

**EQUIPMENT LIST:**

The following equipment was employed in conducting the tests.

<u>Equipment Used</u>	<u>Model Number</u>	<u>Serial Number</u>	<u>Calibration Date</u>
Hewlett Packard Automatic Cable Test System	HP46152A	3903U01003	03/06/2008

**SAMPLE DESCRIPTION:**

(3 Connectors channel, bundled in a 6 around 1 configuration)



<u>Component ID</u>	<u>Manufacturer</u>	<u>Part Number</u>	<u>Description</u>
1, 5, 7	Dan-Chief	415U-8-C6A-xx	Cat. 6A UTP Cord
2	Dan-Chief	QA-ABL-C6A	Cat. 6A UTP Keystone Jack
3	Dan-Chief	UTP-4231-C6A	Cat. 6A UTP Horizontal Cable
4, 6	Dan-Chief	QPB-24ABL-C6A	Cat. 6A UTP Patch Panel

The samples were received on December 3, 2008 and were in good condition. All samples were selected by an Intertek representative.

**RESULTS:** See appendixes A and B for the test results.

**CONCLUSION:**

The channel configuration, as previously described and selected by an Intertek representative, was tested in accordance with the standard listed herein, and did comply with the indicated applicable transmission requirements. The testing was performed at Intertek located in Cortland, New York.

These procedures and requirements were taken from the standards referred to on page 1.

Reviewed and Approved By:

*Antoine Pelletier*  
 Antoine Pelletier  
 Engineer  
 Global Cabling Products Testing

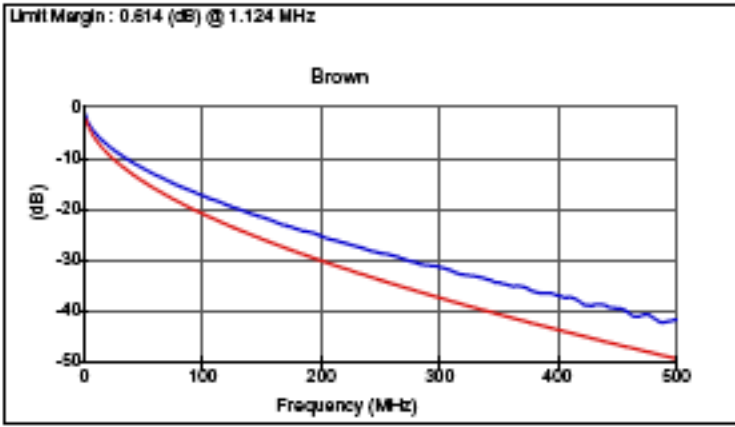
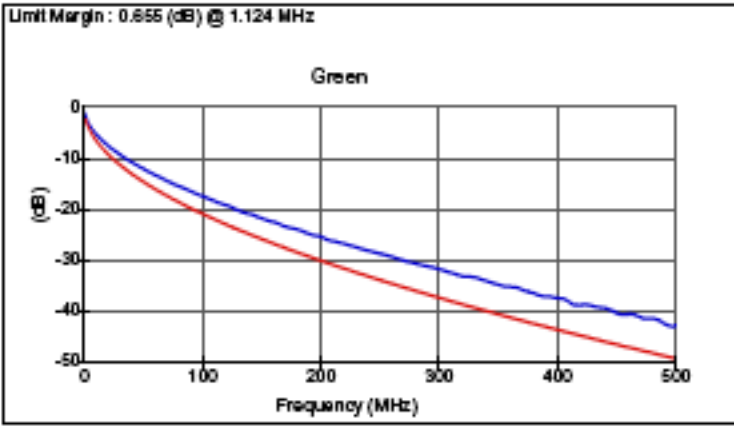
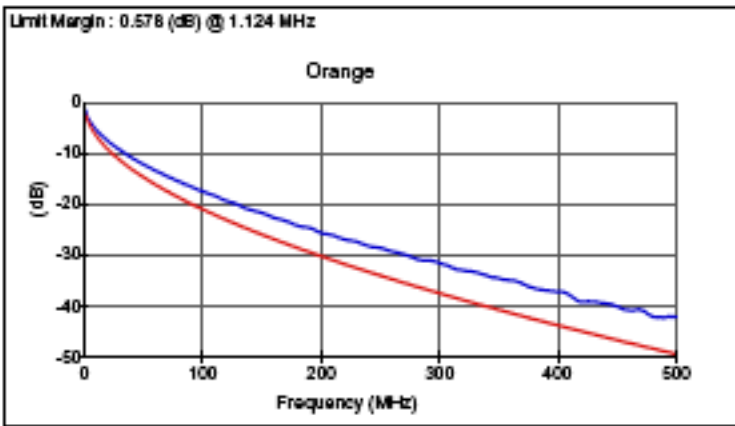
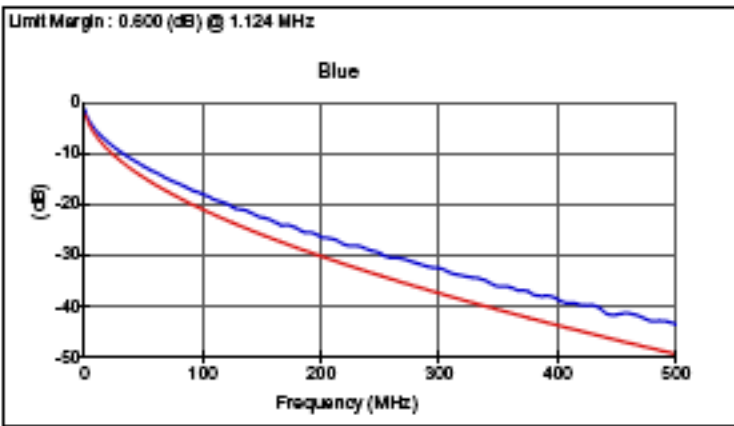
*John Cash*  
 John Cash  
 Technician  
 Global Cabling Products Testing

*Kathy Heath*  
 Kathy Heath  
 Project Coordinator  
 Global Cabling Products Testing



## Attenuation (Far End)

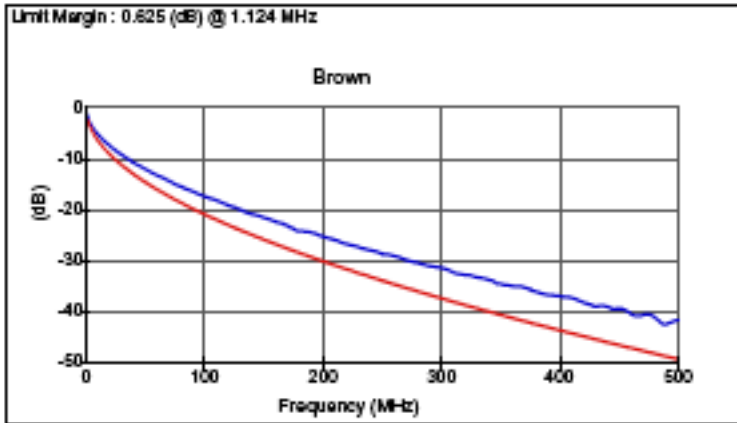
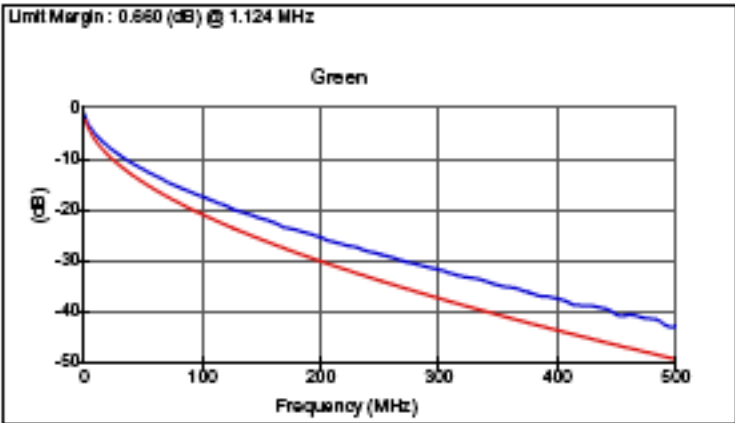
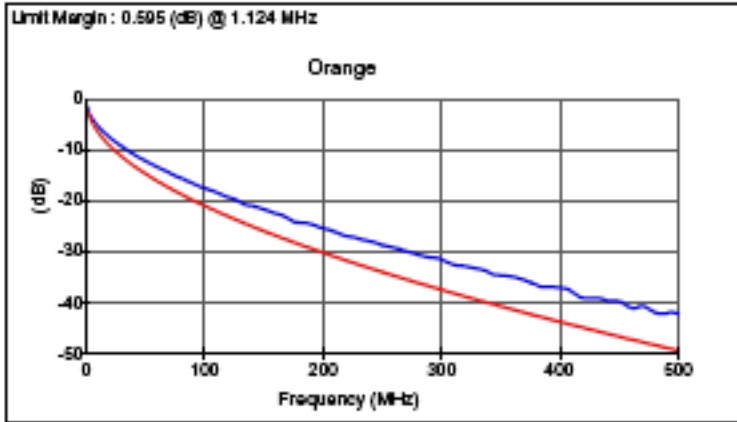
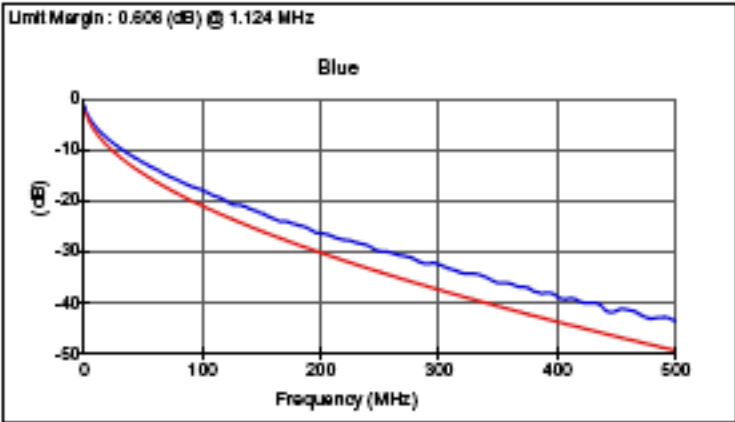
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<b>Specification</b>	TIA 568B2-10 - Augmented Cat 6 (Channel)	<b>Length(m)</b>	100.
<b>Part No</b>	UTP-4231-C6A	<b>Temperature</b>	20 °C
<b>Test Started</b>	12/17/2008 2:34:06 PM	<b>Appendix</b>	A
<b>Description</b>	3 Connector Channel	<b>Test Status</b>	Complies
<b>Operator Name</b>	John Cash		





