	Annex B: Measurement Results
	Tested Model : EMP2920
	Report Number: FCC7050447A

MEASUREMENT 1

Towards-ground-high

Type: Phone measurement (Complete)

Date of measurement: 17/5/2017

Measurement duration: 10 minutes 37 seconds

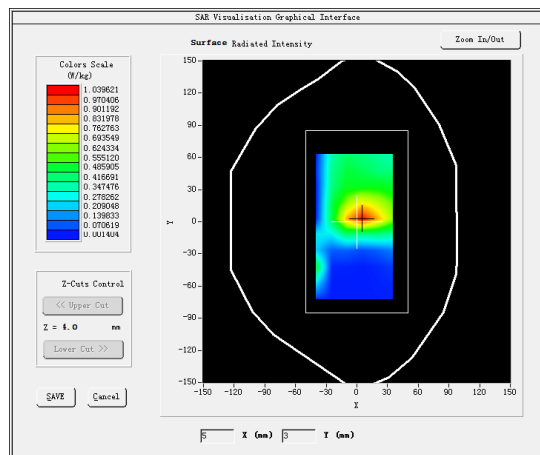
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</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>High</u>
<u>Signal</u>	<u>Duty Cycle: 2.00 (Crest factor: 2.0)</u>
<u>Conversion factor</u>	<u>5.07</u>

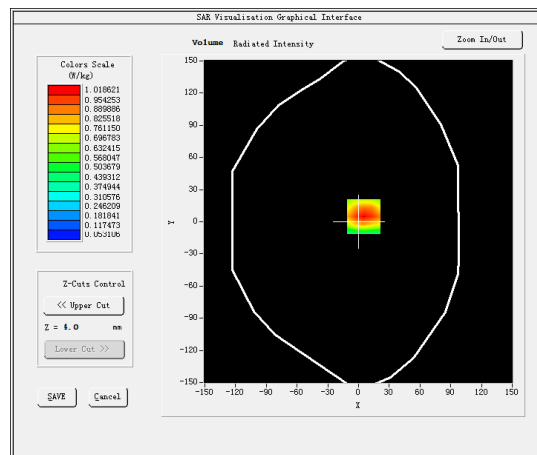
B. SAR Measurement Results

Frequency (MHz)	848.799988
Relative permittivity (real part)	53.693120
Relative permittivity (imaginary part)	21.395110
Conductivity (S/m)	1.009214
Variation (%)	2.240000

SURFACE SAR



VOLUME SAR

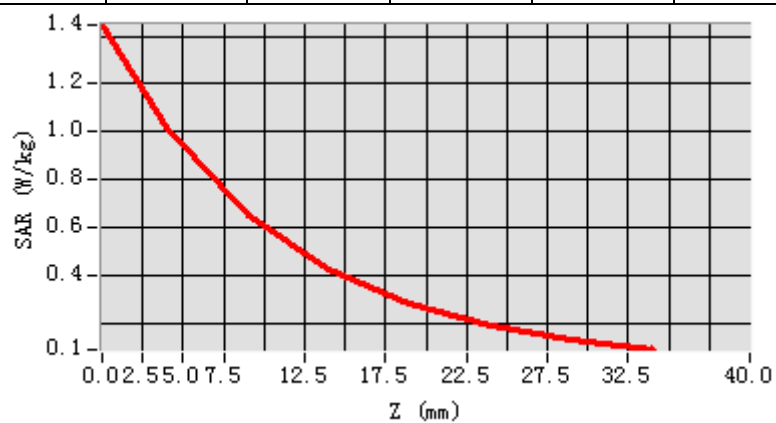


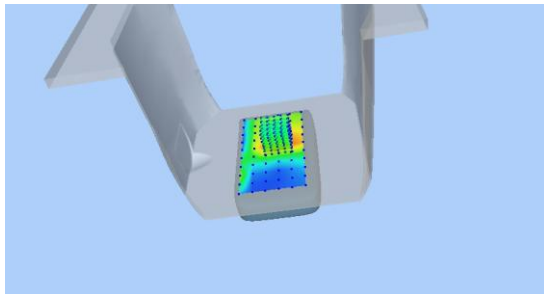
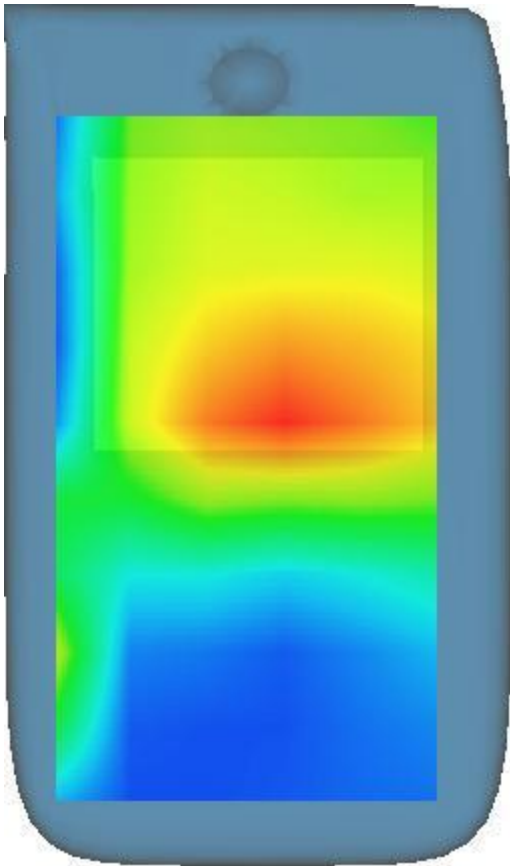
Maximum location: X=5.00, Y=5.00

SAR Peak: 1.44 W/kg

SAR 10g (W/Kg)	0.511279
SAR 1g (W/Kg)	0.738654

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.4463	1.0186	0.6511	0.4255	0.2782	0.1886	0.1307



3D screen shot	Hot spot position
	

MEASUREMENT 2

Bottom-side-high

Type: Phone measurement (Complete)

Date of measurement: 17/5/2017

Measurement duration: 10 minutes 36 seconds

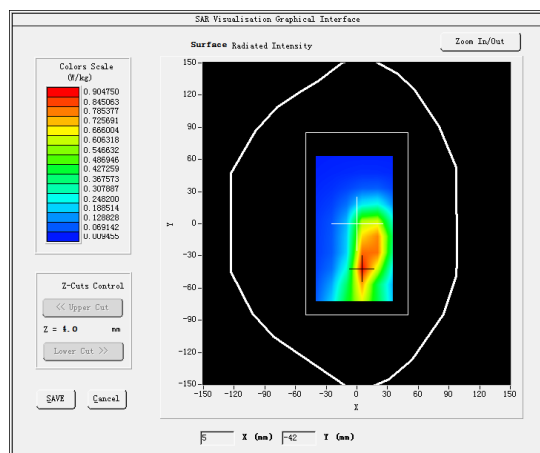
A. Experimental conditions.

<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>High</u>
<u>Signal</u>	<u>Duty Cycle: 2.00 (Crest factor: 2.0)</u>
<u>Conversion factor</u>	<u>5.07</u>

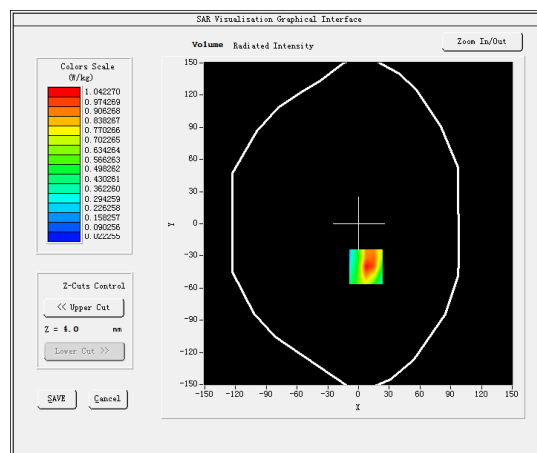
B. SAR Measurement Results

Frequency (MHz)	848.799988
Relative permittivity (real part)	53.693120
Relative permittivity (imaginary part)	21.395110
Conductivity (S/m)	1.009214
Variation (%)	3.850000

