

ANNEX B

of

CCIC-SET

CONFORMANCE TEST REPORT FOR

HUMAN EXPOSURE TO ELECTROMAGNETIC FIELDS

SET2016-17041

LTE/WCDMA/GSM(GPRS) Multi-Mode Ufi

Type Name: MF910L

Hardware Version: xw9B_P1

Software Version: PCW_GENZTEV1.0.0B01

System Performance Check Data and Highest SAR Plots

This Annex consists of 14 pages

Date of Report: 2016-09-26

System Performance Check (Body, 750MHz)

Type: Validation measurement

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

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

Date of measurement:05/09/2016

Measurement duration: 21 minutes 26 seconds

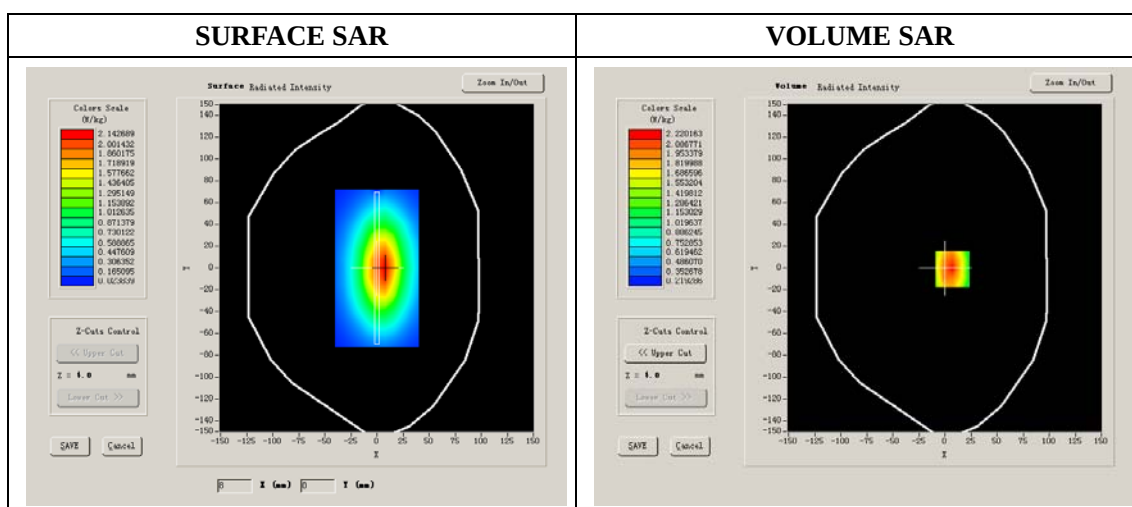
A. Experimental conditions.

Phantom File	dx=8mm dy=8mm
Phantom	5x5x7,dx=8mm dy=8mm dz=5mm
Device Position	
Band	750MHz
Channels	
Signal	CW

B. SAR Measurement Results

Band SAR

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	750
Relative permittivity (real part)	55.01
Relative permittivity	22.80
Conductivity (S/m)	0.95
Power drift (%)	1.54
Ambient Temperature:	23.2°C
Liquid Temperature:	23.5°C
ConvF:	6.13
Duty factor:	1:1



Maximum location: X=6.00, Y=-1.00

SAR 10g (W/Kg)	1.151837
SAR 1g (W/Kg)	2.043572

System Performance Check (Body, 835MHz)

Type: Validation measurement

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

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

Date of measurement: 05/09/2016

Measurement duration: 21 minutes 14seconds

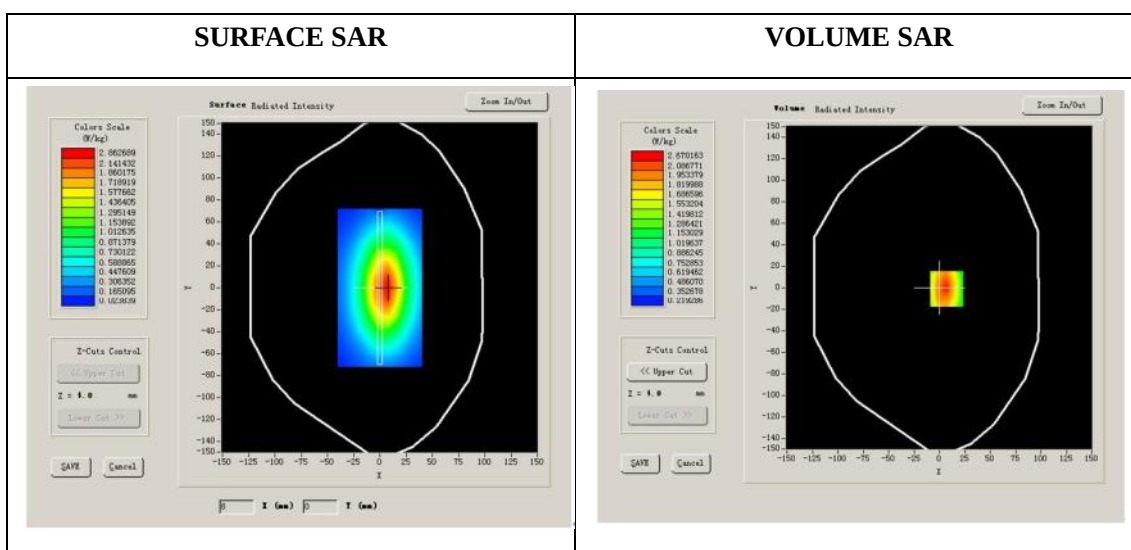
A. Experimental conditions.

