



SATIMO 225, rue Pierre Rivoalon 29200 Brest - France  
Tel:+33 (0)2 98 05 13 34; Fax: +33 (0)2 98 05 53 87; [www.satimo.com](http://www.satimo.com)

	<b>Annex B: Measurement Results</b>
	<b>Project Name : X555</b>
	<b>Report Number:</b>
	<b>FCC16083918A-6</b>

# MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 19/8/2016

Measurement duration: 9 minutes 37 seconds

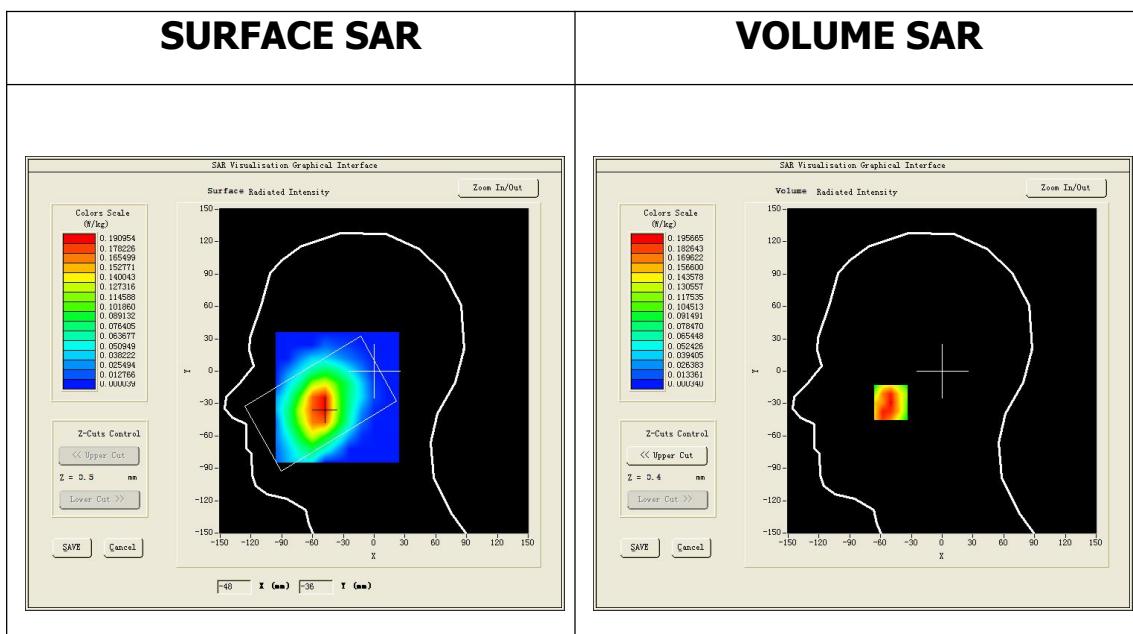
## A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>CUSTOM (GPRS850 4Tx)</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>Duty Cycle: 2.00 (Crest factor: 2.0)</u>
<u>Conversion factor</u>	<u>4.93</u>

## B. SAR Measurement Results

Middle Band SAR (Channel 190):

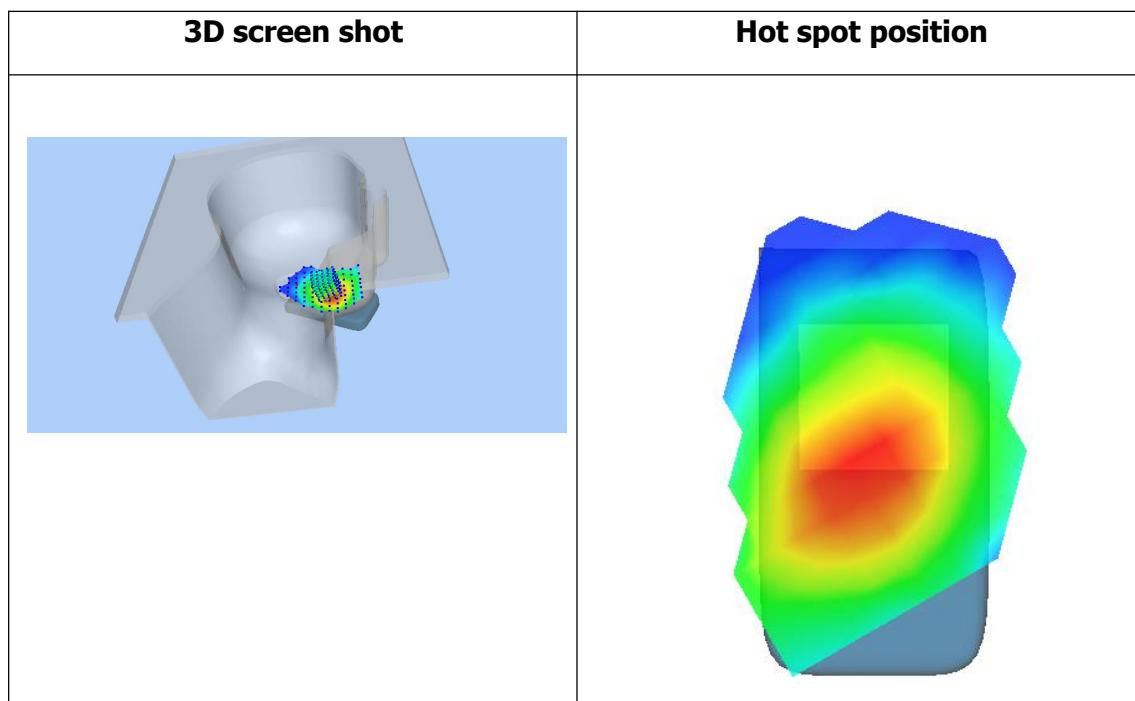
<b>Frequency (MHz)</b>	836.599976
<b>Relative permittivity (real part)</b>	40.527519
<b>Relative permittivity (imaginary part)</b>	19.956440
<b>Conductivity (S/m)</b>	0.927531
<b>Variation (%)</b>	2.300000



**Maximum location: X=-50.00, Y=-29.00**

**SAR Peak: 0.29 W/kg**

<b>SAR 10g (W/Kg)</b>	0.123439
<b>SAR 1g (W/Kg)</b>	0.193263



## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 24/8/2016

Measurement duration: 9 minutes 59 seconds

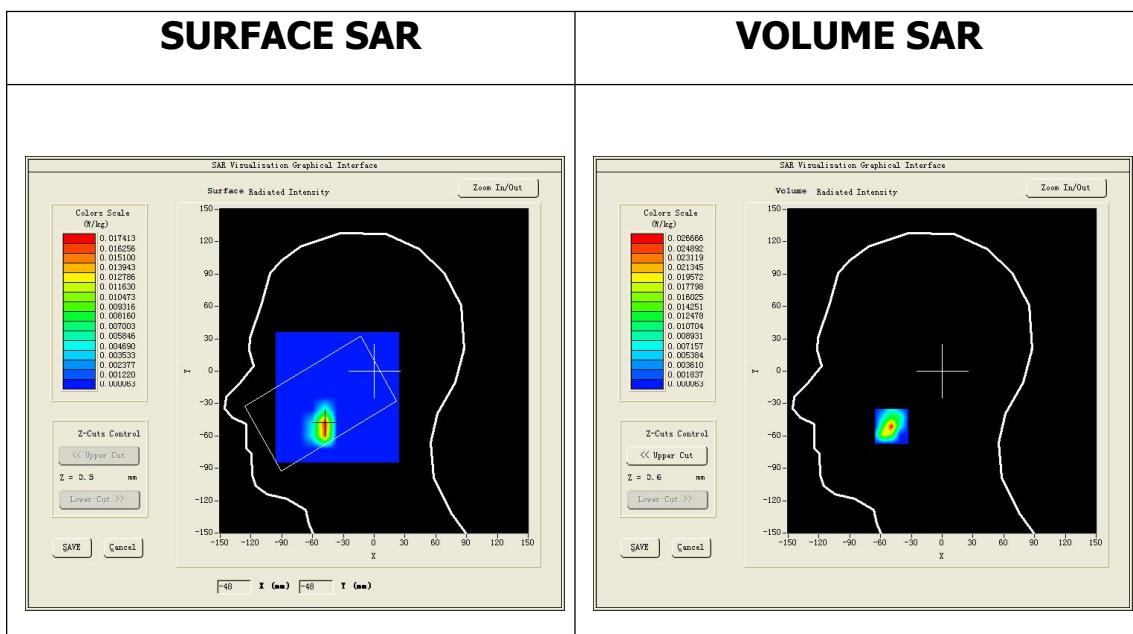
### **A. Experimental conditions.**

<b><u>Area Scan</u></b>	<u>dx=15mm dy=15mm</u>
<b><u>ZoomScan</u></b>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<b><u>Phantom</u></b>	<u>Right head</u>
<b><u>Device Position</u></b>	<u>Cheek</u>
<b><u>Band</u></b>	<u>CUSTOM (GPRS1900 4Tx)</u>
<b><u>Channels</u></b>	<u>Middle</u>
<b><u>Signal</u></b>	<u>Duty Cycle: 2.00 (Crest factor: 2.0)</u>
<b><u>Conversion factor</u></b>	<u>4.63</u>

### **B. SAR Measurement Results**

Middle Band SAR (Channel 661):

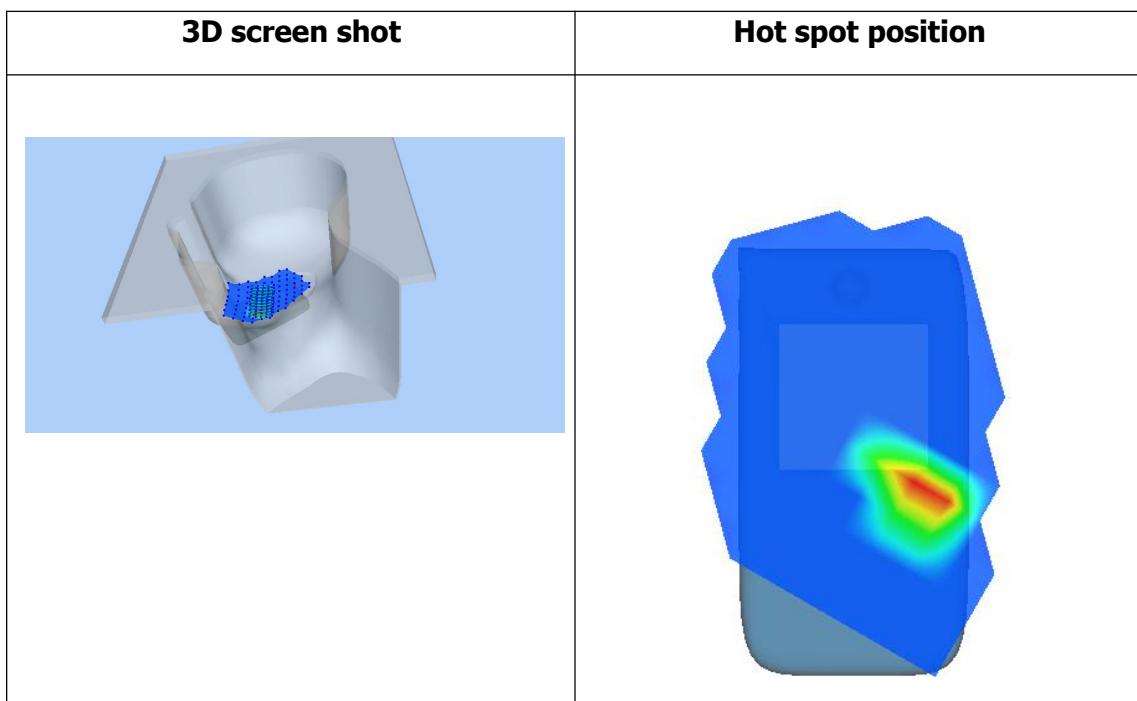
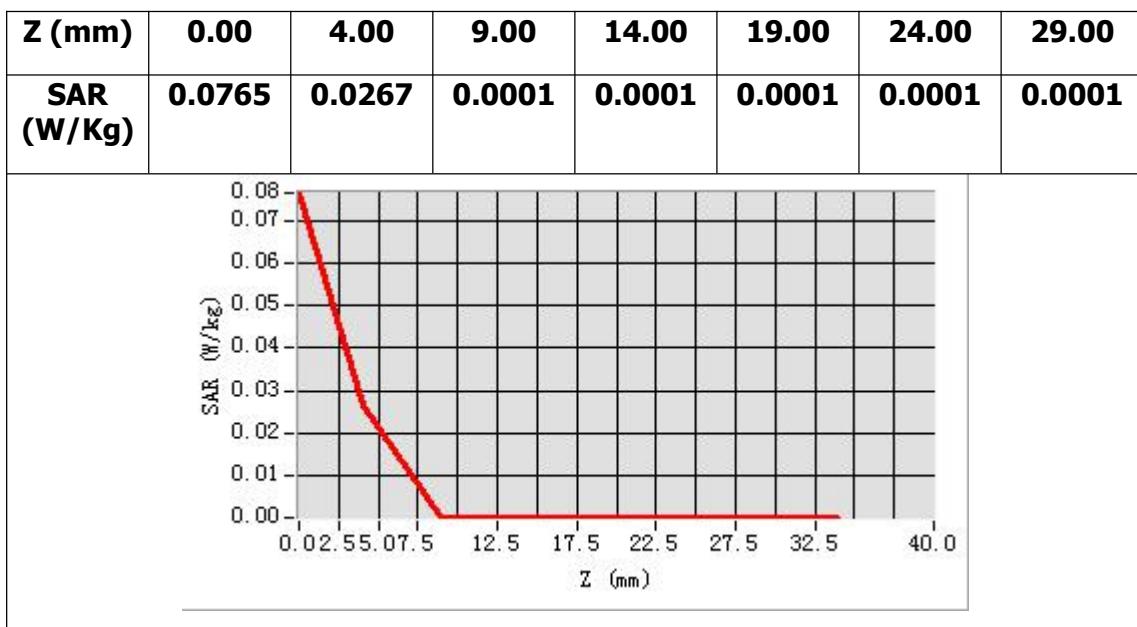
<b>Frequency (MHz)</b>	1880.000000
<b>Relative permittivity (real part)</b>	40.054401
<b>Relative permittivity (imaginary part)</b>	13.497900
<b>Conductivity (S/m)</b>	1.409781
<b>Variation (%)</b>	0.000000



**Maximum location: X=-49.00, Y=-51.00**

**SAR Peak: 0.08 W/kg**

<b>SAR 10g (W/Kg)</b>	0.006927
<b>SAR 1g (W/Kg)</b>	0.026499



## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 24/8/2016

Measurement duration: 9 minutes 55 seconds

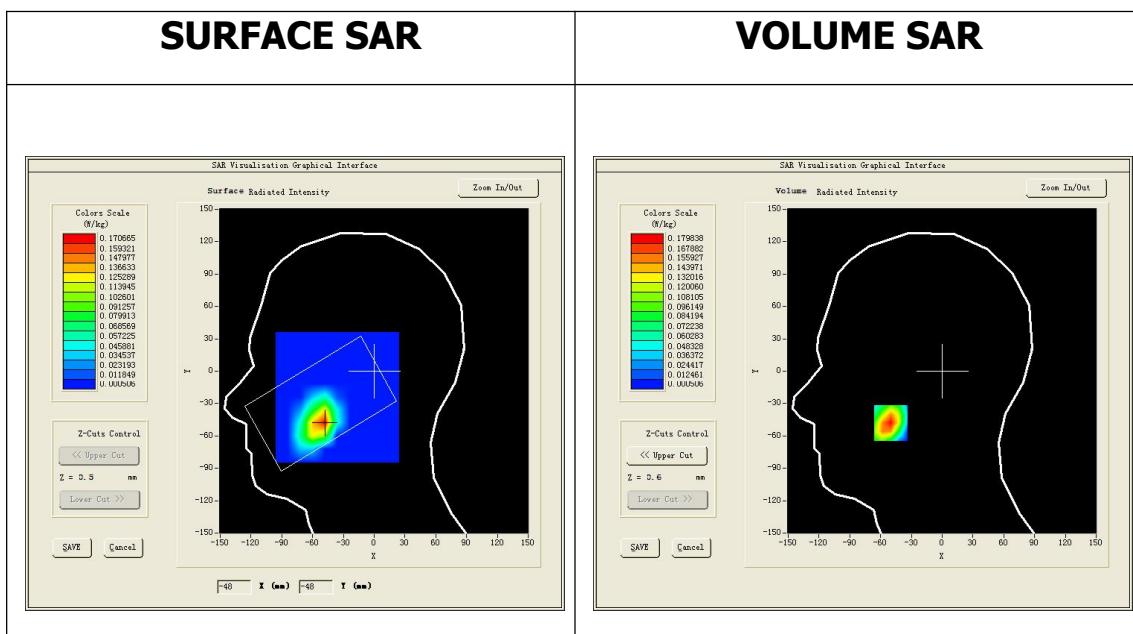
### **A. Experimental conditions.**

<b><u>Area Scan</u></b>	<u>dx=15mm dy=15mm</u>
<b><u>ZoomScan</u></b>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<b><u>Phantom</u></b>	<u>Right head</u>
<b><u>Device Position</u></b>	<u>Cheek</u>
<b><u>Band</u></b>	<u>Band2 WCDMA1900</u>
<b><u>Channels</u></b>	<u>Middle</u>
<b><u>Signal</u></b>	<u>WCDMA (Crest factor: 1.0)</u>
<b><u>Conversion factor</u></b>	<u>4.63</u>

### **B. SAR Measurement Results**

Middle Band SAR (Channel 9400):

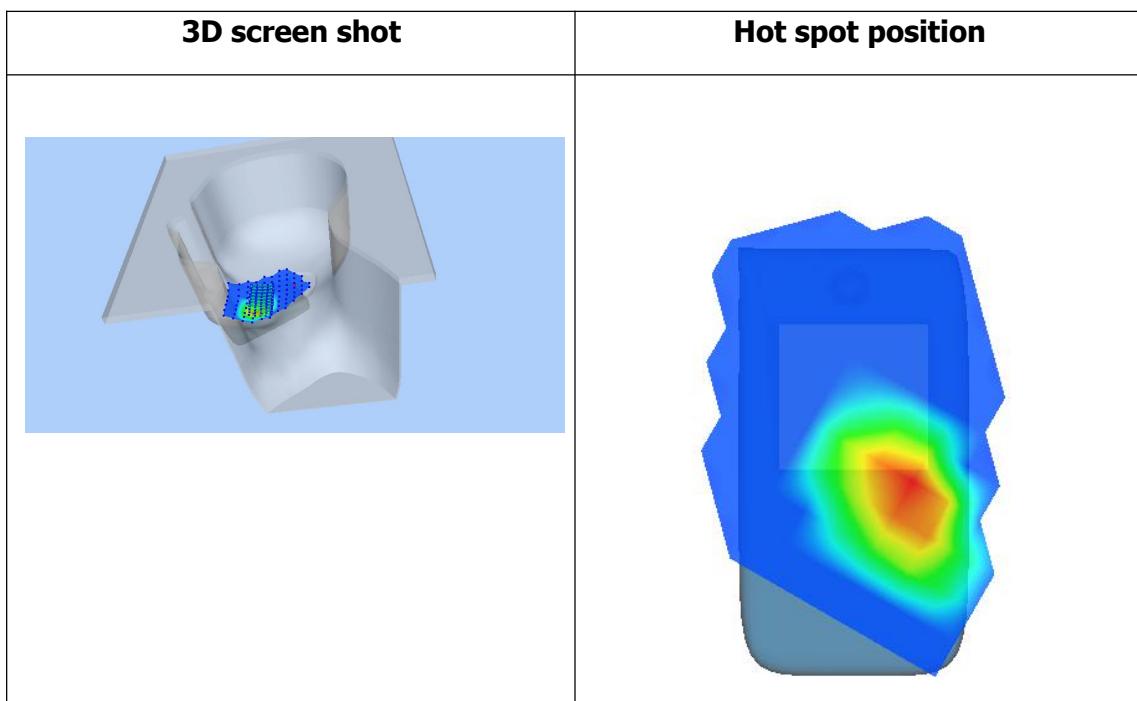
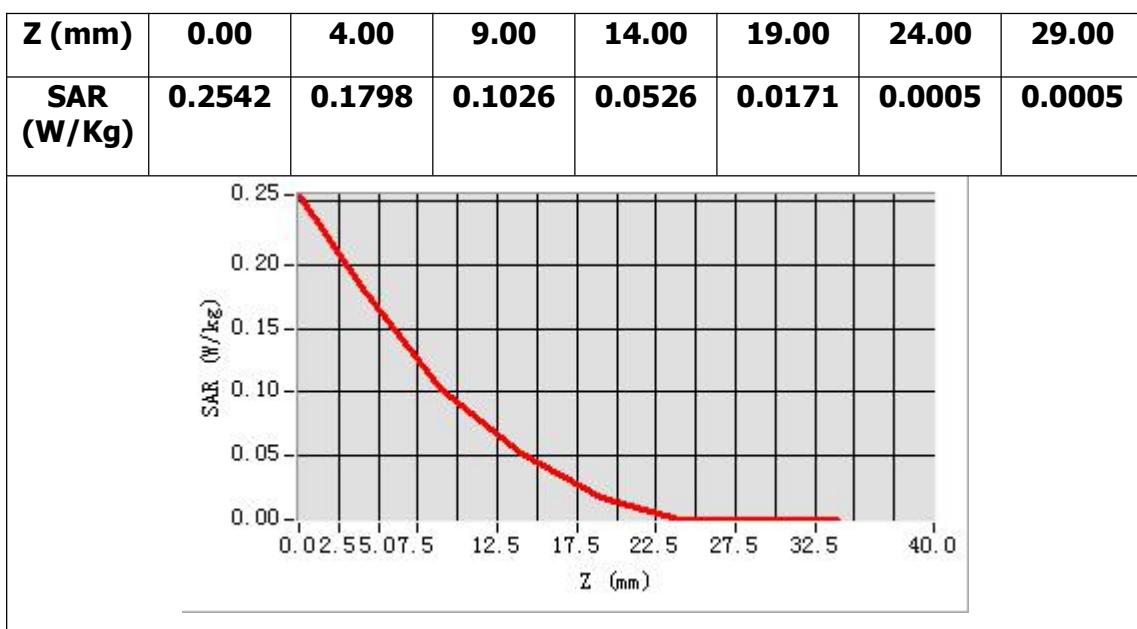
<b>Frequency (MHz)</b>	1880.000000
<b>Relative permittivity (real part)</b>	40.054401
<b>Relative permittivity (imaginary part)</b>	13.497900
<b>Conductivity (S/m)</b>	1.409781
<b>Variation (%)</b>	0.000000



**Maximum location: X=-50.00, Y=-48.00**

**SAR Peak: 0.26 W/kg**

<b>SAR 10g (W/Kg)</b>	0.079897
<b>SAR 1g (W/Kg)</b>	0.164147



# MEASUREMENT 4

Rear-side-middle

Type: Phone measurement (Complete)

Date of measurement: 24/8/2016

Measurement duration: 8 minutes 9 seconds

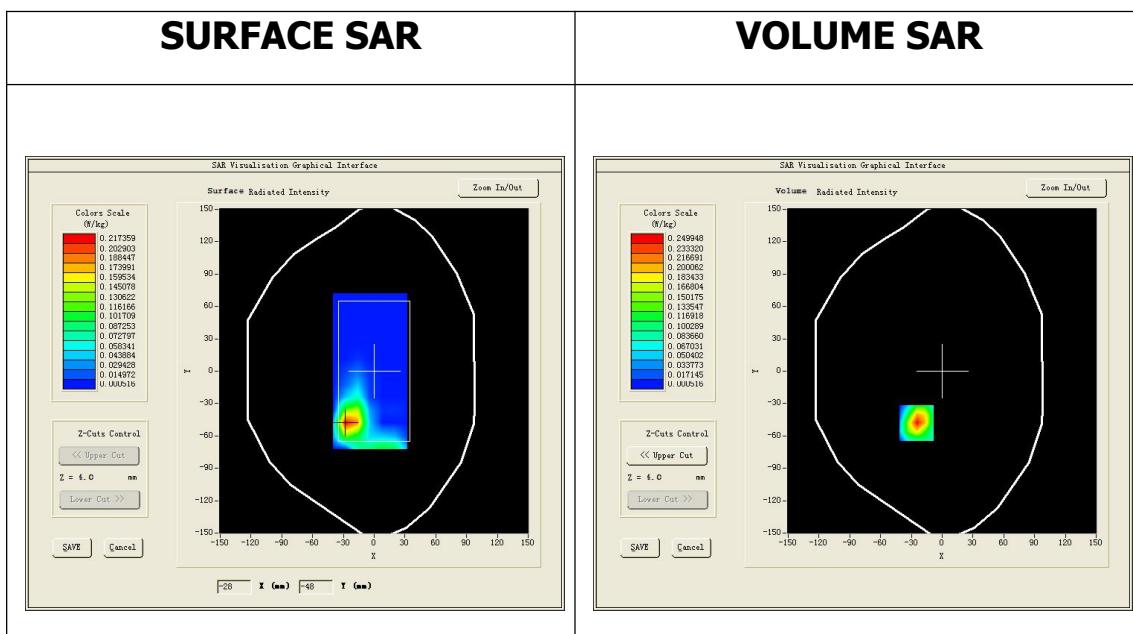
## **A. Experimental conditions.**

<b><u>Area Scan</u></b>	<u>dx=15mm dy=15mm</u>
<b><u>ZoomScan</u></b>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<b><u>Phantom</u></b>	<u>Validation plane</u>
<b><u>Device Position</u></b>	<u>Body</u>
<b><u>Band</u></b>	<u>Band2 WCDMA1900</u>
<b><u>Channels</u></b>	<u>Middle</u>
<b><u>Signal</u></b>	<u>WCDMA (Crest factor: 1.0)</u>
<b><u>Conversion factor</u></b>	<u>4.78</u>

## **B. SAR Measurement Results**

Middle Band SAR (Channel 9400):

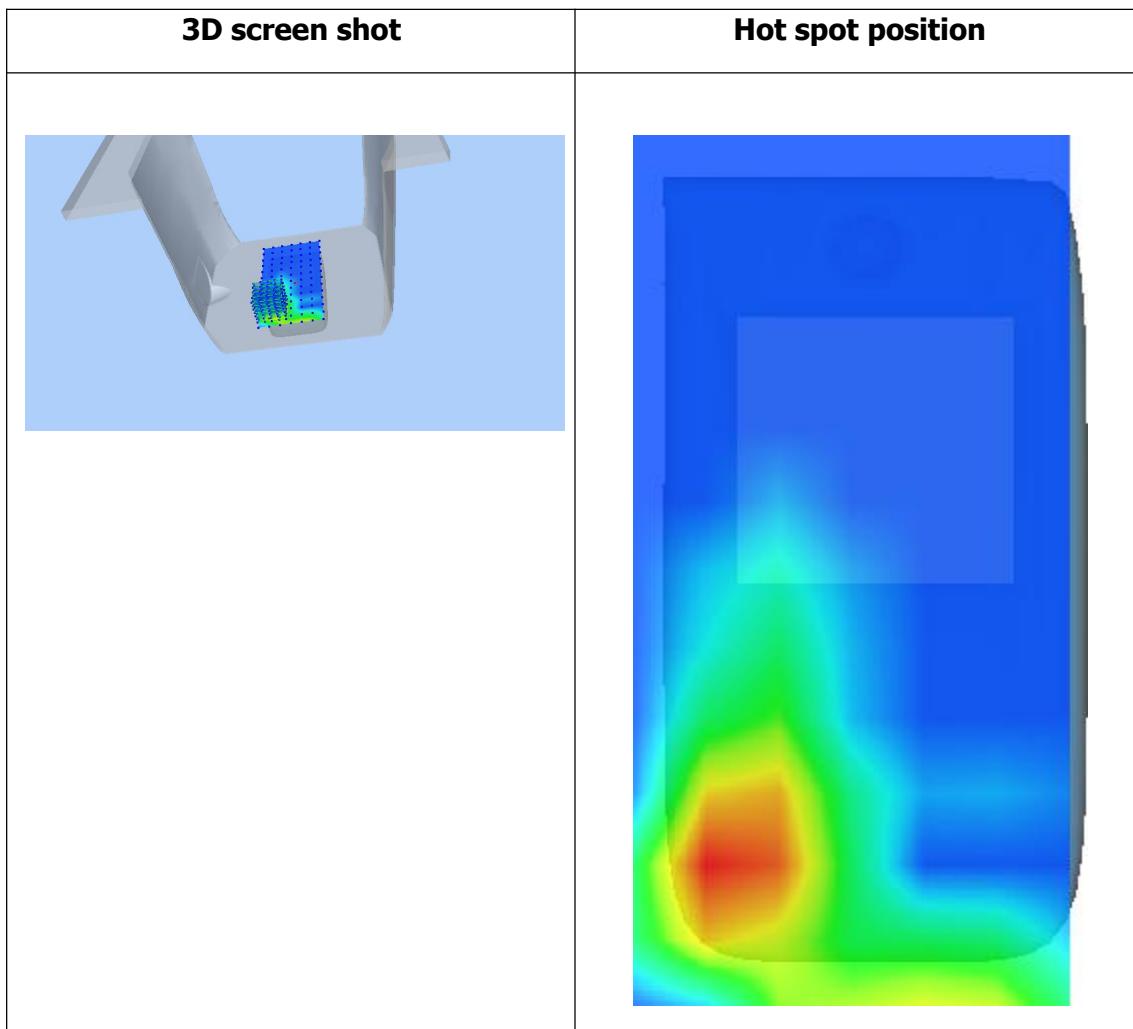
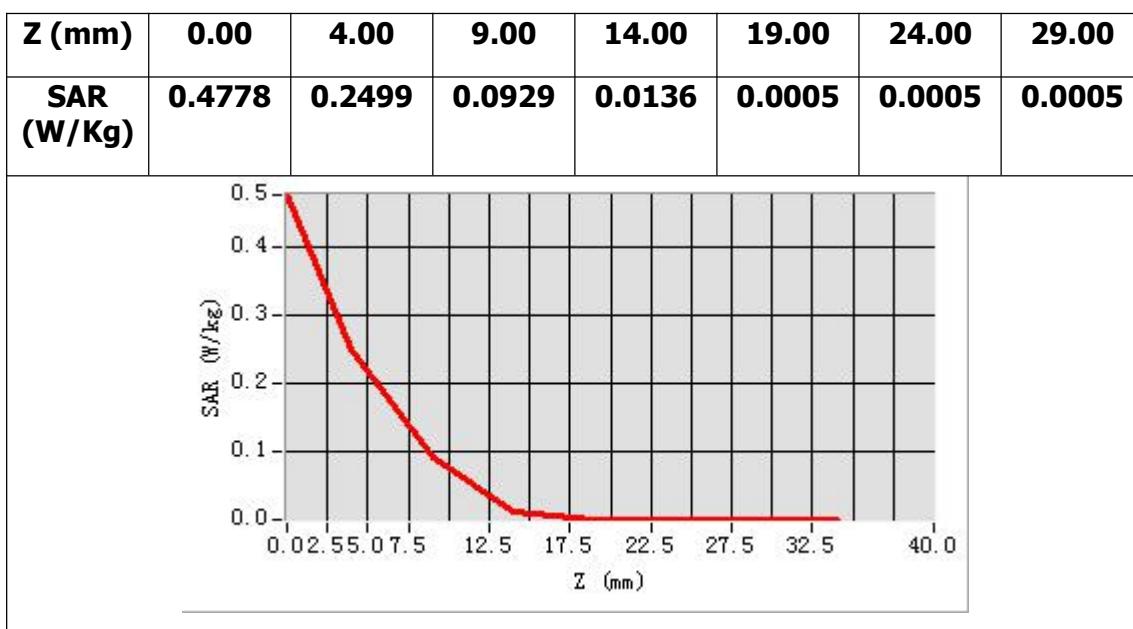
<b>Frequency (MHz)</b>	1880.000000
<b>Relative permittivity (real part)</b>	52.254398
<b>Relative permittivity (imaginary part)</b>	14.597900
<b>Conductivity (S/m)</b>	1.524670
<b>Variation (%)</b>	2.900000



