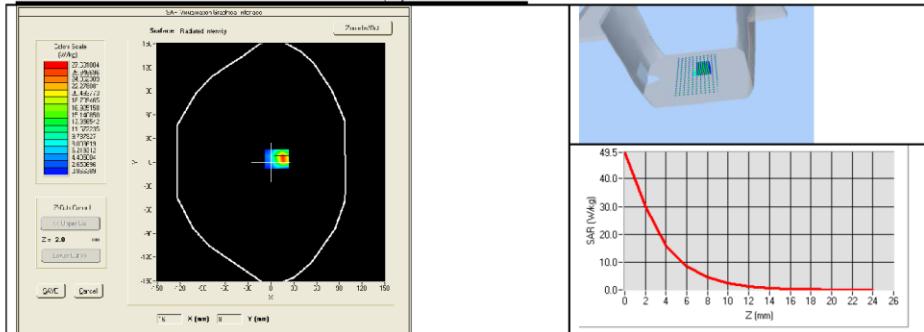



**SAR MEASUREMENT PLOTS @ 5400 MHz**



**7.3 BODY LIQUID MEASUREMENT**

Frequency MHz	Relative permittivity ( $\epsilon_r'$ )		Conductivity ( $\sigma$ ) S/m	
	required	measured	required	measured
5200	49.0 $\pm$ 10 %	PASS	5.30 $\pm$ 10 %	PASS
5300	48.9 $\pm$ 10 %		5.42 $\pm$ 10 %	
5400	48.7 $\pm$ 10 %	PASS	5.53 $\pm$ 10 %	PASS
5500	48.6 $\pm$ 10 %		5.65 $\pm$ 10 %	
5600	48.5 $\pm$ 10 %	PASS	5.77 $\pm$ 10 %	PASS
5800	48.2 $\pm$ 10 %	PASS	6.00 $\pm$ 10 %	PASS

**7.4 SAR MEASUREMENT RESULT WITH BODY LIQUID**

Software	OPENSAR V4
Phantom	SN 20/09 SAM71
Probe	SN 18/11 EPG122
Liquid	Body Liquid Values 5200 MHz: $\epsilon_r'$ :49.02 sigma : 5.46 Body Liquid Values 5400 MHz: $\epsilon_r'$ :49.55 sigma : 5.53 Body Liquid Values 5600 MHz: $\epsilon_r'$ :47.60 sigma : 5.77 Body Liquid Values 5800 MHz: $\epsilon_r'$ :47.81 sigma : 6.12
Distance between dipole waveguide and liquid	0 mm
Area scan resolution	$dx=8mm/dy=8mm$
Zoon Scan Resolution	$dx=4mm/dy=4m/dz=2mm$
Frequency	5200 MHz 5400 MHz 5600 MHz 5800 MHz
Input power	20 dBm
Liquid Temperature	21 °C
Lab Temperature	21 °C
Lab Humidity	45 %

Frequency (MHz)	1 g SAR (W/kg)	10 g SAR (W/kg)
	measured	measured
5200	151.71 (15.17)	53.57 (5.36)
5400	158.06 (15.81)	55.25 (5.53)
5600	168.19 (16.82)	58.19 (5.82)
5800	171.13 (17.11)	58.47 (5.85)

