

DCM Test Report

Cable Type : 4x2x23 x ALL	Factory Number : 2021022302	Data File Name : DA111946.D3S
Cable I.D. : CAT6 F/UTP CABLE	Order Number : J07210316B004	Specification File : SK-4FCT6-078.S3S
Temperature : 23.00 癈	Relative Humidity : 50 %	Test Date/Time : 03/17/2021 11:59:09 AM
Length : 100.00 m	Number of Pairs to Test : 4	Operator : ZFB
Starting Position : 13		Analyzer Type : ENA

Pass - Fail Test Certificate - 4 Pairs

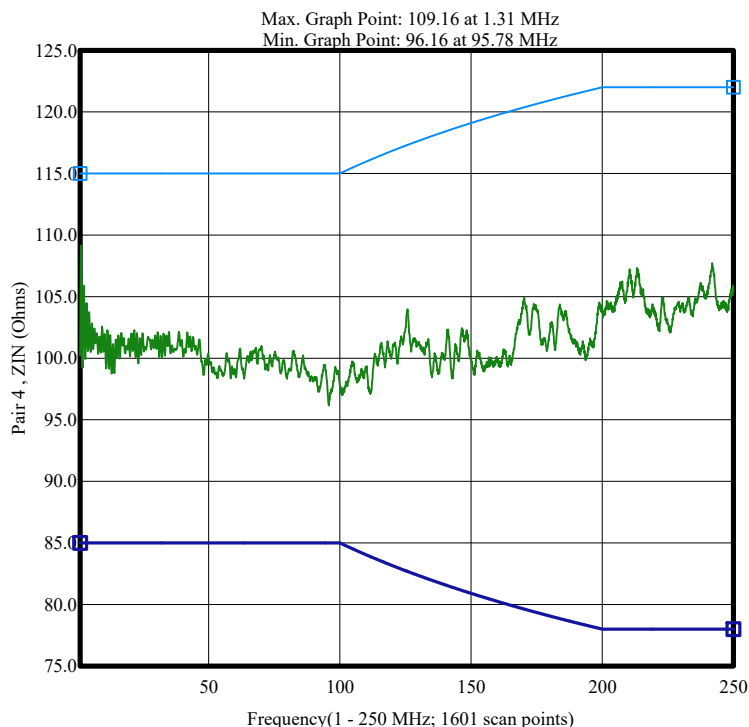
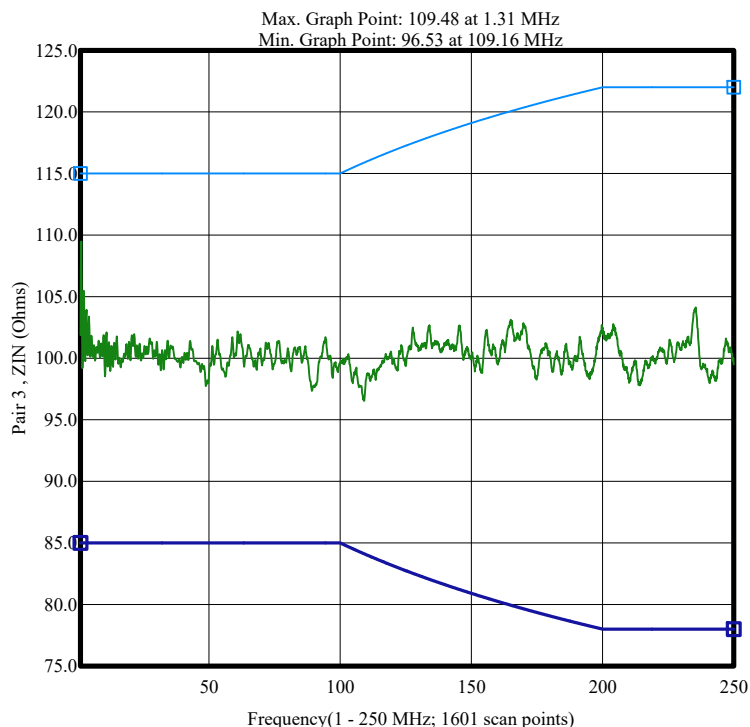
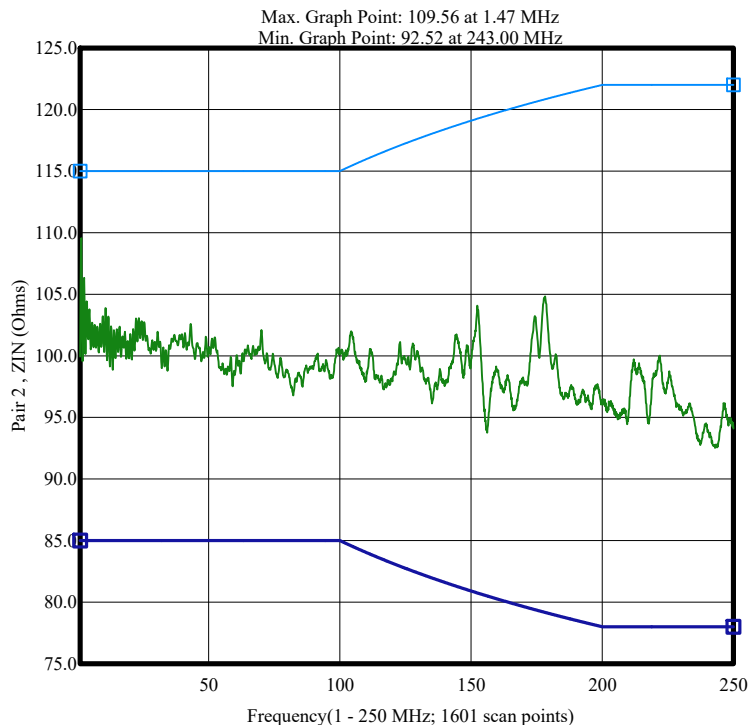
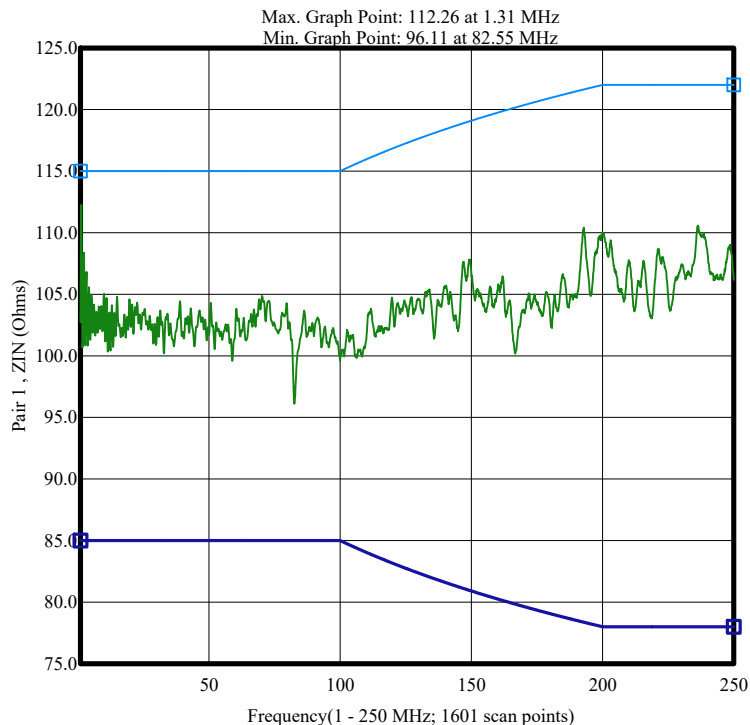
High Frequency

Test Type	Test Result
Input Impedance (Zin)(Ohms)(Terminated)	OK
Return Loss (RL)(dB)	OK
Insertion Loss (IL)(Curve Fit)(dB/100.0 m)@20C	OK
Near End Crosstalk Loss (NEXT)(dB)	OK
ACR to FEXT Ratio (ACRF)(dB)	OK
Power Sum NEXT(PSNEXT)(dB)	OK
Power Sum ACRF (PSACRF)(dB)	OK
Propagation Delay (DELAY)(ns/100m)	OK
Propagation Delay Skew (SKEW)(ns/100m)	OK

Signature:	Approved:	Date:
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Summary and Graphic: Input Impedance (Zin)(Terminated)

Pair	Specification		Measured(Ohms)		Margin (Ohms)		@ Frequency (MHz)		Test Result
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	
Pair 1 [13]	85.00	115.00	96.11	112.26	11.11	2.74	82.55	1.31	Passed
Pair 2 [14]	85.00	115.00	96.79	109.56	11.79	5.44	82.24	1.47	Passed
Pair 3 [15]	85.00	115.00	97.34	109.48	12.34	5.52	89.24	1.31	Passed
Pair 4 [16]	85.00	115.00	96.16	109.16	11.16	5.84	95.78	1.31	Passed



