Annex B: Measurement Results

Project Name : X557

Report Number: FCC16083920A-6

MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 23/8/2016

Measurement duration: 9 minutes 53 seconds

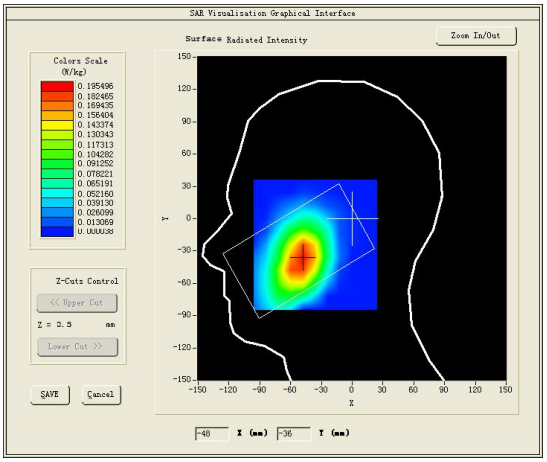
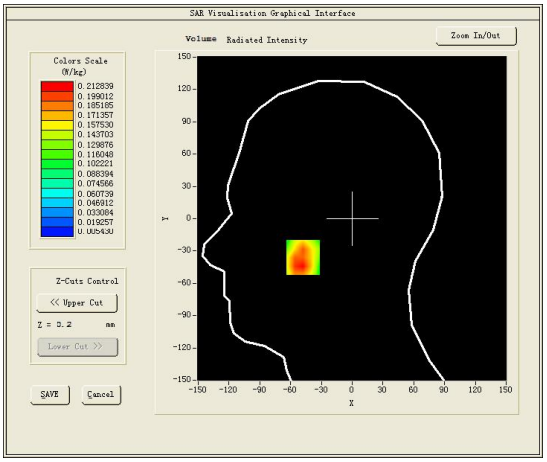
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	CUSTOM (GPRS850_4Tx)
Channels	Low
Signal	Duty Cycle: 1:2
Conversion factor	4.93

B. SAR Measurement Results

Lower Band SAR (Channel 128):

Frequency (MHz)	824.200012
Relative permittivity (real part)	40.676079
Relative permittivity (imaginary part)	19.941540
Conductivity (S/m)	0.913101
Variation (%)	-0.110000

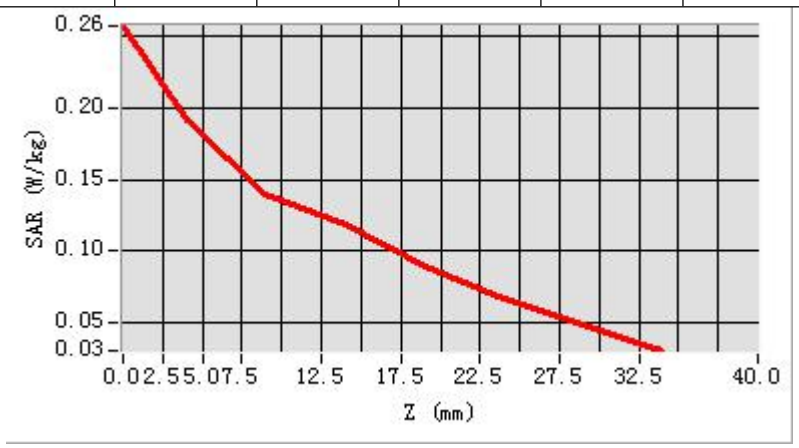
SURFACE SAR	VOLUME SAR
	

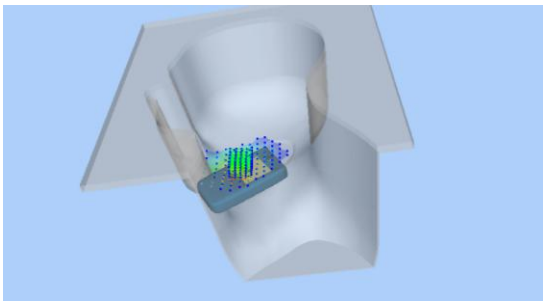
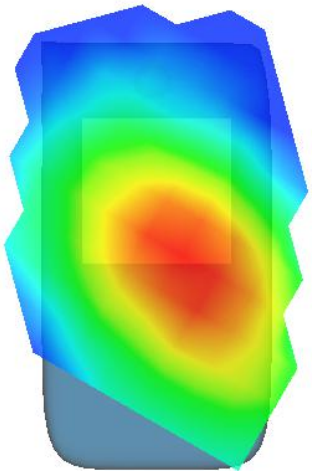
Maximum location: X=-48.00, Y=-36.00

SAR Peak: 0.30 W/kg

SAR 10g (W/Kg)	0.138546
SAR 1g (W/Kg)	0.210511

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2567	0.1909	0.1389	0.1183	0.0897	0.0669	0.0482



3D screen shot	Hot spot position
	

MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 23/8/2016

Measurement duration: 9 minutes 55 seconds

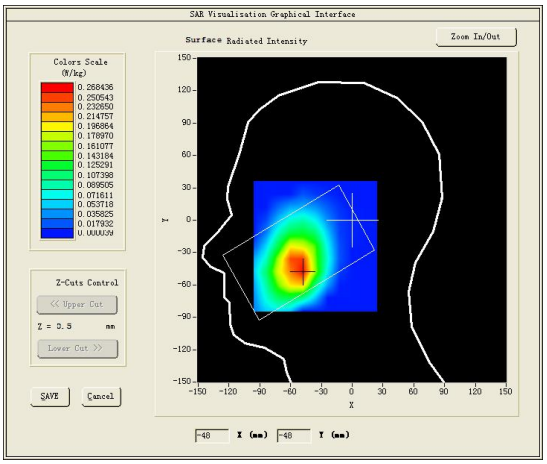
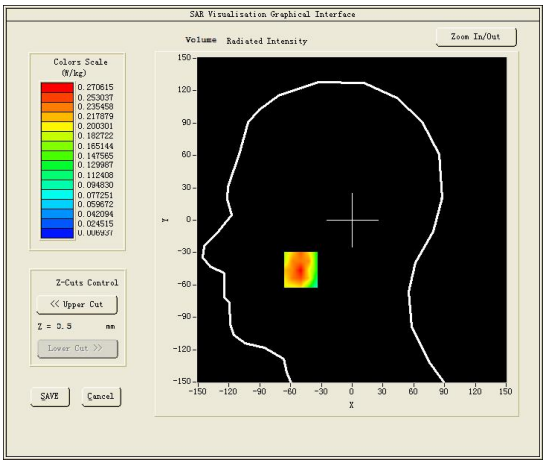
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	CUSTOM (GPRS850_4Tx)
Channels	Middle
Signal	Duty Cycle: 1:2
Conversion factor	4.93

B. SAR Measurement Results

Middle Band SAR (Channel 190):

Frequency (MHz)	836.599976
Relative permittivity (real part)	40.527519
Relative permittivity (imaginary part)	19.956440
Conductivity (S/m)	0.927531
Variation (%)	-3.200000

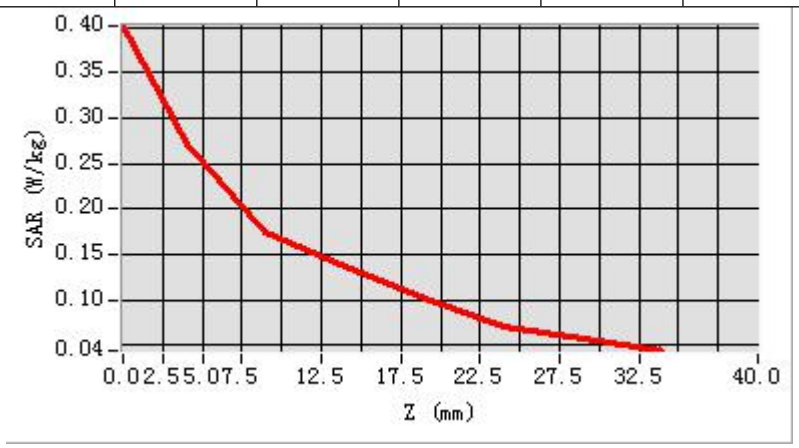
SURFACE SAR	VOLUME SAR
	

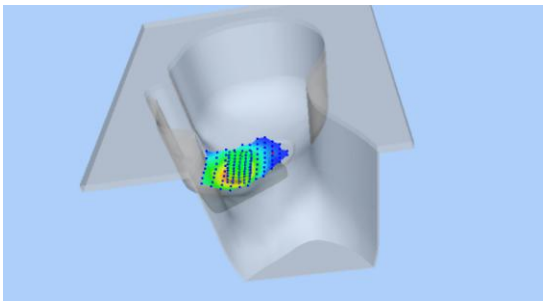
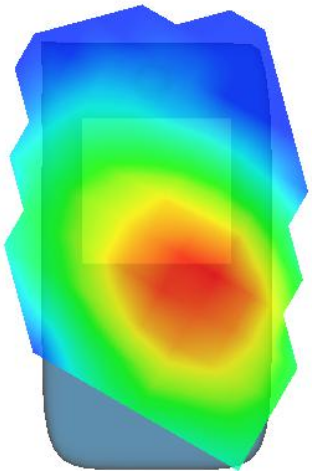
Maximum location: X=-50.00, Y=-46.00

SAR Peak: 0.41 W/kg

SAR 10g (W/Kg)	0.178411
SAR 1g (W/Kg)	0.268429

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4012	0.2706	0.1730	0.1374	0.1017	0.0693	0.0575



3D screen shot	Hot spot position
	

MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 23/8/2016

Measurement duration: 9 minutes 45 seconds

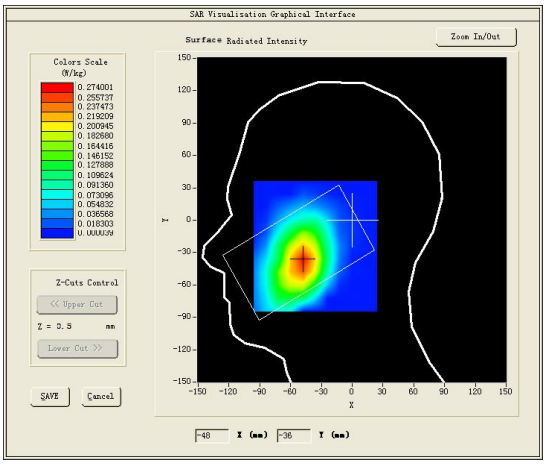
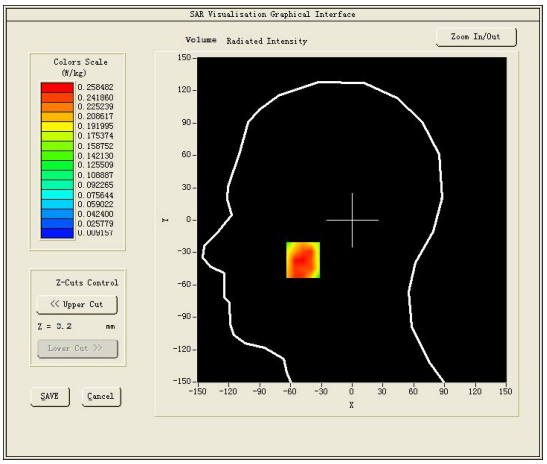
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	CUSTOM (GPRS850_4Tx)
Channels	High
Signal	Duty Cycle: 1:2
Conversion factor	4.93

B. SAR Measurement Results

Higher Band SAR (Channel 251):

Frequency (MHz)	848.799988
Relative permittivity (real part)	40.332939
Relative permittivity (imaginary part)	20.024380
Conductivity (S/m)	0.944261
Variation (%)	1.840000

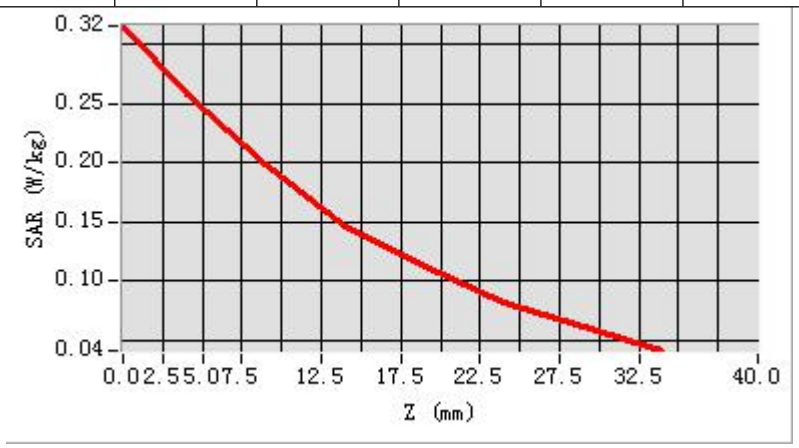
SURFACE SAR	VOLUME SAR
	

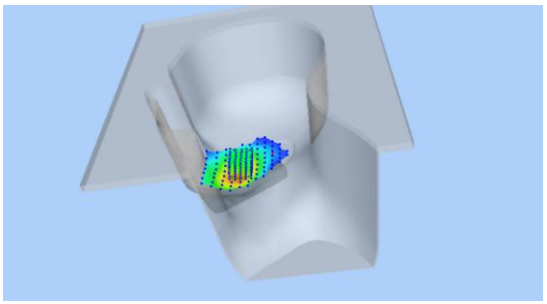
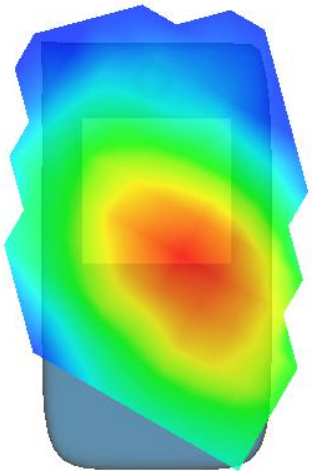
Maximum location: X=-48.00, Y=-37.00

SAR Peak: 0.37 W/kg

SAR 10g (W/Kg)	0.176805
SAR 1g (W/Kg)	0.258664

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3153	0.2585	0.1985	0.1460	0.1127	0.0822	0.0621



3D screen shot	Hot spot position
	

MEASUREMENT 4

Type: Phone measurement (Complete)

Date of measurement: 23/8/2016

Measurement duration: 8 minutes 59 seconds

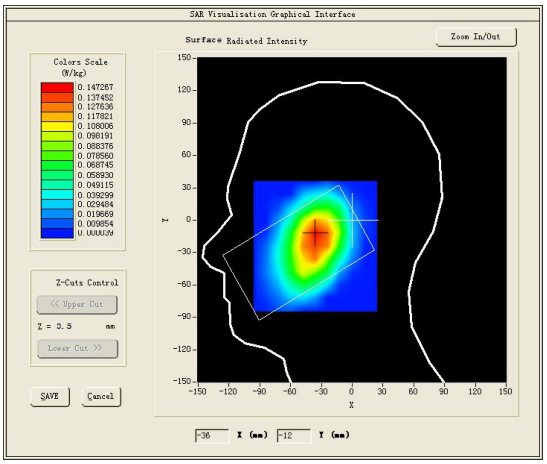
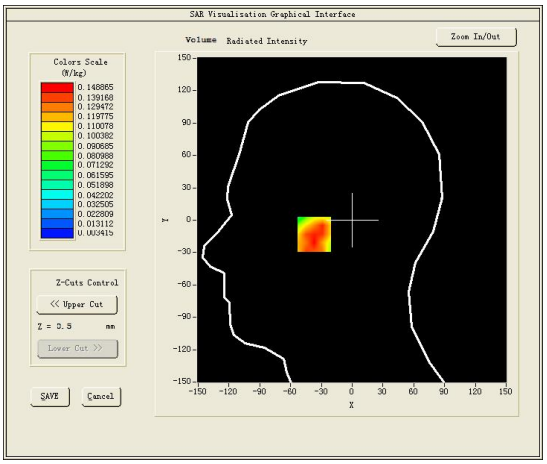
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Tilt
Band	CUSTOM (GPRS850_4Tx)
Channels	Middle
Signal	Duty Cycle: 1:2
Conversion factor	4.93

B. SAR Measurement Results

Middle Band SAR (Channel 190):

Frequency (MHz)	836.599976
Relative permittivity (real part)	40.527519
Relative permittivity (imaginary part)	19.956440
Conductivity (S/m)	0.927531
Variation (%)	-1.420000

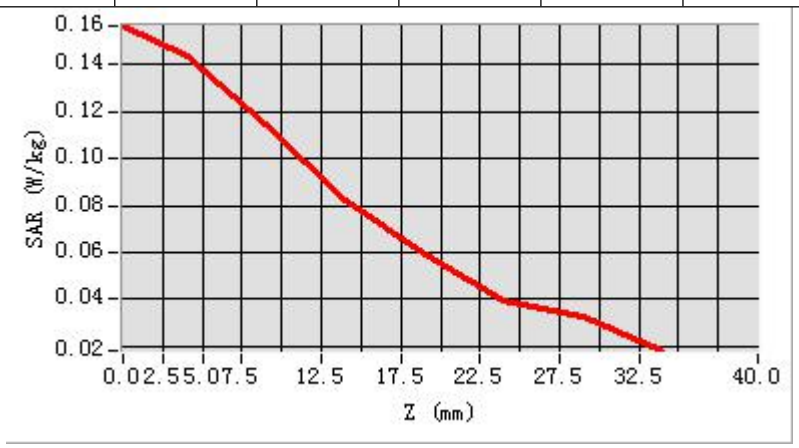
SURFACE SAR	VOLUME SAR
	

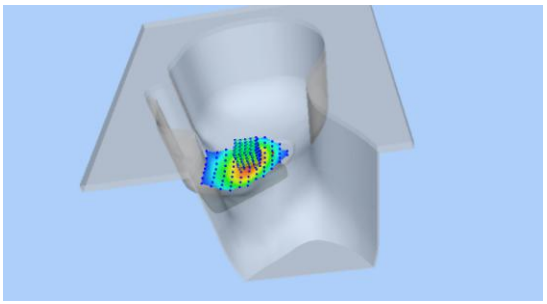
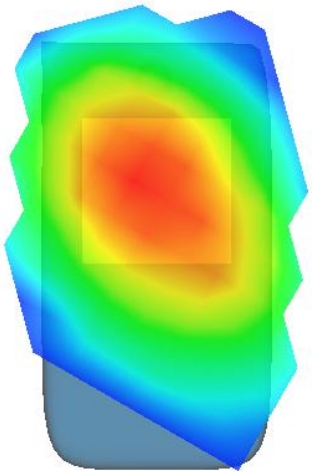
Maximum location: X=-35.00, Y=-13.00

SAR Peak: 0.21 W/kg

SAR 10g (W/Kg)	0.099195
SAR 1g (W/Kg)	0.145378

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1565	0.1441	0.1145	0.0820	0.0593	0.0395	0.0325



3D screen shot	Hot spot position
	

MEASUREMENT 5

Type: Phone measurement (Complete)

Date of measurement: 23/8/2016

Measurement duration: 9 minutes 36 seconds

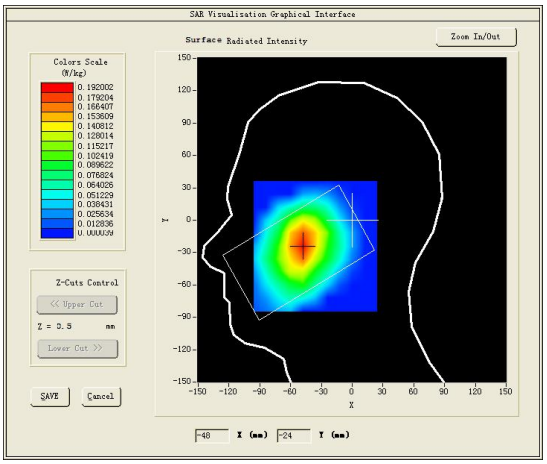
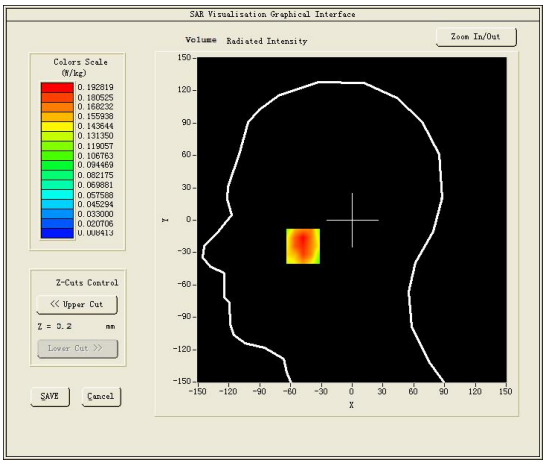
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Left head
Device Position	Cheek
Band	CUSTOM (GPRS850_4Tx)
Channels	Middle
Signal	Duty Cycle: 1:2
Conversion factor	4.93

B. SAR Measurement Results

Middle Band SAR (Channel 190):

Frequency (MHz)	836.599976
Relative permittivity (real part)	40.527519
Relative permittivity (imaginary part)	19.956440
Conductivity (S/m)	0.927531
Variation (%)	2.900000

