

# Ningbo Feynman Cable Co., Ltd

## LETTER REPORT

### SCOPE OF WORK

ETL Verification initial qualification testing of a 100 $\Omega$ , 4-pair telecommunication cable electrical transmission performance to the requirements of EN 50173-1 for Category 5e horizontal cable.

### REPORT NUMBER

103777015CRT-002c

### ISSUE DATE

26-December-2018

### REVISED DATE

None

### TESTS START DATE

18-December-2018

### TESTS END DATE

20-December-2018

### PAGES

4

### DOCUMENT CONTROL NUMBER

GFT-OP-10a (6-March-2017)

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## LETTER REPORT

26-December-2018

Intertek Report No. 103777015CRT-002c

Intertek Project No. G103777015

Mr. Shen Hongbing  
Ningbo Feynman Cable Co., Ltd  
No.9, Binhaisan Road, Hangzhou Bay New Zone  
Ningbo City, Zhejiang Province  
China

**Subject:** Initial qualification testing of Category 5e cable per EN 50288-3-1 as referenced in EN 50173-1

Dear Mr. Hongbing:

This letter report represents the results of our evaluation of the above referenced product to the requirements contained in the following document(s):

*EN 50173-1, Information technology - Generic cabling systems - Part 1: General Requirements, dated June 2018*

*EN 50288-3-1: Multi-element metallic cables used in analogue and digital communication and control -- Part 3-1: Sectional specification for unscreened cables characterised up to 100 MHz - Horizontal and building backbone cables, dated May 2013*

### SECTION 1 SUMMARY

Intertek wishes to inform you that the electrical transmission tests have been performed on your cable. This testing was performed under project G103777015 and quotation QSH180802067 issued 27-November-2018. Compliant results were obtained for the relevant tests contained in EN 50288-3-1 section 5.1 for horizontal cable transmission performance.

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**SECTION 2**  
**NON-CONFORMANCES**

None

**SECTION 3**  
**TESTING**

The tables below represent a summary of the tests and results. The detailed test data is enclosed to this letter report.

Test description	EN 50288-3-1 section	Result
Conductor loop resistance	5.1.1.1	Compliant
Conductor resistance unbalance	5.1.1.2	Compliant
Dielectric strength	5.1.1.3	Not tested
Insulation resistance	5.1.1.4	Not tested
Mutual capacitance	5.1.1.5	Not specified
Capacitance unbalance to earth	5.1.1.6	Compliant
Velocity of propagation	5.1.2.1	Compliant
Propagation delay difference (skew)	5.1.2.2	Compliant
Longitudinal attenuation	5.1.2.3	Compliant
Near-end unbalance attenuation	5.1.2.4	Compliant
Near-end crosstalk (NEXT)	5.1.2.5	Compliant
Attenuation to crosstalk ratio at the far end (ACR-F)	5.1.2.6	Compliant
Power sum near-end crosstalk (PSNEXT)	5.1.2.7.1	Compliant
Power sum attenuation to crosstalk ratio at the far end (PSACR-F)	5.1.2.7.2	Compliant
Mean characteristic impedance	5.1.2.8	Compliant
Return loss	5.1.2.9	Compliant
Coupling attenuation	5.1.2.10	Not applicable

Test equipment used	Model number	Control number	Calibration due date
Keysight Network Analyzer	E5080A	J387	06-December-2019
Keysight LCR Meter	4263B	R171	29-January-2019
Temperature/humidity meter	OM-EL-USB-2-LCD	H243	19-March-2019
Environmental chamber	Bally	3069	02-May-2019

## SECTION 4

### SAMPLE DESCRIPTION

The client submitted a Category 5e, 4-Pair, 24 AWG, U/UTP, CM, horizontal (solid) cable identified as part number FA0424AUC5EV.

The sample was received on 26-November-2018 and was a production sample in undamaged condition.

## SECTION 5

### PROJECT STATUS & ACTION

Issuance of this letter report completes the initial qualification testing of this cable electrical transmission performance per EN 50173-1 covered by Intertek Project No. G103777015 and quotation QSH180802067. The test results are compliant with the requirements of the standard and sections referred to on pages 2 and 3. The testing was performed at Intertek located in Cortland, NY.

If there are any questions regarding the results contained in this report, or any of the other services offered by Intertek, please do not hesitate to contact your dedicated Intertek Project Manager.

Completed by:	David Ayers	Reviewed by:	Antoine Pelletier
Title:	Technician	Title:	Project Engineer
Signature:		Signature:	
Date:	<u>26-December-2018</u>	Date:	<u>26-December-2018</u>

Please note: this Letter Report does not represent authorization for the use of any Intertek certification marks.



## Low Frequency Report

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies

### DC Resistance (Ohms)

Blue	Orange	Green	Brown	Limit (Ohms)
8.6763	8.6383	8.7666	8.5934	9.5000
8.7069	8.6697	8.7518	8.5777	9.5000

### Resistance Unbalanced (%)

Blue	Orange	Green	Brown	Limit (%)
0.18	0.18	0.08	0.09	2.00

### Resistance Unbalanced Pair-Pair (%)

Blue - Orange	Blue - Green	Blue - Brown	Orange - Green	Orange - Brown	Green - Brown	Limit (%)
0.22	0.39	0.61	0.60	0.40	1.00	

### Capacitance Unbalance Pair-Ground (pF/100m)

Blue	Orange	Green	Brown	Limit (PF/100m)
12.93	3.71	18.98	1.62	120.00

### Mutual Capacitance (nF/100m)

Blue	Orange	Green	Brown	Limit (nF/100m)
4.65	4.59	4.73	4.56	



## Insertion Loss

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies

Insertion Loss (dB)					
Freq (MHz)	Limit	Blue	Orange	Green	Brown
1.		-1.86	-1.90	-1.90	-1.86
4.		-3.74	-3.76	-3.80	-3.69
8.	-5.65	-5.31	-5.31	-5.39	-5.23
10.	-6.33	-5.95	-5.94	-6.04	-5.86
16.	-8.05	-7.56	-7.54	-7.67	-7.46
20.	-9.03	-8.47	-8.45	-8.59	-8.36
25.	-10.15	-9.50	-9.47	-9.64	-9.37
31.25	-11.41	-10.65	-10.61	-10.81	-10.51
62.5	-16.52	-15.21	-15.16	-15.42	-15.03
100.	-21.35	-19.36	-19.27	-19.64	-19.13



## NEXT - Near End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies

NEXT - Near End (dB)							
Freq (MHz)	Limit	Blue - Orange	Blue - Green	Blue - Brown	Orange - Green	Orange - Brown	Green - Brown
1.	-65.22	-84.33	-86.40	-81.57	-83.50	-101.81	-80.90
4.	-56.27	-81.93	-77.48	-87.49	-84.11	-87.85	-73.41
8.	-51.75	-66.31	-79.27	-66.55	-68.16	-84.97	-75.56
10.	-50.30	-68.11	-66.60	-72.72	-68.06	-76.13	-80.40
16.	-47.24	-73.28	-76.92	-64.65	-60.02	-82.67	-63.55
20.	-45.78	-62.58	-66.14	-64.47	-56.00	-75.33	-68.09
25.	-44.33	-65.42	-63.46	-65.25	-69.50	-85.11	-62.78
31.25	-42.88	-61.15	-70.89	-57.22	-50.63	-61.86	-55.60
62.5	-38.36	-56.64	-62.71	-53.71	-52.34	-62.57	-53.73
100.	-35.30	-58.78	-69.21	-53.53	-48.54	-59.38	-67.99

## NEXT - Far End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies

NEXT - Far End (dB)							
Freq (MHz)	Limit	Blue - Orange	Blue - Green	Blue - Brown	Orange - Green	Orange - Brown	Green - Brown
1.	-65.22	-85.84	-86.53	-81.46	-85.44	-107.19	-81.81
4.	-56.27	-87.67	-81.52	-82.02	-71.60	-93.89	-79.03
8.	-51.75	-67.19	-77.37	-68.02	-65.95	-73.60	-78.64
10.	-50.30	-67.77	-72.14	-76.90	-71.36	-73.13	-72.38
16.	-47.24	-68.59	-73.19	-65.81	-62.28	-79.28	-66.82
20.	-45.78	-65.44	-71.75	-61.94	-60.17	-74.64	-63.01
25.	-44.33	-65.21	-66.86	-56.25	-66.97	-70.41	-62.21
31.25	-42.88	-63.84	-78.19	-56.84	-54.07	-70.63	-59.64
62.5	-38.36	-60.21	-66.58	-62.07	-57.55	-78.86	-54.99
100.	-35.30	-53.56	-54.27	-49.46	-54.29	-59.60	-51.70





## PSNEXT - Near End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies

PSNEXT - Near End (dB)					
Freq (MHz)	Limit	Blue	Orange	Green	Brown
1.	-62.22	-78.88	-80.84	-78.27	-78.19
4.	-53.27	-75.77	-79.13	-71.70	-73.06
8.	-48.75	-63.30	-64.08	-67.14	-65.98
10.	-47.30	-63.68	-64.72	-64.14	-70.38
16.	-44.24	-63.86	-59.80	-58.36	-61.01
20.	-42.78	-59.38	-55.10	-55.36	-62.65
25.	-41.33	-59.84	-63.95	-59.63	-60.81
31.25	-39.88	-55.61	-49.97	-49.40	-52.75
62.5	-35.36	-51.57	-50.67	-49.75	-50.43
100.	-32.30	-52.30	-47.83	-48.46	-52.40



## PSNEXT - Far End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
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<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies

PSNEXT - Far End (dB)					
Freq (MHz)	Limit	Blue	Orange	Green	Brown
1.	-62.22	-79.22	-82.60	-79.33	-78.61
4.	-53.27	-78.10	-71.45	-70.51	-77.08
8.	-48.75	-64.34	-63.10	-65.43	-66.66
10.	-47.30	-66.01	-65.36	-67.13	-68.82
16.	-44.24	-63.46	-61.30	-60.70	-63.11
20.	-42.78	-60.03	-58.91	-58.15	-59.30
25.	-41.33	-55.41	-62.27	-59.97	-55.14
31.25	-39.88	-56.02	-53.55	-53.00	-54.88
62.5	-35.36	-57.42	-55.64	-52.86	-54.19
100.	-32.30	-47.10	-50.35	-48.47	-47.17



## ACR - Near End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies

ACR - Near End (dB)							
Freq (MHz)	Limit	Blue - Orange	Blue - Green	Blue - Brown	Orange - Green	Orange - Brown	Green - Brown
1.	63.08	82.44	84.50	79.71	81.59	99.96	79.04
4.	52.26	78.17	73.67	83.80	80.30	84.17	69.73
8.	46.10	61.00	73.88	61.32	62.77	79.74	70.33
10.	43.97	62.16	60.56	66.86	62.03	70.26	74.54
16.	39.19	65.75	69.25	57.19	52.35	75.21	56.10
20.	36.75	54.13	57.55	56.11	47.41	66.97	59.73
25.	34.18	55.95	53.83	55.88	59.86	75.73	53.41
31.25	31.47	50.54	60.08	46.71	39.82	51.35	45.09
62.5	21.84	41.48	47.28	38.68	36.92	47.55	38.71
100.	13.95	39.51	49.57	34.40	28.90	40.25	48.86



## ACR - Far End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies

ACR - Far End (dB)							
Freq (MHz)	Limit	Blue - Orange	Blue - Green	Blue - Brown	Orange - Green	Orange - Brown	Green - Brown
1.	63.08	83.94	84.63	79.60	83.53	105.34	79.96
4.	52.26	83.92	77.72	78.34	67.79	90.20	75.35
8.	46.10	61.88	71.97	62.79	60.56	68.37	73.41
10.	43.97	61.83	66.11	71.04	65.32	67.27	66.51
16.	39.19	61.05	65.52	58.35	54.61	71.83	59.37
20.	36.75	57.00	63.16	53.59	51.58	66.29	54.66
25.	34.18	55.75	57.23	46.89	57.35	61.05	52.85
31.25	31.47	53.24	67.39	46.34	43.27	60.14	49.14
62.5	21.84	45.10	51.19	47.08	42.15	63.87	40.00
100.	13.95	34.31	34.63	30.33	34.65	40.47	32.57



## PSACR - Near End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
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<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies

PSACR - Near End (dB)					
Freq (MHz)	Limit	Blue	Orange	Green	Brown
1.	60.08	77.02	78.95	76.36	76.33
4.	49.26	72.03	75.37	67.90	69.38
8.	43.10	57.99	58.77	61.75	60.74
10.	40.97	57.73	58.78	58.10	64.52
16.	36.19	56.30	52.26	50.70	53.56
20.	33.75	50.91	46.65	46.77	54.29
25.	31.18	50.35	54.49	49.99	51.44
31.25	28.47	44.96	39.36	38.59	42.24
62.5	18.84	36.37	35.52	34.32	35.41
100.	10.95	32.95	28.57	28.81	33.27



## PSACR - Far End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
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<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies

PSACR - Far End (dB)					
Freq (MHz)	Limit	Blue	Orange	Green	Brown
1.	60.08	77.36	80.71	77.42	76.76
4.	49.26	74.36	67.70	66.71	73.40
8.	43.10	59.03	57.80	60.04	61.43
10.	40.97	60.06	59.42	61.09	62.96
16.	36.19	55.91	53.76	53.04	55.66
20.	33.75	51.57	50.47	49.56	50.95
25.	31.18	45.92	52.81	50.34	45.78
31.25	28.47	45.38	42.95	42.20	44.38
62.5	18.84	42.23	40.53	37.47	39.20
100.	10.95	27.75	31.10	28.83	28.04



## FEXT - Near End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
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<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies

FEXT - Near End (dB)												
f (MHz)	1-2	1-3	1-4	2-1	2-3	2-4	3-1	3-2	3-4	4-1	4-2	4-3
1.	-89.76	-83.32	-93.12	-90.98	-109.19	-99.19	-83.46	-98.84	-92.77	-92.08	-100.63	-92.86
4.	-81.32	-74.10	-78.51	-81.02	-87.99	-91.79	-73.89	-91.25	-78.44	-78.89	-90.30	-78.70
8.	-76.62	-69.74	-72.08	-76.27	-86.53	-84.28	-69.66	-96.01	-74.91	-72.22	-84.77	-75.69
10.	-75.50	-68.11	-71.70	-75.25	-84.55	-85.17	-67.91	-87.64	-73.38	-72.50	-84.16	-74.02
16.	-72.77	-66.40	-70.55	-72.95	-82.60	-81.67	-66.54	-91.88	-70.85	-70.36	-80.57	-72.05
20.	-71.34	-65.41	-69.08	-71.95	-77.39	-80.44	-65.30	-80.73	-70.58	-69.50	-79.15	-70.95
25.	-70.70	-64.52	-68.34	-70.43	-80.77	-80.40	-64.84	-79.37	-71.85	-68.37	-80.29	-71.23
31.25	-70.06	-63.90	-68.82	-70.73	-74.84	-78.89	-63.90	-77.15	-71.79	-69.14	-81.84	-72.37
62.5	-66.95	-63.41	-70.19	-66.65	-71.72	-75.90	-63.21	-71.85	-71.80	-70.21	-78.96	-71.25
100.	-64.69	-65.81	-66.33	-64.17	-67.76	-77.66	-66.18	-68.15	-67.40	-65.71	-76.86	-67.65

## FEXT - Far End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
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<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies

FEXT - Far End (dB)												
f (MHz)	1-2	1-3	1-4	2-1	2-3	2-4	3-1	3-2	3-4	4-1	4-2	4-3
1.	-89.67	-83.73	-91.74	-90.24	-102.41	-104.31	-83.76	-102.46	-92.12	-92.41	-100.03	-94.08
4.	-81.44	-73.76	-78.63	-81.14	-90.81	-91.34	-73.92	-88.68	-78.56	-78.39	-91.28	-78.40
8.	-76.24	-69.57	-72.14	-76.44	-93.63	-85.03	-69.78	-86.31	-75.60	-72.26	-83.82	-74.90
10.	-75.31	-67.89	-72.42	-75.32	-87.89	-83.75	-68.13	-84.68	-74.06	-71.93	-85.45	-73.32
16.	-72.96	-66.46	-70.38	-72.67	-91.40	-80.60	-66.48	-83.02	-72.02	-70.53	-81.85	-70.82
20.	-71.95	-65.20	-69.45	-71.20	-80.92	-78.97	-65.44	-77.53	-71.00	-69.12	-80.71	-70.52
25.	-70.42	-64.78	-68.27	-70.59	-79.26	-80.54	-64.64	-81.35	-71.27	-68.38	-80.57	-71.85
31.25	-70.76	-63.84	-69.16	-69.86	-77.03	-81.86	-63.90	-75.04	-72.43	-68.82	-79.09	-71.70
62.5	-66.64	-63.09	-70.12	-66.92	-71.62	-78.91	-63.54	-71.72	-71.25	-70.17	-76.11	-71.67
100.	-64.22	-66.13	-65.73	-64.58	-68.02	-76.78	-65.81	-67.80	-67.67	-66.36	-77.71	-67.34





## ACRF (ELFEXT) - Near End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies

ACRF (ELFEXT) - Near End (dB)													
f (MHz)	Limit	1-2	1-3	1-4	2-1	2-3	2-4	3-1	3-2	3-4	4-1	4-2	4-3
1.	-63.90	-87.86	-81.41	-91.26	-89.12	-107.28	-97.33	-81.60	-96.94	-90.92	-90.22	-98.73	-90.96
4.	-51.96	-77.56	-70.29	-74.82	-77.28	-84.19	-88.11	-70.15	-87.49	-74.76	-75.15	-86.55	-74.89
8.	-45.94	-71.31	-64.35	-66.85	-70.97	-81.14	-79.05	-64.35	-90.70	-69.68	-66.91	-79.46	-70.30
10.	-44.00	-69.56	-62.07	-65.84	-69.31	-78.51	-79.31	-61.97	-81.70	-67.52	-66.55	-78.21	-67.98
16.	-39.92	-65.23	-58.74	-63.10	-65.39	-74.94	-74.22	-58.98	-84.34	-63.39	-62.80	-73.03	-64.39
20.	-37.98	-62.89	-56.82	-60.73	-63.48	-68.79	-72.08	-56.83	-72.28	-62.22	-61.03	-70.70	-62.35
25.	-36.04	-61.24	-54.88	-58.97	-60.94	-71.13	-71.03	-55.34	-69.90	-62.48	-58.87	-70.82	-61.60
31.25	-34.10	-59.45	-53.09	-58.31	-60.08	-64.03	-68.38	-53.25	-66.54	-61.28	-58.49	-71.23	-61.56
62.5	-28.08	-51.79	-47.99	-55.16	-51.44	-56.30	-60.88	-48.01	-56.70	-56.77	-55.00	-63.80	-55.82
100.	-24.00	-45.43	-46.17	-47.20	-44.81	-48.12	-58.53	-46.82	-48.88	-48.27	-46.35	-57.59	-48.01



## ACRF (ELFEXT) - Far End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies

ACRF (ELFEXT) - Far End (dB)													
f (MHz)	Limit	1-2	1-3	1-4	2-1	2-3	2-4	3-1	3-2	3-4	4-1	4-2-3	
1.	-63.90	-87.77	-81.83	-89.88	-88.38	-100.50	-102.45	-81.90	-100.56	-90.27	-90.55	-98.14	-92.17
4.	-51.96	-77.69	-69.95	-74.95	-77.40	-87.01	-87.66	-70.19	-84.92	-74.88	-74.65	-87.53	-74.60
8.	-45.94	-70.93	-64.18	-66.91	-71.13	-88.24	-79.80	-64.47	-81.00	-70.37	-66.95	-78.52	-69.51
10.	-44.00	-69.37	-61.85	-66.55	-69.37	-81.85	-77.89	-62.18	-78.74	-68.20	-65.98	-79.51	-67.29
16.	-39.92	-65.42	-58.79	-62.92	-65.11	-83.74	-73.15	-58.93	-75.49	-64.57	-62.97	-74.31	-63.15
20.	-37.98	-63.51	-56.61	-61.10	-62.74	-72.33	-70.62	-56.98	-69.10	-62.65	-60.66	-72.27	-61.93
25.	-36.04	-60.97	-55.15	-58.91	-61.10	-69.63	-71.18	-55.15	-71.90	-61.91	-58.89	-71.11	-62.23
31.25	-34.10	-60.16	-53.04	-58.66	-59.22	-66.23	-71.36	-53.26	-64.45	-61.93	-58.18	-68.49	-60.90
62.5	-28.08	-51.53	-47.70	-55.13	-51.73	-56.23	-63.92	-48.35	-56.61	-56.26	-54.98	-61.00	-56.28
100.	-24.00	-44.97	-46.49	-46.60	-45.23	-48.38	-57.65	-46.45	-48.55	-48.54	-47.00	-58.45	-47.70



## PSFEXT - Near End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies

PSFEXT - Near End (dB)				
Freq (MHz)	Blue	Orange	Green	Brown
1.	-82.07	-90.31	-82.86	-89.12
4.	-72.19	-79.93	-72.53	-75.63
8.	-67.22	-75.29	-68.52	-70.44
10.	-66.01	-74.39	-66.79	-70.01
16.	-64.32	-72.00	-65.16	-67.87
20.	-63.15	-70.40	-64.08	-66.88
25.	-62.33	-69.67	-63.92	-66.38
31.25	-61.95	-68.85	-63.07	-67.30
62.5	-61.23	-65.10	-62.16	-67.37
100.	-60.79	-62.46	-62.39	-63.37



## PSFEXT - Far End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies

PSFEXT - Far End (dB)				
Freq (MHz)	Blue	Orange	Green	Brown
1.	-82.23	-89.82	-83.12	-89.73
4.	-72.01	-80.34	-72.53	-75.27
8.	-67.09	-75.80	-68.69	-70.18
10.	-66.03	-74.53	-67.07	-69.45
16.	-64.34	-71.97	-65.34	-67.50
20.	-63.19	-70.15	-64.17	-66.58
25.	-62.42	-69.66	-63.71	-66.59
31.25	-62.09	-68.87	-63.05	-66.75
62.5	-60.94	-65.45	-62.33	-67.24
100.	-60.51	-62.78	-62.22	-63.64



## PSACRF (PSELFEXT) - Near End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies

PSACRF (PSELFEXT) - Near End (dB)					
Freq (MHz)	Limit	Blue	Orange	Green	Brown
1.	-60.90	-80.21	-88.42	-80.96	-87.26
4.	-48.96	-68.45	-76.18	-68.72	-71.94
8.	-42.94	-61.91	-69.99	-63.13	-65.21
10.	-41.00	-60.07	-68.45	-60.76	-64.15
16.	-36.92	-56.76	-64.46	-57.49	-60.42
20.	-34.98	-54.68	-61.95	-55.49	-58.53
25.	-33.04	-52.83	-60.20	-54.29	-57.01
31.25	-31.10	-51.30	-58.24	-52.26	-56.79
62.5	-25.08	-46.03	-49.94	-46.73	-52.35
100.	-21.00	-41.43	-43.19	-42.75	-44.24



## PSACRF (PSELFEXT) - Far End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies

PSACRF (PSELFEXT) - Far End (dB)					
Freq (MHz)	Limit	Blue	Orange	Green	Brown
1.	-60.90	-80.37	-87.92	-81.21	-87.87
4.	-48.96	-68.27	-76.58	-68.73	-71.59
8.	-42.94	-61.79	-70.49	-63.30	-64.95
10.	-41.00	-60.08	-68.59	-61.03	-63.59
16.	-36.92	-56.78	-64.44	-57.67	-60.04
20.	-34.98	-54.73	-61.71	-55.58	-58.23
25.	-33.04	-52.93	-60.21	-54.08	-57.23
31.25	-31.10	-51.45	-58.27	-52.25	-56.25
62.5	-25.08	-45.75	-50.34	-46.94	-52.25
100.	-21.00	-41.15	-43.53	-42.58	-44.51

## Impedance - Near End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies

Impedance - Near End (ohms)				
Freq (MHz)	Blue	Orange	Green	Brown
1.	103.80	103.95	103.30	102.64
4.	101.94	102.00	101.66	101.03
8.	101.59	101.97	101.09	101.39
10.	101.69	102.14	101.40	101.80
16.	101.98	103.18	101.23	103.50
20.	101.45	102.84	100.71	102.05
25.	101.67	102.03	100.83	100.97
31.25	101.84	101.53	101.00	100.98
62.5	103.05	102.66	100.33	102.08
100.	100.79	101.56	99.74	101.08

## Impedance - Far End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies

Impedance - Far End (ohms)				
Freq (MHz)	Blue	Orange	Green	Brown
1.	102.97	104.13	103.08	102.19
4.	101.82	103.28	102.12	102.21
8.	101.18	102.86	101.84	101.95
10.	101.50	103.42	101.38	103.18
16.	102.24	104.42	101.63	104.38
20.	102.55	105.02	102.30	104.18
25.	102.50	104.68	102.02	103.56
31.25	101.64	103.28	101.47	102.83
62.5	101.25	103.71	101.91	103.53
100.	101.03	103.64	102.12	103.78





## Fitted Impedance - Near End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies

Fitted Impedance - Near End (ohms)				
Freq (MHz)	Blue	Orange	Green	Brown
1.	107.11	106.72	105.68	107.04
4.	103.36	103.72	102.66	103.73
8.	102.51	102.99	101.86	102.73
10.	102.31	102.81	101.67	102.48
16.	101.97	102.50	101.31	102.02
20.	101.84	102.39	101.18	101.84
25.	101.73	102.29	101.06	101.68
31.25	101.64	102.20	100.95	101.54
62.5	101.40	101.98	100.69	101.17
100.	101.29	101.87	100.55	100.99



## Fitted Impedance - Far End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies

Fitted Impedance - Far End (ohms)				
Freq (MHz)	Blue	Orange	Green	Brown
1.	105.91	107.83	105.45	106.57
4.	103.06	104.89	102.63	103.96
8.	102.42	104.31	102.29	103.57
10.	102.27	104.19	102.24	103.50
16.	102.01	103.98	102.18	103.39
20.	101.92	103.91	102.17	103.36
25.	101.83	103.85	102.17	103.34
31.25	101.76	103.79	102.17	103.32
62.5	101.59	103.67	102.20	103.30
100.	101.50	103.62	102.22	103.29



## Return Loss - Near End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies

Return Loss - Near End (dB)					
Freq (MHz)	Limit	Blue	Orange	Green	Brown
1.		-34.66	-34.31	-35.88	-37.85
4.		-40.56	-40.25	-42.05	-46.25
8.	-24.52	-42.13	-40.23	-45.69	-43.20
10.	-24.99	-41.57	-39.51	-43.23	-41.17
16.	-25.00	-40.24	-36.13	-44.30	-35.33
20.	-25.00	-42.87	-37.08	-49.09	-39.88
25.	-24.32	-41.64	-39.98	-47.70	-46.38
31.25	-23.64	-40.80	-42.39	-46.10	-46.26
62.5	-21.54	-36.49	-37.63	-55.93	-39.77
100.	-20.11	-48.08	-42.24	-57.64	-45.39



## Return Loss - Far End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies

Return Loss - Far End (dB)					
Freq (MHz)	Limit	Blue	Orange	Green	Brown
1.		-36.78	-33.94	-36.47	-39.46
4.		-41.07	-35.90	-39.75	-39.33
8.	-24.52	-44.75	-37.03	-40.90	-40.30
10.	-24.99	-42.57	-35.50	-43.33	-36.15
16.	-25.00	-39.15	-33.30	-41.86	-33.39
20.	-25.00	-38.01	-32.22	-38.87	-33.77
25.	-24.32	-38.16	-32.81	-40.01	-35.15
31.25	-23.64	-41.79	-35.84	-42.75	-37.09
62.5	-21.54	-44.14	-34.81	-40.51	-35.22
100.	-20.11	-45.84	-34.95	-39.58	-34.63



