

CAT7

Test Report

Test Date:

2026/06/17 16:37

Test equipment:E5071C
Measure Date: 2026/06/17 16:37

Measure Pair: 4
DUT length: 73.5 M
Temperature: 25 °C
Humidity: 50 %

Cable type: CAT7
Lot NO.2
Box /Bundle NO.
Spec. name: ISO 11801 CLASS F-0617.sp2

Test Equipment List :

Equip.	P/N (s/n)	Description
NA	E5071C (MY46528926)	Freq(1-600)/ Pts(801)/ IF(300 Hz)/ Power(10 dBm)/ Smooth(0)/ Z(100)/ Mode(4 Port)

Device Under Test (DUT) & Test Environment Information :

P/N:	CAT7	Specifications:	ISO 11801 CLASS F-0617
DUT Lot:	2	DUT Bundle:	
DUT Length(M):	73.5	Test Pair:	4 Pairs
Temperature(°C):	25	Humidity(%):	50
Note:	蓝橙绿棕		

Test Result Summary:

1	Input Impedance (Load)	Pass
2	Return Loss	Pass
3	Insertion Loss@20°C	Pass
4	Delay	Pass
5	Near End Crosstalk(NEXT)	Pass
6	Power Sum NEXT	Pass
7	ACRF	Pass
8	PowerSum ACRF	Pass
9	ACR	Pass
10	Power Sum ACR	Pass

Status: Pass

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Parameter:		Input Impedance (Load)								Unit:	Ohm	Status:	Pass
Start	1												Pair
Stop	600												Status:
High Limit	115												--
Pair 1	110.62												Pass
Pair 2	109.59												Pass
Pair 3	110.46												Pass
Pair 4	109.69												Pass
Low Limit	85												
Worst Pair	Pair 1												
Worst Freq	1.81												
Margin	4.38												

Parameter:		Return Loss								Unit:	dB	Status:	Pass
Start	1	16	100	250	500	600	1						Pair
Stop	1	16	100	250	500	600	600						Status:
High Limit	-19	-18	-12	-8	-8	-8	Func.						--
Pair 1	-20.88	-40.75	-37.57	-34.47	-34.16	-31.91	-20.88						Pass
Pair 2	-21.46	-41.75	-45.52	-38.2	-28.13	-47.25	-21.46						Pass
Pair 3	-21.07	-41.77	-37.73	-35.02	-30.11	-34.31	-21.07						Pass
Pair 4	-21.39	-44.71	-33.6	-36.41	-29.43	-23.52	-21.39						Pass
Low Limit	--	--	--	--	--	--	--						
Worst Pair	Pair 1	Pair 1	Pair 4	Pair 1	Pair 2	Pair 4	Pair 1						
Worst Freq	1.0	16.0	100.0	250.0	500.0	600.0	1.0						
Margin	1.88	22.75	21.6	26.47	20.13	15.52	1.88						

Parameter:		Insertion Loss@20°C								Unit:	dB/100M	Status:	Pass
Start	1	16	100	250	500	600	1						Pair
Stop	1	16	100	250	500	600	600						Status:
High Limit	--	--	--	--	--	--	--						--
Pair 1	-2.4	-7.48	-18.89	-30.67	-44.71	-49.67	-7.49						Pass
Pair 2	-2.44	-7.77	-19.78	-32.07	-46.84	-52.07	-7.78						Pass
Pair 3	-2.4	-7.55	-19.33	-31.3	-45.77	-50.92	-7.56						Pass
Pair 4	-2.38	-7.59	-19.1	-30.9	-45.06	-50.02	-7.6						Pass
Low Limit	-4	-8.1	-20.8	-33.8	-49.3	-54.6	Func.						
Worst Pair	Pair 2	Pair 2	Pair 2	Pair 2	Pair 2	Pair 2	Pair 2						
Worst Freq	1.0	16.0	100.0	250.0	500.0	600.0	16.03						
Margin	1.56	0.33	1.02	1.73	2.46	2.53	0.32						

