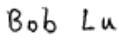


**Equipment Details:**

Description: Dipole  
 Manufacturer: Speag  
 Model Number: D1750V2  
 Serial Number: 1199  
 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%

**Calibrated Equipment:**

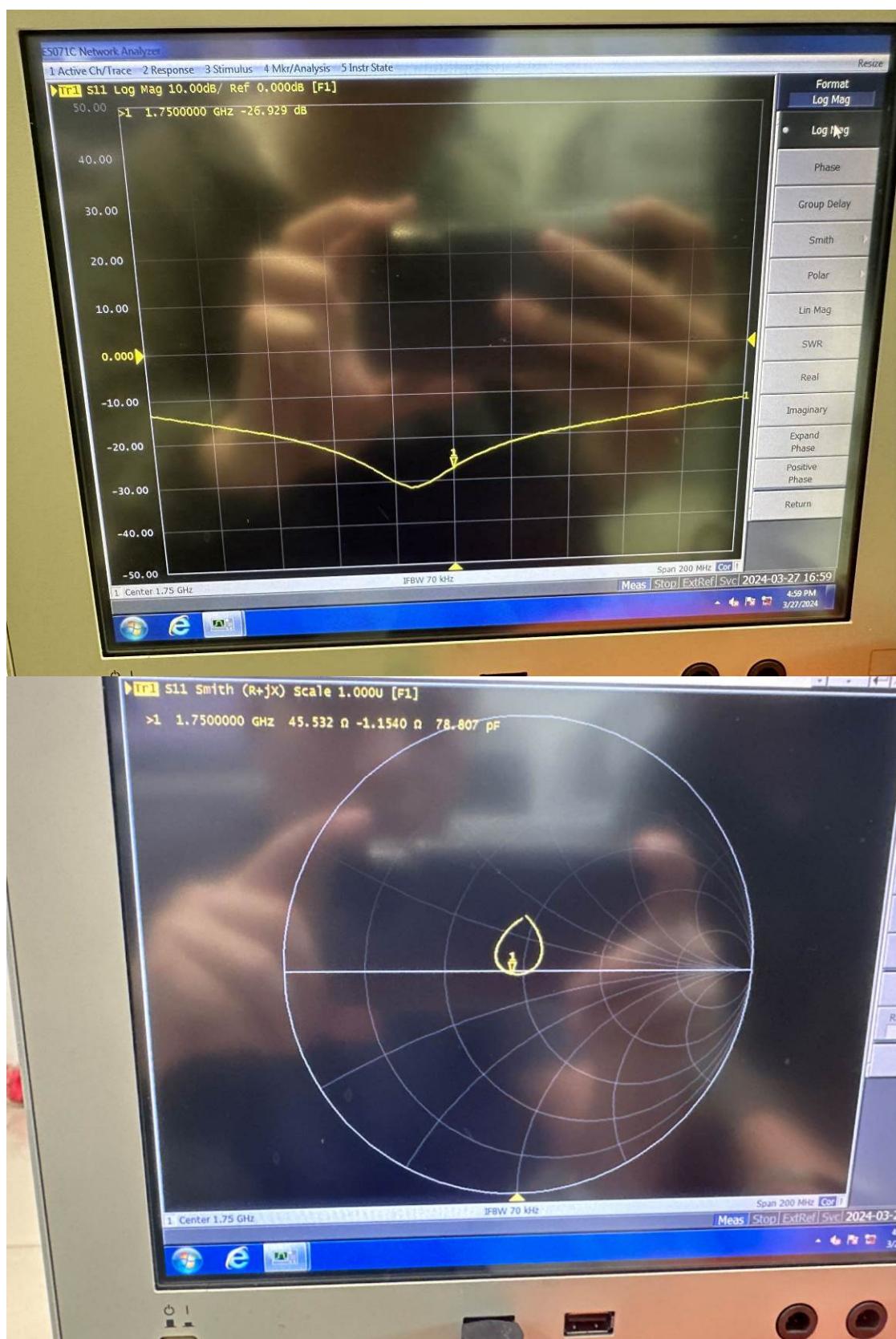
Equipment	Model	S/N	Calibration Date	Calibration Due Date
Simulated Tissue Liquid Head	HBBL600-10000V6	2200808-2	Each Time	
SAM Twin Phantom	SAM-Twin V8.0	1962	NCR	NCR
Network Analyzer	E5071C	SER MY46519680	2023/06/08	2024/06/07
Network Analyzer Calibration Kit	50 Ω	51026	NCR	NCR

**Test Data:**

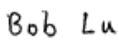
Frequency (MHz)	Simulated Liquid	Parameter	Measured Value	Target Value	Deviation	Reference Range	Results
1750	Head	Return Loss	26.929 dB	26.017 dB	3.505%	±20%; ≥20dB	Pass
		Real Impedance	45.532 Ω	46.939 Ω	1.407 Ω	≤ 5 Ω	Pass
		Imaginary Impedance	-1.154 Ω	3.765 Ω	4.919 Ω	≤ 5 Ω	Pass

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

## Dipole, 1750MHz, 1199



**Equipment Details:**

Description: Dipole  
 Manufacturer: Speag  
 Model Number: D1750V2  
 Serial Number: 1199  
 Calibration Date: 2025/03/26  
 Calibrated By: Bob Lu  
 Signature: 

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

**Calibrated Equipment:**

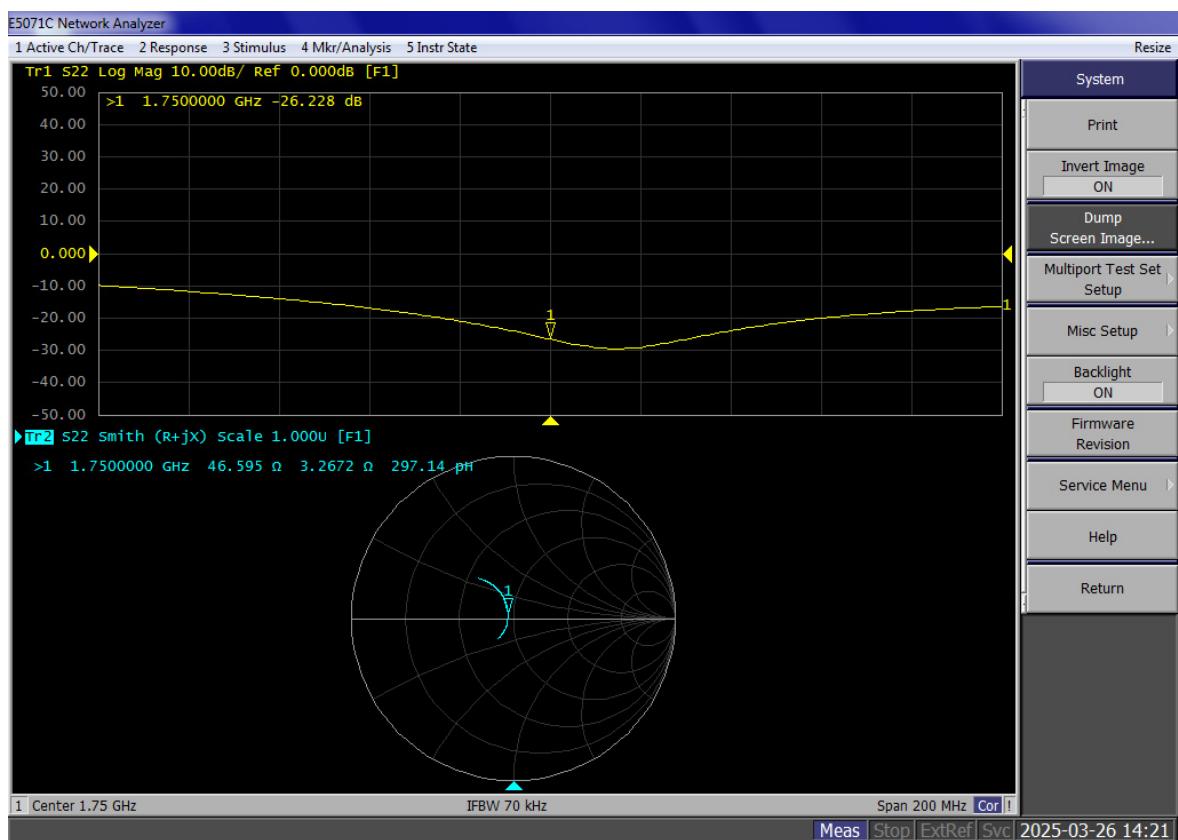
Equipment	Model	S/N	Calibration Date	Calibration Due Date
Simulated Tissue Liquid Head	HBBL600-10000V6	2200808-2	Each Time	
SAM Twin Phantom	SAM-Twin V8.0	1962	NCR	NCR
Network Analyzer	E5071C	SER MY46519680	2024/05/21	2025/05/20
Network Analyzer Calibration Kit	50 Ω	51026	NCR	NCR