Phantom File	dx=8mm dy=8mm
Phantom	5x5x7,dx=8mm dy=8mm dz=5mm
Device Position	Dipole
Band	835MHz
Channels	
Signal	CW

B. SAR Measurement Results

Band SAR

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	850
Relative permittivity (real part)	55.08
Relative permittivity	20.54
Conductivity (S/m)	0.97
Power drift (%)	1.24
Ambient Temperature:	22.2°C
Liquid Temperature:	22.5°C
ConvF:	7.07
Duty factor:	1:1



Maximum location: X=7.00, Y=-1.00

SAR 10g (W/Kg)	1.635247
SAR 1g (W/Kg)	2.523584

System Performance Check (Body, 1900MHz)

Type: Validation measurement

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

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

Date of measurement: 07/09/2016

Measurement duration: 21 minutes 48 seconds

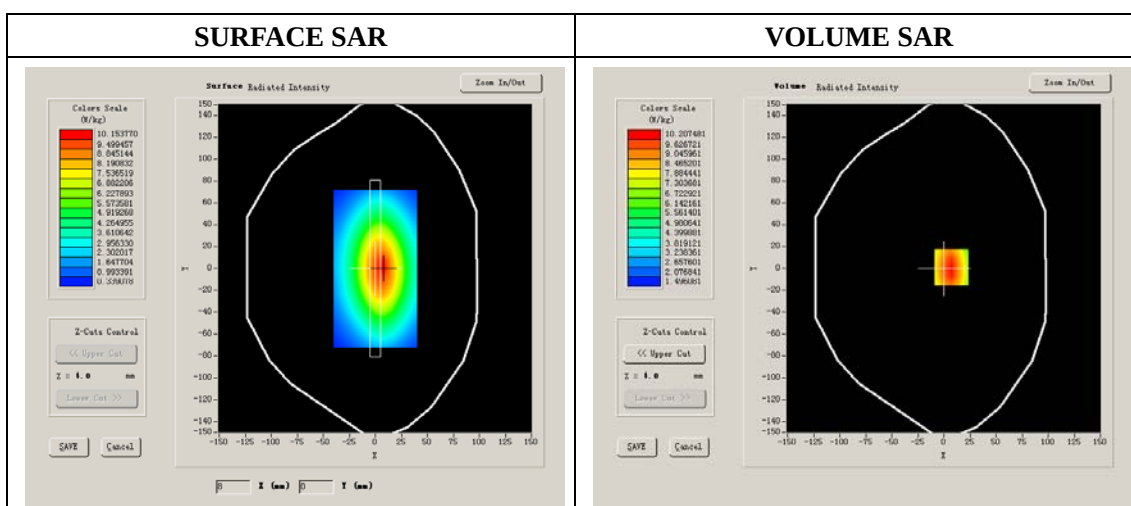
A. Experimental conditions.

Phantom File	dx=8mm dy=8mm
Phantom	5x5x7,dx=8mm dy=8mm dz=5mm
Device Position	Dipole
Band	1900MHz
Channels	
Signal	CW

B. SAR Measurement Results

Band SAR

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	1900
Relative permittivity (real part)	53.11
Relative permittivity	14.40
Conductivity (S/m)	1.52
Power Drift (%)	1.05
Ambient Temperature:	22.1°C
Liquid Temperature:	22.6°C
ConvF:	6.18
Duty factor:	1:1



Maximum location: X=1.00, Y=6.00

SAR 10g (W/Kg)	5.275322
SAR 1g (W/Kg)	10.152543

System Performance Check (Body, 2450MHz)

