

DCM Test Report

Cable Type : 4x2x24 x ALL	Factory Number : 2019120301	Data File Name : DA154180.D3S
Cable I.D. : CAT5E F/UTP CABLE	Order Number : J03191222A005	Specification File : sk-4fht5-139.S3S
Temperature : 23.00 癈	Relative Humidity : 50 %	Test Date/Time : 12/23/2019 01:18:20 PM
Length : 100.00 m	Number of Pairs to Test : 4	Operator : GHJ
Starting Position : 9		Analyzer Type : ENA

Pass - Fail Test Certificate - 4 Pairs

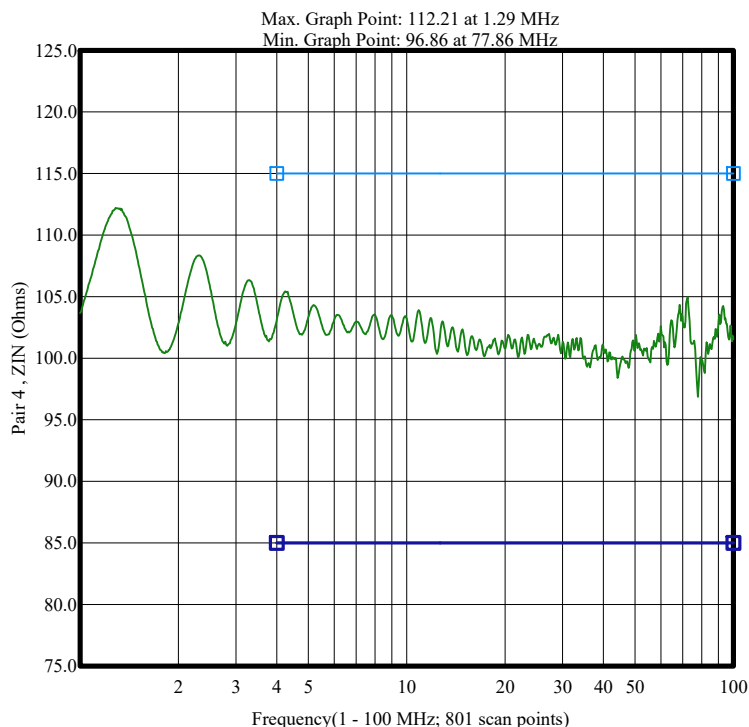
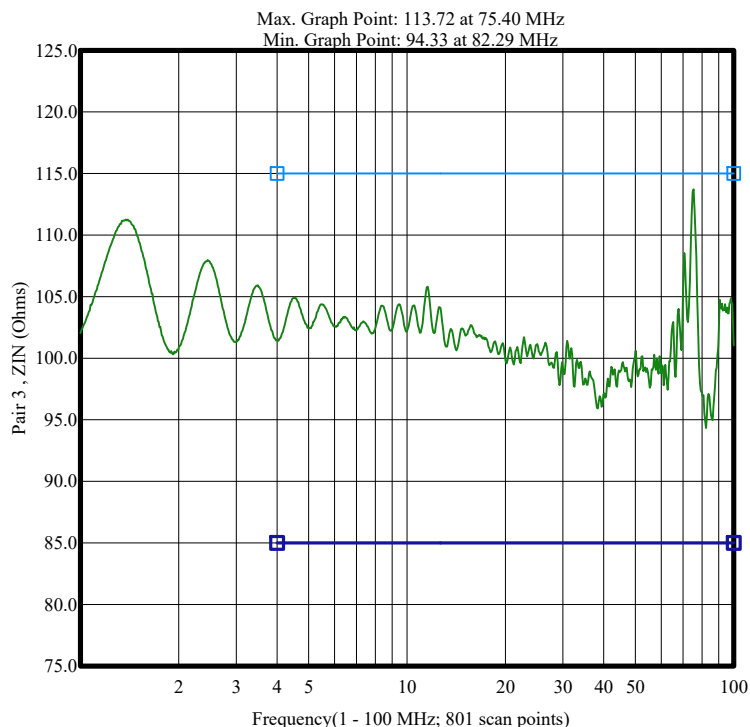
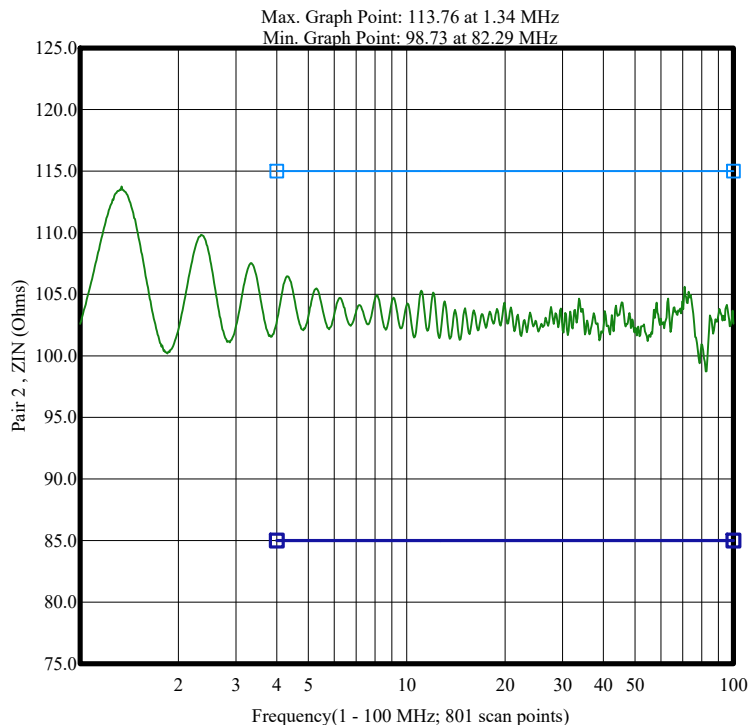
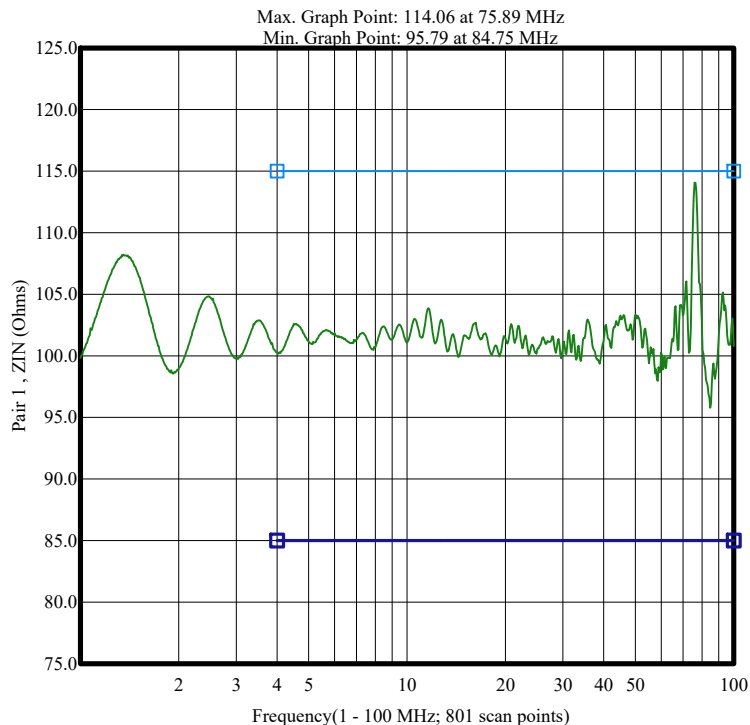
High Frequency

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 [9]	85.00	115.00	95.79	114.06	10.79	0.94	84.75	75.89	Passed
Pair 2 [10]	85.00	115.00	98.73	106.46	13.73	8.54	82.29	4.30	Passed
Pair 3 [11]	85.00	115.00	94.33	113.72	9.33	1.28	82.29	75.40	Passed
Pair 4 [12]	85.00	115.00	96.86	105.42	11.86	9.58	77.86	4.24	Passed



