

Designation : SFTP 8.24p 2000MHz
 Testorder : CAT8 S/FTP

Length : 30 m
 Test Date/Time : 13.05.2016 18:26:55

Temp : 22°C
 Sample-ID-No. : 00000944OM

Customer : B
 Cable type : SFTP
 Specification : 8.2

Drum no. : 1
 Order number : 12
 Operator : dgi

Test Result: PASS

Final inspection

Worst Case Summary

{ v = Value / = Limit m = Margin f = Frequency (MHz) p = Pair / Combo < = Lower Limit > = Upper Limit }

{ Pair/Combo: n=near, f=far f=forward, r=reverse a=wire a b=wire b }

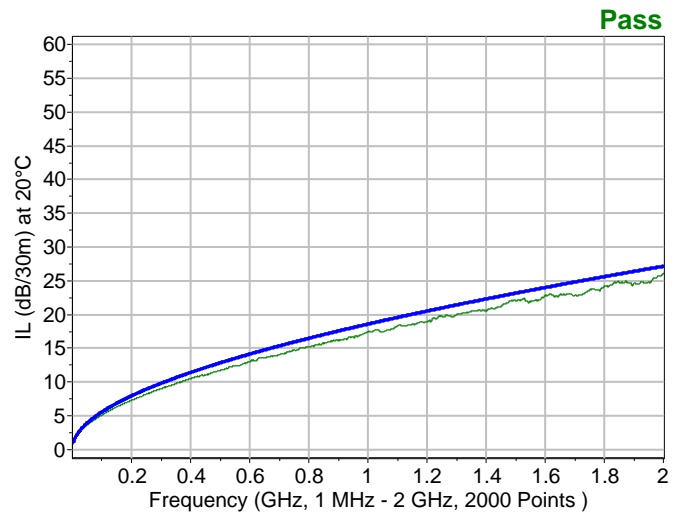
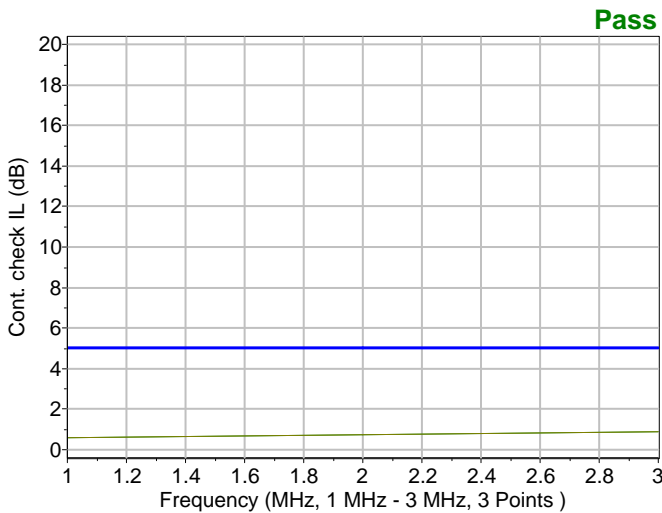
Parameter	Frequency	Points	Minimum { v [f] p }	Maximum { v [f] p }	Min. Margin { m (v l) [f] p }	Result
Cont. check IL (dB)	1-3	3	0.57 [1] 1	0.88 [3] 3	4.12 (0.88 > 5.00) [3] 3	ü
IL (dB/30m) at 20°C	1-2'000	2000	0.57 [1] 3	26.09 [2'000] 2	0.12 (1.00 > 1.12) [4] 3	ü
Phase delay (ns/30m)	1-2'000	2000	143.74 [1'886] 3	151.77 [1] 3	16.69 (143.75 > 160.44) [1'979] 3	ü
Skew (ns/30m)	1-2'000	2000	0.00 [12] 1-4	0.44 [1] 3-4	7.06 (0.44 > 7.50) [1] 3-4	ü
NEXT (dB)	1-2'000	2000	69.04 [1'778] 1-2	102.75 [11] 2-4	4.71 (80.38 < 75.67) [96] 1-3	ü
PS NEXT (dB)	1-2'000	2000	67.34 [1'998] 4	99.69 [11] 1	7.01 (79.68 < 72.67) [96] 1	ü
FEXT (dB)	1-2'000	2000	78.95 [1'941] 1-4	104.76 [11] 2-3		
ACR-F (dB)	1-2'000	2000	54.2 [1'941] 1-4	103.2 [11] 2-3		
PS ACR-F (dB)	1-2'000	2000	52.5 [1'941] 3	100.6 [11] 2		
ZIN (Ohm)	1-2'000	2000	90.04 [791] 1	134.98 [1'915] 4		
Z0 (Ohm) (4th Order)	1-2'000	2000	101.04 [9] 3	115.94 [1] 4		
RL (dB)	1-2'000	2000	15.95 [1'931] 4	42.34 [7] 4	2.57 (19.93 < 17.36) [494] 3	ü
IL dd (dB/30m) at 20°C f	1-2'000	801	0.57 [1] 3	26.10 [2'000] 2		
IL dd (dB/30m) at 20°C r	1-2'000	801	0.57 [1] 4	26.13 [1'995] 3		
RL cc (dB) n	1-2'000	801	7.8 [1'923] 2	42.7 [3.499] 2		
RL cc (dB) f	1-2'000	801	4.4 [1'253] 1	43.1 [3.499] 3		
IL cc (dB/30m) at 20°C f	1-2'000	801	0.59 [1] 2	26.85 [1'890] 2		
IL cc (dB/30m) at 20°C r	1-2'000	801	0.59 [1] 4	26.77 [1'890] 2		
TCL cd (dB) f	1-2'000	801	15.2 [1'223] 2	60.1 [28.49] 4		
TCL cd (dB) r	1-2'000	801	18.5 [1'833] 1	58.1 [38.48] 4		
ELTCTL cd (dB) f	1-2'000	801	15.9 [1'350] 1	58.7 [1] 3		
ELTCTL cd (dB) r	1-2'000	801	15.2 [1'290] 4	57.3 [1] 3		

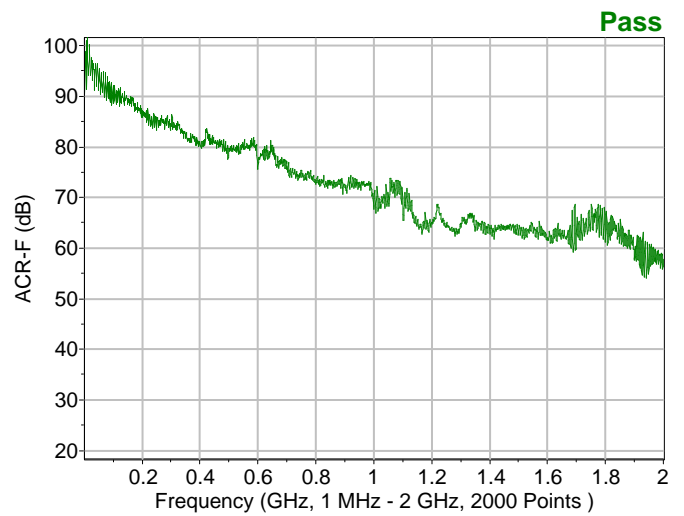
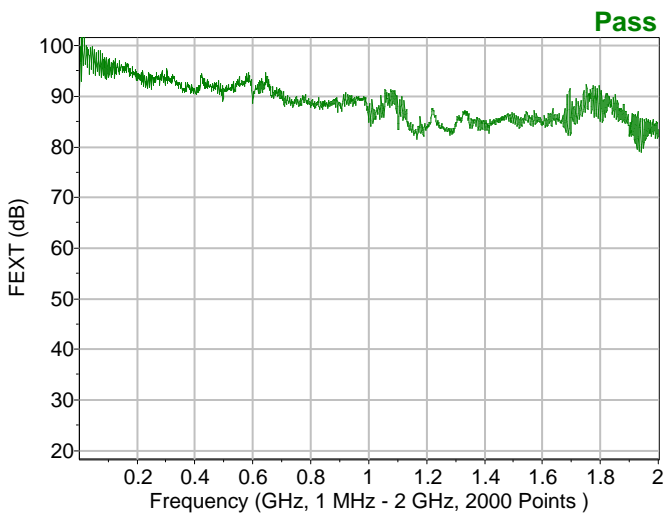
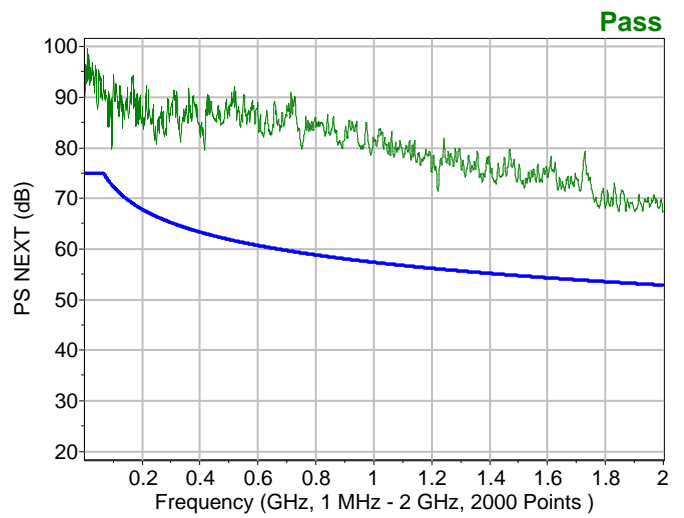
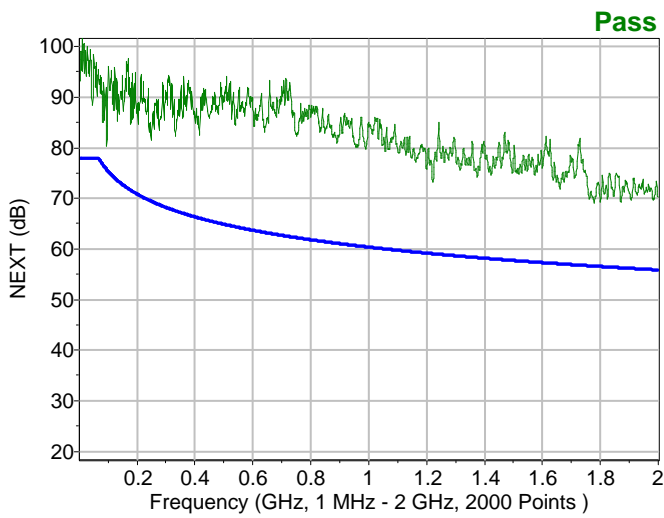
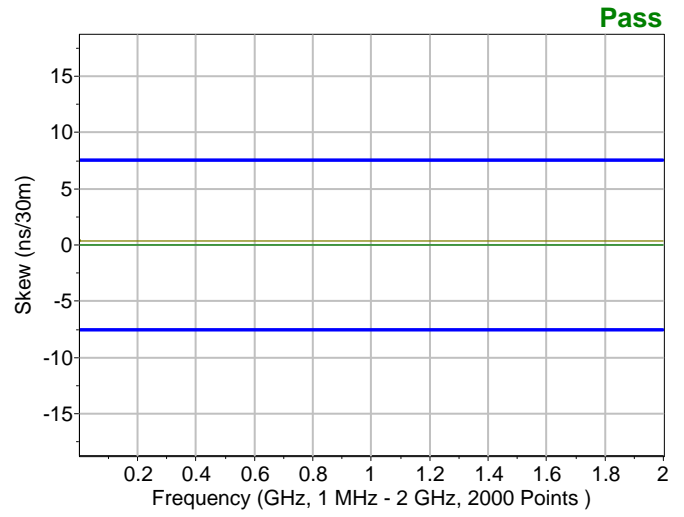
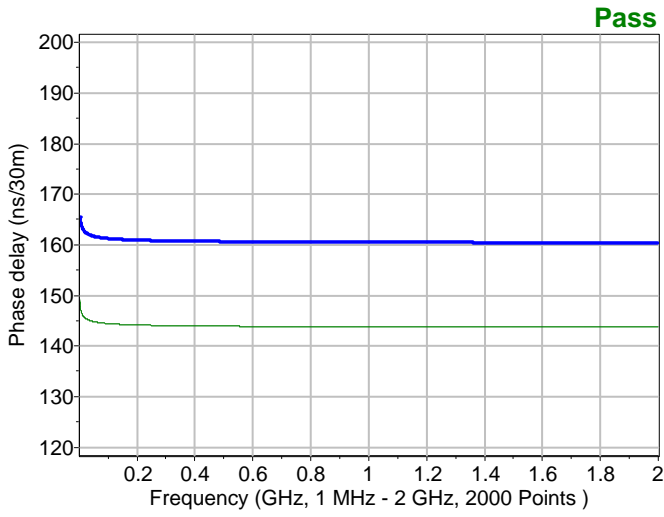
Legend

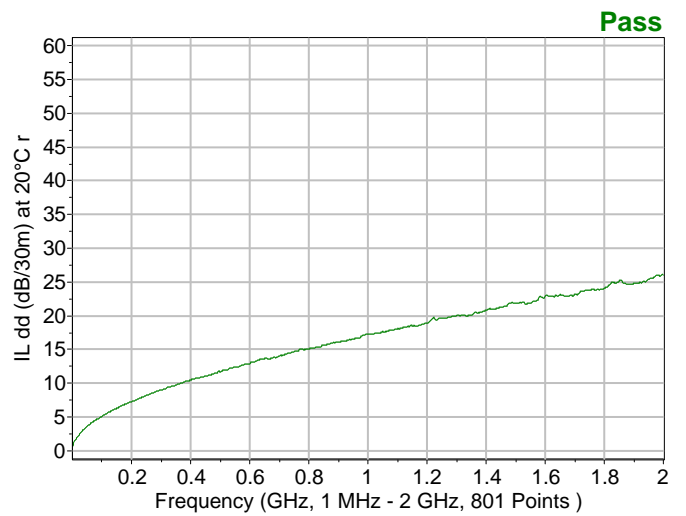
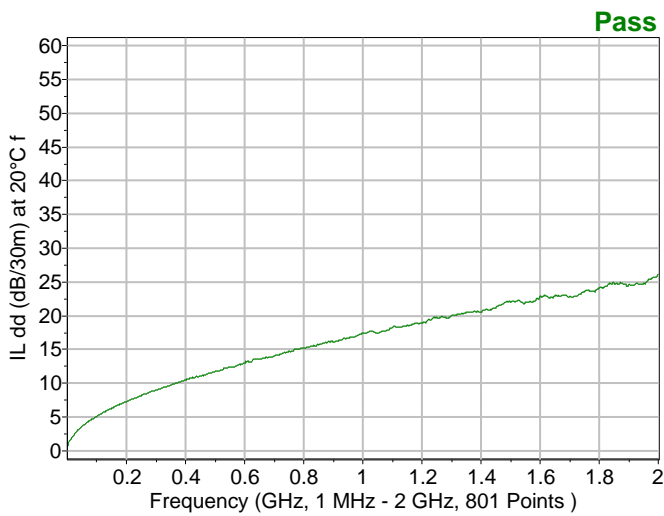
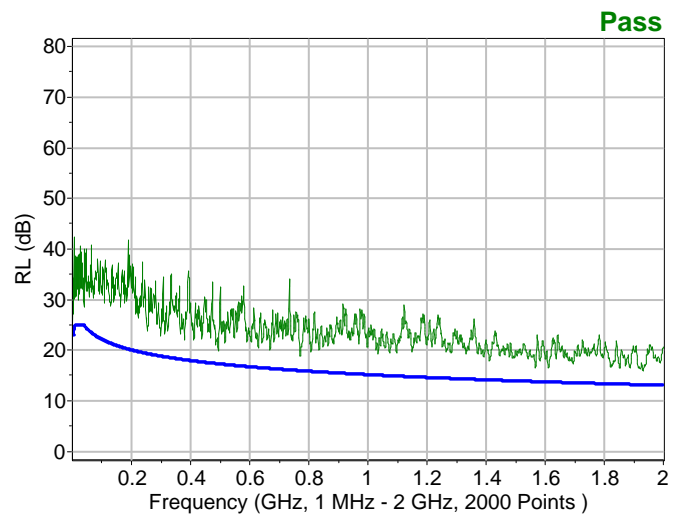
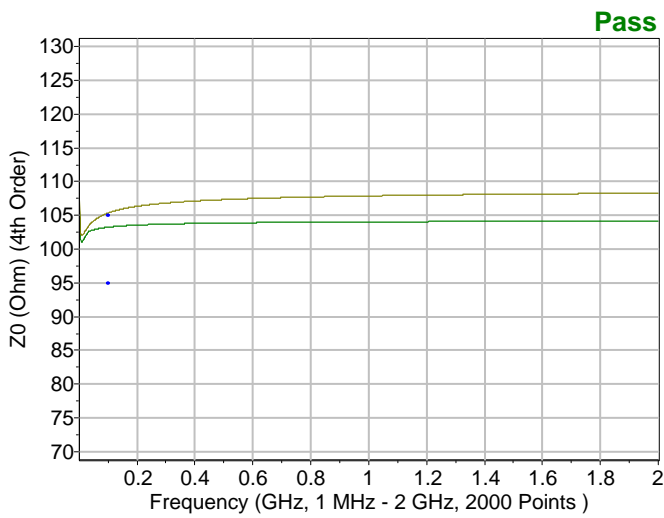
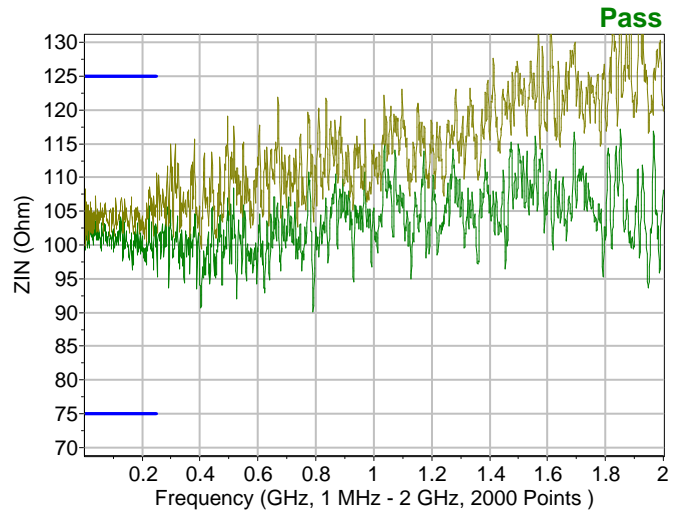
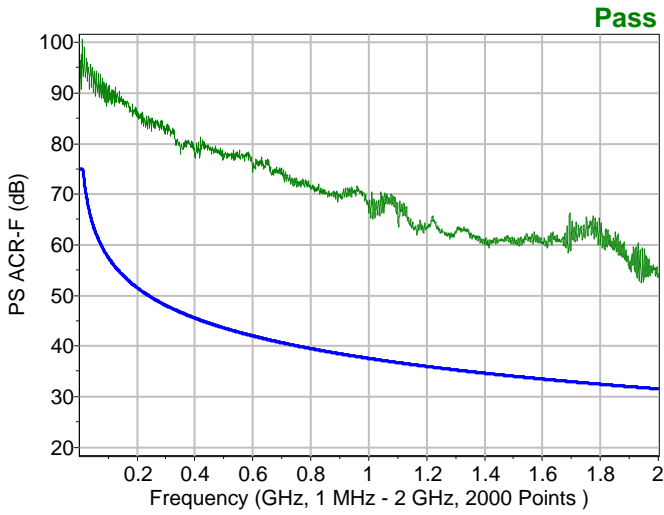
Cont. check IL = Continuity check IL
 NEXT = Near End Crosstalk
 ACR-F = Attenuation Crosstalk-F Ratio
 Z0 = Fitted Impedance
 RL cc = Return Loss cc
 ELTCTL cd = Equal Level TCTL cd