Type: Phone measurement

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

Zoom scan resolution: dx=5mm, dy=5mm, dz=4mm

Date of measurement: 08/09/2016

Measurement duration: 22 minutes 23 seconds

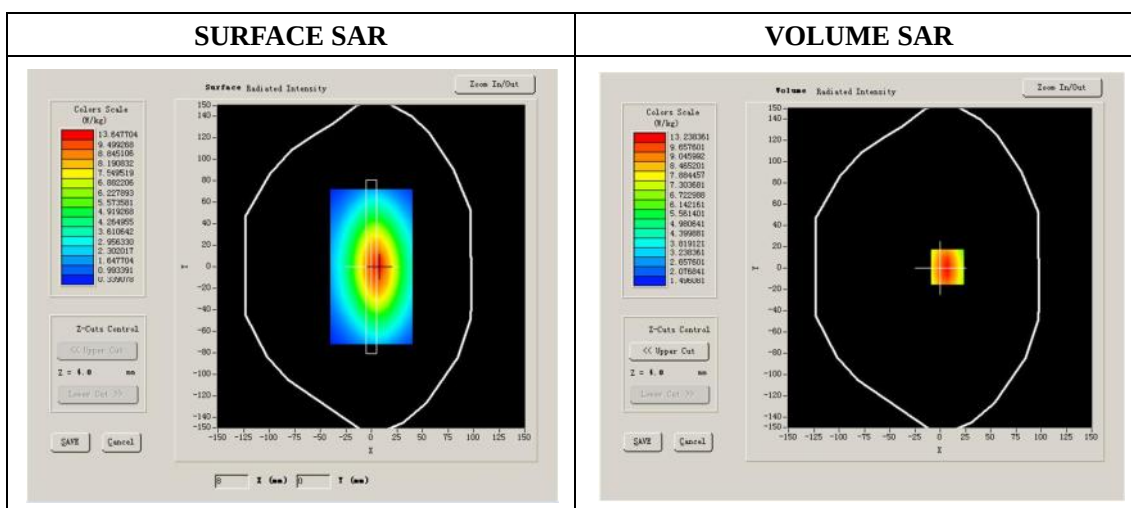
A. Experimental conditions.

Phantom File	dx=8mm dy=8mm
Phantom	7x7x8,dx=5mm dy=5mm dz=4mm
Device Position	Dipole
Band	2450MHz
Channels	
Signal	CW

B. SAR Measurement Results

Band SAR

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	2450
Relative permittivity (real part)	52.56
Relative permittivity	14.25
Conductivity (S/m)	1.94
Power Drift (%)	2.75
Duty factor:	1:1
ConvF:	5.70



Maximum location: X=0.00, Y=8.00

SAR 10g (W/Kg)	6.061314
SAR 1g (W/Kg)	13.051214

System Performance Check (Body, 2600MHz)

Type: Phone measurement

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

Zoom scan resolution: dx=5mm, dy=5mm, dz=4mm

Date of measurement: 08/09/2016

Measurement duration: 22 minutes 28 seconds

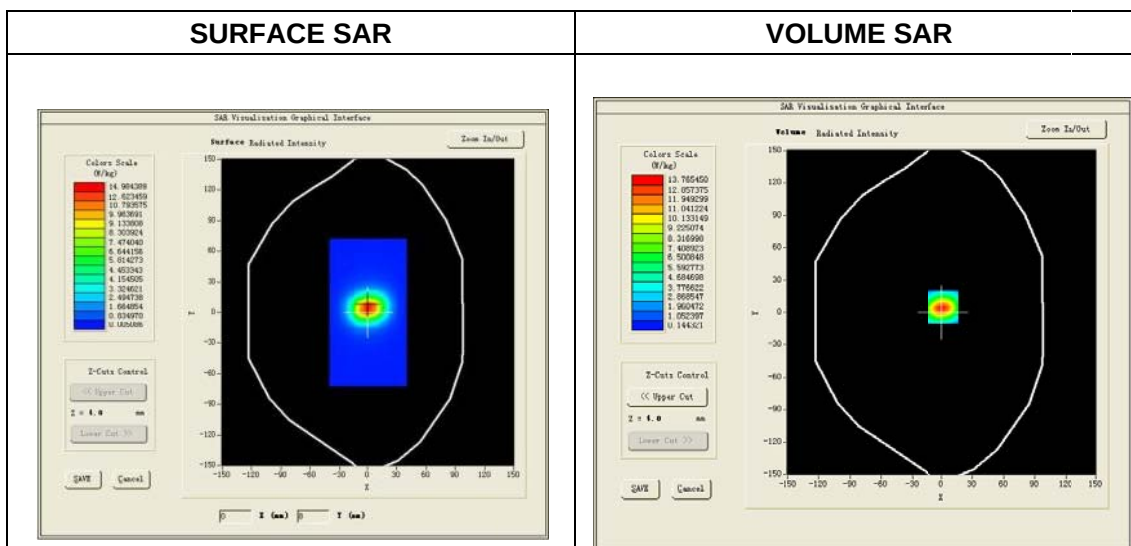
A. Experimental conditions.

