



## RF Characterization Report

### RF25S Series Cable Assemblies

RF25S-SCC21-01SP1-0305



**Description:**  
**RF Cable Assembly, RF25S Cable**

**Series:** RF25S  
**Description:** RF Cable Assembly, RF25S Cable

### Table of Contents

Test Setup Information..... 1  
    Scope: ..... 1  
    Product Description: ..... 1  
    Test Calibration:..... 1  
    Definition of Assembly under Test: ..... 2  
    Port Designations: ..... 2  
    Legend for Plots:..... 2  
    RF25S-SCC21-01SP1-0305..... 3  
Instrument Setup:..... 4  
Test Fixture: ..... 4

**Series:** RF25S

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## Test Setup Information

### Scope:

To perform characterization tests, Insertion Loss, Return Loss and Voltage Standing Wave Ratio.

### Product Description:

The table below presents a description of the RF25S cable assembly that was tested:

Part Number	Length	Termination – End 1	Termination – End 2
RF25S-SCC21-01SP1-0305	305 mm	Bull's Eye Coat Test Point with knurled ferrule	SMA, Straight, Plug

### Test Calibration:

Calibration is performed using Agilent mechanical calibration kit, PN 85052D to the calibration point below. Any adapters beyond this point are included in the measurements.



(Actual setup depicted.)

### Adapter Use:

**Series:** RF25S**Description:** RF Cable Assembly, RF25S Cable

Each port uses at least one precision adapter capable of mating to the assembly under test. Any supplementary adapter will contribute additional electrical characteristics to the measured data. Any use of additional adapters is noted.

<b>Product Part Number</b>	<b>Used Adapter Part Number</b>	<b>Adapter End</b>	<b>Vender</b>	<b>Used Quantity</b>
RF25S-SCC21-01SP1-0305	73251-1850	SMA Jack	Molex	1

**Definition of Assembly under Test:**

The performance characteristics include the interface with adapters.

**Port Designations:**

The connector attached to port 1 of the VNA is "End 1" from the part number callout. Insertion Loss is measured using S21 and Return Loss / VSWR is measured using S11.

