Report No: KS110120B01-SF

I. 850MHz Band RESULTS

TYPE	PARAMETERS
Phone	Measurement 1: Right Head with Cheek device position on Low Channel in GSM850 mode Measurement 2: Right Head with Cheek device position on Middle Channel in GSM850 mode Measurement 3: Right Head with Cheek device position on High Channel in GSM850 mode Measurement 4: Right Head with Tilt device position on Low Channel in GSM850 mode Measurement 5: Right Head with Tilt device position on Middle Channel in GSM850 mode Measurement 6: Right Head with Tilt device position on High Channel in GSM850 mode Measurement 7: Left Head with Cheek device position on Low Channel in GSM850 mode Measurement 8: Left Head with Cheek device position on Middle Channel in GSM850 mode Measurement 9: Left Head with Cheek device position on High Channel in GSM850 mode Measurement 10: Left Head with Tilt device position on Low Channel in GSM850 mode Measurement 11: Left Head with Tilt device position on Middle Channel in GSM850 mode Measurement 11: Left Head with Tilt device position on High Channel in GSM850 mode Measurement 12: Left Head with Tilt device position on High Channel in GSM850 mode Measurement 13: FrontSide toward phantom 15mm, Low Channel in GSM850 mode Measurement 14: FrontSide toward phantom 15mm, Middle Channel in GSM850 mode Measurement 15: FrontSide toward phantom 15mm, High Channel in GSM850 mode



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Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dy=20mm dx=20mm dz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max	
Phantom	Right head	
Device Position	Cheek	
Band	GSM850	
Channels	Low	
Signal	GSM	

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A	
	SN:375052-AA1)		
Wireless Communication Test Set	R&S (CMU200,	Calibration Due: 05/25/2011	
	SN:B23-03291)		
Network Analyzer	Agilent(E5071B,	Calibration Due: 03/24/2012	
	MY42301382)		
Voltmeter	Keithley (2000,	Calibration Due: 05/25/2011	
	SN:1015843)		
Signal Generator	Agilent (E8257C,	Calibration Due: 03/24/2012	
	SN:MY43321570)		
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011	
	SN:110405)		
Power Meter	Agilent (E4416A,	Calibration Due: 03/24/2012	
	SN:QB41292714)		
Probe	Antennessa	Calibration Due: 05/10/2011	
	(SN:SN_1109_EP_100)		
DIPOLE 835	Antennessa (DIPI32,SN	Calibration Due: 02/09/2012	
	48/05)		
Phantom	Antennessa	Calibration Due: N/A	
	(SN:SN41_05_SAM29)		

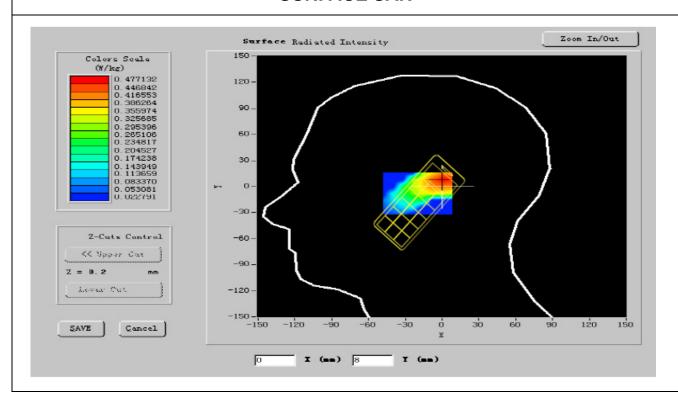


Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

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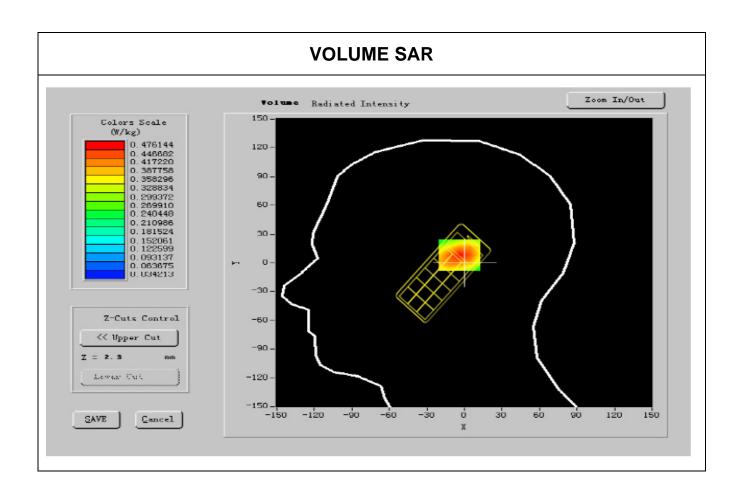
C. SAR Measurement Results

Frequency (MHz)	824.200012	
Relative permitivity (real part)	41.236999	
Relative permitivity (imaginary part)	19.511101	
Conductivity (S/m)	0.953392	
Variation (%)	-1.260000	
Ambient Temperature:	21 °C	
Liquid Temperature:	20 °C	
ConvF:	20.66, 20.51, 28.36	
Crest factor:	1:8	





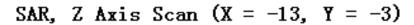


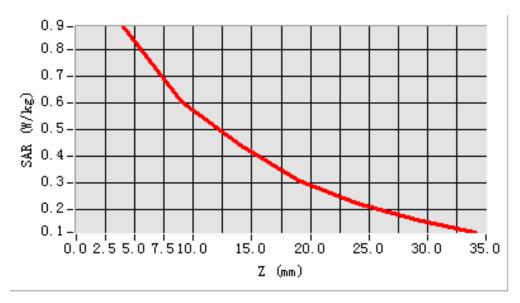


SAR 10g (W/Kg)	0.521416
SAR 1g (W/Kg)	0.801137

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.0404	0.5076	0.4522	0.0756	0.4005	0.4465
(W/kg)	0.0000	0.8491	0.5876	0.4532	0.2756	0.1985	0.1465









Report No: KS110120B01-SF

Date of measurement: 04/14/2011

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dy=20mm dx=20mm dz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max	
Phantom	Right head	
Device Position	Cheek	
Band	GSM850	
Channels	Middle	
Signal	GSM	

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A	
	SN:375052-AA1)		
Wireless Communication Test Set	R&S (CMU200,	Calibration Due: 05/25/2011	
	SN:B23-03291)		
Network Analyzer	Agilent(E5071B,	Calibration Due: 03/24/2012	
	MY42301382)		
Voltmeter	Keithley (2000,	Calibration Due: 05/25/2011	
	SN:1015843)		
Signal Generator	Agilent (E8257C,	Calibration Due: 03/24/2012	
	SN:MY43321570)		
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011	
	SN:110405)		
Power Meter	Agilent (E4416A,	Calibration Due: 03/24/2012	
	SN:QB41292714)		
Probe	Antennessa	Calibration Due: 05/10/2011	
	(SN:SN_1109_EP_100)		
DIPOLE 835	Antennessa (DIPI32,SN	Calibration Due: 02/09/2012	
	48/05)		
Phantom	Antennessa	Calibration Due: N/A	
	(SN:SN41_05_SAM29)		

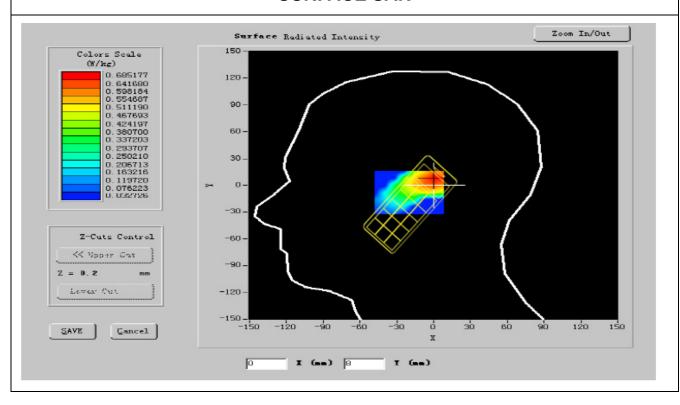


Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

Report No: KS110120B01-SF

C. SAR Measurement Results

Frequency (MHz)	836.600024
Relative permitivity (real part)	41.156999
Relative permitivity (imaginary part)	19.511101
Conductivity (S/m)	0.921616
Variation (%)	-0.125000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	1:8