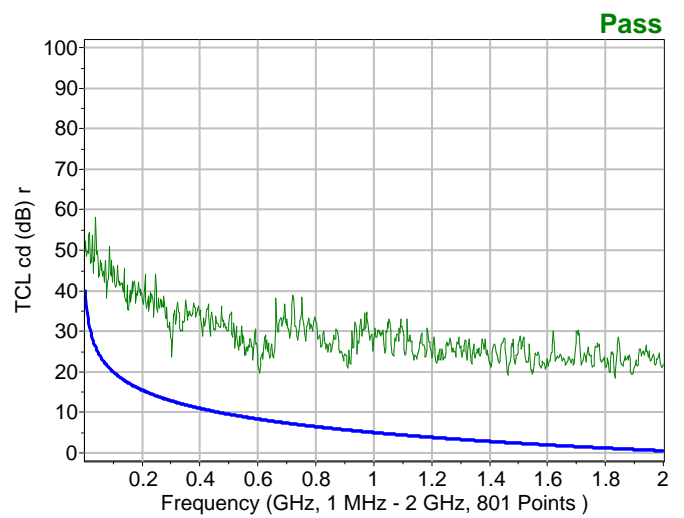
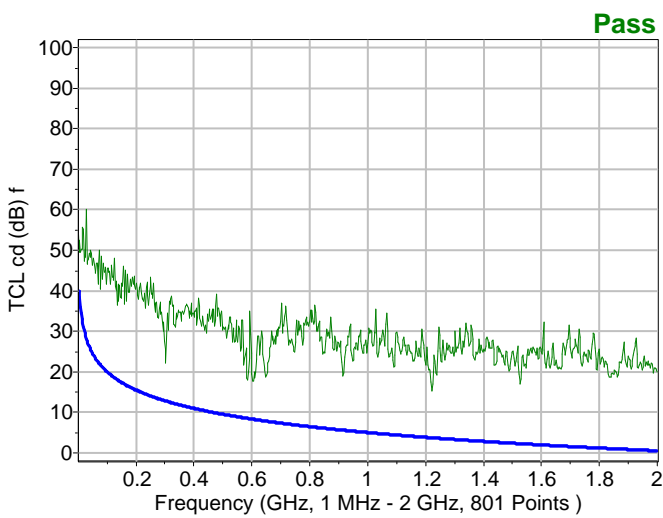
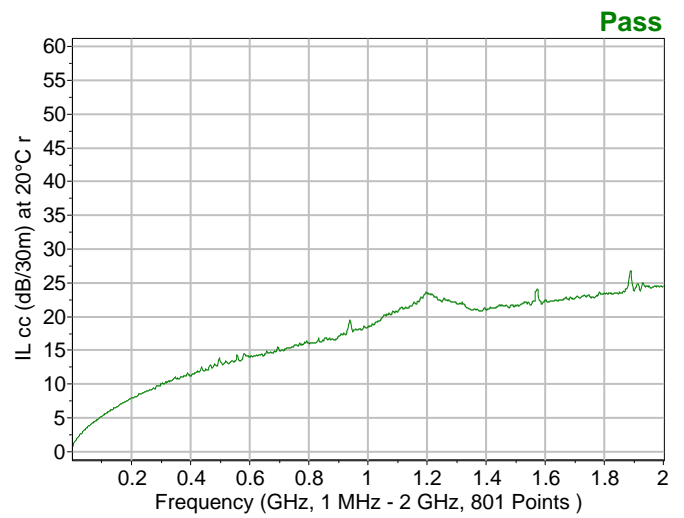
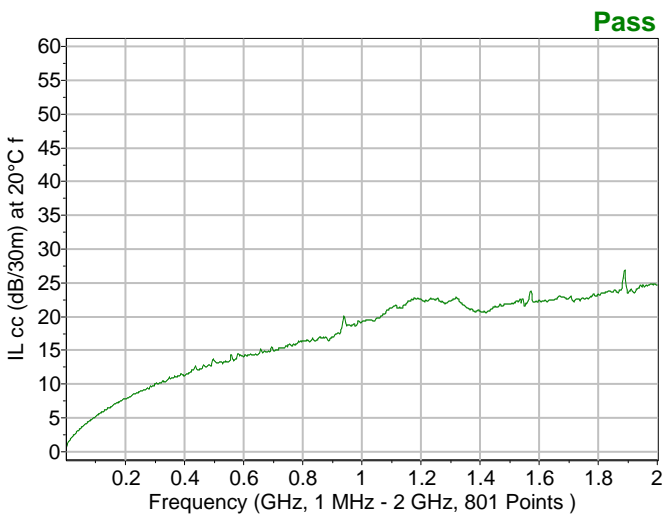
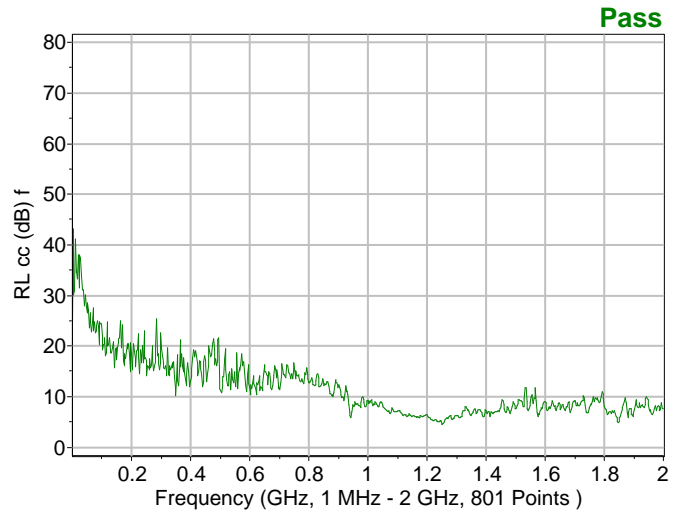
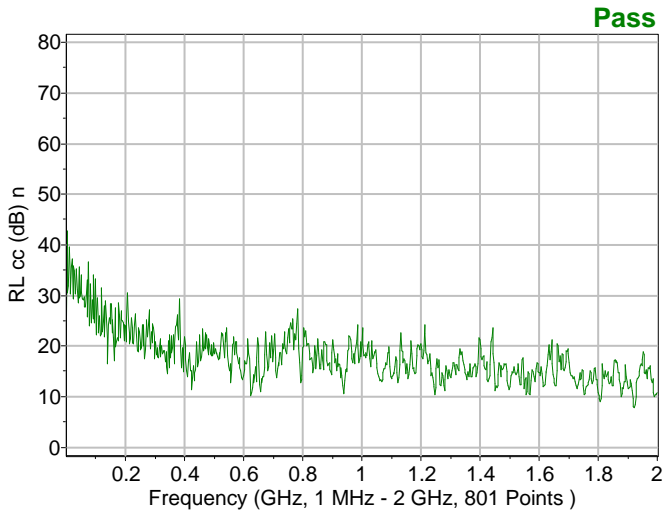
Phase delay = Phase delay
 PS NEXT = Power Sum NEXT
 PS ACR-F = Power Sum ACR-F
 RL = Return Loss
 IL cc = Insertion loss cc

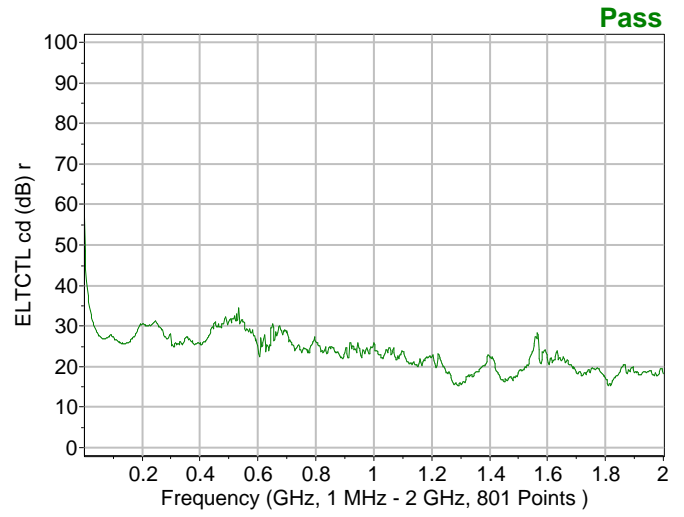
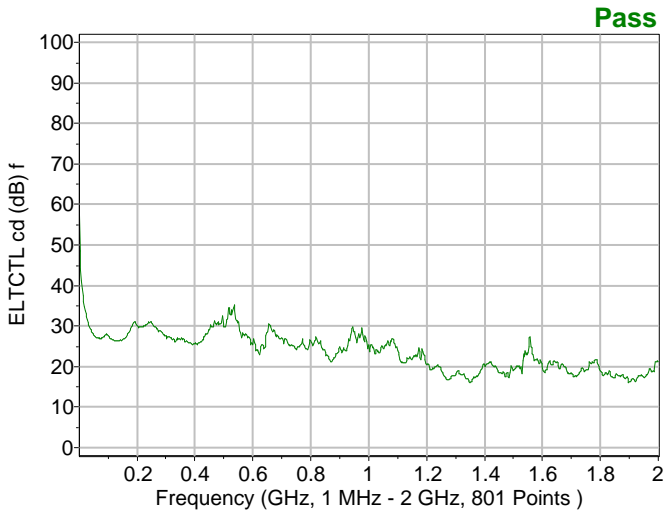
Skew = Skew
 FEXT = Far End Crosstalk
 ZIN = Input Impedance
 IL dd = Insertion loss dd
 TCL cd = transverse conv. loss cd





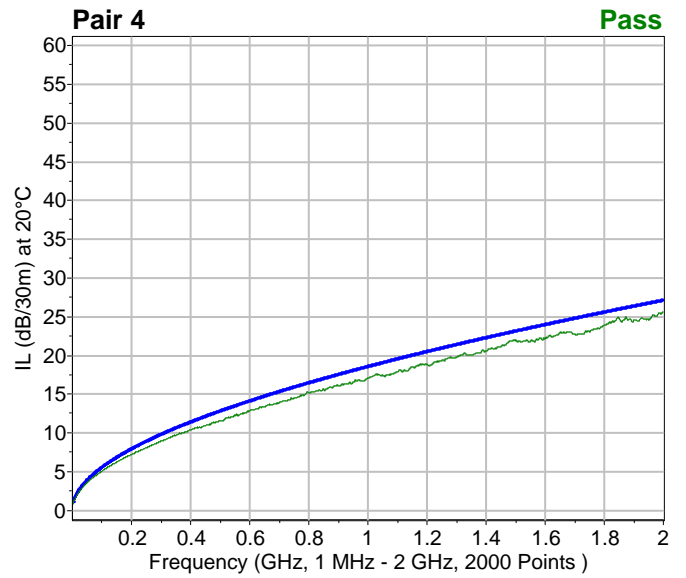
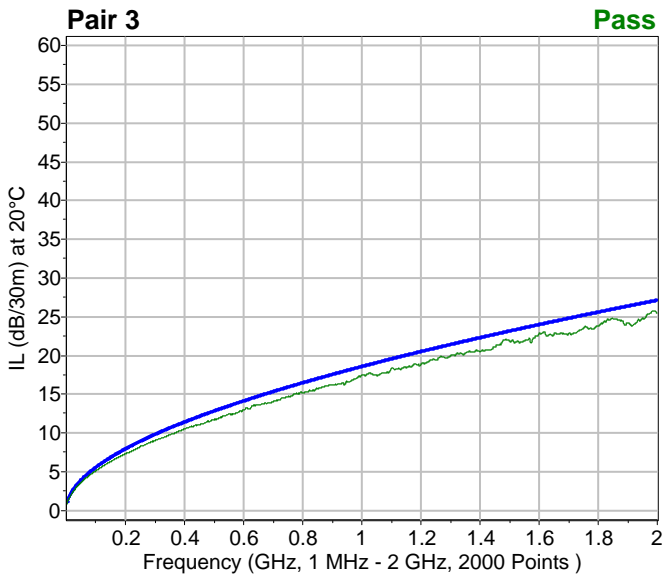
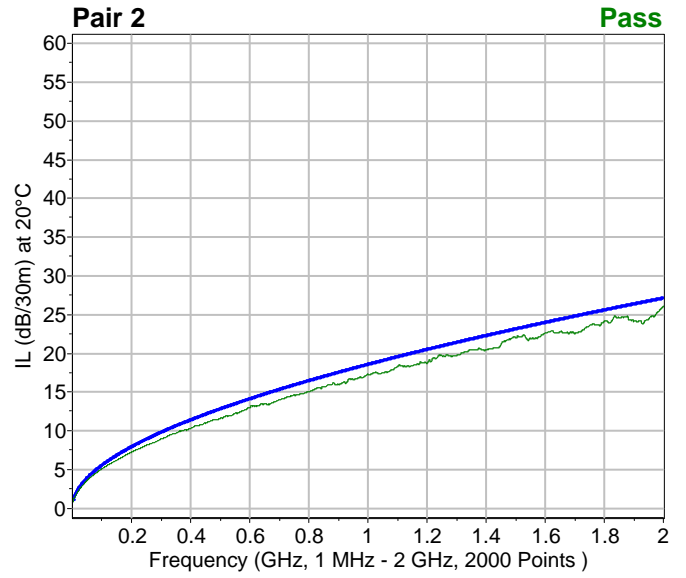
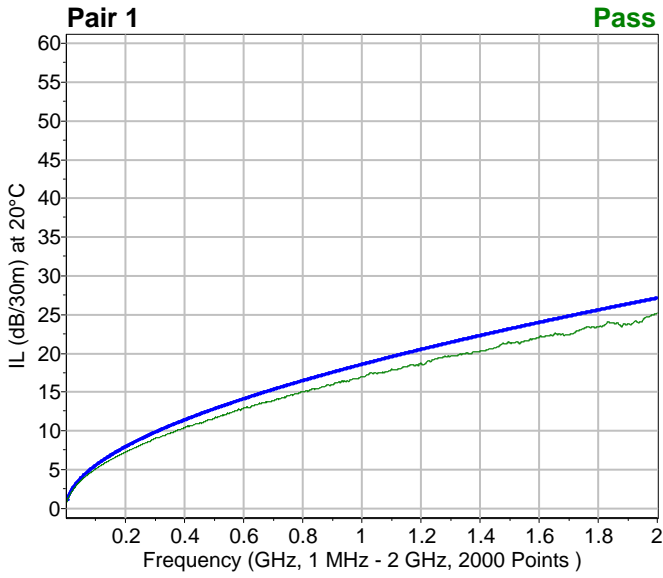






