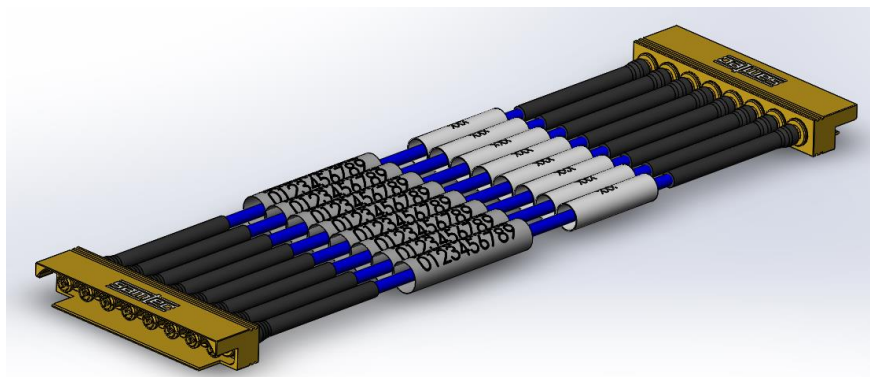




RF Characterization Report

GC47-1-08-XXXX



Test Date: 26 October 2021

Description

GC47 50 Ohm SMPM Ganged, Multi Position, Cable Assembly

Series: GC47

Description: 50 Ohm SMPM Ganged, Multi Position, Cable Assembly

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Series: GC47

Description: 50 Ohm SMPM Ganged, Multi Position, Cable Assembly

Test Setup Information

Scope:

Provide standing wave ratio, return loss and insertion loss performance parameters for GC47 micro high frequency RF cable assembly.

Instrument Setup & Test Accessories:

Network Analyzer	Keysight PNA N5227B
Averaging Factor	1
Smoothing	Off
IF Bandwidth	1 KHz
Sweep Start	10 MHz
Sweep End	67 GHz
Points	6700
Test Cables	Gore 0F0CACB036.0-LF (DC to 67 GHz)

Calibration Type:

A Keysight electrical calibration is performed for N5227B using the Keysight ECAL 4694A.

Calibration Kit	Keysight ECAL 4694A
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Adapter Use:

SMPM Male adapters were used for the measurement, the adapter effects were removed from the measurement using the Fixture Removal method.

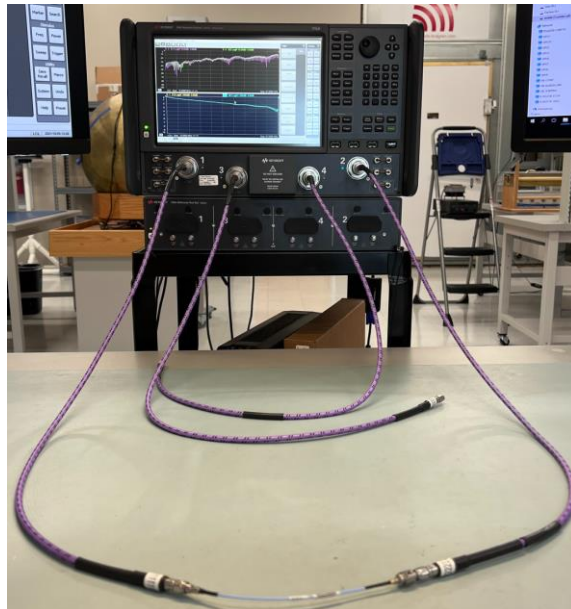
Series: GC47

Description: 50 Ohm SMPM Ganged, Multi Position, Cable Assembly

GC47-1-08-XXXX Test Definition

Part Number	End 1	End 2
GC47-1-08-XXXX	SMPM Jack	SMPM Jack

Connector Under Test:



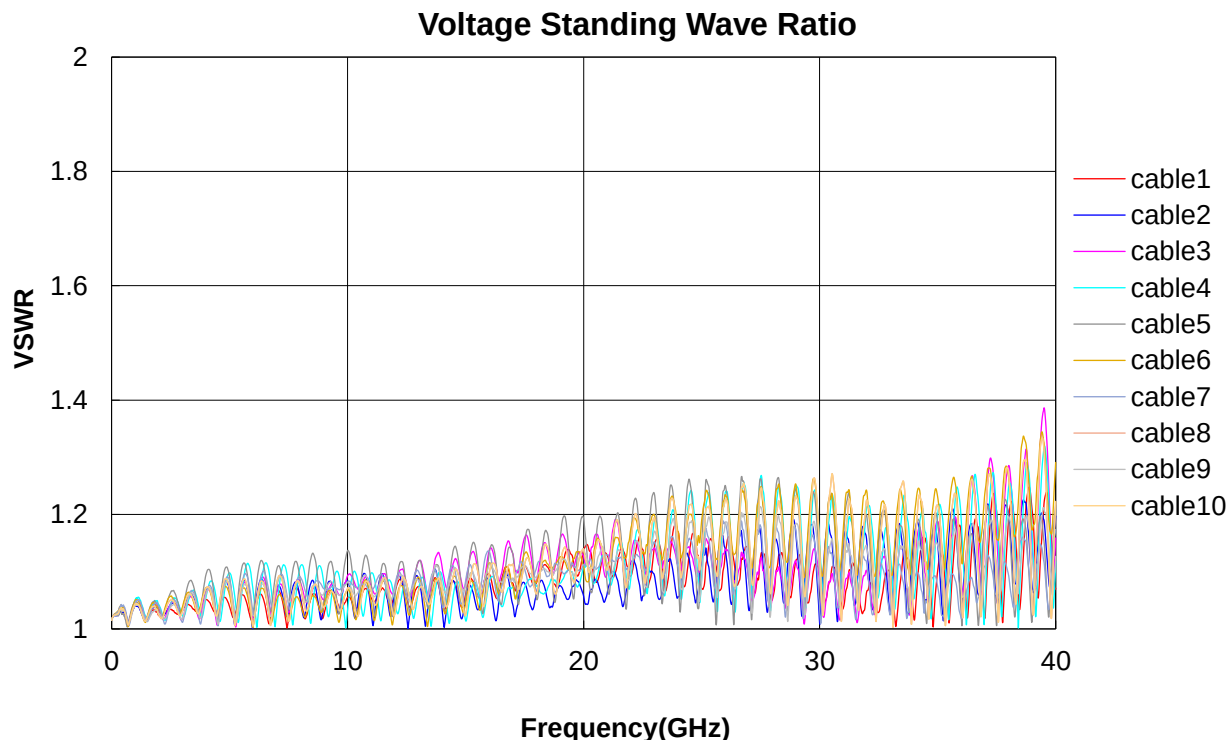
Series: GC47

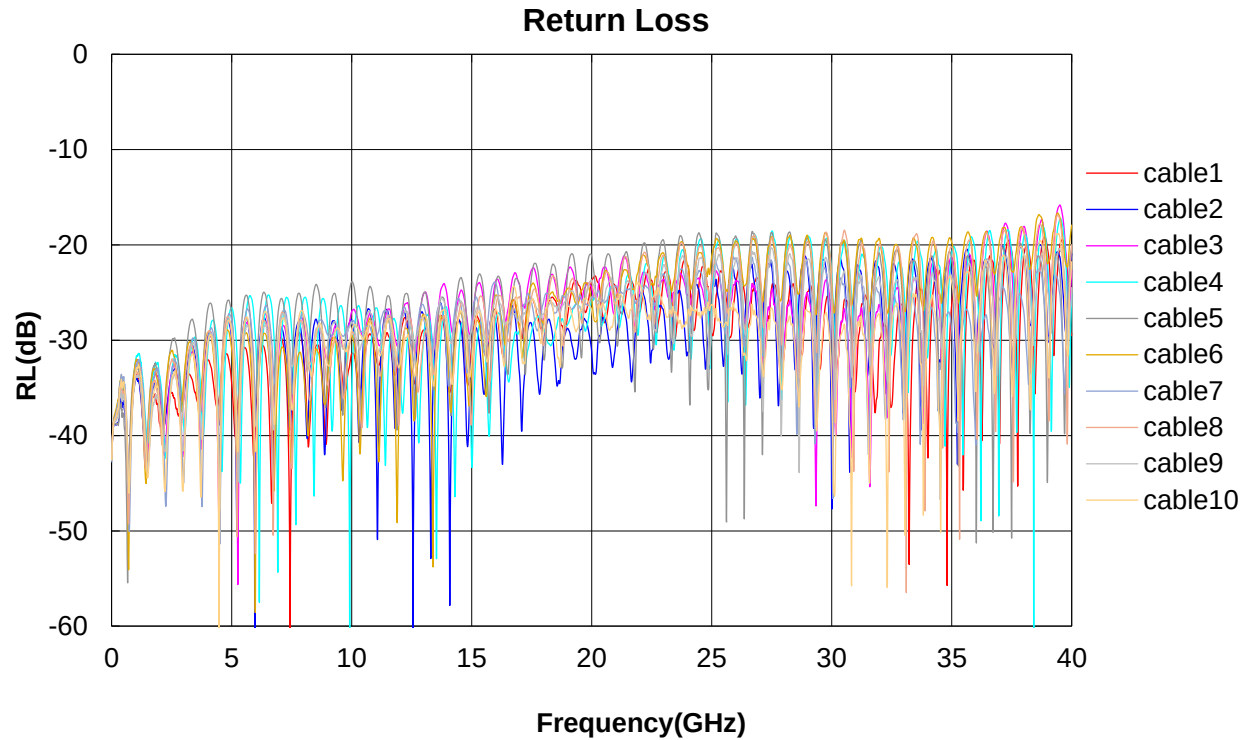