## SRL - Near End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies

SRL - Near End (dB)				
Freq (MHz)	Blue	Orange	Green	Brown
1.	-35.98	-37.47	-38.54	-33.92
4.	-44.58	-42.02	-45.72	-37.73
8.	-47.20	-46.20	-49.94	-43.63
10.	-50.24	-49.75	-63.97	-50.43
16.	-60.72	-50.04	-67.70	-43.05
20.	-54.87	-53.18	-52.87	-63.26
25.	-70.49	-57.96	-58.99	-49.04
31.25	-59.91	-49.74	-76.62	-51.33
62.5	-41.91	-49.51	-55.08	-47.04
100.	-52.19	-56.32	-47.80	-66.64



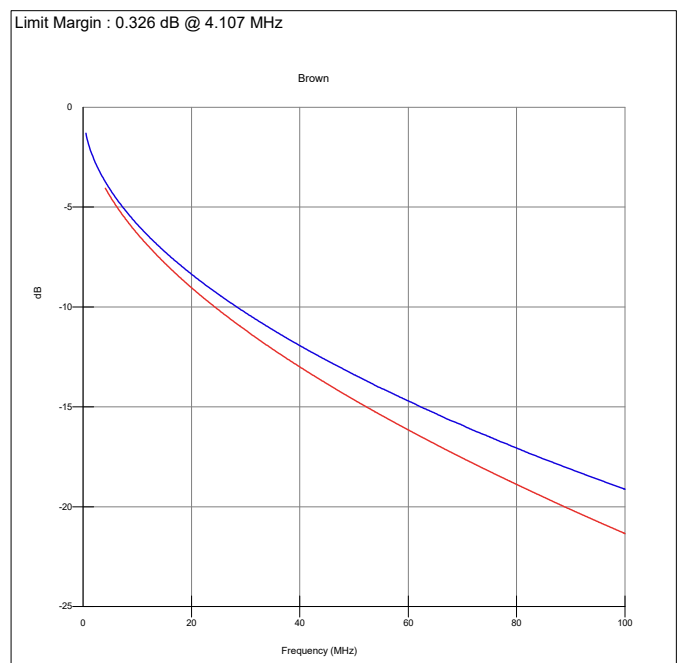
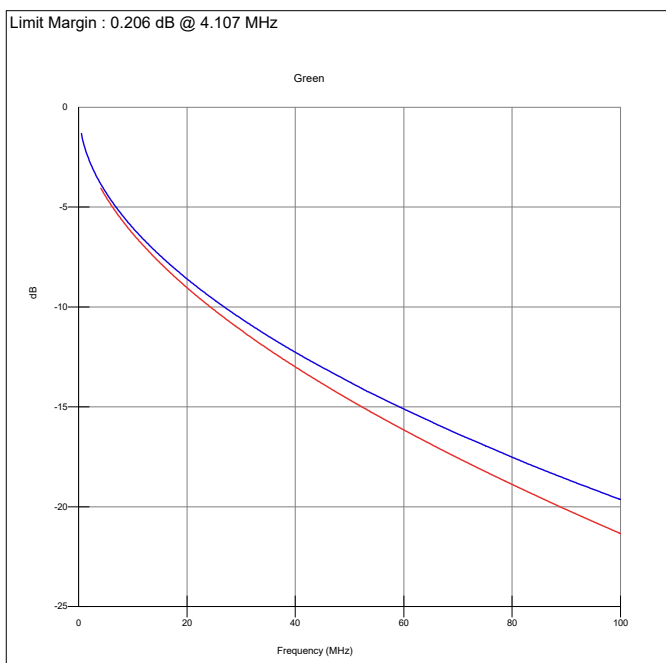
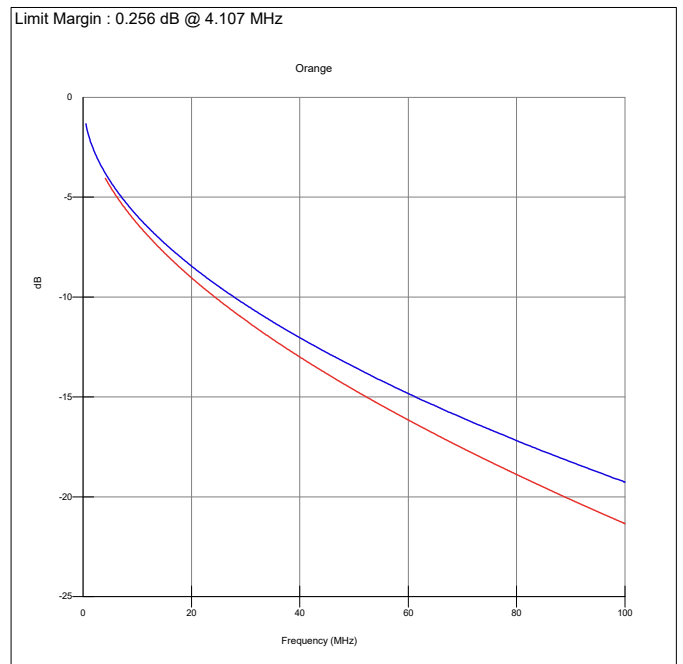
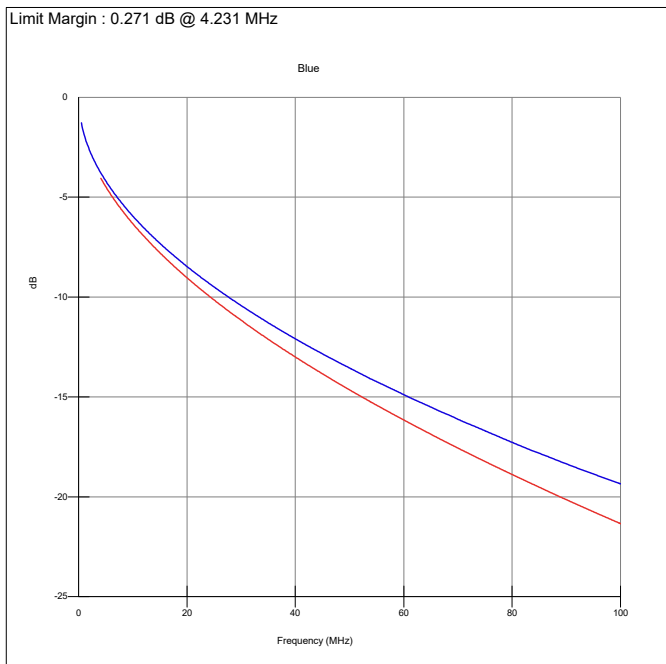
## SRL - Far End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies

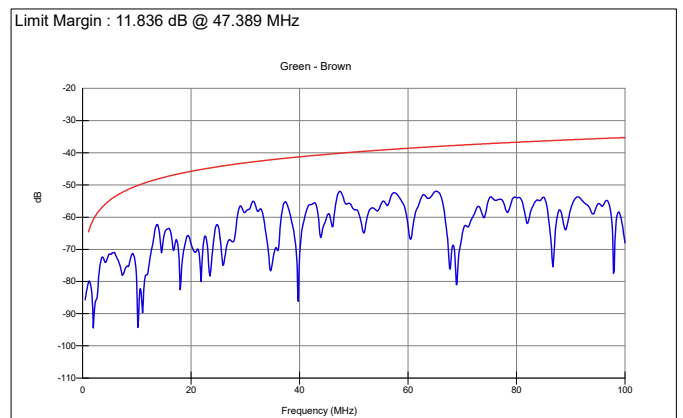
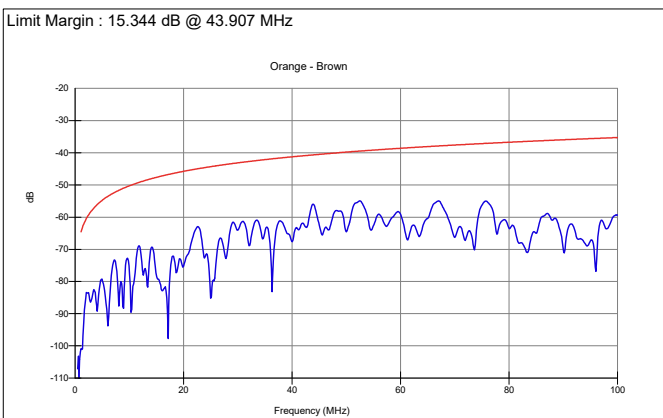
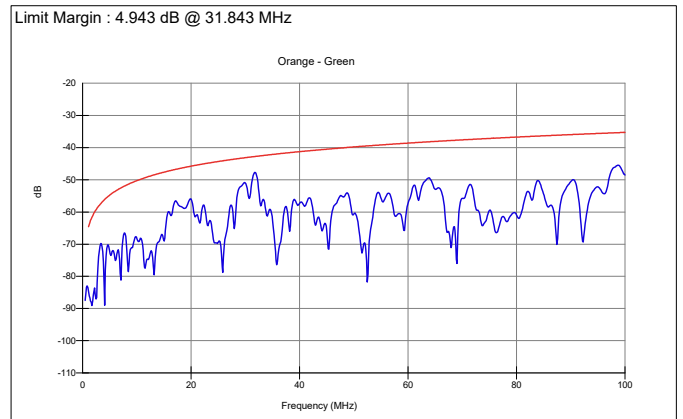
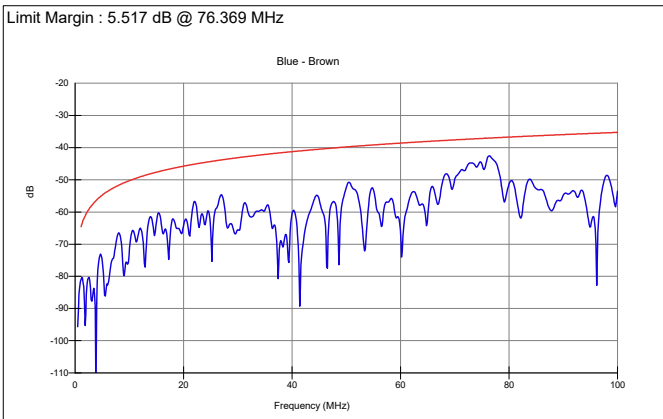
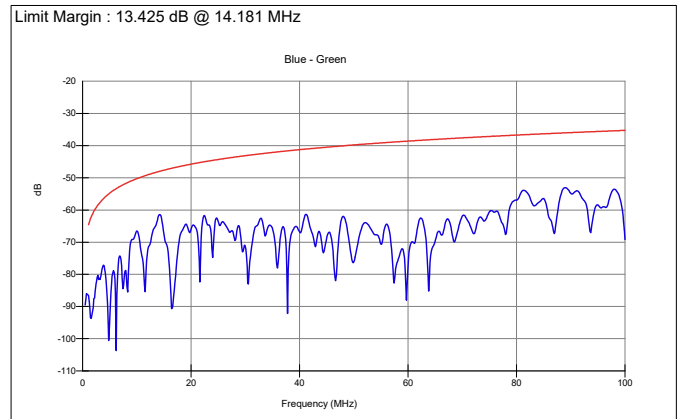
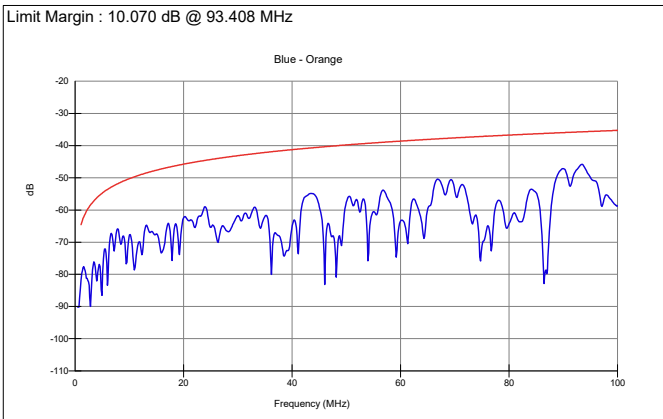
SRL - Far End (dB)				
Freq (MHz)	Blue	Orange	Green	Brown
1.	-36.90	-35.18	-38.59	-33.81
4.	-45.96	-42.87	-49.32	-41.72
8.	-44.43	-43.09	-57.37	-42.09
10.	-48.49	-48.75	-47.71	-58.54
16.	-61.12	-53.94	-51.45	-46.49
20.	-50.23	-45.48	-64.49	-48.10
25.	-49.67	-47.94	-62.71	-59.57
31.25	-65.17	-52.15	-49.26	-52.55
62.5	-55.71	-69.26	-57.15	-59.07
100.	-52.58	-79.82	-66.36	-52.51

## Insertion Loss

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)	<b>Length (m)</b>	100.
<b>Part No</b>	FA0424AUC5EV	<b>Temperature</b>	23 °C
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers		



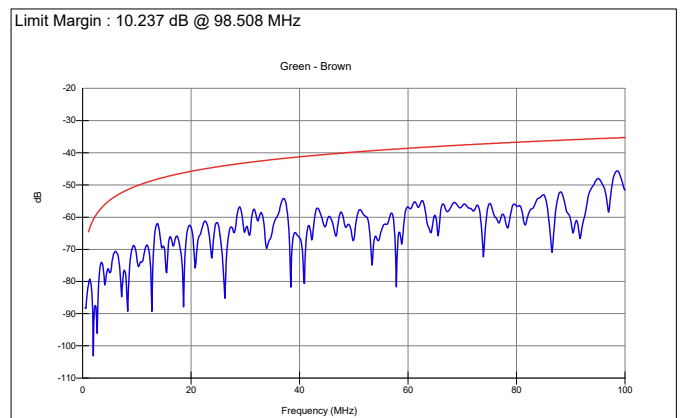
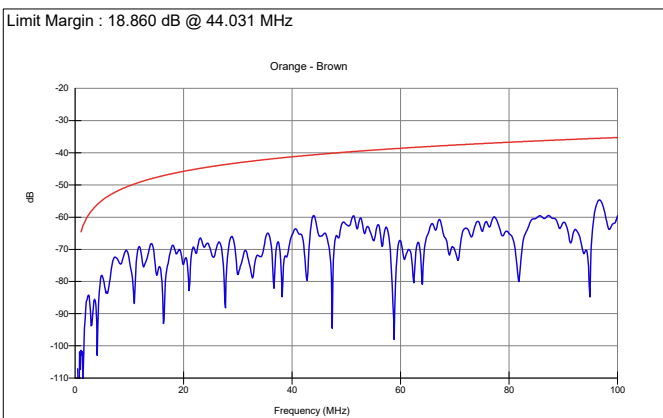
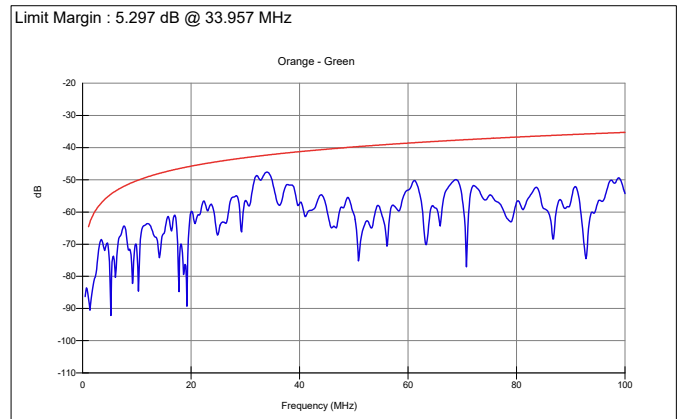
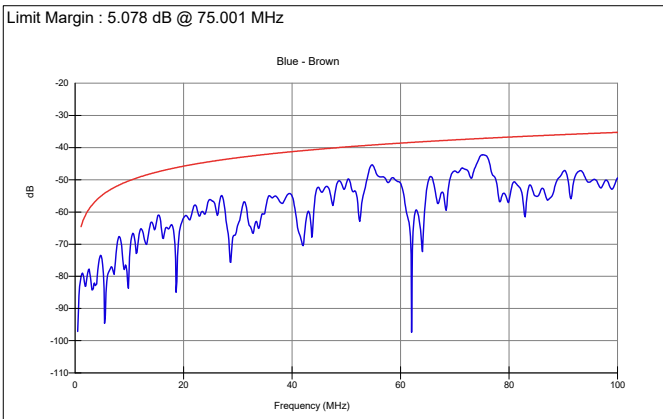
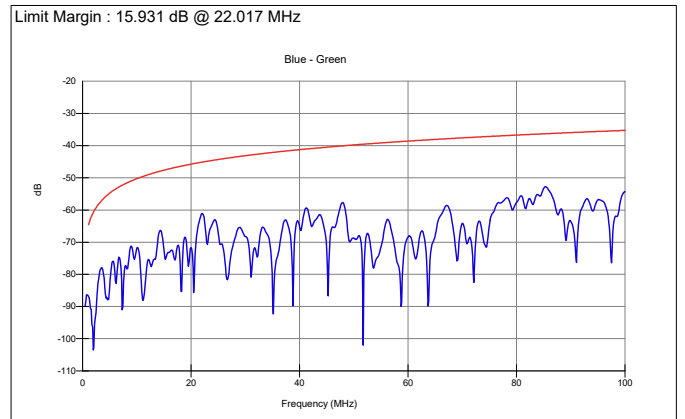
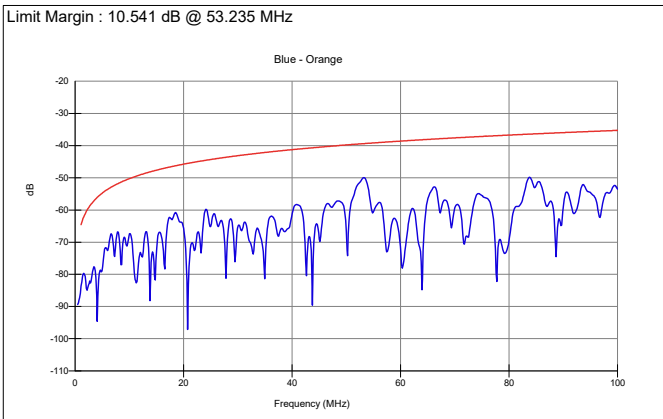
<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)	<b>Length (m)</b>	100.
<b>Part No</b>	FA0424AUC5EV	<b>Temperature</b>	23 °C
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers		





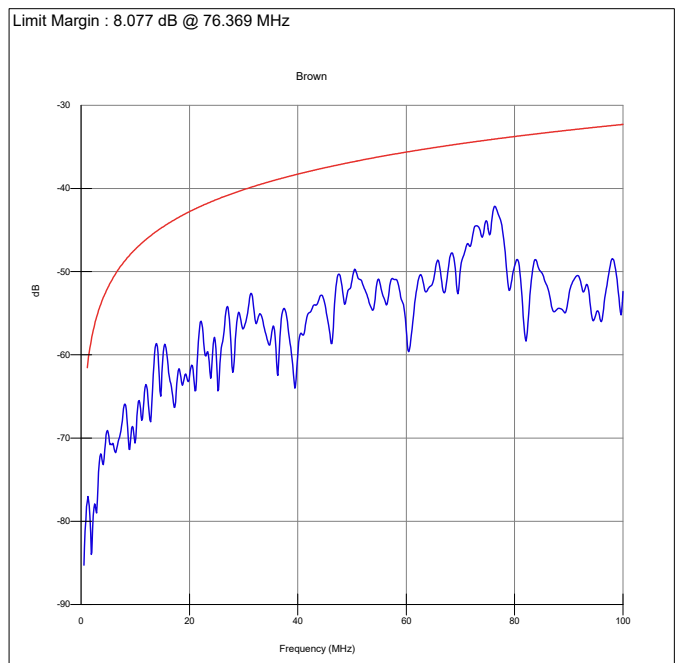
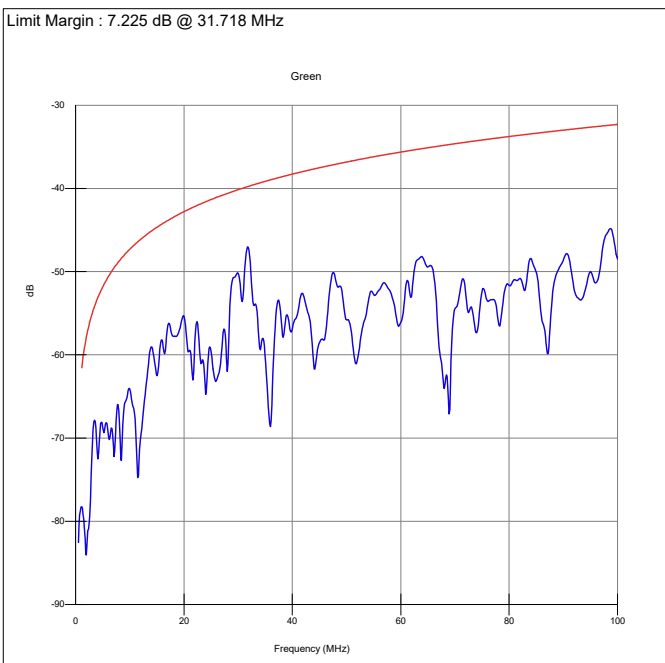
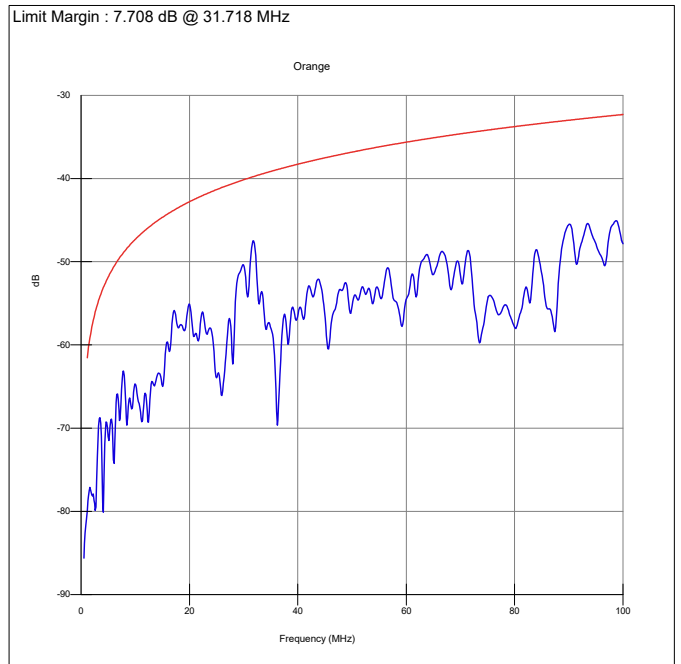
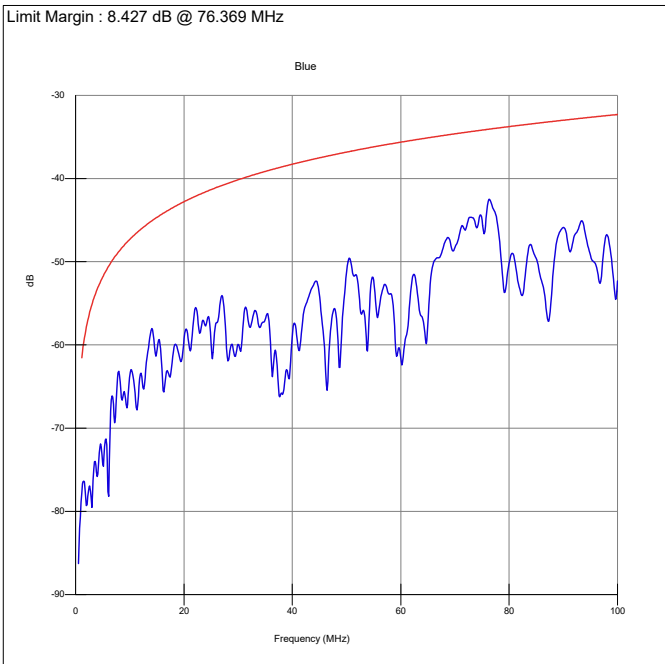
## NEXT - Far End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)	<b>Length (m)</b>	100.
<b>Part No</b>	FA0424AUC5EV	<b>Temperature</b>	23 °C
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers		



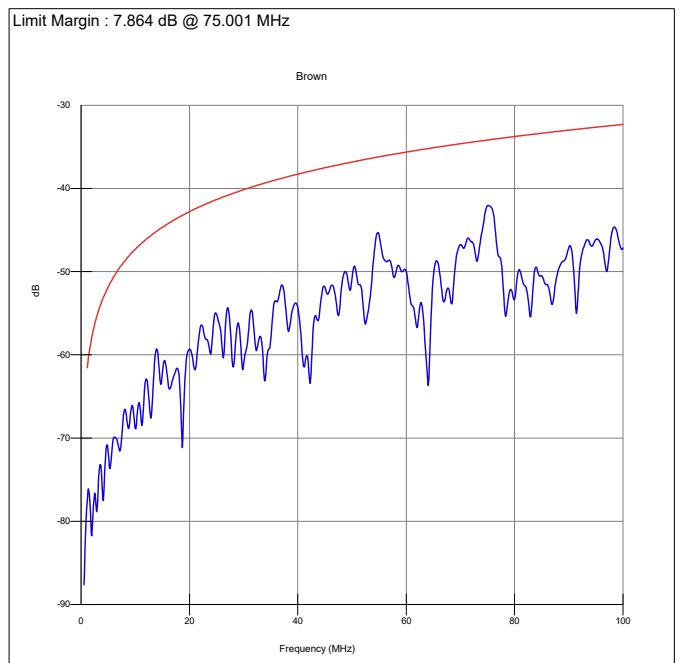
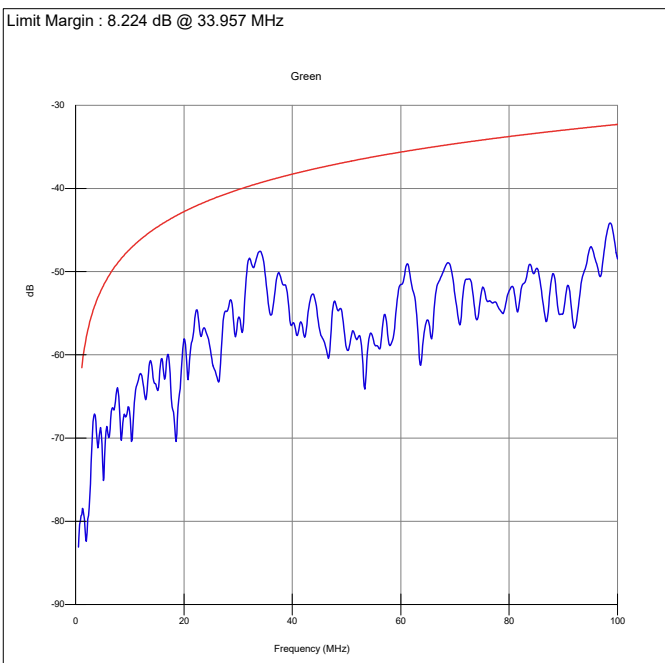
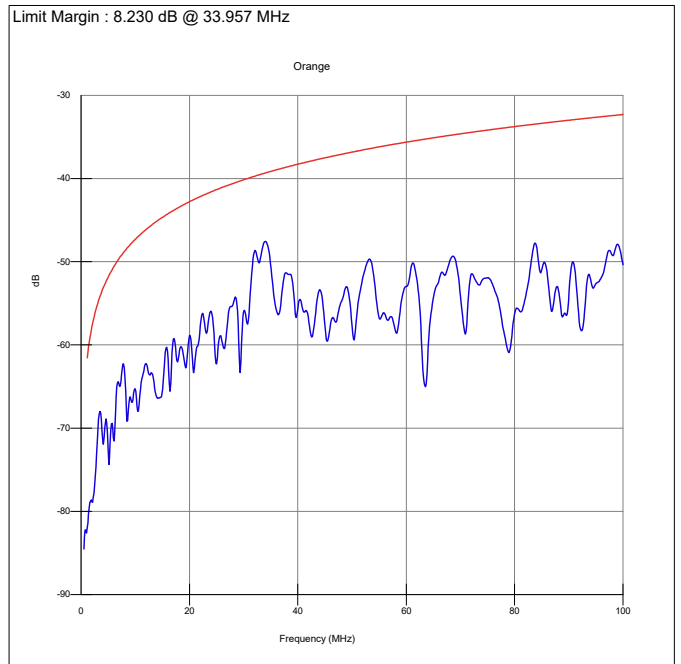
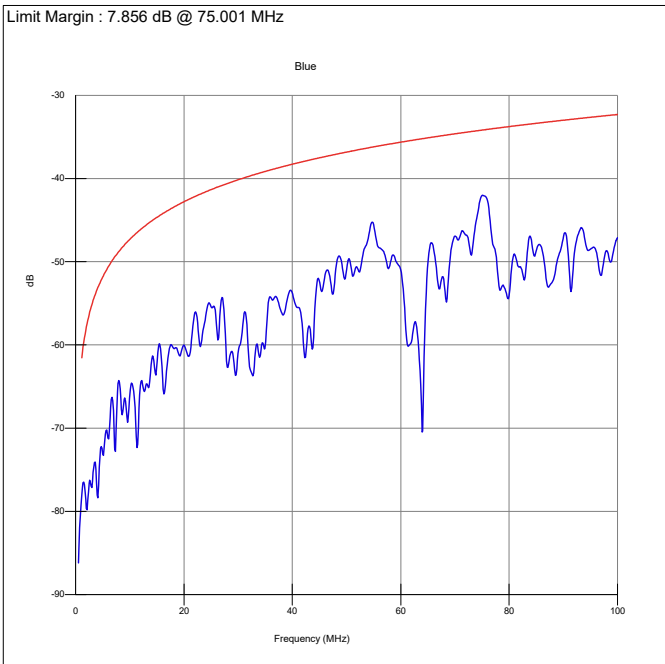
## PSNEXT - Near End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)	<b>Length (m)</b>	100.
<b>Part No</b>	FA0424AUC5EV	<b>Temperature</b>	23 °C
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers		