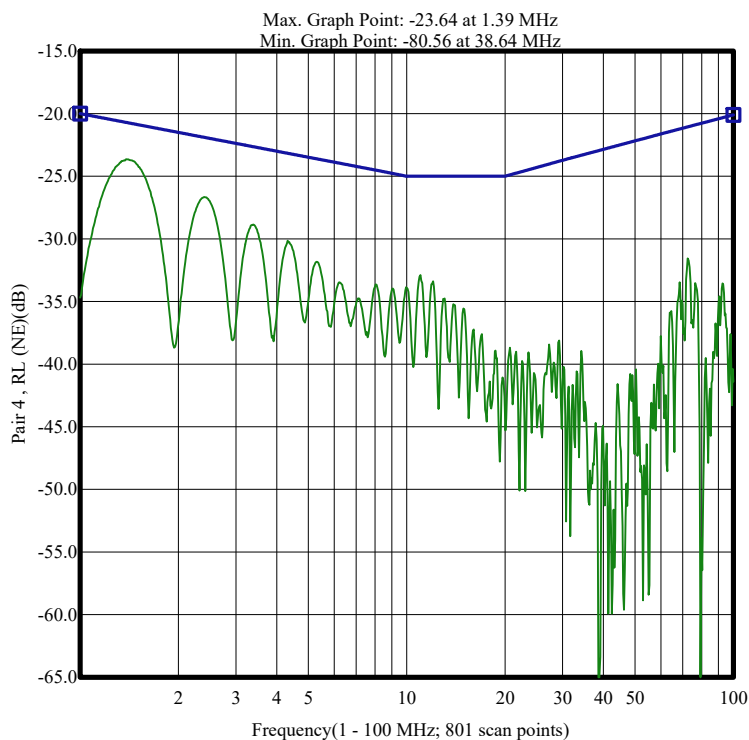
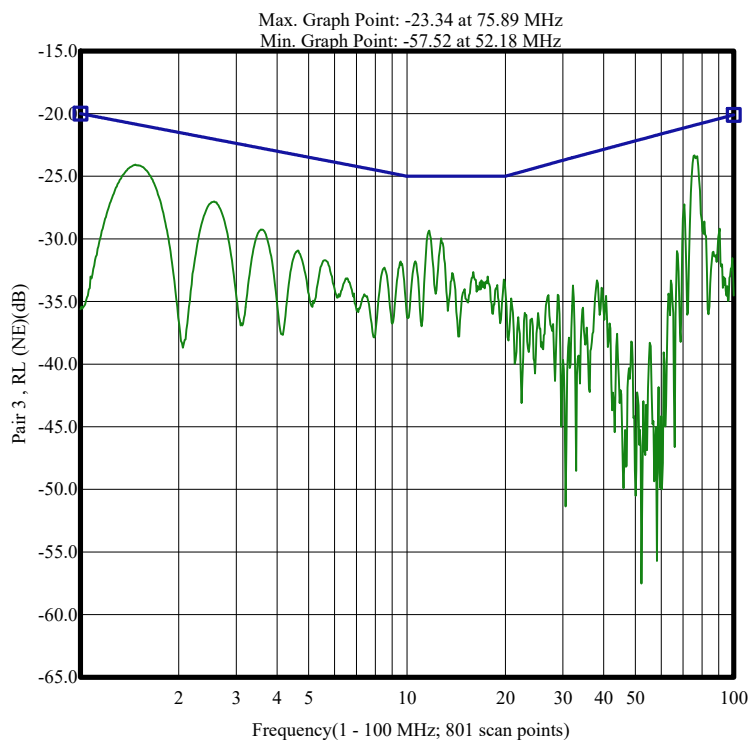
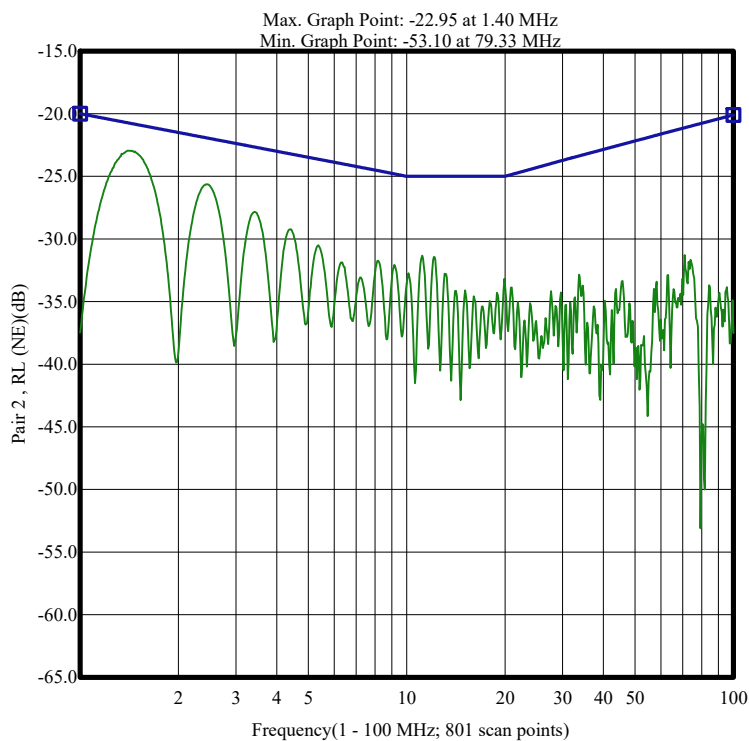
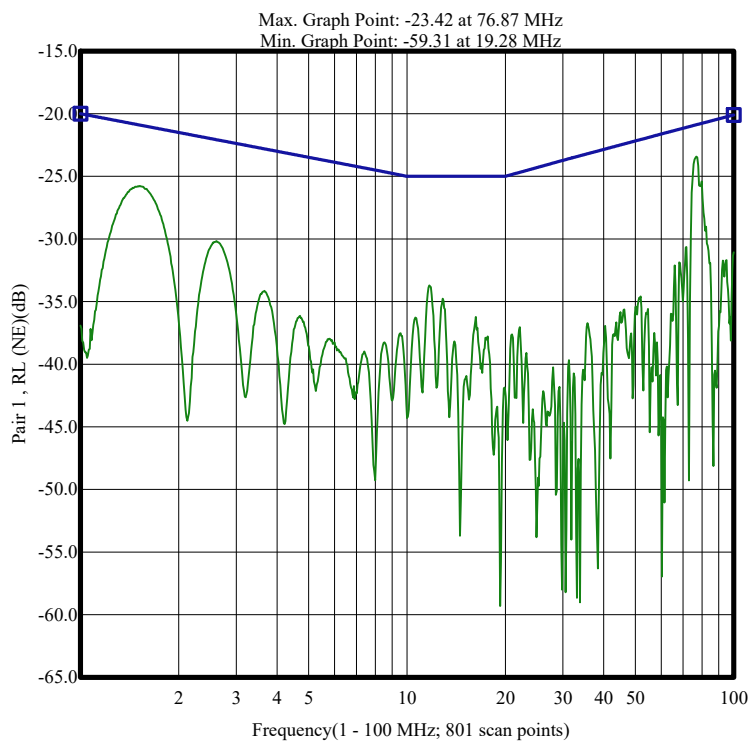
N/A = Not Applicable.
--- = Disable/Bypassed Pair.

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Summary and Graphic: Return Loss (RL)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 [9]	20.88	23.42	2.54	76.87	Passed
Pair 2 [10]	20.80	22.96	2.16	1.44	Passed
Pair 3 [11]	20.92	23.34	2.42	75.89	Passed
Pair 4 [12]	20.74	23.65	2.91	1.41	Passed