**Test Data:**

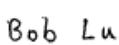
Frequency (MHz)	Simulated Liquid	Parameter	Measured Value	Target Value	Deviation	Reference Range	Results
1750	Head	Return Loss	26.228 dB	26.017 dB	0.811 %	±20%; ≥20dB	Pass
		Real Impedance	46.595 Ω	46.939 Ω	0.344 Ω	≤ 5 Ω	Pass
		Imaginary Impedance	3.267 Ω	3.765 Ω	0.498 Ω	≤ 5 Ω	Pass

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

## Dipole, 1750MHz, 1199



**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%

**Calibrated Equipment:**

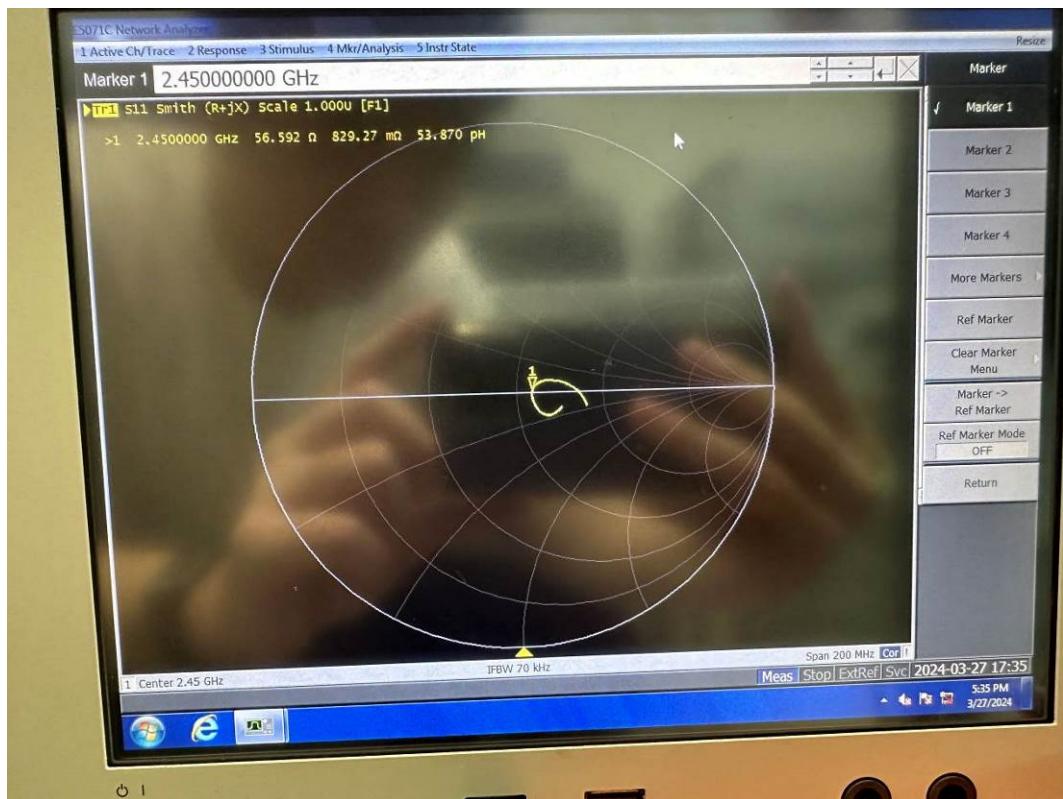
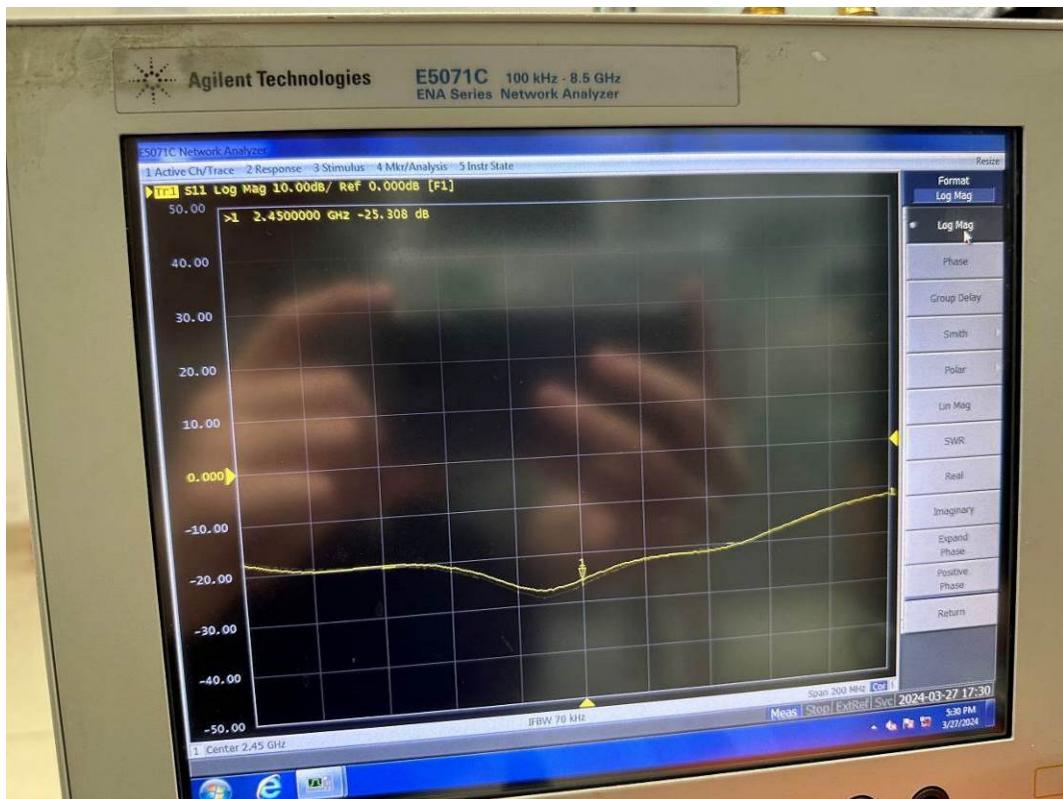
Equipment	Model	S/N	Calibration Date	Calibration Due Date
Simulated Tissue Liquid Head	HBBL600-10000V6	2200808-2	Each Time	
SAM Twin Phantom	SAM-Twin V8.0	1962	NCR	NCR
Network Analyzer	E5071C	SER MY46519680	2023/06/08	2024/06/07
Network Analyzer Calibration Kit	50 Ω	51026	NCR	NCR

**Test Data:**

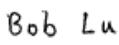
Frequency (MHz)	Simulated Liquid	Parameter	Measured Value	Target Value	Deviation	Reference Range	Results
2450	Head	Return Loss	25.308 dB	24.161 dB	4.747 %	±20%; ≥20dB	Pass
		Real Impedance	56.592 Ω	53.467 Ω	3.125 Ω	≤ 5 Ω	Pass
		Imaginary Impedance	0.829 Ω	5.400 Ω	-4.571 Ω	≤ 5 Ω	Pass

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

## Dipole, 2450MHz, 1103



**Equipment Details:**

Description: Dipole  
 Manufacturer: Speag  
 Model Number: D2450V2  
 Serial Number: 1103  
 Calibration Date: 2025/03/26  
 Calibrated By: Bob Lu  
 Signature: 

