

**DCM Test Report**

|                              |                             |  |
|------------------------------|-----------------------------|--|
| Cable Type : 4x2x24 x FEP    | Factory Number :            | Data File Name : DA048647.XLD                  |
| Cable I.D. : FTP#24X4P CABLE | Order Number :              | Specification File : FTP SLOT CAT6E-400Mhz.LDS |
| Temperature : 28.00 [F]      | Operator : WEI              | Test Date : 04/21/2010                         |
| Length : 305.00 m            | Number of Pairs to Test : 4 | Test Time : 10:50:15 PM                        |
| Starting Position : 6        |                             |  |

**Pass - Fail Test Certificate - 4 Pairs**

**High Frequency**

| Test Type   | Test Result |
|---|-------------|
| <b>Input Impedance (Zin)(Ohms)(Open/Short)</b>        | <b>OK</b>   |
| <b>Return Loss (RL)(dB)</b>                           | <b>OK</b>   |
| <b>Insertion Loss (IL)(Curve Fit)(dB/100.0 m)@20C</b> | <b>OK</b>   |
| <b>Near End Crosstalk Loss (NEXT)(dB)</b>             | <b>OK</b>   |
| <b>Power Sum NEXT(PSNEXT)(dB)</b>                     | <b>OK</b>   |
| <b>ATT to NEXT Ratio (ACR)(dB/100.0 m)</b>            | <b>OK</b>   |
| <b>Power Sum ACR (PS ACR)(dB/100.0 m)</b>             | <b>OK</b>   |

**Low Frequency**

| Test Type  | Test Result |
|--|-------------|
| <b>Conductor Resistance(Ohms/100.0 m)@20C</b>      | <b>OK</b>   |
| <b>Resistance Unbalance( % )@20C</b>               | <b>OK</b>   |
| <b>Cap. Unbalance to Ground(pF/0.0 m)@1000Hz</b>   | <b>OK</b>   |
| <b>Cap. Unbalance to Shield(pF/100.0 m)@1000Hz</b> | <b>OK</b>   |

|            |           |       |
|------------|-----------|-------|
| Signature: | Approved: | Date: |
|------------|-----------|-------|

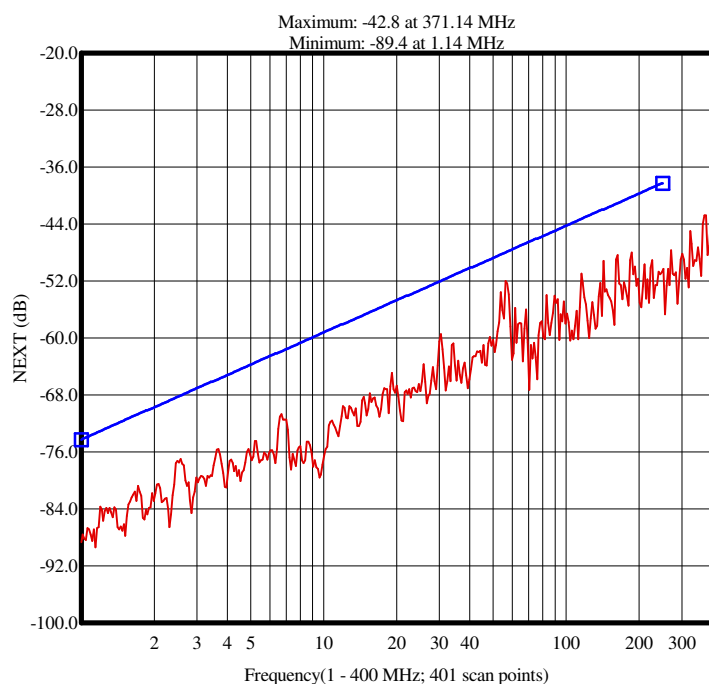
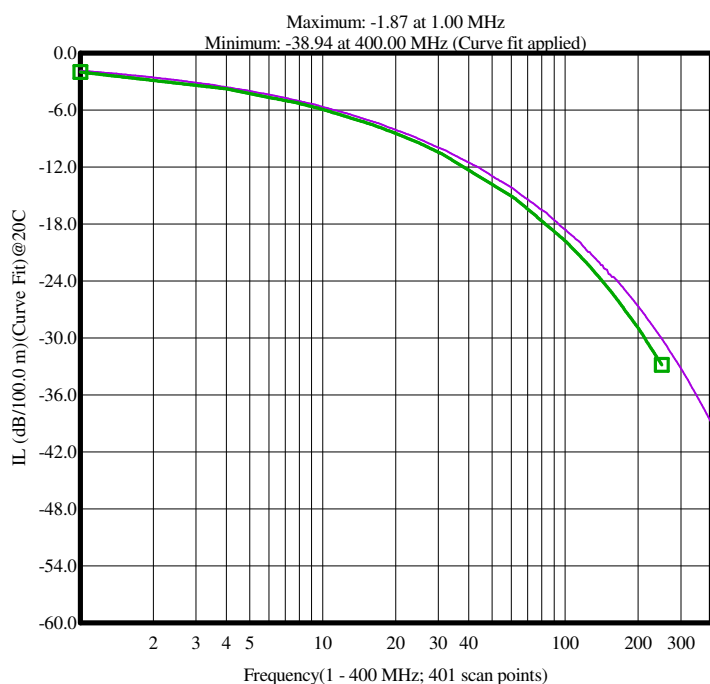
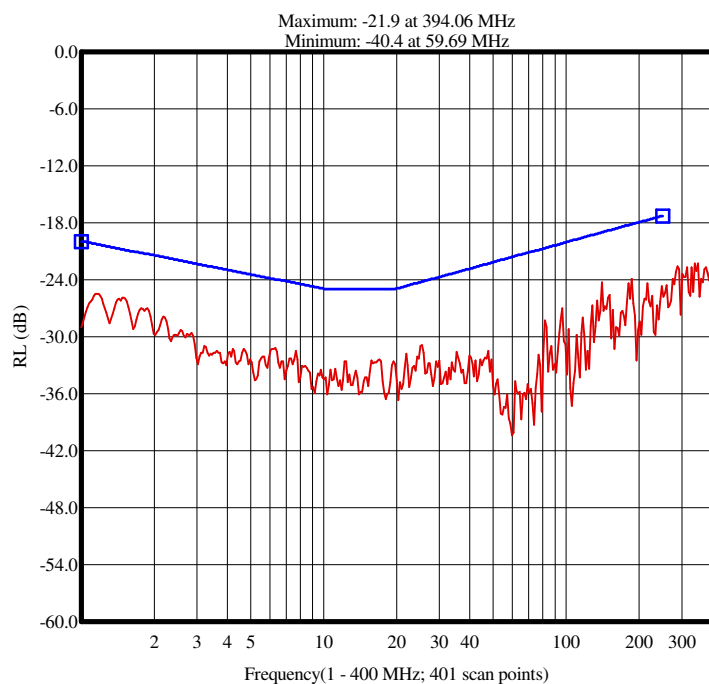
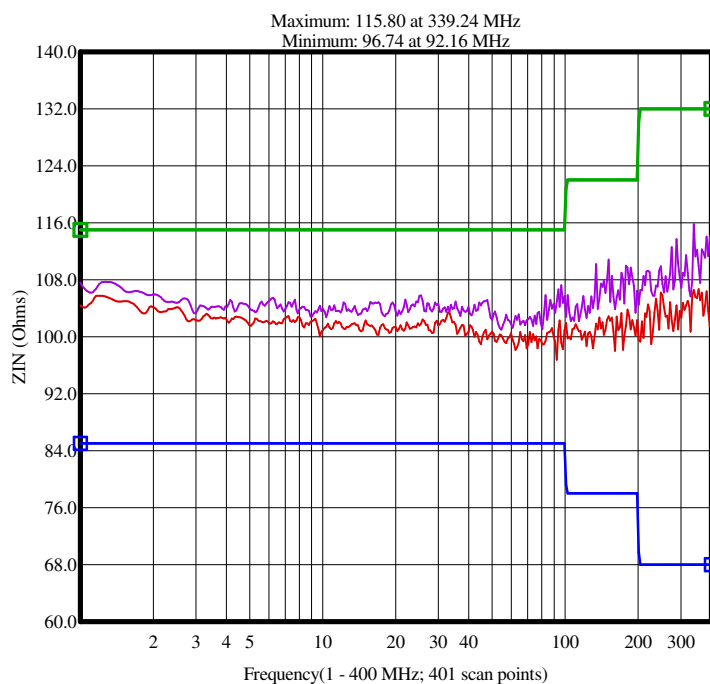
### DCM Test Report

|                              |                             |  |
|------------------------------|-----------------------------|--|
| Cable Type : 4x2x24 x FEP    | Factory Number :            | Data File Name : DA048647.XLD                  |
| Cable I.D. : FTP#24X4P CABLE | Order Number :              | Specification File : FTP SLOT CAT6E-400Mhz.LDS |
| Temperature : 28.00 卨        | Operator : WEI              | Test Date : 04/21/2010                         |
| Length : 305.00 m            | Number of Pairs to Test : 4 | Test Time : 10:50:15 PM                        |
| Starting Position : 6        |                             |  |