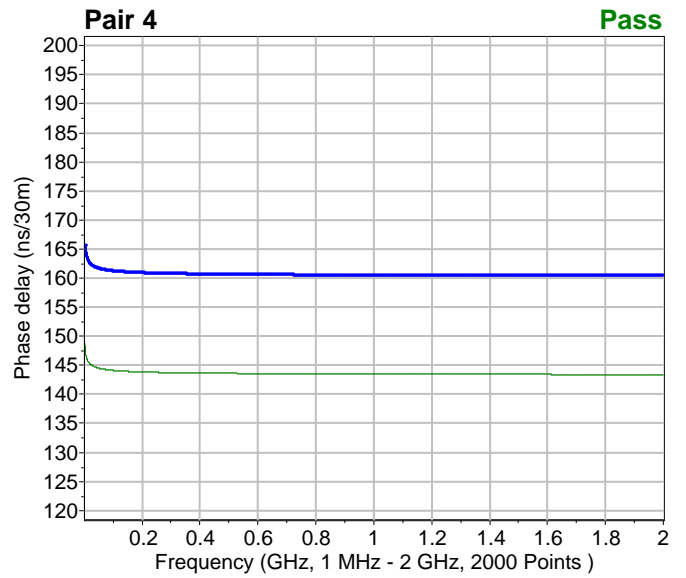
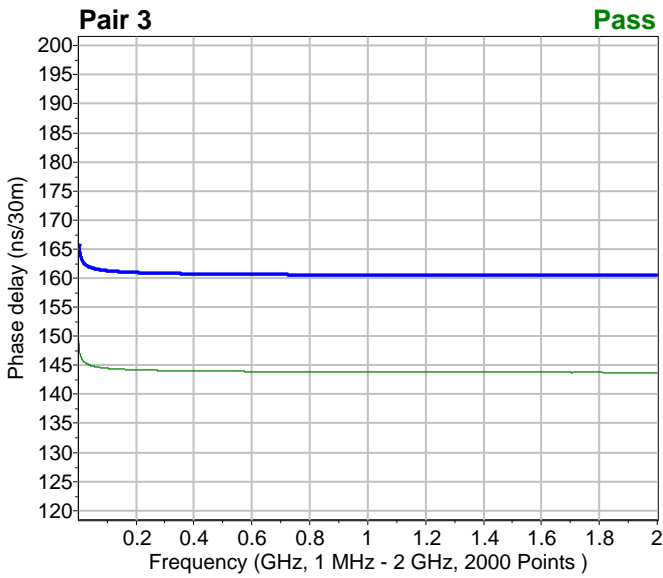
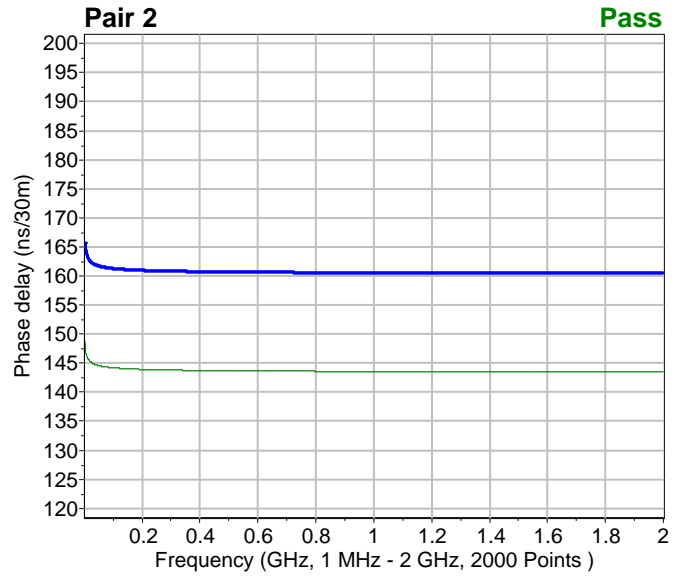
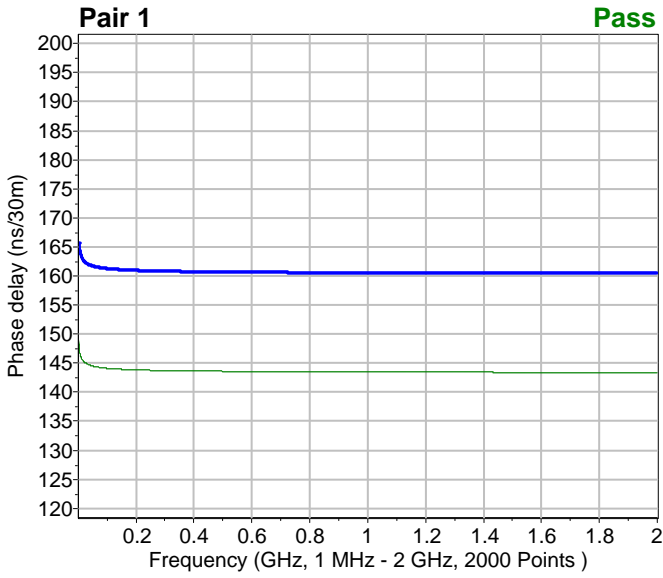


Summary and Graphic: Insertion loss (IL)



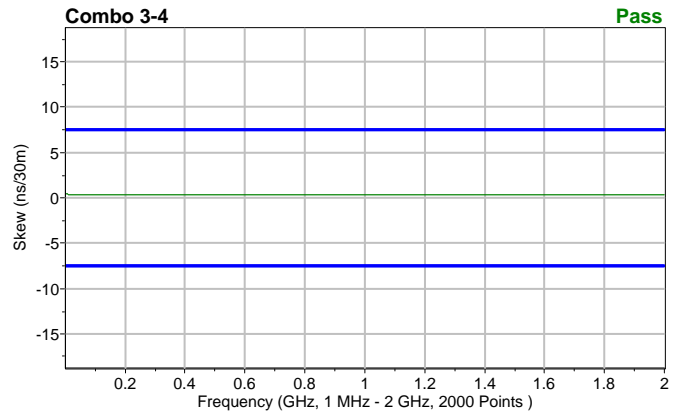
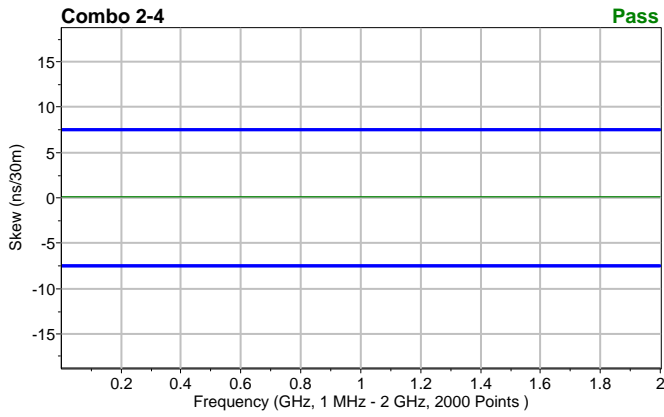
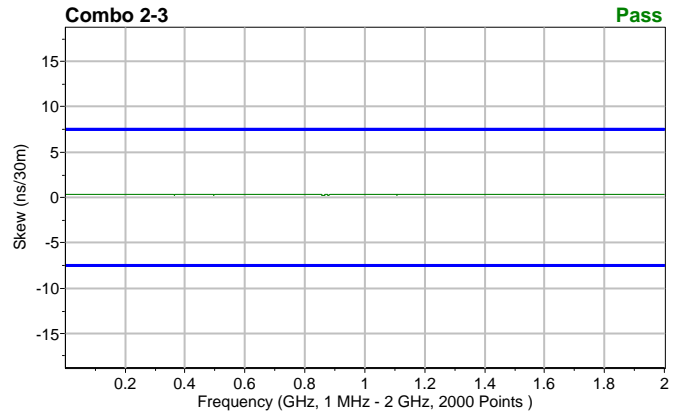
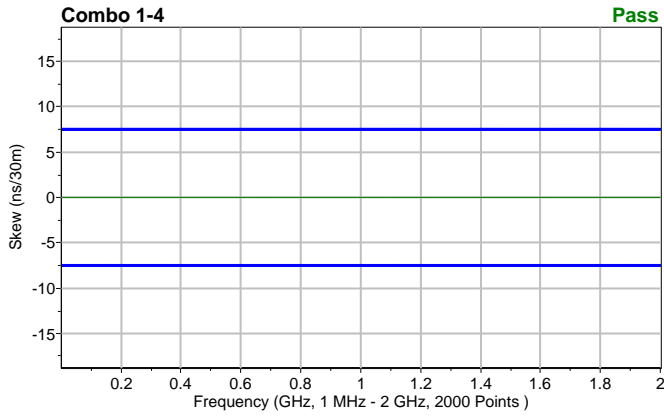
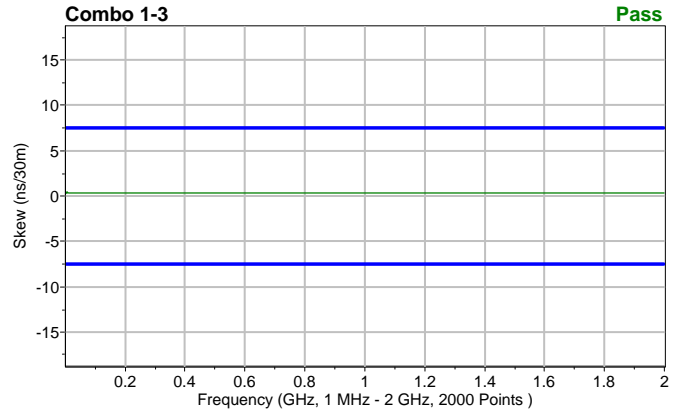
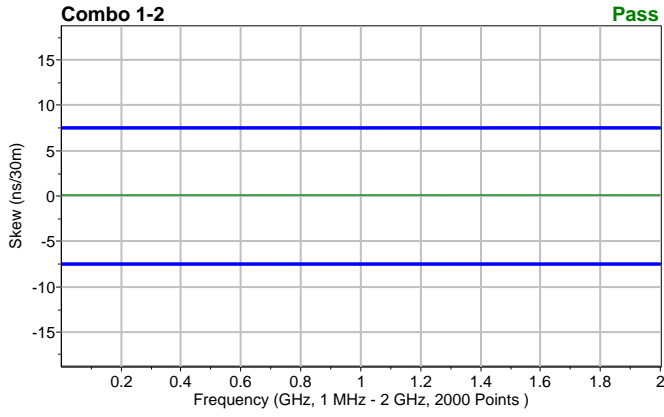


Summary and Graphic: Phase delay (Phase delay)



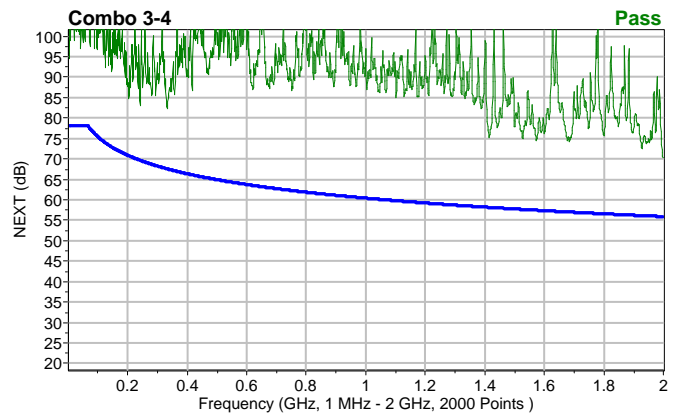
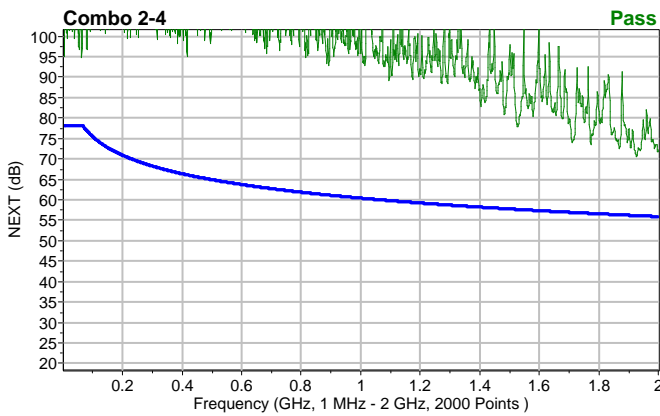
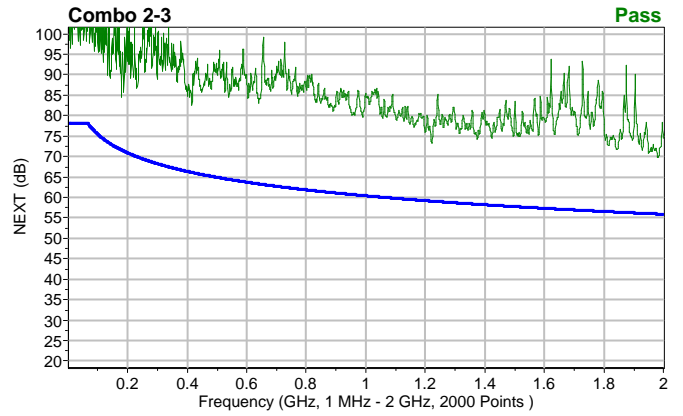
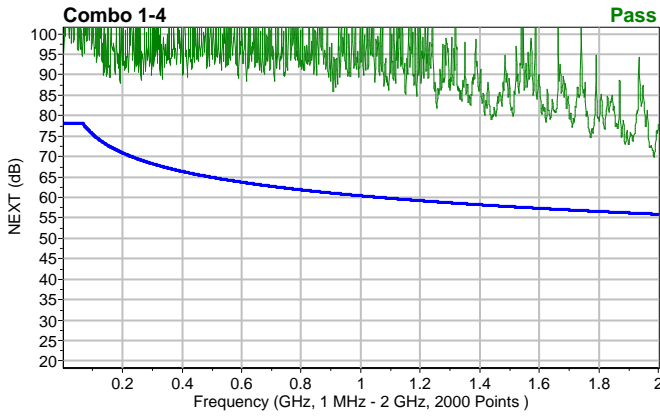
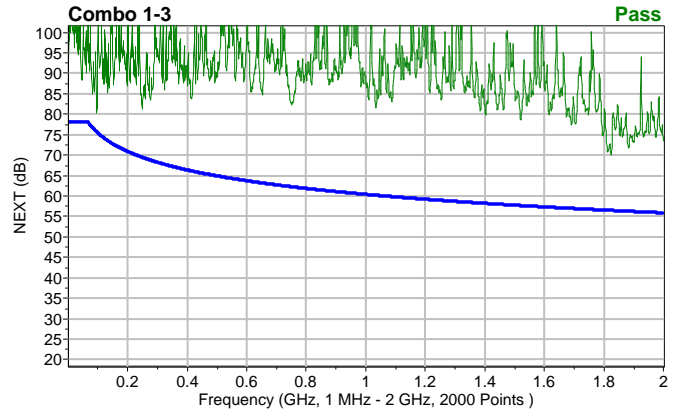
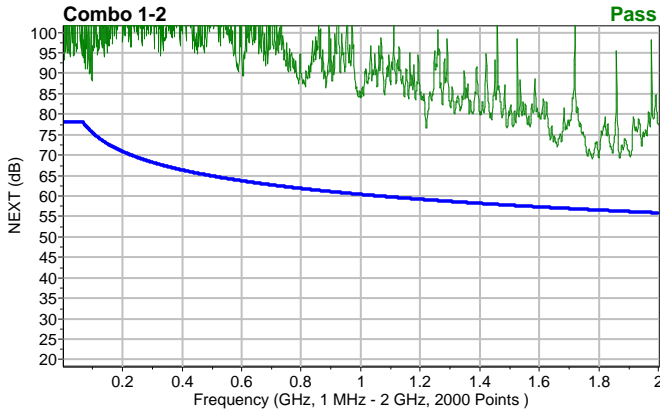


Summary and Graphic: Skew (Skew)