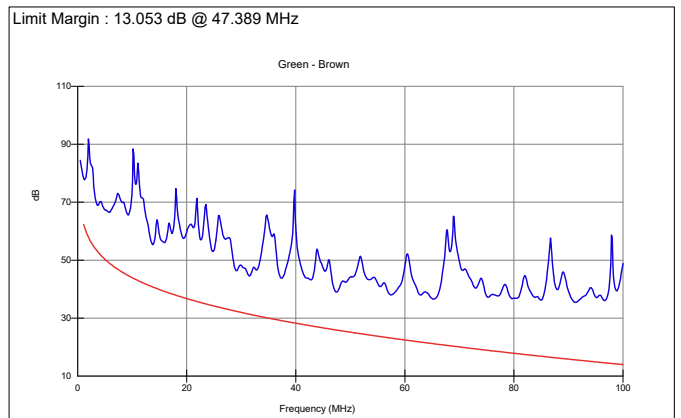
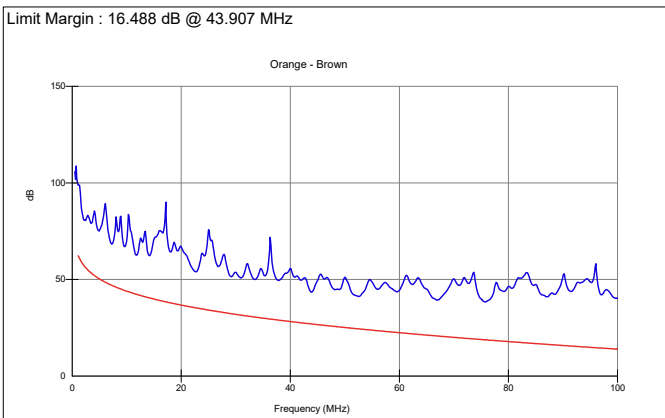
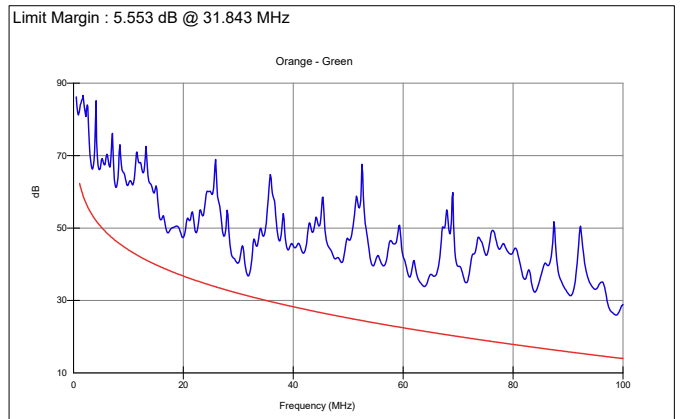
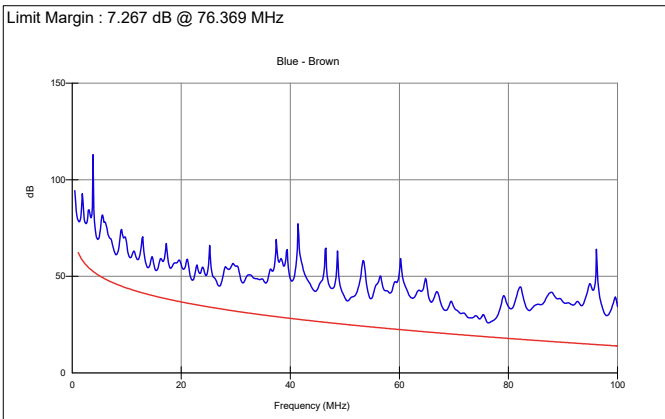
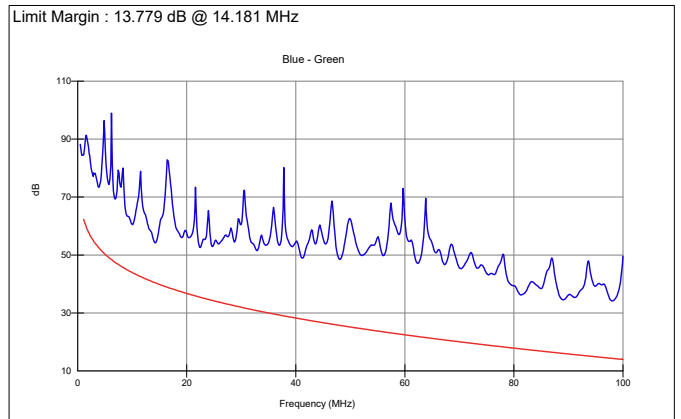
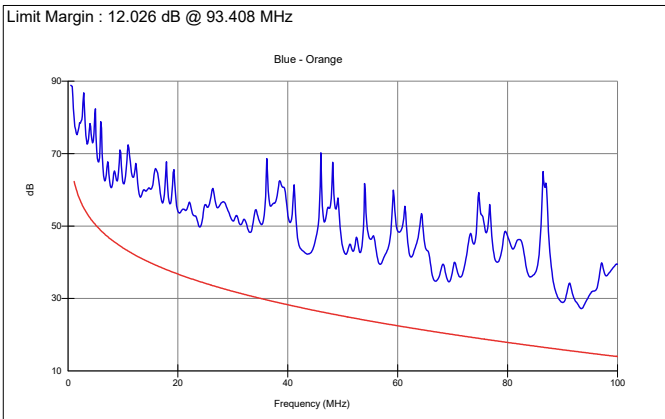
## PSNEXT - Far End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)	<b>Length (m)</b>	100.
<b>Part No</b>	FA0424AUC5EV	<b>Temperature</b>	23 °C
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers		



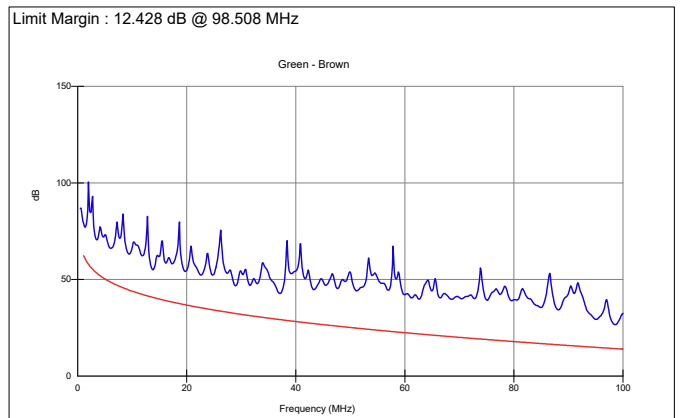
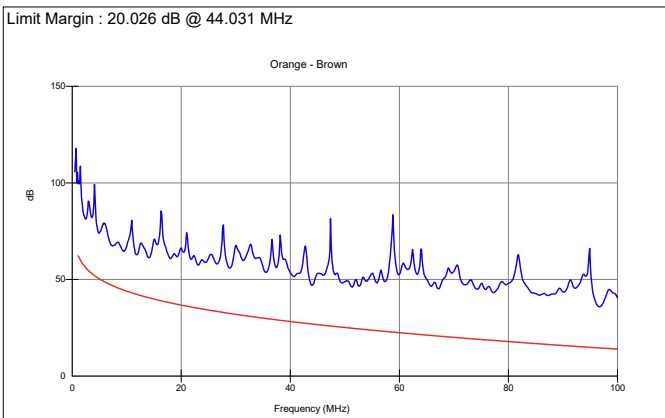
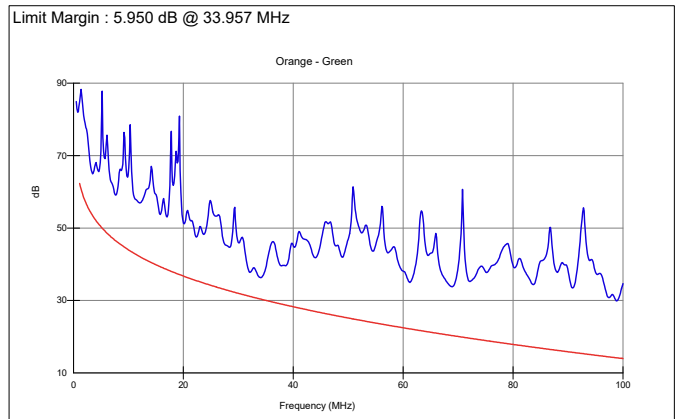
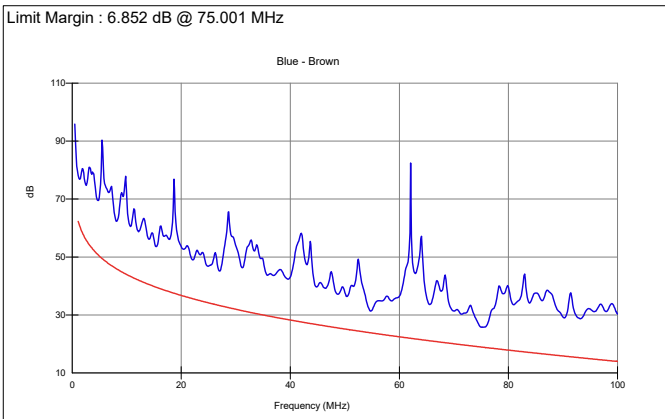
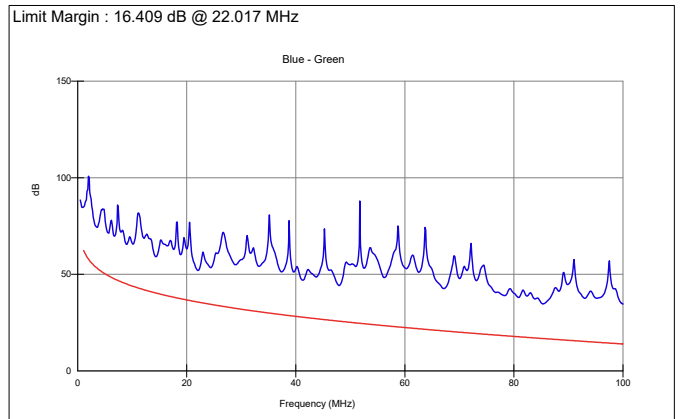
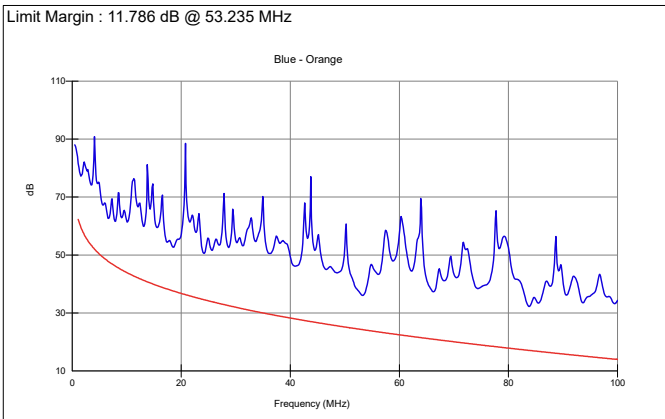
## ACR - Near End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies



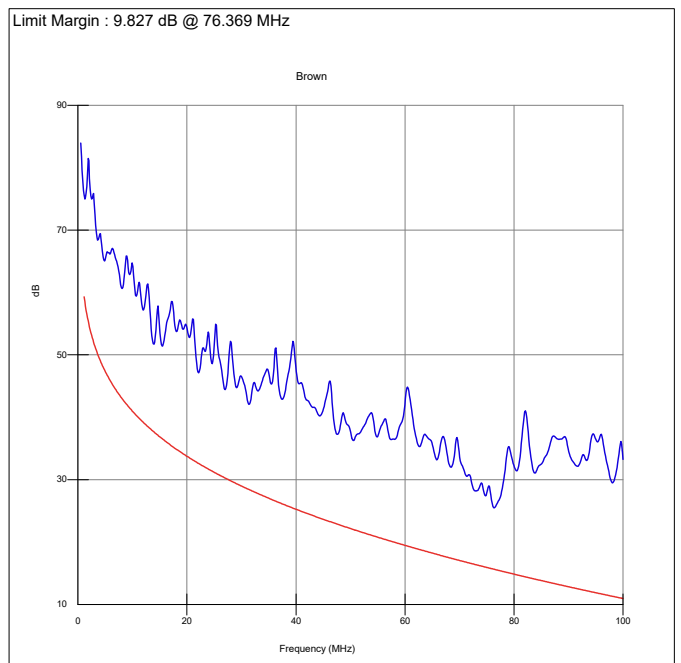
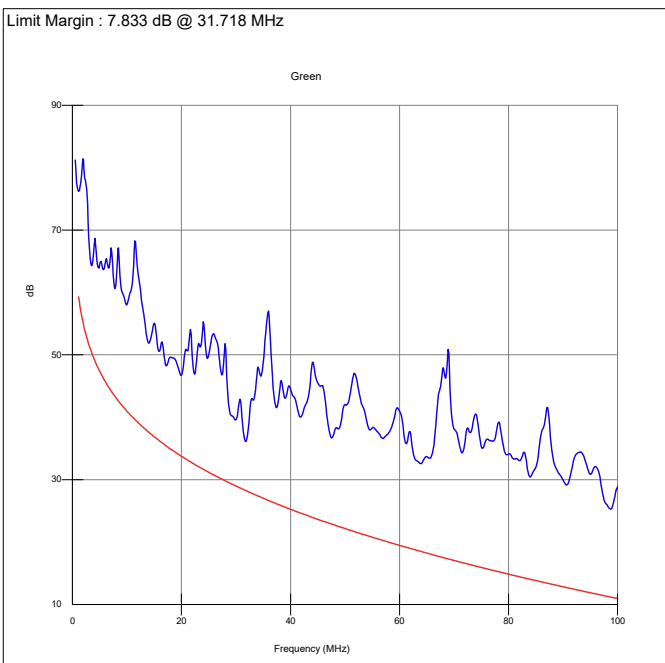
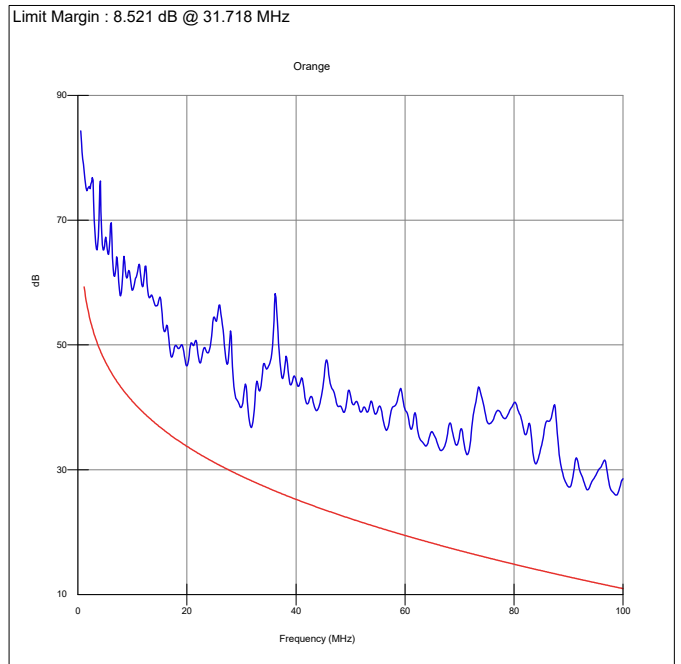
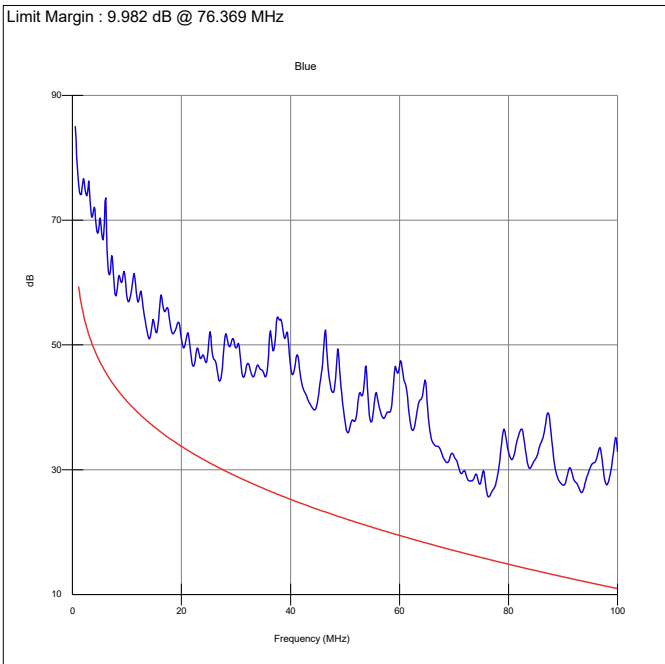
## ACR - Far End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)	<b>Length (m)</b>	100.
<b>Part No</b>	FA0424AUC5EV	<b>Temperature</b>	23 °C
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers		



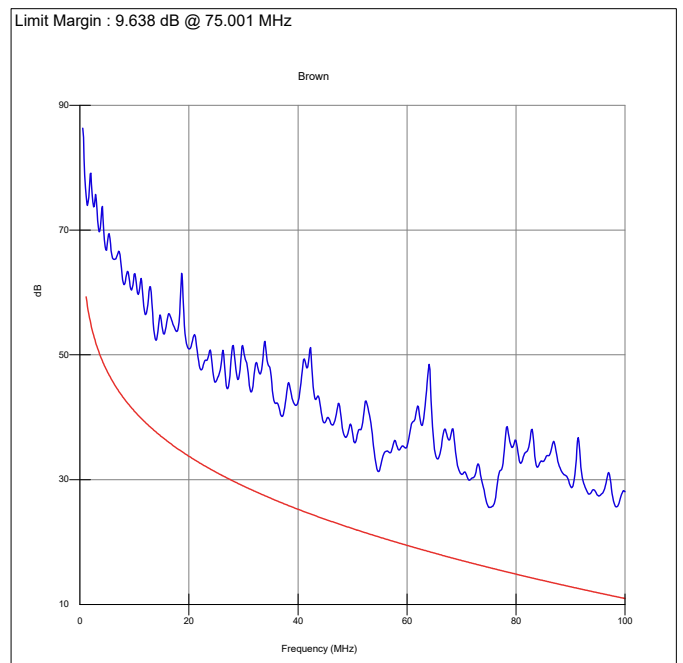
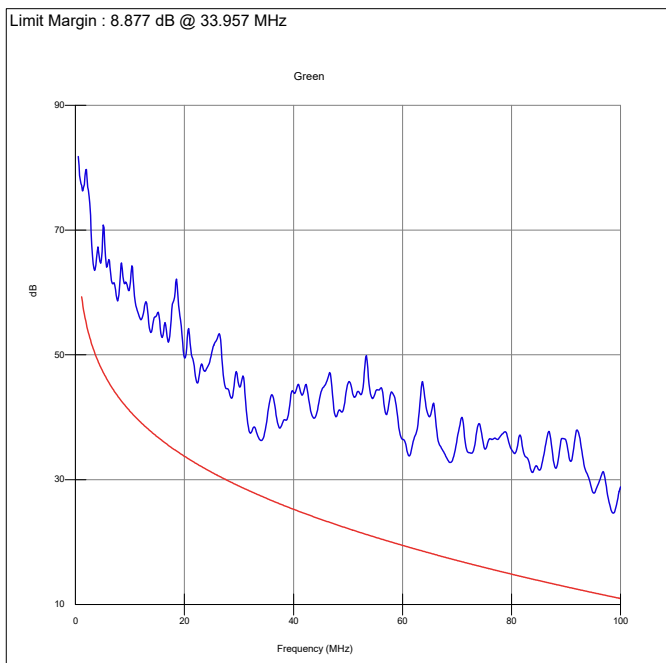
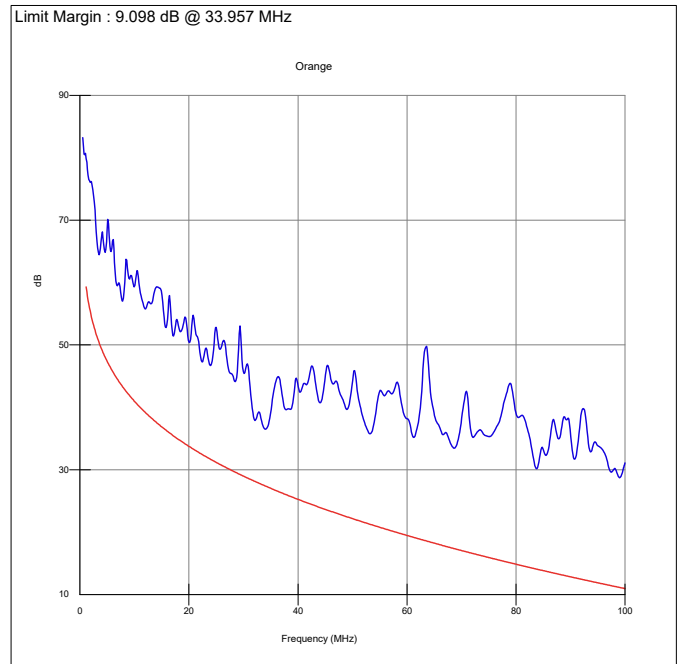
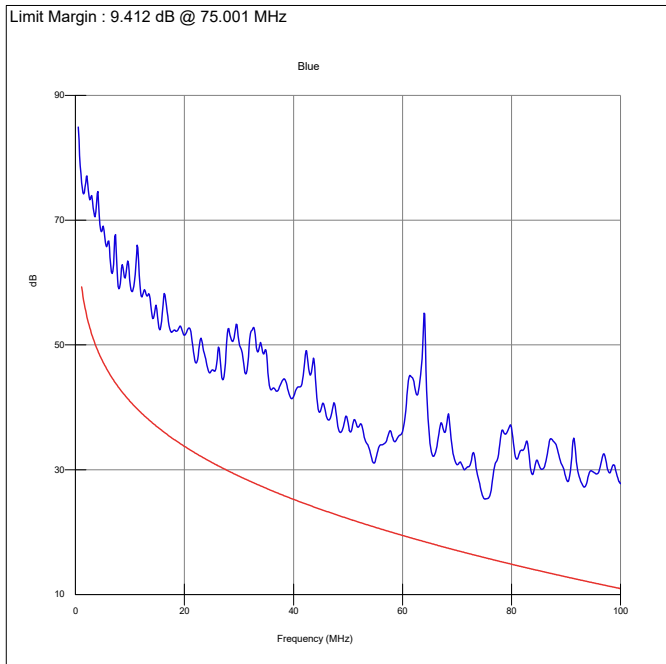
## PSACR - Near End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)	<b>Length (m)</b>	100.
<b>Part No</b>	FA0424AUC5EV	<b>Temperature</b>	23 °C
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers		



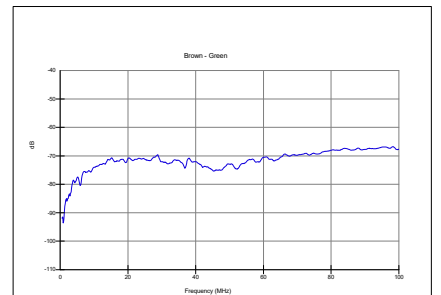
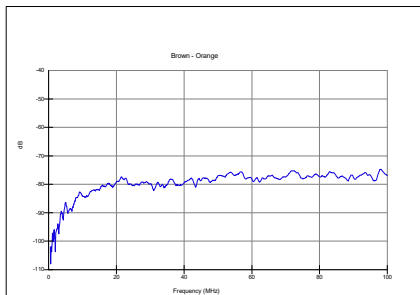
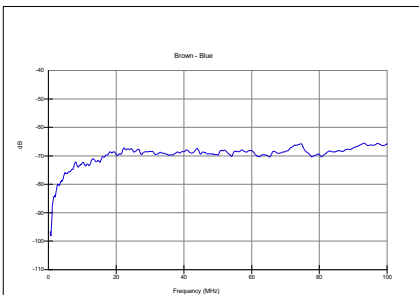
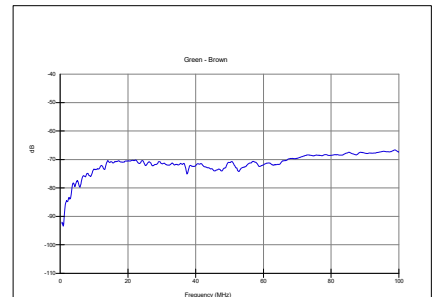
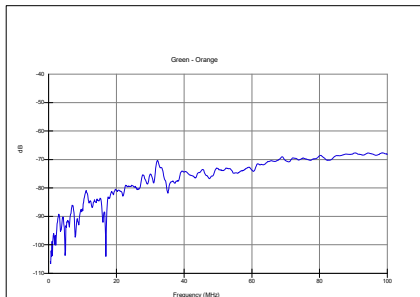
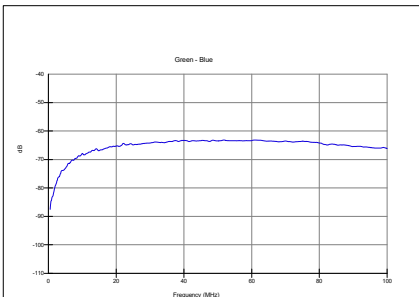
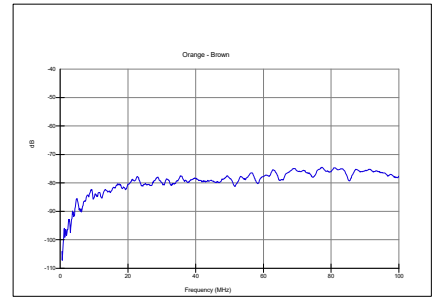
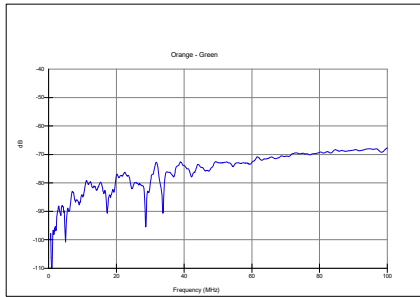
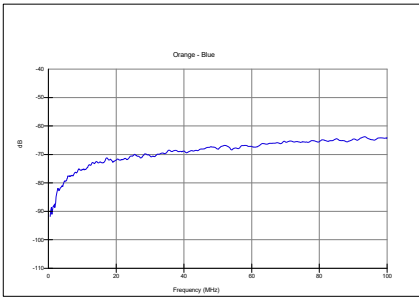
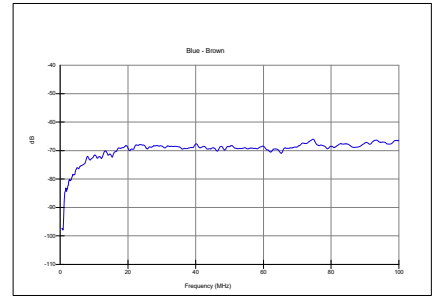
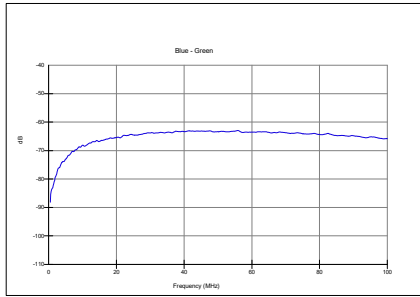
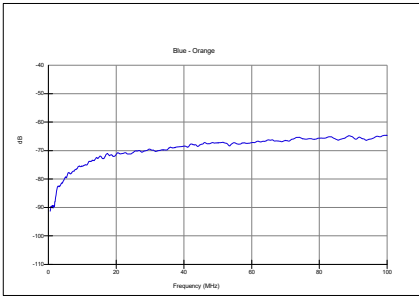
## PSACR - Far End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)	<b>Length (m)</b>	100.
<b>Part No</b>	FA0424AUC5EV	<b>Temperature</b>	23 °C
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers		