Phantom File	dx=8mm dy=8mm
Phantom	7x7x8,dx=5mm dy=5mm dz=4mm
Device Position	Dipole
Band	2600MHz
Channels	
Signal	CW

B. SAR Measurement Results

Band SAR

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	2600
Relative permittivity (real part)	52.37
Relative permittivity	14.88
Conductivity (S/m)	2.15
Power drift (%)	2.35
Ambient Temperature:	22.2°C
Liquid Temperature:	22.5°C
Crest factor:	1:1
ConvF:	5.73



Maximum location: X=1.00, Y=4.00

SAR 10g (W/Kg)	5.980351
SAR 1g (W/Kg)	14.063205

Plot 1: GSM850, Edge B Middle

Type: Phone measurement

Date of measurement: 05/09/2016

Measurement duration: 21 minutes 15 seconds

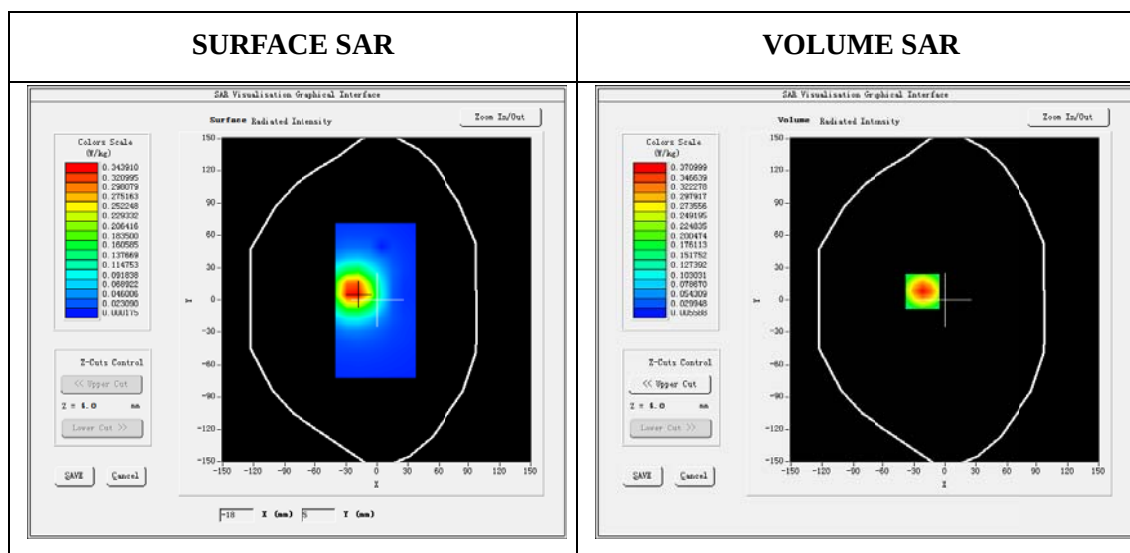
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Edge B
Band	GSPRS850_2Tx
Channels	190
Signal	GPRS(Duty cycle: 1:4)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	836.6
Relative permittivity (real part)	55.08
Relative permittivity (imaginary part)	20.54
Conductivity (S/m)	0.97
Variation (%)	3.02
ConvF:	7.07



Maximum location: X=-22.00, Y=8.00

SAR Peak: 0.65 W/kg

SAR 10g (W/Kg)	0.171181
SAR 1g (W/Kg)	0.348181

Plot 2: GSM1900, Edge B, Middle

Type: Phone measurement

Date of measurement: 07/09/2016

Measurement duration: 21 minutes 13 seconds

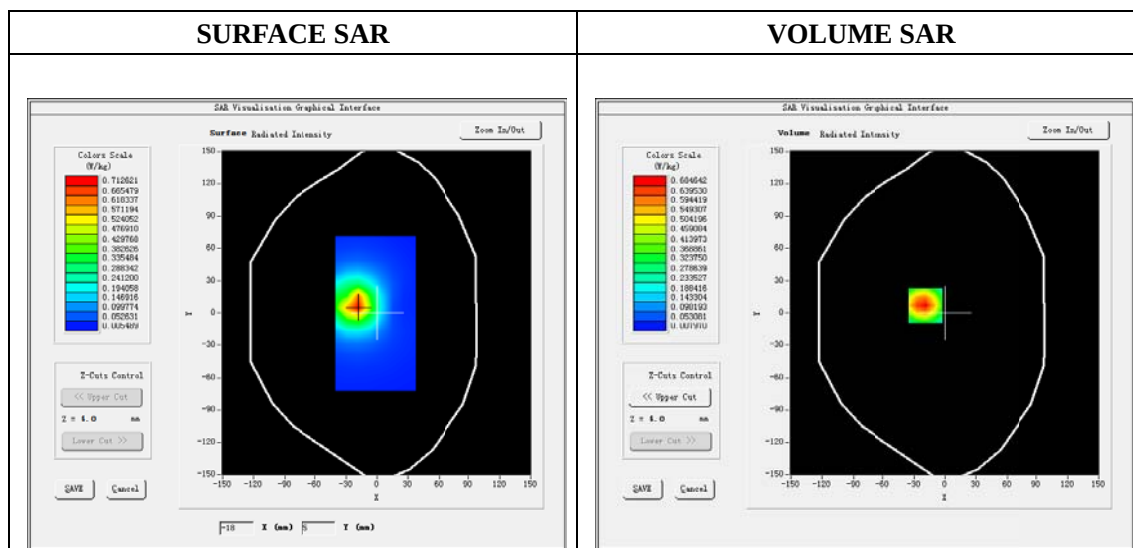
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Edge B
Band	GPRS1900_2Tx
Channels	661
Signal	GPRS (Duty cycle: 1:4)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	1880.0
Relative permittivity (real part)	53.11
Relative permittivity (imaginary part)	14.40
Conductivity (S/m)	1.52
Variation (%)	0.92
ConvF:	6.18