VOLUME SAR					

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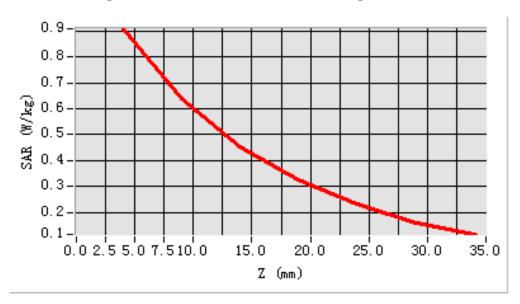
Maximum location: X=-13.00, Y=-3.00

SAR 10g (W/Kg)	0.513214	
SAR 1g (W/Kg)	0.825327	

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.0603	0 5007	0.4462	0.4072	0.2245	0.4672
(W/kg)	0.0000	0.8683	0.5987	0.4463	0.4073	0.2345	0.1673



SAR, Z Axis Scan (X = -13, Y = -3)





Report No: KS110120B01-SF

Date of measurement: 04/14/2011

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max		
Phantom	Right head		
Device Position	Cheek		
Band	GSM850		
Channels	High		
Signal	GSM		

B. Instrumentations.

HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
SN:375052-AA1)	
R&S (CMU200,	Calibration Due: 05/25/2011
SN:B23-03291)	
Agilent(E5071B,	Calibration Due: 03/24/2012
MY42301382)	
Keithley (2000,	Calibration Due: 05/25/2011
SN:1015843)	
Agilent (E8257C,	Calibration Due: 03/24/2012
SN:MY43321570)	
Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
SN:110405)	
Agilent (E4416A,	Calibration Due: 03/24/2012
SN:QB41292714)	
Antennessa	Calibration Due: 05/10/2011
(SN:SN_1109_EP_100)	
Antennessa (DIPI32,SN	Calibration Due: 02/09/2012
48/05)	
Antennessa	Calibration Due: N/A
(SN:SN41_05_SAM29)	
Antennessa	Calibration Due: N/A
	SN:375052-AA1) R&S (CMU200, SN:B23-03291) Agilent(E5071B, MY42301382) Keithley (2000, SN:1015843) Agilent (E8257C, SN:MY43321570) Mini-Circuits (ZHL-42, SN:110405) Agilent (E4416A, SN:QB41292714) Antennessa (SN:SN_1109_EP_100) Antennessa (DIPI32,SN 48/05) Antennessa (SN:SN41_05_SAM29)

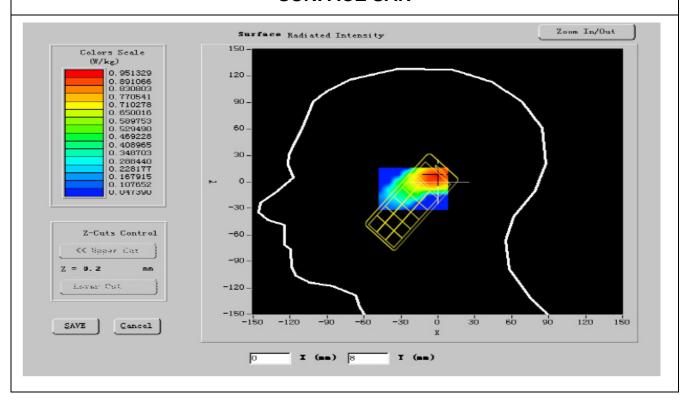


Measurement SW OPEN SAR V2.1 Calibration Due: N/A

Report No: KS110120B01-SF

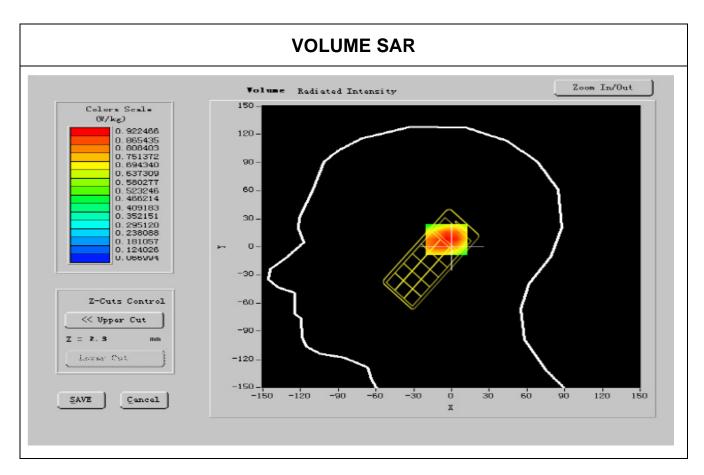
C. SAR Measurement Results

Frequency (MHz)	848.799976	
Relative permitivity (real part)	41.352001	
Relative permitivity (imaginary part)	19.598200	
Conductivity (S/m)	0.943946	
Variation (%)	-0.127000	
Ambient Temperature:	21 °C	
Liquid Temperature:	20 °C	
ConvF:	20.66, 20.51, 28.36	
Crest factor:	1:8	





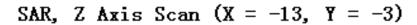


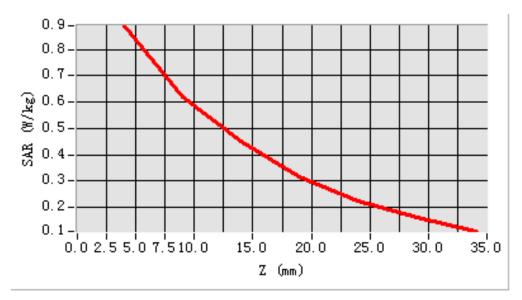


SAR 10g (W/Kg)	0.516241	
SAR 1g (W/Kg)	0.887148	

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0 94446	0.58763	0.4127	0 2047	0.1987	0.1324
(W/kg)	0.0000	0.04440	0.30763	0.4121	0.2947	U.1901	0.1324









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MEASUREMENT 4

Date of measurement: 04/14/2011

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dy=20mm dx=20mm dz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max		
Phantom	Right head		
Device Position	Tilt		
Band	GSM850		
Channels	Low		
Signal	GSM		

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication Test Set	R&S (CMU200,	Calibration Due: 05/25/2011
	SN:B23-03291)	
Network Analyzer	Agilent(E5071B,	Calibration Due: 03/24/2012
	MY42301382)	
Voltmeter	Keithley (2000,	Calibration Due: 05/25/2011
	SN:1015843)	
Signal Generator	Agilent (E8257C,	Calibration Due: 03/24/2012
	SN:MY43321570)	
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A,	Calibration Due: 03/24/2012
	SN:QB41292714)	
Probe	Antennessa	Calibration Due: 05/10/2011
	(SN:SN_1109_EP_100)	
DIPOLE 835	Antennessa (DIPI32,SN	Calibration Due: 02/09/2012
	48/05)	
Phantom	Antennessa	Calibration Due: N/A
	(SN:SN41_05_SAM29)	



Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

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C. SAR Measurement Results

Frequency (MHz)	824.200012
Relative permitivity (real part)	41.576999
Relative permitivity (imaginary part)	19.511101
Conductivity (S/m)	0.954392
Variation (%)	-3.360000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	1:8



VOLUME SAR						

Report No: KS110120B01-SF

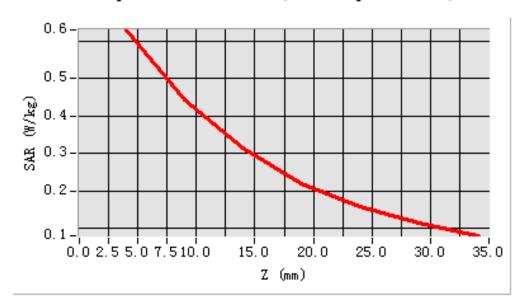
Maximum location: X=-13.00, Y=-3.00

SAR 10g (W/Kg)	0.324310
SAR 1g (W/Kg)	0.517521

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.5756	0.4054	0.2254	0.2454	0.4044	0 0111
(W/kg)	0.0000	0.5756	0.4854	0.3354	0.2154	0.1911	0.0111