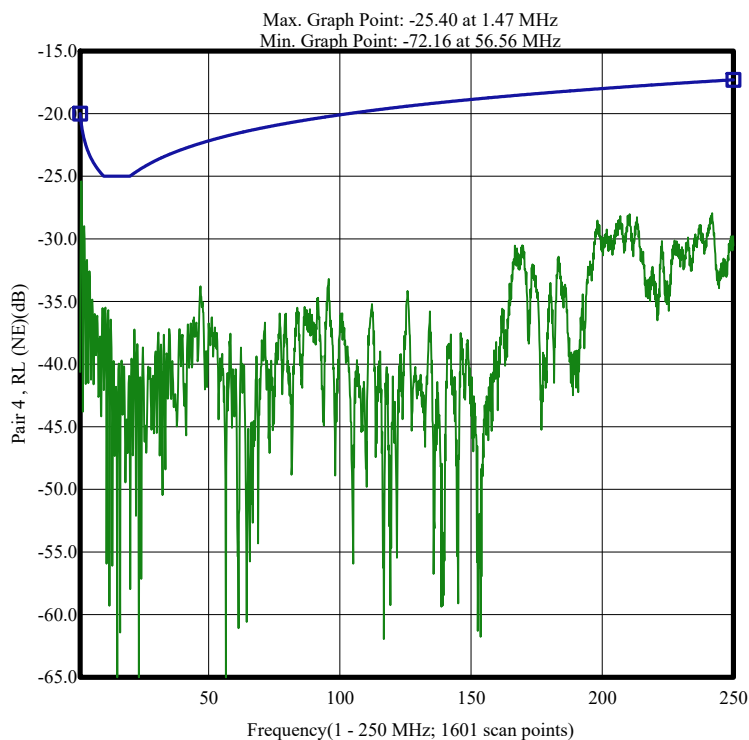
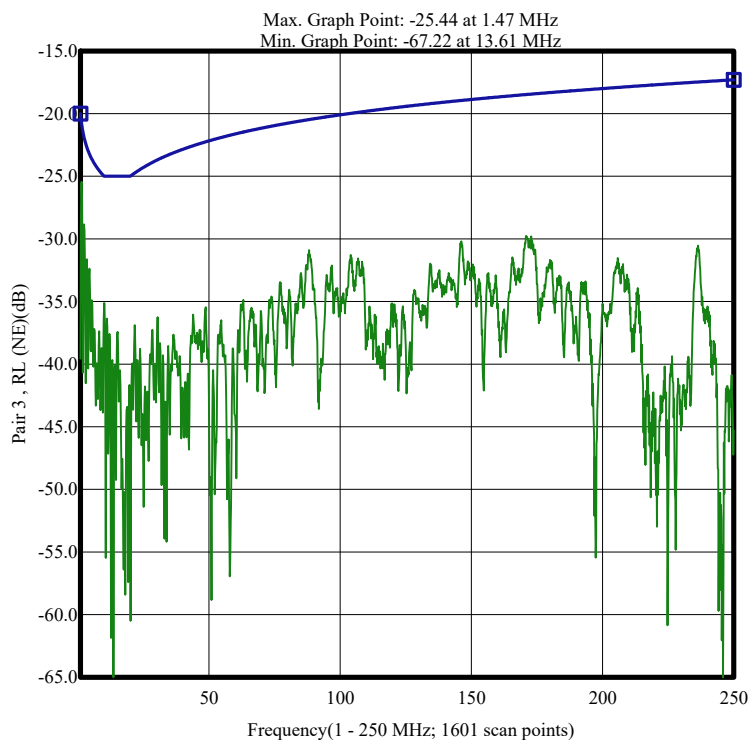
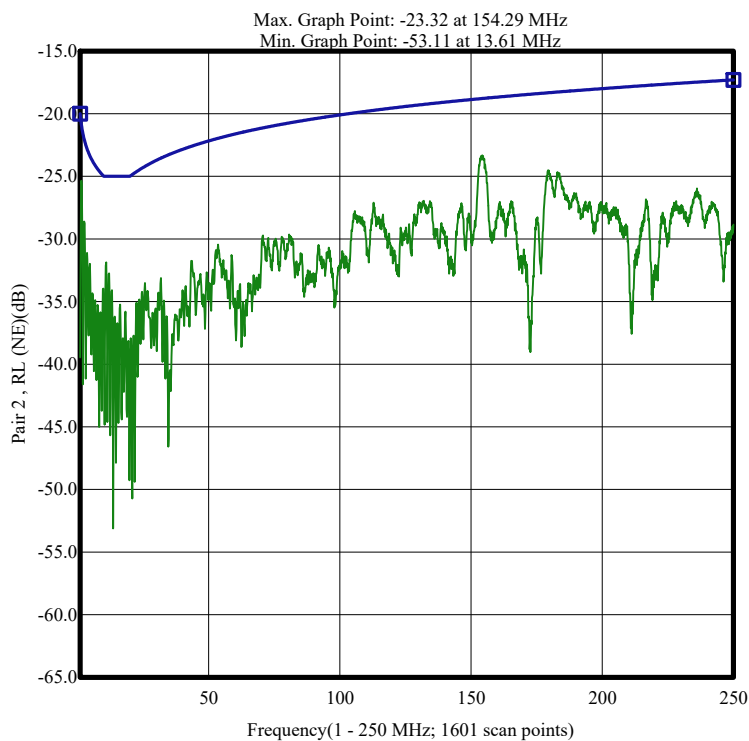
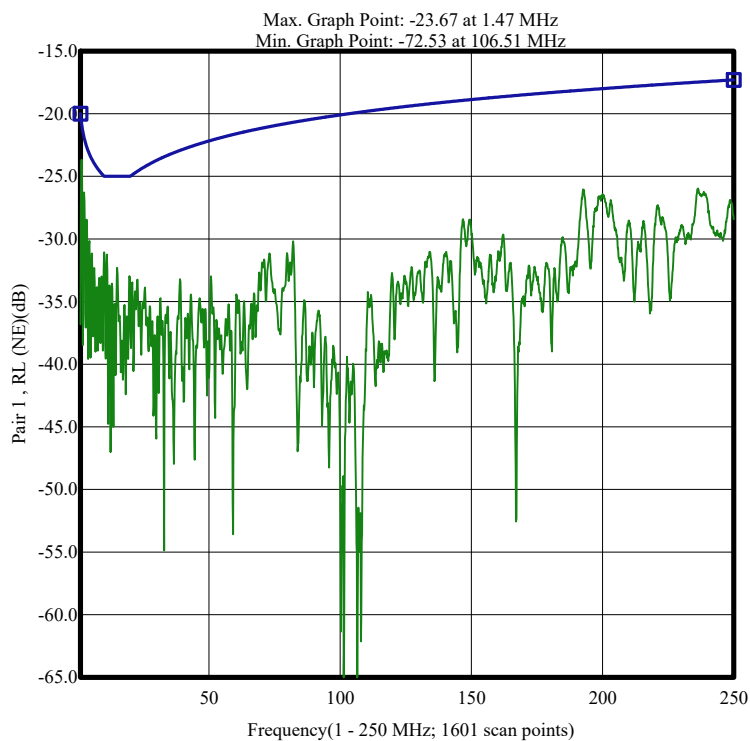
N/A = Not Applicable.
--- = Disable/Bypassed Pair.