**Maximum location: X=-25.00, Y=-48.00**

**SAR Peak: 0.52 W/kg**

<b>SAR 10g (W/Kg)</b>	0.095596
<b>SAR 1g (W/Kg)</b>	0.252382



# MEASUREMENT 5

Towards-ground-middle

Type: Phone measurement (Complete)

Date of measurement: 24/8/2016

Measurement duration: 7 minutes 44 seconds

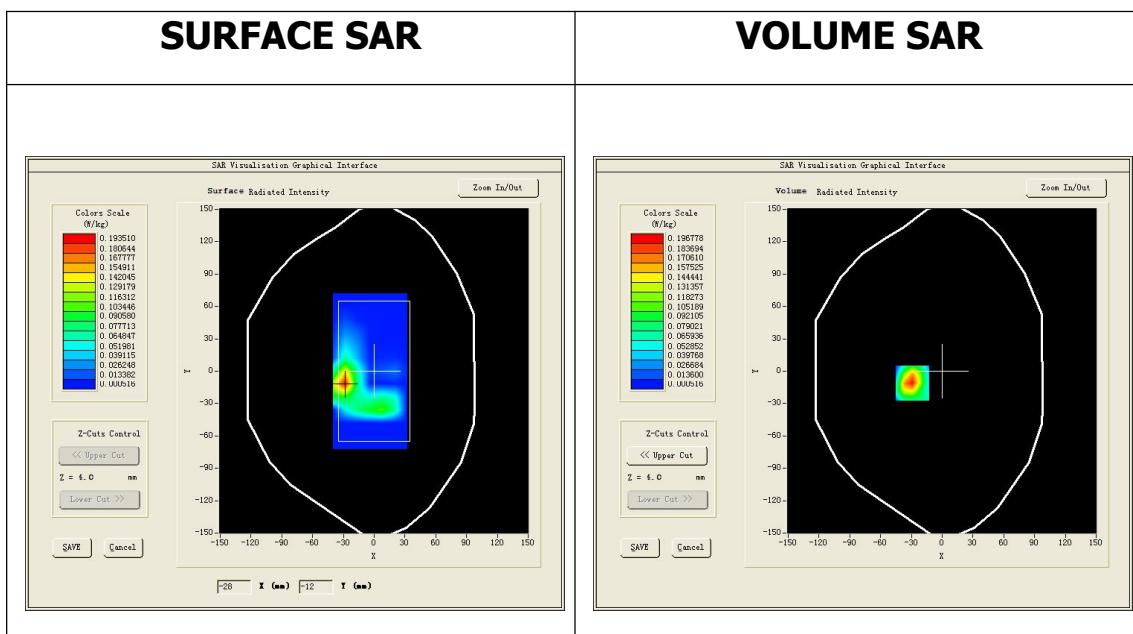
## A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band2 WCDMA1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>
<u>Conversion factor</u>	<u>4.78</u>

## B. SAR Measurement Results

Middle Band SAR (Channel 9400):

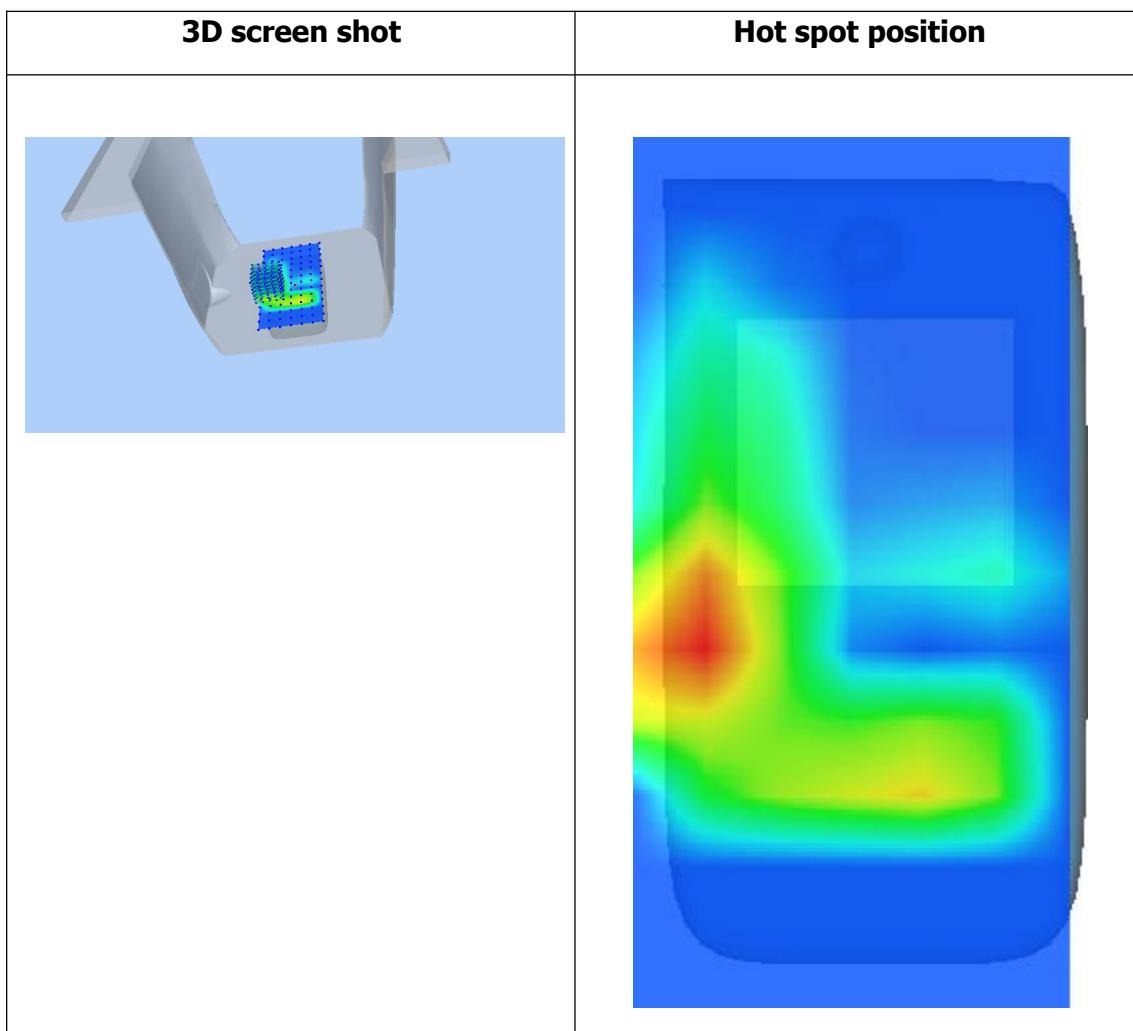
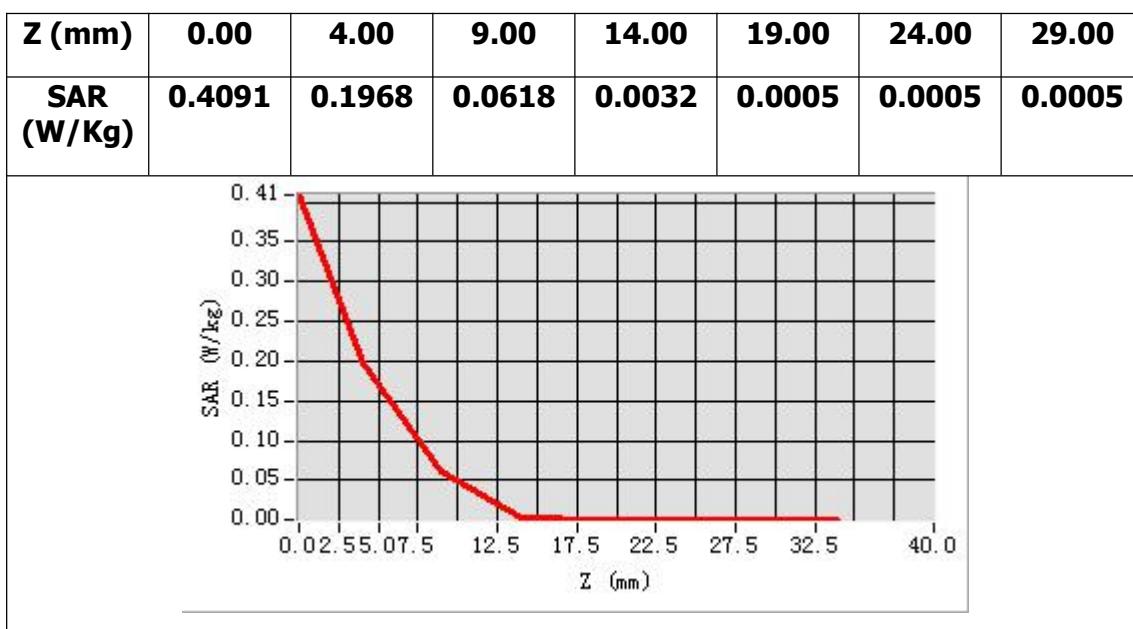
<b>Frequency (MHz)</b>	1880.000000
<b>Relative permittivity (real part)</b>	52.254398
<b>Relative permittivity (imaginary part)</b>	14.597900
<b>Conductivity (S/m)</b>	1.524670
<b>Variation (%)</b>	4.750000



**Maximum location: X=-29.00, Y=-11.00**

**SAR Peak: 0.45 W/kg**

<b>SAR 10g (W/Kg)</b>	0.073066
<b>SAR 1g (W/Kg)</b>	0.206883



# MEASUREMENT 6

Type: Phone measurement (Complete)

Date of measurement: 27/8/2016

Measurement duration: 9 minutes 59 seconds

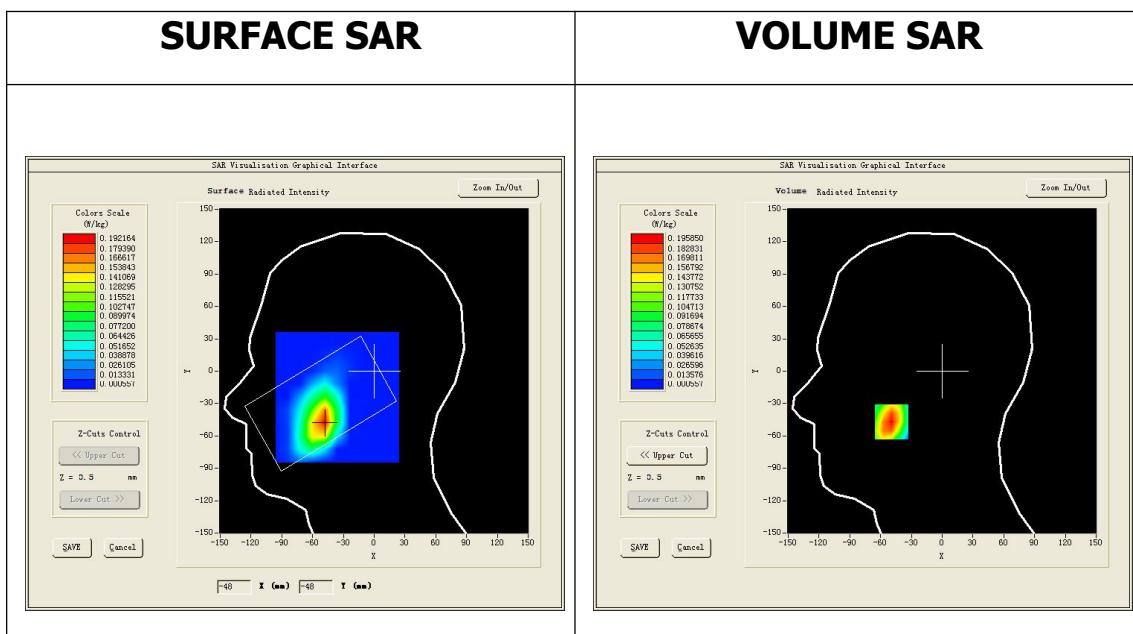
## A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>Band4 WCDMA1700</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>
<u>Conversion factor</u>	<u>4.01</u>

## B. SAR Measurement Results

Middle Band SAR (Channel 1413):

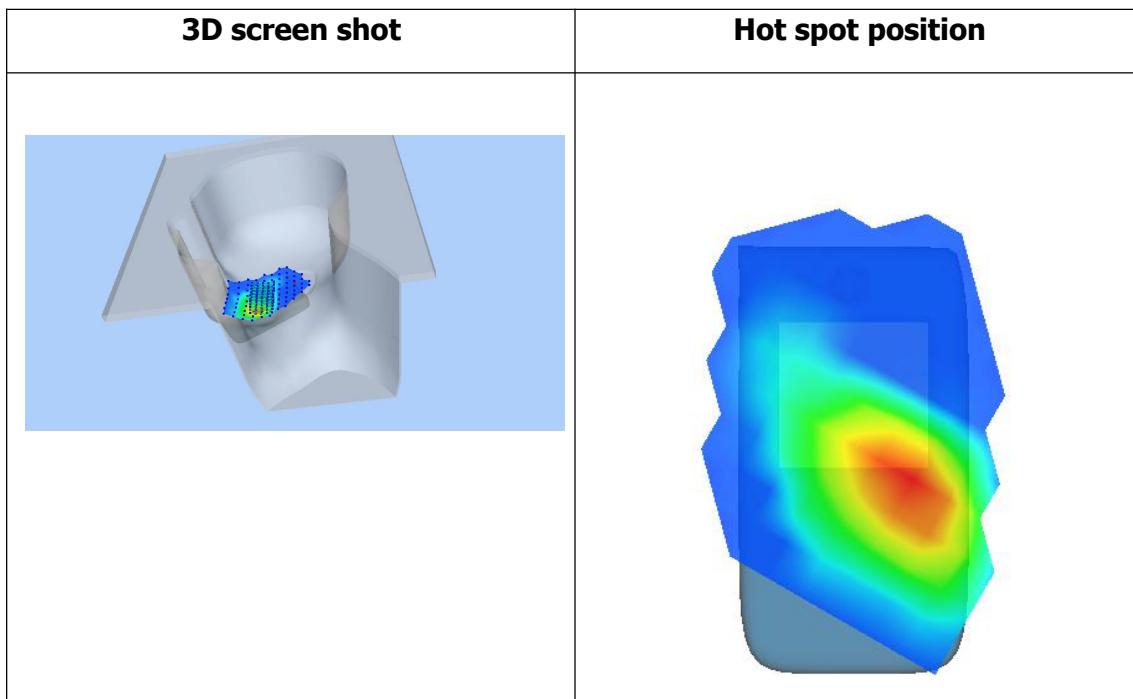
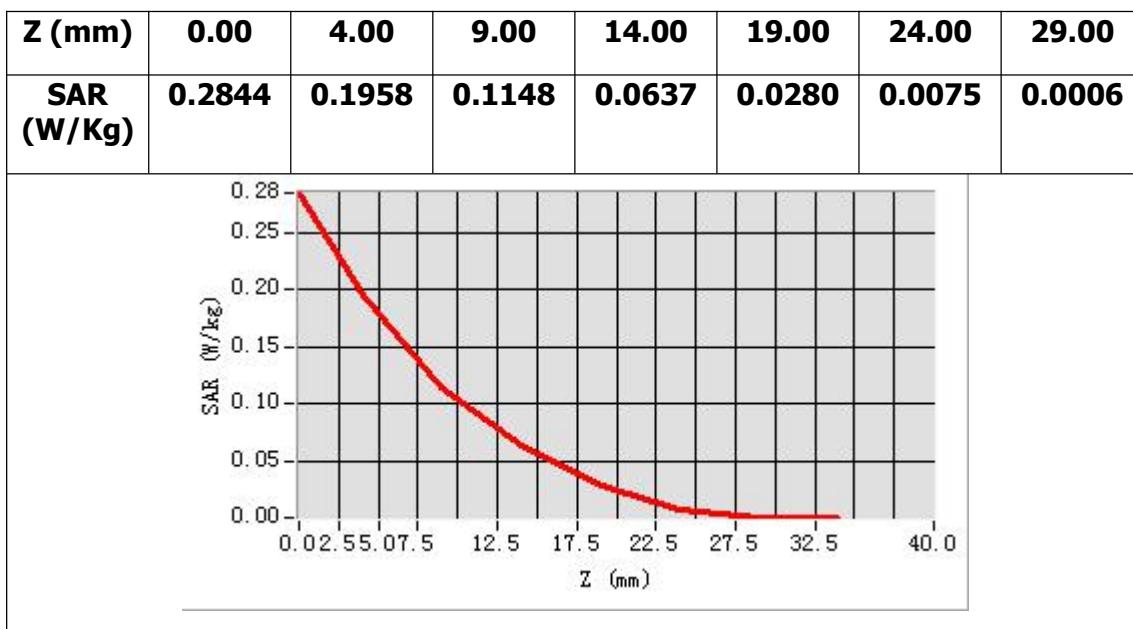
<b>Frequency (MHz)</b>	1732.500000
<b>Relative permittivity (real part)</b>	39.690201
<b>Relative permittivity (imaginary part)</b>	14.005500
<b>Conductivity (S/m)</b>	1.347640
<b>Variation (%)</b>	0.000000



**Maximum location: X=-49.00, Y=-47.00**

**SAR Peak: 0.29 W/kg**

<b>SAR 10g (W/Kg)</b>	0.097545
<b>SAR 1g (W/Kg)</b>	0.183392



# MEASUREMENT 7

Rear-side-middle

Type: Phone measurement (Complete)

Date of measurement: 27/8/2016

Measurement duration: 11 minutes 33 seconds

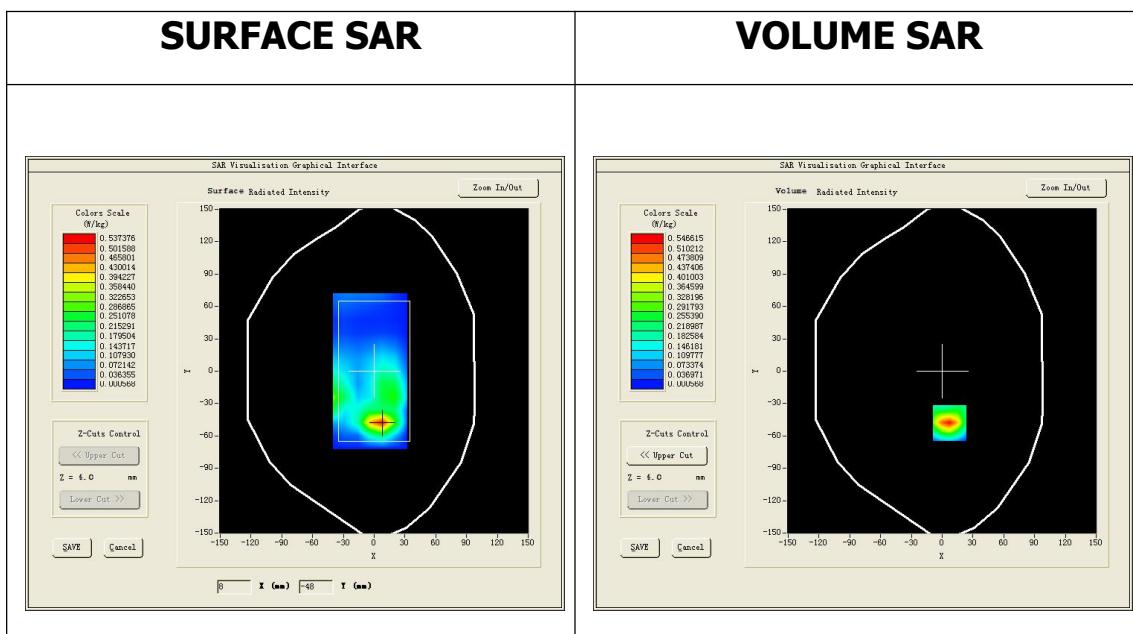
## A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band4 WCDMA1700</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>
<u>Conversion factor</u>	<u>4.16</u>

## B. SAR Measurement Results

Middle Band SAR (Channel 1413):

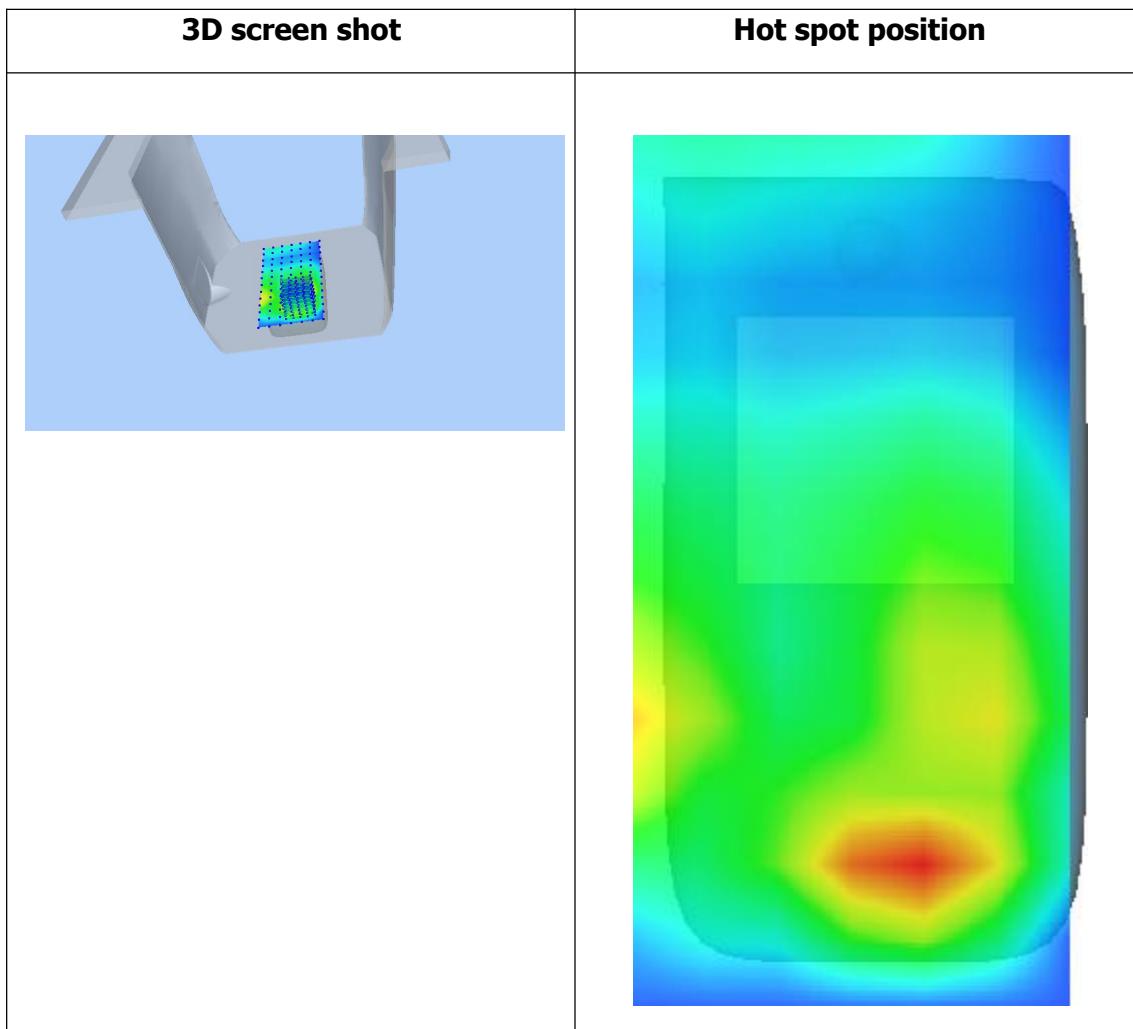
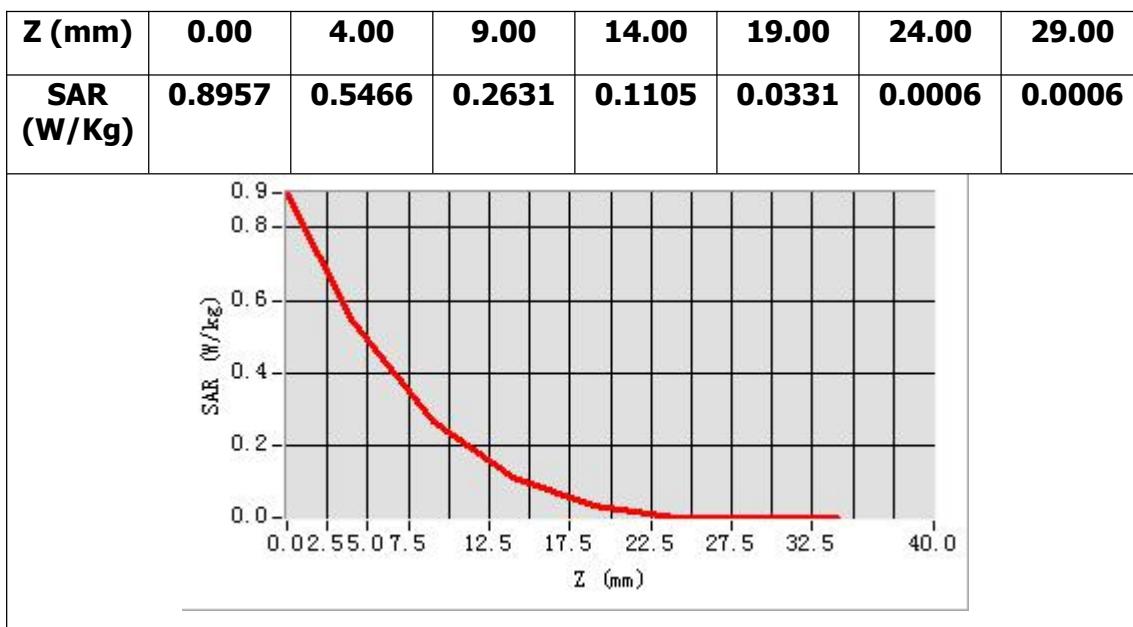
<b>Frequency (MHz)</b>	1732.500000
<b>Relative permittivity (real part)</b>	53.297798
<b>Relative permittivity (imaginary part)</b>	14.675700
<b>Conductivity (S/m)</b>	1.412128
<b>Variation (%)</b>	1.220000



**Maximum location: X=7.00, Y=-48.00**

**SAR Peak: 0.94 W/kg**

<b>SAR 10g (W/Kg)</b>	0.220619
<b>SAR 1g (W/Kg)</b>	0.514238



# MEASUREMENT 8

Towards-ground-middle

Type: Phone measurement (Complete)

Date of measurement: 27/8/2016

Measurement duration: 11 minutes 48 seconds

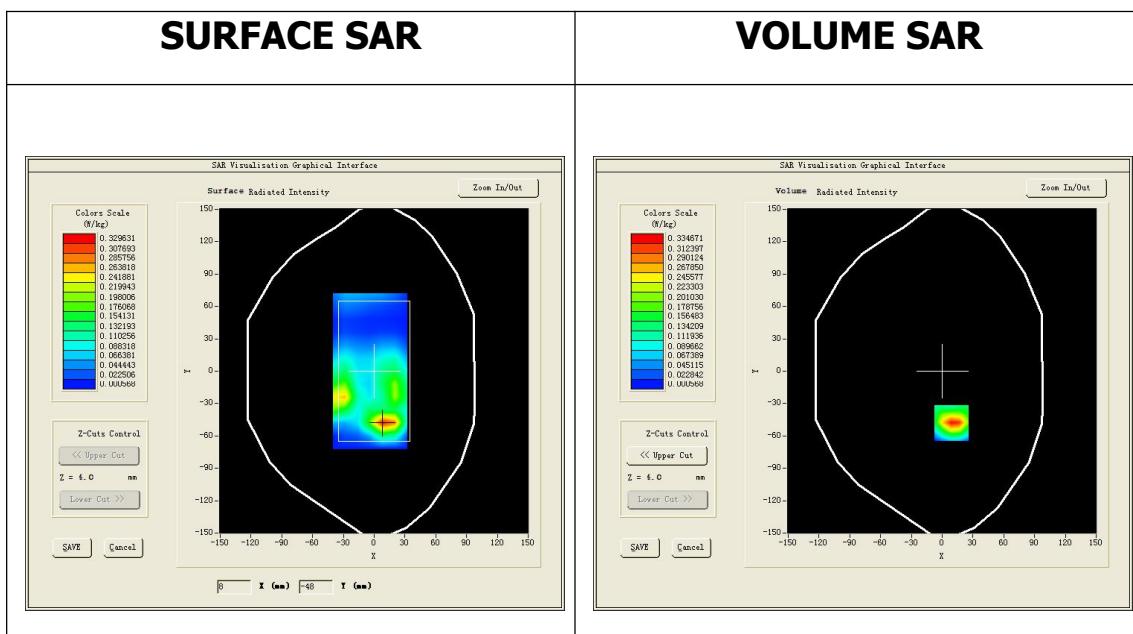
## A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band4 WCDMA1700</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>
<u>Conversion factor</u>	<u>4.16</u>

## B. SAR Measurement Results

Middle Band SAR (Channel 1413):