## Attenuation (Near End)

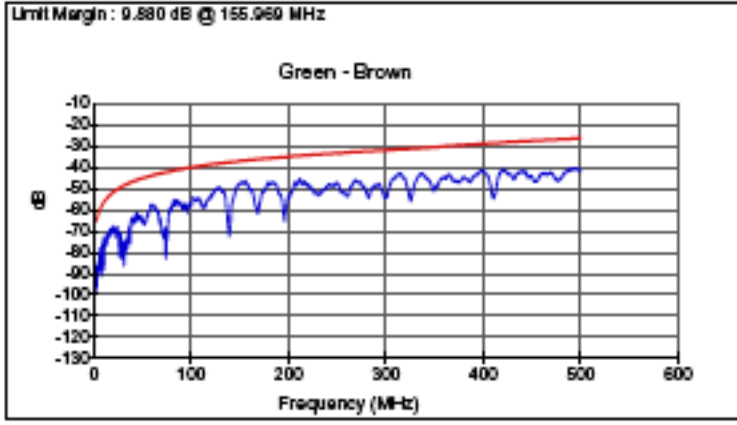
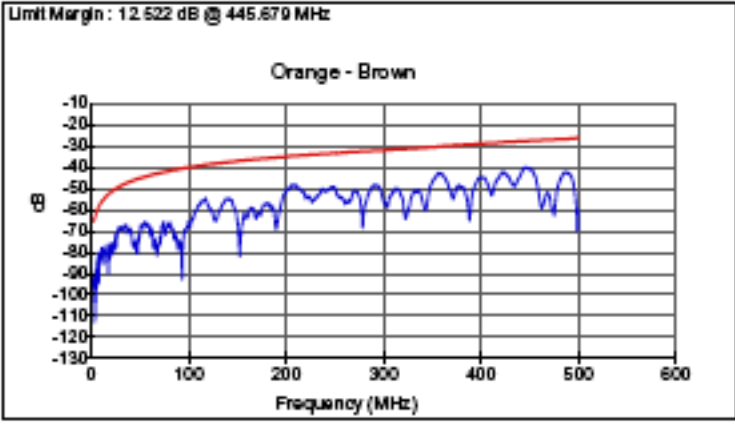
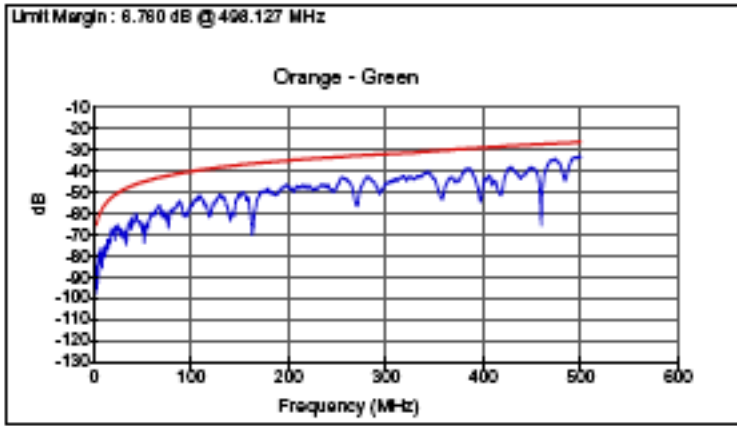
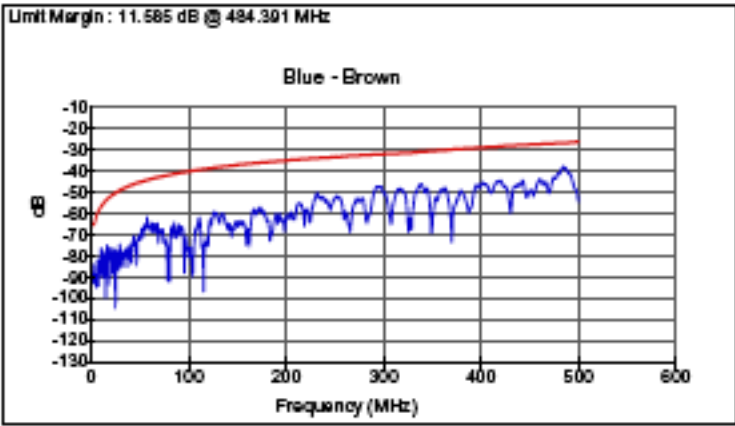
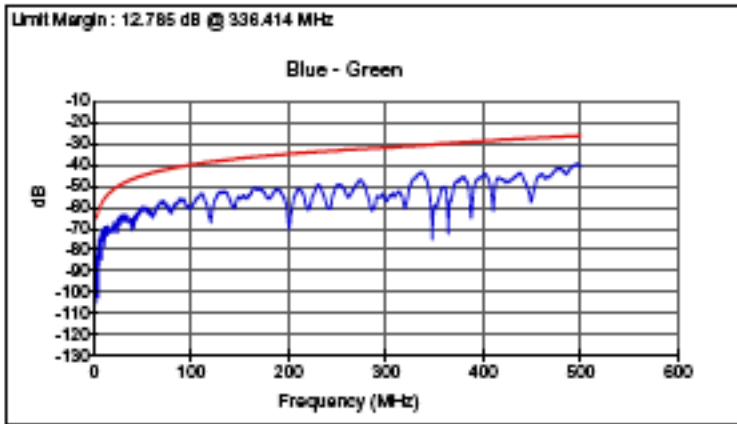
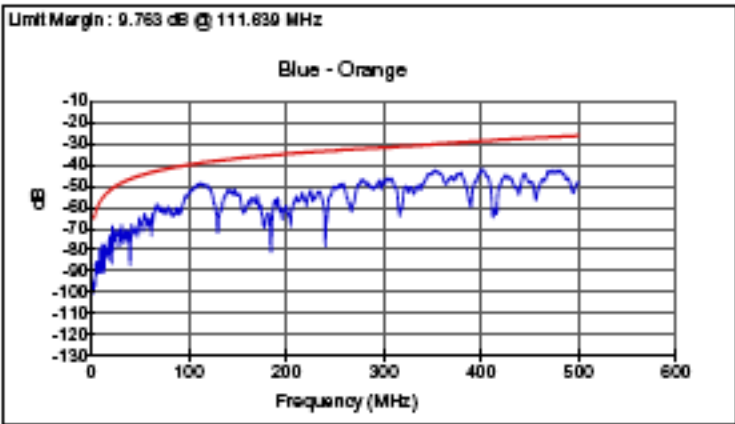
<b>Client</b>	Dan-Chief	<b>Project No</b>	3154740CRT-003b
<b>Specification</b>	TIA 568B2-10 - Augmented Cat 6 (Channel)	<b>Length(m)</b>	100.
<b>Part No</b>	UTP-4231-C6A	<b>Temperature</b>	20 °C
<b>Test Started</b>	12/17/2008 2:34:06 PM	<b>Appendix</b>	A
<b>Description</b>	3 Connector Channel	<b>Test Status</b>	Complies
<b>Operator Name</b>	John Cash		





## Near End Cross Talk (Near End)

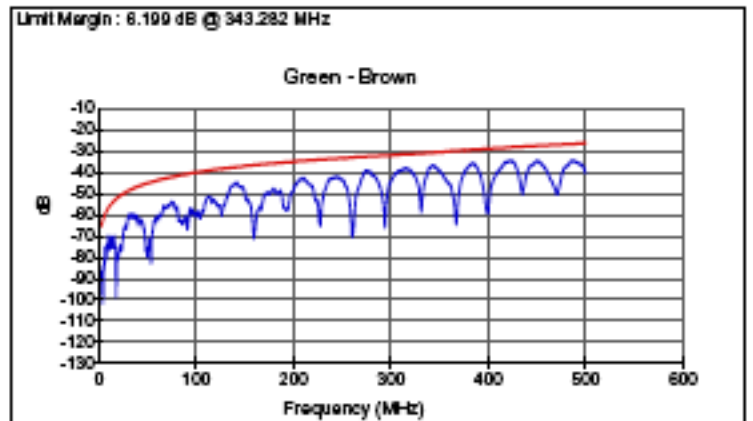
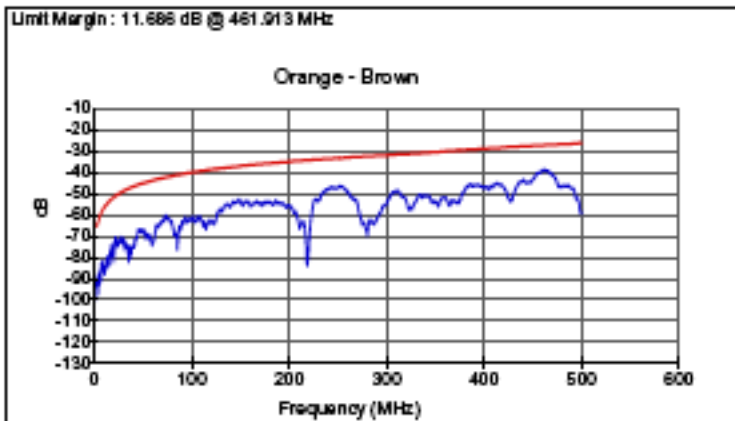
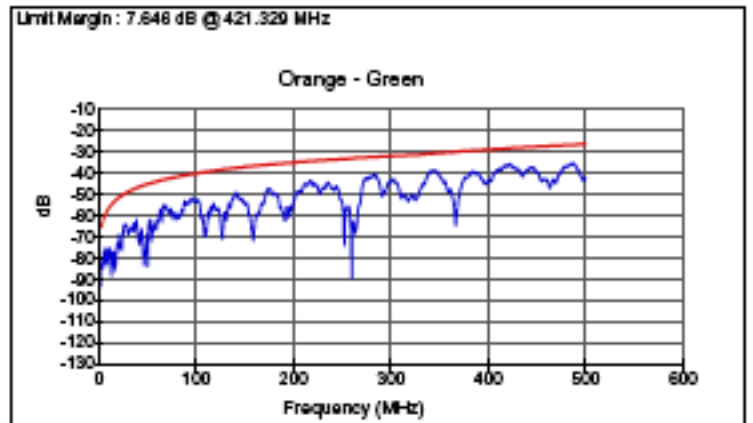
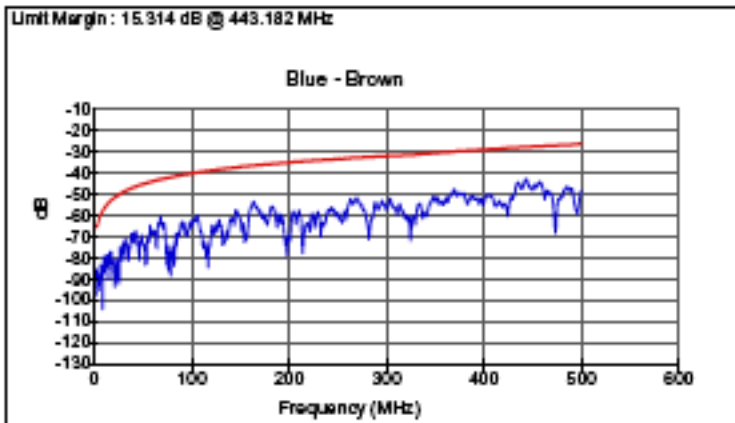
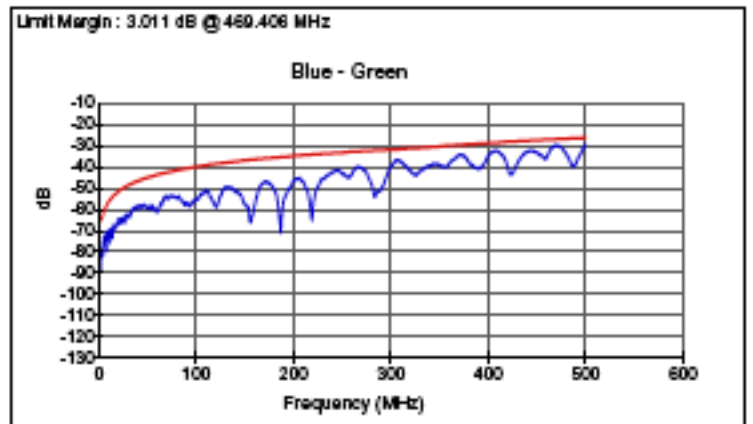
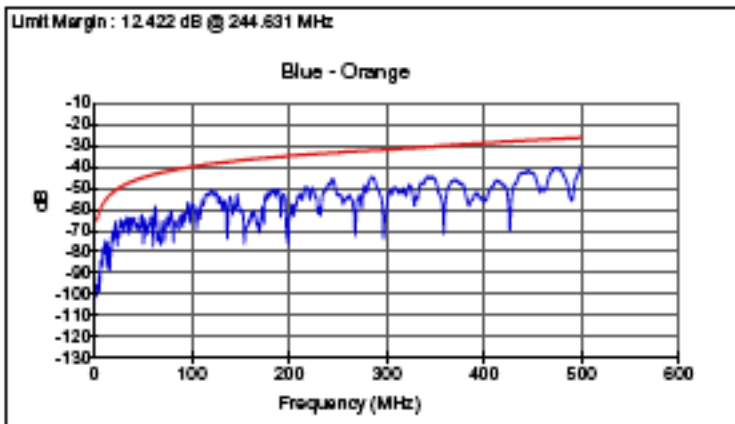
<b>Client</b>	Dan-Chief	<b>Project No</b>	3154740CRT-003b
<b>Specification</b>	TIA 568B2-10 - Augmented Cat 6 (Channel)	<b>Length(m)</b>	100.
<b>Part No</b>	UTP-4231-C6A	<b>Temperature</b>	20 °C
<b>Test Started</b>	12/17/2008 2:34:06 PM	<b>Appendix</b>	A
<b>Description</b>	3 Connector Channel	<b>Test Status</b>	Complies
<b>Operator Name</b>	John Cash		