## FEXT - Near End

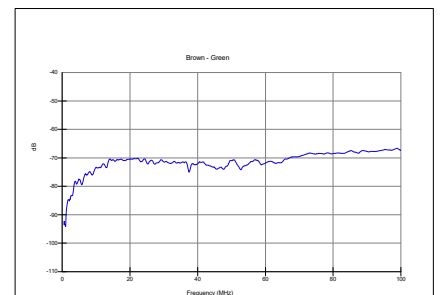
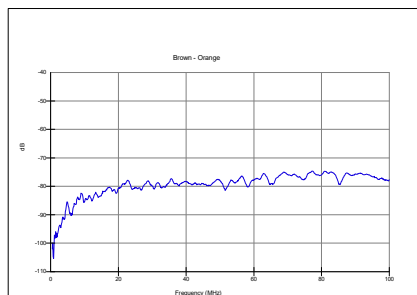
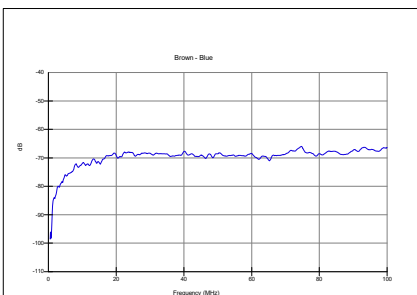
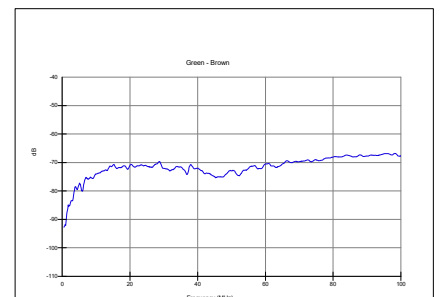
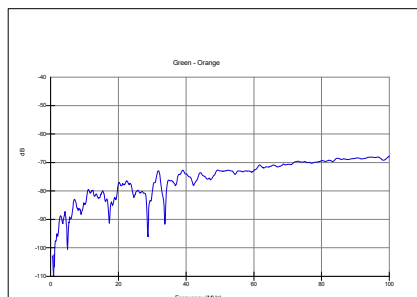
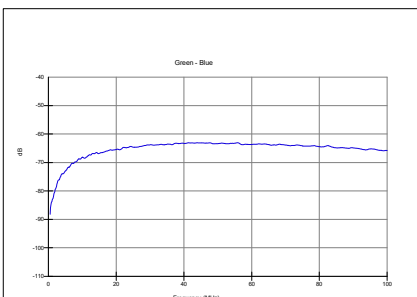
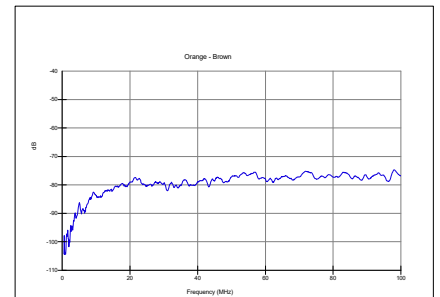
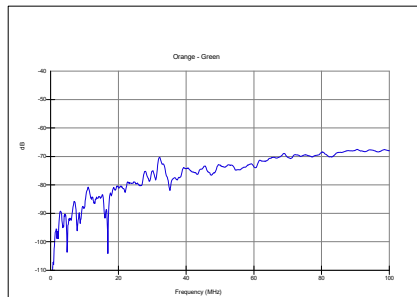
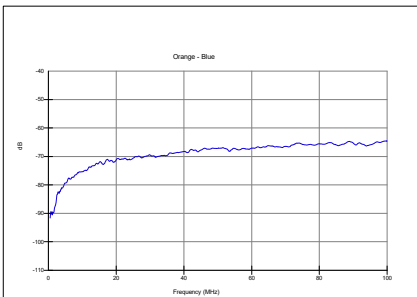
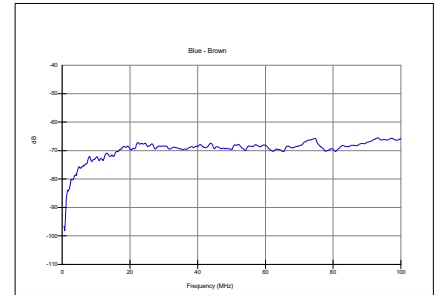
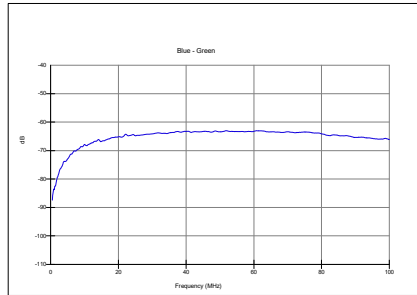
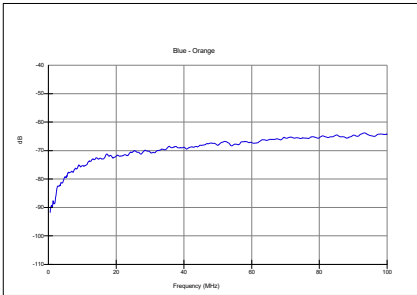
<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies





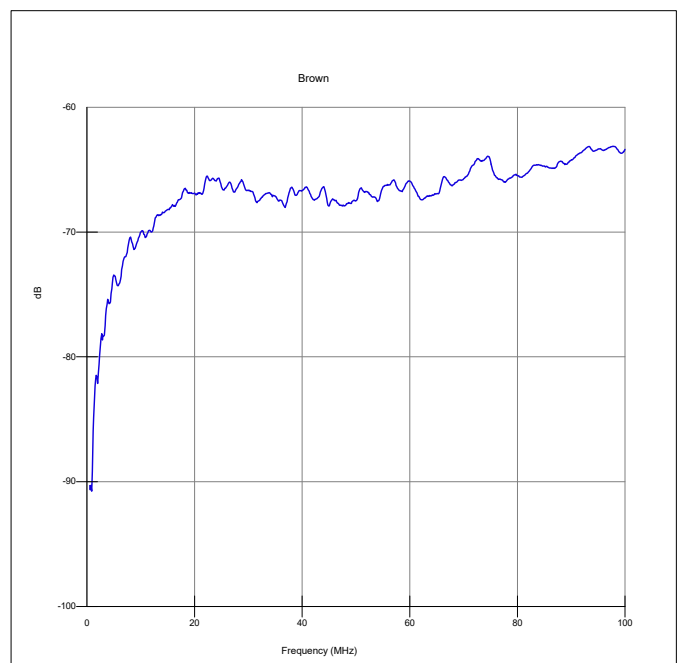
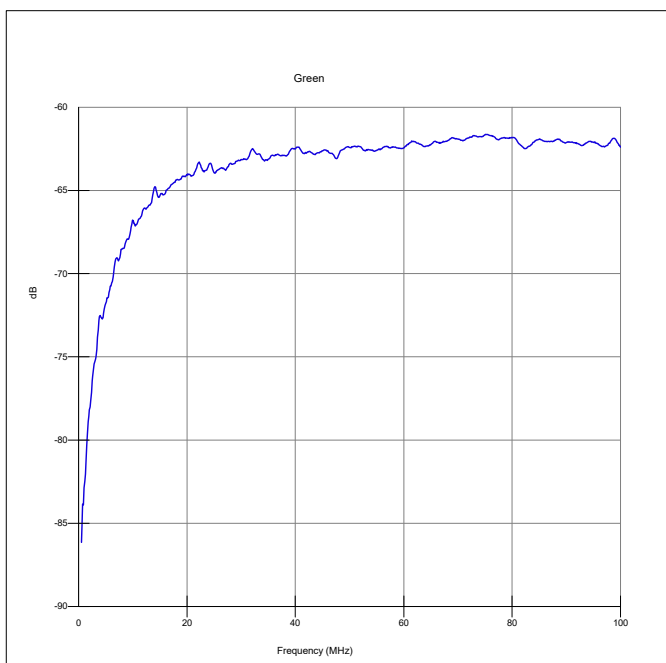
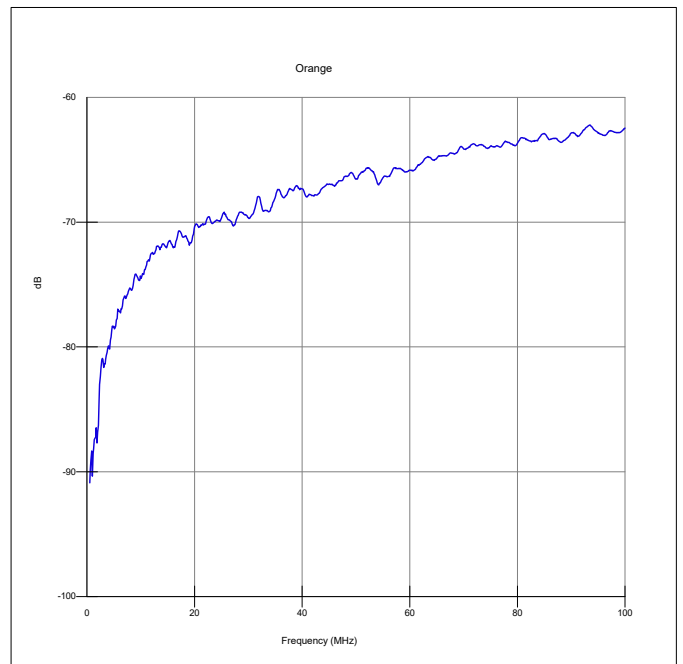
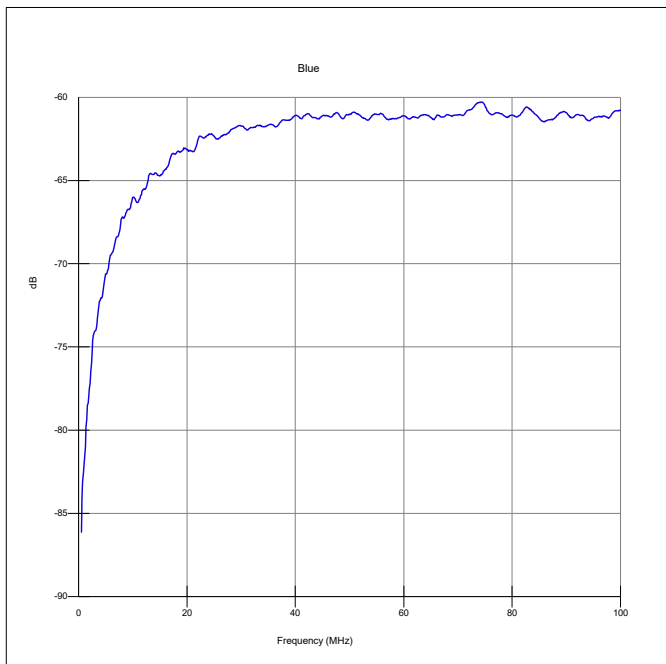
## FEXT - Far End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies



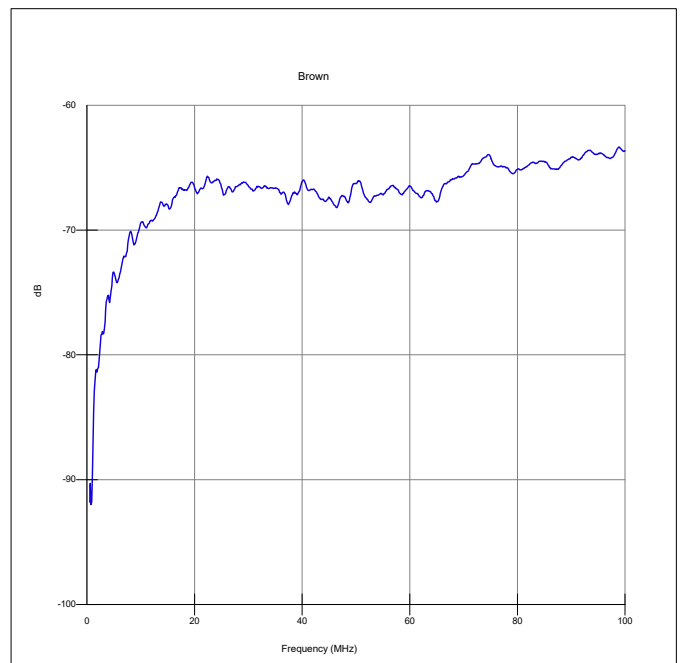
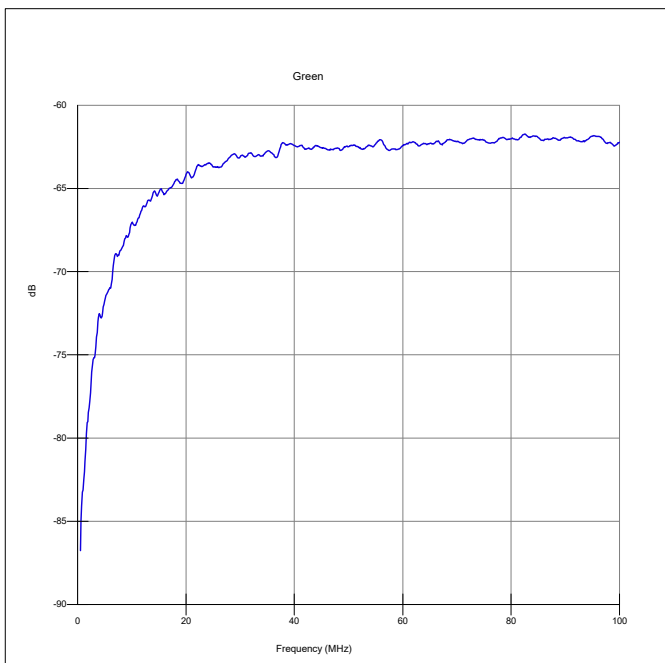
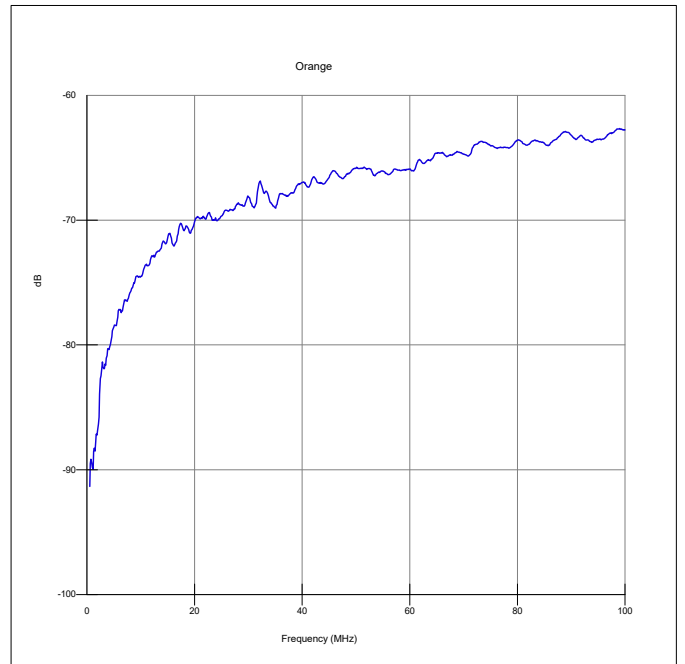
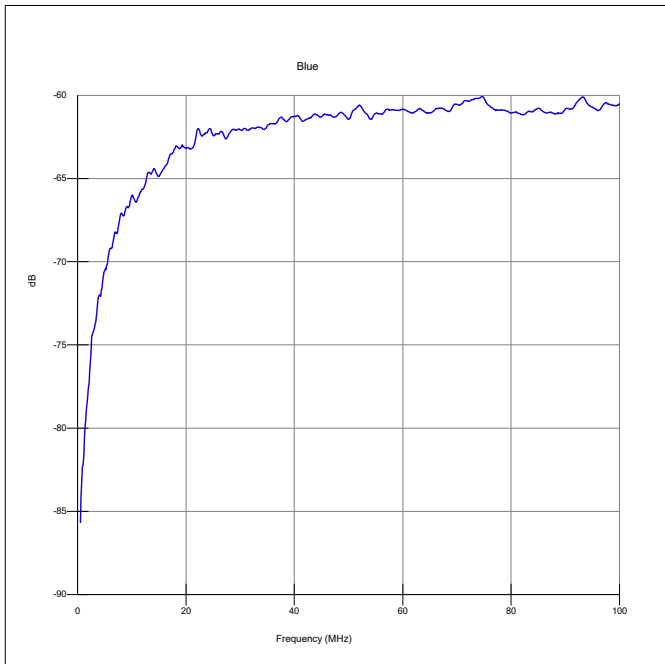
## PSFEXT - Near End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies



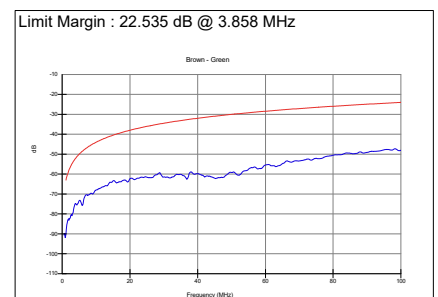
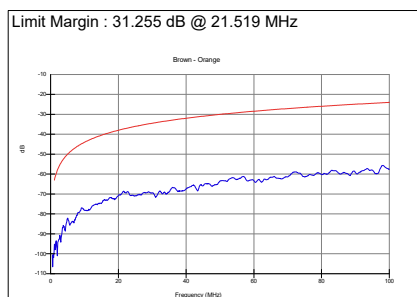
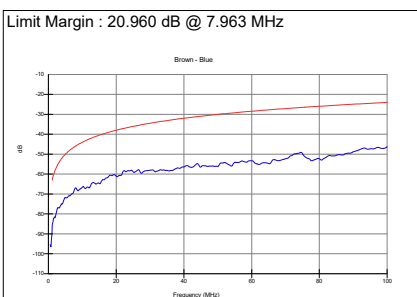
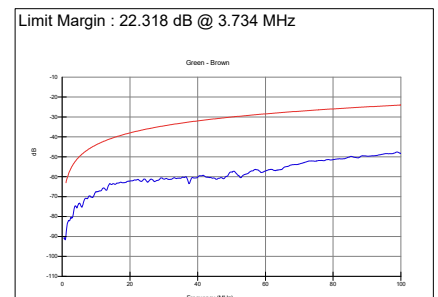
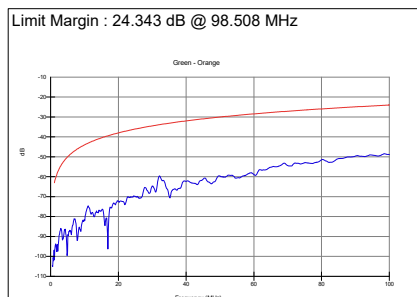
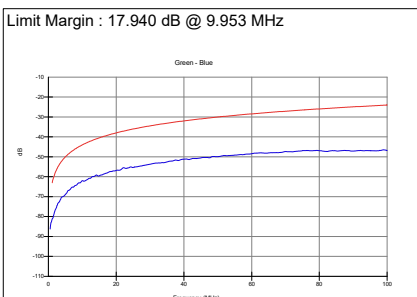
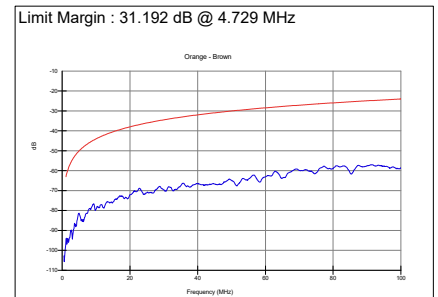
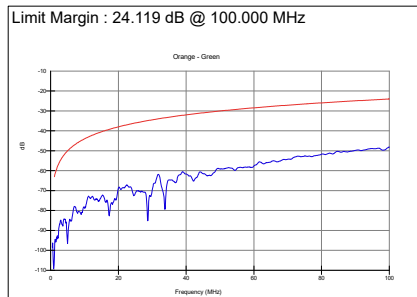
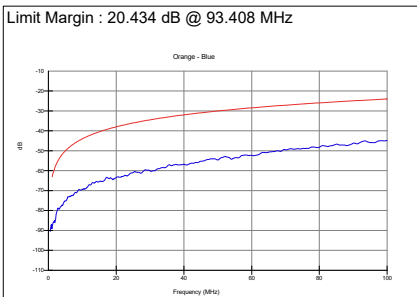
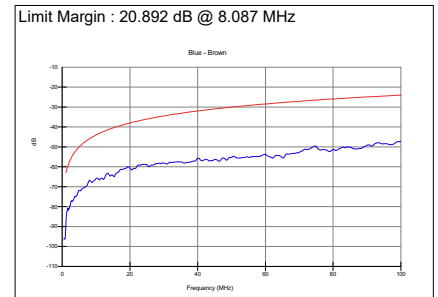
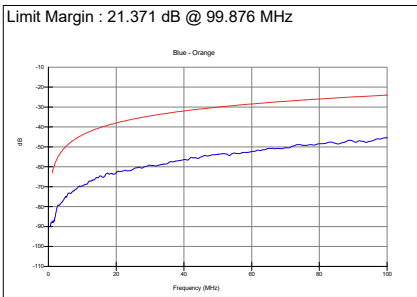
## PSFEXT - Far End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies



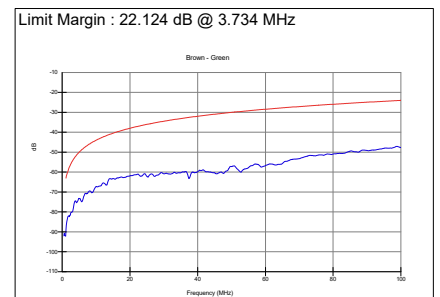
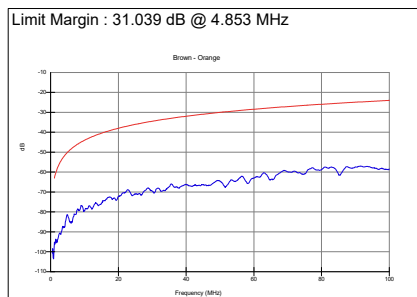
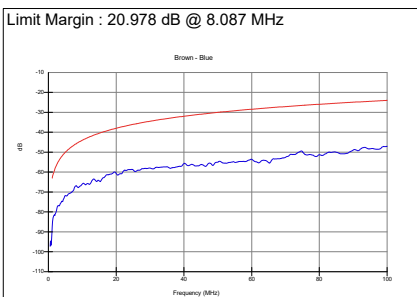
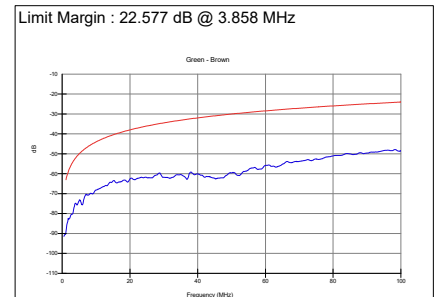
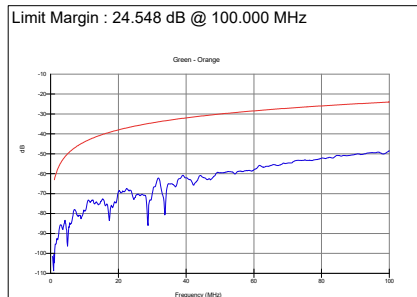
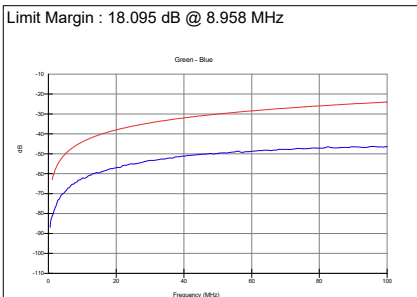
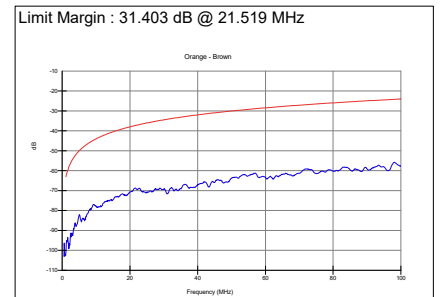
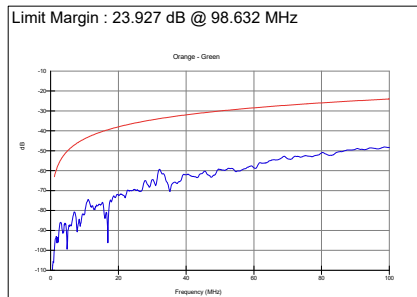
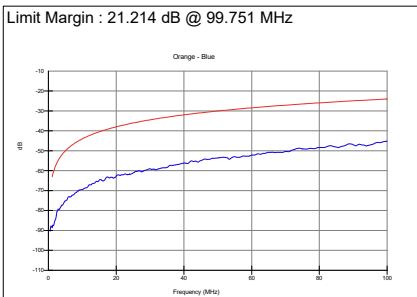
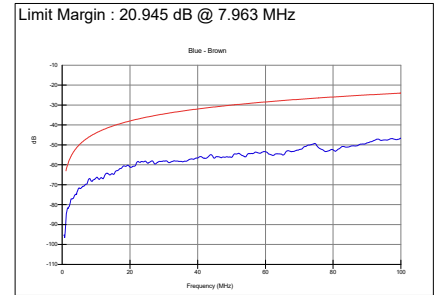
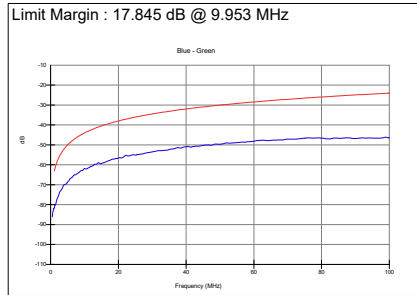
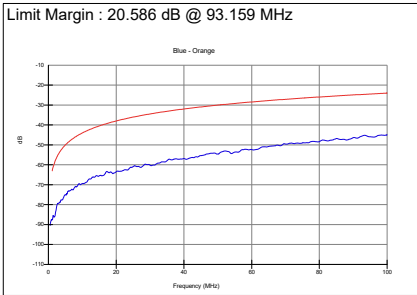
## ACRF (ELFEXT) - Near End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)	<b>Length (m)</b>	100.
<b>Part No</b>	FA0424AUC5EV	<b>Temperature</b>	23 °C
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers		