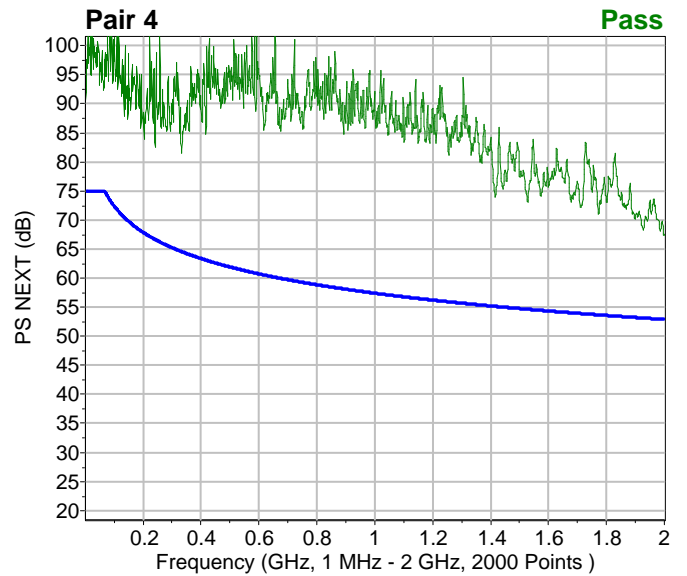
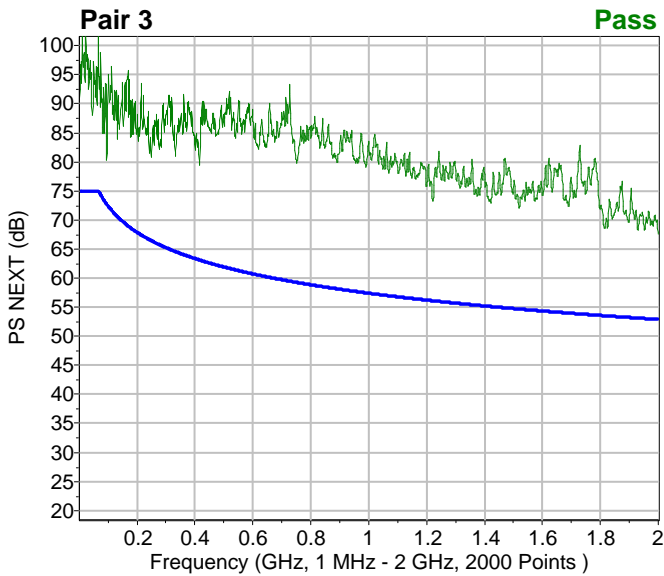
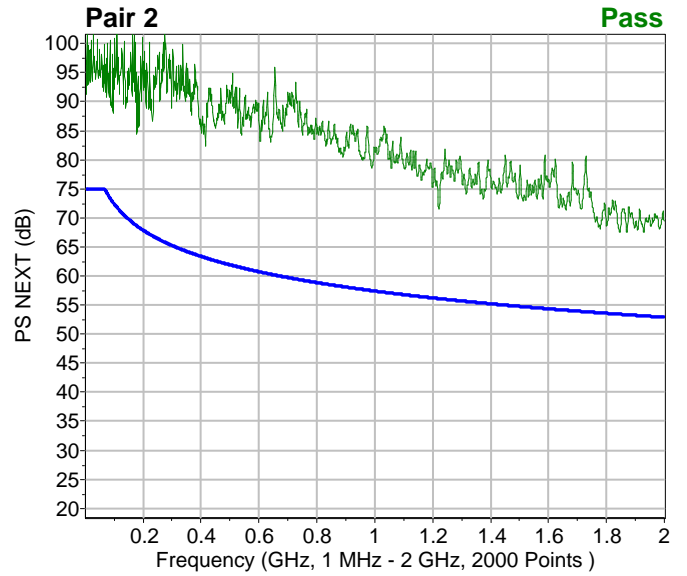
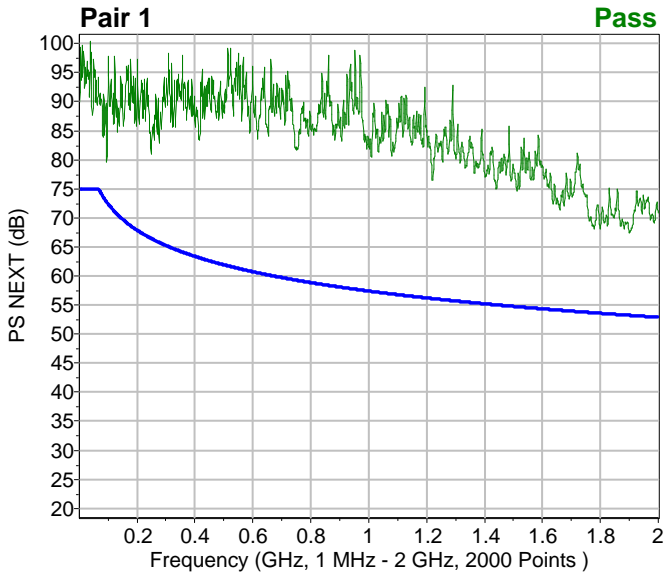


Summary and Graphic: Near End Crosstalk (NEXT)



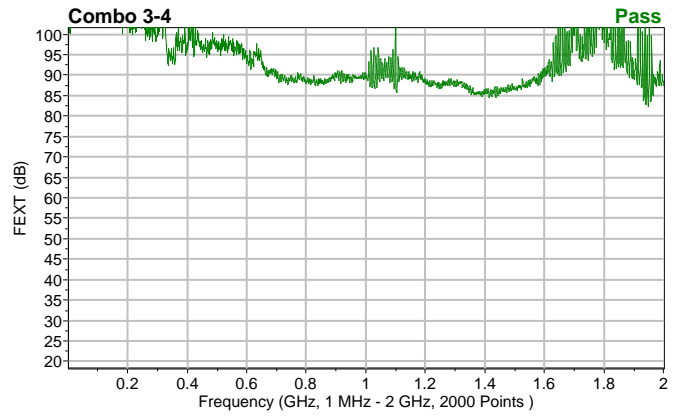
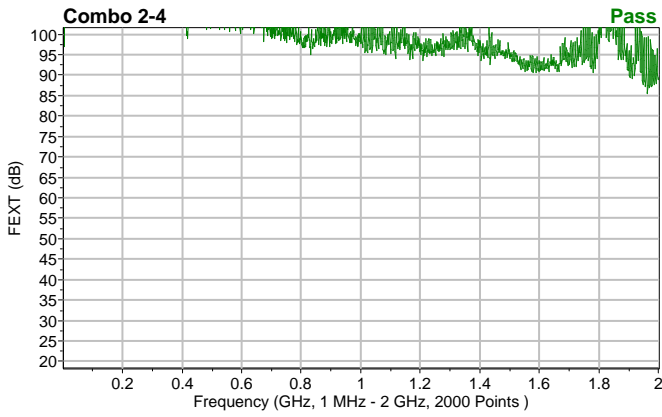
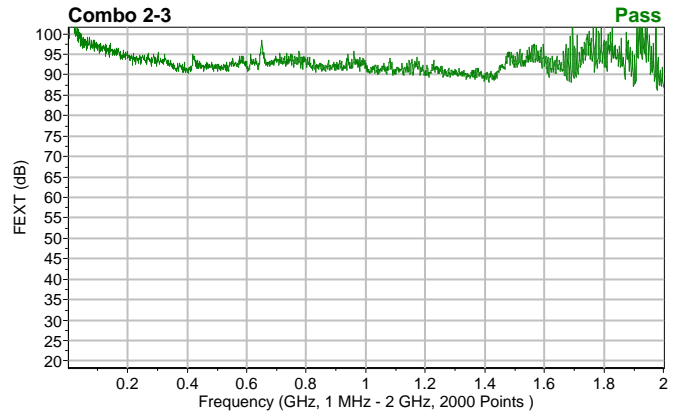
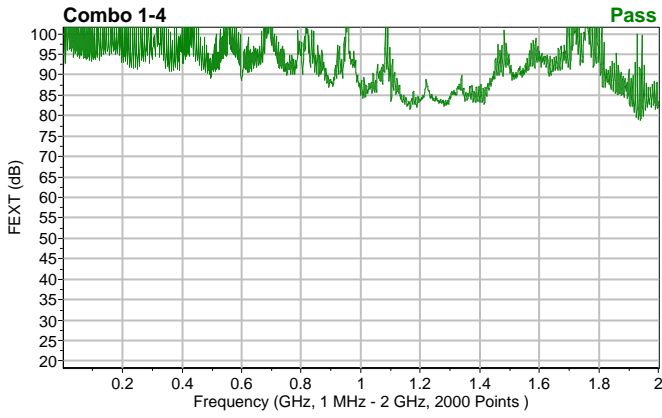
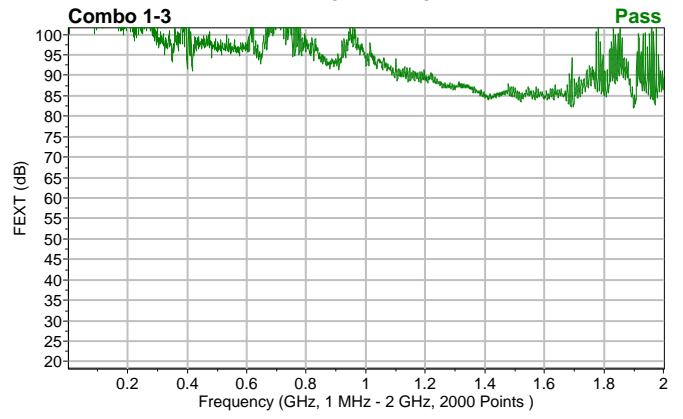
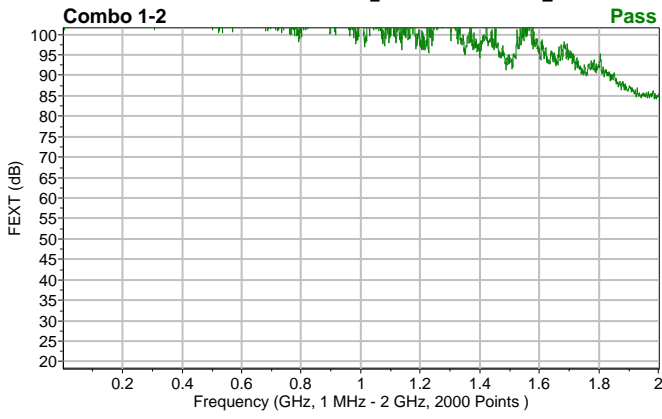


Summary and Graphic: Power Sum NEXT (PS NEXT)



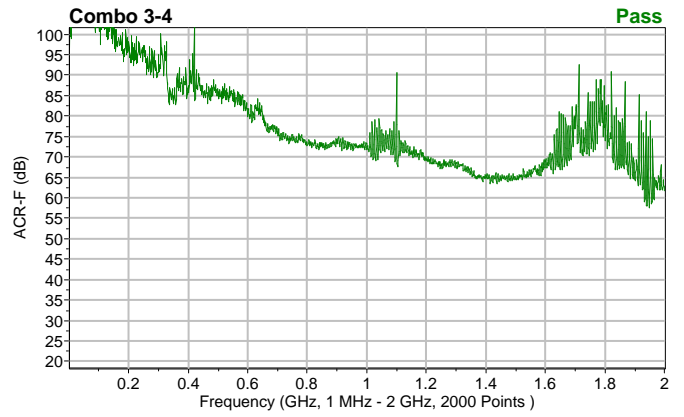
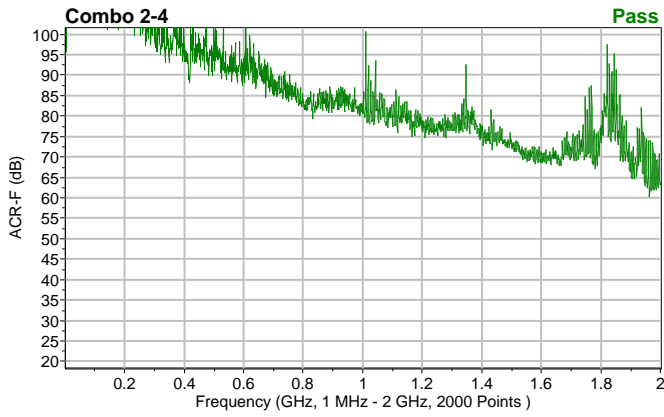
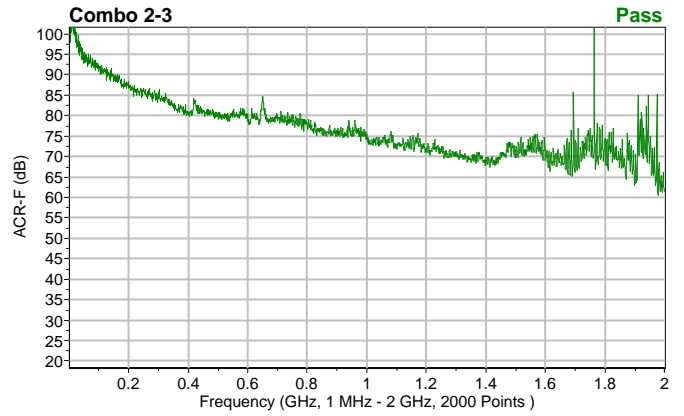
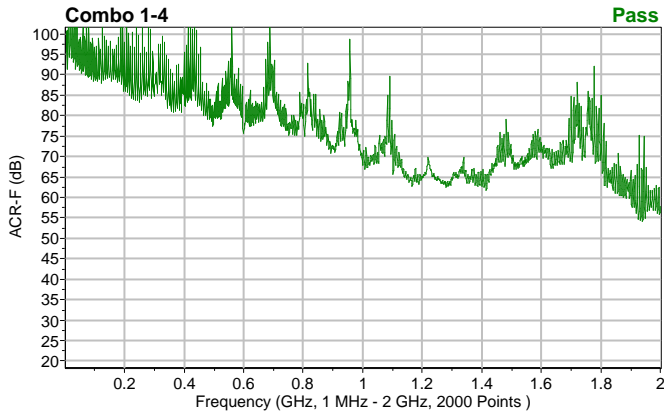
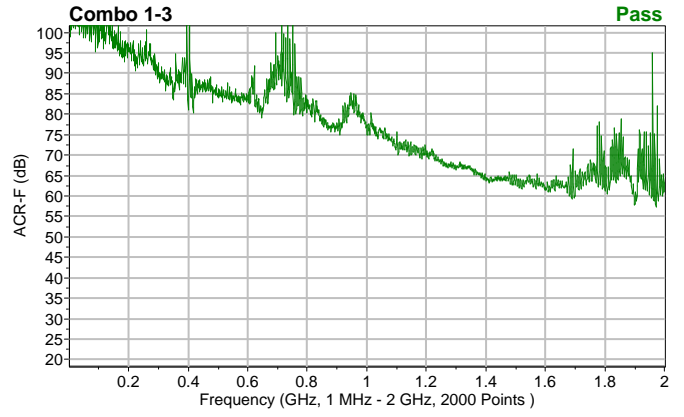
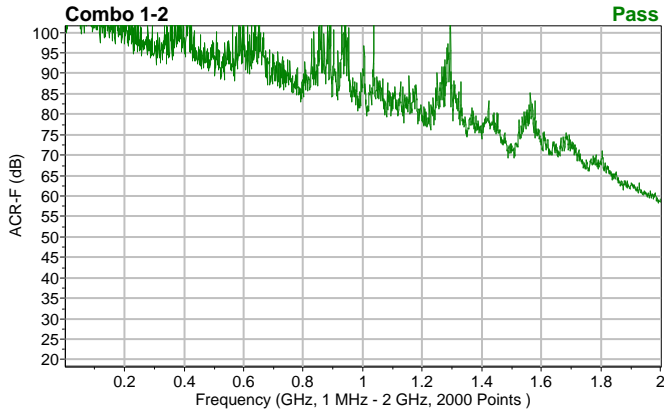


Summary and Graphic: Far End Crosstalk (FEXT)



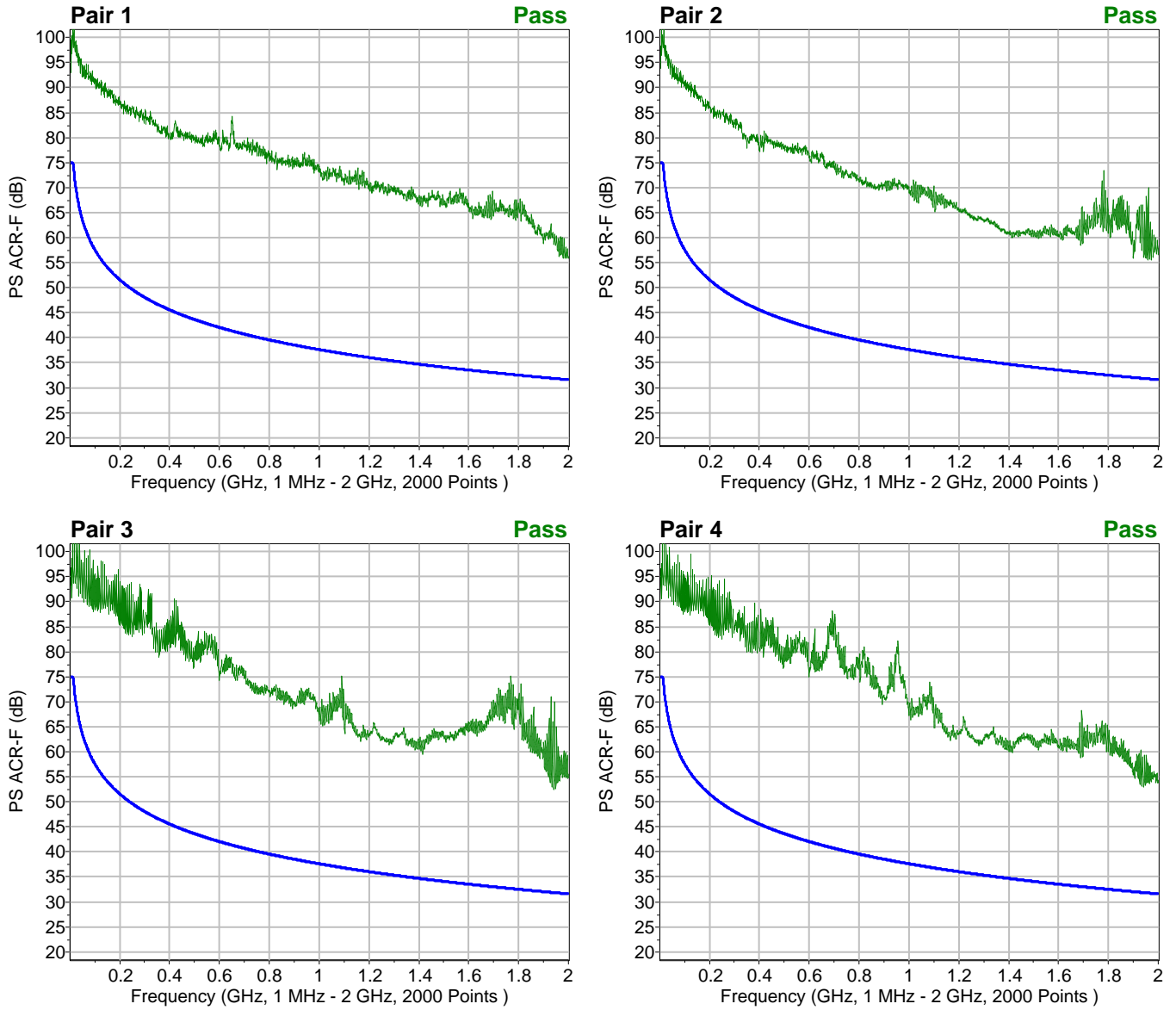


Summary and Graphic: Attenuation Crosstalk-F Ratio (ACR-F)