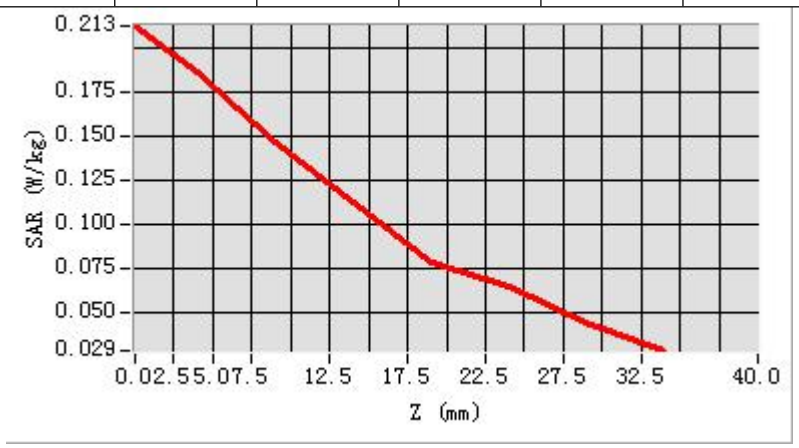
SURFACE SAR	VOLUME SAR
	

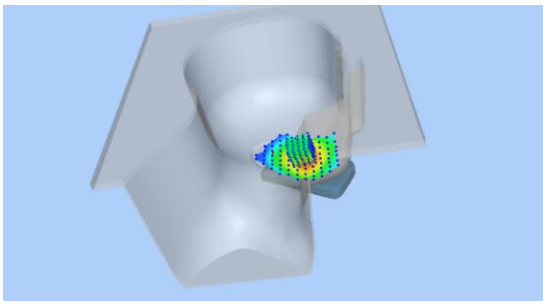
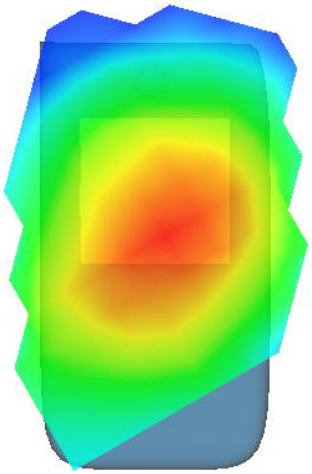
Maximum location: X=-48.00, Y=-24.00

SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.131960
SAR 1g (W/Kg)	0.188561

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2127	0.1863	0.1469	0.1127	0.0785	0.0646	0.0446



3D screen shot	Hot spot position
	

MEASUREMENT 6

Type: Phone measurement (Complete)

Date of measurement: 23/8/2016

Measurement duration: 8 minutes 54 seconds

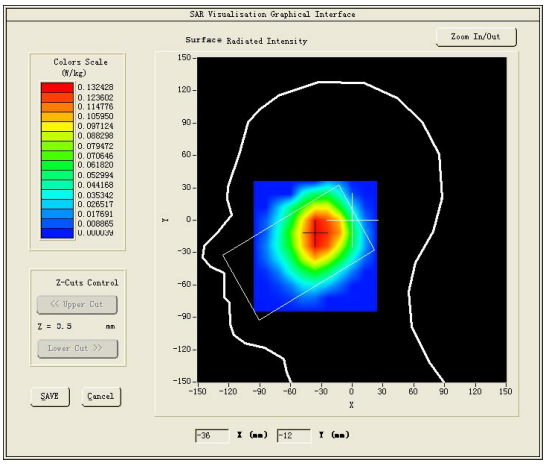
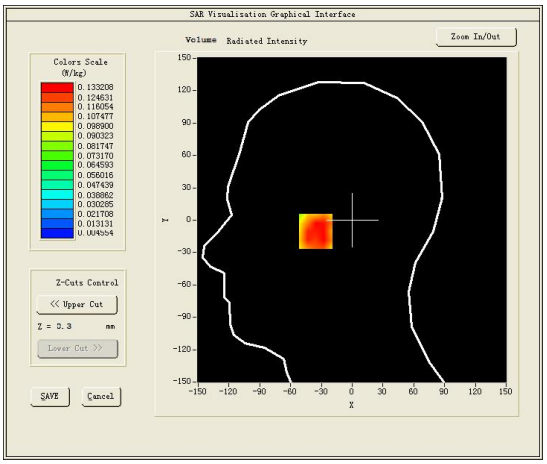
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Left head
Device Position	Tilt
Band	CUSTOM (GPRS850_4Tx)
Channels	Middle
Signal	Duty Cycle: 1:2
Conversion factor	4.93

B. SAR Measurement Results

Middle Band SAR (Channel 190):

Frequency (MHz)	836.599976
Relative permittivity (real part)	40.527519
Relative permittivity (imaginary part)	19.956440
Conductivity (S/m)	0.927531
Variation (%)	-4.450000

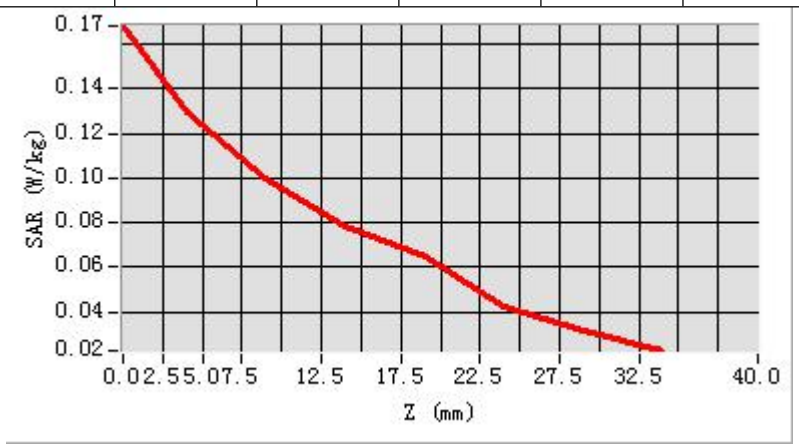
SURFACE SAR	VOLUME SAR
	

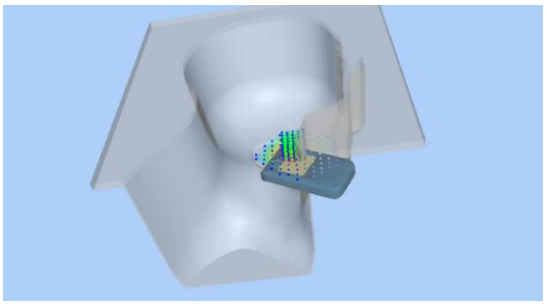
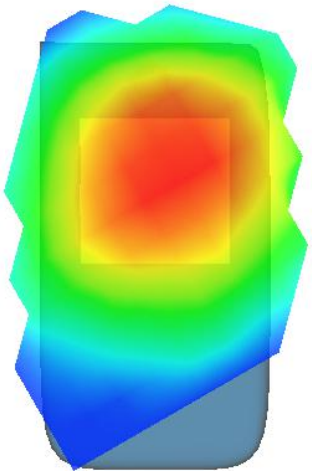
Maximum location: X=-33.00, Y=-10.00

SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.096648
SAR 1g (W/Kg)	0.139961

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1681	0.1296	0.0997	0.0784	0.0650	0.0425	0.0317



3D screen shot	Hot spot position
	

MEASUREMENT 7

Type: Phone measurement (Complete)

Date of measurement: 25/8/2016

Measurement duration: 10 minutes 9 seconds

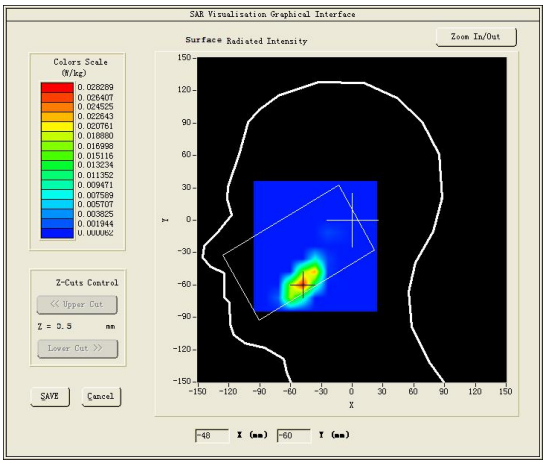
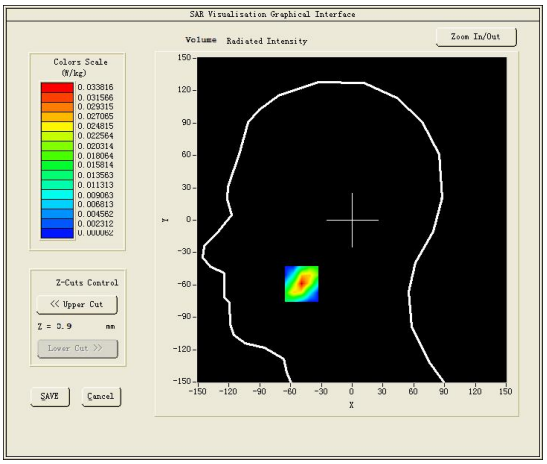
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	CUSTOM (GPRS1900_4TX)
Channels	Low
Signal	Duty Cycle: 1:2
Conversion factor	4.63

B. SAR Measurement Results

Lower Band SAR (Channel 512):

Frequency (MHz)	1850.199951
Relative permittivity (real part)	40.075100
Relative permittivity (imaginary part)	13.412000
Conductivity (S/m)	1.378605
Variation (%)	0.000000

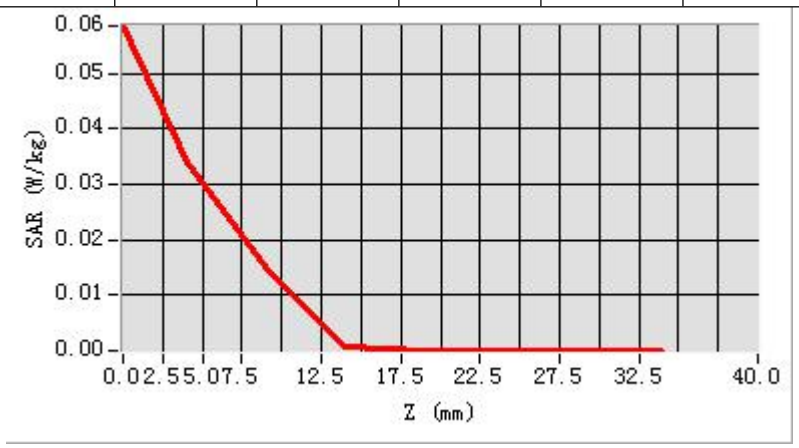
SURFACE SAR	VOLUME SAR
	

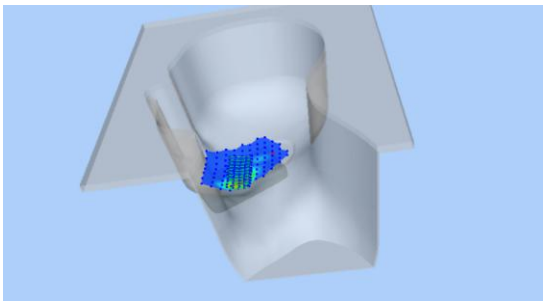
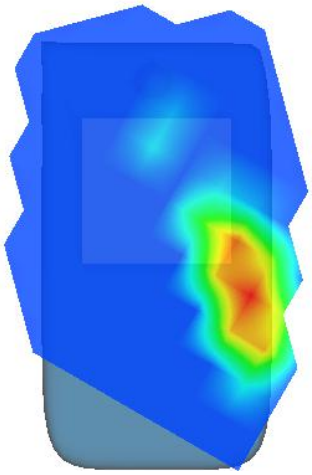
Maximum location: X=-49.00, Y=-59.00

SAR Peak: 0.06 W/kg

SAR 10g (W/Kg)	0.010924
SAR 1g (W/Kg)	0.030098

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0585	0.0338	0.0153	0.0008	0.0001	0.0001	0.0001



3D screen shot	Hot spot position
	

MEASUREMENT 8

Type: Phone measurement (Complete)

Date of measurement: 25/8/2016

Measurement duration: 10 minutes 10 seconds

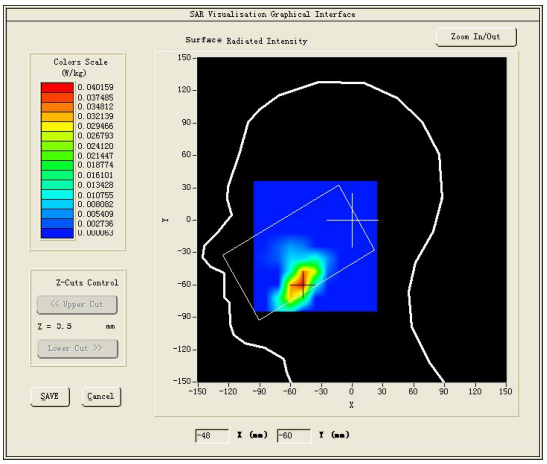
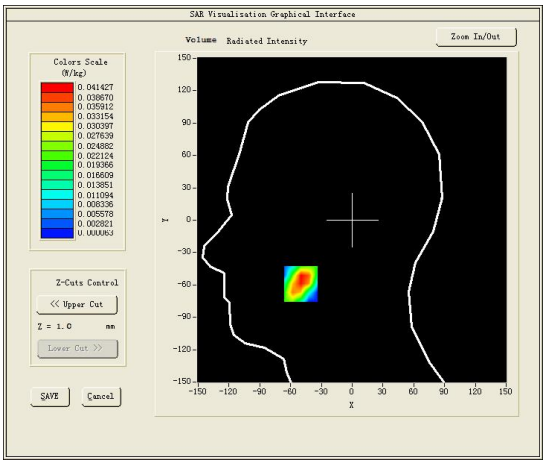
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	CUSTOM (GPRS1900_4TX)
Channels	Middle
Signal	Duty Cycle: 1:2
Conversion factor	4.63

B. SAR Measurement Results

Middle Band SAR (Channel 661):

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

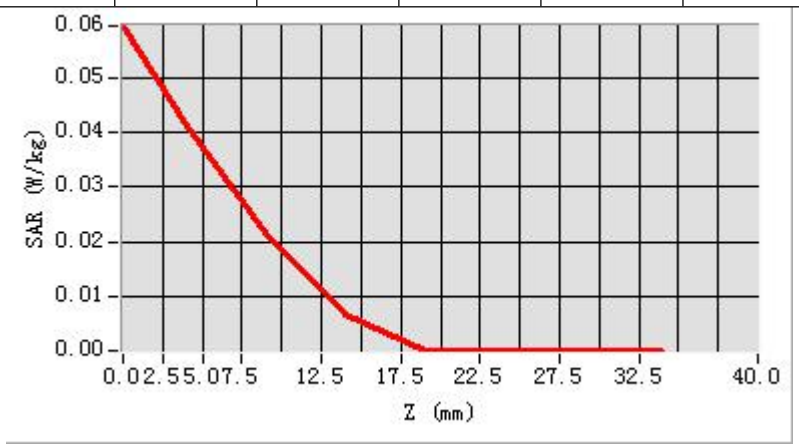
SURFACE SAR	VOLUME SAR
	

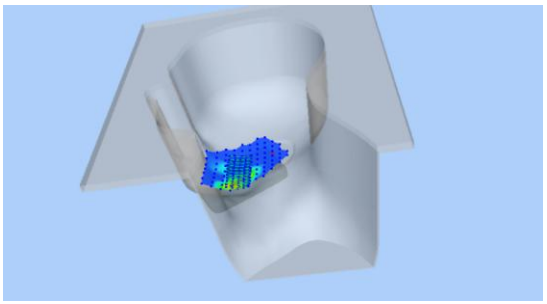
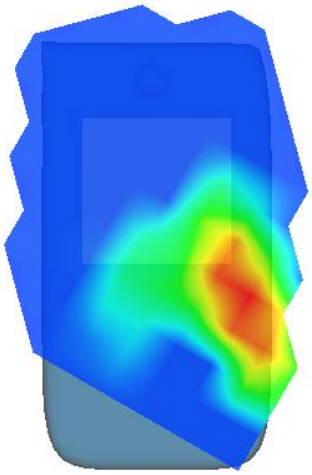
Maximum location: X=-50.00, Y=-59.00

SAR Peak: 0.08 W/kg

SAR 10g (W/Kg)	0.015912
SAR 1g (W/Kg)	0.039566

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0594	0.0410	0.0217	0.0067	0.0001	0.0001	0.0001



3D screen shot	Hot spot position
	

MEASUREMENT 9

Type: Phone measurement (Complete)

Date of measurement: 25/8/2016

Measurement duration: 10 minutes 9 seconds

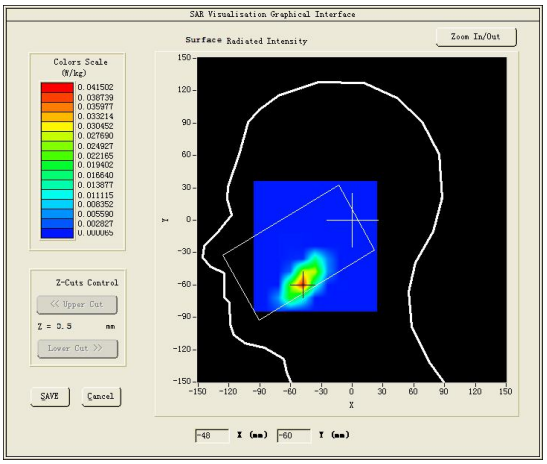
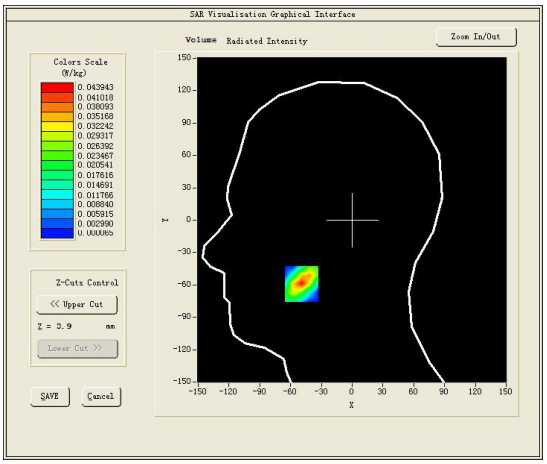
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	CUSTOM (GPRS1900_4TX)
Channels	High
Signal	Duty Cycle: 1:2
Conversion factor	4.63

B. SAR Measurement Results

Higher Band SAR (Channel 810):

Frequency (MHz)	1909.800049
Relative permittivity (real part)	40.033501
Relative permittivity (imaginary part)	13.583700
Conductivity (S/m)	1.441231
Variation (%)	0.000000

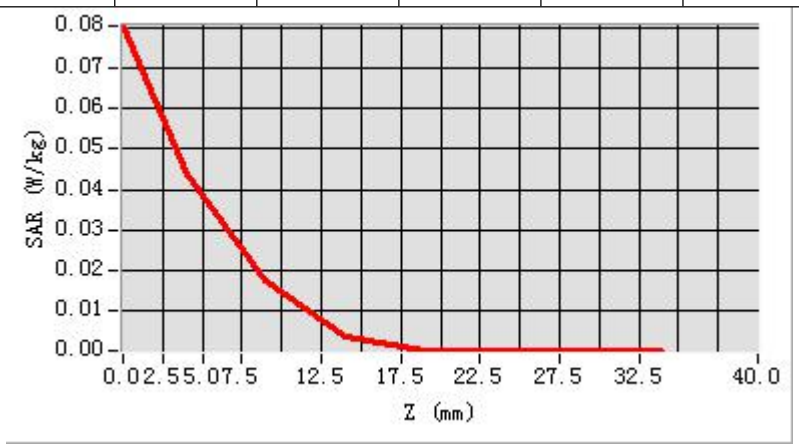
SURFACE SAR	VOLUME SAR
	

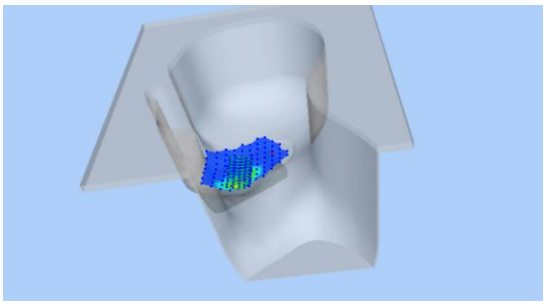
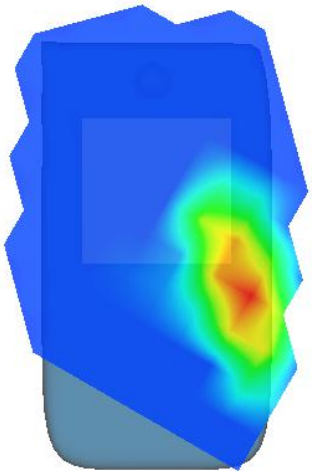
Maximum location: X=-49.00, Y=-59.00

SAR Peak: 0.08 W/kg

SAR 10g (W/Kg)	0.015514
SAR 1g (W/Kg)	0.040471

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0804	0.0439	0.0175	0.0033	0.0001	0.0001	0.0001



3D screen shot	Hot spot position
	

MEASUREMENT 10

Type: Phone measurement (Complete)

Date of measurement: 25/8/2016

Measurement duration: 8 minutes 44 seconds

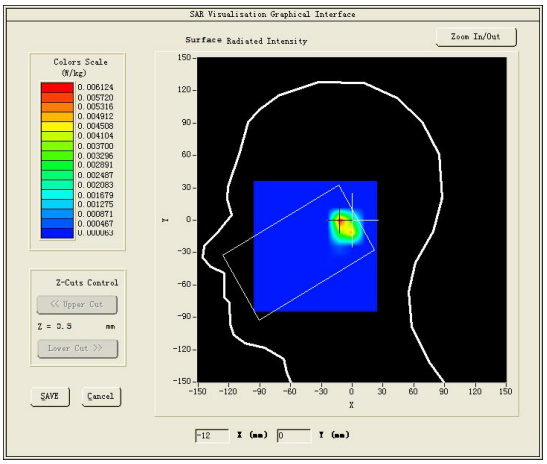
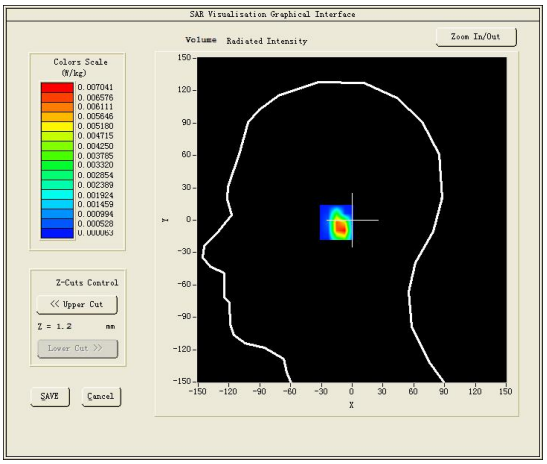
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Tilt
Band	CUSTOM (GPRS1900_4TX)
Channels	Middle
Signal	Duty Cycle: 1:2
Conversion factor	4.63