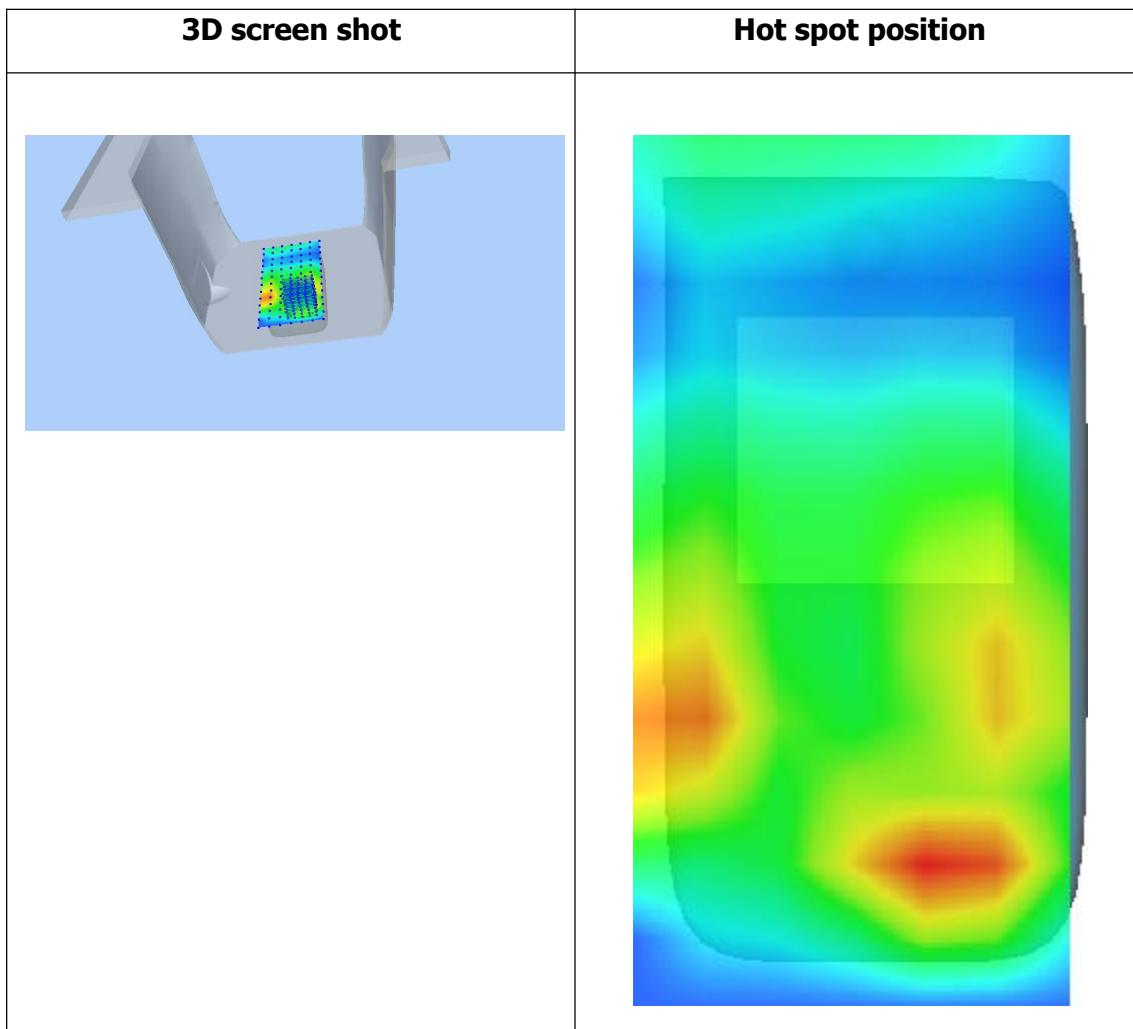
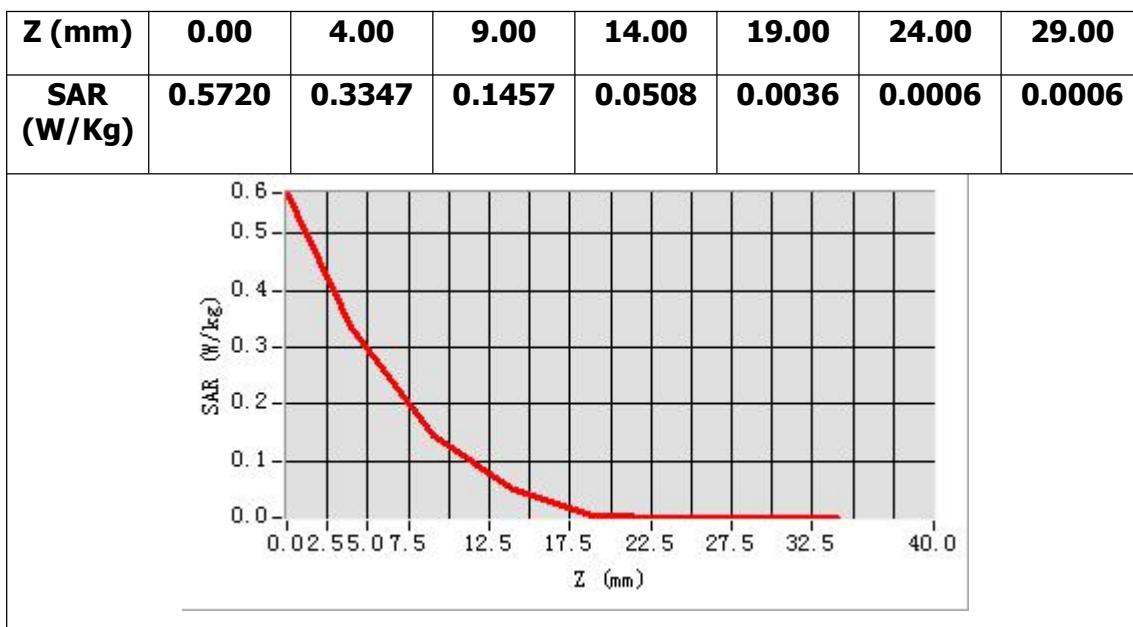
<b>Frequency (MHz)</b>	1732.500000
<b>Relative permittivity (real part)</b>	53.297798
<b>Relative permittivity (imaginary part)</b>	14.675700
<b>Conductivity (S/m)</b>	1.412128
<b>Variation (%)</b>	-0.700000



**Maximum location: X=9.00, Y=-48.00**

**SAR Peak: 0.61 W/kg**

<b>SAR 10g (W/Kg)</b>	0.131094
<b>SAR 1g (W/Kg)</b>	0.319162



# MEASUREMENT 9

Type: Phone measurement (Complete)

Date of measurement: 19/8/2016

Measurement duration: 9 minutes 37 seconds

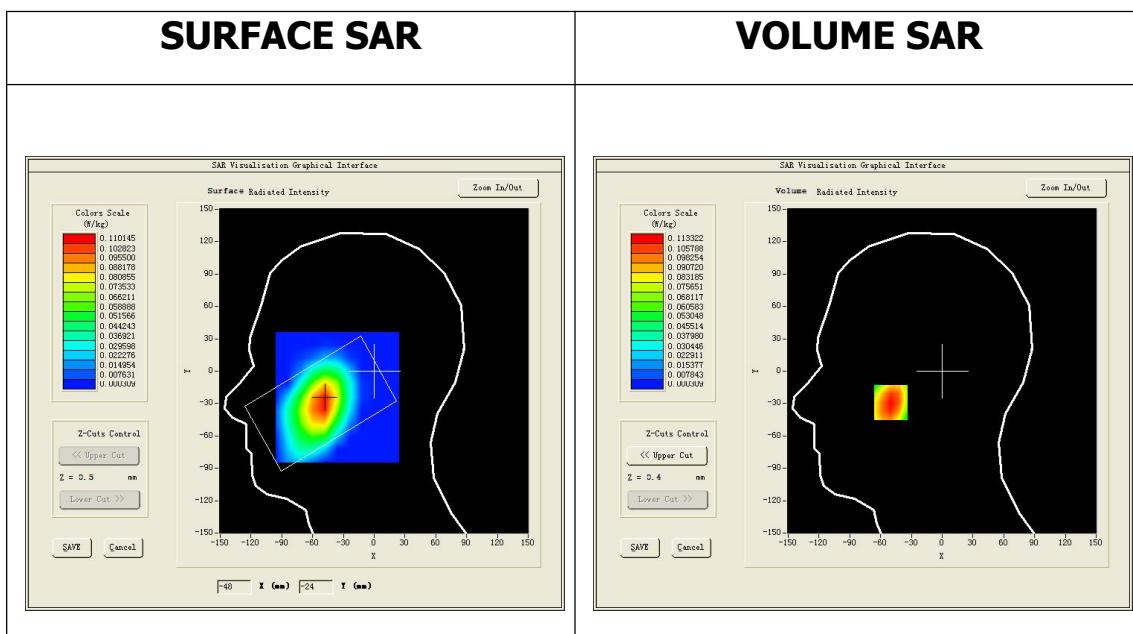
## A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>Band5 WCDMA850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>
<u>Conversion factor</u>	<u>4.93</u>

## B. SAR Measurement Results

Middle Band SAR (Channel 4182):

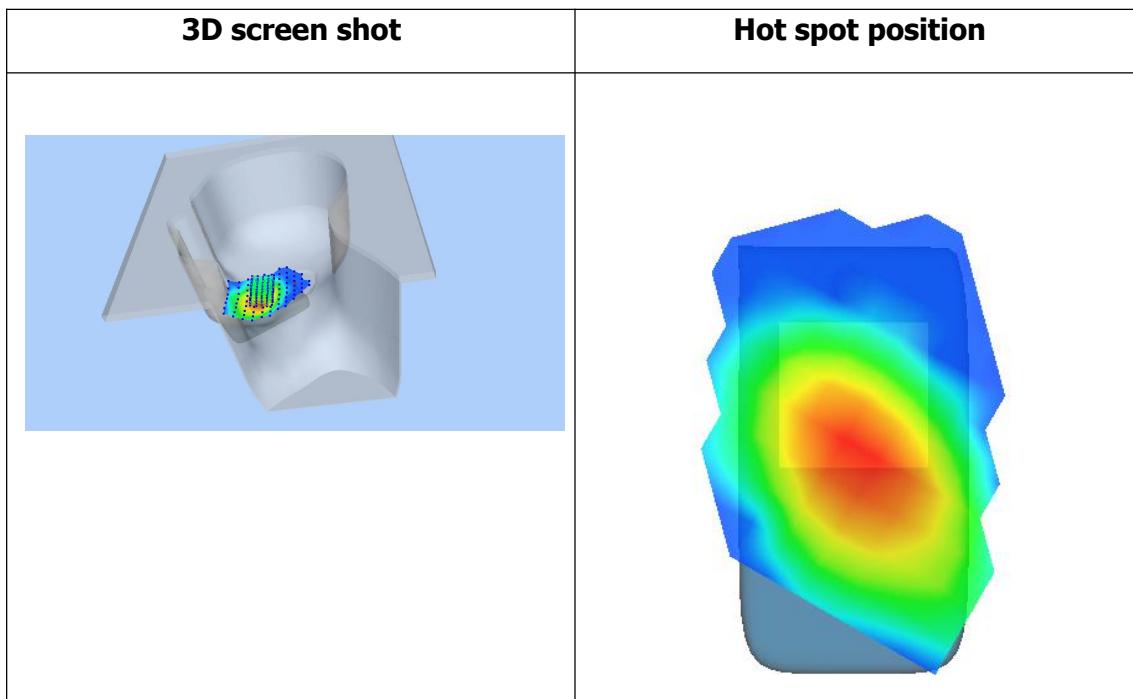
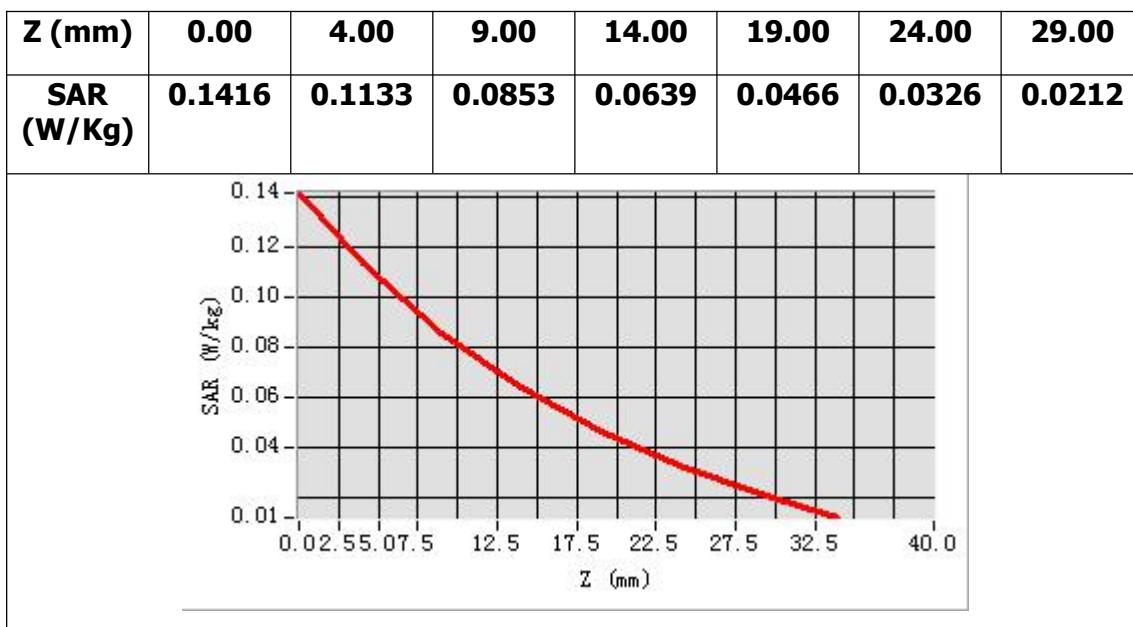
<b>Frequency (MHz)</b>	836.400024
<b>Relative permittivity (real part)</b>	40.538380
<b>Relative permittivity (imaginary part)</b>	19.960159
<b>Conductivity (S/m)</b>	0.927482
<b>Variation (%)</b>	0.000000



**Maximum location: X=-50.00, Y=-29.00**

**SAR Peak: 0.14 W/kg**

<b>SAR 10g (W/Kg)</b>	0.075351
<b>SAR 1g (W/Kg)</b>	0.111167



# MEASUREMENT 10

Rear-side-middle

Type: Phone measurement (Complete)

Date of measurement: 19/8/2016

Measurement duration: 10 minutes 19 seconds

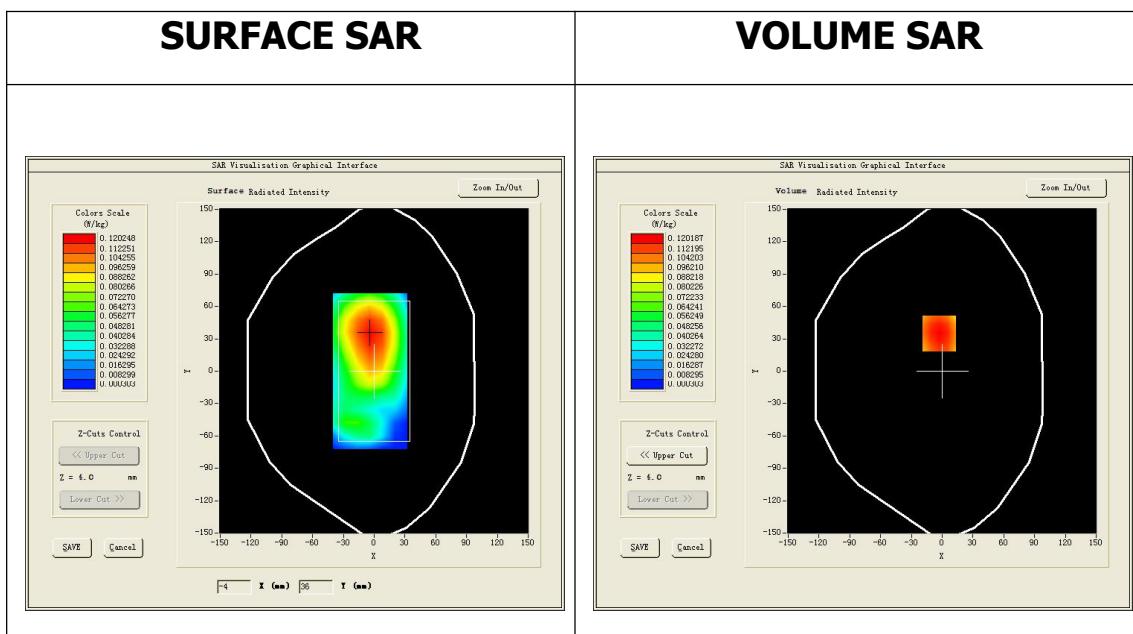
## A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band5 WCDMA850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>
<u>Conversion factor</u>	<u>5.07</u>

## B. SAR Measurement Results

Middle Band SAR (Channel 4182):

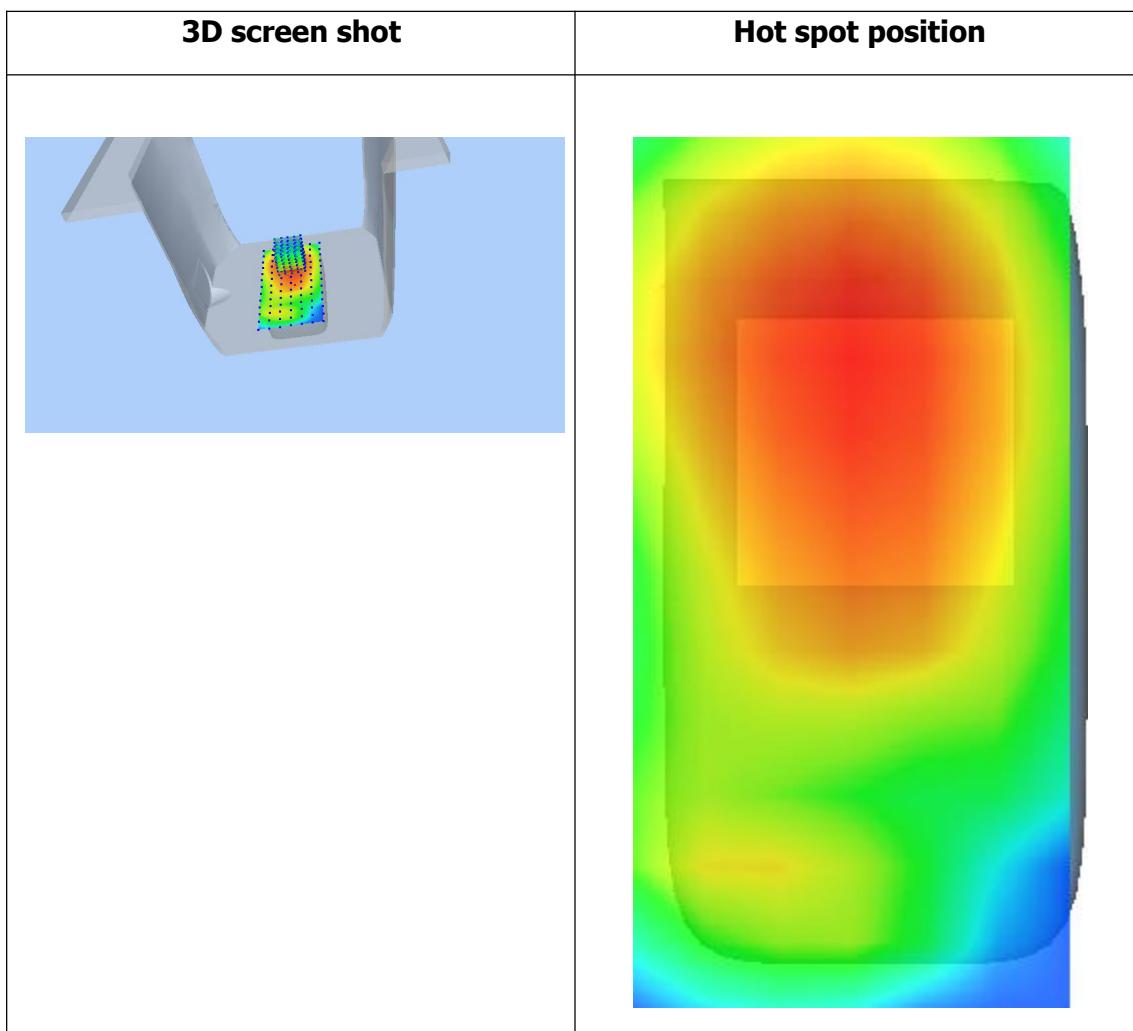
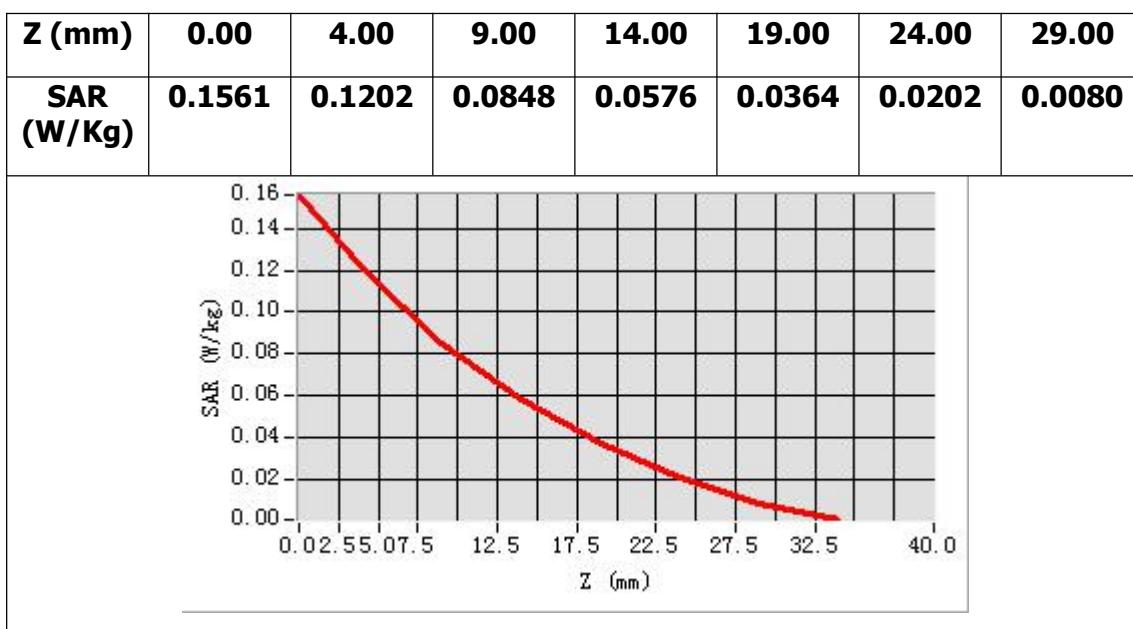
<b>Frequency (MHz)</b>	836.400024
<b>Relative permittivity (real part)</b>	53.394279
<b>Relative permittivity (imaginary part)</b>	21.684340
<b>Conductivity (S/m)</b>	1.007599
<b>Variation (%)</b>	3.630000



**Maximum location: X=-3.00, Y=35.00**

**SAR Peak: 0.17 W/kg**

<b>SAR 10g (W/Kg)</b>	0.085976
<b>SAR 1g (W/Kg)</b>	0.130090



# MEASUREMENT 11

Towards-ground-middle

Type: Phone measurement (Complete)

Date of measurement: 19/8/2016

Measurement duration: 10 minutes 0 seconds

## A. Experimental conditions.

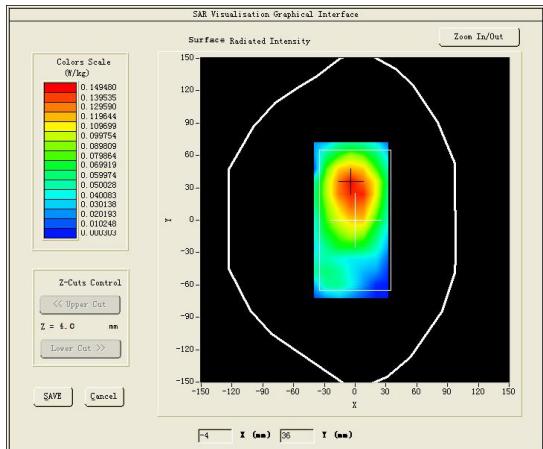
<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band5 WCDMA850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>
<u>Conversion factor</u>	<u>5.07</u>

## B. SAR Measurement Results

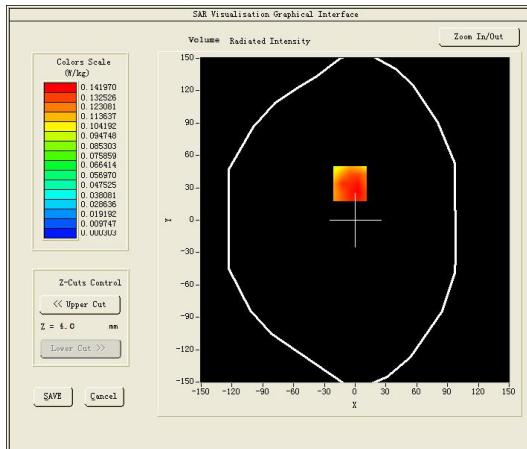
Middle Band SAR (Channel 4182):

<b>Frequency (MHz)</b>	836.400024
<b>Relative permittivity (real part)</b>	53.394279
<b>Relative permittivity (imaginary part)</b>	21.684340
<b>Conductivity (S/m)</b>	1.007599
<b>Variation (%)</b>	1.420000

# **SURFACE SAR**



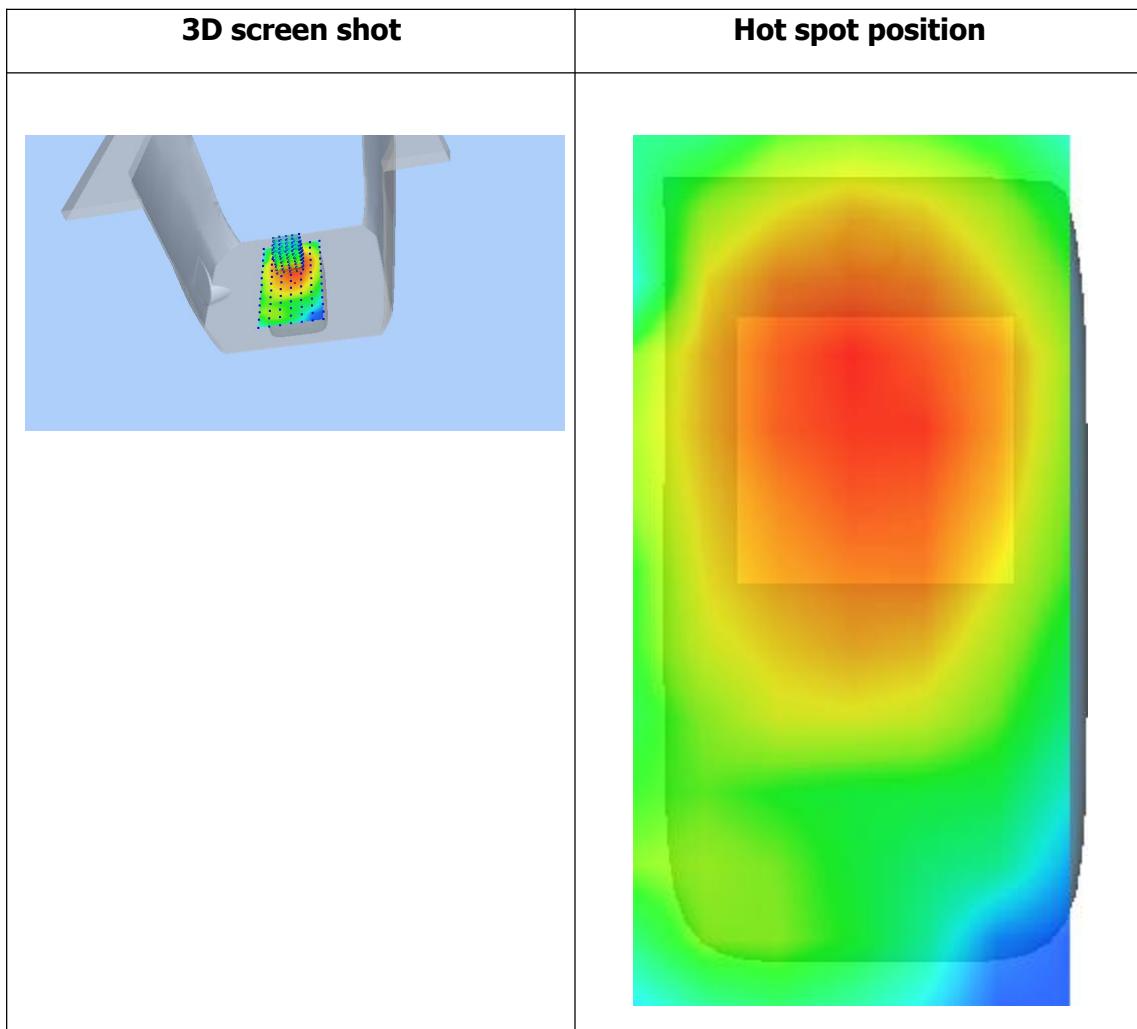
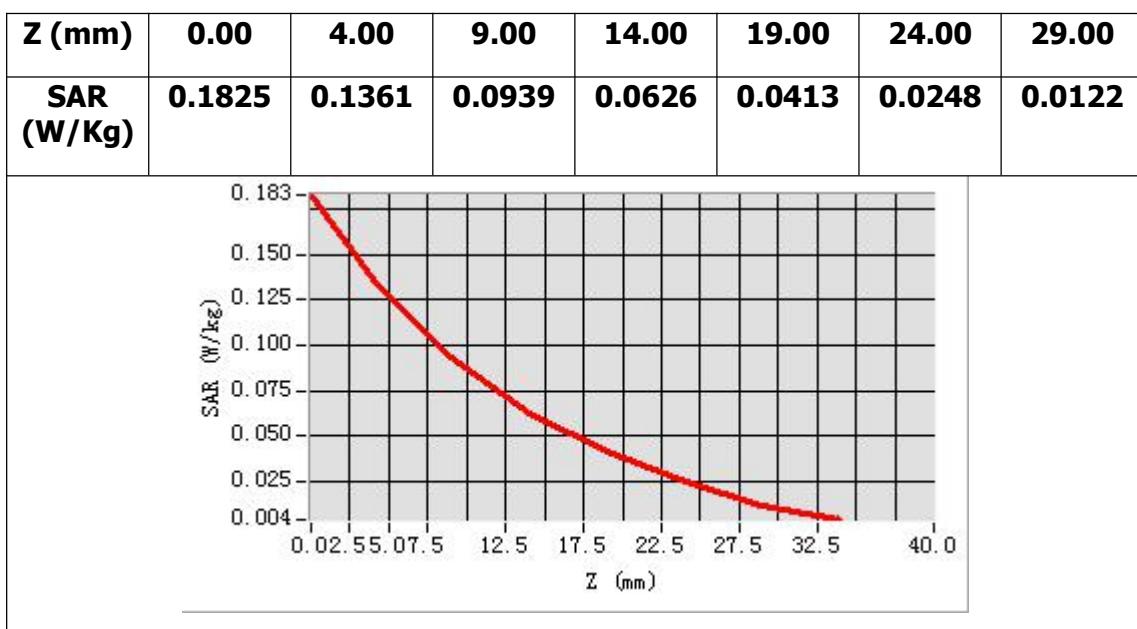
# VOLUME SAR



**Maximum location: X=-5.00, Y=34.00**

**SAR Peak: 0.21 W/kg**

<b>SAR 10g (W/Kg)</b>	0.100848
<b>SAR 1g (W/Kg)</b>	0.153315



# MEASUREMENT 12

Type: Phone measurement (Complete)

Date of measurement: 20/8/2016

Measurement duration: 10 minutes 1 seconds

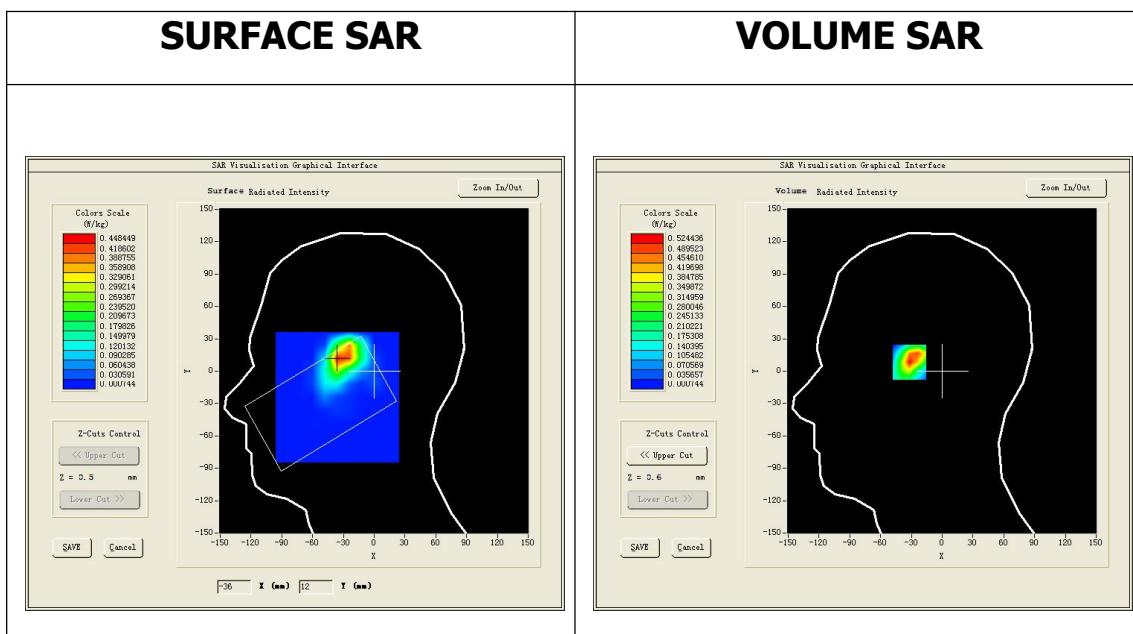
## A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>IEEE 802.11b ISM</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>IEEE802.b (Crest factor: 1.0)</u>
<u>Conversion factor</u>	<u>4.00</u>

## B. SAR Measurement Results

Middle Band SAR (Channel 6):