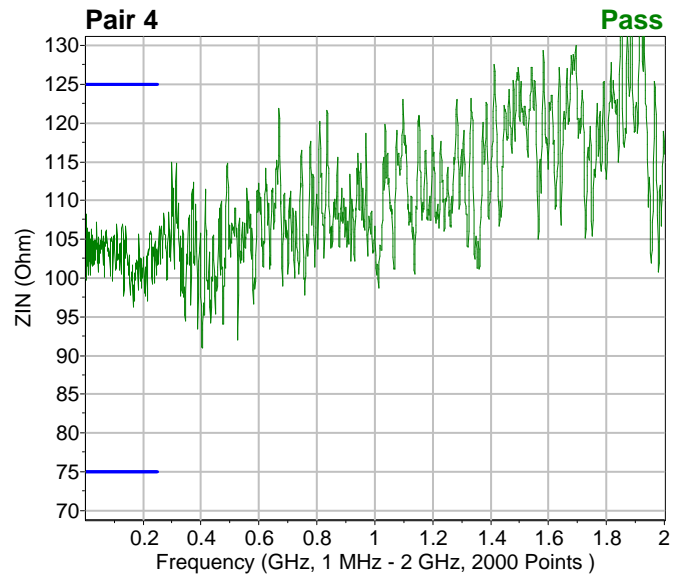
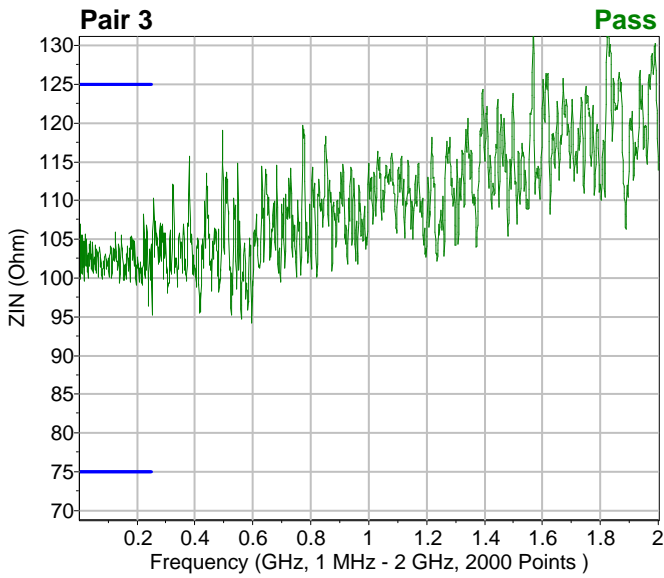
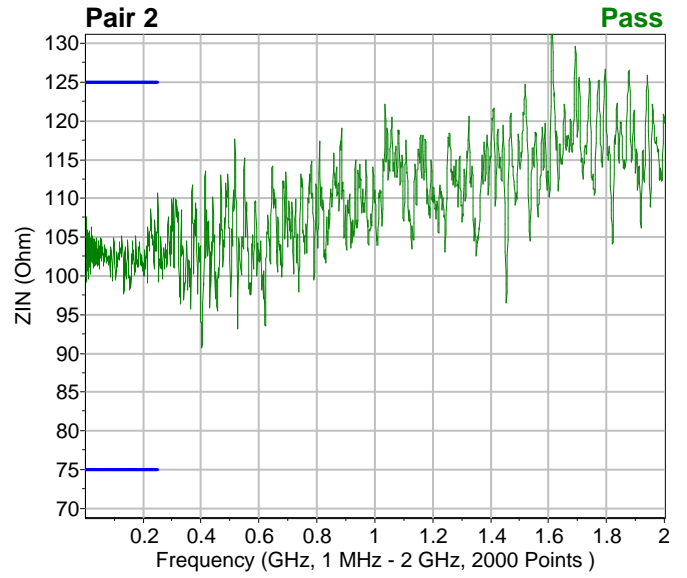
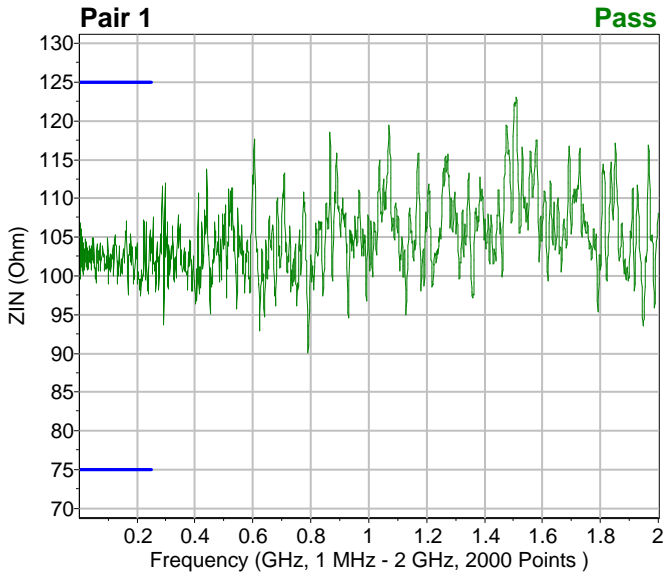


Summary and Graphic: Power Sum ACR-F (PS ACR-F)



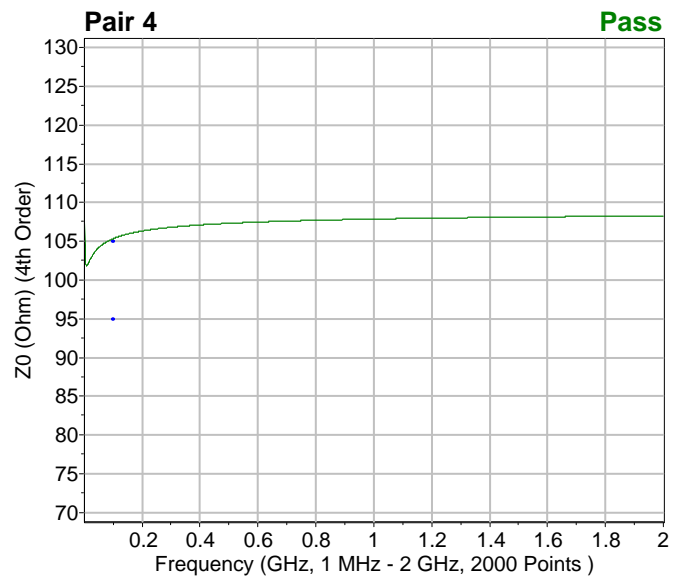
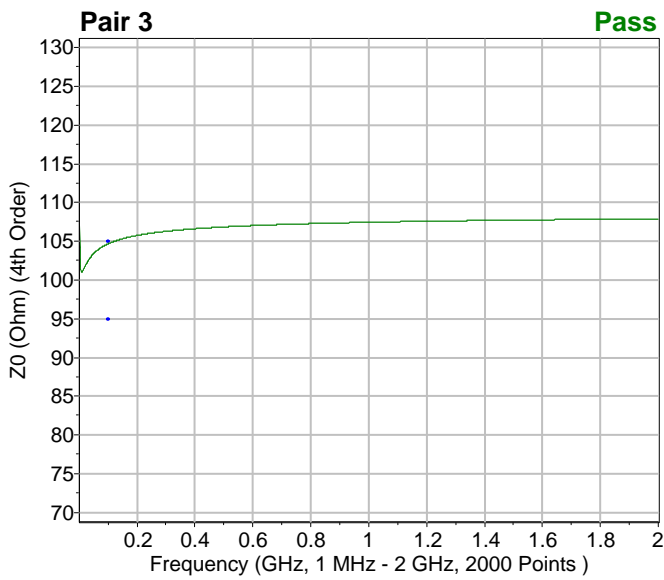
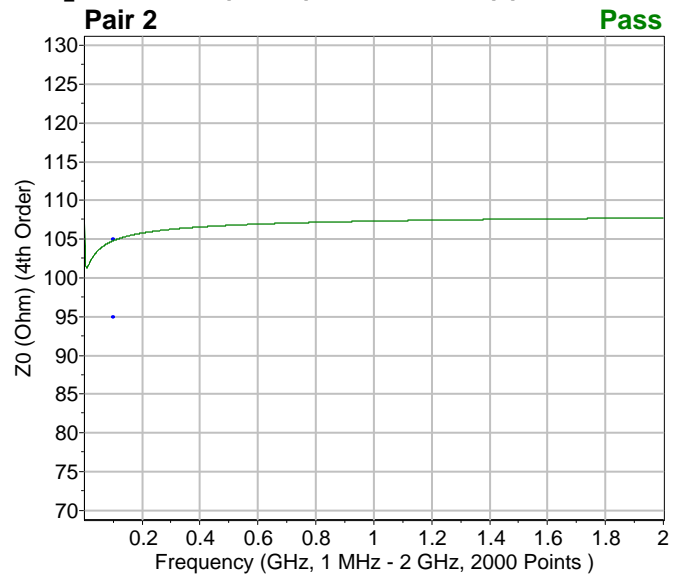
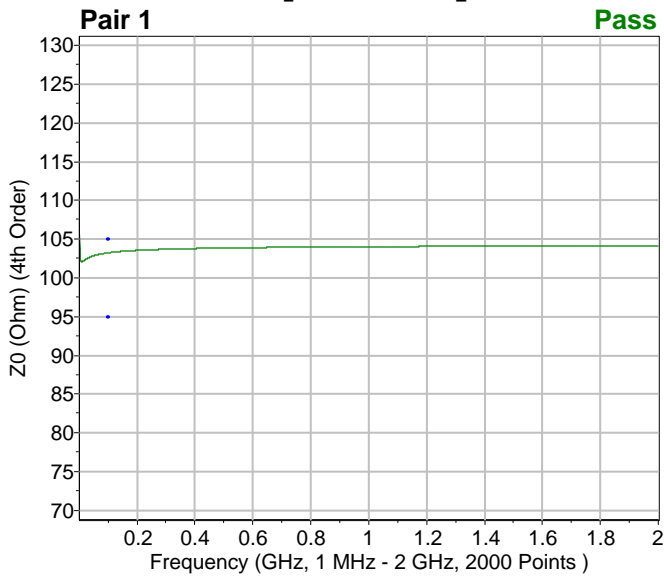


Summary and Graphic: Input Impedance (ZIN)

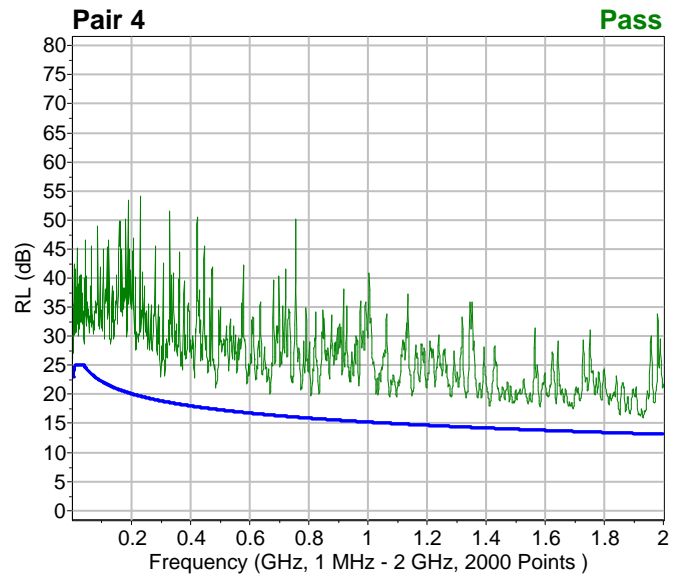
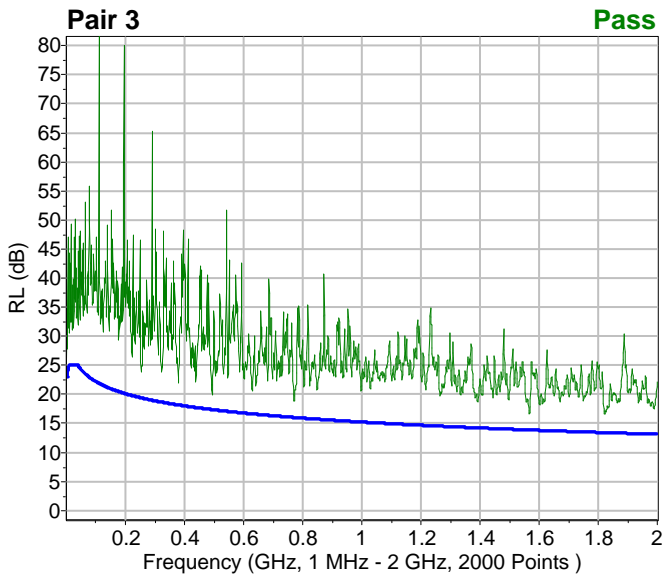
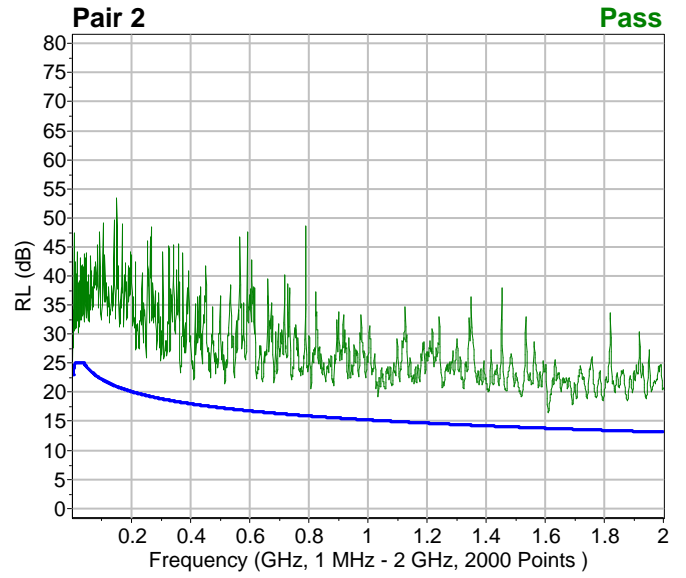
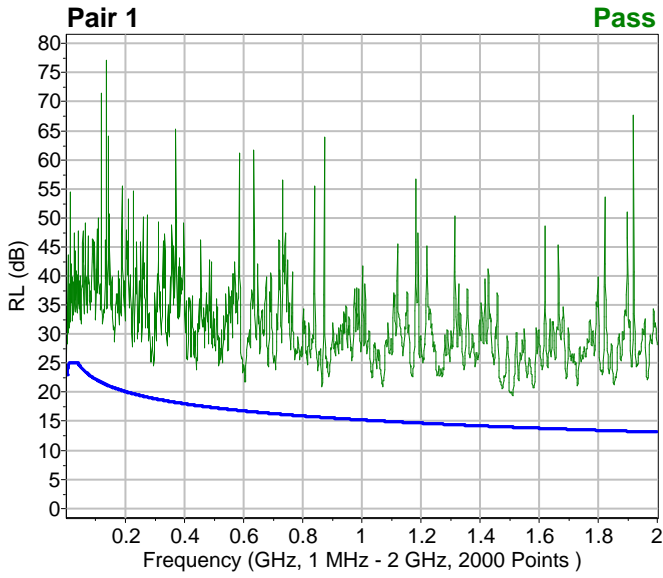




Summary and Graphic: Fitted Impedance (Z0 (4th Order))



Summary and Graphic: Return Loss (RL)