B. SAR Measurement Results

Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.054401
Relative permittivity (imaginary part)	13.497900
Conductivity (S/m)	1.409781
Variation (%)	3.340000

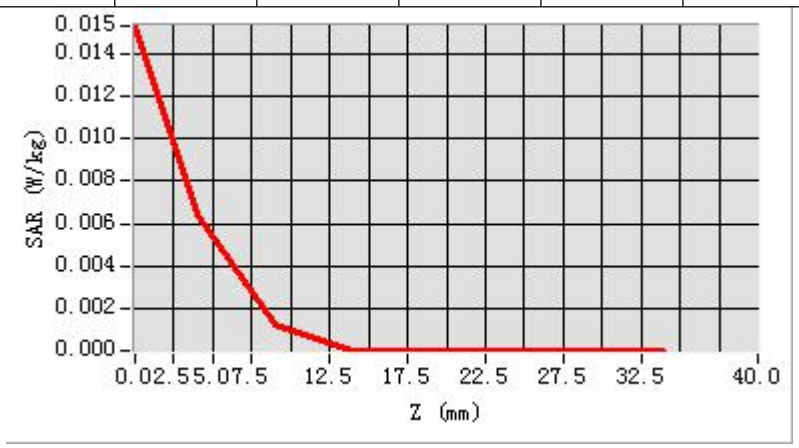
SURFACE SAR	VOLUME SAR
	

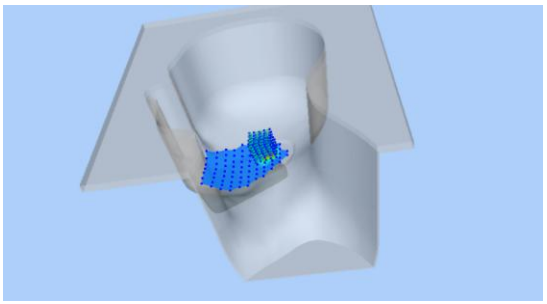
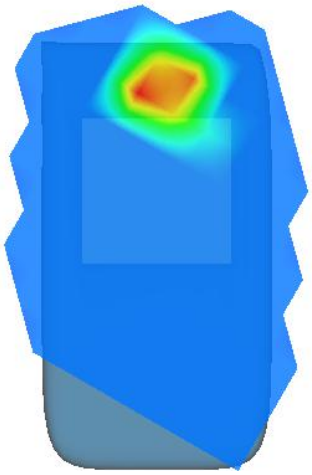
Maximum location: X=-10.00, Y=-2.00

SAR Peak: 0.02 W/kg

SAR 10g (W/Kg)	0.002114
SAR 1g (W/Kg)	0.008254

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0153	0.0064	0.0013	0.0001	0.0001	0.0001	0.0001



3D screen shot	Hot spot position
	

MEASUREMENT 11

Type: Phone measurement (Complete)

Date of measurement: 25/8/2016

Measurement duration: 10 minutes 11 seconds

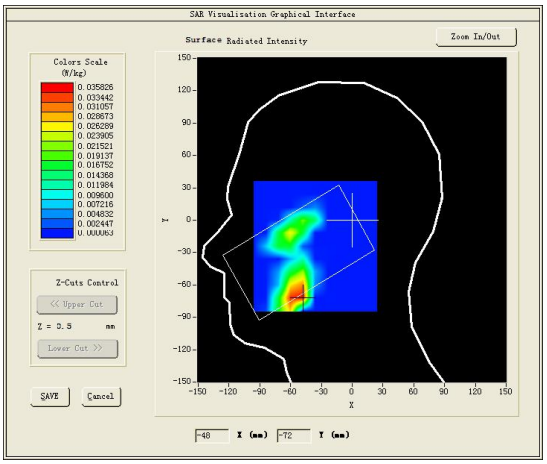
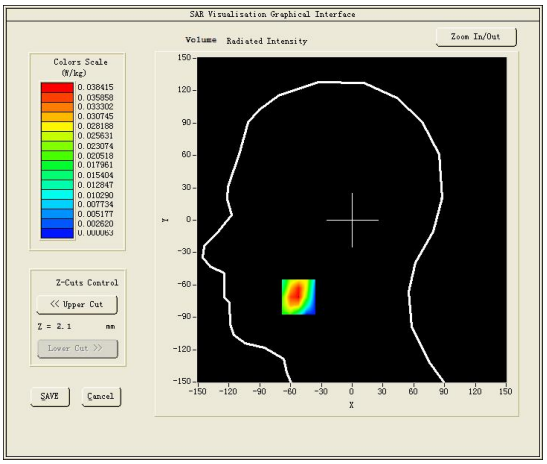
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Left head
Device Position	Cheek
Band	CUSTOM (GPRS1900_4TX)
Channels	Middle
Signal	Duty Cycle: 1:2
Conversion factor	4.63

B. SAR Measurement Results

Middle Band SAR (Channel 661):

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

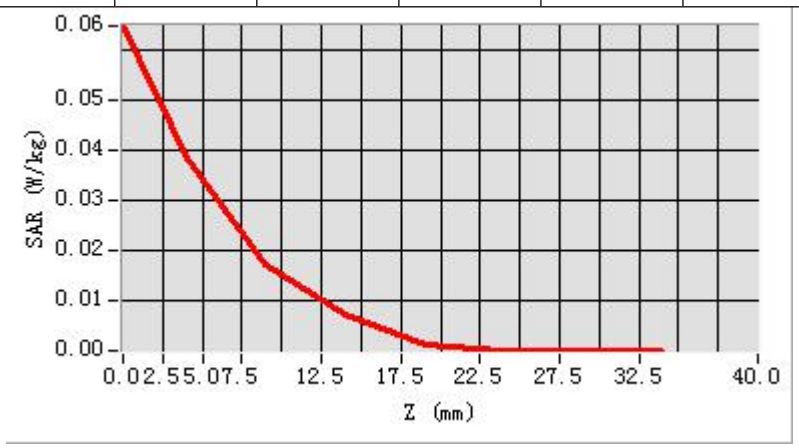
SURFACE SAR	VOLUME SAR
	

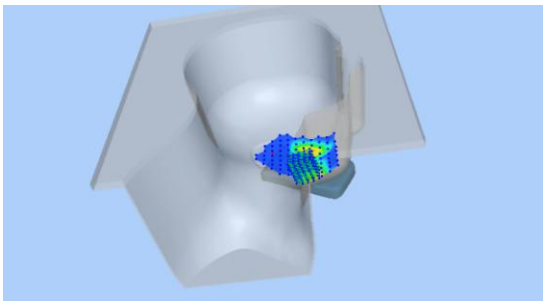
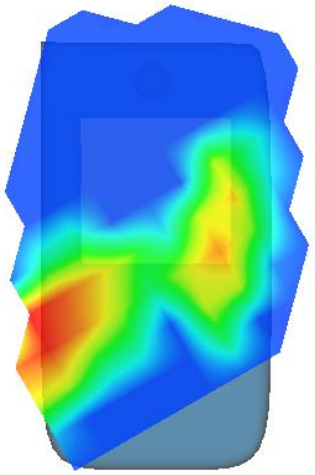
Maximum location: X=-52.00, Y=-71.00

SAR Peak: 0.06 W/kg

SAR 10g (W/Kg)	0.016219
SAR 1g (W/Kg)	0.036679

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0650	0.0384	0.0171	0.0072	0.0011	0.0001	0.0001



3D screen shot	Hot spot position
	

MEASUREMENT 12

Type: Phone measurement (Complete)

Date of measurement: 25/8/2016

Measurement duration: 8 minutes 57 seconds

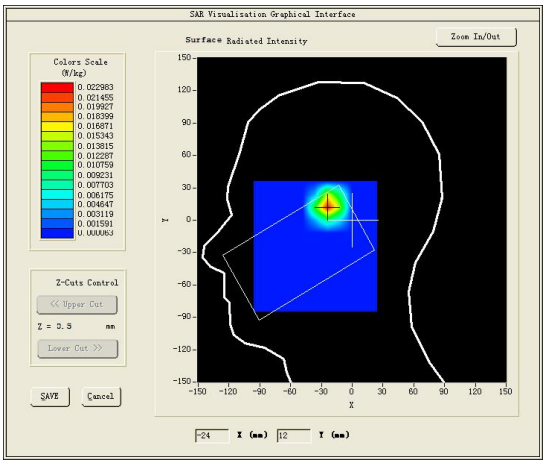
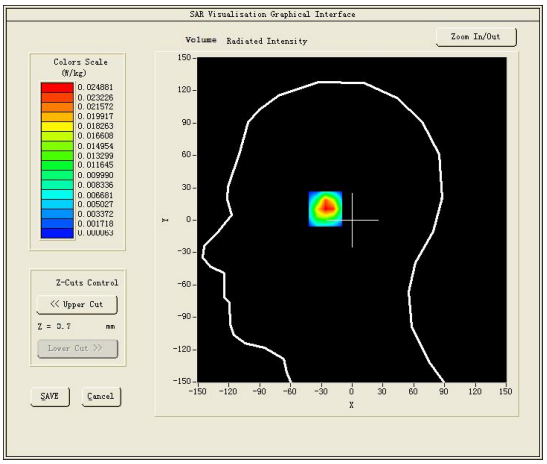
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Left head
Device Position	Tilt
Band	CUSTOM (GPRS1900_4TX)
Channels	Middle
Signal	Duty Cycle: 1:2
Conversion factor	4.63

B. SAR Measurement Results

Middle Band SAR (Channel 661):

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

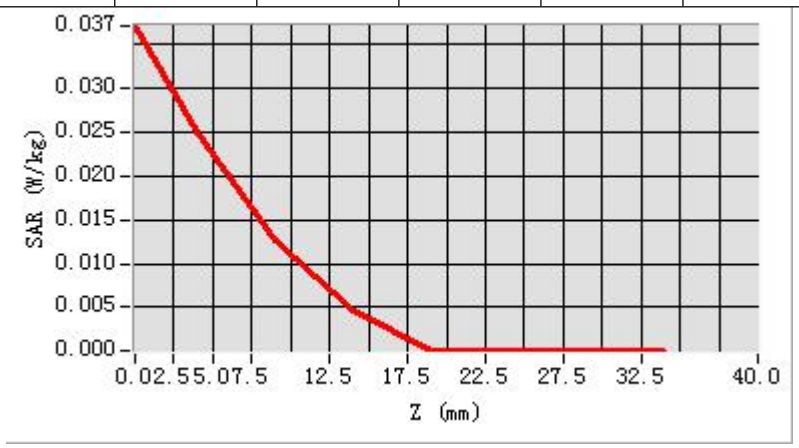
SURFACE SAR	VOLUME SAR
	

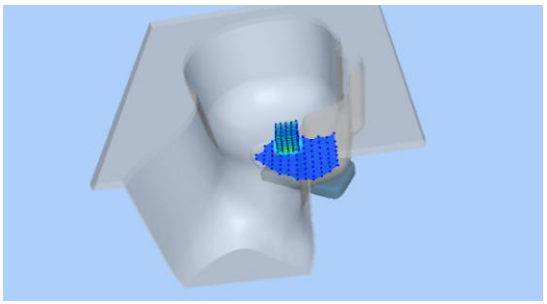
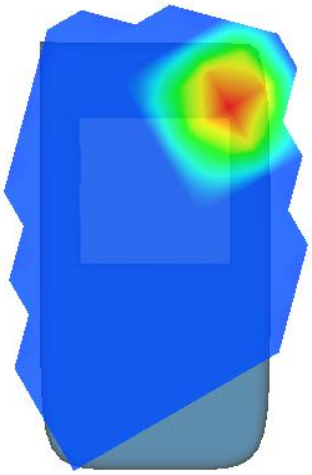
Maximum location: X=-24.00, Y=13.00

SAR Peak: 0.04 W/kg

SAR 10g (W/Kg)	0.008788
SAR 1g (W/Kg)	0.022973

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0371	0.0249	0.0127	0.0046	0.0001	0.0001	0.0001



3D screen shot	Hot spot position
	

MEASUREMENT 13

Type: Phone measurement (Complete)

Date of measurement: 23/8/2016

Measurement duration: 9 minutes 45 seconds

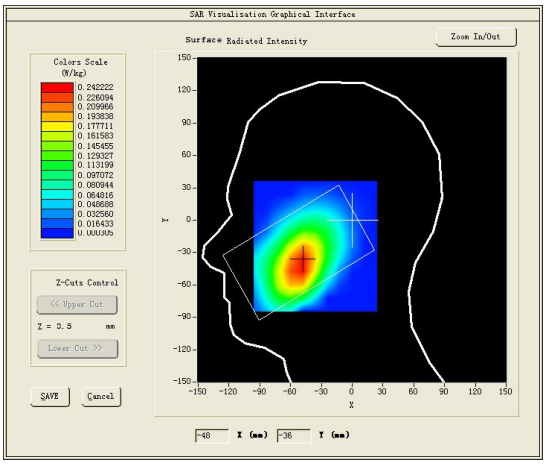
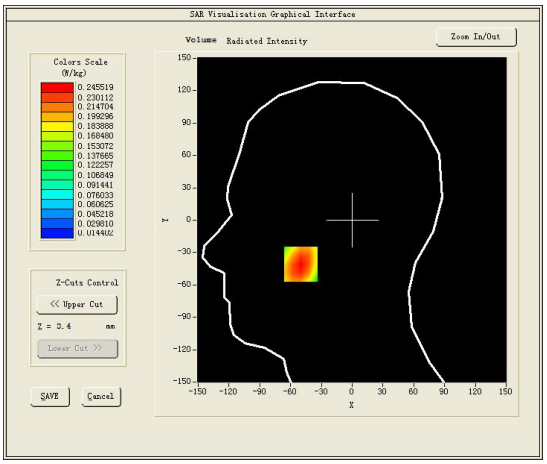
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	Band5_WCDMA850
Channels	Low
Signal	WCDMA (Crest factor: 1.0)
Conversion factor	4.93

B. SAR Measurement Results

Lower Band SAR (Channel 4132):

Frequency (MHz)	826.400024
Relative permittivity (real part)	40.731480
Relative permittivity (imaginary part)	19.941460
Conductivity (S/m)	0.915535
Variation (%)	2.010000

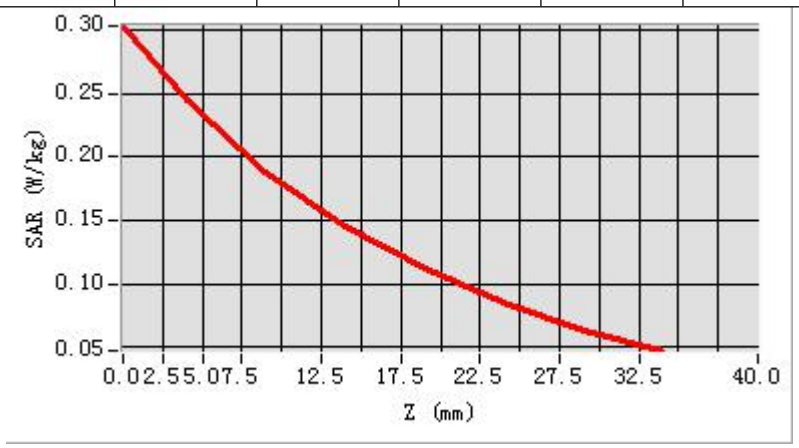
SURFACE SAR	VOLUME SAR
	

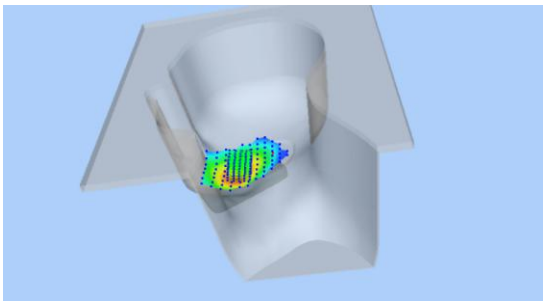
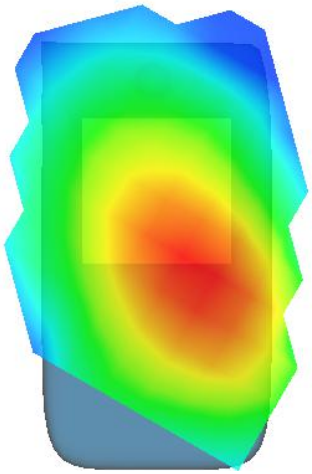
Maximum location: X=-50.00, Y=-41.00

SAR Peak: 0.31 W/kg

SAR 10g (W/Kg)	0.171135
SAR 1g (W/Kg)	0.241083

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3035	0.2455	0.1888	0.1462	0.1118	0.0851	0.0637



3D screen shot	Hot spot position
	

MEASUREMENT 14

Type: Phone measurement (Complete)

Date of measurement: 23/8/2016

Measurement duration: 9 minutes 45 seconds

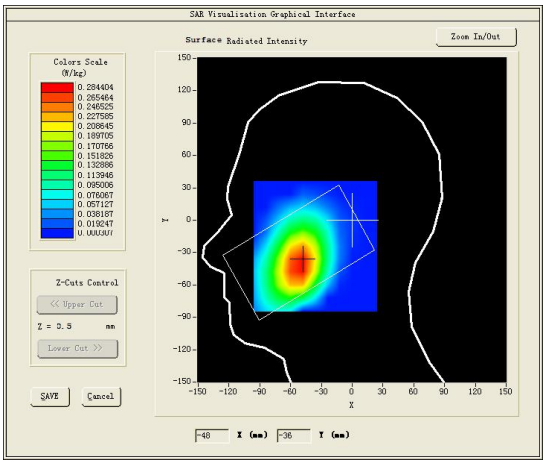
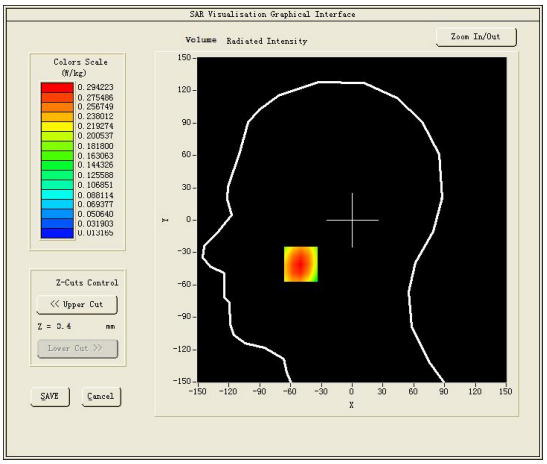
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	Band5_WCDMA850
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)
Conversion factor	4.93

B. SAR Measurement Results

Middle Band SAR (Channel 4182):

Frequency (MHz)	836.400024
Relative permittivity (real part)	40.538380
Relative permittivity (imaginary part)	19.960159
Conductivity (S/m)	0.927482
Variation (%)	-0.970000

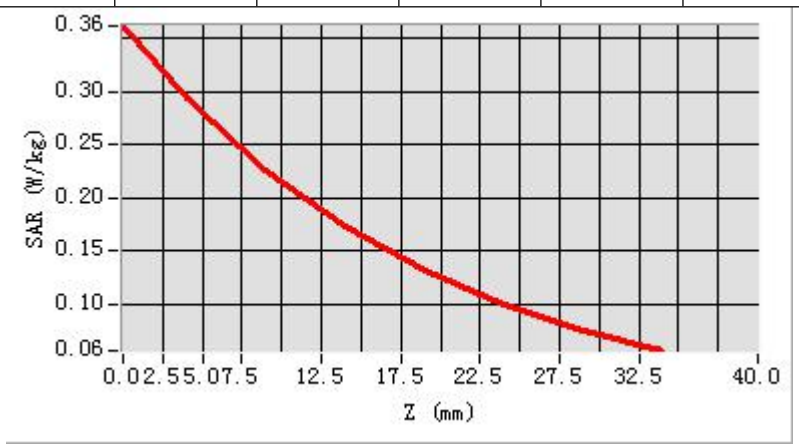
SURFACE SAR	VOLUME SAR
	

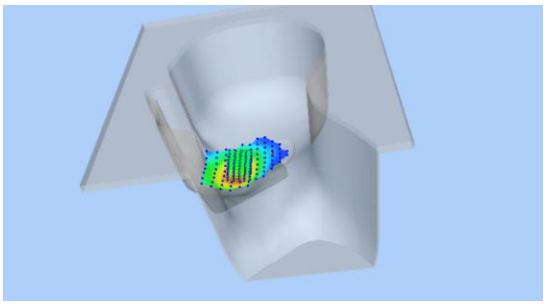
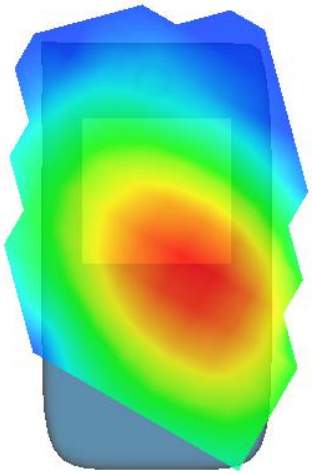
Maximum location: X=-50.00, Y=-41.00