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Parameter:								Delay								Unit:	ns/100M		Status:	Pass
Start	1	16	100	250	500	600	1										Pair			
Stop	1	16	100	250	500	600	600										Status:			
High Limit	580	553	548	546	546	545	Func.										--			
Pair 1	350.38	339.09	336.34	335.69	335.5	335.5	335.5										Pass			
Pair 2	353.0	340.96	338.07	337.34	337.16	337.16	337.16										Pass			
Pair 3	349.6	338.02	335.17	334.46	334.31	334.31	334.31										Pass			
Pair 4	351.02	339.0	336.3	335.59	335.43	335.43	335.43										Pass			
Low Limit	--	--	--	--	--	--	--													
Worst Pair	Pair 2	Pair 2	Pair 2	Pair 2	Pair 2	Pair 2	Pair 2													
Worst Freq	1.0	16.0	100.0	250.0	500.0	600.0	600.0													
Margin	227.0	212.04	209.93	208.66	208.84	207.84	207.84													

Parameter:								Near End Crosstalk(NEXT)								Unit:	dB		Status:	Pass
Start	1	16	100	250	500	600	1										Pair			
Stop	1	16	100	250	500	600	600										Status:			
High Limit	-65	-65	-62.9	-56.9	-52.4	-51.2	Func.										--			
P 1-2	-78.35	-97.56	-93.35	-84.6	-89.91	-85.57	-77.26										Pass			
P 1-3	-90.17	-95.33	-100.44	-88.88	-81.91	-72.2	-80.55										Pass			
P 1-4	-81.42	-93.69	-93.21	-94.6	-95.54	-105.42	-79.13										Pass			
P 2-3	-80.33	-91.6	-95.66	-86.71	-77.2	-92.13	-64.73										Pass			
P 2-4	-74.3	-97.33	-96.43	-98.57	-96.93	-98.01	-73.1										Pass			
P 3-4	-89.14	-88.33	-89.73	-81.15	-88.58	-92.17	-68.63										Pass			
Low Limit	--	--	--	--	--	--	--													
Worst Pair	P 2-4	P 3-4	P 3-4	P 3-4	P 2-3	P 1-3	P 2-4													
Worst Freq	1.0	16.0	100.0	250.0	500.0	600.0	3.96													
Margin	9.3	23.33	26.83	24.25	24.8	21.0	8.1													

Parameter:								Power Sum NEXT								Unit:	dB		Status:	Pass
Start	1	16	100	250	500	600	1										Pair			
Stop	1	16	100	250	500	600	600										Status:			
High Limit	-62	-62	-59.9	-53.9	-49.4	-48.2	Func.										--			
Pair 1	-76.42	-90.47	-89.81	-82.89	-81.02	-72.0	-75.67										Pass			
Pair 2	-72.14	-89.75	-90.09	-81.48	-76.91	-84.5	-71.89										Pass			
Pair 3	-79.41	-86.09	-88.39	-79.07	-75.7	-72.11	-64.59										Pass			
Pair 4	-73.41	-86.78	-87.48	-80.86	-87.17	-91.0	-72.51										Pass			
Low Limit	--	--	--	--	--	--	--													
Worst Pair	Pair 2	Pair 3	Pair 4	Pair 3	Pair 3	Pair 1	Pair 2													
Worst Freq	1.0	16.0	100.0	250.0	500.0	600.0	1.03													
Margin	10.14	24.09	27.58	25.17	26.3	23.8	9.89													