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Summary and Graphic: Return Loss (RL)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 [13]	20.83	23.67	2.84	1.47	Passed
Pair 2 [14]	18.79	23.32	4.53	154.29	Passed
Pair 3 [15]	20.83	25.44	4.61	1.47	Passed
Pair 4 [16]	20.83	25.40	4.57	1.47	Passed



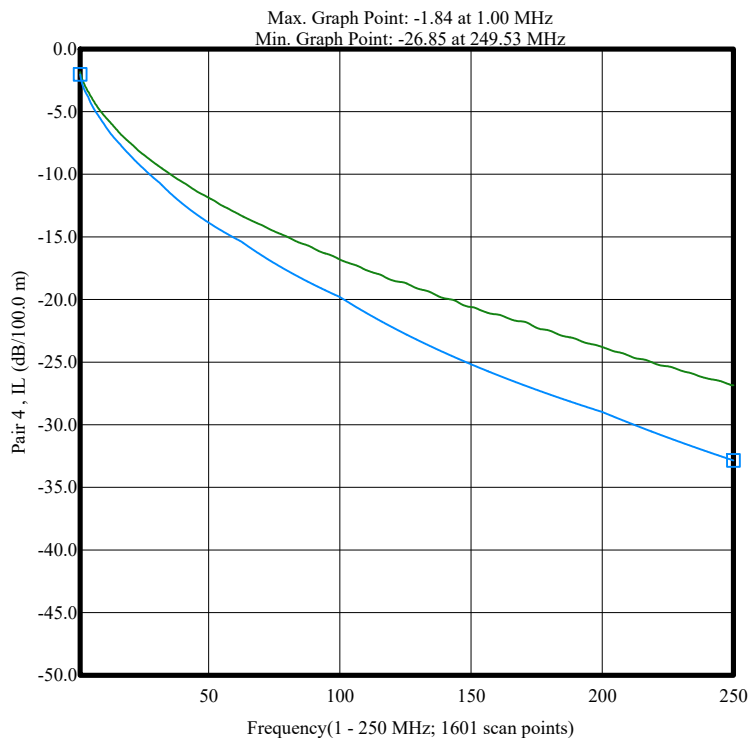
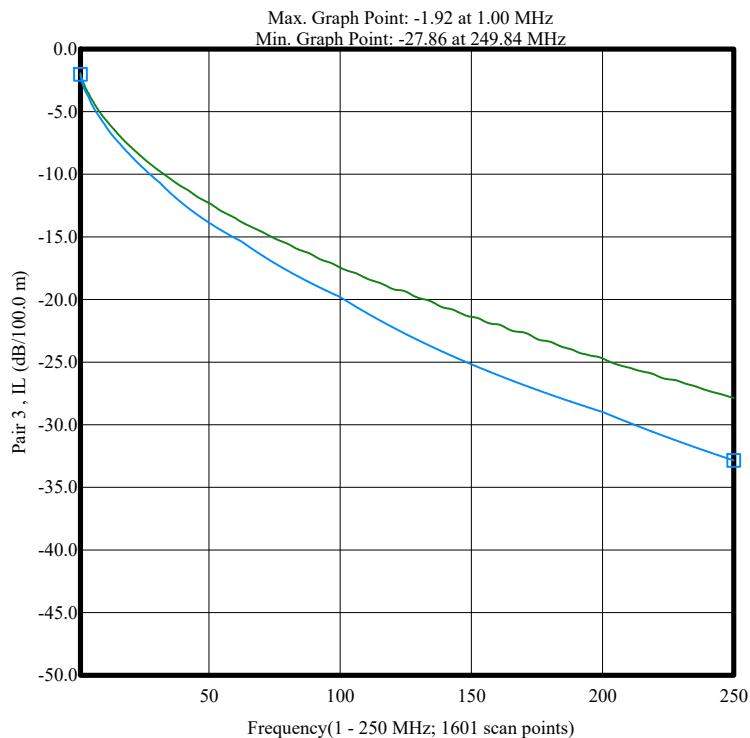
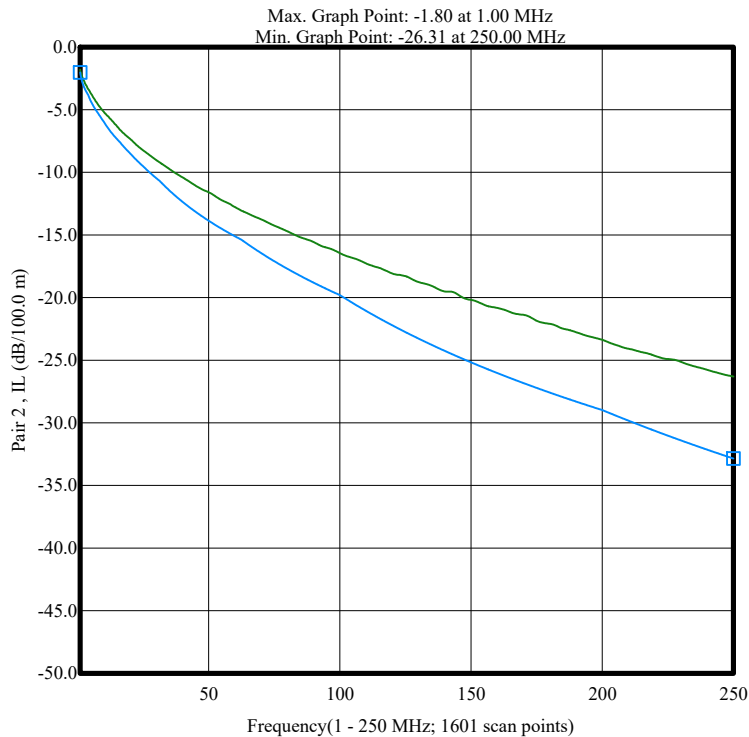
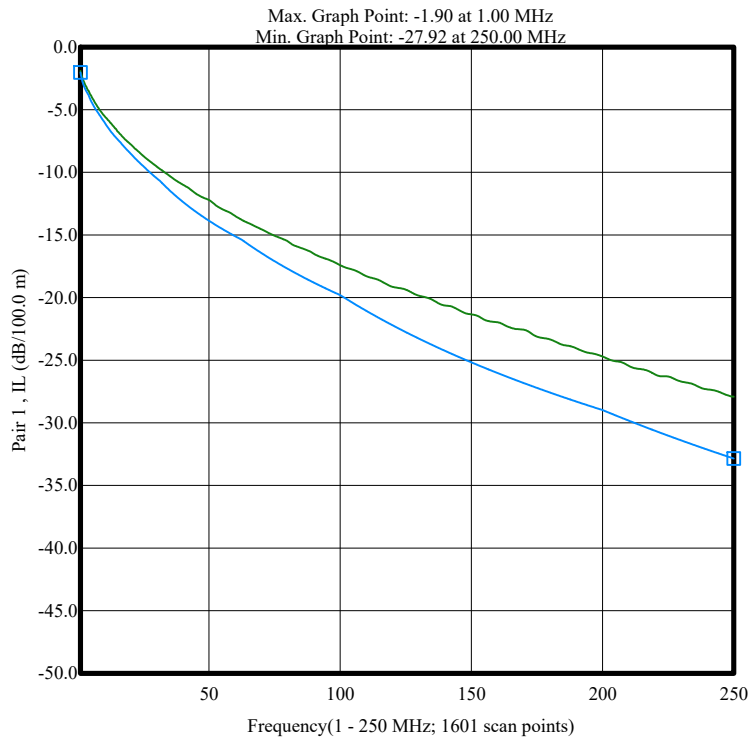
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Summary and Graphic: Insertion Loss (IL)(Curve Fit)@20C

Pair	Spec (Max)(dB/100.0 m)	Measured(dB/100.0 m)	Margin (dB/100.0 m)	@ Frequency (MHz)	Test Result
Pair 1 [13]	2.03	1.90	0.13	1.00	Passed
Pair 2 [14]	2.03	1.80	0.23	1.00	Passed
Pair 3 [15]	2.03	1.92	0.11	1.00	Passed
Pair 4 [16]	2.03	1.84	0.19	1.00	Passed