SAR Peak: 0.37 W/kg

SAR 10g (W/Kg)	0.206880
SAR 1g (W/Kg)	0.291028

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3619	0.2942	0.2260	0.1734	0.1317	0.0995	0.0748



3D screen shot	Hot spot position
	

MEASUREMENT 15

Type: Phone measurement (Complete)

Date of measurement: 23/8/2016

Measurement duration: 9 minutes 49 seconds

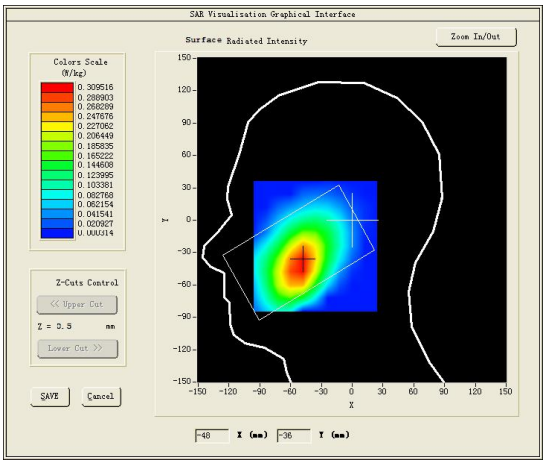
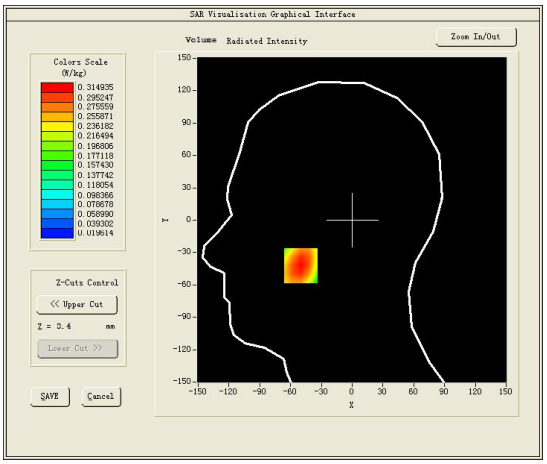
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	Band5_WCDMA850
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Conversion factor	4.93

B. SAR Measurement Results

Higher Band SAR (Channel 4233):

Frequency (MHz)	846.599976
Relative permittivity (real part)	40.353241
Relative permittivity (imaginary part)	20.023140
Conductivity (S/m)	0.941755
Variation (%)	2.500000

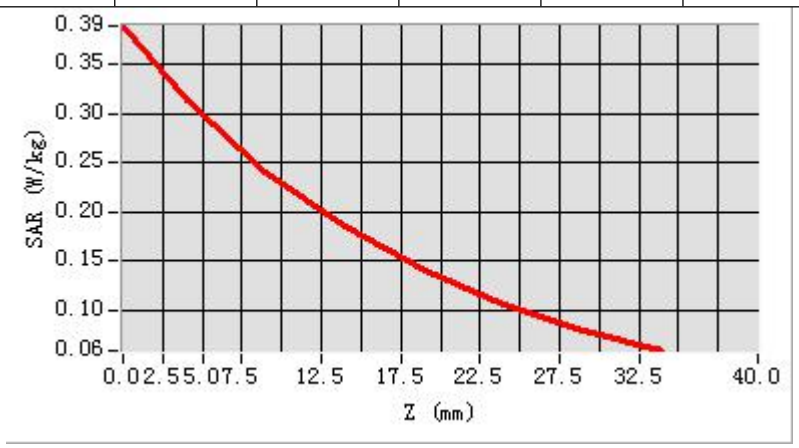
SURFACE SAR	VOLUME SAR
	

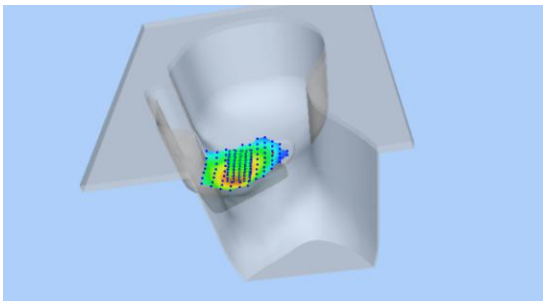
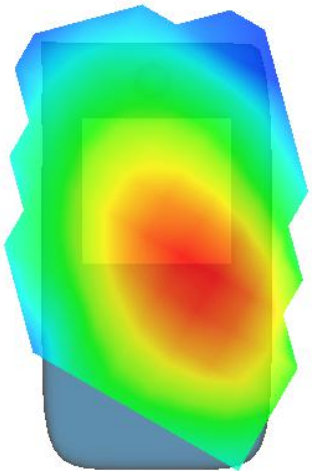
Maximum location: X=-50.00, Y=-42.00

SAR Peak: 0.39 W/kg

SAR 10g (W/Kg)	0.221081
SAR 1g (W/Kg)	0.312176

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3897	0.3149	0.2406	0.1856	0.1405	0.1063	0.0799



3D screen shot	Hot spot position
	

MEASUREMENT 16

Type: Phone measurement (Complete)

Date of measurement: 23/8/2016

Measurement duration: 9 minutes 1 seconds

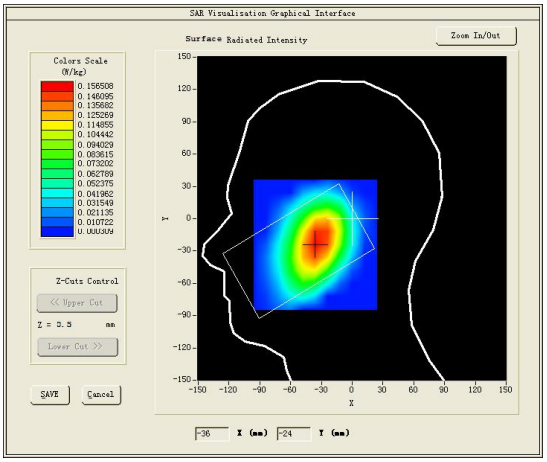
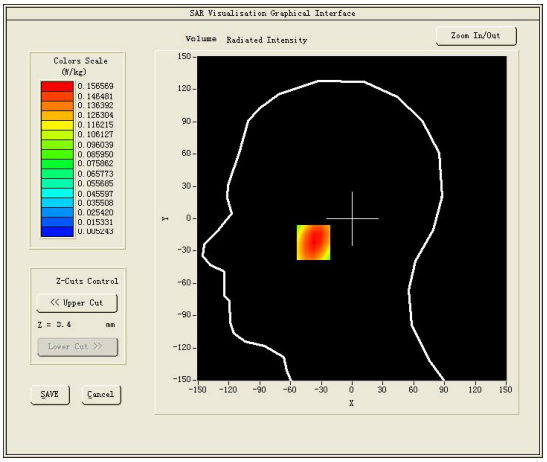
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Tilt
Band	Band5_WCDMA850
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)
Conversion factor	4.93

B. SAR Measurement Results

Middle Band SAR (Channel 4182):

Frequency (MHz)	836.400024
Relative permittivity (real part)	40.538380
Relative permittivity (imaginary part)	19.960159
Conductivity (S/m)	0.927482
Variation (%)	3.200000

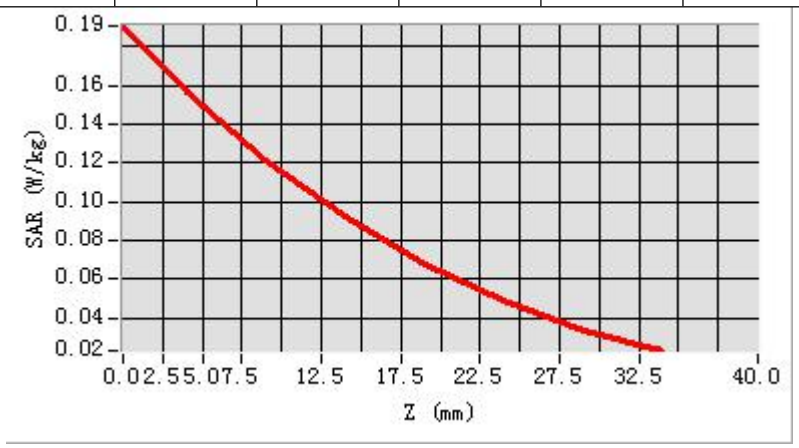
SURFACE SAR	VOLUME SAR
	

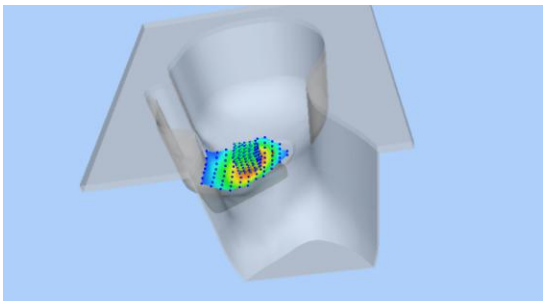
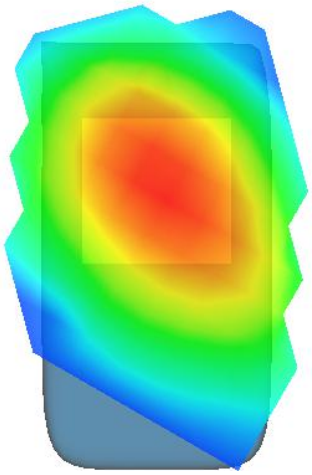
Maximum location: X=-34.00, Y=-22.00

SAR Peak: 0.19 W/kg

SAR 10g (W/Kg)	0.109999
SAR 1g (W/Kg)	0.155339

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1906	0.1566	0.1210	0.0925	0.0679	0.0487	0.0334



3D screen shot	Hot spot position
	

MEASUREMENT 17

Type: Phone measurement (Complete)

Date of measurement: 23/8/2016

Measurement duration: 9 minutes 49 seconds

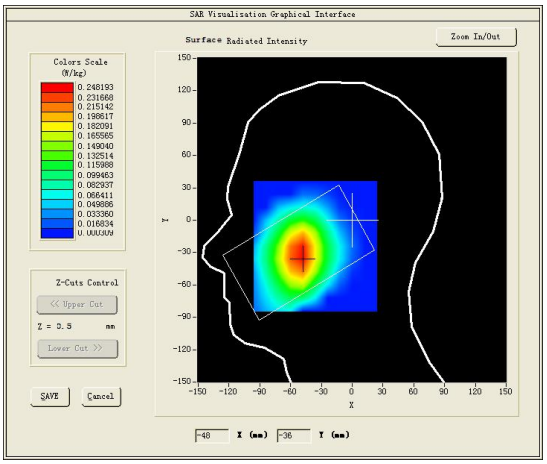
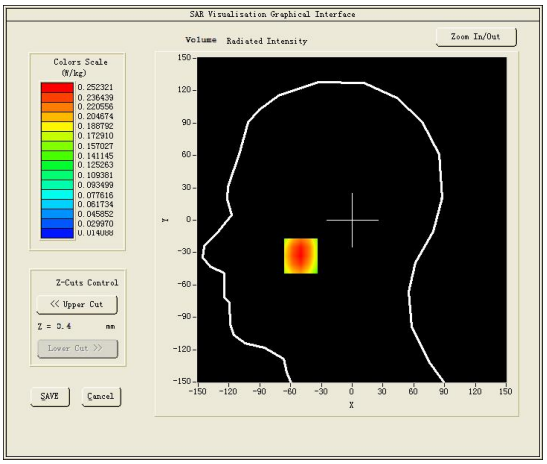
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Left head
Device Position	Cheek
Band	Band5_WCDMA850
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)
Conversion factor	4.93

B. SAR Measurement Results

Middle Band SAR (Channel 4182):

Frequency (MHz)	836.400024
Relative permittivity (real part)	40.538380
Relative permittivity (imaginary part)	19.960159
Conductivity (S/m)	0.927482
Variation (%)	-0.620000

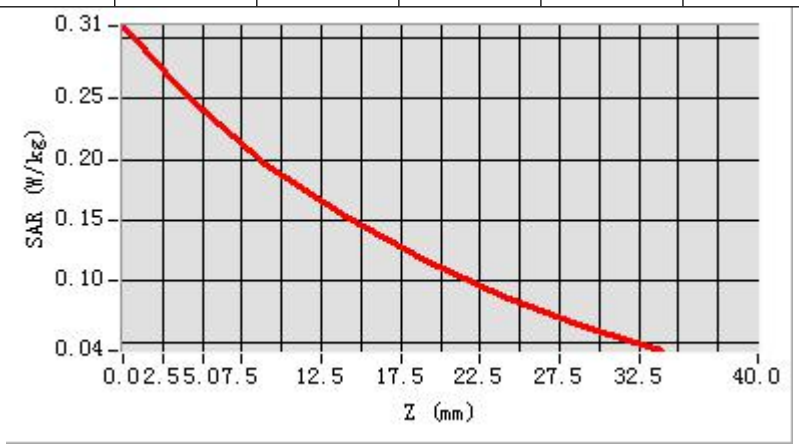
SURFACE SAR	VOLUME SAR
	

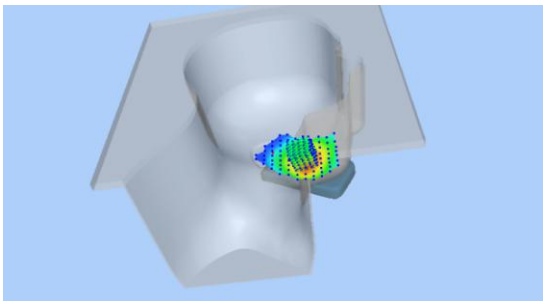
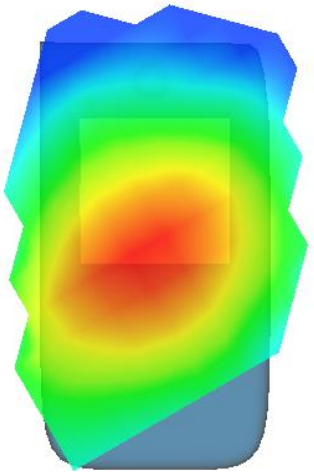
Maximum location: X=-50.00, Y=-33.00

SAR Peak: 0.31 W/kg

SAR 10g (W/Kg)	0.178341
SAR 1g (W/Kg)	0.249545

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3095	0.2523	0.1957	0.1530	0.1170	0.0873	0.0633



3D screen shot	Hot spot position
	

MEASUREMENT 18

Type: Phone measurement (Complete)

Date of measurement: 23/8/2016

Measurement duration: 10 minutes 1 seconds

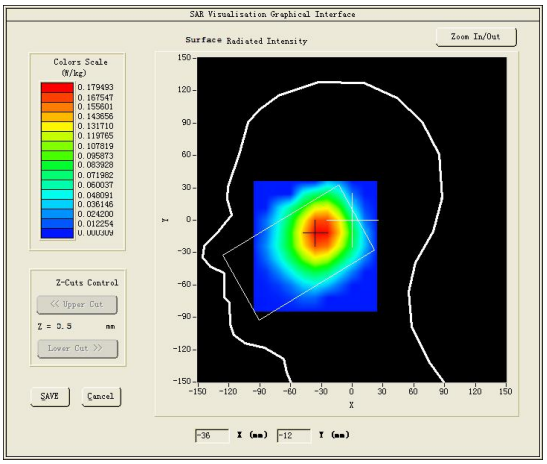
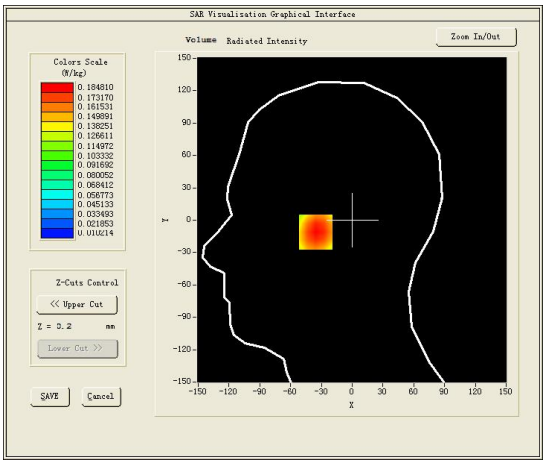
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Left head
Device Position	Tilt
Band	Band5_WCDMA850
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)
Conversion factor	4.93

B. SAR Measurement Results

Middle Band SAR (Channel 4182):

Frequency (MHz)	836.400024
Relative permittivity (real part)	40.538380
Relative permittivity (imaginary part)	19.960159
Conductivity (S/m)	0.927482
Variation (%)	1.020000

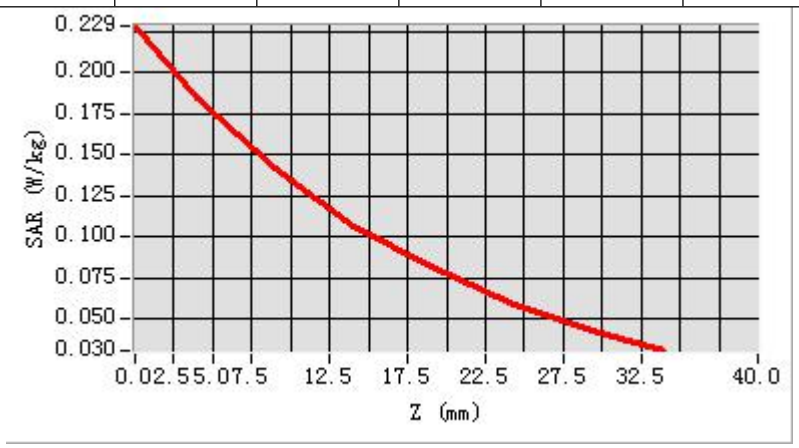
SURFACE SAR	VOLUME SAR
	

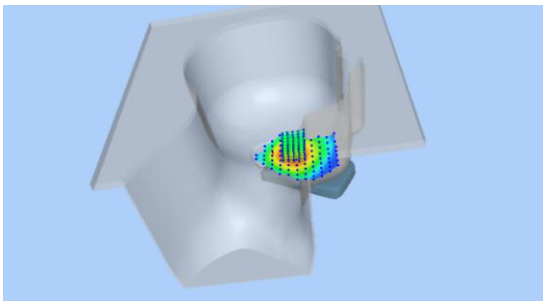
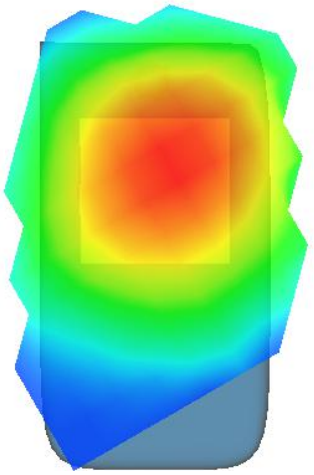
Maximum location: X=-32.00, Y=-11.00

SAR Peak: 0.23 W/kg

SAR 10g (W/Kg)	0.130485
SAR 1g (W/Kg)	0.182978

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2287	0.1848	0.1416	0.1069	0.0815	0.0604	0.0437



3D screen shot	Hot spot position
	

MEASUREMENT 19

Towards-ground-low

Type: Phone measurement (Complete)

Date of measurement: 23/8/2016

Measurement duration: 10 minutes 46 seconds

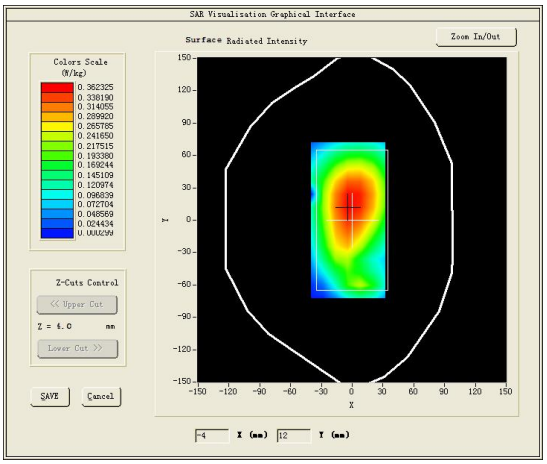
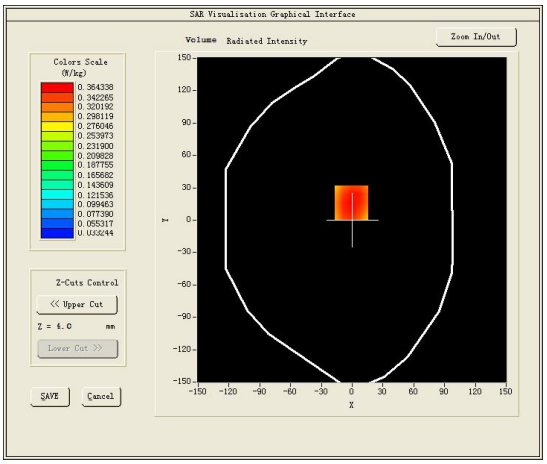
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	Band5_WCDMA850
Channels	Low
Signal	WCDMA (Crest factor: 1.0)
Conversion factor	5.07

B. SAR Measurement Results

Lower Band SAR (Channel 4132):

Frequency (MHz)	826.400024
Relative permittivity (real part)	53.664639
Relative permittivity (imaginary part)	21.685261
Conductivity (S/m)	0.995594
Variation (%)	-1.540000

