



RF Characterization Report

RF180-04SP-04SP-XXXX



RF180-04BJ-04BJ-XXXX



RF180-04RP-04RP-XXXX



Test Date: Jul to Nov 2021

Description:
50 Ohm, .178 low-loss flexible RF Microwave Cable Assembly,
TNCA End Options

Series: RF180

Description: 50 Ohm, .178 low-loss flexible RF Microwave Cable Assembly,
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Test Setup Information

Scope:

Provide standing wave ratio, return loss and insertion loss performance parameters for RF180 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	18 GHz
Points	1800
Test Cables	Gore 0F0CACB036.0-LF(DC to 67 GHz)

Calibration Type:

A Keysight mechanical calibration is performed for N5227B using the Muury TNC MCAL kit.

Calibration Kit	Muury TNC MCAL 8680CK
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Adapter Use:

No adapter used.

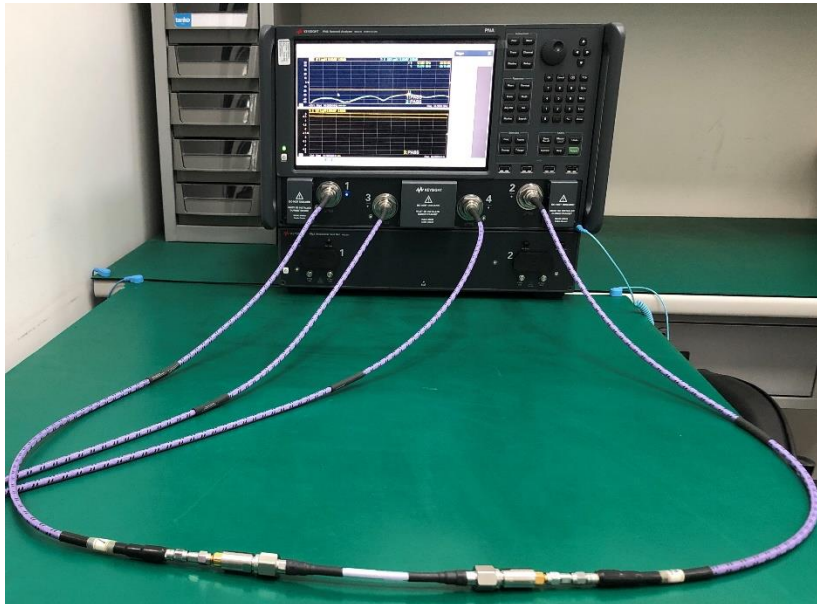
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RF180-04XX-04XX-XXXX Test Definition

Part Number	End 1	End 2
RF180-04SP-04SP-XXXX	TNCA Plug	TNCA Plug
RF180-04BJ-04BJ-XXXX	TNCA Jack	TNCA Jack
RF180-04RP-04RP-XXXX	TNCA Right-Angle Plug	TNCA Right-Angle Plug

Cable Under Test:



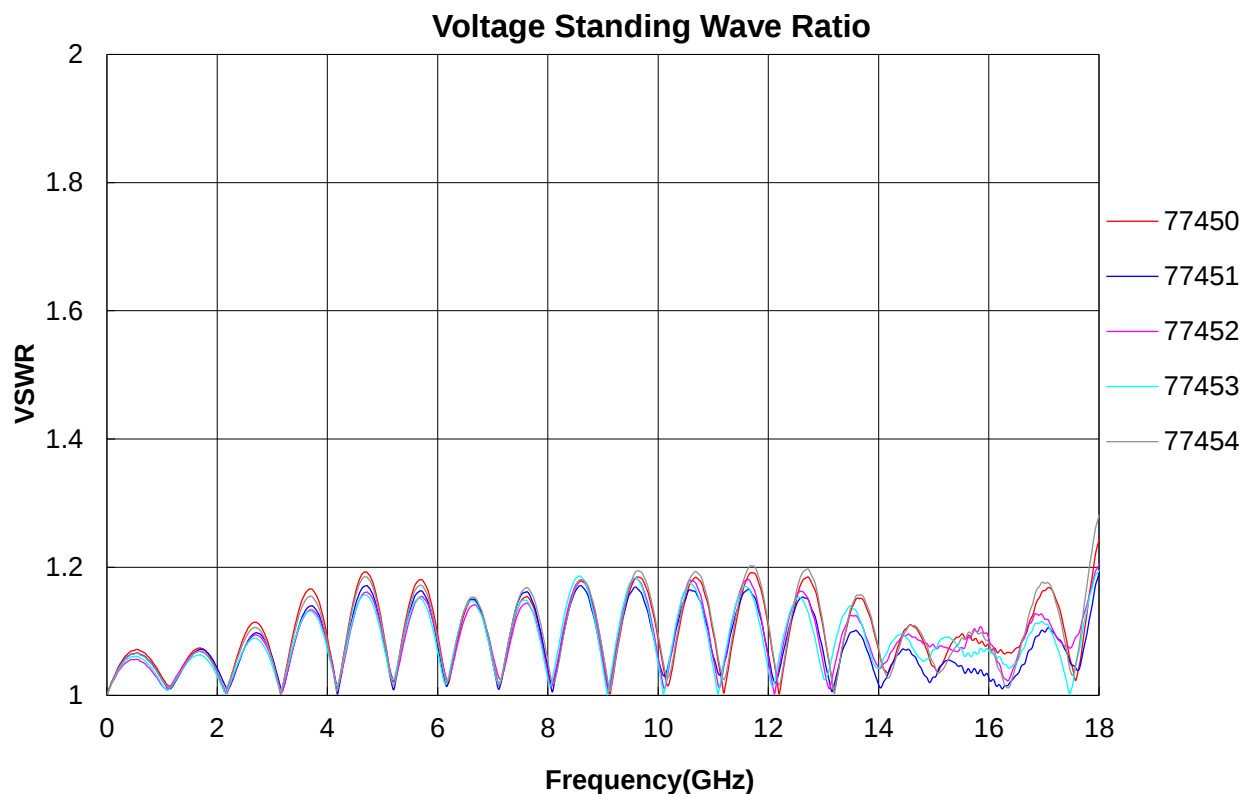
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Results: RF180-04SP-04SP-0152

Description: RF180 High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(max)	IL(min)
77450	1.24 @ 18.00 GHz	-19.28 @ 18.00 GHz	-0.34 dB @ 18.00 GHz
77451	1.19 @ 15.75 GHz	-21.20 @ 18.00 GHz	-0.31 dB @ 18.00 GHz
77452	1.21 @ 15.67 GHz	-20.62 @ 18.00 GHz	-0.32 dB @ 18.00 GHz
77453	1.20 @ 18.00 GHz	-21.02 @ 18.00 GHz	-0.31 dB @ 18.00 GHz
77454	1.28 @ 18.00 GHz	-18.18 @ 18.00 GHz	-0.36 dB @ 18.00 GHz