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

**Calibrated Equipment:**

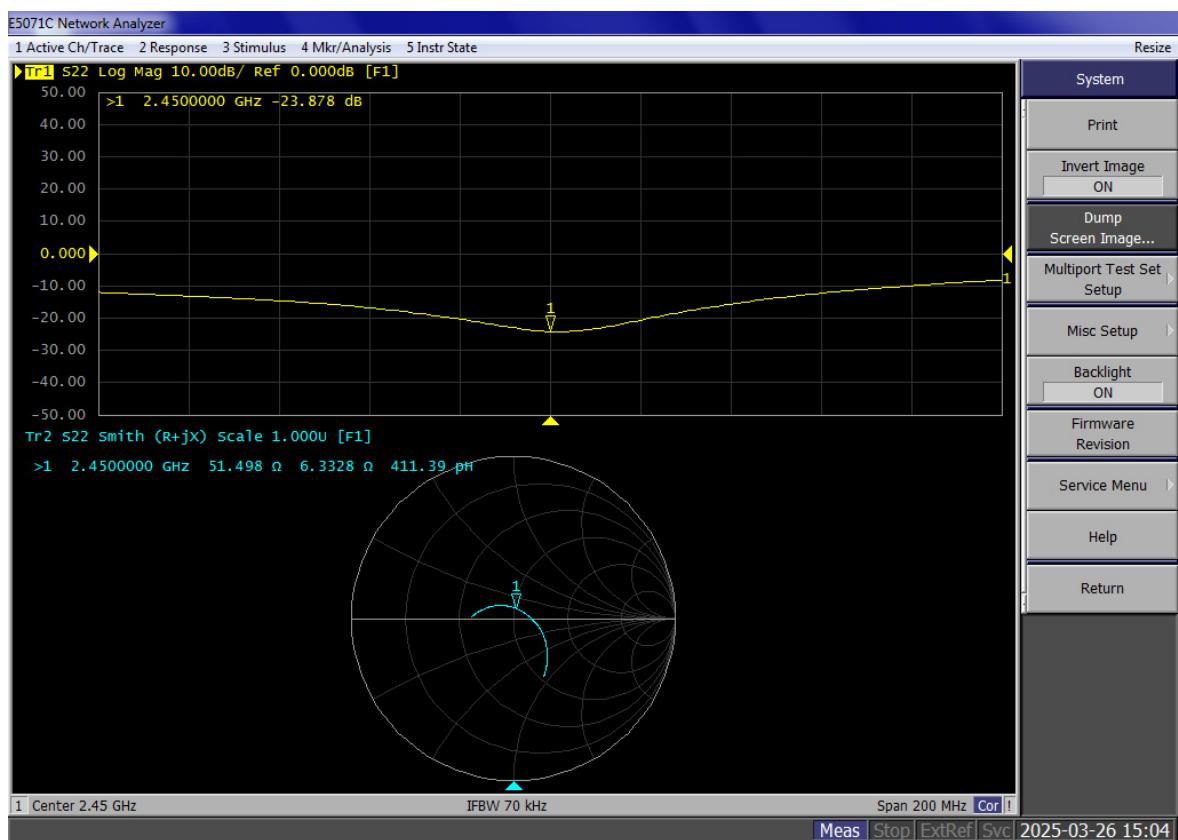
Equipment	Model	S/N	Calibration Date	Calibration Due Date
Simulated Tissue Liquid Head	HBBL600-10000V6	2200808-2	Each Time	
SAM Twin Phantom	SAM-Twin V8.0	1962	NCR	NCR
Network Analyzer	E5071C	SER MY46519680	2024/05/21	2025/05/20
Network Analyzer Calibration Kit	50 Ω	51026	NCR	NCR

**Test Data:**

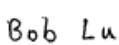
Frequency (MHz)	Simulated Liquid	Parameter	Measured Value	Target Value	Deviation	Reference Range	Results
2450	Head	Return Loss	23.878 dB	24.161 dB	-1.171 %	±20%; ≥20dB	Pass
		Real Impedance	51.498 Ω	53.467 Ω	1.969 Ω	≤ 5 Ω	Pass
		Imaginary Impedance	6.333 Ω	5.400 Ω	0.933 Ω	≤ 5 Ω	Pass

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

## Dipole, 2450MHz, 1103



**Equipment Details:**

Description: Dipole  
 Manufacturer: Speag  
 Model Number: D2600V2  
 Serial Number: 1207  
 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%

**Calibrated Equipment:**

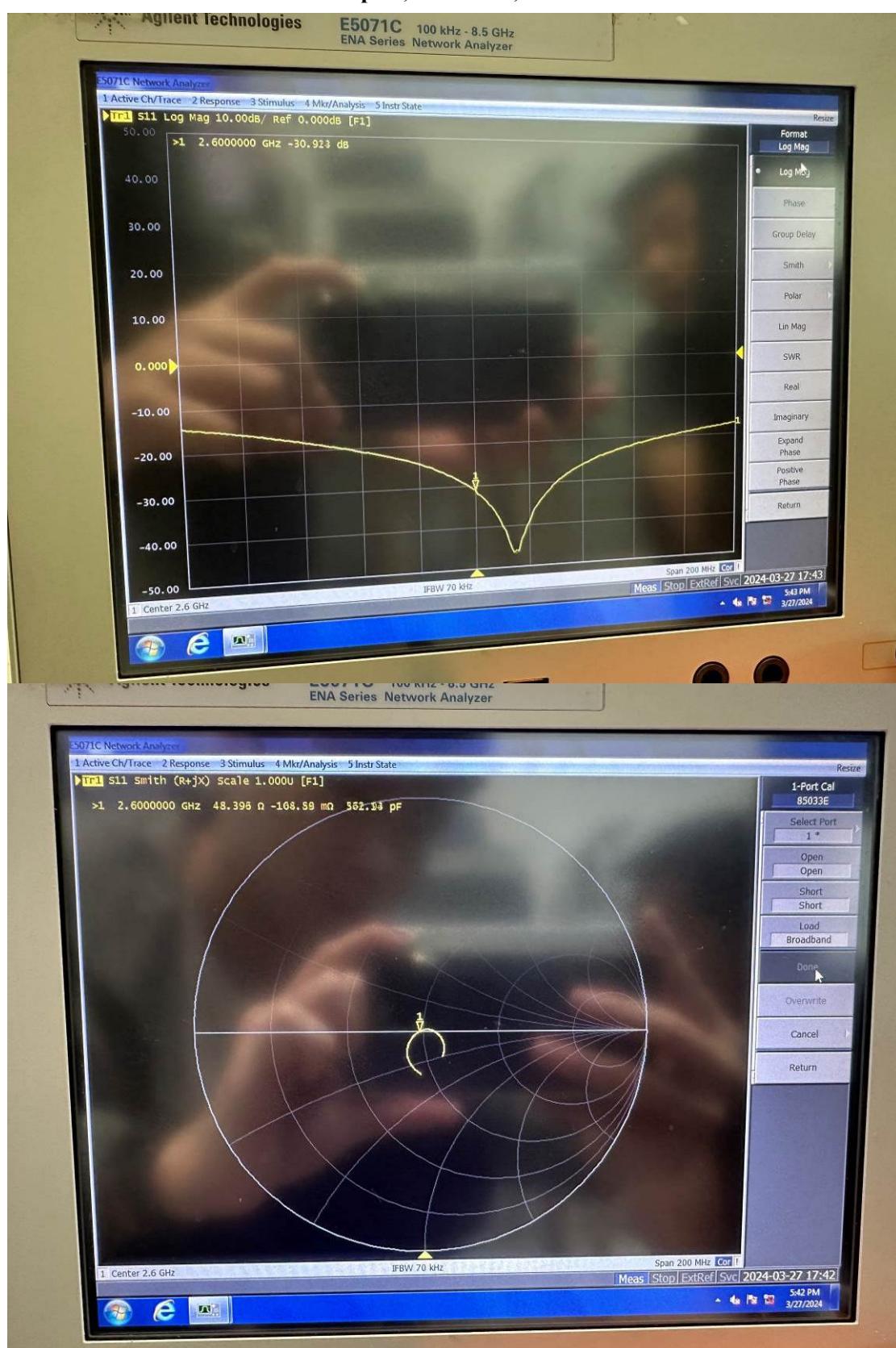
Equipment	Model	S/N	Calibration Date	Calibration Due Date
Simulated Tissue Liquid Head	HBBL600-10000V6	2200808-2	Each Time	
SAM Twin Phantom	SAM-Twin V8.0	1962	NCR	NCR
Network Analyzer	E5071C	SER MY46519680	2023/06/08	2024/06/07
Network Analyzer Calibration Kit	50 Ω	51026	NCR	NCR

**Test Data:**

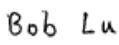
Frequency (MHz)	Simulated Liquid	Parameter	Measured Value	Target Value	Deviation	Reference Range	Results
2600	Head	Return Loss	30.923 dB	27.361 dB	13.019%	±20%; ≥20dB	Pass
		Real Impedance	48.396 Ω	45.943 Ω	2.453 Ω	≤ 5 Ω	Pass
		Imaginary Impedance	-0.109 Ω	-0.667 Ω	0.558 Ω	≤ 5 Ω	Pass