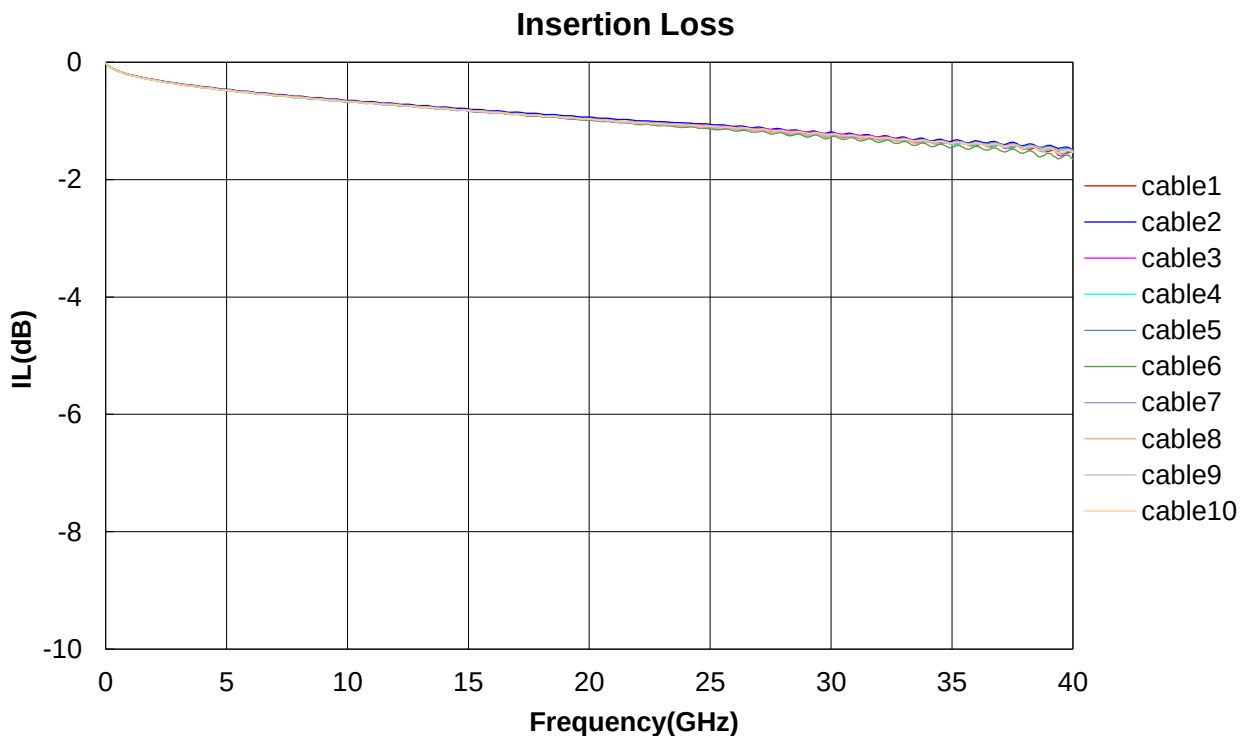
Description: 50 Ohm SMPM Ganged, Multi Position, Cable Assembly

