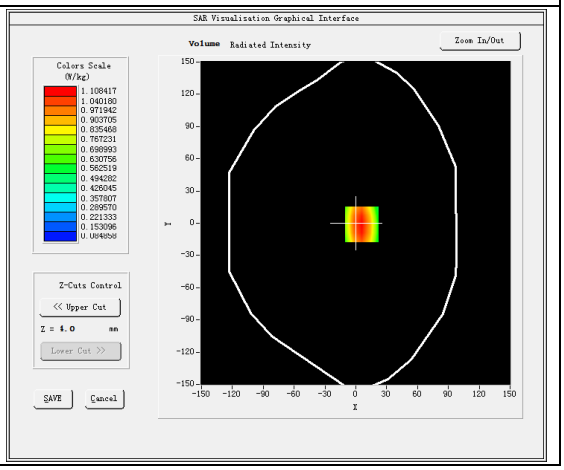
Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)	Targeted SAR(W/kg)	Tolerance (%)
2017.06.08	Head	835	100	0.967	9.67	9.81	-1.43	9.56	1.15
2017.06.08	Body	835	100	1.036	10.36	10.53	-1.61	9.56	8.37
2017.06.09	Head	1800	100	3.892	38.92	38.72	0.52	38.40	1.35
2017.06.10	Body	1800	100	4.168	41.68	40.42	3.12	38.40	8.54
2017.06.09	Head	1900	100	3.910	39.10	40.75	-4.05	39.70	-1.51
2017.06.10	Body	1900	100	4.116	41.16	42.06	-2.14	39.70	3.68
2017.06.12	Head	2600	100	5.323	53.23	57.37	-7.22	55.30	-3.74
2017.06.13	Body	2600	100	5.314	53.14	57.62	-7.78	55.30	-3.91
Note: 1. The tolerance limit of System validation is ±10%.									

System Performance Check Data(835MHz Head)

Type: Phone measurement (Complete)
E-Field Probe: SN 08/16 SSE2 EPGO295
Area scan resolution: dx=8 mm,dy=8 mm
Zoom scan resolution: dx=8 mm, dy=8 mm, dz=5 mm
Date of measurement: 2017.06.08
Measurement duration: 14 minutes 11 seconds

Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Band	835 MHz
Signal	CW
Frequency (MHz)	835.000000
Relative permittivity (real part)	41.9314211
Conductivity (S/m)	0.8713145
Power drift (%)	-0.050000
Ambient Temperature:	22.3°C
Liquid Temperature:	21.4°C
ConvF:	1.78
Crest factor:	1:1

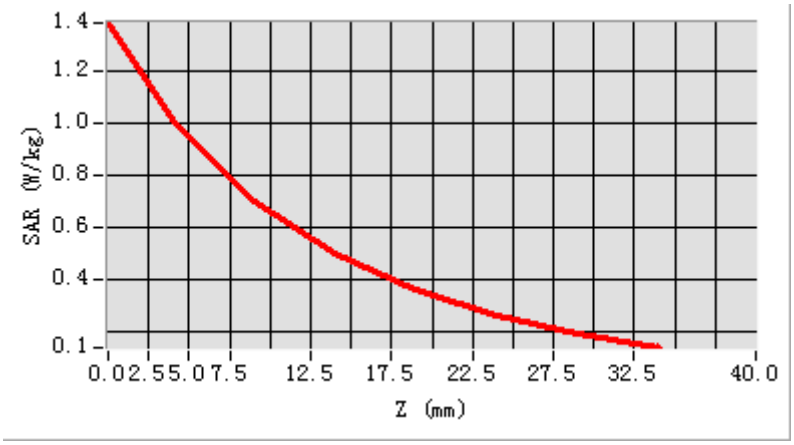
SURFACE SAR	VOLUME SAR
	

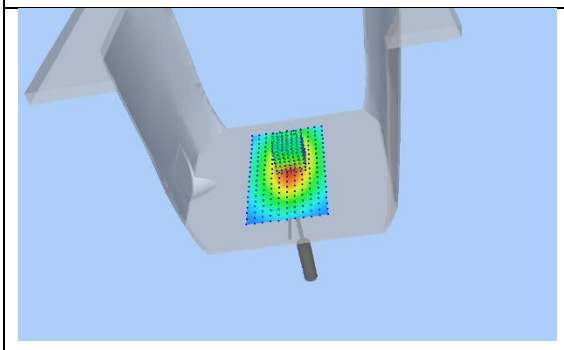
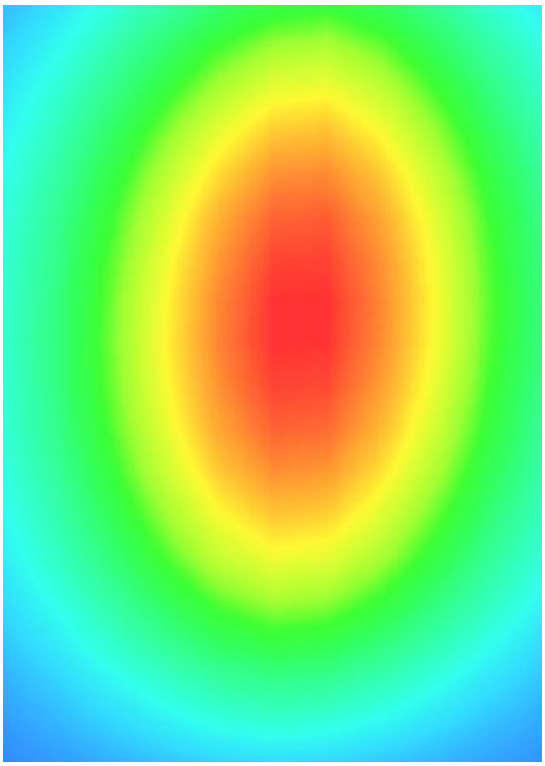
Maximum location: X=0.00, Y=0.00

SAR Peak: 1.38 W/kg

SAR 10 g (W/Kg)	0.595718
SAR 1 g (W/Kg)	0.966715

Z Axis Scan



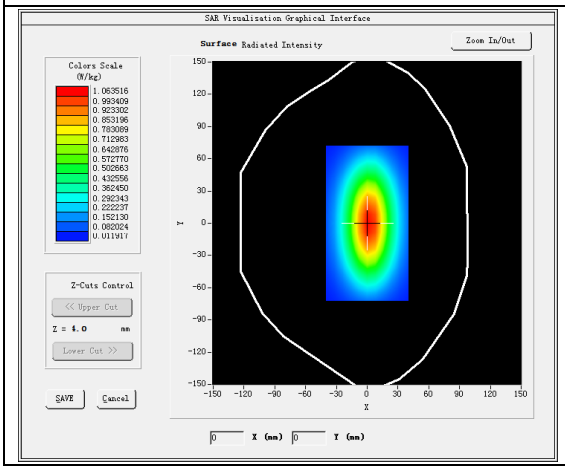
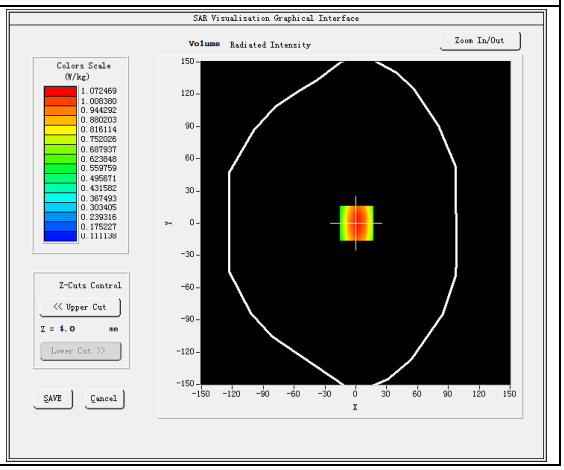
3D screen shot	Hot spot position
	

System Performance Check Data(835MHz Body)

Type: Phone measurement (Complete)
E-Field Probe: SN 08/16 SSE2 EPGO295
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2017.06.08
Measurement duration: 14 minutes 12 seconds

Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Band	835 MHz
Signal	CW
Frequency (MHz)	835.000000
Relative permittivity (real part)	54.540112
Conductivity (S/m)	0.95229
Power drift (%)	-0.050000
Ambient Temperature:	22.3°C
Liquid Temperature:	21.4°C
ConvF:	1.85
Crest factor:	1:1

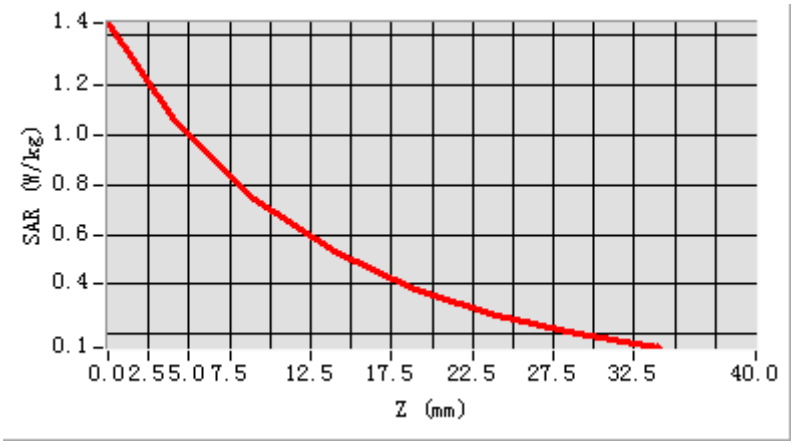
SURFACE SAR	VOLUME SAR
	

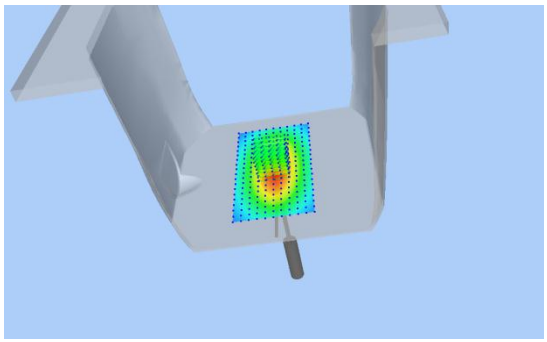
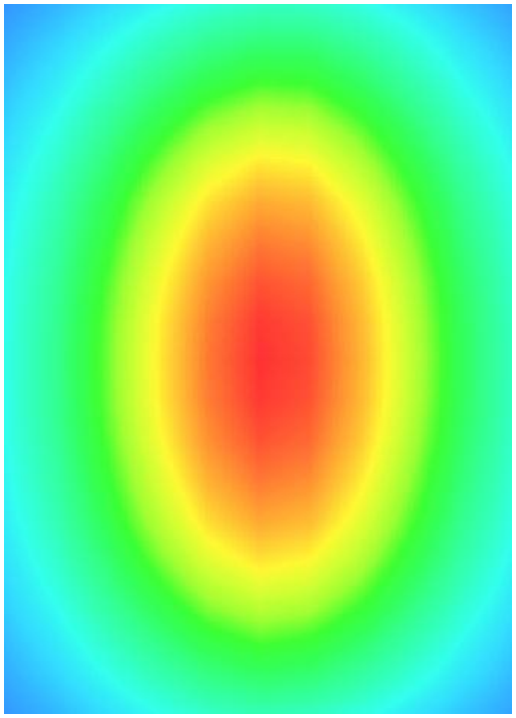
Maximum location: X=1.00, Y=0.00

SAR Peak: 1.41 W/kg

SAR 10 g (W/Kg)	0.666241
SAR 1 g (W/Kg)	1.035566

Z Axis Scan



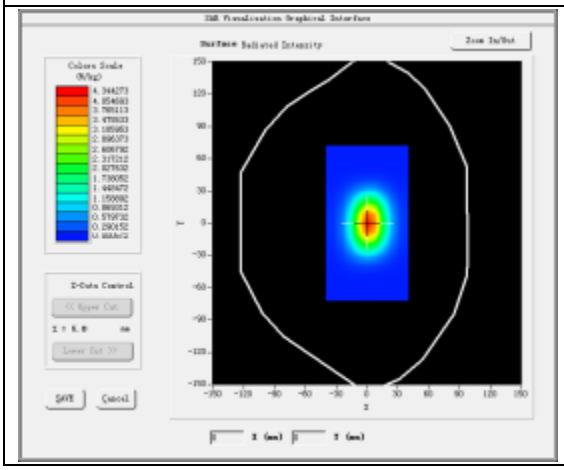
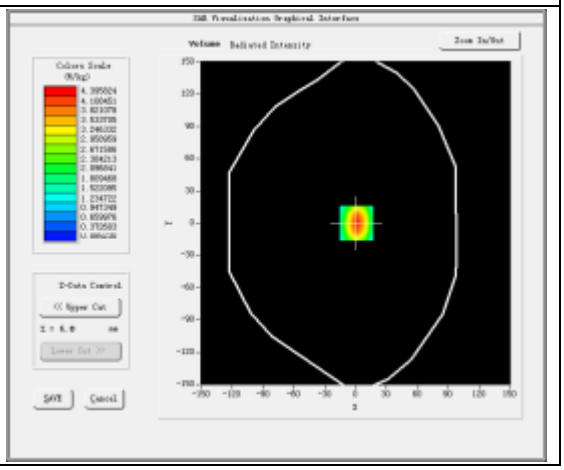
3D screen shot	Hot spot position
	

System Performance Check Data(1800MHz Head)

Type: Phone measurement (Complete)
E-Field Probe: SN 08/16 SSE2 EPGO295
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2017.06.09
Measurement duration: 13 minutes 27 seconds

Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Band	1800MHz
Signal	CW
Frequency (MHz)	1800.000000
Relative permittivity (real part)	41.562781
Conductivity (S/m)	1.413274
Power drift (%)	1.160000
Ambient Temperature:	22.3°C
Liquid Temperature:	21.5°C
ConvF:	1.88
Crest factor:	1:1