### Worst Case Summary

#### High Frequency

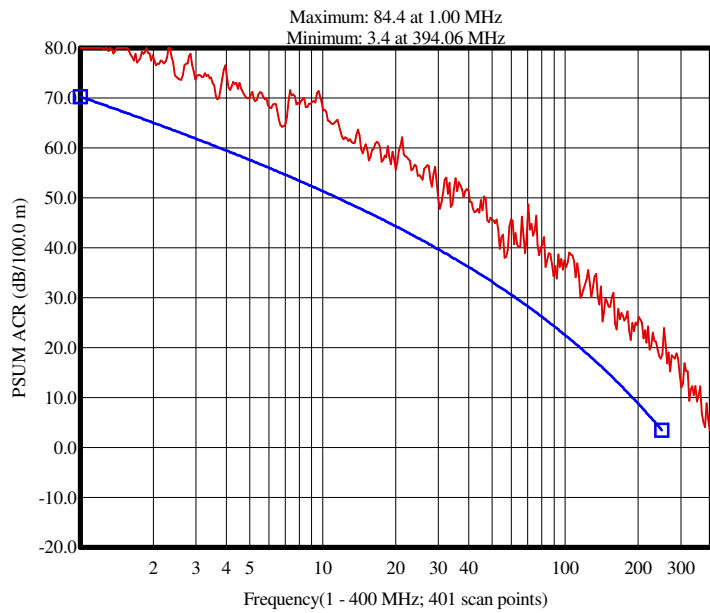
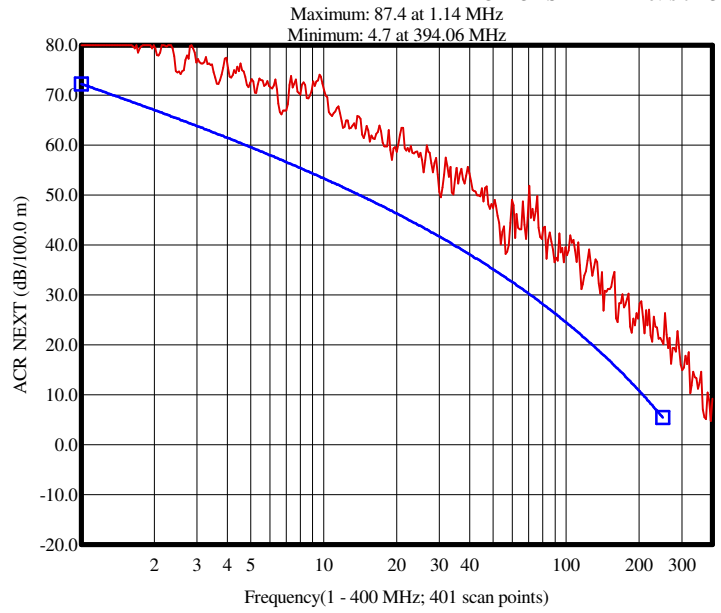
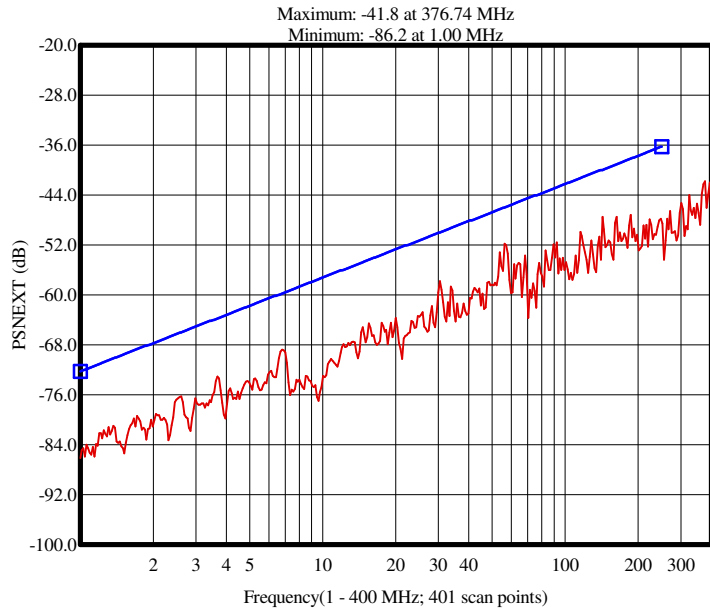
| Test Type                          | Specification | Measured (Pair)  | Margin | @ Frequency (MHz) | Test Result |
|------------------------------------|---------------|------------------|--------|-------------------|-------------|
| Input Impedance (Zin)(Open/Short)  | 85.00 (Min)   | 96.74 (Pair 1)   | 11.74  | 92.16             | Passed      |
| Input Impedance (Zin)(Open/Short)  | 115.00 (Max)  | 107.69 (Pair 4)  | 7.31   | 1.27              | Passed      |
| Return Loss (RL)                   | 20.8 (Min)    | 25.9 (Pair 4)    | 5.1    | 1.48              | Passed      |
| Insertion Loss (IL)(Curve Fit)@20C | 2.02 (Max)    | 1.87 (Pair 1)    | 0.15   | 1.00              | Passed      |
| Near End Crosstalk Loss (NEXT)     | 48.0 (Min)    | 52.0 (Pairs 2-4) | 4.0    | 56.22             | Passed      |
| Power Sum NEXT(PSNEXT)             | 46.0 (Min)    | 51.8 (Pair 2)    | 5.8    | 56.22             | Passed      |
| ATT to NEXT Ratio (ACR)            | 33.5 (Min)    | 38.2 (Pairs 2-4) | 4.7    | 56.22             | Passed      |
| Power Sum ACR (PS ACR)             | 31.5 (Min)    | 38.0 (Pair 2)    | 6.5    | 56.22             | Passed      |



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

\* = Measured value out of spec.  
xxx = No entry.

\*\*\* = Measured value is invalid.



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**Worst Case Summary**

**Low Frequency**

| Statistical Parameter                       | Maximum    |          | Minimum    |          | Average Maximum |          | Standard Deviation |          | Result |
|---|------------|----------|------------|----------|-----------------|----------|--------------------|----------|--------|
|   | Spec Limit | Measured | Spec Limit | Measured | Spec Limit      | Measured | Spec Limit         | Measured |        |
| Conductor Resistance(Ohms/100.0 m)@20C      | 9.38       | 7.86     | xxx        | 7.47     | xxx             | 7.66     | xxx                | 0.158    | Passed |
| Resistance Unbalance( % )                   | 5.00       | 0.57     | xxx        | 0.10     | xxx             | 0.38     | xxx                | 0.172    | Passed |
| Cap. Unbalance to Ground(pF/0.0 m)@1000Hz   | 330.00     | 0.00     | xxx        | 0.00     | xxx             | 0.00     | xxx                | 1.000    | Passed |
| Cap. Unbalance to Shield(pF/100.0 m)@1000Hz | 330.00     | 0.83     | xxx        | 0.64     | xxx             | 0.75     | xxx                | 0.068    | Passed |

**Detail: Resistance/Capacitance Measurement -Normalized**

| Test Types | Conductor Resistance Ra @20C | Conductor Resistance Rb @20C | Resistance Unbalance | Capacitance Unbalance to Ground @1000 Hz | Capacitance Unbalance to Shield @1000 Hz | Test Result |
|------------|------------------------------|------------------------------|----------------------|--|--|-------------|
| Unit       | Ohms/100.0 m                 | Ohms/100.0 m                 | %                    | pF/0.0 m                                 | pF/100.0 m                               |             |
| Max Spec   | 9.38                         | 9.38                         | 5.00                 | 330.00                                   | 330.00                                   |             |
| Min Spec   | xxx                          | xxx                          | xxx                  | xxx                                      | xxx                                      |             |
| Pair 1 [6] | 7.86                         | 7.83                         | 0.37                 | 0.00                                     | 0.76                                     | Passed      |
| Pair 2 [7] | 7.50                         | 7.51                         | 0.10                 | 0.00                                     | 0.75                                     | Passed      |
| Pair 3 [8] | 7.80                         | 7.76                         | 0.46                 | 0.00                                     | 0.83                                     | Passed      |
| Pair 4 [9] | 7.51                         | 7.47                         | 0.57                 | 0.00                                     | 0.64                                     | Passed      |

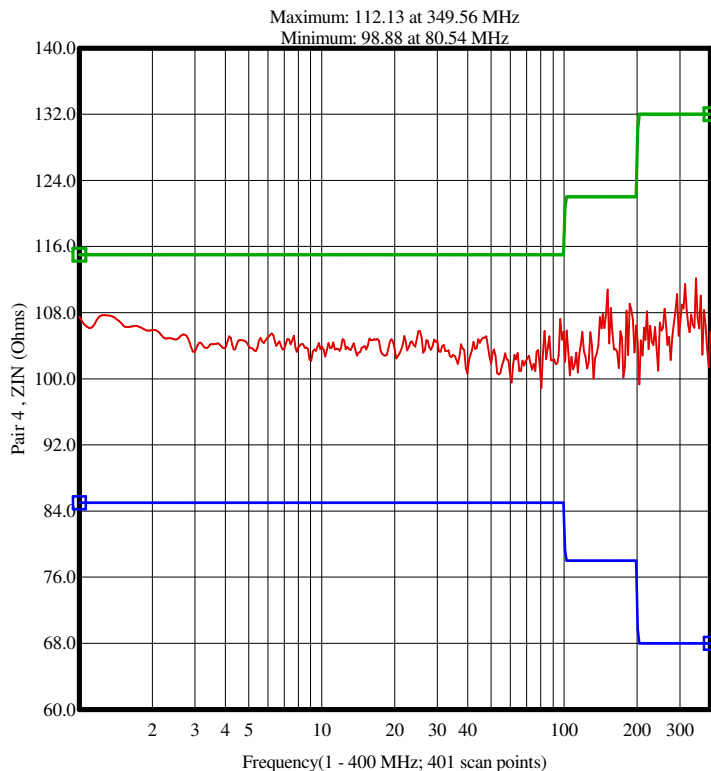
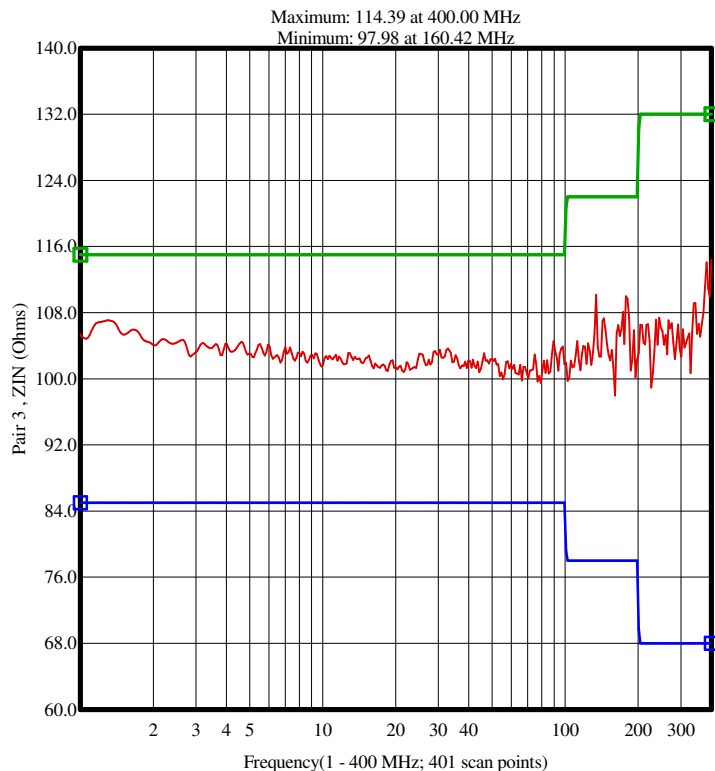
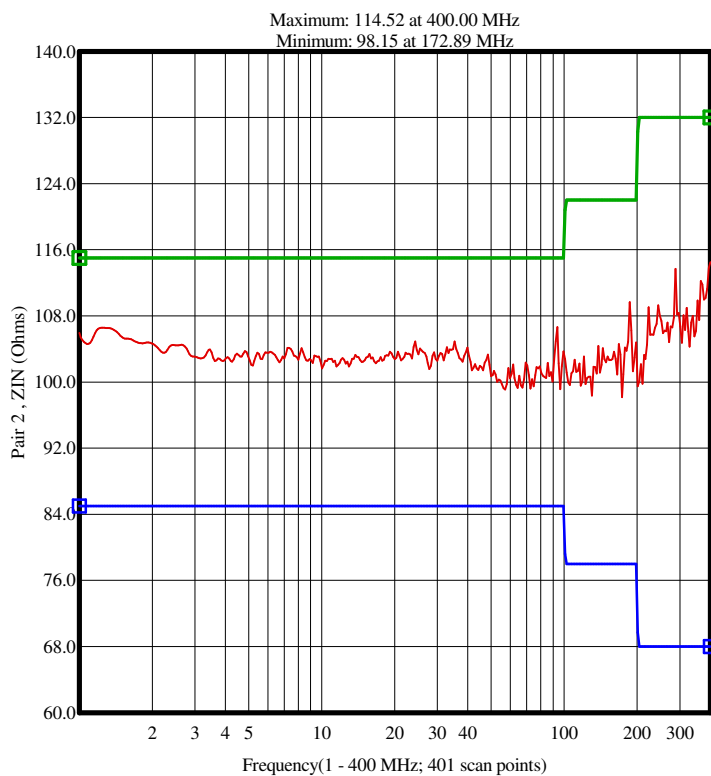
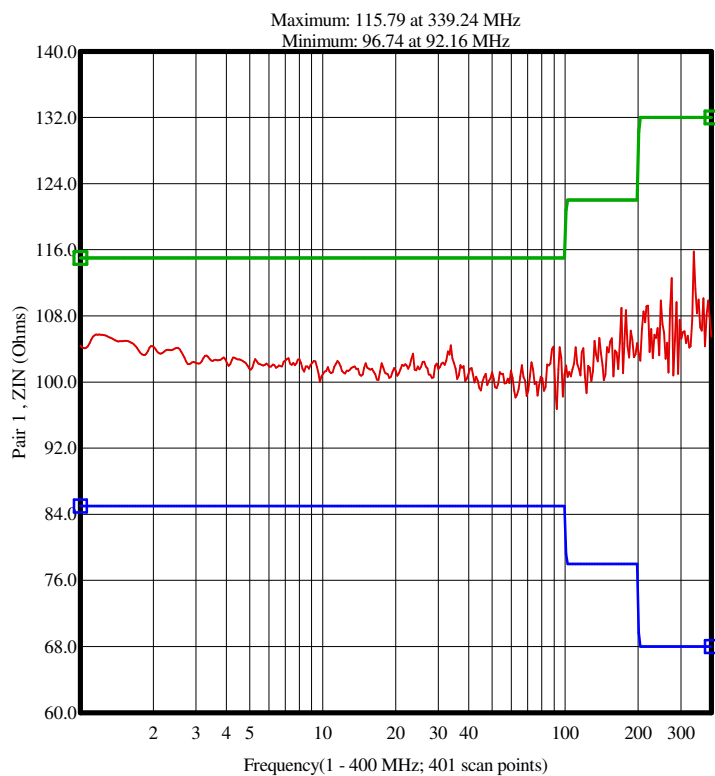
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### Summary and Graphic: Input Impedance (Zin)(Open/Short)