Maximum location: X=-19.00, Y=7.00

SAR Peak: 1.25 W/kg

SAR 10g (W/Kg)	0.312691
SAR 1g (W/Kg)	0.649674

Plot 3: WCDMA850, BACK, Middle

Type: Phone measurement

Date of measurement: 05/09/2016

Measurement duration: 21 minutes 01 seconds

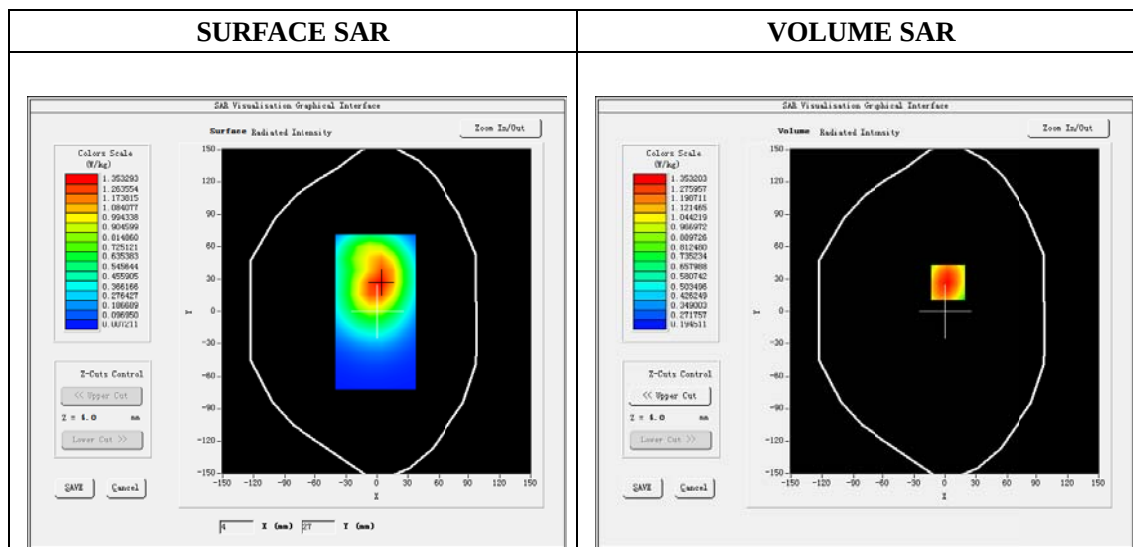
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	Band5_WCDMA850
Channels	4283
Signal	WCDMA (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	836.6
Relative permittivity (real part)	55.08
Relative permittivity (imaginary part)	20.54
Conductivity (S/m)	0.97
Variation (%)	0.26
ConvF:	7.07



Maximum location: X=3.00, Y=27.00

SAR 10g (W/Kg)	0.870044
SAR 1g (W/Kg)	1.294614

Plot 4: WCDMA1900, Back, Middle

Type: Phone measurement

Date of measurement: 07/09/2016

Measurement duration: 22 minutes 13 seconds

Mobile Phone IMEI number: --

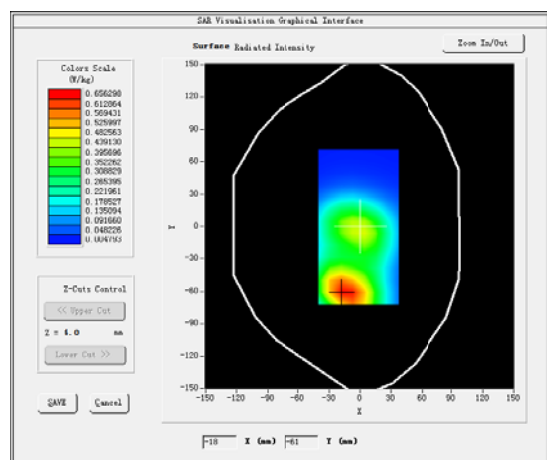
A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	Band2_WCDMA1900
Channels	9400
Signal	WCDMA (Duty cycle: 1:1)