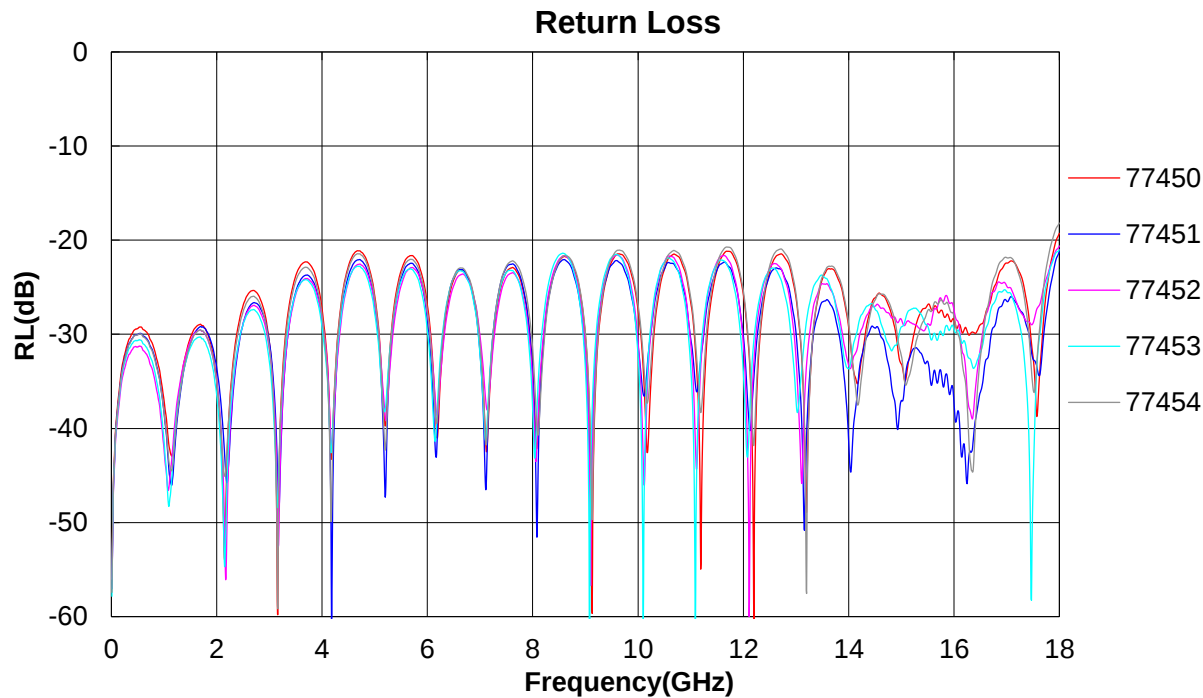
VSWR



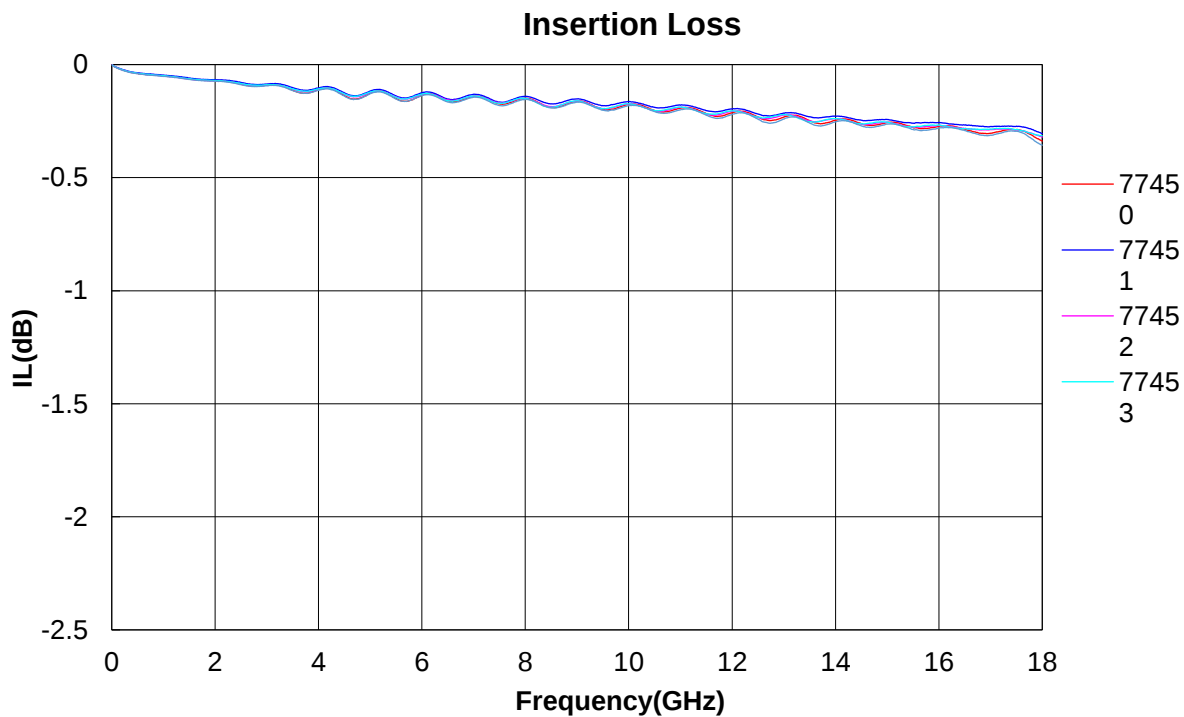
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Description: 50 Ohm, .178 low-loss flexible RF Microwave Cable Assembly,
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Return Loss



