

### DCM Test Report

Cable Type : 4x2x24 x PE/PVC	Factory Number : PHOENIX	Data File Name : DA172606.D3S
Cable I.D. : U/UTP#24X4P CABLE	Order Number : 10124 GY-265 231046674	Specification File : CAT5epc-305M.S3S
Temperature : 25.00 °C	Relative Humidity : 50 %	Test Date/Time : 10/19/2023 10:14:04 PM
Length : 305.00 m	Number of Pairs to Test : 4	Operator : M 231018WE303001/1
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/328.1 ft)@20C	OK
Near End Crosstalk Loss (NEXT)(dB)	OK
Power Sum NEXT(PSNEXT)(dB)	OK

Signature:	Approved:	Date:
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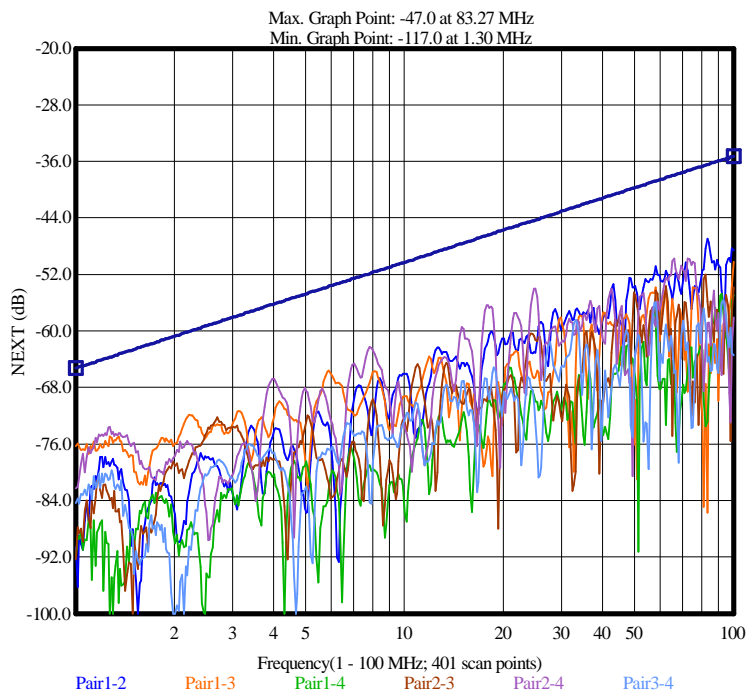
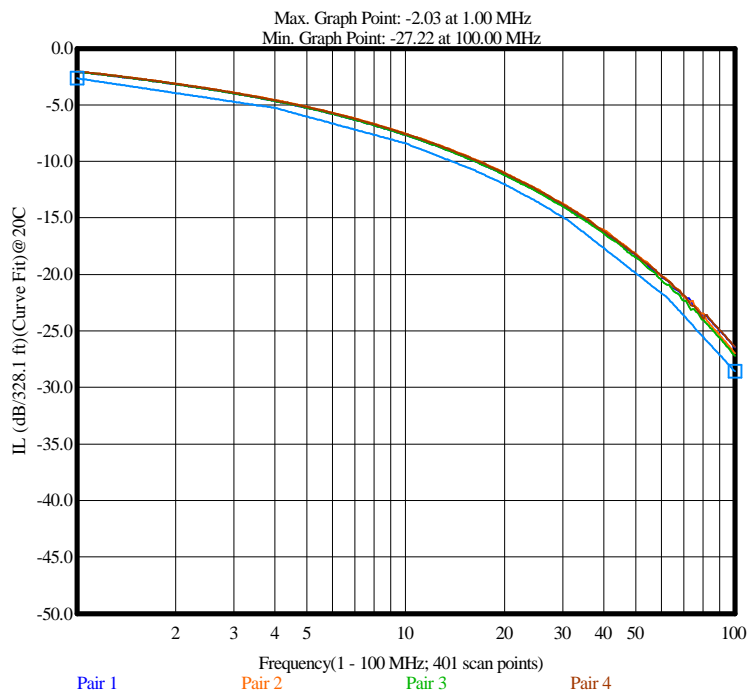
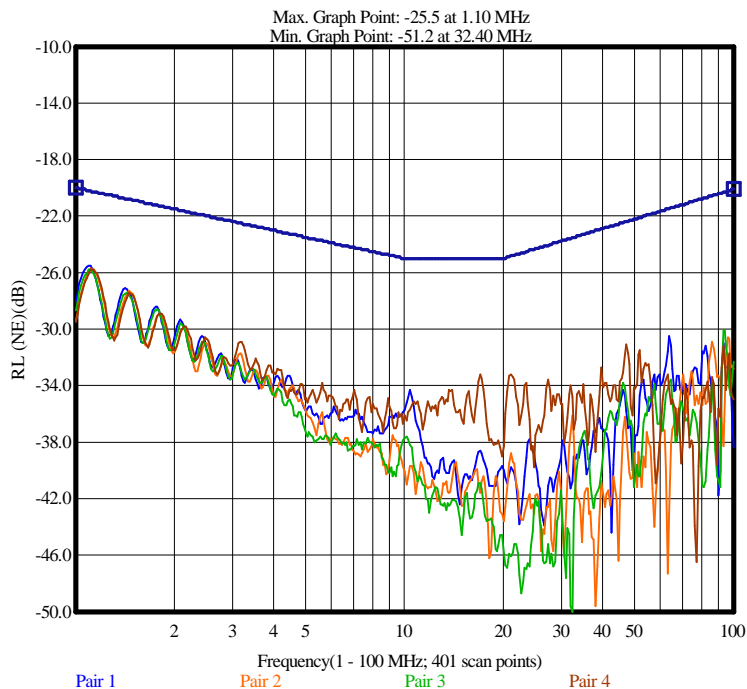
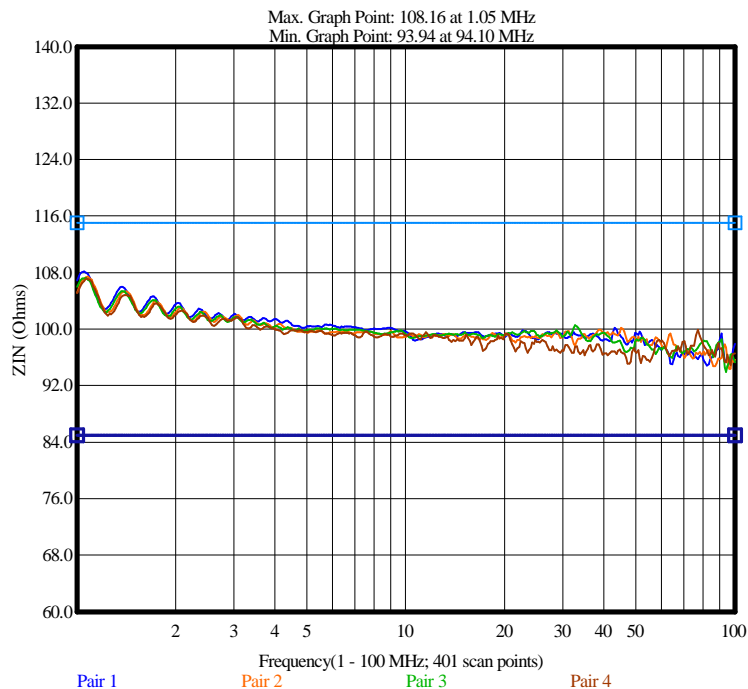
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Cable I.D. : U/UTP#24X4P CABLE	Order Number : 10124 GY-265 231046674	Specification File : CAT5epc-305MS3S
Temperature : 25.00 °C	Relative Humidity : 50 %	Test Date/Time : 10/19/2023 10:14:04 PM
Length : 305.00 m	Number of Pairs to Test : 4	Operator : M 231018WE303001/1
Starting Position : 13		Analyzer Type : ENA