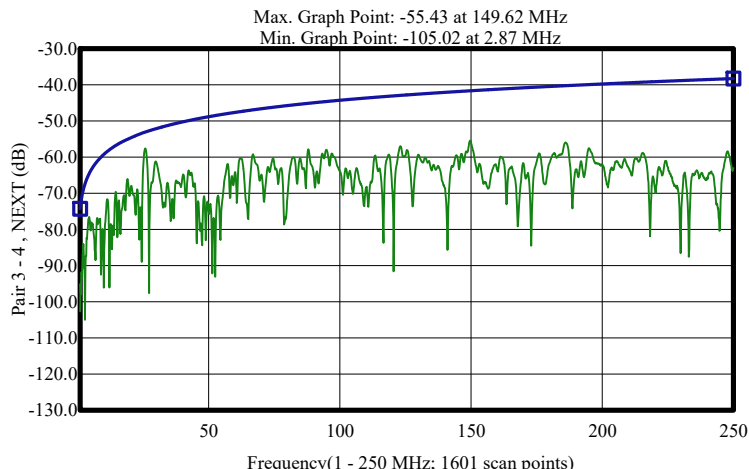
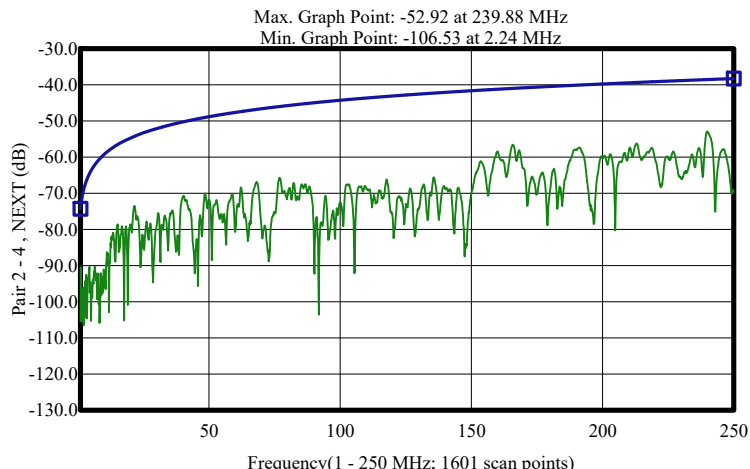
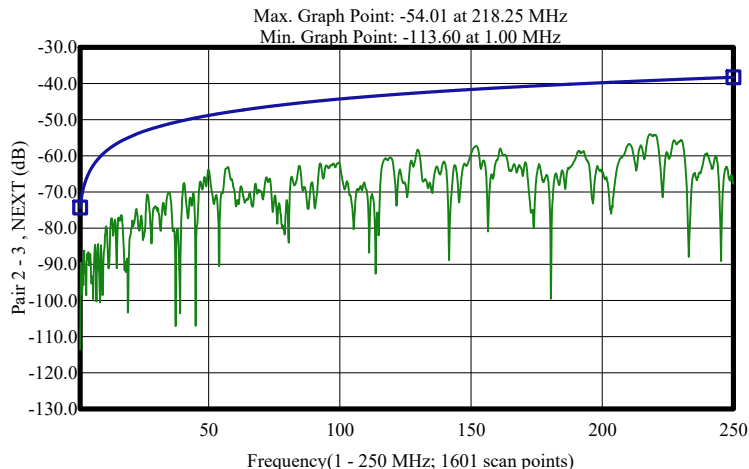
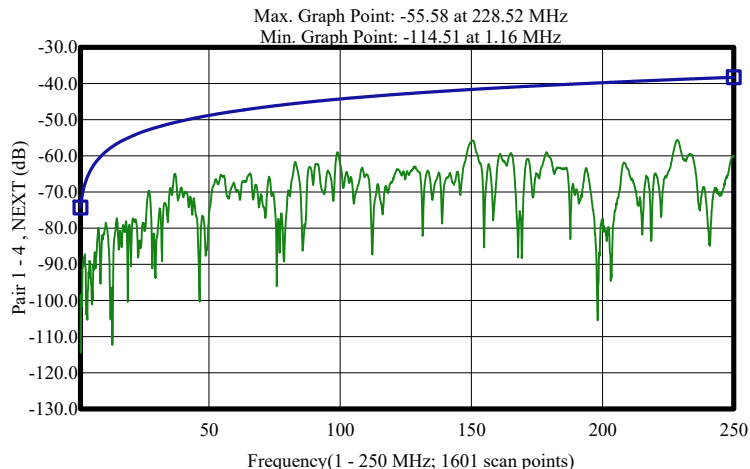
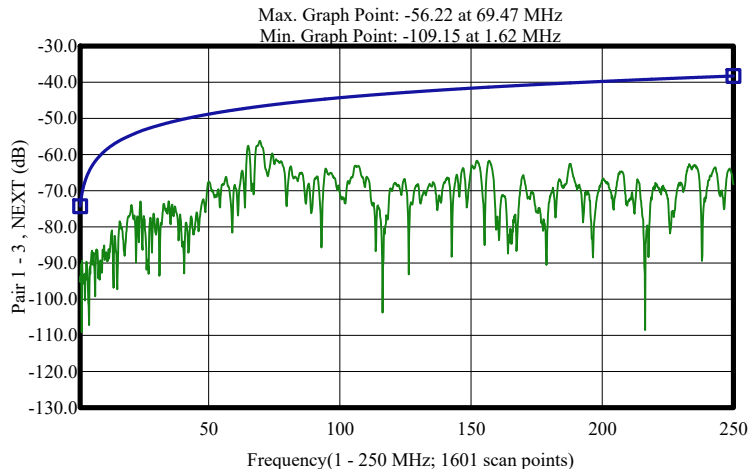
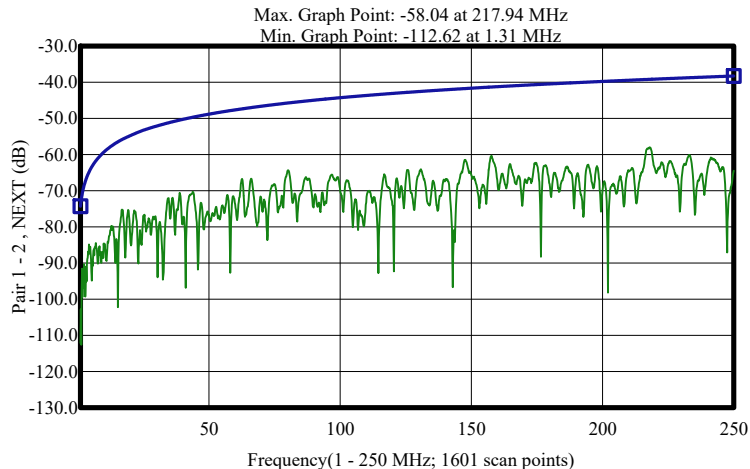
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Summary and Graphic: Near End Crosstalk Loss (NEXT)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 - 2	45.75	64.35	18.60	80.21	Passed
Pair 1 - 3	46.70	56.22	9.52	69.47	Passed
Pair 1 - 4	41.64	55.74	14.10	150.56	Passed
Pair 2 - 3	39.21	54.01	14.80	218.25	Passed
Pair 2 - 4	38.58	52.92	14.34	239.88	Passed
Pair 3 - 4	53.08	57.62	4.54	25.90	Passed