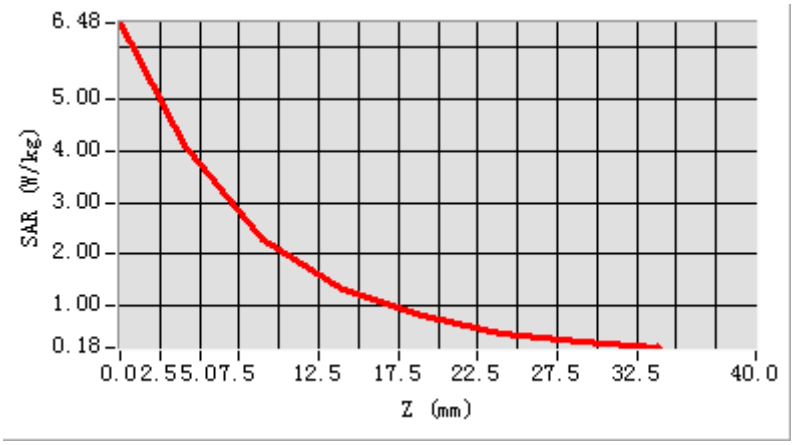
SURFACE SAR	VOLUME SAR
	

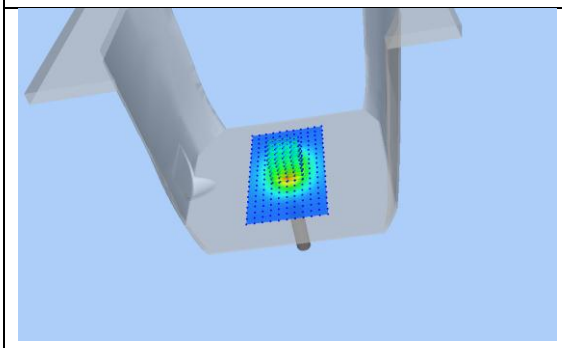
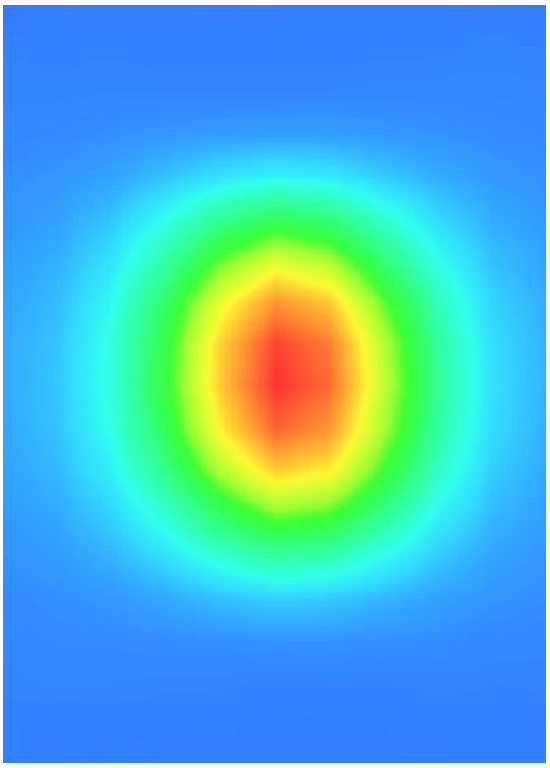
Maximum location: X=0.00, Y=0.00

SAR Peak: 6.4 W/kg

SAR 10 g (W/Kg)	2.064125
SAR 1g (W/Kg)	3.892053

Z Axis Scan



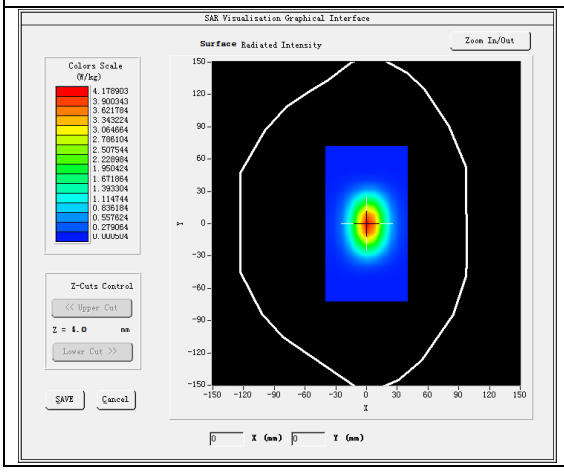
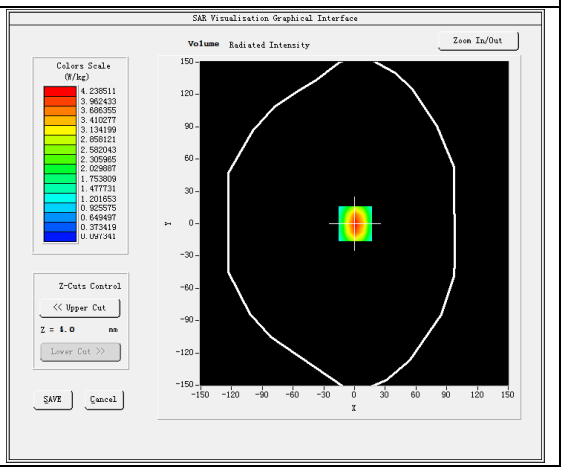
3D screen shot	Hot spot position
	

System Performance Check Data(1800MHz Body)

Type: Phone measurement (Complete)
E-Field Probe: SN 08/16 SSE2 EPGO295
Area scan resolution: dx=8 mm,dy=8 mm
Zoom scan resolution: dx=8 mm, dy=8 mm, dz=5 mm
Date of measurement: 2017.06.10
Measurement duration: 13 minutes 29 seconds

Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Band	1800MHz
Signal	CW
Frequency (MHz)	1800.000000
Relative permittivity (real part)	53.653428
Conductivity (S/m)	1.482158
Power drift (%)	-0.360000
Ambient Temperature:	22.4°C
Liquid Temperature:	21.3°C
ConvF:	1.94
Crest factor:	1:1

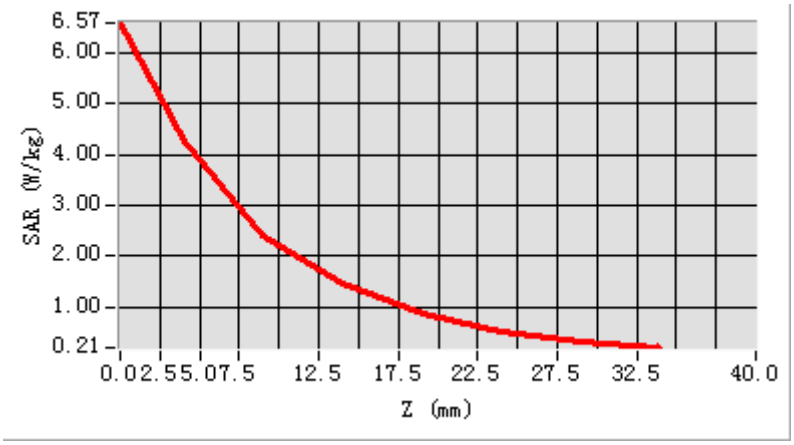
SURFACE SAR	VOLUME SAR
	

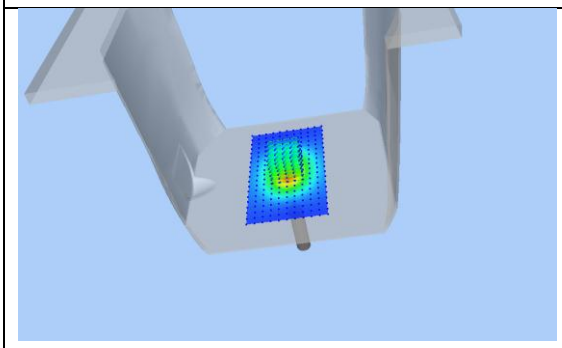
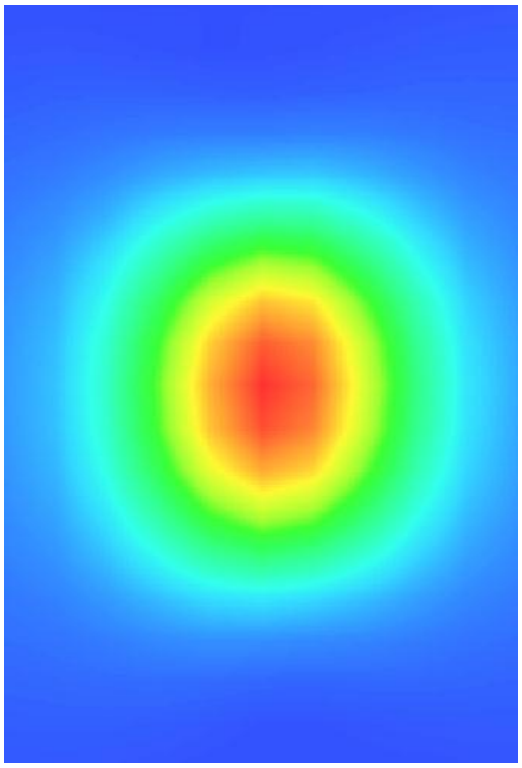
Maximum location: X=2.00, Y=-1.00

SAR Peak: 6.48 W/kg

SAR 10 g (W/Kg)	2.138654
SAR 1g (W/Kg)	4.167621

Z Axis Scan



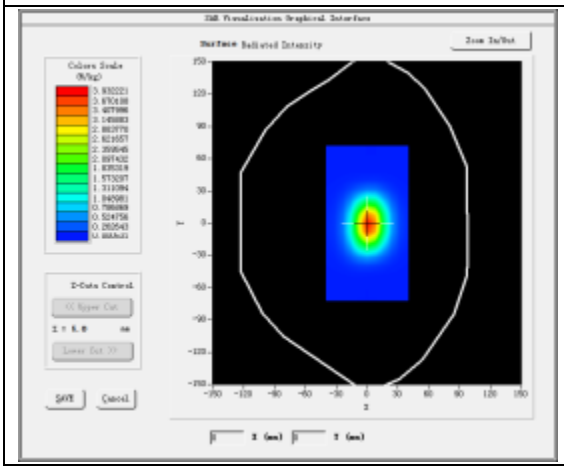
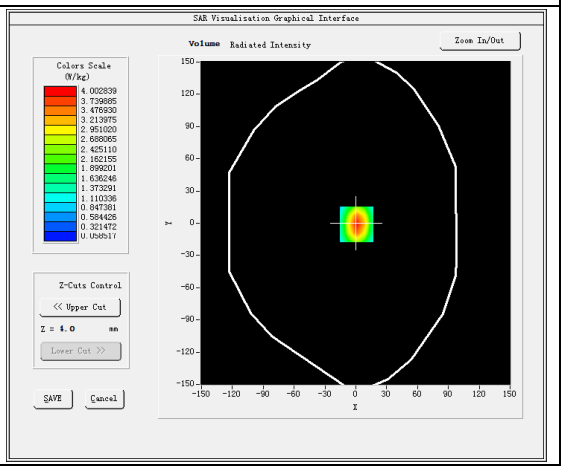
3D screen shot	Hot spot position
	

System Performance Check Data(1900MHz Head)

Type: Phone measurement (Complete)
E-Field Probe: SN 08/16 SSE2 EPGO295
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2017.06.09
Measurement duration: 13 minutes 20 seconds

Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Band	1900MHz
Signal	CW
Frequency (MHz)	1900.000000
Relative permittivity (real part)	38.402471
Conductivity (S/m)	1.413474
Power drift (%)	1.150000
Ambient Temperature:	22.3°C
Liquid Temperature:	21.5°C
ConvF:	2.19
Crest factor:	1:1

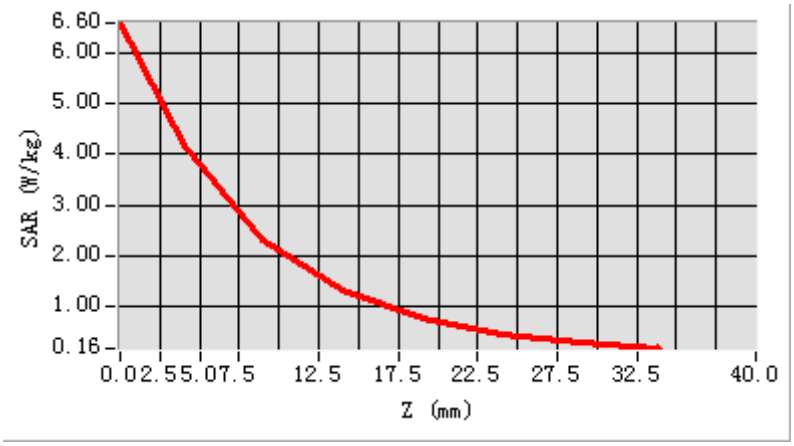
SURFACE SAR	VOLUME SAR
	

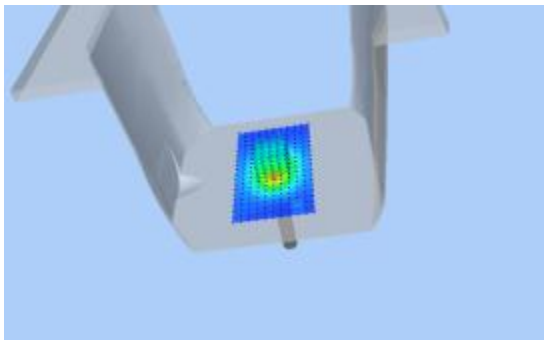
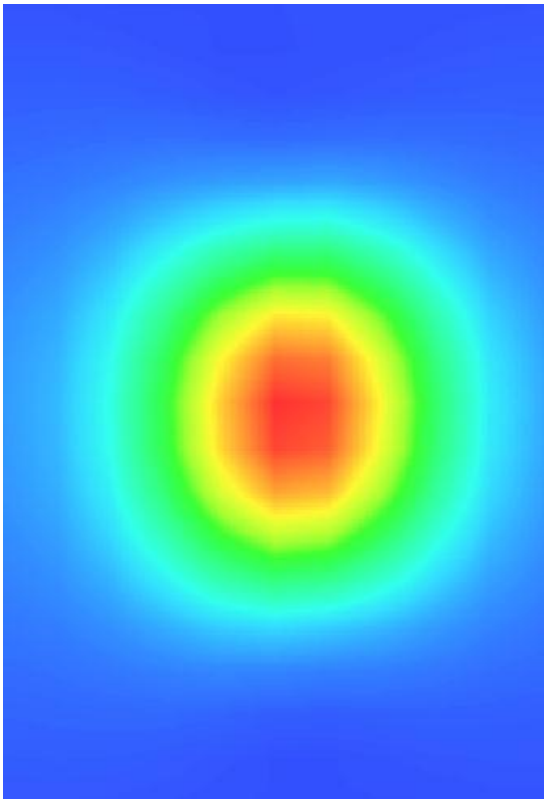
Maximum location: X=3.00, Y=1.00