### Worst Case Summary

#### High Frequency

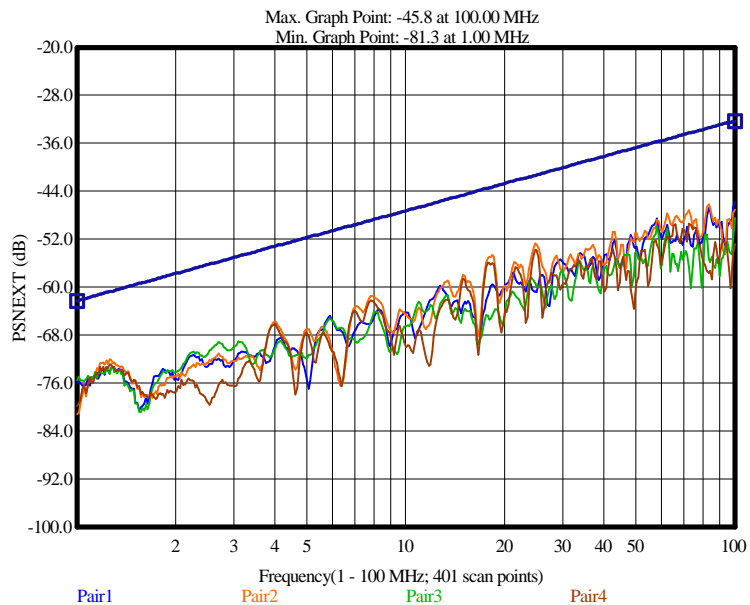
Test Type	Specification	Measured (Pair)	Margin	@ Frequency (MHz)	Test Result
Input Impedance (Zin)(Terminated)	85.00 (Min)	93.94 (Pair 3)	8.94	94.10	Passed
Input Impedance (Zin)(Terminated)	115.00 (Max)	108.16 (Pair 1)	6.84	1.05	Passed
Return Loss (RL)	20.2 (Min)	25.5 (Pair 1)	5.3	1.10	Passed
Insertion Loss (IL)(Curve Fit)@20C	2.65 (Max)	2.07 (Pair 1)	0.58	1.00	Passed
Near End Crosstalk Loss (NEXT)	44.4 (Min)	54.0 (Pairs 2-4)	9.6	24.76	Passed
Power Sum NEXT(PSNEXT)	60.8 (Min)	72.1 (Pair 2)	11.3	1.26	Passed