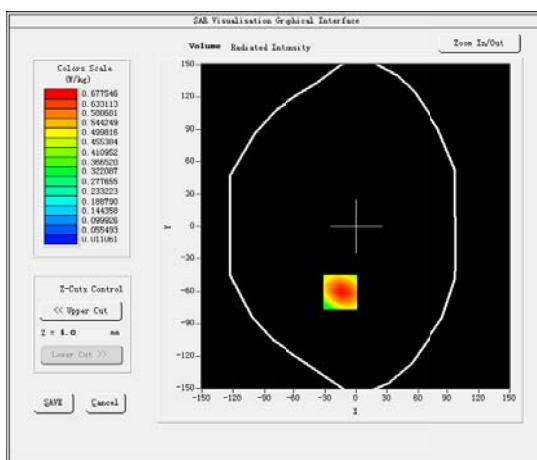
B. SAR Measurement Results

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	1880
Relative permittivity (real part)	53.11
Relative permittivity (imaginary)	14.40
Conductivity (S/m)	1.52
Variation (%)	0.26
ConvF:	6.18

SURFACE SAR



VOLUME SAR



Maximum location: X=-15.00, Y=-61.00

SAR Peak: 1.21 W/kg

SAR 10g (W/Kg)	0.333907
SAR 1g (W/Kg)	0.647438

Plot 5: LTE Band2, 20MHz, Edge B, Middle

Type: Phone measurement

Date of measurement: 07/09/2016

Measurement duration: 22 minutes 01 seconds

Mobile Phone IMEI number: --

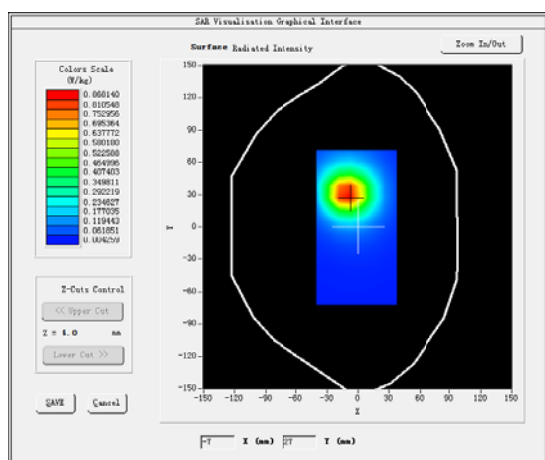
A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Edge B
Band	LTE Band 2
Channels	18900
Signal	LTE (Duty cycle: 1:1)

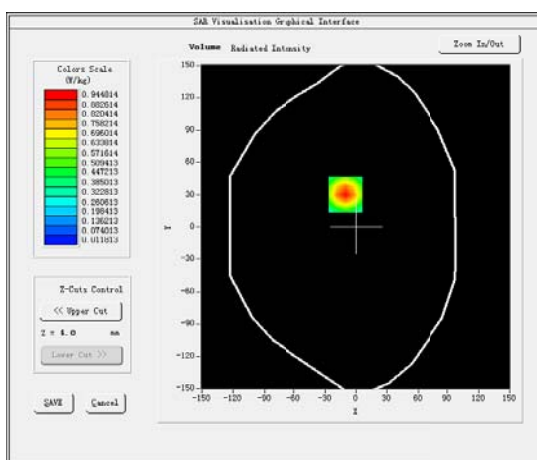
B. SAR Measurement Results

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	1880
Relative permittivity (real part)	53.11
Relative permittivity (imaginary)	14.40
Conductivity (S/m)	1.52
Variation (%)	-0.57
ConvF:	6.18

SURFACE SAR



VOLUME SAR



Maximum location: X=-10.00, Y=30.00

SAR Peak: 1.58W/kg

SAR 10g (W/Kg)	0.428613
SAR 1g (W/Kg)	0.787298

Plot 6: LTE Band5, 20MHz, Face, Middle

Type: Phone measurement

Date of measurement: 05/09/2016

Measurement duration: 22 minutes 12 seconds

Mobile Phone IMEI number: --

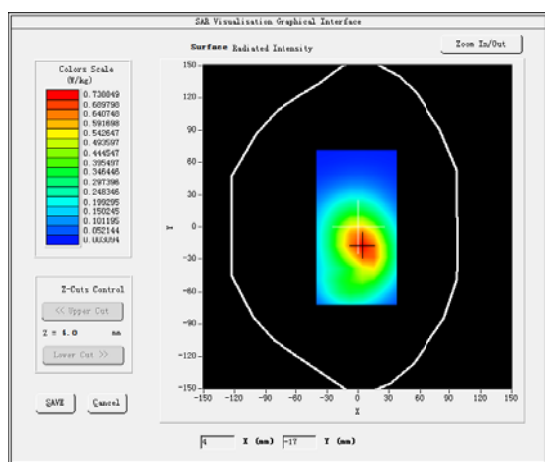
A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Face
Band	LTE Band 5
Channels	20525
Signal	LTE (Duty cycle: 1:1)