Insertion Loss



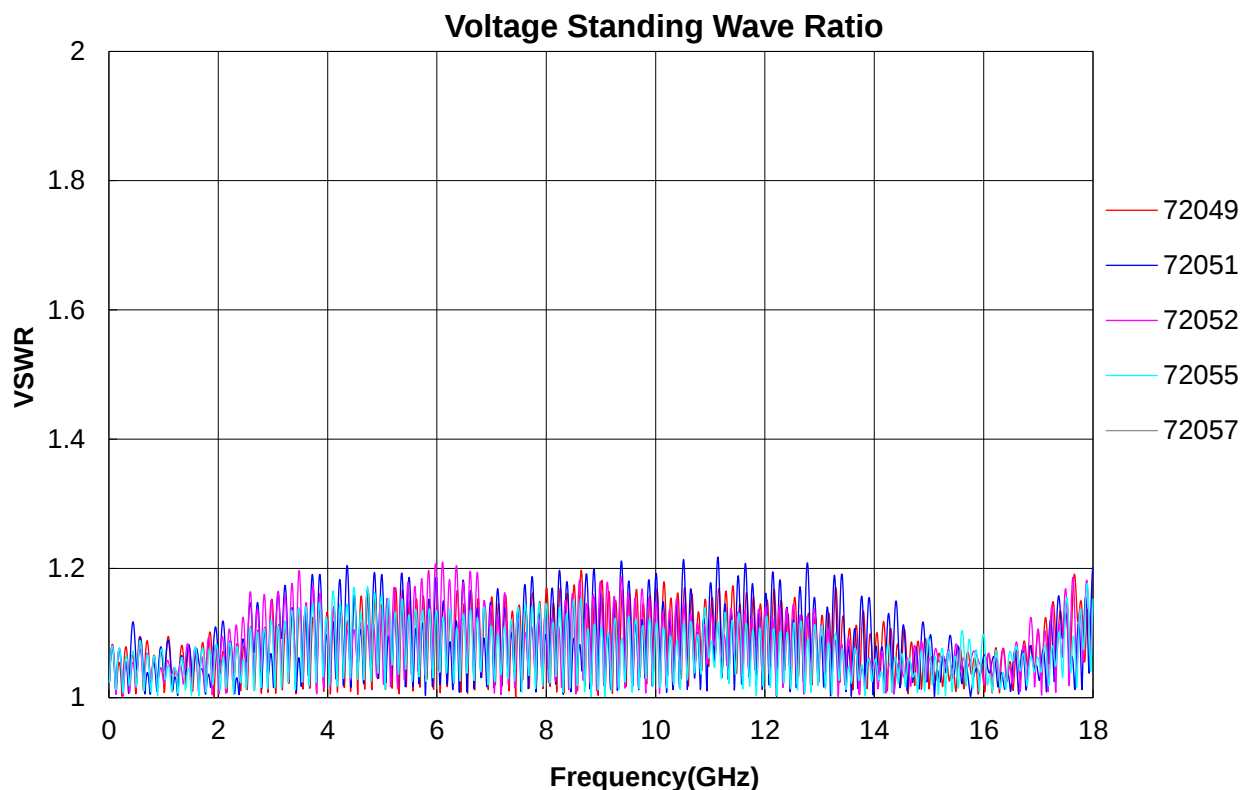
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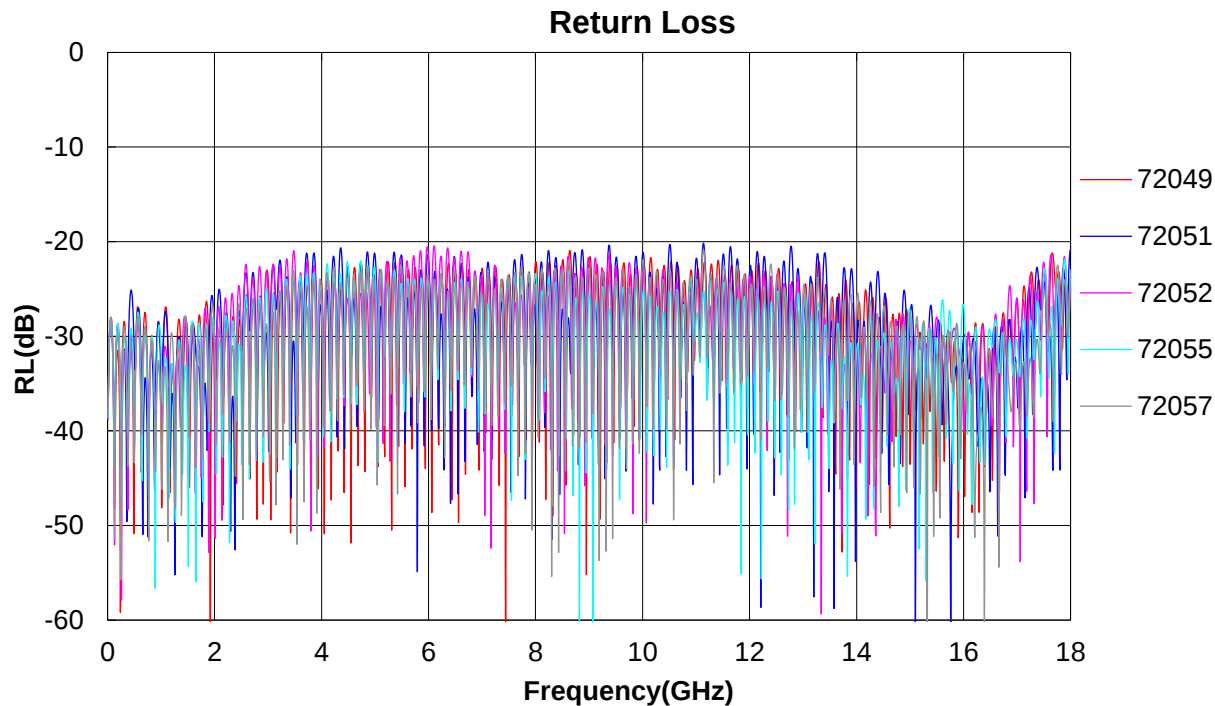
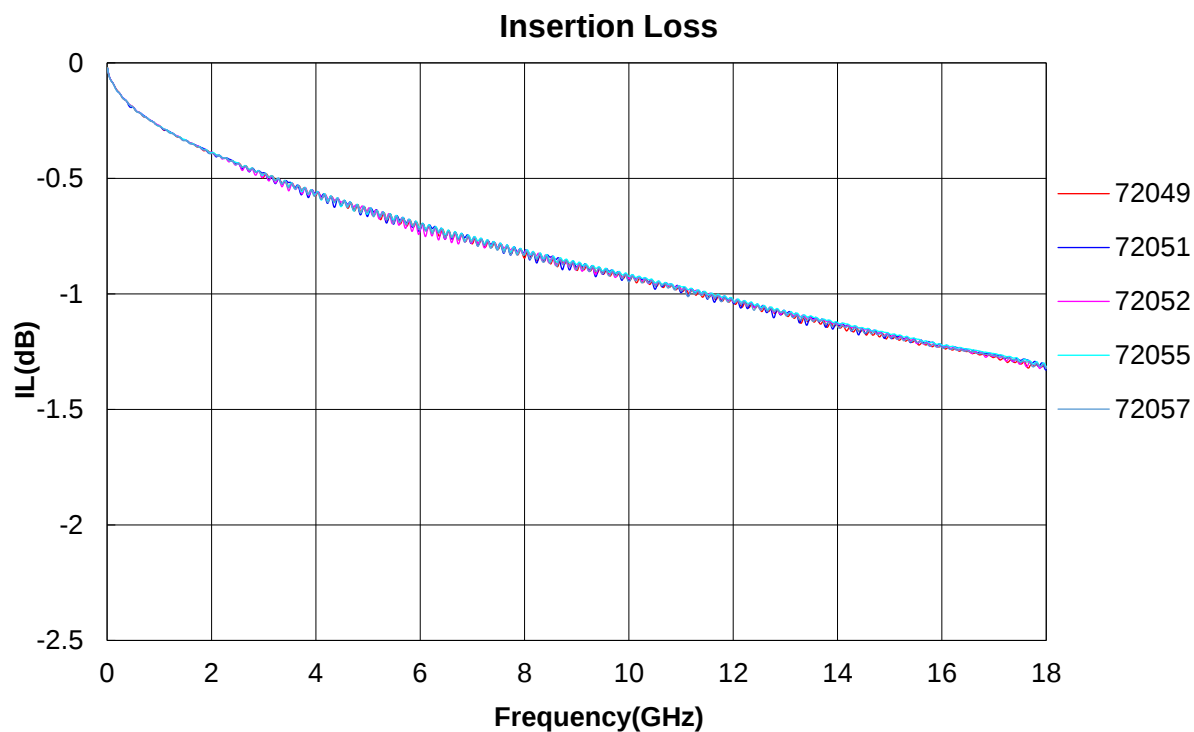
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Results: RF180-04SP-04SP-1000