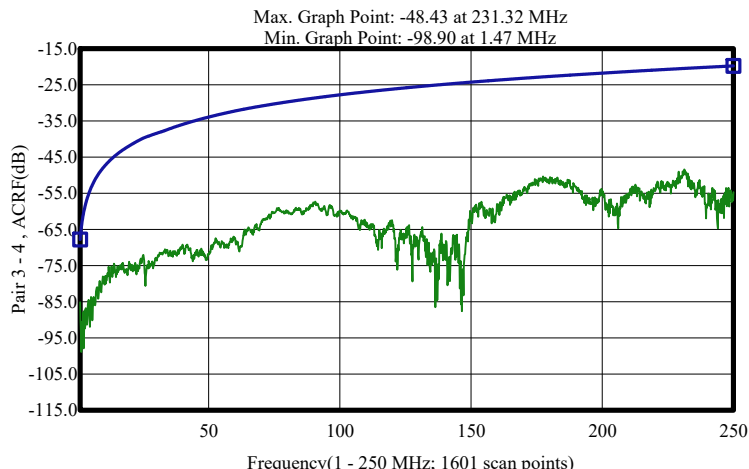
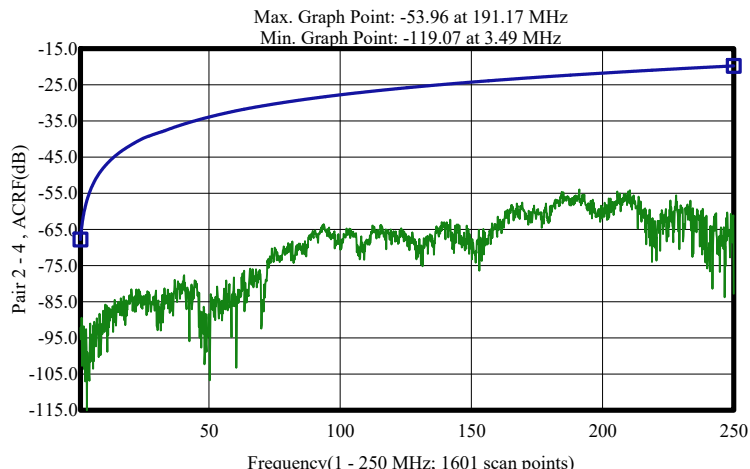
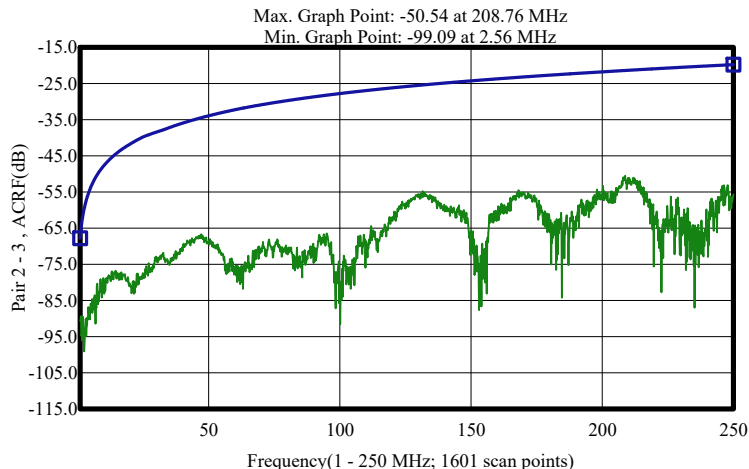
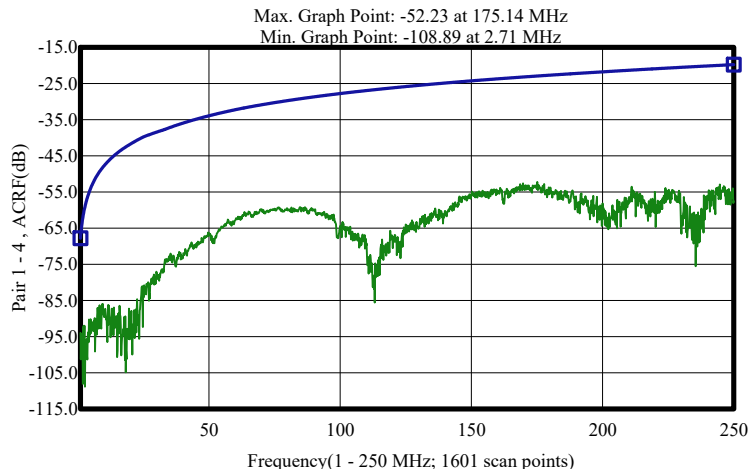
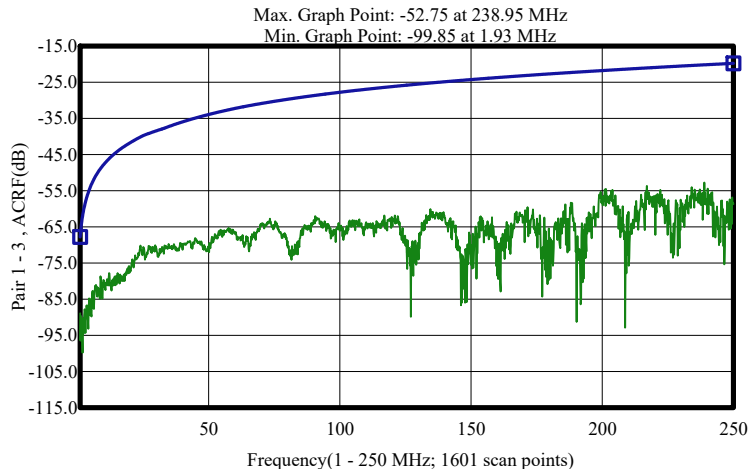
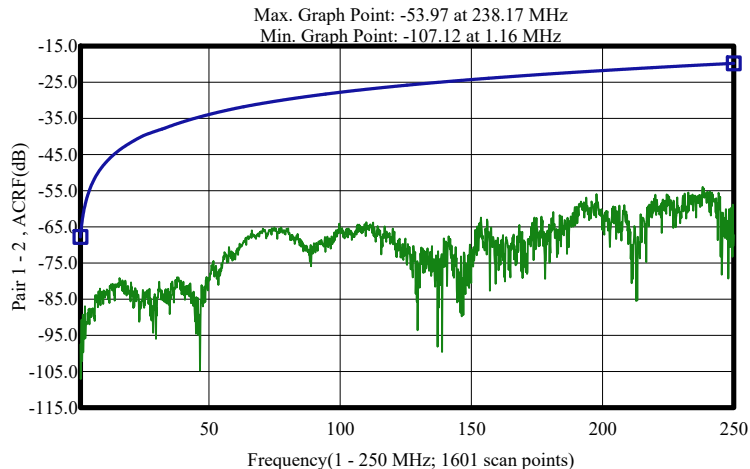
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Summary and Graphic: ACR to FEXT Ratio (ACRF)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 - 2	64.48	90.68	26.20	1.47	Passed
Pair 1 - 3	67.80	88.90	21.10	1.00	Passed
Pair 1 - 4	67.80	93.96	26.16	1.00	Passed
Pair 2 - 3	67.80	90.64	22.84	1.00	Passed
Pair 2 - 4	67.80	92.21	24.41	1.00	Passed
Pair 3 - 4	67.80	85.17	17.37	1.00	Passed



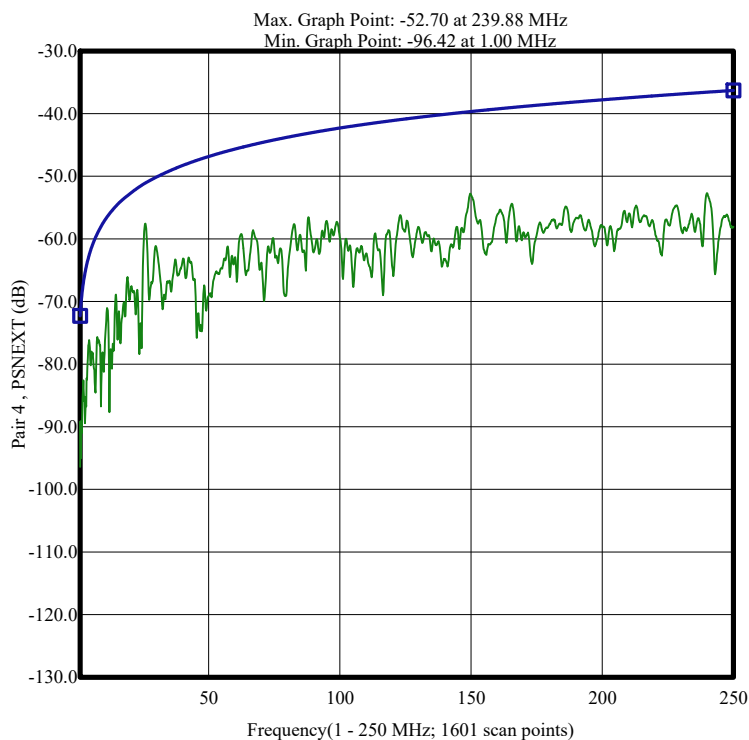
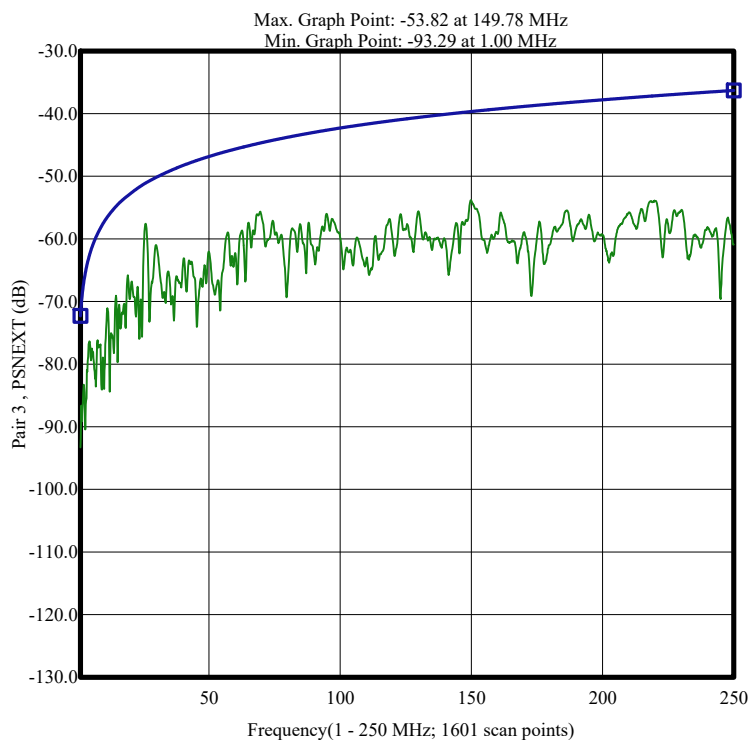
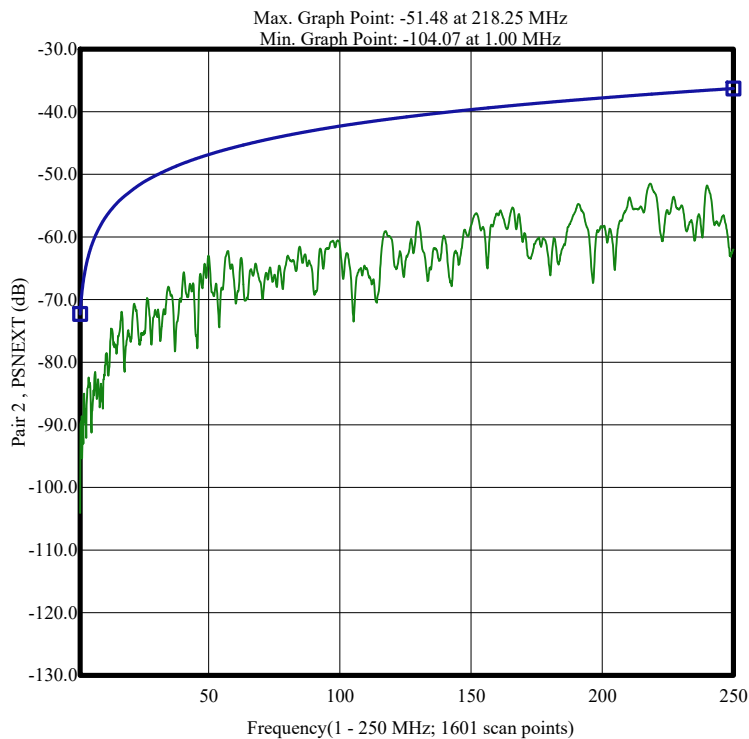
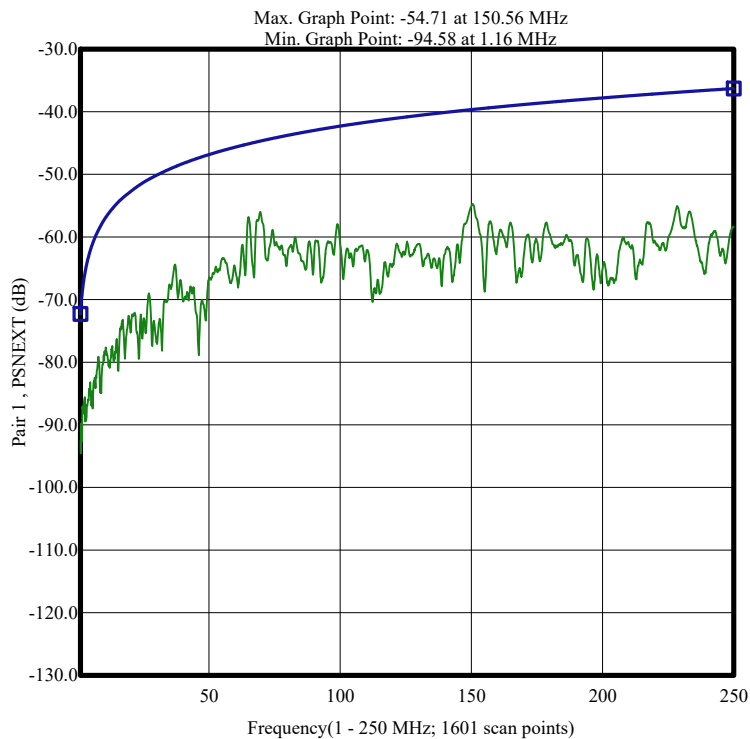
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--- = Disable/Bypassed Pair.