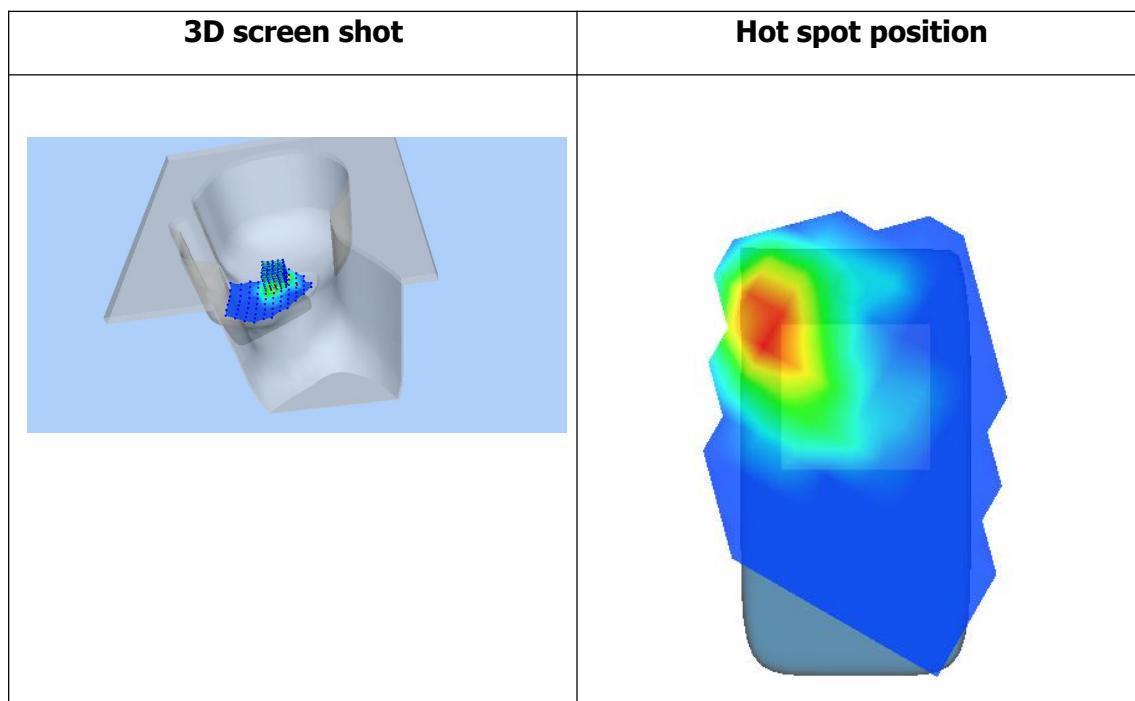
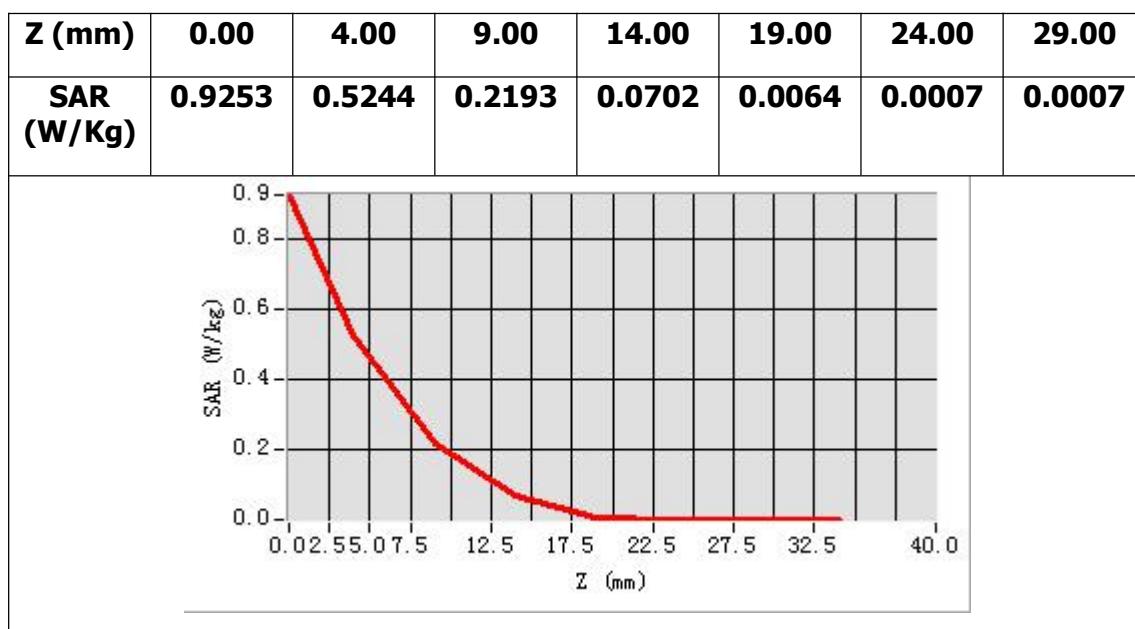
<b>Frequency (MHz)</b>	2437.000000
<b>Relative permittivity (real part)</b>	39.279701
<b>Relative permittivity (imaginary part)</b>	13.189900
<b>Conductivity (S/m)</b>	1.789430
<b>Variation (%)</b>	2.040000



**Maximum location: X=-32.00, Y=12.00**

**SAR Peak: 1.03 W/kg**

<b>SAR 10g (W/Kg)</b>	0.193460
<b>SAR 1g (W/Kg)</b>	0.496850



# MEASUREMENT 13

Rear side-middle

Type: Phone measurement (Complete)

Date of measurement: 20/8/2016

Measurement duration: 10 minutes 48 seconds

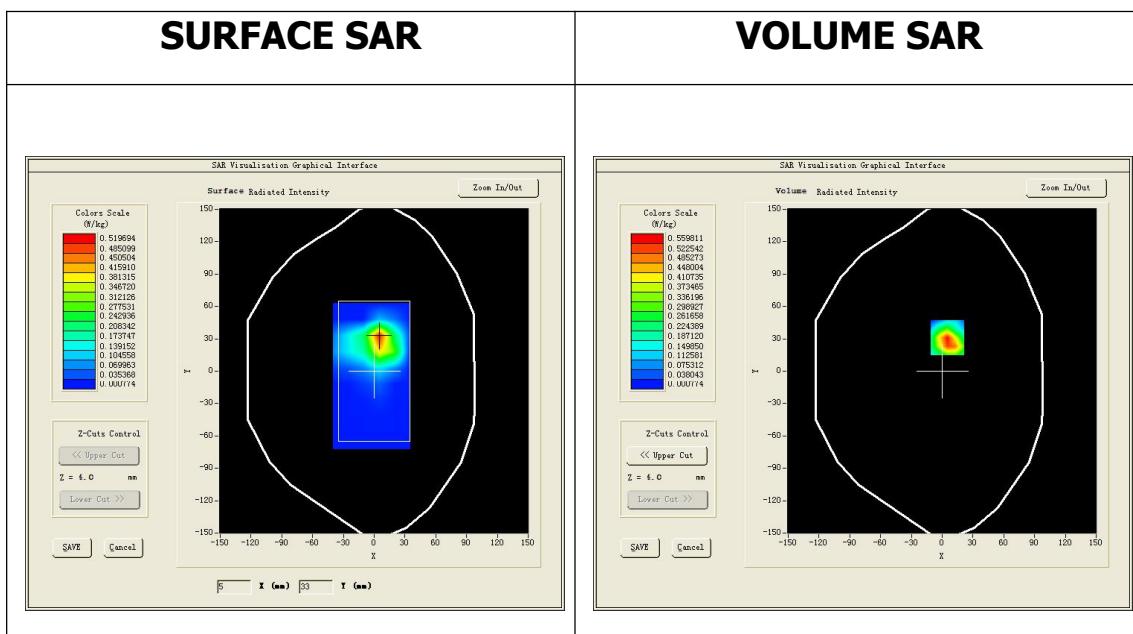
## A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>IEEE 802.11b ISM</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>IEEE802.b (Crest factor: 1.0)</u>
<u>Conversion factor</u>	<u>4.11</u>

## B. SAR Measurement Results

Middle Band SAR (Channel 6):

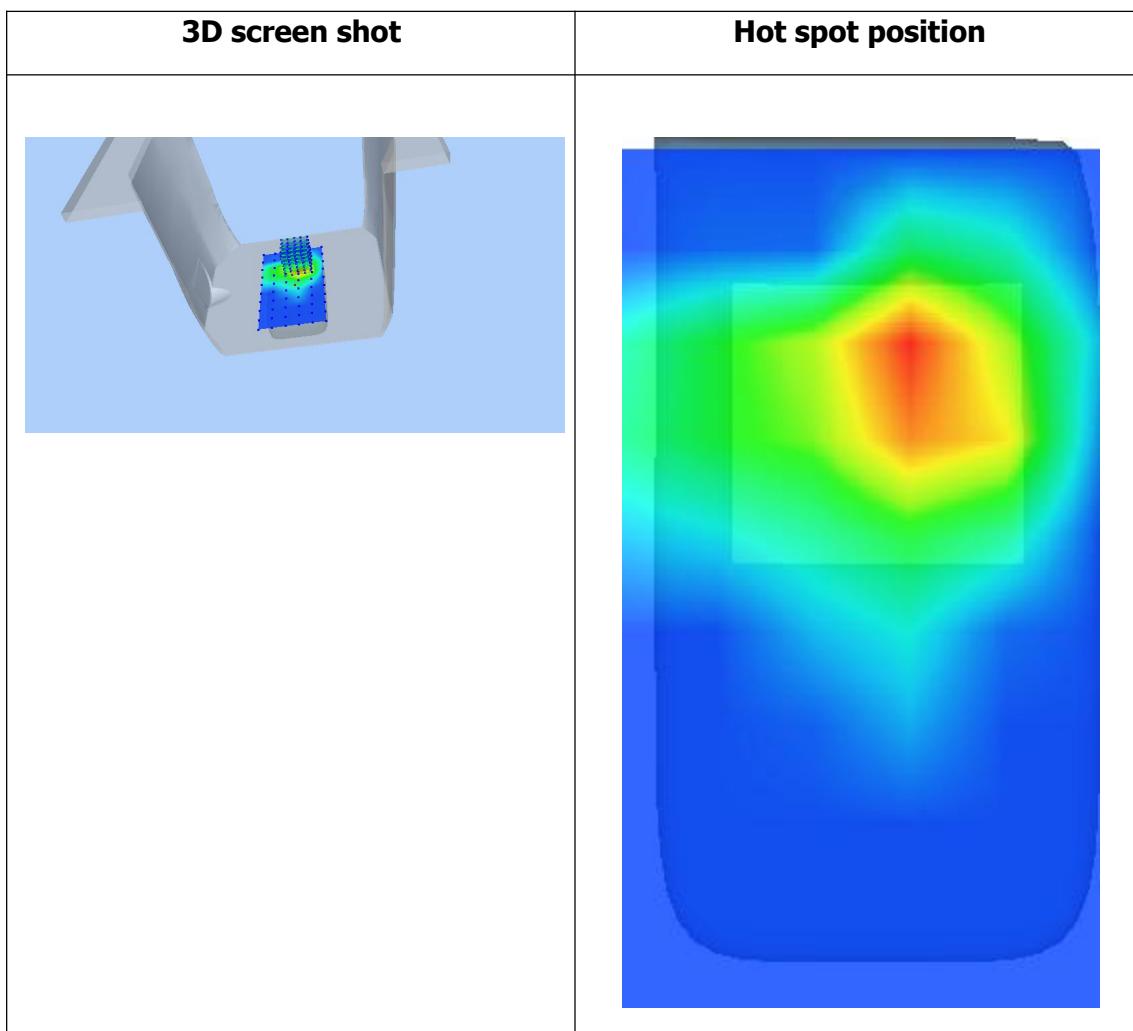
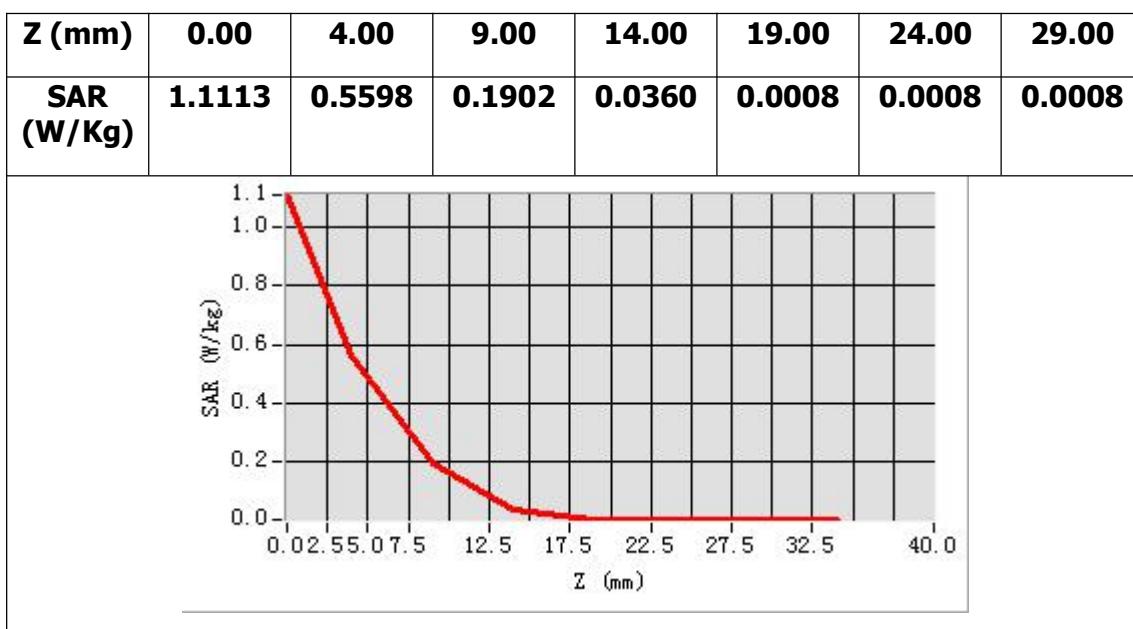
<b>Frequency (MHz)</b>	2437.000000
<b>Relative permittivity (real part)</b>	52.915798
<b>Relative permittivity (imaginary part)</b>	14.315100
<b>Conductivity (S/m)</b>	1.942082
<b>Variation (%)</b>	1.020000



**Maximum location: X=5.00, Y=31.00**

**SAR Peak: 1.24 W/kg**

<b>SAR 10g (W/Kg)</b>	0.066194
<b>SAR 1g (W/Kg)</b>	0.143894



# MEASUREMENT 14

Towards-ground-middle

Type: Phone measurement (Complete)

Date of measurement: 20/8/2016

Measurement duration: 10 minutes 8 seconds

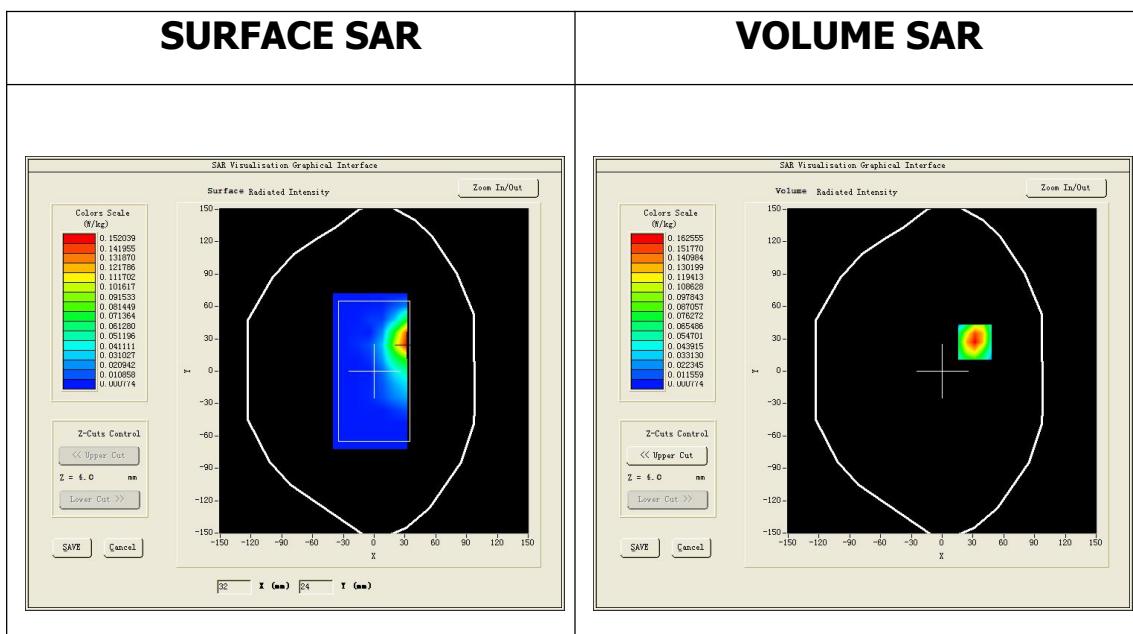
## A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm</u>
<u>ZoomScan</u>	<u>7x8x7,dx=5mm dy=5mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>IEEE 802.11b ISM</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>IEEE802.b (Crest factor: 1.0)</u>
<u>Conversion factor</u>	<u>4.11</u>

## B. SAR Measurement Results

Middle Band SAR (Channel 6):

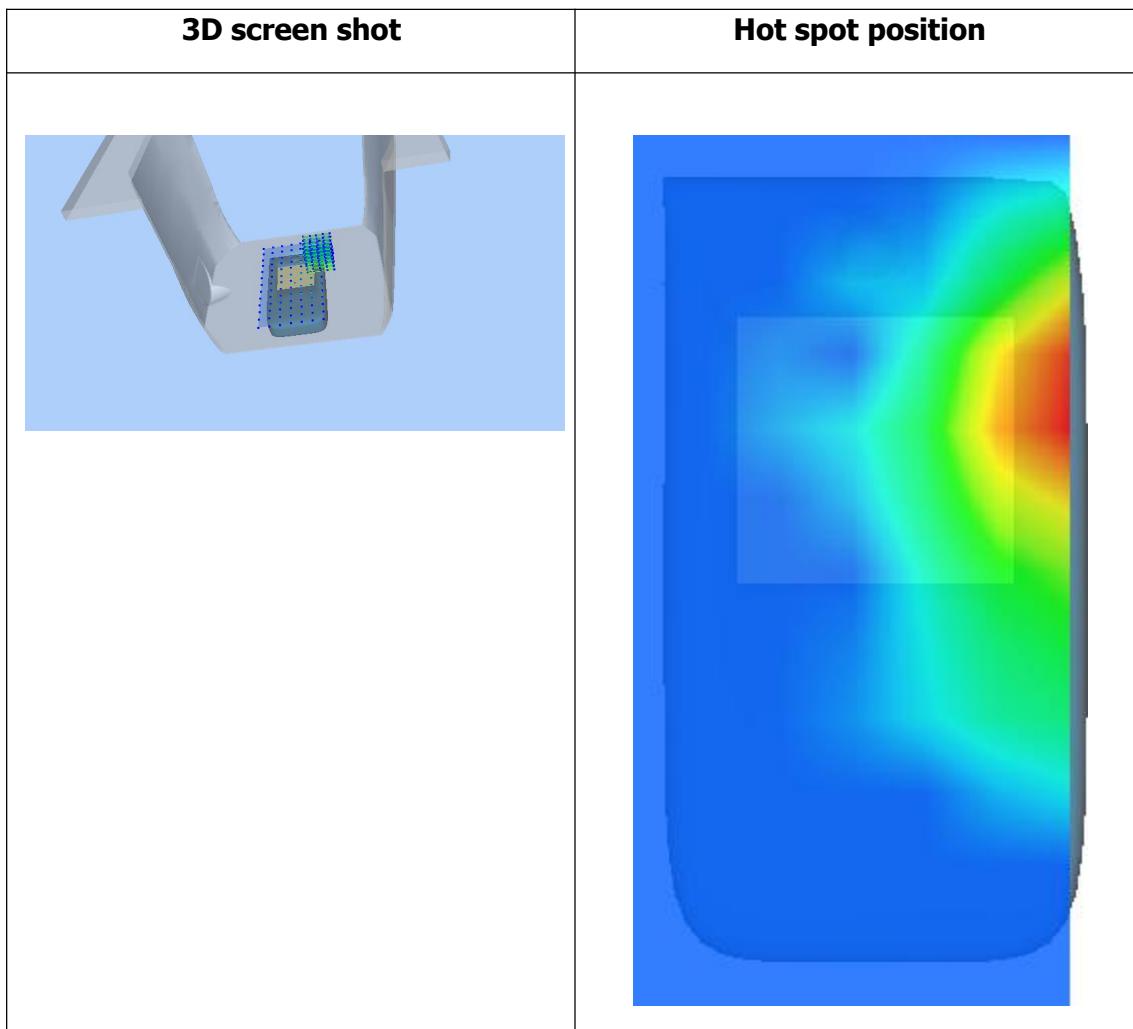
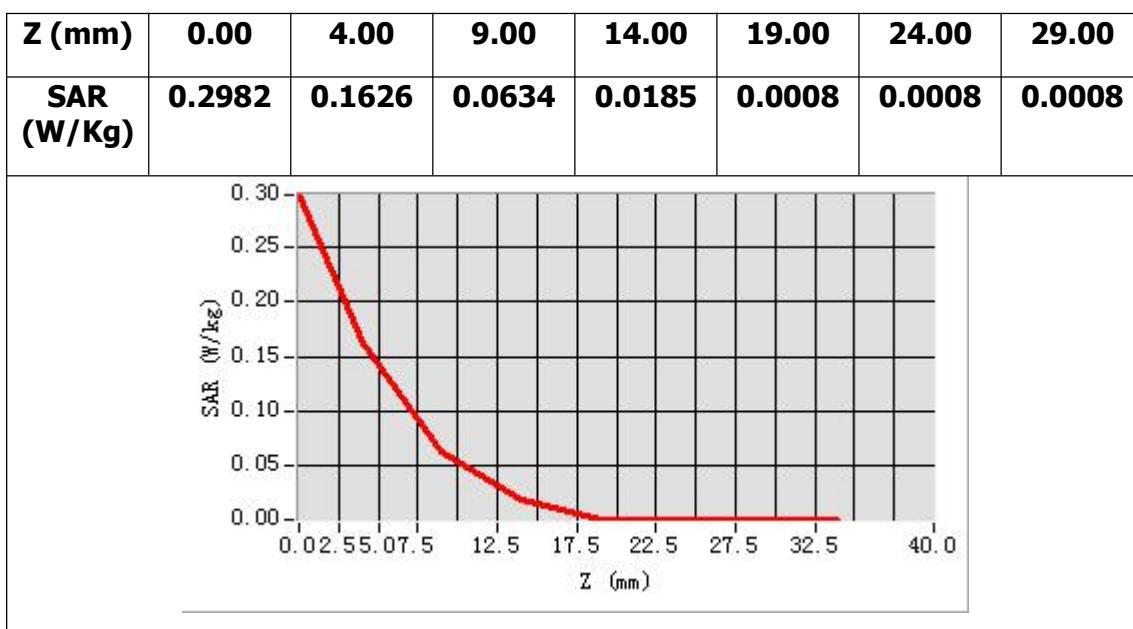
<b>Frequency (MHz)</b>	2437.000000
<b>Relative permittivity (real part)</b>	52.915798
<b>Relative permittivity (imaginary part)</b>	14.315100
<b>Conductivity (S/m)</b>	1.942082
<b>Variation (%)</b>	2.740000



**Maximum location: X=32.00, Y=27.00**

**SAR Peak: 0.33 W/kg**

<b>SAR 10g (W/Kg)</b>	0.069950
<b>SAR 1g (W/Kg)</b>	0.167736



## MEASUREMENT 15

20M-50RB#25

Type: Phone measurement (Complete)

Date of measurement: 24/8/2016

Measurement duration: 9 minutes 32 seconds

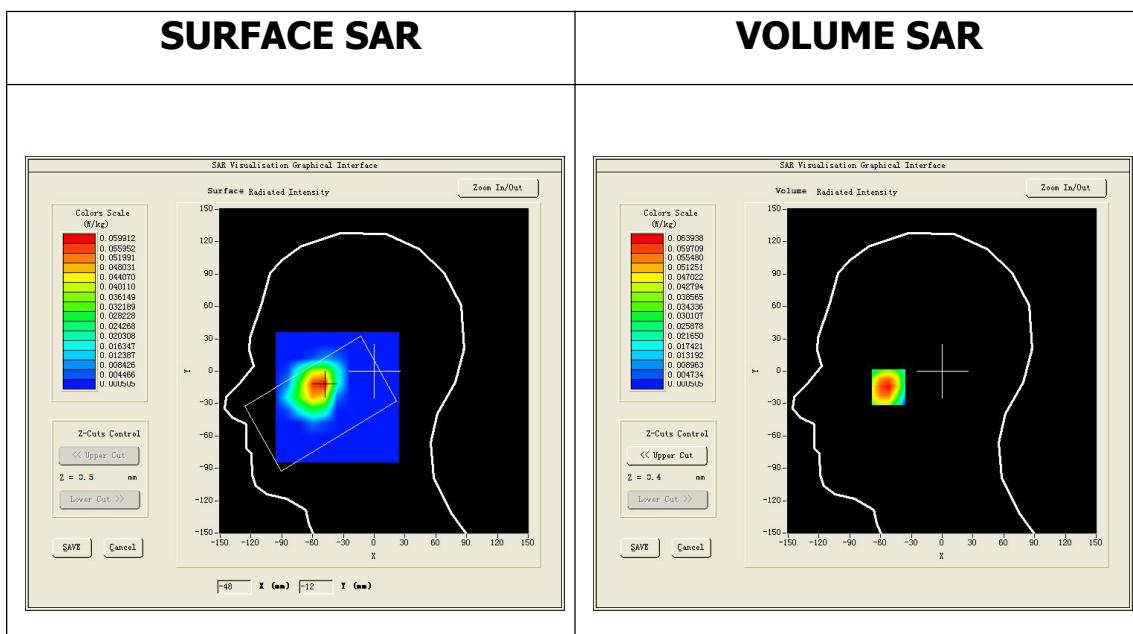
### A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 2</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>Conversion factor</u>	<u>4.63</u>

### B. SAR Measurement Results

Middle Band SAR (Channel 18900):

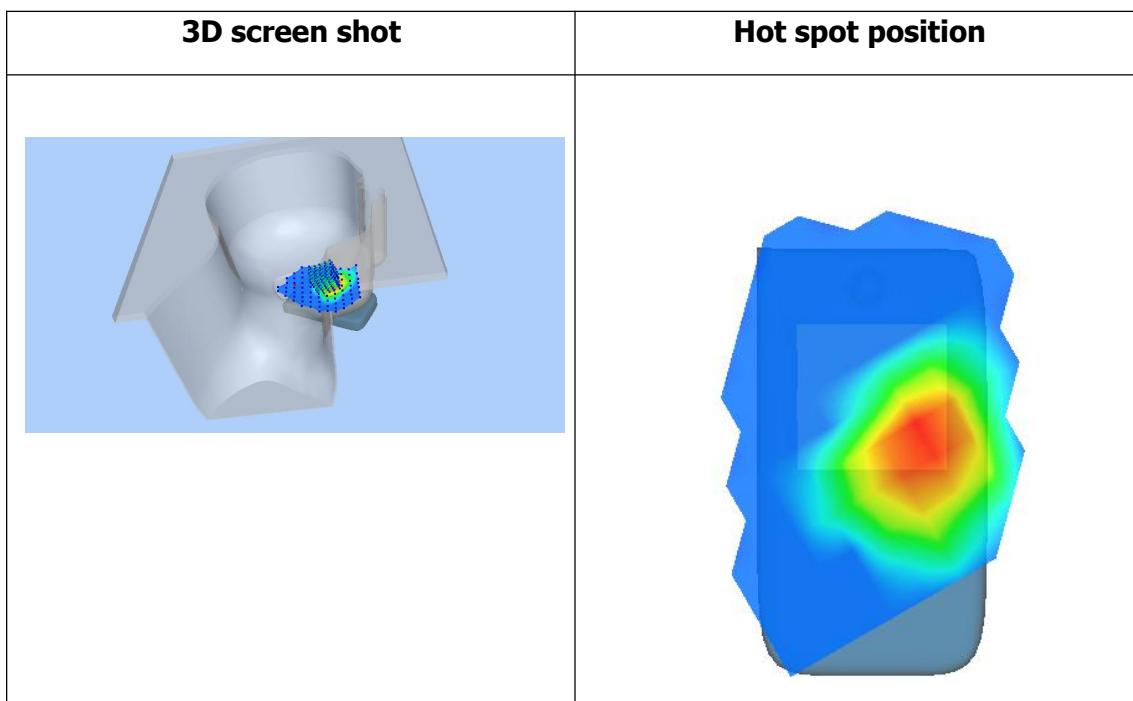
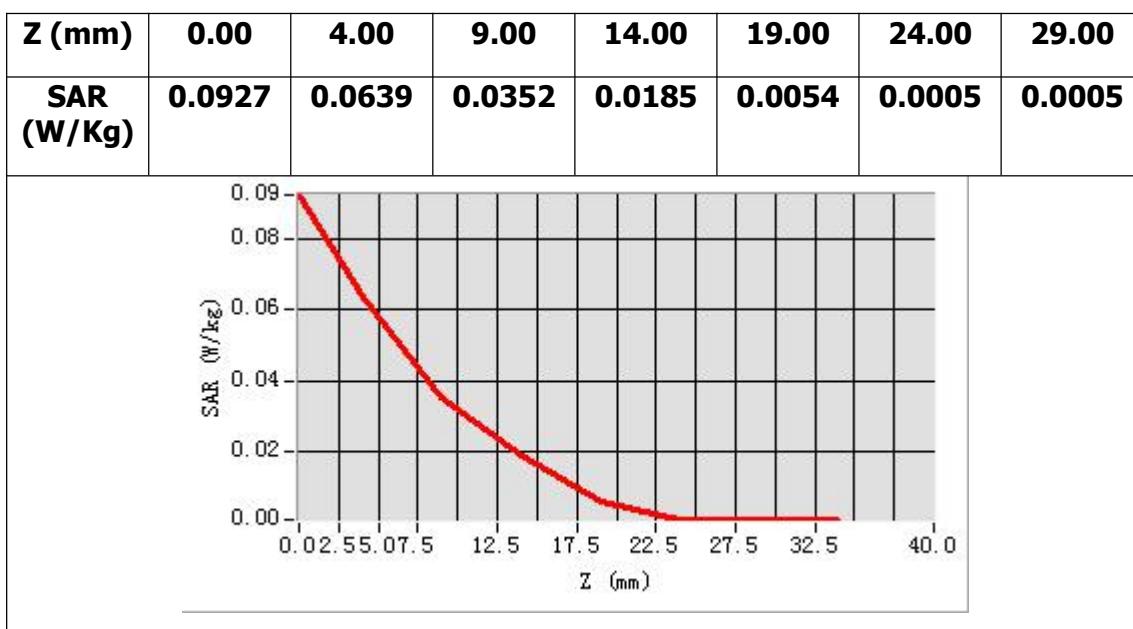
<b>Frequency (MHz)</b>	1880.000000
<b>Relative permittivity (real part)</b>	40.054401
<b>Relative permittivity (imaginary part)</b>	13.497900
<b>Conductivity (S/m)</b>	1.409406
<b>Variation (%)</b>	0.000000



**Maximum location: X=-52.00, Y=-13.00**

**SAR Peak: 0.09 W/kg**

<b>SAR 10g (W/Kg)</b>	0.082276
<b>SAR 1g (W/Kg)</b>	0.160247



# MEASUREMENT 16

Rear-side-20M-1RB#99-middle

Type: Phone measurement (Complete)