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

## Dipole, 2600MHz, 1207



**Equipment Details:**

Description: Dipole  
 Manufacturer: Speag  
 Model Number: D2600V2  
 Serial Number: 1207  
 Calibration Date: 2025/03/26  
 Calibrated By: Bob Lu  
 Signature: 

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

**Calibrated Equipment:**

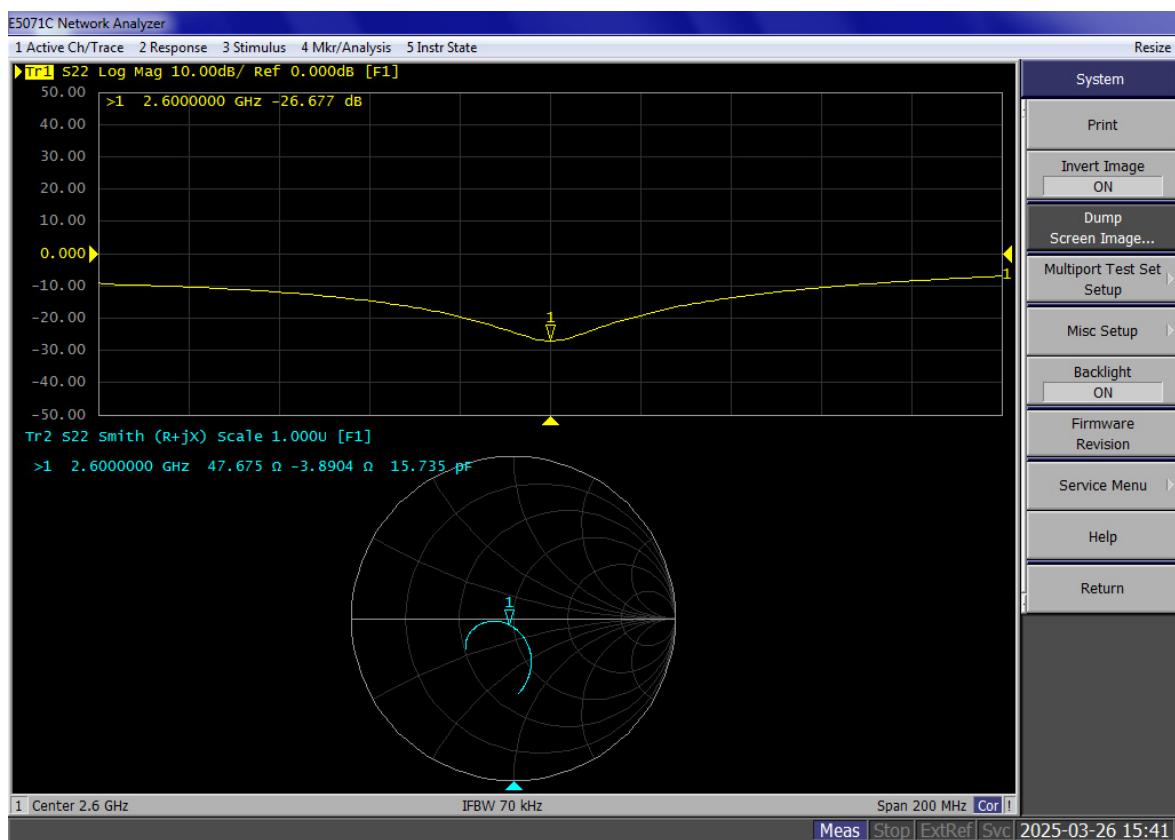
Equipment	Model	S/N	Calibration Date	Calibration Due Date
Simulated Tissue Liquid Head	HBBL600-10000V6	2200808-2	Each Time	
SAM Twin Phantom	SAM-Twin V8.0	1962	NCR	NCR
Network Analyzer	E5071C	SER MY46519680	2024/05/21	2025/05/20
Network Analyzer Calibration Kit	50 Ω	51026	NCR	NCR

**Test Data:**

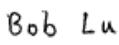
Frequency (MHz)	Simulated Liquid	Parameter	Measured Value	Target Value	Deviation	Reference Range	Results
2600	Head	Return Loss	26.677 dB	27.316 dB	-2.339 %	±20%; ≥20dB	Pass
		Real Impedance	47.675 Ω	45.943 Ω	1.732 Ω	≤ 5 Ω	Pass
		Imaginary Impedance	-3.890 Ω	-0.667 Ω	3.223 Ω	≤ 5 Ω	Pass

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

## Dipole, 2600MHz, 1207



**Equipment Details:**

Description: Dipole  
 Manufacturer: Speag  
 Model Number: D3500V2  
 Serial Number: 1113  
 Calibration Date: 2024/09/26  
 Calibrated By: Bob Lu  
 Signature: 

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

**Calibrated Equipment:**

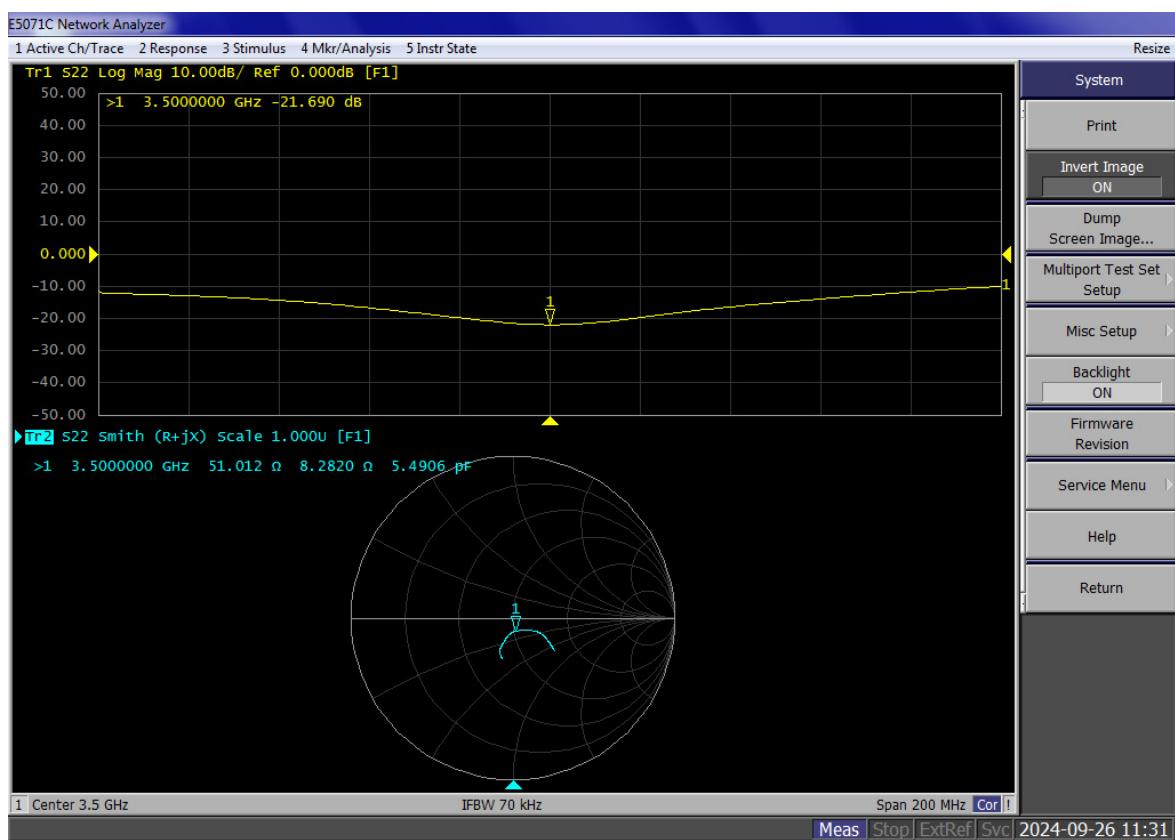
Equipment	Model	S/N	Calibration Date	Calibration Due Date
Simulated Tissue Liquid Head	HBBL600-10000V6	2200808-2	Each Time	
SAM Twin Phantom	SAM-Twin V8.0	1962	NCR	NCR
Network Analyzer	E5071C	SER MY46519680	2024/05/21	2025/05/20
Network Analyzer Calibration Kit	50 Ω	51026	NCR	NCR

**Test Data:**

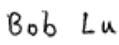
Frequency (MHz)	Simulated Liquid	Parameter	Measured Value	Target Value	Deviation	Reference Range	Results
3500	Head	Return Loss	21.690 dB	25.749 dB	-15.76%	±20%; ≥20dB	Pass
		Real Impedance	51.012 Ω	49.726 Ω	1.286 Ω	≤ 5 Ω	Pass
		Imaginary Impedance	8.282 Ω	5.144 Ω	3.138 Ω	≤ 5 Ω	Pass