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Summary and Graphic: Power Sum NEXT(PSNEXT)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 [13]	44.69	55.99	11.30	69.63	Passed
Pair 2 [14]	37.21	51.48	14.27	218.25	Passed
Pair 3 [15]	51.08	57.57	6.49	25.90	Passed
Pair 4 [16]	51.08	57.56	6.48	25.90	Passed



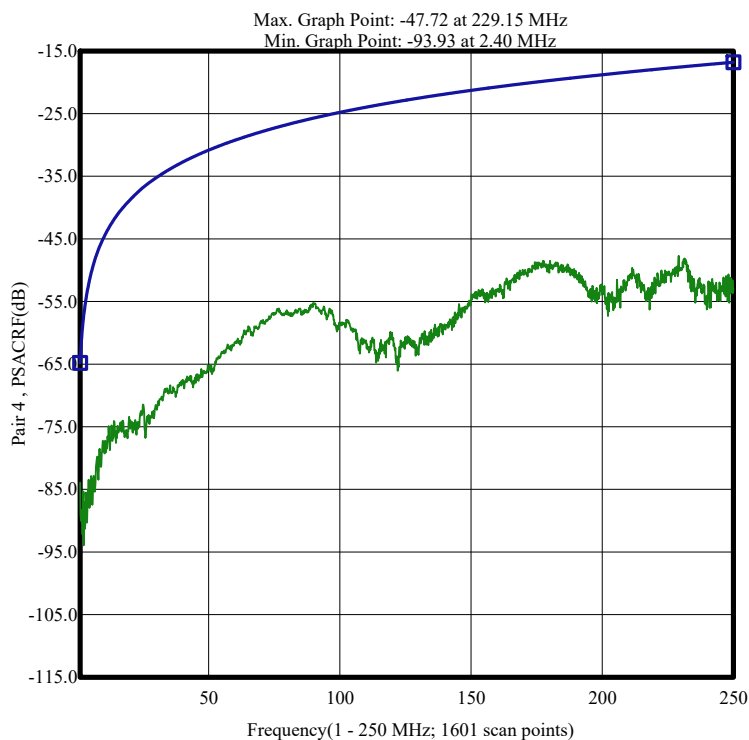
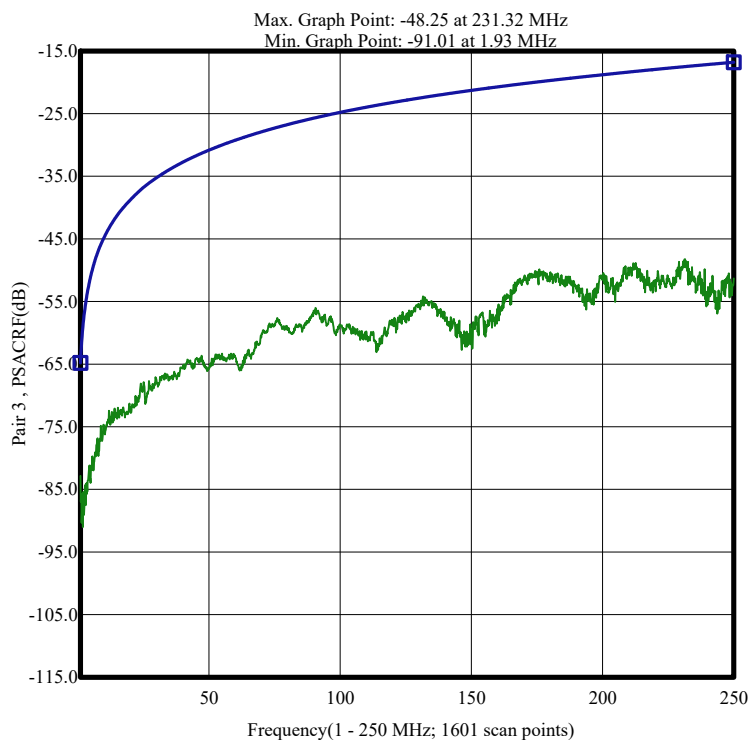
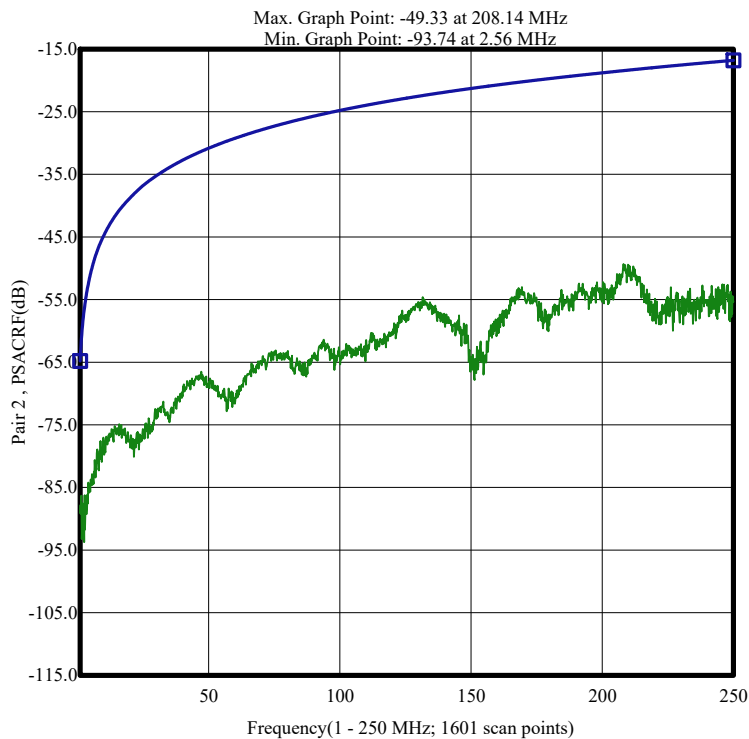
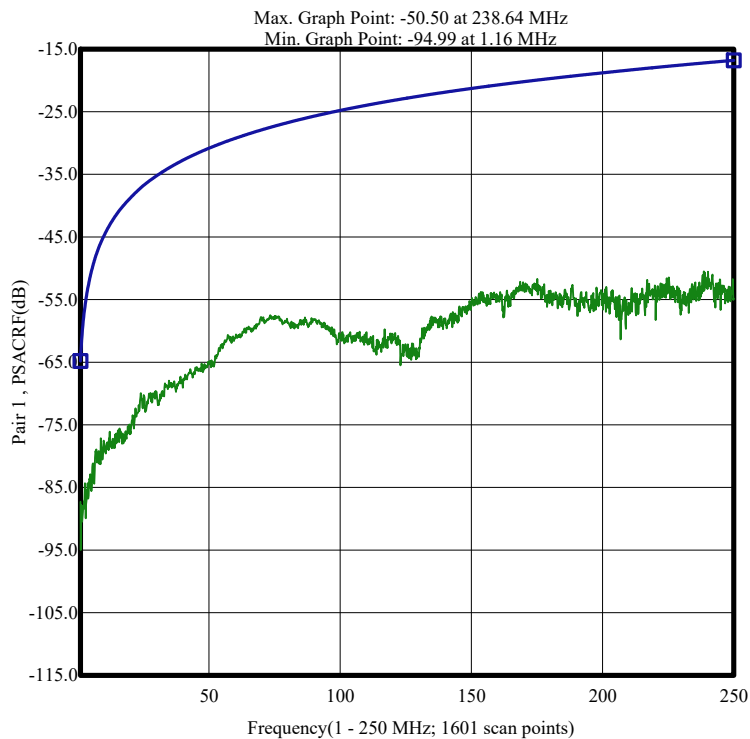
N/A = Not Applicable.
--- = Disable/Bypassed Pair.