Date of measurement: 24/8/2016

Measurement duration: 7 minutes 52 seconds

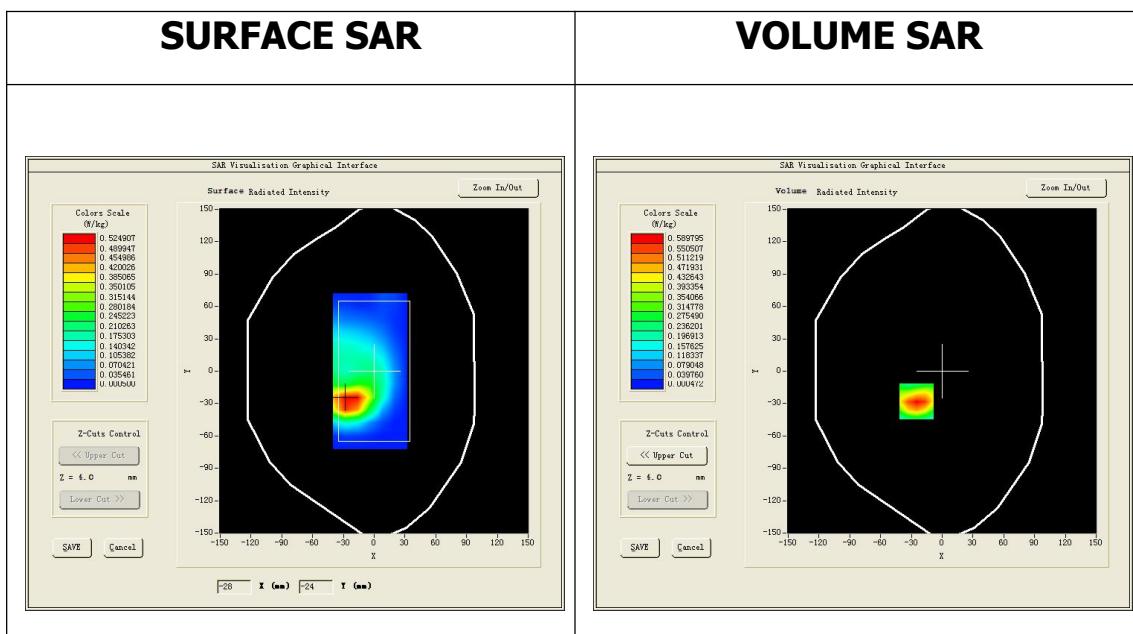
## A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 2</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>Conversion factor</u>	<u>4.78</u>

## B. SAR Measurement Results

Middle Band SAR (Channel 18900):

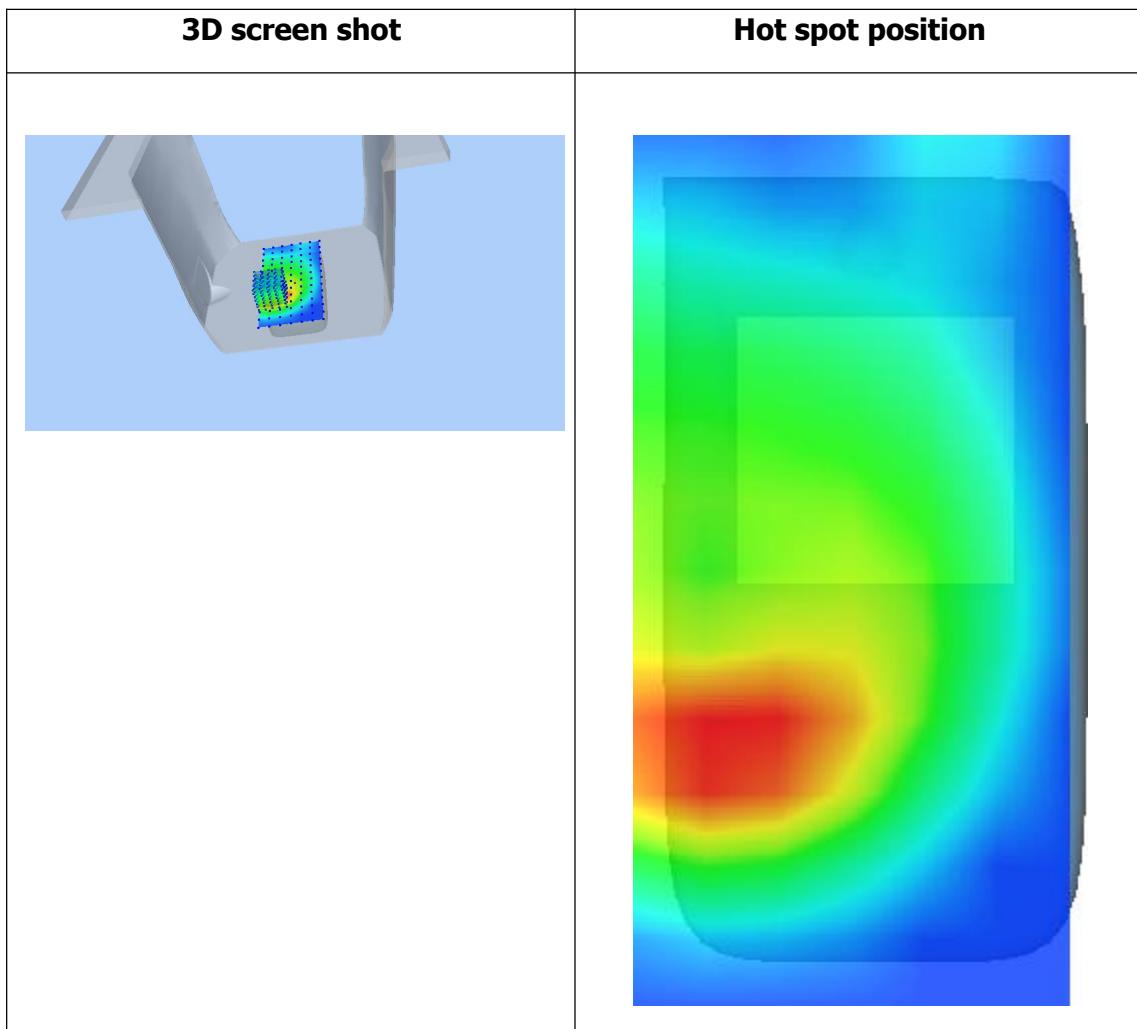
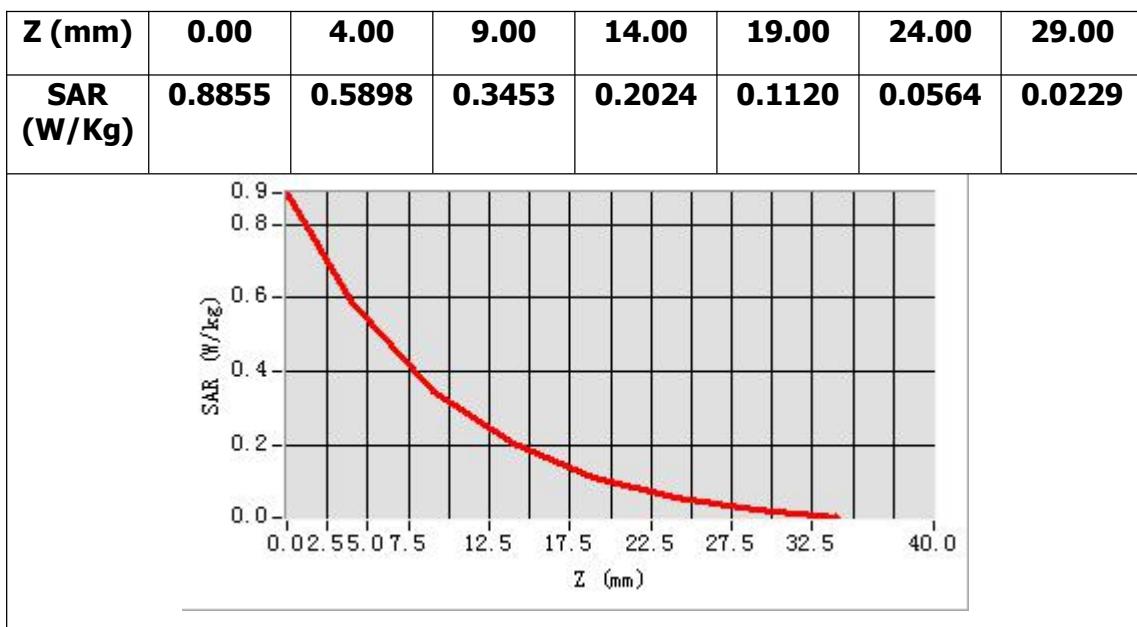
<b>Frequency (MHz)</b>	1880.000000
<b>Relative permittivity (real part)</b>	52.254398
<b>Relative permittivity (imaginary part)</b>	14.597900
<b>Conductivity (S/m)</b>	1.524264
<b>Variation (%)</b>	-2.200000



**Maximum location: X=-25.00, Y=-28.00**

**SAR Peak: 0.89 W/kg**

<b>SAR 10g (W/Kg)</b>	0.098432
<b>SAR 1g (W/Kg)</b>	0.157919



# MEASUREMENT 17

Towards- Ground-20M-1RB#99-middle

Type: Phone measurement (Complete)

Date of measurement: 24/8/2016

Measurement duration: 8 minutes 18 seconds

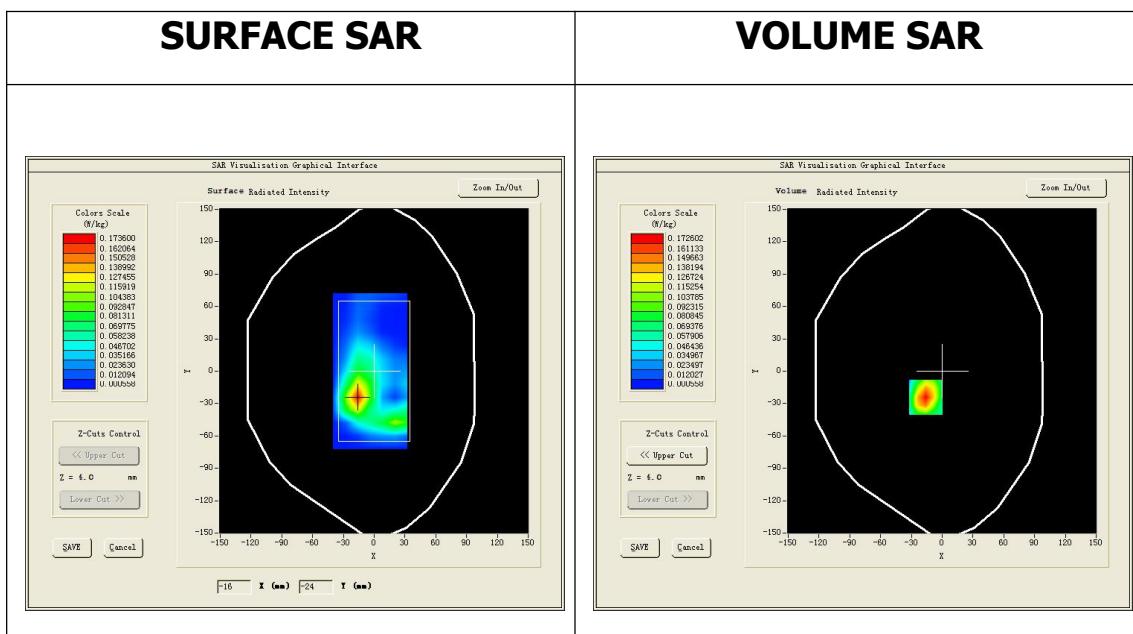
## A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 2</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>Conversion factor</u>	<u>4.78</u>

## B. SAR Measurement Results

Middle Band SAR (Channel 18900):

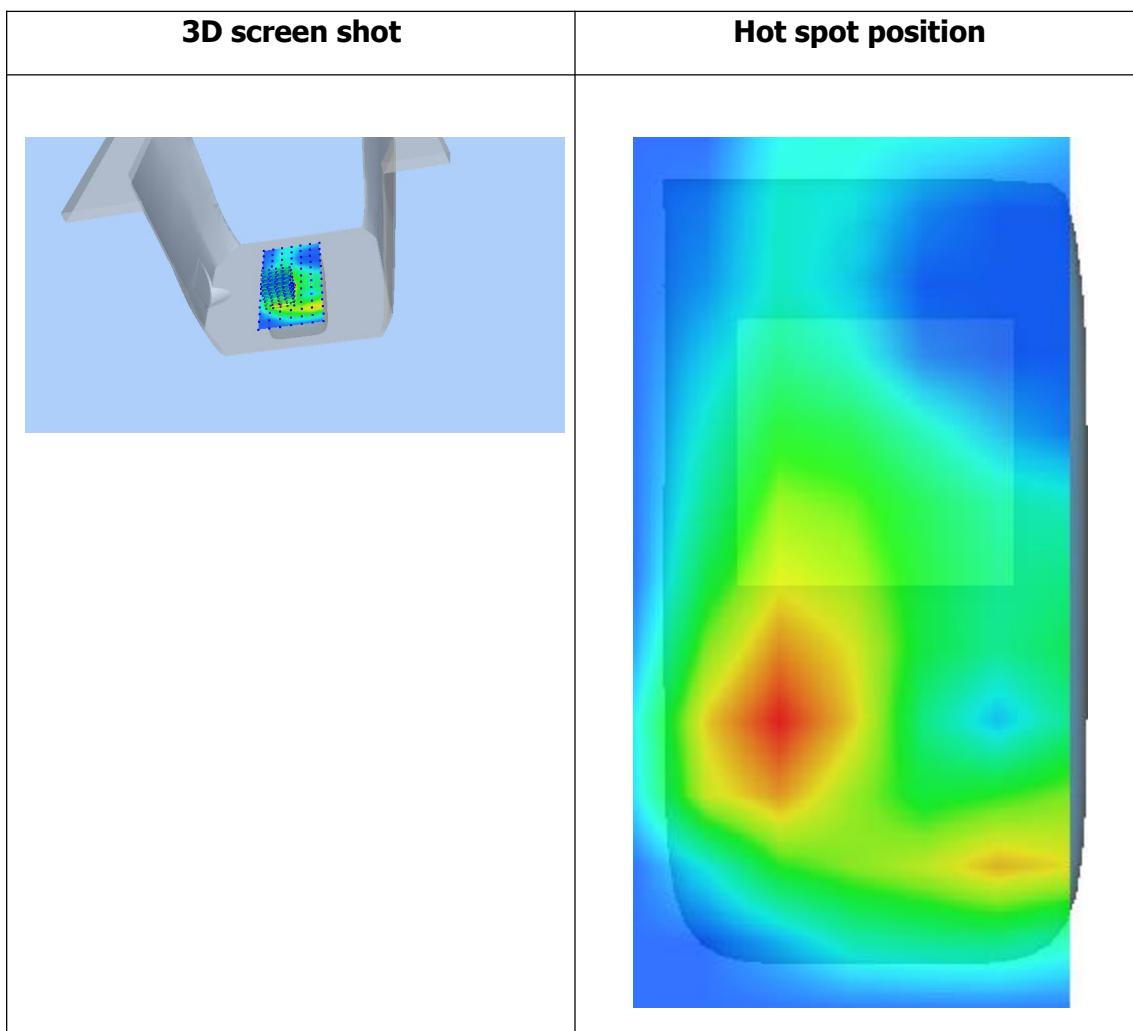
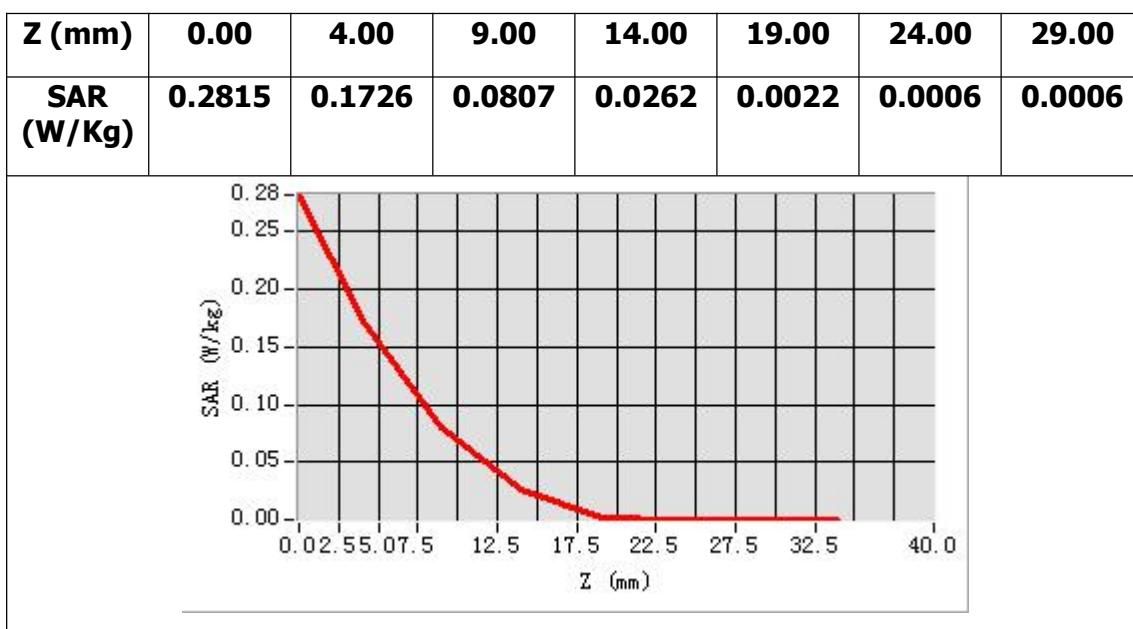
<b>Frequency (MHz)</b>	1880.000000
<b>Relative permittivity (real part)</b>	52.254398
<b>Relative permittivity (imaginary part)</b>	14.597900
<b>Conductivity (S/m)</b>	1.524264
<b>Variation (%)</b>	0.110000



**Maximum location: X=-16.00, Y=-24.00**

**SAR Peak: 0.30 W/kg**

<b>SAR 10g (W/Kg)</b>	0.068399
<b>SAR 1g (W/Kg)</b>	0.160054



# MEASUREMENT 18

20M-50RB#50

Type: Phone measurement (Complete)

Date of measurement: 27/8/2016

Measurement duration: 9 minutes 56 seconds

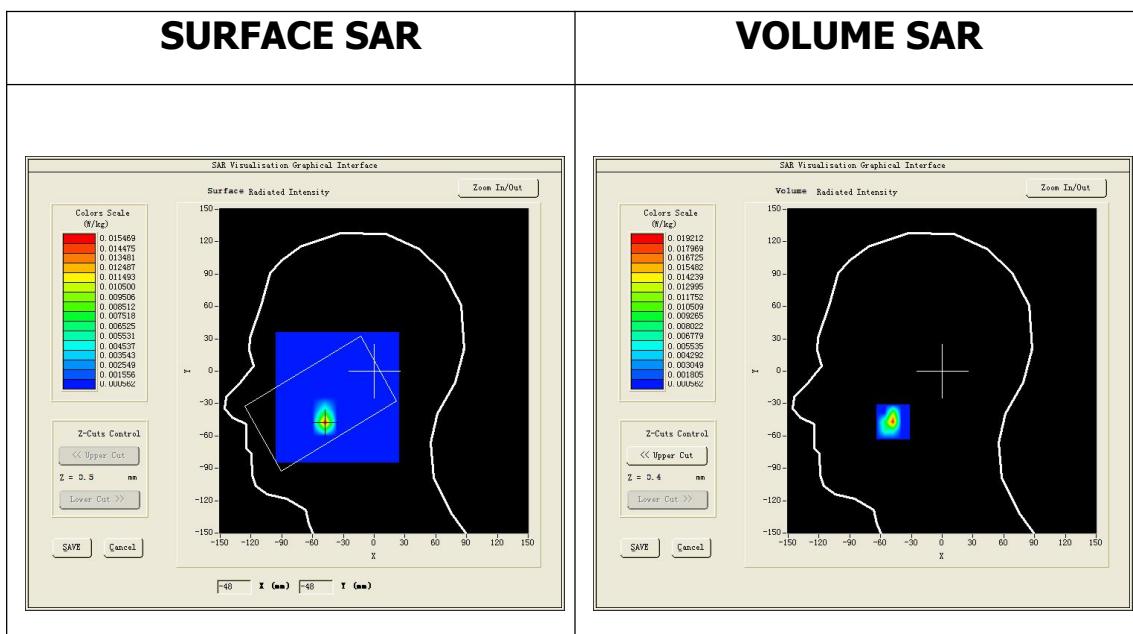
## **A. Experimental conditions.**

<b><u>Area Scan</u></b>	<u>dx=15mm dy=15mm</u>
<b><u>ZoomScan</u></b>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<b><u>Phantom</u></b>	<u>Right head</u>
<b><u>Device Position</u></b>	<u>Cheek</u>
<b><u>Band</u></b>	<u>LTE band 3</u>
<b><u>Channels</u></b>	<u>Middle</u>
<b><u>Signal</u></b>	<u>LTE (Crest factor: 1.0)</u>
<b><u>Conversion factor</u></b>	<u>4.01</u>

## **B. SAR Measurement Results**

Middle Band SAR (Channel 19575):

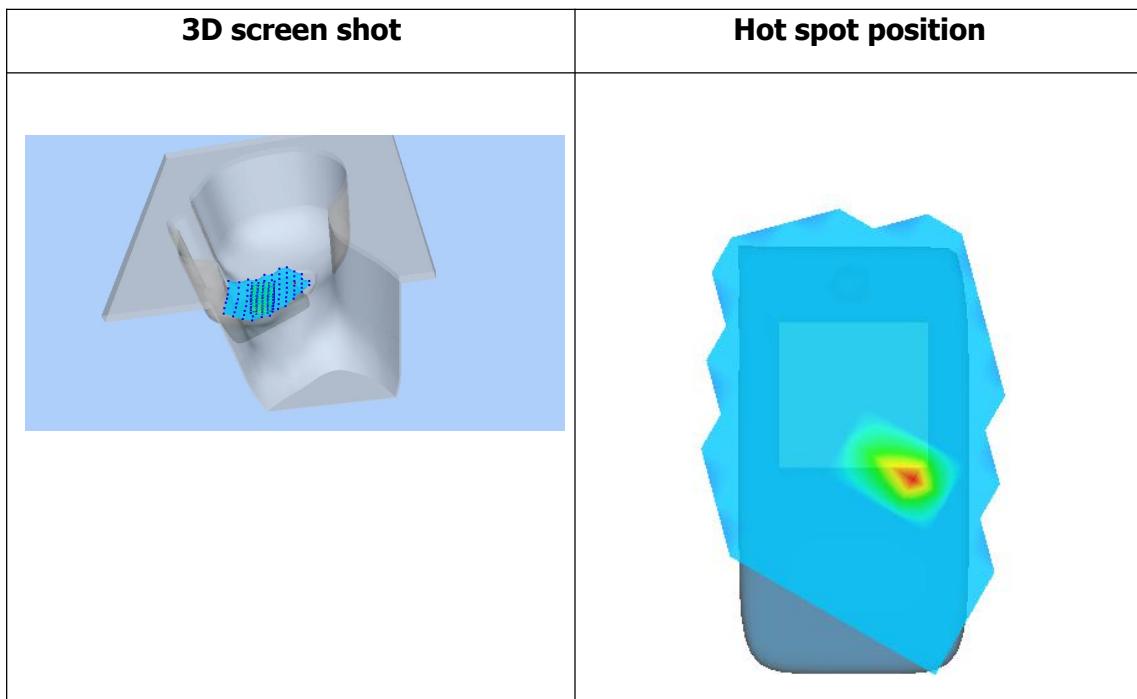
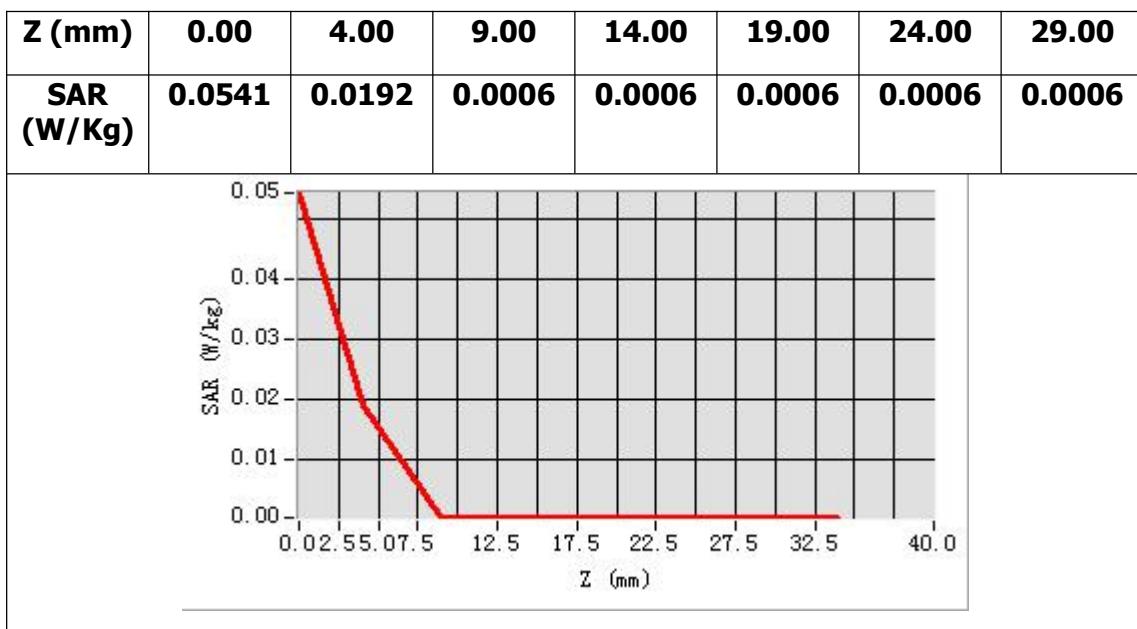
<b>Frequency (MHz)</b>	1747.500000
<b>Relative permittivity (real part)</b>	39.696999
<b>Relative permittivity (imaginary part)</b>	14.010100
<b>Conductivity (S/m)</b>	1.359758
<b>Variation (%)</b>	0.000000



**Maximum location: X=-48.00, Y=-47.00**

**SAR Peak: 0.05 W/kg**

<b>SAR 10g (W/Kg)</b>	0.024807
<b>SAR 1g (W/Kg)</b>	0.075150



# MEASUREMENT 19

Left-edge-20M-50RB#50-middle

Type: Phone measurement (Complete)

Date of measurement: 27/8/2016

Measurement duration: 15 minutes 4 seconds

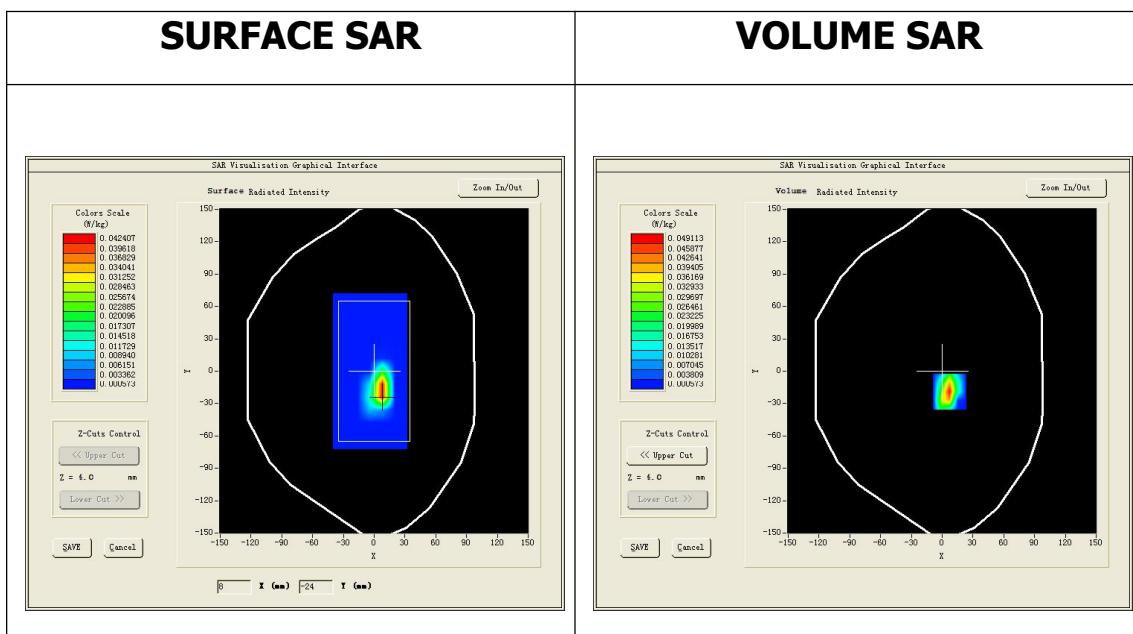
## A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 3</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>Conversion factor</u>	<u>4.16</u>

## B. SAR Measurement Results

Middle Band SAR (Channel 19575):