| Pair [Position] | Specification |         | Measured(Ohms) |         | Margin (Ohms) |         | @ Frequency (MHz) |         | Test Result |
|-----------------|---------------|---------|----------------|---------|---------------|---------|-------------------|---------|-------------|
|                 | Minimum       | Maximum | Minimum        | Maximum | Minimum       | Maximum | Minimum           | Maximum |             |
| Pair 1 [6]      | 85.00         | 115.00  | 96.74          | 105.74  | 11.74         | 9.26    | 92.16             | 1.16    | Passed      |
| Pair 2 [7]      | 85.00         | 115.00  | 99.09          | 106.64  | 14.09         | 8.36    | 57.07             | 93.55   | Passed      |
| Pair 3 [8]      | 85.00         | 115.00  | 99.50          | 107.08  | 14.50         | 7.92    | 79.34             | 1.29    | Passed      |
| Pair 4 [9]      | 85.00         | 115.00  | 98.88          | 107.69  | 13.88         | 7.31    | 80.54             | 1.27    | Passed      |



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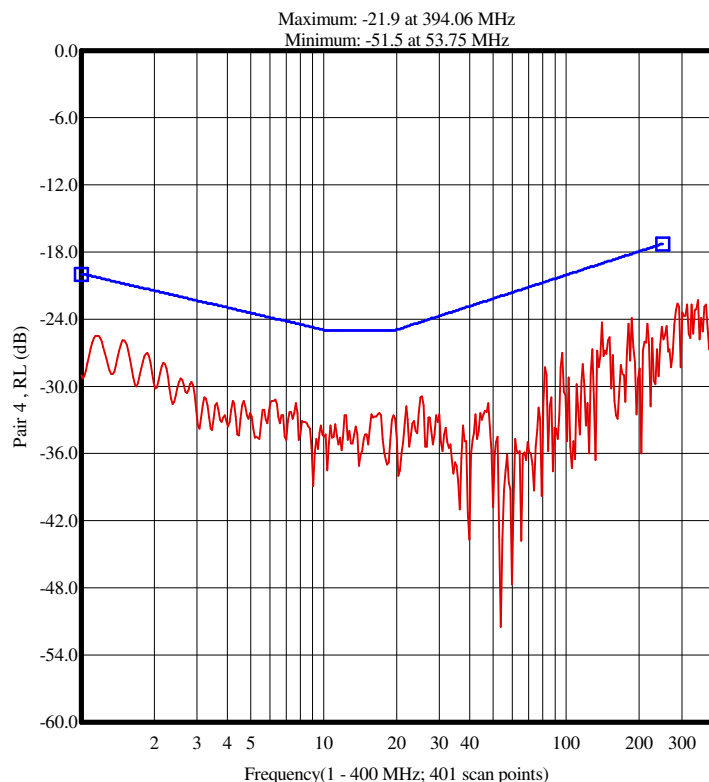
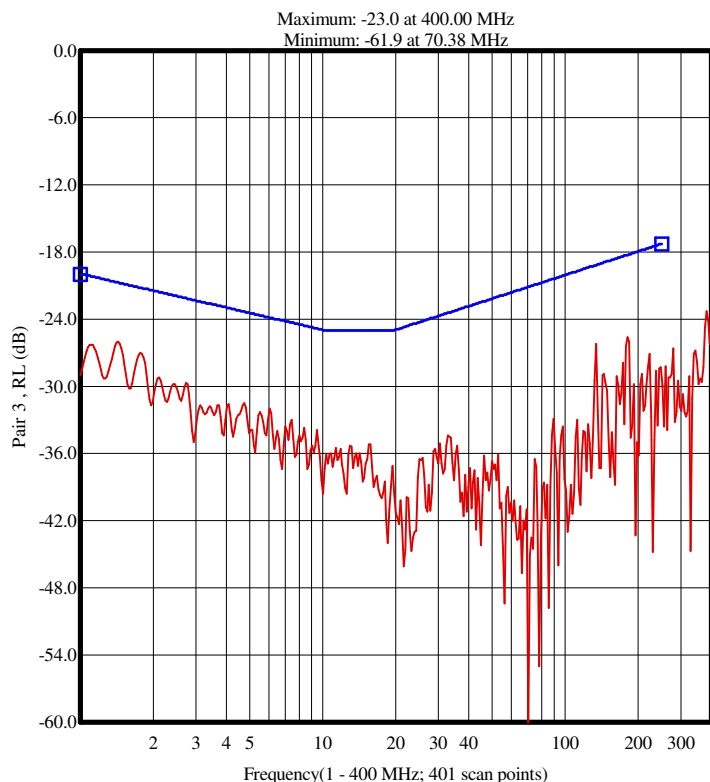
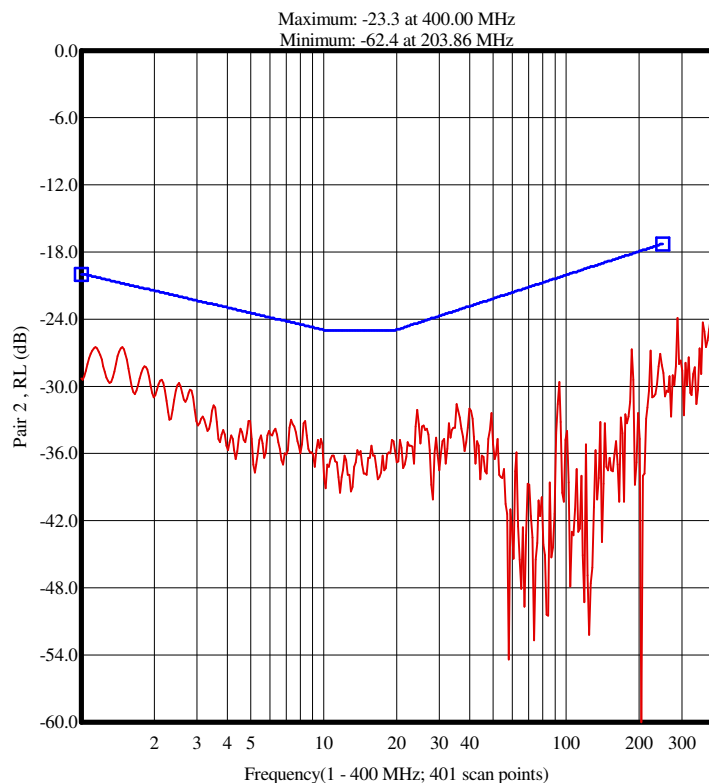
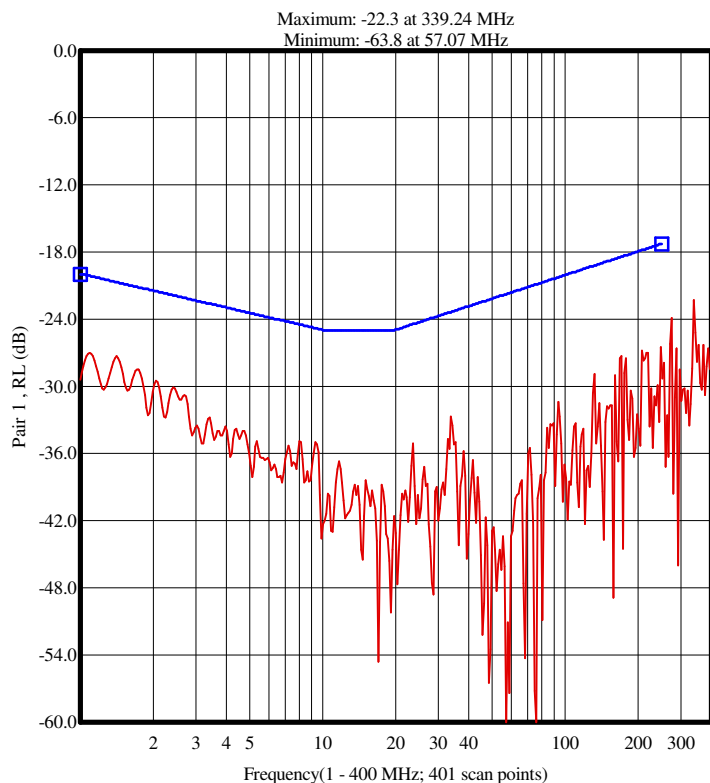
\* = Measured value out of spec.  
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### Summary and Graphic: Return Loss (RL)

(Formula): $RL \geq 20.0 + 5.0 * \text{Log}(f)$ ; 25.0; 25.0-7.0\* $\text{Log}(f/20.0)$  (Refer to manual)

| Pair [Position] | Spec (Min)(dB) | Measured(dB) | Margin (dB) | @ Frequency (MHz) | Test Result |
|-----------------|----------------|--------------|-------------|-------------------|-------------|
| Pair 1 [6]      | 20.7           | 27.3         | 6.6         | 1.41              | Passed      |
| Pair 2 [7]      | 20.8           | 26.5         | 5.7         | 1.48              | Passed      |
| Pair 3 [8]      | 20.7           | 26.0         | 5.3         | 1.43              | Passed      |
| Pair 4 [9]      | 20.8           | 25.9         | 5.1         | 1.48              | Passed      |