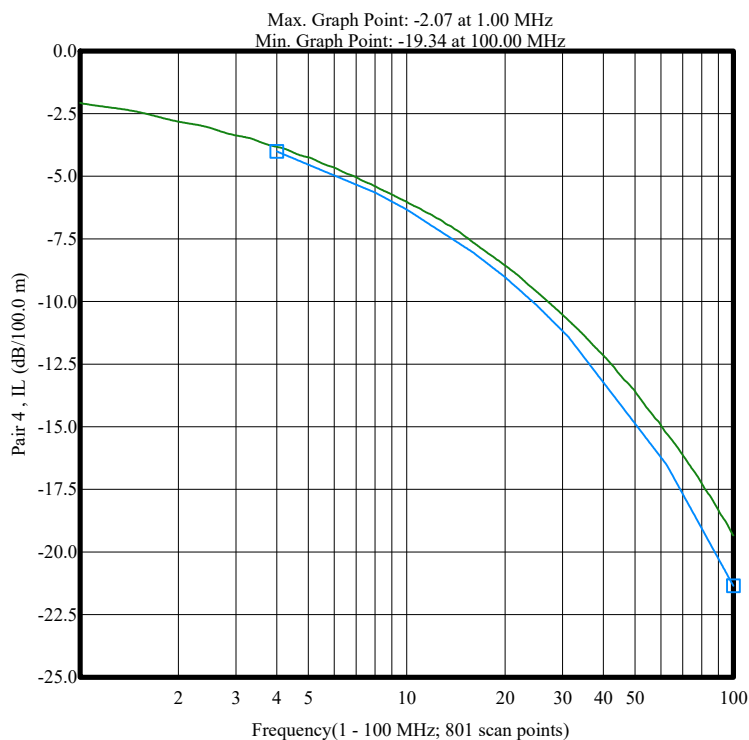
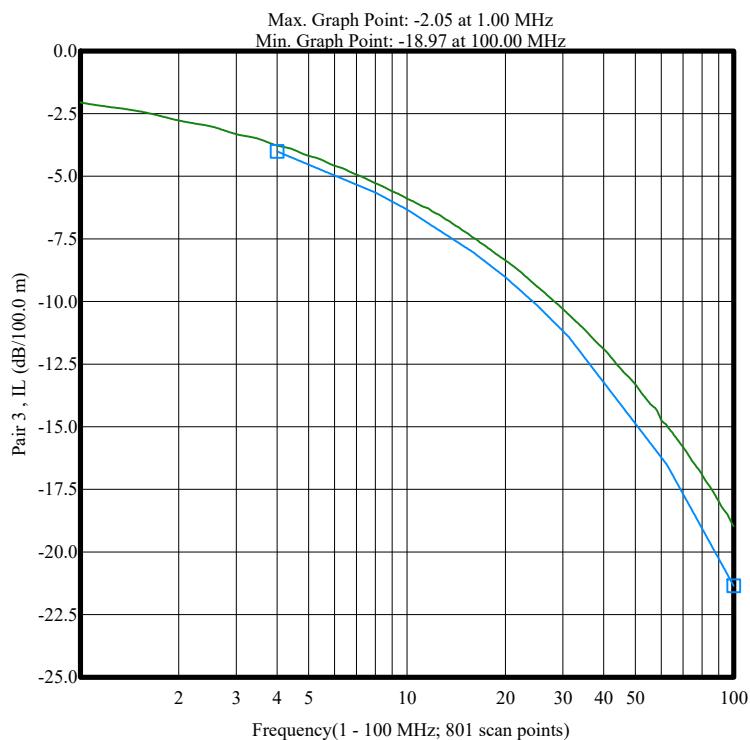
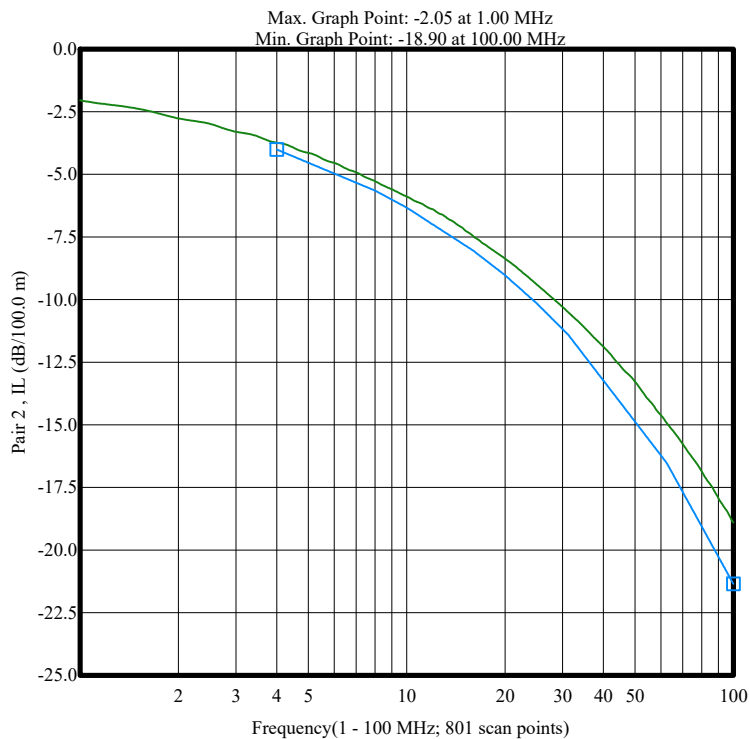
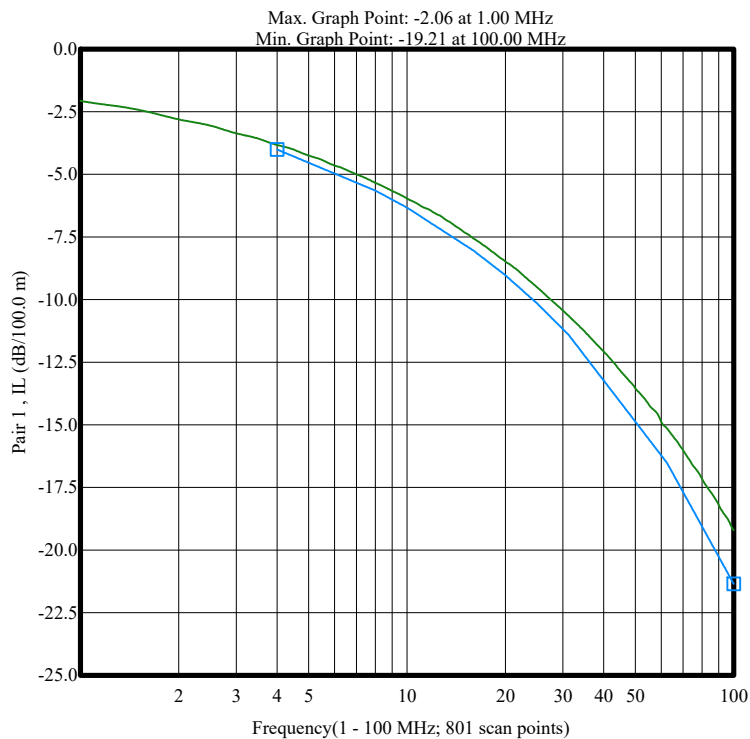
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Summary and Graphic: Insertion Loss (IL)(Curve Fit)@20C

Pair	Spec (Max)(dB/100.0 m)	Measured(dB/100.0 m)	Margin (dB/100.0 m)	@ Frequency (MHz)	Test Result
Pair 1 [9]	4.02	3.84	0.18	4.02	Passed
Pair 2 [10]	4.02	3.74	0.28	4.02	Passed
Pair 3 [11]	4.02	3.78	0.24	4.02	Passed
Pair 4 [12]	4.02	3.83	0.19	4.02	Passed