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Summary and Graphic: Power Sum ACRF (PSACRF)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 [13]	64.80	87.29	22.49	1.00	Passed
Pair 2 [14]	64.80	87.85	23.05	1.00	Passed
Pair 3 [15]	64.80	82.85	18.05	1.00	Passed
Pair 4 [16]	64.80	83.93	19.13	1.00	Passed



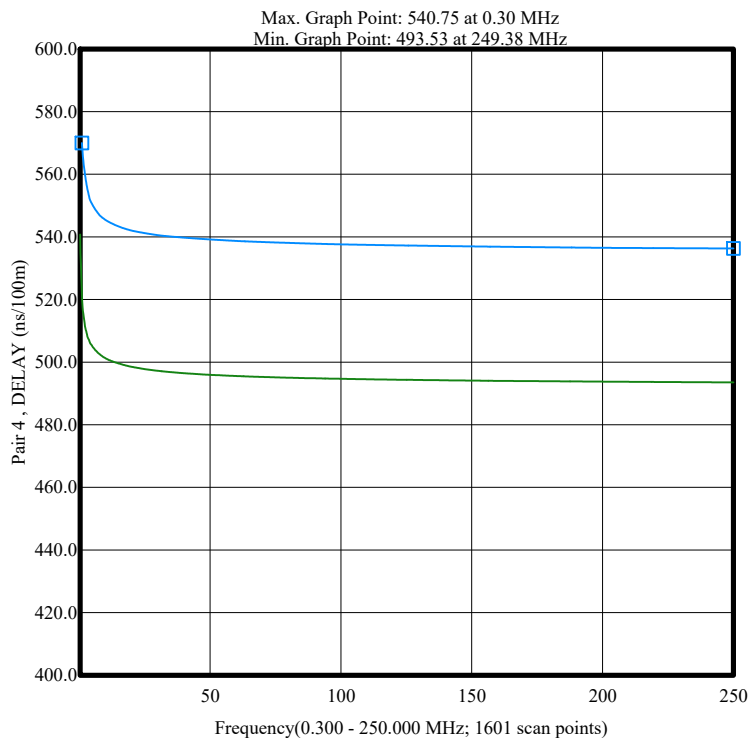
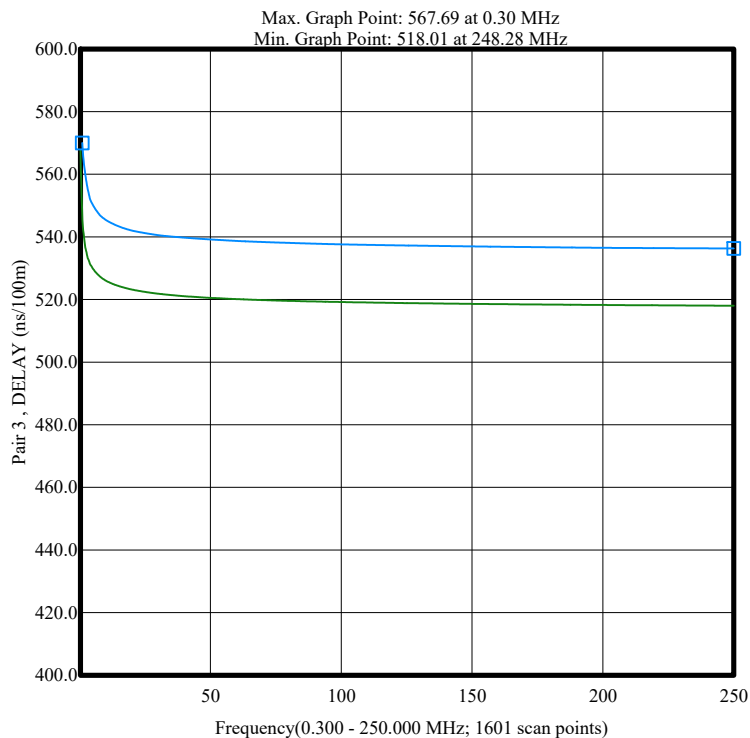
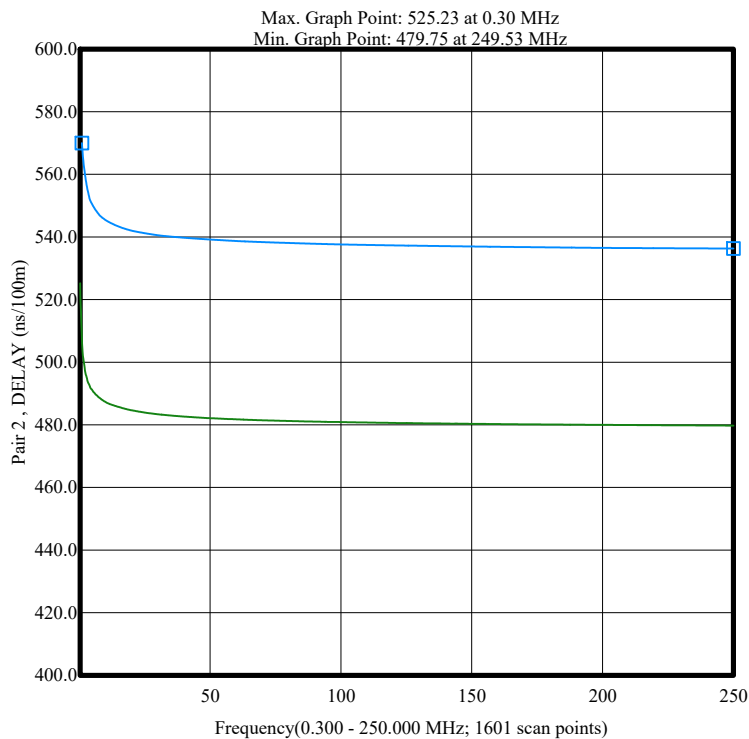
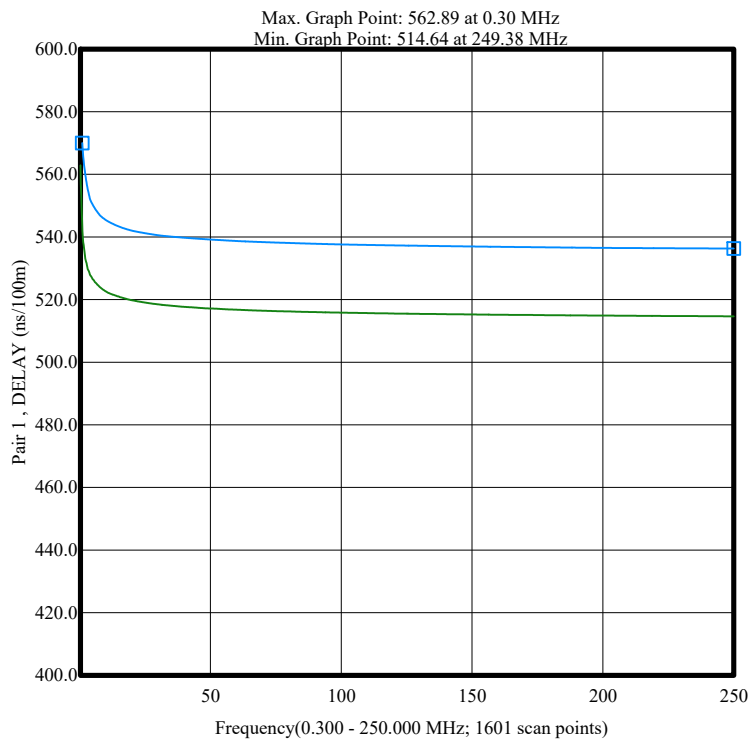
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Summary and Graphic: Propagation Delay (DELAY)