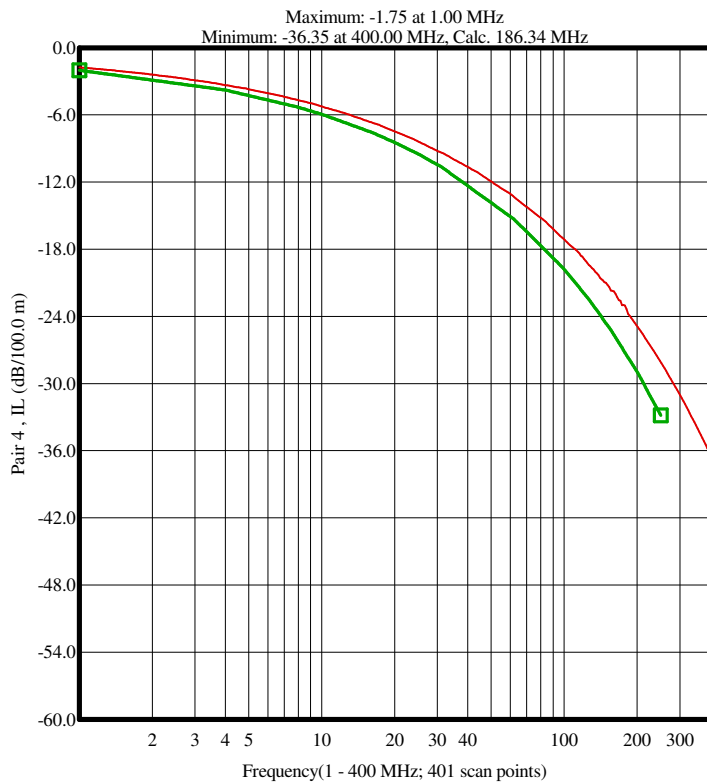
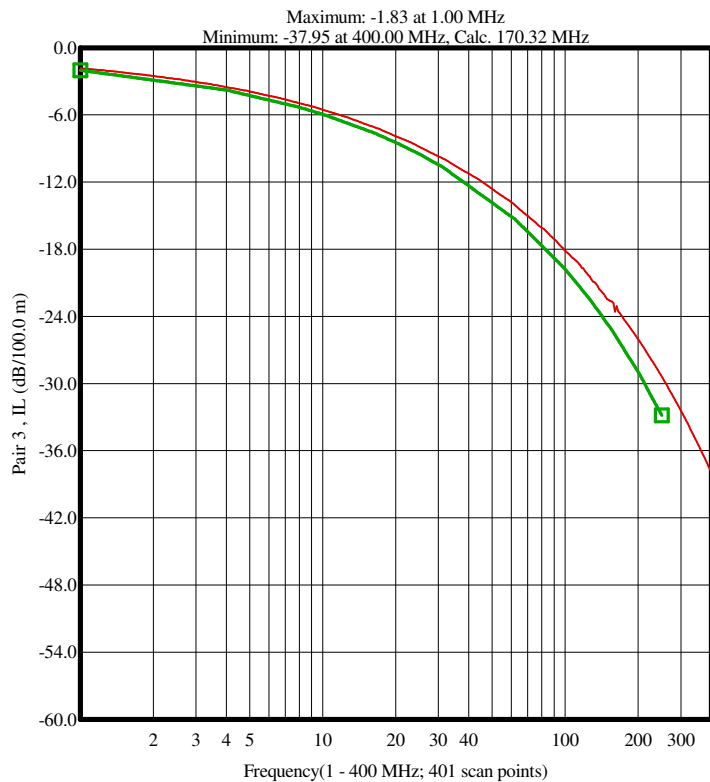
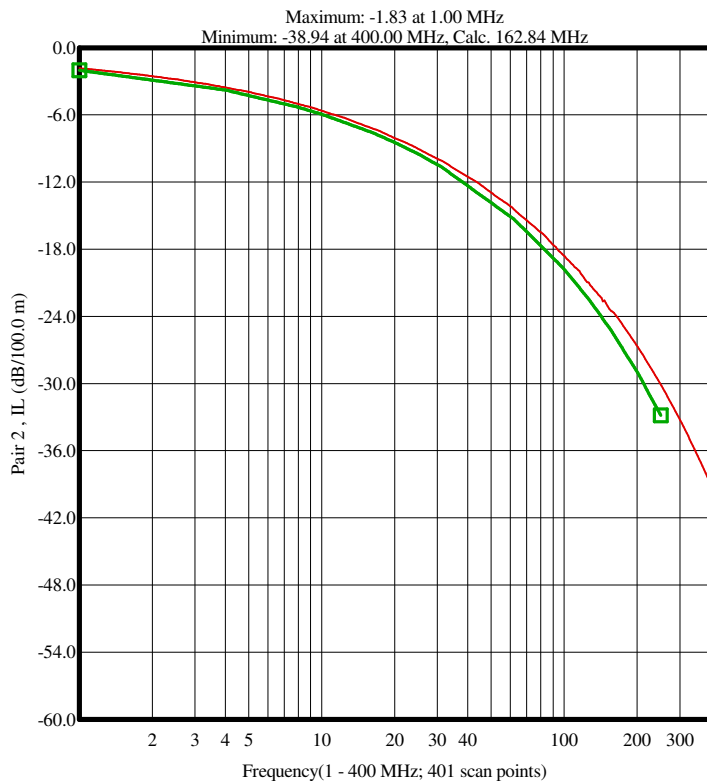
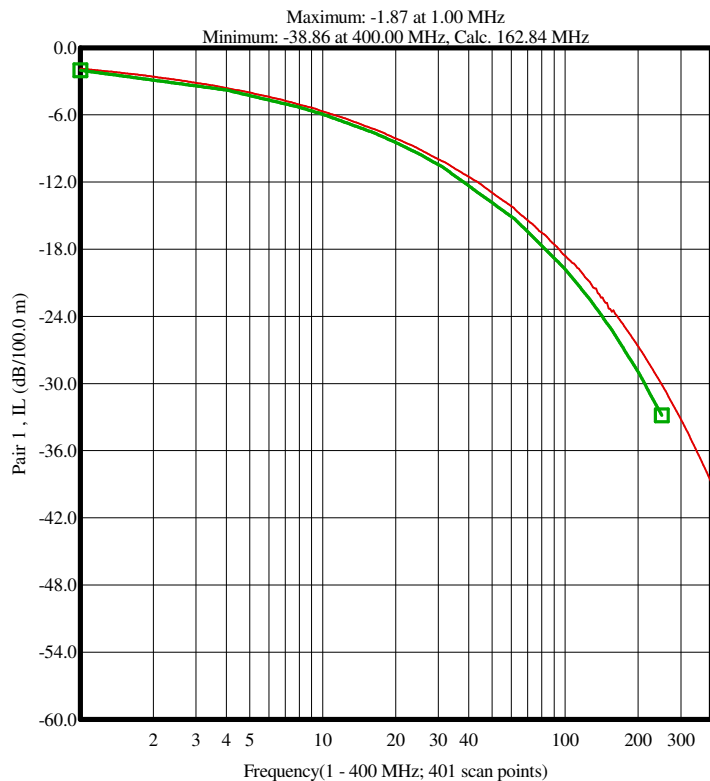
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Summary and Graphic: Insertion Loss (IL)(Curve Fit)@20C

| Pair [Position] | Spec (Max)(dB/100.0 m) | Measured(dB/100.0 m) | Margin (dB/100.0 m) | @ Frequency (MHz) | Test Result |
|-----------------|------------------------|----------------------|---------------------|-------------------|-------------|
| Pair 1 [6]      | 2.02                   | 1.87                 | 0.15                | 1.00              | Passed      |
| Pair 2 [7]      | 2.02                   | 1.83                 | 0.19                | 1.00              | Passed      |
| Pair 3 [8]      | 2.02                   | 1.83                 | 0.19                | 1.00              | Passed      |
| Pair 4 [9]      | 2.02                   | 1.75                 | 0.27                | 1.00              | Passed      |