Description: RF180 High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(max)	IL(min)
72049	1.20 @ 8.64 GHz	-20.93 @ 8.64 GHz	-1.32 dB @ 17.66 GHz
72051	1.22 @ 11.14 GHz	-20.16 @ 11.14 GHz	-1.33 dB @ 18.00 GHz
72052	1.21 @ 6.10 GHz	-20.45 @ 6.10 GHz	-1.32 dB @ 17.87 GHz
72055	1.18 @ 17.89 GHz	-21.81 @ 17.89 GHz	-1.32 dB @ 18.00 GHz
72057	1.20 @ 11.14 GHz	-20.86 @ 11.14 GHz	-1.32 dB @ 18.00 GHz

VSWR



Series: RF180**Description:** 50 Ohm, .178 low-loss flexible RF Microwave Cable Assembly,
TNCA End OptionsReturn LossInsertion Loss

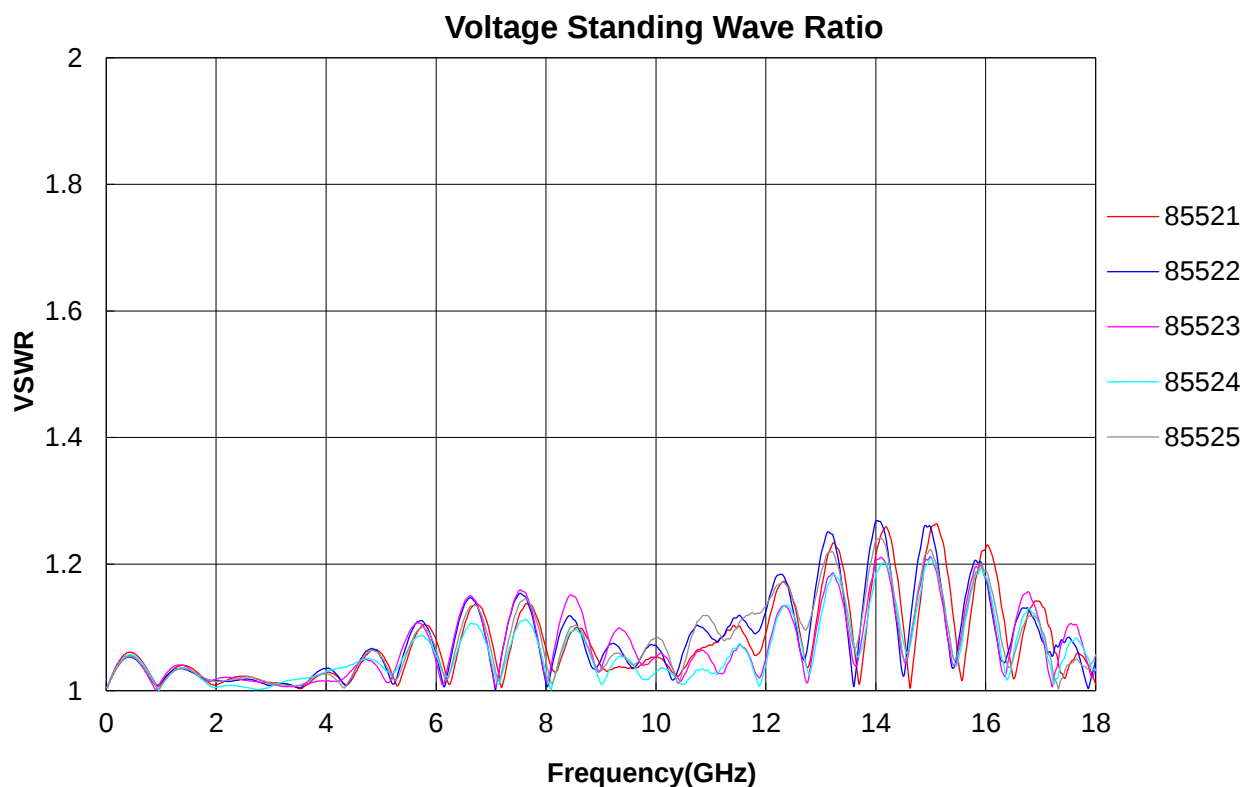
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Results: RF180-04BJ-04BJ-0152

Description: RF180 High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(max)	IL(min)
85521	1.26 @ 15.11 GHz	-18.67 @ 15.11 GHz	-0.29 dB @ 16.05 GHz
85522	1.27 @ 14.01 GHz	-18.53 @ 14.01 GHz	-0.32 dB @ 15.86 GHz
85523	1.21 @ 15.00 GHz	-20.38 @ 15.00 GHz	-0.32 dB @ 15.86 GHz
85524	1.21 @ 15.00 GHz	-20.45 @ 15.00 GHz	-0.30 dB @ 15.88 GHz
85525	1.24 @ 14.09 GHz	-19.34 @ 14.09 GHz	-0.34 dB @ 15.90 GHz