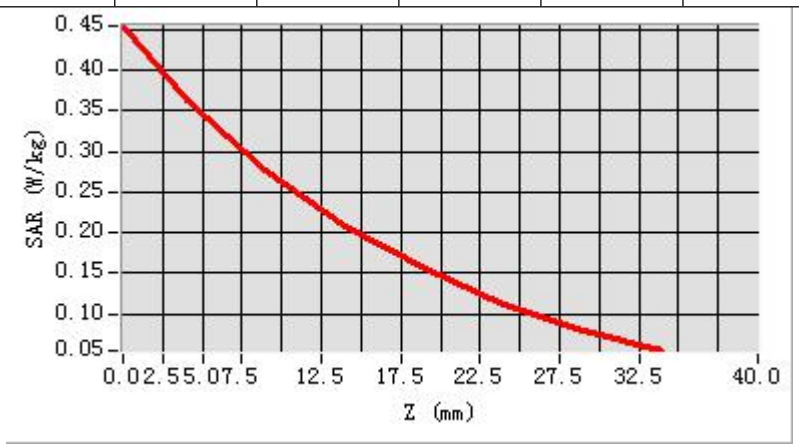
SURFACE SAR	VOLUME SAR
	

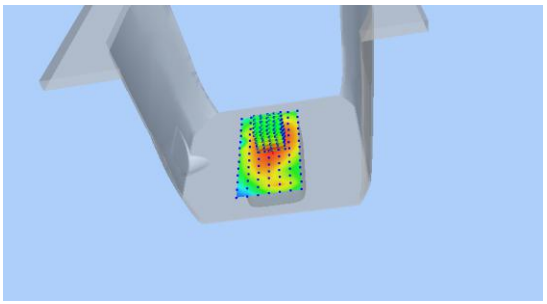
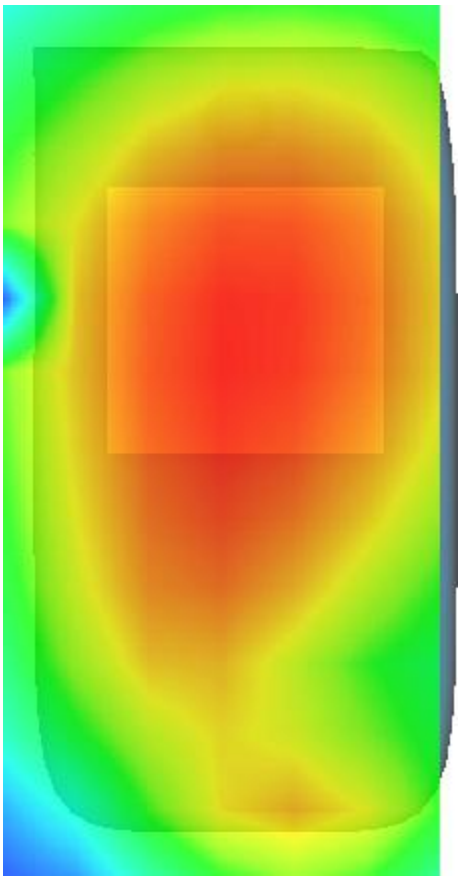
Maximum location: X=-1.00, Y=16.00

SAR Peak: 0.50 W/kg

SAR 10g (W/Kg)	0.283958
SAR 1g (W/Kg)	0.394388

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4550	0.3643	0.2758	0.2076	0.1553	0.1121	0.0796



3D screen shot	Hot spot position
	

MEASUREMENT 20

Towards-ground-middle

Type: Phone measurement (Complete)

Date of measurement: 23/8/2016

Measurement duration: 10 minutes 47 seconds

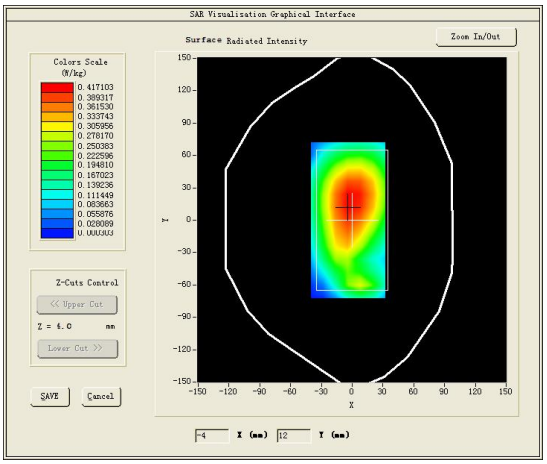
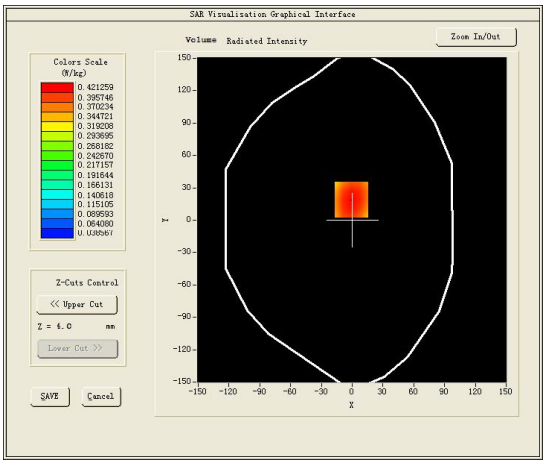
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	Band5_WCDMA850
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)
Conversion factor	5.07

B. SAR Measurement Results

Middle Band SAR (Channel 4182):

Frequency (MHz)	836.400024
Relative permittivity (real part)	53.394279
Relative permittivity (imaginary part)	21.684340
Conductivity (S/m)	1.007599
Variation (%)	1.090000

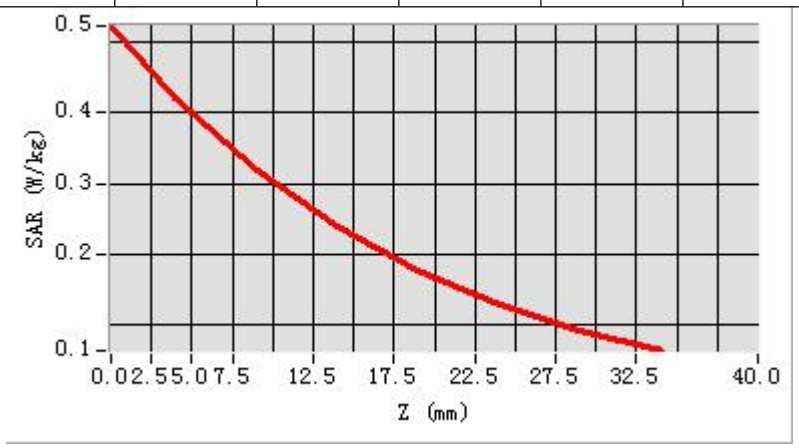
SURFACE SAR	VOLUME SAR
	

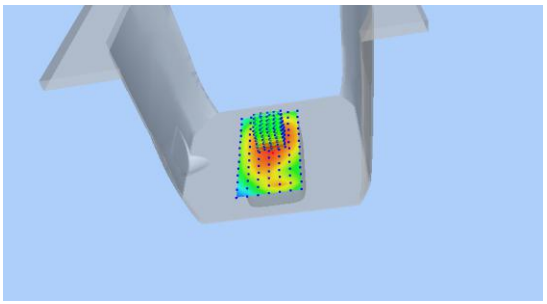
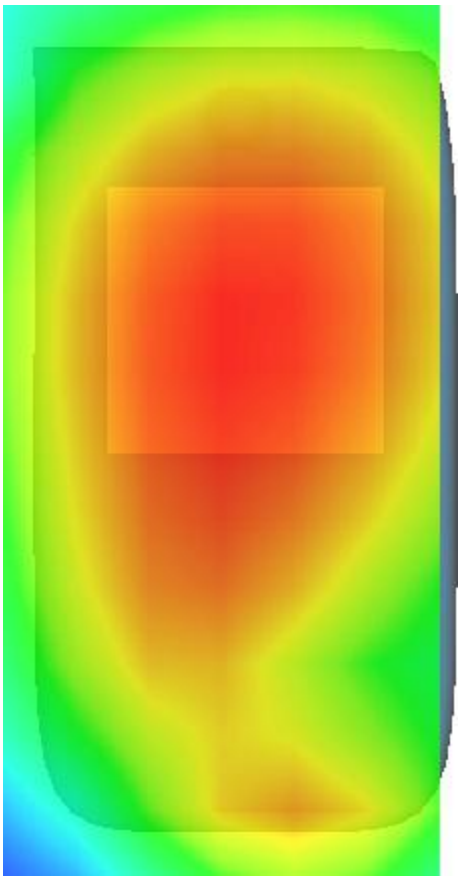
Maximum location: X=-1.00, Y=19.00

SAR Peak: 0.57 W/kg

SAR 10g (W/Kg)	0.329949
SAR 1g (W/Kg)	0.458152

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.5229	0.4213	0.3188	0.2392	0.1769	0.1291	0.0920



3D screen shot	Hot spot position
	

MEASUREMENT 21

Towards-phantom-middle

Type: Phone measurement (Complete)

Date of measurement: 23/8/2016

Measurement duration: 12 minutes 11 seconds

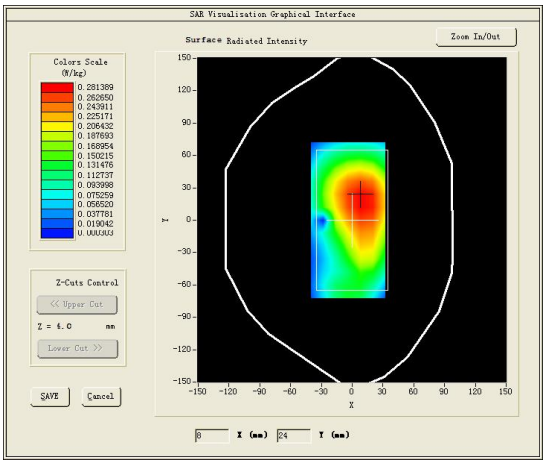
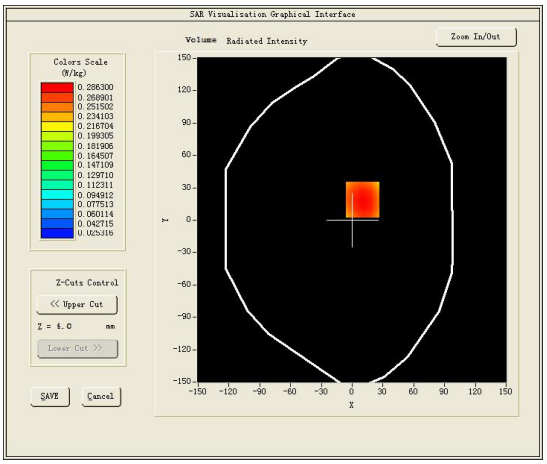
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	Band5_WCDMA850
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)
Conversion factor	5.07

B. SAR Measurement Results

Middle Band SAR (Channel 4182):

Frequency (MHz)	836.400024
Relative permittivity (real part)	53.394279
Relative permittivity (imaginary part)	21.684340
Conductivity (S/m)	1.007599
Variation (%)	1.430000

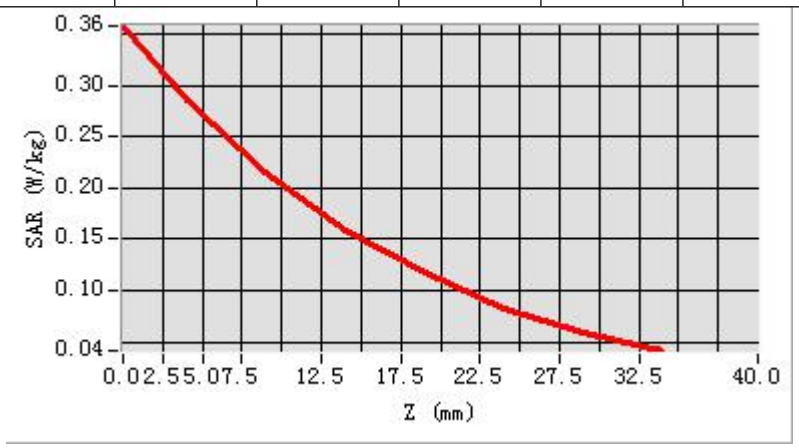
SURFACE SAR	VOLUME SAR
	

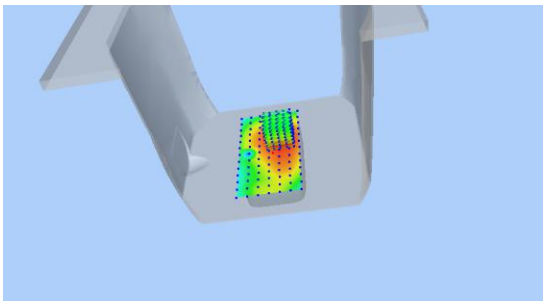
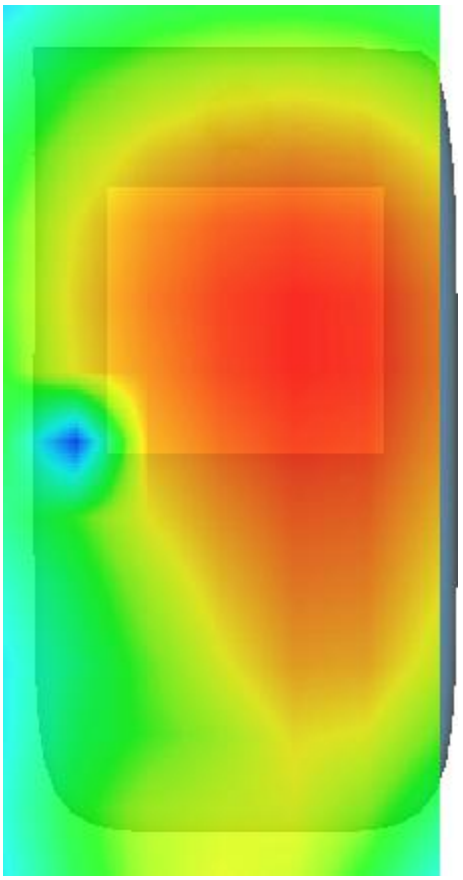
Maximum location: X=10.00, Y=19.00

SAR Peak: 0.40 W/kg

SAR 10g (W/Kg)	0.222493
SAR 1g (W/Kg)	0.312291

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3577	0.2863	0.2151	0.1593	0.1170	0.0831	0.0589



3D screen shot	Hot spot position
	

MEASUREMENT 22

Towards-ground-high

Type: Phone measurement (Complete)

Date of measurement: 23/8/2016

Measurement duration: 10 minutes 46 seconds

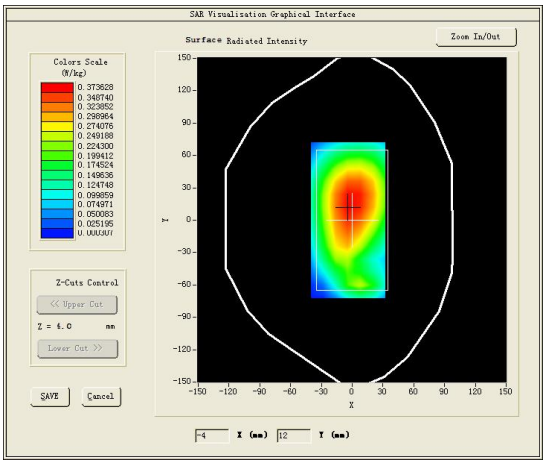
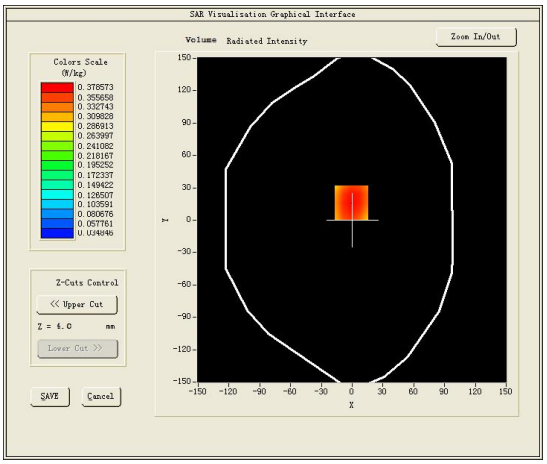
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	Band5_WCDMA850
Channels	High
Signal	WCDMA (Crest factor: 1.0)
Conversion factor	5.07

B. SAR Measurement Results

Higher Band SAR (Channel 4233):

Frequency (MHz)	846.599976
Relative permittivity (real part)	53.252720
Relative permittivity (imaginary part)	21.681881
Conductivity (S/m)	1.019771
Variation (%)	0.610000

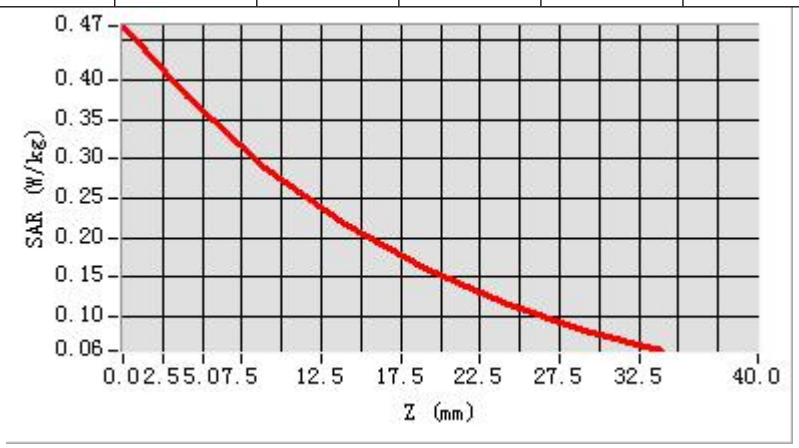
SURFACE SAR	VOLUME SAR
	

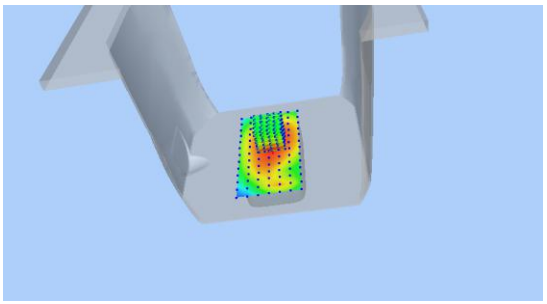
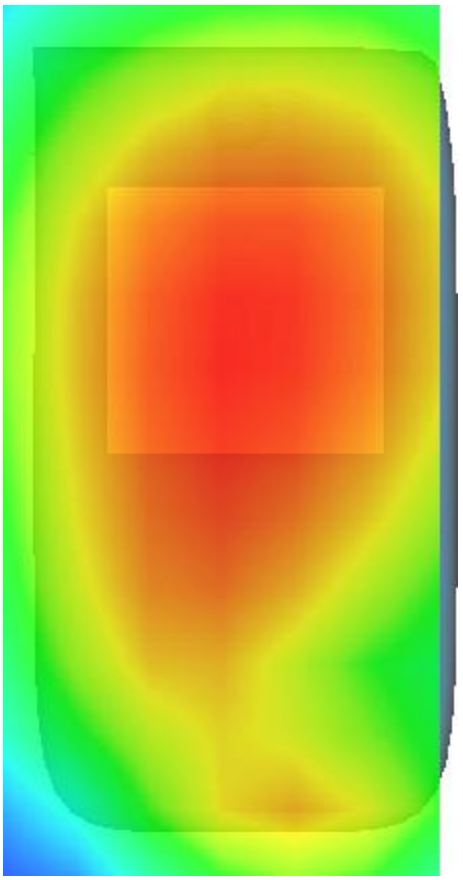
Maximum location: X=-1.00, Y=16.00

SAR Peak: 0.51 W/kg

SAR 10g (W/Kg)	0.295944
SAR 1g (W/Kg)	0.410178

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4682	0.3786	0.2876	0.2163	0.1602	0.1165	0.0828



3D screen shot	Hot spot position
	

MEASUREMENT 23

Type: Phone measurement (Complete)

Date of measurement: 22/8/2016

Measurement duration: 8 minutes 44 seconds

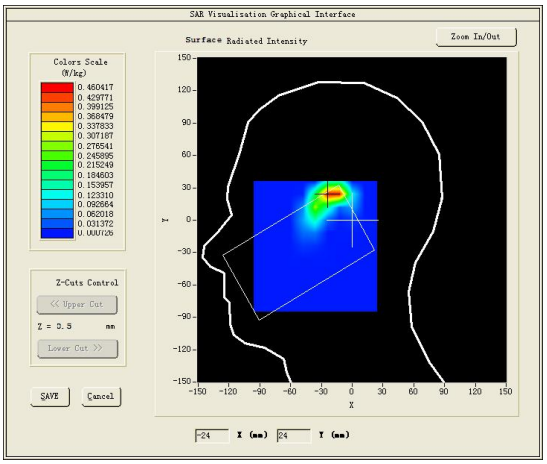
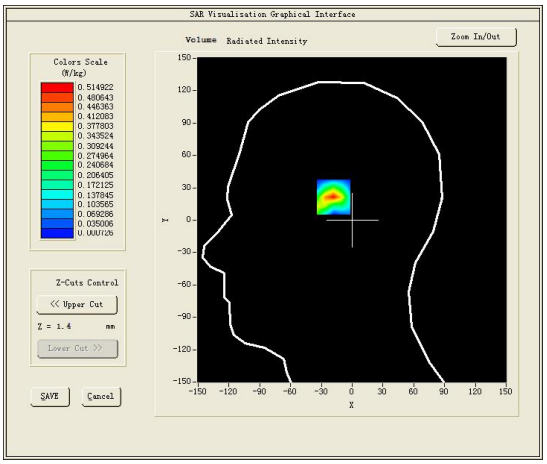
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	IEEE 802.11b ISM
Channels	Low
Signal	IEEE802.b (Crest factor: 1.0)
Conversion factor	4.00

B. SAR Measurement Results

Lower Band SAR (Channel 1):

Frequency (MHz)	2412.000000
Relative permittivity (real part)	39.499901
Relative permittivity (imaginary part)	13.038900
Conductivity (S/m)	1.747213
Variation (%)	-3.740000

