

SAR Test Report

For

Shenzhen Alldocube Technology And Science Co., Ltd

Test Standards:	EN50566:2017 EN50663:2017 <u>EN62209-2:2010</u>
Product Description:	tablet pc
Tested Model:	C11
Additional Model No.:	<u>C11</u>
Report No.:	<u>EC1910010C11</u>
Tested Date:	<u>2019-08-01 to 2019-08-30</u>
Issued Date:	<u>2019-09-01</u>
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Note: This report is based on "STS1910010C11" of Shenzhen STS Test Services Co., Ltd.



SAR TEST REPORT

Report No: STS1910010C11

Issued for

Shenzhen Alldocube Technology and Science Co., Ltd

18/F, Jia'anda Bldg, Huafan Road, Dalang, Honghua District,
Shenzhen, China 518109

Product Name:	tablet pc
Brand Name:	ALLDOCUBE
Model Name:	C11
Series Model:	C11
Test Standard:	EN 50360: 2017; EN 50566: 2017
	EN 62209-1: 2016;EN 62209-2: 2010;
	EN 50663: 2017
Max. SAR (10g):	Body: 0.47 W/kg

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**Test Report Certification**

Applicant's Name: Shenzhen Alldocube Technology and Science Co., Ltd
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Shenzhen, China 518109
Manufacture's Name: Shenzhen Alldocube Technology and Science Co., Ltd
Address: 18/F, Jia'anda Bldg, Huafan Road, Dalang, Honghua District,
Shenzhen, China 518109

Product Description

Product name: tablet pc
Brand name: ALLDOCUBE
Model name: C11
Series Model: C11
Standards: EN 50360: 2017; EN 50566: 2017
EN 62209-1: 2016; EN 62209-2: 2010;
EN 50663: 2017

This device described above has been tested by STS, and the test results show that the equipment under test (EUT) is in compliance with the 2014/53/EU RED Directive Art.3.1a requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test :
Date (s) of performance of tests : 01 Aug. 2019~30 Aug. 2019
Date of Issue : 01 Sep. 2019
Test Result : **Pass**

Testing Engineer :

Aaron Bu

(Aaron Bu)

Technical Manager :

John Zou

(John Zou)

Authorized Signatory :

Vita Li

(Vita Li)





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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	1 Sep. 2019	STS1910010C11	ALL	Initial Issue
Note: Format version of the report -V01				



1. General Information

1.1 EUT Description

Product Name	tablet pc	
Brand Name	ALLDOCUBE	
Model Name	C11	
Series Model	C11	
Model Difference	N/A	
Hardware Version	N/A	
Software Version	N/A	
Frequency Range	GSM 900: 880.2 MHz to 914.8 MHz GSM1800: 1710.2 MHz to 1784.8 MHz WCDMA Band I: 1922.4 MHz to 1977.6 MHz LTE Band 1: 1920 MHz to 1980 MHz LTE Band 3: 1710 MHz to 1785 MHz LTE Band 38: 2570 MHz to 2620 MHz LTE Band 40: 2300 MHz to 2400 MHz Wi-Fi IEEE 802.11b/g/n: 2412MHz to 2472 MHz Wi-Fi IEEE 802.11a/n/ac: 5150 – 5250 MHz, SRD: 5725~5875MHz Bluetooth: 2402 MHz to 2480 MHz GPS: 1575.42MHz FM: 88 MHz to 108 MHz	
Max. Reported SAR(10g):	Mode	Body(W/Kg)
	GSM 900	0.768
	GSM 1800	0.712
	WCDMA Band I	0.436
	LTE Band 1	0.423
	LTE Band 3	0.592
	LTE Band 38	0.303
	LTE Band 40	0.435
	2.4GHz WLAN	0.115
	Limit	2.0 W/Kg
Adapter	N/A	
Battery	N/A	
Description test modes	SIM 1 and SIM 2 is a chipset unit and tested as single chipset , SIM 1 is used to tested	
Antenna Specification:	GSM/WCDMA/LTE: PIFA Antenna Bluetooth/WLAN/GPS: PIFA Antenna	
Operating Mode:	Maximum continuous output	



1.2 Test Environment

Ambient conditions in the SAR laboratory:

Items	Required
Temperature (°C)	18-25
Humidity (%RH)	30-70

1.3 Test Factory

Shenzhen STS Test Services Co., Ltd.

Add. : 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road,
Fuyong Street, Bao'an District, Shenzhen, Guangdong, China



2. Test Standards And Limits

No.	Identity	Document Title
1	EN 50360: 2017	Product standard to demonstrate the compliance of wireless communication devices, with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 300 MHz to 6 GHz: devices used next to the ear
2	EN 50566: 2017	Product standard to demonstrate the compliance of wireless communication devices with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 30 MHz to 6 GHz: hand-held and body mounted devices in close proximity to the human body
3	EN 62209-1: 2016	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Part 1: Devices used next to the ear (Frequency range of 300 MHz to 6 GHz)
4	EN 62209-2: 2010	Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures –Part 2: Procedure to determine the Specific Absorption Rate (SAR) in the head and body for 30MHz to 6GHz Handheld and Body-Mounted Devices used inclose proximity to the body
5	EN 50663: 2017	Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0MHz to 300GHz)

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. According to EN 50360 and 1999/519/EC the limit for General Population/Uncontrolled exposure should be applied for this device, it is 2.0 W/kg as averaged over any 10 gram of tissue.

(A). Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body Partial-Body Hands, Wrists, Feet and Ankles

0.4 8.0 20.0

(B). Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body Partial-Body Hands, Wrists, Feet and Ankles

0.08 2.0 4.0

NOTE: **Whole-Body SAR** is averaged over the entire body, **partial-body SAR** is averaged over any 10 gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

Population/Uncontrolled Environments:

are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Occupational/Controlled Environments:

are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

NOTE
GENERAL POPULATION/UNCONTROLLED EXPOSURE
PARTIAL BODY LIMIT
2.0 W/kg

3. SAR Measurement System

3.1 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:

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

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

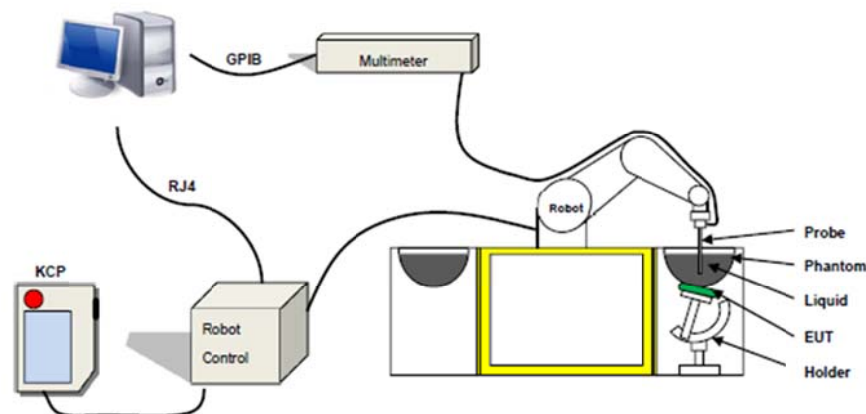
$$SAR = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue;

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

3.2 SAR System

MVG SAR System Diagram:



Comosar is a system that is able to determine the SAR distribution inside a phantom of human being according to different standards. The Comosar system consists of the following items:

- Main computer to control all the system
- 6 axis robot
- Data acquisition system
- Miniature E-field probe
- Phone holder
- Head simulating tissue

The following figure shows the system.



The EUT under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The OpenSAR software computes the results to give a SAR value in a 1g or 10g mass.

3.2.1 Probe

For the measurements the Specific Dosimetric E-Field Probe SN 14/16 EP309 with following specifications is used

- Dynamic range: 0.01-100 W/kg
- Tip Diameter: 5 mm
- Length of Individual Dipoles: 4.5 mm
- Maximum external diameter: 8 mm
- Distance between dipole/probe extremity: 8 mm (repeatability better than +/- 2.7mm)
- Probe linearity: $0 \pm 2.27\%$ (± 0.10 dB)
- Axial Isotropy: < 0.10 dB
- Spherical Isotropy: < 0.10 dB
- Calibration range: 400 MHz to 3 GHz for head & body simulating liquid.
- Angle between probe axis (evaluation axis) and surface normal line: less than 30°



Figure 1-MVG COMOSAR Dosimetric E field Dipole

3.2.2 Phantom

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.

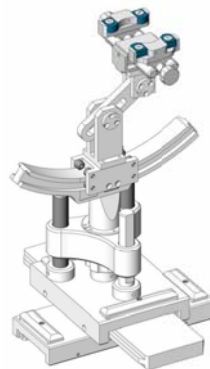


Figure-SN 32/14 SAM115



Figure-SN 32/14 SAM116

3.2.3 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.

4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

The simulating liquids should be checked at the beginning of a series of SAR measurements to determine if the dielectric parameters are within the tolerances of the specified target values

The uncertainty due to the liquid conductivity and permittivity arises from two different sources. The first source of error is the deviation of the liquid conductivity from its target value (max _ 5 %) and the second source of error arises from the measurement procedures used to assess conductivity. The uncertainty shall be assessed using a rectangular probability For 10 g averaging, the maximum weighting coefficient for SAR is 0,5.

EN 62209 RECOMMENDED TISSUE DIELECTRIC PARAMETERS

The head and body tissue dielectric parameters recommended by the EN 62209 have been incorporated in the following table.

Frequency	ϵ_r		σ 10g S/m	
	Head	Body	Head	Body
300	45.3	45.3	0.87	0.87
450	43.5	43.5	0.87	0.87
900	41.5	41.5	0.97	0.97
1450	40.5	40.5	1.20	1.20
1800	40.0	40.0	1.40	1.40
2450	39.2	39.2	1.80	1.80
3000	38.5	38.5	2.40	2.40
5200	36.0	36.0	4.70	4.70

LIQUID MEASUREMENT RESULTS

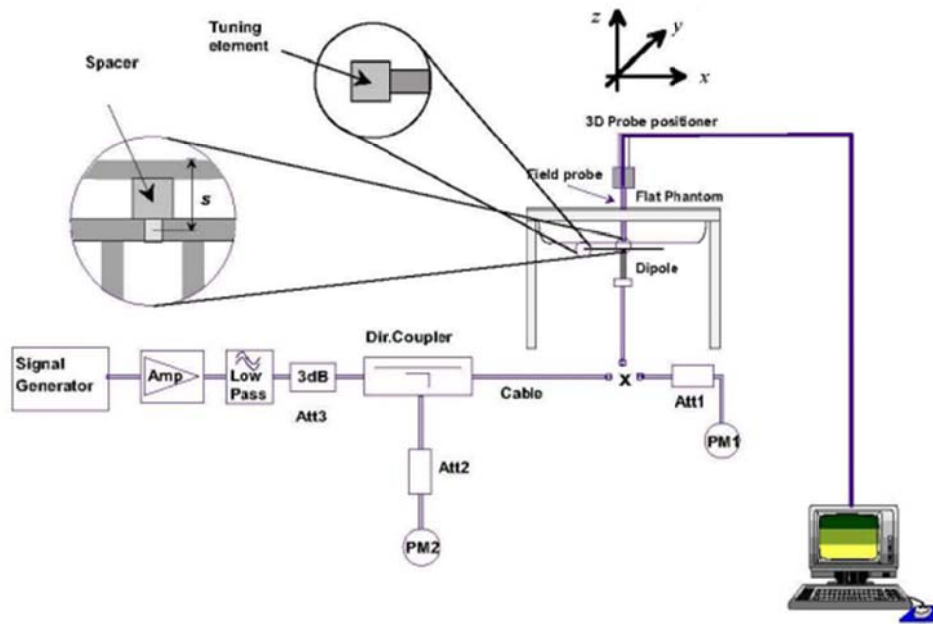
Date	Ambient condition		Head/Body Simulating Liquid		Parameters	Target	Measured	Deviation [%]	Limited [%]
	Temp. [°C]	Humidity [%]	Frequency	Temp. [°C]					
2018-07-26	22.7	46	900 MHz	22.3	Permittivity:	41.5	40.01	-3.59	±10
					Conductivity:	0.97	0.95	-2.35	± 10
2018-07-27	22.8	44	1800 MHz	22.4	Permittivity:	40	41.21	3.01	± 10
					Conductivity:	1.4	1.36	-2.65	± 10
2018-07-27	22.8	44	1900 MHz	22.4	Permittivity:	40	39.41	-1.48	± 10
					Conductivity:	1.4	1.41	0.87	± 10
2018-07-28	23.1	48	2450 MHz	22.7	Permittivity:	39.2	38.78	-1.08	± 10
					Conductivity:	1.8	1.81	0.59	± 10
2018-07-28	23.1	48	2600 MHz	22.7	Permittivity:	39.0	38.85	-0.38	± 10
					Conductivity:	1.96	1.91	-2.65	± 10

5. SAR System Validation

5.1 Validation System

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

The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system validation setup is shown as below.



5.2 Validation Result

Comparing to the original SAR value provided by MVG, the validation data should be within its specification of $\pm 10\%$.

Date	Freq.	Power	Tested Value	Normalized SAR	Target SAR	Tolerance
	(MHz)	(mW)	(W/Kg)	(W/kg)	(W/kg)	(%)
2018-07-26	900	100	0.647	6.47	6.99	-7.48
2018-07-27	1800	100	2.042	20.42	20.1	1.58
2018-07-27	1900	100	2.085	20.85	20.5	1.72
2018-07-28	2450	100	2.448	24.48	24	2.01
2018-07-28	2600	100	2.364	23.64	24.6	-3.90



6. SAR Evaluation Procedures

The procedure for assessing the average SAR value consists of the following steps:

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

Area Scan& Zoom Scan:

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 D01v01r01 quoted below.

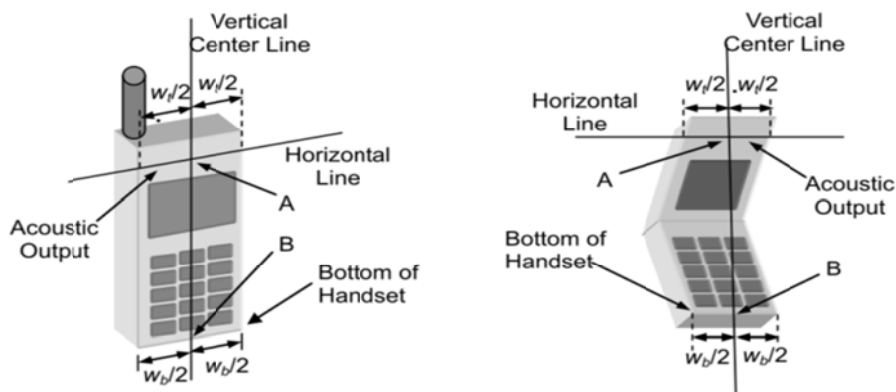
When the 1-g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

7. EUT Test Position

This EUT was tested in Right Cheek, Right Titled, Left Cheek, Left Titled, Front Face and Rear Face.