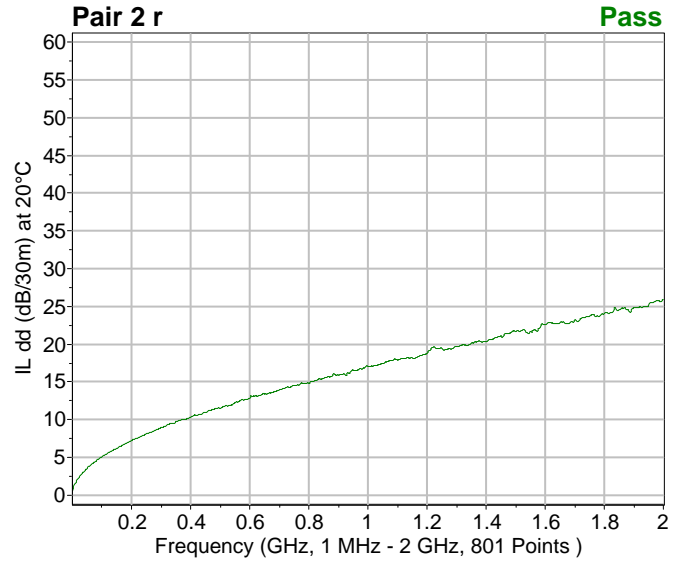
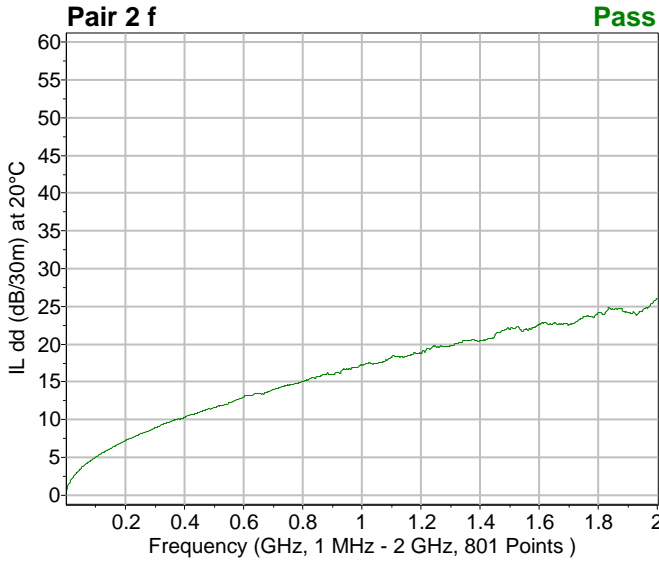
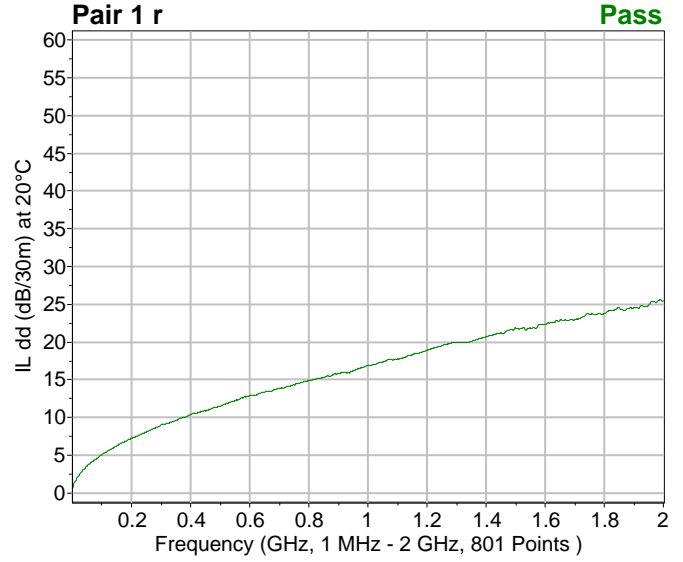
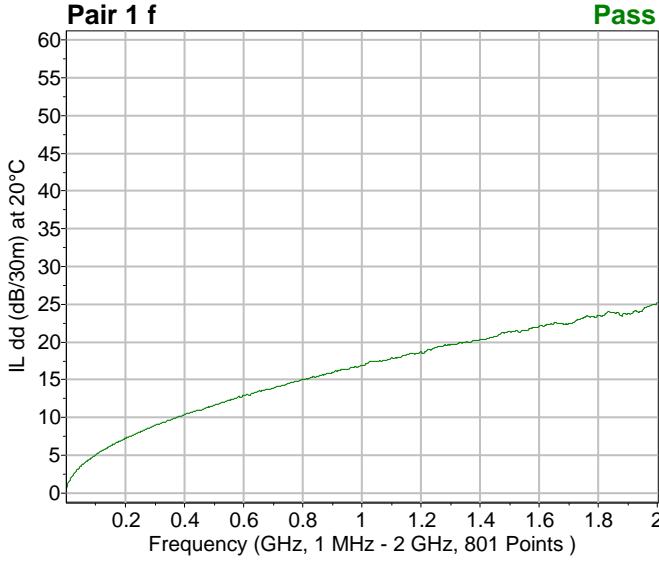
Final control authorized signature:



Summary and Graphic: Insertion loss dd (IL dd)

{ v = Value (/30m) at 20°C l = Limit (/30m) at 20°C m = Margin (/30m) at 20°C f = Frequency (MHz) }
{ Pair: f=forward, r=reverse a=wire a b=wire b }

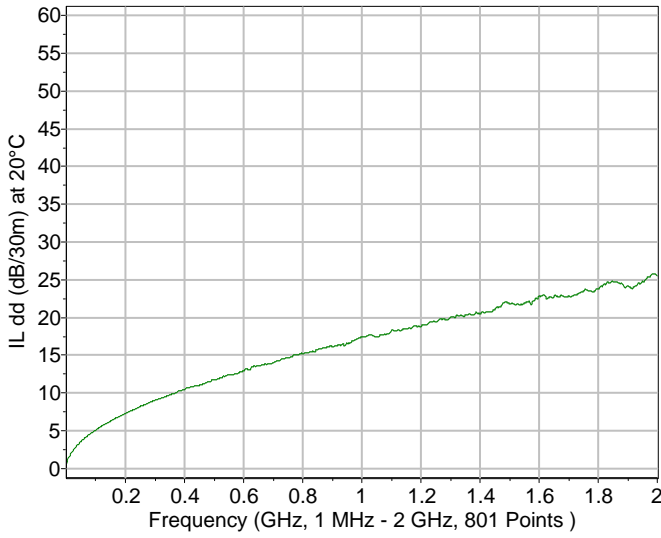
Pair	Start f	Stop f	Points	Minimum { v [f] }	Maximum { v [f] }	Result
1 f	1	2'000	801	0.57 [1]	25.22 [2'000]	ü
1 r	1	2'000	801	0.57 [1]	25.65 [1'990]	ü
2 f	1	2'000	801	0.57 [1]	26.10 [2'000]	ü
2 r	1	2'000	801	0.57 [1]	25.94 [2'000]	ü
3 f	1	2'000	801	0.57 [1]	25.78 [1'990]	ü
3 r	1	2'000	801	0.57 [1]	26.13 [1'995]	ü
4 f	1	2'000	801	0.57 [1]	25.65 [1'998]	ü
4 r	1	2'000	801	0.57 [1]	25.57 [1'998]	ü





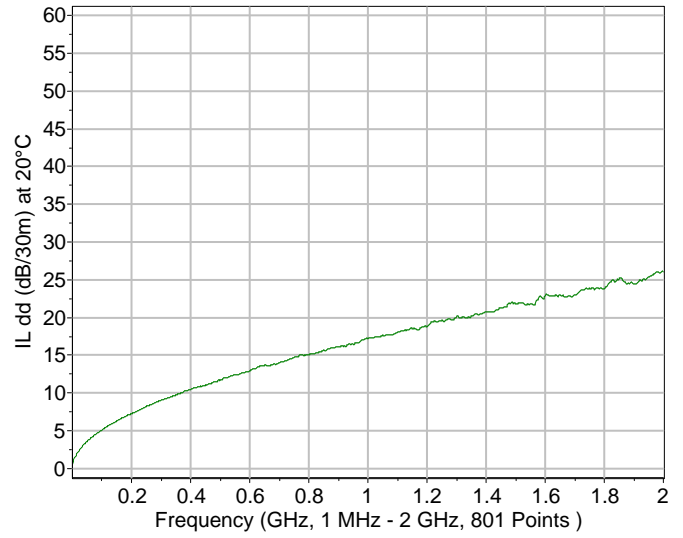
Pair 3 f

Pass



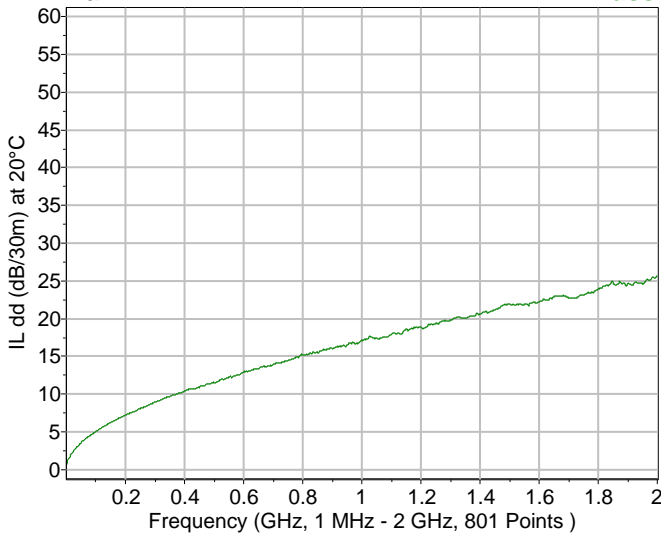
Pair 3 r

Pass



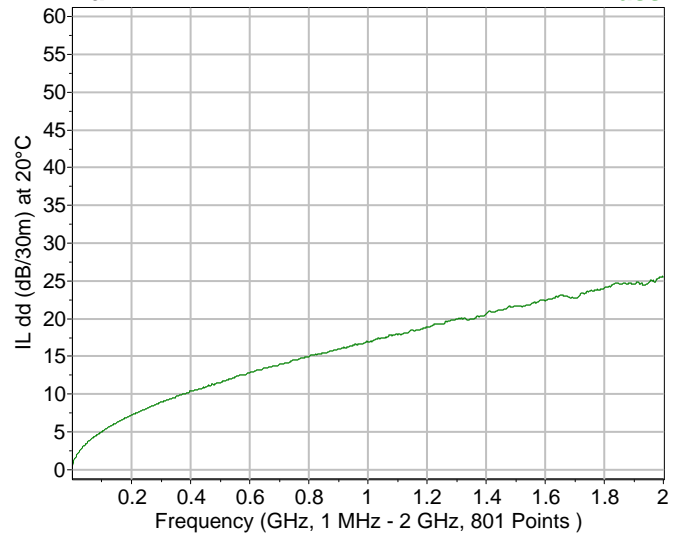
Pair 4 f

Pass



Pair 4 r

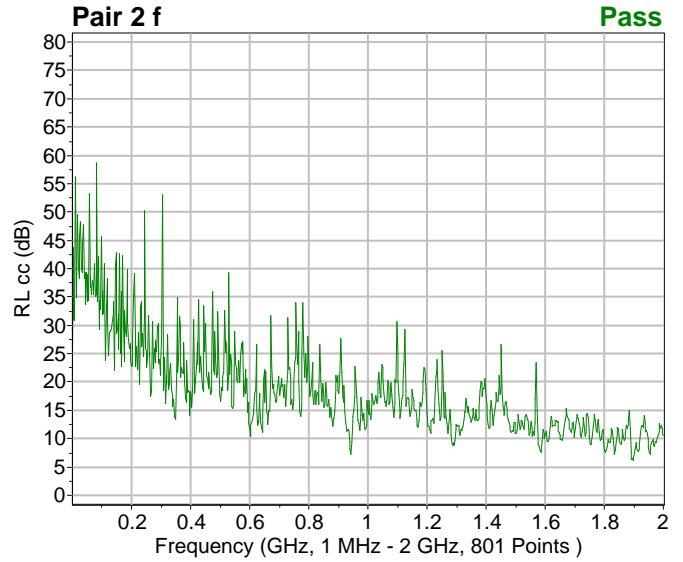
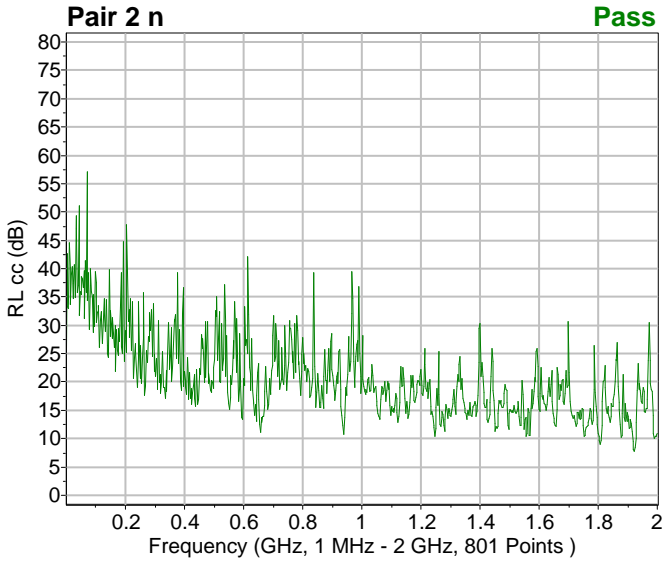
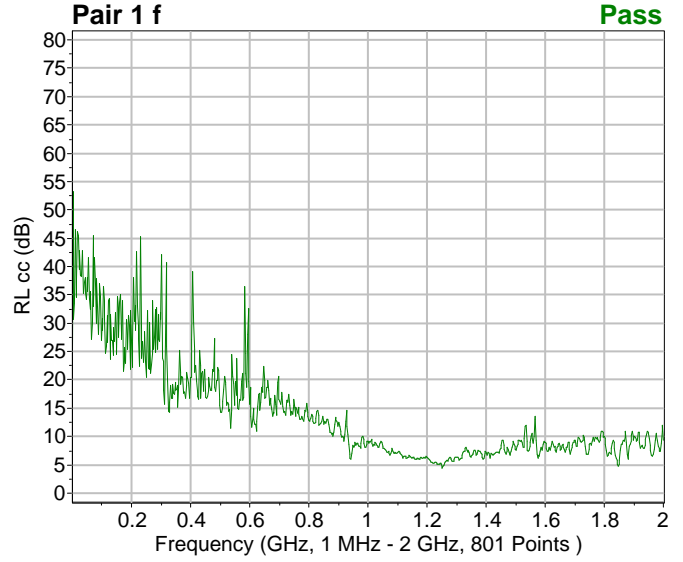
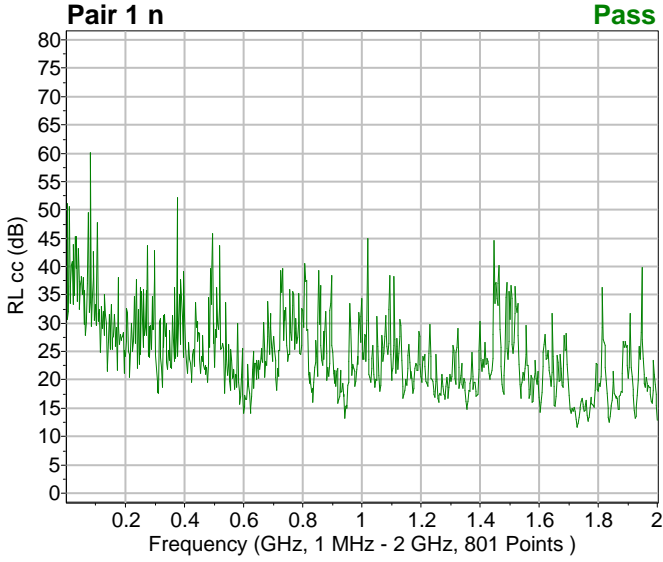
Pass



Summary and Graphic: Return Loss cc (RL cc)

{ v = Value () l = Limit () m = Margin () f = Frequency (MHz) }
 { Pair: n=near f=far a=wire a b=wire b }

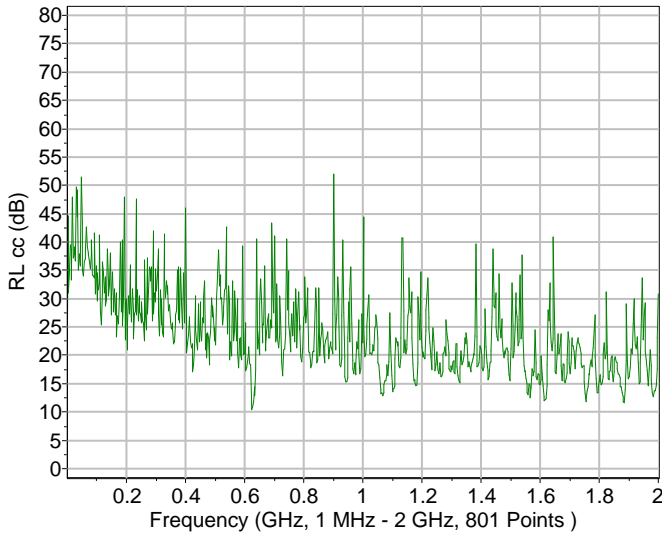
Pair	Start f	Stop f	Points	Minimum { v [f] }	Maximum { v [f] }	Result
1 n	1	2'000	801	11.6 [1'728]	60.1 [83.46]	ü
1 f	1	2'000	801	4.4 [1'253]	53.1 [3.499]	ü
2 n	1	2'000	801	7.8 [1'923]	57.1 [70.96]	ü
2 f	1	2'000	801	6.1 [1'898]	58.6 [83.46]	ü
3 n	1	2'000	801	10.3 [625.7]	52.0 [903]	ü
3 f	1	2'000	801	6.0 [1'853]	55.7 [780.6]	ü
4 n	1	2'000	801	11.3 [1'500]	58.9 [3.499]	ü
4 f	1	2'000	801	7.0 [1'830]	49.9 [3.499]	ü