SURFACE SAR



VOLUME SAR

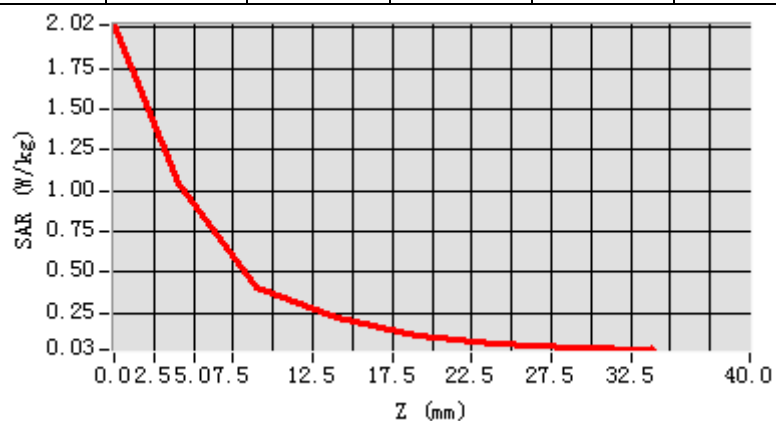


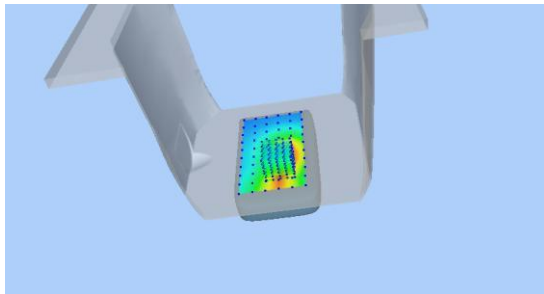
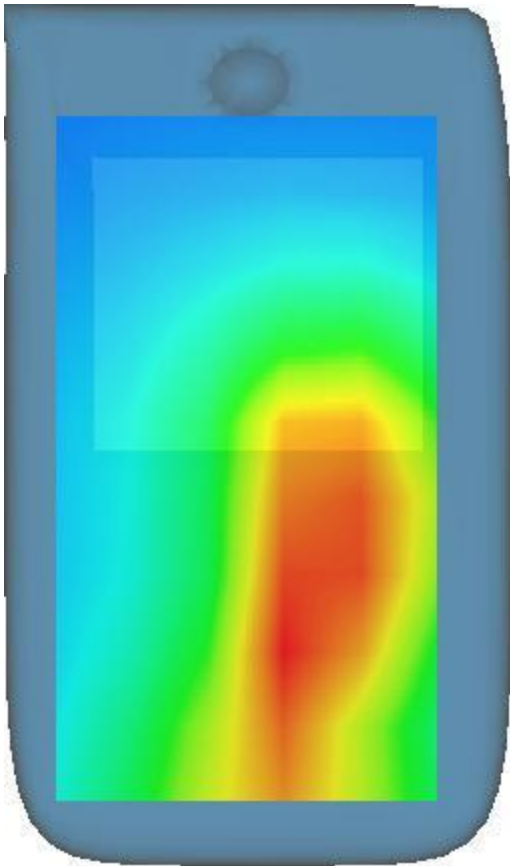
Maximum location: X=7.00, Y=-40.00

SAR Peak: 2.08 W/kg

SAR 10g (W/Kg)	0.485094
SAR 1g (W/Kg)	0.746731

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.0167	1.0423	0.4065	0.2179	0.1134	0.0620	0.0389



3D screen shot	Hot spot position
	

MEASUREMENT 3

Towards-ground-low

Type: Phone measurement (Complete)

Date of measurement: 24/5/2017

Measurement duration: 8 minutes 51 seconds

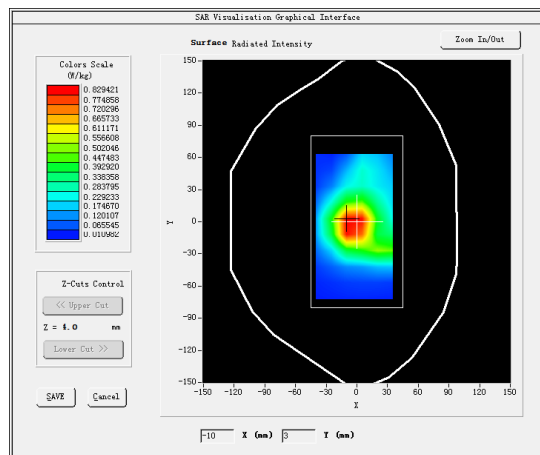
A. Experimental conditions.

<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>Low</u>
<u>Signal</u>	<u>Duty Cycle: 2.00 (Crest factor: 2.0)</u>
<u>Conversion factor</u>	<u>4.78</u>

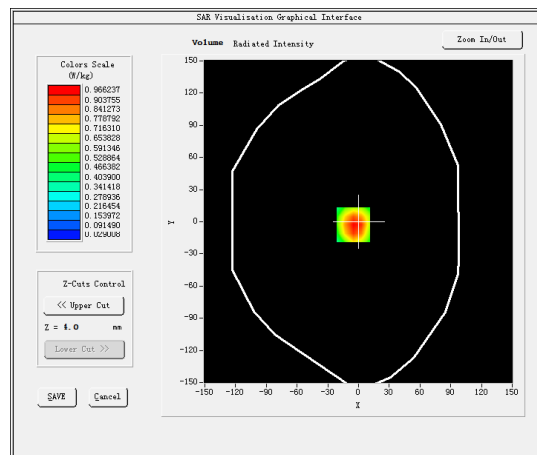
B. SAR Measurement Results

Frequency (MHz)	1850.199951
Relative permittivity (real part)	53.232899
Relative permittivity (imaginary part)	14.493960
Conductivity (S/m)	1.489818
Variation (%)	-4.190000

SURFACE SAR



VOLUME SAR

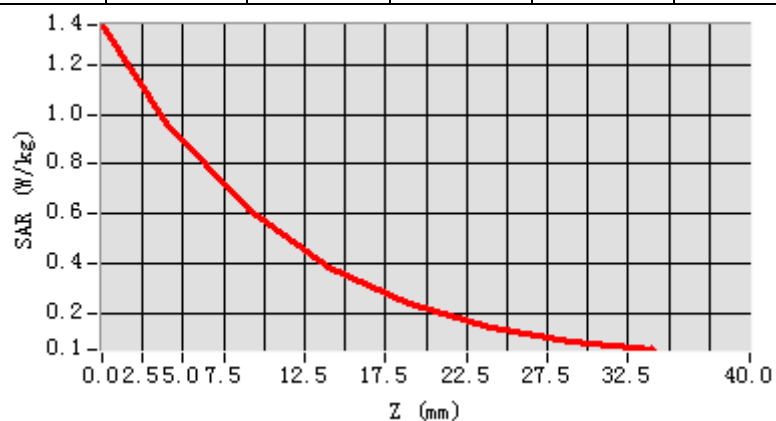


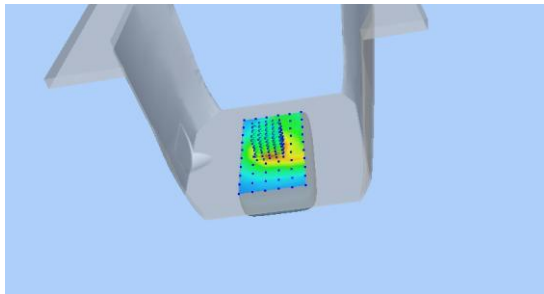
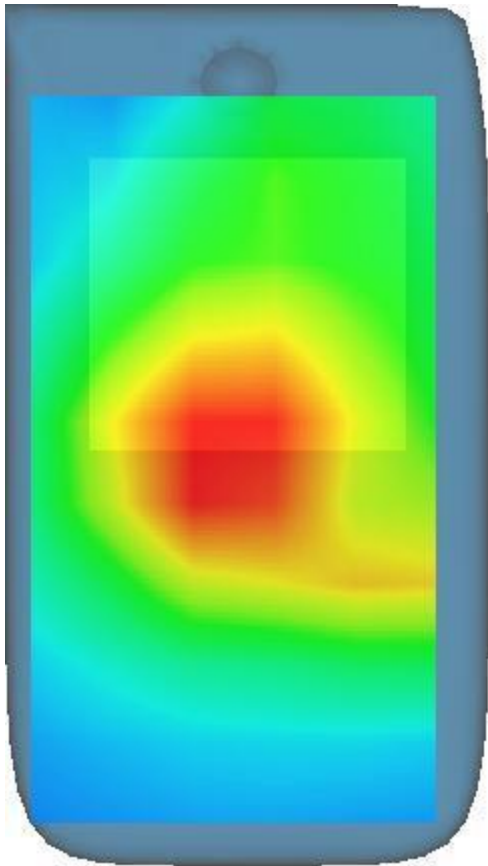
Maximum location: X=-5.00, Y=-3.00

SAR Peak: 1.46 W/kg

SAR 10g (W/Kg)	0.539104
SAR 1g (W/Kg)	0.728711

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.3606	0.9662	0.6180	0.3837	0.2384	0.1446	0.0864



3D screen shot	Hot spot position
	

MEASUREMENT 4

Rear-side-low

Type: Phone measurement (Complete)

Date of measurement: 24/5/2017

Measurement duration: 11 minutes 15 seconds

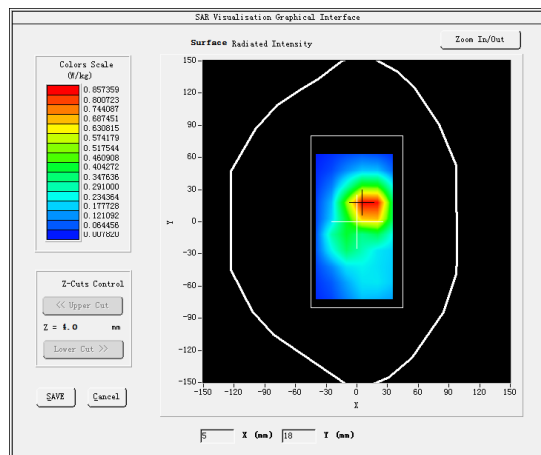
A. Experimental conditions.