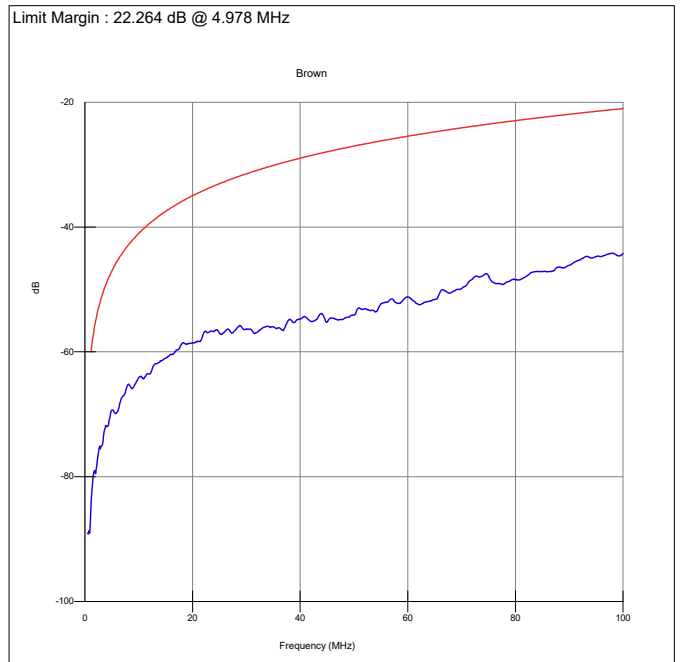
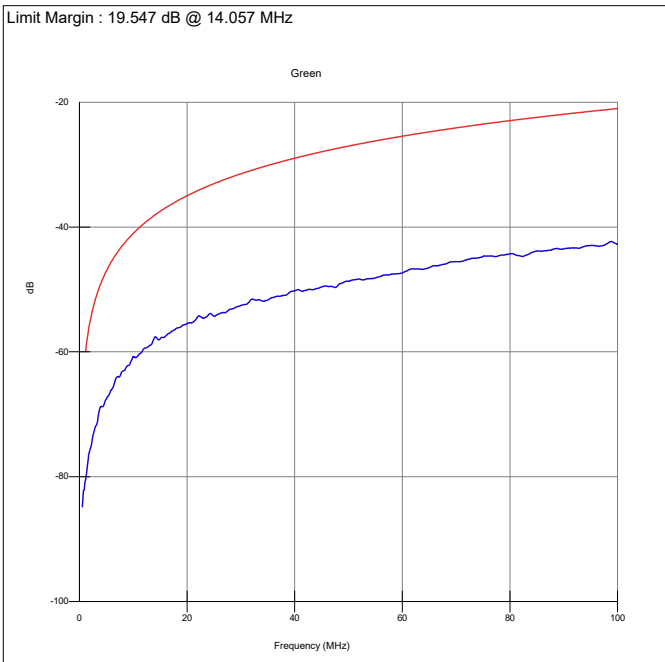
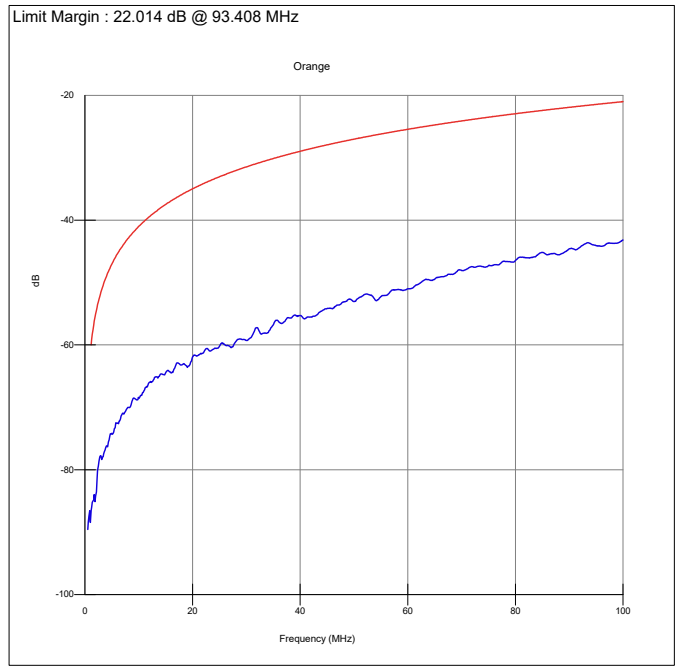
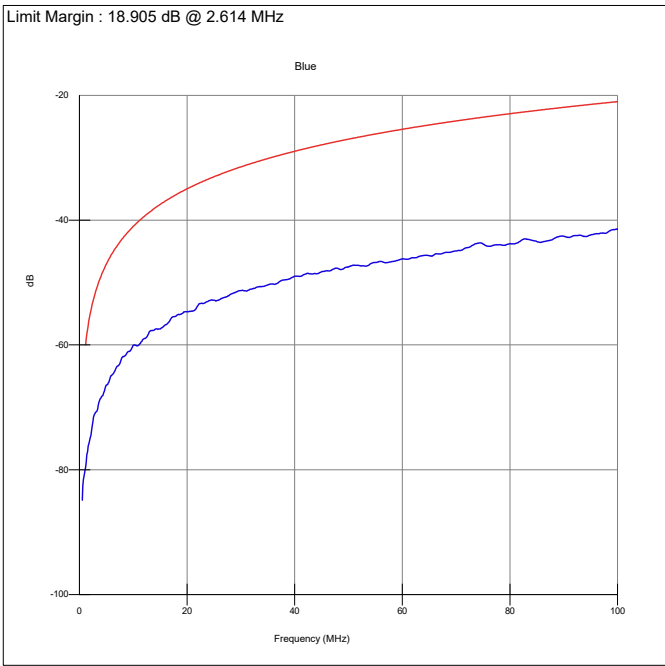
## ACRF (ELFEXT) - Far End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)	<b>Length (m)</b>	100.
<b>Part No</b>	FA0424AUC5EV	<b>Temperature</b>	23 °C
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers		



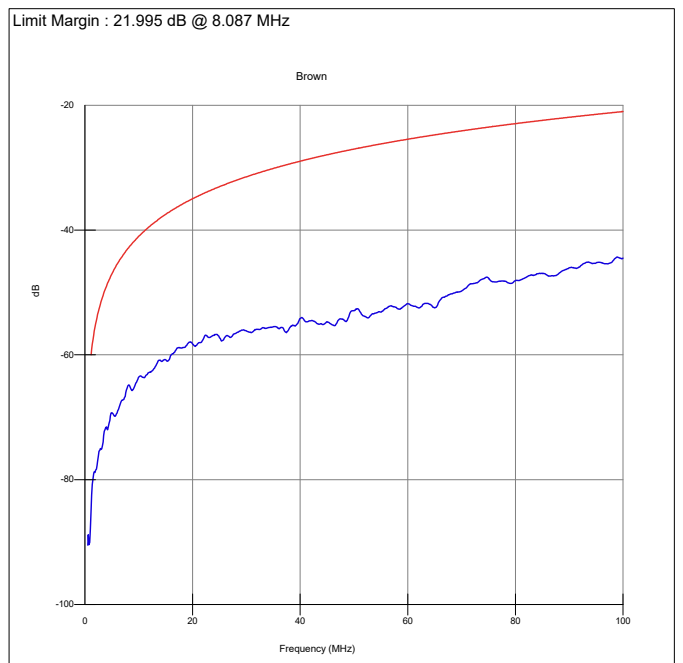
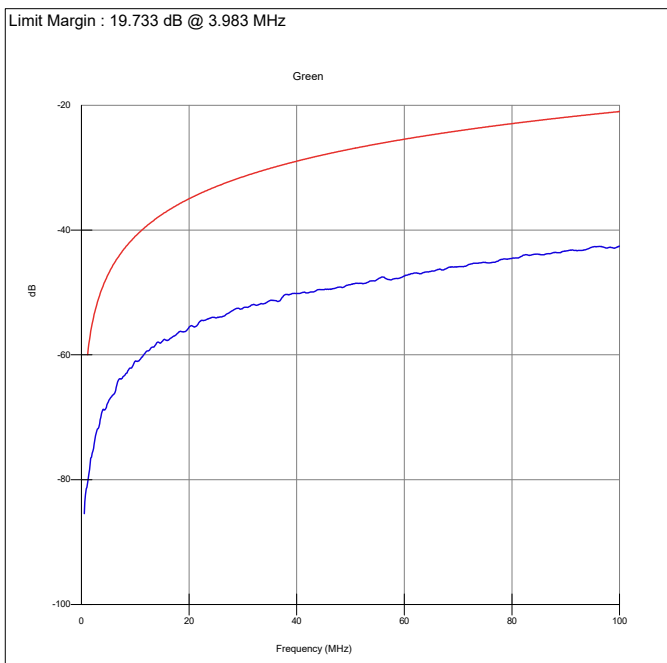
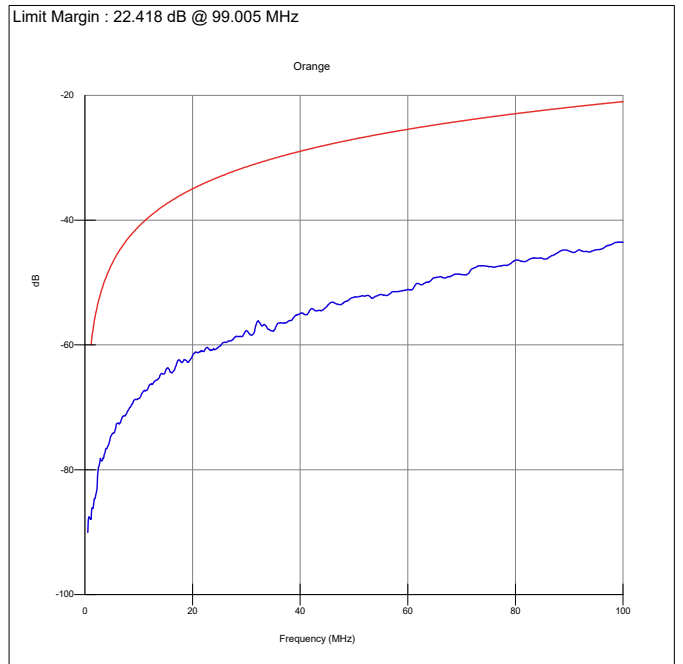
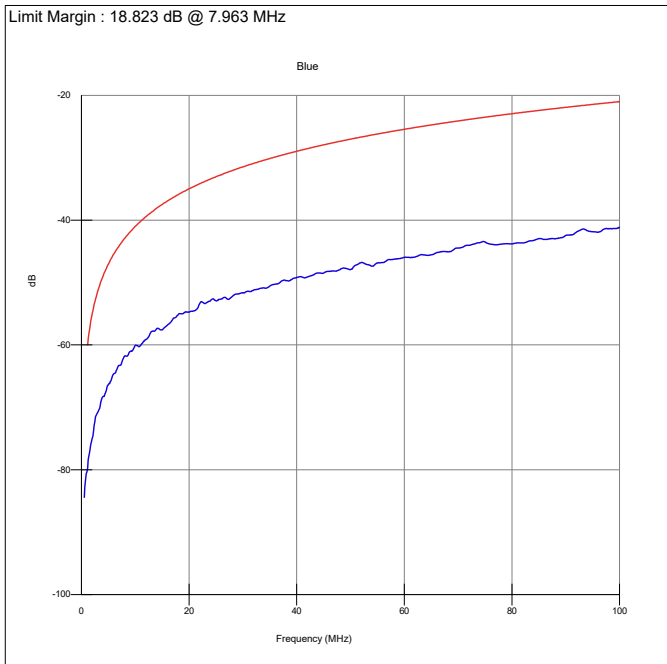
## PSACRF (PSELFEXT) - Near End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)	<b>Length (m)</b>	100.
<b>Part No</b>	FA0424AUC5EV	<b>Temperature</b>	23 °C
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers		



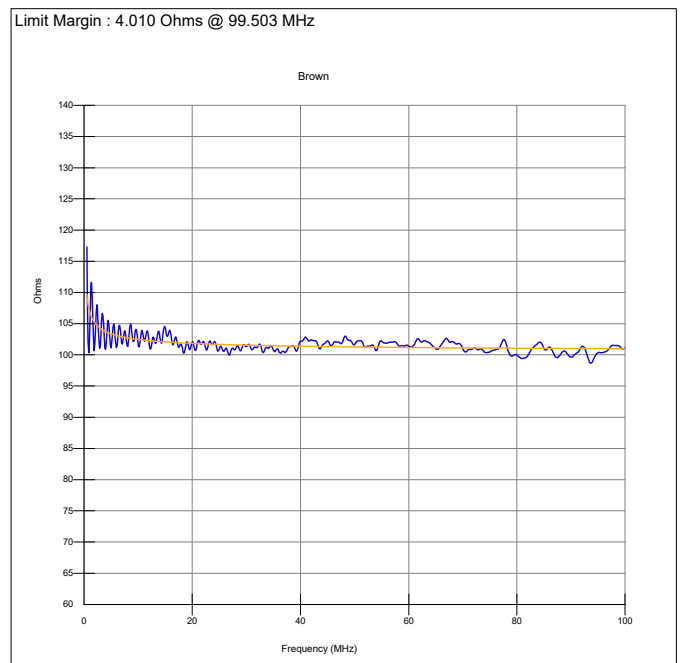
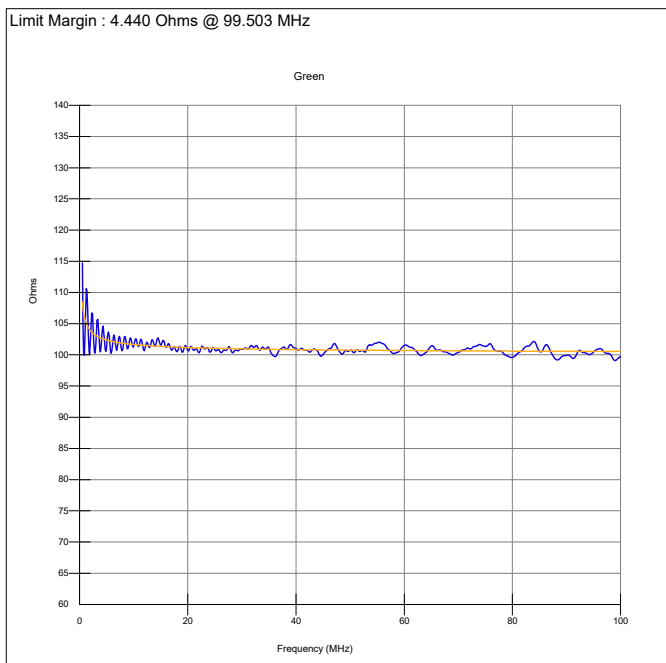
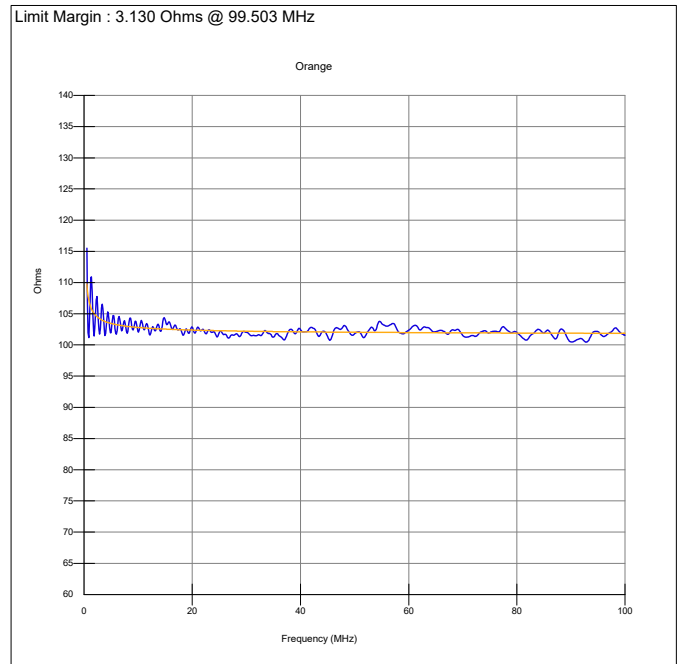
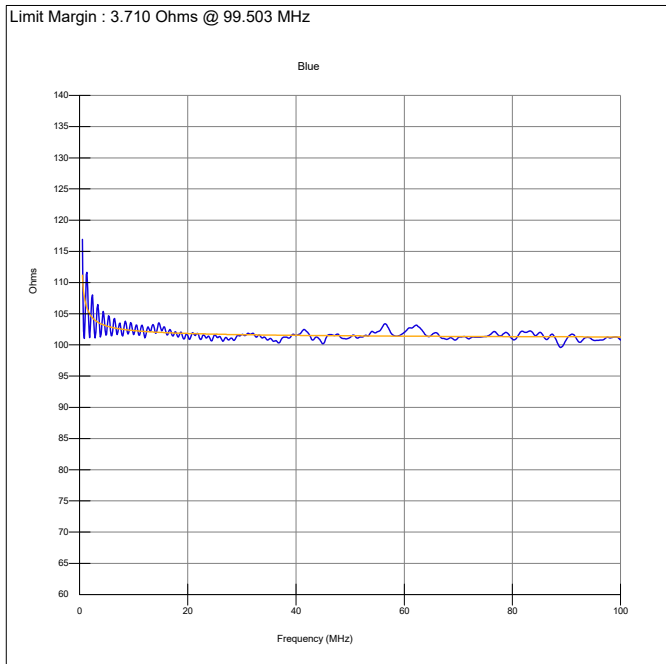
## PSACRF (PSELFEXT) - Far End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies



## Impedance - Near End

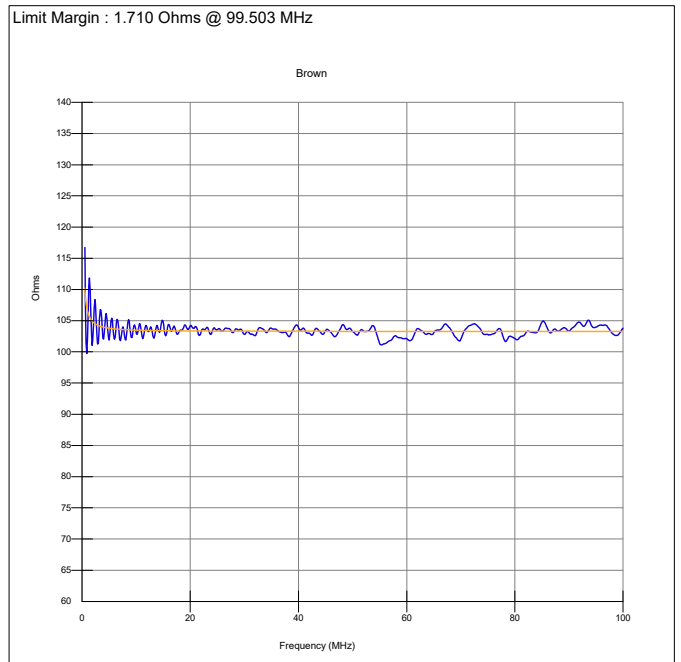
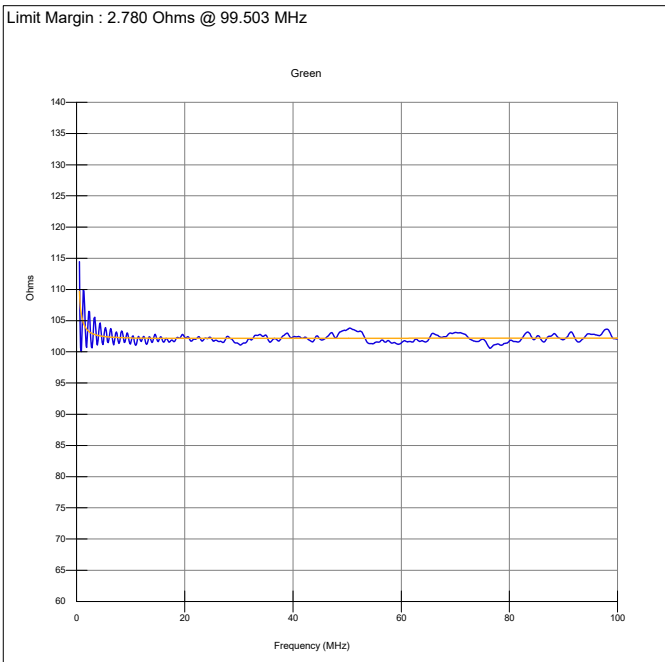
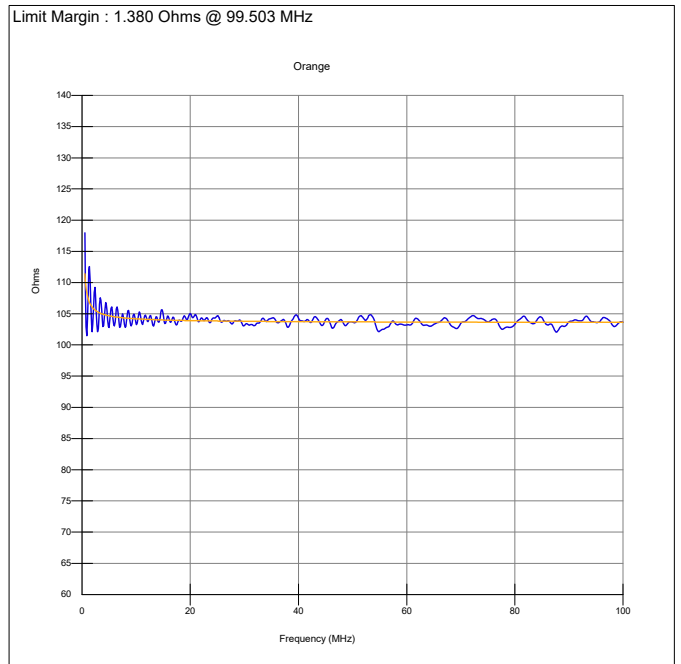
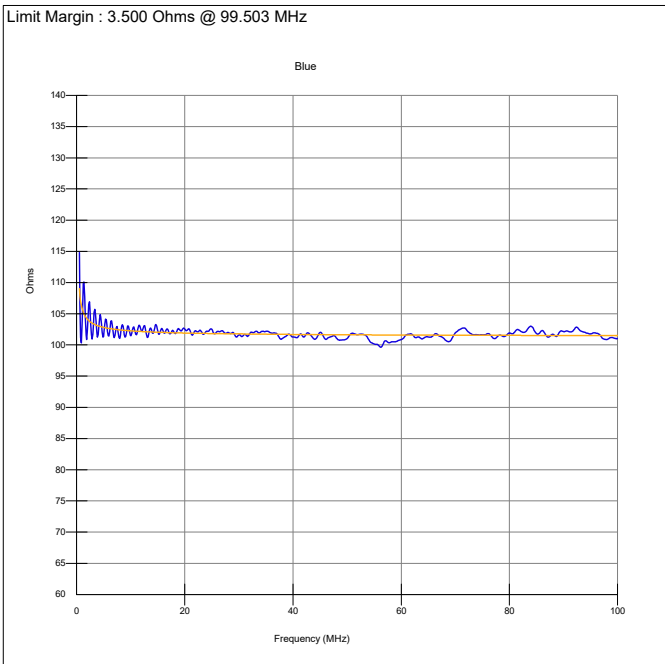
<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)	<b>Length (m)</b>	100.
<b>Part No</b>	FA0424AUC5EV	<b>Temperature</b>	23 °C
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers		





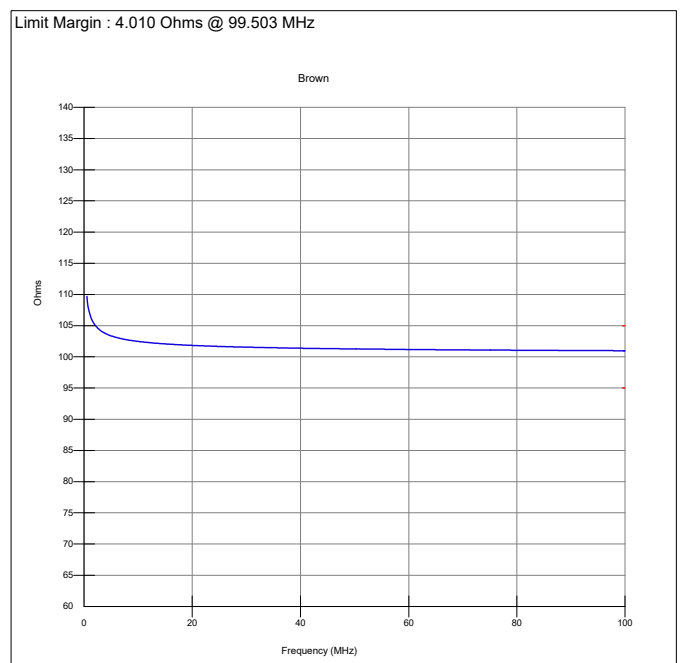
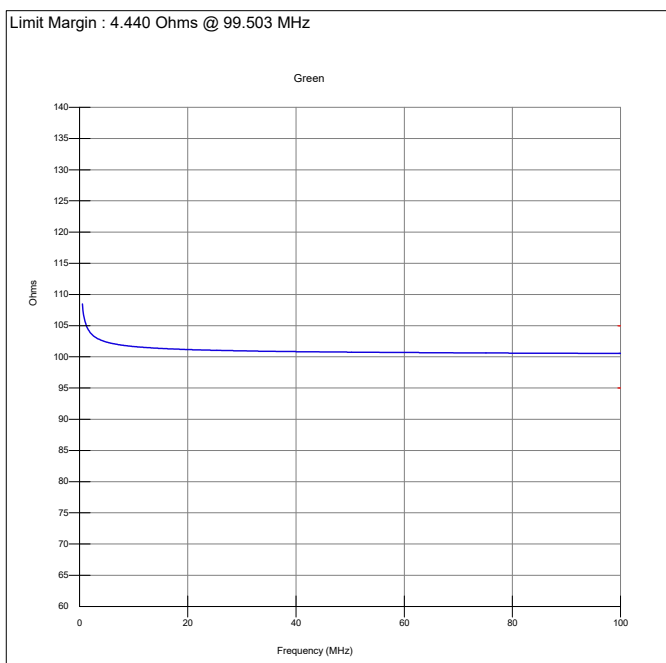
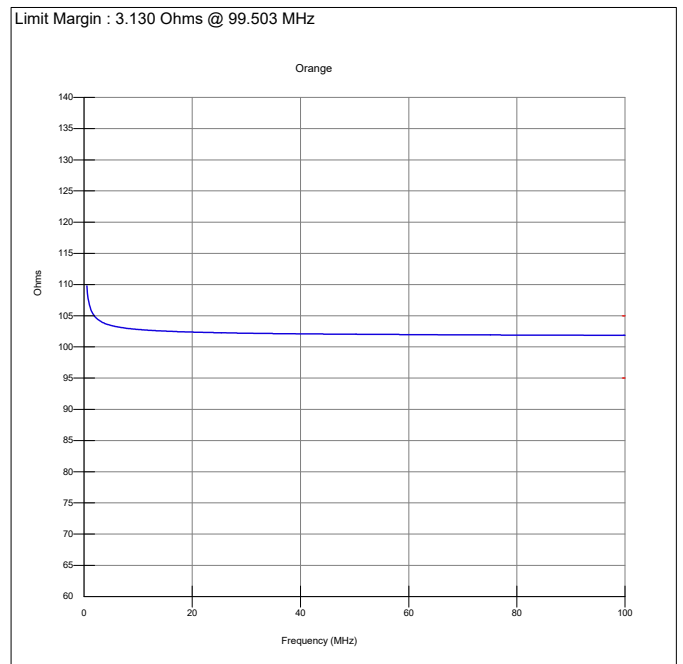
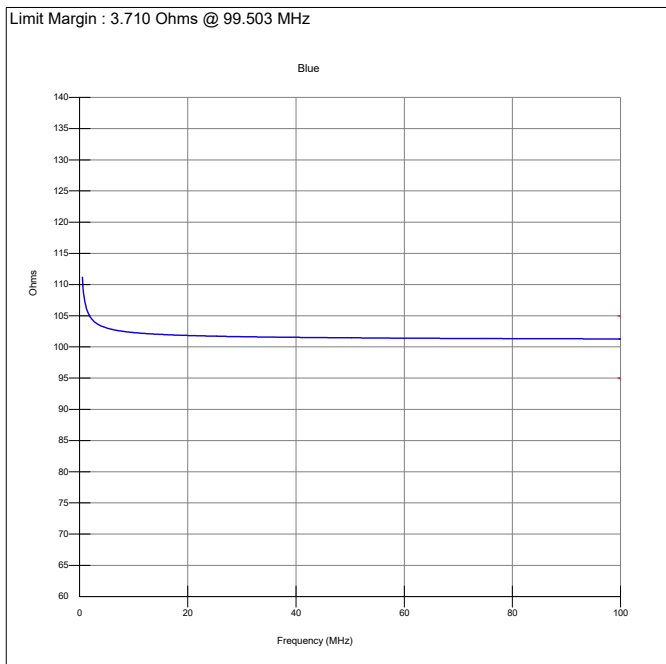
## Impedance - Far End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies



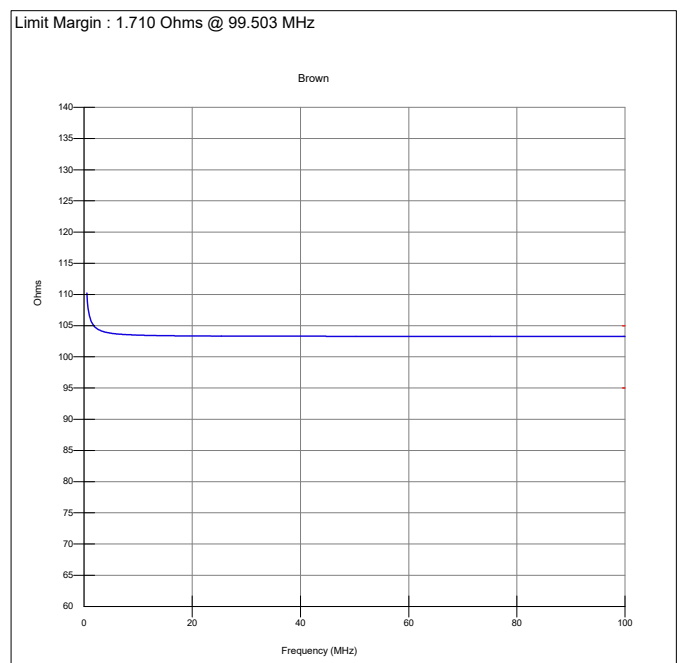
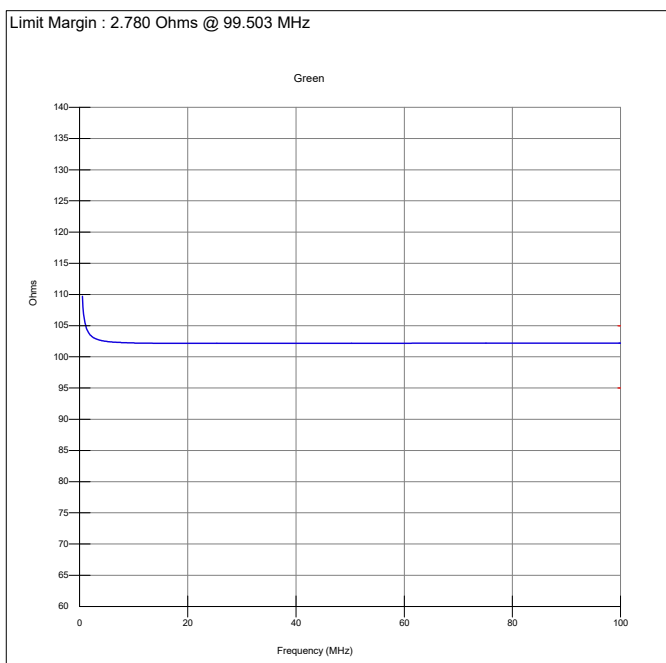
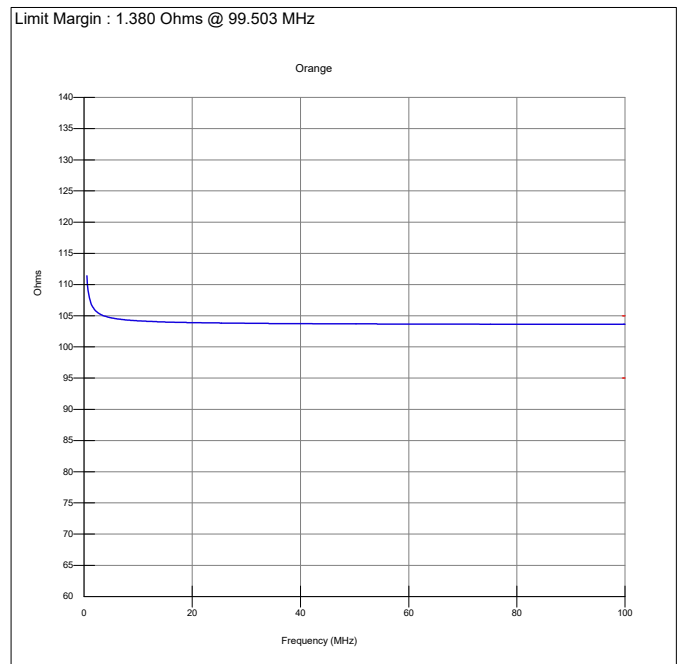
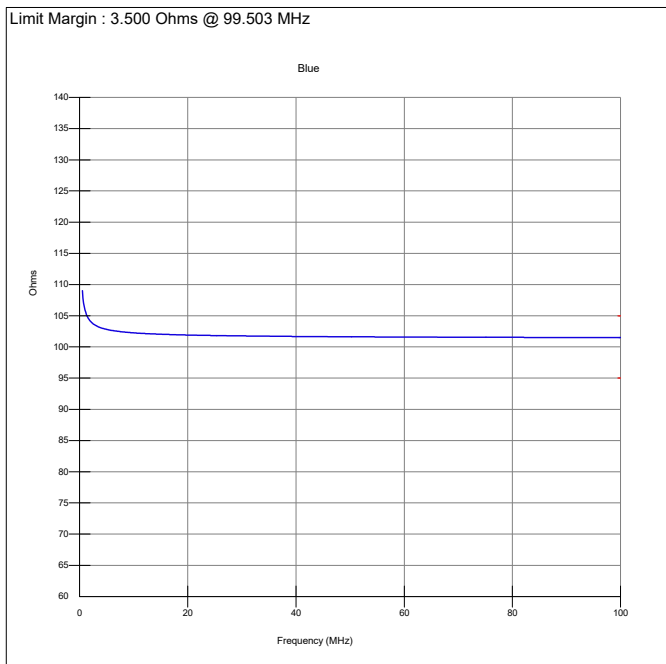
## Fitted Impedance - Near End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)	<b>Length (m)</b>	100.
<b>Part No</b>	FA0424AUC5EV	<b>Temperature</b>	23 °C
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers		



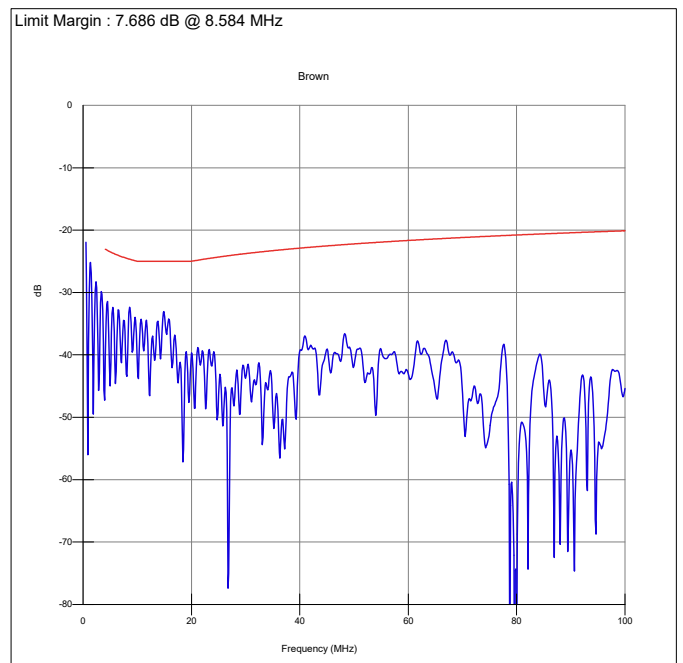
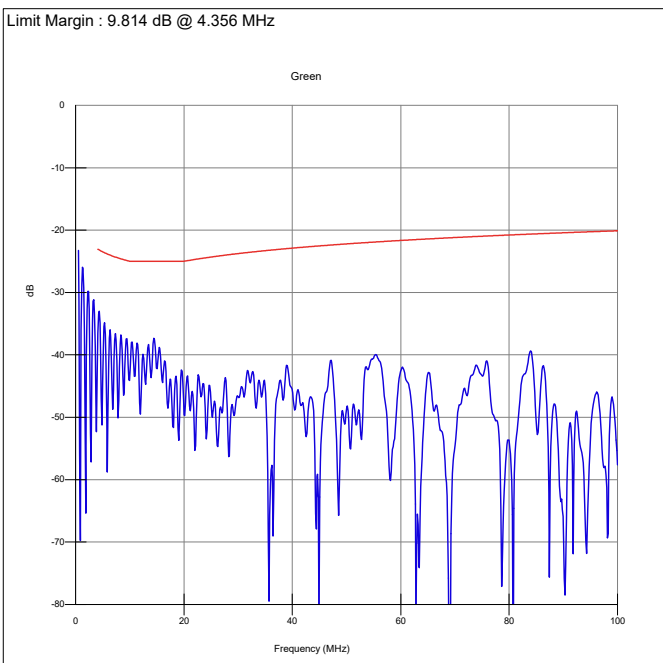
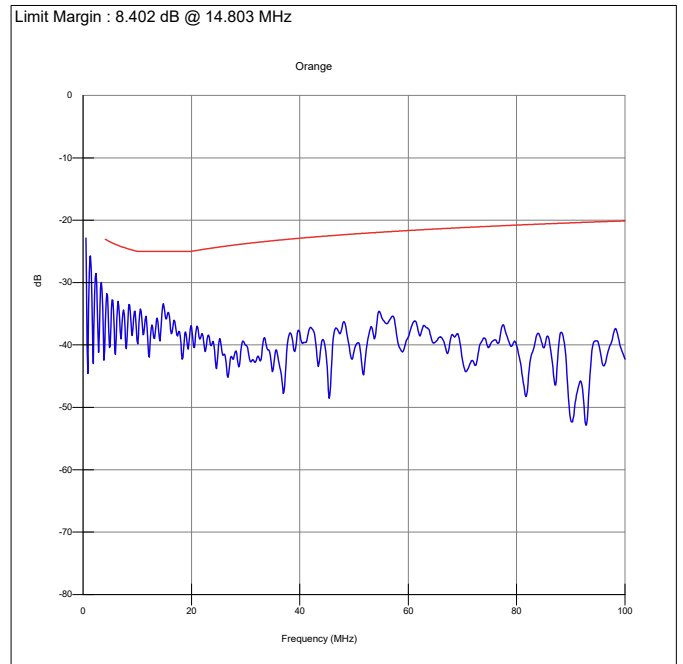
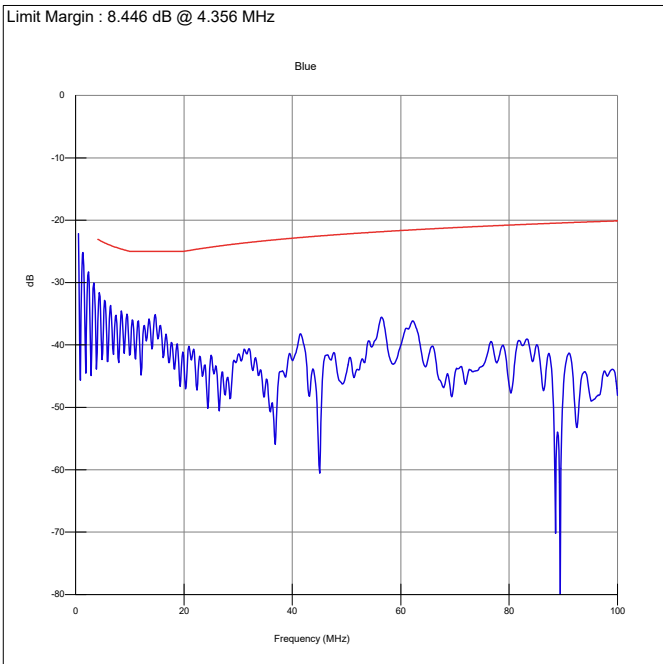
## Fitted Impedance - Far End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)	<b>Length (m)</b>	100.
<b>Part No</b>	FA0424AUC5EV	<b>Temperature</b>	23 °C
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers		



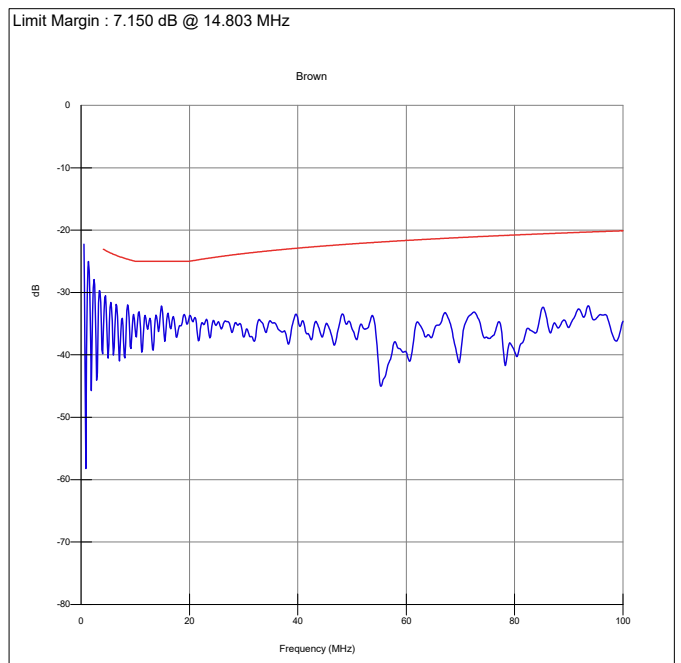
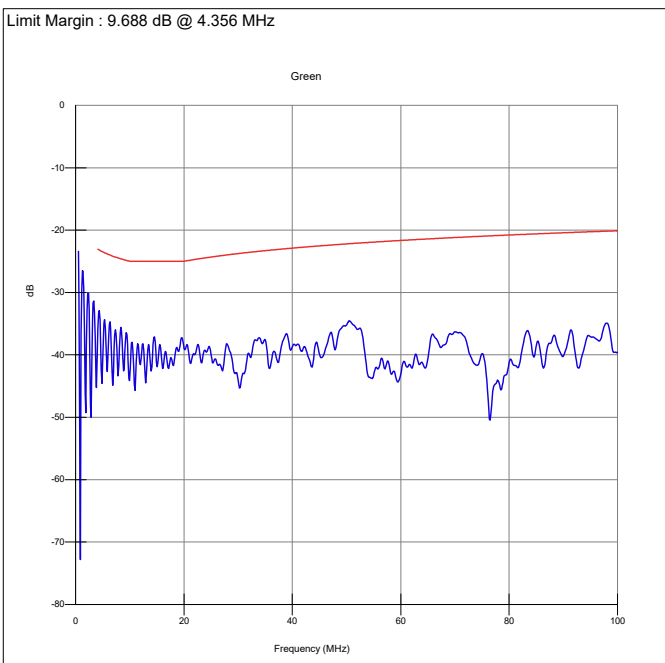
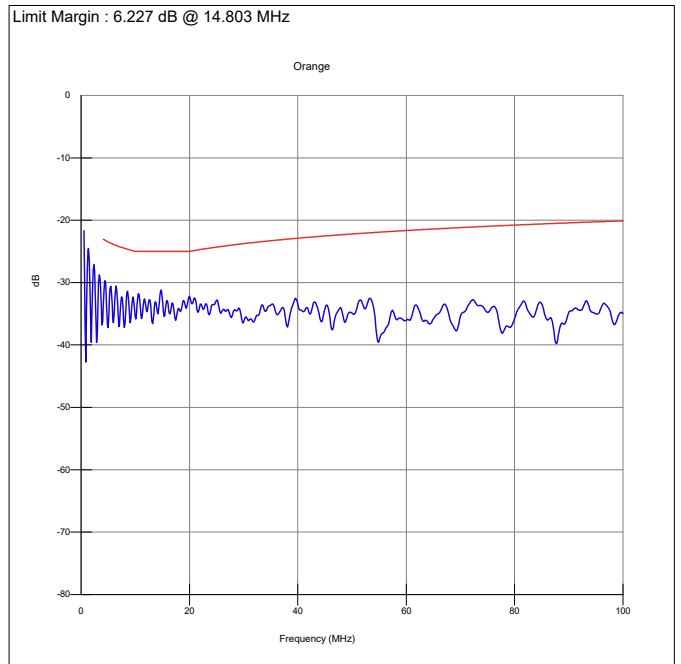
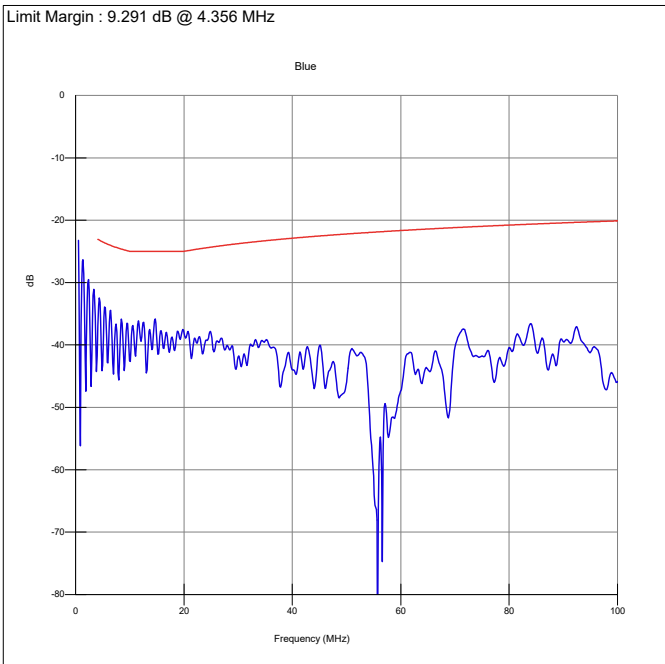
## Return Loss - Near End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)	<b>Length (m)</b>	100.
<b>Part No</b>	FA0424AUC5EV	<b>Temperature</b>	23 °C
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers		



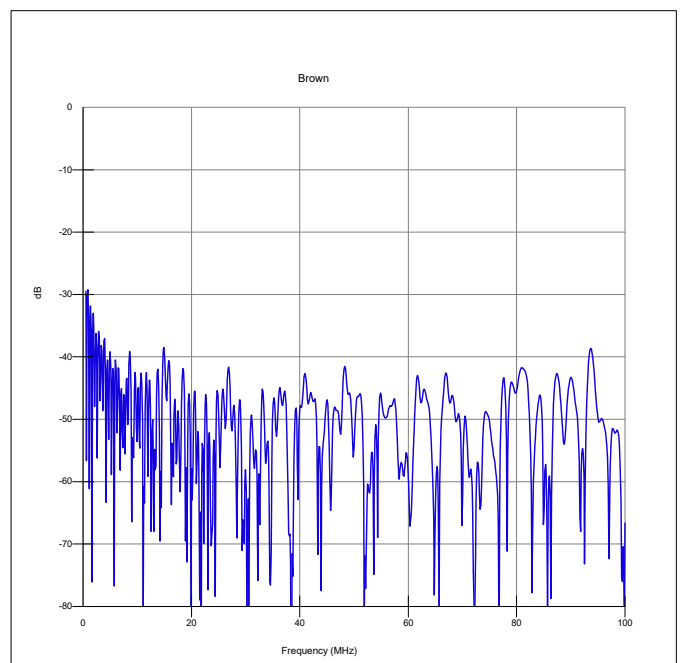
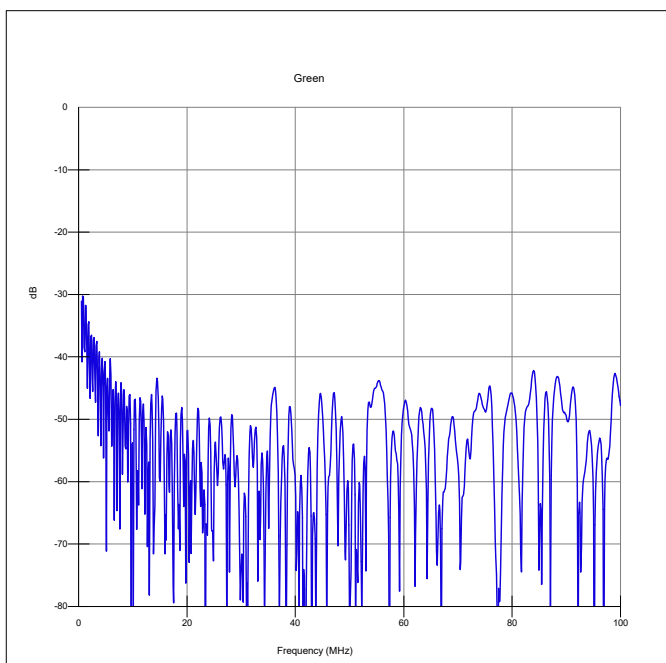
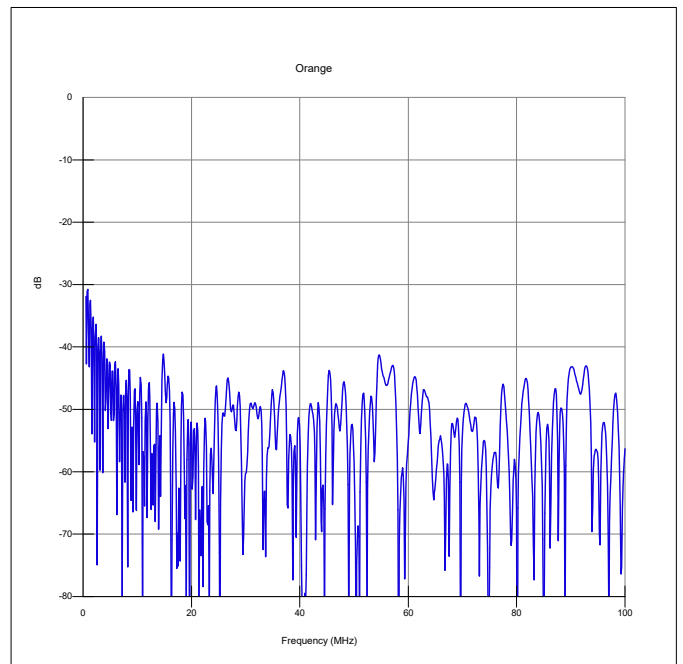
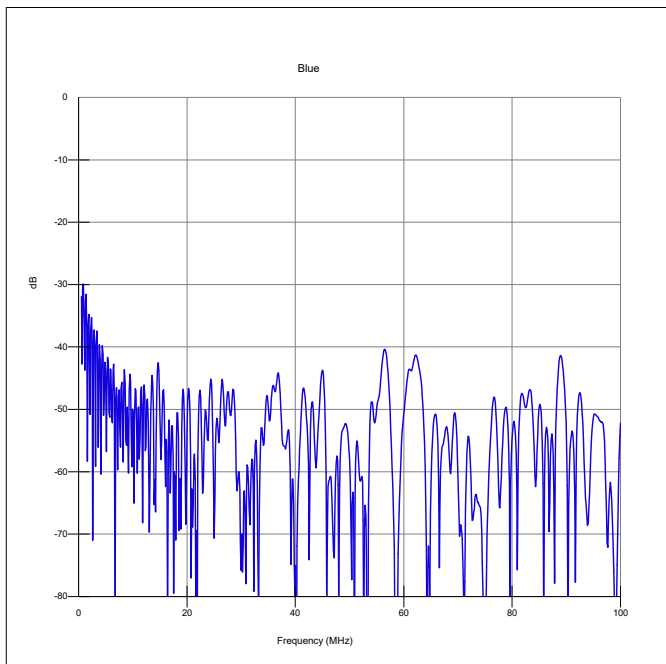
## Return Loss - Far End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)	<b>Length (m)</b>	100.
<b>Part No</b>	FA0424AUC5EV	<b>Temperature</b>	23 °C
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers		