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

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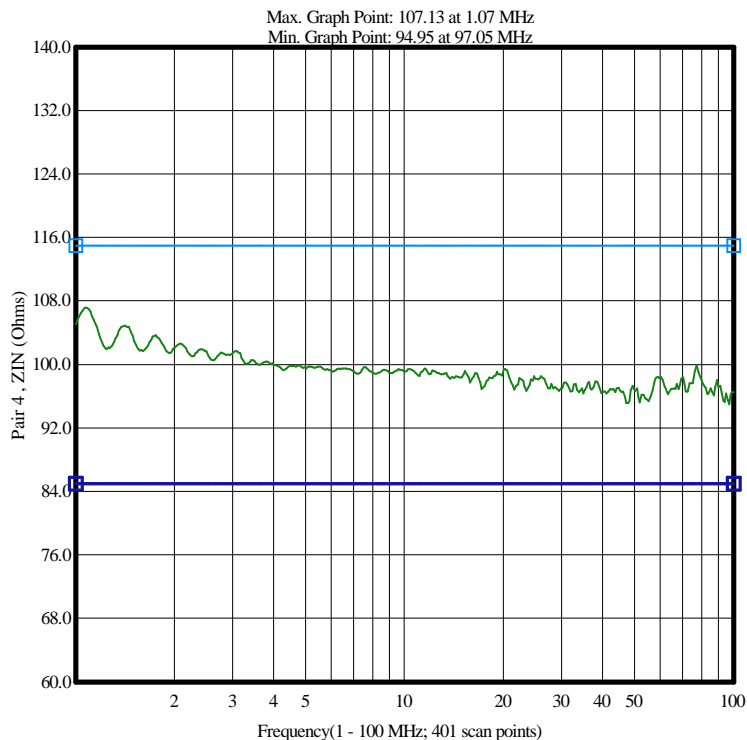
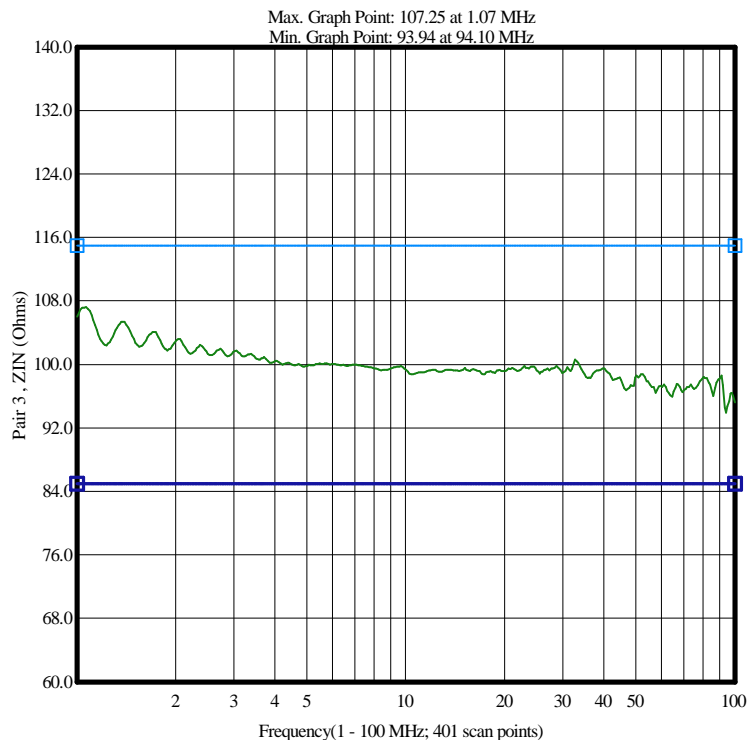
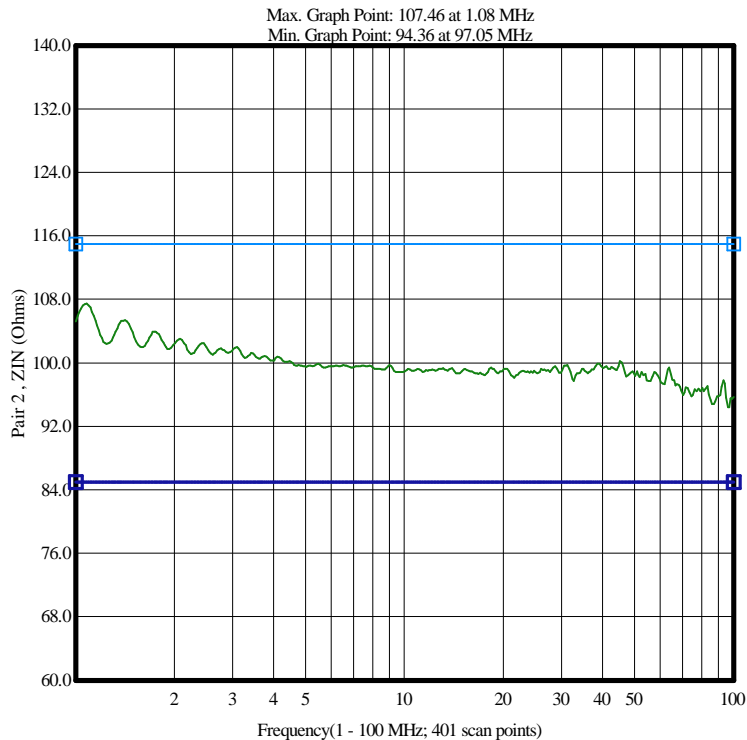
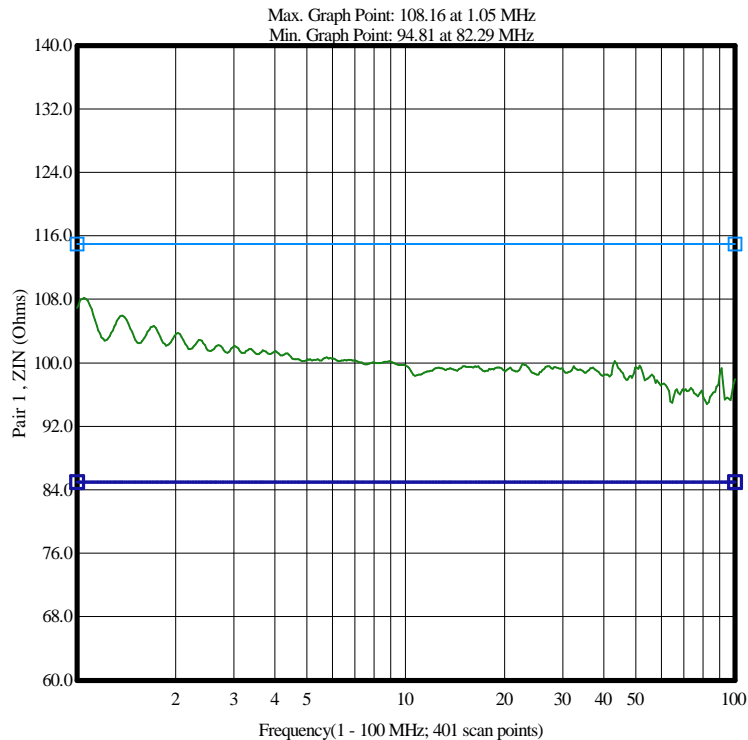
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### Summary and Graphic: Input Impedance (Zin)(Terminated)

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	94.81	108.16	9.81	6.84	82.29	1.05	Passed
Pair 2 [14]	85.00	115.00	94.36	107.46	9.36	7.54	97.05	1.08	Passed
Pair 3 [15]	85.00	115.00	93.94	107.25	8.94	7.75	94.10	1.07	Passed
Pair 4 [16]	85.00	115.00	94.95	107.13	9.95	7.87	97.05	1.07	Passed