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Parameter:								ACRF								Unit: dB		Status:	Pass
Start	1	16	100	250	500	600	1										Pair		
Stop	1	16	100	250	500	600	600										Status:		
High Limit	-65	-57.5	-44.4	-37.8	-32.6	-31.3	Func.										--		
P 1-2	-81.22	-94.86	-79.03	-75.14	-69.77	-61.91	-78.71										Pass		
P 1-3	-81.68	-93.98	-69.21	-65.75	-70.08	-74.84	-78.52										Pass		
P 1-4	-85.83	-71.09	-58.69	-58.15	-60.63	-64.35	-70.44										Pass		
P 2-3	-77.28	-99.61	-80.03	-77.55	-73.85	-62.82	-76.43										Pass		
P 2-4	-80.77	-88.09	-87.44	-87.73	-75.79	-67.45	-69.69										Pass		
P 3-4	-84.51	-84.29	-80.28	-76.91	-69.58	-70.63	-77.98										Pass		
Low Limit	--	--	--	--	--	--	--												
Worst Pair	P 2-3	P 1-4	P 1-4	P 1-4	P 1-4	P 1-2	P 2-4												
Worst Freq	1.0	16.0	100.0	250.0	500.0	600.0	3.74												
Margin	12.28	13.59	14.29	20.35	28.03	30.61	8.26												

Parameter:								PowerSum ACRF								Unit: dB		Status:	Pass
Start	1	16	100	250	500	600	1										Pair		
Stop	1	16	100	250	500	600	600										Status:		
High Limit	-62	-54.5	-41.4	-34.8	-29.6	-28.3	Func.										--		
Pair 1	-77.72	-71.16	-58.51	-57.68	-60.21	-61.34	-73.98										Pass		
Pair 2	-74.57	-86.85	-75.74	-72.69	-66.54	-57.92	-69.49										Pass		
Pair 3	-75.37	-83.76	-68.52	-65.12	-65.29	-61.79	-73.84										Pass		
Pair 4	-78.38	-70.8	-58.65	-58.08	-59.92	-61.98	-69.08										Pass		
Low Limit	--	--	--	--	--	--	--												
Worst Pair	Pair 2	Pair 4	Pair 1	Pair 1	Pair 4	Pair 2	Pair 4												
Worst Freq	1.0	16.0	100.0	250.0	500.0	600.0	3.77												
Margin	12.57	16.3	17.11	22.88	30.32	29.62	10.67												

Parameter:								ACR								Unit: dB		Status:	Pass
Start	1	16	100	250	500	600	1										Pair		
Stop	1	16	100	250	500	600	600										Status:		
High Limit	-61	-56.9	-42.1	-23.1	-3.1	3.4	Func.										--		
P 1-2	-75.91	-89.79	-73.57	-52.53	-43.07	-33.5	-74.77										Pass		
P 1-3	-87.77	-87.78	-81.1	-57.59	-36.13	-21.28	-77.68										Pass		
P 1-4	-79.04	-86.1	-74.11	-63.7	-50.48	-55.4	-76.38										Pass		
P 2-3	-77.93	-84.04	-76.33	-55.41	-31.43	-41.21	-75.67										Pass		
P 2-4	-71.92	-89.74	-77.33	-67.66	-51.87	-47.99	-68.85										Pass		
P 3-4	-86.76	-80.74	-70.63	-50.25	-43.52	-42.15	-34.23										Pass		
Low Limit	--	--	--	--	--	--	--												
Worst Pair	P 2-4	P 3-4	P 3-4	P 3-4	P 2-3	P 1-3	P 2-4												
Worst Freq	1.0	16.0	100.0	250.0	500.0	600.0	3.96												
Margin	10.92	23.84	28.53	27.15	28.33	24.68	9.88												