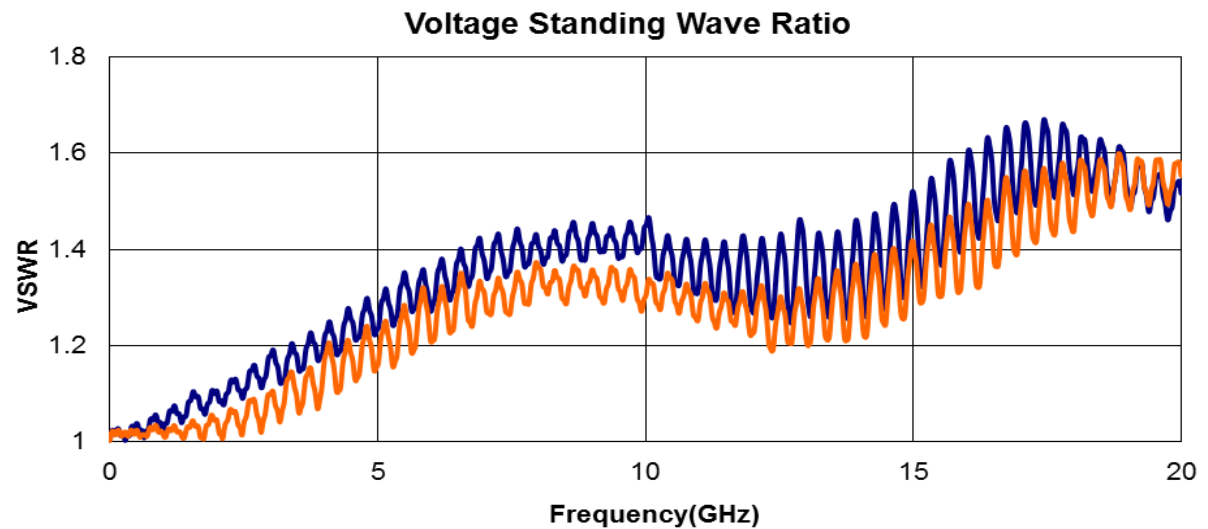
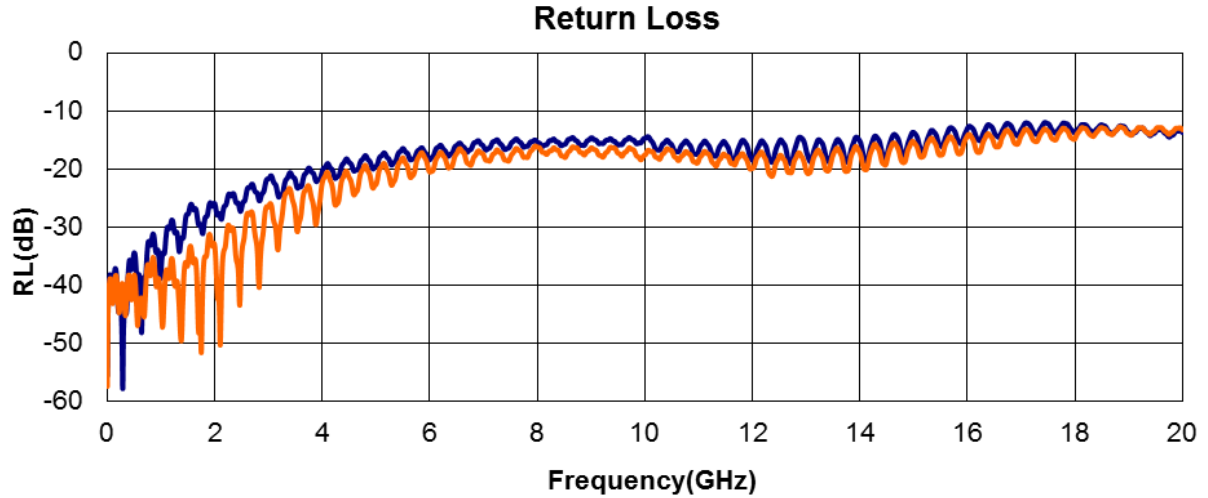
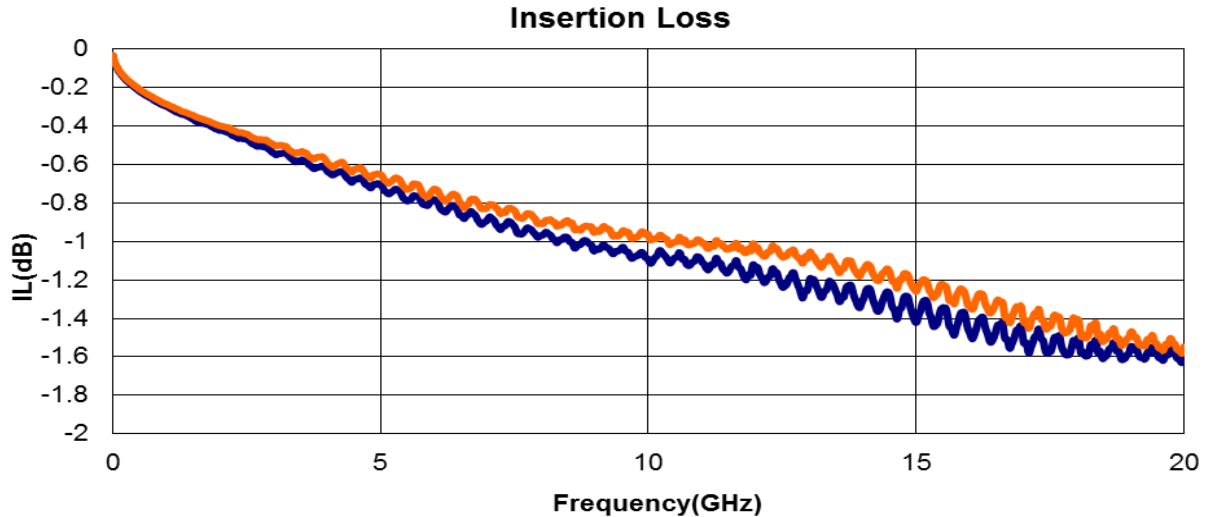
**Legend for Plots:**

5 samples were tested. Only the min/max plots are shown for clarity in this report.