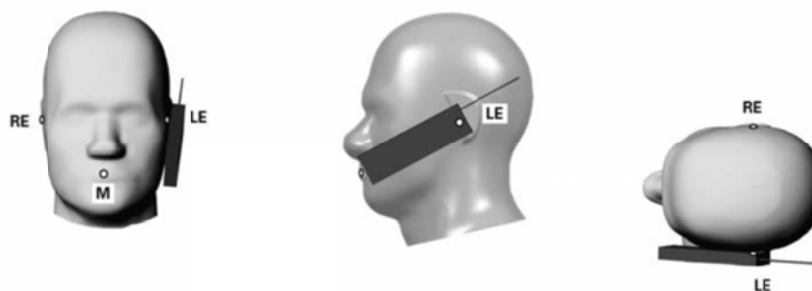
Define Two Imaginary Lines On The Handset:

- 1) The vertical centerline 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 handset.
- 2) 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.
- 3) 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 to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



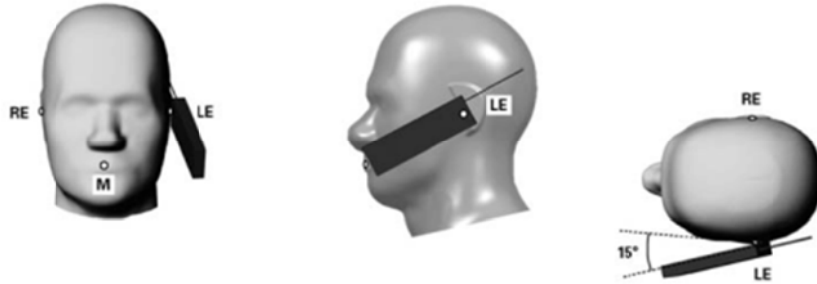
7.1 Cheek Position

- 1) 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 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.
- 2) 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 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.



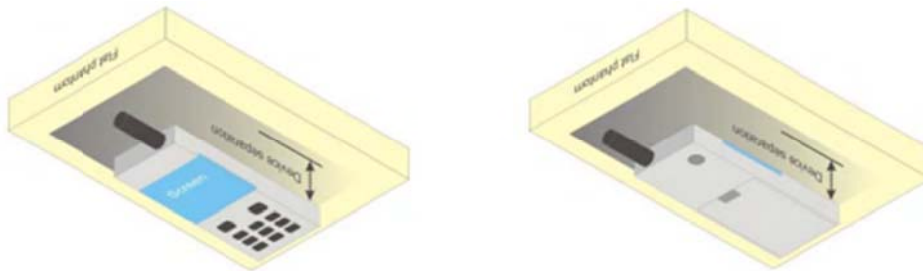
7.2 Tilt Position

- (1) To position the device in the “cheek” position described above.
- (2) While maintaining the device in 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 with the ear is lost.



7.3 Body-worn Position Conditions

- 1) To position the EUT parallel to the phantom surface.
- 2) To adjust the EUT parallel to the flat phantom.
- 3) To adjust the distance between the EUT surface and the flat phantom to 5mm.





8. Measurement Uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

NO	Source	Tol(%)	Prob. Dist.	Div. k	ci (1g)	ci (10g)	1gUi	10gUi	Ve ff
Measurement System									
1	Probe calibration	5.8	N	1	1	1	5.8	5.8	∞
2	Axial isotropy	3.5	R	√3	(1-cp)1/2	(1-cp)1/2	1.43	1.43	∞
3	Hemispherical isotropy	5.9	R	√3	√Cp	√Cp	2.41	2.41	∞
4	Boundary effect	1.0	R	√3	1	1	0.58	0.58	∞
5	Linearity	4.7	R	√3	1	1	2.71	2.71	∞
6	System Detection limits	1.0	R	√3	1	1	0.58	0.58	∞
7	Readout electronics	0.5	N	1	1	1	0.50	0.50	∞
8	Response time	0	R	√3	1	1	0	0	∞
9	Integration time	1.4	R	√3	1	1	0.81	0.81	∞
10	Ambient noise	3.0	R	√3	1	1	1.73	1.73	∞
11	Ambient reflections	3.0	R	√3	1	1	1.73	1.73	∞
12	Probe positioner mech. restrictions	1.4	R	√3	1	1	0.81	0.81	∞
13	Probe positioning with respect to phantom shell	1.4	R	√3	1	1	0.81	0.81	∞
14	Max.SAR evaluation	1.0	R	√3	1	1	0.6	0.6	∞
Test sample related									
15	Device positioning	2.6	N	1	1	1	2.6	2.6	11
16	Device holder	3	N	1	1	1	3.0	3.0	7
17	Drift of output power	5.0	R	√3	1	1	2.89	2.89	∞
Phantom and set-up									
18	Phantom uncertainty	4.0	R	√3	1	1	2.31	2.31	∞
19	Liquid conductivity (target)	2.5	N	1	0.78	0.71	1.95	1.78	5
20	Liquid conductivity (meas)	4	N	1	0.23	0.26	0.92	1.04	5
21	Liquid Permittivity (target)	2.5	N	1	0.78	0.71	1.95	1.78	∞
22	Liquid Permittivity (meas)	5.0	N	1	0.23	0.26	1.15	1.30	∞
Combined standard			RSS	$U_c = \sqrt{\sum_{i=1}^n C_i^2 U_i^2}$			10.63%	10.54%	
Expanded uncertainty (P=95%)		$U = k U_C, k=2$					21.26%	21.08%	

9. Conducted Power Measurement

Test Result:

RF Output Power (dBm)						
Band	GSM 900			DCS 1800		
Channel	975	60	124	512	698	885
Frequency (MHz)	880.2	902.0	914.8	1710.2	1747.4	1784.8
GSM(GMSK, 1-Slot)	33.38	33.83	33.80	31.18	31.23	30.98
GPRS (GMSK, 1-Slot)	30.52	30.61	30.52	27.19	26.76	27.10
GPRS (GMSK, 2-Slot)	30.24	30.20	30.14	26.72	26.48	26.72
GPRS (GMSK, 3-Slot)	29.84	29.89	29.81	26.26	26.19	26.32
GPRS (GMSK, 4-Slot)	28.94	29.28	28.22	27.24	27.21	26.84
EGPRS(8PSK, 1-Slot)	24.59	24.42	24.54	21.39	21.34	21.31
EGPRS(8PSK, 2-Slot)	24.14	24.06	24.15	21.05	20.91	20.83
EGPRS(8PSK, 3-Slot)	23.69	23.75	23.85	20.56	20.48	20.53
EGPRS(8PSK, 4-Slot)	21.64	21.46	22.33	21.92	21.51	22.69
Remark: GPRS, CS4 coding scheme. EGPRS, MCS5 coding scheme. Multi-Slot Class 8 , Support Max 4 downlink, 1 uplink , 5 working link Multi-Slot Class 10 , Support Max 3 downlink, 2 uplink , 5 working link Multi-Slot Class 12 , Support Max 1 downlink, 4 uplink , 5 working link						

Fram- RF Output Power (dBm)						
Band	GSM 900			DCS 1800		
Channel	975	60	124	512	698	885
Frequency (MHz)	880.2	902.0	914.8	1710.2	1747.4	1784.8
GSM(GMSK, 1-Slot)	24.38	24.83	24.80	22.18	22.23	21.98
GPRS (GMSK, 1-Slot)	21.52	21.61	21.52	18.19	17.76	18.10
GPRS (GMSK, 2-Slot)	24.24	24.20	24.14	20.72	20.48	20.72
GPRS (GMSK, 3-Slot)	25.58	25.63	25.55	22.00	21.93	22.06
GPRS (GMSK, 4-Slot)	25.94	26.28	25.22	24.24	24.21	23.84
EGPRS(8PSK, 1-Slot)	15.59	15.42	15.54	12.39	12.34	12.31
EGPRS(8PSK, 2-Slot)	18.14	18.06	18.15	15.05	14.91	14.83
EGPRS(8PSK, 3-Slot)	19.43	19.49	19.59	16.30	16.22	16.27
EGPRS(8PSK, 4-Slot)	18.64	18.46	19.33	18.92	18.51	19.69

Remark :

1. SAR testing was performed on the maximum frame-averaged 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) – 9.03 dB
Frame-averaged power = Burst averaged power (2 Tx Slots) – 6.02 dB
Frame-averaged power = Burst averaged power (3 Tx Slots) - 4.26 dB
Frame-averaged power = Burst averaged power (4 Tx Slots) – 3.01 dB



WCDMA

As the SAR body tests for WCDMA **Band I**, we established the radio link through call processing. The maximum output power were verified on high, middle and low channels for each test band according to 3GPP TS 34.121 with the following configuration: a 12.2kbps RMC, 64,144,384 kbps RMC with TPC set to all "1's"b Test loop Mode 1

The following procedures had been used to prepare the EUT for the SAR test.

Band	WCDMA Band I		
Channel	9612	9750	9888
Frequency (MHz)	1922.4	1950	1977.6
RMC 12.2Kbps	22.89	23.24	23.14
HSDPA Subtest-1	21.87	22.19	22.09
HSDPA Subtest-2	21.88	21.69	22.83
HSDPA Subtest-3	20.96	21.68	21.96
HSDPA Subtest-4	21.13	22.06	21.96
HSUPA Subtest-1	22.28	20.22	20.14
HSUPA Subtest-2	22.82	20.74	20.55
HSUPA Subtest-3	23.33	21.17	21.04
HSUPA Subtest-4	22.34	20.22	20.05
HSUPA Subtest-5	24.26	22.14	22.05

**WLAN (2.4Gband)**

- a. The client supplied a special driver to program the EUT, allowing it to continually transmit the specified maximum power and change the channel frequency.
- b. Maximum conducted power was measured by replacing the antenna with an adapter for conductive measurement.
- c. The conducted power was measured at the high, middle and low channel frequency before and after the SAR measurement.
- d. During SAR test, the highest output channel per band measured first, and then if necessary, the other channels were measured according to the normal procedures.

Output power (Average)(dBm):

Mode	Channel Number	Frequency (MHz)	Average EIRP Power (dBm)
802.11b	1	2412	14.51
	7	2442	14.82
	13	2472	14.34
802.11g	1	2412	12.92
	7	2442	12.39
	13	2472	12.42
802.11 n-HT20	1	2412	12.72
	7	2442	12.38
	13	2472	12.24
802.11 n-HT40	3	2422	12.08
	7	2442	11.8
	11	2462	12.05

**Bluetooth**

Mode	Average EIRP Power (dBm)
GFSK(1Mbps)	3.28
$\pi/4$ -DQPSK(2Mbps)	3.88
8DPSK(3Mbps)	3.83

BLE

Mode	Average EIRP Power (dBm)
GFSK(1Mbps)	-1.89

*Note: According to prEN 50663, The available antenna power of this EUT is **12.8** dBm, the power is less than the low-power exclusion level defined (P_{max} : **13** dBm), So bluetooth stand-alone SAR is not required.*



LTE output list

Band	Channel Bandwidth	Modulation	Channel	RB Configure	Result (dBm)	Verdict
Band1	5MHz	QPSK	18025	1RB#0	23.58	PASS
Band1	5MHz	QPSK	18025	1RB#24	23.55	PASS
Band1	5MHz	QPSK	18025	8RB#0	23.68	PASS
Band1	5MHz	QPSK	18025	8RB#17	23.75	PASS
Band1	5MHz	QPSK	18300	1RB#0	23.51	PASS
Band1	5MHz	QPSK	18300	1RB#24	23.50	PASS
Band1	5MHz	QPSK	18300	8RB#0	23.60	PASS
Band1	5MHz	QPSK	18300	8RB#17	23.61	PASS
Band1	5MHz	QPSK	18575	1RB#0	23.49	PASS
Band1	5MHz	QPSK	18575	1RB#24	23.50	PASS
Band1	5MHz	QPSK	18575	8RB#0	23.57	PASS
Band1	5MHz	QPSK	18575	8RB#17	23.55	PASS
Band1	20MHz	QPSK	18100	1RB#0	23.87	PASS
Band1	20MHz	QPSK	18100	1RB#99	23.98	PASS
Band1	20MHz	QPSK	18100	18RB#0	23.69	PASS
Band1	20MHz	QPSK	18100	18RB#82	23.77	PASS
Band1	20MHz	QPSK	18300	1RB#0	23.95	PASS
Band1	20MHz	QPSK	18300	1RB#99	23.81	PASS
Band1	20MHz	QPSK	18300	18RB#0	23.79	PASS
Band1	20MHz	QPSK	18300	18RB#82	23.67	PASS
Band1	20MHz	QPSK	18500	1RB#0	23.79	PASS
Band1	20MHz	QPSK	18500	1RB#99	23.84	PASS
Band1	20MHz	QPSK	18500	18RB#0	23.59	PASS
Band1	20MHz	QPSK	18500	18RB#82	23.50	PASS
Band3	1.4MHz	QPSK	19207	1RB#0	23.68	PASS
Band3	1.4MHz	QPSK	19207	1RB#5	23.73	PASS
Band3	1.4MHz	QPSK	19207	5RB#0	24.01	PASS
Band3	1.4MHz	QPSK	19207	5RB#1	23.96	PASS
Band3	1.4MHz	QPSK	19575	1RB#0	23.97	PASS
Band3	1.4MHz	QPSK	19575	1RB#5	24.02	PASS
Band3	1.4MHz	QPSK	19575	5RB#0	24.33	PASS
Band3	1.4MHz	QPSK	19575	5RB#1	24.27	PASS
Band3	1.4MHz	QPSK	19943	1RB#0	24.13	PASS
Band3	1.4MHz	QPSK	19943	1RB#5	24.17	PASS
Band3	1.4MHz	QPSK	19943	5RB#0	24.36	PASS
Band3	1.4MHz	QPSK	19943	5RB#1	24.31	PASS
Band3	5MHz	QPSK	19225	1RB#0	23.69	PASS
Band3	5MHz	QPSK	19225	1RB#24	23.75	PASS
Band3	5MHz	QPSK	19225	8RB#0	23.81	PASS
Band3	5MHz	QPSK	19225	8RB#17	23.95	PASS
Band3	5MHz	QPSK	19575	1RB#0	24.04	PASS
Band3	5MHz	QPSK	19575	1RB#24	24.11	PASS
Band3	5MHz	QPSK	19575	8RB#0	24.16	PASS
Band3	5MHz	QPSK	19575	8RB#17	24.23	PASS
Band3	5MHz	QPSK	19925	1RB#0	24.03	PASS
Band3	5MHz	QPSK	19925	1RB#24	24.14	PASS
Band3	5MHz	QPSK	19925	8RB#0	24.06	PASS
Band3	5MHz	QPSK	19925	8RB#17	24.09	PASS
Band3	10MHz	QPSK	19250	12RB#0	23.65	PASS
Band3	10MHz	QPSK	19250	12RB#38	23.79	PASS