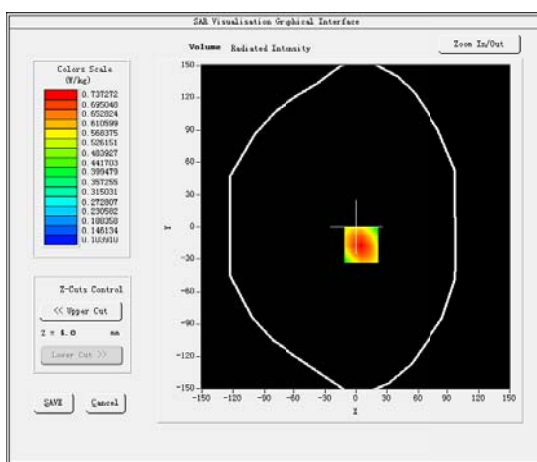
B. SAR Measurement Results

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	836.5
Relative permittivity (real part)	53.08
Relative permittivity (imaginary)	15.10
Conductivity (S/m)	0.97
Variation (%)	-0.39
ConvF:	7.07

SURFACE SAR



VOLUME SAR



Maximum location: X=5.00, Y=-17.00

SAR 10g (W/Kg)	0.472637
SAR 1g (W/Kg)	0.703013

Plot 7: LTE Band17, 10MHz, Face, Middle

Type: Phone measurement

Date of measurement: 05/09/2016

Measurement duration: 22 minutes 11 seconds

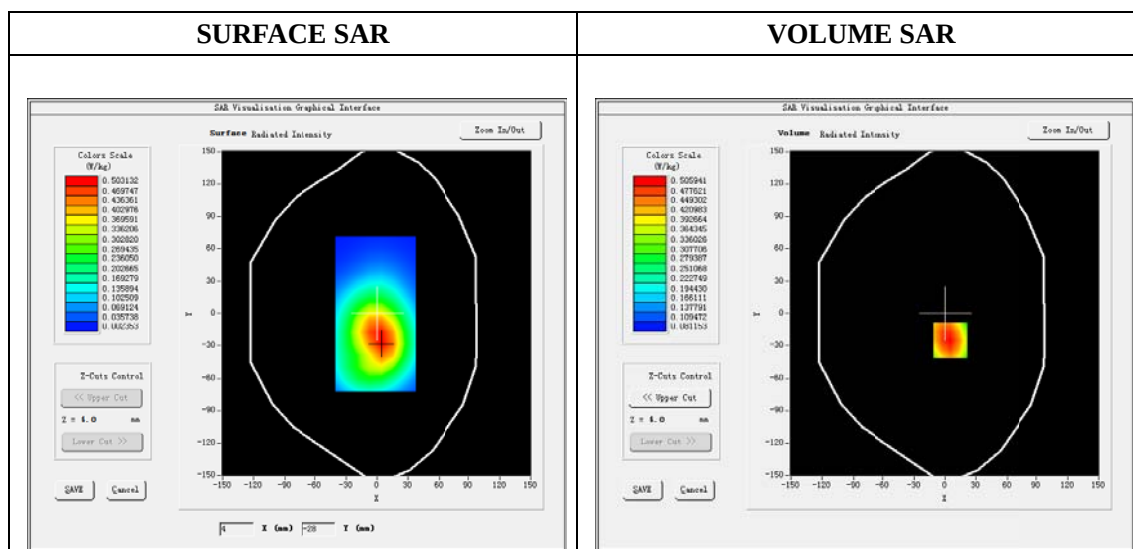
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Face
Band	LTE Band 7
Channels	23790
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	710
Relative permittivity (real part)	52.08
Relative permittivity (imaginary)	14.88
Conductivity (S/m)	0.97
Variation (%)	-0.91
ConvF:	6.13