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

## Dipole, 3500MHz, 1113



**Equipment Details:**

Description: Dipole  
 Manufacturer: Speag  
 Model Number: D3700V2  
 Serial Number: 1084  
 Calibration Date: 2024/09/26  
 Calibrated By: Bob Lu  
 Signature: 

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

**Calibrated Equipment:**

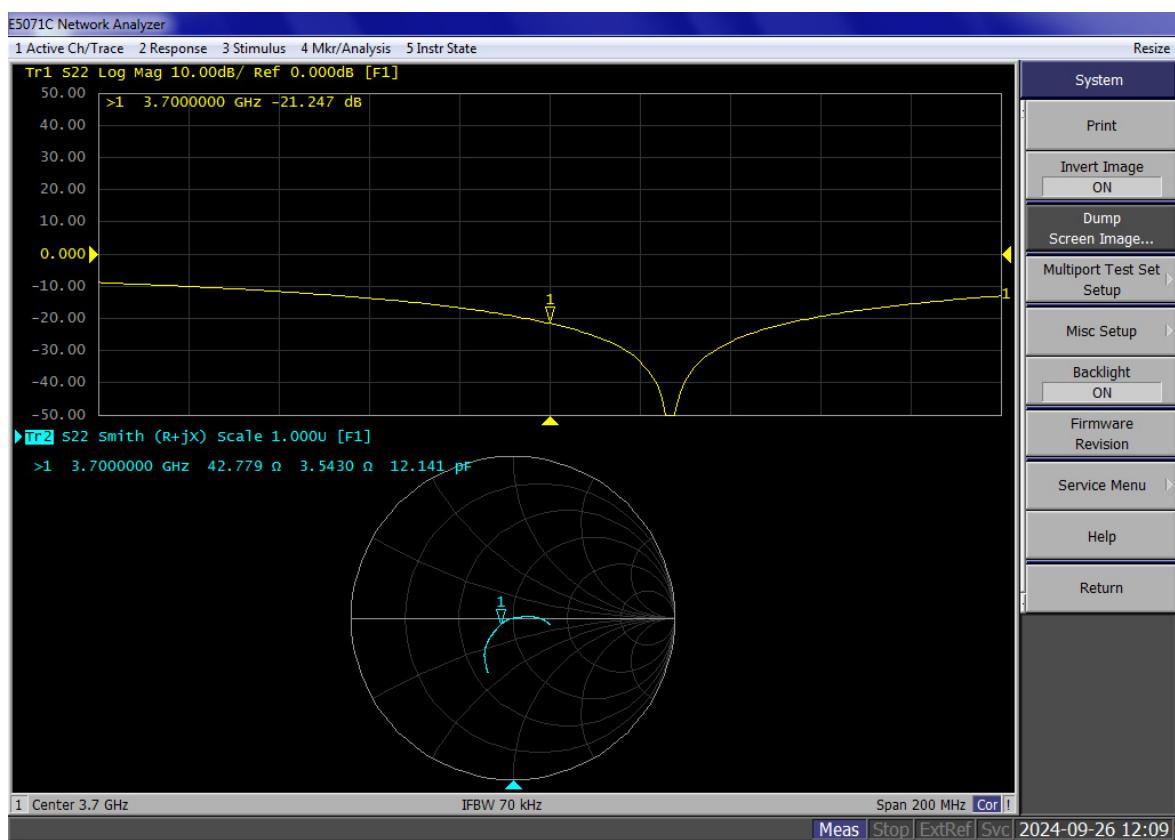
Equipment	Model	S/N	Calibration Date	Calibration Due Date
Simulated Tissue Liquid Head	HBBL600-10000V6	2200808-2	Each Time	
SAM Twin Phantom	SAM-Twin V8.0	1962	NCR	NCR
Network Analyzer	E5071C	SER MY46519680	2024/05/21	2025/05/20
Network Analyzer Calibration Kit	50 Ω	51026	NCR	NCR

**Test Data:**

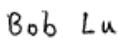
Frequency (MHz)	Simulated Liquid	Parameter	Measured Value	Target Value	Deviation	Reference Range	Results
3700	Head	Return Loss	21.247 dB	22.509 dB	-5.61%	±20%; ≥20dB	Pass
		Real Impedance	42.779 Ω	43.404 Ω	0.625 Ω	≤ 5 Ω	Pass
		Imaginary Impedance	3.543 Ω	2.341 Ω	1.202 Ω	≤ 5 Ω	Pass

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

## Dipole, 3700MHz, 1084



**Equipment Details:**

Description: Dipole  
 Manufacturer: Speag  
 Model Number: D3900V2  
 Serial Number: 1058  
 Calibration Date: 2024/09/26  
 Calibrated By: Bob Lu  
 Signature: 

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

**Calibrated Equipment:**

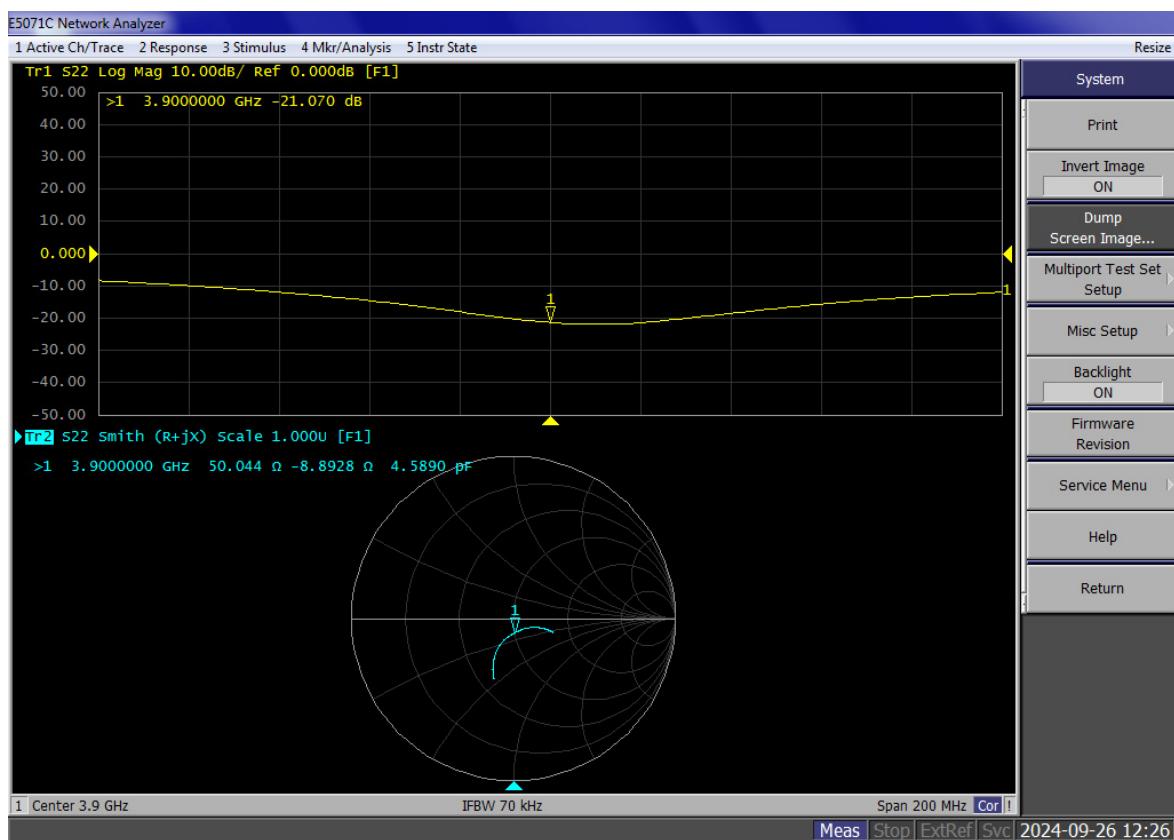
Equipment	Model	S/N	Calibration Date	Calibration Due Date
Simulated Tissue Liquid Head	HBBL600-10000V6	2200808-2	Each Time	
SAM Twin Phantom	SAM-Twin V8.0	1962	NCR	NCR
Network Analyzer	E5071C	SER MY46519680	2024/05/21	2025/05/20
Network Analyzer Calibration Kit	50 Ω	51026	NCR	NCR