Band3	10MHz	QPSK	19250	50RB#0	22.66	PASS
Band3	10MHz	QPSK	19575	12RB#0	24.08	PASS
Band3	10MHz	QPSK	19575	12RB#38	24.16	PASS
Band3	10MHz	QPSK	19575	50RB#0	23.08	PASS
Band3	10MHz	QPSK	19900	12RB#0	23.95	PASS
Band3	10MHz	QPSK	19900	12RB#38	23.94	PASS
Band3	10MHz	QPSK	19900	50RB#0	22.91	PASS
Band3	20MHz	QPSK	19300	1RB#0	23.96	PASS
Band3	20MHz	QPSK	19300	1RB#99	24.29	PASS
Band3	20MHz	QPSK	19300	18RB#0	23.67	PASS
Band3	20MHz	QPSK	19300	18RB#82	23.89	PASS
Band3	20MHz	QPSK	19575	1RB#0	24.28	PASS
Band3	20MHz	QPSK	19575	1RB#99	24.46	PASS
Band3	20MHz	QPSK	19575	18RB#0	24.04	PASS
Band3	20MHz	QPSK	19575	18RB#82	24.14	PASS
Band3	20MHz	QPSK	19850	1RB#0	0.00	FAIL
Band3	20MHz	QPSK	19850	1RB#99	0.00	FAIL
Band3	20MHz	QPSK	19850	18RB#0	24.02	PASS
Band3	20MHz	QPSK	19850	18RB#82	23.96	PASS
Band38	5MHz	QPSK	37775	1RB#0	23.16	PASS
Band38	5MHz	QPSK	37775	1RB#24	23.16	PASS
Band38	5MHz	QPSK	37775	8RB#0	23.26	PASS
Band38	5MHz	QPSK	37775	8RB#17	23.29	PASS
Band38	5MHz	QPSK	38000	1RB#0	23.19	PASS
Band38	5MHz	QPSK	38000	1RB#24	23.23	PASS
Band38	5MHz	QPSK	38000	8RB#0	23.25	PASS
Band38	5MHz	QPSK	38000	8RB#17	23.31	PASS
Band38	5MHz	QPSK	38225	1RB#0	23.27	PASS
Band38	5MHz	QPSK	38225	1RB#24	23.26	PASS
Band38	5MHz	QPSK	38225	8RB#0	23.35	PASS
Band38	5MHz	QPSK	38225	8RB#17	23.36	PASS
Band38	20MHz	QPSK	37850	1RB#0	23.32	PASS
Band38	20MHz	QPSK	37850	1RB#99	23.38	PASS
Band38	20MHz	QPSK	37850	18RB#0	23.24	PASS
Band38	20MHz	QPSK	37850	18RB#82	23.29	PASS
Band38	20MHz	QPSK	38000	1RB#0	23.29	PASS
Band38	20MHz	QPSK	38000	1RB#99	23.52	PASS
Band38	20MHz	QPSK	38000	18RB#0	23.28	PASS
Band38	20MHz	QPSK	38000	18RB#82	23.41	PASS
Band38	20MHz	QPSK	38150	1RB#0	23.41	PASS
Band38	20MHz	QPSK	38150	1RB#99	23.53	PASS
Band38	20MHz	QPSK	38150	18RB#0	23.35	PASS
Band38	20MHz	QPSK	38150	18RB#82	23.41	PASS
Band40	5MHz	QPSK	38675	1RB#0	24.21	PASS
Band40	5MHz	QPSK	38675	1RB#24	24.15	PASS
Band40	5MHz	QPSK	38675	8RB#0	24.30	PASS
Band40	5MHz	QPSK	38675	8RB#17	24.29	PASS
Band40	5MHz	QPSK	39150	1RB#0	23.98	PASS
Band40	5MHz	QPSK	39150	1RB#24	23.89	PASS
Band40	5MHz	QPSK	39150	8RB#0	24.08	PASS
Band40	5MHz	QPSK	39150	8RB#17	24.05	PASS
Band40	5MHz	QPSK	39625	1RB#0	23.07	PASS
Band40	5MHz	QPSK	39625	1RB#24	23.08	PASS



Band40	5MHz	QPSK	39625	8RB#0	23.14	PASS
Band40	5MHz	QPSK	39625	8RB#17	23.09	PASS
Band40	20MHz	QPSK	38750	1RB#0	24.36	PASS
Band40	20MHz	QPSK	38750	1RB#99	24.15	PASS
Band40	20MHz	QPSK	38750	18RB#0	24.32	PASS
Band40	20MHz	QPSK	38750	18RB#82	24.13	PASS
Band40	20MHz	QPSK	39150	1RB#0	24.31	PASS
Band40	20MHz	QPSK	39150	1RB#99	23.89	PASS
Band40	20MHz	QPSK	39150	18RB#0	24.18	PASS
Band40	20MHz	QPSK	39150	18RB#82	23.83	PASS
Band40	20MHz	QPSK	39550	1RB#0	23.37	PASS
Band40	20MHz	QPSK	39550	1RB#99	23.10	PASS
Band40	20MHz	QPSK	39550	18RB#0	23.34	PASS
Band40	20MHz	QPSK	39550	18RB#82	22.98	PASS



10. Test Photos And Results

10.1 EUT Photos





Left side

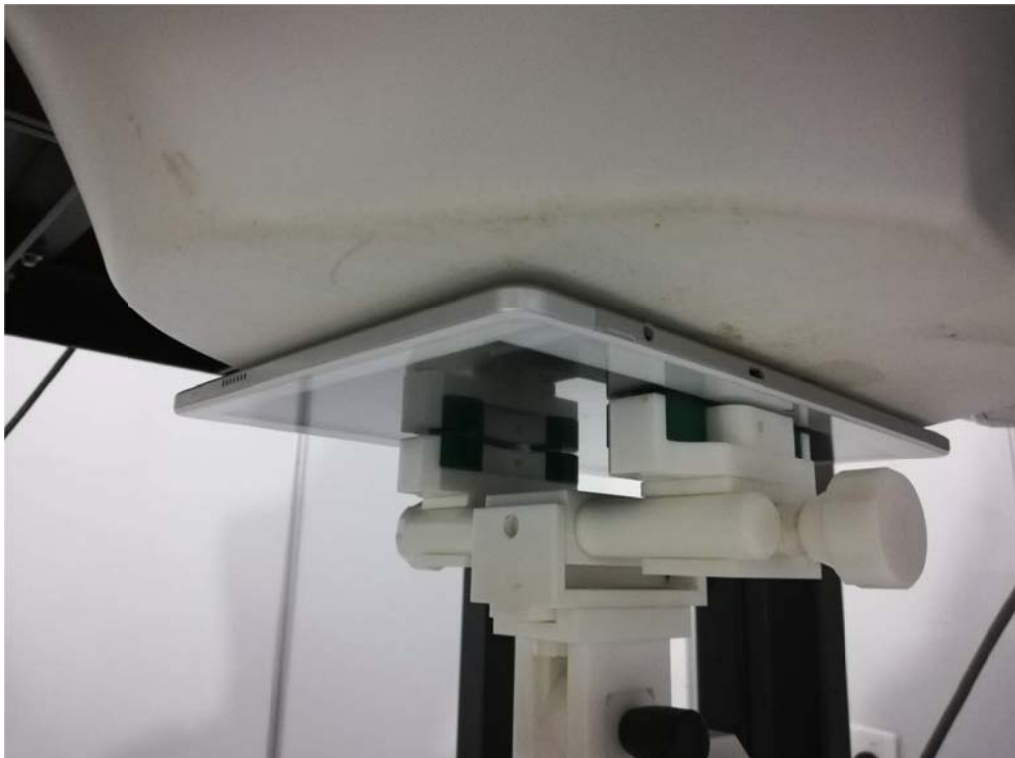


10.2 Setup Photos

Body Front side



Body Back side



Body Right side



Body Left side



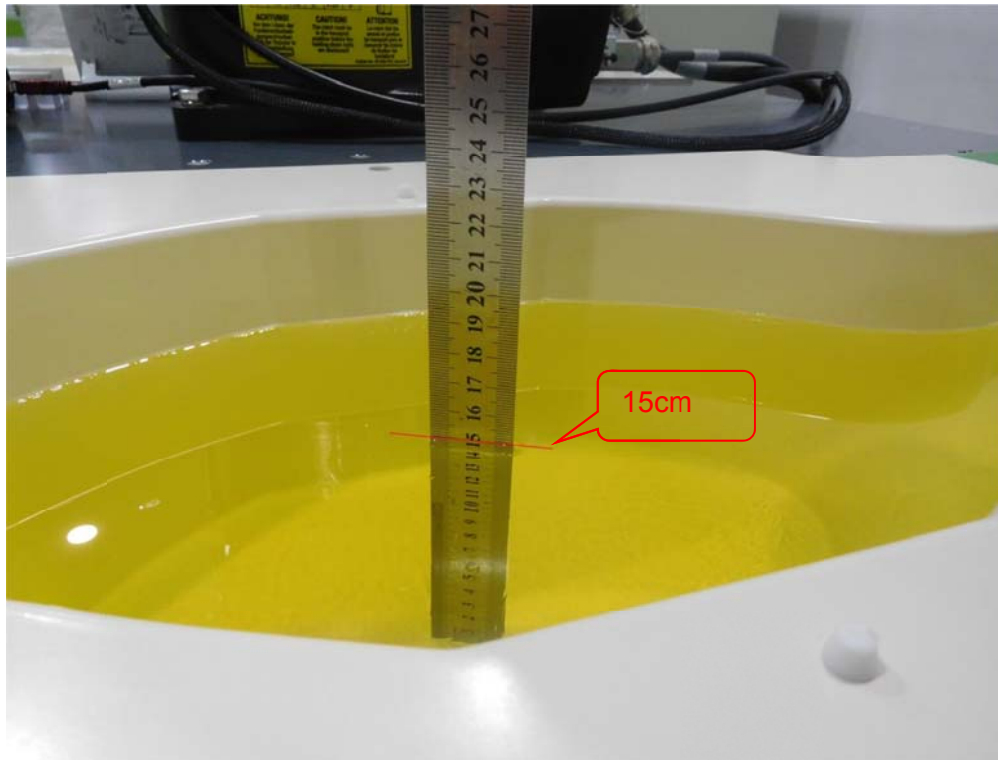
Body Top side



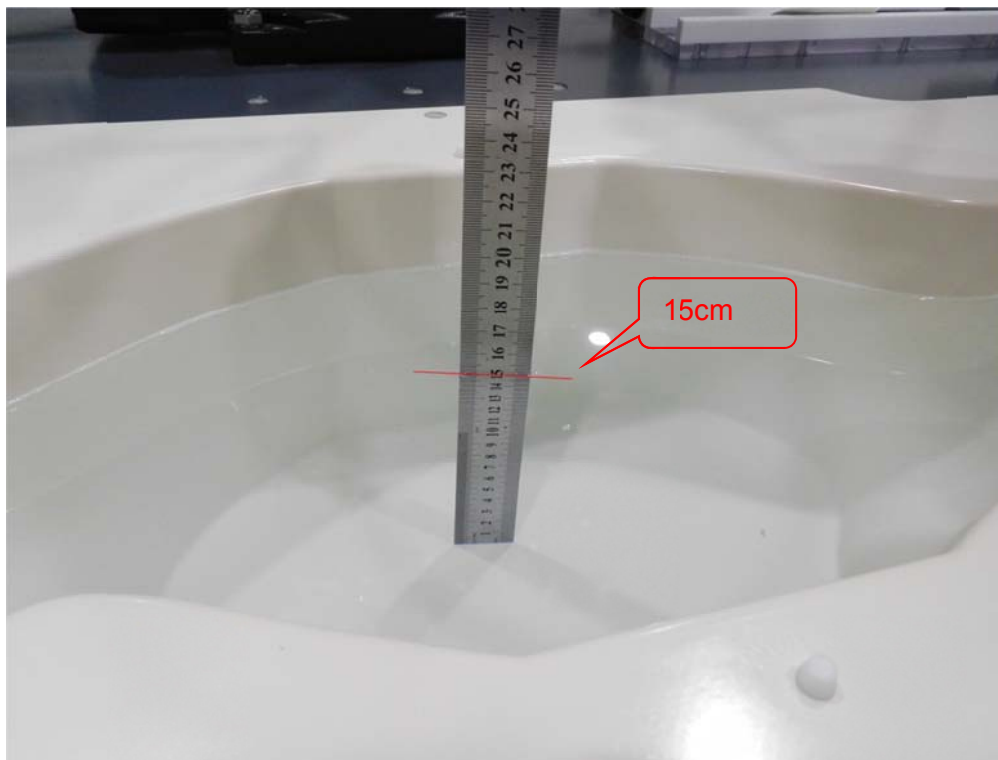
Body Bottom side



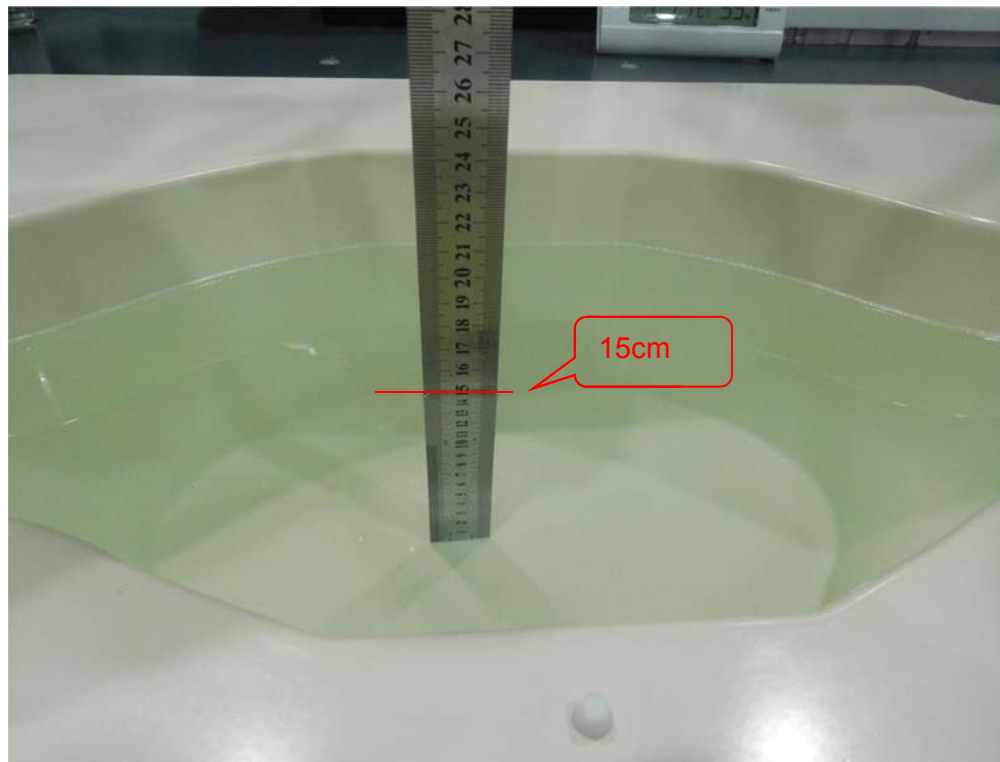
900 Body liquid depth (15 cm)