Maximum location: X=5.00, Y=-25.00

SAR Peak: 0.67 W/kg

SAR 10g (W/Kg)	0.345731
SAR 1g (W/Kg)	0.512939

Plot 8: LTE Band41, 20MHz, Back, Middle

Type: Phone measurement

Date of measurement: 08/09/2016

Measurement duration: 22 minutes 11 seconds

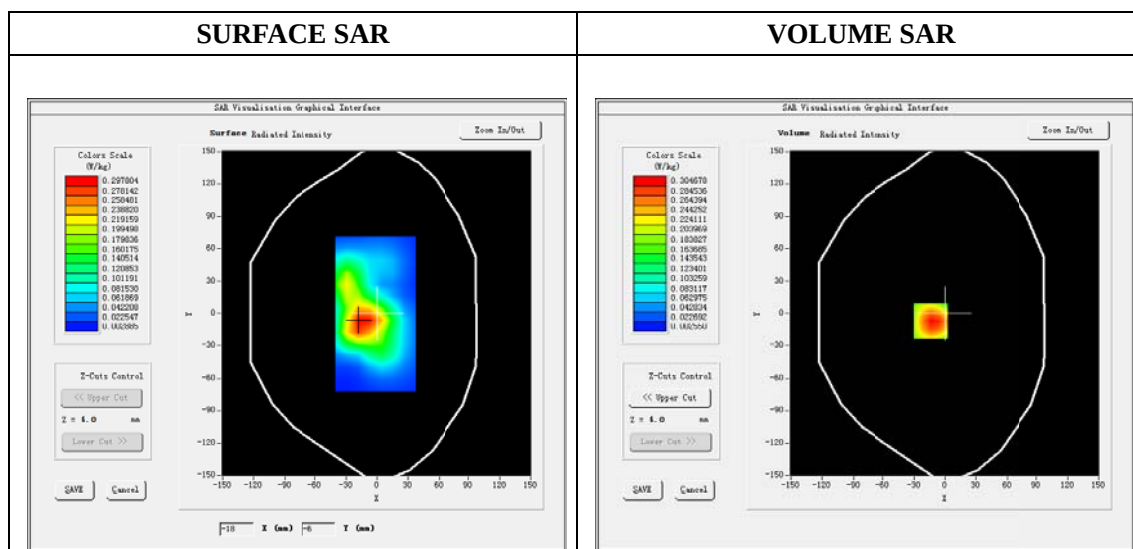
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	LTE Band 41
Channels	40620
Signal	LTE (Duty cycle: 1:0.633)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	2593
Relative permittivity (real part)	52.37
Relative permittivity (imaginary)	14.88
Conductivity (S/m)	2.15
Variation (%)	-1.11
ConvF:	5.73



Maximum location: X=-14.00, Y=-7.00

SAR Peak: 0.63 W/kg

SAR 10g (W/Kg)	0139337
SAR 1g (W/Kg)	0.296904

Plot 9: WIFI Back, Middle

Type: Phone measurement

Date of measurement: 08/09/2016

Measurement duration: 22 minutes 02 seconds

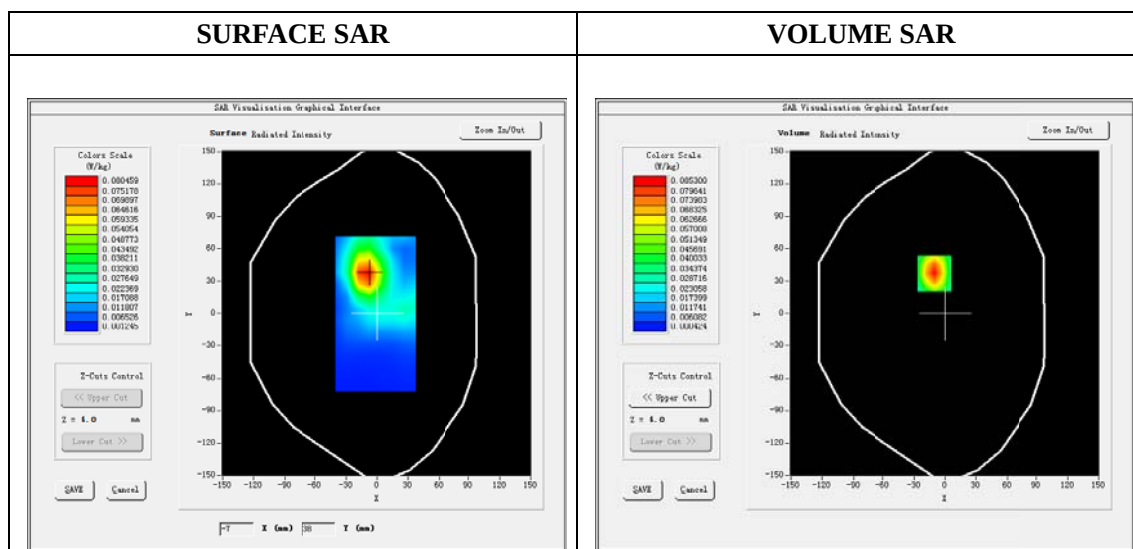
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	WIFI
Channels	6
Signal	OFDM (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_43/15_EP276
Frequency (MHz)	2437
Relative permittivity (real part)	52.56
Relative permittivity (imaginary)	14.29
Conductivity (S/m)	1.94
Variation (%)	-0.17
ConvF:	5.70



Maximum location: X=-10.00, Y=37.00

SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.035445
SAR 1g (W/Kg)	0.083670