SAR Peak: 6.58W/kg

SAR 10g (W/Kg)	1.974124
SAR 1g (W/Kg)	3.910074

Z Axis Scan



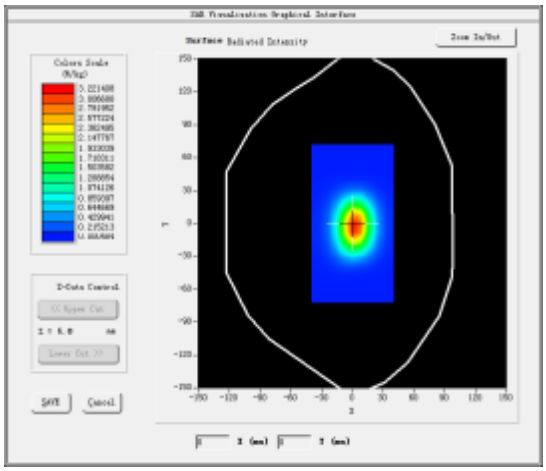
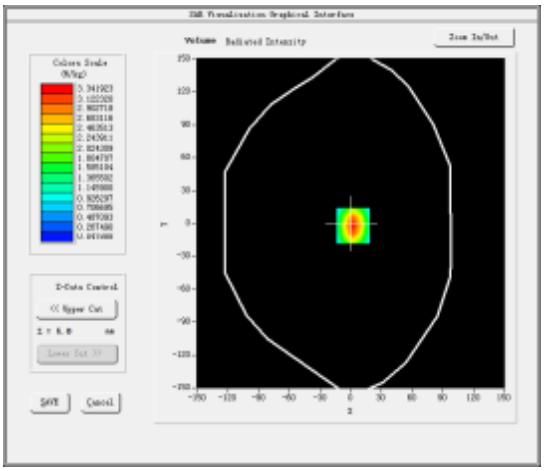
3D screen shot	Hot spot position
	

System Performance Check Data(1900MHz Body)

Type: Phone measurement (Complete)
E-Field Probe: SN 08/16 SSE2 EPGO295
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2017.06.10
Measurement duration: 13 minutes 26 seconds

Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Band	1900MHz
Signal	CW
Frequency (MHz)	1900.000000
Relative permittivity (real part)	53.1763122
Conductivity (S/m)	1.540021
Power drift (%)	0.370000
Ambient Temperature:	22.4°C
Liquid Temperature:	21.3°C
ConvF:	2.24
Crest factor:	1:1

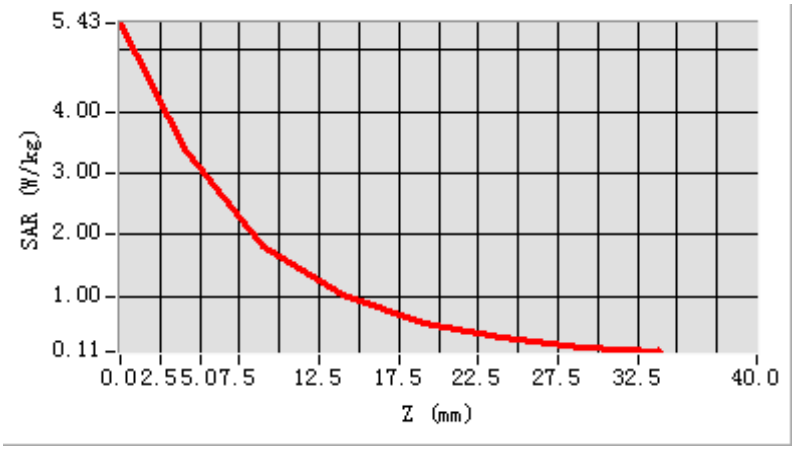
SURFACE SAR	VOLUME SAR
	

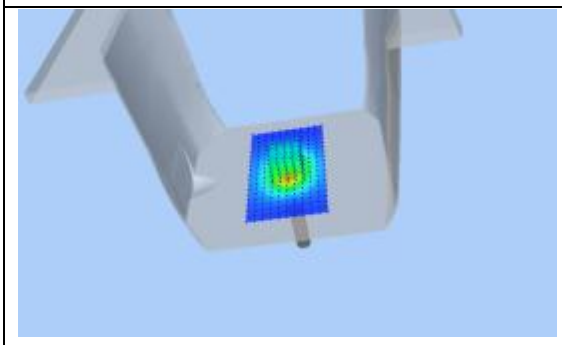
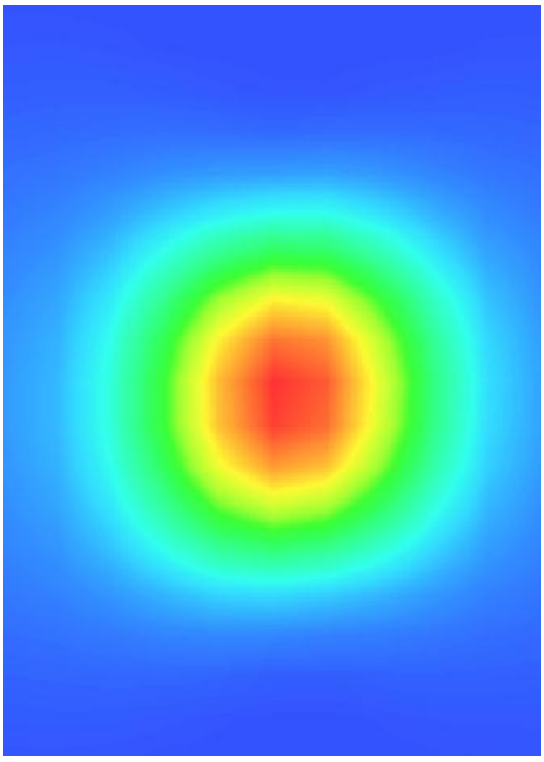
Maximum location: X=2.00, Y=-2.00

SAR Peak: 5.38W/kg

SAR 10g (W/Kg)	2.085632
SAR 1g (W/Kg)	4.115863

Z Axis Scan



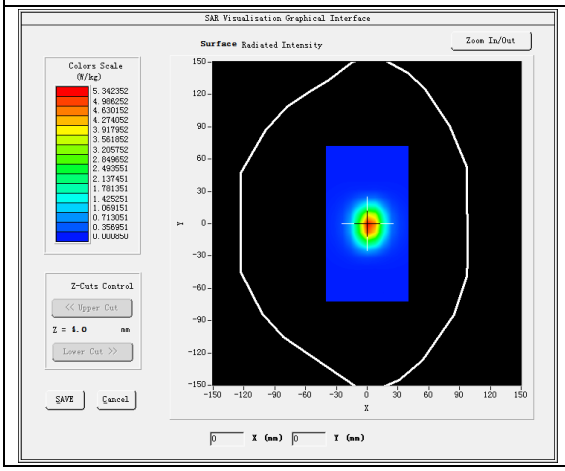
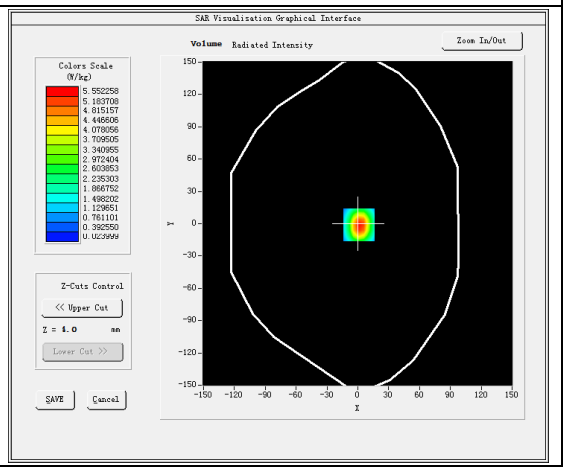
3D screen shot	Hot spot position
	

System Performance Check Data(2600MHz Head)

Type: Phone measurement (Complete)
E-Field Probe: SN 08/16 SSE2 EPGO295
Area scan resolution: dx=8 mm,dy=8 mm
Zoom scan resolution: dx=5 mm, dy=5 mm, dz=5 mm
Date of measurement: 2017.06.12
Measurement duration: 19 minutes 3 seconds

Experimental conditions.

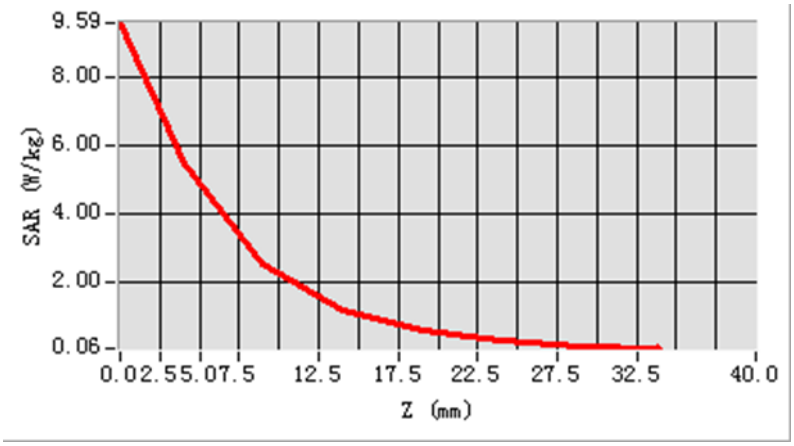
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Band	2600 MHz
Signal	CW
Frequency (MHz)	2600.000000
Relative permittivity (real part)	39.697251
Conductivity (S/m)	1.988736
Power drift (%)	-0.120000
Ambient Temperature:	22.4°C
Liquid Temperature:	21.5°C
ConvF:	2.20
Crest factor:	1:1

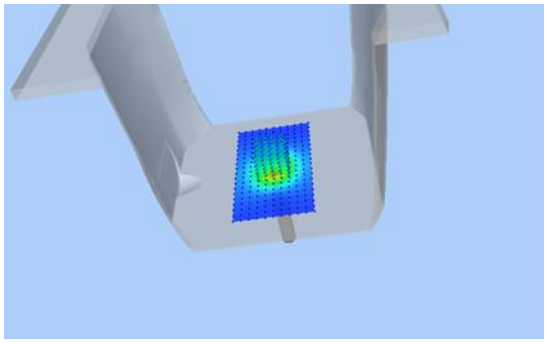
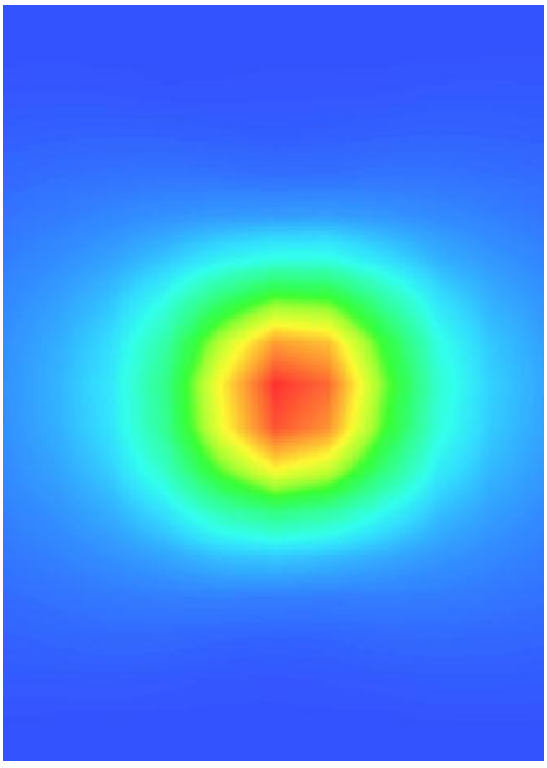
SURFACE SAR	VOLUME SAR
	

Maximum location: X=1.00, Y=1.00
SAR Peak: 9.58 W/kg

SAR 10 g (W/Kg)	2.514654
SAR 1 g (W/Kg)	5.322832

Z Axis Scan



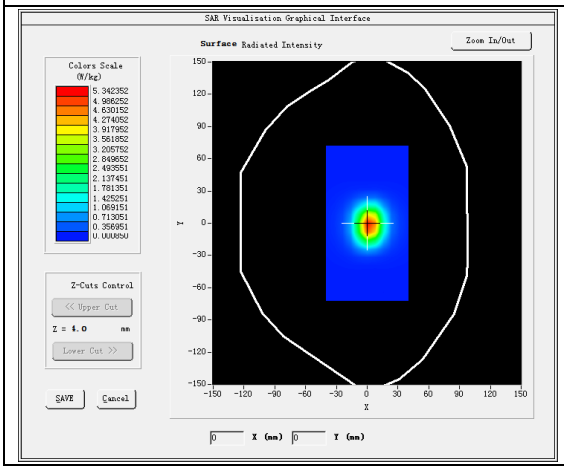
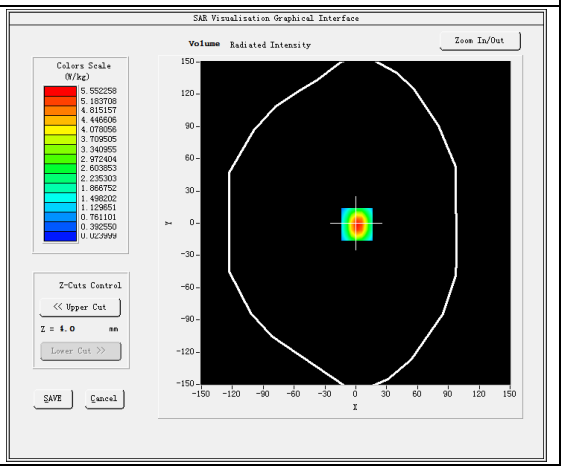
3D screen shot	Hot spot position
	