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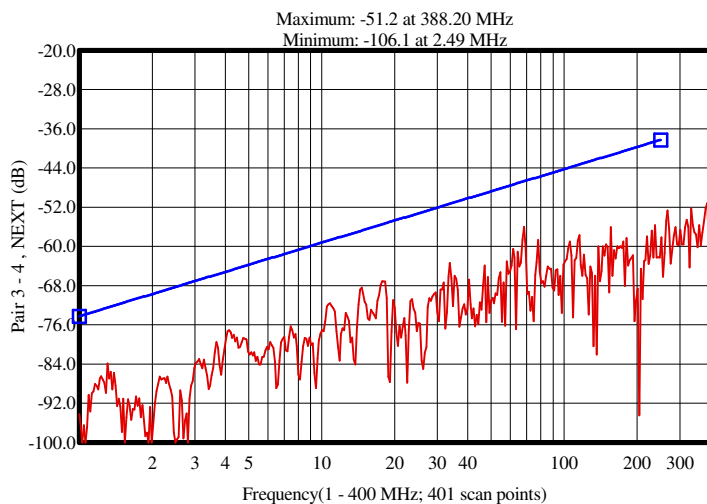
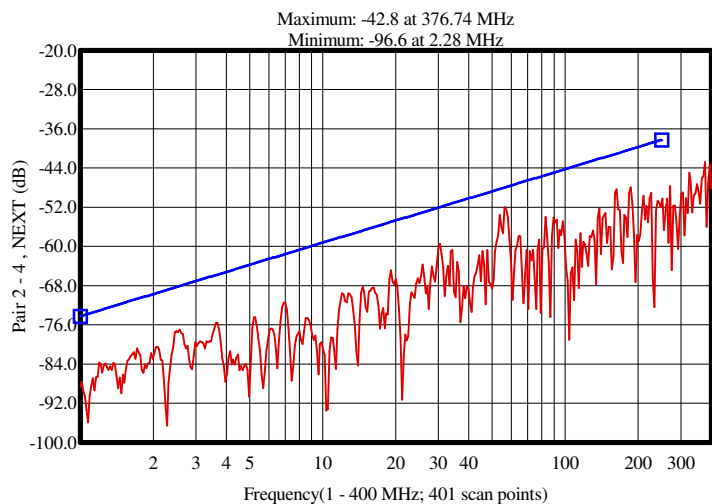
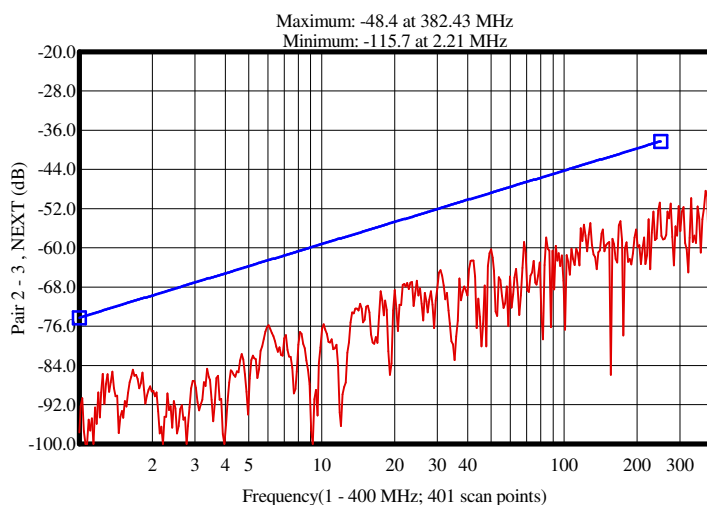
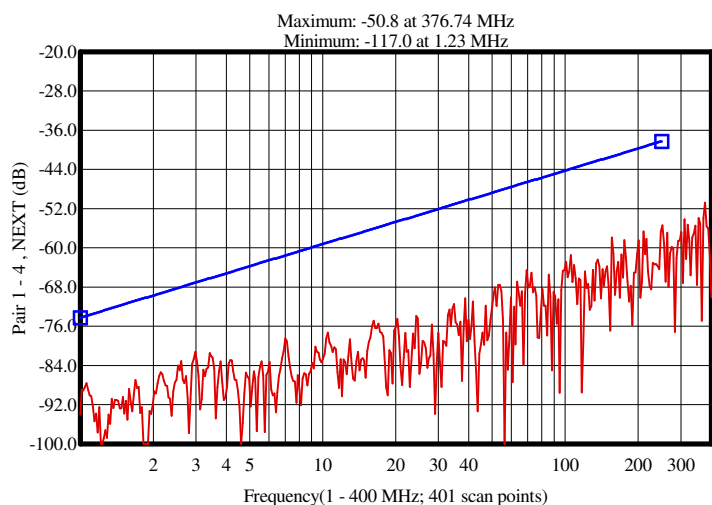
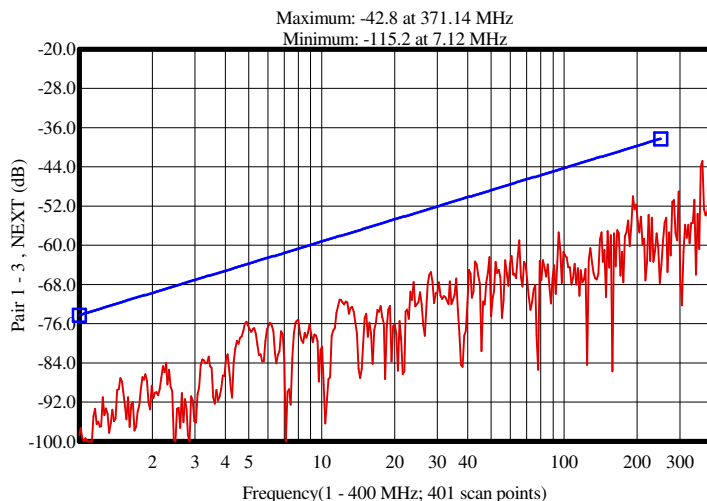
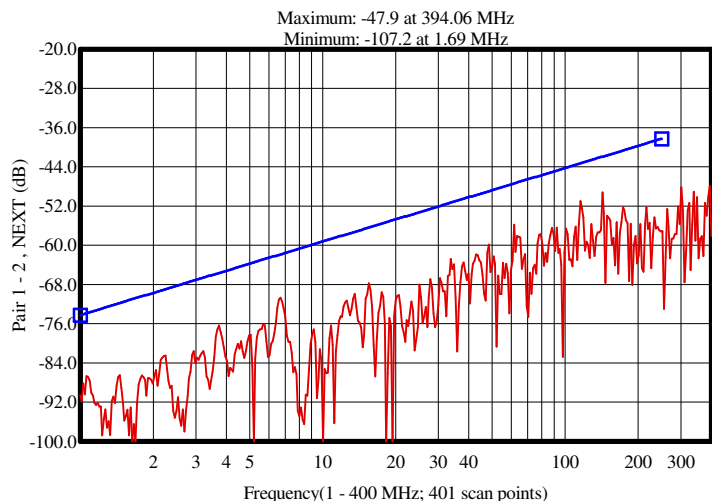
\* = Measured value out of spec.  
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### Summary and Graphic: Near End Crosstalk Loss (NEXT)

(Formula): NEXT >= 44.300 - 15.000 \* Log(f/100.000)

| Pair [Position] | Spec (Min)(dB) | Measured(dB) | Margin (dB) | @ Frequency (MHz) | Test Result |
|-----------------|----------------|--------------|-------------|-------------------|-------------|
| Pair 1 - 2      | 42.0           | 49.2         | 7.2         | 142.30            | Passed      |
| Pair 1 - 3      | 40.0           | 50.0         | 10.0        | 192.00            | Passed      |
| Pair 1 - 4      | 73.9           | 87.6         | 13.7        | 1.06              | Passed      |
| Pair 2 - 3      | 48.8           | 60.3         | 11.5        | 49.87             | Passed      |
| Pair 2 - 4      | 48.0           | 52.0         | 4.0         | 56.22             | Passed      |
| Pair 3 - 4      | 46.7           | 56.0         | 9.3         | 68.31             | Passed      |



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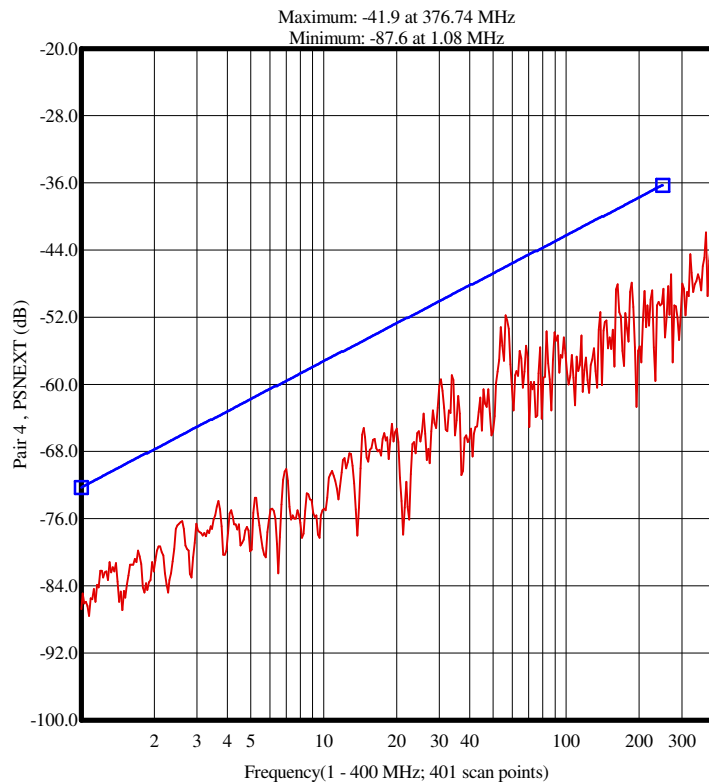
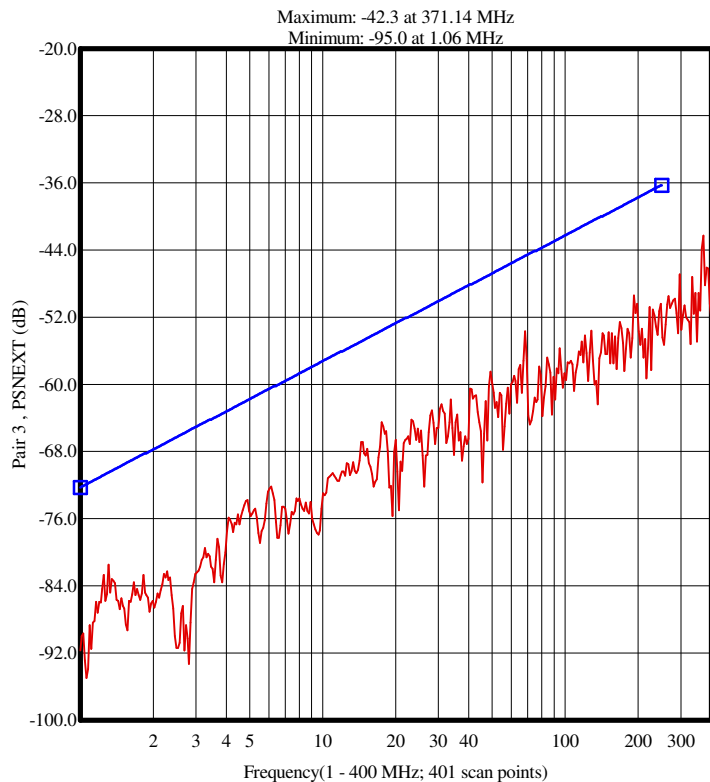
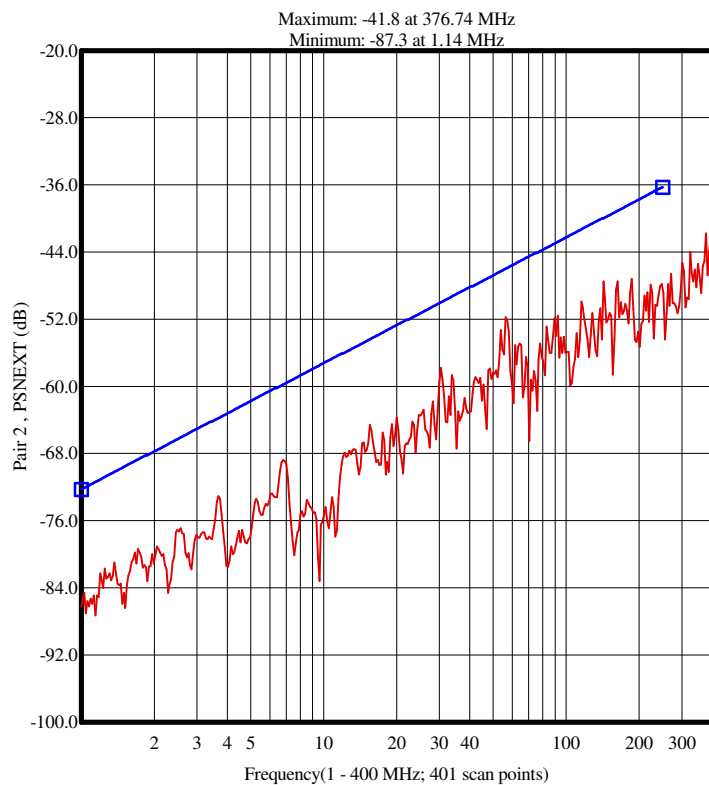
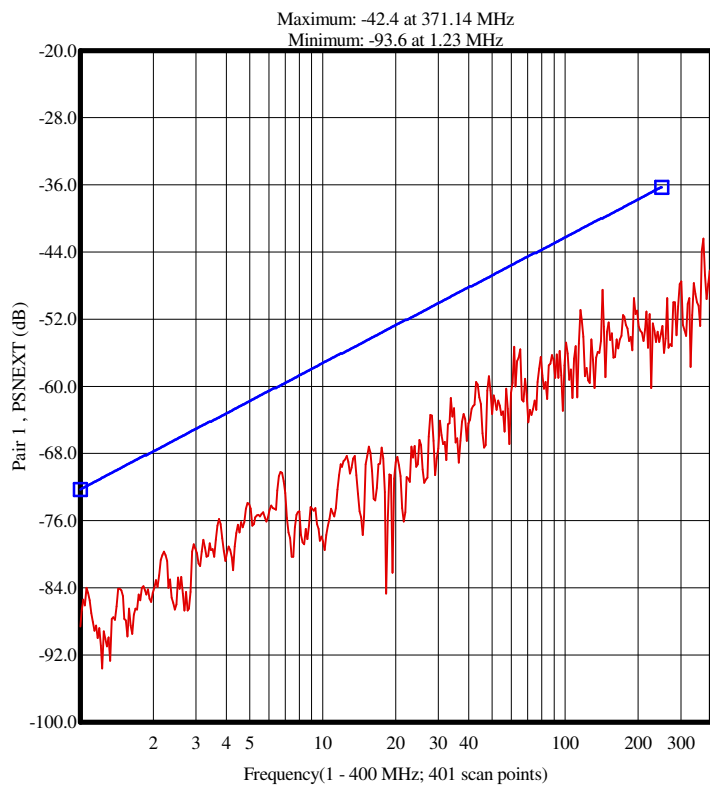
\*\*\* = Measured value is invalid.