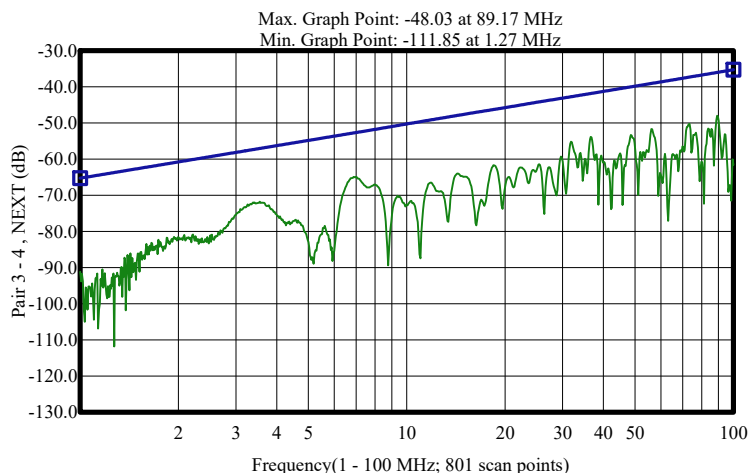
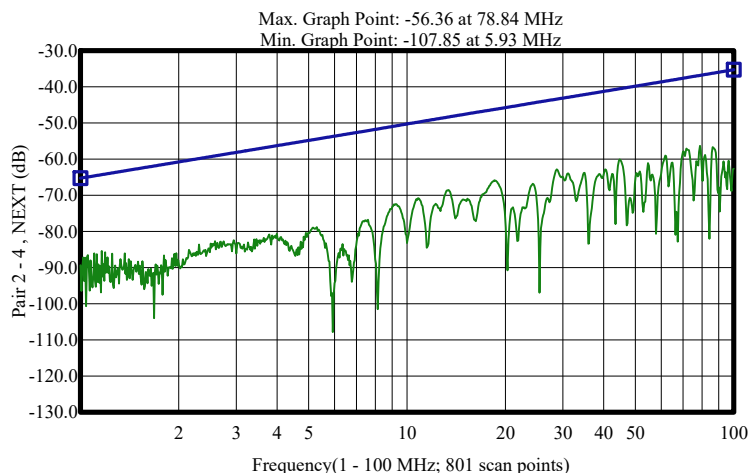
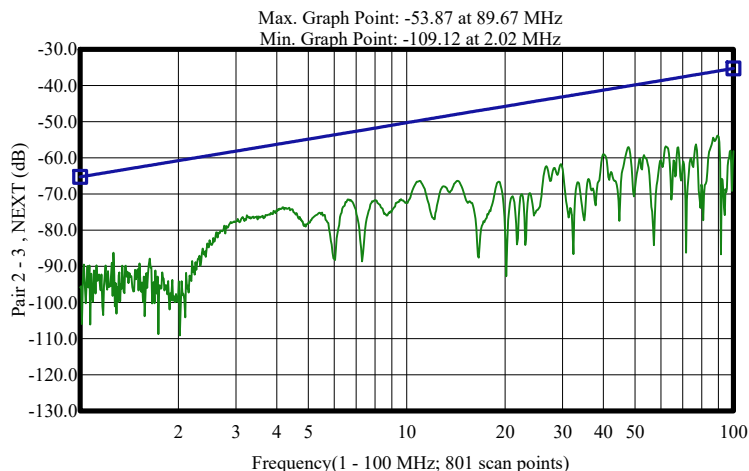
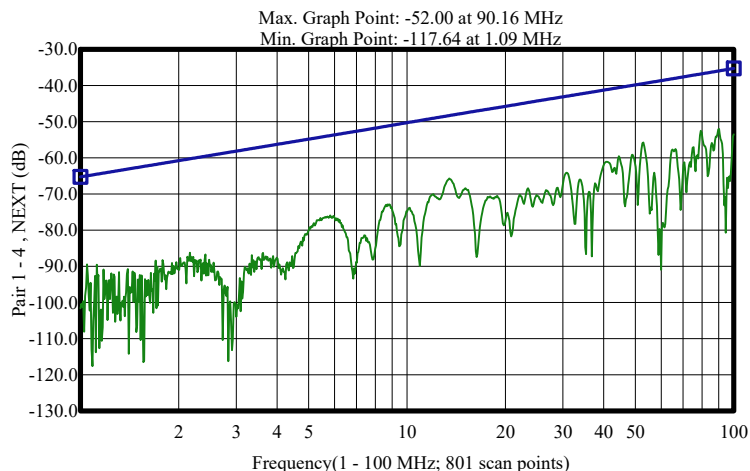
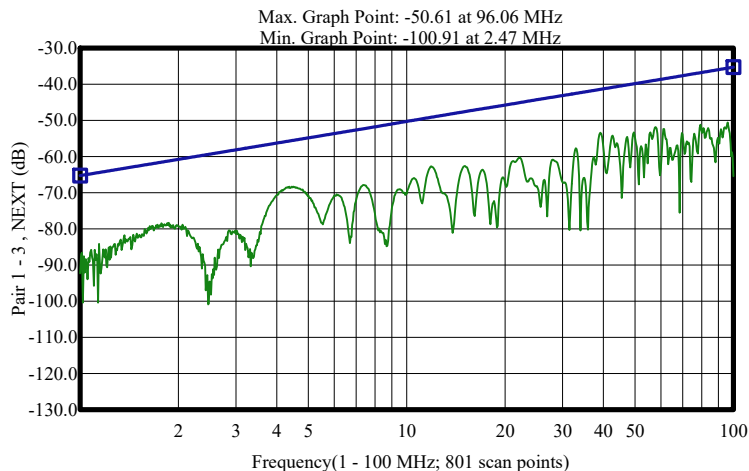
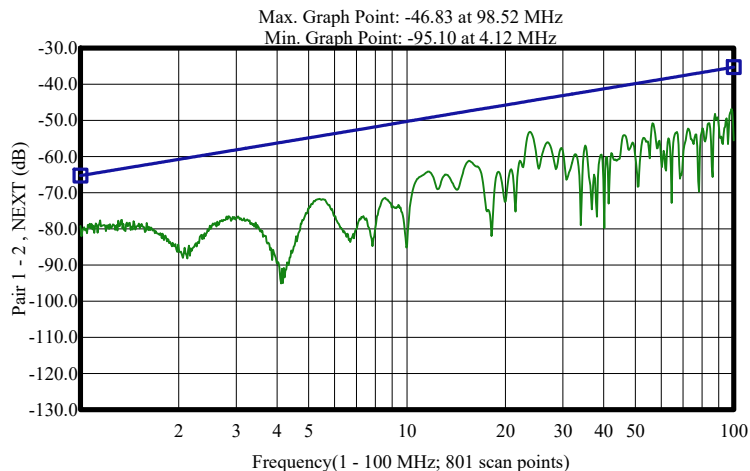
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Summary and Graphic: Near End Crosstalk Loss (NEXT)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 - 2	44.65	53.19	8.54	23.73	Passed
Pair 1 - 3	41.44	53.43	11.99	39.15	Passed
Pair 1 - 4	36.83	52.53	15.70	79.33	Passed
Pair 2 - 3	49.70	66.38	16.68	10.95	Passed
Pair 2 - 4	43.42	62.85	19.43	28.74	Passed
Pair 3 - 4	36.06	48.03	11.97	89.17	Passed