## Near End Cross Talk (Far End)

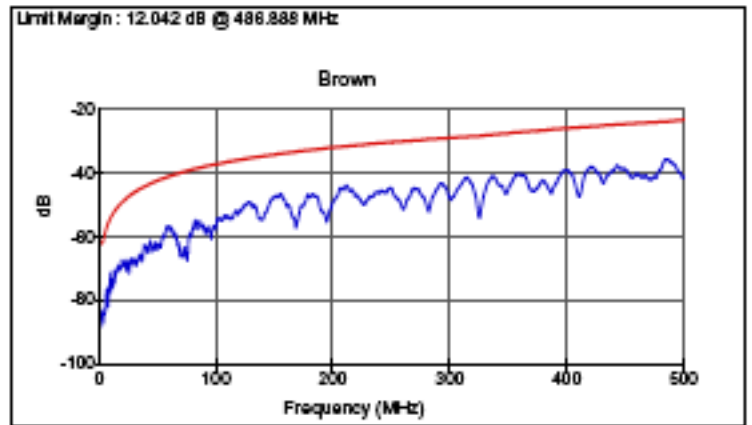
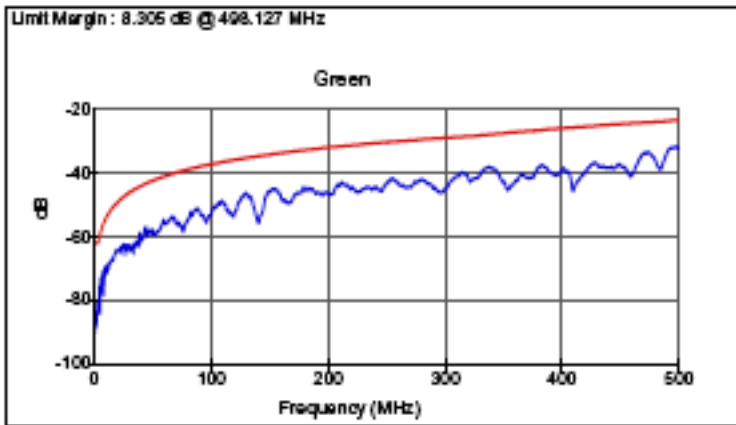
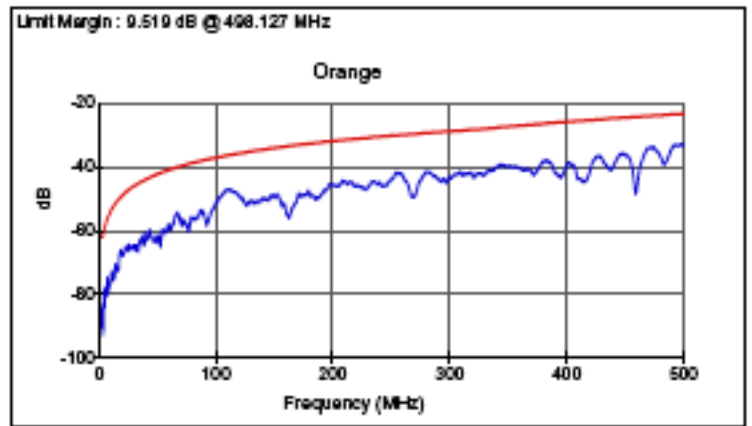
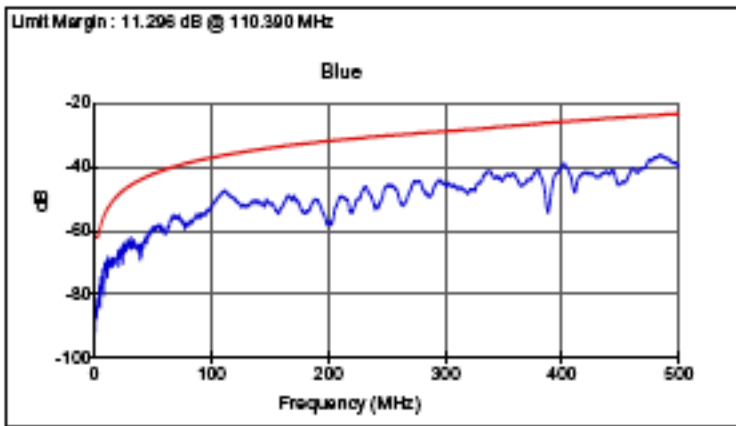
<b>Client</b>	Dan-Chief	<b>Project No</b>	3154740CRT-003b
<b>Specification</b>	TIA 568B2-10 - Augmented Cat 6 (Channel)	<b>Length(m)</b>	100.
<b>Part No</b>	UTP-4231-C6A	<b>Temperature</b>	20 °C
<b>Test Started</b>	12/17/2008 2:34:06 PM	<b>Appendix</b>	A
<b>Description</b>	3 Connector Channel	<b>Test Status</b>	Complies
<b>Operator Name</b>	John Cash		





## Power Sum NEXT (Near End)

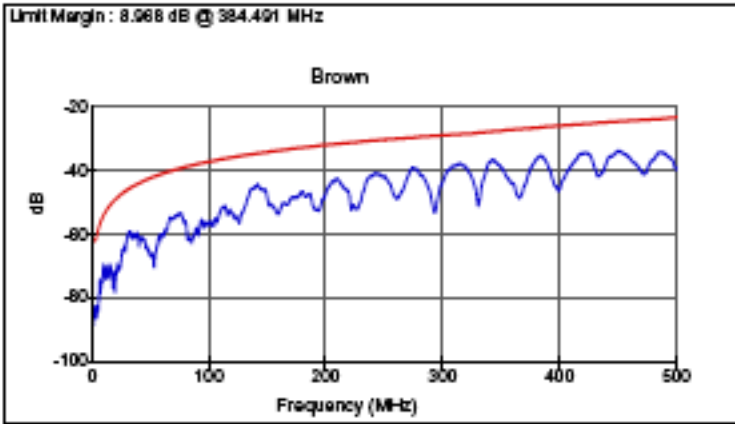
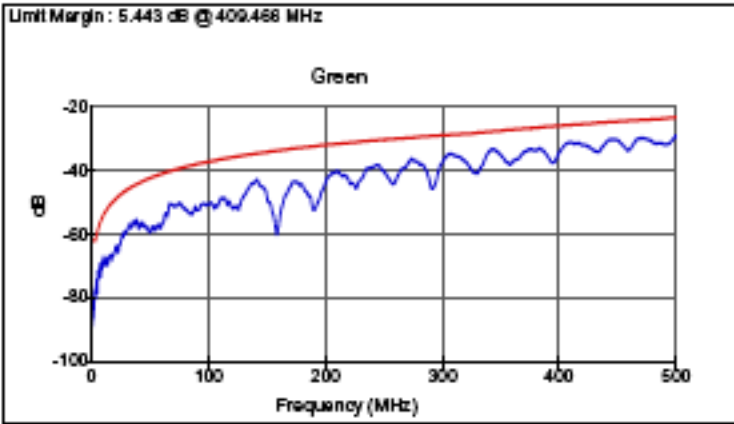
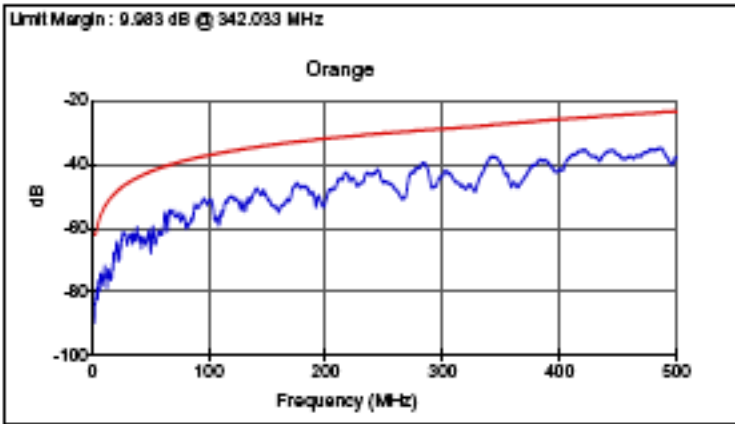
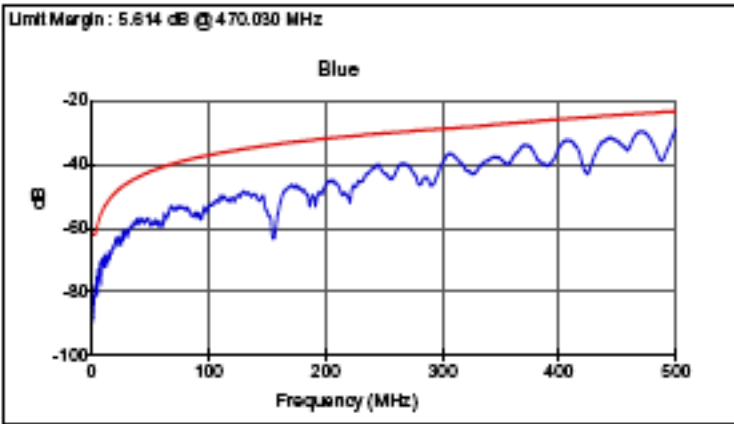
<b>Client</b>	Dan-Chief	<b>Project No</b>	3154740CRT-003b
<b>Specification</b>	TIA 568B2-10 - Augmented Cat 6 (Channel)	<b>Length(m)</b>	100.
<b>Part No</b>	UTP-4231-C6A	<b>Temperature</b>	20 °C
<b>Test Started</b>	12/17/2008 2:34:06 PM	<b>Appendix</b>	A
<b>Description</b>	3 Connector Channel	<b>Test Status</b>	Complies
<b>Operator Name</b>	John Cash		