<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>CUSTOM (GPRS1900 4Tx)</u>
<u>Channels</u>	<u>Low</u>
<u>Signal</u>	<u>Duty Cycle: 2.00 (Crest factor: 2.0)</u>
<u>Conversion factor</u>	<u>4.78</u>

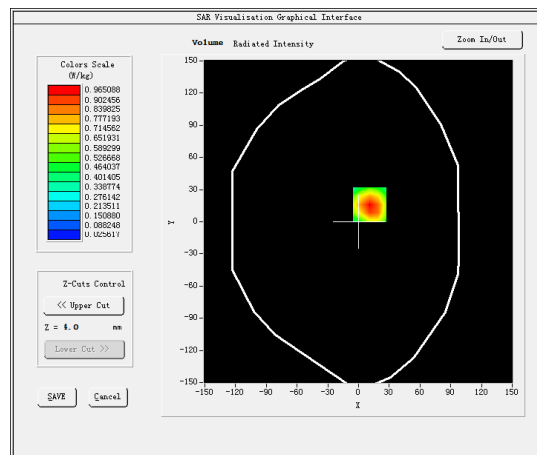
B. SAR Measurement Results

Frequency (MHz)	1850.199951
Relative permittivity (real part)	53.232899
Relative permittivity (imaginary part)	14.493960
Conductivity (S/m)	1.489818
Variation (%)	-1.550000

SURFACE SAR



VOLUME SAR

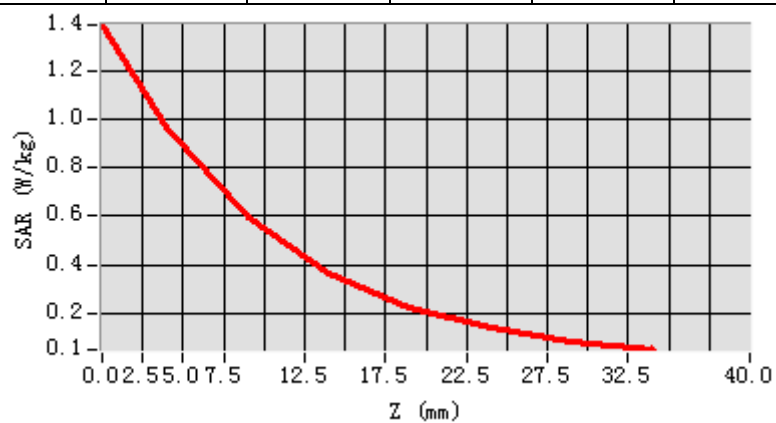


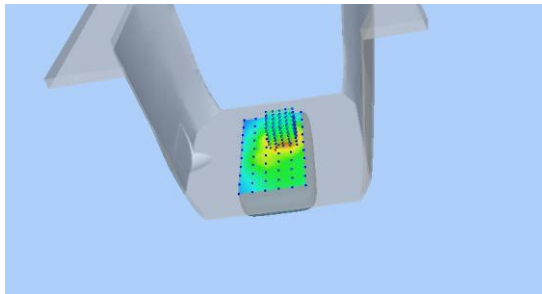
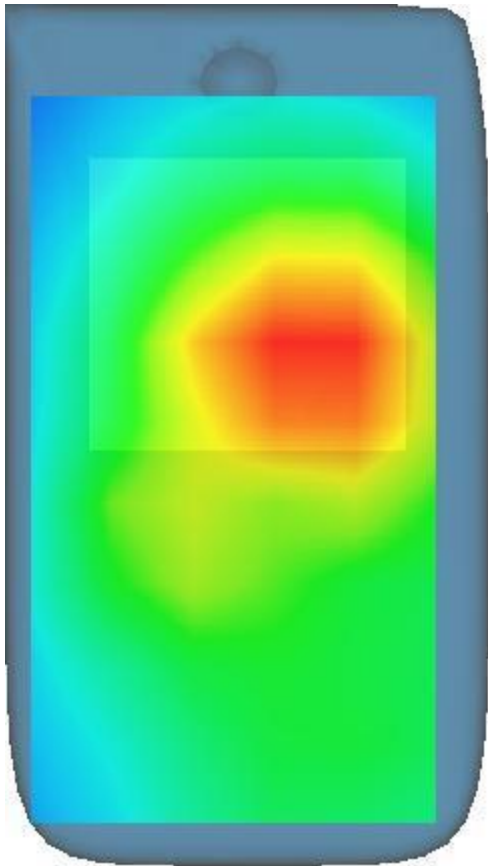
Maximum location: X=11.00, Y=16.00

SAR Peak: 1.42 W/kg

SAR 10g (W/Kg)	0.425590
SAR 1g (W/Kg)	0.758312

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.3886	0.9651	0.5988	0.3609	0.2206	0.1411	0.0861



3D screen shot	Hot spot position
	

MEASUREMENT 5

Towards-ground-low

Type: Phone measurement (Complete)

Date of measurement: 24/5/2017

Measurement duration: 10 minutes 38 seconds

A. Experimental conditions.

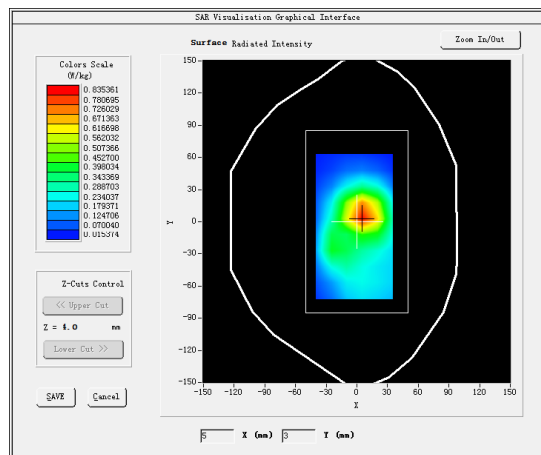
<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band2 WCDMA1900</u>
<u>Channels</u>	<u>Low</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>
<u>Conversion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

B. SAR Measurement Results

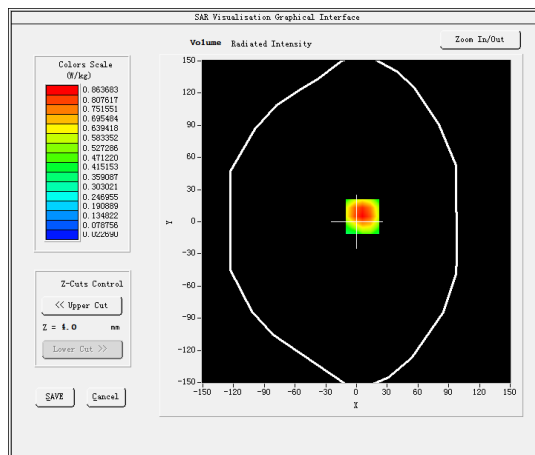
Middle Band SAR (Channel 9262):

Frequency (MHz)	1852.400000
Relative permittivity (real part)	53.694200
Relative permittivity (imaginary part)	14.636405
Conductivity (S/m)	1.533138
Variation (%)	2.890000

SURFACE SAR



VOLUME SAR

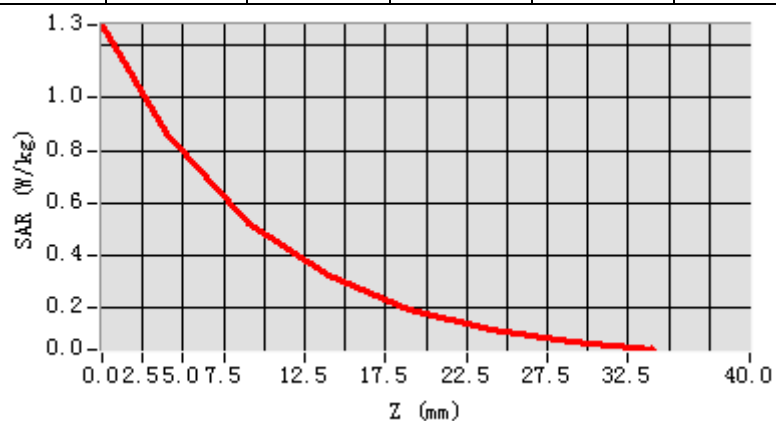


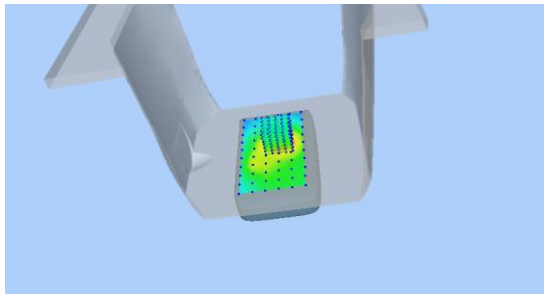
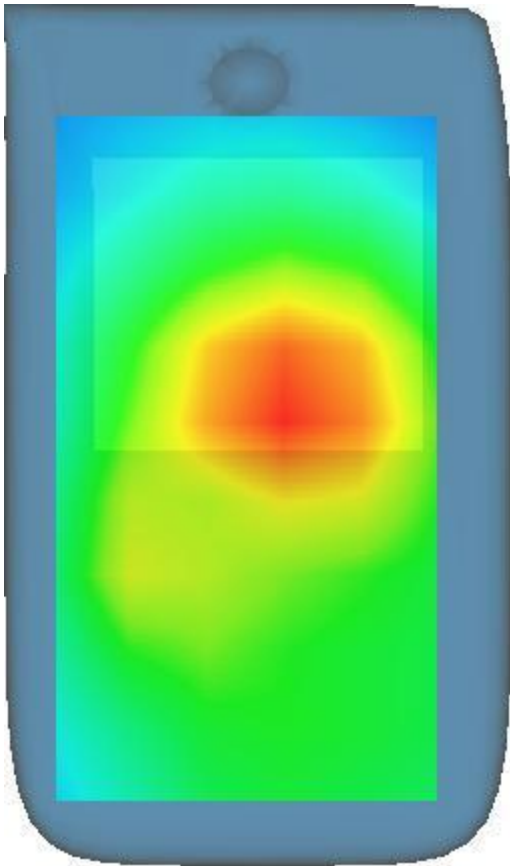
Maximum location: X=6.00, Y=5.00

SAR Peak: 1.29 W/kg

SAR 10g (W/Kg)	0.480206
SAR 1g (W/Kg)	0.735200

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.2756	0.8637	0.5216	0.3218	0.1935	0.1179	0.0709



3D screen shot	Hot spot position
	

MEASUREMENT 6

Rear-side-low

Type: Phone measurement (Complete)