SAR, Z Axis Scan (X = -9, Y = -6)





Report No: KS110120B01-SF

Date of measurement: 04/14/2011

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max		
Phantom	Right head		
Device Position	Tilt		
Band	GSM850		
Channels	Middle		
Signal	GSM		

B. Instrumentations.

HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
SN:375052-AA1)	
R&S (CMU200,	Calibration Due: 05/25/2011
SN:B23-03291)	
Agilent(E5071B,	Calibration Due: 03/24/2012
MY42301382)	
Keithley (2000,	Calibration Due: 05/25/2011
SN:1015843)	
Agilent (E8257C,	Calibration Due: 03/24/2012
SN:MY43321570)	
Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
SN:110405)	
Agilent (E4416A,	Calibration Due: 03/24/2012
SN:QB41292714)	
Antennessa	Calibration Due: 05/10/2011
(SN:SN_1109_EP_100)	
Antennessa (DIPI32,SN	Calibration Due: 02/09/2012
48/05)	
Antennessa	Calibration Due: N/A
(SN:SN41_05_SAM29)	
Antennessa	Calibration Due: N/A
	SN:375052-AA1) R&S (CMU200, SN:B23-03291) Agilent(E5071B, MY42301382) Keithley (2000, SN:1015843) Agilent (E8257C, SN:MY43321570) Mini-Circuits (ZHL-42, SN:110405) Agilent (E4416A, SN:QB41292714) Antennessa (SN:SN_1109_EP_100) Antennessa (DIPI32,SN 48/05) Antennessa (SN:SN41_05_SAM29)



Measurement SW OPEN SAR V2.1 Calibration Due: N/A

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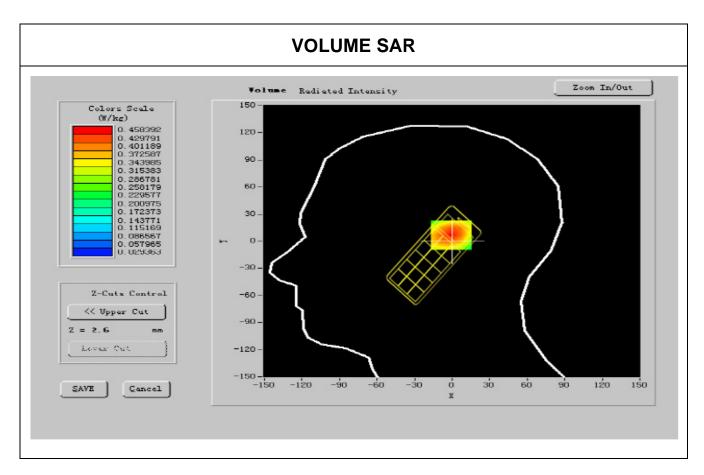
C. SAR Measurement Results

Frequency (MHz)	836.600024
Relative permitivity (real part)	41.753999
Relative permitivity (imaginary part)	19.511101
Conductivity (S/m)	0.947625
Variation (%)	-0.657000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	1:8

SURFACE SAR



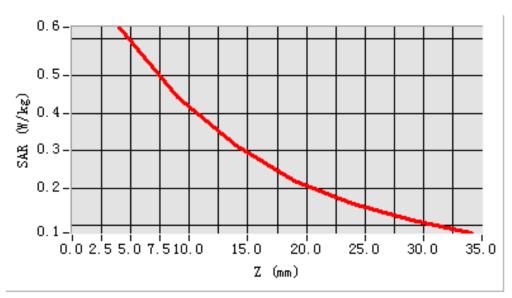




SAR 10g (W/Kg)	0.451604
SAR 1g (W/Kg)	0.600424

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.5020	0.4254	0.2254	0.2454	0.4644	0.0422
(W/kg)	0.0000	0.5929	0.4354	0.3354	0.2154	0.1611	0.0123

SAR, Z Axis Scan (X = -9, Y = -6)





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Date of measurement: 04/14/2011

Area Scan: 7 x 7 x 1 dy=15mm dx=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dy=20mm dx=20mmdz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max		
Phantom	Right head		
Device Position	Tilt		
Band	GSM850		
Channels	High		
Signal	GSM		

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication Test Set	R&S (CMU200,	Calibration Due: 05/25/2011
	SN:B23-03291)	
Network Analyzer	Agilent(E5071B,	Calibration Due: 03/24/2012
	MY42301382)	
Voltmeter	Keithley (2000,	Calibration Due: 05/25/2011
	SN:1015843)	
Signal Generator	Agilent (E8257C,	Calibration Due: 03/24/2012
	SN:MY43321570)	
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A,	Calibration Due: 03/24/2012
	SN:QB41292714)	
Probe	Antennessa	Calibration Due: 05/10/2011
	(SN:SN_1109_EP_100)	
DIPOLE 835	Antennessa (DIPI32,SN	Calibration Due: 02/09/2012
	48/05)	

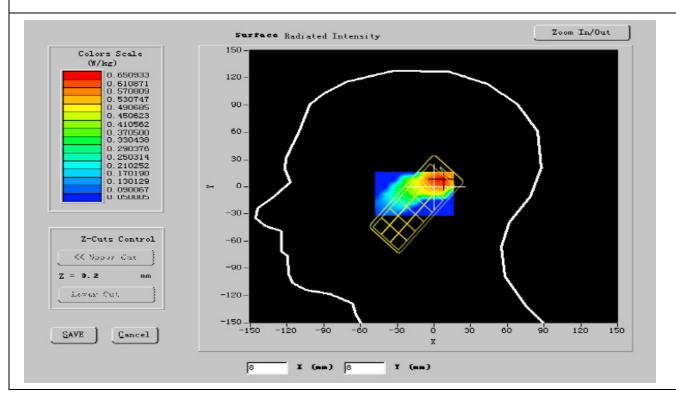


Phantom	Antennessa	Calibration Due: N/A
	(SN:SN41_05_SAM29)	
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

Report No: KS110120B01-SF

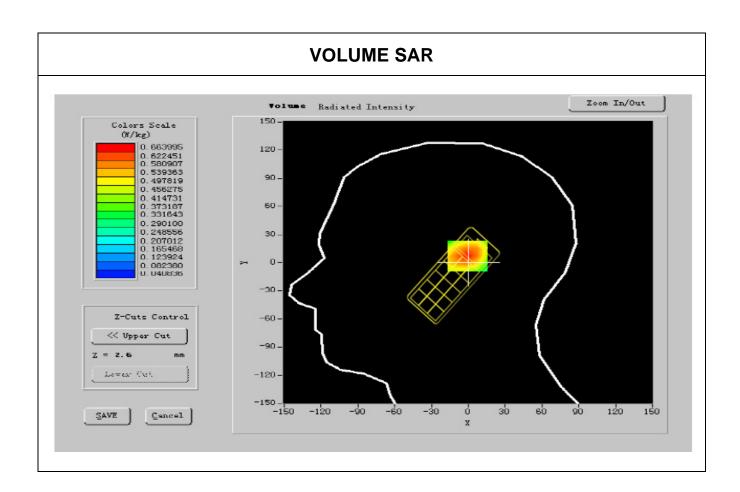
C. SAR Measurement Results

Frequency (MHz)	848.799976
Relative permitivity (real part)	41.546001
Relative permitivity (imaginary part)	19.598200
Conductivity (S/m)	0.975944
Variation (%)	-3.485000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	1:8









SAR 10g (W/Kg)	0.4156644
SAR 1g (W/Kg)	0.647540

Z Axis Scan

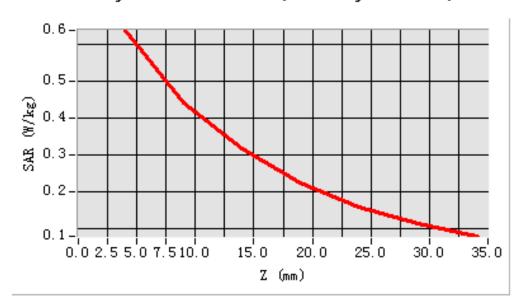
Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.5994	0.4354	0.3354	0.2154	0.1611	0.1234



