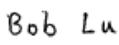


APPENDIX E RETURN LOSS&IMPEDANCE MEASUREMENT

Equipment Details:

Description: Dipole
 Manufacturer: Speag
 Model Number: D2450V2
 Serial Number: 1103
 Calibration Date: 2024/03/26
 Calibrated By: Bob Lu
 Signature: 

All Calibration have been conducted in the closed laboratory facility: Lab Temperature 18°C-25°C and humidity < 70%

The calibration methods and procedures used were as detailed in:

KDB Publication Number: "KDB865664 D01 SAR Measurement 100 MHz to 6 GHz"

1. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
2. The measurement of real or imaginary parts of impedance does not deviate more than 5Ω from the previous measurement.

Calibrated Equipment:

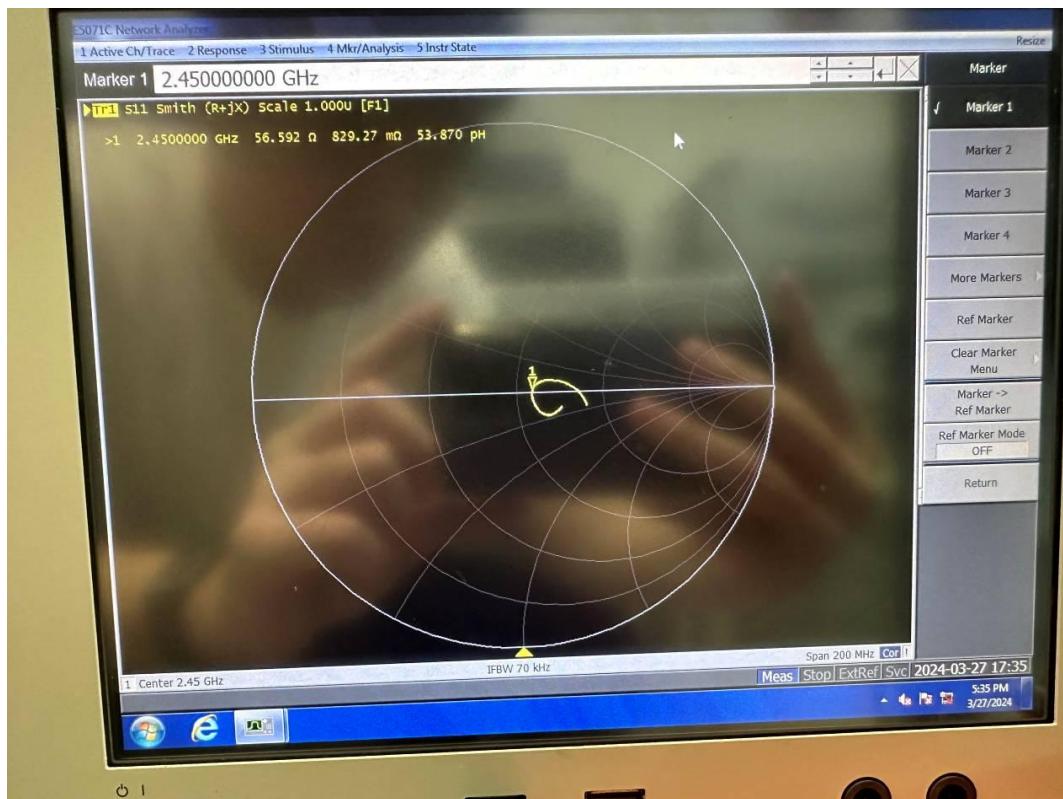
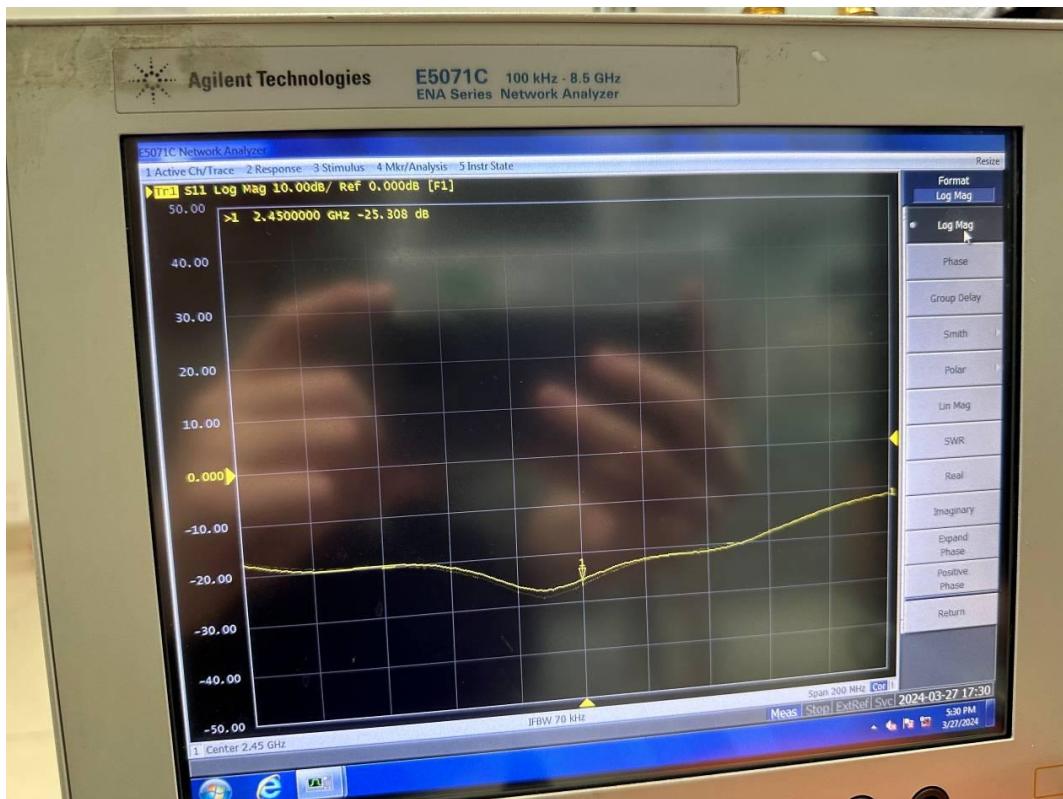
Equipment	Model	S/N	Calibration Date	Calibration Due Date
Simulated Tissue Liquid Head	HBBL600-10000V6	2200808-2	Each Time	
SAM Twin Phantom	SAM-Twin V8.0	1962	NCR	NCR
Network Analyzer	E5071C	SER MY46519680	2023/06/08	2024/06/07
Network Analyzer Calibration Kit	50 Ω	51026	NCR	NCR