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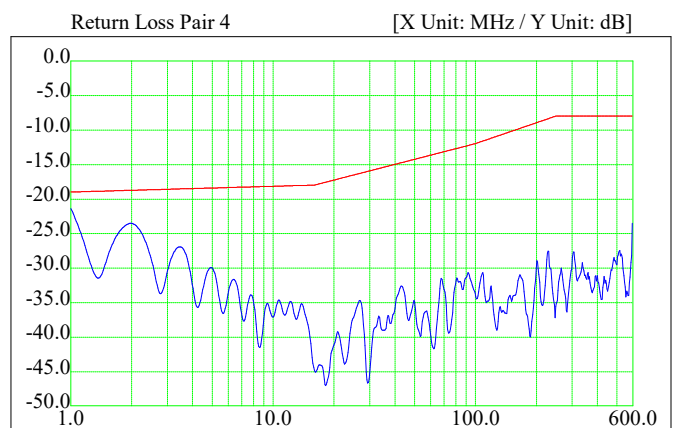
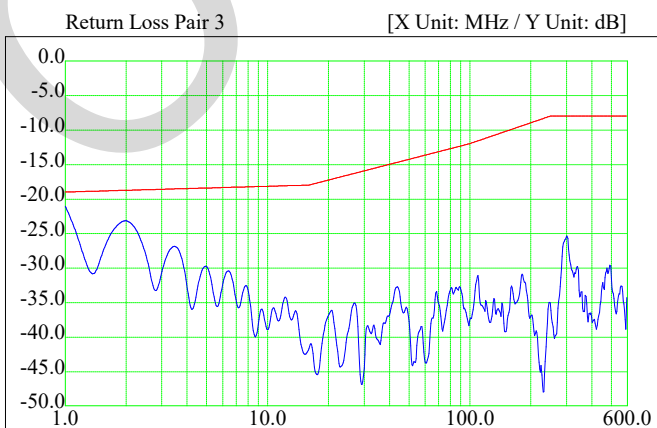
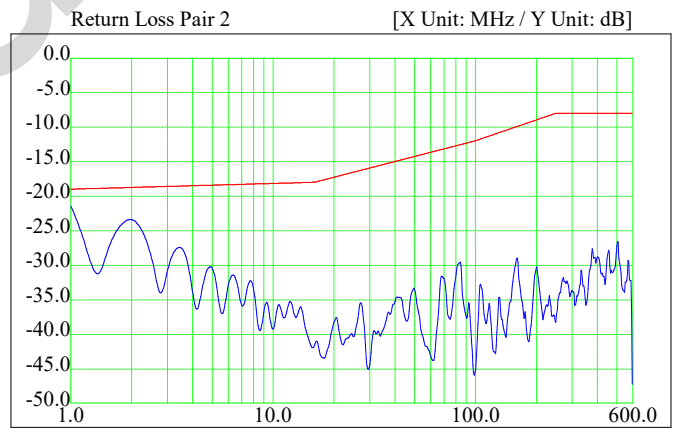
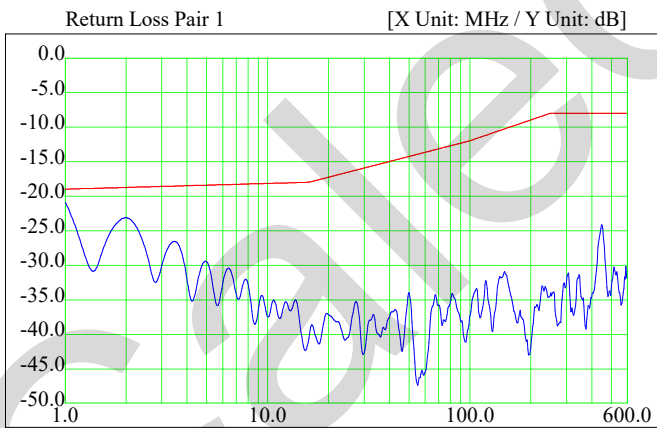
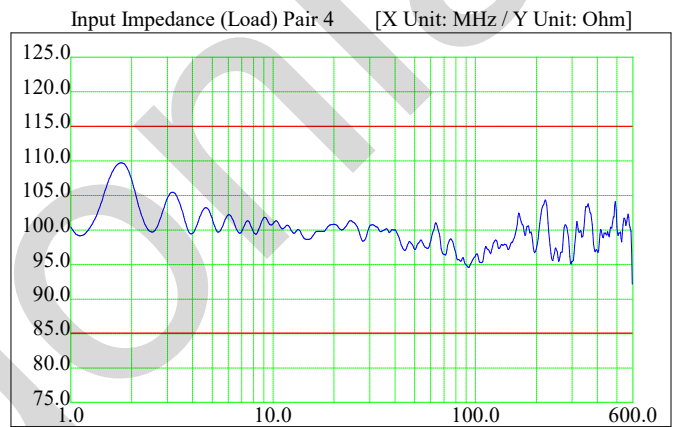
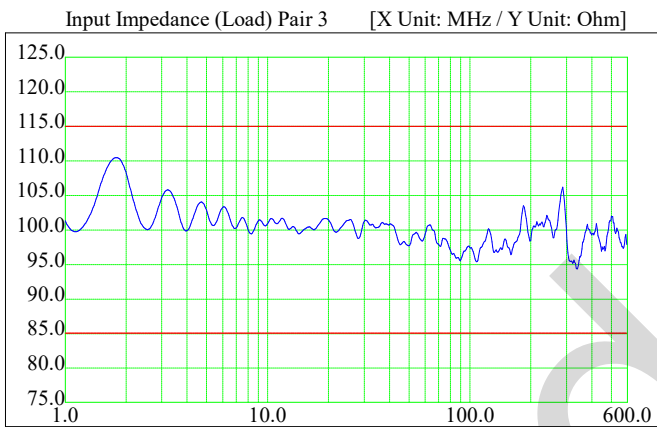
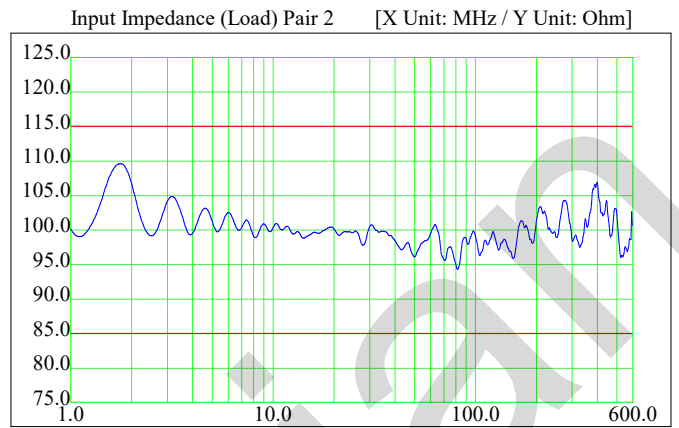
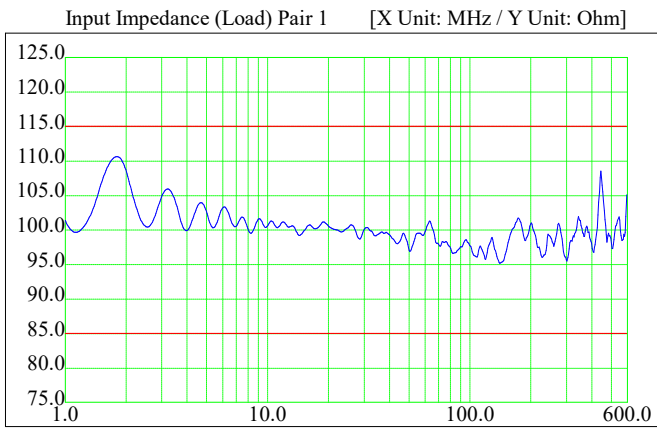
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Parameter:	Power Sum ACR							Unit:	dB							Status:	Pass
Start	1	16	100	250	500	600	1										Pair
Stop	1	16	100	250	500	600	600										Status:
High Limit	-58	-53.9	-39.1	-20.1	-0.1	6.4	Func.										--
Pair 1	-74.02	-82.98	-70.91	-52.22	-36.31	-22.33	-73.14										Pass
Pair 2	-69.7	-81.98	-70.31	-49.41	-30.06	-32.43	-69.4										Pass
Pair 3	-77.01	-78.54	-69.06	-47.78	-29.93	-21.19	-73.5										Pass
Pair 4	-71.03	-79.19	-68.38	-49.96	-42.11	-40.98	-68.26										Pass
Low Limit	--	--	--	--	--	--	--										
Worst Pair	Pair 2	Pair 3	Pair 4	Pair 3	Pair 3	Pair 3	Pair 2										
Worst Freq	1.0	16.0	100.0	250.0	500.0	600.0	1.03										
Margin	11.7	24.64	29.28	27.68	29.83	27.59	11.45										