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(W/kg)

SAR, Z Axis Scan (X = -9, Y = -6)





Report No: KS110120B01-SF

Date of measurement: 04/14/2011

Area Scan: 7 x 7 x 1 dy=15mm dx=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dy=20mm dx=20mm dz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max	
Phantom	Left head	
Device Position	Cheek	
Band	GSM850	
Channels	Low	
Signal	GSM	

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication Test Set	R&S (CMU200,	Calibration Due: 05/25/2011
	SN:B23-03291)	
Network Analyzer	Agilent(E5071B,	Calibration Due: 03/24/2012
	MY42301382)	
Voltmeter	Keithley (2000,	Calibration Due: 05/25/2011
	SN:1015843)	
Signal Generator	Agilent (E8257C,	Calibration Due: 03/24/2012
	SN:MY43321570)	
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A,	Calibration Due: 03/24/2012
	SN:QB41292714)	
Probe	Antennessa	Calibration Due: 05/10/2011
	(SN:SN_1109_EP_100)	
DIPOLE 835	Antennessa (DIPI32,SN	Calibration Due: 02/09/2012
	48/05)	

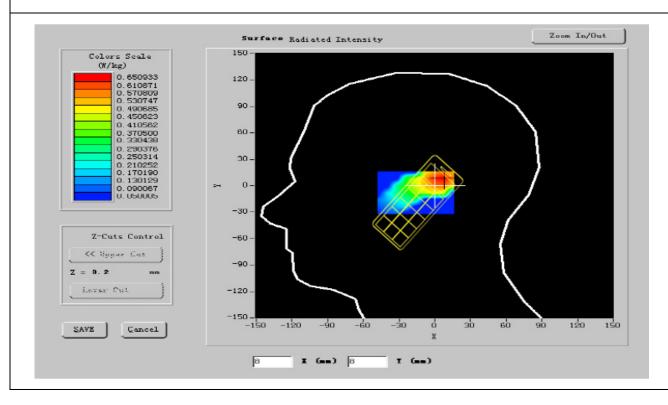


Phantom	Antennessa	Calibration Due: N/A
	(SN:SN41_05_SAM29)	
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

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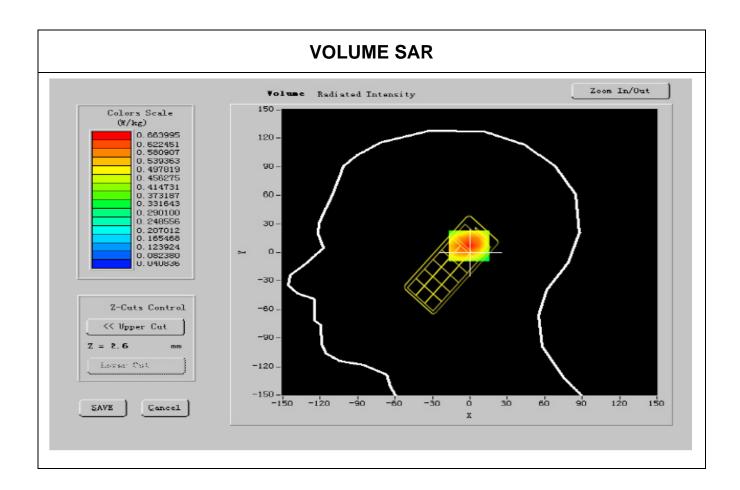
C. SAR Measurement Results

Frequency (MHz)	824.200012
Relative permitivity (real part)	41.754999
Relative permitivity (imaginary part)	19.511101
Conductivity (S/m)	0.958637
Variation (%)	-1.450000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	1:8







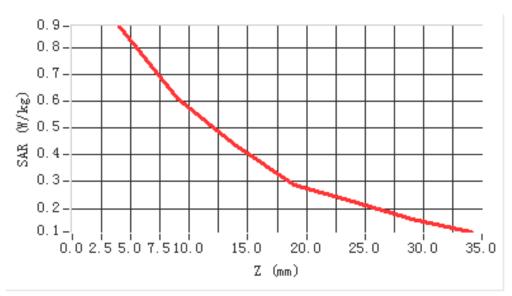


SAR 10g (W/Kg)	0.524614	
SAR 1g (W/Kg)	0.875125	

Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.9200	0.5254	0.4454	0.2054	0 2444	0.4252
(W/kg)	0.0000	0.8390	0.5354	0.4154	0.2854	0.2111	0.1352

SAR, Z Axis Scan (X = -25, Y = -11)





Report No: KS110120B01-SF

Date of measurement: 04/14/2011

Area Scan: 7 x 7 x 1 dy=15mm dx=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dy=20mm dx=20mm dz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max	
Phantom	Left head	
Device Position	Cheek	
Band	GSM850	
Channels	Middle	
Signal	GSM	

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication Test Set	R&S (CMU200,	Calibration Due: 05/25/2011
	SN:B23-03291)	
Network Analyzer	Agilent(E5071B,	Calibration Due: 03/24/2012
	MY42301382)	
Voltmeter	Keithley (2000,	Calibration Due: 05/25/2011
	SN:1015843)	
Signal Generator	Agilent (E8257C,	Calibration Due: 03/24/2012
	SN:MY43321570)	
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A,	Calibration Due: 03/24/2012
	SN:QB41292714)	
Probe	Antennessa	Calibration Due: 05/10/2011
	(SN:SN_1109_EP_100)	
DIPOLE 835	Antennessa (DIPI32,SN	Calibration Due: 02/09/2012
	48/05)	

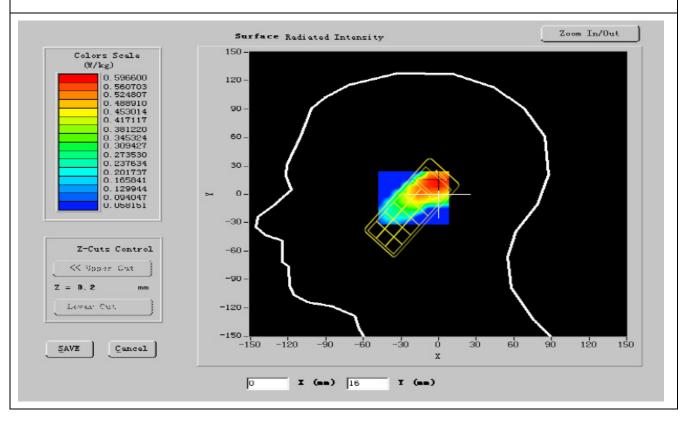


Phantom	Antennessa	Calibration Due: N/A
	(SN:SN41_05_SAM29)	
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

Report No: KS110120B01-SF

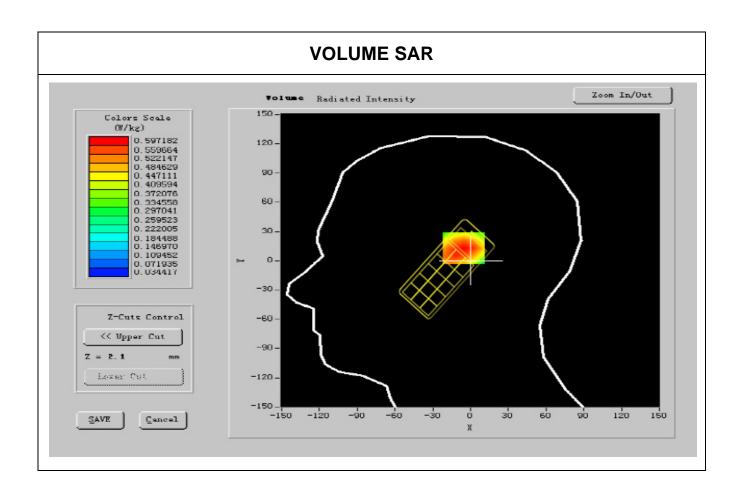
C. SAR Measurement Results

Frequency (MHz)	836.600024
Relative permitivity (real part)	41.248999
Relative permitivity (imaginary part)	19.435110
Conductivity (S/m)	0.9563247
Variation (%)	-1.580000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	1:8