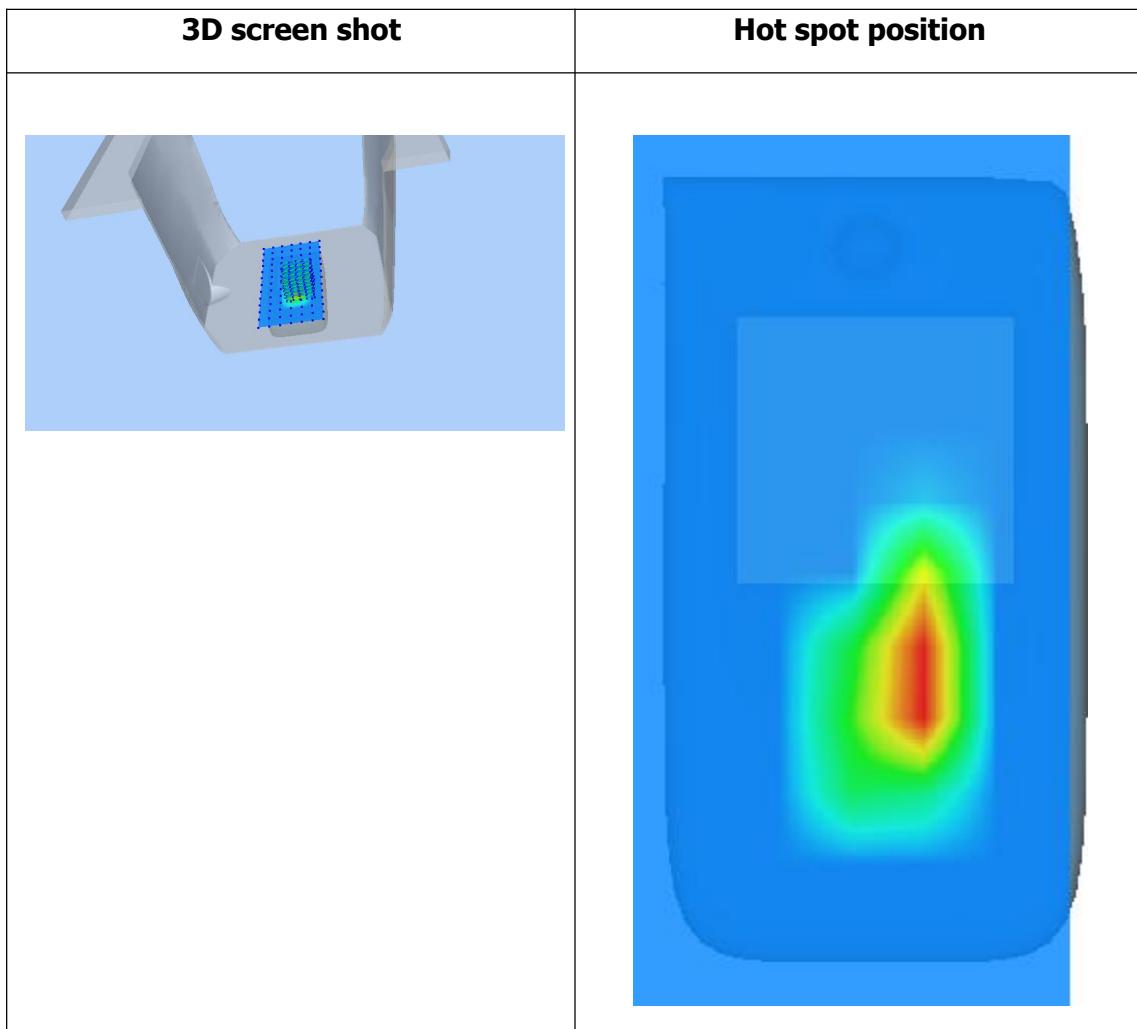
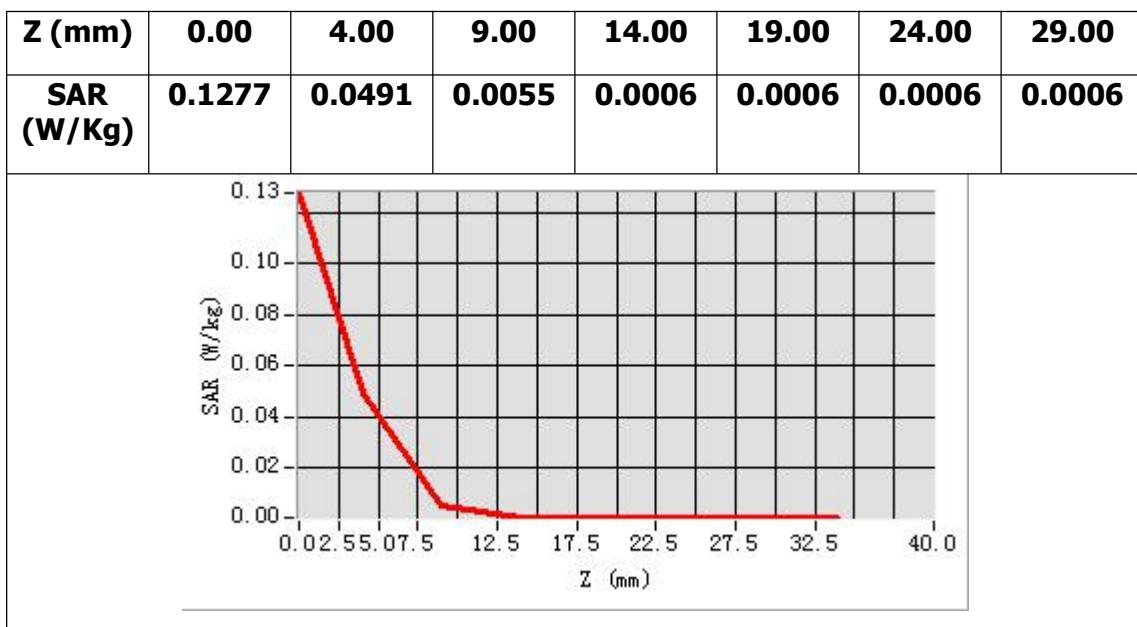
<b>Frequency (MHz)</b>	1747.500000
<b>Relative permittivity (real part)</b>	53.248402
<b>Relative permittivity (imaginary part)</b>	14.671700
<b>Conductivity (S/m)</b>	1.423970
<b>Variation (%)</b>	3.740000



**Maximum location: X=7.00, Y=-19.00**

**SAR Peak: 0.14 W/kg**

<b>SAR 10g (W/Kg)</b>	0.084580
<b>SAR 1g (W/Kg)</b>	0.303955



# MEASUREMENT 20

Towards-ground-20M-1%RB#99-middle

Type: Phone measurement (Complete)

Date of measurement: 27/8/2016

Measurement duration: 11 minutes 14 seconds

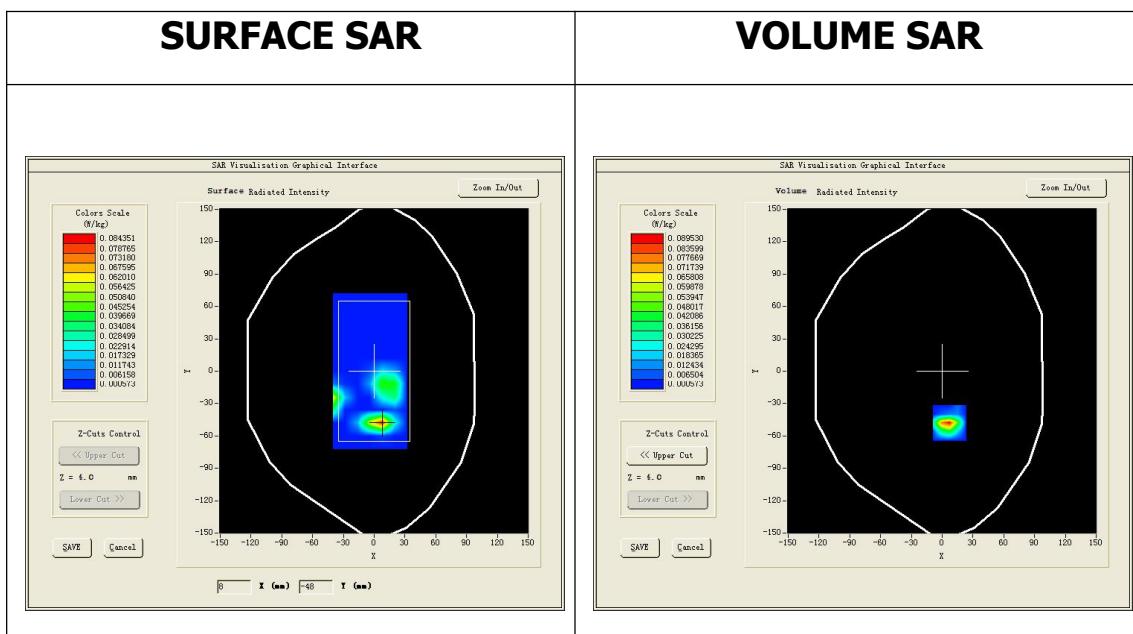
## A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 3</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>Conversion factor</u>	<u>4.16</u>

## B. SAR Measurement Results

Middle Band SAR (Channel 19575):

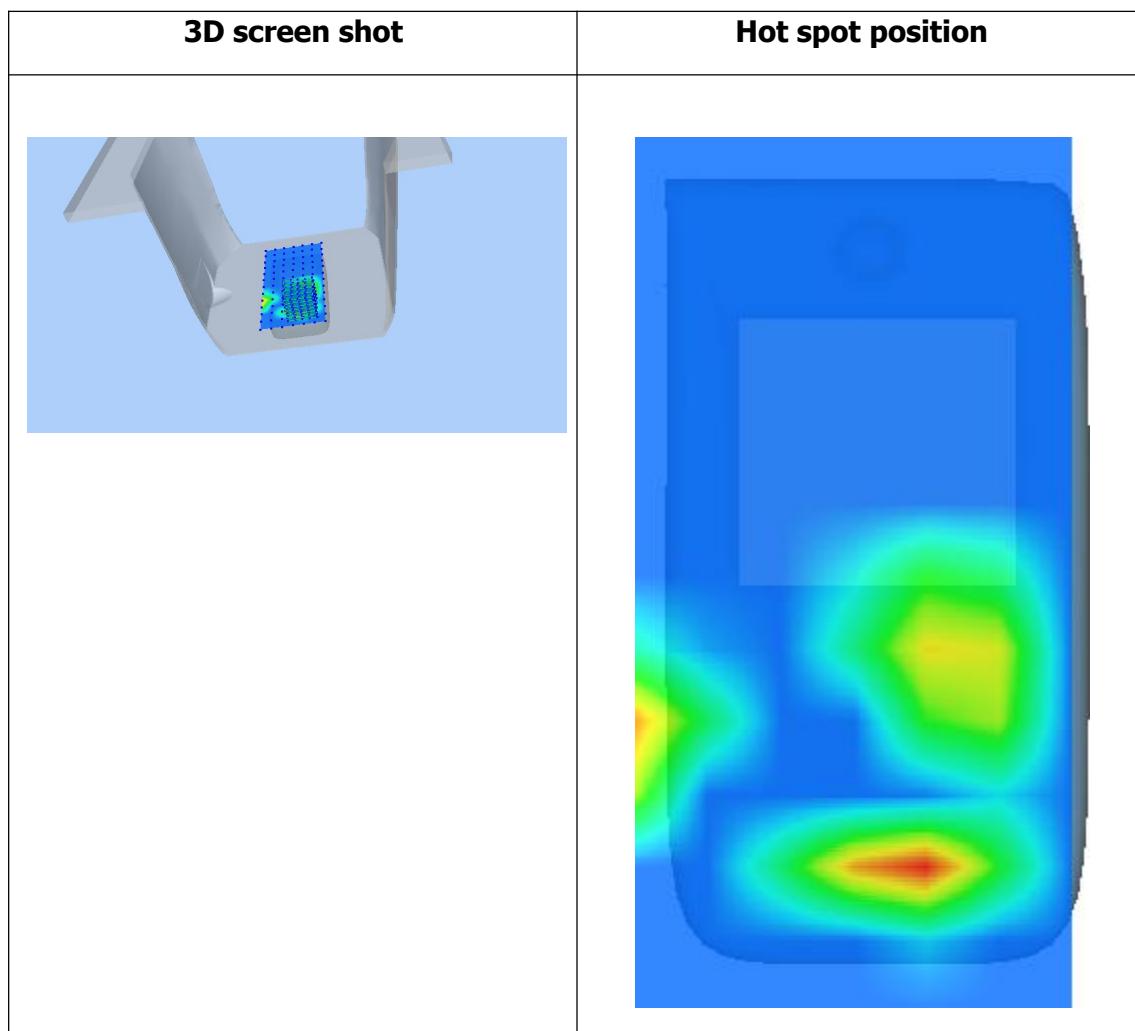
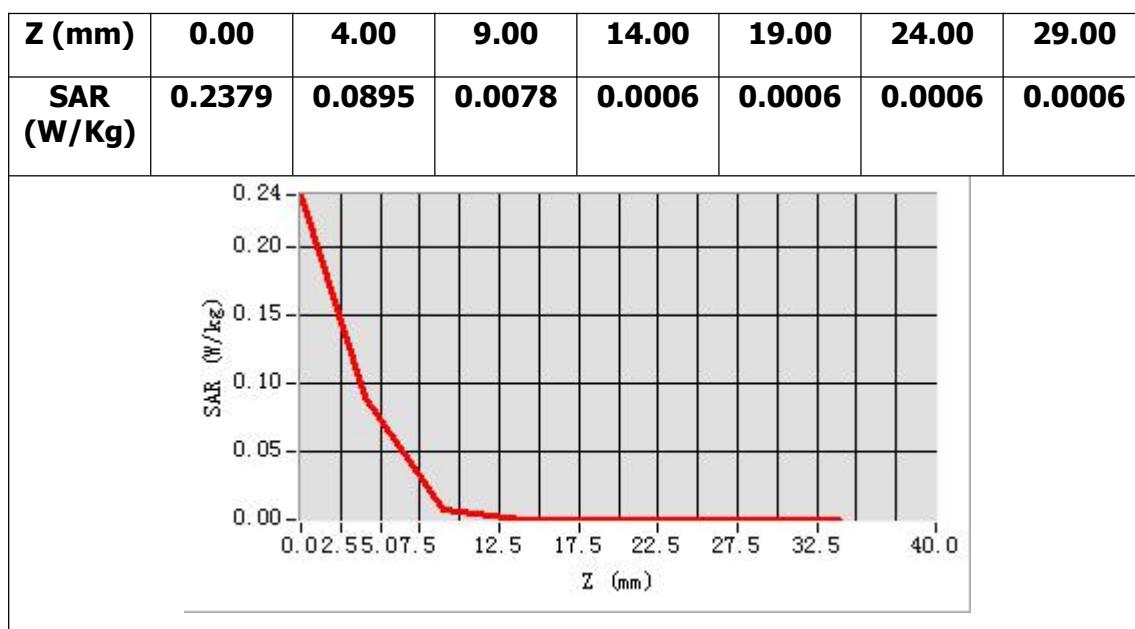
<b>Frequency (MHz)</b>	1747.500000
<b>Relative permittivity (real part)</b>	53.248402
<b>Relative permittivity (imaginary part)</b>	14.671700
<b>Conductivity (S/m)</b>	1.423970
<b>Variation (%)</b>	3.930000



**Maximum location: X=7.00, Y=-48.00**

**SAR Peak: 0.26 W/kg**

<b>SAR 10g (W/Kg)</b>	0.021716
<b>SAR 1g (W/Kg)</b>	0.091331



# MEASUREMENT 21

20M-1RB#99

Type: Phone measurement (Complete)

Date of measurement: 27/8/2016

Measurement duration: 9 minutes 49 seconds

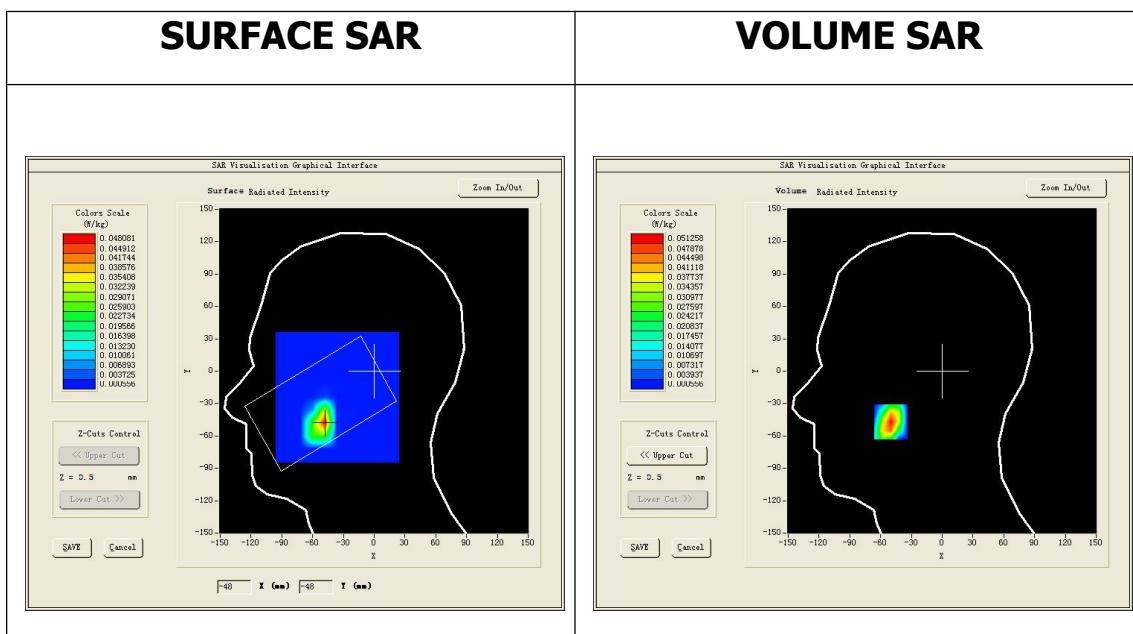
## A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 4</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>Conversion factor</u>	<u>4.01</u>

## B. SAR Measurement Results

Middle Band SAR (Channel 20175):

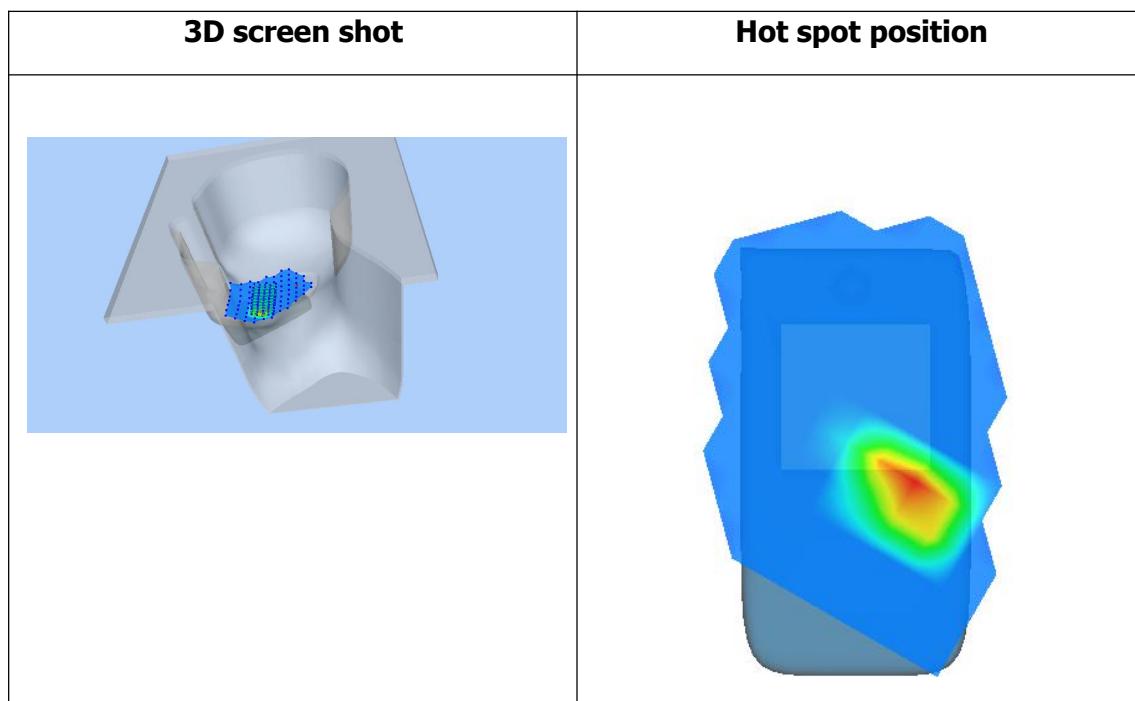
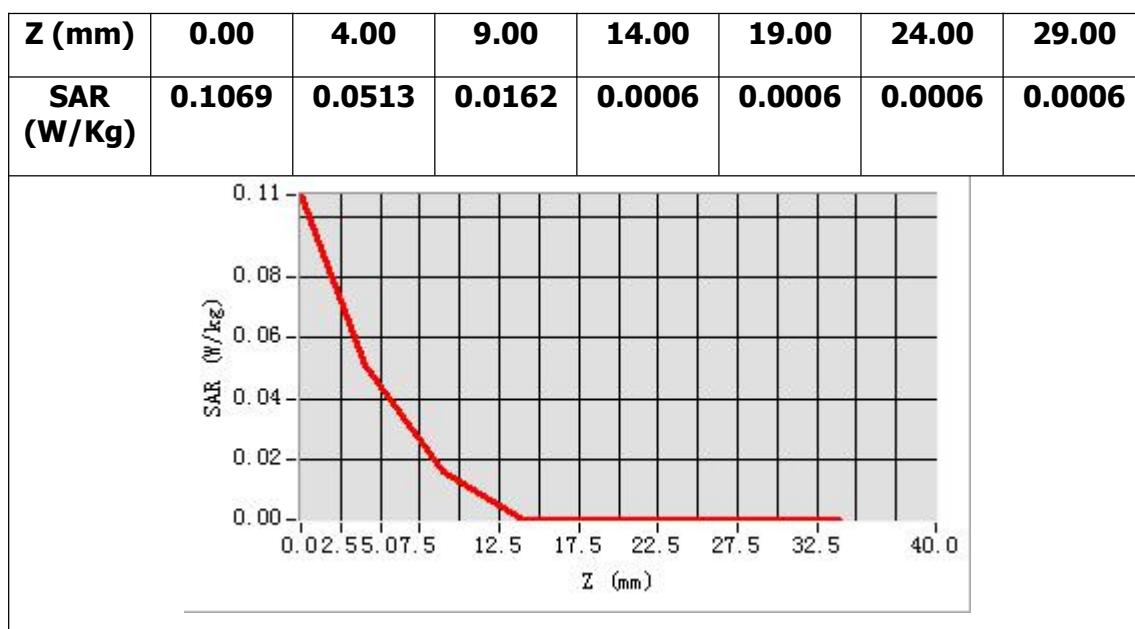
<b>Frequency (MHz)</b>	1732.500000
<b>Relative permittivity (real part)</b>	39.739349
<b>Relative permittivity (imaginary part)</b>	13.991050
<b>Conductivity (S/m)</b>	1.346639
<b>Variation (%)</b>	0.000000



**Maximum location: X=-50.00, Y=-47.00**

**SAR Peak: 0.11 W/kg**

<b>SAR 10g (W/Kg)</b>	0.024343
<b>SAR 1g (W/Kg)</b>	0.065602



## MEASUREMENT 22

Rear-side-20M-1RB#99-middle

Type: Phone measurement (Complete)

Date of measurement: 27/8/2016

Measurement duration: 10 minutes 16 seconds

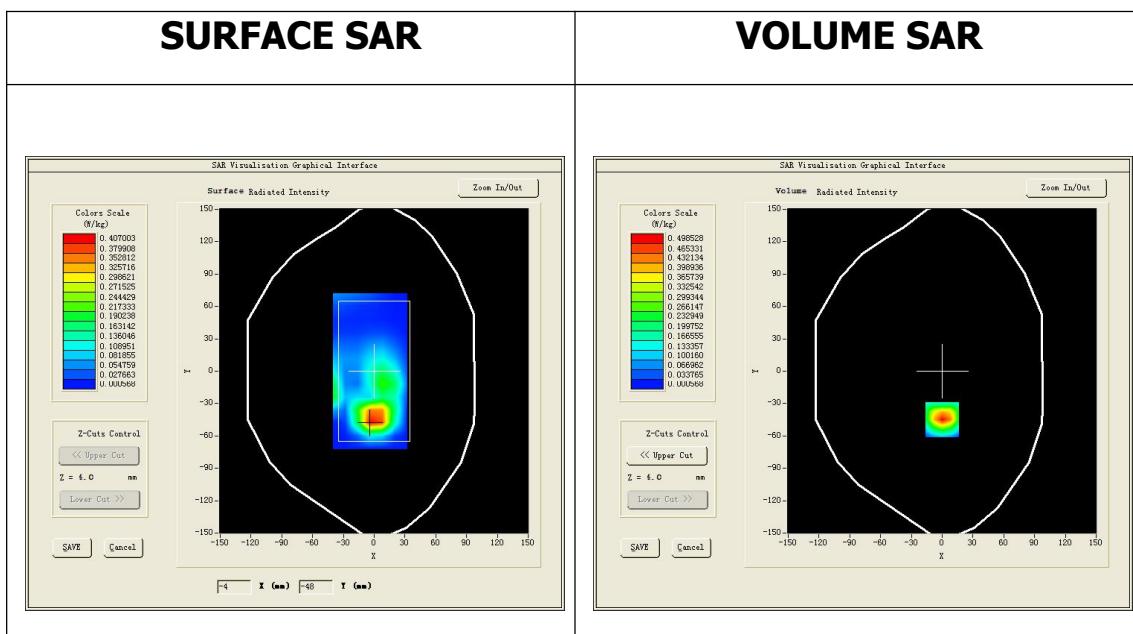
### **A. Experimental conditions.**

<b><u>Area Scan</u></b>	<u>dx=15mm dy=15mm</u>
<b><u>ZoomScan</u></b>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<b><u>Phantom</u></b>	<u>Validation plane</u>
<b><u>Device Position</u></b>	<u>Body</u>
<b><u>Band</u></b>	<u>LTE band 4</u>
<b><u>Channels</u></b>	<u>Middle</u>
<b><u>Signal</u></b>	<u>LTE (Crest factor: 1.0)</u>
<b><u>Conversion factor</u></b>	<u>4.16</u>

### **B. SAR Measurement Results**

Middle Band SAR (Channel 20175):

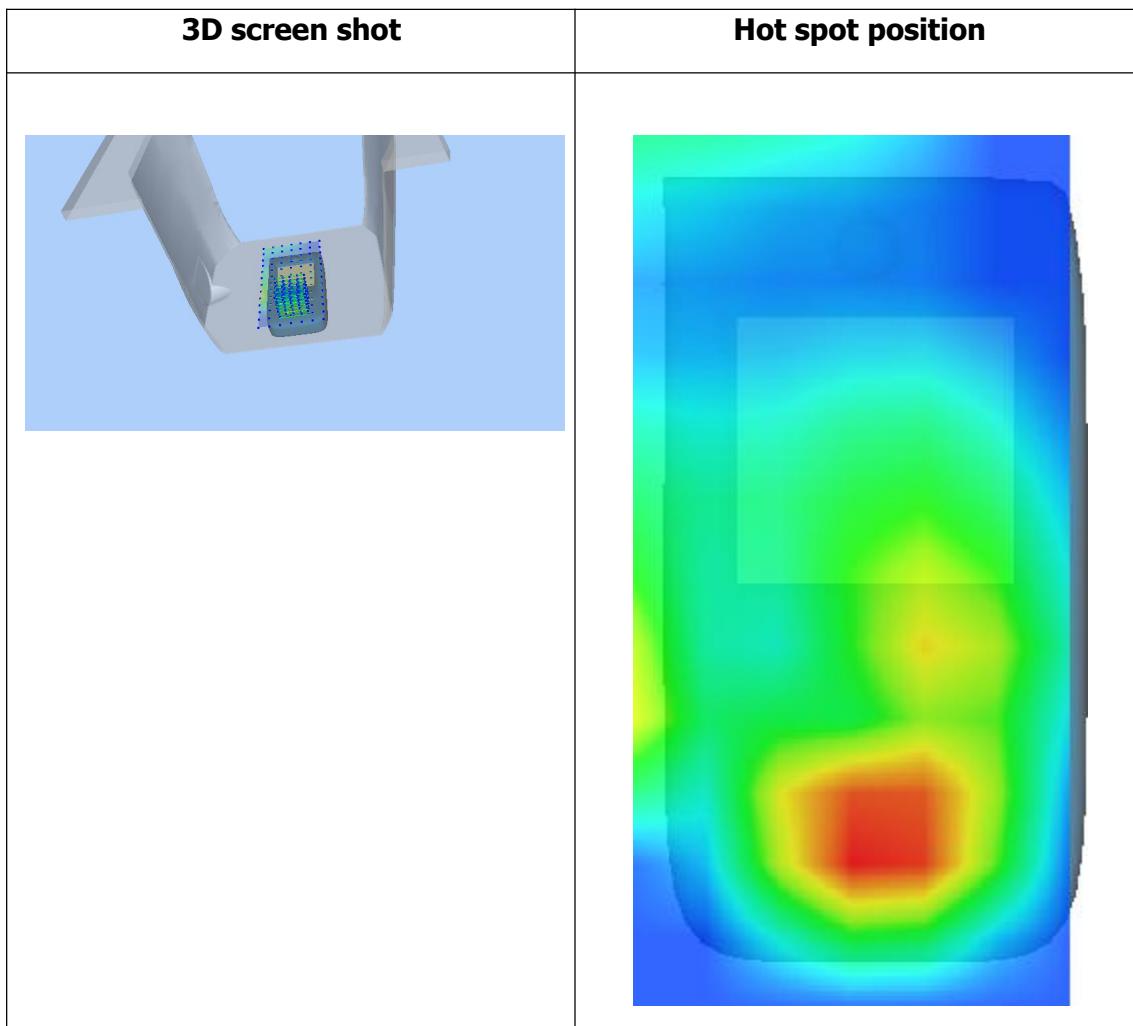
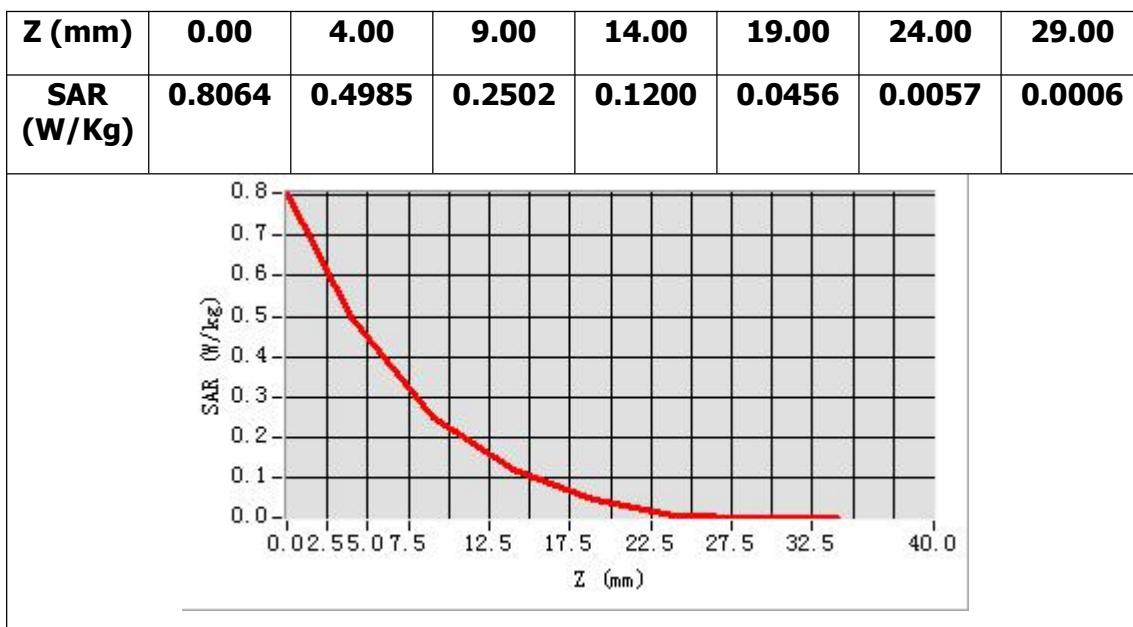
<b>Frequency (MHz)</b>	1732.500000
<b>Relative permittivity (real part)</b>	53.306702
<b>Relative permittivity (imaginary part)</b>	14.680750
<b>Conductivity (S/m)</b>	1.413022
<b>Variation (%)</b>	-0.250000



**Maximum location: X=0.00, Y=-45.00**

**SAR Peak: 0.88 W/kg**

<b>SAR 10g (W/Kg)</b>	0.213769
<b>SAR 1g (W/Kg)</b>	0.485608



# MEASUREMENT 23

Towards-ground-20M-1RB#99-middle

Type: Phone measurement (Complete)

Date of measurement: 27/8/2016

Measurement duration: 10 minutes 15 seconds

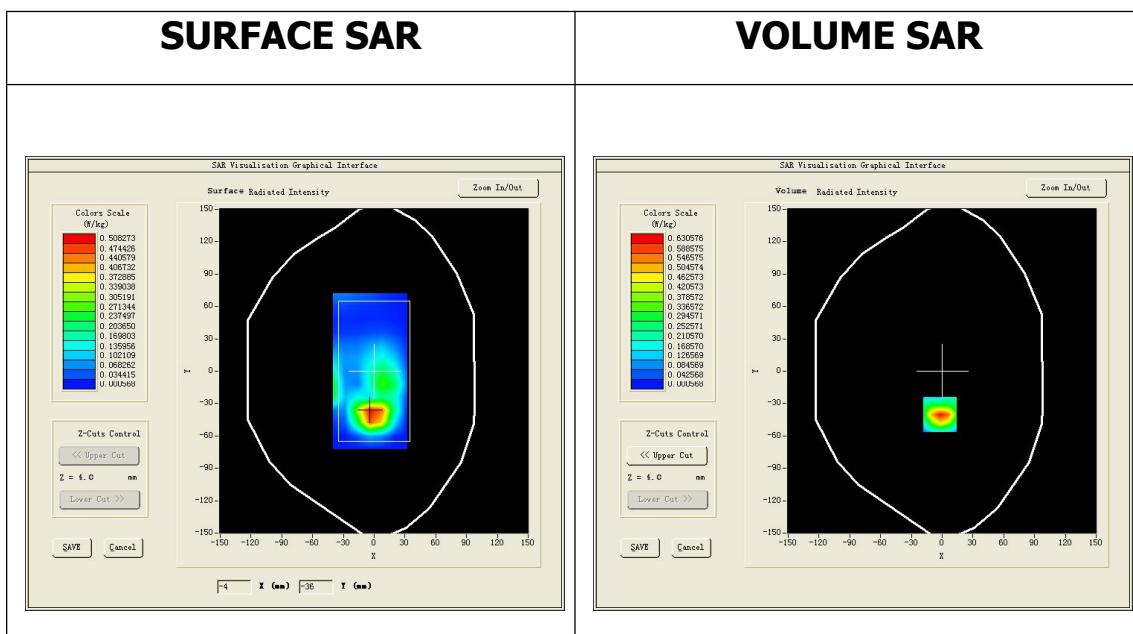
## A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 4</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>Conversion factor</u>	<u>4.16</u>