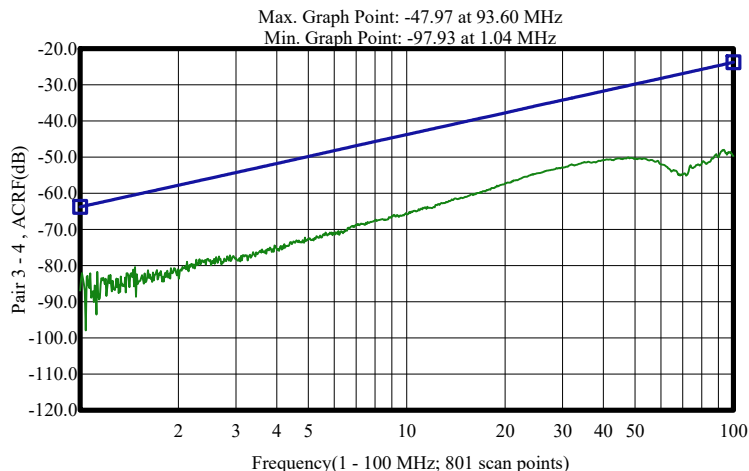
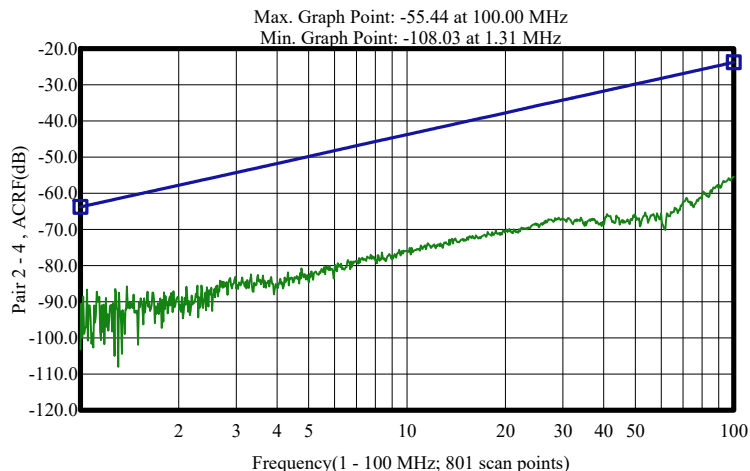
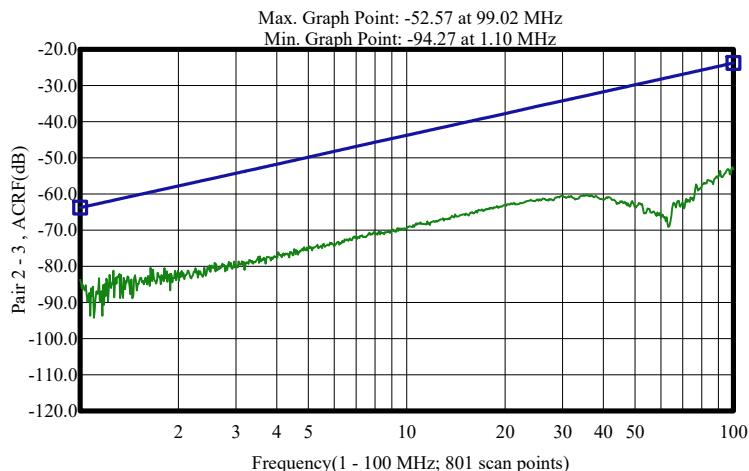
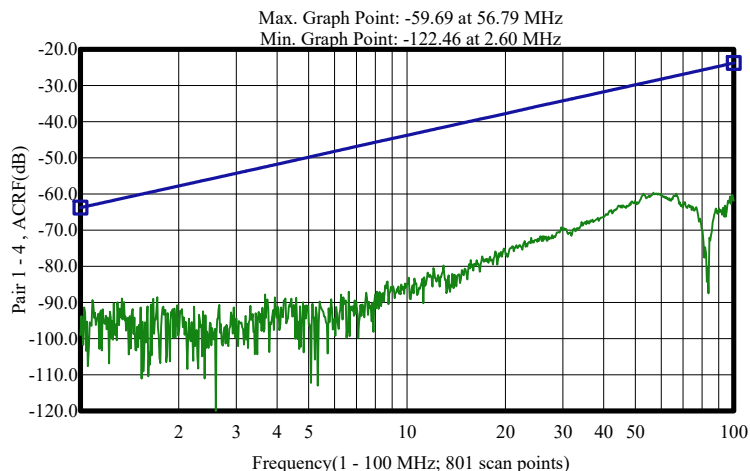
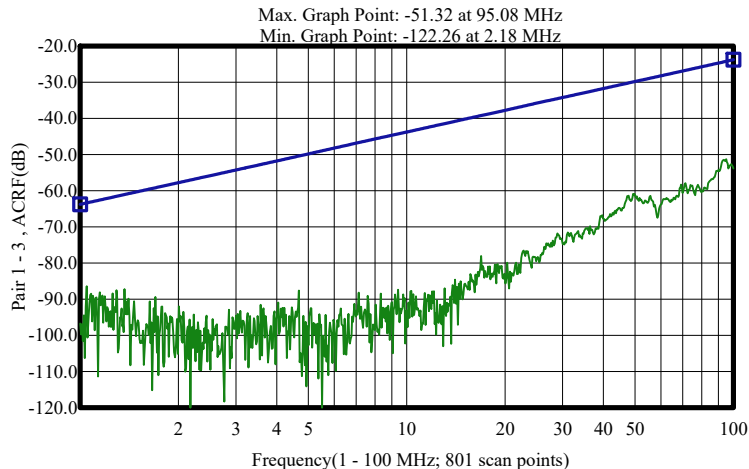
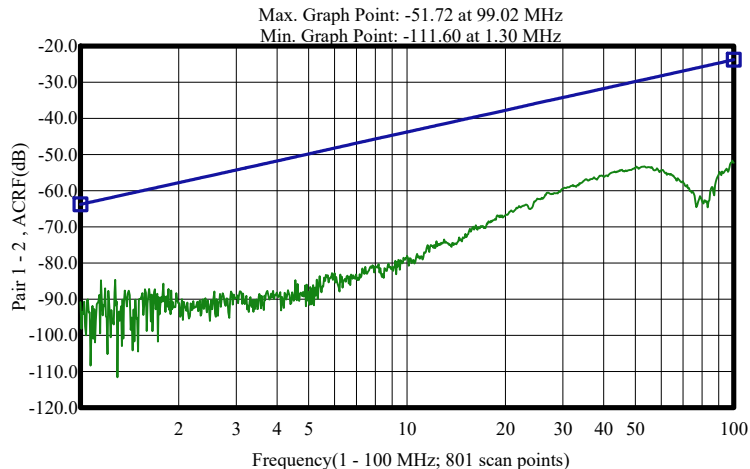
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Summary and Graphic: ACR to FEXT Ratio (ACRF)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 - 2	62.54	84.78	22.24	1.16	Passed
Pair 1 - 3	63.40	86.44	23.04	1.05	Passed
Pair 1 - 4	63.07	89.37	26.30	1.09	Passed
Pair 2 - 3	61.77	81.20	19.43	1.26	Passed
Pair 2 - 4	63.40	86.67	23.27	1.05	Passed
Pair 3 - 4	33.69	52.04	18.35	32.03	Passed



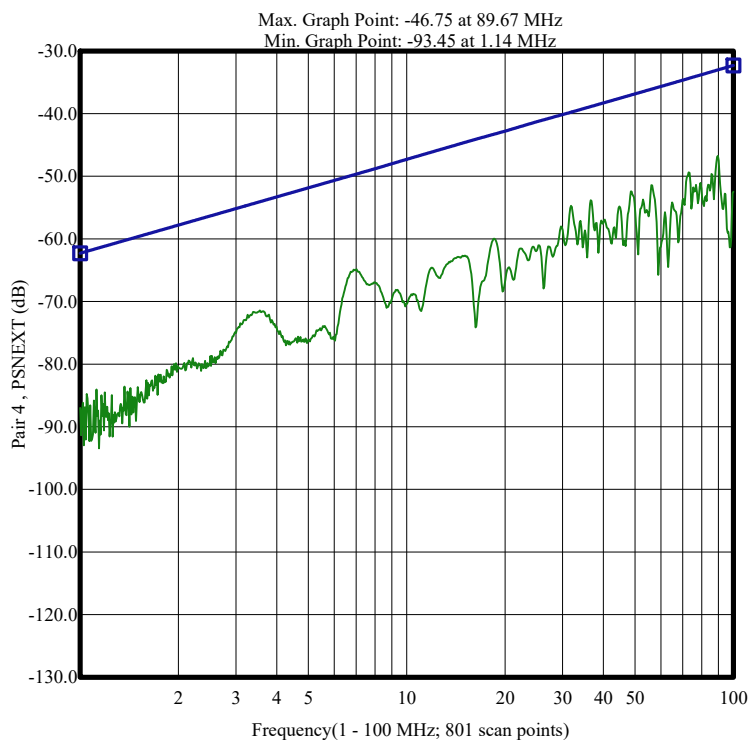
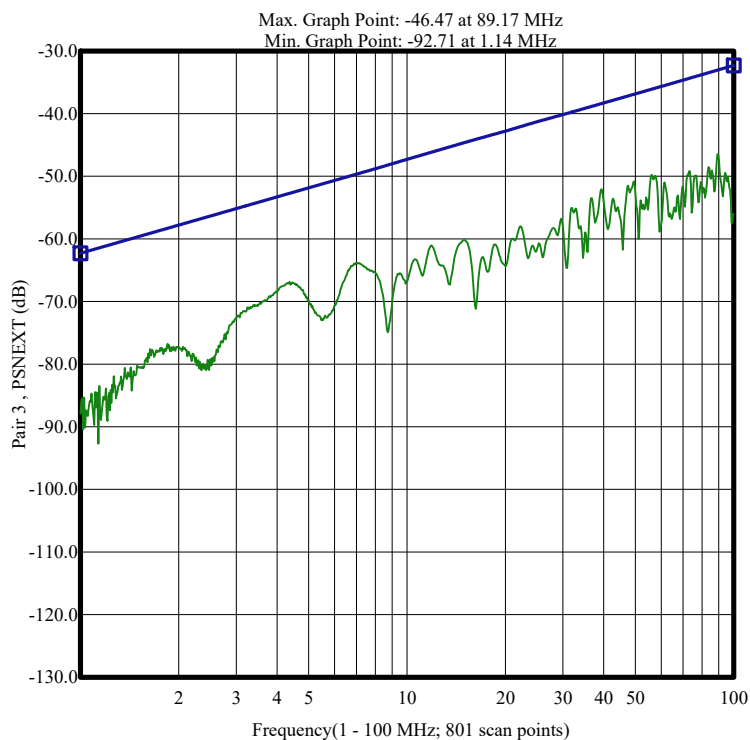
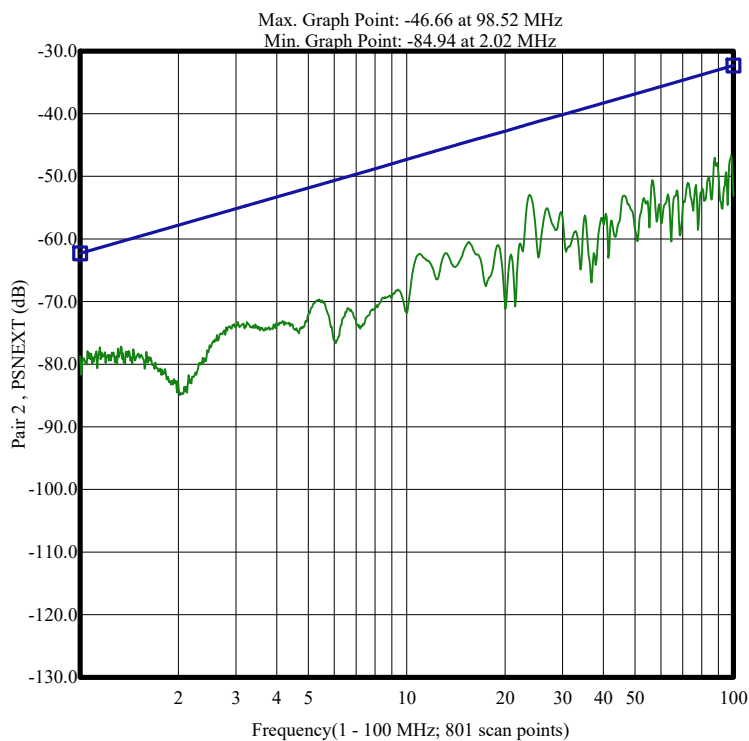
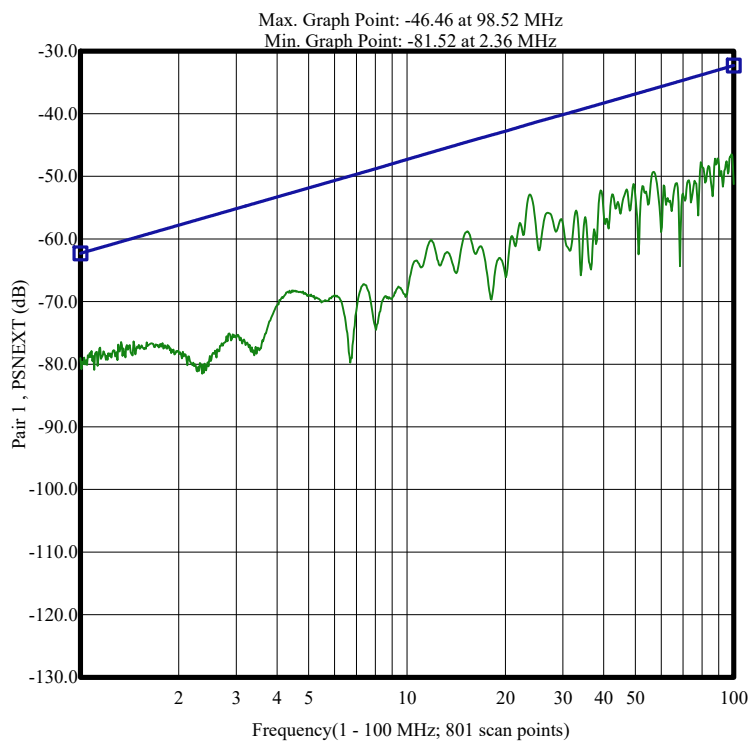
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Summary and Graphic: Power Sum NEXT(PSNEXT)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 [9]	41.65	52.90	11.25	23.73	Passed
Pair 2 [10]	41.65	52.98	11.33	23.73	Passed
Pair 3 [11]	33.06	46.47	13.41	89.17	Passed
Pair 4 [12]	33.02	46.75	13.73	89.67	Passed