Pair	Spec (Max)(ns/100m)	Measured(ns/100m)	Margin (ns/100m)	@ Frequency (MHz)	Test Result
Pair 1 [13]	536.50	514.90	21.60	199.59	Passed
Pair 2 [14]	536.49	479.98	56.51	201.15	Passed
Pair 3 [15]	536.50	518.26	18.24	199.59	Passed
Pair 4 [16]	536.49	493.76	42.73	201.15	Passed



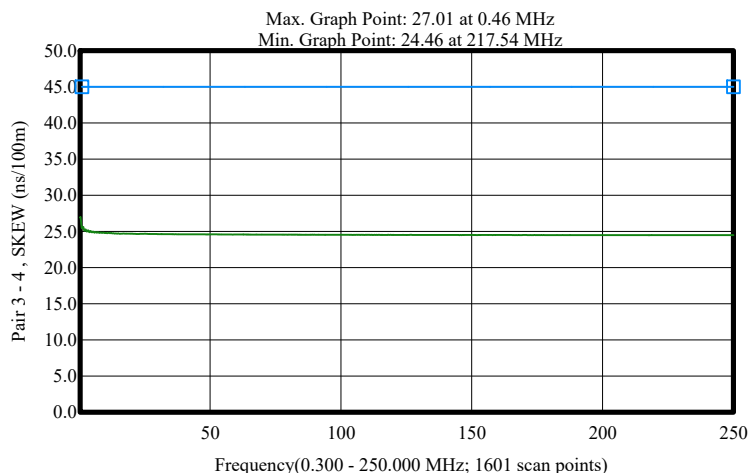
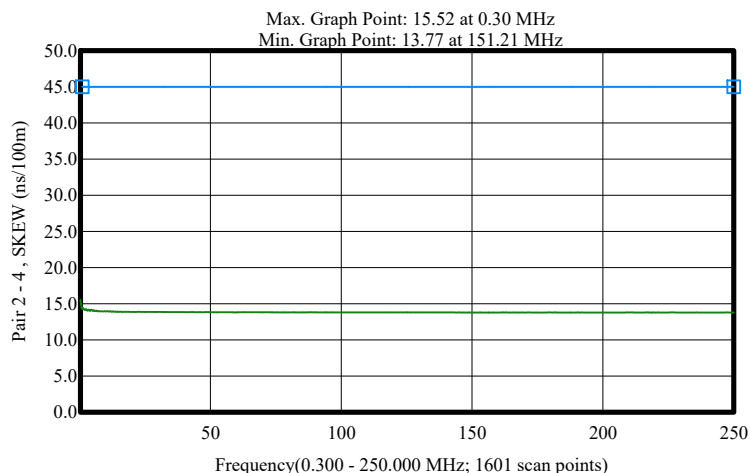
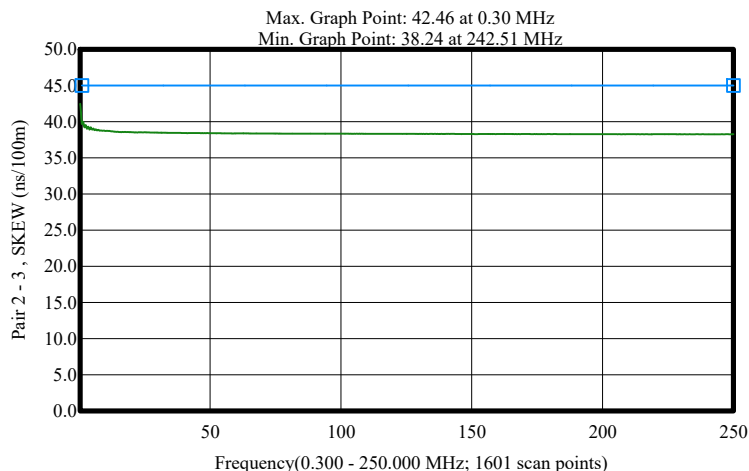
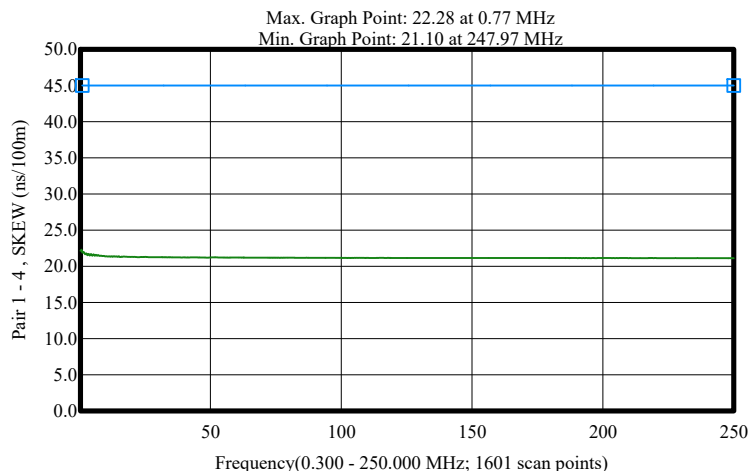
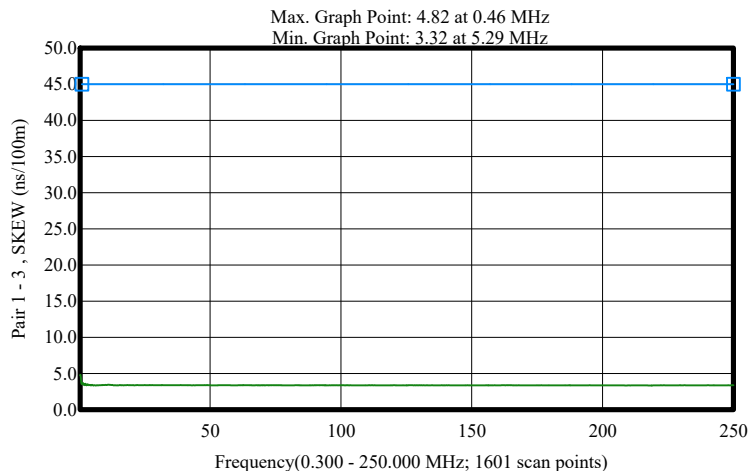
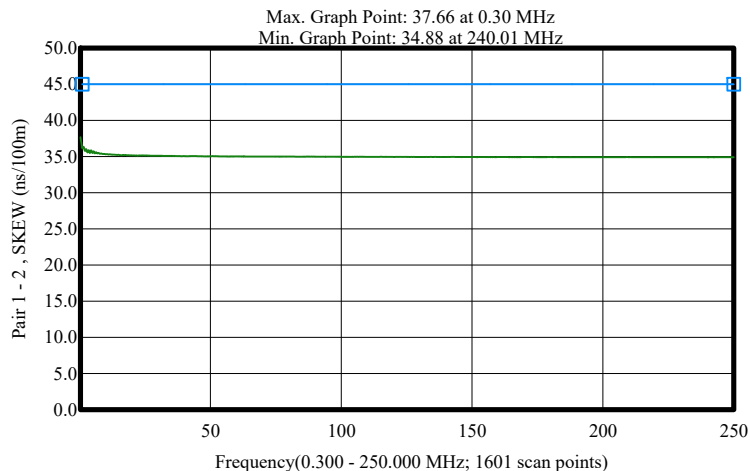
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Summary and Graphic: Propagation Delay Skew (SKEW)

Pair	Spec (Max)(ns/100m)	Measured(ns/100m)	Margin (ns/100m)	@ Frequency (MHz)	Test Result
Pair 1 - 2	45.00	36.33	8.67	1.55	Passed
Pair 1 - 3	45.00	3.69	41.31	1.39	Passed
Pair 1 - 4	45.00	21.99	23.01	1.55	Passed
Pair 2 - 3	45.00	39.98	5.02	1.39	Passed
Pair 2 - 4	45.00	14.38	30.62	1.39	Passed
Pair 3 - 4	45.00	25.60	19.40	1.39	Passed



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