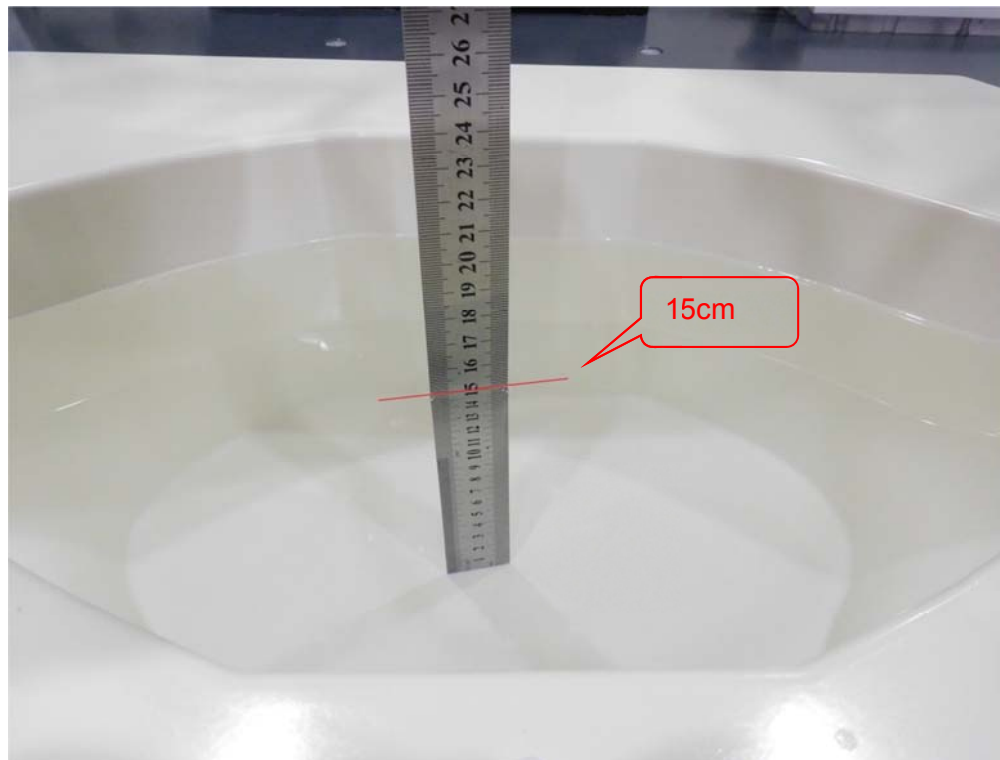
1800 Body liquid depth (15 cm)



1900 Body liquid depth (15 cm)



2450 Body liquid depth (15 cm)



2600 Body liquid depth (15 cm)





11. SAR Result Summary

Body: (0mm between DUT and Phantom)

Test Case of Body				Freq. (MHz)	Power Drift(%)	SAR (10g) (W/kg)	Me a. No.
Band	Model	Test Position	Channel				
GSM 900	GPRS Data-4 Slot	Body Front	CH 60	902.0	3.18	0.365	-
		Body Back	CH 60	902.0	0.78	0.768	1
		Left side	CH 60	902.0	0.07	0.033	-
		Right side	CH 60	902.0	-0.55	0.037	-
		Top Side	CH 60	902.0	0.21	0.091	-
		Bottom Side	CH 60	902.0	3.38	0.231	-
		Body Back	CH 975	880.2	0.78	0.693	-
		Body Back	CH 124	914.8	0.78	0.725	-
GSM 1800	GPRS Data-4 Slot	Body Front	CH 698	1747.4	0.06	0.357	-
		Body Back	CH 698	1747.4	3.42	0.712	2
		Left side	CH 698	1747.4	-2.71	0.015	-
		Right side	CH 698	1747.4	2.21	0.025	-
		Top side	CH 698	1747.4	1.32	0.417	-
		Bottom side	CH 698	1747.4	1.69	0.421	-
		Body Back	CH 512	1710.2	3.42	0.658	-
		Body Back	CH 885	1784.8	3.42	0.663	-
WCDMA Band I	RMC	Body Front	CH 9750	1950.0	-3.79	0.211	-
		Body Back	CH 9750	1950.0	-2.92	0.436	3
		Left side	CH 9750	1950.0	3.67	0.393	-
		Right side	CH 9750	1950.0	0.64	0.092	-
		Top side	CH 9750	1950.0	-0.37	0.102	-
		Bottom side	CH 9750	1950.0	0.96	0.111	-
		Body Back	CH 9612	1922.4	-2.92	0.396	-
		Body Back	CH 9888	1977.6	-2.92	0.387	-
LTE Band 1	20MHz 1RB Offset 0	Body Front	CH18300	1950.0	3.05	0.208	-
		Body Back	CH18300	1950.0	3.81	0.423	4
		Left side	CH18300	1950.0	-0.27	0.345	-
		Right side	CH18300	1950.0	3.83	0.211	-
		Top side	CH18300	1950.0	0.09	0.074	-
		Bottom side	CH18300	1950.0	-0.47	0.082	-
		Body Back	CH 18100	1930.0	3.81	0.411	-
		Body Back	CH 18500	1970.0	3.81	0.398	-
LTE Band 3	20MHz 1RB Offset 0	Body Front	CH19575	1747.5	1.05	0.285	-
		Body Back	CH19575	1747.5	0.46	0.592	5
		Left side	CH19575	1747.5	1.77	0.312	-
		Right side	CH19575	1747.5	-2.52	0.529	-



		Top side	CH19575	1747.5	0.18	0.018	-
		Bottom side	CH19575	1747.5	-2.22	0.053	-
		Body Back	CH19300	1720.0	0.46	0.493	-
		Body Back	CH19850	1775.0	0.46	0.515	-
LTE Band 38	20MHz 1RB Offset 0	Body Front	CH38000	2595	2.43	0.157	-
		Body Back	CH38000	2595	1.69	0.303	6
		Left side	CH38000	2595	-2.44	0.243	-
		Right side	CH38000	2595	-0.84	0.029	-
		Top side	CH38000	2595	0.97	0.053	-
		Bottom side	CH38000	2595	-0.05	0.190	-
		Body Back	CH37850	2580	1.69	0.269	-
		Body Back	CH38150	2610	1.69	0.301	-
LTE Band 40	20MHz 1RB Offset 0	Body Front	CH39150	2350	0.32	0.224	-
		Body Back	CH39150	2350	-1.54	0.435	7
		Left side	CH39150	2350	2.83	0.089	-
		Right side	CH39150	2350	3.01	0.138	-
		Top side	CH39150	2350	-0.53	0.028	-
		Bottom side	CH39150	2350	-0.39	0.035	-
		Body Back	CH38750	2310	-1.54	0.396	-
		Body Back	CH39550	2390	-1.54	0.374	-
2.4GHz WLAN	802.11b	Body Front	CH 7	2442	-1.57	0.078	-
		Body Back	CH 7	2442	1.56	0.115	8

Note:

- Two SIM card slot can't work at the same time.
- When the 10g SAR is $\leq 1.0W/kg$, testing for low and high channel is optional.

Band	Model	Test Position	Gap (mm)	Channel	SAR (10g) (W/kg)	Combined SAR (10g) (W/kg)
GSM 900	GPRS Data-4 Slot	Body Back	0	CH 60	0.768	0.883
2.4GHz WLAN	802.11b	Body Back	0	CH 7	0.115	

**Simultaneous Multi-band Transmission Evaluation:**

Application Simultaneous Transmission information:

Position	Simultaneous state
Head	1. GSM + BT
	2. WCDMA + BT
	3. LTE + BT
Body	1. GSM + BT
	2. WCDMA + BT
	3. LTE + BT

NOTE:

1. Bluetooth and 2.4GHz WLAN can't simultaneous transmission at the same time.
2. 2.4GHz WLAN and 5GHz WLAN can't simultaneous transmission at the same time.
3. For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state.
4. The reported SAR summation is calculated based on the same configuration and test position.
5. DUT will choose either 2G/3G/4G according to the network signal condition, therefore, 2G/3G/4G will not transmit simultaneously.
6. Multi-band transmission analysis for Body SAR is performed following EN 62209-2 procedure. One way of determining the threshold power level available to the secondary transmitter ($P_{\text{available}}$) is to calculate it from the measured peak spatial-average SAR of the primary transmitter (SAR_1) according to the equation:

$$P_{\text{available}} = P_{\text{th},m} * (\text{SAR}_{\text{lim}} - \text{SAR}_1) / \text{SAR}_{\text{lim}}$$

where :

$P_{\text{th},m}$ is the threshold exclusion power level taken from Annex B of IEC 62479⁷ for the frequency of the secondary transmitter at the separation distance used in the testing .

If the output power of the secondary transmitter is less than $P_{\text{available}}$. SAR measurement for the secondary transmitter is not necessary.



Simultaneous Mode	Position	SAR ₁	secondary transmitter Maximum Average Power		Separation distance (mm)	$P_{available}$	Result
			dBm	mW			
GSM + BT	Body	0.768	6.28	4.246	5	12.320	No
WCDMA + BT	Body	0.436	6.28	4.246	5	15.640	No
LTE + BT	Body	0.592	5.02	3.177	5	14.080	No

Note:

The "No" is represent that SAR measurement for the secondary transmitter is not necessary.

The "Yes" is represent that SAR measurement for the secondary transmitter is necessary.



12. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
900MHz Dipole	MVG	SID900	SN 30/14 DIP0G900-328	2017.08.15	2020.08.14
1800MHz Dipole	MVG	SID1800	SN 30/14 DIP1G800-329	2017.08.15	2020.08.14
1900MHz Dipole	MVG	SID1900	SN 30/14 DIP1G900-333	2017.08.15	2020.08.14
2450MHz Dipole	MVG	SID2450	SN 30/14 DIP2G450-335	2017.08.15	2020.08.14
2600MHz Dipole	MVG	SID2600	SN 30/14 DIP2G600-336	2017.08.15	2020.08.14
E-Field Probe	MVG	SSE5	SN 14/16 EP309	2017.12.15	2018.12.14
Dielectric Probe Kit	MVG	SCLMP	SN 32/14 OCPG67	2017.12.03	2018.12.02
Antenna	MVG	ANTA3	SN 07/13 ZNTA52	N/A	N/A
Phantom1	MVG	SAM	SN 32/14 SAM115	2014.09.01	N/A
Phantom2	MVG	SAM	SN 32/14 SAM116	2014.09.01	N/A
Phone holder	MVG	N/A	SN 32/14 MSH97	2014.09.01	N/A
Laptop holder	MVG	N/A	SN 32/14 LSH29	2014.09.01	N/A
Network Analyzer	Agilent	8753ES	US38432810	2018.03.08	2019.03.07
Multi Meter	Keithley	Multi Meter 2000	4050073	2017.10.15	2018.10.14
Signal Generator	Agilent	N5182A	MY50140530	2017.10.15	2018.10.14
Wireless Communication Test Set	Agilent	8960-E5515C	MY48360751	2017.10.15	2018.10.14
Wireless Communication Test Set	R&S	CMW500	117239	2017.10.15	2018.10.14
Power Amplifier	DESAY	ZHL-42W	9638	2017.10.15	2018.10.14
Power Meter	R&S	NRP	100510	2017.10.15	2018.10.14
Power Meter	Agilent	E4418B	GB43312526	2017.10.15	2018.10.14
Power Sensor	R&S	NRP-Z11	101919	2017.10.15	2018.10.14
Power Sensor	Agilent	E9301A	MY41497725	2017.10.15	2018.10.14
9dB Attenuator	Agilent	99899	DC-18GHz	2018.05.10	2019.05.09
11dB Attenuator	Agilent	8494B	DC-18GHz	2018.05.10	2019.05.09
110dB Attenuator	Agilent	8494B	DC-18GHz	2018.05.10	2019.05.09
Directional coupler	Narda	4226-20	3305	2017.10.15	2018.10.14
hygrothermograph	MiEO	HH660	N/A	2017.10.18	2018.10.17
Thermograph	Elitech	RC-4	S/N EF7176501537	2017.11.10	2018.11.09



Appendix A. System Validation Plots

System Performance Check Data(900MHz)

Type: Phone measurement (Complete)

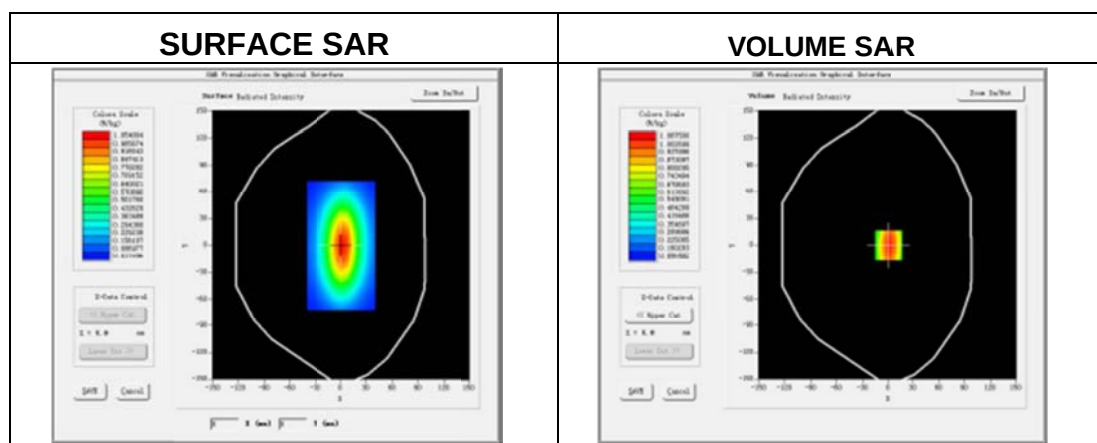
Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 20190825

Experimental conditions.