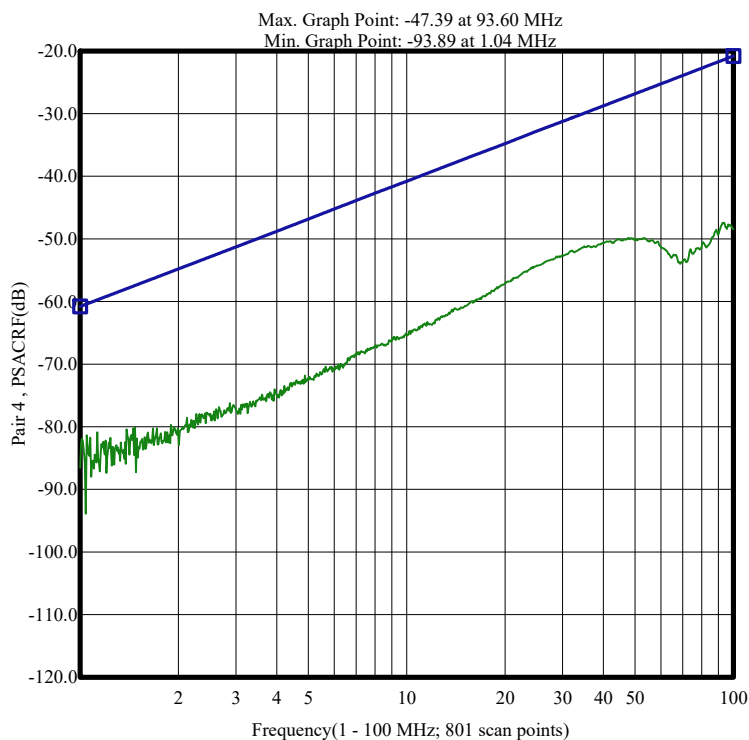
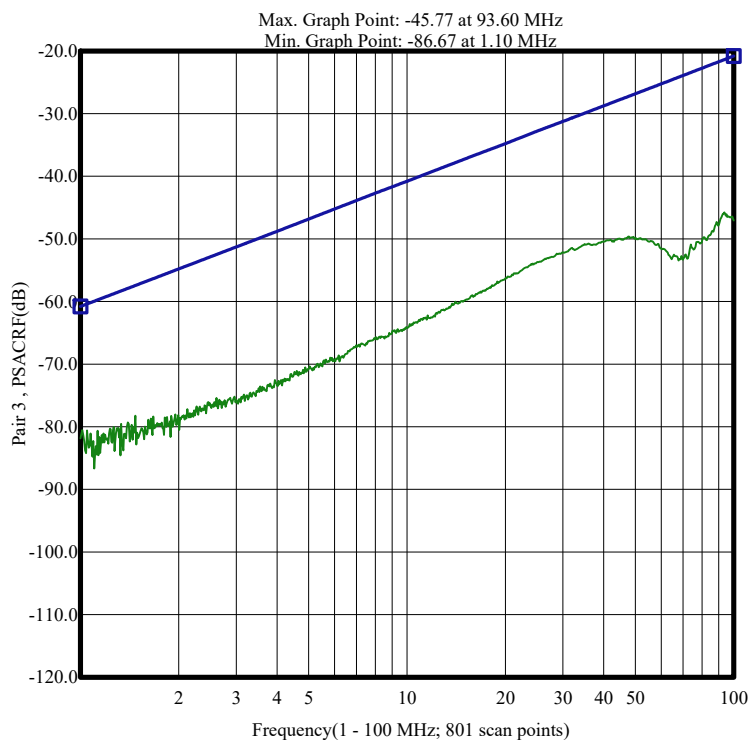
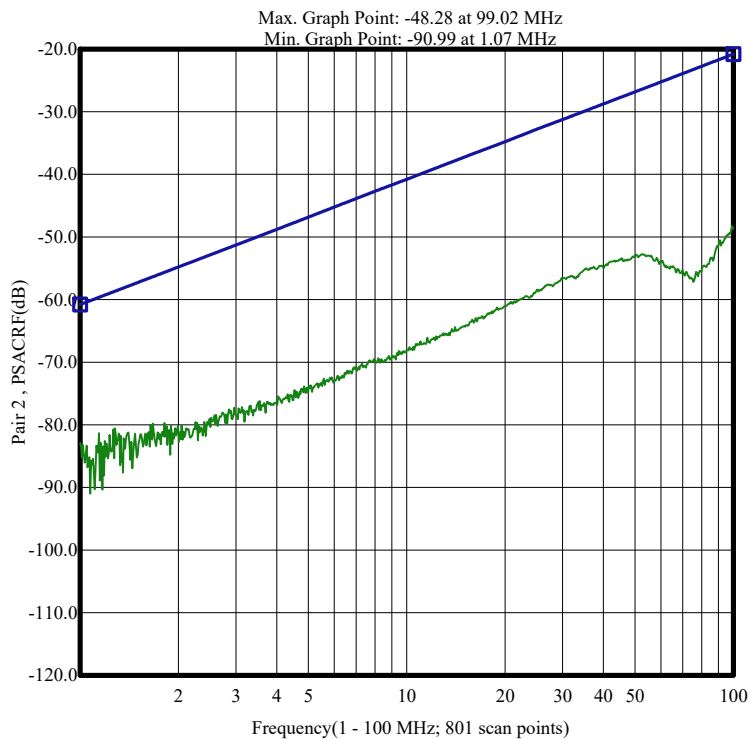
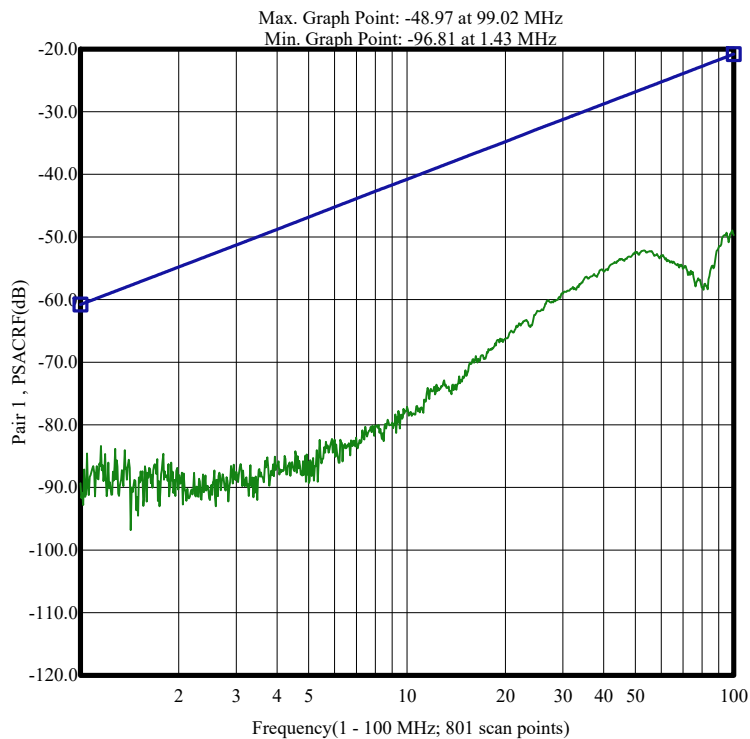
N/A = Not Applicable.
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Summary and Graphic: Power Sum ACRF (PSACRF)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 [9]	59.54	83.37	23.83	1.16	Passed
Pair 2 [10]	59.65	81.34	21.69	1.14	Passed
Pair 3 [11]	60.68	80.54	19.86	1.01	Passed
Pair 4 [12]	60.40	81.36	20.96	1.05	Passed