System Performance Check Data(2600MHz Body)

Type: Phone measurement (Complete)
E-Field Probe: SN 08/16 SSE2 EPGO295
Area scan resolution: dx=8 mm,dy=8 mm
Zoom scan resolution: dx=5 mm, dy=5 mm, dz=5 mm
Date of measurement: 2017.06.13
Measurement duration: 19 minutes 1 seconds

Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Band	2600 MHz
Signal	CW
Frequency (MHz)	2600.000000
Relative permittivity (real part)	52.509090
Conductivity (S/m)	2.150646
Power drift (%)	0.010000
Ambient Temperature:	22.2°C
Liquid Temperature:	21.1°C
ConvF:	2.27
Crest factor:	1:1

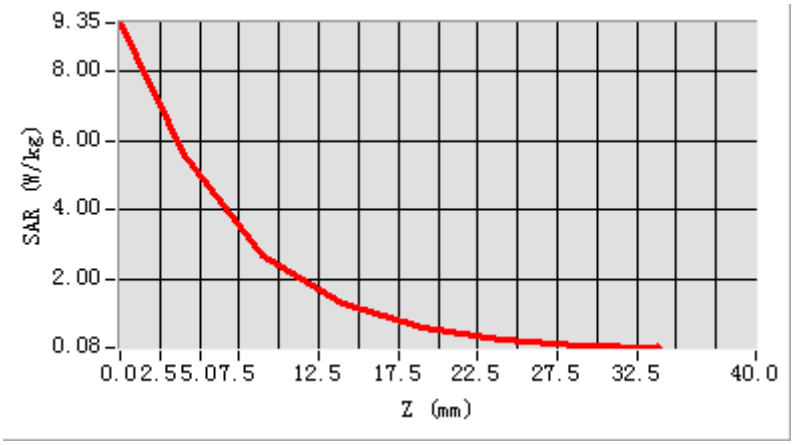
SURFACE SAR	VOLUME SAR
	

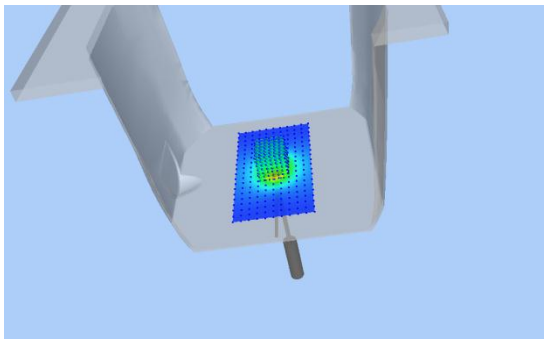
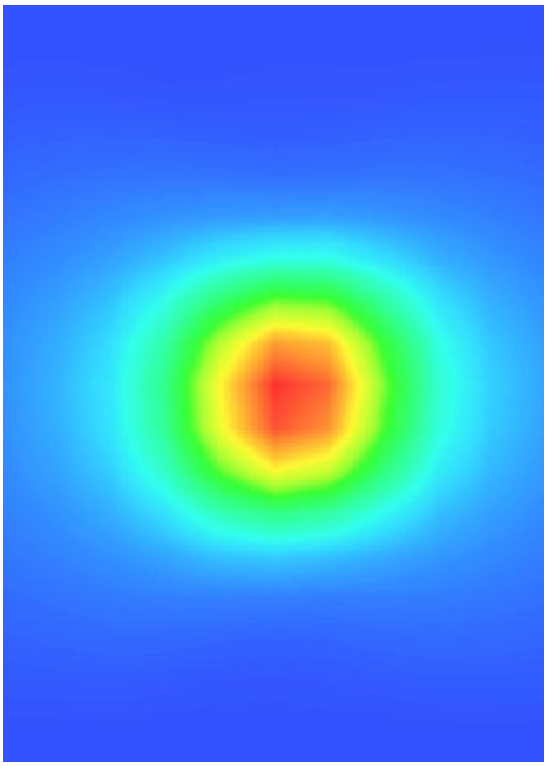
Maximum location: X=1.00, Y=-1.00

SAR Peak: 9.36 W/kg

SAR 10 g (W/Kg)	2.376986
SAR 1 g (W/Kg)	5.314332

Z Axis Scan



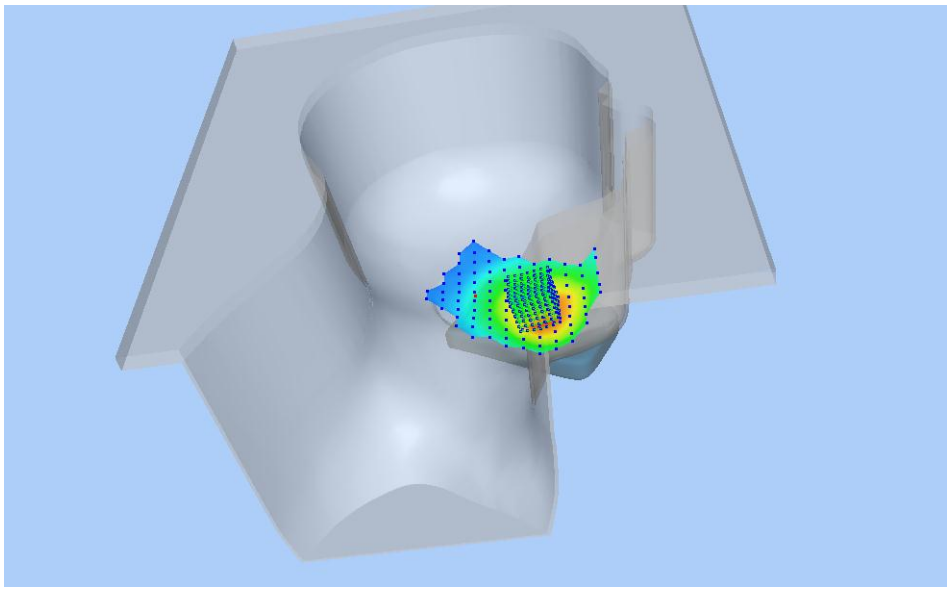
3D screen shot	Hot spot position
	

ANNEX C TEST DATA

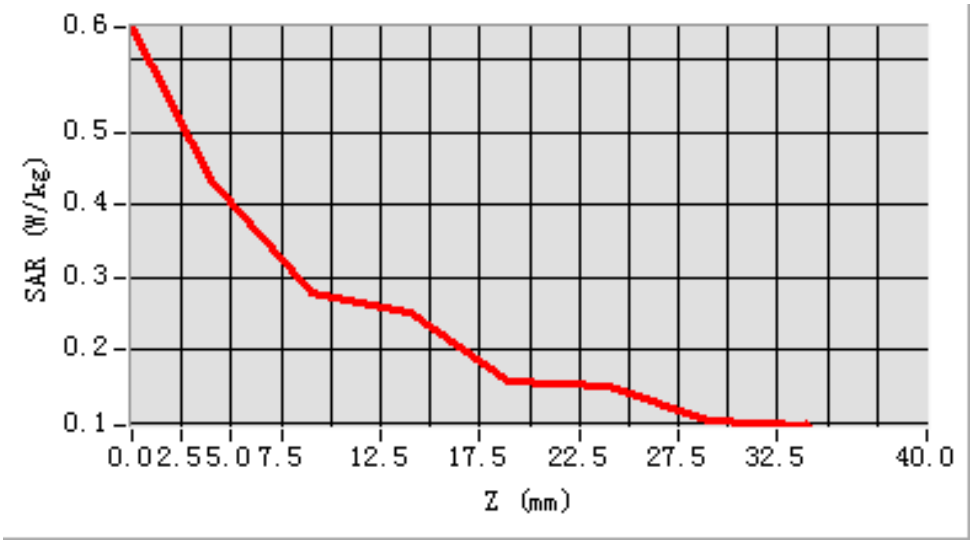
MEAS. 1 Left Head with Cheek on Middle Channel in GSM 850 mode

Test Date:	8/6/2017
Measurement duration:	12 minutes 32 seconds
Signal:	GSM, f=836.6 MHz, Duty Cycle: 1:8.3
Liquid Parameters:	Permittivity: 41.85; Conductivity: 0.88 S/m
Test condition:	Ambient Temperature: 22.3°C, Liquid Temperature: 21.4°C
Probe:	SN 08/16 SSE2 EPGO295, ConvF: 1.78
Area Scan:	sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan:	5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location:	X=-48.000000, Y=-36.000000
SAR 10g (W/Kg):	0.295893
SAR 1g (W/Kg):	0.406151
Power drift (%):	0.92

3D screen shot



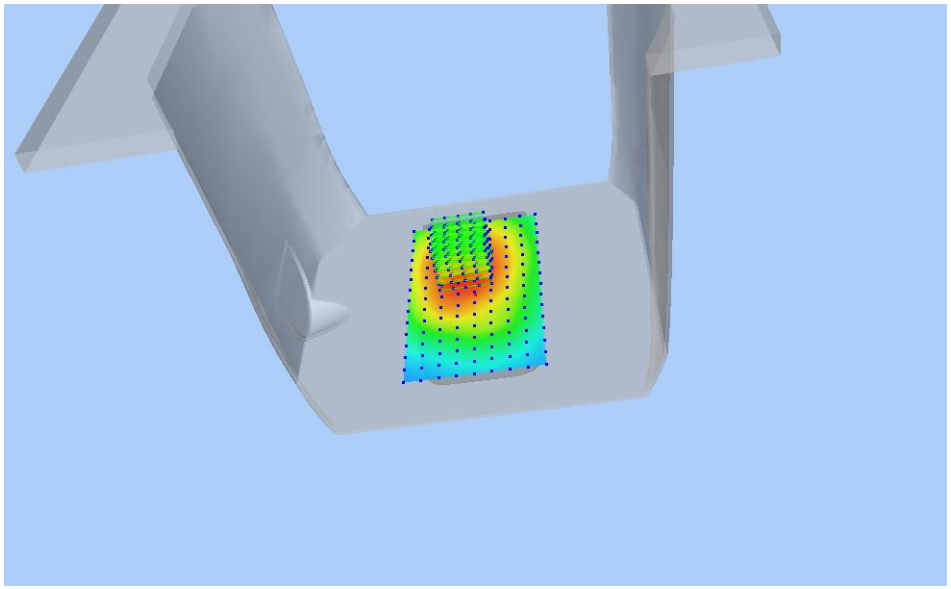
Z Axis Scan



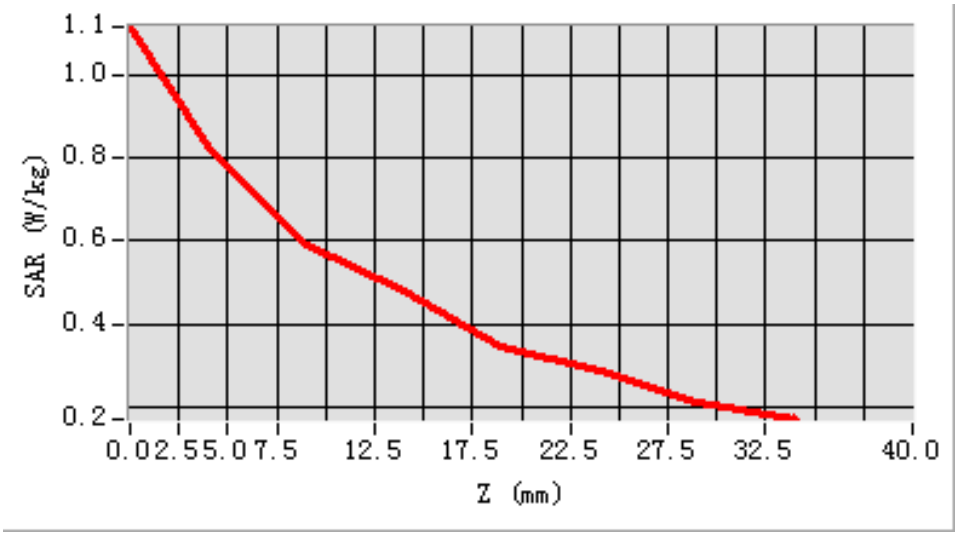
MEAS. 2 Body Plane with Back Side 10mm on Low Channel in GPRS 850 mode

Test Date:	8/6/2017
Measurement duration:	10 minutes 42 seconds
Signal:	GSM, f=824.2 MHz, Duty Cycle: 1:2.0
Liquid Parameters:	Permittivity: 54.63; Conductivity: 0.94 S/m
Test condition:	Ambient Temperature: 22.3°C, Liquid Temperature: 21.4°C
Probe:	SN 08/16 SSE2 EPGO295, ConvF: 1.85
Area Scan:	sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan:	5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location:	X=0.000000, Y=18.000000
SAR 10g (W/Kg):	0.600129
SAR 1g (W/Kg):	0.771203
Power drift (%):	-1.49