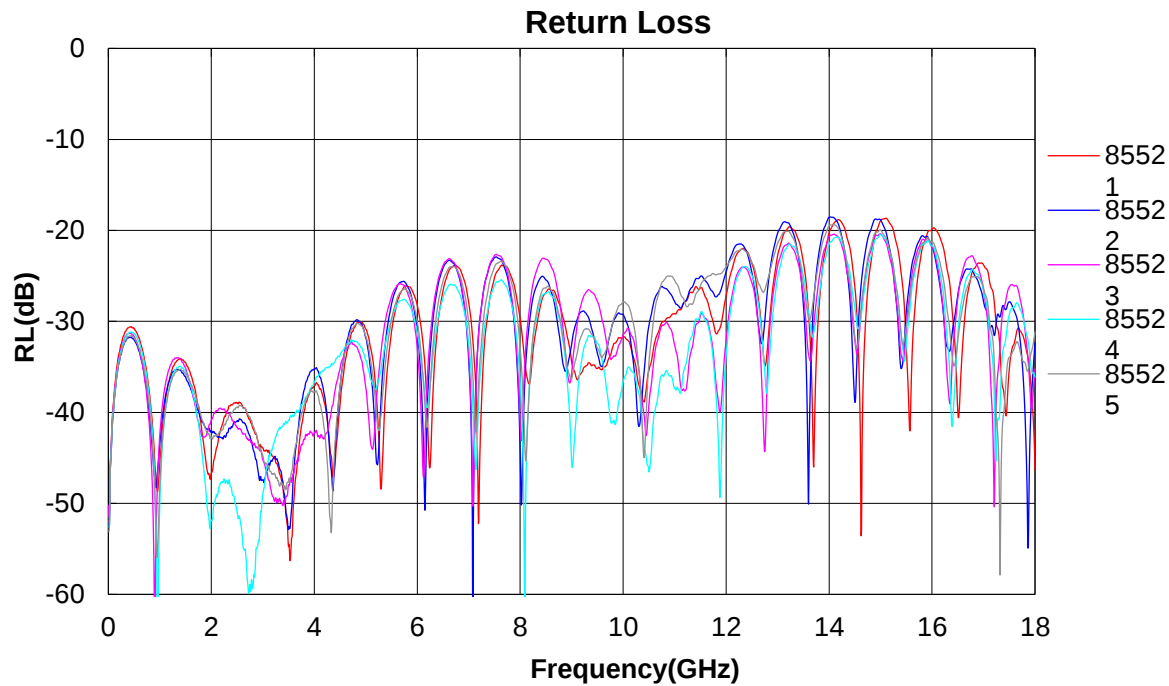
VSWR



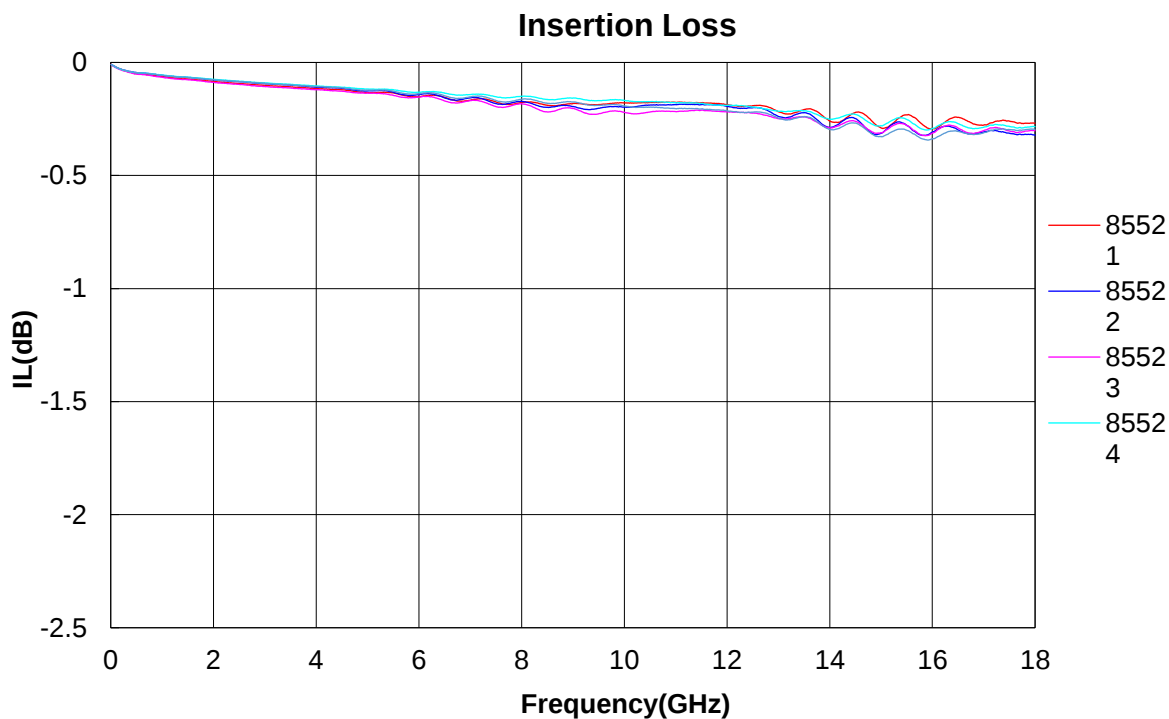
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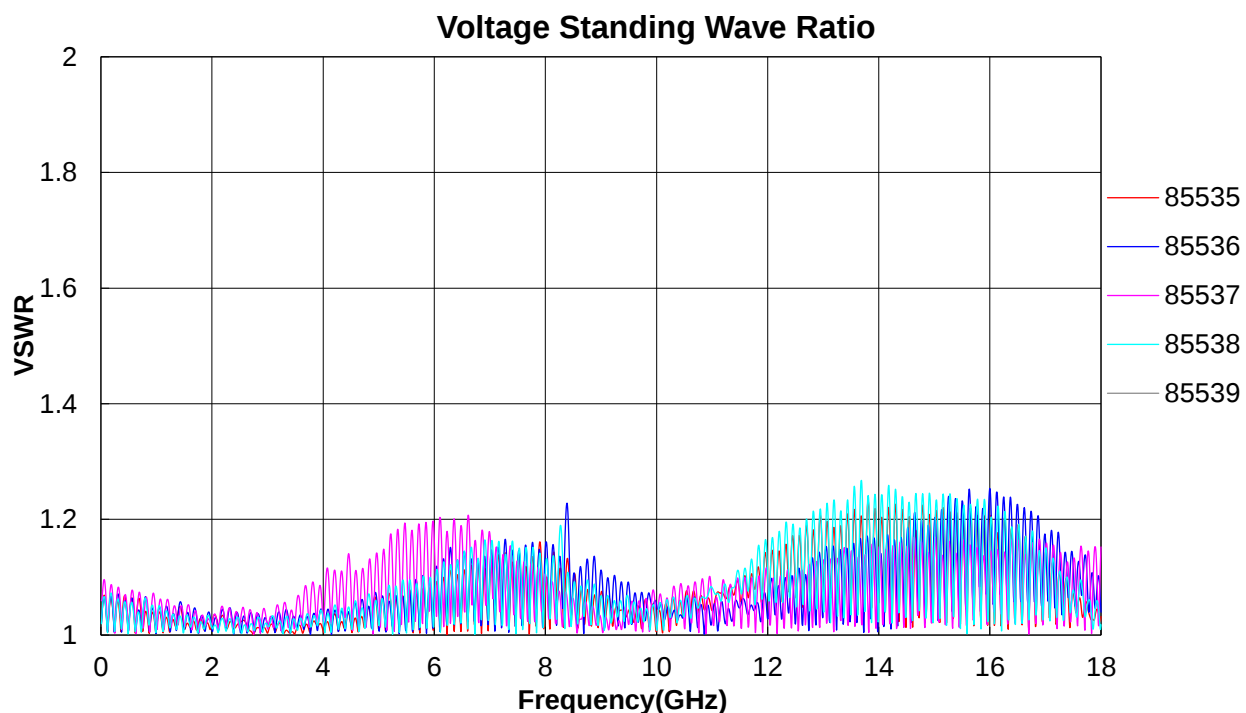
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Results: RF180-04BJ-04BJ-1000

Description: RF180 High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(max)	IL(min)
85535	1.23 @ 13.81 GHz	-19.66 @ 13.81 GHz	-1.21 dB @ 17.98 GHz
85536	1.25 @ 16.00 GHz	-18.98 @ 16.00 GHz	-1.26 dB @ 17.72 GHz
85537	1.28 @ 14.27 GHz	-18.30 @ 14.27 GHz	-1.24 dB @ 17.09 GHz
85538	1.27 @ 13.69 GHz	-18.57 @ 13.69 GHz	-1.23 dB @ 17.64 GHz
85539	1.26 @ 15.76 GHz	-18.67 @ 15.76 GHz	-1.22 dB @ 17.97GHz