SAR 10g (W/Kg)	0.542642	
SAR 1g (W/Kg)	0.812157	

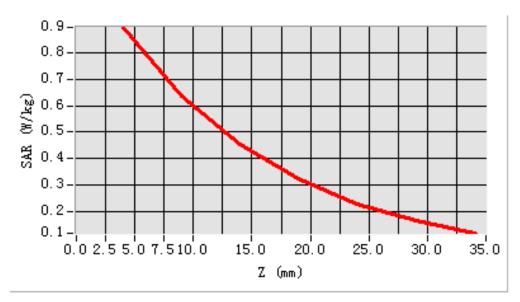
Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.8507	0.5334	0.4132	0.2832	0.2132	0.1353



Report No: KS110120B01-SF

(W/kg)

SAR, Z Axis Scan (X = -25, Y = -11)





Report No: KS110120B01-SF

Date of measurement: 04/14/2011

Area Scan: 7 x 7 x 1 dy=15mm dx=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dy=20mm dx=20mmdz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max		
Phantom Left head			
Device Position	Cheek		
Band	GSM850		
Channels	High		
Signal GSM			

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication Test Set	R&S (CMU200,	Calibration Due: 05/25/2011
	SN:B23-03291)	
Network Analyzer	Agilent(E5071B,	Calibration Due: 03/24/2012
	MY42301382)	
Voltmeter	Keithley (2000,	Calibration Due: 05/25/2011
	SN:1015843)	
Signal Generator	Agilent (E8257C,	Calibration Due: 03/24/2012
	SN:MY43321570)	
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A,	Calibration Due: 03/24/2012
	SN:QB41292714)	
Probe	Antennessa	Calibration Due: 05/10/2011
	(SN:SN_1109_EP_100)	
DIPOLE 835	Antennessa (DIPI32,SN	Calibration Due: 02/09/2012
	48/05)	

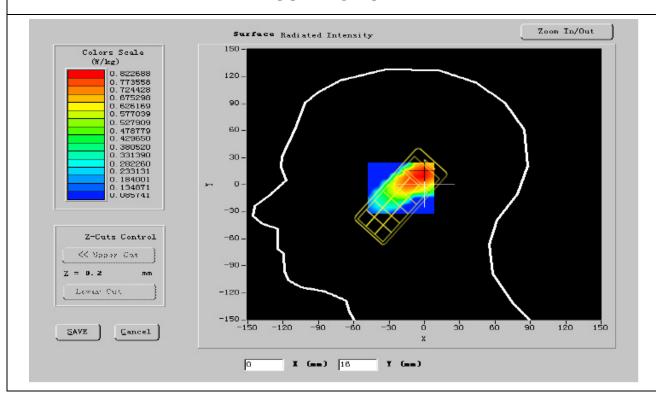


Phantom	Antennessa	Calibration Due: N/A
	(SN:SN41_05_SAM29)	
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

Report No: KS110120B01-SF

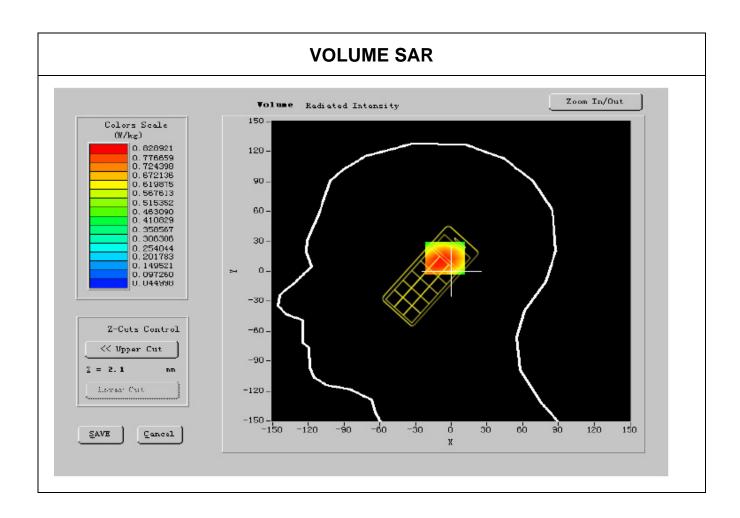
C. SAR Measurement Results

Frequency (MHz)	848.799976
Relative permitivity (real part)	41.578845
Relative permitivity (imaginary part)	19.598200
Conductivity (S/m)	0.975946
Variation (%)	-2.510000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	1:8









SAR 10g (W/Kg)	0.512435		
SAR 1g (W/Kg)	0.864274		

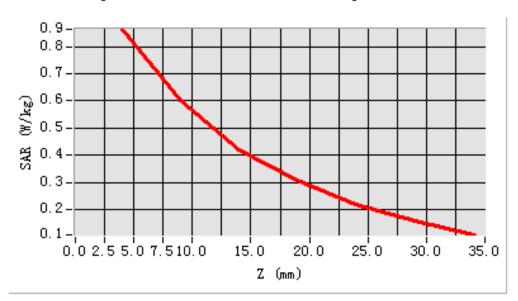
Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.8129	0.5323	0.4545	0.2834	0.2132	0.1323



Compliance Certification Services Inc. Report No: KS110120B01-SF

(a)				

SAR, Z Axis Scan (X = -25, Y = -11)





Report No: KS110120B01-SF

Date of measurement: 04/14/2011

Area Scan: 7 x 7 x 1 dy=15mm dx=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

dy=20mm **Z Axis Scan: 1 x 1 x 21** dx=20mmdz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Left head
Device Position	Tilt
Band	GSM850
Channels	Low
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication Test Set	R&S (CMU200,	Calibration Due: 05/25/2011
	SN:B23-03291)	
Network Analyzer	Agilent(E5071B,	Calibration Due: 03/24/2012
	MY42301382)	
Voltmeter	Keithley (2000,	Calibration Due: 05/25/2011
	SN:1015843)	
Signal Generator	Agilent (E8257C,	Calibration Due: 03/24/2012
	SN:MY43321570)	
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A,	Calibration Due: 03/24/2012
	SN:QB41292714)	
Probe	Antennessa	Calibration Due: 05/10/2011

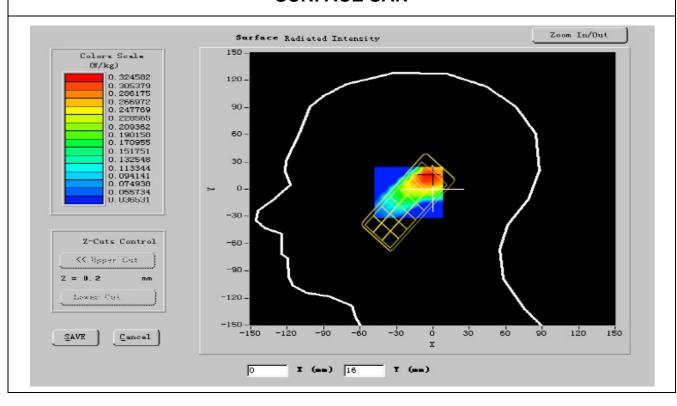


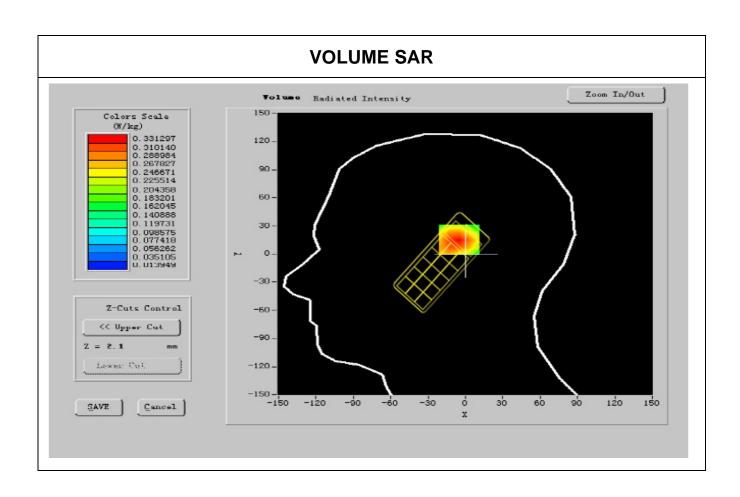
	(SN:SN_1109_EP_100)	
DIPOLE 835	Antennessa (DIPI32,SN	Calibration Due: 02/09/2012
	48/05)	
Phantom	Antennessa	Calibration Due: N/A
	(SN:SN41_05_SAM29)	
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