Power Sum NEXT (Far End)

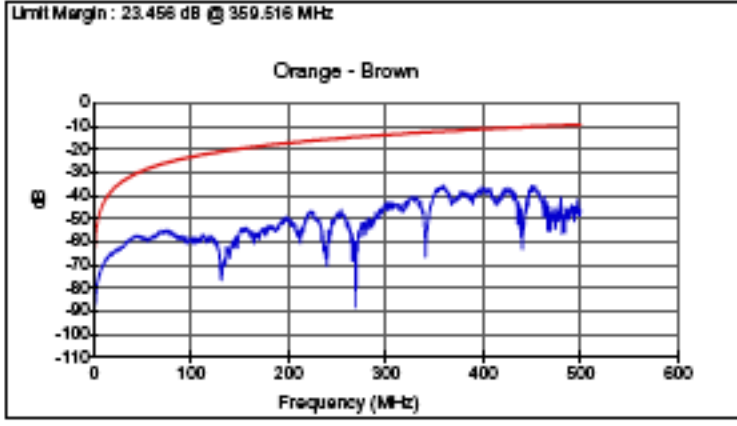
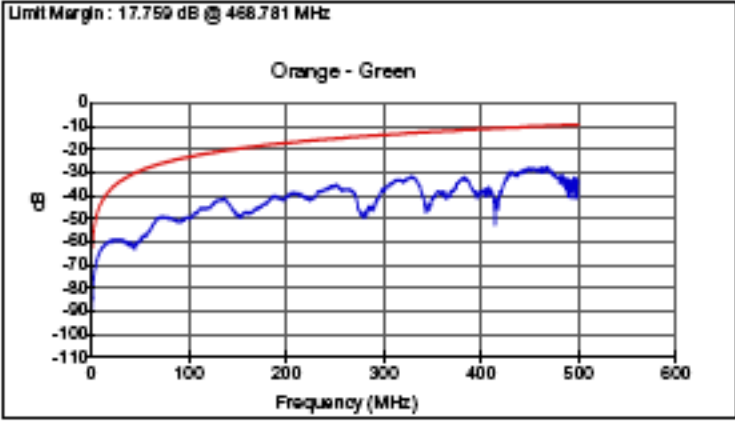
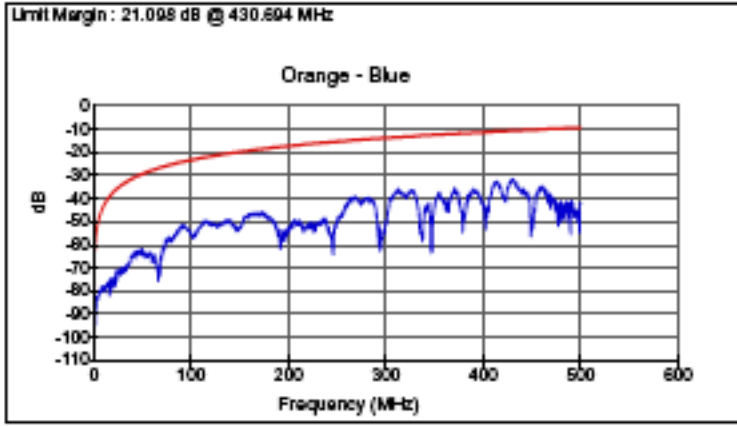
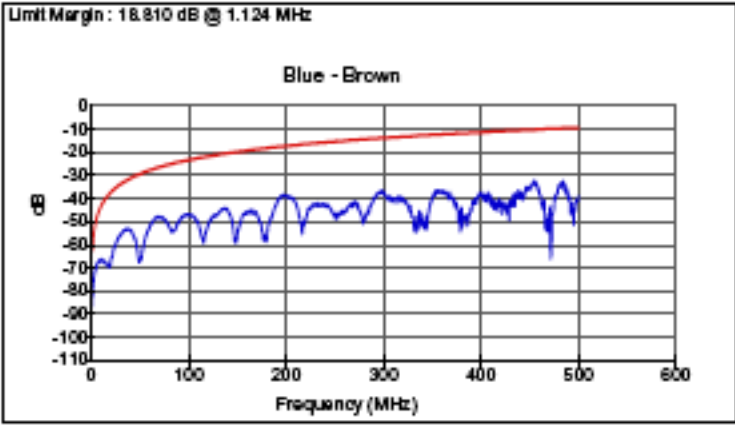
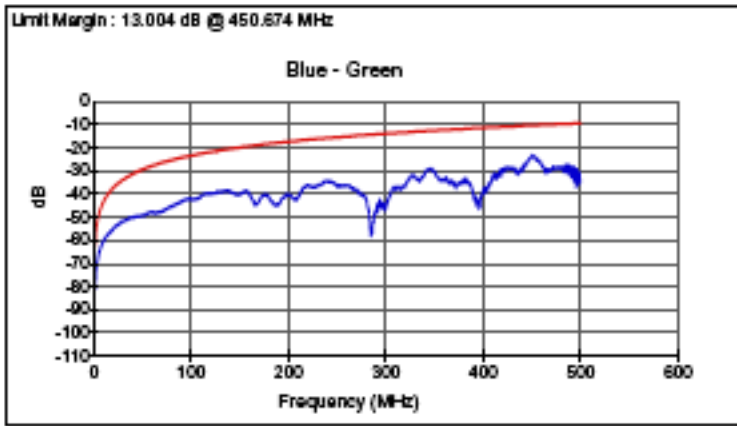
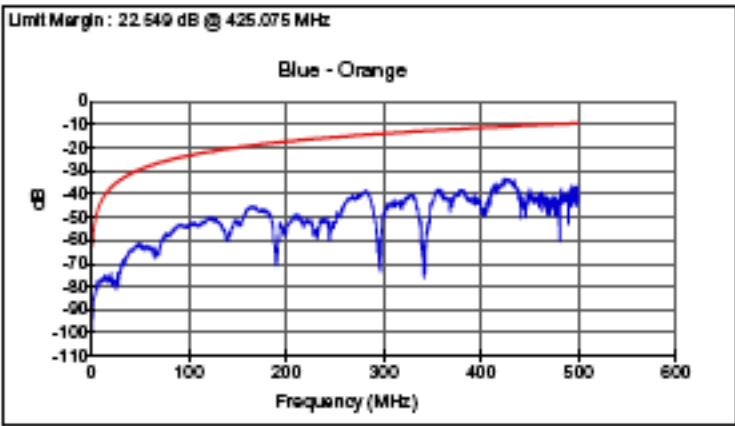
Client	Dan-Chief	Project No	3154740CRT-003b
Specification	TIA 568B2-10 - Augmented Cat 6 (Channel)		
Part No	UTP-4231-C6A	Length(m)	100.
Test Started	12/17/2008 2:34:06 PM	Temperature	20 °C
Description	3 Connector Channel	Appendix	A
Operator Name	John Cash	Test Status	Complies