3D screen shot



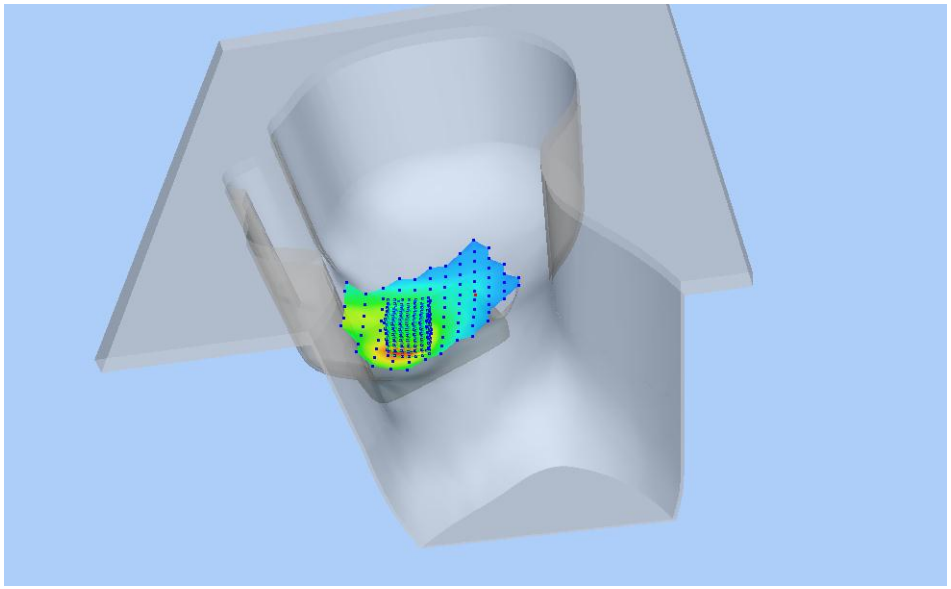
Z Axis Scan



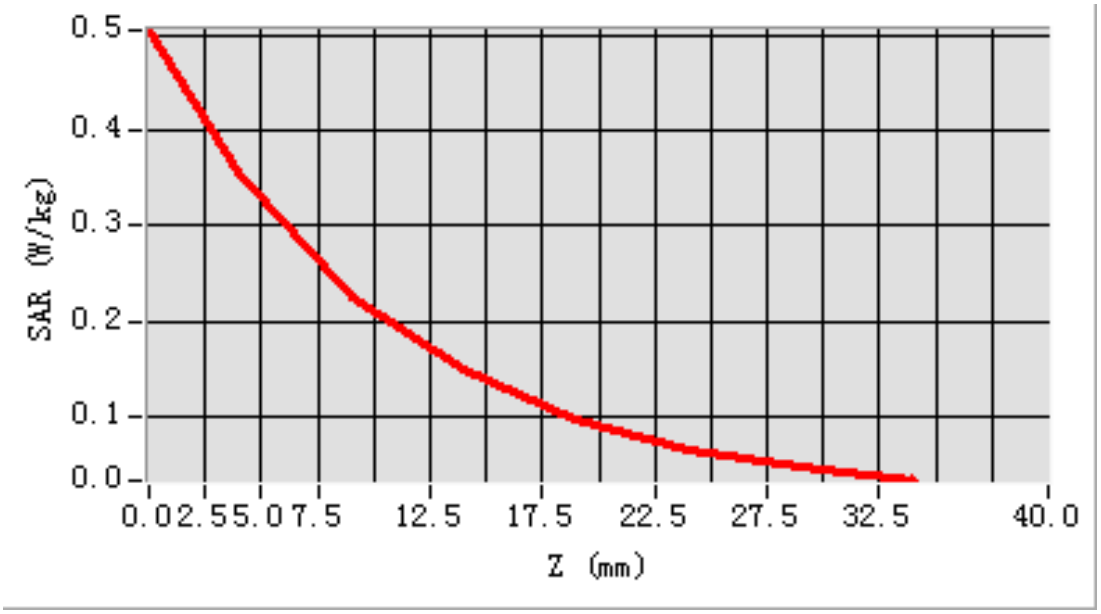
MEAS. 3 Right Head with Cheek on High Channel in GSM 1900 mode

Test Date:	9/6/2017
Measurement duration:	15 minutes 7 seconds
Signal:	GSM, f=1909.8 MHz, Duty Cycle: 1:8.3
Liquid Parameters:	Permittivity: 38.34; Conductivity: 1.42 S/m
Test condition:	Ambient Temperature: 22.3°C, Liquid Temperature: 21.5°C
Probe:	SN 08/16 SSE2 EPGO295, ConvF: 2.19
Area Scan:	sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan:	7x7x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location:	X=-48.000000, Y=-48.000000
SAR 10g (W/Kg):	0.191047
SAR 1g (W/Kg):	0.331320
Power drift (%):	-2.38

3D screen shot



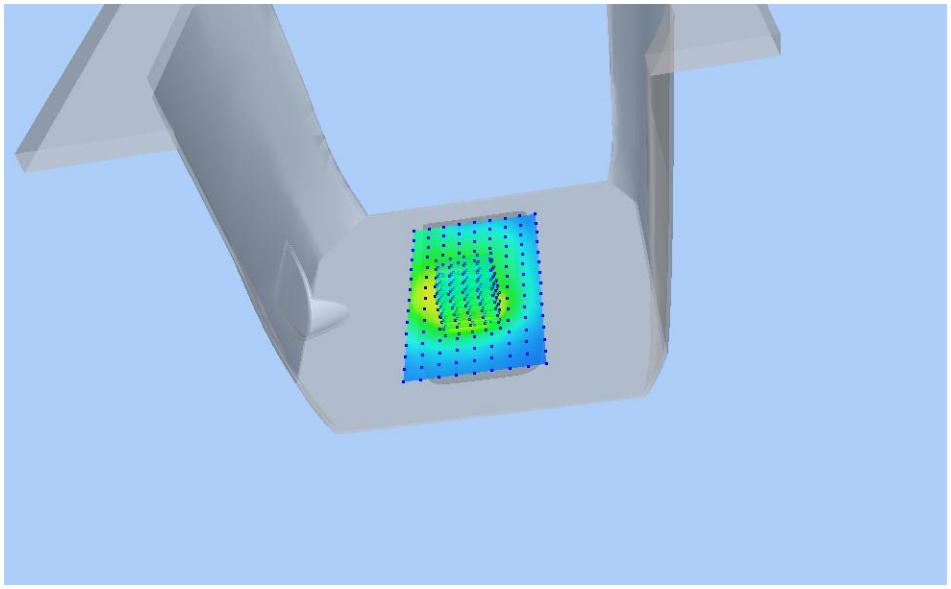
Z Axis Scan



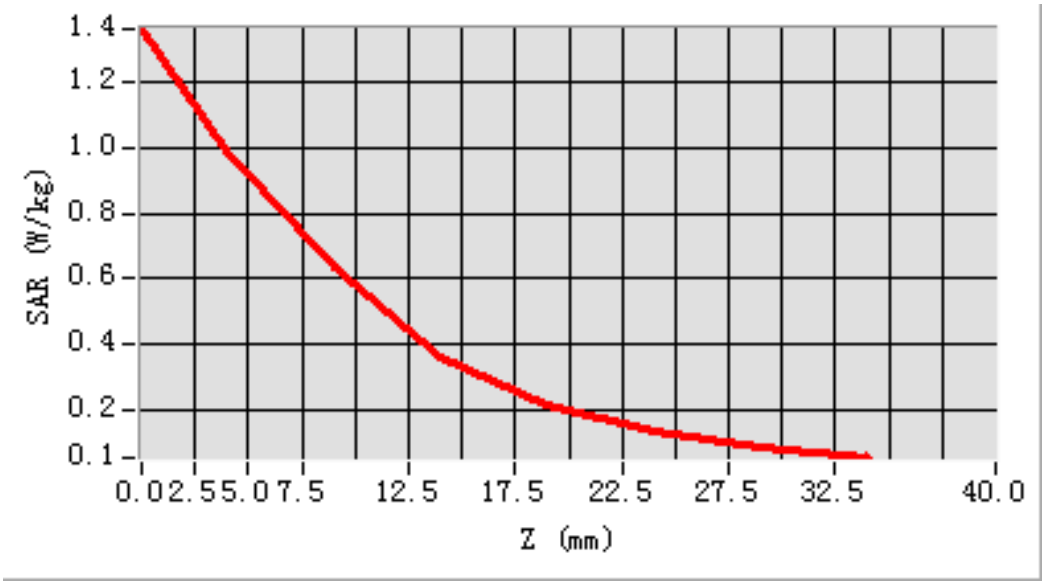
MEAS. 4 Body Plane with Back Side 10mm on Middle Channel in GPRS 1900 mode

Test Date:	10/6/2017
Measurement duration:	11 minutes 26 seconds
Signal:	GSM, f=1880.0 MHz, Duty Cycle: 1:4.0
Liquid Parameters:	Permittivity: 53.33; Conductivity: 1.51 S/m
Test condition:	Ambient Temperature: 22.4°C, Liquid Temperature: 21.3°C
Probe:	SN 08/16 SSE2 EPGO295, ConvF: 2.24
Area Scan:	sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan:	5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location:	X=0.000000, Y=-22.000000
SAR 10g (W/Kg):	0.482460
SAR 1g (W/Kg):	0.914331
Power drift (%):	-1.97

3D screen shot



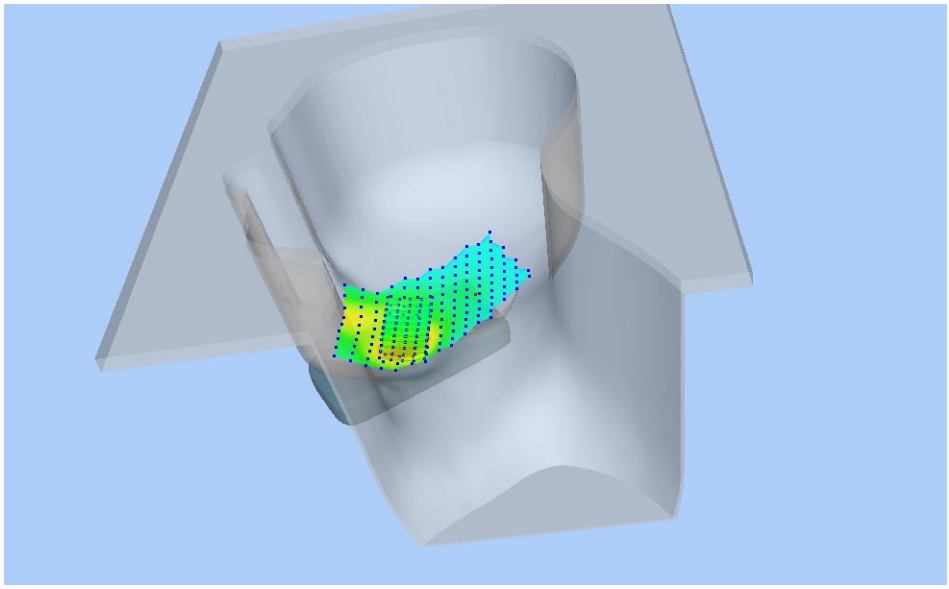
Z Axis Scan



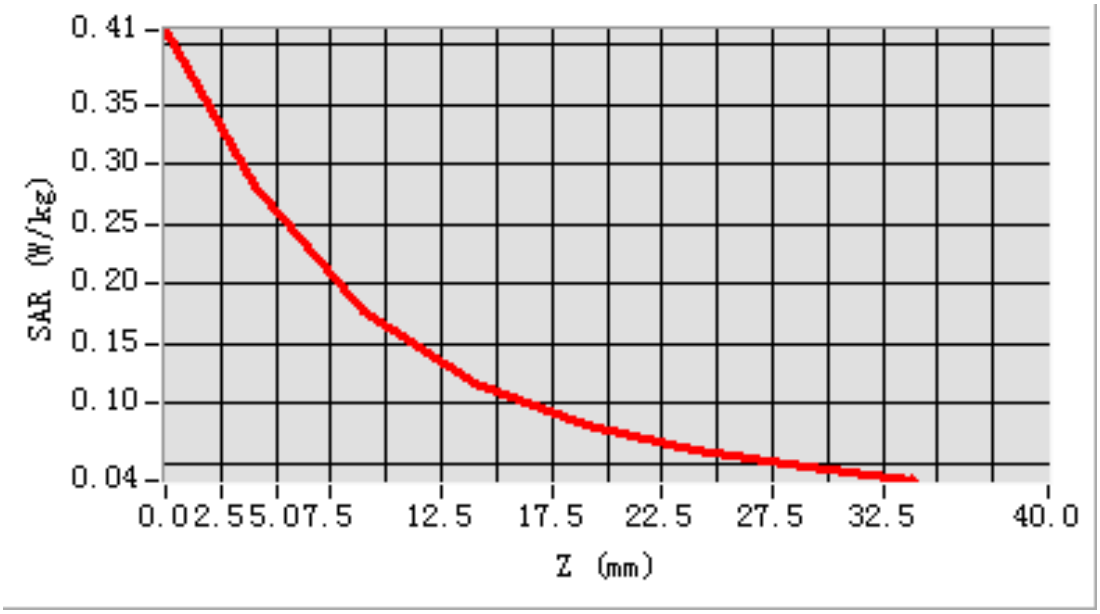
MEAS. 5 Right Head with Cheek on Middle Channel in WCDMA Band 2 mode

Test Date:	9/6/2017
Measurement duration:	12 minutes 13 seconds
Signal:	WCDMA, f=1880.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters:	Permittivity: 38.53; Conductivity: 1.38 S/m
Test condition:	Ambient Temperature: 22.3°C, Liquid Temperature: 21.5°C
Probe:	SN 08/16 SSE2 EPGO295, ConvF: 2.19
Area Scan:	sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan:	5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location:	X=-56.000000, Y=-56.000000
SAR 10g (W/Kg):	0.160495
SAR 1g (W/Kg):	0.271130
Power drift (%):	-3.42