Date of measurement: 24/5/2017

Measurement duration: 10 minutes 10 seconds

A. Experimental conditions.

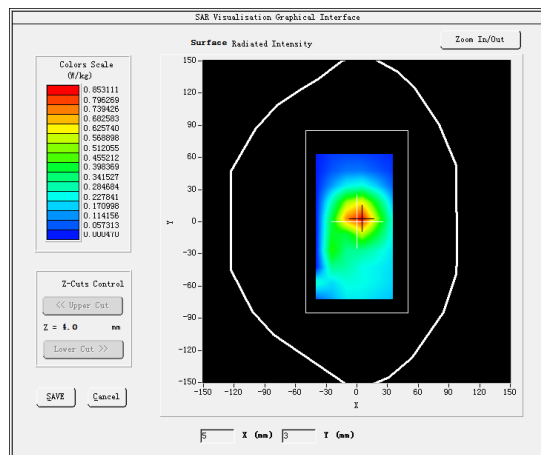
<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band2 WCDMA1900</u>
<u>Channels</u>	<u>Low</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>
<u>Conversion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

B. SAR Measurement Results

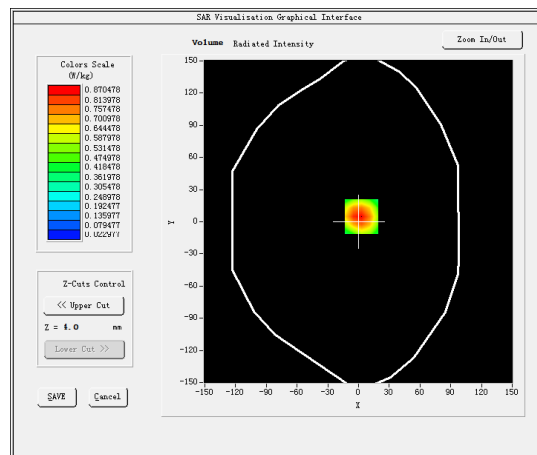
Middle Band SAR (Channel 9262):

Frequency (MHz)	1852.400000
Relative permittivity (real part)	53.694200
Relative permittivity (imaginary part)	14.636405
Conductivity (S/m)	1.533138
Variation (%)	2.190000

SURFACE SAR



VOLUME SAR

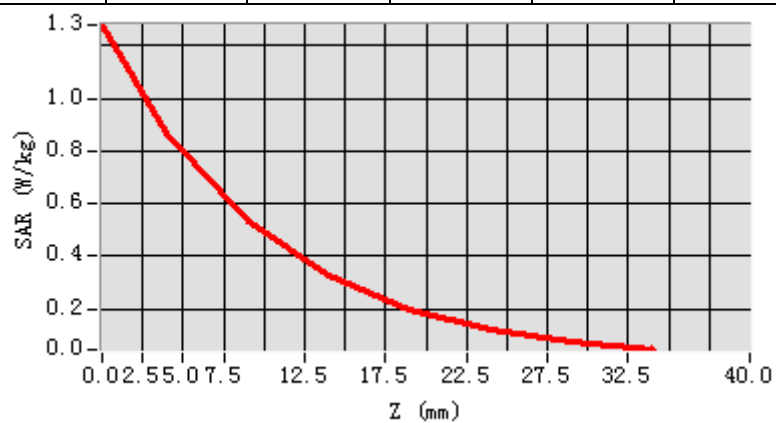


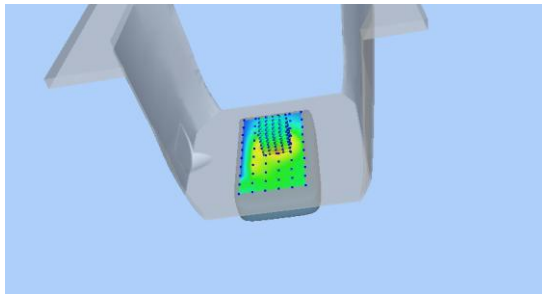
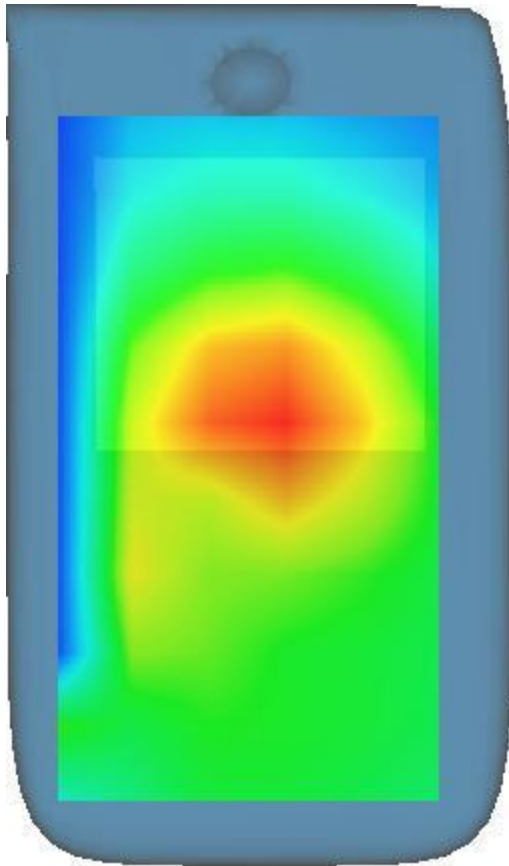
Maximum location: X=3.00, Y=5.00

SAR Peak: 1.29 W/kg

SAR 10g (W/Kg)	0.465436
SAR 1g (W/Kg)	0.787887

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.2778	0.8705	0.5299	0.3280	0.1989	0.1214	0.0739



3D screen shot	Hot spot position
	

MEASUREMENT 7

Towards-ground-high

Type: Phone measurement (Complete)

Date of measurement: 17/5/2017

Measurement duration: 10 minutes 15 seconds

A. Experimental conditions.

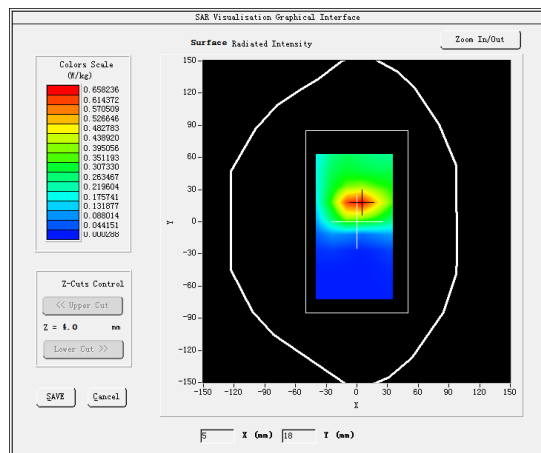
<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band5 WCDMA850</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>
<u>Conversion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

B. SAR Measurement Results

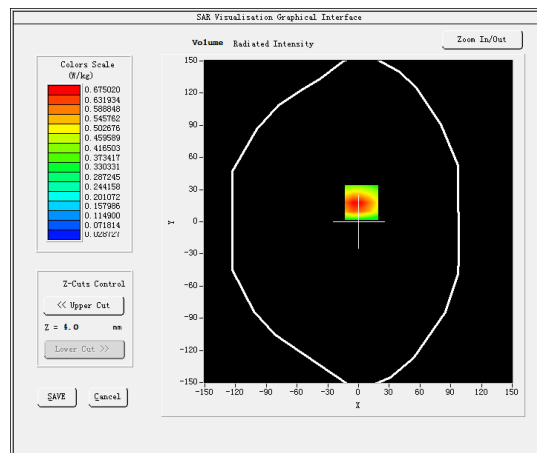
Higher Band SAR (Channel 4233):

Frequency (MHz)	846.599976
Relative permittivity (real part)	53.880612
Relative permittivity (imaginary part)	21.233297
Conductivity (S/m)	1.000360
Variation (%)	-0.680000

SURFACE SAR



VOLUME SAR

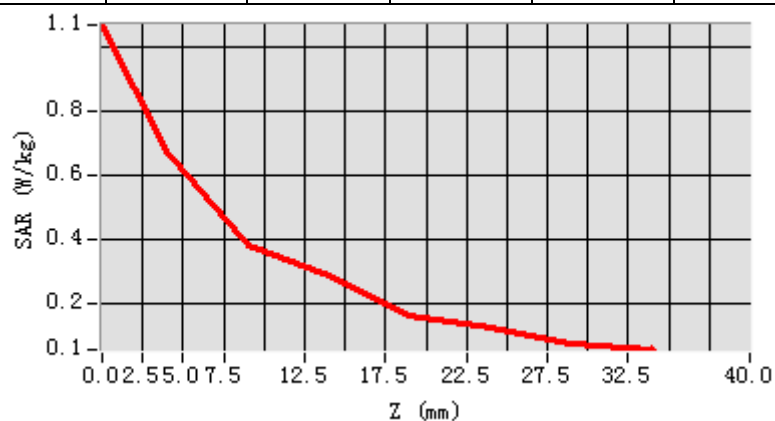


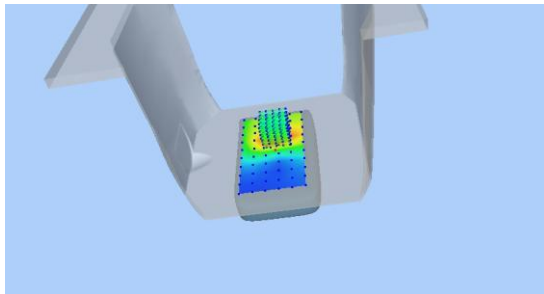
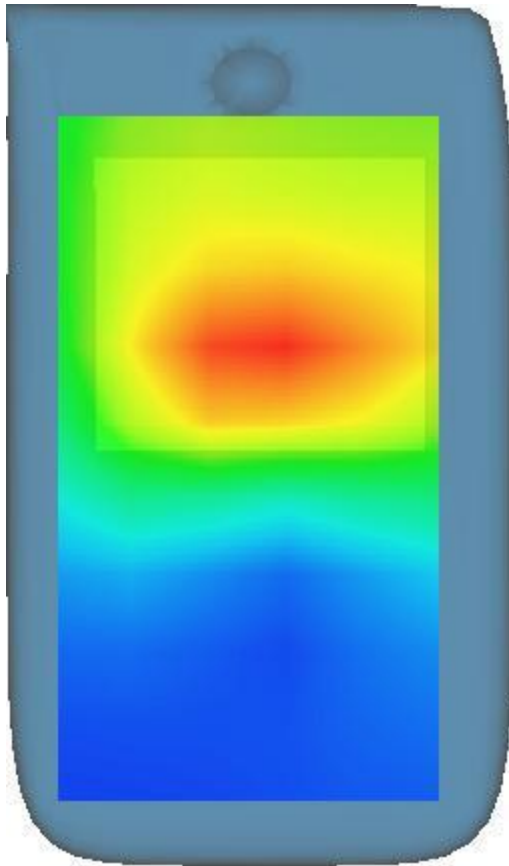
Maximum location: X=3.00, Y=18.00