**ELFEXT/ACRF (Near End)**

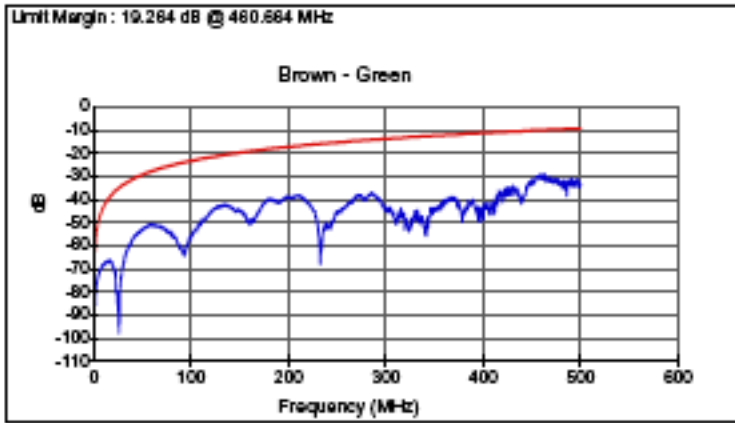
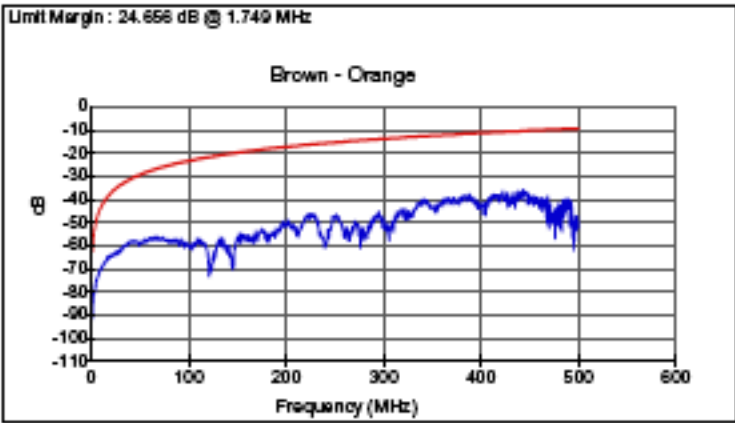
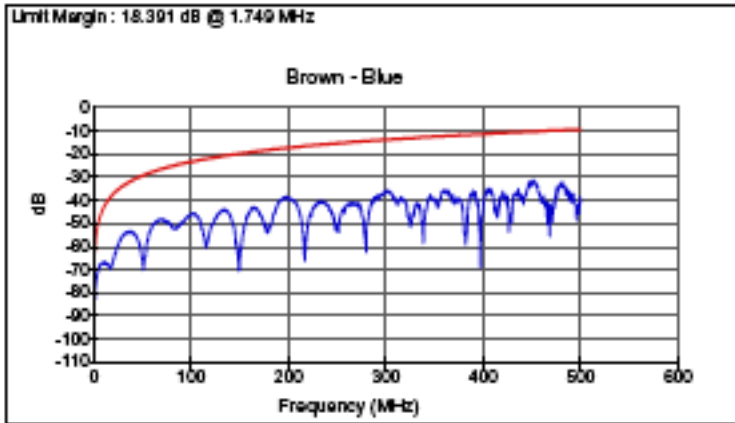
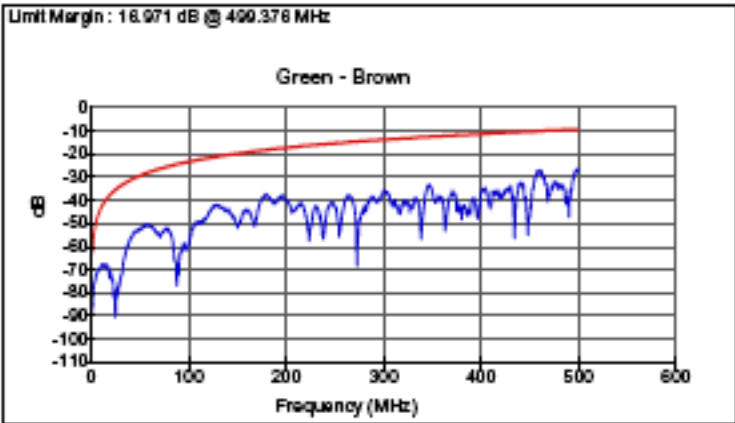
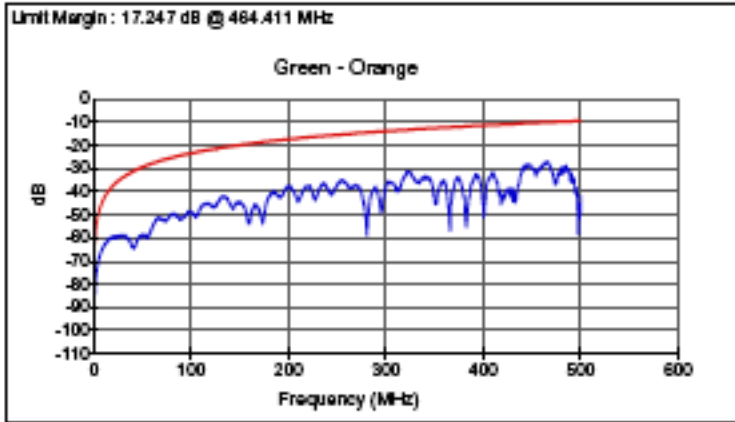
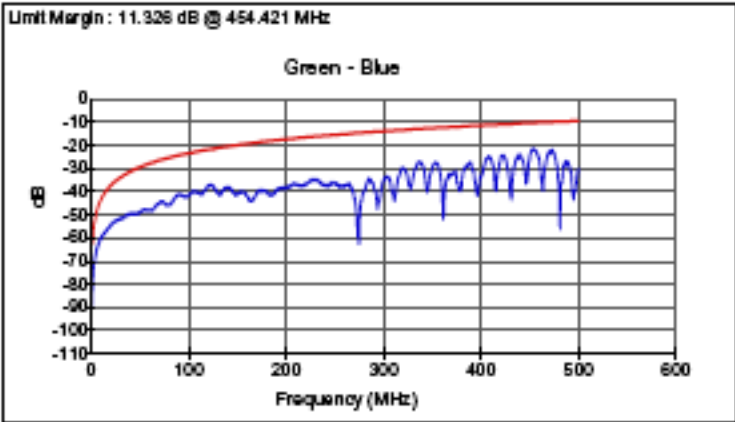
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<b>Specification</b>	TIA 568B2-10 - Augmented Cat 6 (Channel)	<b>Length(m)</b>	100.
<b>Part No</b>	UTP-4231-C6A	<b>Temperature</b>	20 °C
<b>Test Started</b>	12/17/2008 2:34:06 PM	<b>Appendix</b>	A
<b>Description</b>	3 Connector Channel	<b>Test Status</b>	Complies
<b>Operator Name</b>	John Cash		





ELFEXT/ACRF (Near End)

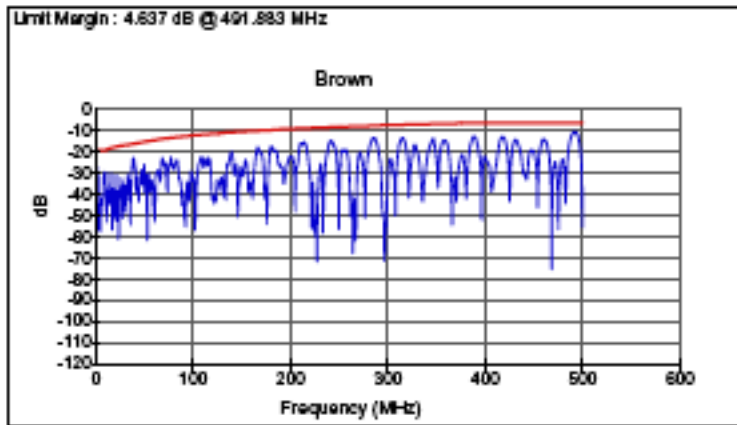
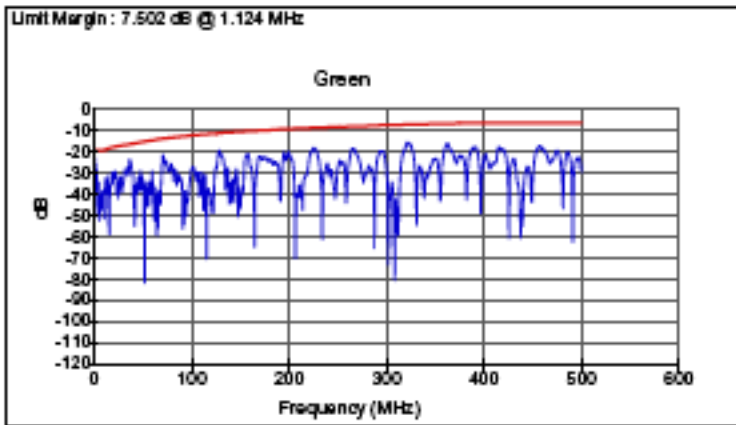
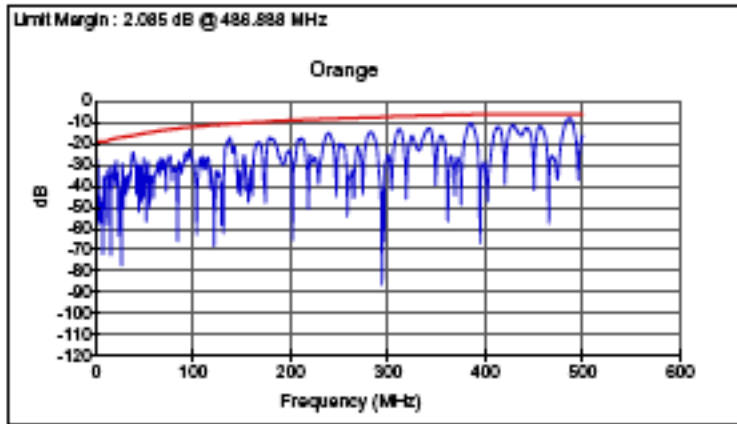
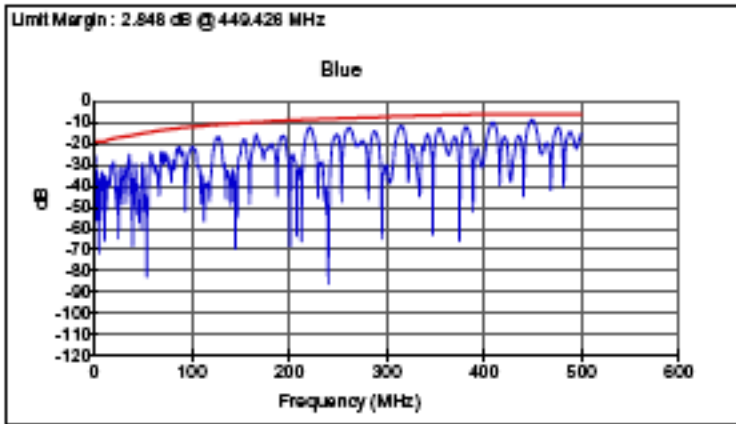
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Specification	TIA 568B2-10 - Augmented Cat 6 (Channel)		
Part No	UTP-4231-C6A	Length(m)	100.
Test Started	12/17/2008 2:34:06 PM	Temperature	20 °C
Description	3 Connector Channel	Appendix	A
Operator Name	John Cash	Test Status	Complies





## Return Loss (Far End)

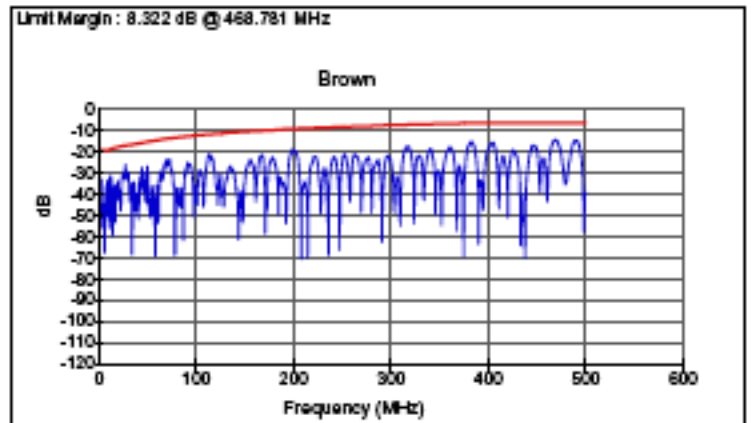
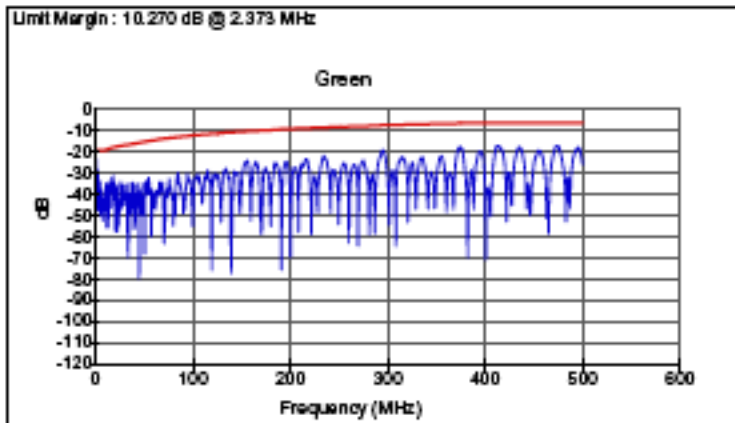
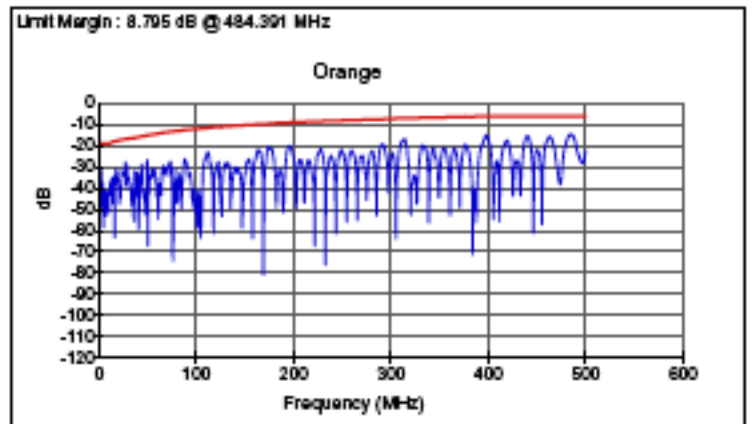
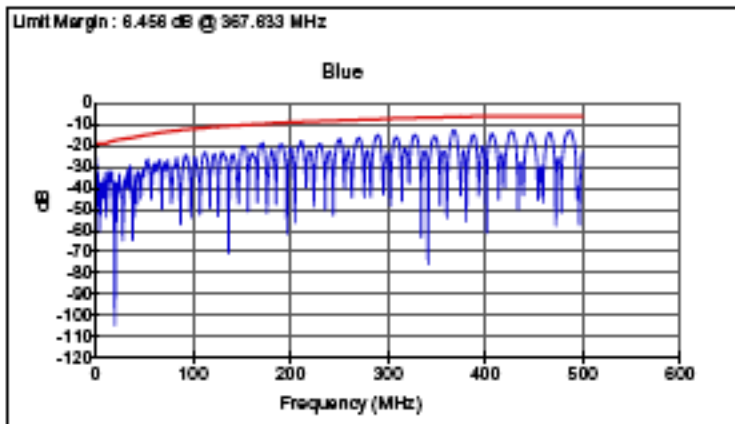
<b>Client</b>	Dan-Chief	<b>Project No</b>	3154740CRT-003b
<b>Specification</b>	TIA 568B2-10 - Augmented Cat 6 (Channel)	<b>Length(m)</b>	100.
<b>Part No</b>	UTP-4231-C6A	<b>Temperature</b>	20 °C
<b>Test Started</b>	12/17/2008 2:34:06 PM	<b>Appendix</b>	A
<b>Description</b>	3 Connector Channel	<b>Test Status</b>	Complies
<b>Operator Name</b>	John Cash		