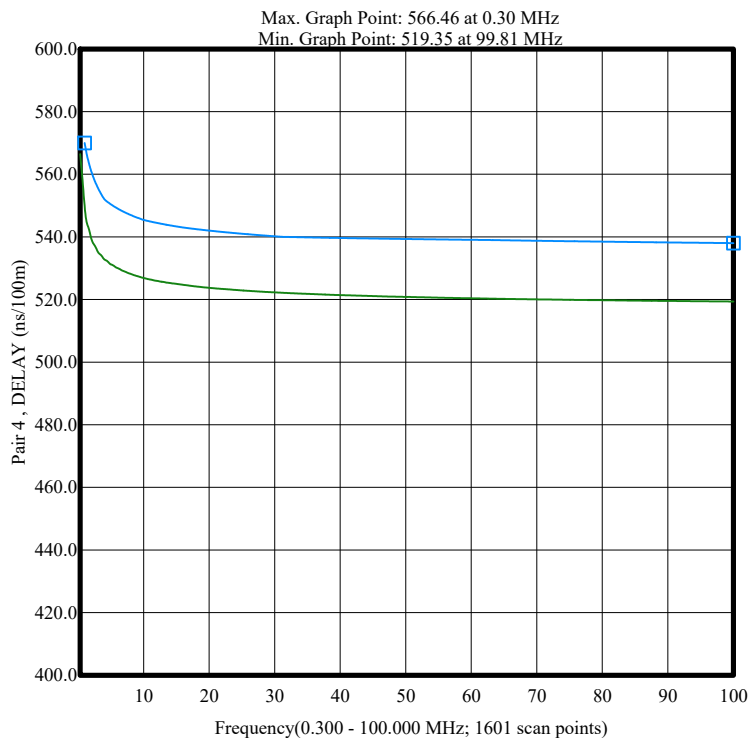
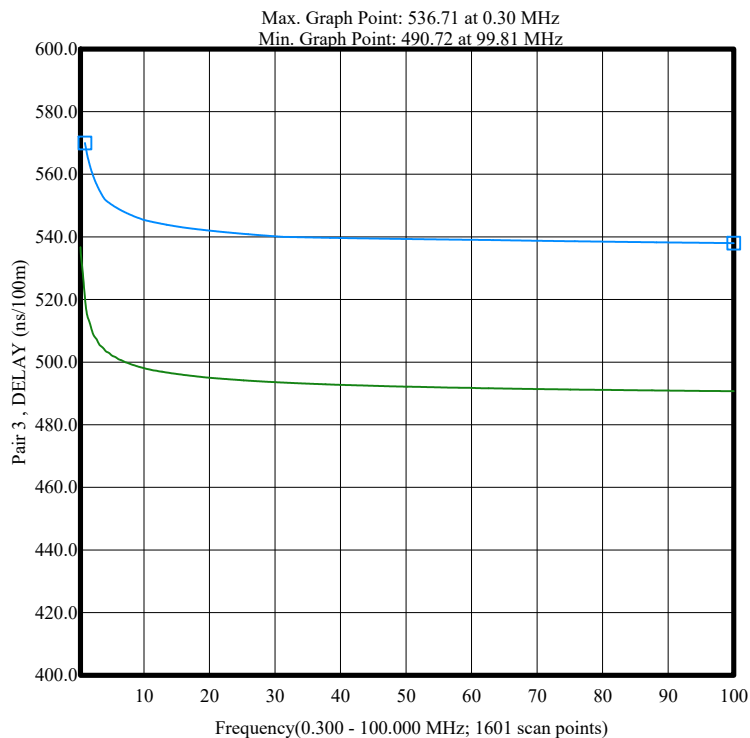
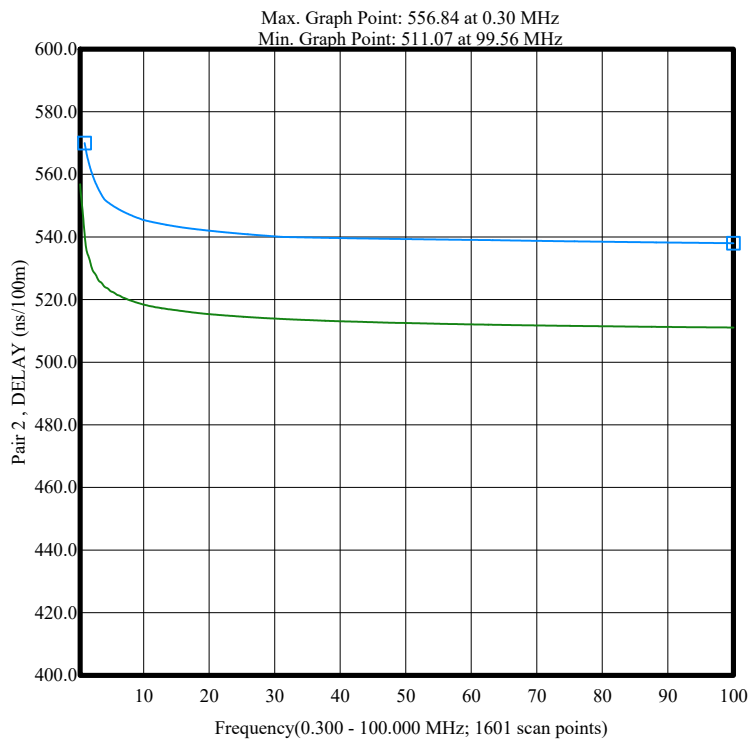
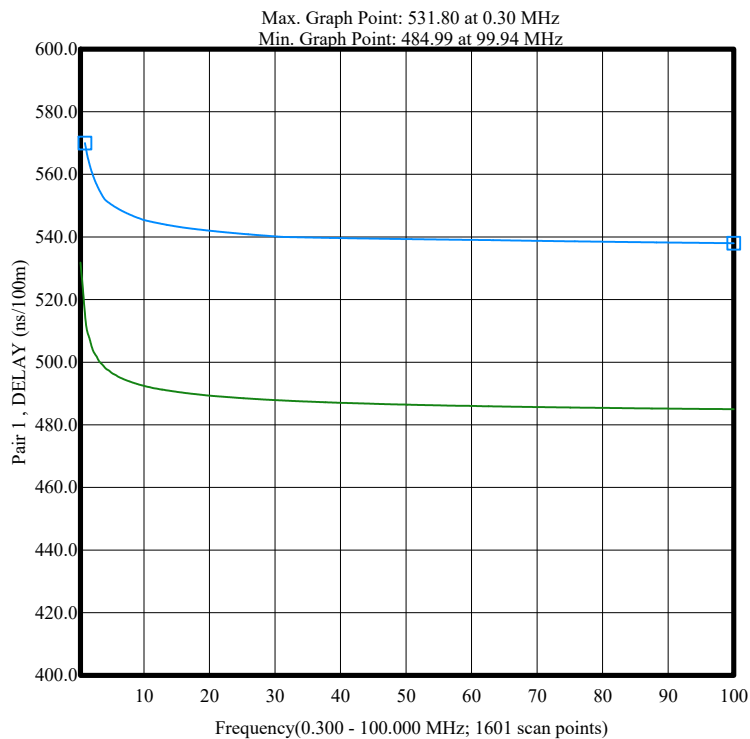
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Summary and Graphic: Propagation Delay (DELAY)