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

(Formula): PSNEXT >= 42.30 - 15.00 \* Log(f/100.000)

| Pair [Position] | Spec (Min)(dB) | Measured(dB) | Margin (dB) | @ Frequency (MHz) | Test Result |
|-----------------|----------------|--------------|-------------|-------------------|-------------|
| Pair 1 [6]      | 40.0           | 48.5         | 8.5         | 142.30            | Passed      |
| Pair 2 [7]      | 46.0           | 51.8         | 5.8         | 56.22             | Passed      |
| Pair 3 [8]      | 44.7           | 53.7         | 9.0         | 68.31             | Passed      |
| Pair 4 [9]      | 46.0           | 51.8         | 5.8         | 56.22             | Passed      |



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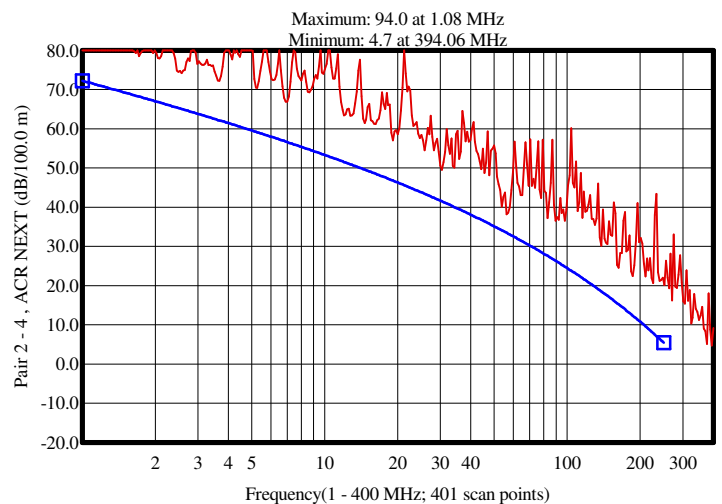
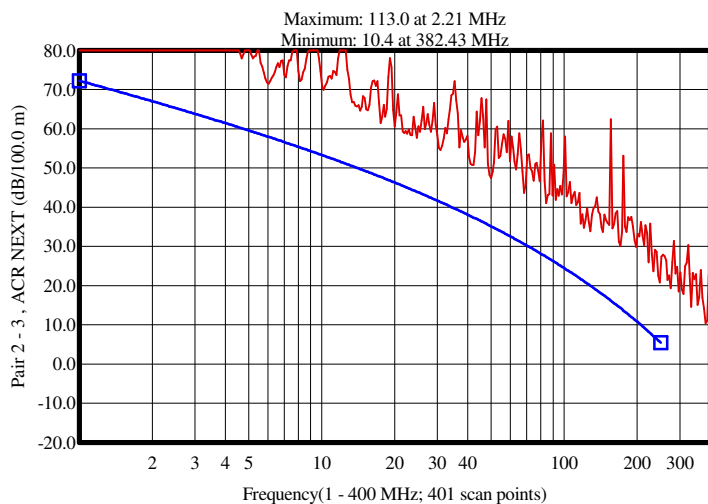
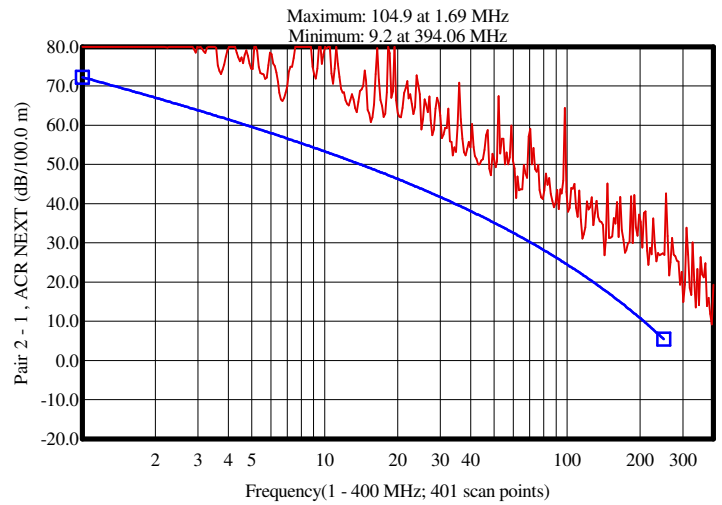
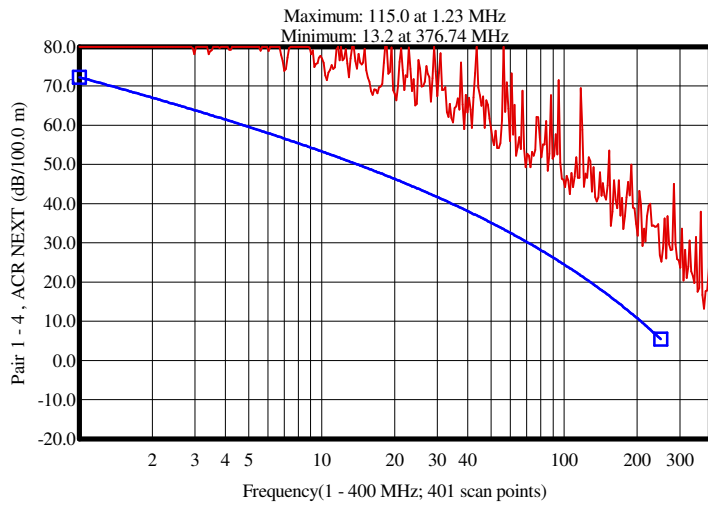
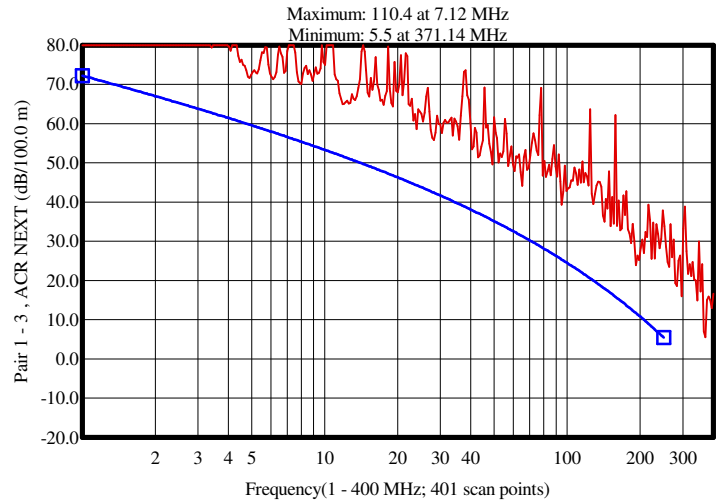
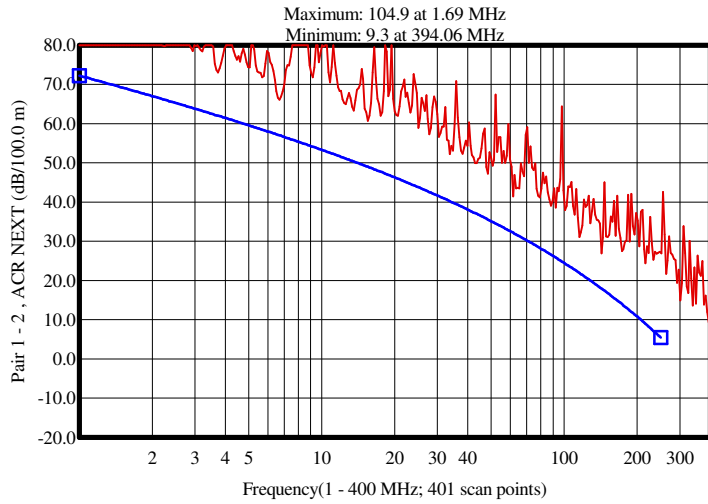
\* = Measured value out of spec.  
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**Summary and Graphic: ATT to NEXT Ratio (ACR)**

(Formula):  $ACR(next) \geq (1.000 * NEXT Formula) - (1.000 * IL Formula) + 0.000$  (Refer to manual)

| Pair [Position] | Spec (Min)(dB/100.0 m) | Measured(dB/100.0 m) | Margin (dB/100.0 m) | @ Frequency (MHz) | Test Result |
|-----------------|------------------------|----------------------|---------------------|-------------------|-------------|
| Pair 1 - 2      | 17.9                   | 26.9                 | 9.0                 | 142.30            | Passed      |
| Pair 1 - 3      | 59.7                   | 71.6                 | 11.9                | 4.89              | Passed      |
| Pair 1 - 4      | 71.8                   | 85.7                 | 13.9                | 1.06              | Passed      |
| Pair 2 - 1      | 17.9                   | 26.8                 | 8.9                 | 142.30            | Passed      |
| Pair 2 - 3      | 35.1                   | 47.4                 | 12.3                | 49.87             | Passed      |
| Pair 2 - 4      | 33.5                   | 38.2                 | 4.7                 | 56.22             | Passed      |