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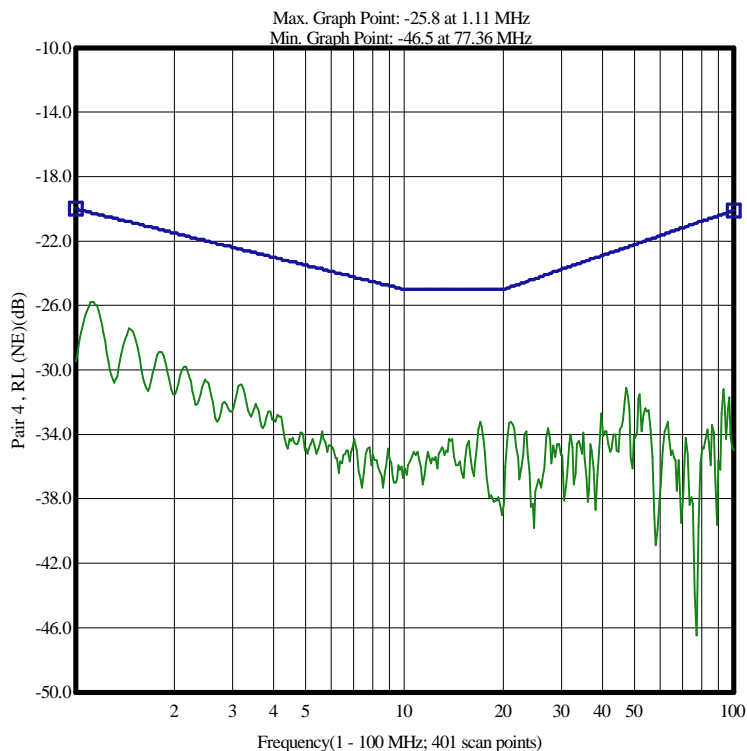
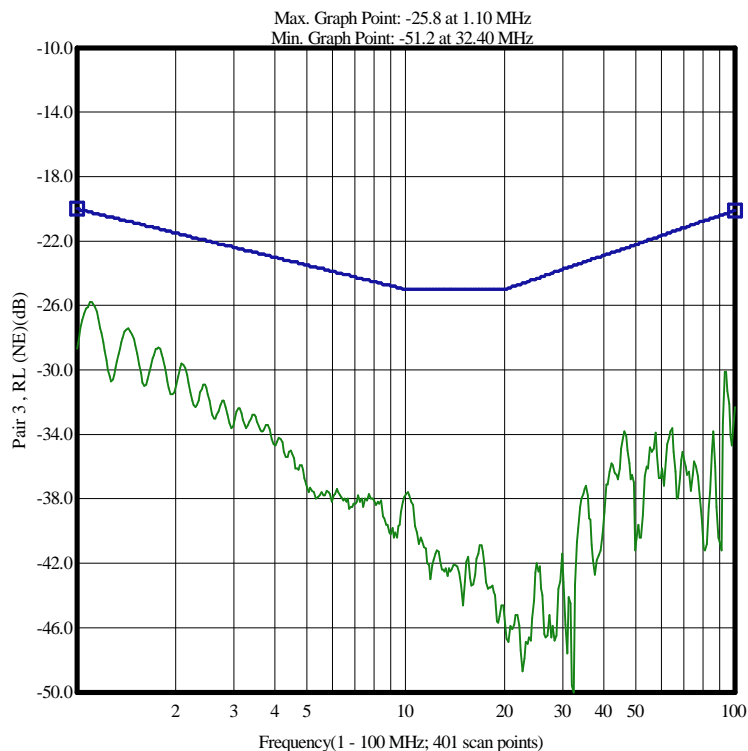
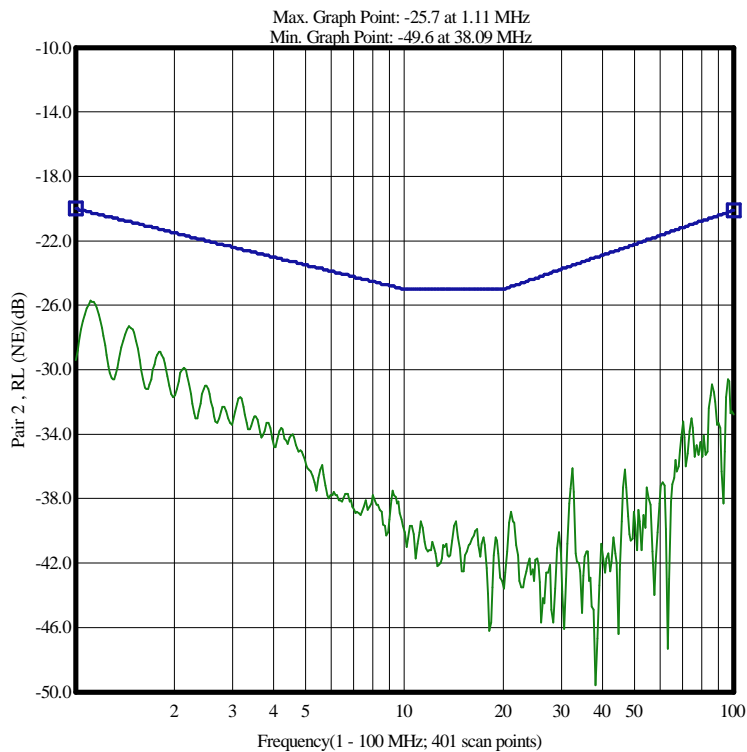
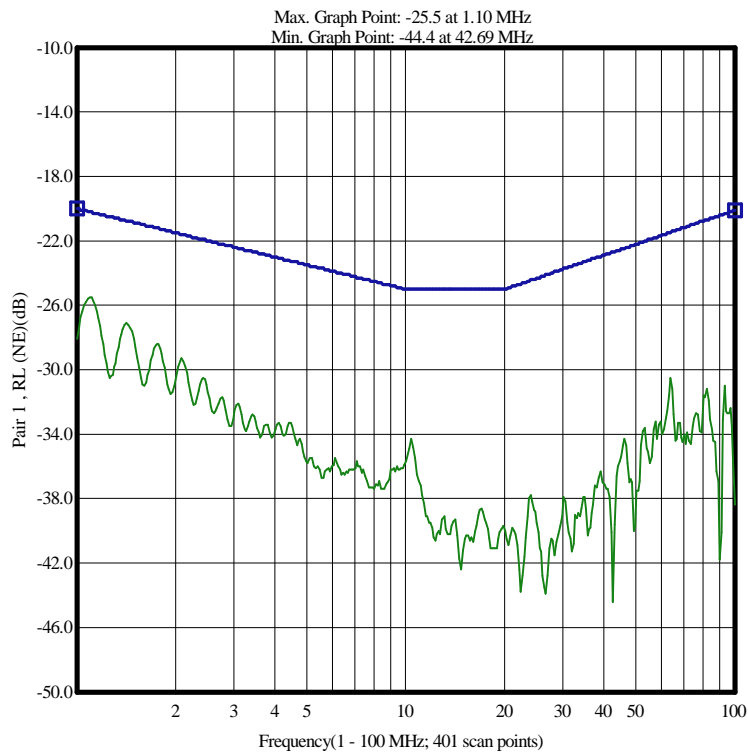
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### Summary and Graphic: Return Loss (RL)