**Test Data:**

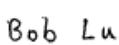
Frequency (MHz)	Simulated Liquid	Parameter	Measured Value	Target Value	Deviation	Reference Range	Results
3900	Head	Return Loss	21.070 dB	23.417 dB	-10.02%	±20%; ≥20dB	Pass
		Real Impedance	50.044 Ω	46.285 Ω	3.759 Ω	≤ 5 Ω	Pass
		Imaginary Impedance	-8.893 Ω	-5.342 Ω	3.551 Ω	≤ 5 Ω	Pass

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

## Dipole, 3900MHz, 1058



**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%

**Calibrated Equipment:**

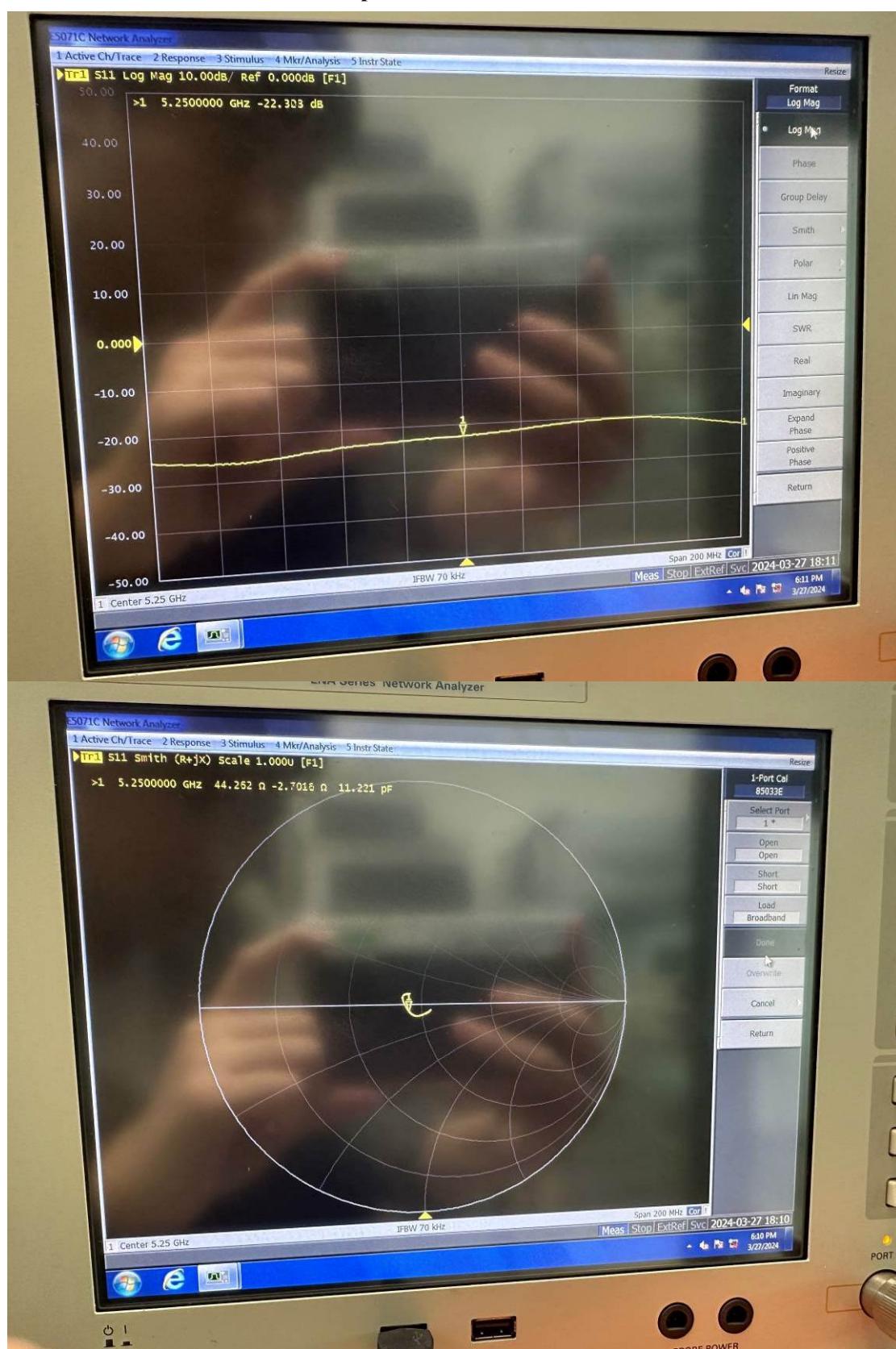
Equipment	Model	S/N	Calibration Date	Calibration Due Date
Simulated Tissue Liquid Head	HBBL600-10000V6	2200808-2	Each Time	
SAM Twin Phantom	SAM-Twin V8.0	1962	NCR	NCR
Network Analyzer	E5071C	SER MY46519680	2023/06/08	2024/06/07
Network Analyzer Calibration Kit	50 Ω	51026	NCR	NCR

**Test Data:**

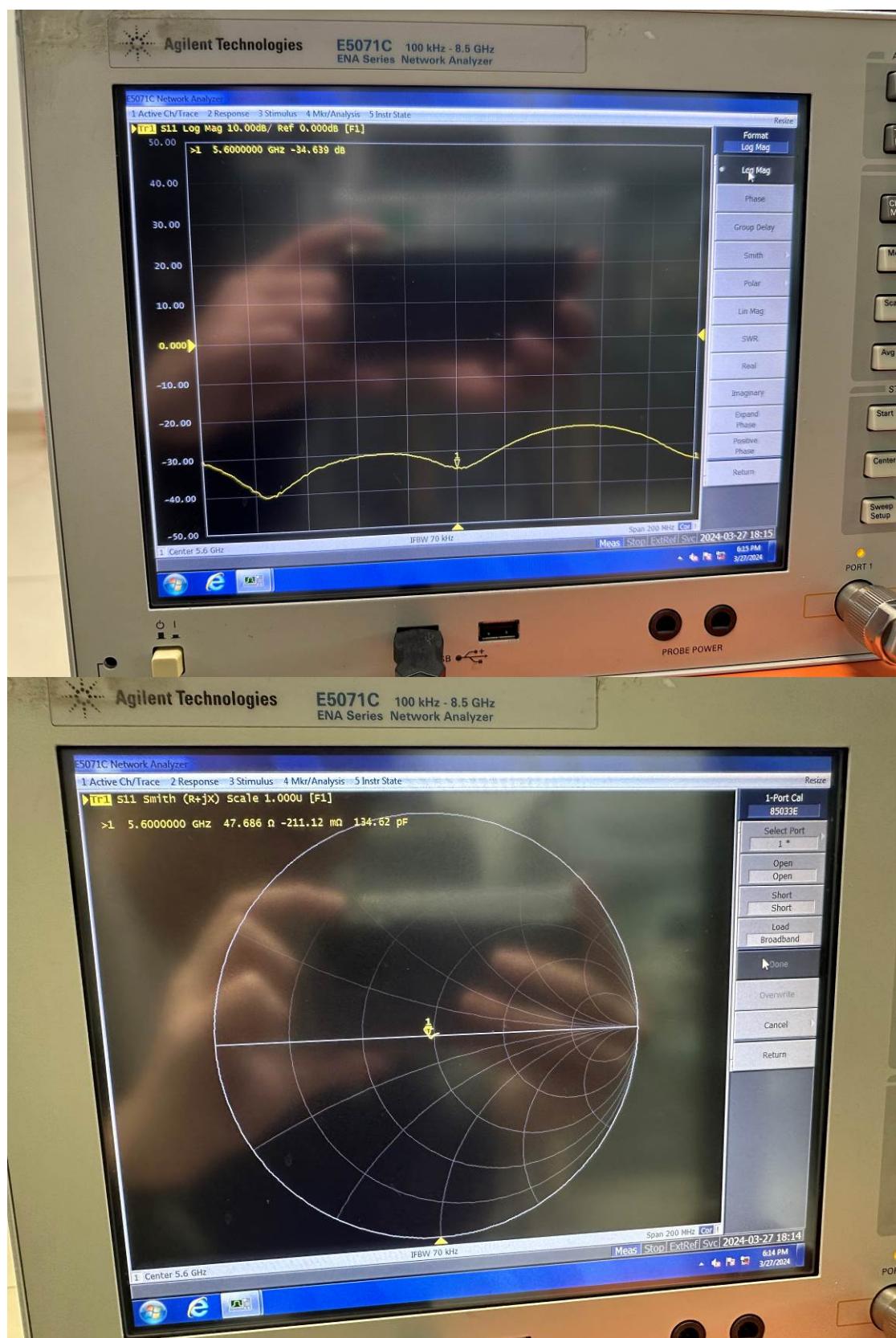
Frequency (MHz)	Simulated Liquid	Parameter	Measured Value	Target Value	Deviation	Reference Range	Results
5250	Head	Return Loss	22.303 dB	23.781 dB	-6.215 %	±20%; ≥20dB	Pass
		Real Impedance	44.252 Ω	45.776 Ω	1.524 Ω	≤ 5 Ω	Pass
		Imaginary Impedance	-2.702 Ω	-4.545 Ω	1.843 Ω	≤ 5 Ω	Pass
5600	Head	Return Loss	34.639 dB	35.868 dB	3.426%	±20%; ≥20dB	Pass
		Real Impedance	47.686 Ω	43.421 Ω	4.265 Ω	≤ 5 Ω	Pass
		Imaginary Impedance	-0.211 Ω	1.492 Ω	1.703 Ω	≤ 5 Ω	Pass
5800	Head	Return Loss	29.943 dB	27.331 dB	9.557 %	±20%; ≥20dB	Pass
		Real Impedance	50.363 Ω	54.232 Ω	-3.869 Ω	≤ 5 Ω	Pass
		Imaginary Impedance	-2.534 Ω	1.475 Ω	-4.009 Ω	≤ 5 Ω	Pass