3D screen shot



Z Axis Scan

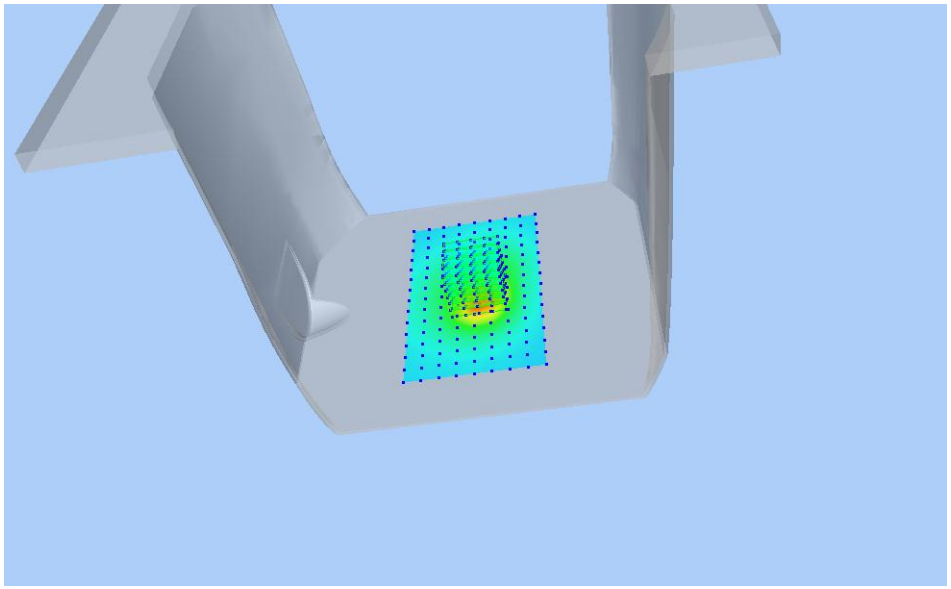


MEAS. 6 Body Plane with Bottom Edge 10mm on High Channel in WCDMA

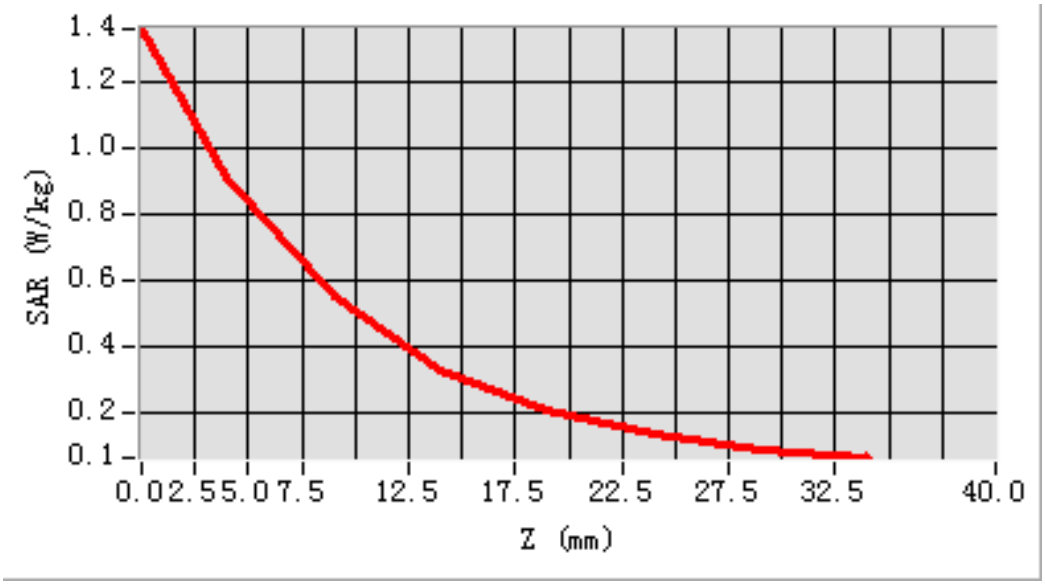
Band 2 mode

Test Date:	10/6/2017
Measurement duration:	12 minutes 19 seconds
Signal:	WCDMA, f=1907.6 MHz, Duty Cycle: 1:1.0
Liquid Parameters:	Permittivity: 53.09; Conductivity: 1.56 S/m
Test condition:	Ambient Temperature: 22.4°C, Liquid Temperature: 21.3°C
Probe:	SN 08/16 SSE2 EPGO295, ConvF: 2.24
Area Scan:	sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan:	5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location:	X=0.000000, Y=-2.000000
SAR 10g (W/Kg):	0.452580
SAR 1g (W/Kg):	0.859144
Power drift (%):	-0.32

3D screen shot



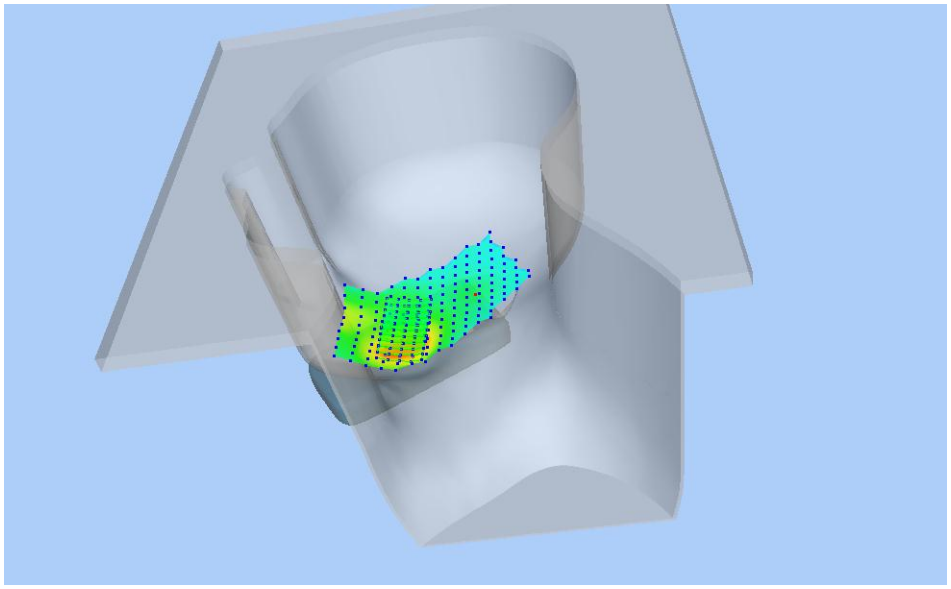
Z Axis Scan



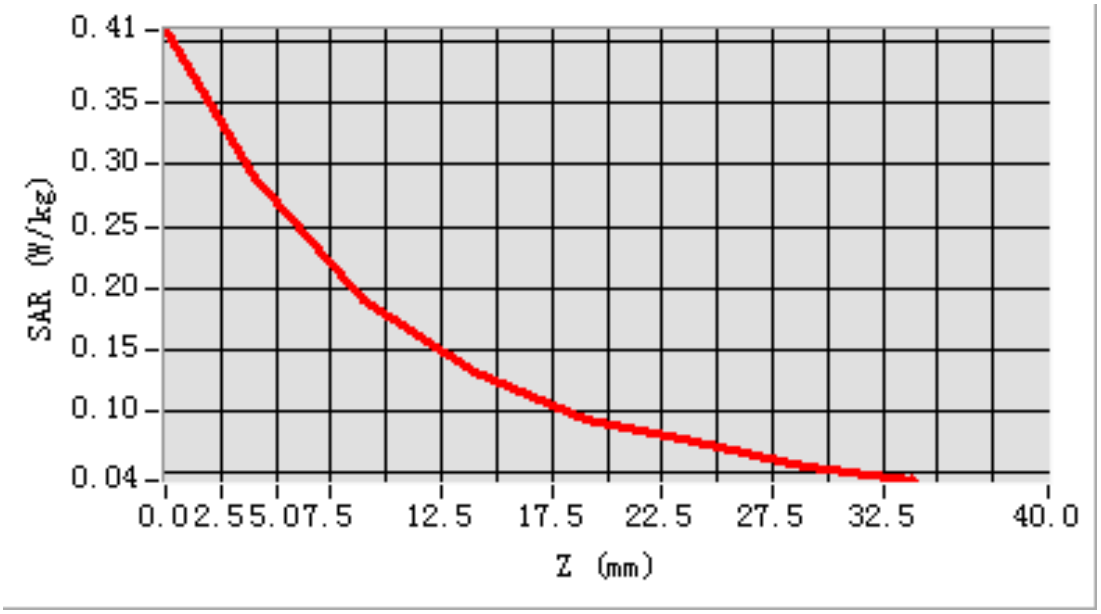
MEAS. 7 Right Head with Cheek on High Channel in WCDMA Band 4 mode

Test Date:	9/6/2017
Measurement duration:	12 minutes 13 seconds
Signal:	WCDMA, f=1752.6 MHz, Duty Cycle: 1:1.0
Liquid Parameters:	Permittivity: 41.94; Conductivity: 1.36 S/m
Test condition:	Ambient Temperature: 22.3°C, Liquid Temperature: 21.5°C
Probe:	SN 08/16 SSE2 EPGO295, ConvF: 1.88
Area Scan:	sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan:	5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location:	X=-56.000000, Y=-56.000000
SAR 10g (W/Kg):	0.170443
SAR 1g (W/Kg):	0.276732
Power drift (%):	0.77

3D screen shot



Z Axis Scan

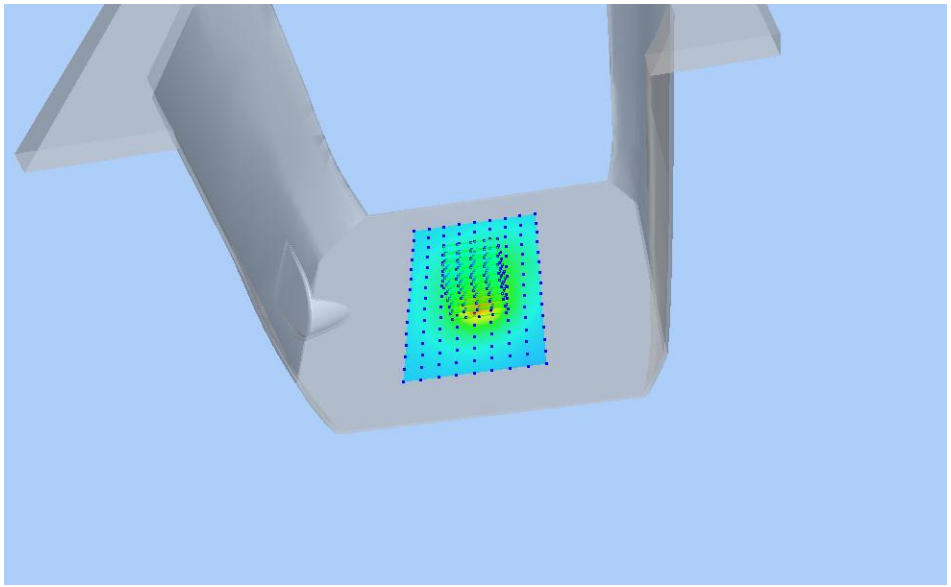


MEAS. 8 Body Plane with Bottom Edge 10mm on High Channel in WCDMA

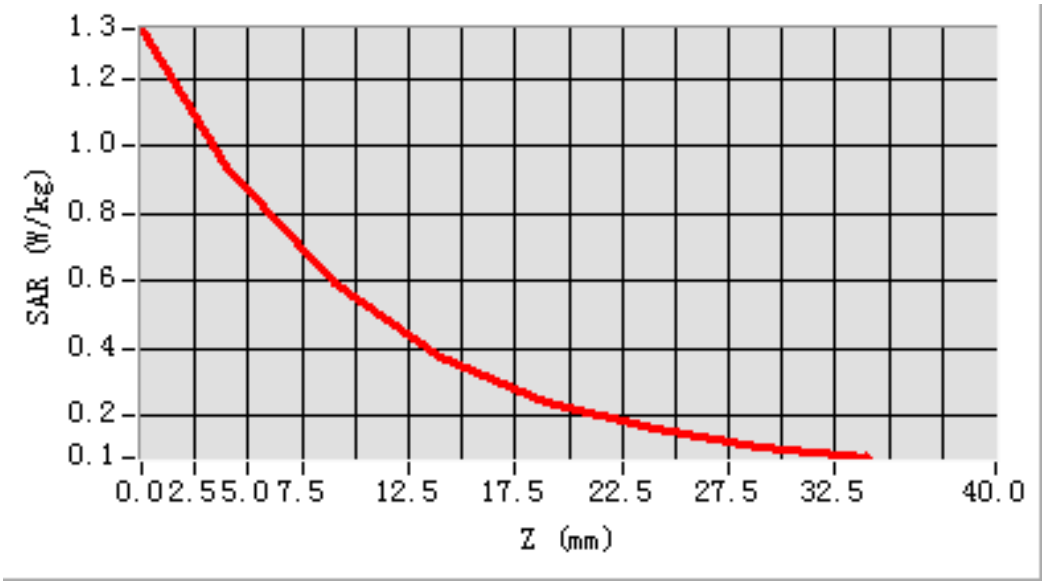
Band 4 mode

Test Date:	10/6/2017
Measurement duration:	12 minutes 13 seconds
Signal:	WCDMA, f=1752.6 MHz, Duty Cycle: 1:1.0
Liquid Parameters:	Permittivity: 53.61; Conductivity: 1.47 S/m
Test condition:	Ambient Temperature: 22.4°C, Liquid Temperature: 21.3°C
Probe:	SN 08/16 SSE2 EPGO295, ConvF: 1.94
Area Scan:	sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan:	5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location:	X=0.000000, Y=-12.000000
SAR 10g (W/Kg):	0.469565
SAR 1g (W/Kg):	0.758620
Power drift (%):	-1.89