(Cat 5e):  $RL \geq 20 + 5 * \log(f)$ ;  $25$ ;  $25 - 7 * \log(f/20)$ ;

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 [13]	20.2	25.5	5.3	1.10	Passed
Pair 2 [14]	20.2	25.7	5.5	1.11	Passed
Pair 3 [15]	20.2	25.8	5.6	1.10	Passed
Pair 4 [16]	20.3	25.8	5.5	1.12	Passed



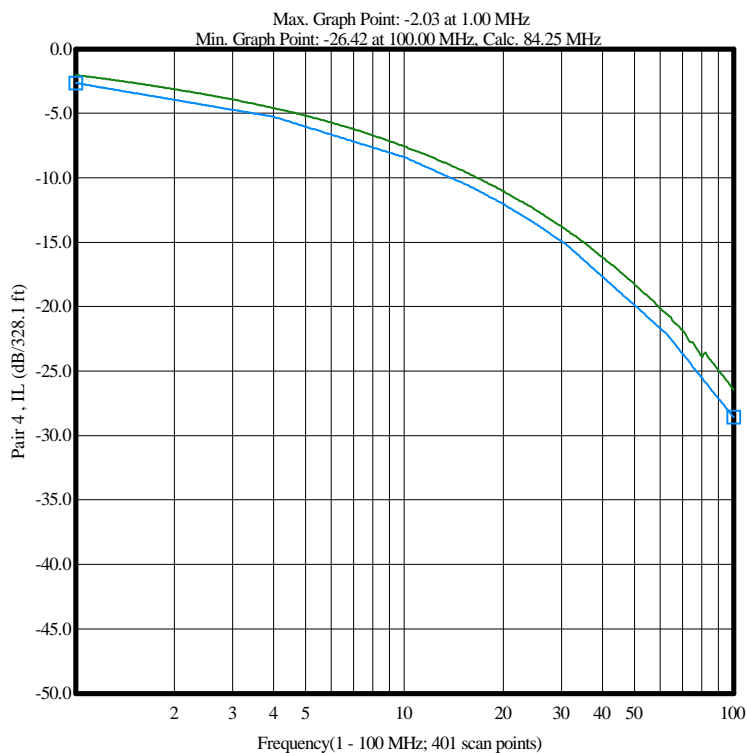
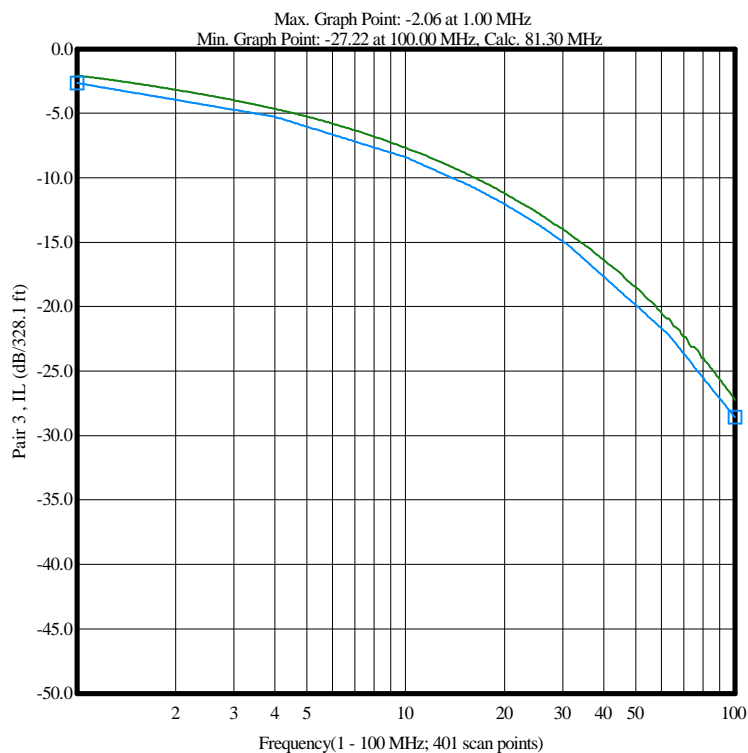
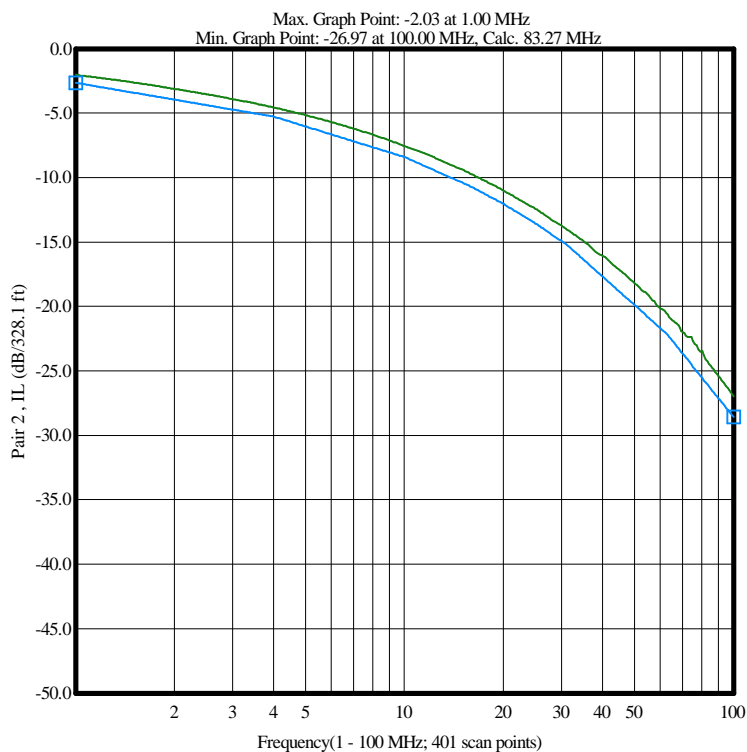
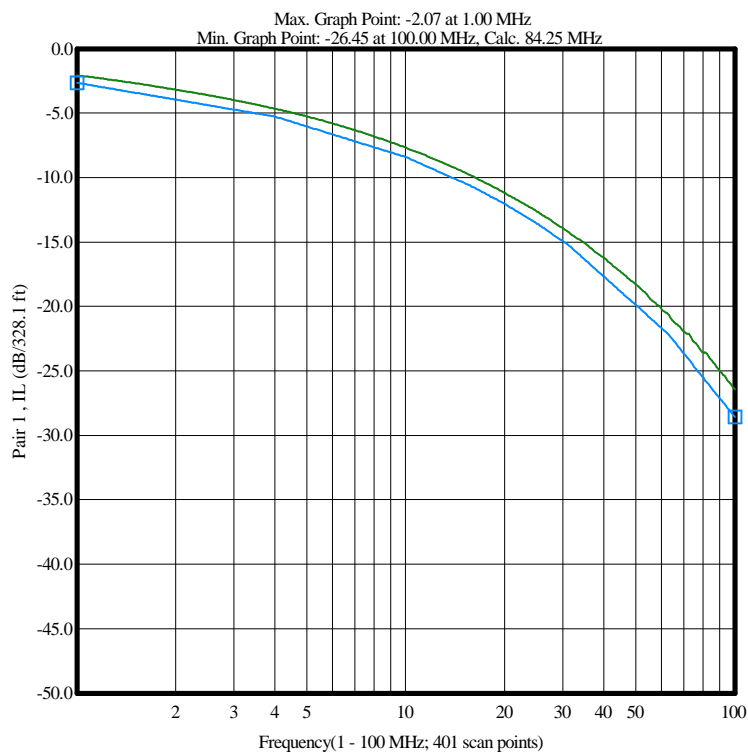
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### Summary and Graphic: Insertion Loss (IL)(Curve Fit)@20C