Report No: KS110120B01-SF

C. SAR Measurement Results

Frequency (MHz)	824.200012
Relative permitivity (real part)	42.132364
Relative permitivity (imaginary part)	19.511101
Conductivity (S/m)	0.954351
Variation (%)	-1.240000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	1:8





SAR 10g (W/Kg)	0.353284
SAR 1g (W/Kg)	0.4026596

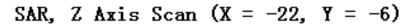
Z Axis Scan

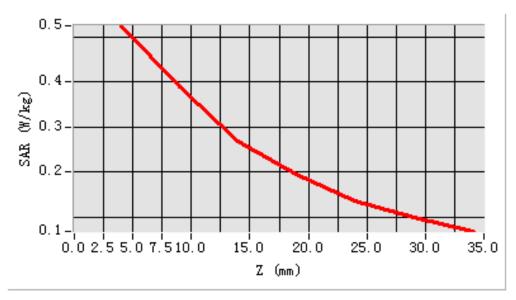
Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00



Compliance Certification Services Inc. Report No: KS110120B01-SF

SAR	0.0000	0.4049	0.5222	0.0564	0.4004	0.4442	0.4454
(W/kg)	0.0000	0.4918	0.5332	0.2564	0.1821	0.1443	0.1454







Report No: KS110120B01-SF

Date of measurement: 04/14/2011

Area Scan: 7 x 7 x 1 dy=15mm dx=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

dy=20mm **Z Axis Scan: 1 x 1 x 21** dx=20mmdz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Left head
Device Position	Tilt
Band	GSM850
Channels	Middle
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication Test Set	R&S (CMU200,	Calibration Due: 05/25/2011
	SN:B23-03291)	
Network Analyzer	Agilent(E5071B,	Calibration Due: 03/24/2012
	MY42301382)	
Voltmeter	Keithley (2000,	Calibration Due: 05/25/2011
	SN:1015843)	
Signal Generator	Agilent (E8257C,	Calibration Due: 03/24/2012
	SN:MY43321570)	
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	

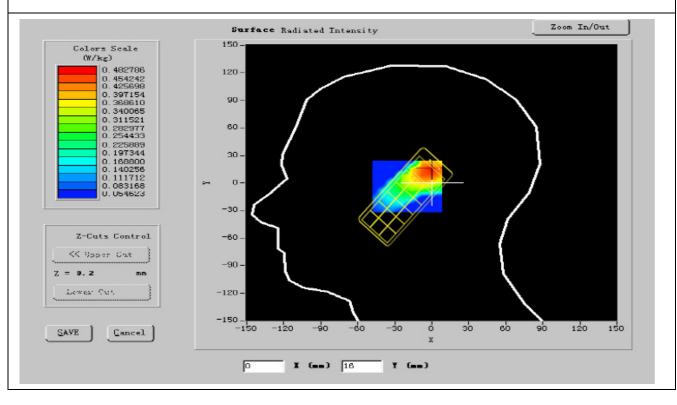


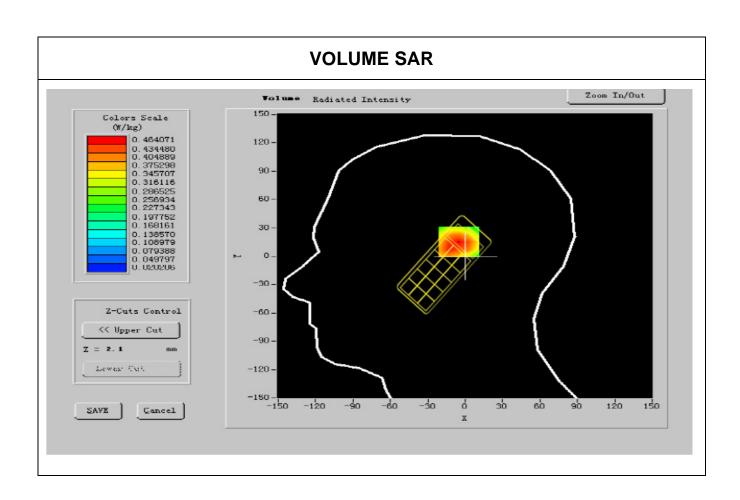
Power Meter	Agilent (E4416A,	Calibration Due: 03/24/2012
	SN:QB41292714)	
Probe	Antennessa	Calibration Due: 05/10/2011
	(SN:SN_1109_EP_100)	
DIPOLE 835	Antennessa (DIPI32,SN	Calibration Due: 02/09/2012
	48/05)	
Phantom	Antennessa	Calibration Due: N/A
	(SN:SN41_05_SAM29)	
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

Report No: KS110120B01-SF

C. SAR Measurement Results

Frequency (MHz)	836.600024
Relative permitivity (real part)	42.154952
Relative permitivity (imaginary part)	19.511101
Conductivity (S/m)	0.9264140
Variation (%)	-2.250000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	1:8





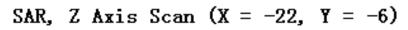
SAR 10g (W/Kg)	0.3257424
SAR 1g (W/Kg)	0.5137232

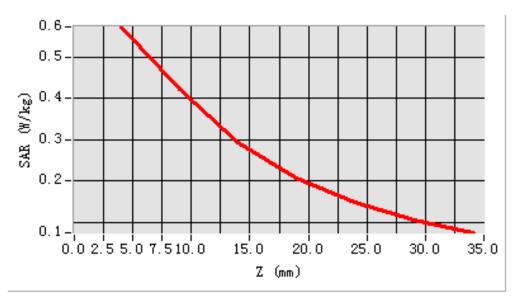
Z Axis Scan



Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.5533	0.4132	0.2964	0.2021	0.1643	0.1154
(W/kg)	0.0000	0.5555	0.4132	0.2904	0.2021	0.1043	0.1154

Report No: KS110120B01-SF







Report No: KS110120B01-SF

Date of measurement: 04/14/2011

Area Scan: 7 x 7 x 1 dy=15mm dx=15mm

Zoom Scan: 5 x 5 x 7 dy=5mm dx=5mm dz=5mm

dy=20mm Z Axis Scan: 1 x 1 x 21 dx=20mm dz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Left head
Device Position	Tilt
Band	GSM850
Channels	High
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication Test Set	R&S (CMU200,	Calibration Due: 05/25/2011
	SN:B23-03291)	
Network Analyzer	Agilent(E5071B,	Calibration Due: 03/24/2012
	MY42301382)	
Voltmeter	Keithley (2000,	Calibration Due: 05/25/2011
	SN:1015843)	
Signal Generator	Agilent (E8257C,	Calibration Due: 03/24/2012
	SN:MY43321570)	
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011