3D screen shot



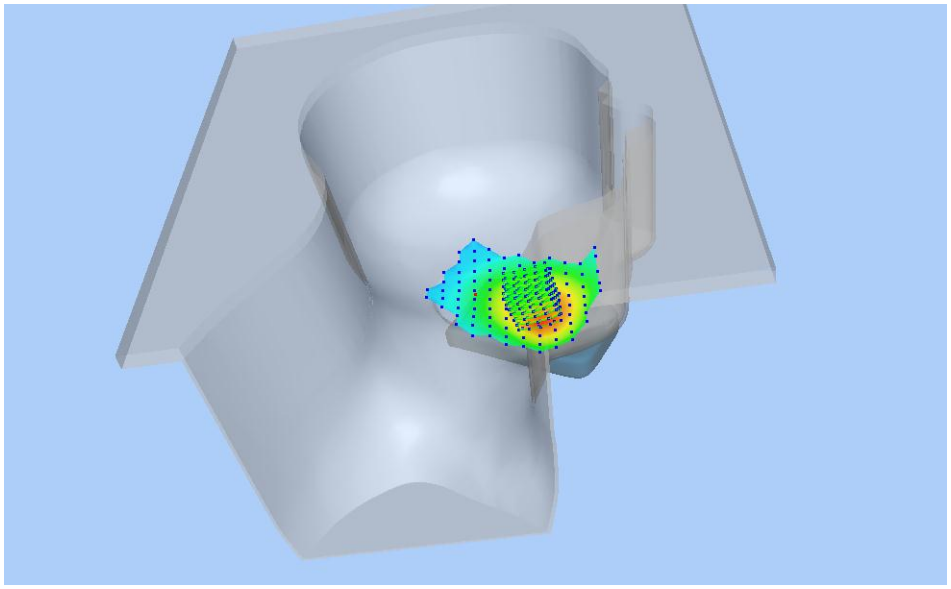
Z Axis Scan



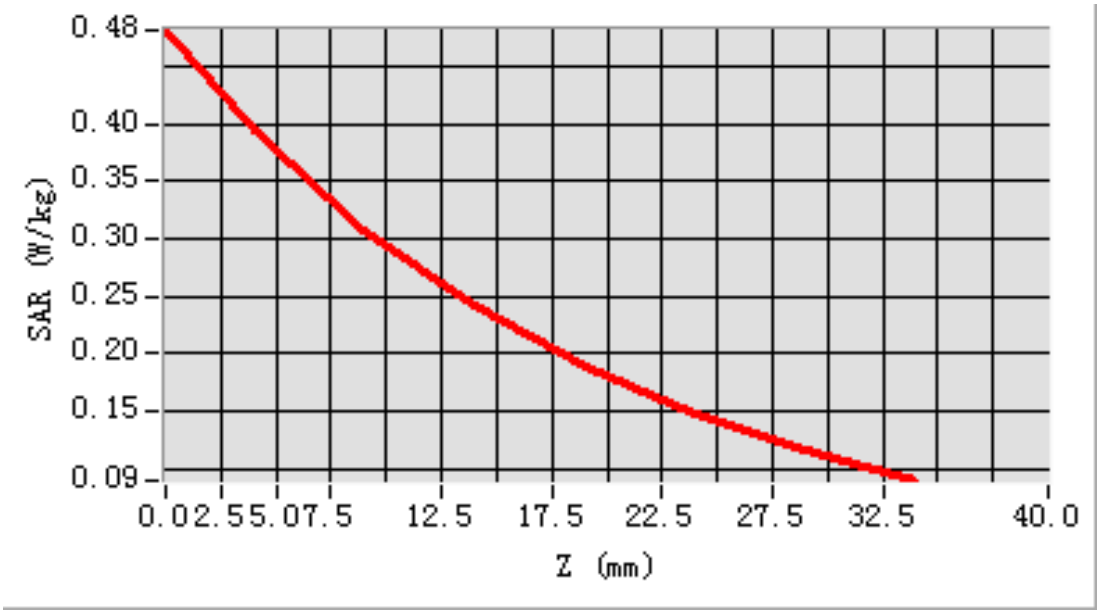
MEAS. 9 Left Head with Cheek on High Channel in WCDMA Band 5 mode

Test Date:	8/6/2017
Measurement duration:	11minutes 59 seconds
Signal:	WCDMA, f=846.6 MHz, Duty Cycle: 1:1.0
Liquid Parameters:	Permittivity: 41.67; Conductivity: 0.91 S/m
Test condition:	Ambient Temperature: 22.3°C, Liquid Temperature: 21.4°C
Probe:	SN 08/16 SSE2 EPGO295, ConvF: 1.78
Area Scan:	sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan:	5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location:	X=-48.000000, Y=-36.000000
SAR 10g (W/Kg):	0.281159
SAR 1g (W/Kg):	0.382901
Power drift (%):	1.30

3D screen shot



Z Axis Scan

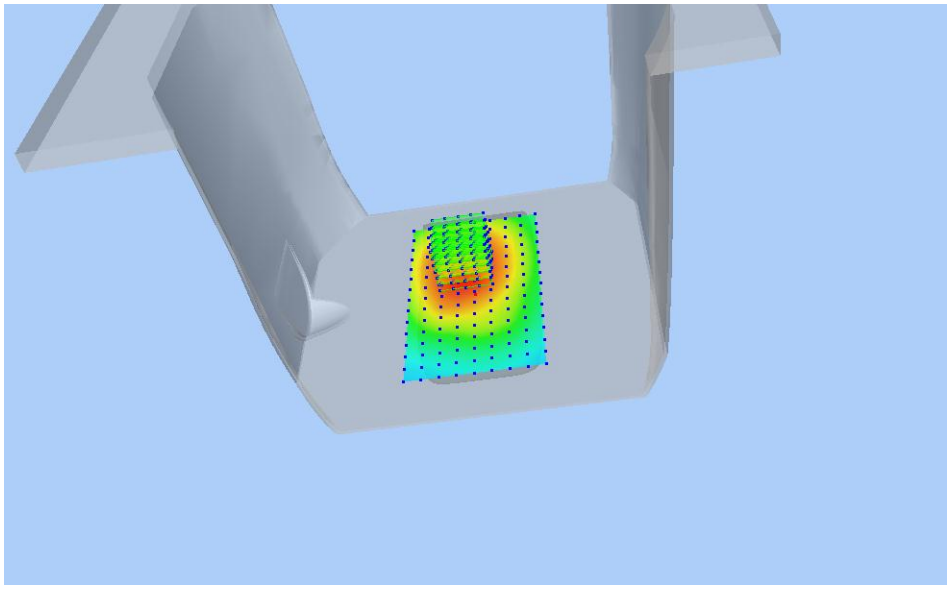


MEAS. 10 Body Plane with Back Side 10mm on High Channel in WCDMA

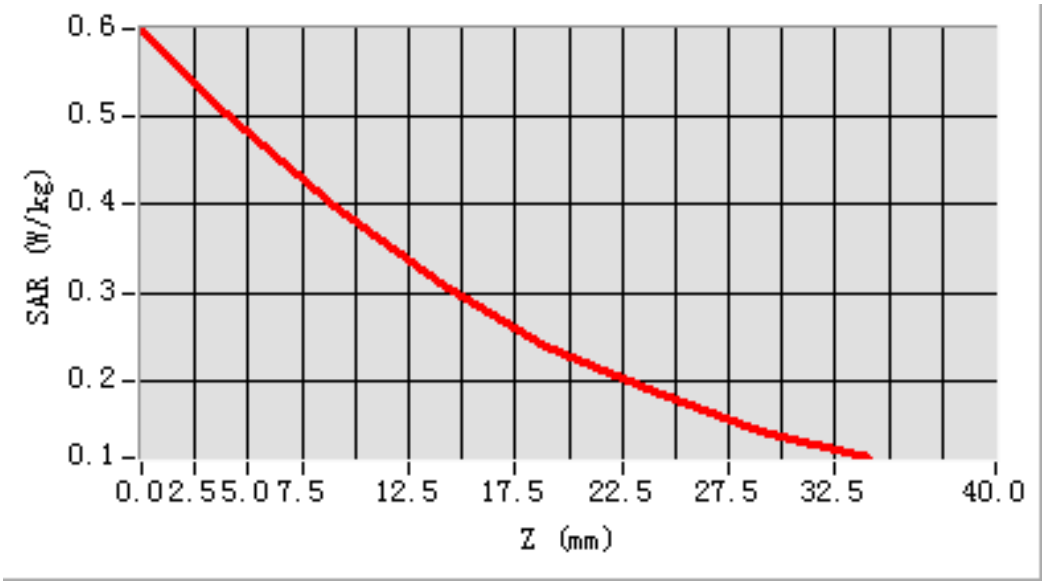
Band 5 mode

Test Date:	8/6/2017
Measurement duration:	10 minutes 42 seconds
Signal:	WCDMA, f=846.6 MHz, Duty Cycle: 1:1.0
Liquid Parameters:	Permittivity: 53.36; Conductivity: 0.99 S/m
Test condition:	Ambient Temperature: 22.3°C, Liquid Temperature: 21.4°C
Probe:	SN 08/16 SSE2 EPGO295, ConvF: 1.85
Area Scan:	sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan:	5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location:	X=0.000000, Y=18.000000
SAR 10g (W/Kg):	0.367501
SAR 1g (W/Kg):	0.491957
Power drift (%):	-0.09

3D screen shot



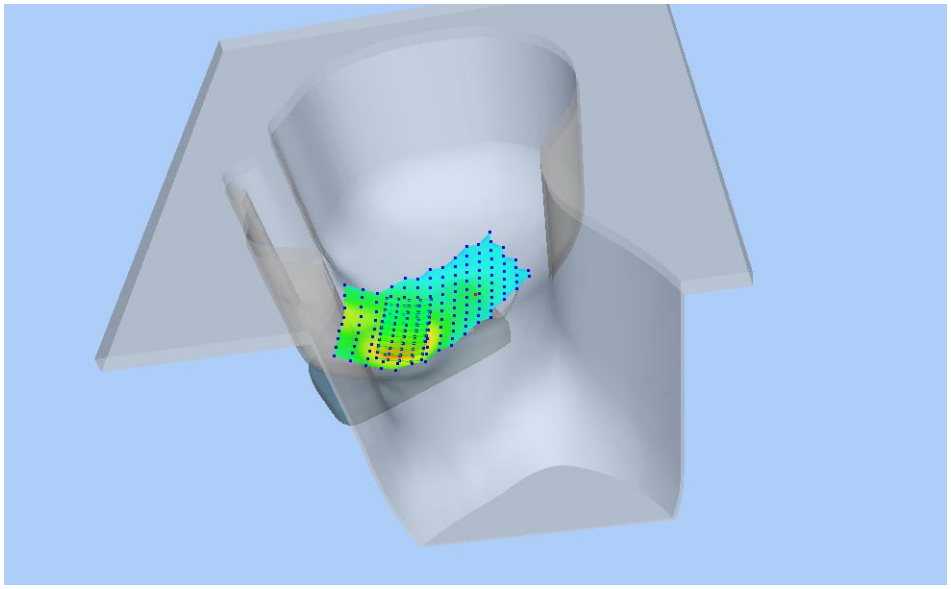
Z Axis Scan



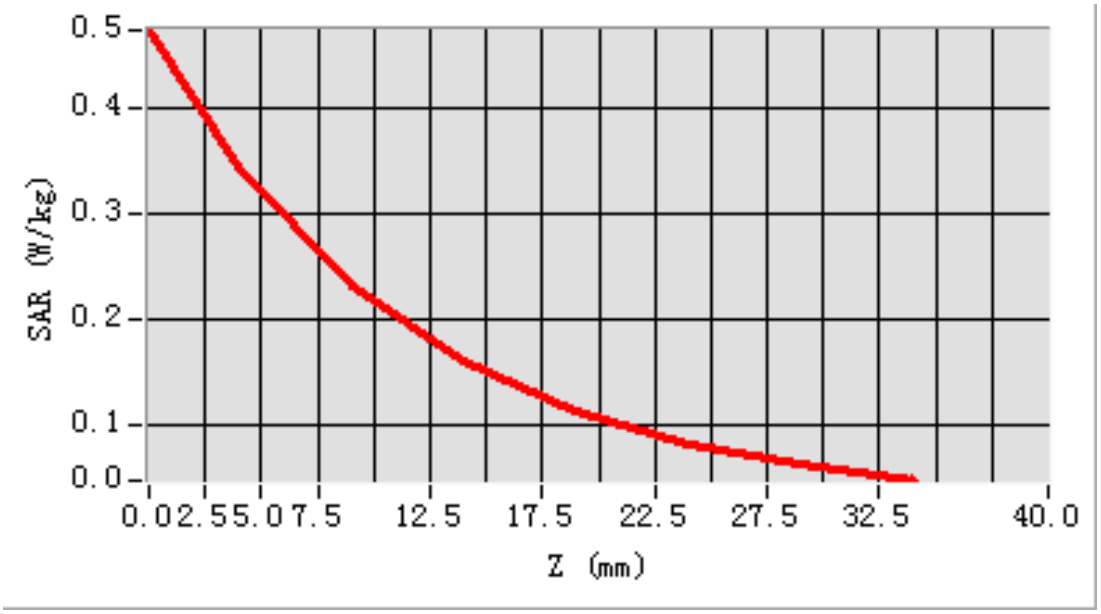
MEAS. 11 Right Head with Cheek on High Channel in LTE Band 4 1RB mode

Test Date:	9/6/2017
Measurement duration:	12 minutes 6 seconds
Signal:	LTE, f=1745.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters:	Permittivity: 42.08; Conductivity: 1.35 S/m
Test condition:	Ambient Temperature: 22.3°C, Liquid Temperature: 21.5°C
Probe:	SN 08/16 SSE2 EPGO295, ConvF: 1.88
Area Scan:	sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan:	5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location:	X=-56.000000, Y=-56.000000
SAR 10g (W/Kg):	0.203896
SAR 1g (W/Kg):	0.328536
Power drift (%):	-2.59