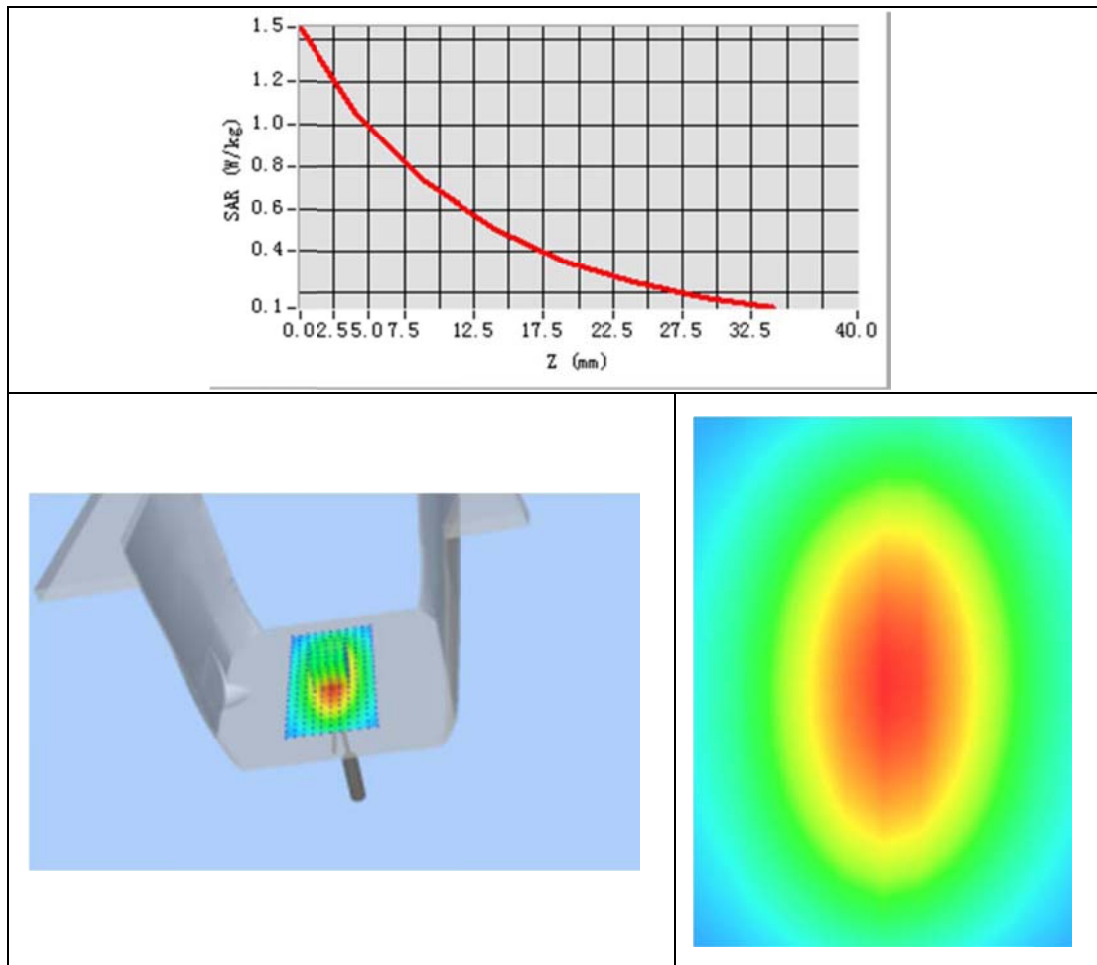
Phantom	Validation plane
Device Position	-
Band	900MHz
Channels	-
Signal	CW
Frequency (MHz)	900MHz
Relative permittivity	40.01
Conductivity (S/m)	0.95
Power drift (%)	2.30
Probe	SN 14/16 EP309
ConvF	5.44
Crest factor:	1:1



Maximum location: X=7.00, Y=-1.00

SAR 10g (W/Kg)	0.646702
SAR 1g (W/Kg)	1.089023

Z Axis Scan





System Performance Check Data(1800MHz)

Type: Phone measurement (Complete)

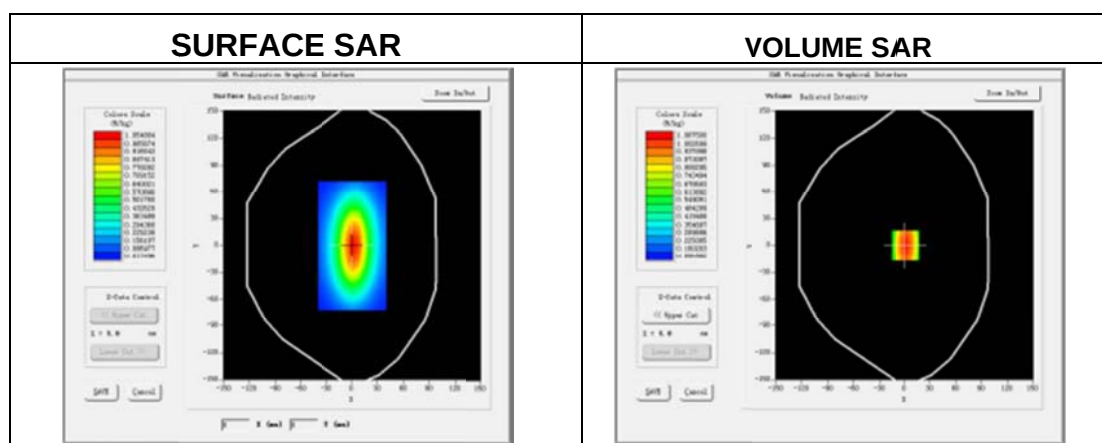
Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 20190826

Experimental conditions.

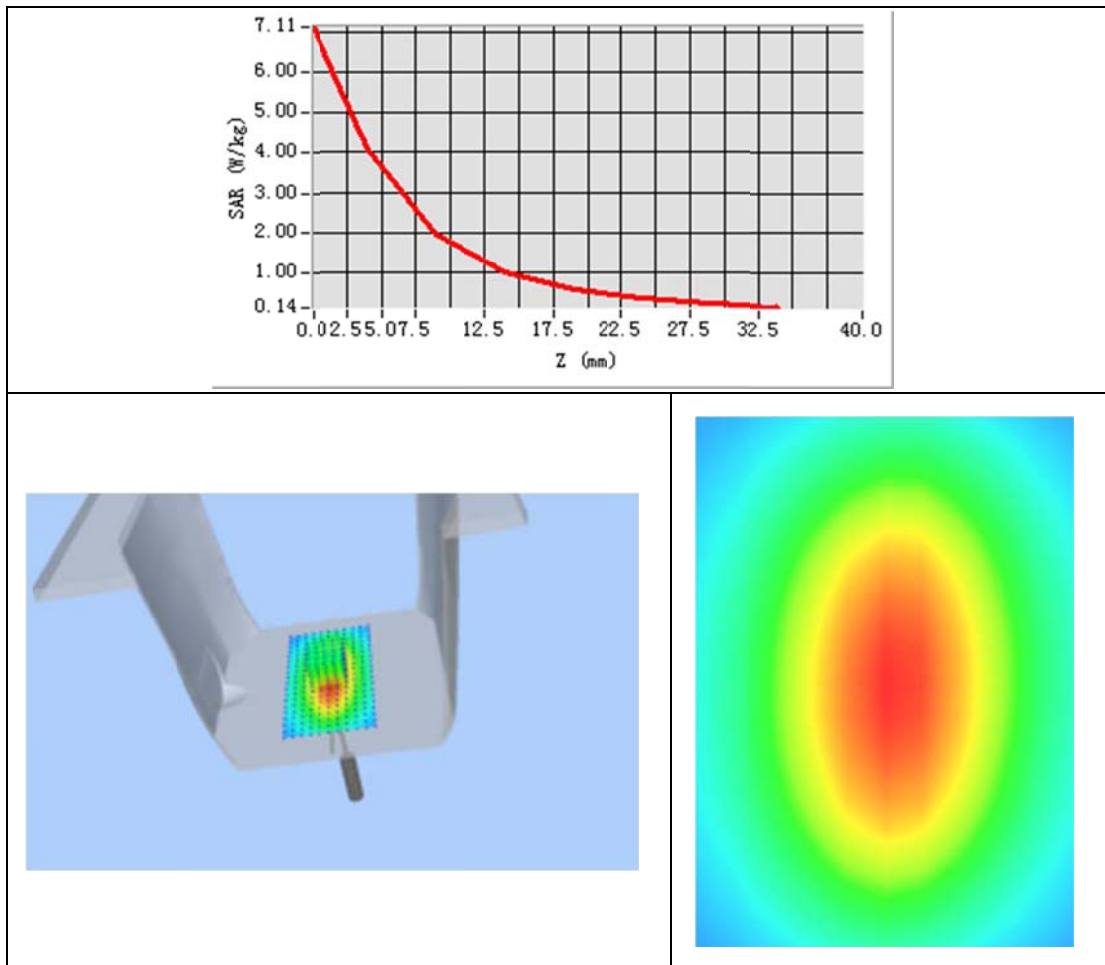
Phantom	Validation plane
Device Position	-
Band	1800MHz
Channels	-
Signal	CW
Frequency (MHz)	1800MHz
Relative permittivity	41.21
Conductivity (S/m)	1.36
Power drift (%)	-1.39
Probe	SN 14/16 EP309
ConvF	4.69
Crest factor:	1:1



Maximum location: X=7.00, Y=-1.00

SAR 10g (W/Kg)	2.041709
SAR 1g (W/Kg)	3.893655

Z Axis Scan





System Performance Check Data(1900MHz)

Type: Phone measurement (Complete)

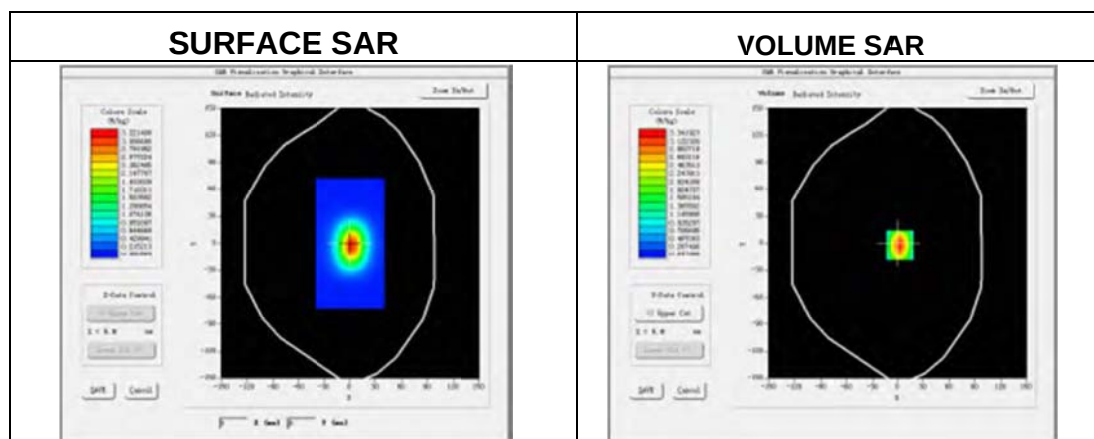
Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 20190827

Experimental conditions.

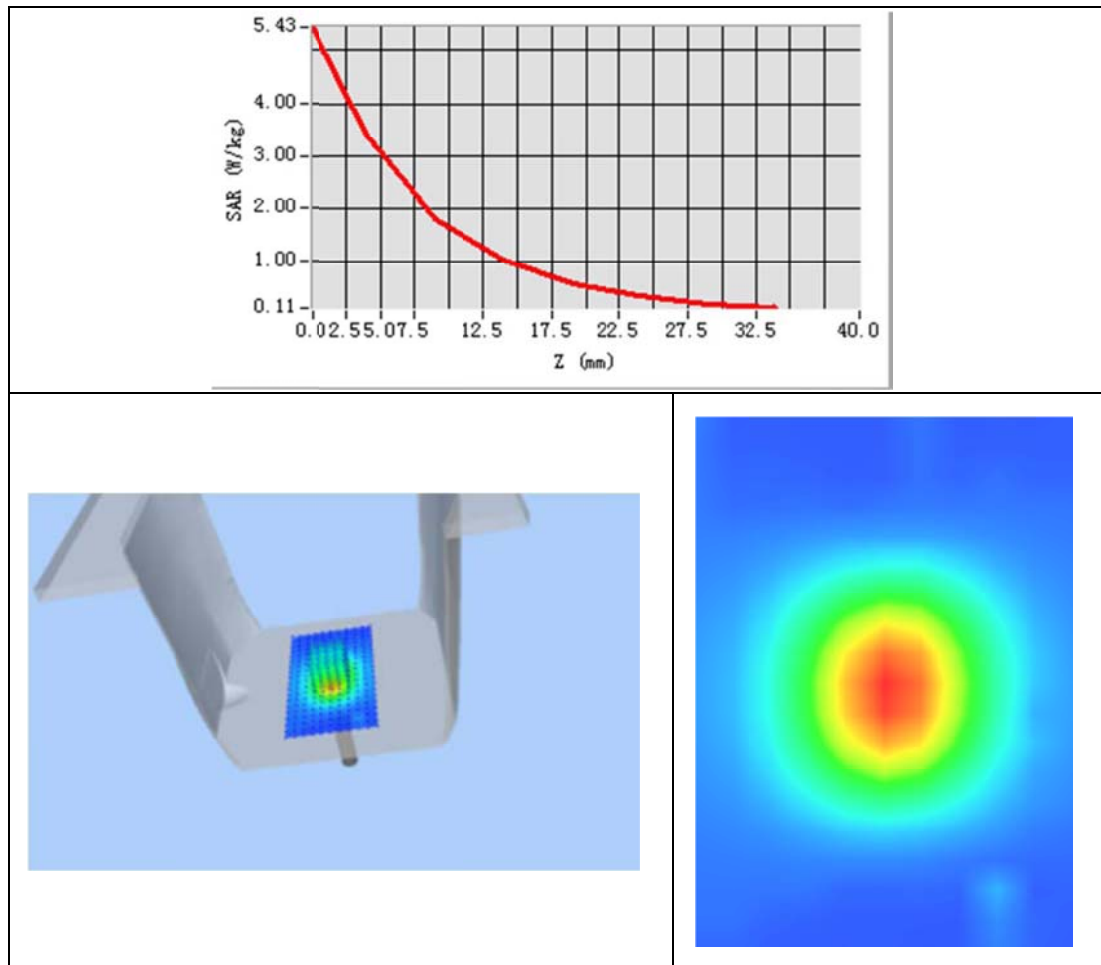
Device Position	Validation plane
Band	1900MHz
Channels	-
Signal	CW
Frequency (MHz)	1900
Relative permittivity	39.41
Conductivity (S/m)	1.41
Power drift (%)	-0.17
Probe	SN 14/16 EP309
ConvF	5.46
Crest factor:	1:2