## Return Loss (Near End)

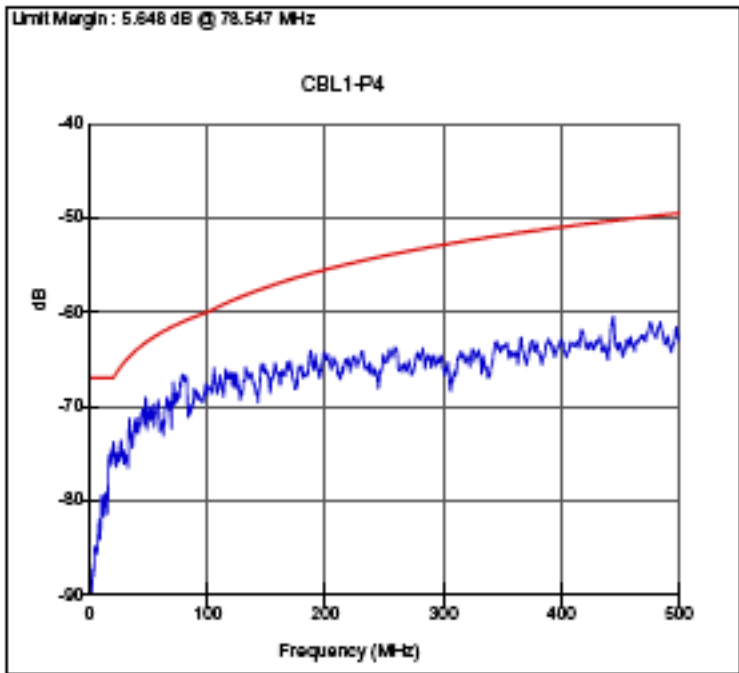
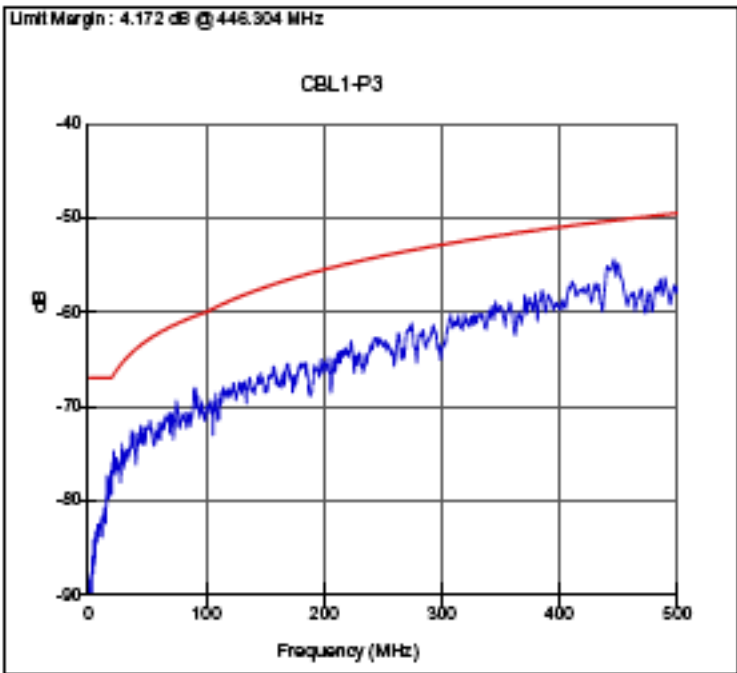
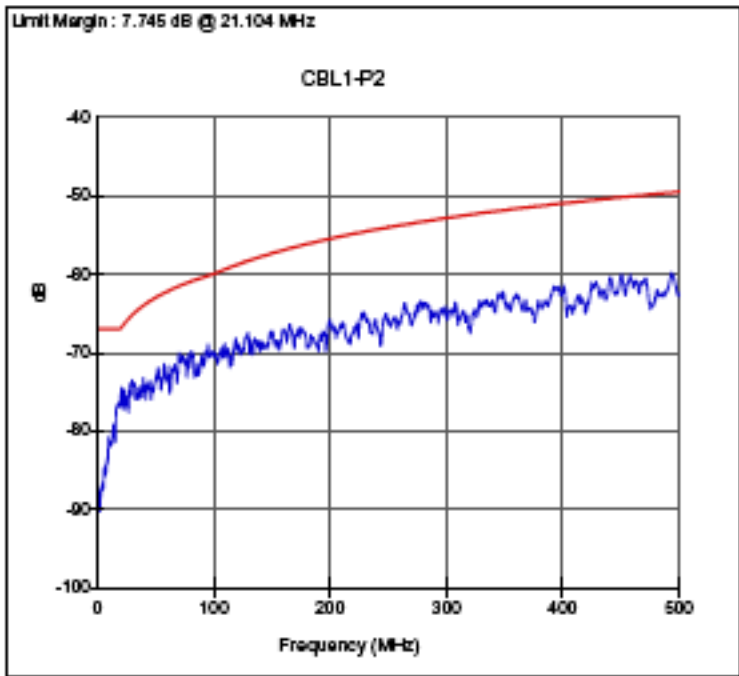
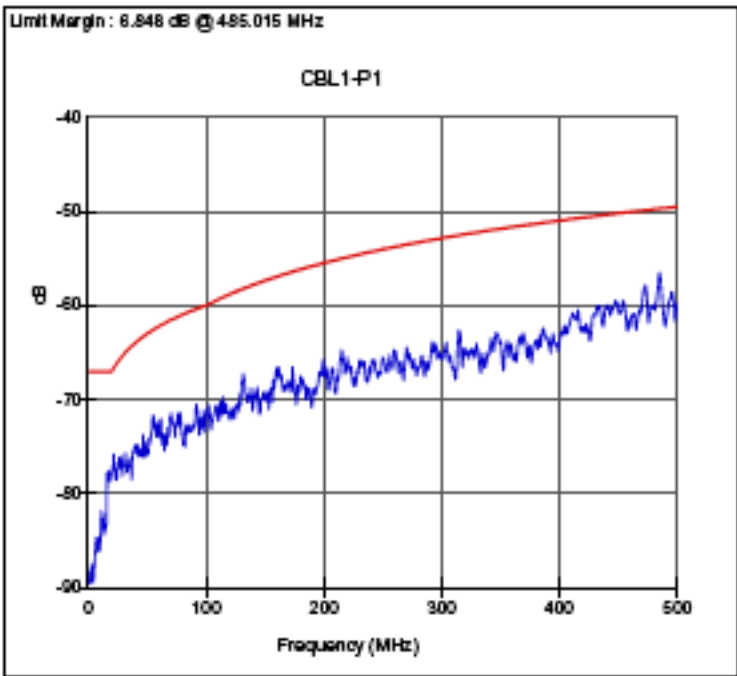
<b>Client</b>	Dan-Chief	<b>Project No</b>	3154740CRT-003b
<b>Specification</b>	TIA 568B2-10 - Augmented Cat 6 (Channel)	<b>Length(m)</b>	100.
<b>Part No</b>	UTP-4231-C6A	<b>Temperature</b>	20 °C
<b>Test Started</b>	12/17/2008 2:34:06 PM	<b>Appendix</b>	A
<b>Description</b>	3 Connector Channel	<b>Test Status</b>	Complies
<b>Operator Name</b>	John Cash		