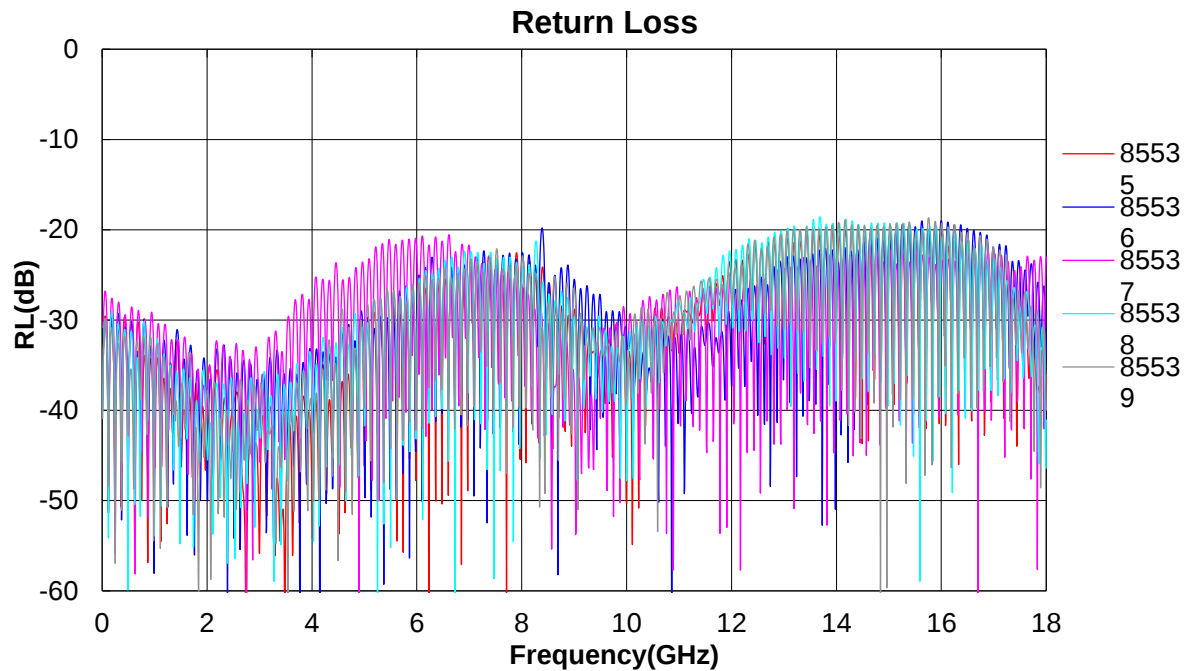
VSWR



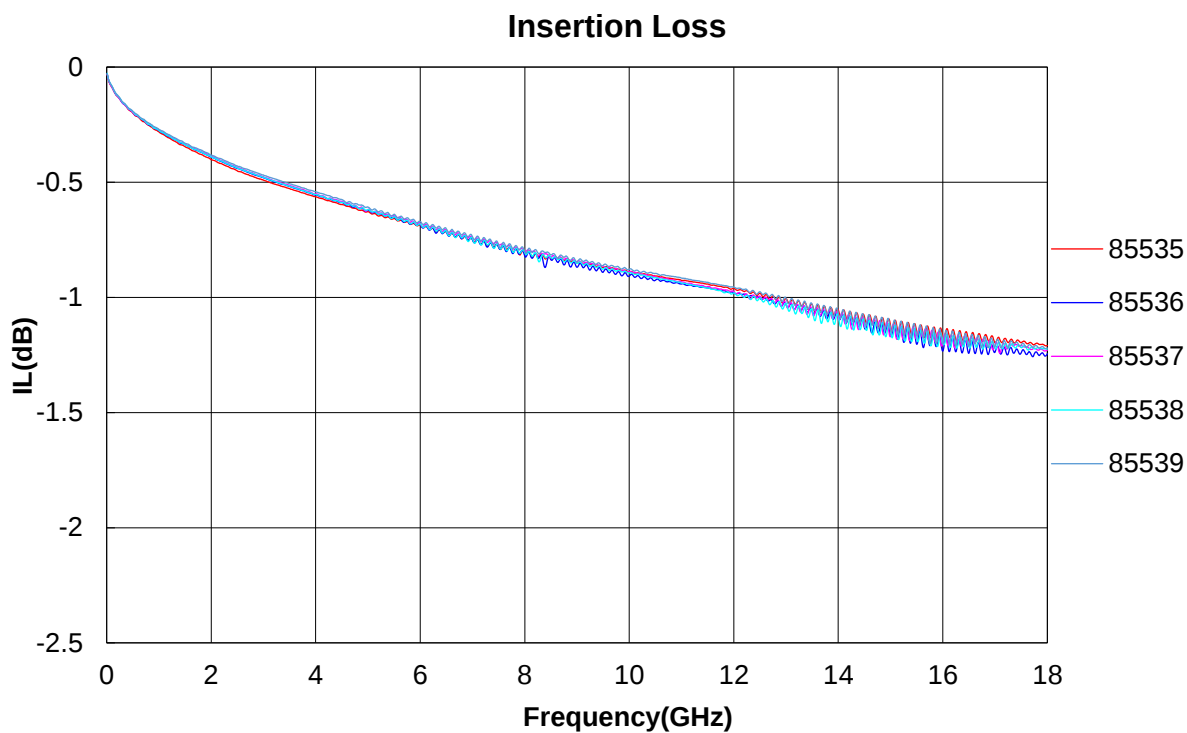
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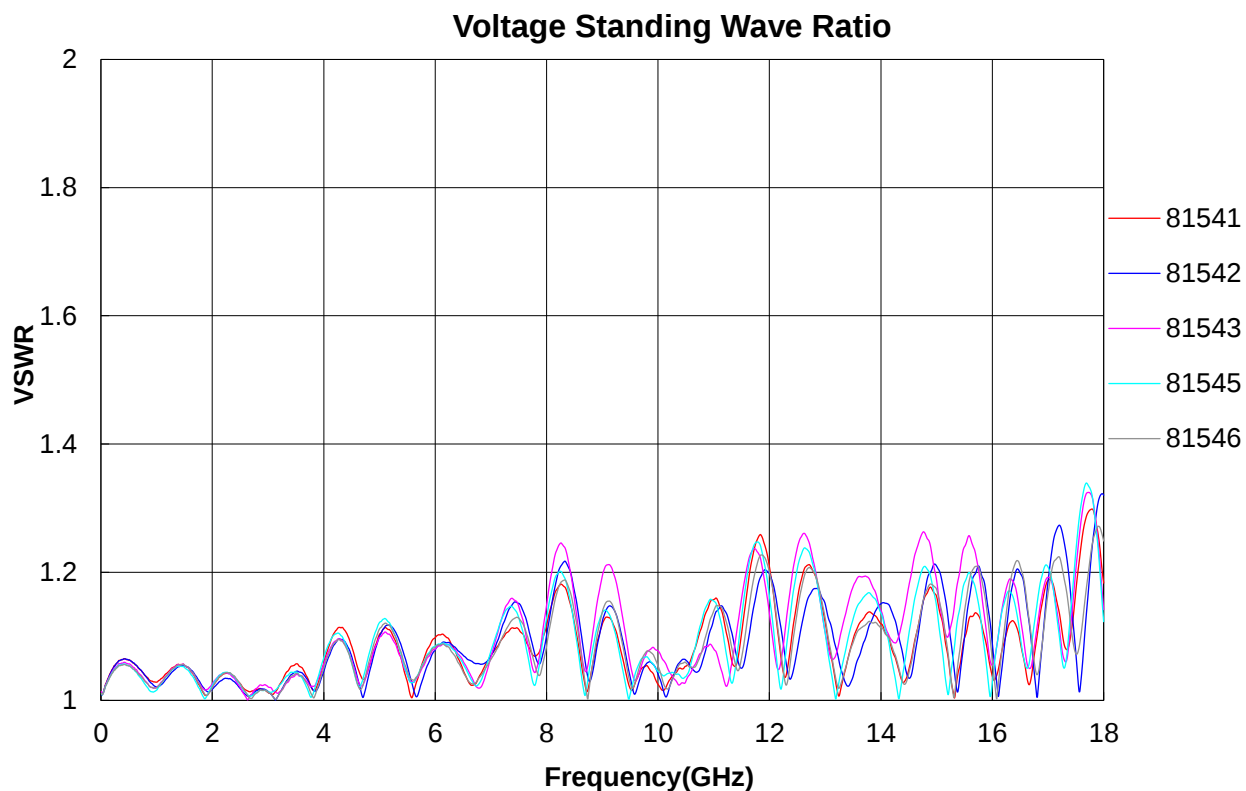
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Description: RF180 High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(max)	IL(min)
81541	1.30 @ 17.79 GHz	-17.73 @ 17.79 GHz	-0.42 dB @ 17.77 GHz
81542	1.32 @ 17.97 GHz	-17.15 @ 17.97 GHz	-0.44 dB @ 17.99 GHz
81543	1.32 @ 17.73 GHz	-17.10 @ 17.73 GHz	-0.44 dB @ 17.76 GHz
81545	1.34 @ 17.69 GHz	-16.77 @ 17.69 GHz	-0.44 dB @ 17.75 GHz
81546	1.27 @ 17.91 GHz	-18.44 @ 17.91 GHz	-0.42 dB @ 17.98 GHz