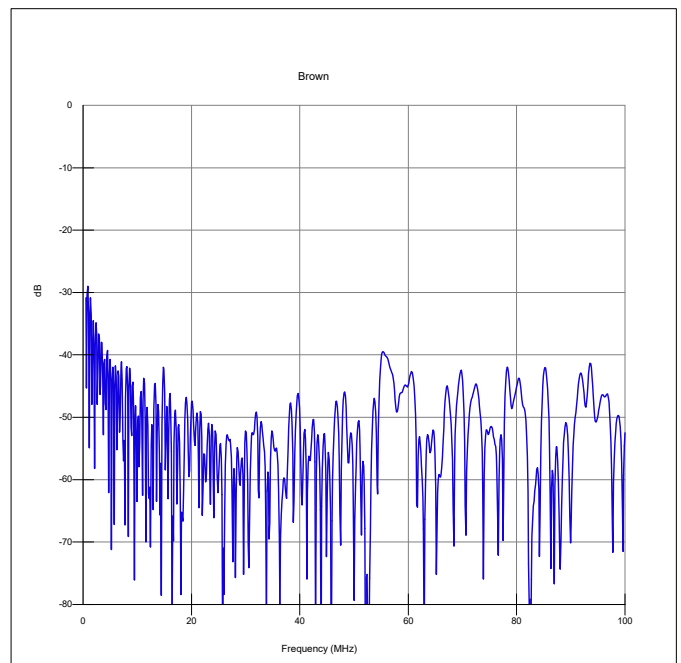
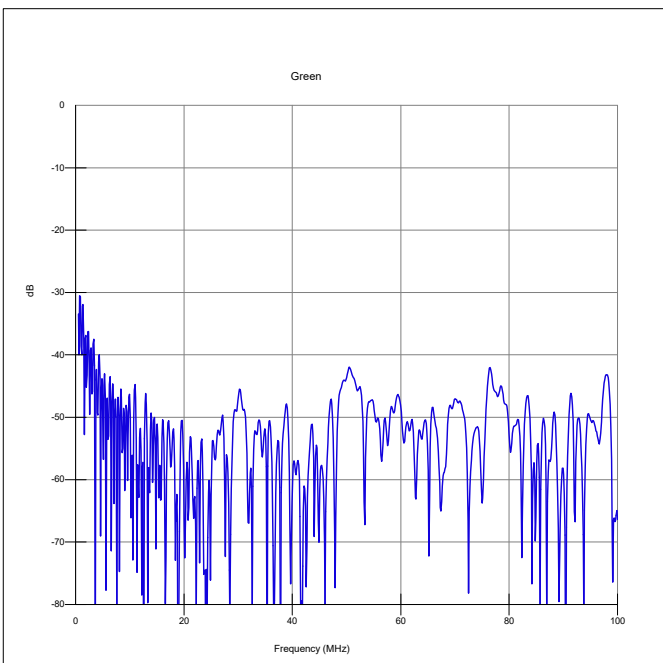
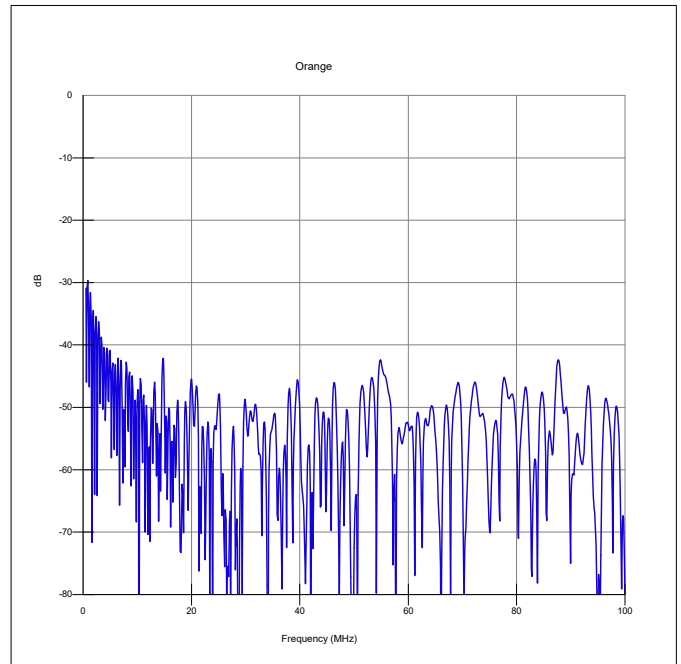
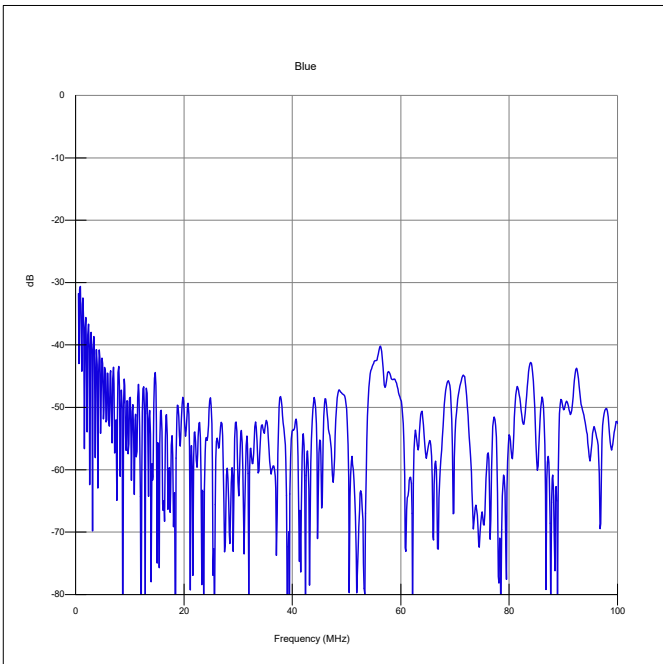
## SRL - Near End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)	<b>Length (m)</b>	100.
<b>Part No</b>	FA0424AUC5EV	<b>Temperature</b>	23 °C
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers		



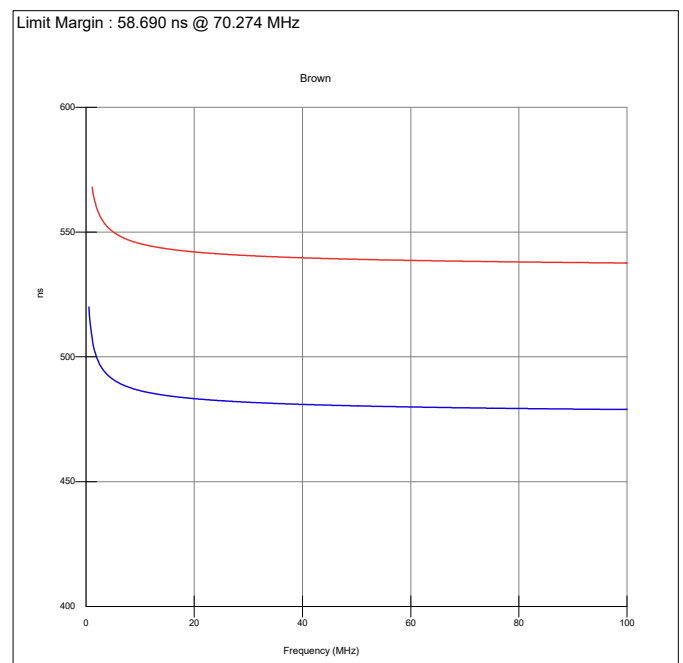
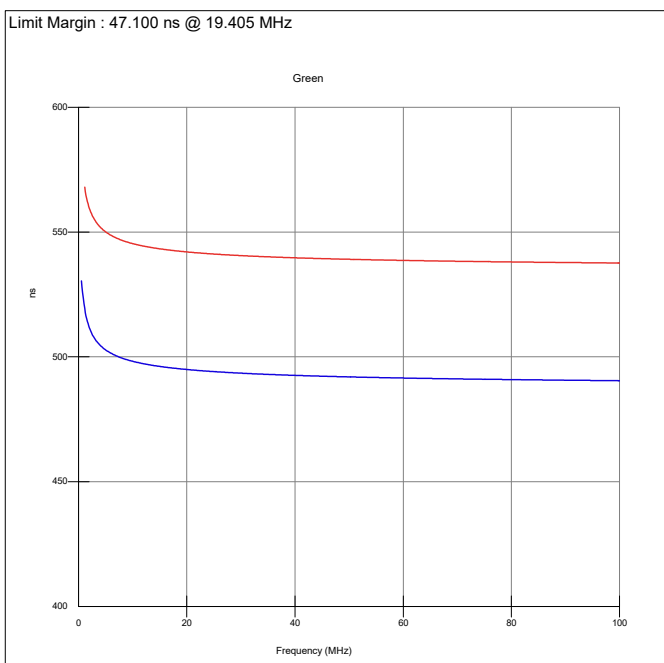
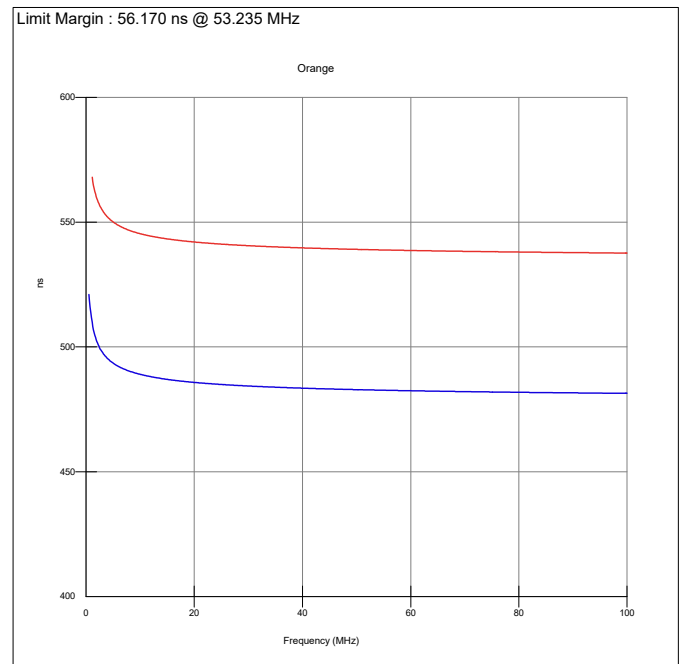
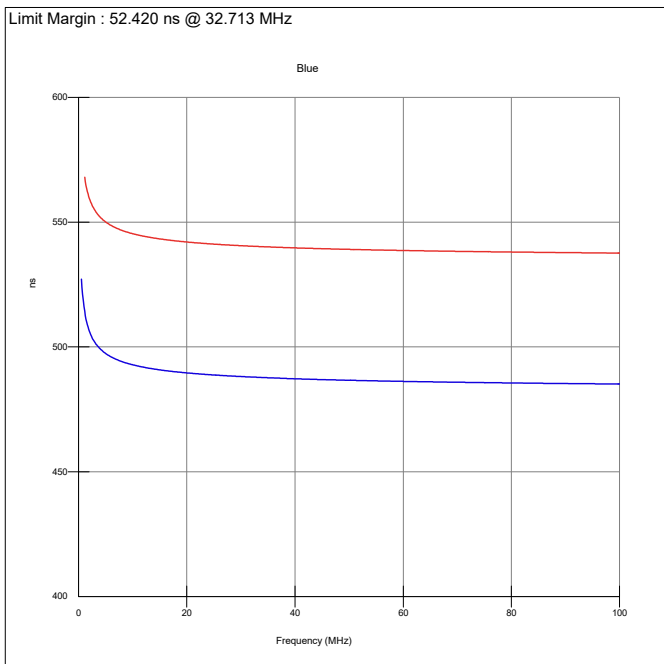
## SRL - Far End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)	<b>Length (m)</b>	100.
<b>Part No</b>	FA0424AUC5EV	<b>Temperature</b>	23 °C
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers		



## Propagation Delay - Near End

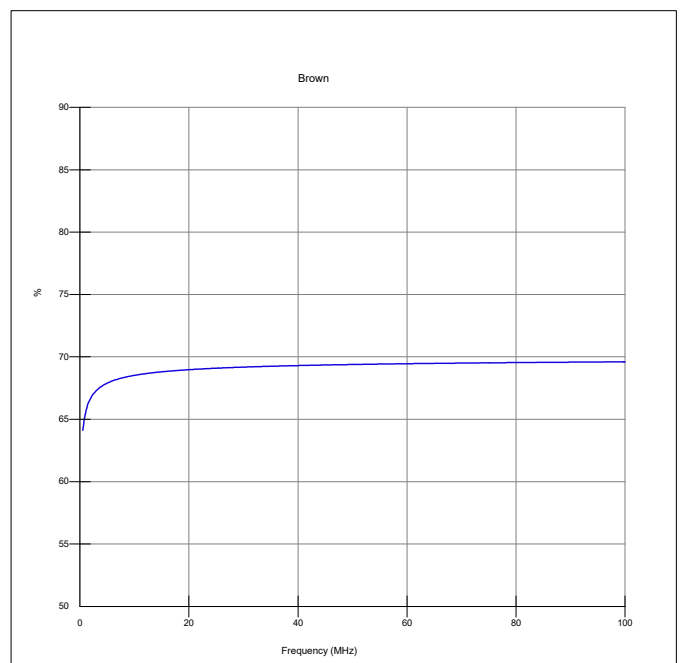
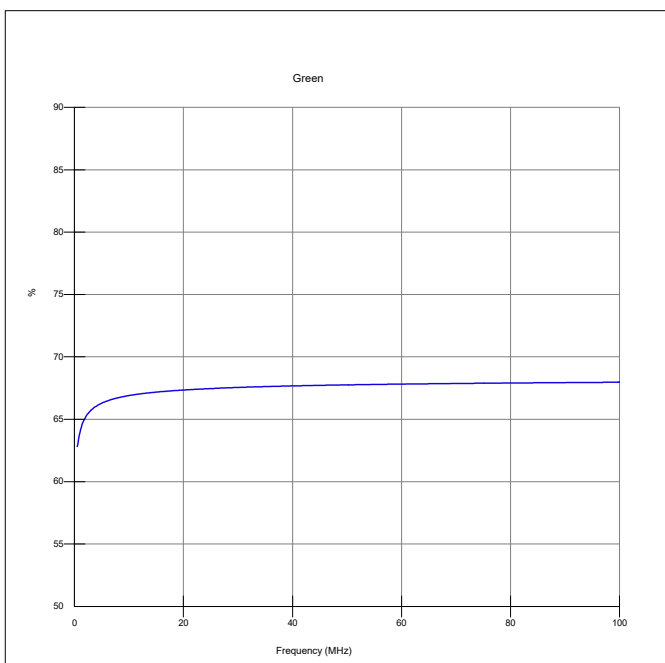
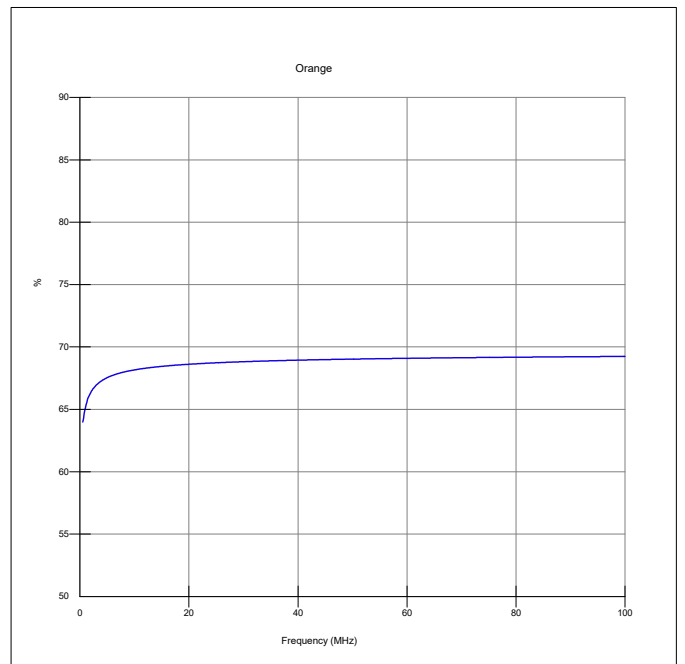
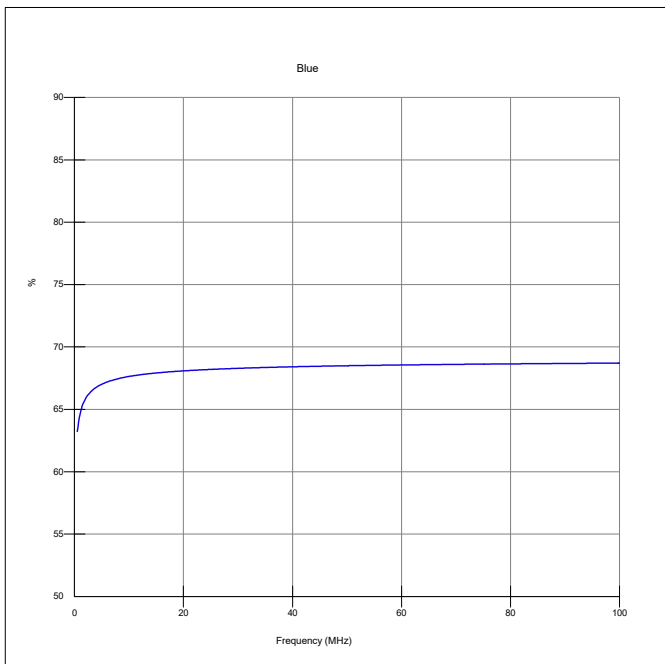
<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)	<b>Length (m)</b>	100.
<b>Part No</b>	FA0424AUC5EV	<b>Temperature</b>	23 °C
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers		





## Velocity of Propagation - Near End

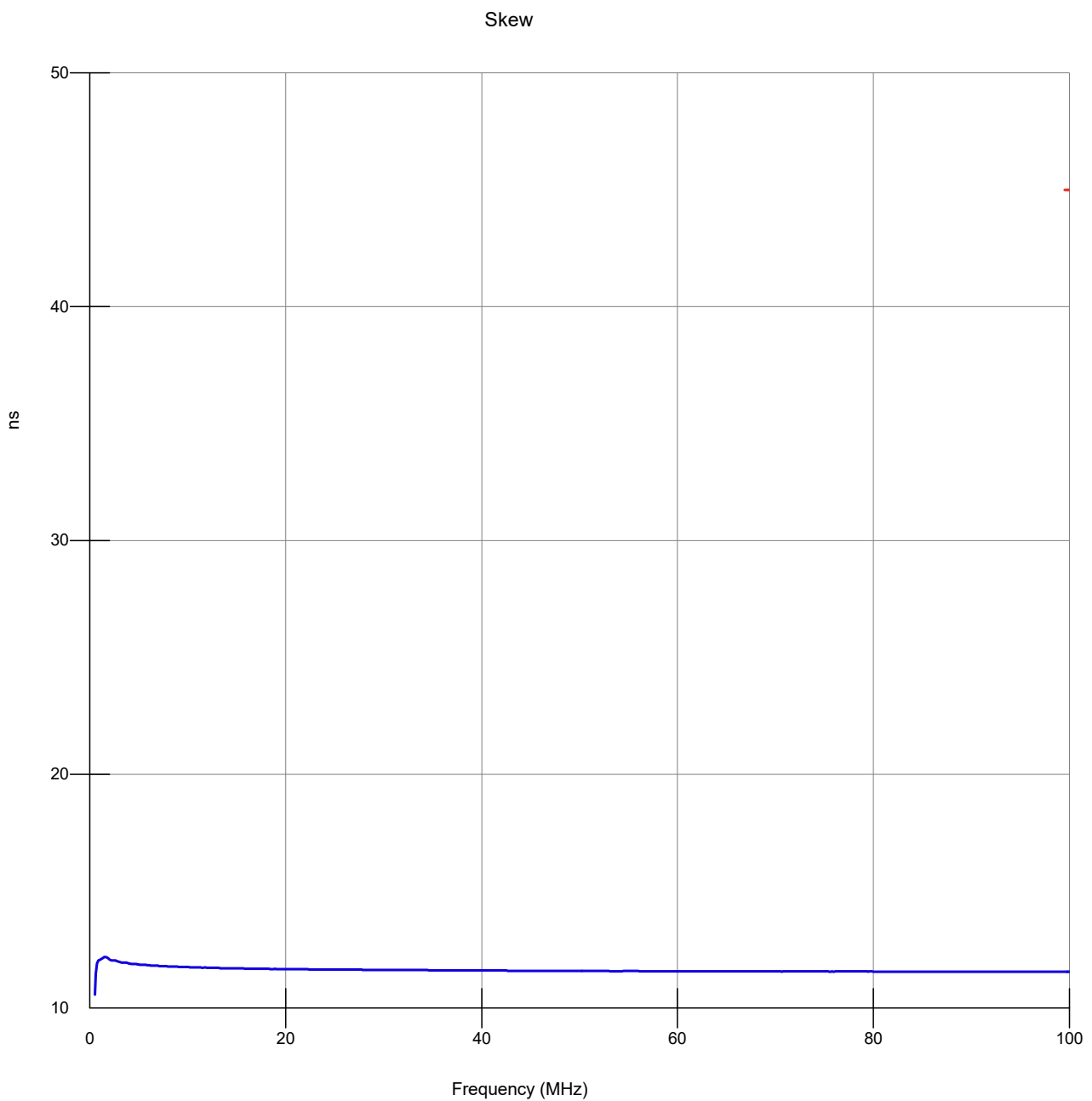
<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)	<b>Length (m)</b>	100.
<b>Part No</b>	FA0424AUC5EV	<b>Temperature</b>	23 °C
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers		



## Propagation Delay Skew - Near End

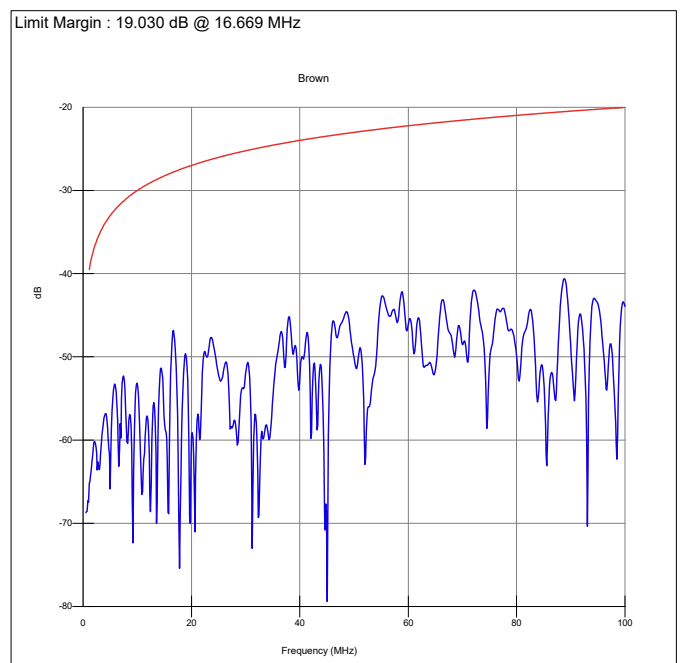
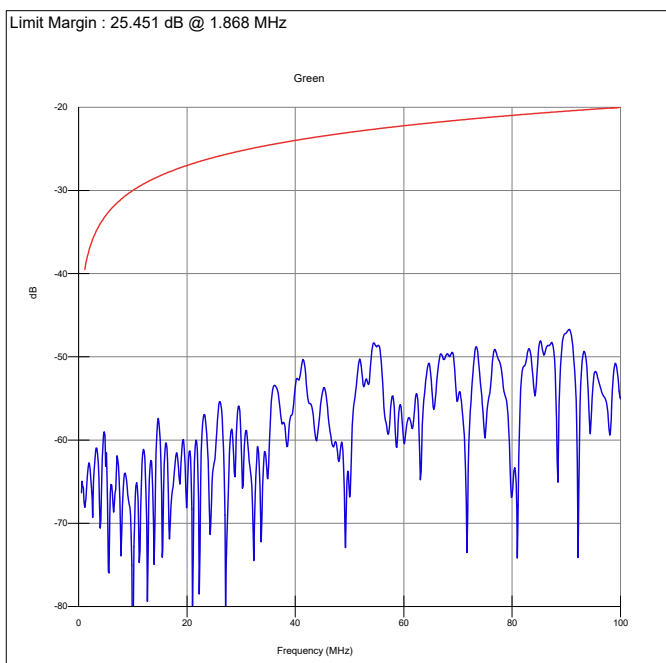
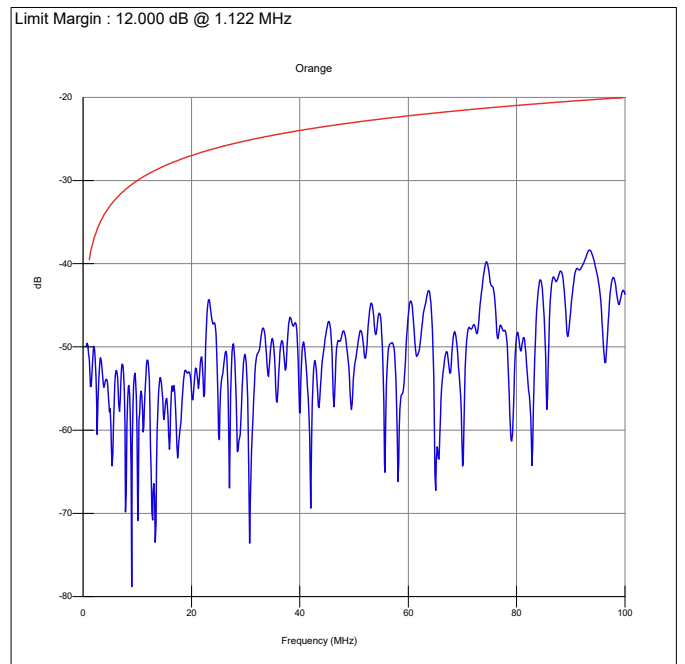
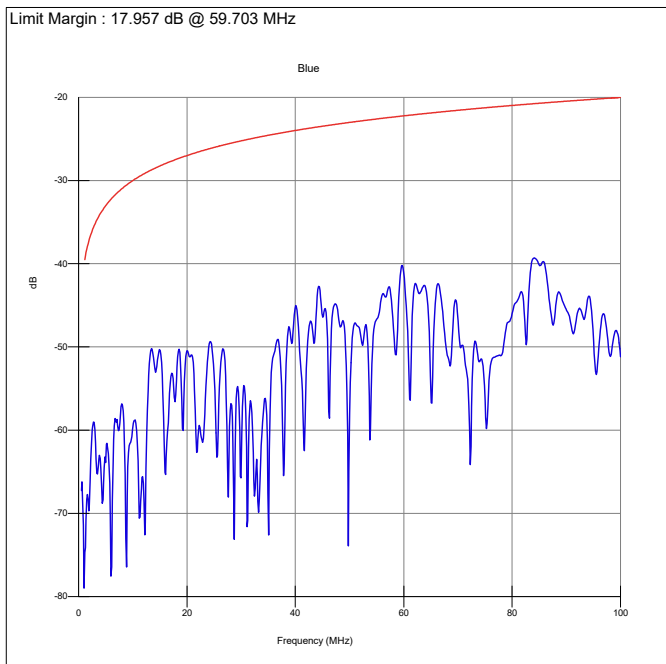
<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies