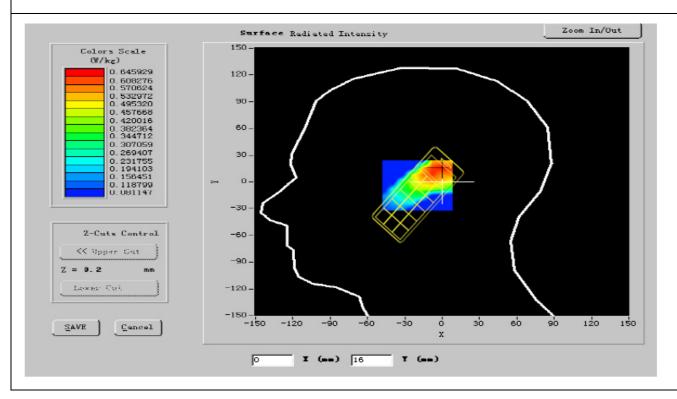


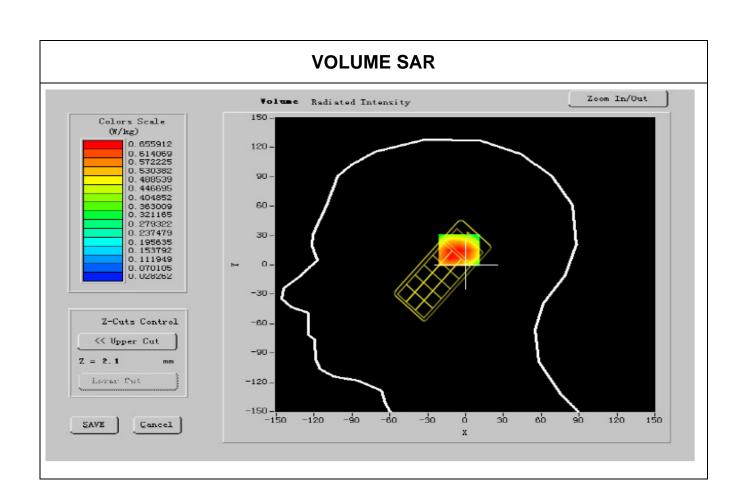
	1
SN:110405)	
Agilent (E4416A,	Calibration Due: 03/24/2012
SN:QB41292714)	
Antennessa	Calibration Due: 05/10/2011
(SN:SN_1109_EP_100)	
Antennessa (DIPI32,SN	Calibration Due: 02/09/2012
48/05)	
Antennessa	Calibration Due: N/A
(SN:SN41_05_SAM29)	
Antennessa	Calibration Due: N/A
OPEN SAR V2.1	Calibration Due: N/A
	Agilent (E4416A, SN:QB41292714) Antennessa (SN:SN_1109_EP_100) Antennessa (DIPI32,SN 48/05) Antennessa (SN:SN41_05_SAM29) Antennessa

Report No: KS110120B01-SF

C. SAR Measurement Results

Frequency (MHz)	848.799976
Relative permitivity (real part)	42.262154
Relative permitivity (imaginary part)	19.598200
Conductivity (S/m)	0.9256947
Variation (%)	-1.2350000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	1:8





SAR 10g (W/Kg)	0.381348
SAR 1g (W/Kg)	0.531430

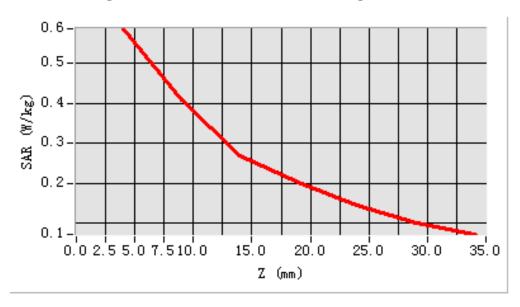


Z Axis Scan

Report No: KS110120B01-SF

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.5540	0.44.40	0.2664	0.2020	0.4542	0.4054
(W/kg)	0.0000	0.5510	0.4142	0.2664	0.2020	0.1543	0.1054

SAR, Z Axis Scan (X = -22, Y = -6)



Report No: KS110120B01-SF

Date of measurement: 04/14/2011

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

dz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Body
Device Position	FrontSide toward phantom
Band	GSM850
Channels	Low
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication Test Set	R&S (CMU200,	Calibration Due: 05/25/2011
	SN:B23-03291)	
Network Analyzer	Agilent(E5071B,	Calibration Due: 03/24/2012
	MY42301382)	
Voltmeter	Keithley (2000,	Calibration Due: 05/25/2011
	SN:1015843)	



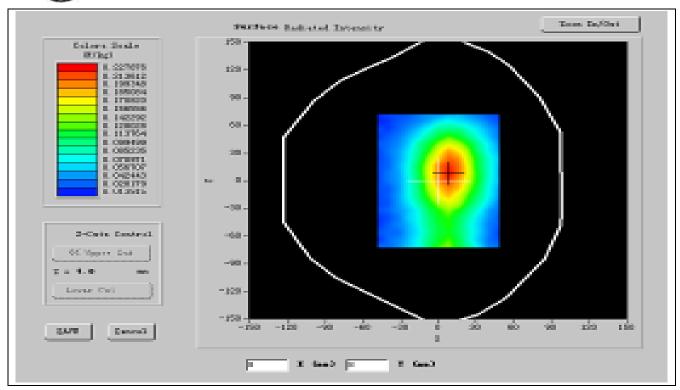
Compliance Certification Services Inc. Report No: KS110120B01-SF

Signal Generator	Agilent (E8257C,	Calibration Due: 03/24/2012
•	SN:MY43321570)	
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A,	Calibration Due: 03/24/2012
	SN:QB41292714)	
Probe	Antennessa	Calibration Due: 05/10/2011
	(SN:SN_1109_EP_100)	
DIPOLE 835	Antennessa (DIPI32,SN	Calibration Due: 02/09/2012
	48/05)	
Phantom	Antennessa	Calibration Due: N/A
	(SN:SN41_05_SAM29)	
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

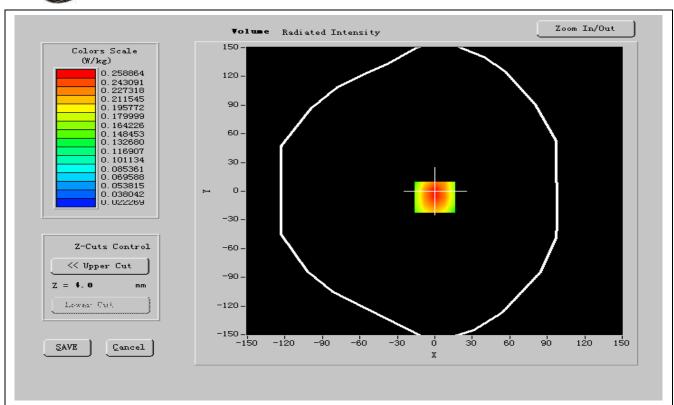
C. SAR Measurement Results

Frequency (MHz)	824.200012
Relative permitivity (real part)	57.245000
Relative permitivity (imaginary part)	21.654150
Conductivity (S/m)	0.964112
Variation (%)	-2.680000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.00, 19.88, 27.77
Crest factor:	1:8





VOLUME SAR



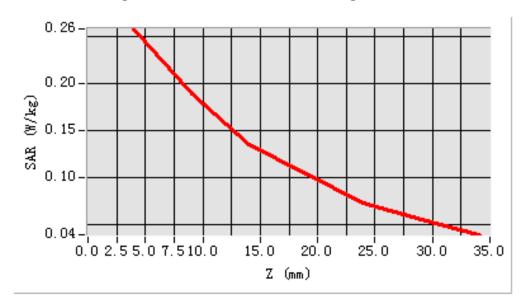
SAR 10g (W/Kg)	0.125436
SAR 1g (W/Kg)	0.216872

Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.0540	0.4242	0.4464	0.4020	0.0624	0.0454
(W/kg)	0.0000	0.2512	0.1242	0.1464	0.1020	0.0631	0.0454



SAR, Z Axis Scan (X = 0, Y = -6)





Report No: KS110120B01-SF

Date of measurement: 04/14/2011

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max		
Phantom	Body		
Device Position	FrontSide toward phantom		
Band	GSM850		
Channels	Middle		
Signal	GSM		

B. Instrumentations.

HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
SN:375052-AA1)	
R&S (CMU200,	Calibration Due: 05/25/2011
SN:B23-03291)	
Agilent(E5071B,	Calibration Due: 03/24/2012
MY42301382)	
Keithley (2000,	Calibration Due: 05/25/2011
SN:1015843)	
Agilent (E8257C,	Calibration Due: 03/24/2012
SN:MY43321570)	
Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
SN:110405)	
Agilent (E4416A,	Calibration Due: 03/24/2012
SN:QB41292714)	
Antennessa	Calibration Due: 05/10/2011
(SN:SN_1109_EP_100)	
Antennessa (DIPI32,SN	Calibration Due: 02/09/2012
48/05)	
Antennessa	Calibration Due: N/A
(SN:SN41_05_SAM29)	
Antennessa	Calibration Due: N/A
	SN:375052-AA1) R&S (CMU200, SN:B23-03291) Agilent(E5071B, MY42301382) Keithley (2000, SN:1015843) Agilent (E8257C, SN:MY43321570) Mini-Circuits (ZHL-42, SN:110405) Agilent (E4416A, SN:QB41292714) Antennessa (SN:SN_1109_EP_100) Antennessa (DIPI32,SN 48/05) Antennessa (SN:SN41_05_SAM29)