## B. SAR Measurement Results

Middle Band SAR (Channel 20175):

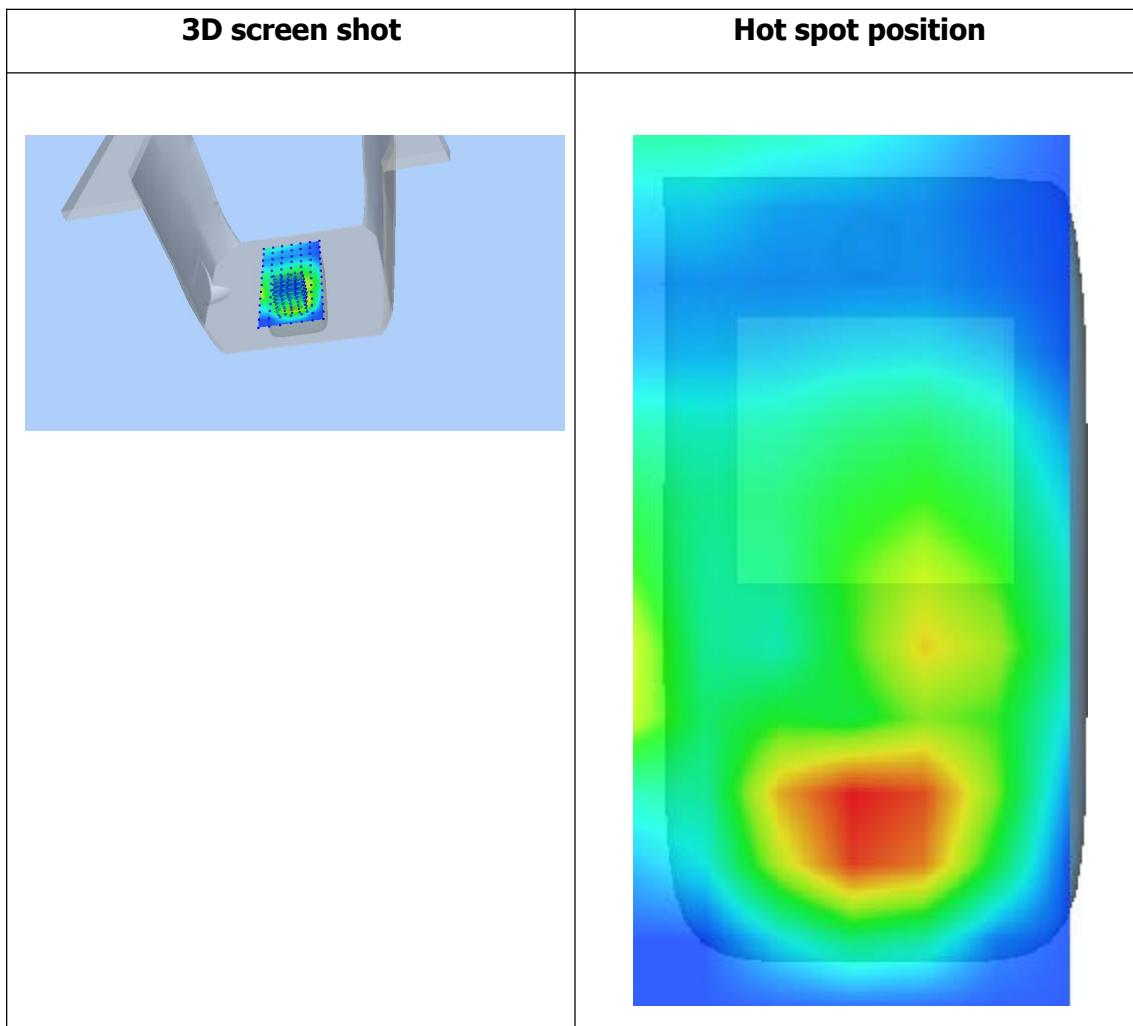
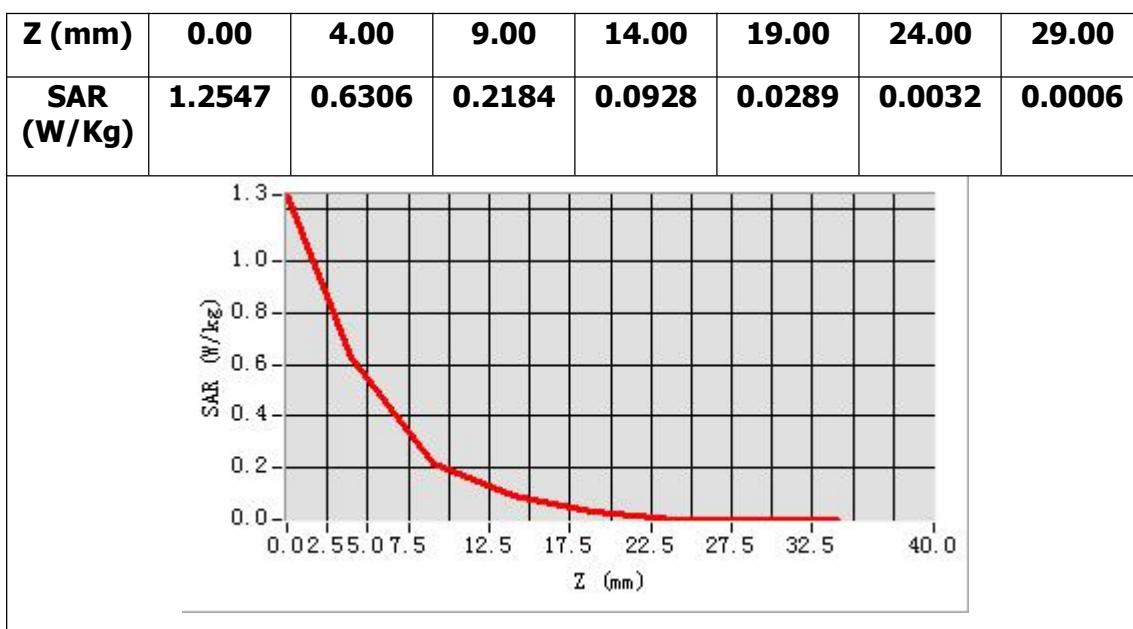
<b>Frequency (MHz)</b>	1732.500000
<b>Relative permittivity (real part)</b>	53.306702
<b>Relative permittivity (imaginary part)</b>	14.680750
<b>Conductivity (S/m)</b>	1.413022
<b>Variation (%)</b>	2.250000



**Maximum location: X=-2.00, Y=-40.00**

**SAR Peak: 1.30 W/kg**

<b>SAR 10g (W/Kg)</b>	0.252615
<b>SAR 1g (W/Kg)</b>	0.434132



# MEASUREMENT 24

20M-50RB#25

Type: Phone measurement (Complete)

Date of measurement: 29/8/2016

Measurement duration: 11 minutes 44 seconds

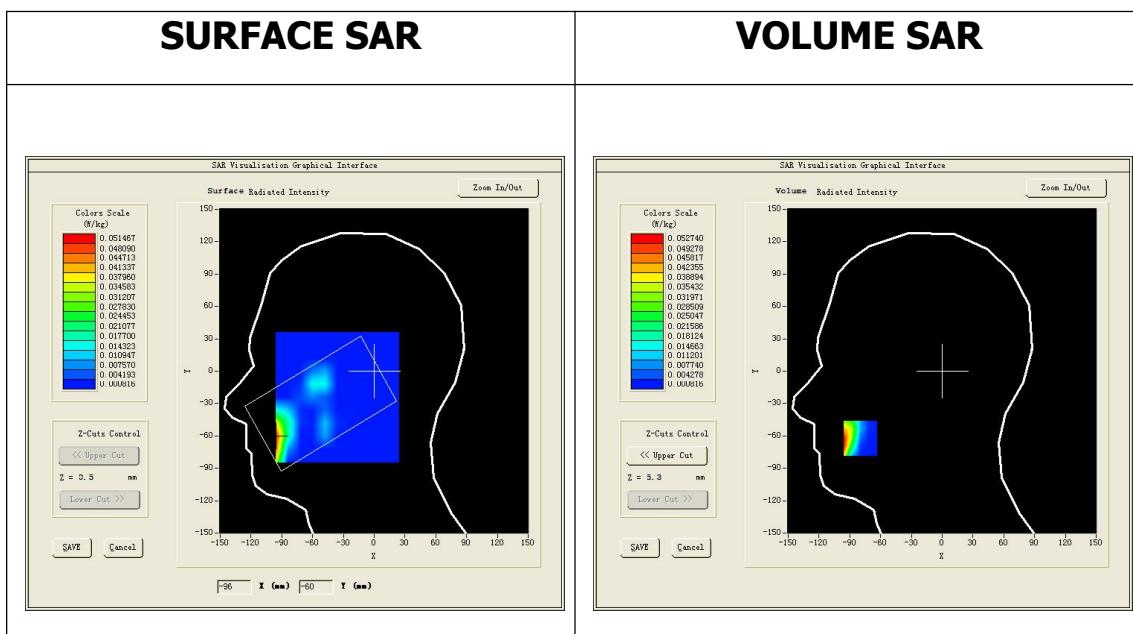
## A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 7</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>Conversion factor</u>	<u>3.92</u>

## B. SAR Measurement Results

Middle Band SAR (Channel 21100):

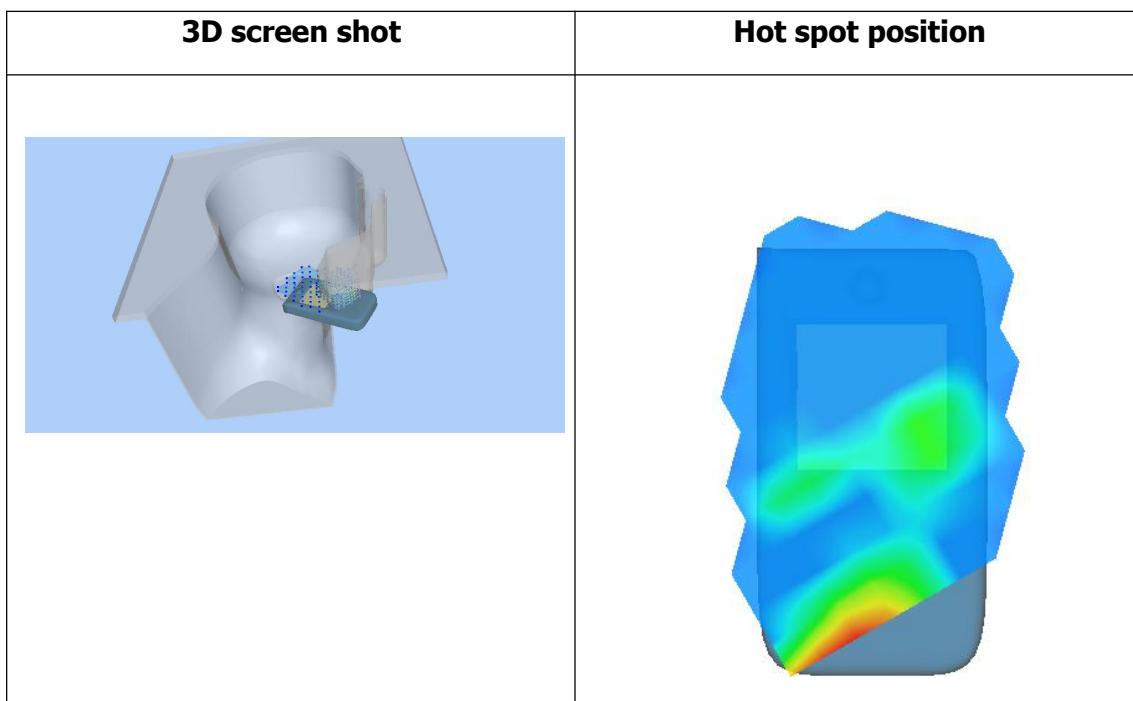
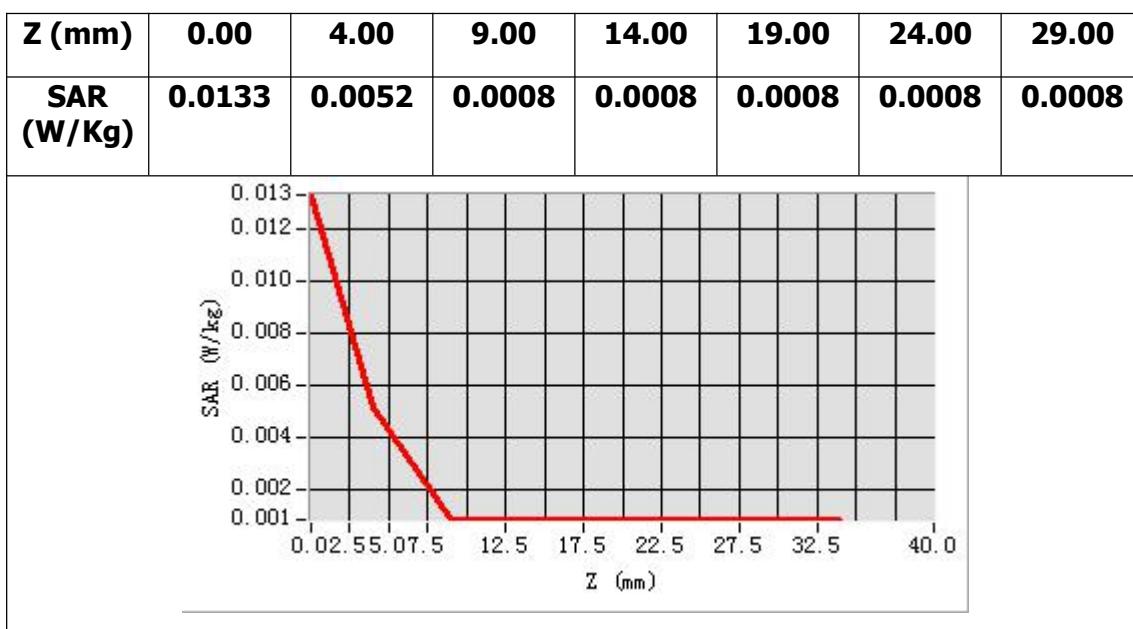
<b>Frequency (MHz)</b>	2535.000000
<b>Relative permittivity (real part)</b>	39.062801
<b>Relative permittivity (imaginary part)</b>	13.774200
<b>Conductivity (S/m)</b>	1.939867
<b>Variation (%)</b>	0.000000



**Maximum location: X=-80.00, Y=-62.00**

**SAR Peak: 0.23 W/kg**

<b>SAR 10g (W/Kg)</b>	0.074113
<b>SAR 1g (W/Kg)</b>	0.133824



# MEASUREMENT 25

Rear-side-20M-1RB#50-middle

Type: Phone measurement (Complete)

Date of measurement: 29/8/2016

Measurement duration: 8 minutes 24 seconds

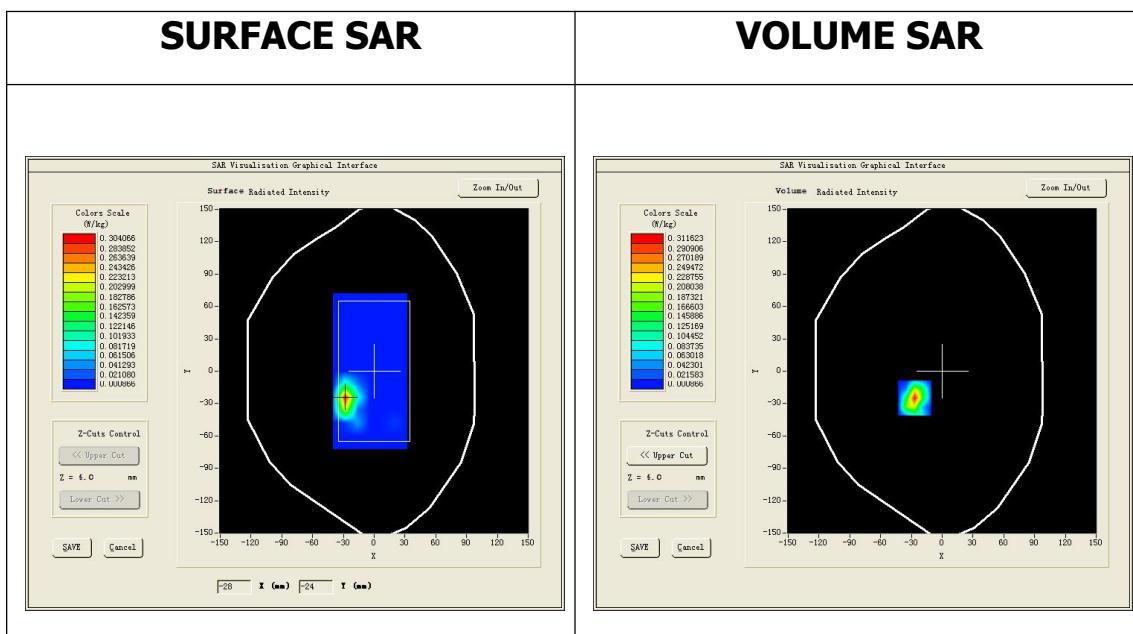
## A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 7</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>Conversion factor</u>	<u>4.07</u>

## B. SAR Measurement Results

Middle Band SAR (Channel 21100):

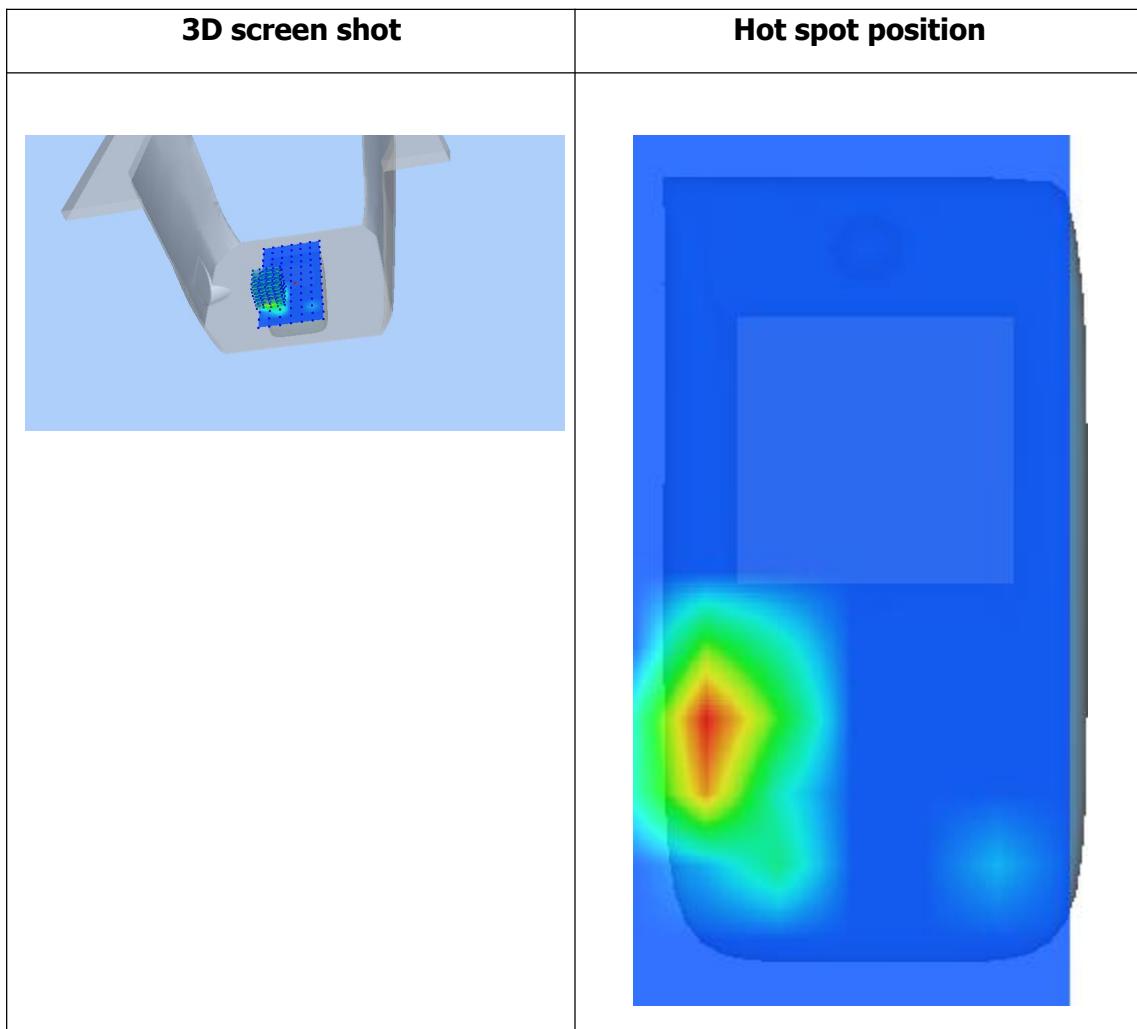
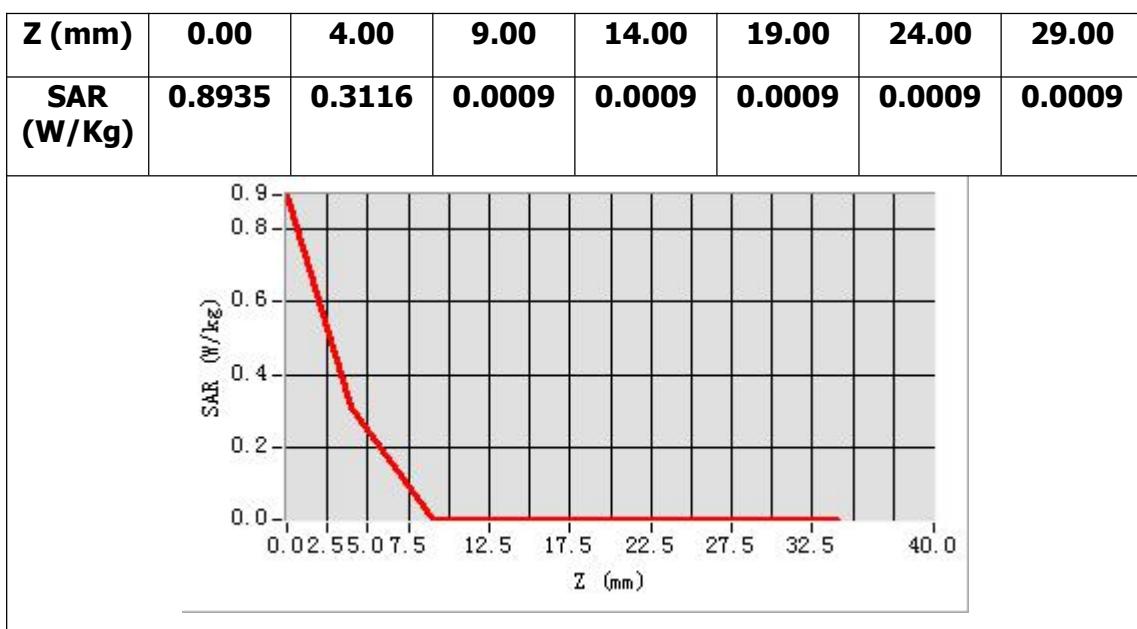
<b>Frequency (MHz)</b>	2535.000000
<b>Relative permittivity (real part)</b>	52.643902
<b>Relative permittivity (imaginary part)</b>	14.644800
<b>Conductivity (S/m)</b>	2.062476
<b>Variation (%)</b>	0.000000



**Maximum location: X=-27.00, Y=-25.00**

**SAR Peak: 0.94 W/kg**

<b>SAR 10g (W/Kg)</b>	0.090819
<b>SAR 1g (W/Kg)</b>	0.328583



# MEASUREMENT 26

Towards-ground-20M-1RB#50-middle

Type: Phone measurement (Complete)

Date of measurement: 29/8/2016

Measurement duration: 8 minutes 11 seconds

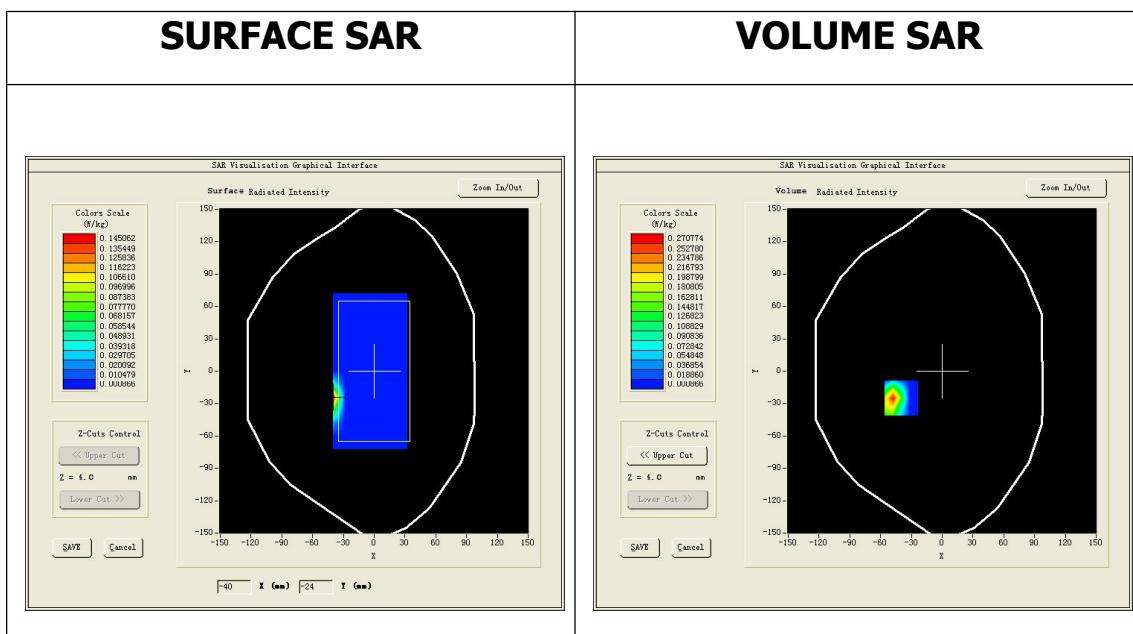
## A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 7</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>Conversion factor</u>	<u>4.07</u>

## B. SAR Measurement Results

Middle Band SAR (Channel 21100):

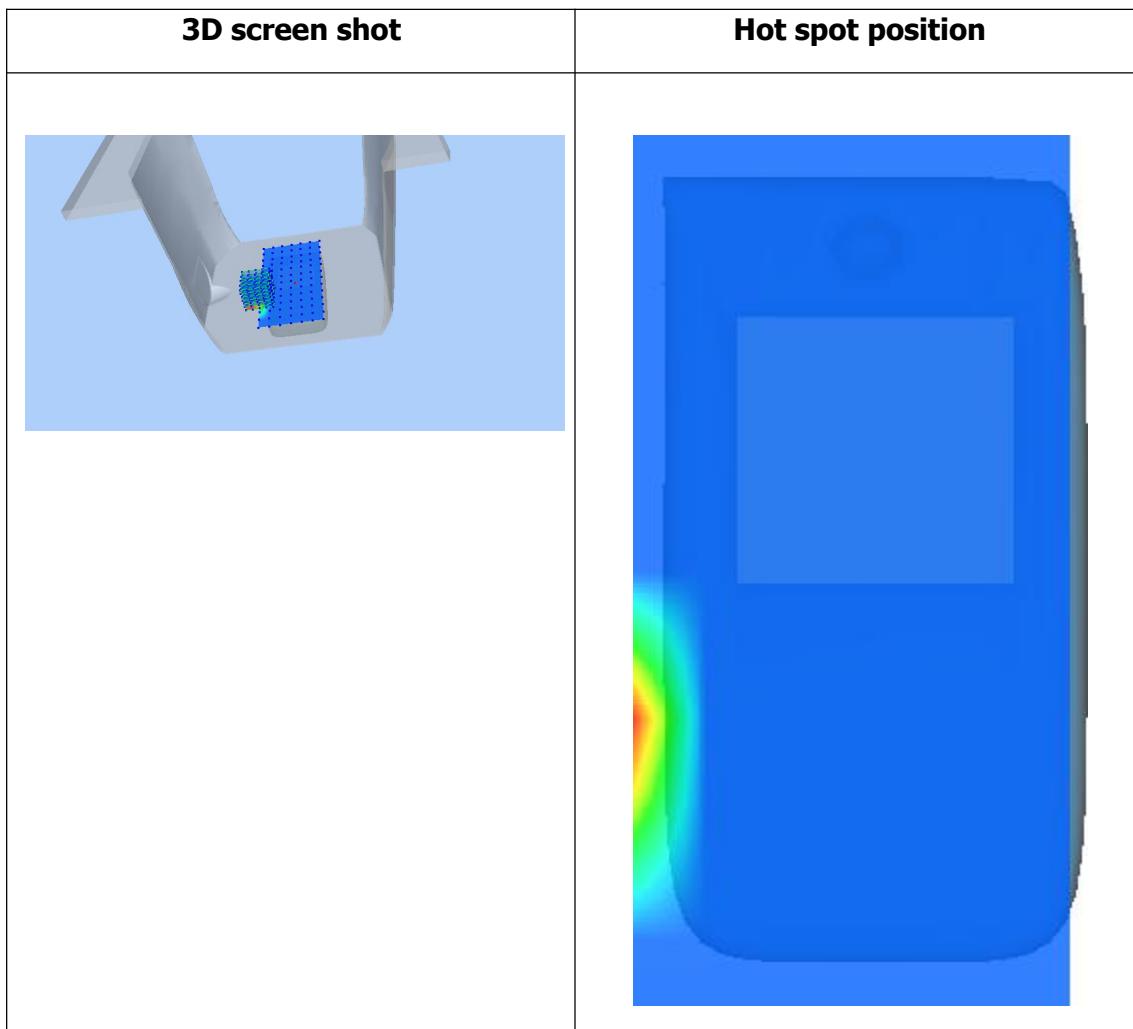
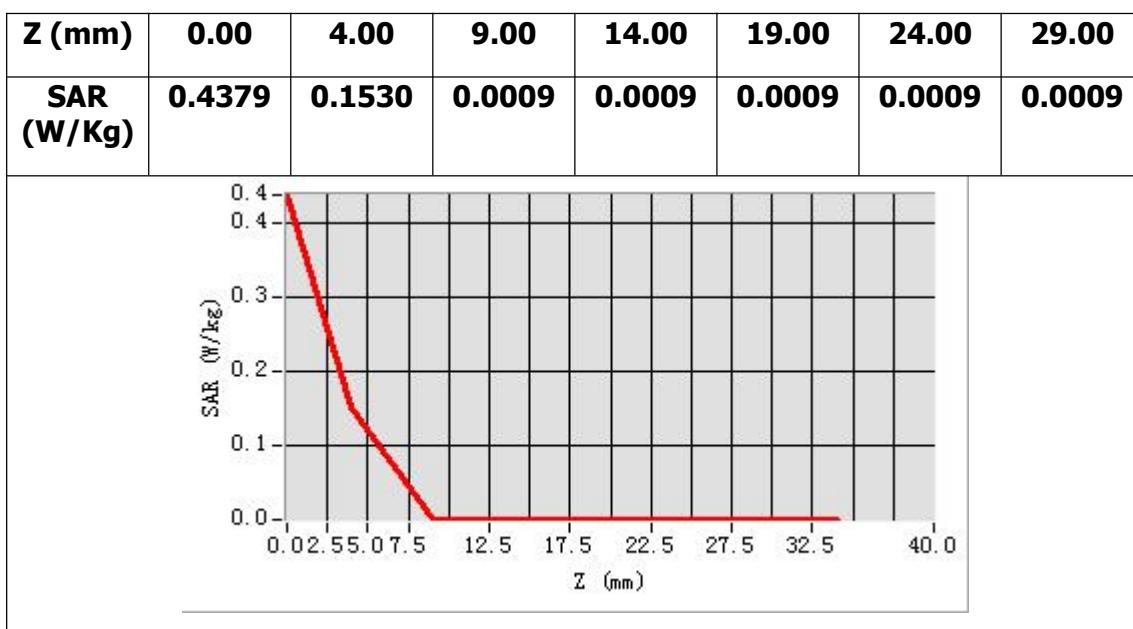
<b>Frequency (MHz)</b>	2535.000000
<b>Relative permittivity (real part)</b>	52.643902
<b>Relative permittivity (imaginary part)</b>	14.644800
<b>Conductivity (S/m)</b>	2.062476
<b>Variation (%)</b>	0.000000