Pair	Spec (Max)(dB/328.1 ft)	Measured(dB/328.1 ft)	Margin (dB/328.1 ft)	@ Frequency (MHz)	Test Result
Pair 1 [13]	2.65	2.07	0.58	1.00	Passed
Pair 2 [14]	2.65	2.03	0.62	1.00	Passed
Pair 3 [15]	2.65	2.06	0.59	1.00	Passed
Pair 4 [16]	2.65	2.03	0.62	1.00	Passed



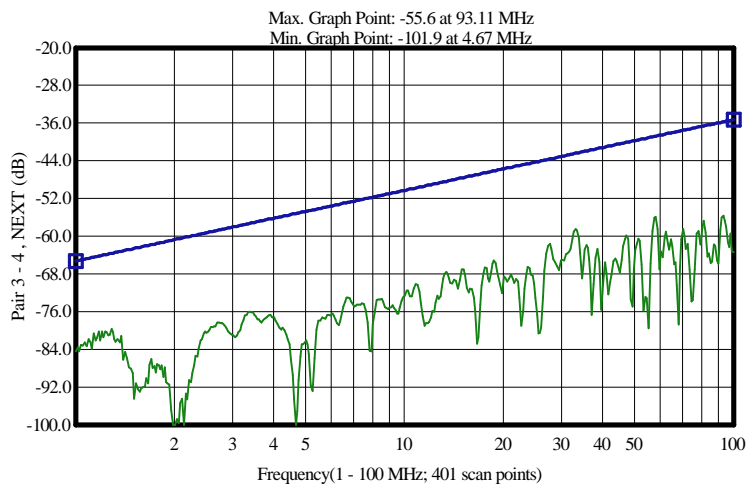
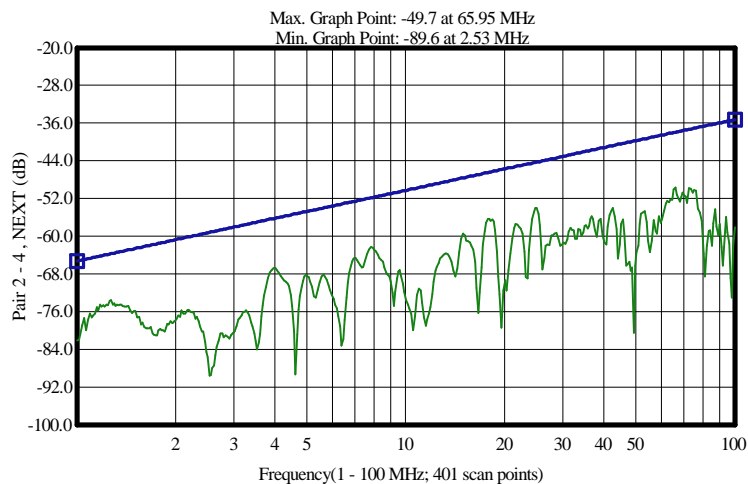
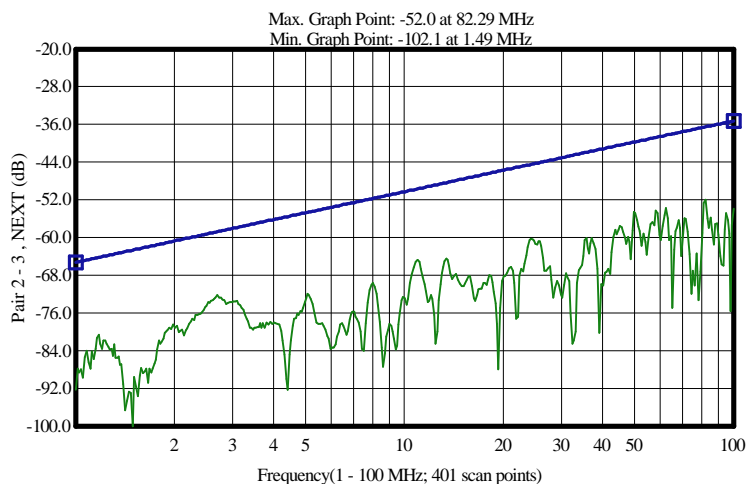
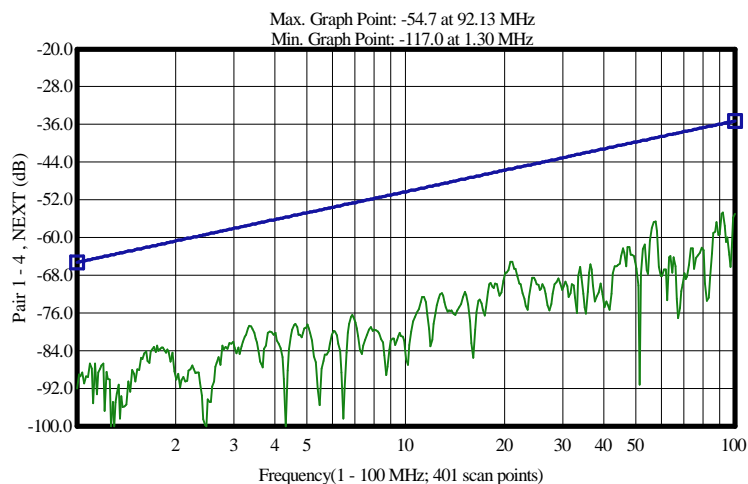
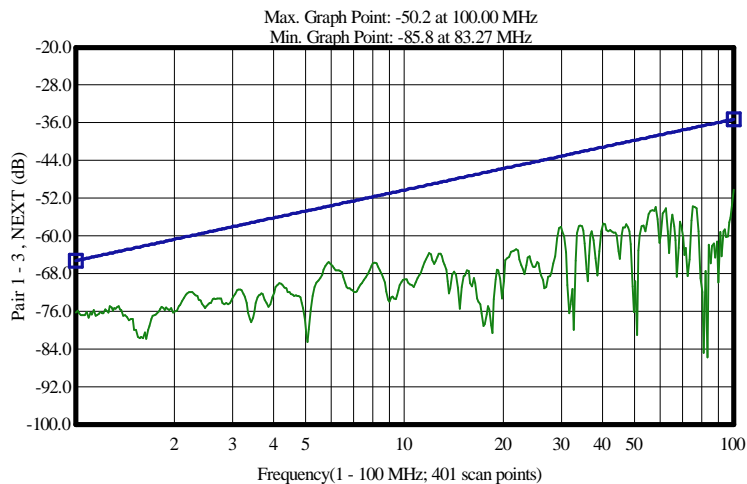