Maximum location: X=2.00, Y=2.00

SAR 10g (W/Kg)	2.085293
SAR 1g (W/Kg)	4.061984

Z Axis Scan





System Performance Check Data(2450MHz)

Type: Phone measurement (Complete)

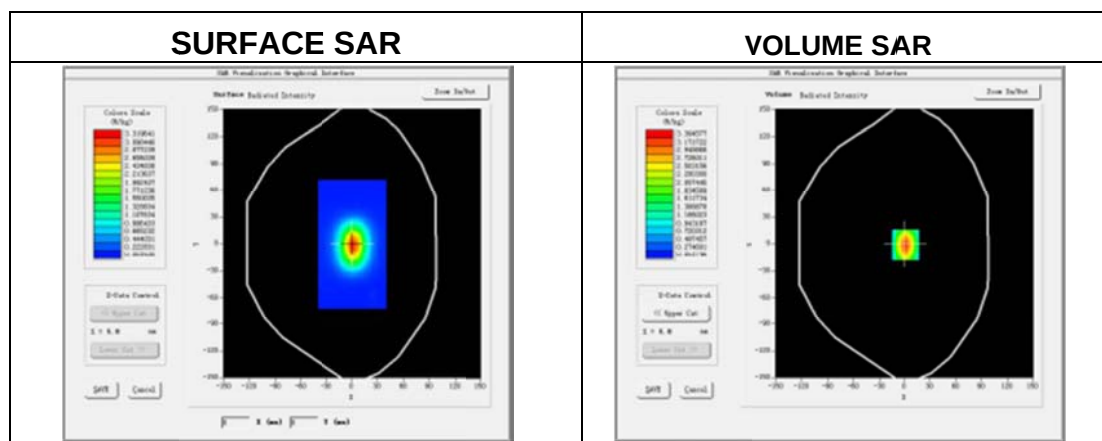
Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 20190828

Experimental conditions.

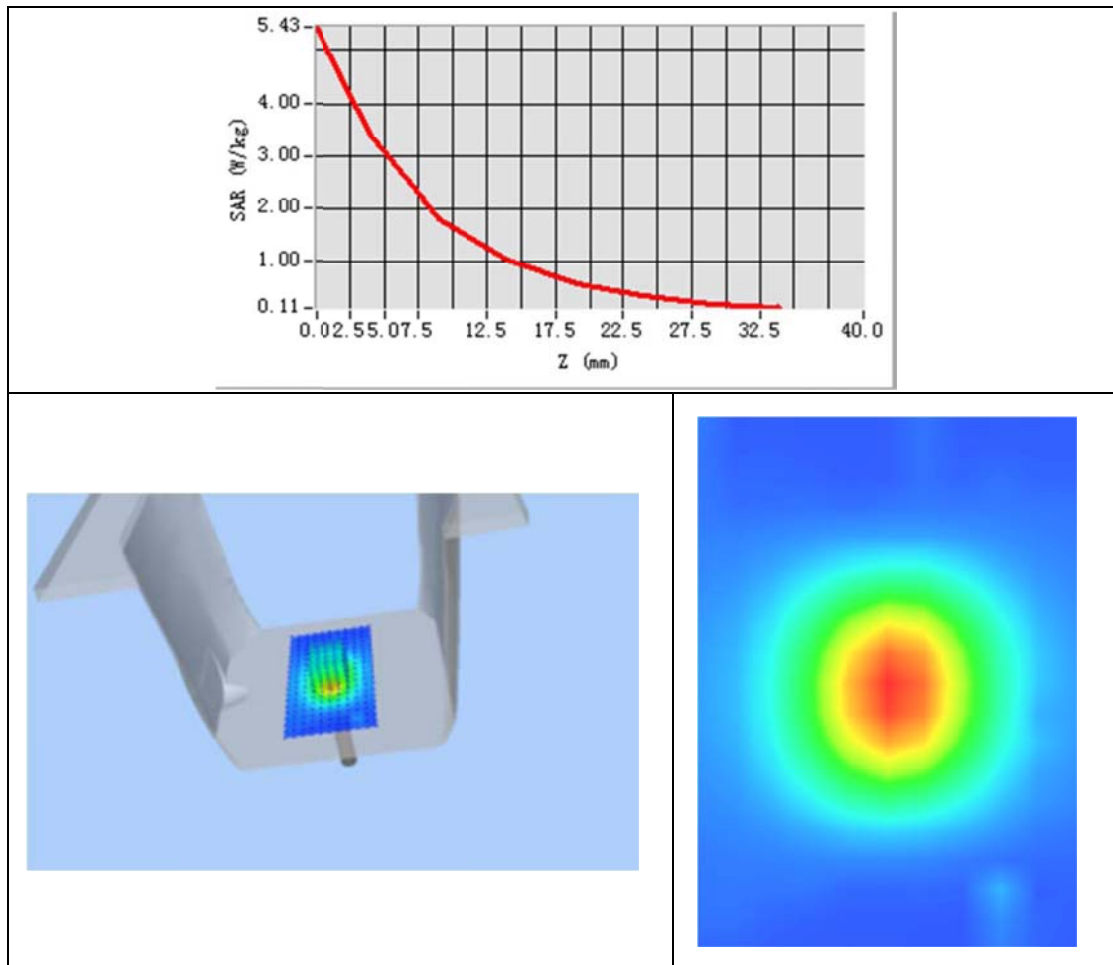
Device Position	Validation plane
Band	2450 MHz
Channels	-
Signal	CW
Frequency (MHz)	2450
Relative permittivity	38.78
Conductivity (S/m)	1.81
Power drift (%)	-1.20
Probe	SN 14/16 EP309
ConvF	5.09
Crest factor:	1:1



Maximum location: X=3.00, Y=1.00

SAR 10g (W/Kg)	2.448296
SAR 1g (W/Kg)	5.281008

Z Axis Scan





System Performance Check Data(2600MHz)

Type: Phone measurement (Complete)

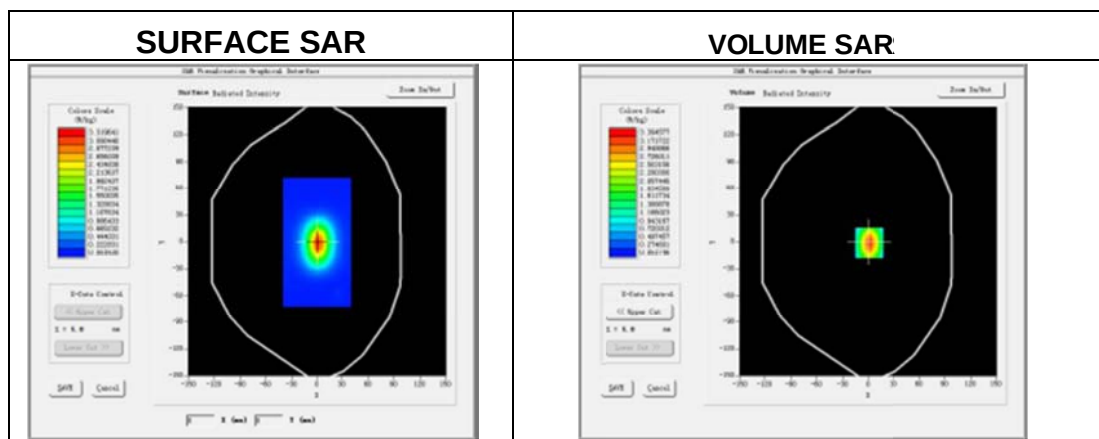
Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2019-08-28

Experimental conditions.

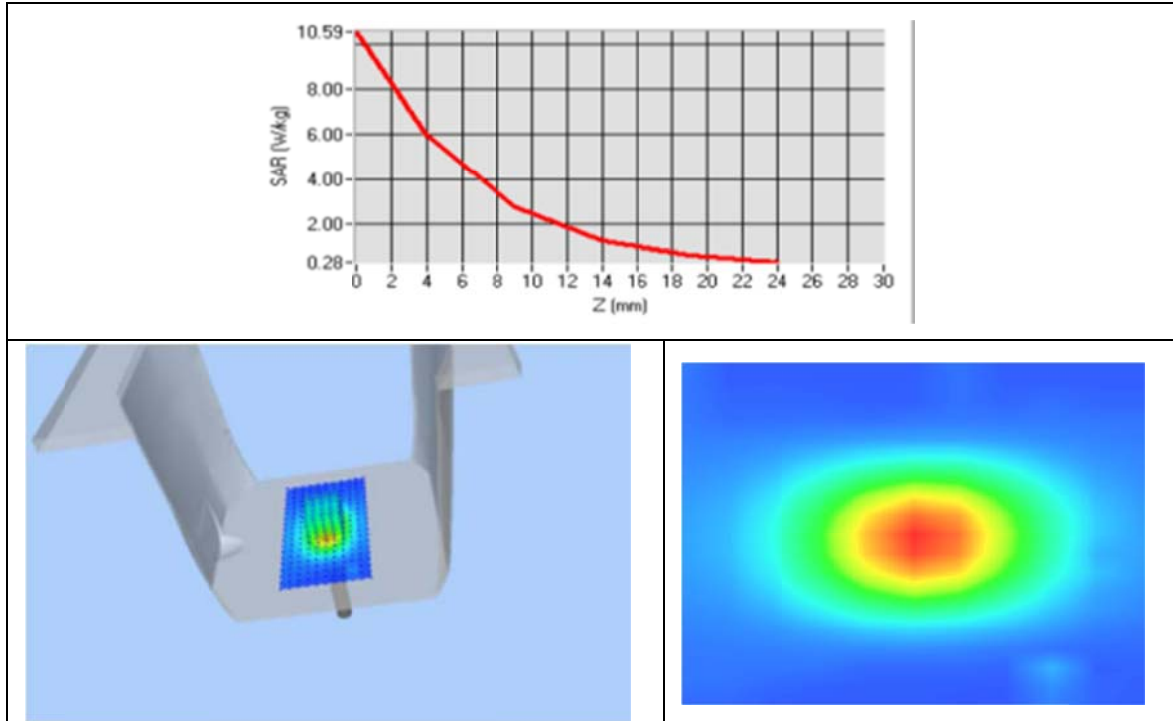
Device Position	Validation plane
Band	2600 MHz
Channels	-
Signal	CW
Frequency (MHz)	2600
Relative permittivity	38.85
Conductivity (S/m)	1.91
Power drift (%)	-0.26
Probe	SN 14/16 EP309
ConvF	4.96
Crest factor:	1:1