## ANEXT (PowerSum) Near

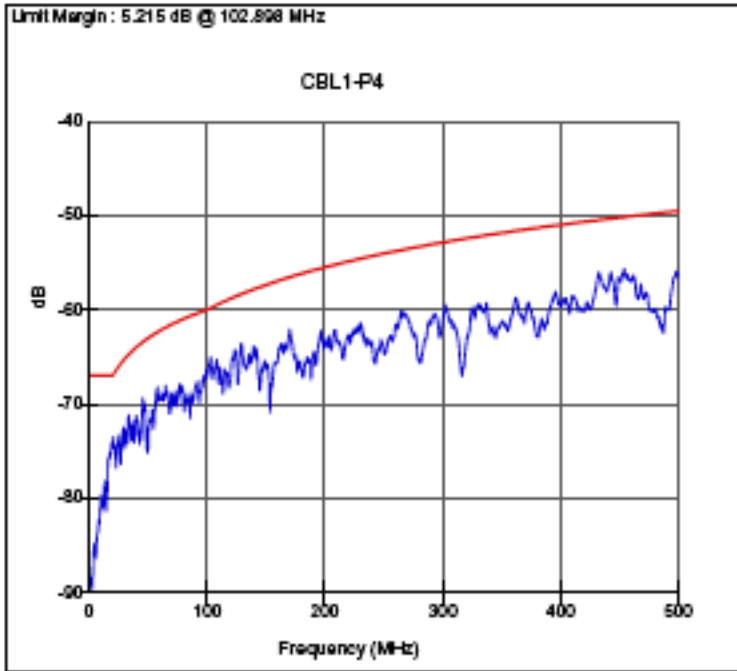
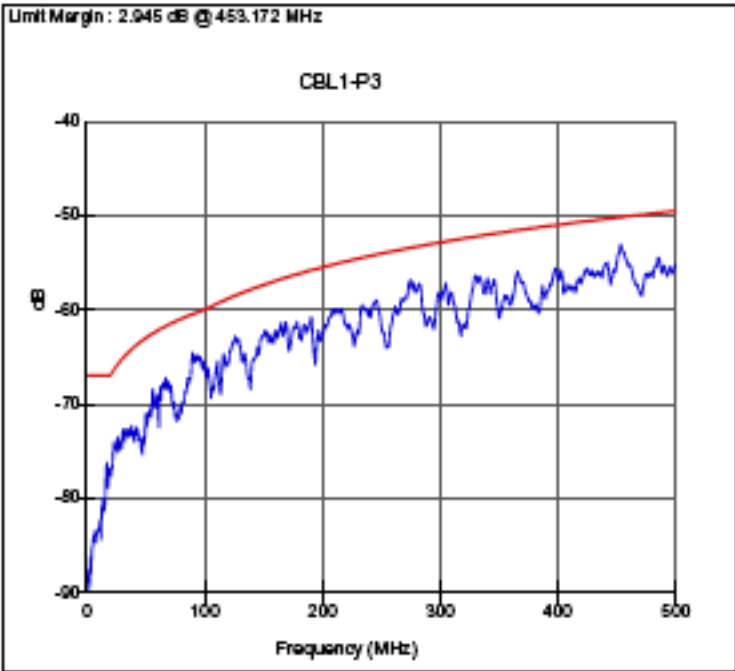
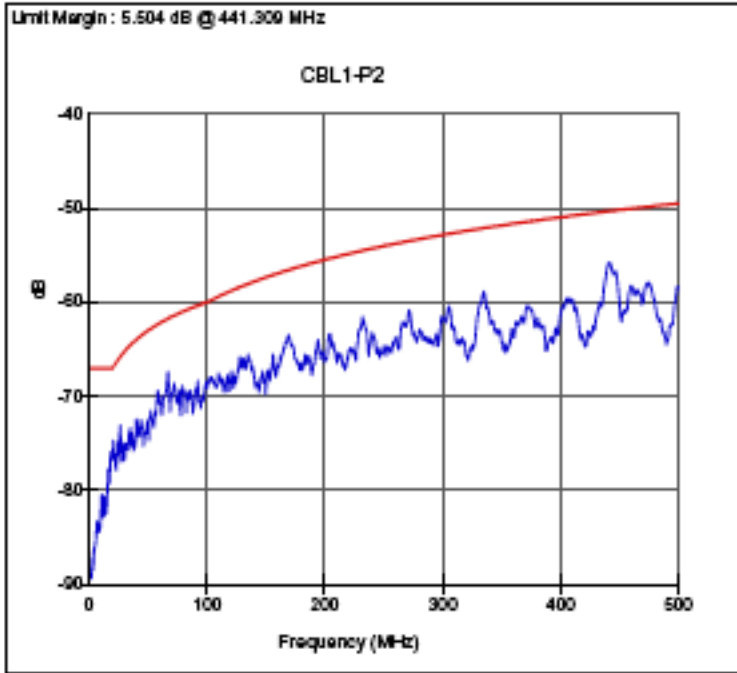
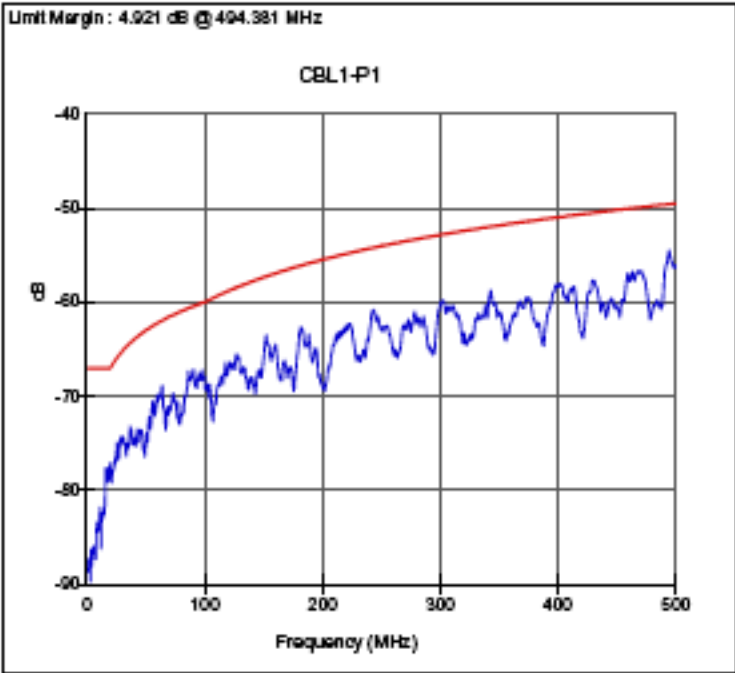
<b>Client</b>	Dan-Chief	<b>Project No</b>	3154740CRT-003b
<b>Specification</b>	TIA 568B2-10 - Augmented Cat 6 (Channel)	<b>Length(m)</b>	100.
<b>Part No</b>	UTP-4231-C6A	<b>Temperature</b>	20 °C
<b>Test Started</b>	12/17/2008 5:05:53 PM	<b>Appendix</b>	B
<b>Description</b>	3 Connector Channel	<b>Test Status</b>	Complies
<b>Operator Name</b>	Development		





## ANEXT (PowerSum) Far

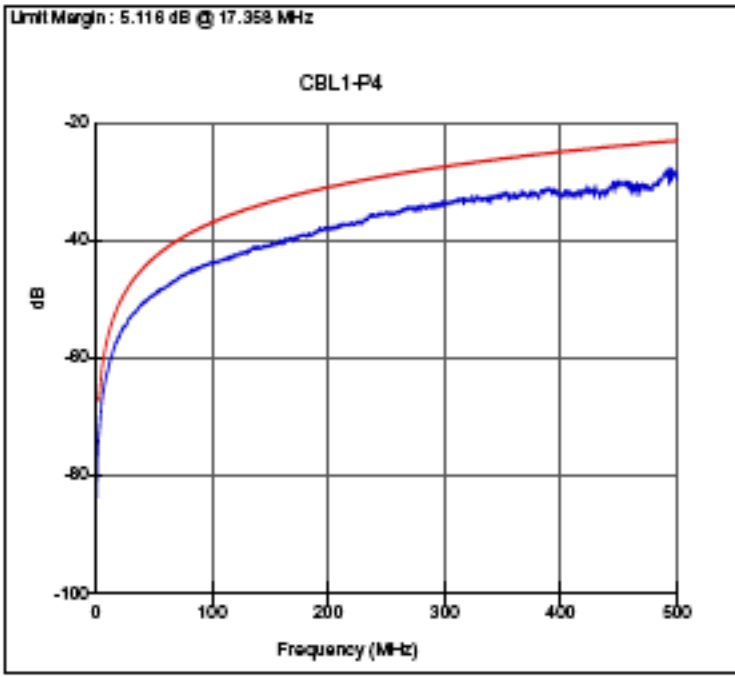
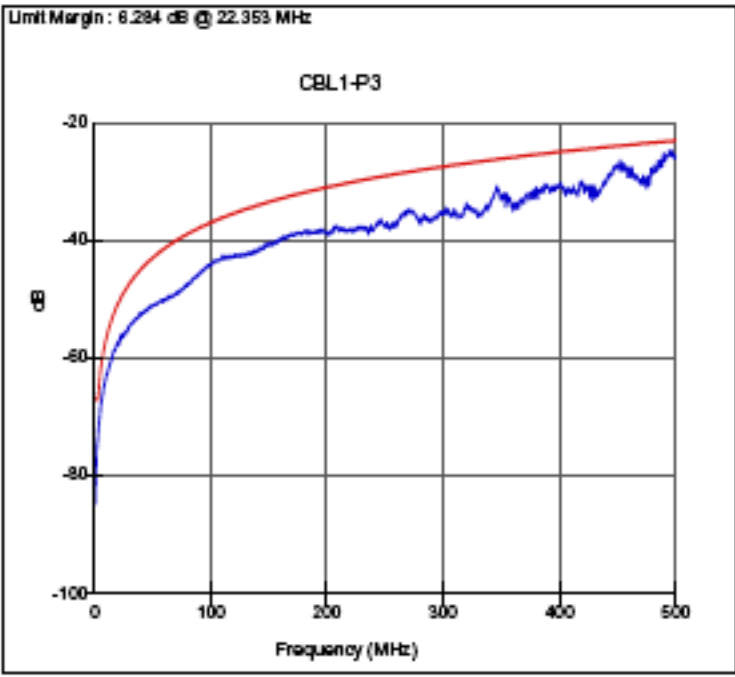
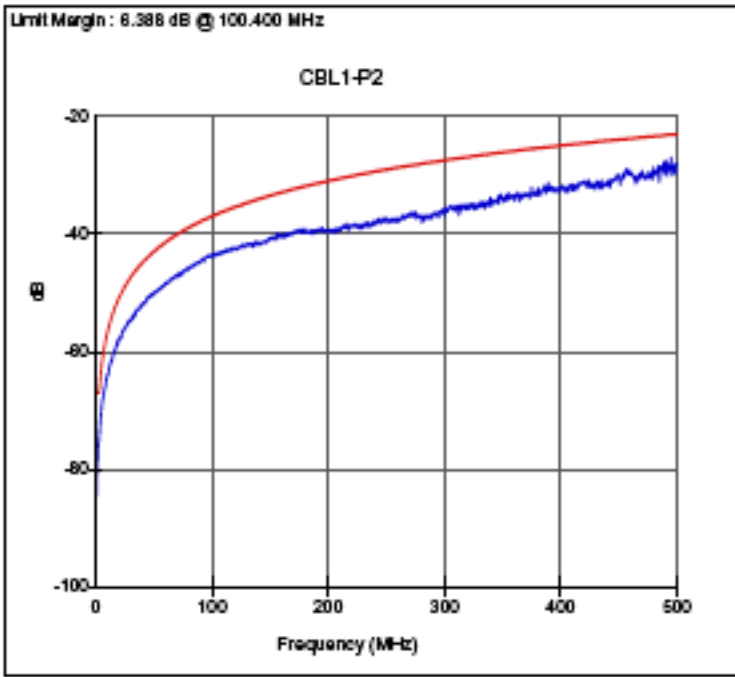
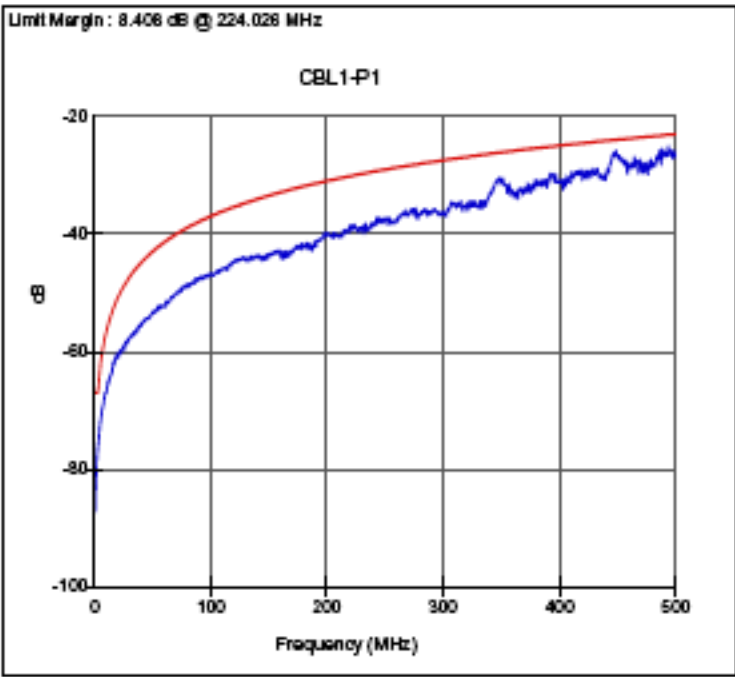
<b>Client</b>	Dan-Chief	<b>Project No</b>	3154740CRT-003b
<b>Specification</b>	TIA 568B2-10 - Augmented Cat 6 (Channel)	<b>Length(m)</b>	100.
<b>Part No</b>	UTP-4231-C6A	<b>Temperature</b>	20 °C
<b>Test Started</b>	12/17/2008 5:05:53 PM	<b>Appendix</b>	B
<b>Description</b>	3 Connector Channel	<b>Test Status</b>	Complies
<b>Operator Name</b>	Development		