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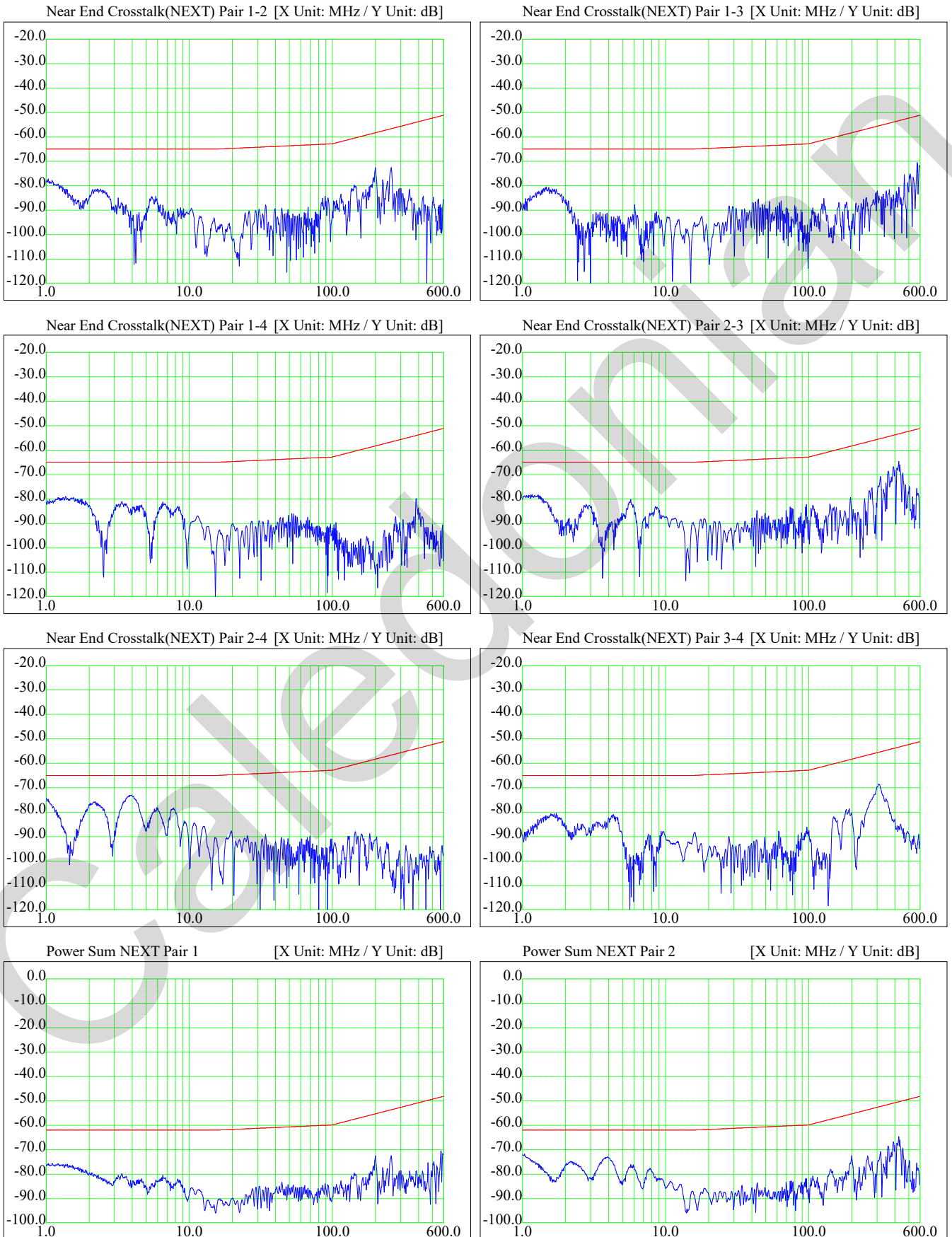