**Maximum location: X=-40.00, Y=-25.00**

**SAR Peak: 0.79 W/kg**

<b>SAR 10g (W/Kg)</b>	0.085025
<b>SAR 1g (W/Kg)</b>	0.283249



# MEASUREMENT 27

Rear-side-middle

Type: Phone measurement (Complete)

Date of measurement: 19/8/2016

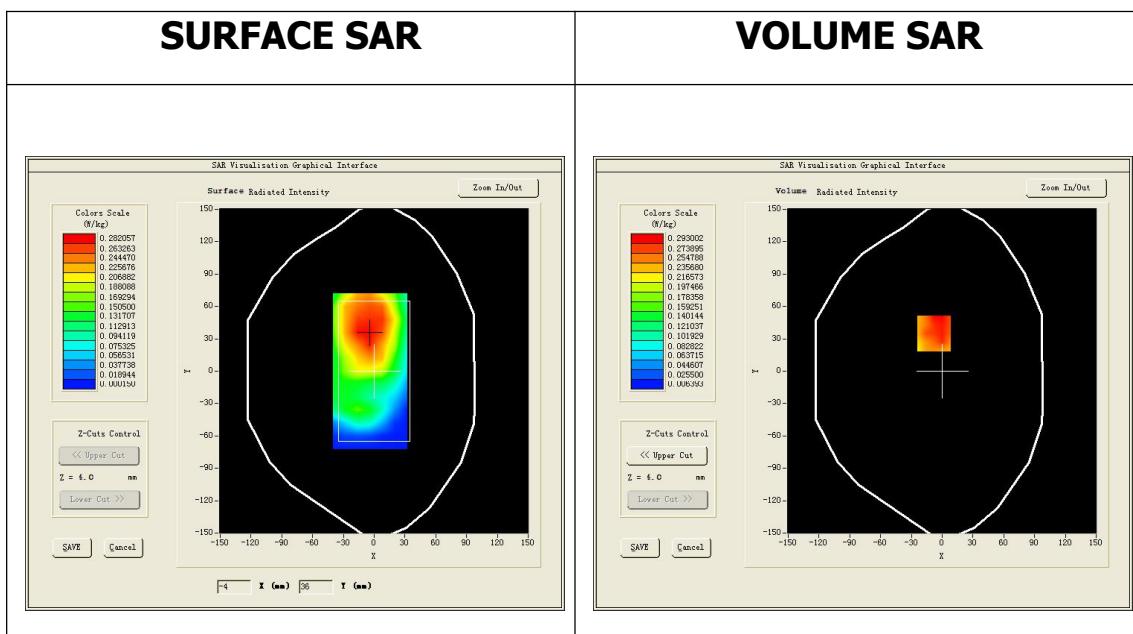
Measurement duration: 9 minutes 31 seconds

## A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>CUSTOM (GPRS850 4Tx)</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>Duty Cycle: 2.00 (Crest factor: 2.0)</u>
<u>Conversion factor</u>	<u>5.07</u>

## B. SAR Measurement Results

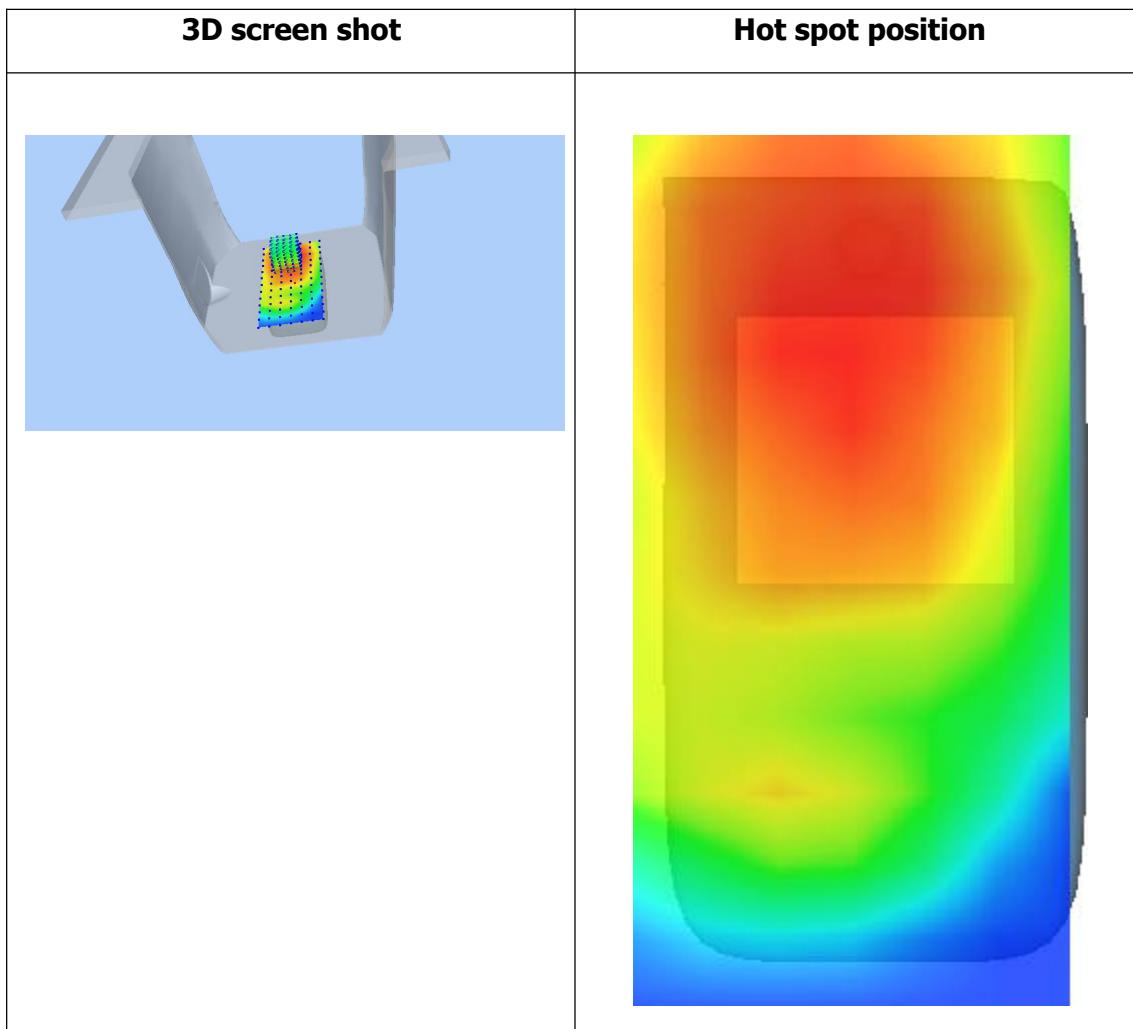
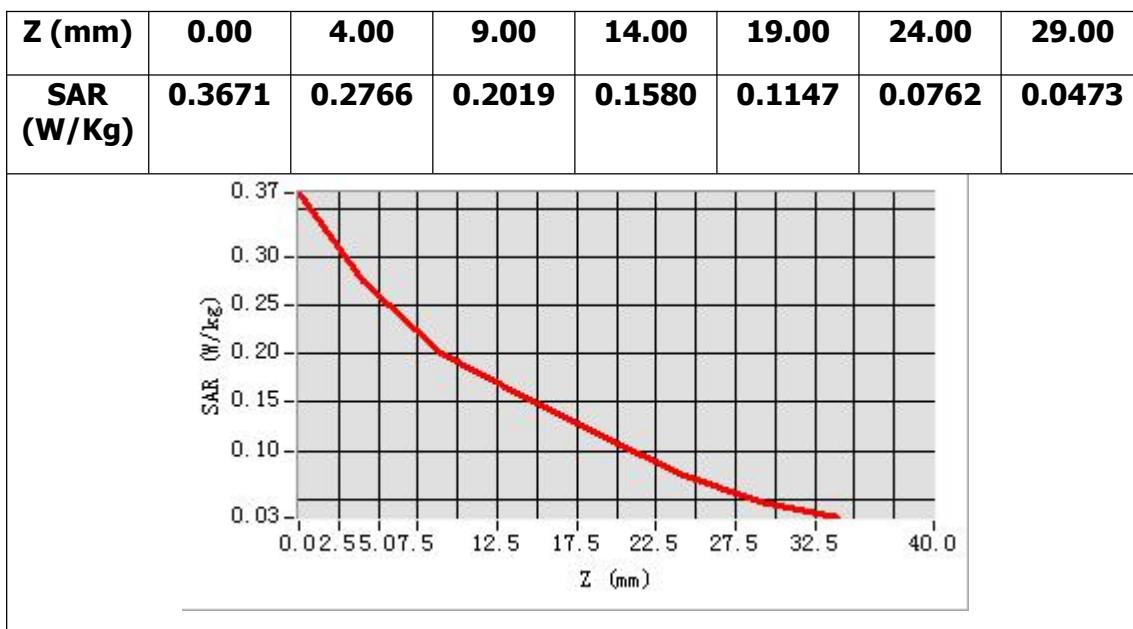
<b>Frequency (MHz)</b>	836.599976
<b>Relative permittivity (real part)</b>	53.395020
<b>Relative permittivity (imaginary part)</b>	21.690760
<b>Conductivity (S/m)</b>	1.008138
<b>Variation (%)</b>	-3.230000



**Maximum location: X=-8.00, Y=35.00**

**SAR Peak: 0.40 W/kg**

<b>SAR 10g (W/Kg)</b>	0.201941
<b>SAR 1g (W/Kg)</b>	0.291580



# MEASUREMENT 28

Towards-ground-middle

Type: Phone measurement (Complete)

Date of measurement: 19/8/2016

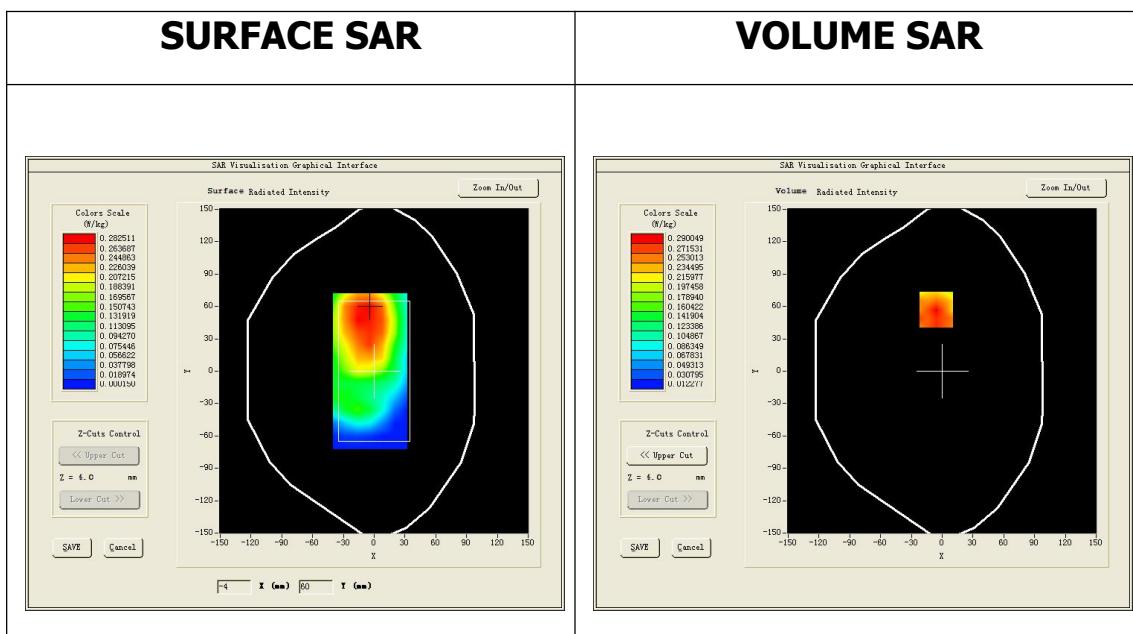
Measurement duration: 9 minutes 30 seconds

## A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>CUSTOM (GPRS850 4Tx)</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>Duty Cycle: 2.00 (Crest factor: 2.0)</u>
<u>Conversion factor</u>	<u>5.07</u>

## B. SAR Measurement Results

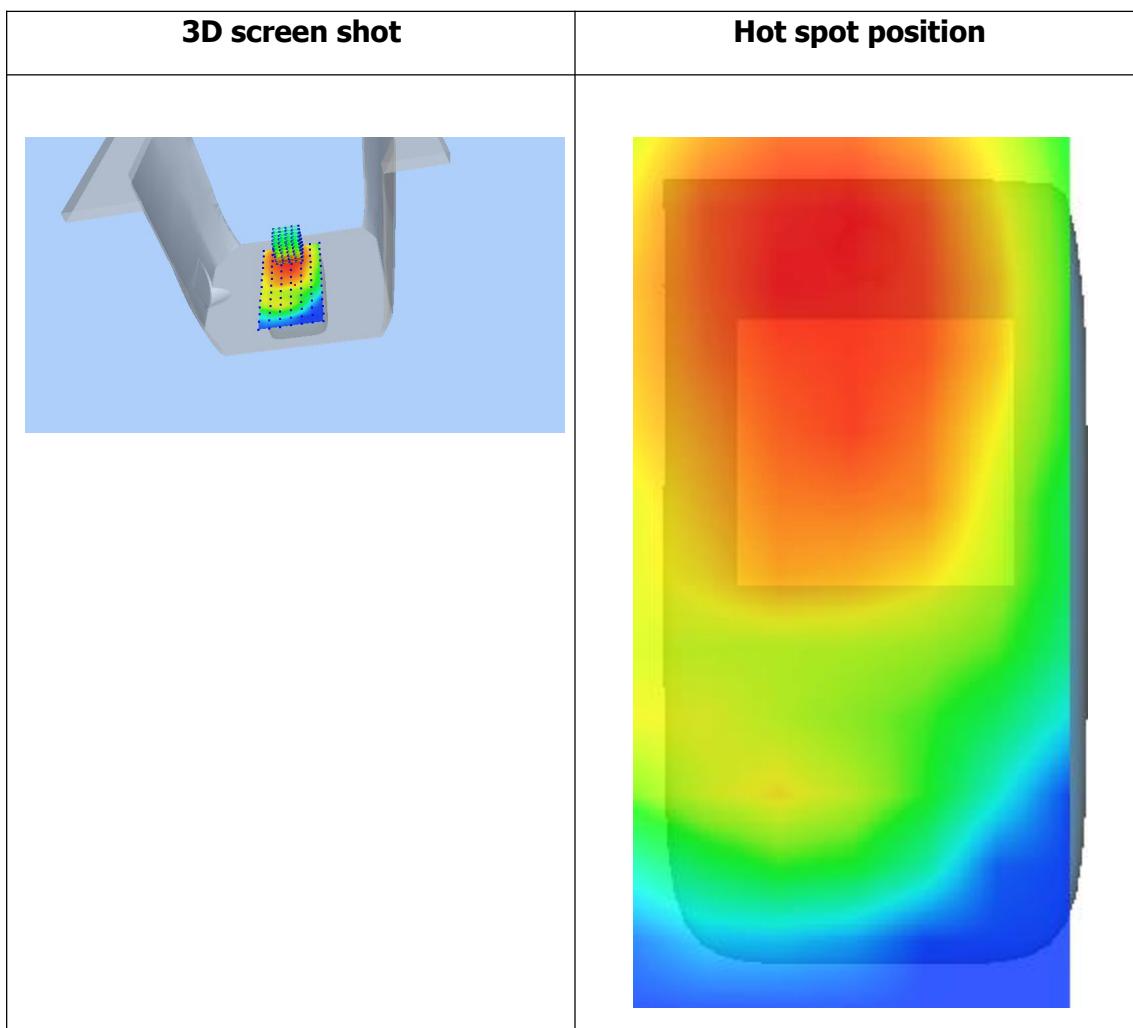
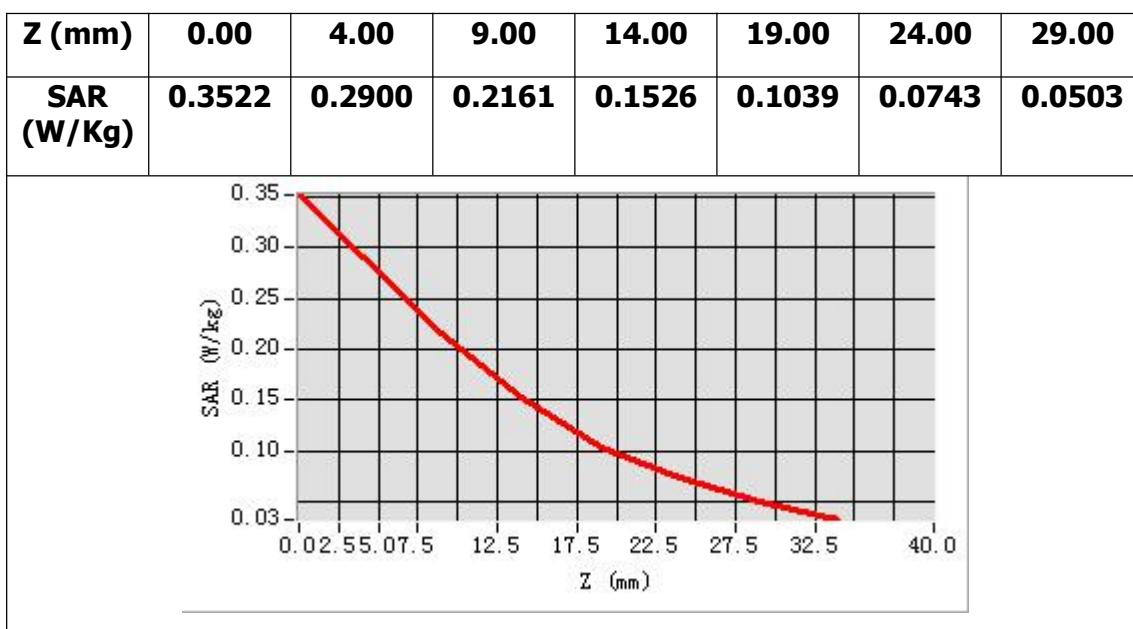
<b>Frequency (MHz)</b>	836.599976
<b>Relative permittivity (real part)</b>	53.395020
<b>Relative permittivity (imaginary part)</b>	21.690760
<b>Conductivity (S/m)</b>	1.008138
<b>Variation (%)</b>	2.570000



**Maximum location: X=-6.00, Y=57.00**

**SAR Peak: 0.38 W/kg**

<b>SAR 10g (W/Kg)</b>	0.197240
<b>SAR 1g (W/Kg)</b>	0.277387



# MEASUREMENT 29

Front-side-middle

Type: Phone measurement (Complete)

Date of measurement: 24/8/2016

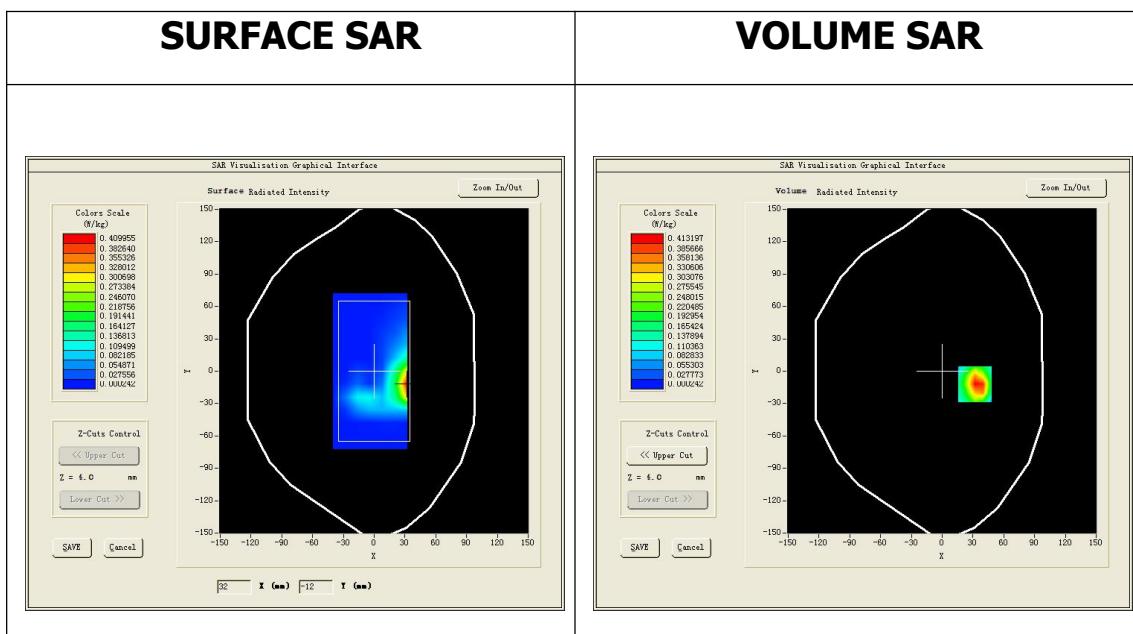
Measurement duration: 9 minutes 48 seconds

## A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>CUSTOM (GPRS1900 4Tx)</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>Duty Cycle: 2.00 (Crest factor: 2.0)</u>
<u>Conversion factor</u>	<u>4.78</u>

## B. SAR Measurement Results

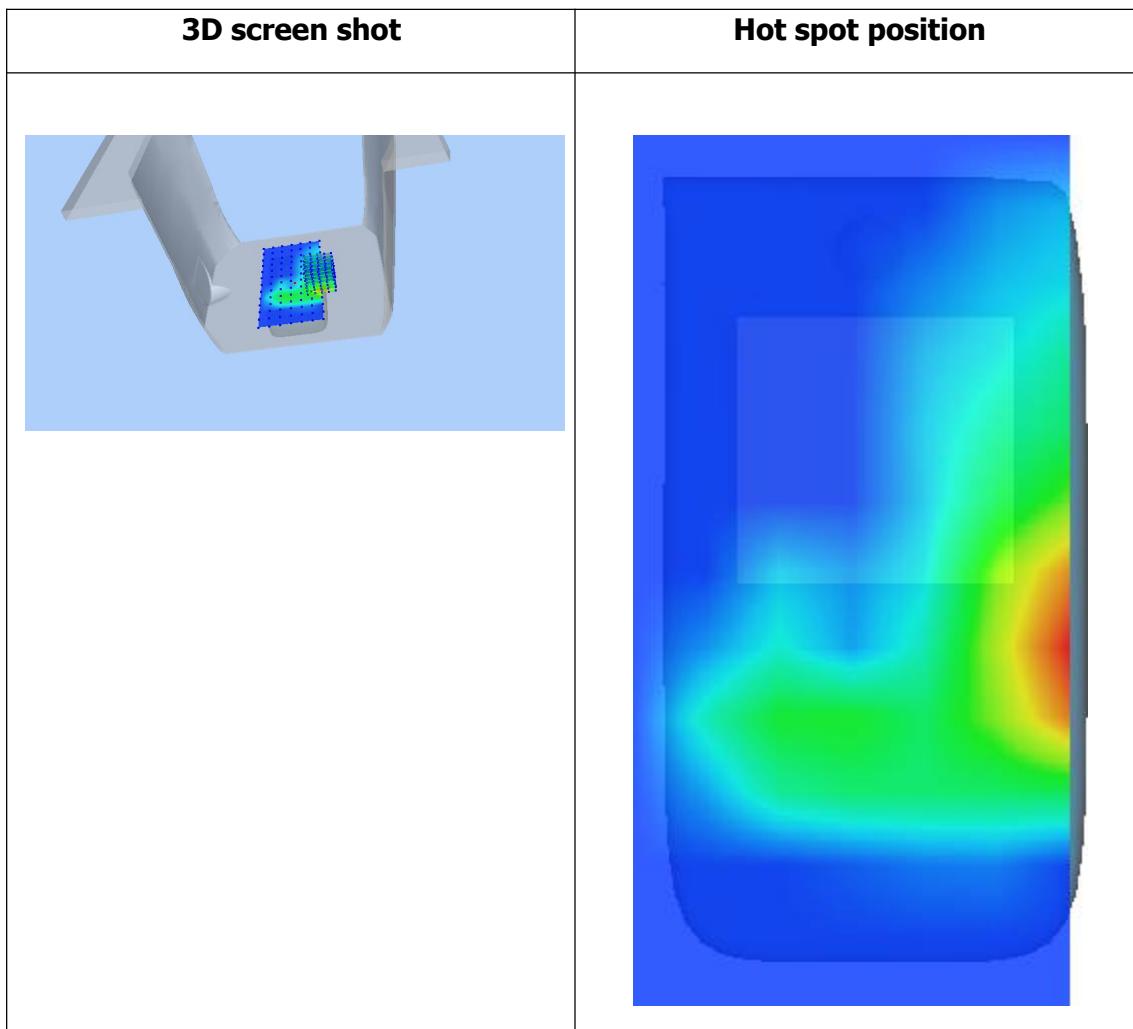
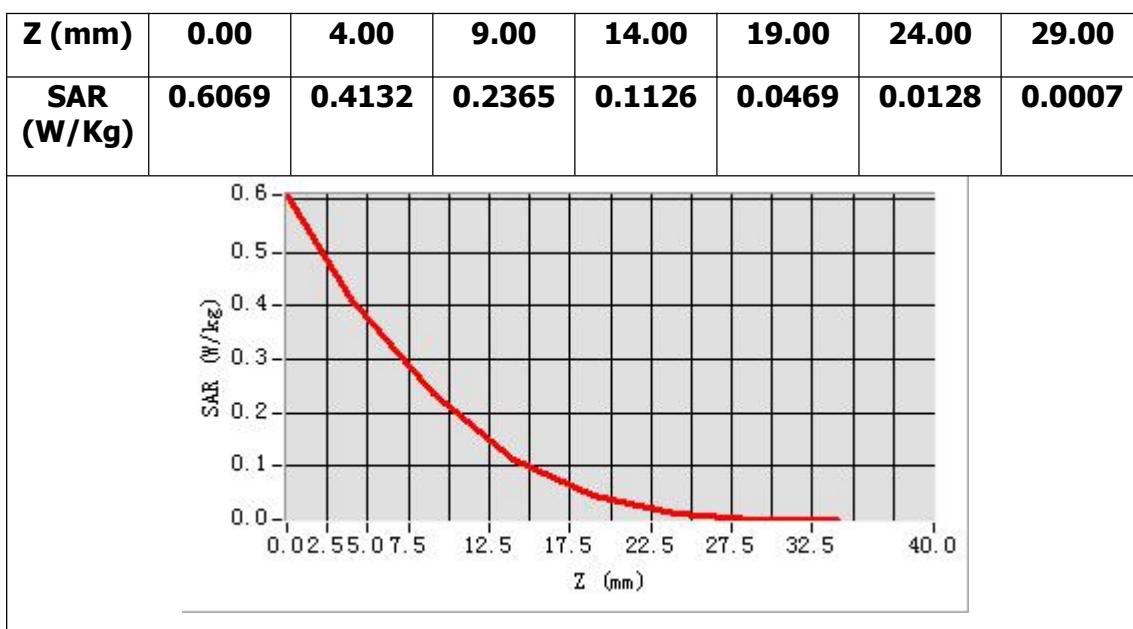
<b>Frequency (MHz)</b>	1880.000000
<b>Relative permittivity (real part)</b>	40.000000
<b>Relative permittivity (imaginary part)</b>	13.408000
<b>Conductivity (S/m)</b>	1.400391
<b>Variation (%)</b>	2.620000



**Maximum location: X=32.00, Y=-12.00**

**SAR Peak: 0.68 W/kg**

<b>SAR 10g (W/Kg)</b>	0.185955
<b>SAR 1g (W/Kg)</b>	0.399976



# MEASUREMENT 30

Towards-ground-middle

Type: Phone measurement (Complete)

Date of measurement: 24/8/2016

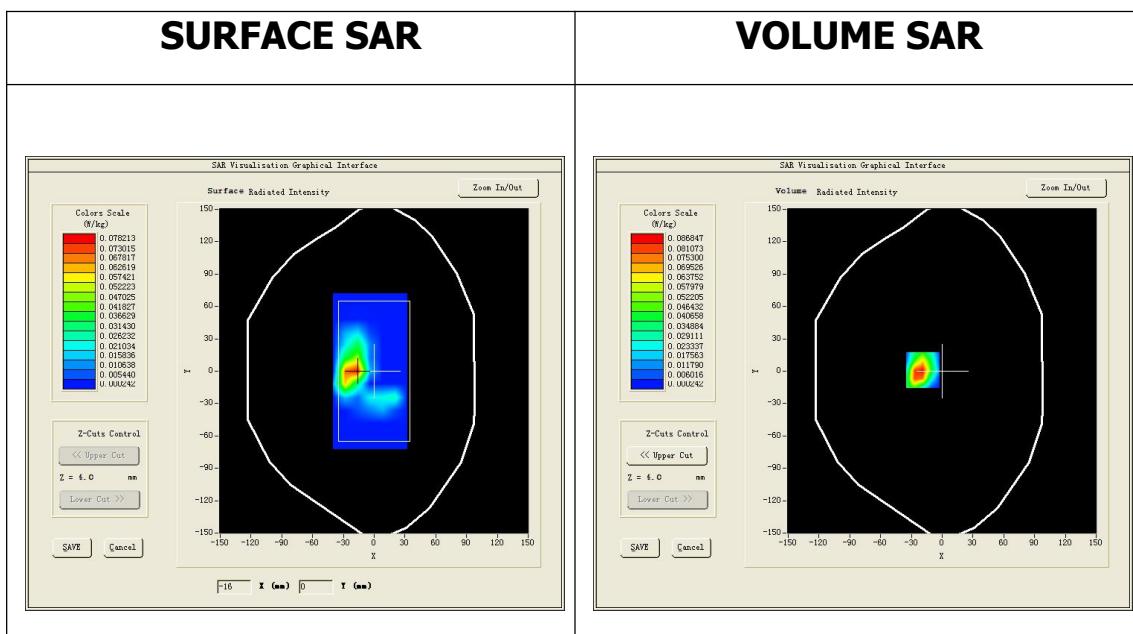
Measurement duration: 8 minutes 3 seconds

## A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>CUSTOM (GPRS1900 4Tx)</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>Duty Cycle: 2.00 (Crest factor: 2.0)</u>
<u>Conversion factor</u>	<u>4.78</u>

## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1880.000000
<b>Relative permittivity (real part)</b>	52.254398
<b>Relative permittivity (imaginary part)</b>	14.597900
<b>Conductivity (S/m)</b>	1.524670
<b>Variation (%)</b>	1.980000



**Maximum location: X=-19.00, Y=1.00**

**SAR Peak: 0.23 W/kg**

<b>SAR 10g (W/Kg)</b>	0.030252
<b>SAR 1g (W/Kg)</b>	0.097066