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

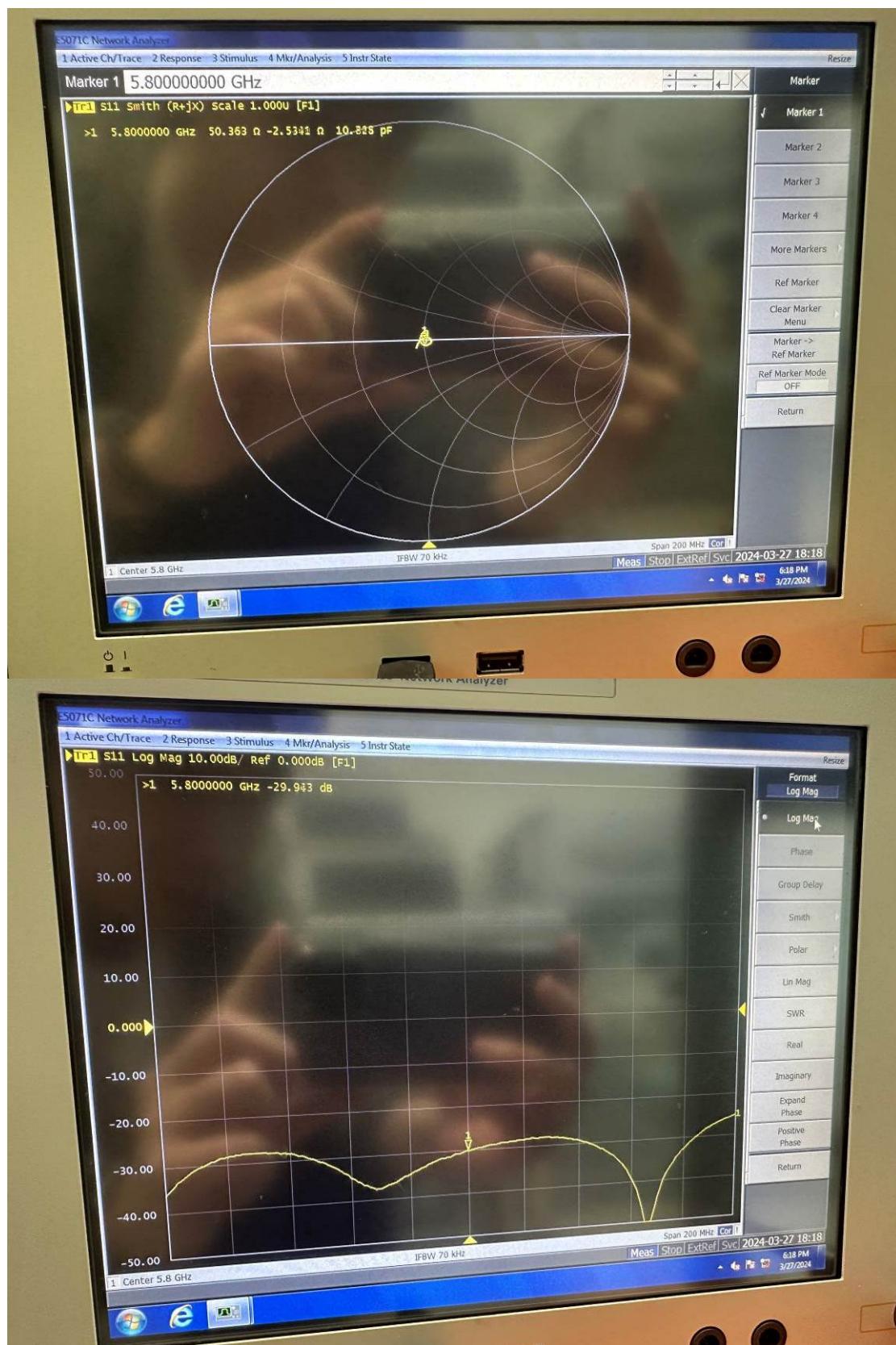
## Dipole, 5250MHz, 1374



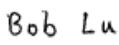
## Dipole, 5600MHz, 1374



## Dipole, 5800MHz, 1374



**Equipment Details:**

Description: Dipole  
 Manufacturer: Speag  
 Model Number: D5GHzV2  
 Serial Number: 1374  
 Calibration Date: 2025/03/26  
 Calibrated By: Bob Lu  
 Signature: 

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

**Calibrated Equipment:**

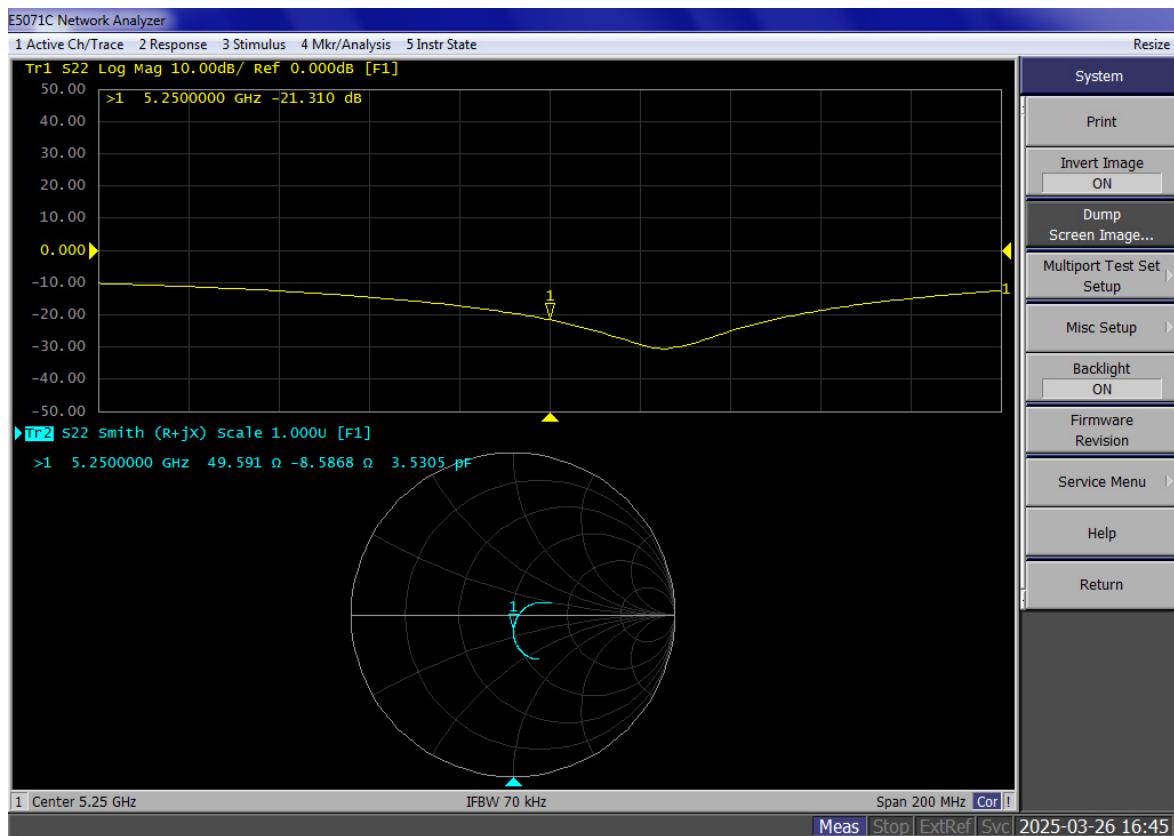
Equipment	Model	S/N	Calibration Date	Calibration Due Date
Simulated Tissue Liquid Head	HBBL600-10000V6	2200808-2	Each Time	
SAM Twin Phantom	SAM-Twin V8.0	1962	NCR	NCR
Network Analyzer	E5071C	SER MY46519680	2024/05/21	2025/05/20
Network Analyzer Calibration Kit	50 Ω	51026	NCR	NCR