Maximum location: X=3.00, Y=1.00

SAR 10g (W/Kg)	2.364114
SAR 1g (W/Kg)	5.355473

Z Axis Scan



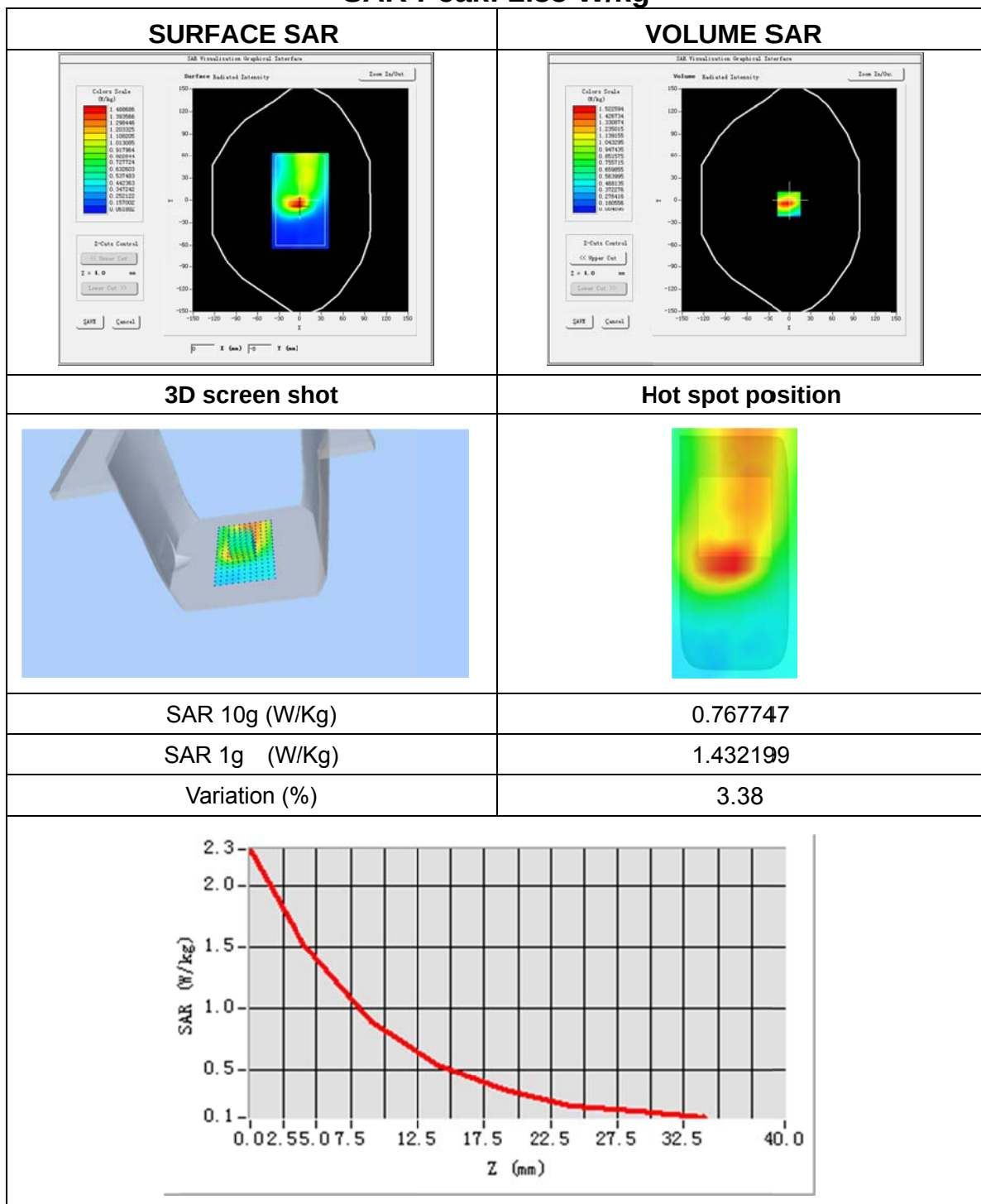
Appendix B. SAR Test Plots

Plot 1: DUT: tablet pc; EUT Model: C11

Test Date	2018-07-26
Device Position	Body Back
Band	GPRS 900
Channels	Middle

Maximum location: X=-1.00, Y=-5.00

SAR Peak: 2.35 W/kg

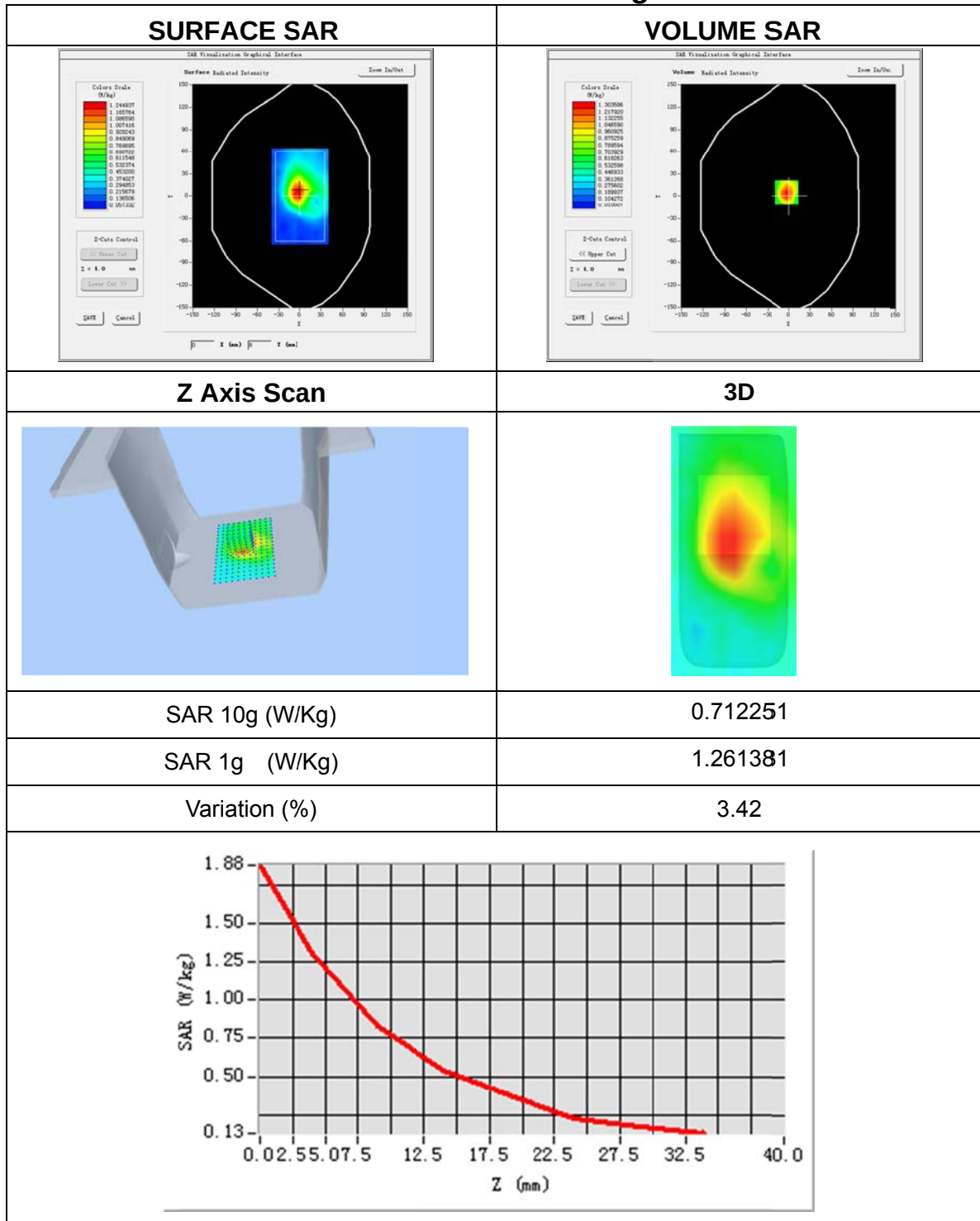


Plot 2: DUT: tablet pc; EUT Model: C11

Test Date	2018-07-27
Device Position	Body Back
Band	GPRS 1800
Channels	Middle

Maximum location: X=-3.00, Y=5.00

SAR Peak: 2.00 W/kg

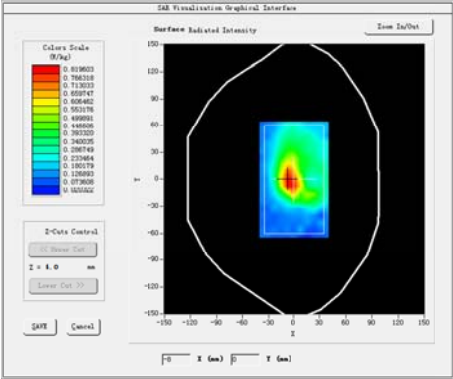
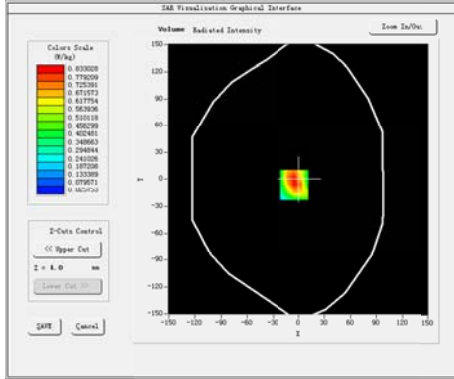
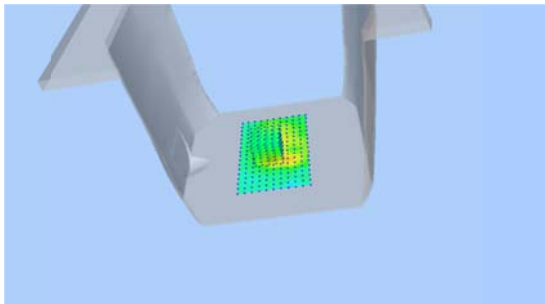
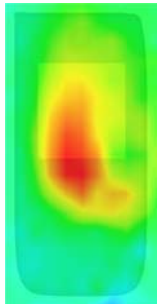
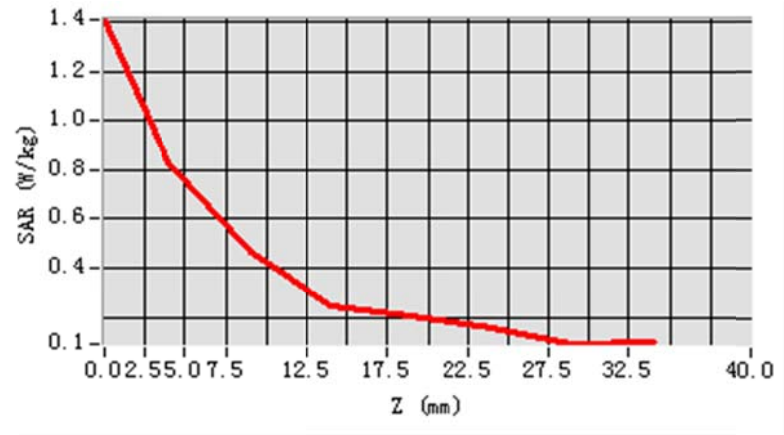