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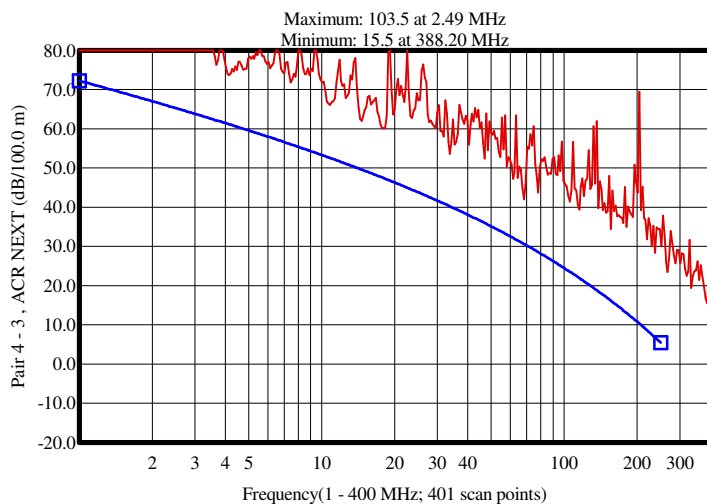
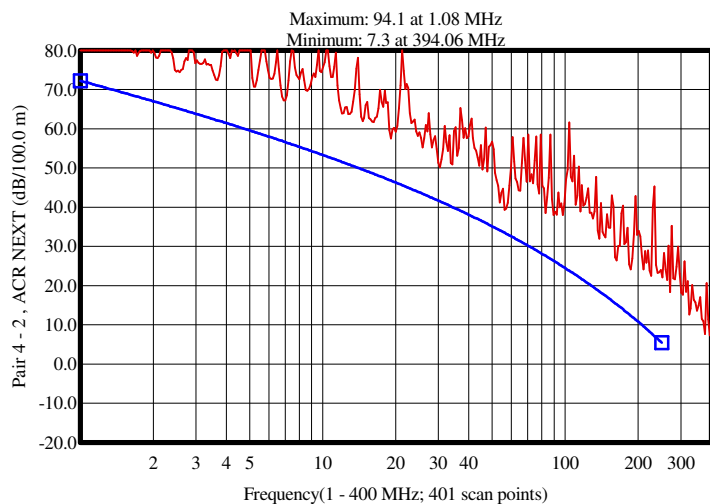
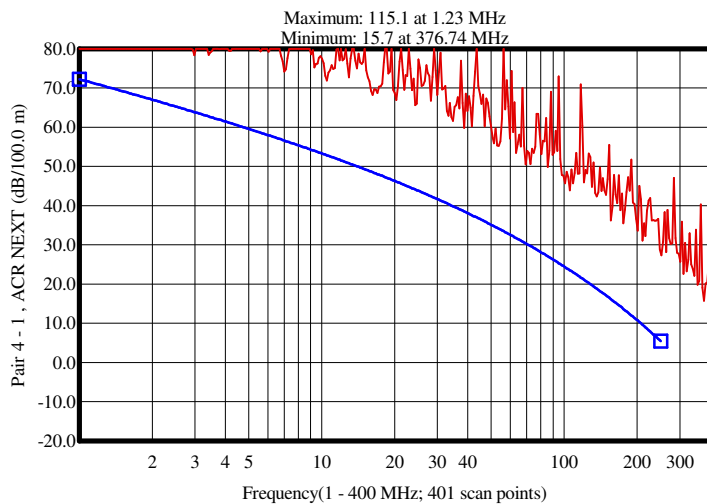
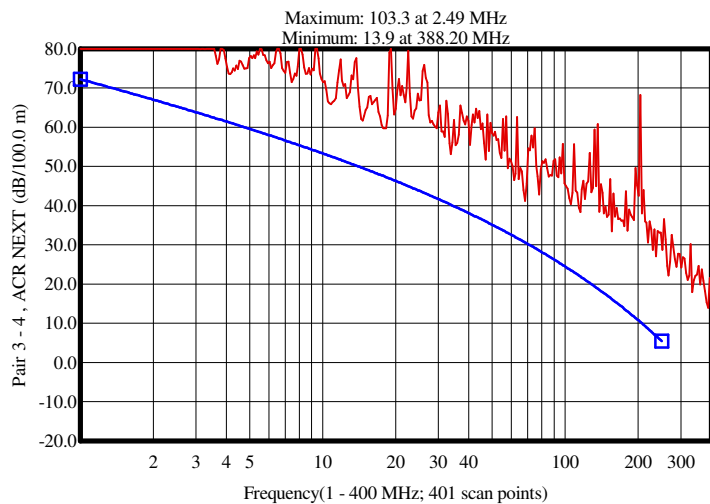
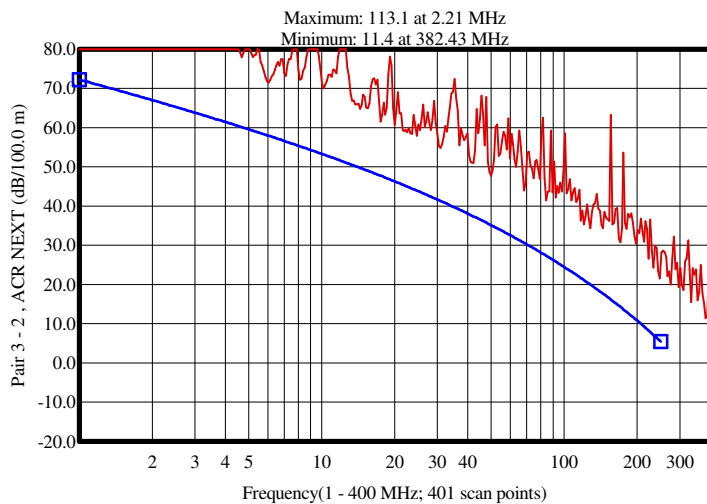
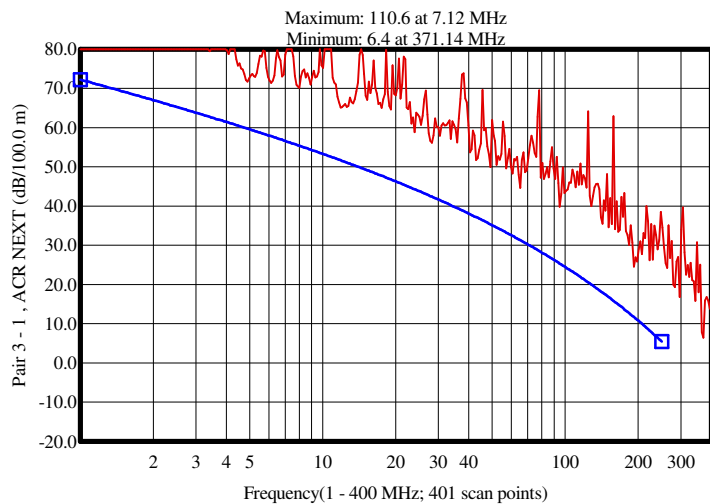
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### Summary and Graphic: ATT to NEXT Ratio (ACR)

(Formula):  $ACR(next) \geq (1.000 * NEXT Formula) - (1.000 * IL Formula) + 0.000$  (Refer to manual)

| Pair [Position] | Spec (Min)(dB/100.0 m) | Measured(dB/100.0 m) | Margin (dB/100.0 m) | @ Frequency (MHz) | Test Result |
|-----------------|------------------------|----------------------|---------------------|-------------------|-------------|
| Pair 3 - 1      | 59.7                   | 71.7                 | 12.0                | 4.89              | Passed      |
| Pair 3 - 2      | 35.1                   | 47.7                 | 12.6                | 49.87             | Passed      |
| Pair 3 - 4      | 30.6                   | 41.2                 | 10.6                | 68.31             | Passed      |
| Pair 4 - 1      | 71.8                   | 85.8                 | 14.0                | 1.06              | Passed      |
| Pair 4 - 2      | 33.5                   | 39.3                 | 5.8                 | 56.22             | Passed      |
| Pair 4 - 3      | 30.6                   | 42.0                 | 11.4                | 68.31             | Passed      |



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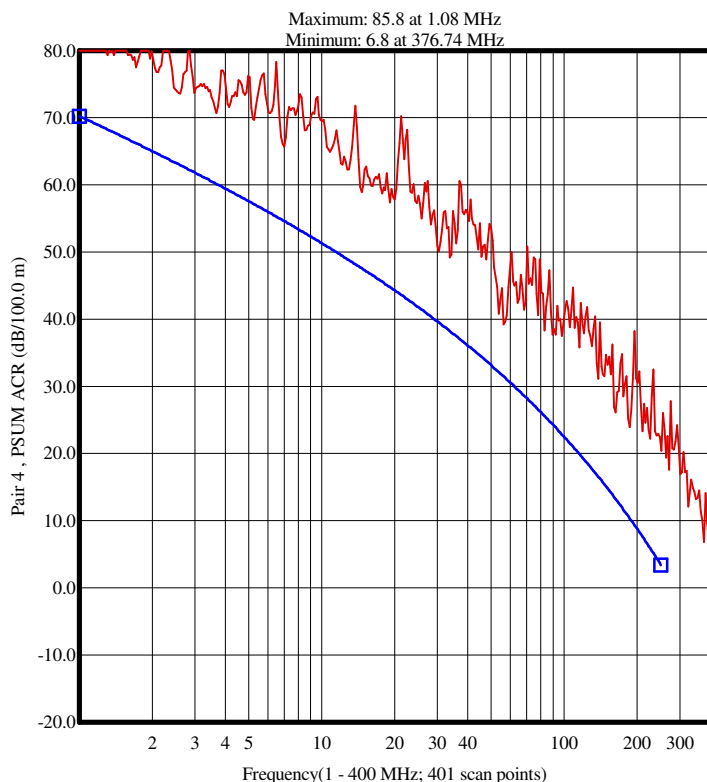
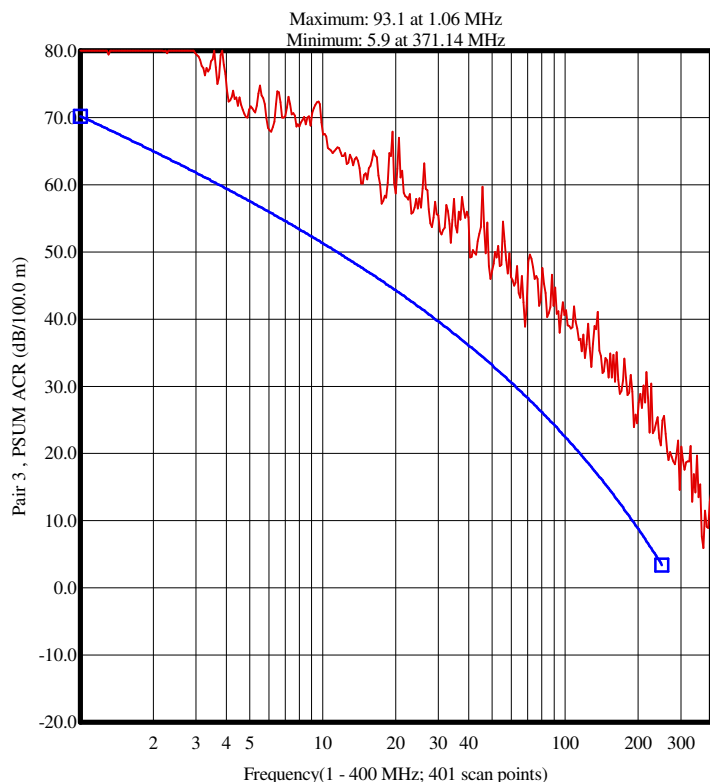
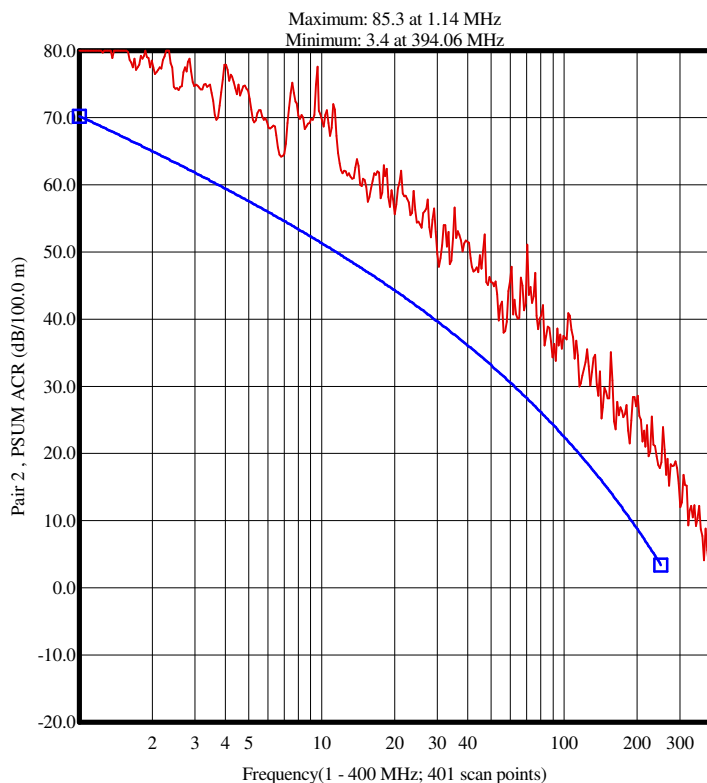
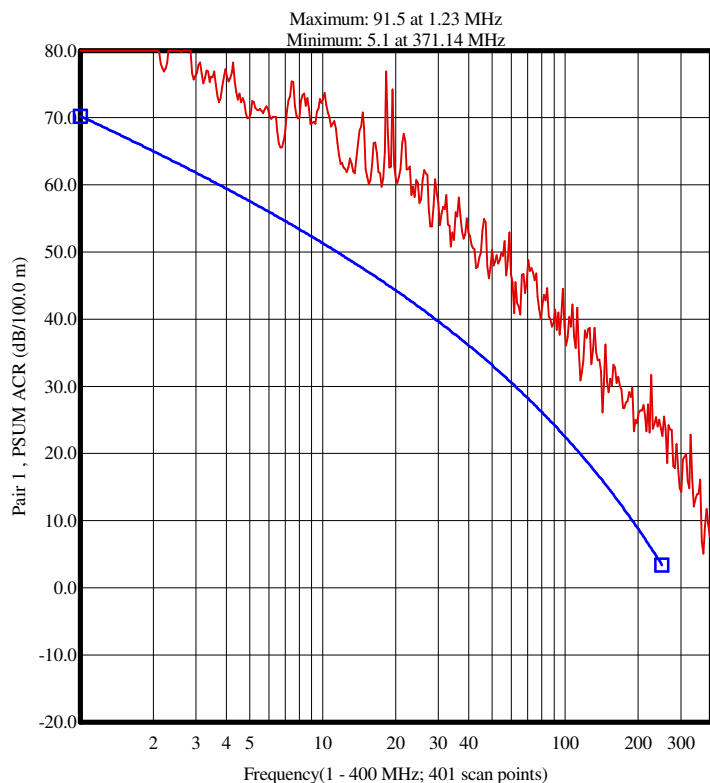
\* = Measured value out of spec.  
xxx = No entry.