SAR Peak: 1.01 W/kg

SAR 10g (W/Kg)	0.399175
SAR 1g (W/Kg)	0.673071

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.0658	0.6750	0.3826	0.2853	0.1638	0.1236	0.0733



3D screen shot	Hot spot position
	

MEASUREMENT 8

Rear-side-high

Type: Phone measurement (Complete)

Date of measurement: 17/5/2017

Measurement duration: 10 minutes 37 seconds

A. Experimental conditions.

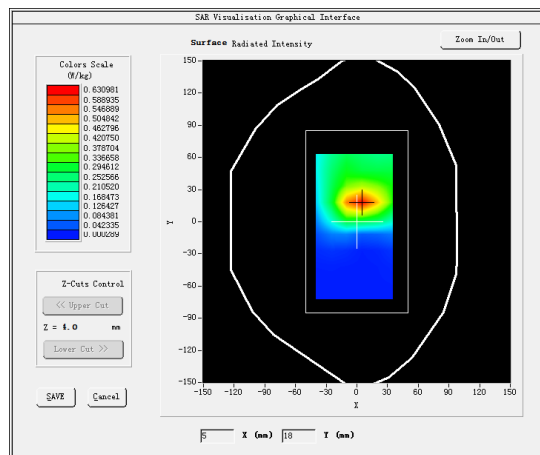
<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band5 WCDMA850</u>
<u>Channels</u>	<u>High</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>
<u>Conversion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

B. SAR Measurement Results

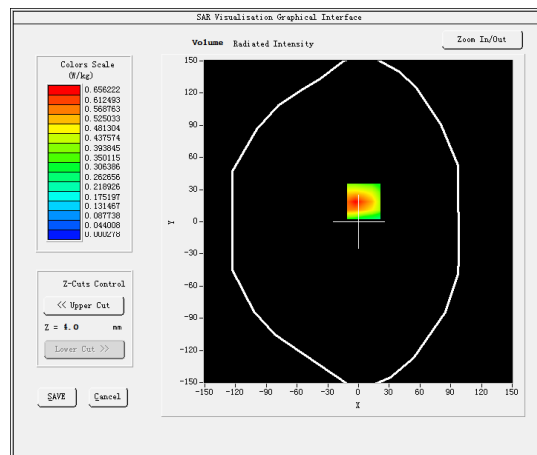
Higher Band SAR (Channel 4233):

Frequency (MHz)	846.599976
Relative permittivity (real part)	53.880612
Relative permittivity (imaginary part)	21.233297
Conductivity (S/m)	1.000360
Variation (%)	-1.600000

SURFACE SAR



VOLUME SAR

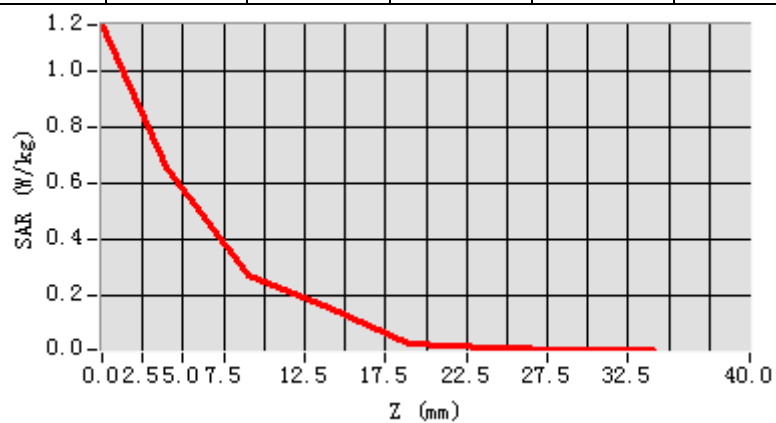


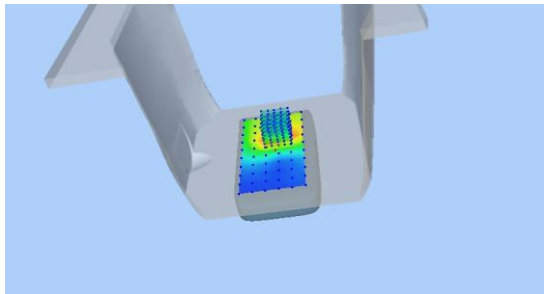
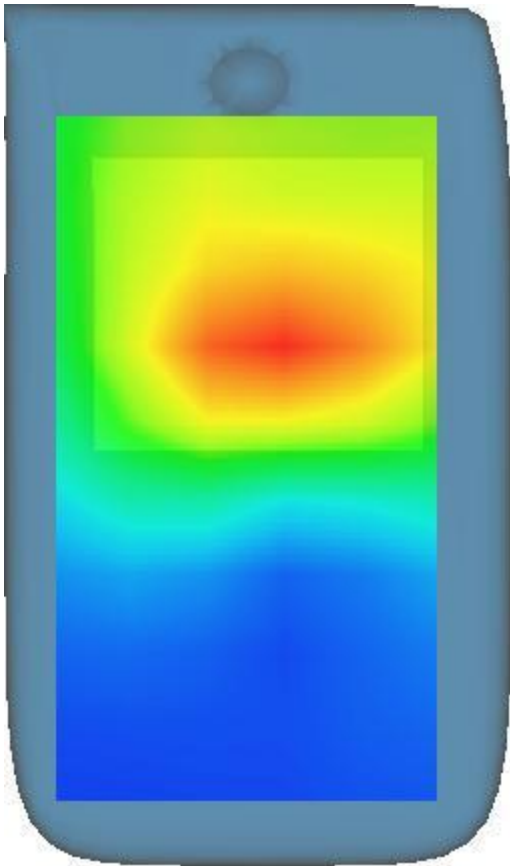
Maximum location: X=5.00, Y=19.00

SAR Peak: 1.04 W/kg

SAR 10g (W/Kg)	0.415360
SAR 1g (W/Kg)	0.772794

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.1640	0.6562	0.2664	0.1537	0.0257	0.0087	0.0074



3D screen shot	Hot spot position
	

MEASUREMENT 9

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

Type: Phone measurement (Complete)

Date of measurement: 22/5/2017

Measurement duration: 12 minutes 4 seconds

A. Experimental conditions.

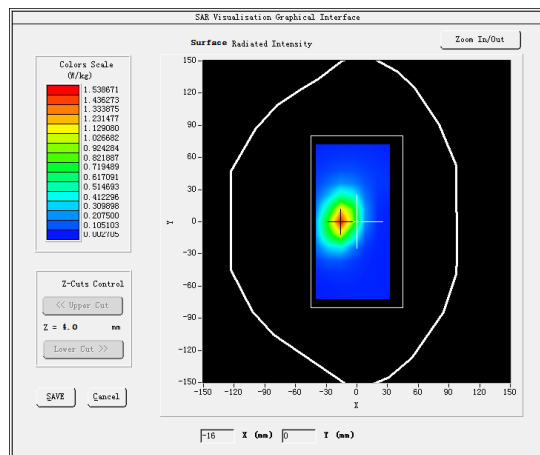
<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 7</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>Conversion factor</u>	<u>4.07</u>

B. SAR Measurement Results

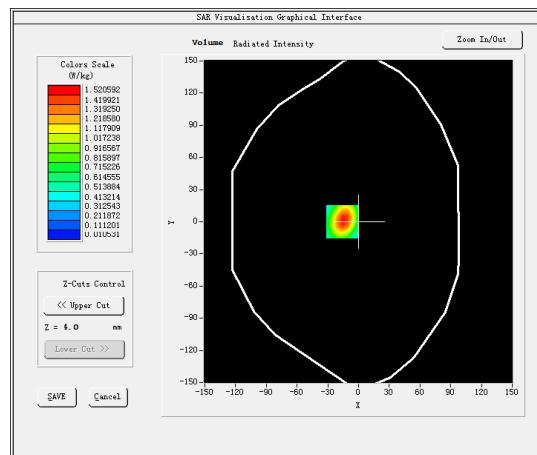
Middle Band SAR (Channel 21100):

Frequency (MHz)	2535.000000
Relative permittivity (real part)	51.920998
Relative permittivity (imaginary part)	14.614706
Conductivity (S/m)	2.057741
Variation (%)	-1.160000