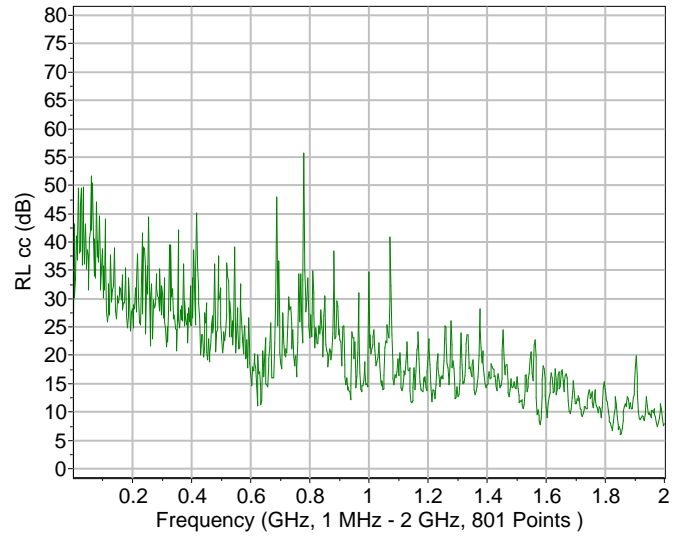
Pair 3 n

Pass



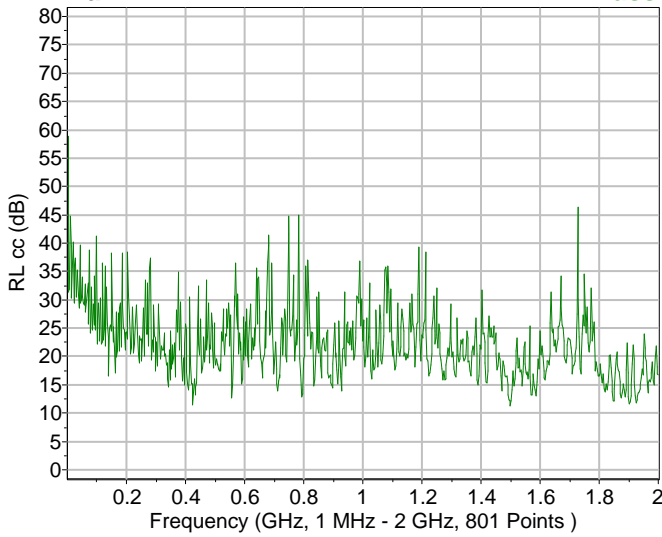
Pair 3 f

Pass



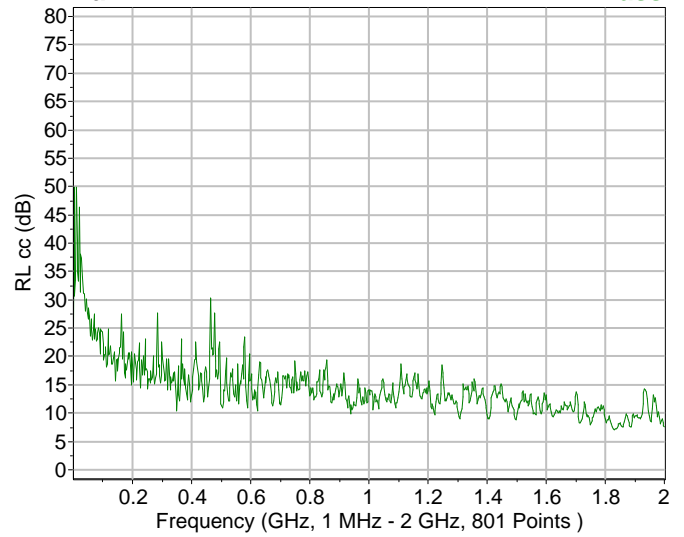
Pair 4 n

Pass



Pair 4 f

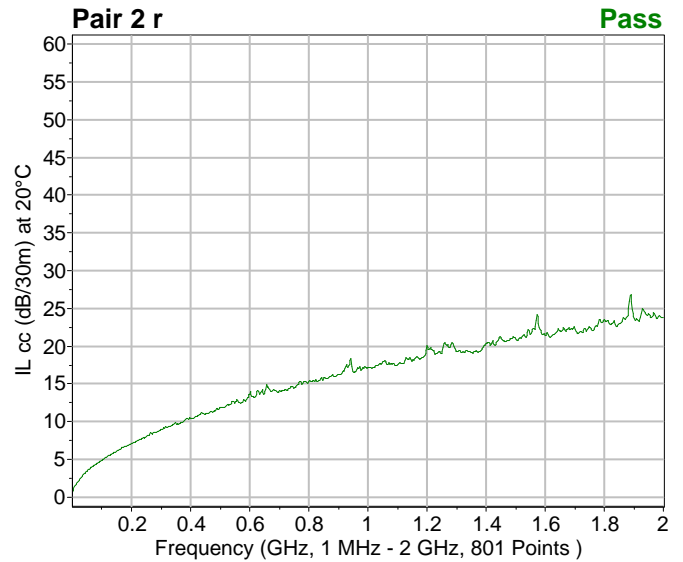
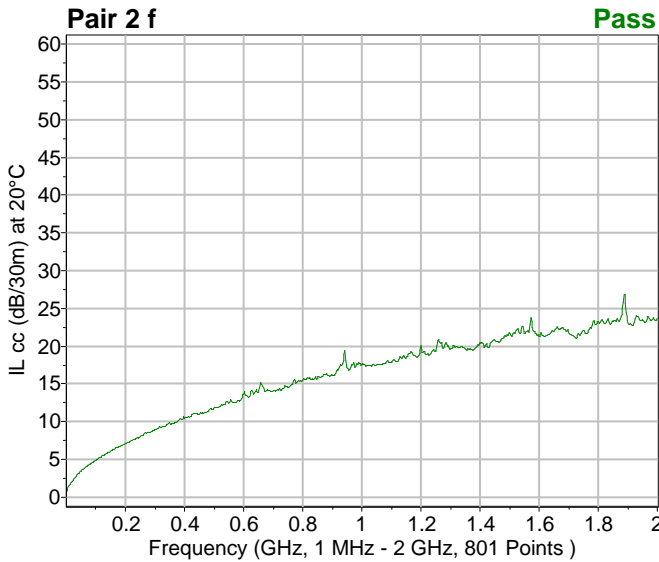
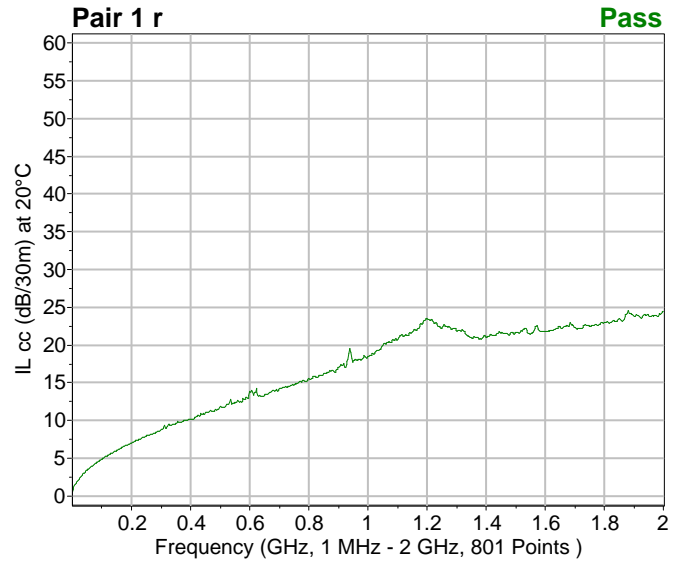
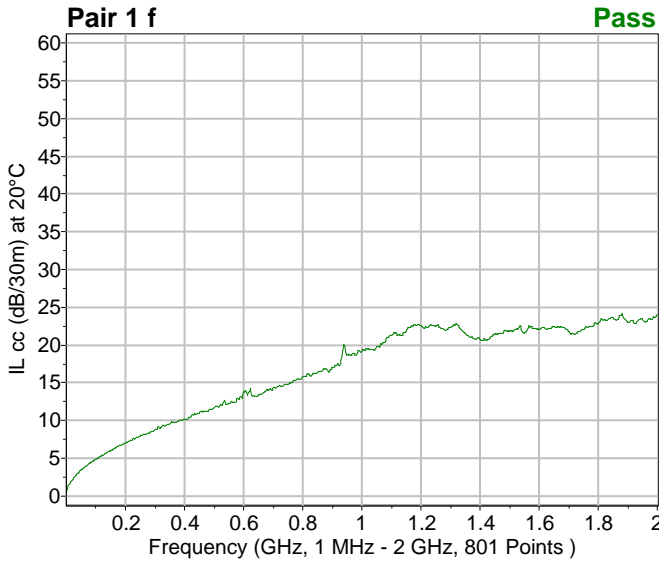
Pass



Summary and Graphic: Insertion loss cc (IL cc)

{ v = Value (/30m) at 20°C l = Limit (/30m) at 20°C m = Margin (/30m) at 20°C f = Frequency (MHz) }
 { Pair: f=forward, r=reverse a=wire a b=wire b }

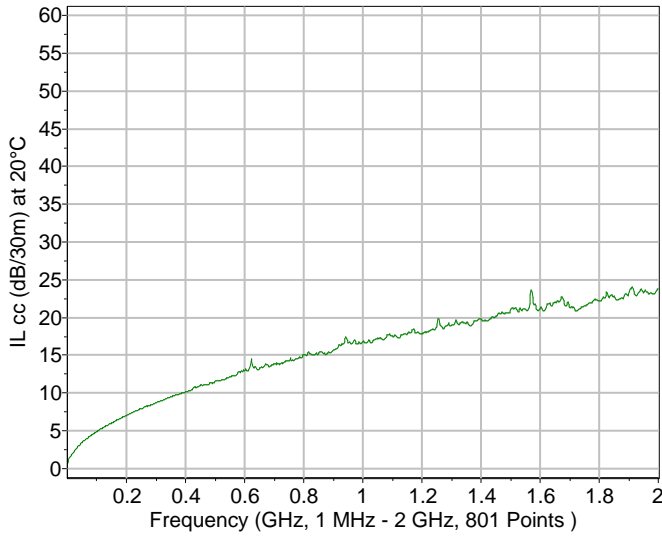
Pair	Start f	Stop f	Points	Minimum { v [f] }	Maximum { v [f] }	Result
1 f	1	2'000	801	0.58 [1]	24.12 [1'880]	ü
1 r	1	2'000	801	0.58 [1]	24.62 [1'883]	ü
2 f	1	2'000	801	0.59 [1]	26.85 [1'890]	ü
2 r	1	2'000	801	0.59 [1]	26.77 [1'890]	ü
3 f	1	2'000	801	0.58 [1]	24.07 [1'913]	ü
3 r	1	2'000	801	0.57 [1]	24.87 [1'913]	ü
4 f	1	2'000	801	0.58 [1]	24.89 [1'980]	ü
4 r	1	2'000	801	0.59 [1]	24.60 [1'990]	ü





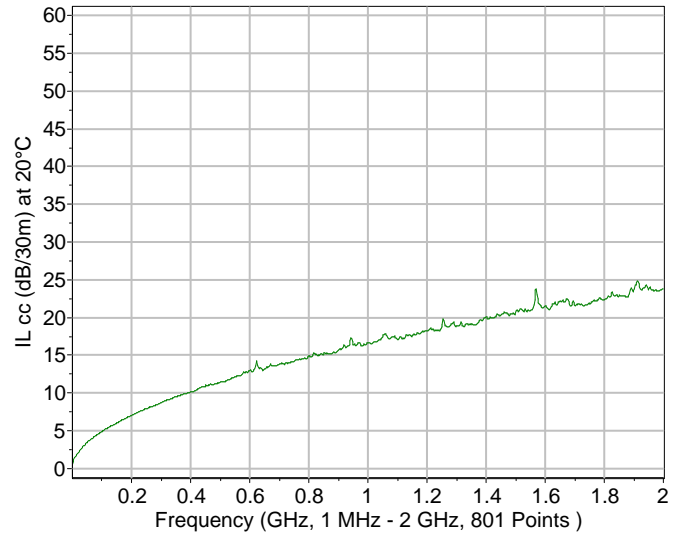
Pair 3 f

Pass



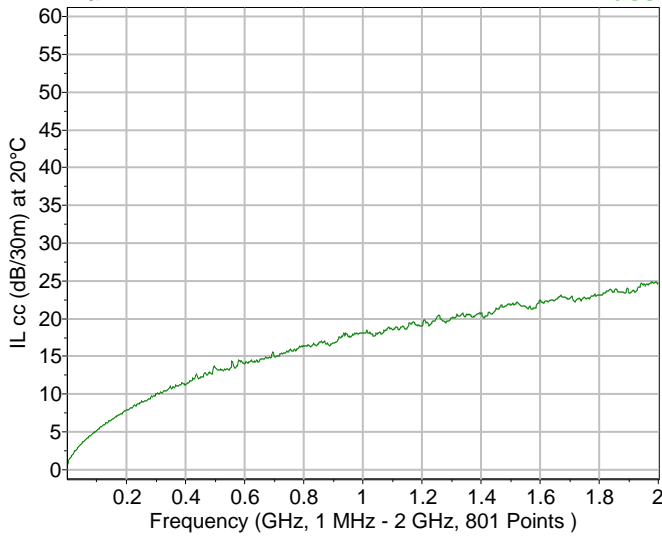
Pair 3 r

Pass



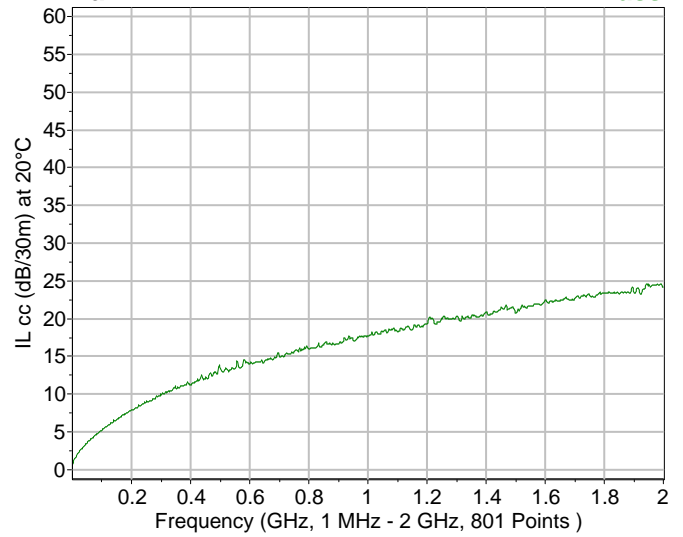
Pair 4 f

Pass



Pair 4 r

Pass

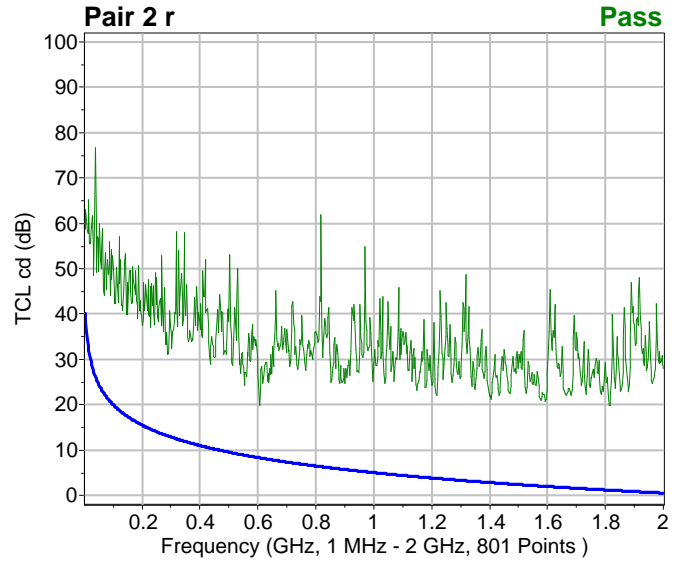
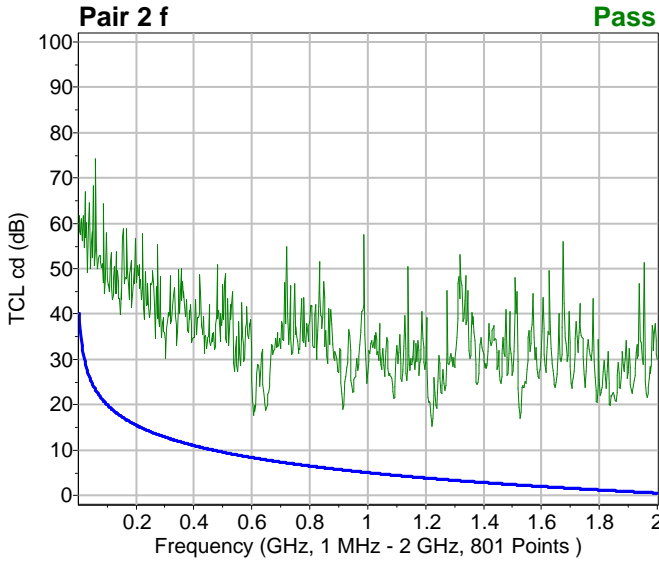
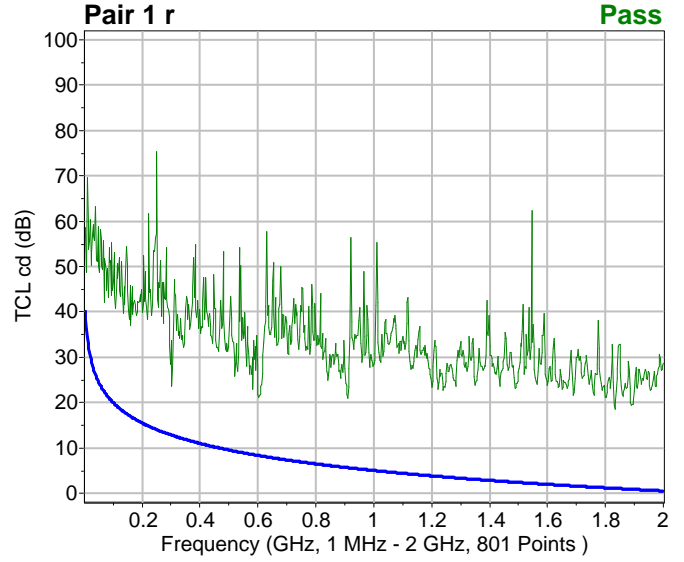
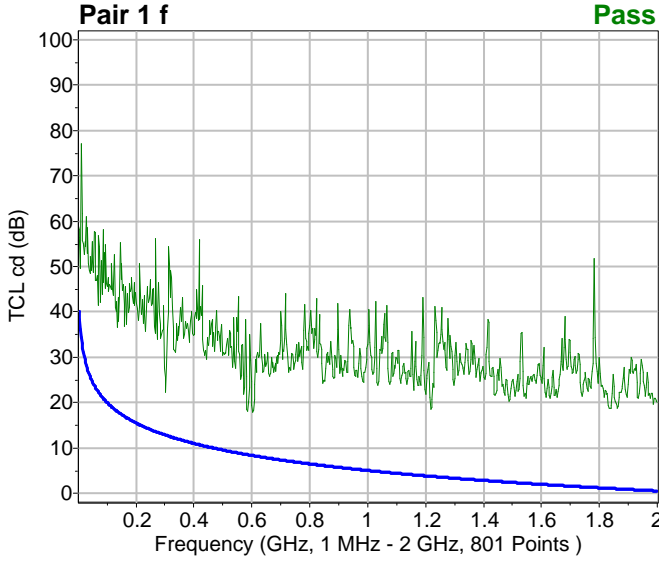