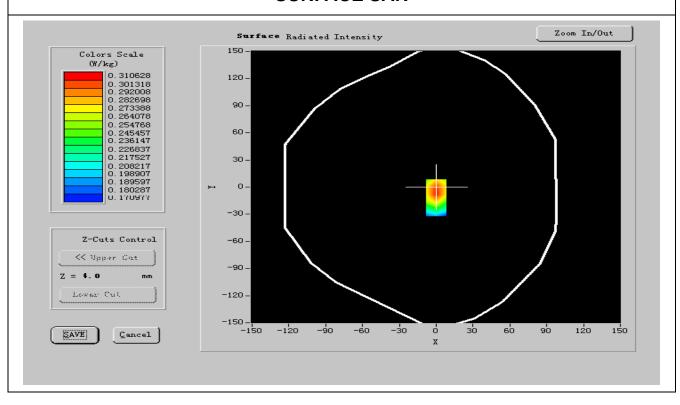


Measurement SW OPEN SAR V2.1 Calibration Due: N/A

Report No: KS110120B01-SF

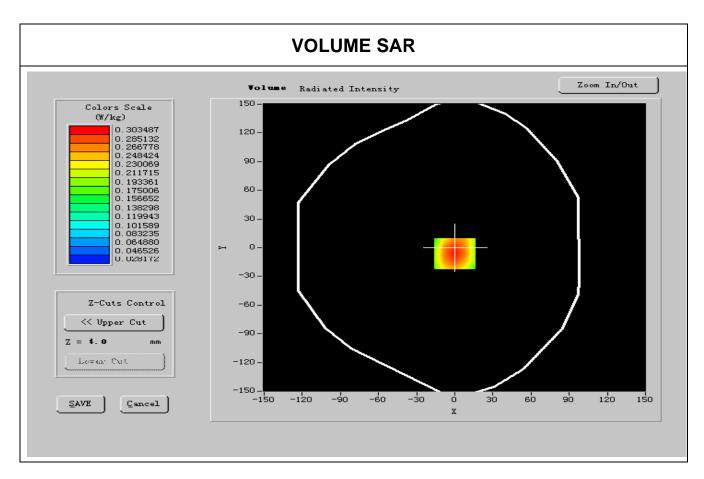
C. SAR Measurement Results

Frequency (MHz)	836.600024	
Relative permitivity (real part)	56.1561935	
Relative permitivity (imaginary part)	21.866249	
Conductivity (S/m)	0.9256034	
Variation (%)	-2.340000	
Ambient Temperature:	21 °C	
Liquid Temperature:	20 °C	
ConvF:	20.00, 19.88, 27.77	
Crest factor:	1:8	









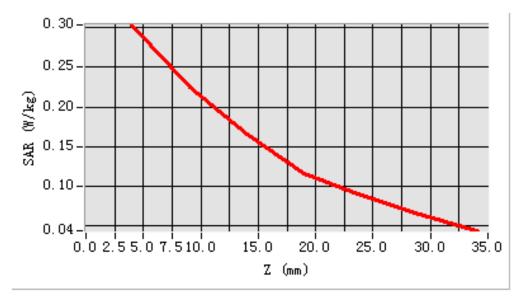
SAR 10g (W/Kg)	0.210480
SAR 1g (W/Kg)	0.308114

Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0 0000	0.3900	0.2342	0.1664	0.4420	0.007	0.0422
(W/kg)	0.0000	0.2890	0.2342	0.1664	0.1120	0.0887	0.0422









Report No: KS110120B01-SF

Date of measurement: 04/14/2011

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max		
Phantom	Body		
Device Position	FrontSide toward phantom		
Band	GSM850		
Channels	High		
Signal	GSM		

B. Instrumentations.

HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
SN:375052-AA1)	
R&S (CMU200,	Calibration Due: 05/25/2011
SN:B23-03291)	
Agilent(E5071B,	Calibration Due: 03/24/2012
MY42301382)	
Keithley (2000,	Calibration Due: 05/25/2011
SN:1015843)	
Agilent (E8257C,	Calibration Due: 03/24/2012
SN:MY43321570)	
Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
SN:110405)	
Agilent (E4416A,	Calibration Due: 03/24/2012
SN:QB41292714)	
Antennessa	Calibration Due: 05/10/2011
(SN:SN_1109_EP_100)	
Antennessa (DIPI32,SN	Calibration Due: 02/09/2012
48/05)	
Antennessa	Calibration Due: N/A
(SN:SN41_05_SAM29)	
Antennessa	Calibration Due: N/A
	SN:375052-AA1) R&S (CMU200, SN:B23-03291) Agilent(E5071B, MY42301382) Keithley (2000, SN:1015843) Agilent (E8257C, SN:MY43321570) Mini-Circuits (ZHL-42, SN:110405) Agilent (E4416A, SN:QB41292714) Antennessa (SN:SN_1109_EP_100) Antennessa (DIPI32,SN 48/05) Antennessa (SN:SN41_05_SAM29)

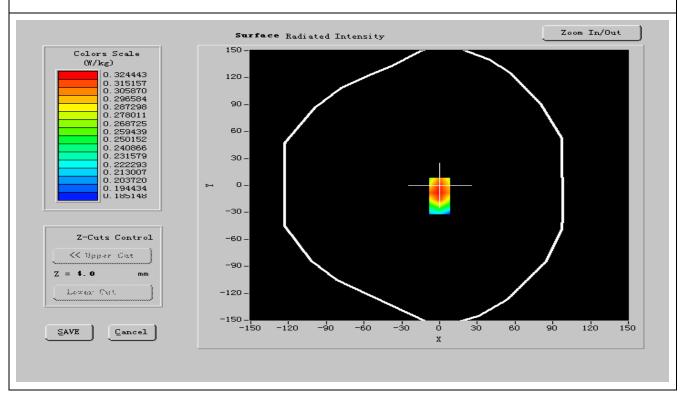


Measurement SW OPEN SAR V2.1 Calibration Due: N/A

Report No: KS110120B01-SF

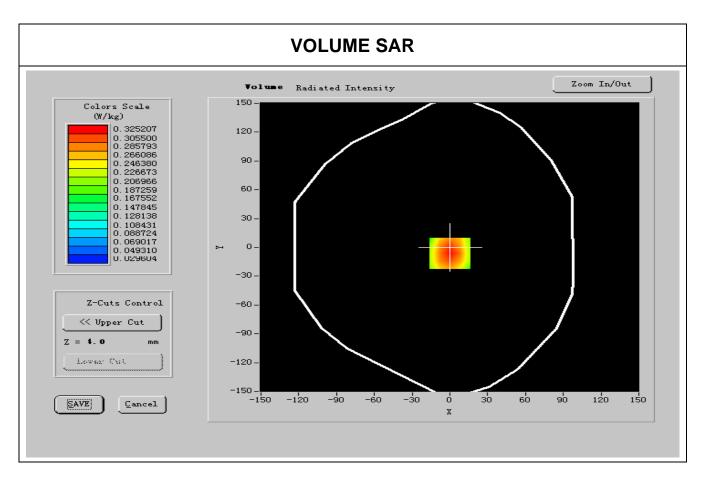
C. SAR I	Measurement	Results
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Frequency (MHz)	848.799976	
Relative permitivity (real part)	55.978121	
Relative permitivity (imaginary part)	21.726601	
Conductivity (S/m)	0.963225	
Variation (%)	-2.340000	
Ambient Temperature:	21 °C	
Liquid Temperature:	20 °C	
ConvF:	20.00, 19.88, 27.77	
Crest factor:	1:8	









SAR 10g (W/Kg)	0.224468
SAR 1g (W/Kg)	0.342540

Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3063	0.2322	0.1674	0.1420	0.1800	0.0573
(W/kg)							