Test Data:

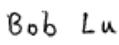
Frequency (MHz)	Simulated Liquid	Parameter	Measured Value	Target Value	Deviation	Reference Range	Results
2450	Head	Return Loss	25.308 dB	24.161 dB	4.747 %	±20%; ≥20dB	Pass
		Real Impedance	56.592 Ω	53.467 Ω	3.125 Ω	≤ 5 Ω	Pass
		Imaginary Impedance	0.829 Ω	5.400 Ω	-4.571 Ω	≤ 5 Ω	Pass

Note: Return Loss Deviation = (Measured-Target)/Target×100%

Dipole, 2450MHz, 1103



Equipment Details:

Description: Dipole
 Manufacturer: Speag
 Model Number: D5GHzV2
 Serial Number: 1374
 Calibration Date: 2024/03/26
 Calibrated By: Bob Lu
 Signature: 

All Calibration have been conducted in the closed laboratory facility: Lab Temperature 18 °C-25 °C and humidity < 70%

The calibration methods and procedures used were as detailed in:

KDB Publication Number: "KDB865664 D01 SAR Measurement 100 MHz to 6 GHz"

3. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
4. The measurement of real or imaginary parts of impedance does not deviate more than 5Ω from the previous measurement.

Calibrated Equipment:

Equipment	Model	S/N	Calibration Date	Calibration Due Date
Simulated Tissue Liquid Head	HBBL600-10000V6	2200808-2	Each Time	
SAM Twin Phantom	SAM-Twin V8.0	1962	NCR	NCR
Network Analyzer	E5071C	SER MY46519680	2023/06/08	2024/06/07
Network Analyzer Calibration Kit	50 Ω	51026	NCR	NCR

Test Data:

Frequency (MHz)	Simulated Liquid	Parameter	Measured Value	Target Value	Deviation	Reference Range	Results
5250	Head	Return Loss	22.303 dB	23.781 dB	-6.215 %	±20%; ≥20dB	Pass
		Real Impedance	44.252 Ω	45.776 Ω	1.524 Ω	≤ 5 Ω	Pass
		Imaginary Impedance	-2.702 Ω	-4.545 Ω	1.843 Ω	≤ 5 Ω	Pass

Note: Return Loss Deviation = (Measured-Target)/Target×100%

Dipole, 5250MHz, 1374