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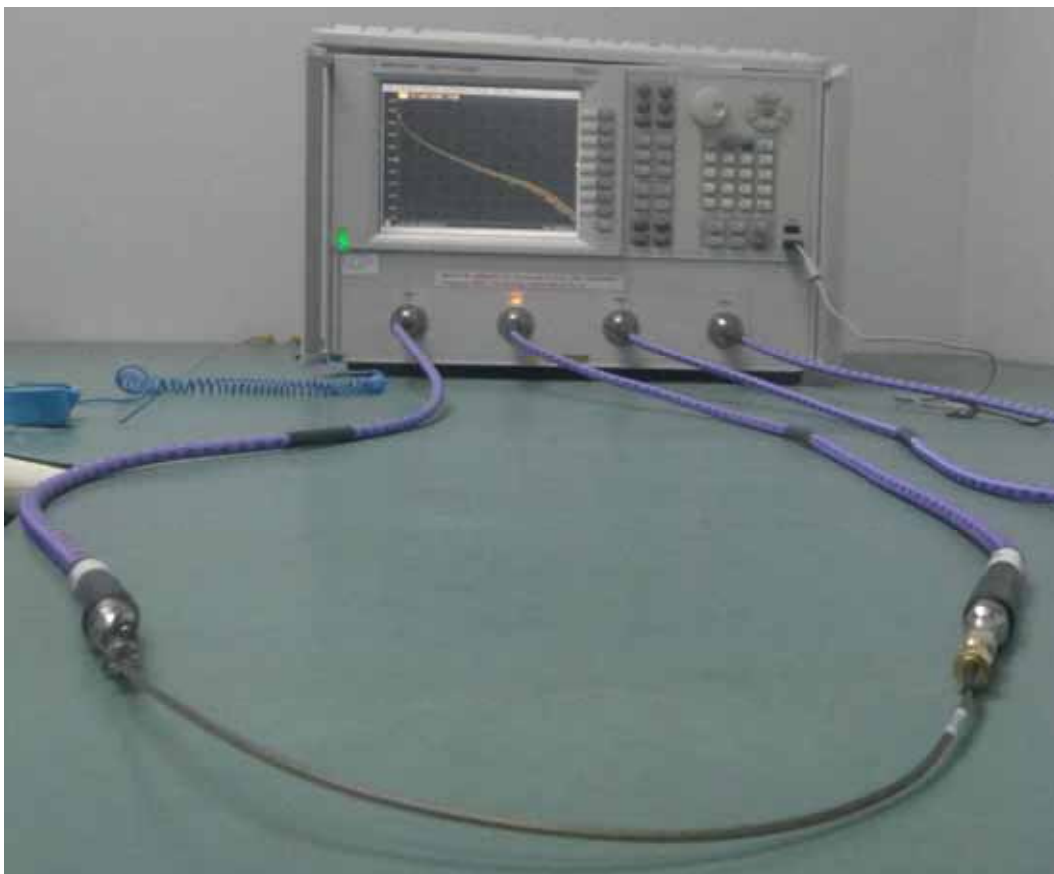
**Description:** RF Cable Assembly, RF25S Cable

### Instrument Setup:

Network Analyzer	Agilent N5230C PNA-L Series (300 KHz - 20 GHz)
Mechanical Calibration Kit	85052D
Electronic Calibration Kit	N4433A

Averaging Factor	Off
Smoothing	Off
IF Bandwidth	1 KHz
Sweep Start	300 KHz
Sweep End	20 GHz
Points	1601

### Test Fixture:



N5230C (Typical set-up, actual part not depicted.)