3D screen shot



Z Axis Scan

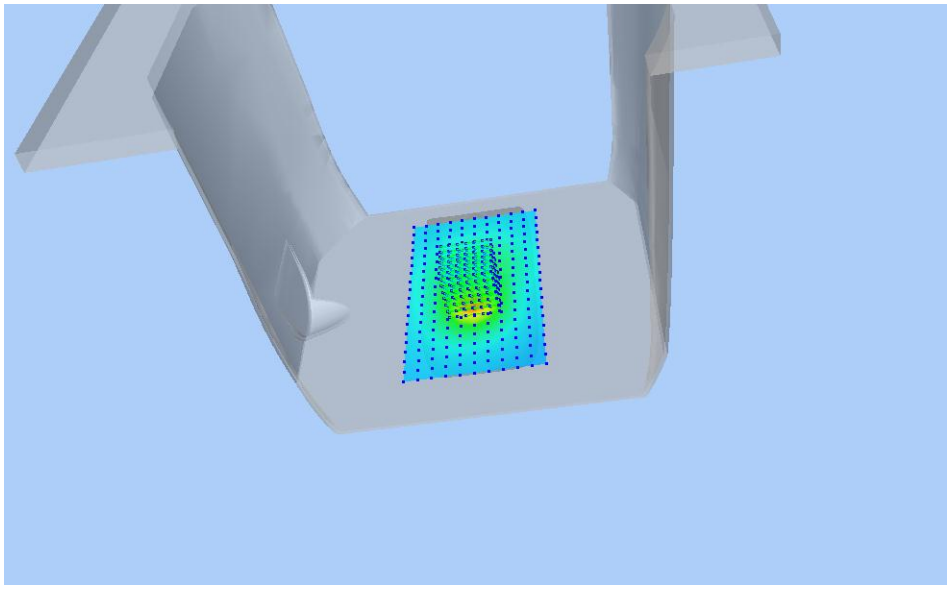


MEAS. 12 Body Plane with Bottom Edge 10mm on High Channel in LTE Band

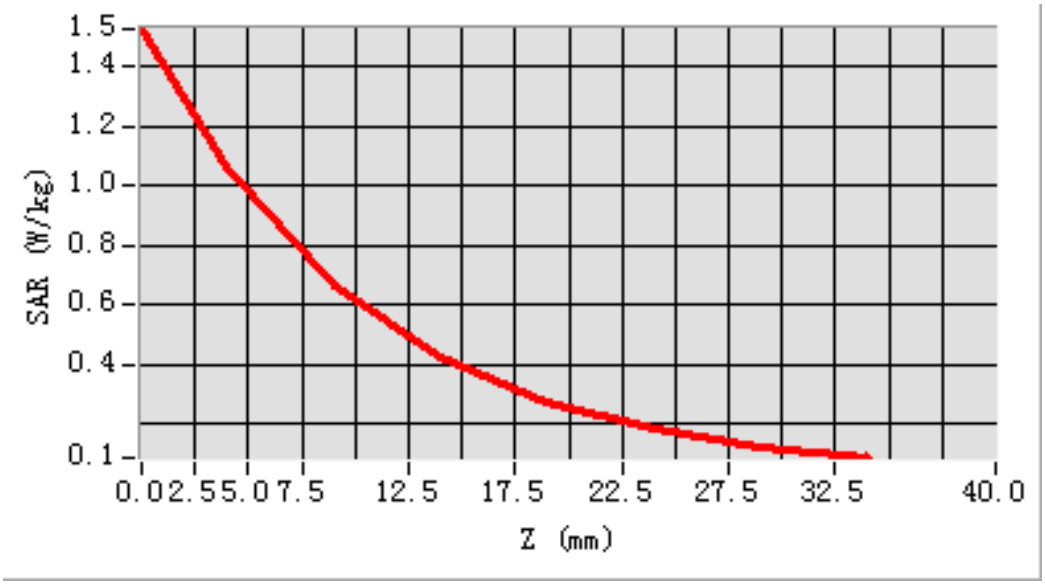
4 1RB mode

Test Date: 10/6/2017
Measurement duration: 13 minutes 26 seconds
Signal: LTE, f=1745.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 53.71; Conductivity: 1.46 S/m
Test condition: Ambient Temperature: 22.4°C, Liquid Temperature: 21.3°C
Probe: SN 08/16 SSE2 EPGO295, ConvF: 1.94
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location: X=0.000000, Y=-8.000000
SAR 10g (W/Kg): 0.534829
SAR 1g (W/Kg): 0.968155
Power drift (%): -0.80

3D screen shot



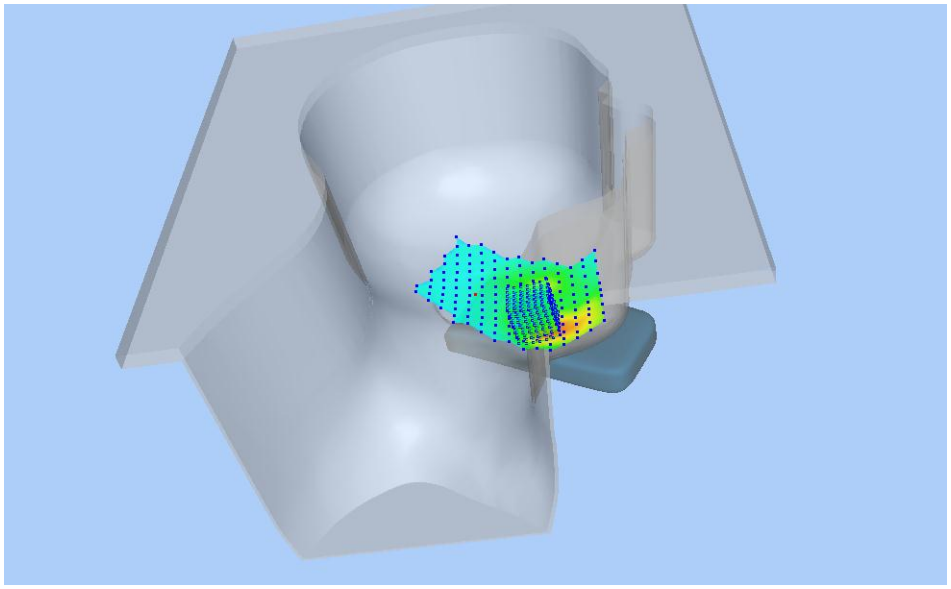
Z Axis Scan



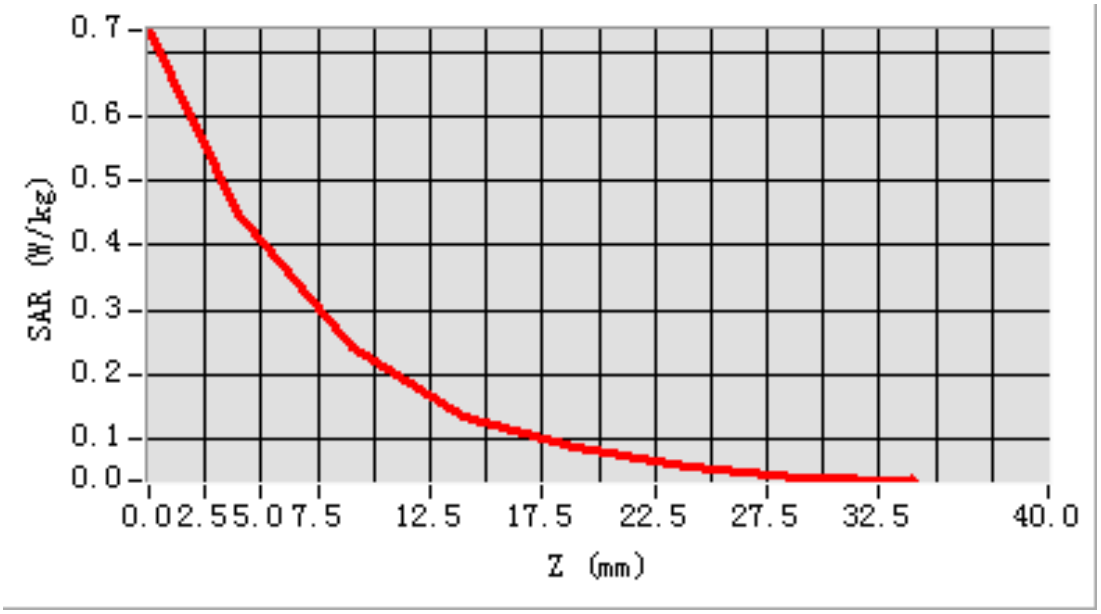
MEAS. 13 Left Head with Cheek on High Channel in LTE Band 7 1RB mode

Test Date:	12/6/2017
Measurement duration:	16 minutes 10 seconds
Signal:	LTE, f=2560.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters:	Permittivity: 40.49; Conductivity: 1.89 S/m
Test condition:	Ambient Temperature: 22.4°C, Liquid Temperature: 21.5°C
Probe:	SN 08/16 SSE2 EPGO295, ConvF: 2.20
Area Scan:	sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan:	7x7x7,dx=5mm, dy=5mm, dz=5mm,Complete
Maximum location:	X=-46.000000, Y=-56.000000
SAR 10g (W/Kg):	0.225180
SAR 1g (W/Kg):	0.430400
Power drift (%):	-0.31

3D screen shot



Z Axis Scan

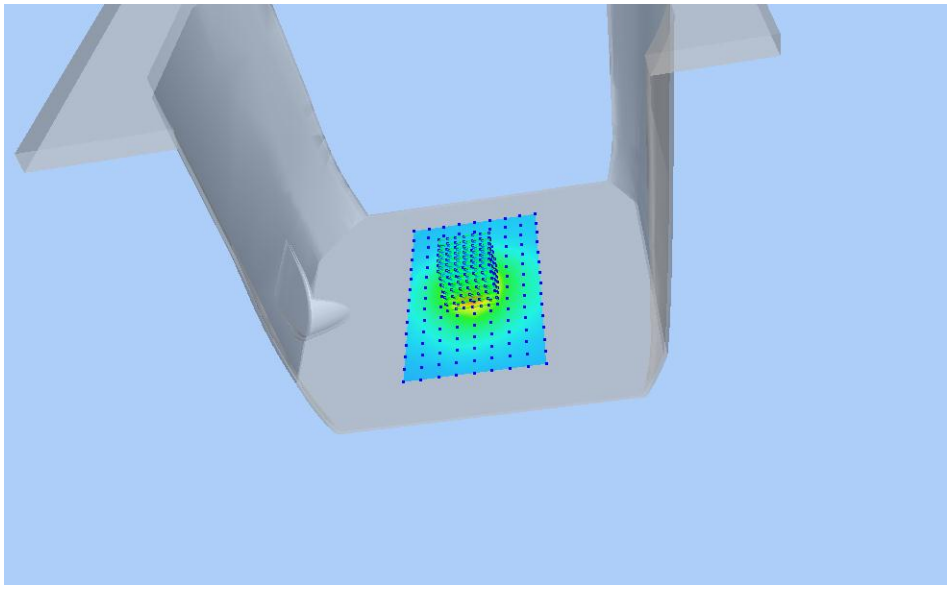


MEAS. 14 Body Plane with Bottom Edge 10mm on Low Channel in LTE Band 7

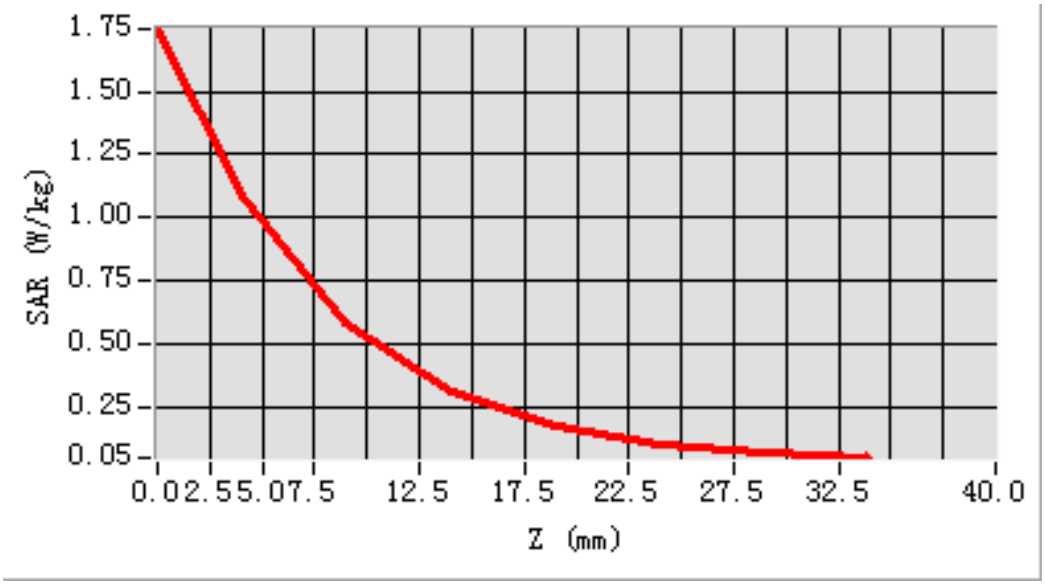
1RB mode

Test Date:	13/6/2017
Measurement duration:	16 minutes 12 seconds
Signal:	LTE, f=2510.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters:	Permittivity: 53.06; Conductivity: 2.04 S/m
Test condition:	Ambient Temperature: 22.2°C, Liquid Temperature: 21.1°C
Probe:	SN 08/16 SSE2 EPGO295, ConvF: 2.27
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=-2.000000
SAR 10g (W/Kg):	0.512764
SAR 1g (W/Kg):	1.020038
Power drift (%):	-0.79

3D screen shot



Z Axis Scan



ANNEX D EXTERNAL PHOTOS

Please refer the document “BL-SZ1760126-AW.pdf”.

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document “BL-SZ1760126-AS.pdf”.

ANNEX F CALIBRATION REPORT

Please refer the document “CALIBRATION REPORT.pdf”.

--END OF REPORT--