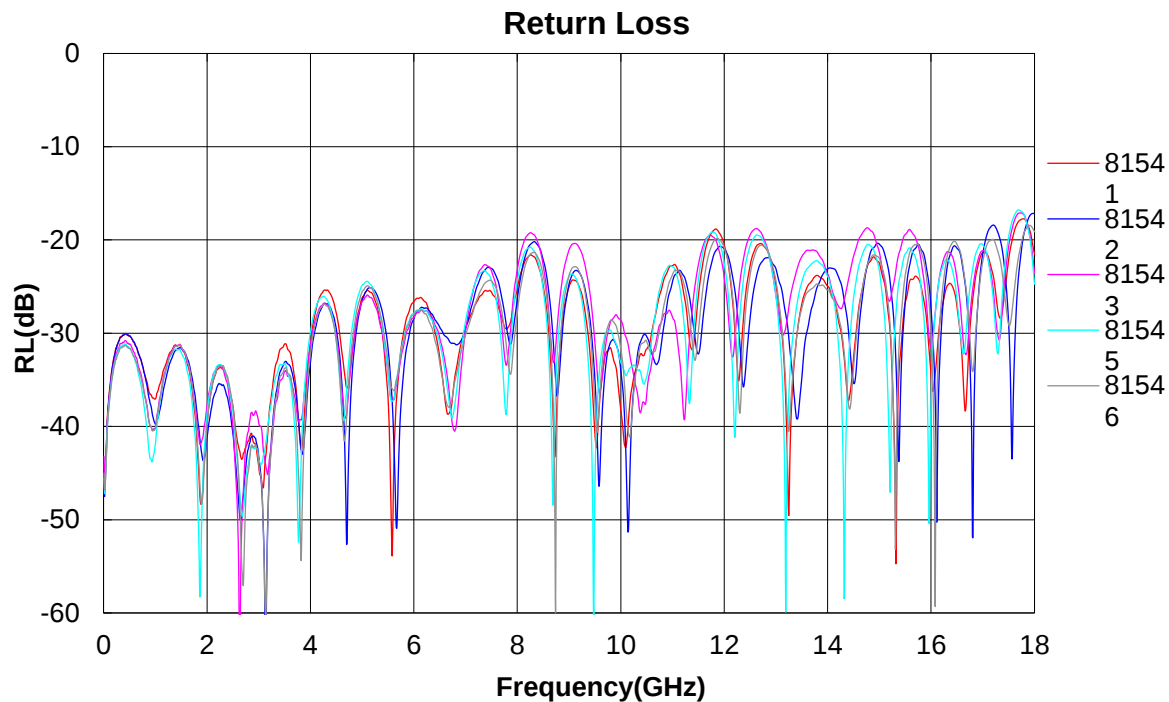
VSWR



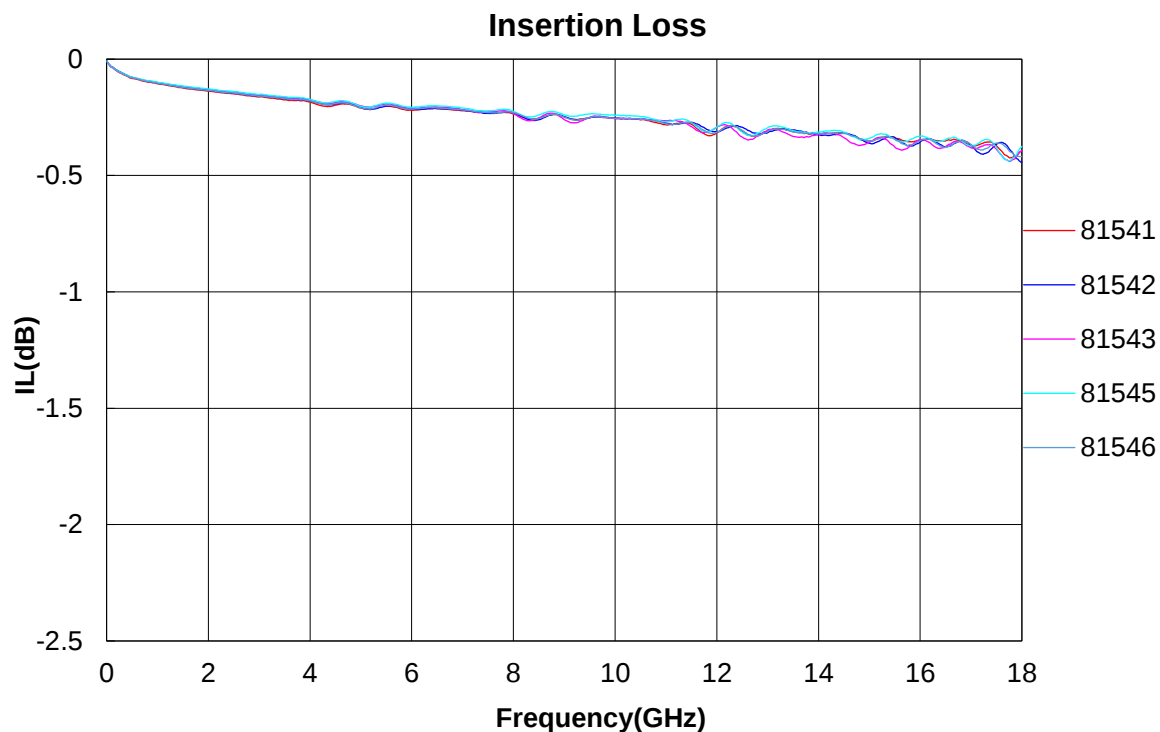
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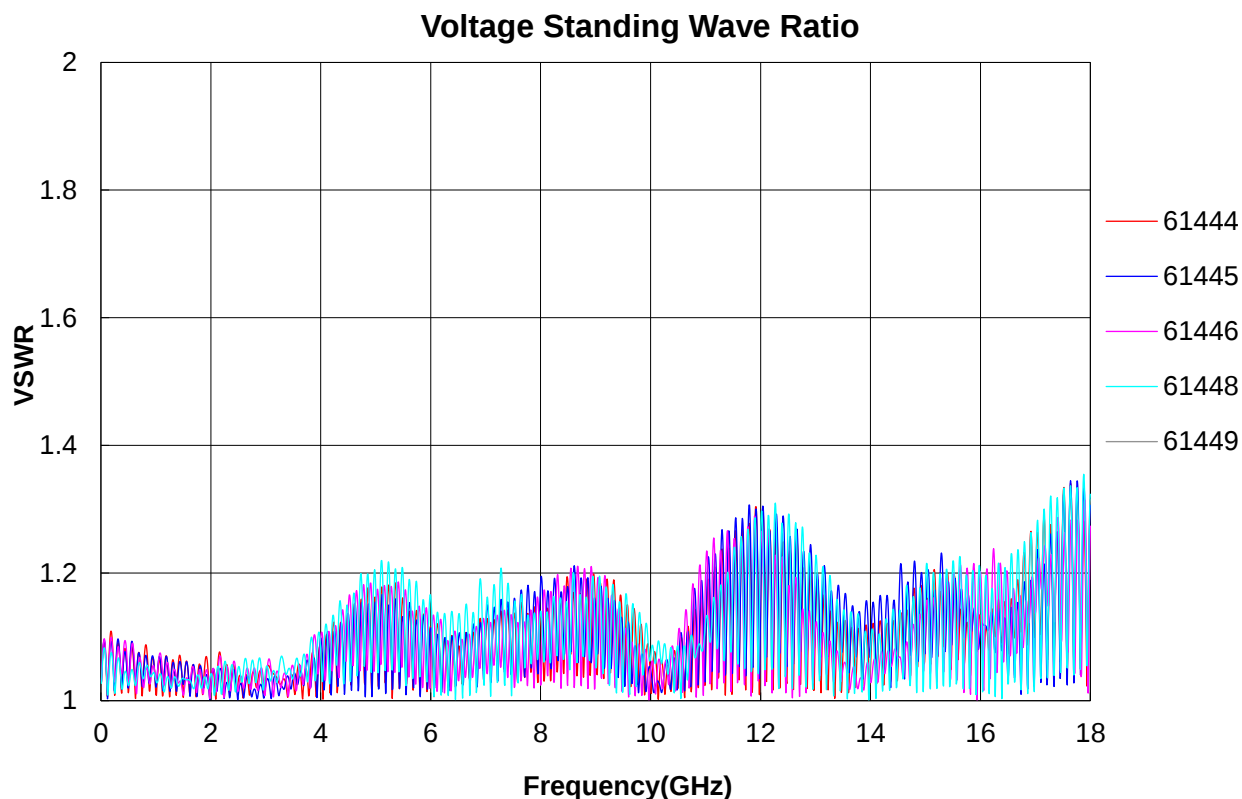
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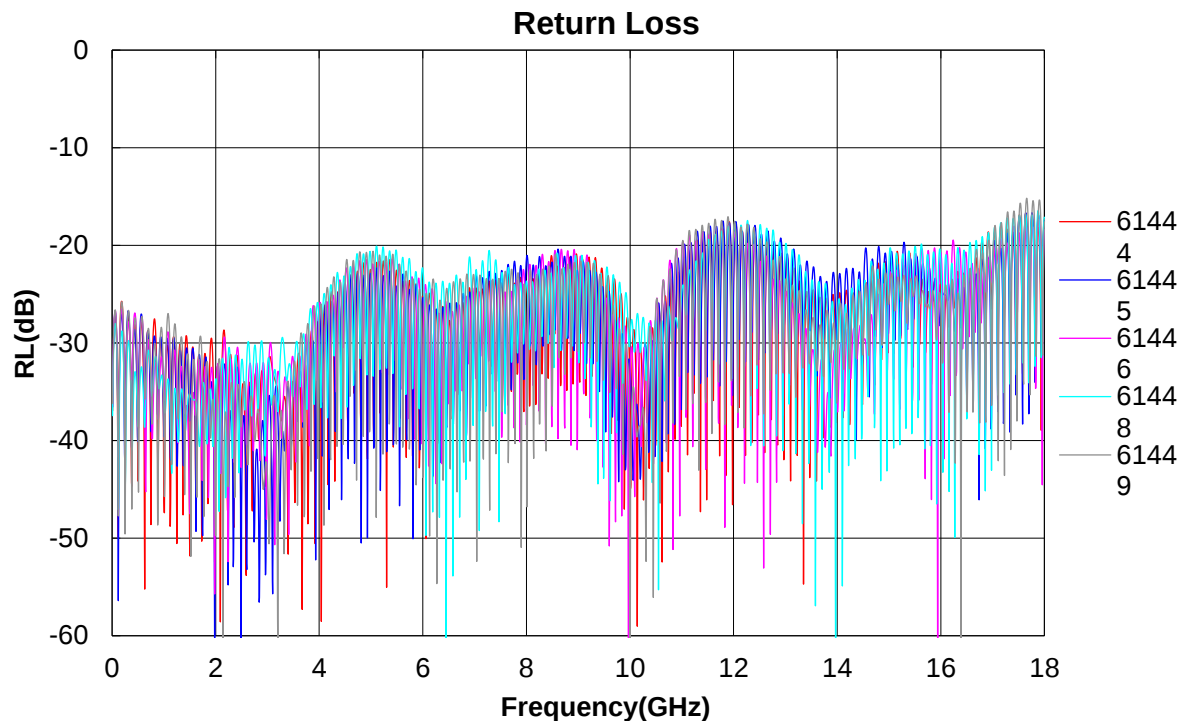
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Description: RF180 High Frequency RF Cable Assembly			
Sample	VSWR(max)	RL(max)	IL(min)
61444	1.34 @ 17.64 GHz	-16.74 @ 17.64 GHz	-1.40 dB @ 18.00 GHz
61445	1.34 @ 17.64 GHz	-16.65 @ 17.64 GHz	-1.41 dB @ 17.89 GHz
61446	1.31 @ 17.90 GHz	-17.33 @ 17.90 GHz	-1.38 dB @ 17.90 GHz
61448	1.35 @ 17.88 GHz	-16.44 @ 17.88 GHz	-1.45 dB @ 17.89 GHz
61449	1.42 @ 17.66 GHz	-15.17 @ 17.66 GHz	-1.46 dB @ 17.91 GHz

VSWR



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