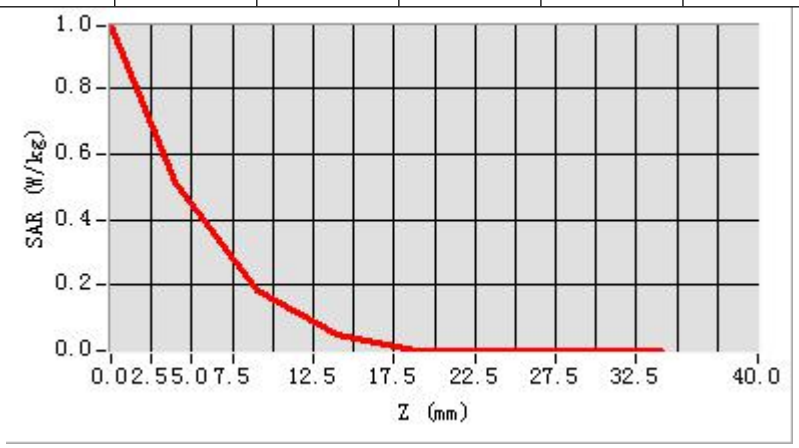
SURFACE SAR	VOLUME SAR
	

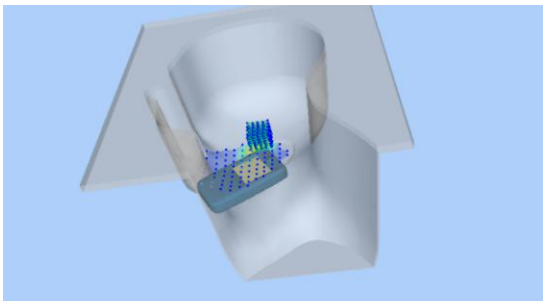
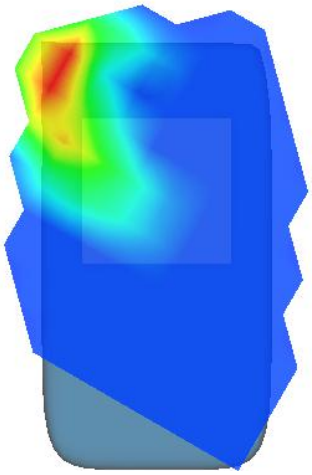
Maximum location: X=-17.00, Y=25.00

SAR Peak: 0.98 W/kg

SAR 10g (W/Kg)	0.163645
SAR 1g (W/Kg)	0.459044

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.9898	0.5149	0.1847	0.0491	0.0016	0.0007	0.0007



3D screen shot	Hot spot position
	

MEASUREMENT 24

Type: Phone measurement (Complete)

Date of measurement: 22/8/2016

Measurement duration: 8 minutes 41 seconds

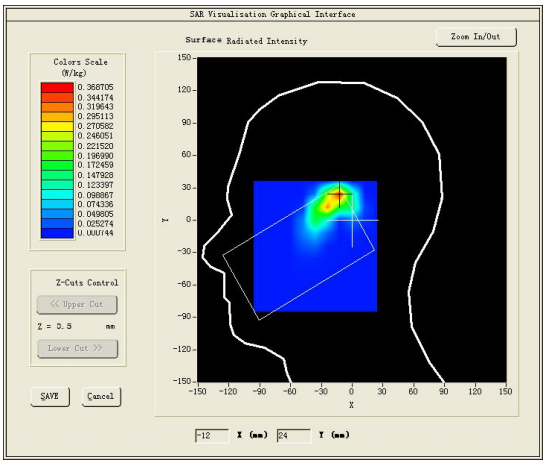
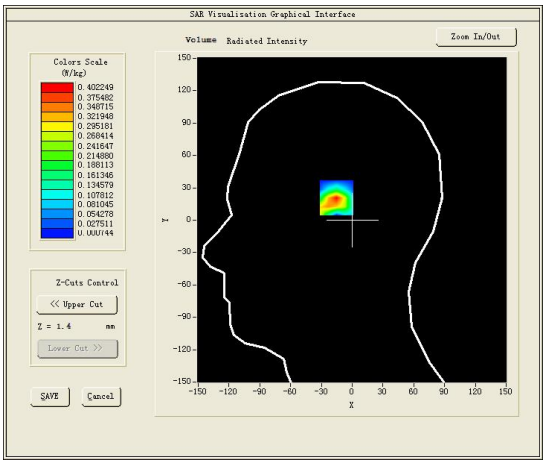
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	IEEE 802.11b ISM
Channels	Middle
Signal	IEEE802.b (Crest factor: 1.0)
Conversion factor	4.00

B. SAR Measurement Results

Middle Band SAR (Channel 6):

Frequency (MHz)	2437.000000
Relative permittivity (real part)	39.279701
Relative permittivity (imaginary part)	13.189900
Conductivity (S/m)	1.789430
Variation (%)	1.790000

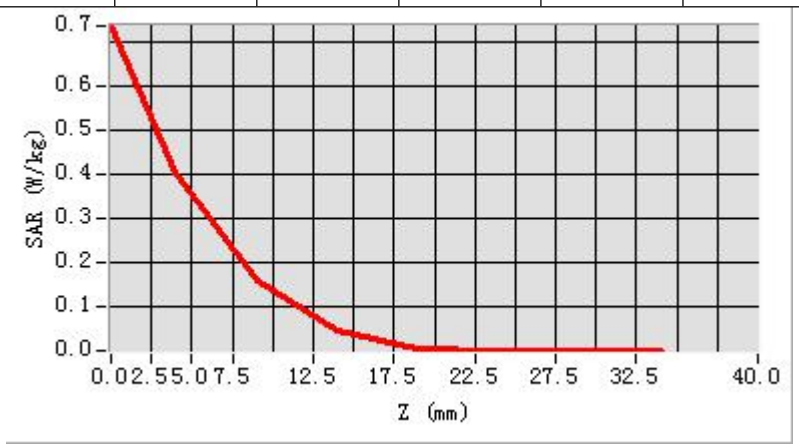
SURFACE SAR	VOLUME SAR
	

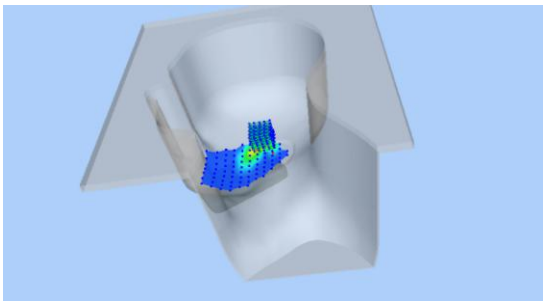
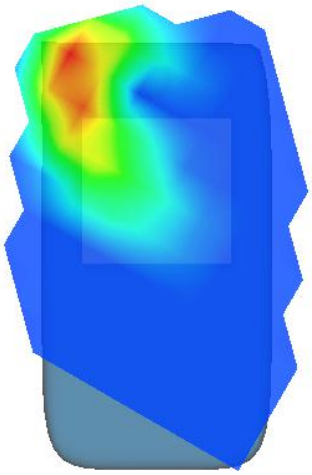
Maximum location: X=-13.00, Y=23.00

SAR Peak: 0.79 W/kg

SAR 10g (W/Kg)	0.138360
SAR 1g (W/Kg)	0.380166

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.7345	0.4022	0.1593	0.0457	0.0033	0.0007	0.0007



3D screen shot	Hot spot position
	

MEASUREMENT 25

Type: Phone measurement (Complete)

Date of measurement: 22/8/2016

Measurement duration: 9 minutes 3 seconds

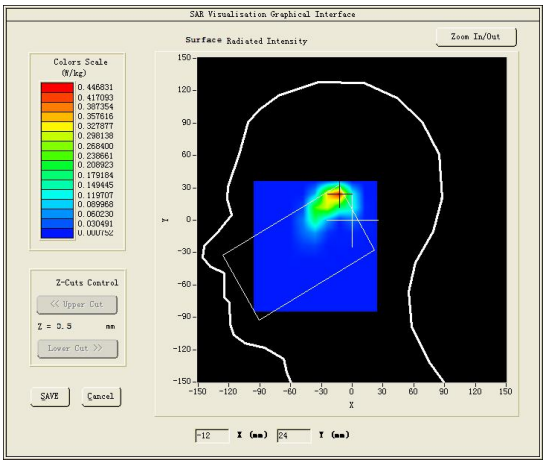
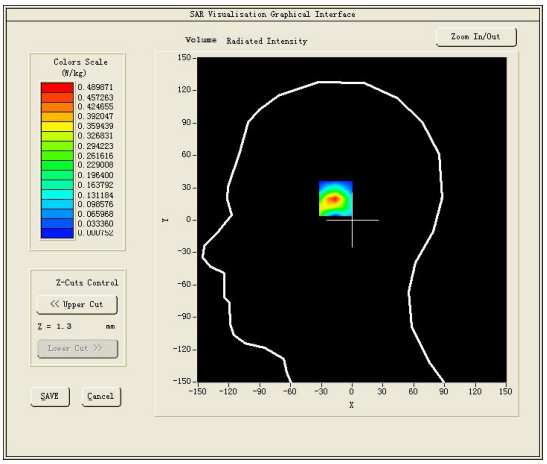
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	IEEE 802.11b ISM
Channels	High
Signal	IEEE802.b (Crest factor: 1.0)
Conversion factor	4.00

B. SAR Measurement Results

Higher Band SAR (Channel 11):

Frequency (MHz)	2462.000000
Relative permittivity (real part)	39.265701
Relative permittivity (imaginary part)	13.183100
Conductivity (S/m)	1.810479
Variation (%)	2.230000

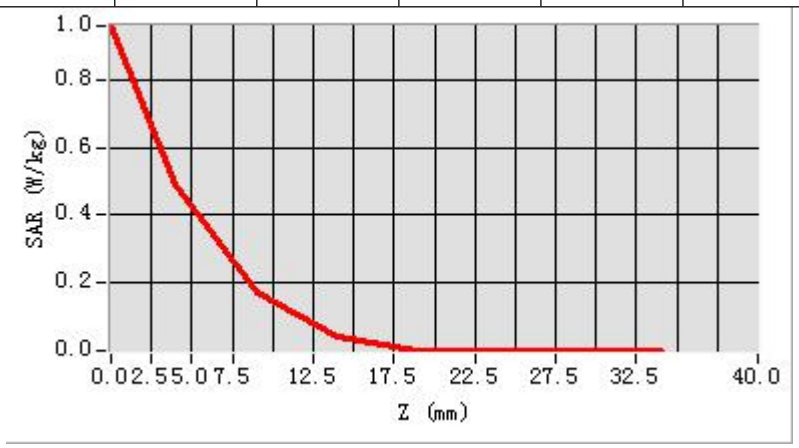
SURFACE SAR	VOLUME SAR
	

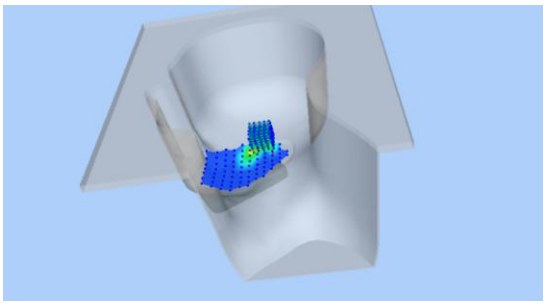
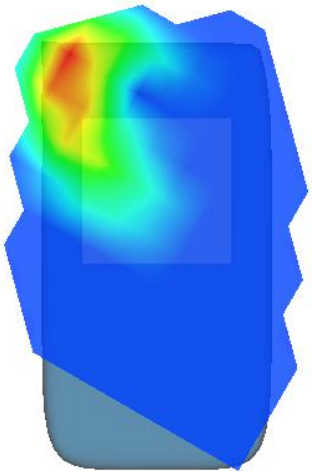
Maximum location: X=-14.00, Y=23.00

SAR Peak: 0.99 W/kg

SAR 10g (W/Kg)	0.158877
SAR 1g (W/Kg)	0.452429

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.9579	0.4899	0.1705	0.0436	0.0025	0.0008	0.0008



3D screen shot	Hot spot position
	

MEASUREMENT 26

Type: Phone measurement (Complete)

Date of measurement: 22/8/2016

Measurement duration: 8 minutes 37 seconds

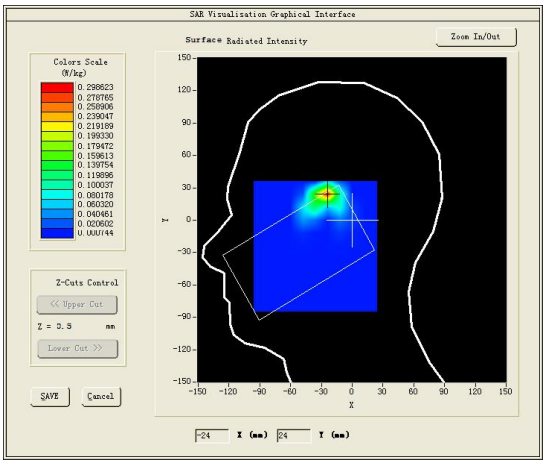
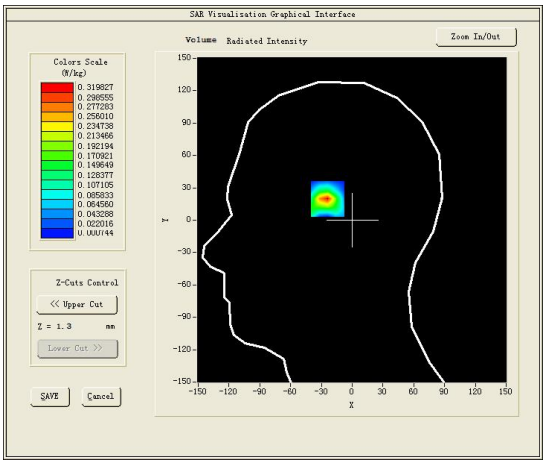
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Tilt
Band	IEEE 802.11b ISM
Channels	Middle
Signal	IEEE802.b (Crest factor: 1.0)
Conversion factor	4.00

B. SAR Measurement Results

Middle Band SAR (Channel 6):

Frequency (MHz)	2437.000000
Relative permittivity (real part)	39.279701
Relative permittivity (imaginary part)	13.189900
Conductivity (S/m)	1.789430
Variation (%)	0.120000

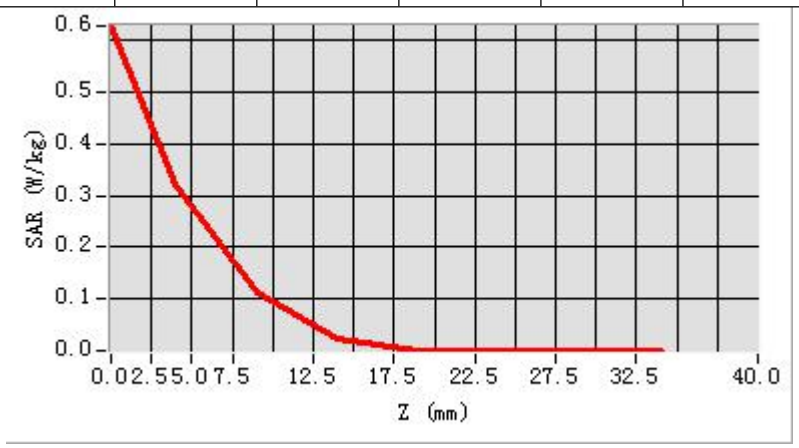
SURFACE SAR	VOLUME SAR
	

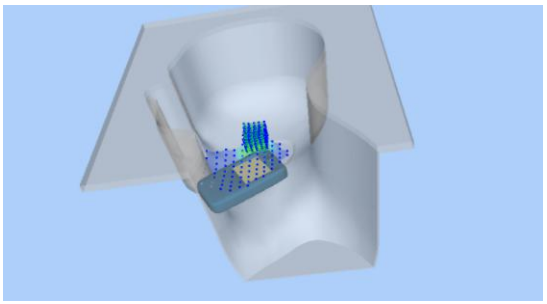
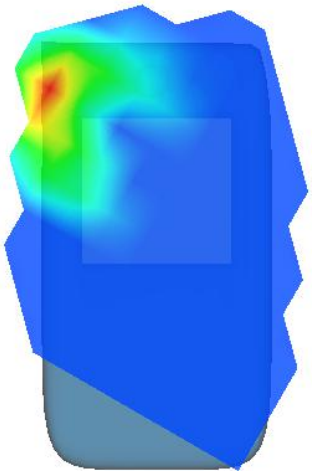
Maximum location: X=-24.00, Y=24.00

SAR Peak: 0.63 W/kg

SAR 10g (W/Kg)	0.097360
SAR 1g (W/Kg)	0.287561

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.6266	0.3198	0.1114	0.0250	0.0011	0.0007	0.0007



3D screen shot	Hot spot position
	

MEASUREMENT 27

Type: Phone measurement (Complete)

Date of measurement: 22/8/2016

Measurement duration: 8 minutes 54 seconds

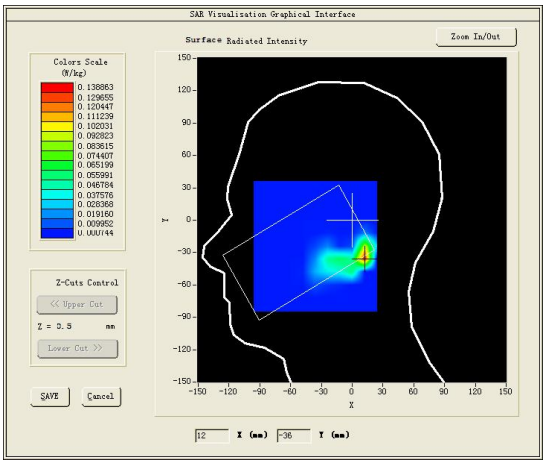
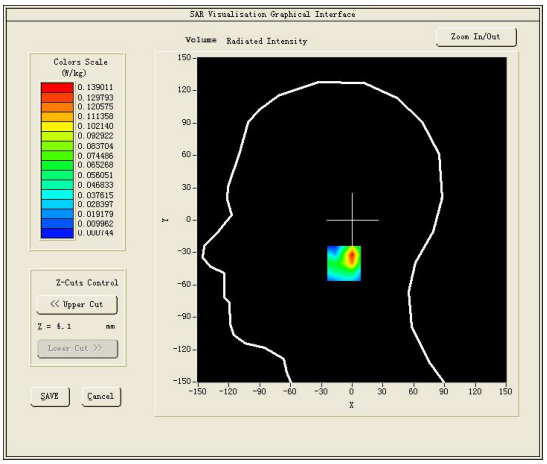
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Left head
Device Position	Cheek
Band	IEEE 802.11b ISM
Channels	Middle
Signal	IEEE802.b (Crest factor: 1.0)
Conversion factor	4.00

B. SAR Measurement Results

Middle Band SAR (Channel 6):

Frequency (MHz)	2437.000000
Relative permittivity (real part)	39.279701
Relative permittivity (imaginary part)	13.189900
Conductivity (S/m)	1.789430
Variation (%)	0.000000

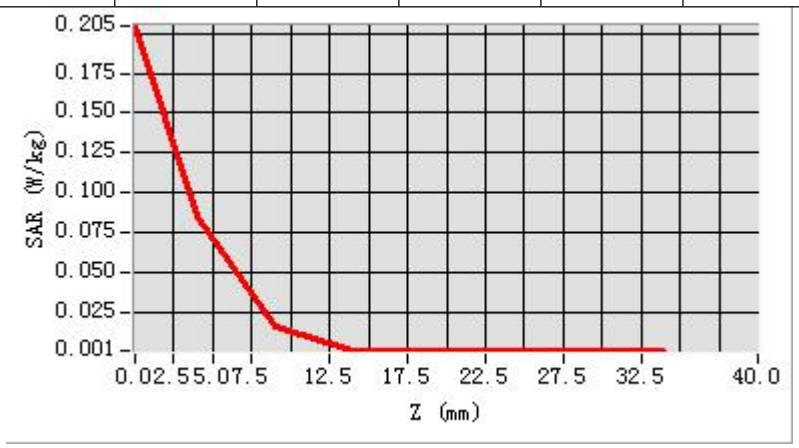
SURFACE SAR	VOLUME SAR
	

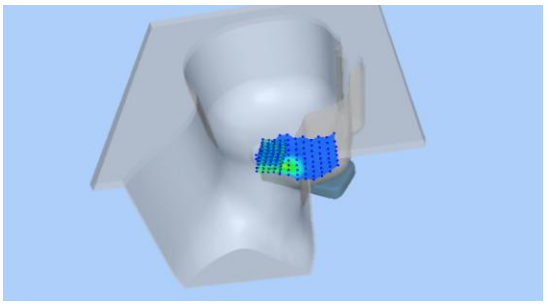
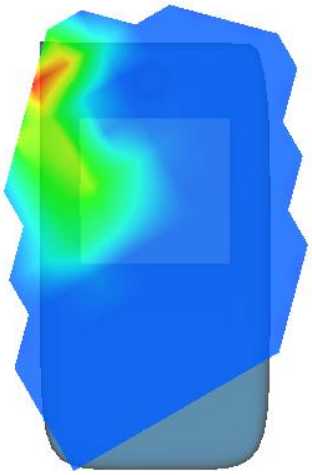
Maximum location: X=5.00, Y=-40.00

SAR Peak: 0.33 W/kg

SAR 10g (W/Kg)	0.041852
SAR 1g (W/Kg)	0.131563

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2048	0.0849	0.0158	0.0007	0.0007	0.0007	0.0007



3D screen shot	Hot spot position
	

MEASUREMENT 28

Type: Phone measurement (Complete)