SURFACE SAR



VOLUME SAR

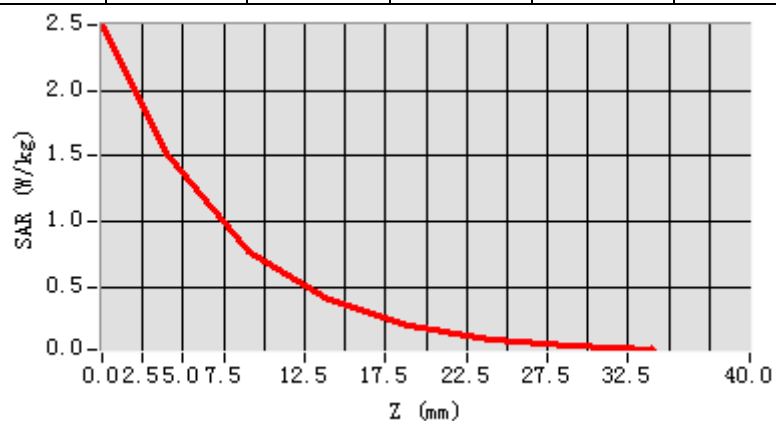


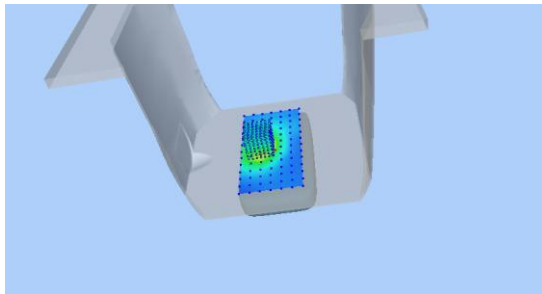
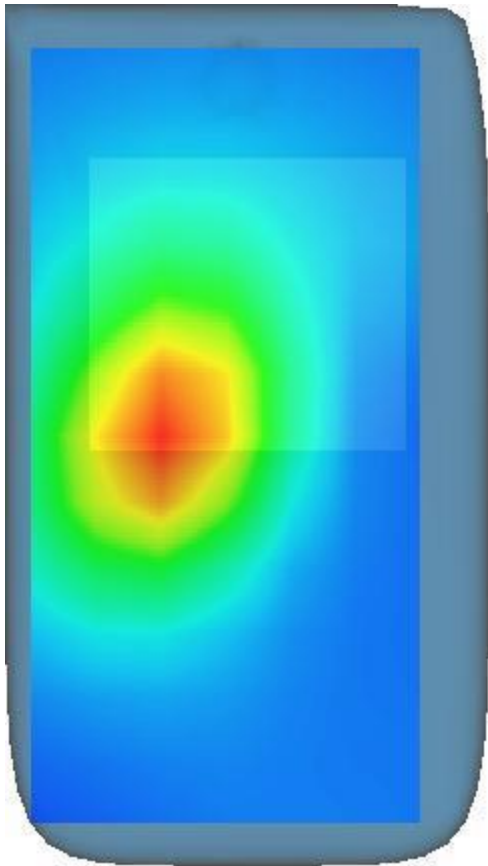
Maximum location: X=-16.00, Y=0.00

SAR Peak: 2.50 W/kg

SAR 10g (W/Kg)	0.510011
SAR 1g (W/Kg)	0.722409

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.4952	1.5206	0.7795	0.4010	0.2051	0.1042	0.0534



3D screen shot	Hot spot position
	

MEASUREMENT 10

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

Type: Phone measurement (Complete)

Date of measurement: 22/5/2017

Measurement duration: 11 minutes 30 seconds

A. Experimental conditions.

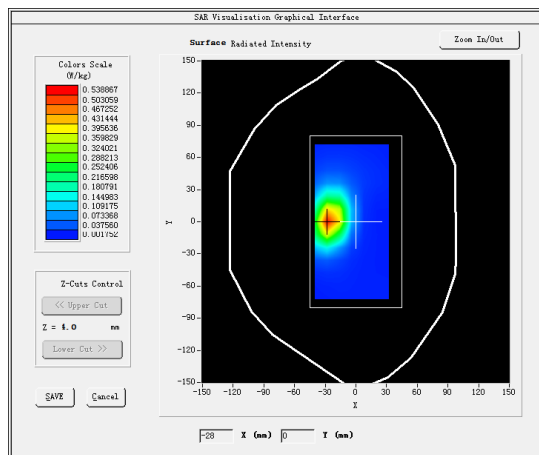
<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 7</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>
<u>Conversion factor</u>	<u>4.07</u>

B. SAR Measurement Results

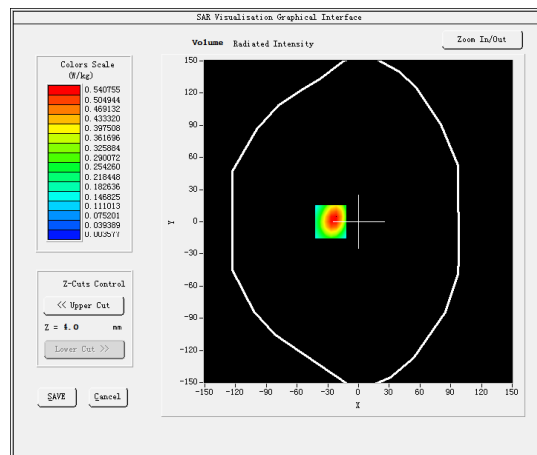
Middle Band SAR (Channel 21100):

Frequency (MHz)	2535.000000
Relative permittivity (real part)	51.920998
Relative permittivity (imaginary part)	14.614706
Conductivity (S/m)	2.057741
Variation (%)	-0.210000

SURFACE SAR



VOLUME SAR

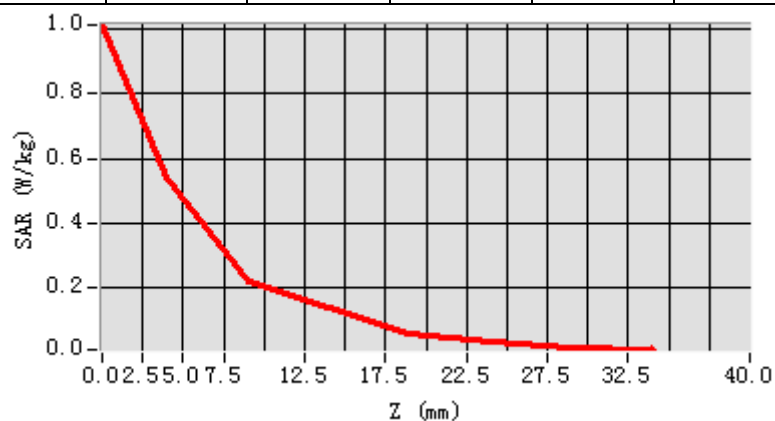


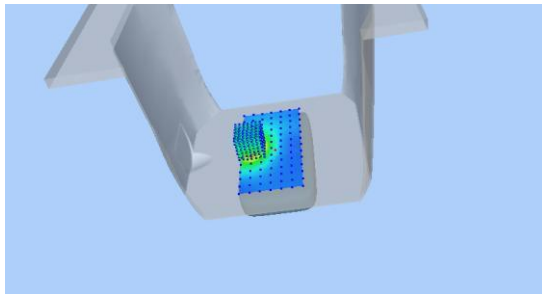
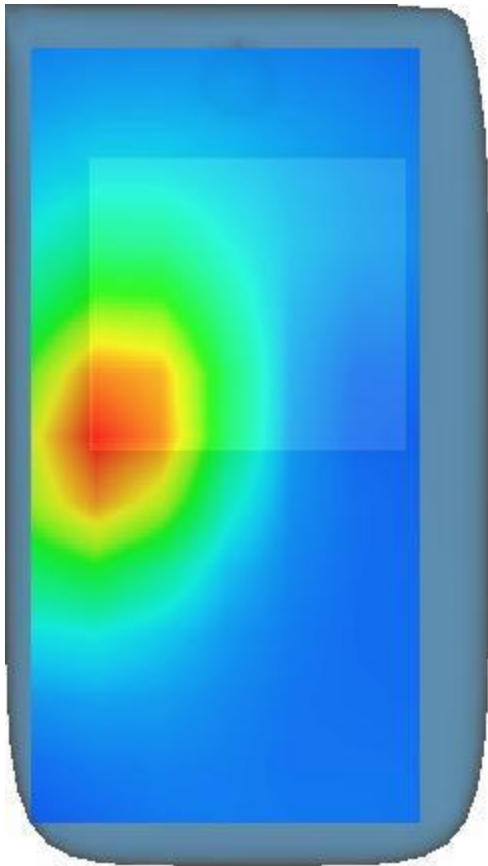
Maximum location: X=-27.00, Y=0.00

SAR Peak: 0.90 W/kg

SAR 10g (W/Kg)	0.355317
SAR 1g (W/Kg)	0.692996

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.0130	0.5408	0.2217	0.1404	0.0611	0.0359	0.0164



3D screen shot	Hot spot position
	

MEASUREMENT 11

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

Type: Phone measurement (Complete)

Date of measurement: 22/5/2017

Measurement duration: 16 minutes 48 seconds

A. Experimental conditions.

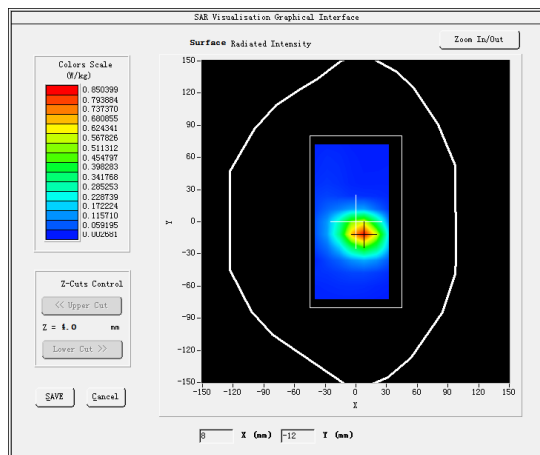
<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 41</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.6)</u>
<u>Conversion factor</u>	<u>4.07</u>