\*\*\* = Measured value is invalid.

**Summary and Graphic: Power Sum ACR (PS ACR)**

(Formula): PS ACR >= [74.000-15.000\*Log(f/0.772)]-[1.808\*SQRT(f)+0.017\*f+0.200/SQRT(f)]+0.000\*Log(f) (Refer to manual)

| Pair [Position] | Spec (Min)(dB/100.0 m) | Measured(dB/100.0 m) | Margin (dB/100.0 m) | @ Frequency (MHz) | Test Result |
|-----------------|------------------------|----------------------|---------------------|-------------------|-------------|
| Pair 1 [6]      | 16.0                   | 26.1                 | 10.1                | 142.30            | Passed      |
| Pair 2 [7]      | 31.5                   | 38.0                 | 6.5                 | 56.22             | Passed      |
| Pair 3 [8]      | 28.6                   | 38.9                 | 10.3                | 68.31             | Passed      |
| Pair 4 [9]      | 31.5                   | 39.2                 | 7.7                 | 56.22             | Passed      |



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

\* = Measured value out of spec.  
xxx = No entry.

\*\*\* = Measured value is invalid.

**Detail Discrete Frequencies ---Return Loss (RL)(dB)**

(Formula): $RL \geq 20.0 + 5.0 * \text{Log}(f)$ ; 25.0; 25.0-7.0\* $\text{Log}(f/20.0)$  (Refer to manual)

|            |      |      |      |       |       |       |       |       |       |        |
|------------|------|------|------|-------|-------|-------|-------|-------|-------|--------|
| Frequency  | 1.00 | 4.00 | 8.00 | 10.00 | 16.00 | 20.00 | 25.00 | 31.25 | 62.50 | 100.00 |
| Min Spec   | 20.0 | 23.0 | 24.5 | 25.0  | 25.0  | 25.0  | 24.3  | 23.6  | 21.5  | 20.1   |
| Pair 1 [6] | 29.4 | 33.8 | 35.1 | 42.7  | 39.4  | 43.1  | 41.6  | 38.7  | 40.0  | 37.6   |
| Pair 2 [7] | 29.3 | 35.5 | 35.9 | 37.3  | 36.2  | 36.8  | 34.9  | 34.7  | 36.4  | 34.4   |
| Pair 3 [8] | 29.0 | 32.3 | 34.5 | 39.2  | 37.4  | 41.3  | 36.6  | 37.6  | 42.1  | 38.7   |
| Pair 4 [9] | 29.0 | 33.4 | 34.4 | 34.4  | 32.8  | 34.6  | 31.1  | 34.6  | 35.7  | 32.6   |

**Continue:Return Loss (RL)(dB)**

|            |        |        |  |  |  |  |  |  |  |  |
|------------|--------|--------|--|--|--|--|--|--|--|--|
| Frequency  | 200.00 | 250.00 |  |  |  |  |  |  |  |  |
| Min Spec   | 18.0   | 17.3   |  |  |  |  |  |  |  |  |
| Pair 1 [6] | 33.4   | 28.2   |  |  |  |  |  |  |  |  |
| Pair 2 [7] | 34.1   | 28.6   |  |  |  |  |  |  |  |  |
| Pair 3 [8] | 35.9   | 29.3   |  |  |  |  |  |  |  |  |
| Pair 4 [9] | 28.6   | 25.4   |  |  |  |  |  |  |  |  |

**Detail Discrete Frequencies ---Insertion Loss (IL)(dB/100.0 m)(Curve Fit)@20C**

|            |      |      |      |       |       |       |       |       |       |        |
|------------|------|------|------|-------|-------|-------|-------|-------|-------|--------|
| Frequency  | 1.00 | 4.00 | 8.00 | 10.00 | 16.00 | 20.00 | 25.00 | 31.25 | 62.50 | 100.00 |
| Max Spec   | 2.02 | 3.78 | 5.32 | 5.95  | 7.55  | 8.47  | 9.50  | 10.67 | 15.38 | 19.79  |
| Pair 1 [6] | 1.87 | 3.61 | 5.08 | 5.68  | 7.22  | 8.11  | 9.07  | 10.15 | 14.49 | 18.60  |
| Pair 2 [7] | 1.83 | 3.56 | 5.02 | 5.63  | 7.17  | 8.07  | 9.03  | 10.11 | 14.50 | 18.61  |
| Pair 3 [8] | 1.83 | 3.52 | 4.95 | 5.54  | 7.03  | 7.91  | 8.85  | 9.88  | 14.13 | 18.13  |
| Pair 4 [9] | 1.75 | 3.34 | 4.69 | 5.25  | 6.66  | 7.49  | 8.37  | 9.39  | 13.38 | 17.13  |
| Average    | 1.82 | 3.50 | 4.93 | 5.52  | 7.02  | 7.89  | 8.83  | 9.88  | 14.12 | 18.11  |

**Continue:Insertion Loss (IL)(dB/100.0 m)(Curve Fit)@20C**

|            |        |        |        |        |  |  |  |  |  |  |
|------------|--------|--------|--------|--------|--|--|--|--|--|--|
| Frequency  | 125.00 | 155.00 | 200.00 | 250.00 |  |  |  |  |  |  |
| Max Spec   | 22.35  | 25.16  | 28.98  | 32.84  |  |  |  |  |  |  |
| Pair 1 [6] | 20.83  | 23.51  | 26.70  | 30.10  |  |  |  |  |  |  |
| Pair 2 [7] | 20.96  | 23.45  | 26.68  | 30.10  |  |  |  |  |  |  |
| Pair 3 [8] | 20.34  | 22.66  | 26.07  | 29.39  |  |  |  |  |  |  |
| Pair 4 [9] | 19.26  | 21.60  | 24.89  | 28.09  |  |  |  |  |  |  |
| Average    | 20.34  | 22.80  | 26.08  | 29.41  |  |  |  |  |  |  |

**Detail Discrete Frequencies ---Near End Crosstalk Loss (NEXT)(dB)**

(Formula):  $NEXT \geq 44.300 - 15.000 * \text{Log}(f/100.000)$

|            |      |       |      |       |       |       |       |       |       |        |
|------------|------|-------|------|-------|-------|-------|-------|-------|-------|--------|
| Frequency  | 1.00 | 4.00  | 8.00 | 10.00 | 16.00 | 20.00 | 25.00 | 31.25 | 62.50 | 100.00 |
| Min Spec   | 74.3 | 65.2  | 60.7 | 59.3  | 56.2  | 54.7  | 53.3  | 51.8  | 47.3  | 44.3   |
| Pair 1 - 2 | 90.6 | 83.2  | 94.7 | 97.7  | 73.3  | 71.2  | 68.9  | 69.1  | 61.2  | 59.3   |
| Pair 1 - 3 | 98.7 | 84.8  | 75.2 | 80.9  | 78.7  | 76.1  | 71.7  | 70.9  | 65.8  | 61.7   |
| Pair 1 - 4 | 94.1 | 89.3  | 88.3 | 82.8  | 75.9  | 76.1  | 84.5  | 81.0  | 78.8  | 63.8   |
| Pair 2 - 3 | 97.7 | 100.3 | 80.7 | 77.7  | 77.8  | 68.6  | 69.4  | 65.5  | 66.0  | 71.1   |
| Pair 2 - 4 | 88.7 | 86.7  | 77.4 | 80.6  | 68.5  | 66.7  | 67.4  | 63.7  | 60.6  | 60.8   |
| Pair 3 - 4 | 94.2 | 79.9  | 85.1 | 77.3  | 72.9  | 72.6  | 75.8  | 68.8  | 63.3  | 63.5   |

**Continue:Near End Crosstalk Loss (NEXT)(dB)**

|            |        |        |        |  |  |  |  |  |  |  |
|------------|--------|--------|--------|--|--|--|--|--|--|--|
| Frequency  | 155.00 | 200.00 | 250.00 |  |  |  |  |  |  |  |
| Min Spec   | 41.4   | 39.7   | 38.3   |  |  |  |  |  |  |  |
| Pair 1 - 2 | 58.4   | 62.5   | 57.2   |  |  |  |  |  |  |  |
| Pair 1 - 3 | 60.0   | 54.2   | 65.4   |  |  |  |  |  |  |  |
| Pair 1 - 4 | 63.5   | 59.3   | 55.9   |  |  |  |  |  |  |  |
| Pair 2 - 3 | 77.9   | 58.9   | 55.0   |  |  |  |  |  |  |  |
| Pair 2 - 4 | 62.2   | 58.5   | 50.9   |  |  |  |  |  |  |  |
| Pair 3 - 4 | 60.0   | 69.3   | 59.8   |  |  |  |  |  |  |  |

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

\* = Measured value out of spec.  
xxx = No entry.

\*\*\* = Measured value is invalid.