

11. SYSTEM VERIFICATION

Tissue Verification

Table 12.1 Simulated Tissue Verification

MEASURED TISSUE PARAMETERS									
Date(s)	06/24/02	1900MHz Brain		1900MHz Muscle		2450MHz Brain		2450MHz Muscle	
Liquid Temperature (°C)	23.5	Target	Measured	Target	Measured	Target	Measured	Target	Measured
Dielectric Constant: ϵ		40.00	N / A	53.30	N / A	39.20	39.4	52.70	52.00
Conductivity: σ		1.400	N / A	1.520	N / A	1.800	1.88	1.950	1.920

Test System Validation

Prior to assessment, the system is verified to the $\pm 10\%$ of the specifications at 2450MHz by using the system validation kit(s). (Graphic Plots Attached)

Table 12.2 System Validation

	SYSTEM DIPOLE VALIDATION TARGET & MEASURED			
System Validation Kit: D-2450S, S/N: 105	2450MHz Brain	Targeted SAR _{1g} (mW/g) 13.100	Measured SAR _{1g} (mW/g) 12.94	Deviation (%) - 1.22

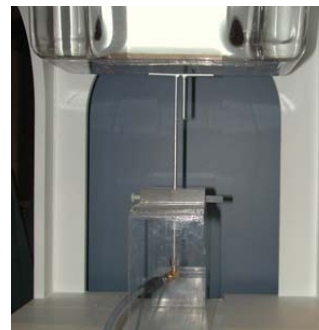
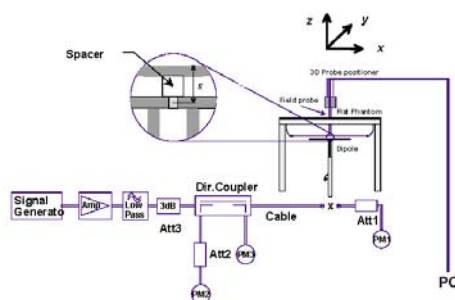


Figure 12.1 Dipole Validation Test Setup

PCTEST™ SAR TEST REPORT	PCTEST Engineering Laboratory, Inc.	FCC CERTIFICATION	SAMSUNG	Reviewed by: Quality Manager
SAR Filename: SAR.220620324.A3L	Test Dates: June 25, 2002	EUT Type: HomePAD Refrigerator	FCC ID: A3LSWP1200	Page 13 of 18