B. SAR Measurement Results

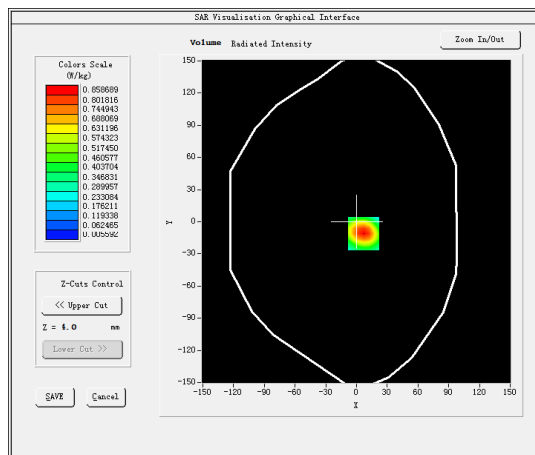
Middle Band SAR (Channel 40620):

Frequency (MHz)	2593.000000
Relative permittivity (real part)	51.980999
Relative permittivity (imaginary part)	14.418500
Conductivity (S/m)	2.084434
Variation (%)	-0.530000

SURFACE SAR



VOLUME SAR

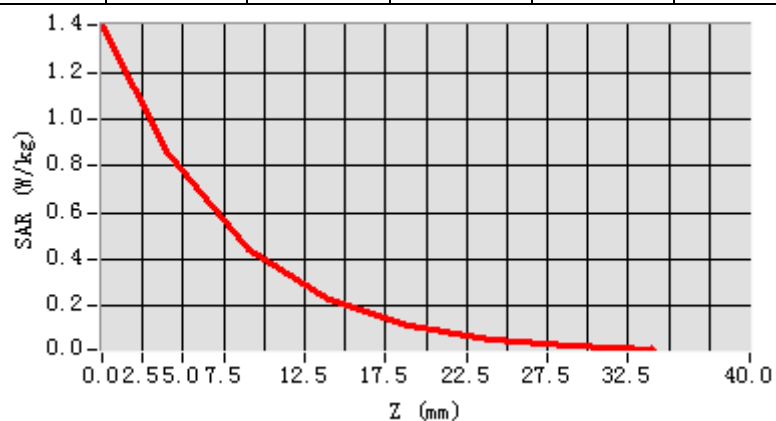


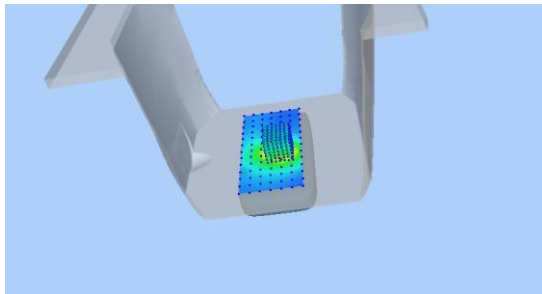
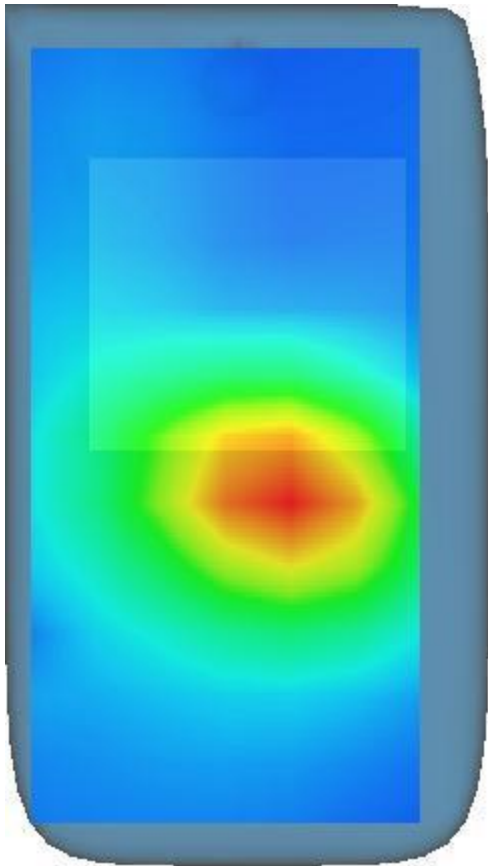
Maximum location: X=7.00, Y=-11.00

SAR Peak: 1.40 W/kg

SAR 10g (W/Kg)	0.401242
SAR 1g (W/Kg)	0.618887

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.4015	0.8587	0.4423	0.2253	0.1135	0.0573	0.0289



3D screen shot	Hot spot position
	

MEASUREMENT 12

Bottom-side-20M-50RB#50-middle

Type: Phone measurement (Complete)

Date of measurement: 22/5/2017

Measurement duration: 17 minutes 51 seconds

A. Experimental conditions.

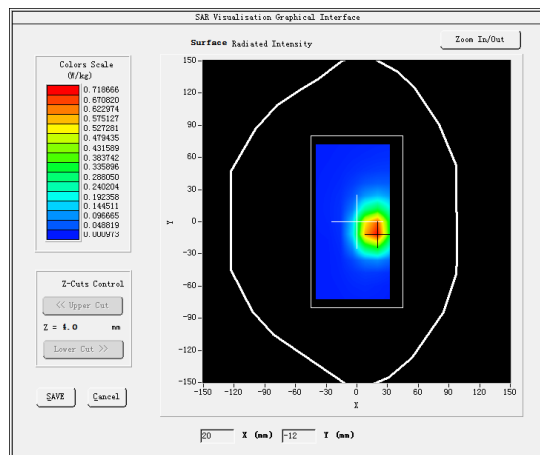
<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 41</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.6)</u>
<u>Conversion factor</u>	<u>4.07</u>

B. SAR Measurement Results

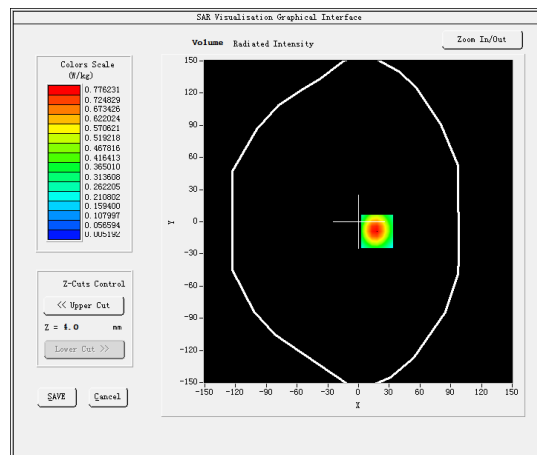
Middle Band SAR (Channel 40620):

Frequency (MHz)	2593.000000
Relative permittivity (real part)	51.980999
Relative permittivity (imaginary part)	14.418500
Conductivity (S/m)	2.084434
Variation (%)	-0.480000

SURFACE SAR



VOLUME SAR

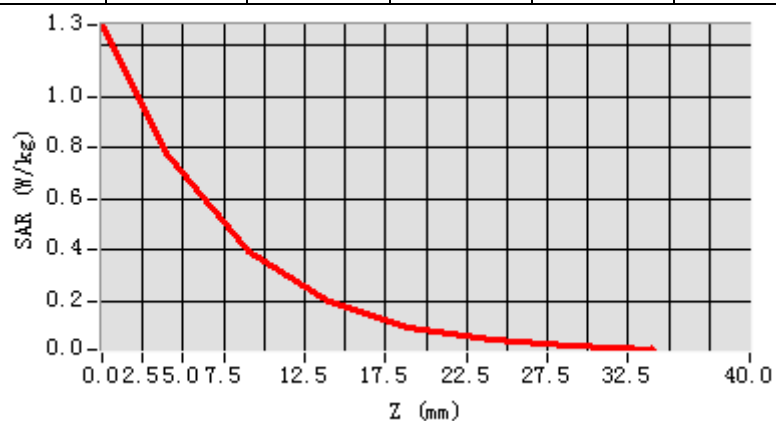


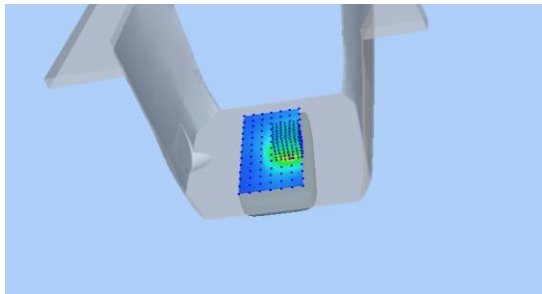
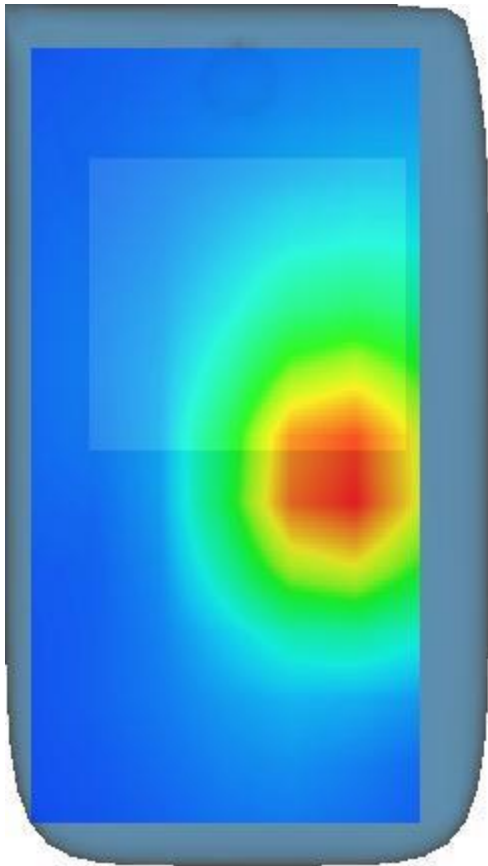
Maximum location: X=18.00, Y=-9.00