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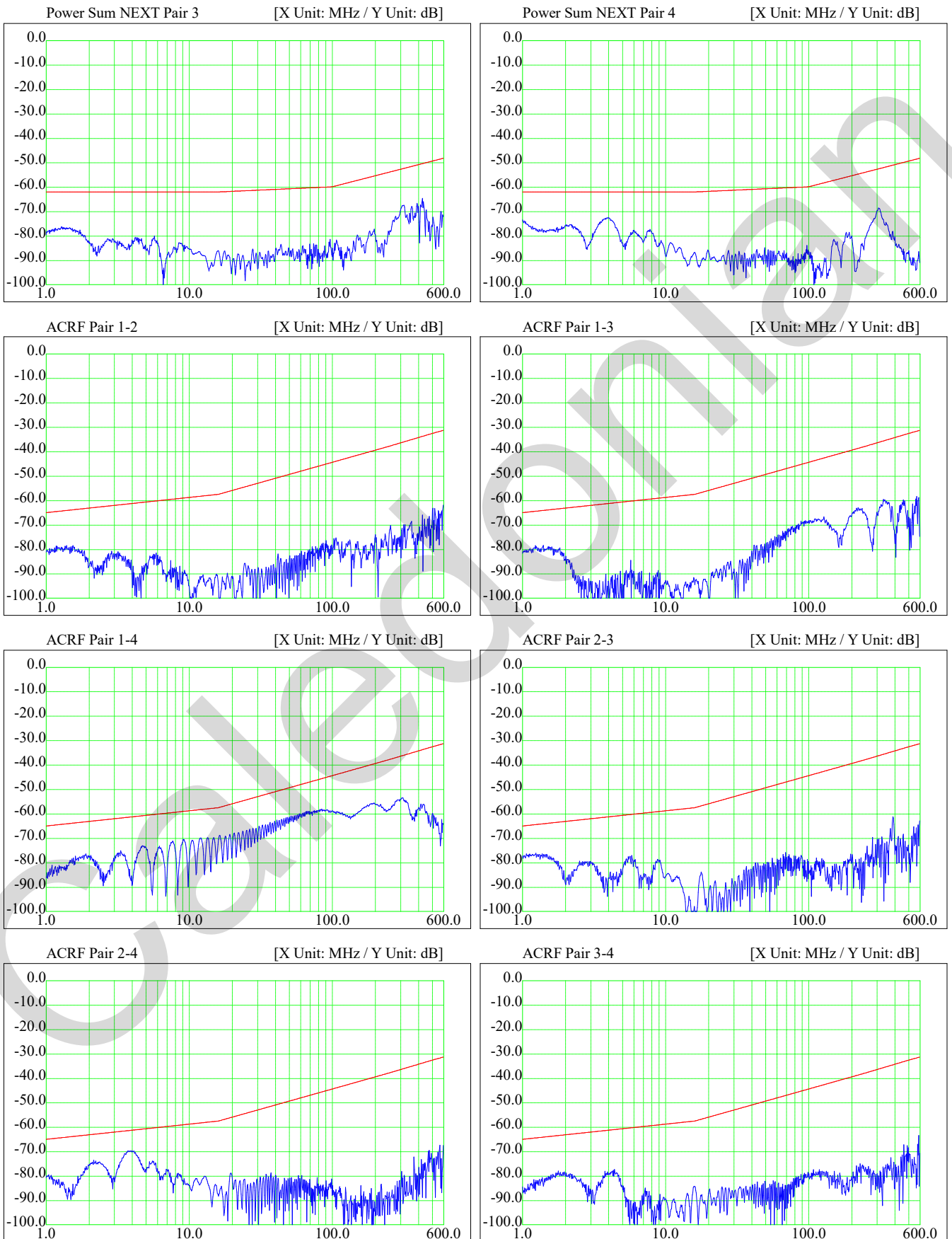
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