PSAACRF Near

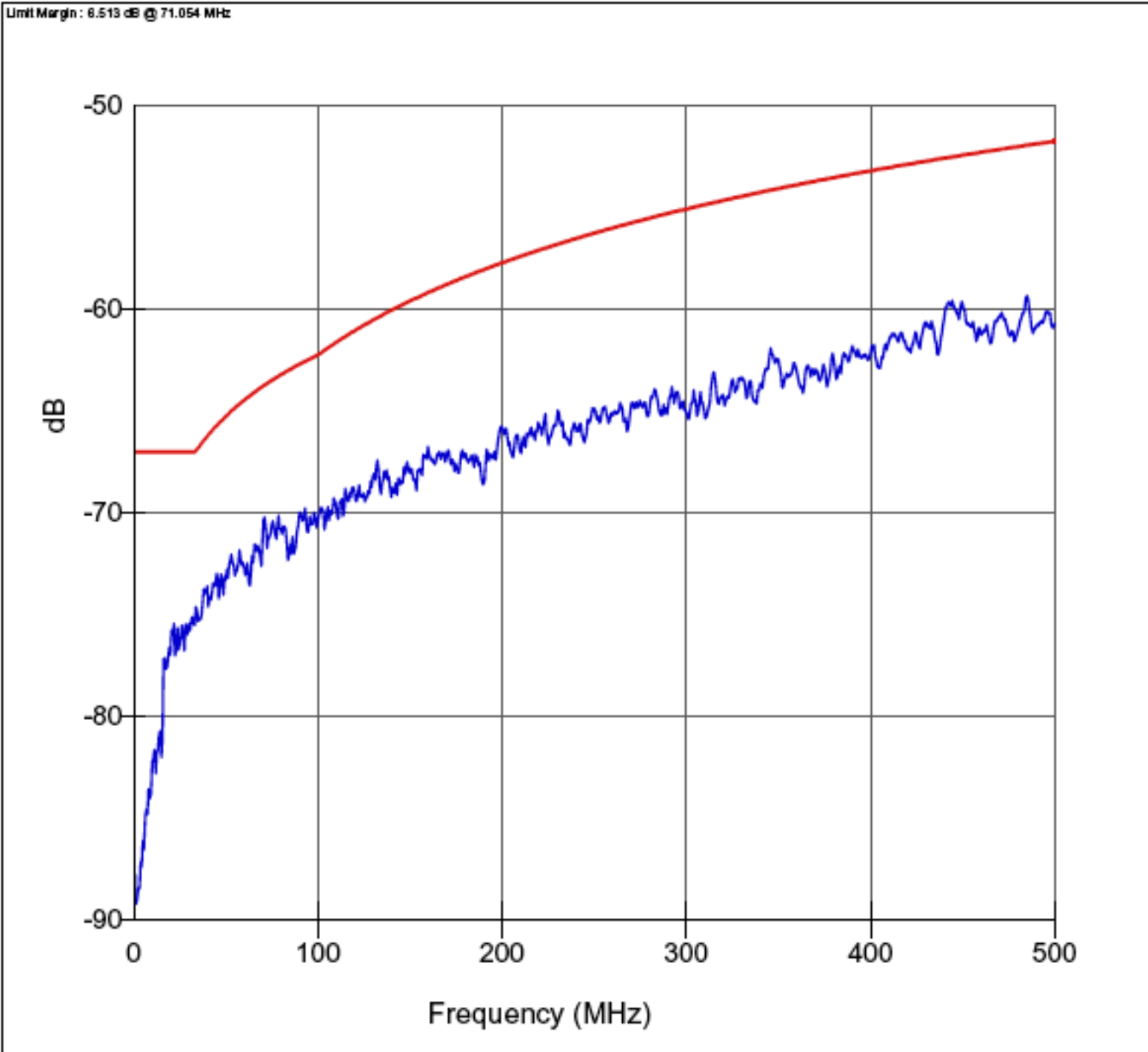
<b>Client</b>	Dan-Chief	<b>Project No</b>	3154740CRT-003b
<b>Specification</b>	TIA 568B2-10 - Augmented Cat 6 (Channel)	<b>Length(m)</b>	100.
<b>Part No</b>	UTP-4231-C6A	<b>Temperature</b>	20 °C
<b>Test Started</b>	12/17/2008 5:05:53 PM	<b>Appendix</b>	B
<b>Description</b>	3 Connector Channel	<b>Test Status</b>	Complies
<b>Operator Name</b>	Development		





**ANEXT (PowerSum Average) Near**

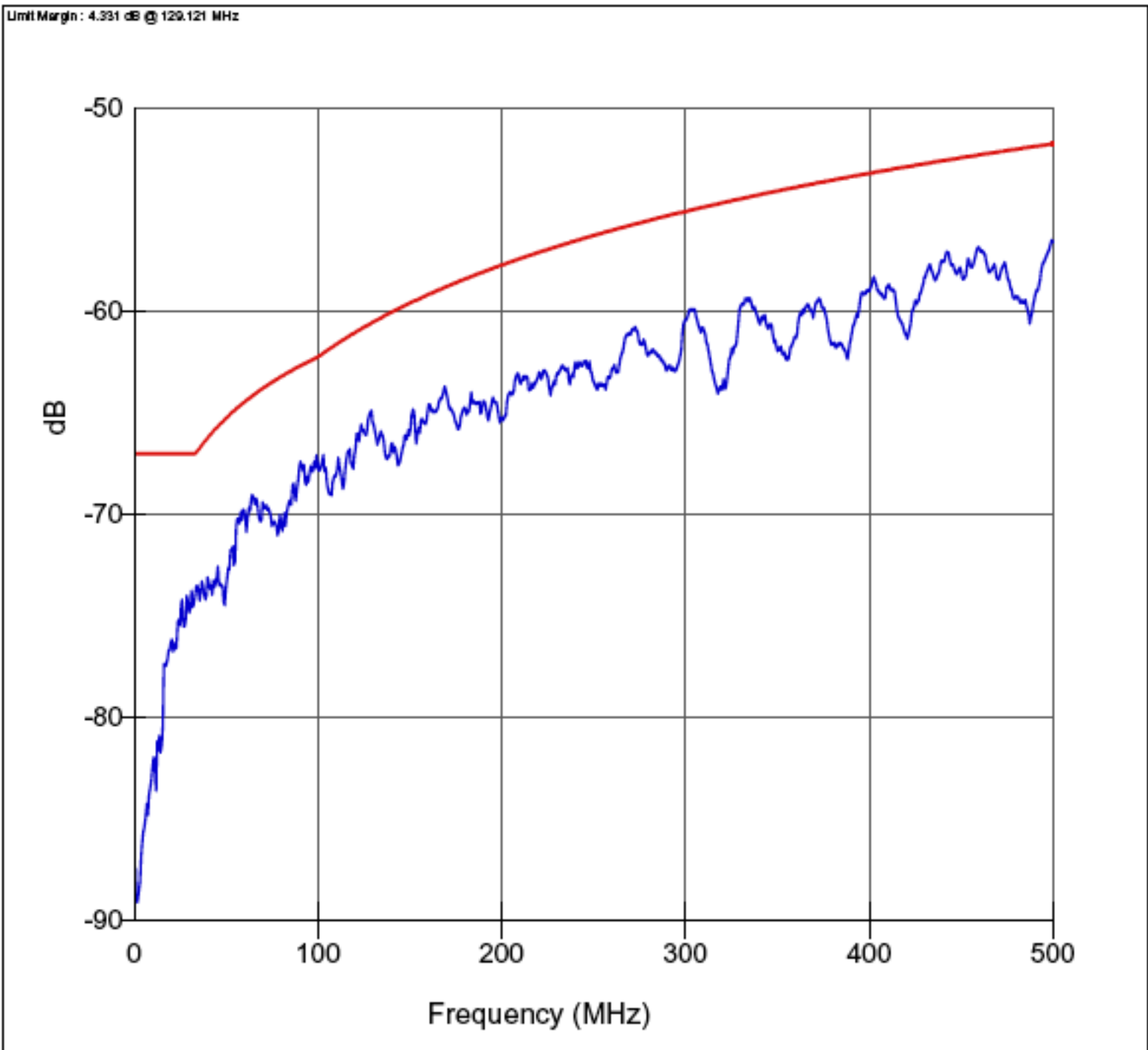
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<b>Specification</b>	TIA 568B2-10 - Augmented Cat 6 (Channel)		
<b>Part No</b>	UTP-4231-C6A	<b>Length(m)</b>	100.
<b>Test Started</b>	12/17/2008 5:05:53 PM	<b>Temperature</b>	20 °C
<b>Description</b>	3 Connector Channel	<b>Appendix</b>	B
<b>Operator Name</b>	Development	<b>Test Status</b>	Complies





**ANEXT (PowerSum Average) Far**

<b>Client</b>	Dan-Chief	<b>Project No</b>	3154740CRT-003b
<b>Specification</b>	TIA 568B2-10 - Augmented Cat 6 (Channel)		
<b>Part No</b>	UTP-4231-C6A	<b>Length(m)</b>	100.
<b>Test Started</b>	12/17/2008 5:05:53 PM	<b>Temperature</b>	20 °C
<b>Description</b>	3 Connector Channel	<b>Appendix</b>	B
<b>Operator Name</b>	Development	<b>Test Status</b>	Complies





PSAACRF (Average) Near

Client	Dan-Chief	Project No	3154740CRT-003b
Specification	TIA 568B2-10 - Augmented Cat 6 (Channel)		
Part No	UTP-4231-C6A	Length(m)	100.
Test Started	12/17/2008 5:05:53 PM	Temperature	20 °C
Description	3 Connector Channel	Appendix	B
Operator Name	Development	Test Status	Complies