**Test Data:**

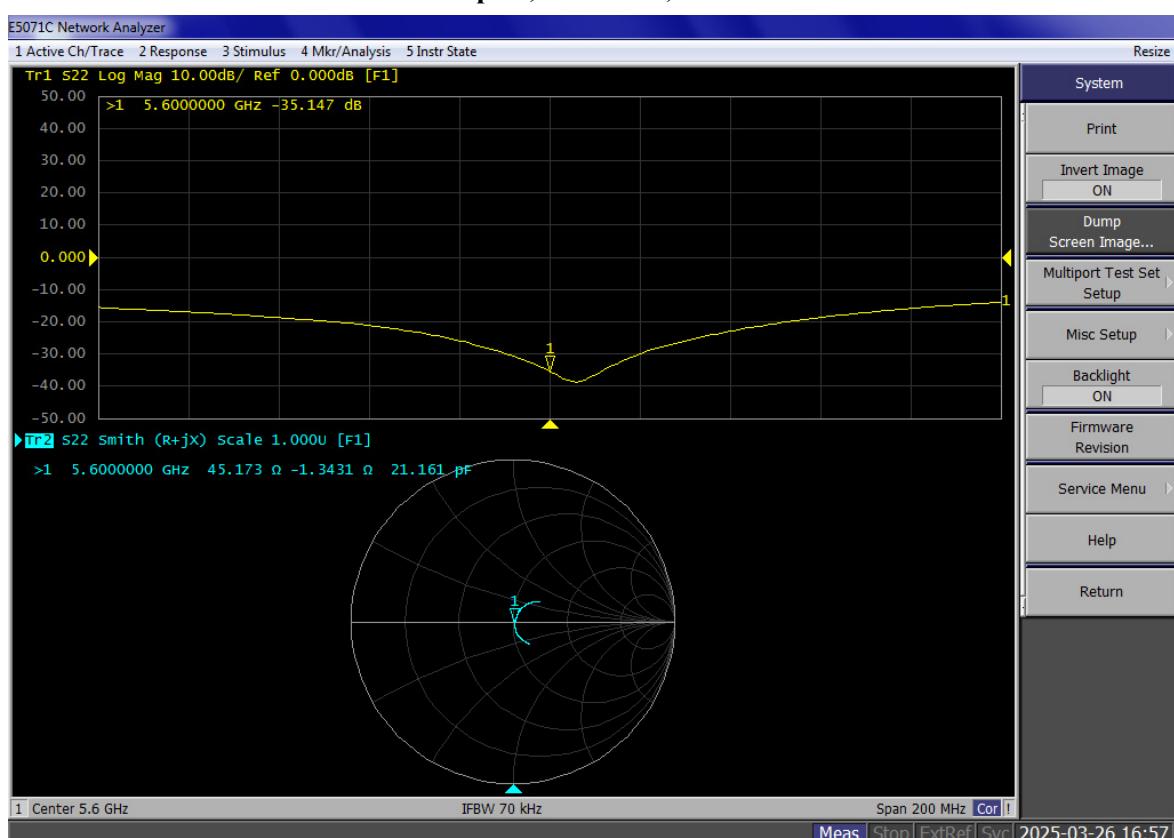
Frequency (MHz)	Simulated Liquid	Parameter	Measured Value	Target Value	Deviation	Reference Range	Results
5250	Head	Return Loss	21.310 dB	23.781 dB	-10.391 %	±20%; ≥20dB	Pass
		Real Impedance	49.591 Ω	45.776 Ω	3.815 Ω	≤ 5 Ω	Pass
		Imaginary Impedance	-8.589 Ω	-4.545 Ω	4.044 Ω	≤ 5 Ω	Pass
5600	Head	Return Loss	35.147 dB	35.868 dB	-2.010 %	±20%; ≥20dB	Pass
		Real Impedance	45.173 Ω	43.421 Ω	1.752 Ω	≤ 5 Ω	Pass
		Imaginary Impedance	-1.343 Ω	1.492 Ω	2.835 Ω	≤ 5 Ω	Pass
5800	Head	Return Loss	25.866 dB	27.331 dB	-5.360 %	±20%; ≥20dB	Pass
		Real Impedance	51.957 Ω	54.232 Ω	2.275 Ω	≤ 5 Ω	Pass
		Imaginary Impedance	4.812 Ω	1.475 Ω	3.337 Ω	≤ 5 Ω	Pass

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

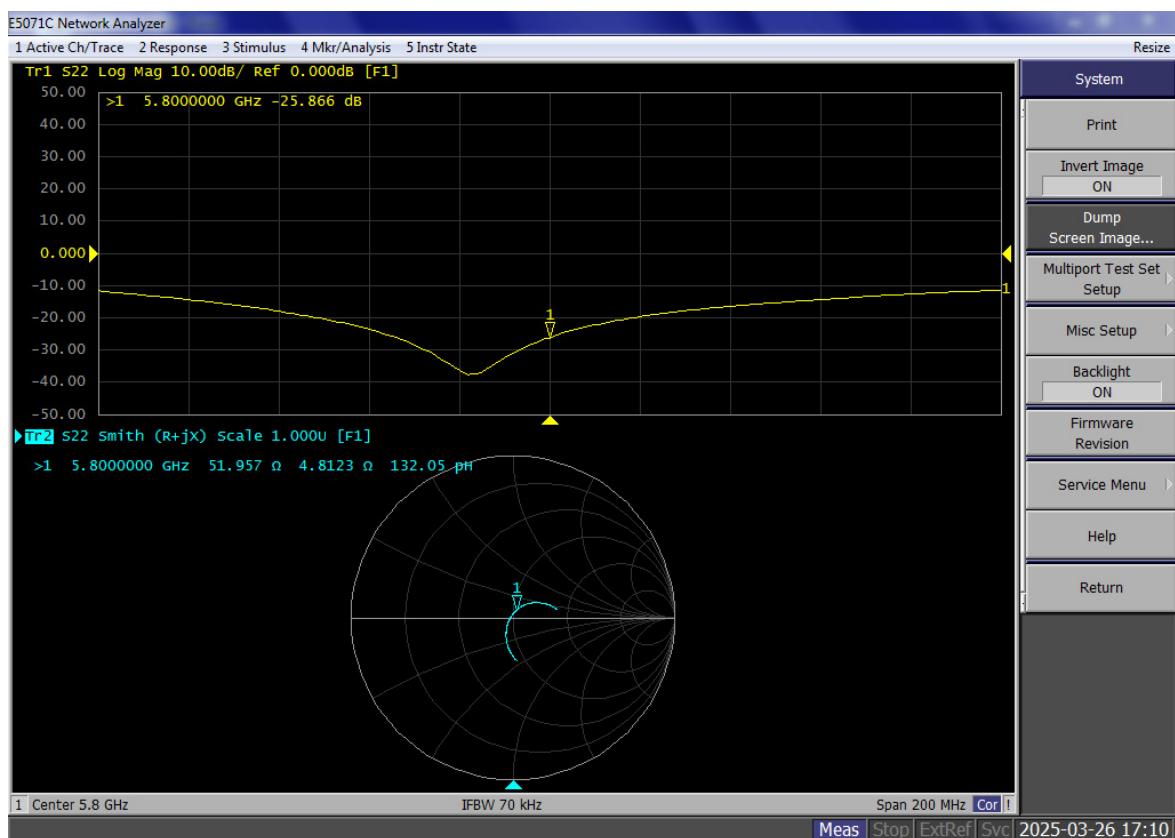
## Dipole, 5250MHz, 1374



## Dipole, 5600MHz, 1374



## Dipole, 5800MHz, 1374



\*\*\*\*\* END OF REPORT \*\*\*\*\*