Date of measurement: 22/8/2016

Measurement duration: 9 minutes 19 seconds

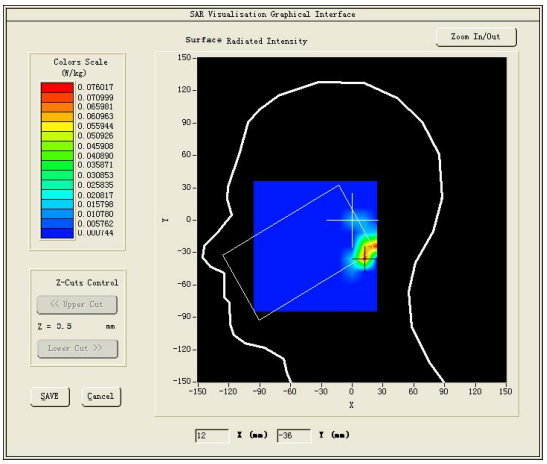
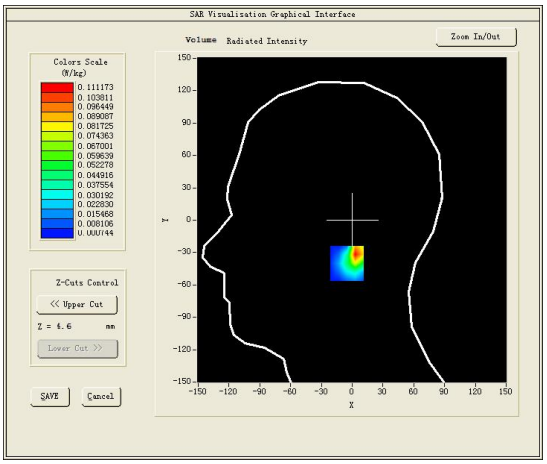
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Left head
Device Position	Tilt
Band	IEEE 802.11b ISM
Channels	Middle
Signal	IEEE802.b (Crest factor: 1.0)
Conversion factor	4.00

B. SAR Measurement Results

Middle Band SAR (Channel 6):

Frequency (MHz)	2437.000000
Relative permittivity (real part)	39.279701
Relative permittivity (imaginary part)	13.189900
Conductivity (S/m)	1.789430
Variation (%)	2.900000

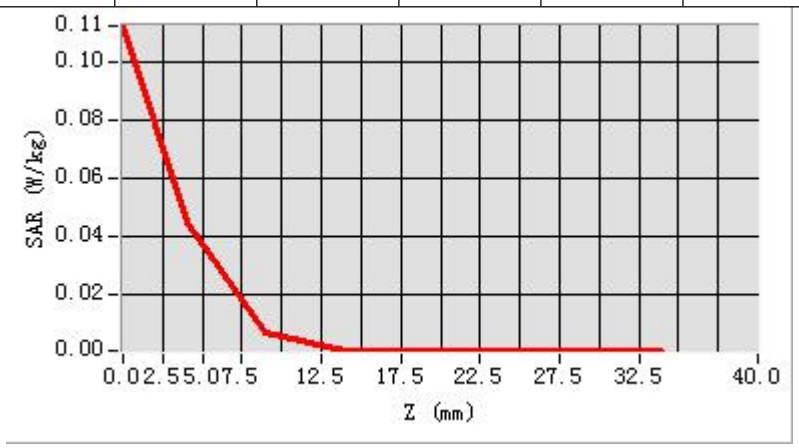
SURFACE SAR	VOLUME SAR
	

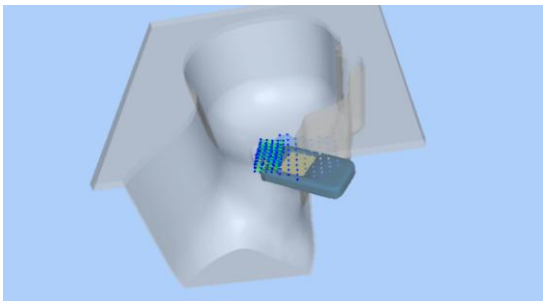
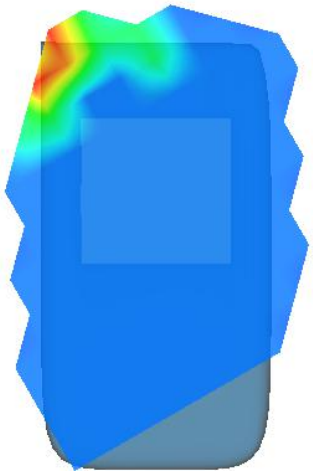
Maximum location: X=8.00, Y=-40.00

SAR Peak: 0.27 W/kg

SAR 10g (W/Kg)	0.032740
SAR 1g (W/Kg)	0.105960

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1122	0.0451	0.0071	0.0007	0.0007	0.0007	0.0007



3D screen shot	Hot spot position
	

MEASUREMENT 29

Towards Ground-low

Type: Phone measurement (Complete)

Date of measurement: 22/8/2016

Measurement duration: 8 minutes 37 seconds

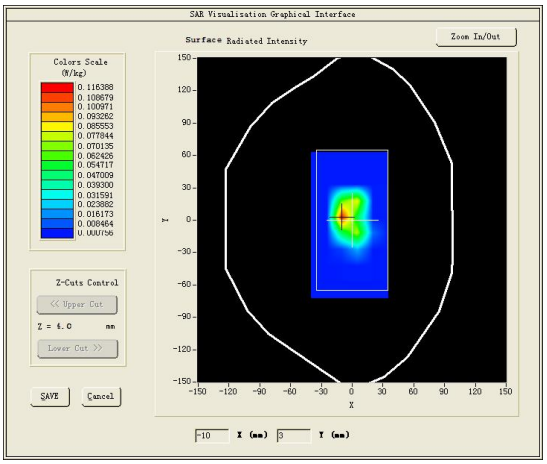
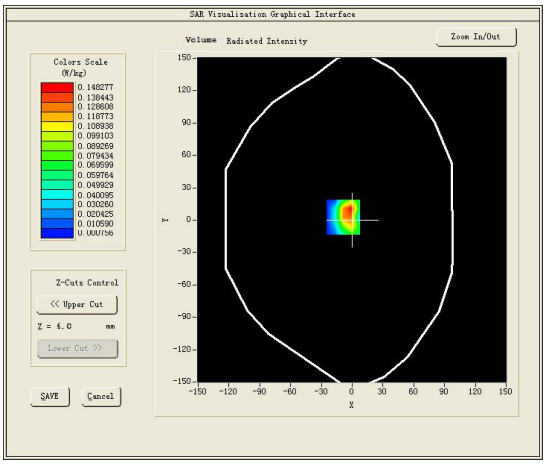
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11b ISM
Channels	Low
Signal	IEEE802.b (Crest factor: 1.0)
Conversion factor	4.11

B. SAR Measurement Results

Lower Band SAR (Channel 1):

Frequency (MHz)	2412.000000
Relative permittivity (real part)	51.257198
Relative permittivity (imaginary part)	14.393300
Conductivity (S/m)	1.928702
Variation (%)	0.740000

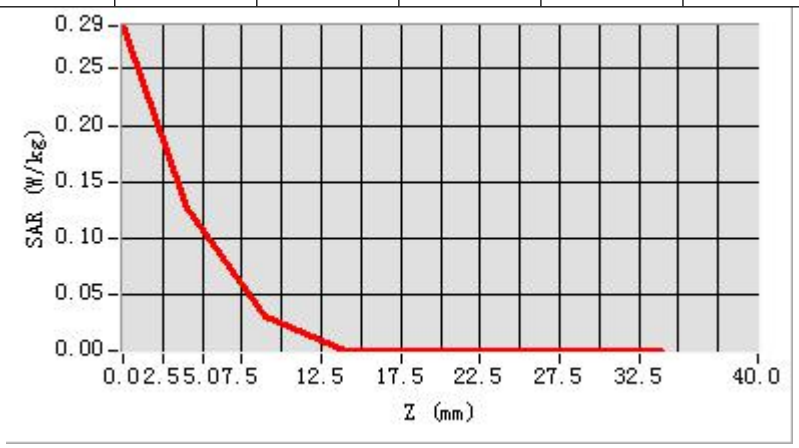
SURFACE SAR	VOLUME SAR
	

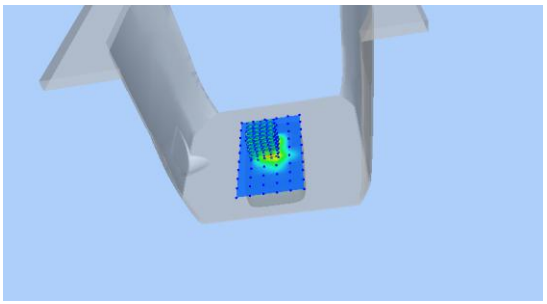
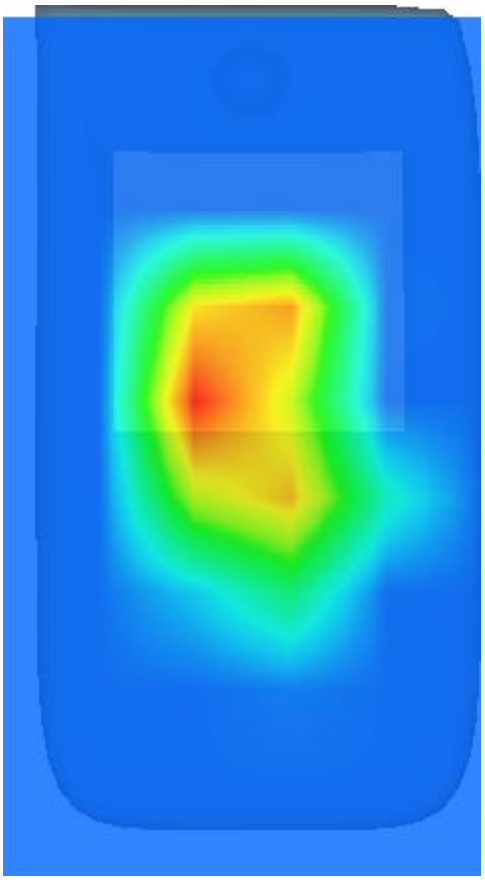
Maximum location: X=-9.00, Y=3.00

SAR Peak: 0.41 W/kg

SAR 10g (W/Kg)	0.054948
SAR 1g (W/Kg)	0.169390

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2878	0.1264	0.0302	0.0008	0.0008	0.0008	0.0008



3D screen shot	Hot spot position
	

MEASUREMENT 30

Towards-ground-middle

Type: Phone measurement (Complete)

Date of measurement: 22/8/2016

Measurement duration: 7 minutes 48 seconds

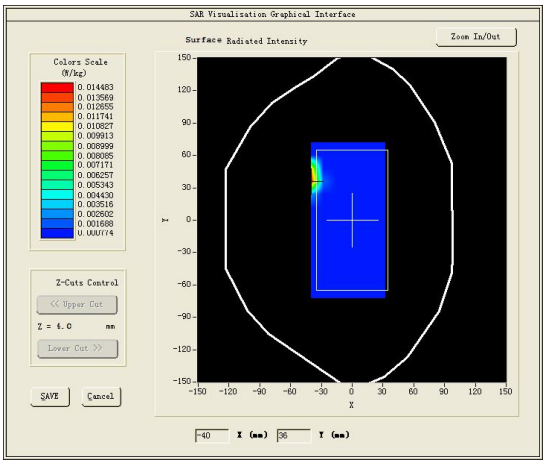
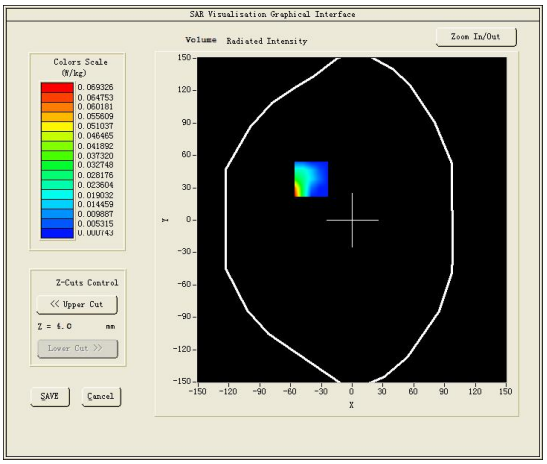
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11b ISM
Channels	Middle
Signal	IEEE802.b (Crest factor: 1.0)
Conversion factor	4.11

B. SAR Measurement Results

Middle Band SAR (Channel 6):

Frequency (MHz)	2437.000000
Relative permittivity (real part)	52.915798
Relative permittivity (imaginary part)	14.315100
Conductivity (S/m)	1.942082
Variation (%)	0.000000

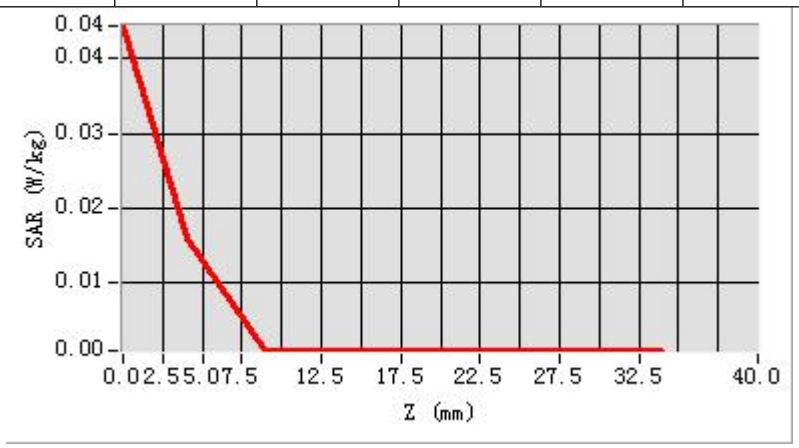
SURFACE SAR	VOLUME SAR
	

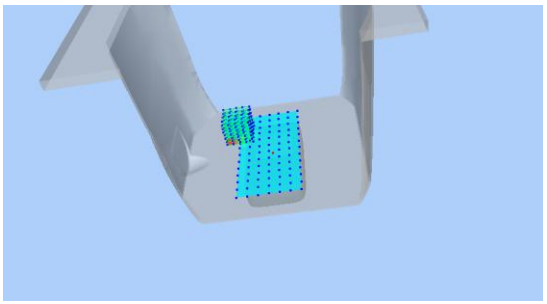
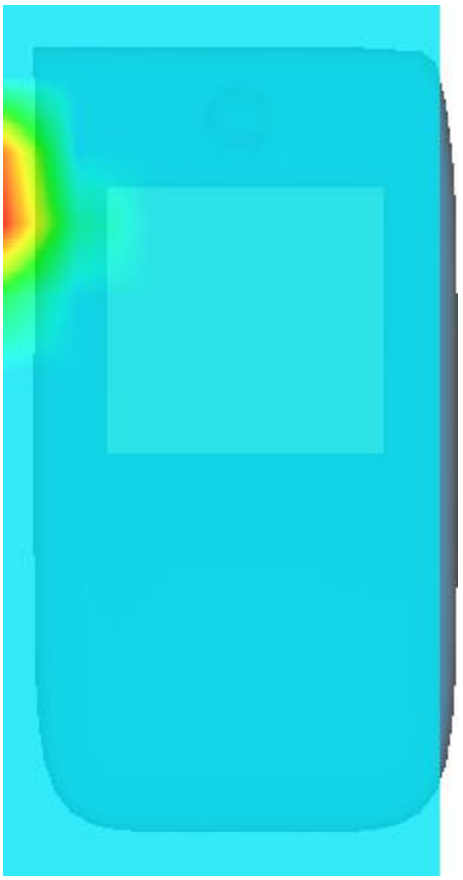
Maximum location: X=-40.00, Y=38.00

SAR Peak: 0.17 W/kg

SAR 10g (W/Kg)	0.013769
SAR 1g (W/Kg)	0.164226

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0444	0.0160	0.0008	0.0008	0.0008	0.0008	0.0008



3D screen shot	Hot spot position
	

MEASUREMENT 31

Towards Ground-middle

Type: Phone measurement (Complete)

Date of measurement: 22/8/2016

Measurement duration: 8 minutes 11 seconds

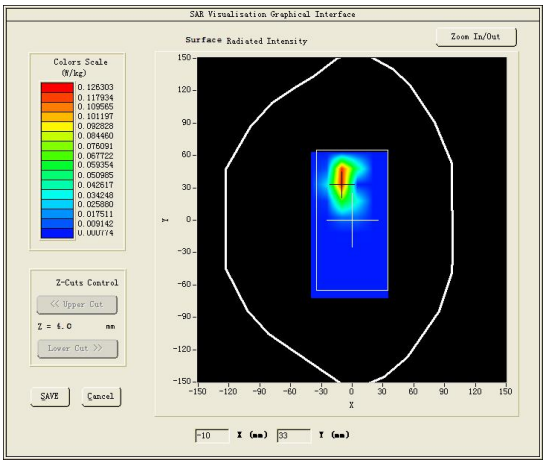
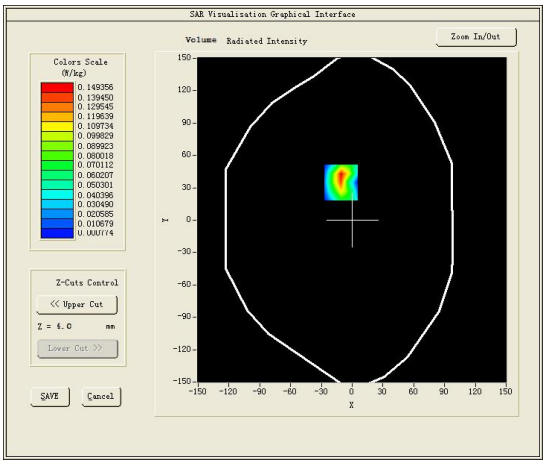
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11b ISM
Channels	Middle
Signal	IEEE802.b (Crest factor: 1.0)
Conversion factor	4.11

B. SAR Measurement Results

Middle Band SAR (Channel 6):

Frequency (MHz)	2437.000000
Relative permittivity (real part)	52.915798
Relative permittivity (imaginary part)	14.315100
Conductivity (S/m)	1.942082
Variation (%)	1.210000

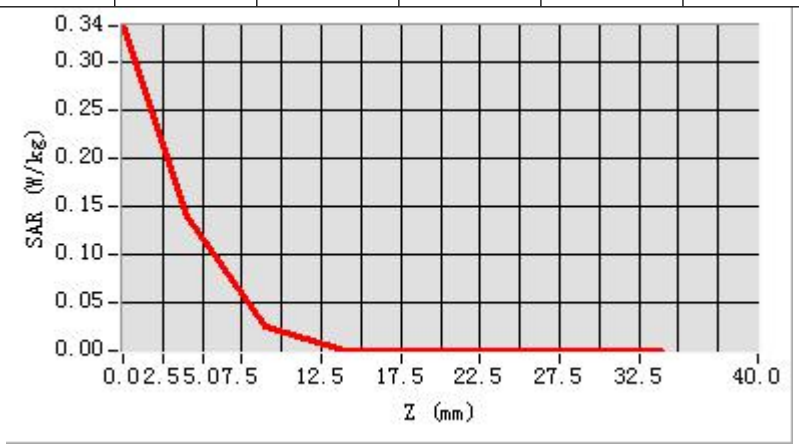
SURFACE SAR	VOLUME SAR
	

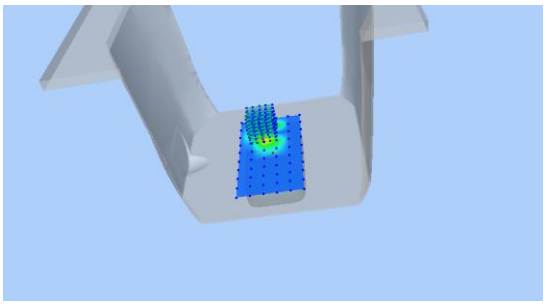
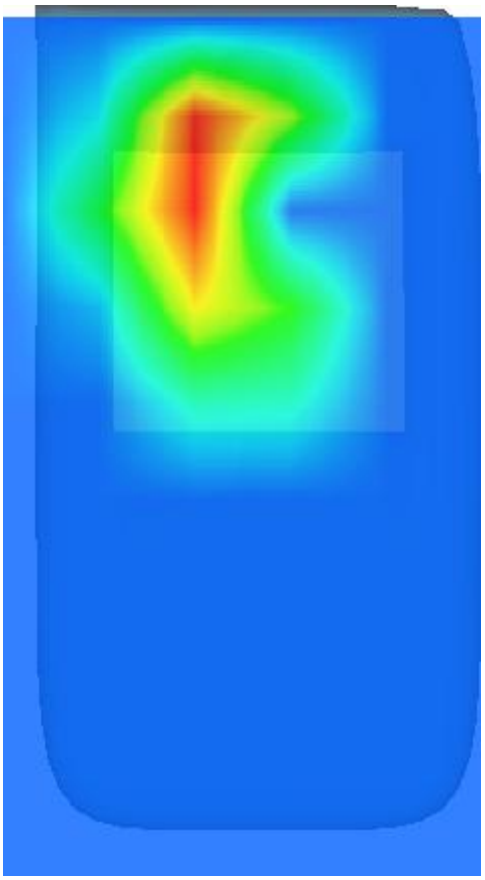
Maximum location: X=-11.00, Y=35.00

SAR Peak: 0.39 W/kg

SAR 10g (W/Kg)	0.050484
SAR 1g (W/Kg)	0.159280

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3368	0.1401	0.0264	0.0008	0.0008	0.0008	0.0008



3D screen shot	Hot spot position
	

MEASUREMENT 32

Towards-phantom-high

Type: Phone measurement (Complete)