Pair	Spec (Max)(ns/100m)	Measured(ns/100m)	Margin (ns/100m)	@ Frequency (MHz)	Test Result
Pair 1 [9]	540.02	487.79	52.23	31.08	Passed
Pair 2 [10]	539.99	513.78	26.21	31.39	Passed
Pair 3 [11]	540.04	493.50	46.54	30.96	Passed
Pair 4 [12]	540.01	522.15	17.86	31.21	Passed



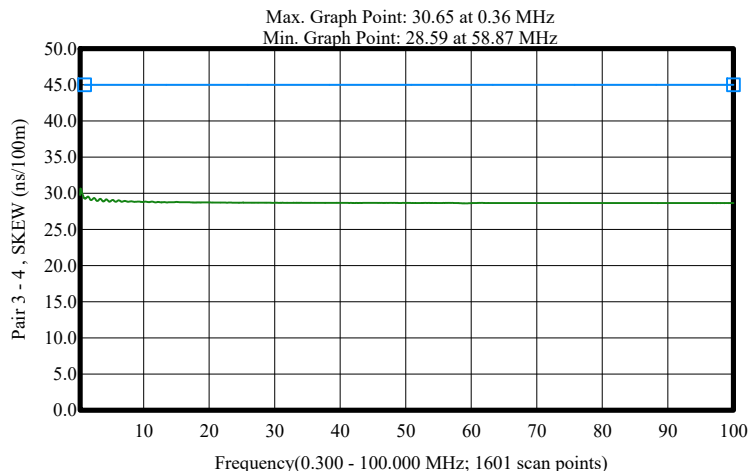
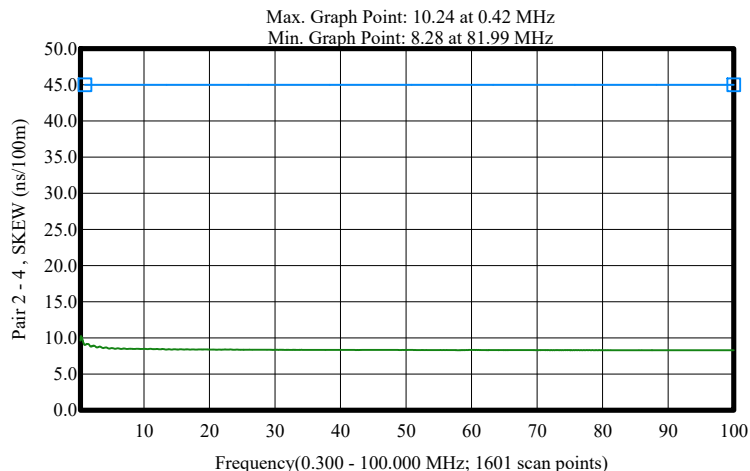
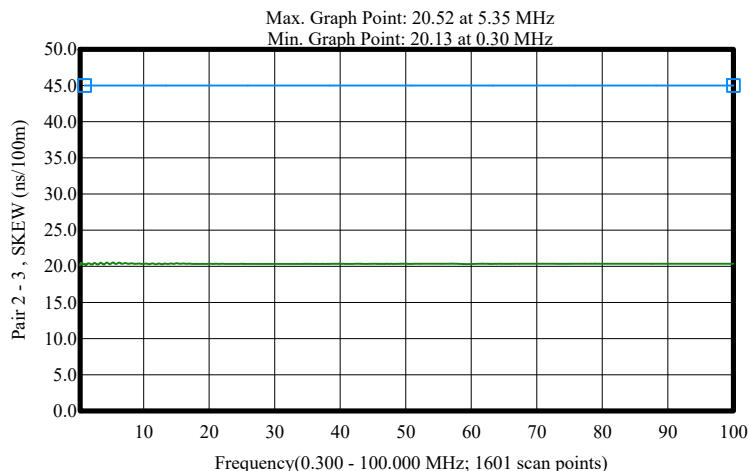
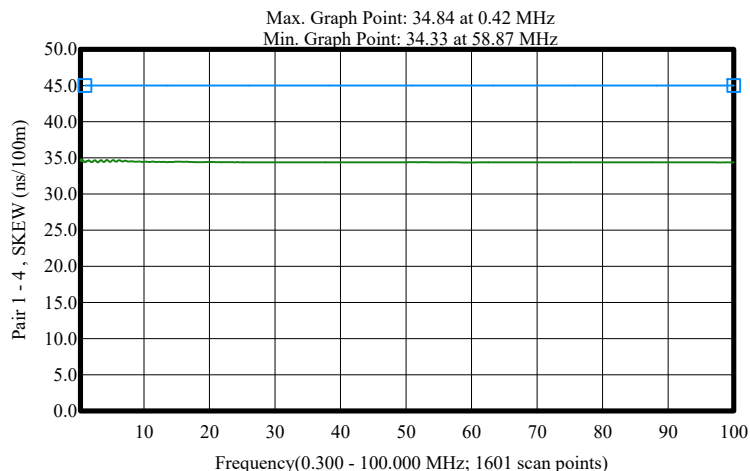
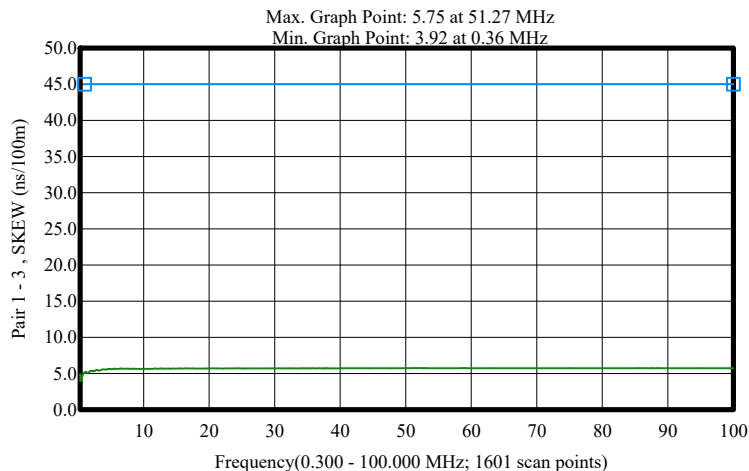
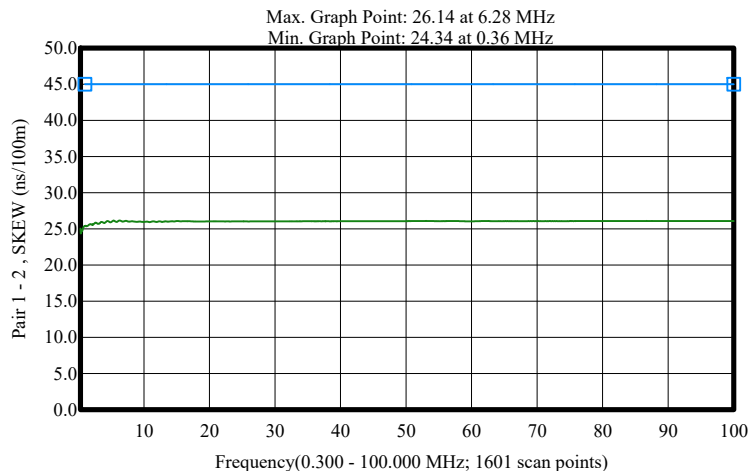
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Summary and Graphic: Propagation Delay Skew (SKEW)

Pair	Spec (Max)(ns/100m)	Measured(ns/100m)	Margin (ns/100m)	@ Frequency (MHz)	Test Result
Pair 1 - 2	45.00	26.14	18.86	6.28	Passed
Pair 1 - 3	45.00	5.75	39.25	51.27	Passed
Pair 1 - 4	45.00	34.71	10.29	4.35	Passed
Pair 2 - 3	45.00	20.52	24.48	5.35	Passed
Pair 2 - 4	45.00	9.18	35.82	1.23	Passed
Pair 3 - 4	45.00	29.53	15.47	1.48	Passed



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