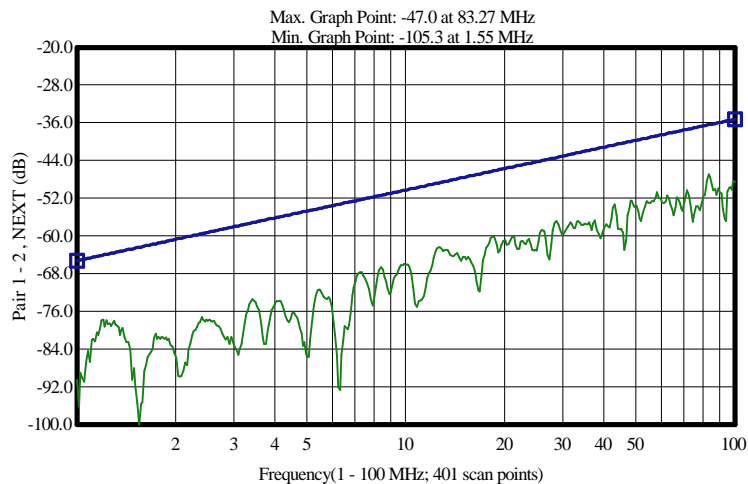
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### Summary and Graphic: Near End Crosstalk Loss (NEXT)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 - 2	36.4	47.0	10.6	83.27	Passed
Pair 1 - 3	65.2	75.9	10.7	1.01	Passed
Pair 1 - 4	38.9	56.7	17.8	56.73	Passed
Pair 2 - 3	58.8	72.2	13.4	2.69	Passed
Pair 2 - 4	44.4	54.0	9.6	24.76	Passed
Pair 3 - 4	63.7	79.7	16.0	1.29	Passed