Date of measurement: 22/8/2016

Measurement duration: 10 minutes 36 seconds

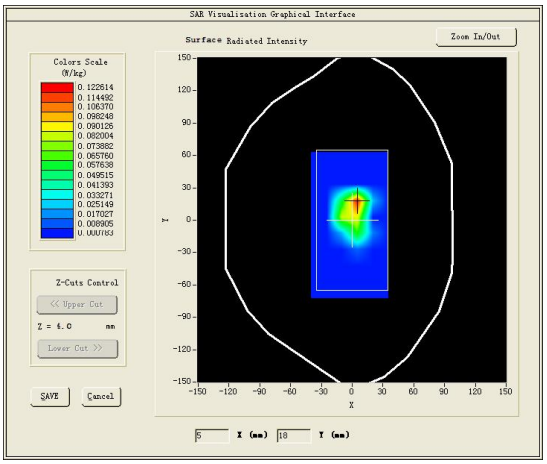
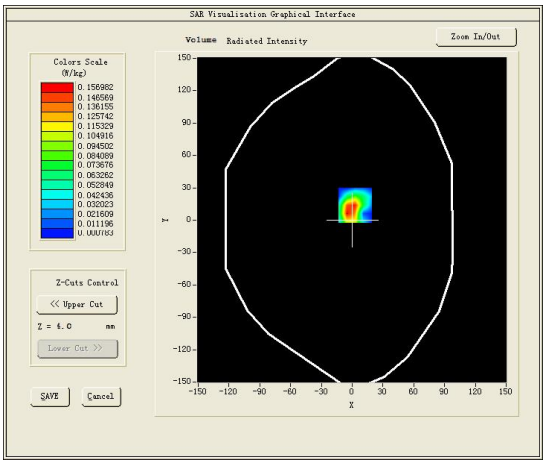
A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11b ISM
Channels	High
Signal	IEEE802.b (Crest factor: 1.0)
Conversion factor	4.11

B. SAR Measurement Results

Higher Band SAR (Channel 11):

Frequency (MHz)	2462.000000
Relative permittivity (real part)	55.097698
Relative permittivity (imaginary part)	12.224000
Conductivity (S/m)	1.678763
Variation (%)	4.800000

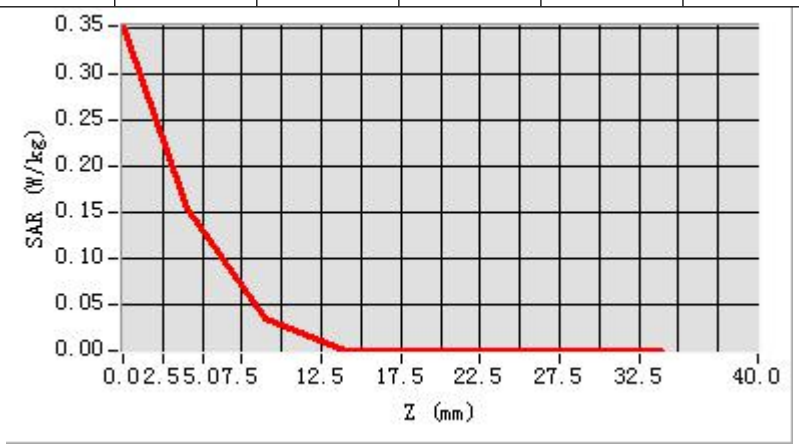
SURFACE SAR	VOLUME SAR
	

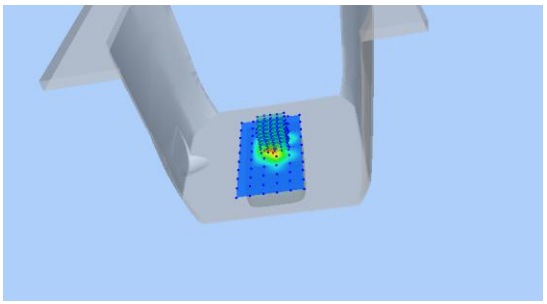
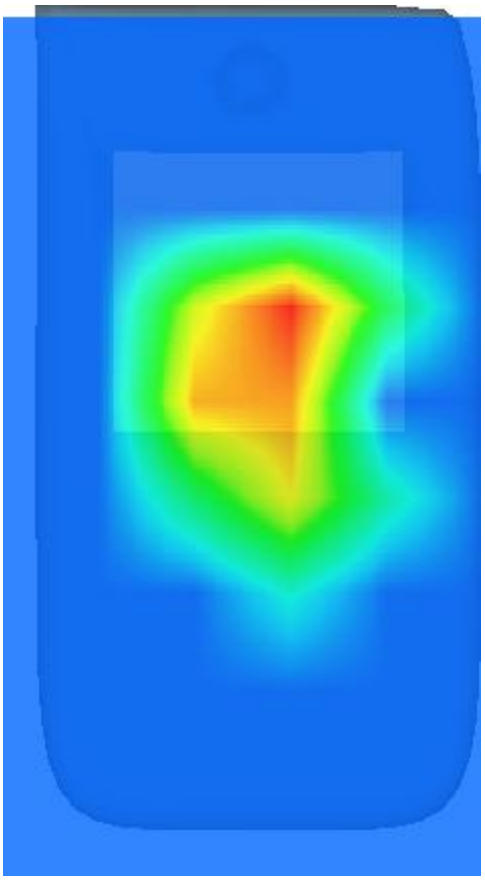
Maximum location: X=3.00, Y=14.00

SAR Peak: 0.39 W/kg

SAR 10g (W/Kg)	0.049851
SAR 1g (W/Kg)	0.158863

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3516	0.1535	0.0358	0.0008	0.0008	0.0008	0.0008



3D screen shot	Hot spot position
	

MEASUREMENT 33

Towards-ground-low

Type: Phone measurement (Complete)

Date of measurement: 23/8/2016

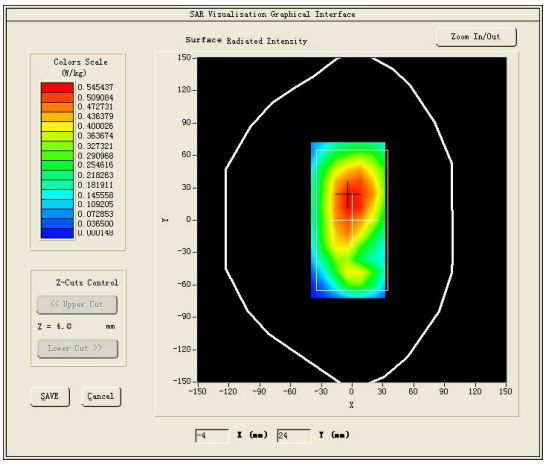
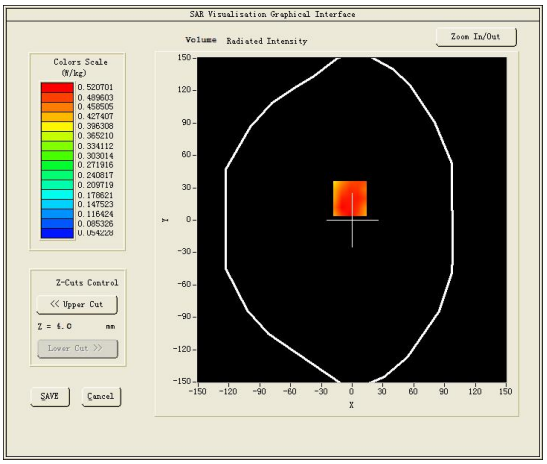
Measurement duration: 10 minutes 38 seconds

A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	CUSTOM (GPRS850_4Tx)
Channels	Low
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Conversion factor	5.07

B. SAR Measurement Results

Frequency (MHz)	824.200012
Relative permittivity (real part)	53.651520
Relative permittivity (imaginary part)	21.683880
Conductivity (S/m)	0.992881
Variation (%)	-1.580000

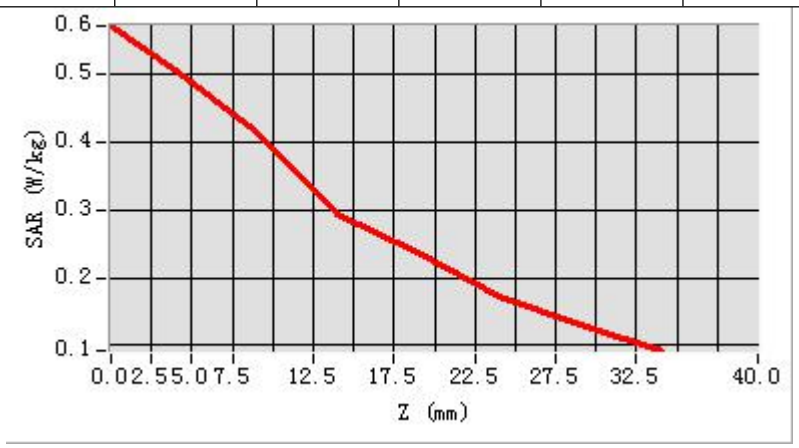
SURFACE SAR	VOLUME SAR
	

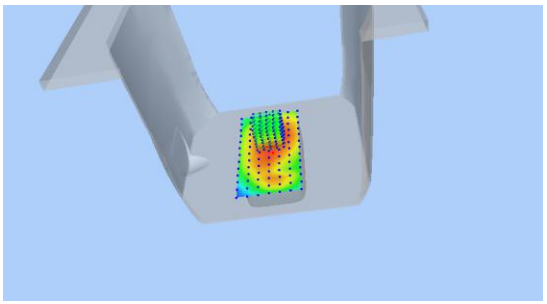
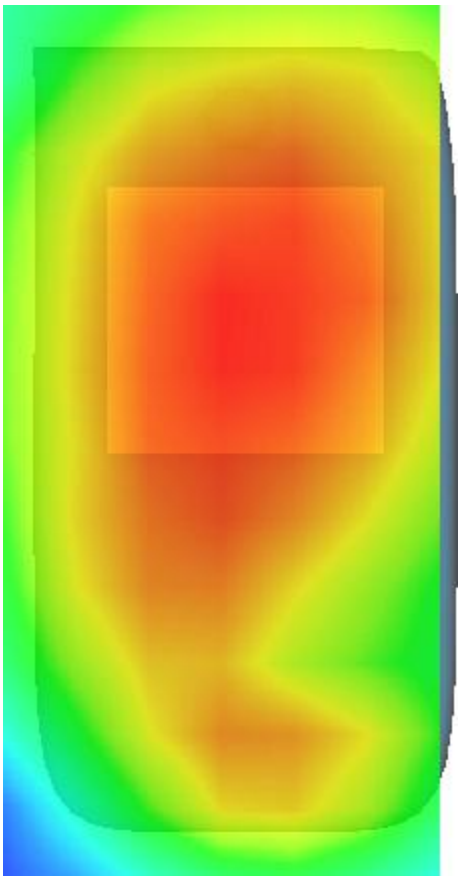
Maximum location: X=-2.00, Y=20.00

SAR Peak: 0.68 W/kg

SAR 10g (W/Kg)	0.378634
SAR 1g (W/Kg)	0.521302

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.5727	0.5084	0.4165	0.2938	0.2375	0.1704	0.1307



3D screen shot	Hot spot position
	

MEASUREMENT 34

Towards-ground-middle

Type: Phone measurement (Complete)

Date of measurement: 23/8/2016

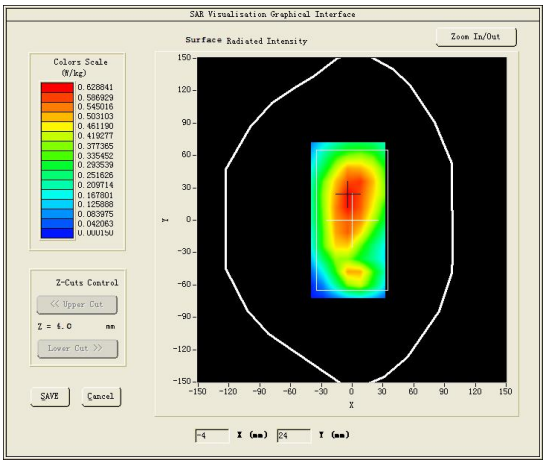
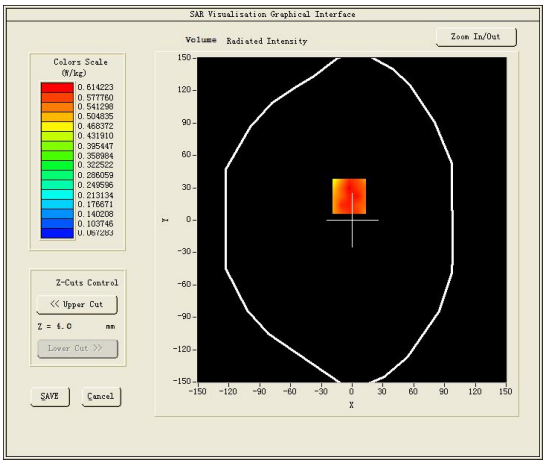
Measurement duration: 10 minutes 27 seconds

A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	CUSTOM (GPRS850_4Tx)
Channels	Middle
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Conversion factor	5.07

B. SAR Measurement Results

Frequency (MHz)	836.599976
Relative permittivity (real part)	53.395020
Relative permittivity (imaginary part)	21.690760
Conductivity (S/m)	1.008138
Variation (%)	3.180000

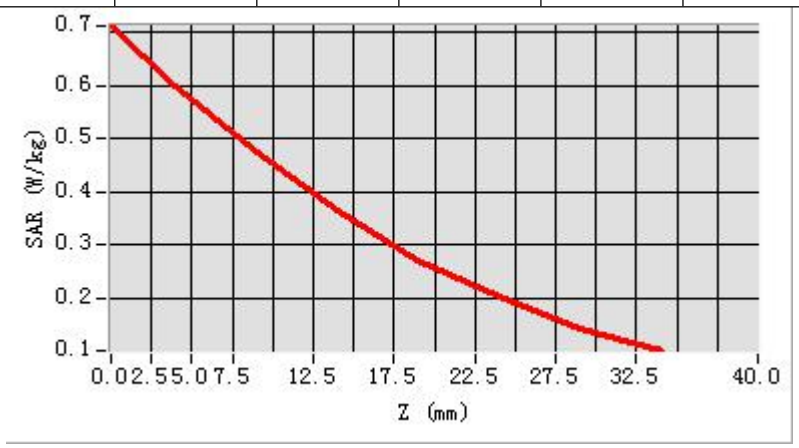
SURFACE SAR	VOLUME SAR
	

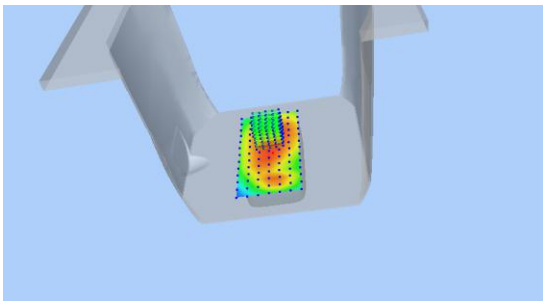
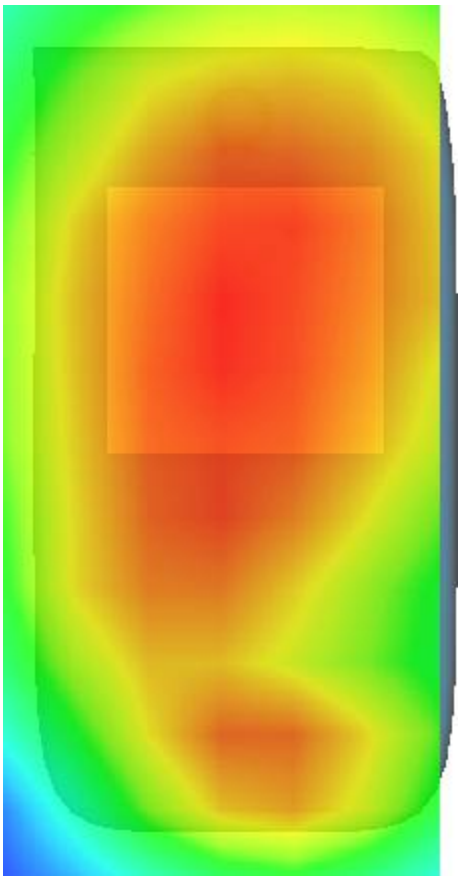
Maximum location: X=-3.00, Y=22.00

SAR Peak: 0.82 W/kg

SAR 10g (W/Kg)	0.445415
SAR 1g (W/Kg)	0.619435

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.7121	0.5990	0.4731	0.3639	0.2719	0.2010	0.1417



3D screen shot	Hot spot position
	

MEASUREMENT 35

Towards-phantom-middle

Type: Phone measurement (Complete)

Date of measurement: 23/8/2016

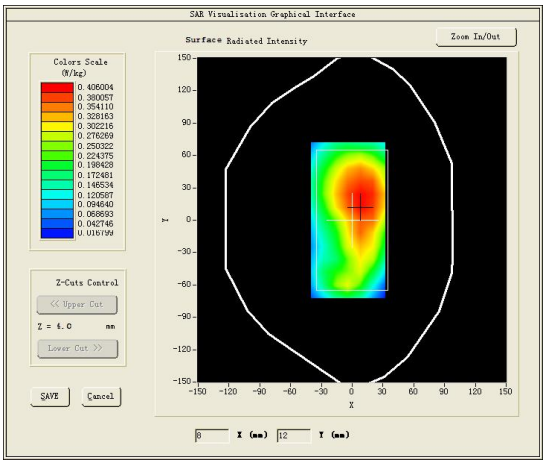
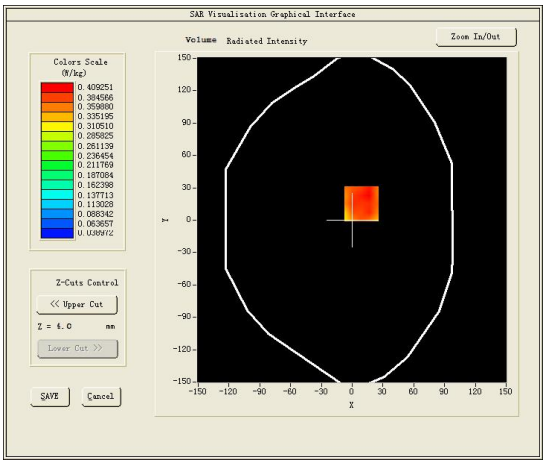
Measurement duration: 12 minutes 28 seconds

A. Experimental conditions.

Area Scan	dx=12mm dy=12mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	CUSTOM (GPRS850_4Tx)
Channels	Middle
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Conversion factor	5.07

B. SAR Measurement Results

Frequency (MHz)	836.599976
Relative permittivity (real part)	53.395020
Relative permittivity (imaginary part)	21.690760
Conductivity (S/m)	1.008138
Variation (%)	-1.850000

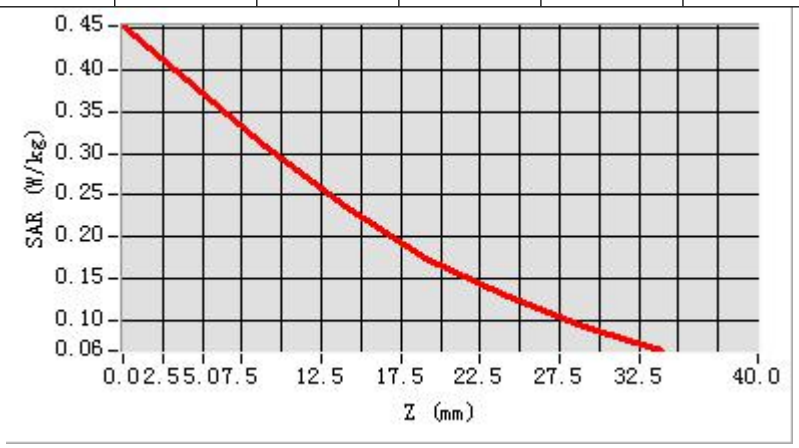
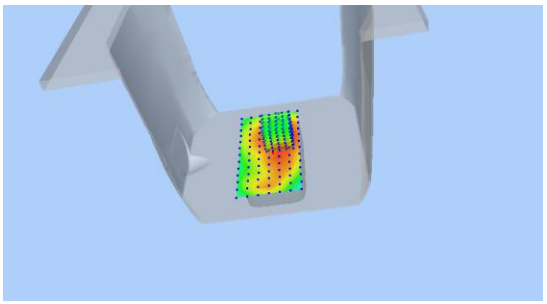
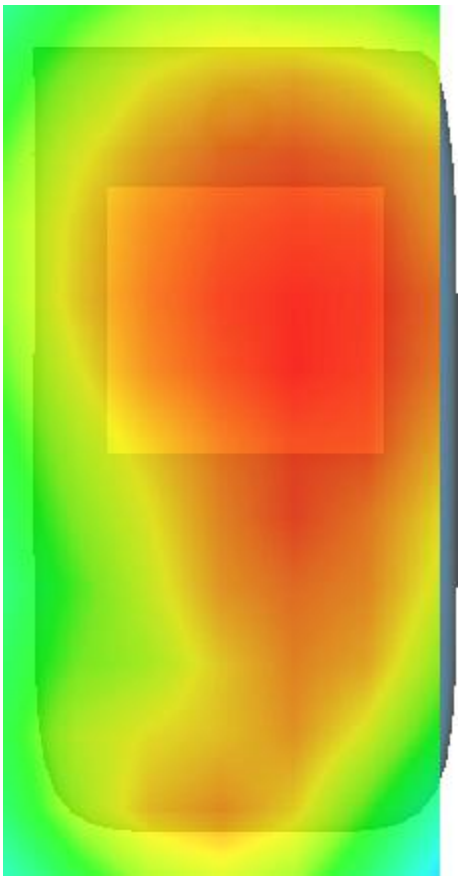
SURFACE SAR	VOLUME SAR
	

Maximum location: X=9.00, Y=15.00

SAR Peak: 0.55 W/kg

SAR 10g (W/Kg)	0.292323
SAR 1g (W/Kg)	0.408285

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4529	0.3877	0.3079	0.2353	0.1739	0.1315	0.0922



3D screen shot	Hot spot position