Plot 3: DUT: tablet pc; EUT Model: C11

Test Date	2018-07-27
Device Position	Body Back
Band	WCDMA I
Channels	Middle

Maximum location: X=-5.00, Y=-6.00

SAR Peak: 1.44 W/kg

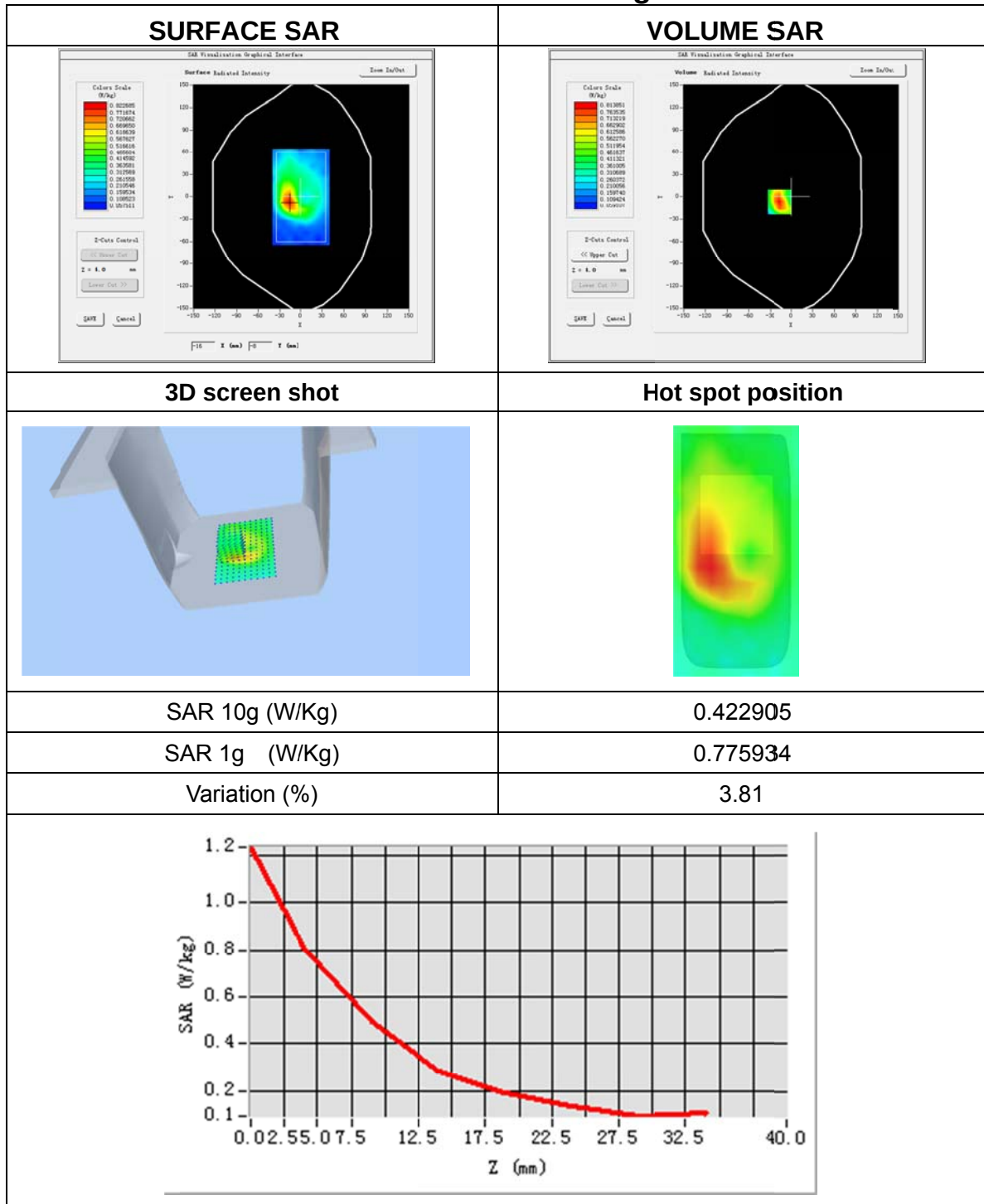
SURFACE SAR	VOLUME SAR
	
3D screen shot	Hot spot position
	
SAR 10g (W/Kg)	0.436286
SAR 1g (W/Kg)	0.811409
Variation (%)	-2.92
	

Plot 4: DUT: tablet pc; EUT Model: C11

Test Date	2018-07-27
Device Position	Body Back
Band	LTE Band 1
Channels	Middle

Maximum location: X=-17.00, Y=-7.00

SAR Peak: 1.27 W/kg

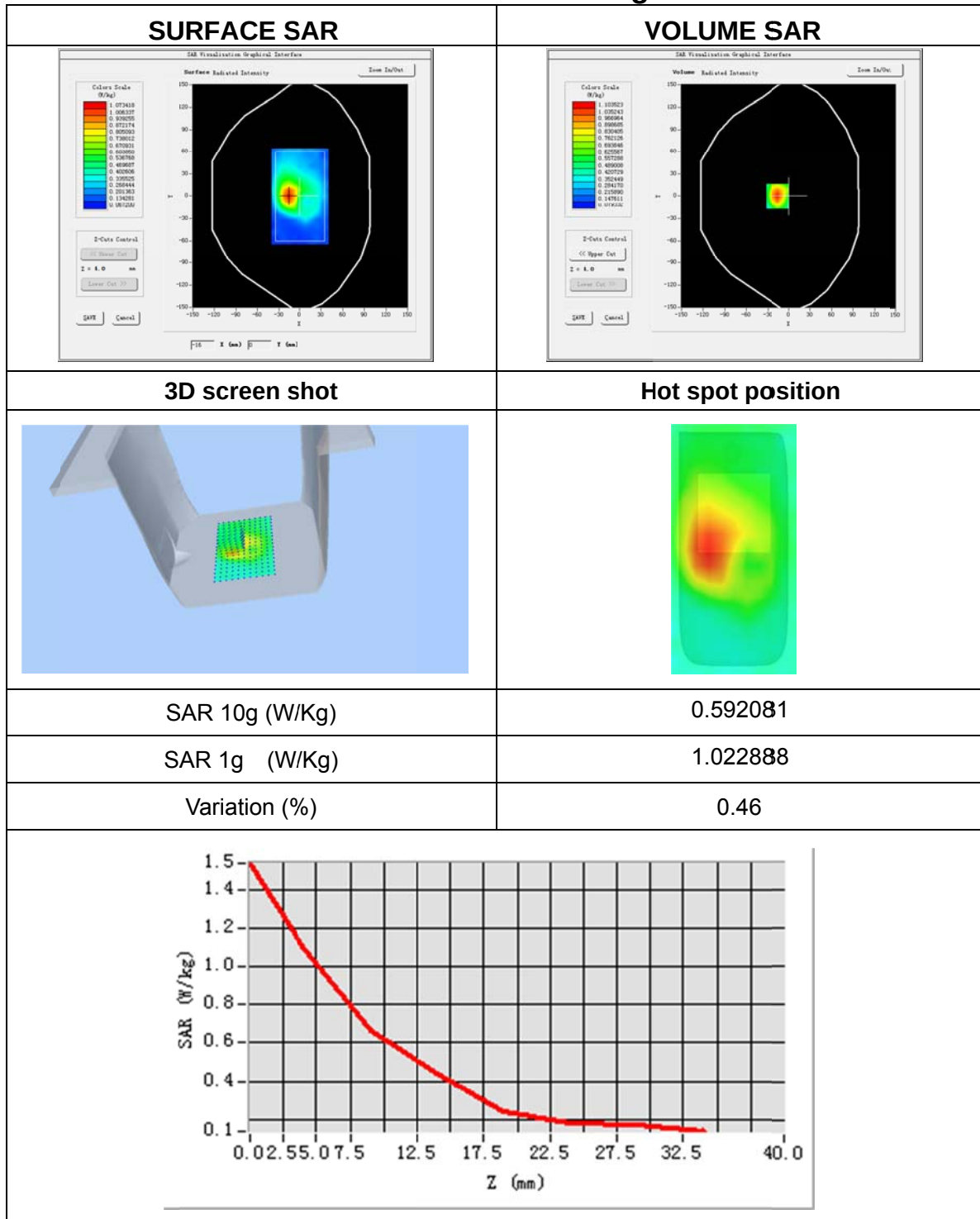


Plot 5: DUT: tablet pc; EUT Model: C11

Test Date	2018-07-27
Device Position	Body Back
Band	LTE Band 3
Channels	Middle

Maximum location: X=-16.00, Y=0.00

SAR Peak: 1.58 W/kg

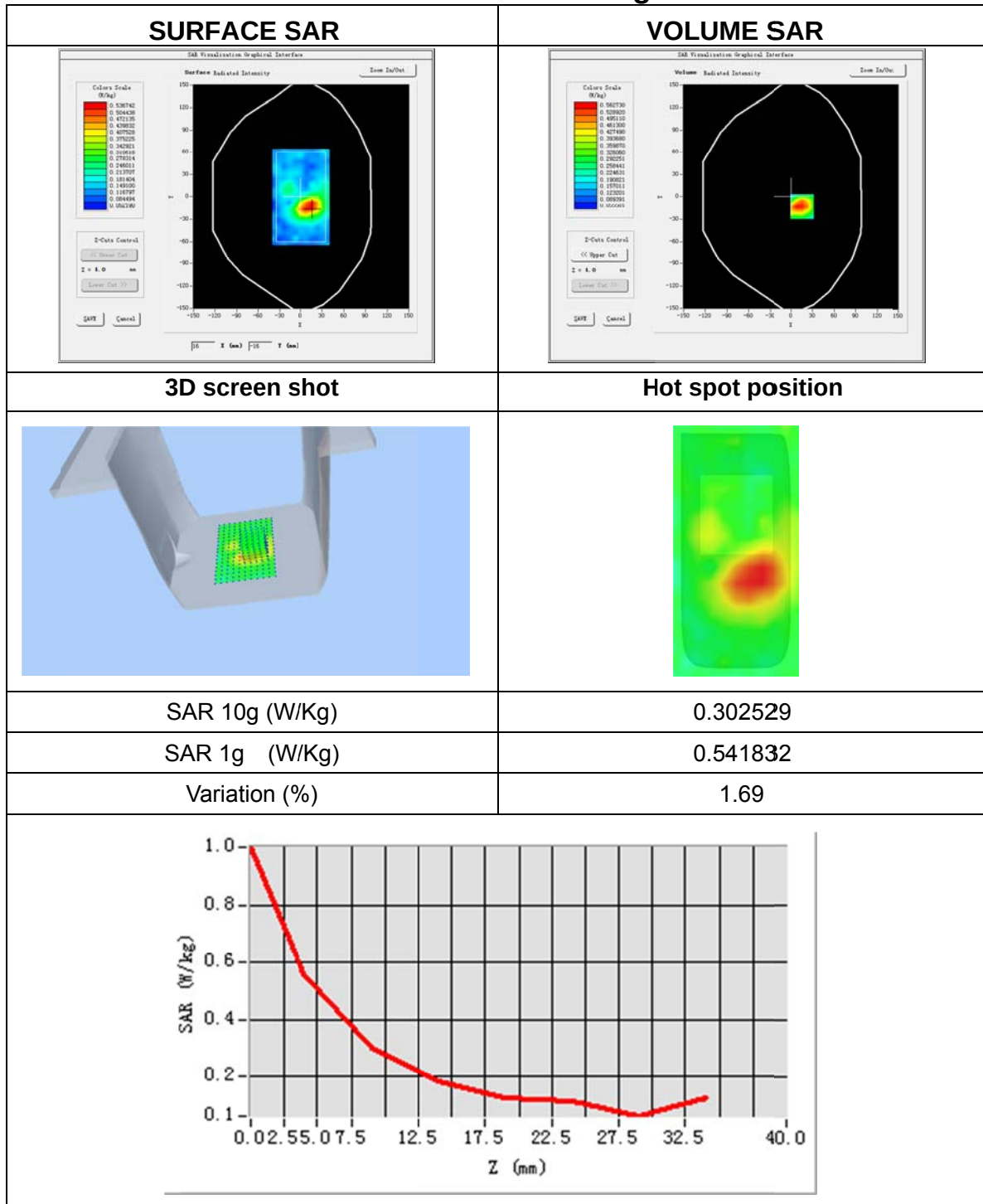


Plot 6: DUT: tablet pc; EUT Model: C11

Test Date	2018-07-28
Device Position	Body Back
Band	LTE Band 38
Channels	Middle

Maximum location: X=15.00, Y=-13.00

SAR Peak: 0.95 W/kg

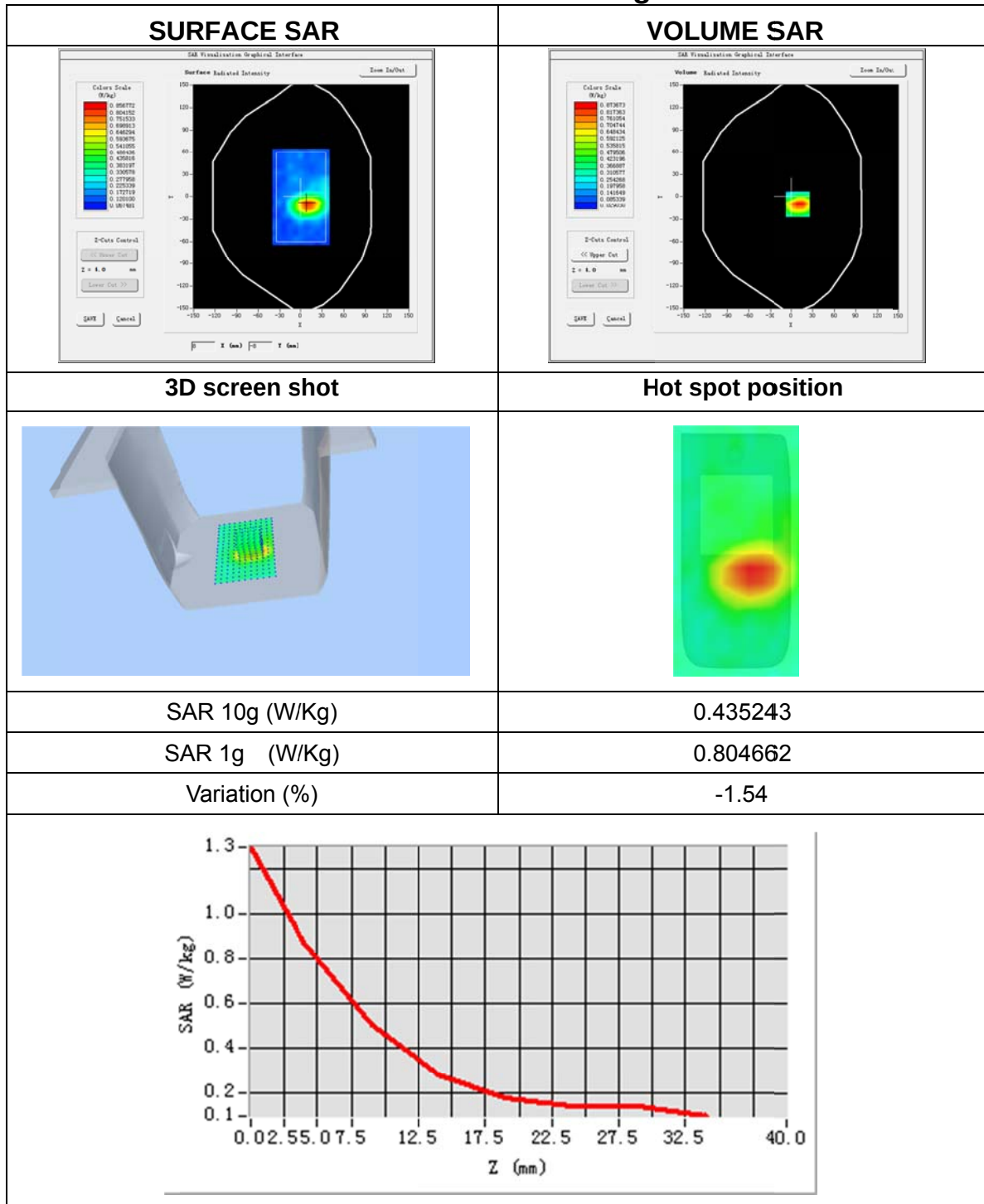


Plot 7: DUT: tablet pc; EUT Model: C11

Test Date	2018-07-28
Device Position	Body Back
Band	LTE Band 40
Channels	Middle

Maximum location: X=9.00, Y=-10.00

SAR Peak: 1.33 W/kg

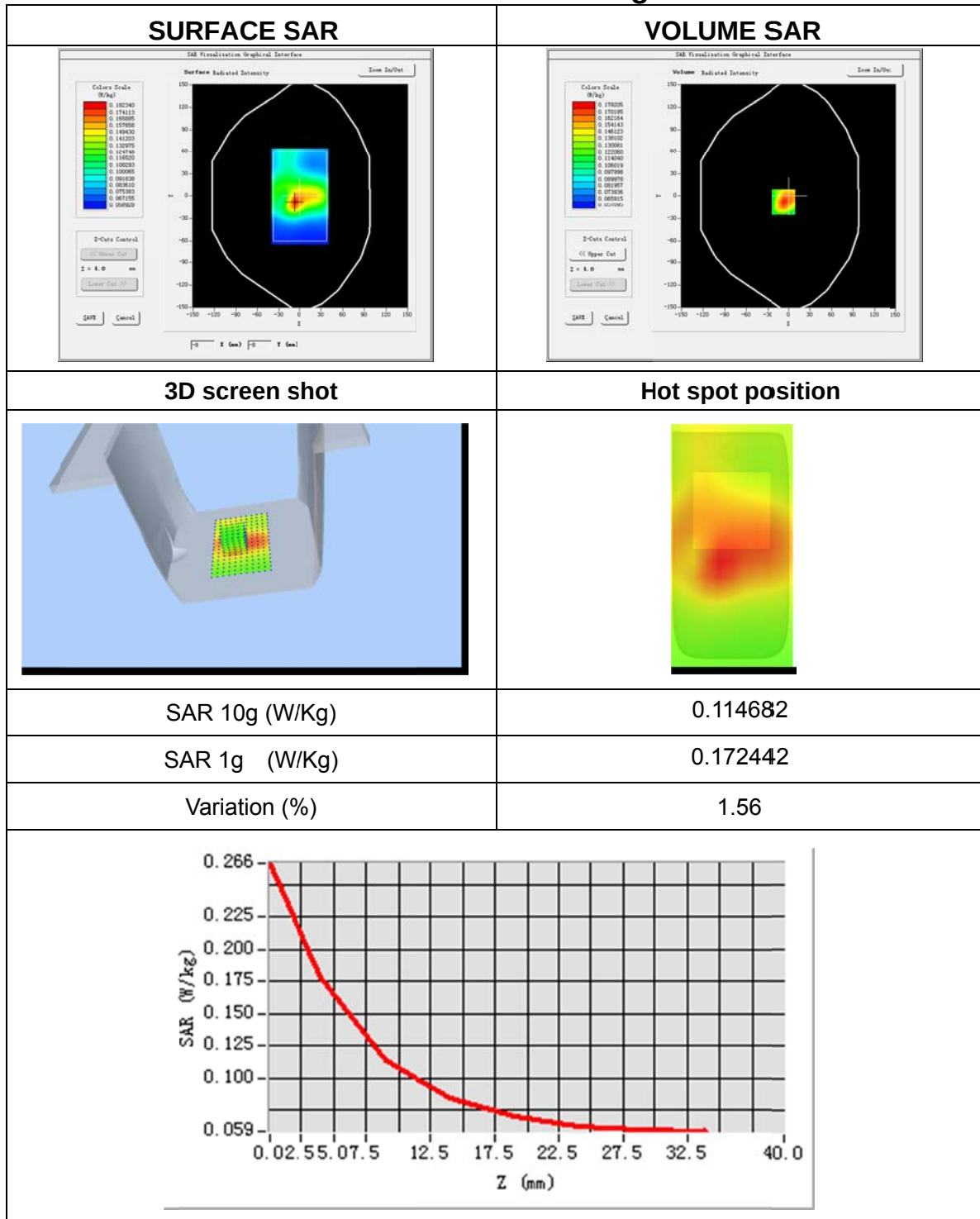


Plot 8: DUT: tablet pc; EUT Model: C11

Test Date	2018-07-28
Device Position	Body Back
Band	IEEE 802.11b ISM
Channels	Middle

Maximum location: X=-7.00, Y=-8.00

SAR Peak: 0.26 W/kg





Appendix C. Probe Calibration And Dipole Calibration Report

Refer the appendix Calibration Report.

*****END OF THE REPORT*****