Page: 10/13

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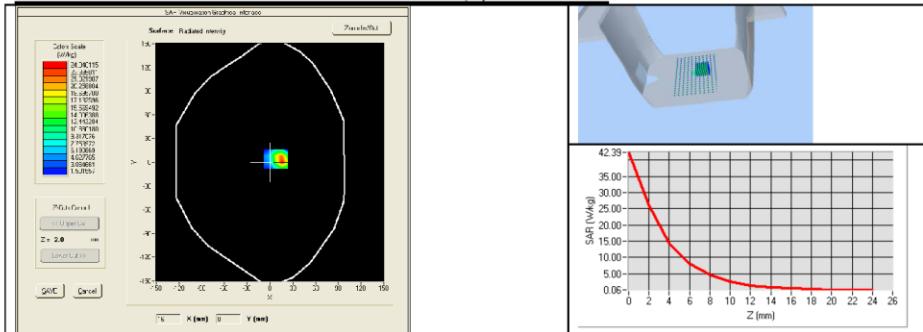
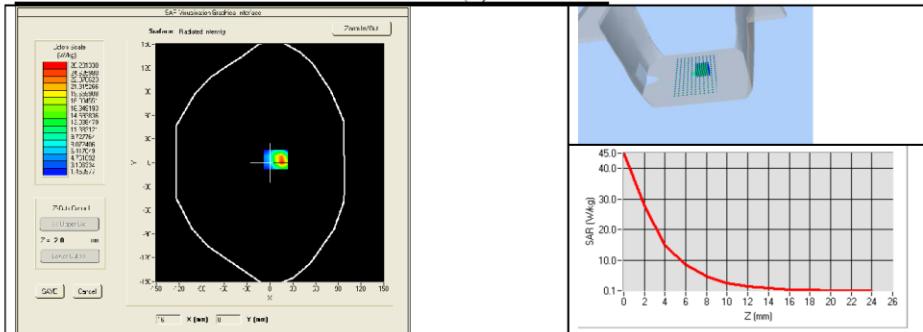
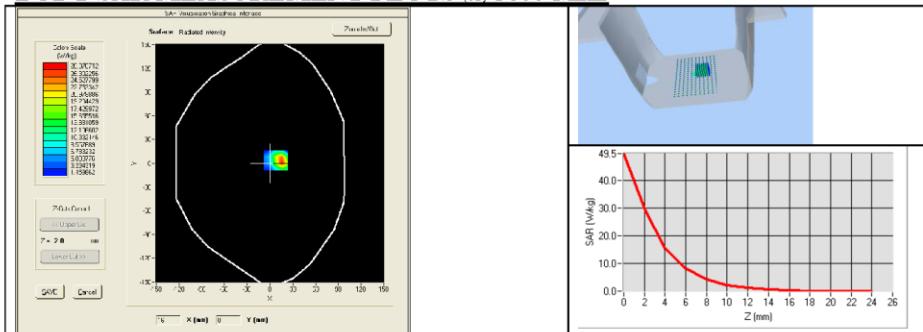
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**BODY SAR MEASUREMENT PLOTS @ 5200 MHz**

**BODY SAR MEASUREMENT PLOTS @ 5400 MHz**

**BODY SAR MEASUREMENT PLOTS @ 5600 MHz**


Page: 11/13

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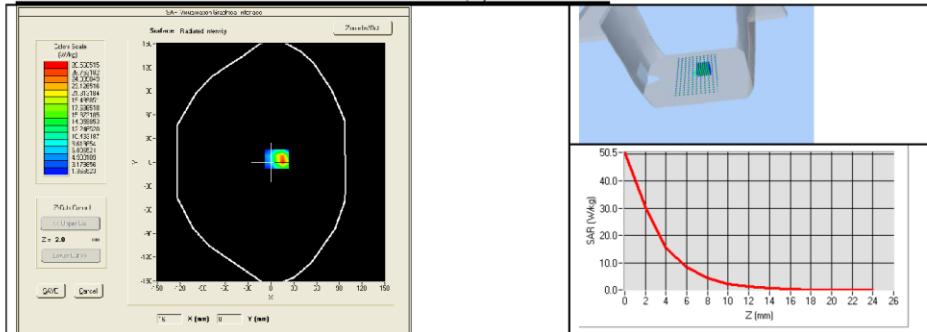
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**BODY SAR MEASUREMENT PLOTS @ 5800 MHz**


Page: 12/13

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## 8 LIST OF EQUIPMENT

Equipment Summary Sheet				
Equipment Description	Manufacturer / Model	Identification No.	Current Calibration Date	Next Calibration Date
Flat Phantom	MVG	SN-20/09-SAM71	Validated. No cal required.	Validated. No cal required.
COMOSAR Test Bench	Version 3	NA	Validated. No cal required.	Validated. No cal required.
Network Analyzer	Rhode & Schwarz ZVA	SN100132	02/2019	02/2022
Calipers	Carrera	CALIPER-01	01/2017	01/2020
Reference Probe	MVG	EPG122 SN 18/11	10/2018	10/2019
Multimeter	Keithley 2000	1188656	01/2017	01/2020
Signal Generator	Agilent E4438C	MY49070581	01/2017	01/2020
Amplifier	Aethercomm	SN 046	Characterized prior to test. No cal required.	Characterized prior to test. No cal required.
Power Meter	HP E4418A	US38261498	01/2017	01/2020
Power Sensor	HP ECP-E26A	US37181460	01/2017	01/2020
Directional Coupler	Narda 4216-20	01386	Characterized prior to test. No cal required.	Characterized prior to test. No cal required.
Temperature and Humidity Sensor	Control Company	150798832	11/2017	11/2020

Page: 13/13

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