Results: GC47-1-08-0152

Description: GC47 Cable Assembly			
Sample	VSWR(max) DC to 40 GHz	RL(max) DC to 40 GHz	IL(min) DC to 40 GHz
cable1	1.25 @ 38.87 GHz	-19.15 @ 38.87 GHz	-1.56 dB @ 39.66 GHz
cable2	1.23 @ 38.63 GHz	-19.88 @ 38.63 GHz	-1.49 dB @ 40.00 GHz
cable3	1.39 @ 39.51 GHz	-15.81 @ 39.51 GHz	-1.60 dB @ 39.51 GHz
cable4	1.32 @ 39.52 GHz	-17.20 @ 39.52 GHz	-1.57 dB @ 39.54 GHz
cable5	1.27 @ 26.70 GHz	-18.59 @ 26.70 GHz	-1.53 dB @ 40.00 GHz
cable6	1.34 @ 39.42 GHz	-16.65 @ 39.42 GHz	-1.65 dB @ 40.00 GHz
cable7	1.19 @ 25.90 GHz	-21.27 @ 25.90 GHz	-1.54 dB @ 40.00 GHz
cable8	1.33 @ 39.44 GHz	-16.90 @ 39.44 GHz	-1.56 dB @ 39.40 GHz
cable9	1.21 @ 27.48 GHz	-20.29 @ 27.48 GHz	-1.51 dB @ 40.00 GHz
cable10	1.26 @ 39.46 GHz	-18.78 @ 39.46 GHz	-1.54 dB @ 39.39 GHz

VSWR



Series: GC47**Description:** 50 Ohm SMPM Ganged, Multi Position, Cable Assembly**Return Loss****Insertion Loss**