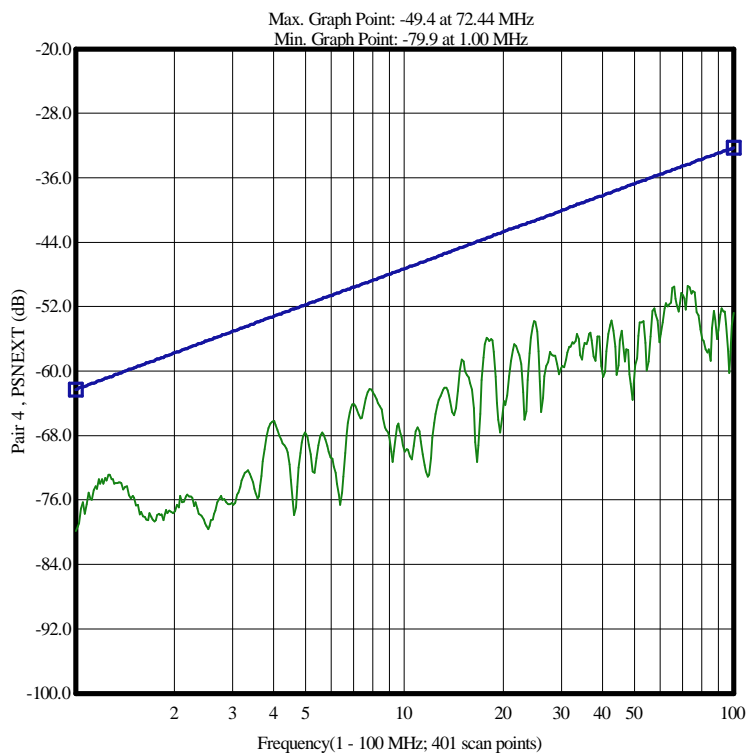
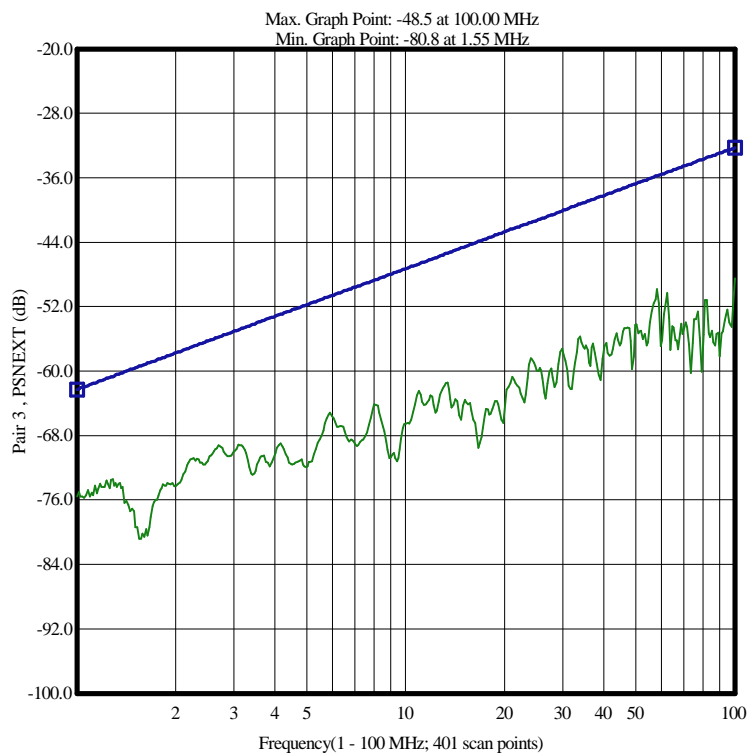
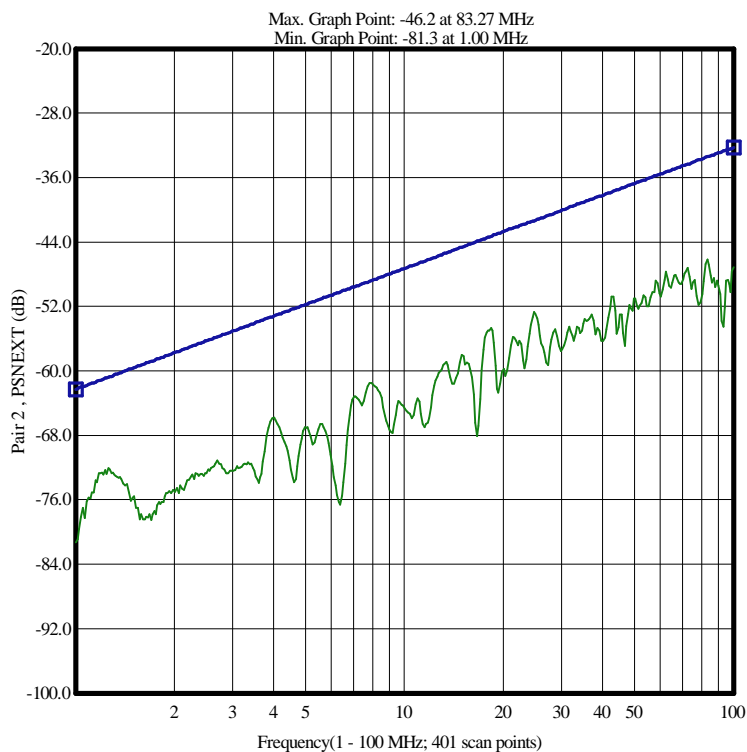
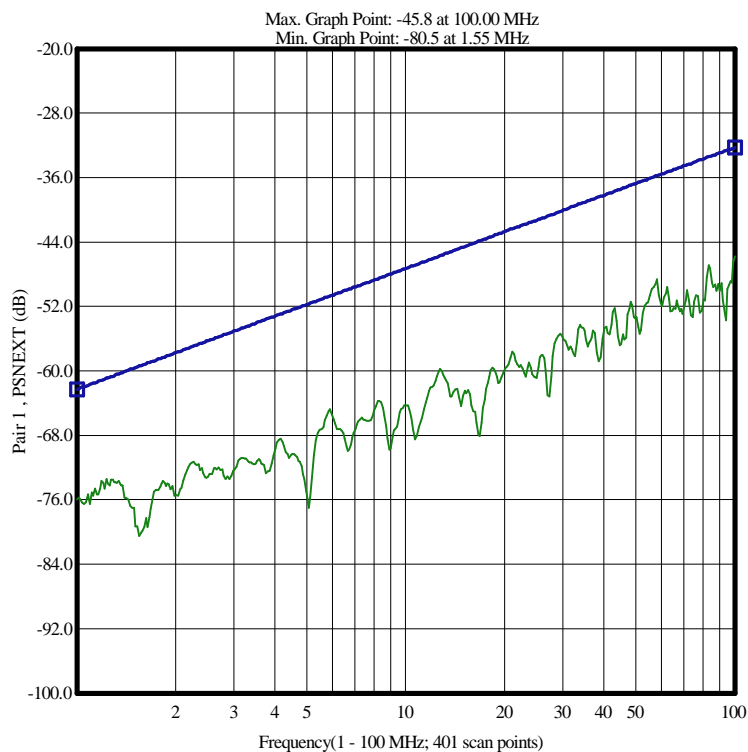
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### Summary and Graphic: Power Sum NEXT(PSNEXT)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 [13]	61.2	73.7	12.5	1.19	Passed
Pair 2 [14]	60.8	72.1	11.3	1.26	Passed
Pair 3 [15]	61.5	74.2	12.7	1.14	Passed
Pair 4 [16]	60.8	72.9	12.1	1.26	Passed



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