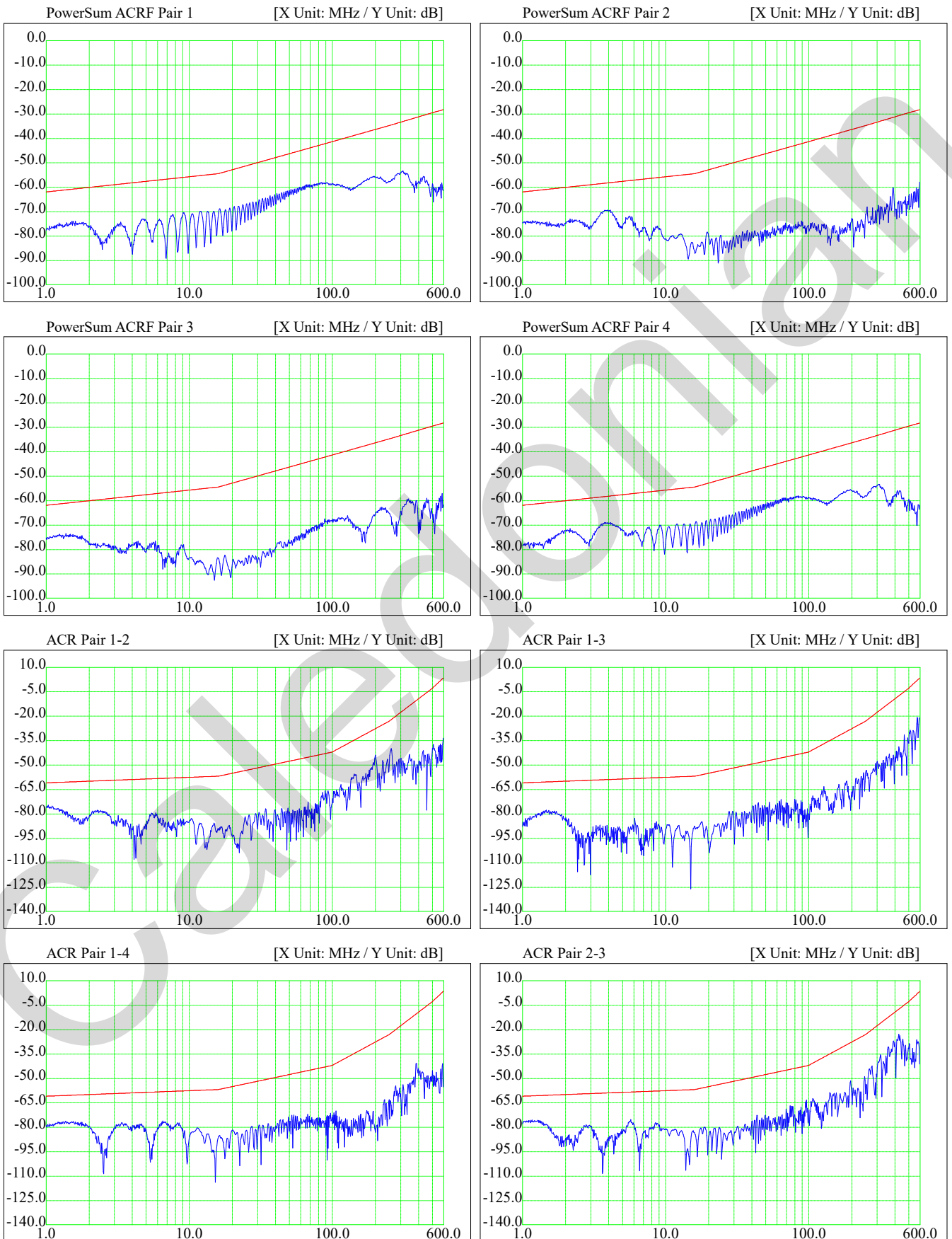
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