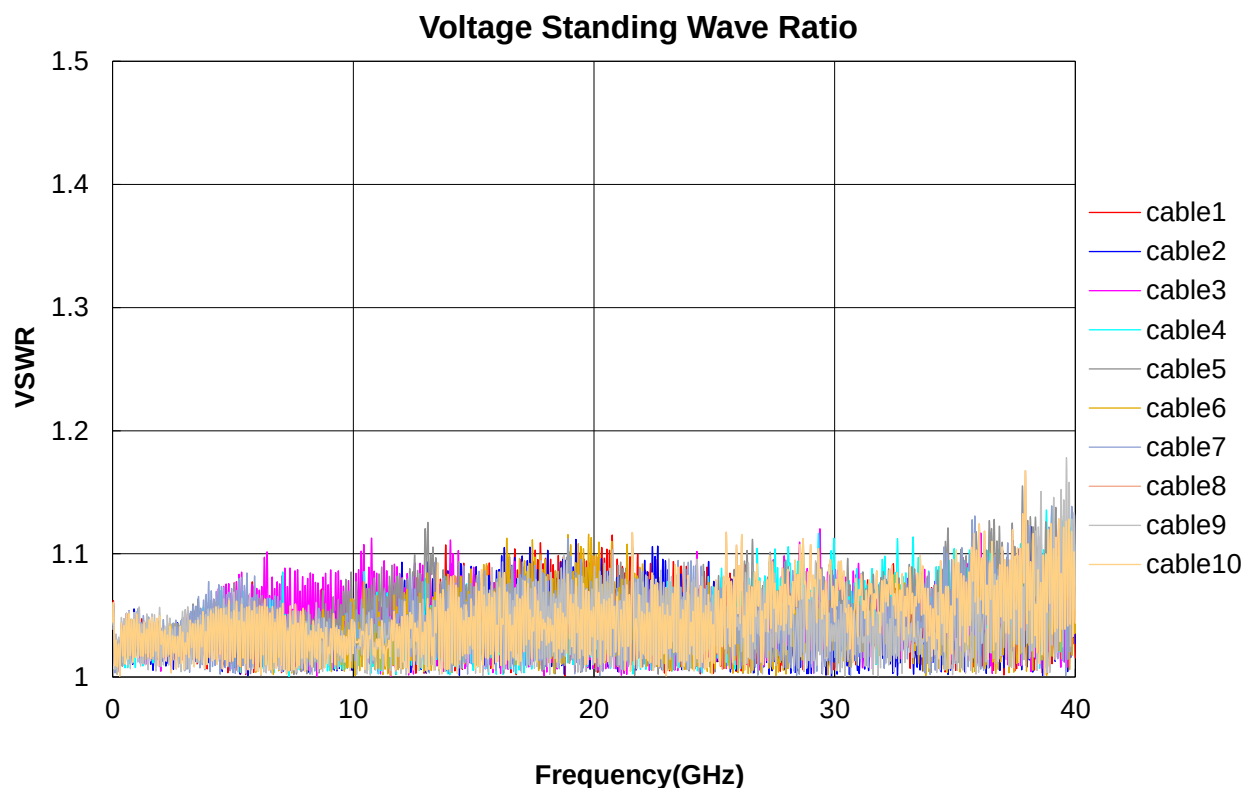
Series: GC47

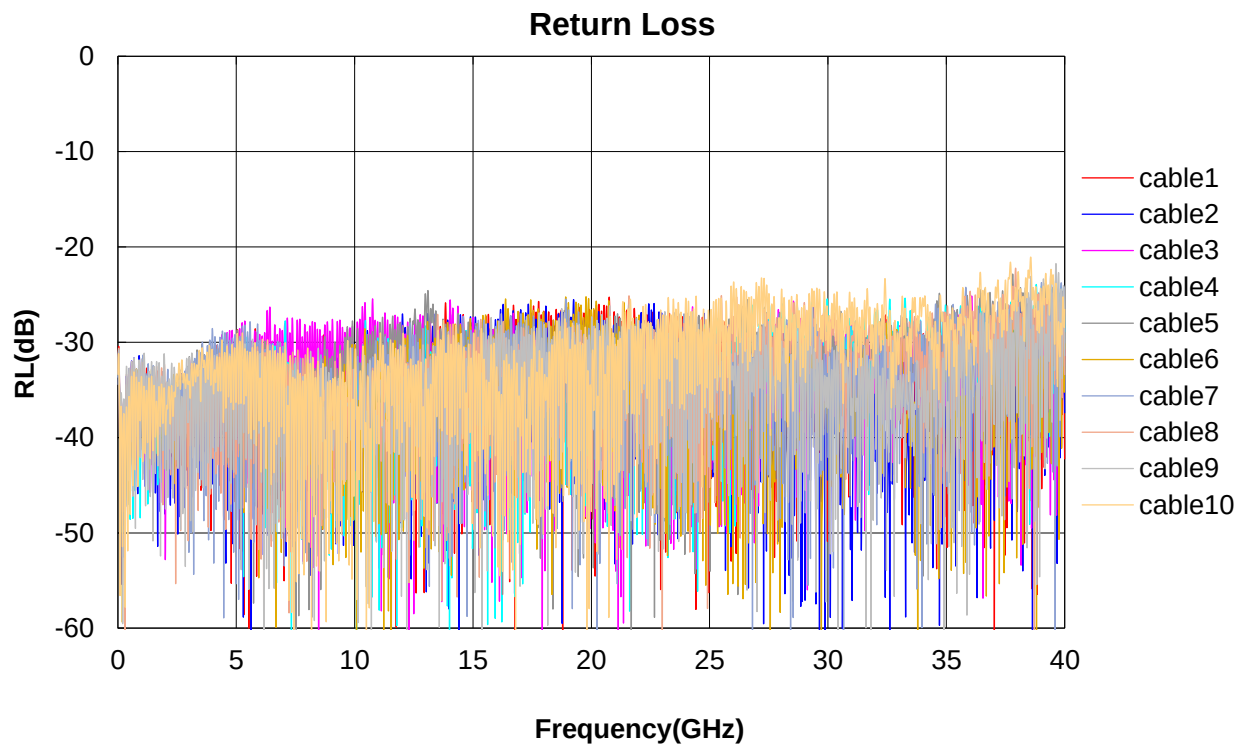
Description: 50 Ohm SMPM Ganged, Multi Position, Cable Assembly

Results: GC47-1-08-1000

Description: GC47 Cable Assembly			
Sample	VSWR(max) DC to 40 GHz	RL(max) DC to 40 GHz	IL(min) DC to 40 GHz
cable1	1.12 @ 39.31 GHz	-24.90 @ 39.31 GHz	-9.51 dB @ 39.93 GHz
cable2	1.12 @ 38.16 GHz	-24.80 @ 38.16 GHz	-9.22 dB @ 39.94 GHz
cable3	1.12 @ 29.39 GHz	-24.92 @ 29.39 GHz	-9.17 dB @ 39.93 GHz
cable4	1.14 @ 38.80 GHz	-23.94 @ 38.80 GHz	-9.16 dB @ 39.98 GHz
cable5	1.16 @ 37.80 GHz	-22.85 @ 37.80 GHz	-9.09 dB @ 40.00 GHz
cable6	1.12 @ 19.78 GHz	-25.22 @ 19.78 GHz	-9.23 dB @ 40.00 GHz
cable7	1.14 @ 39.02 GHz	-23.74 @ 39.02 GHz	-9.40 dB @ 39.97 GHz
cable8	1.17 @ 37.93 GHz	-22.23 @ 37.93 GHz	-9.21 dB @ 39.94 GHz
cable9	1.18 @ 39.63 GHz	-21.75 @ 39.63 GHz	-9.17 dB @ 39.95 GHz
cable10	1.19 @ 38.56 GHz	-21.07 @ 38.56 GHz	-9.18 dB @ 40.00 GHz

VSWR



Series: GC47**Description:** 50 Ohm SMPM Ganged, Multi Position, Cable AssemblyReturn LossInsertion Loss