SAR Peak: 1.29 W/kg

SAR 10g (W/Kg)	0.377316
SAR 1g (W/Kg)	0.560222

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.2780	0.7762	0.3941	0.1992	0.0988	0.0492	0.0246



3D screen shot	Hot spot position
	

MEASUREMENT 13

Towards-phantom-middle

Type: Phone measurement (Complete)

Date of measurement: 20/5/2017

Measurement duration: 15 minutes 3 seconds

A. Experimental conditions.

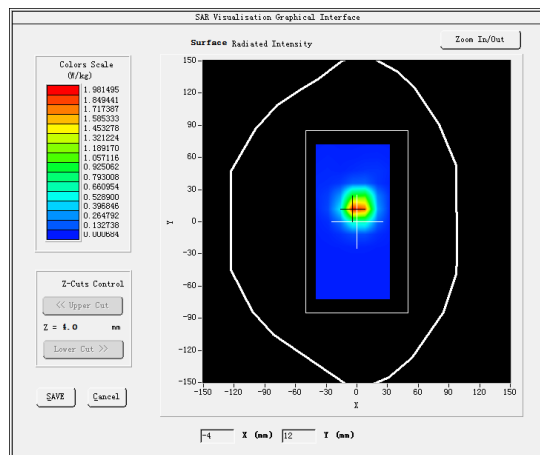
<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>IEEE 802.11b ISM</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>IEEE802.b (Crest factor: 1.0)</u>
<u>Conversion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

B. SAR Measurement Results

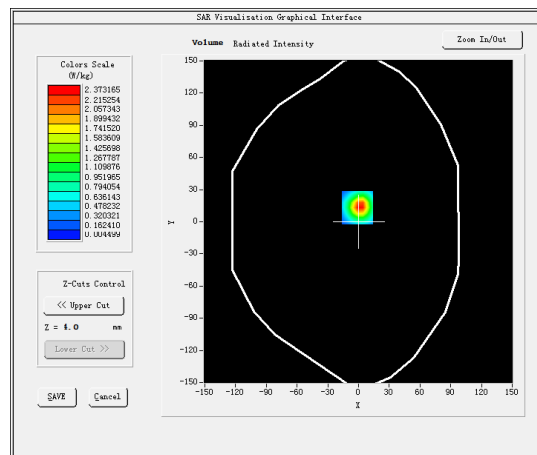
Middle Band SAR (Channel 6):

Frequency (MHz)	2437.000000
Relative permittivity (real part)	52.752100
Relative permittivity (imaginary part)	14.169239
Conductivity (S/m)	1.915193
Variation (%)	0.0000

SURFACE SAR



VOLUME SAR

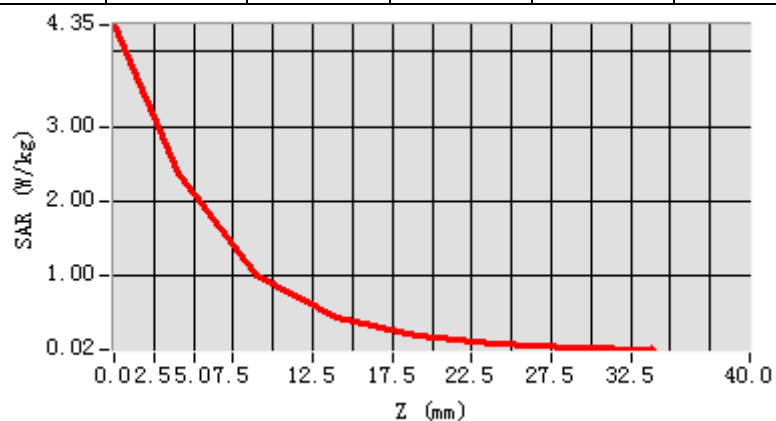


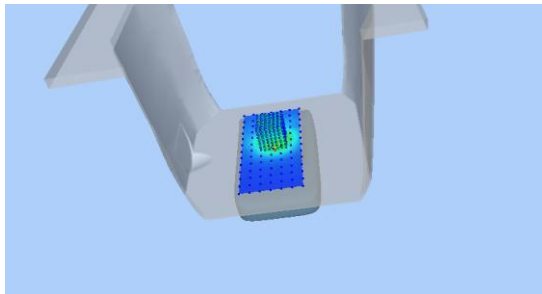
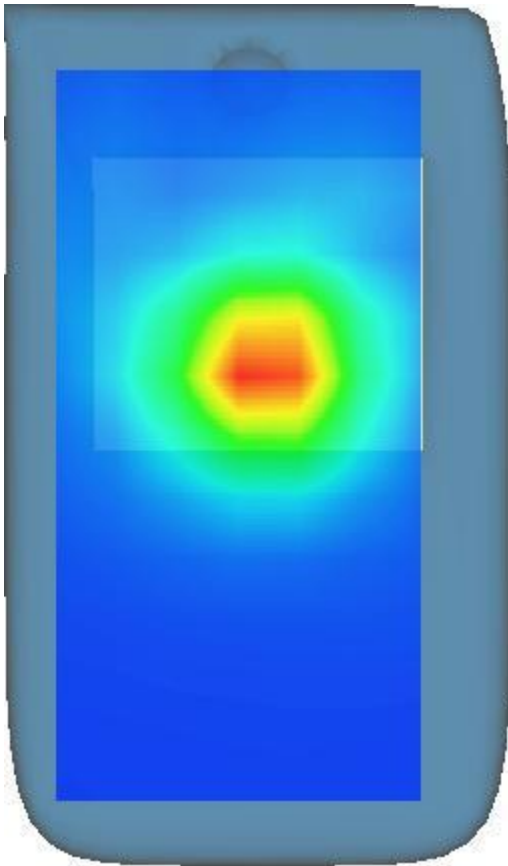
Maximum location: X=-1.00, Y=13.00

SAR Peak: 4.46 W/kg

SAR 10g (W/Kg)	0.163945
SAR 1g (W/Kg)	0.226202

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.3545	2.3732	1.0028	0.4425	0.1988	0.0914	0.0426



3D screen shot	Hot spot position
	

MEASUREMENT 14

Top-side-middle

Type: Phone measurement (Complete)

Date of measurement: 20/5/2017

Measurement duration: 13 minutes 56 seconds

A. Experimental conditions.

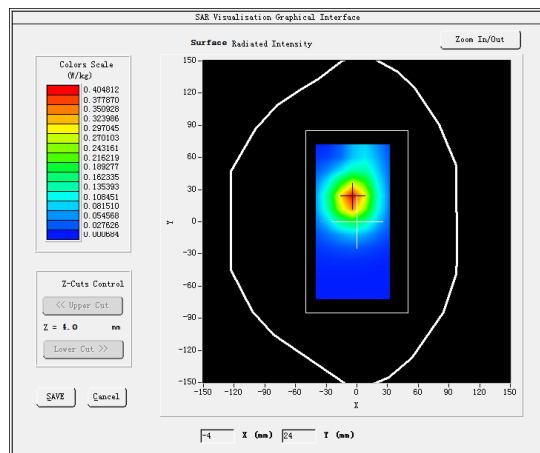
<u>Area Scan</u>	<u>dx=15mm dy=15mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>IEEE 802.11b ISM</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>IEEE802.b (Crest factor: 1.0)</u>
<u>Conversion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

B. SAR Measurement Results

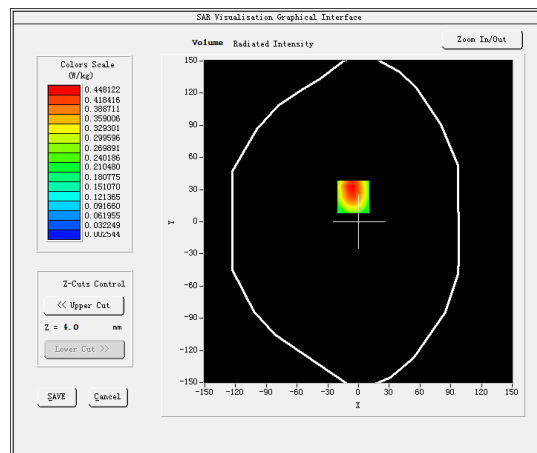
Middle Band SAR (Channel 6):

Frequency (MHz)	2437.000000
Relative permittivity (real part)	52.752100
Relative permittivity (imaginary part)	14.169239
Conductivity (S/m)	1.915193
Variation (%)	-1.460000

SURFACE SAR



VOLUME SAR

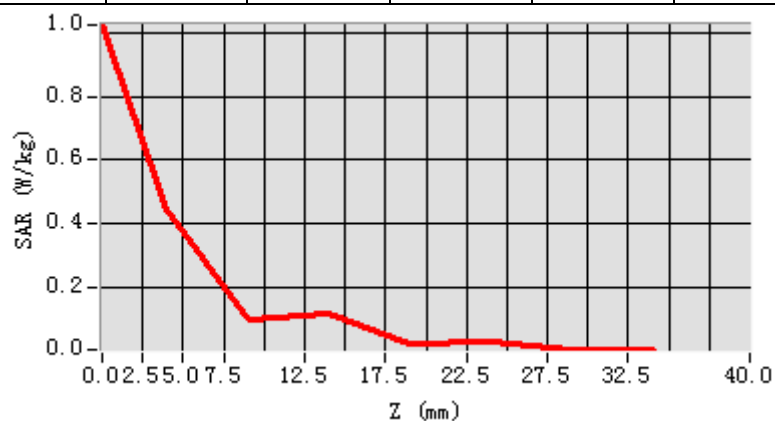


Maximum location: X=-5.00, Y=23.00

SAR Peak: 0.75 W/kg

SAR 10g (W/Kg)	0.321809
SAR 1g (W/Kg)	0.531462

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.0228	0.4481	0.0999	0.1215	0.0273	0.0321	0.0081



3D screen shot	Hot spot position