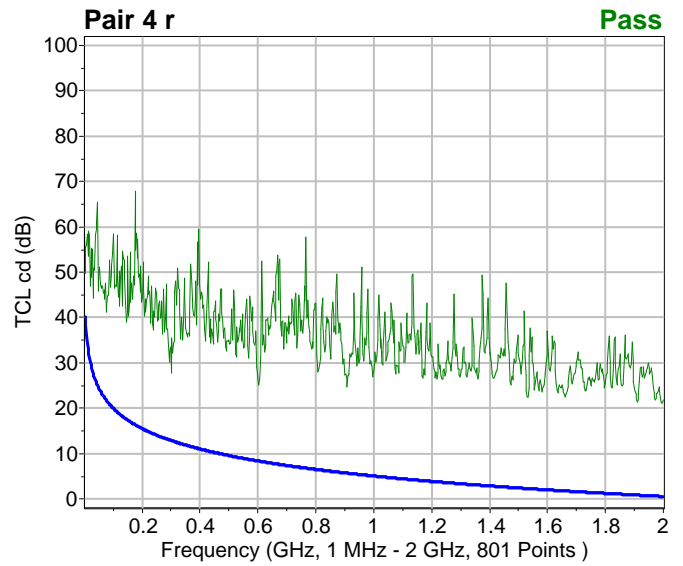
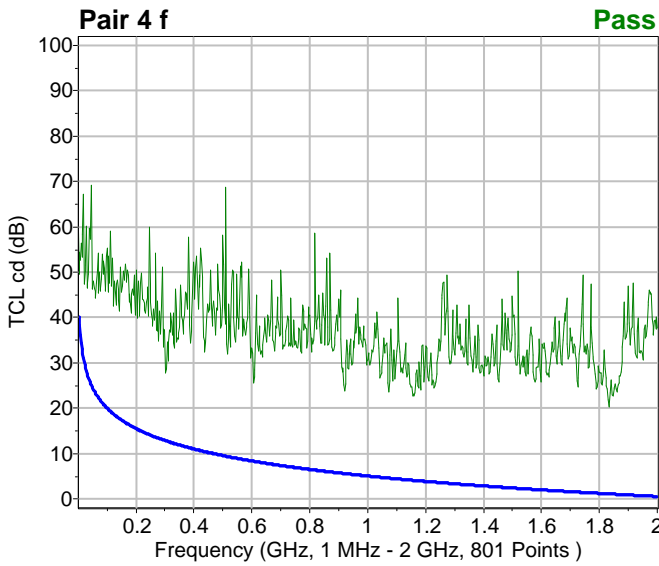
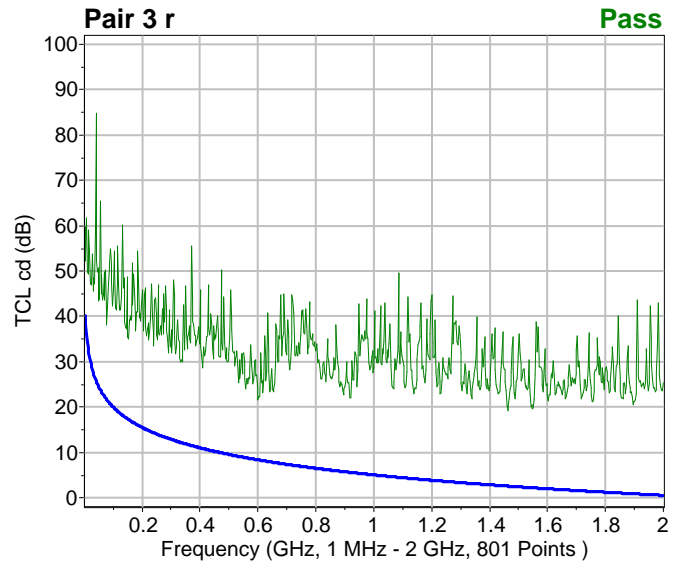
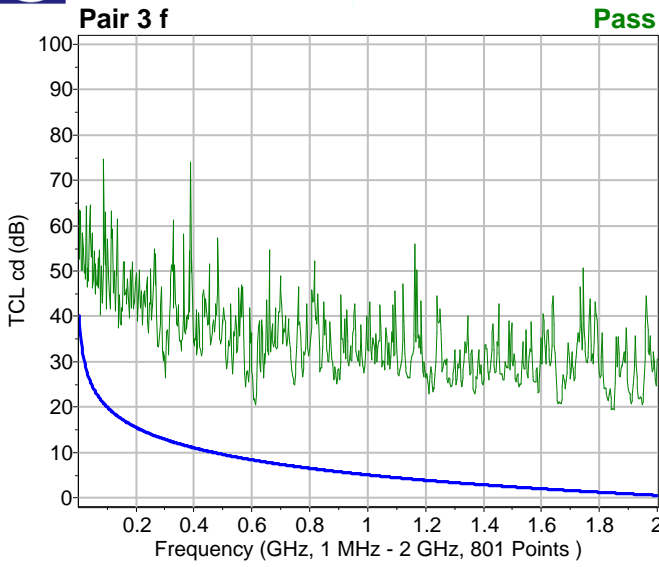


Summary and Graphic: transverse conv. loss cd (TCL cd)

{ v = Value () l = Limit () m = Margin () f = Frequency (MHz) }
{ Pair: f=forward, r=reverse a=wire a b=wire b }

Pair	Start f	Stop f	Points	Minimum { v [ff] }	Maximum { v [ff] }	Min. Margin { m (v l) [ff] }	Result
1 f	1	2'000	801	17.8 [603.2]	77.0 [10.99]		ù
1 r	1	2'000	801	18.5 [1'833]	75.4 [250.9]		ù
2 f	1	2'000	801	15.2 [1'223]	74.2 [60.97]		ù
2 r	1	2'000	801	19.7 [605.7]	76.6 [38.48]		ù
3 f	1	2'000	801	19.3 [1'850]	74.7 [88.46]		ù
3 r	1	2'000	801	19.2 [1'463]	84.7 [40.98]		ù
4 f	1	2'000	801	20.2 [1'833]	69.2 [45.98]		ù
4 r	1	2'000	801	21.2 [1'998]	67.8 [175.9]		ù

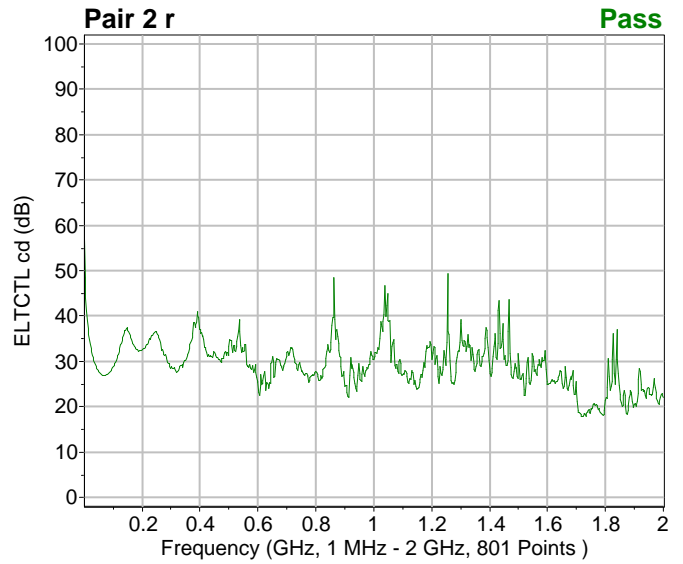
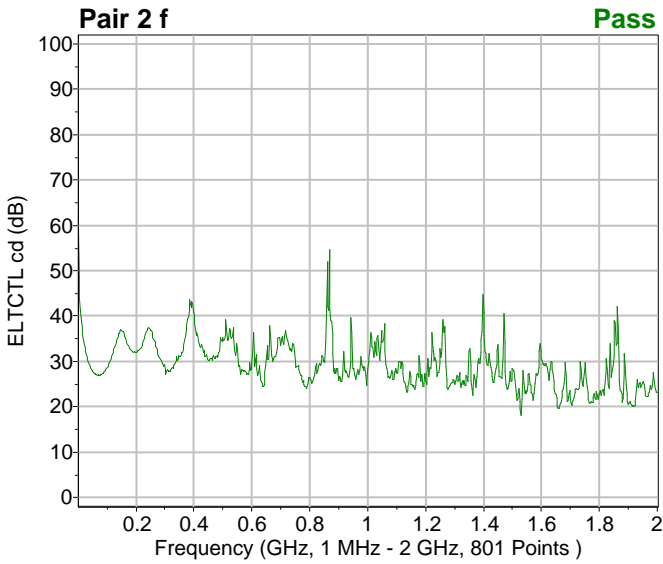
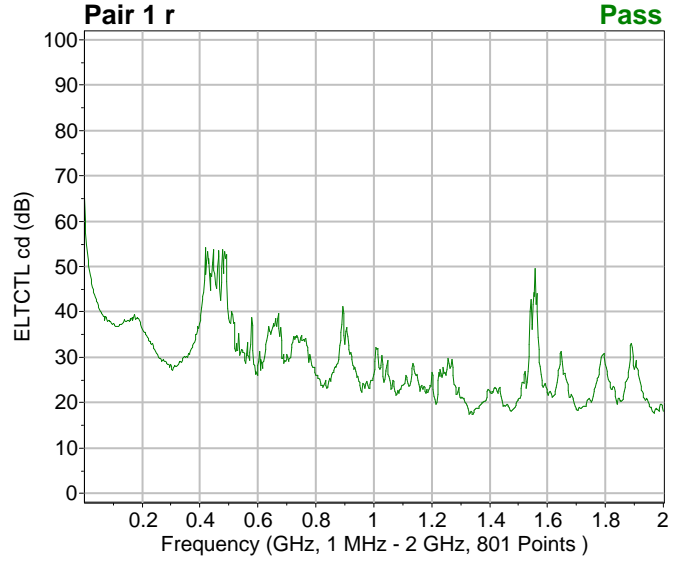
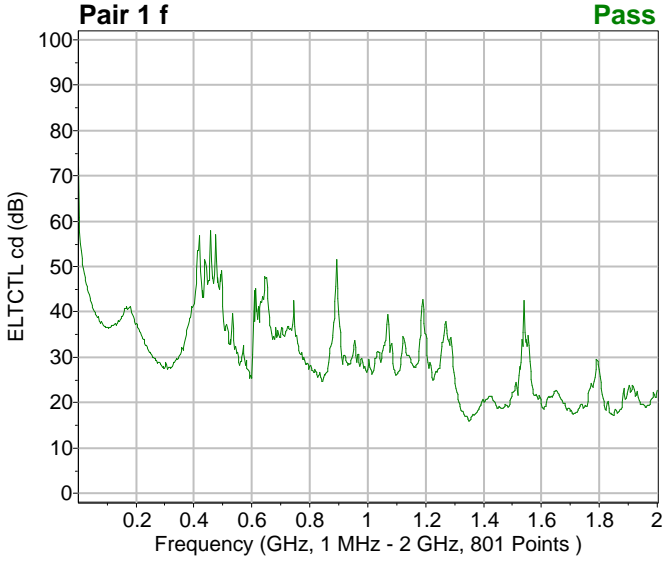




Summary and Graphic: Equal Level TCTL cd (ELTCTL cd)

{ v = Value () l = Limit () m = Margin () f = Frequency (MHz) }
 { Pair: f=forward, r=reverse a=wire a b=wire b }

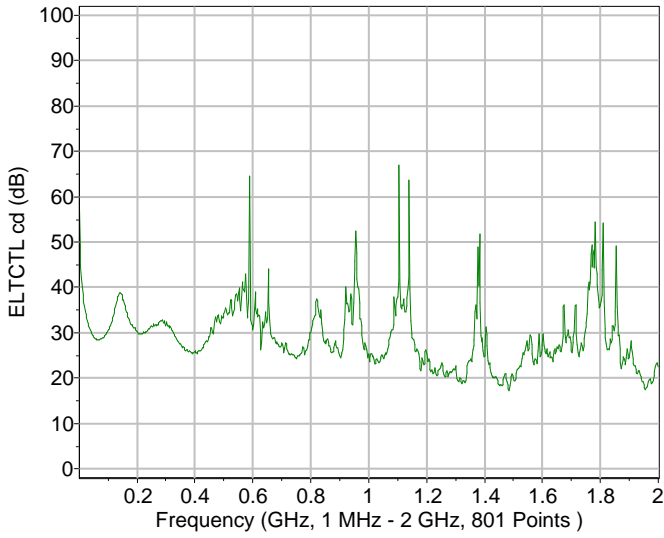
Pair	Start f	Stop f	Points	Minimum { v [f] }	Maximum { v [f] }	Result
1 f	1	2'000	801	15.9 [1'350]	74.3 [1]	ü
1 r	1	2'000	801	17.4 [1'340]	65.6 [1]	ü
2 f	1	2'000	801	18.1 [1'530]	60.9 [1]	ü
2 r	1	2'000	801	17.8 [1'720]	57.5 [1]	ü
3 f	1	2'000	801	17.3 [1'485]	67.0 [1'105]	ü
3 r	1	2'000	801	16.5 [1'460]	57.3 [1]	ü
4 f	1	2'000	801	16.1 [1'898]	69.3 [1]	ü
4 r	1	2'000	801	15.2 [1'290]	68.7 [1]	ü





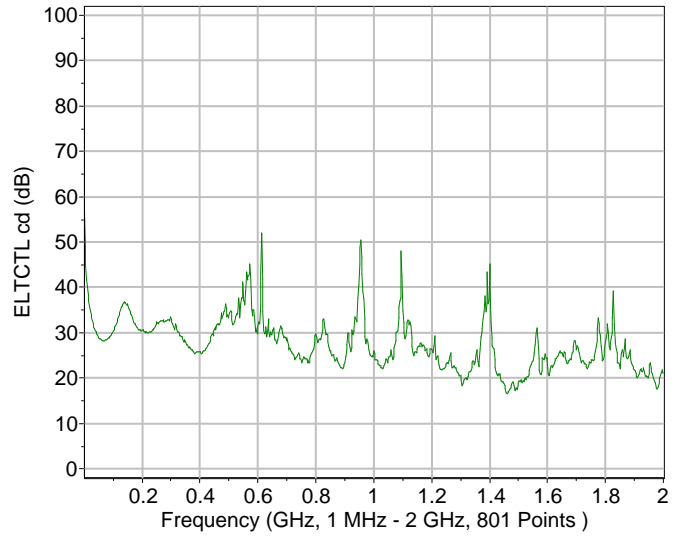
Pair 3 f

Pass



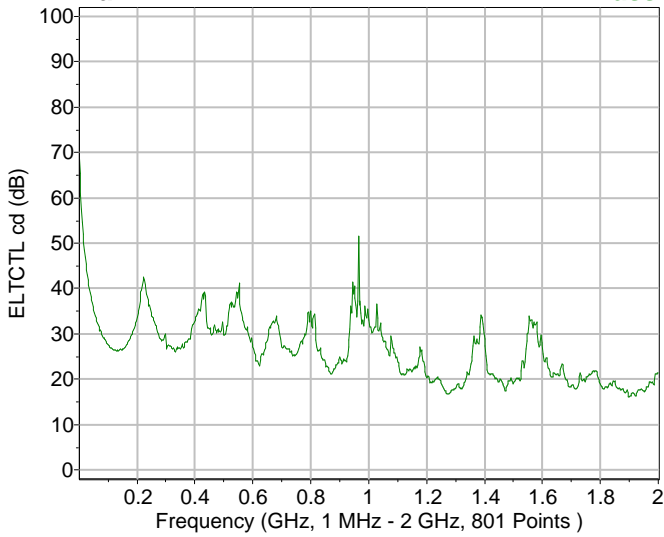
Pair 3 r

Pass



Pair 4 f

Pass



Pair 4 r

Pass