Limit Margin : 33.452 ns @ 99.503 MHz



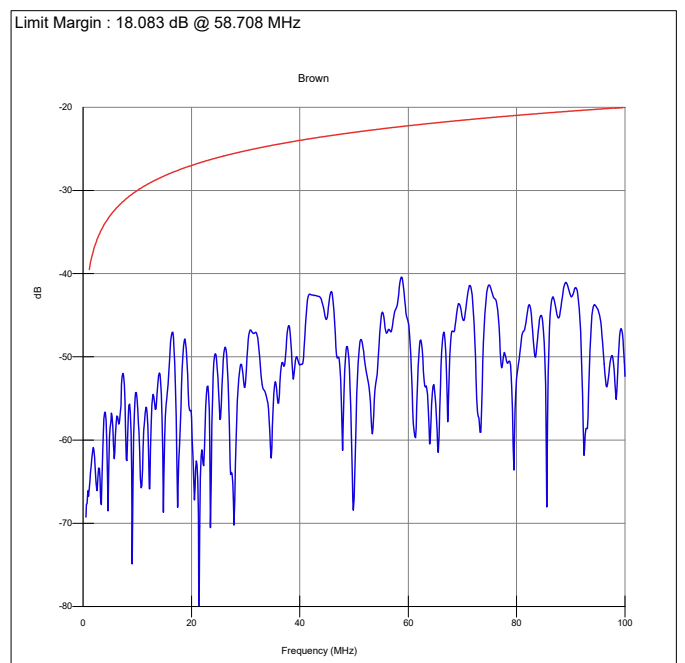
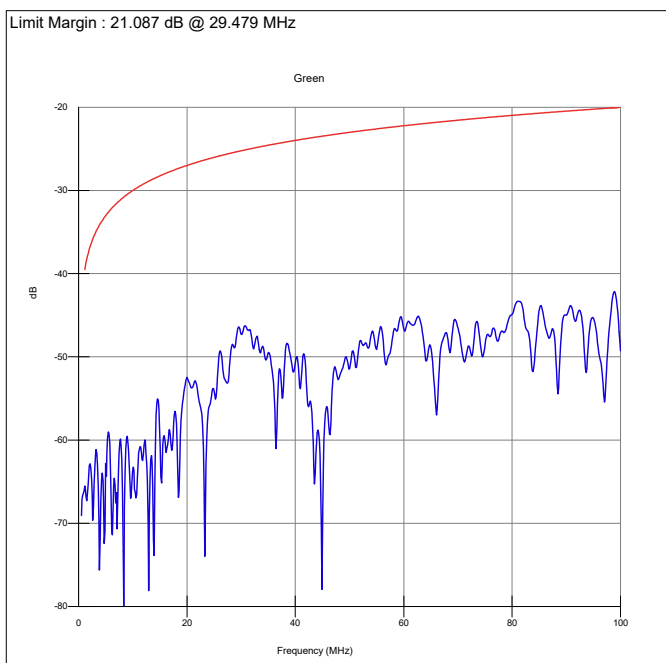
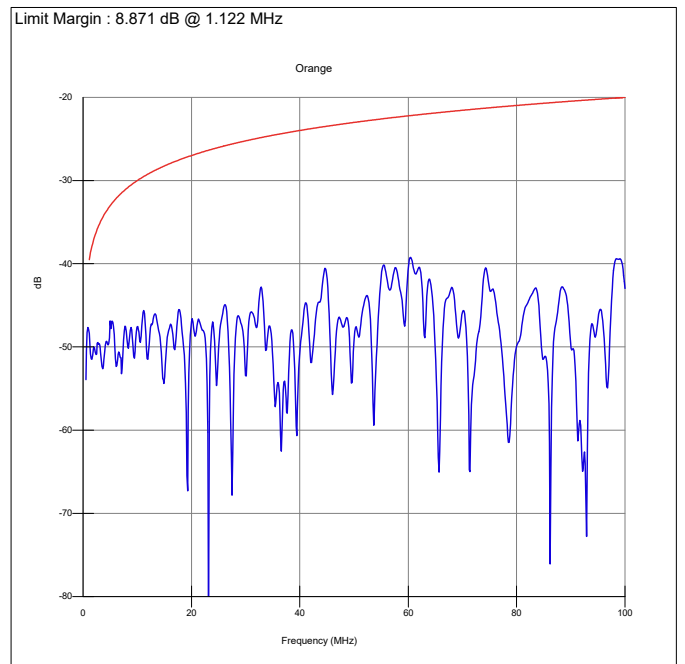
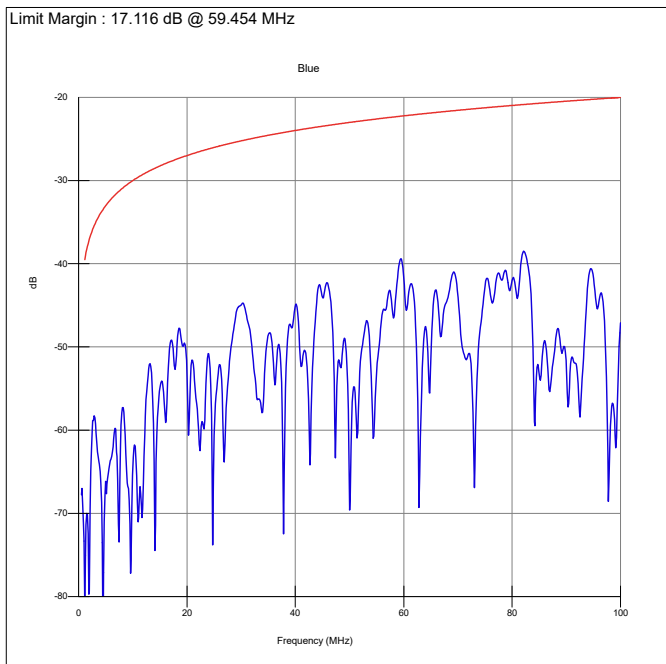
## TCL - Near End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)	<b>Length (m)</b>	100.
<b>Part No</b>	FA0424AUC5EV	<b>Temperature</b>	23 °C
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers		



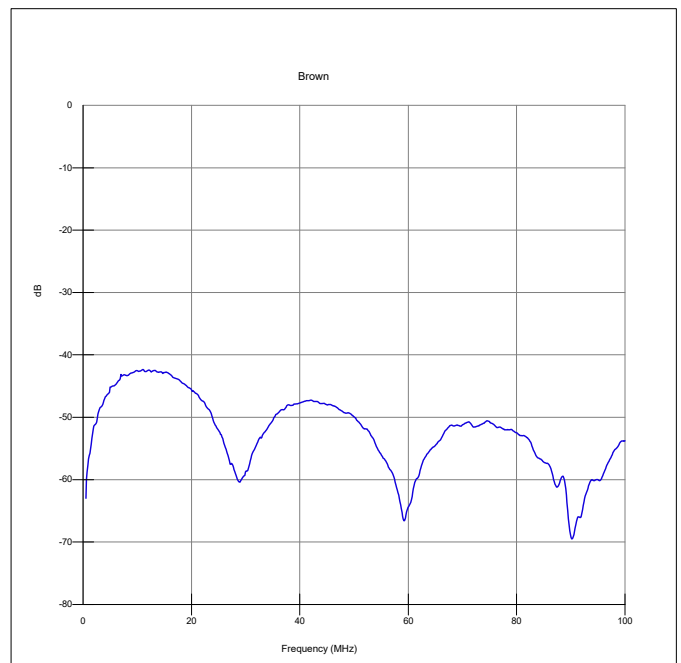
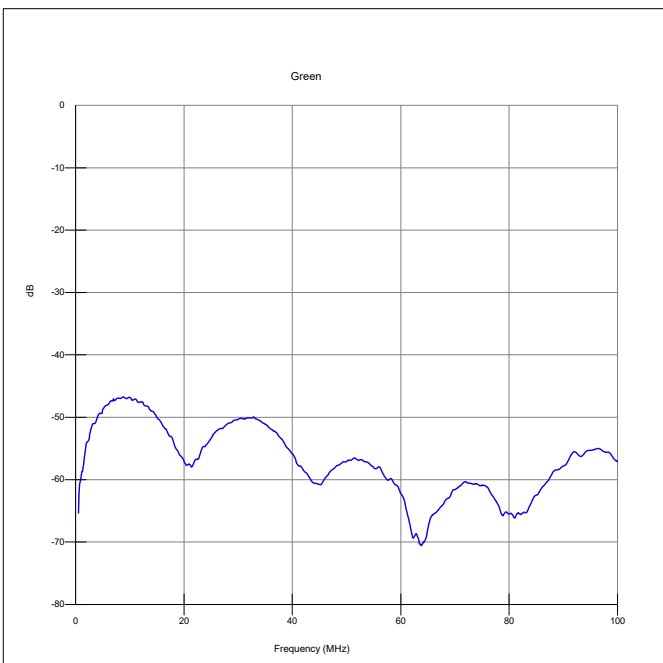
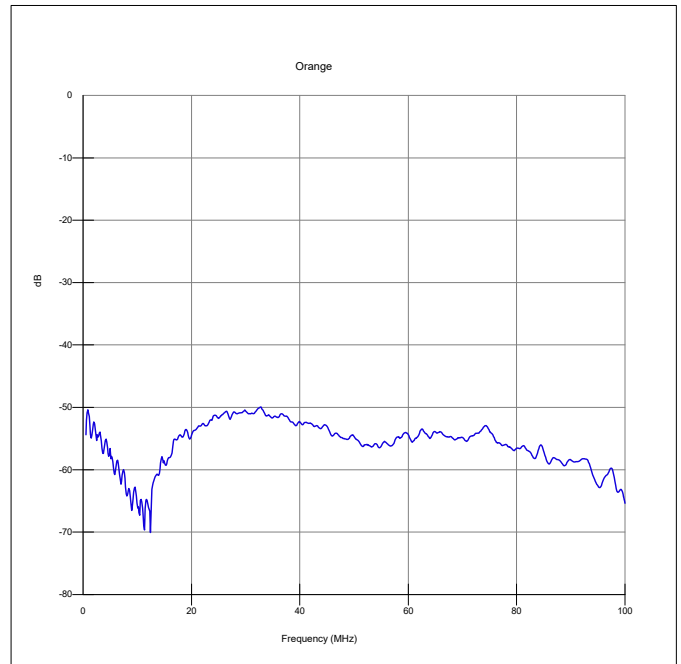
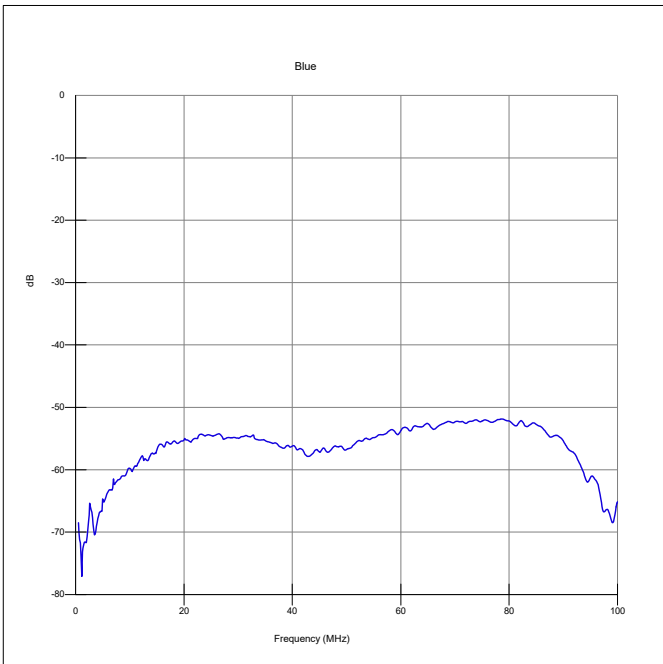
## TCL - Far End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)	<b>Length (m)</b>	100.
<b>Part No</b>	FA0424AUC5EV	<b>Temperature</b>	23 °C
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers		



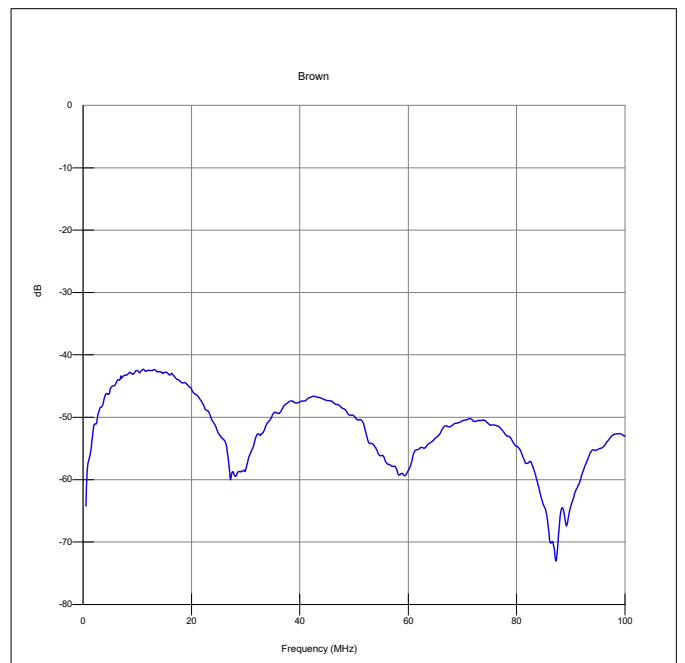
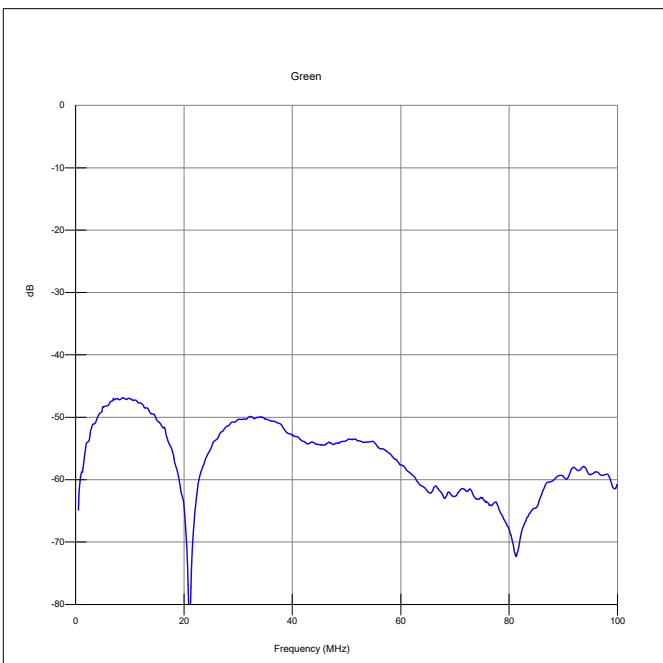
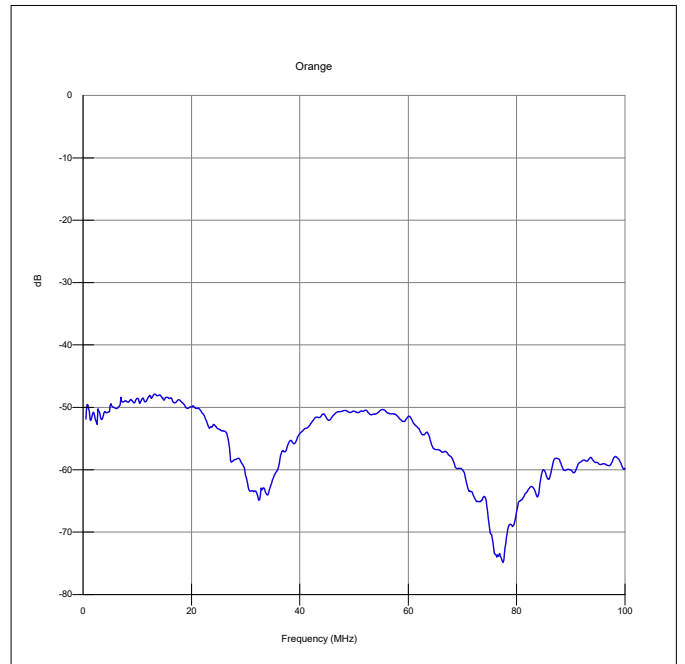
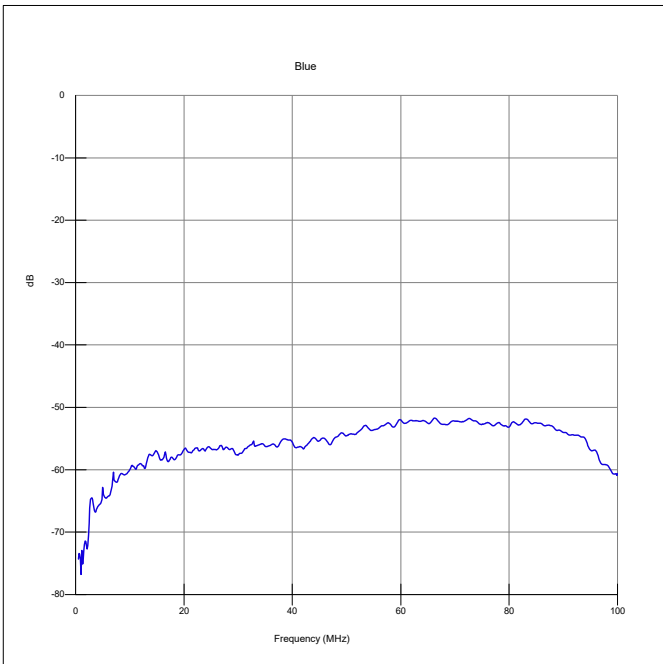
## TCTL - Near End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)	<b>Length (m)</b>	100.
<b>Part No</b>	FA0424AUC5EV	<b>Temperature</b>	23 °C
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers		



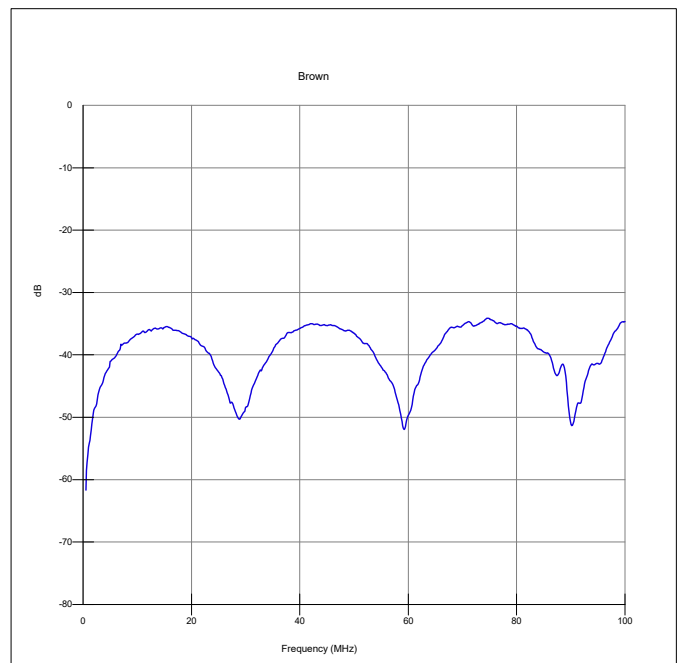
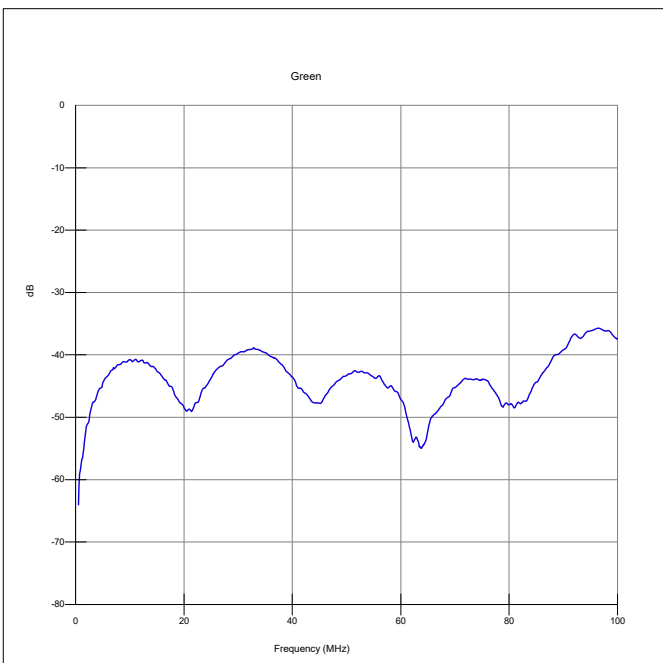
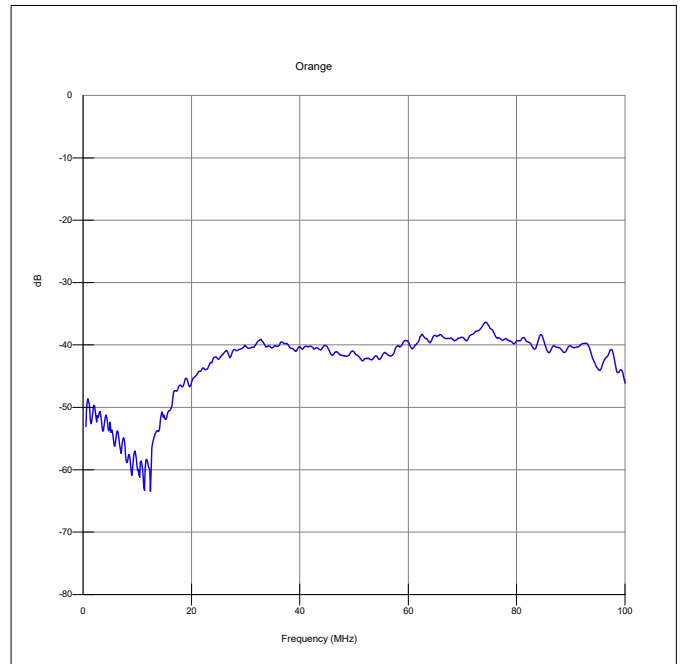
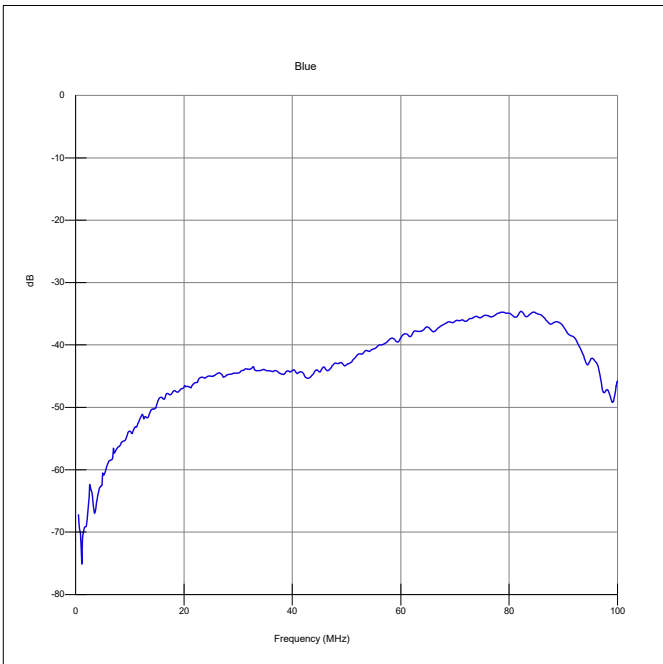
## TCTL - Far End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies



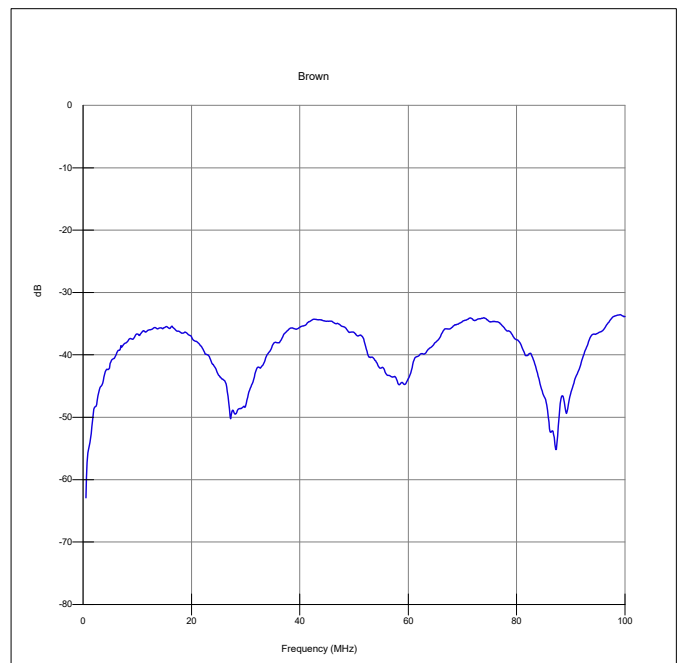
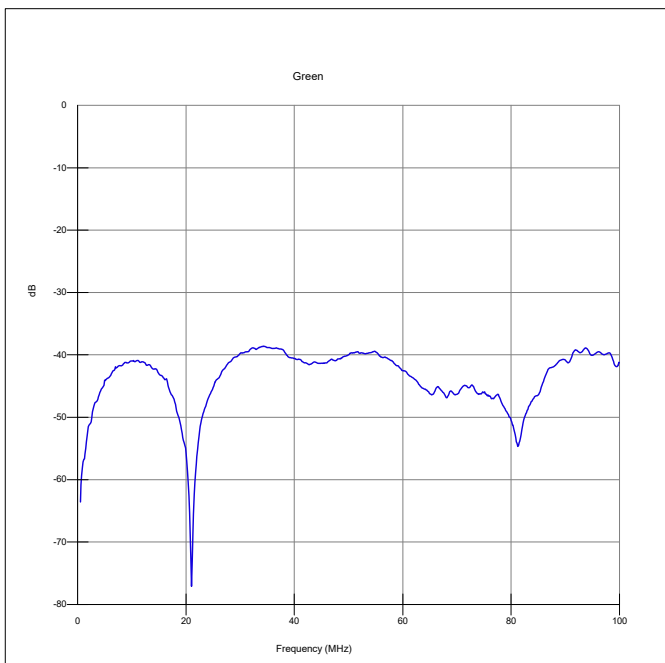
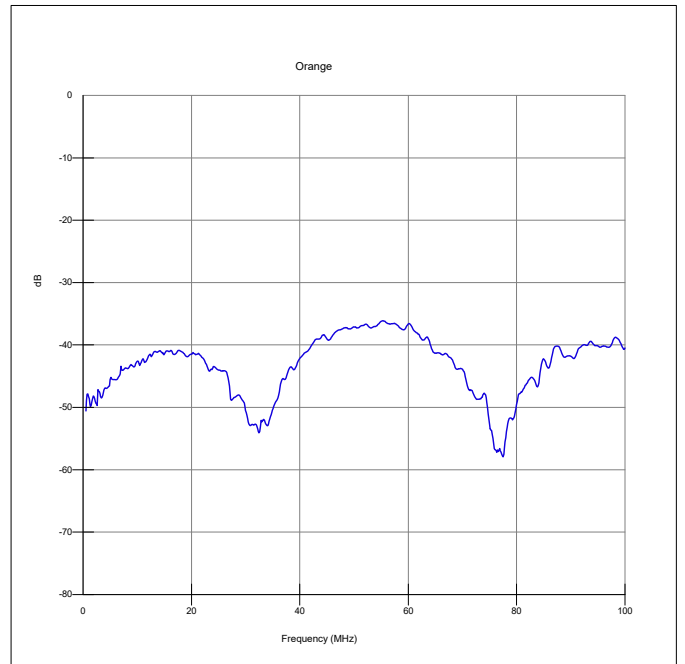
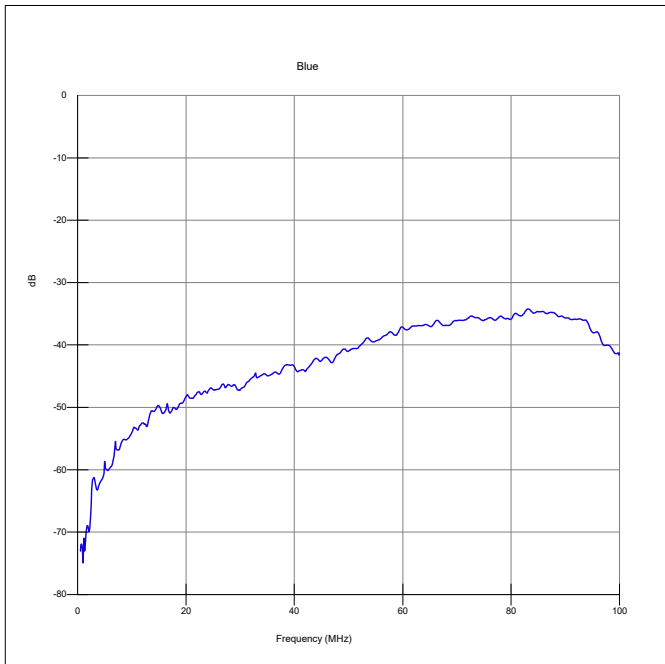
## ELTCTL - Near End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)	<b>Length (m)</b>	100.
<b>Part No</b>	FA0424AUC5EV	<b>Temperature</b>	23 °C
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers		



## ELTCTL - Far End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/19/2018 3:15:11 PM	<b>Temperature</b>	23 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	David Ayers	<b>Test Status</b>	Complies







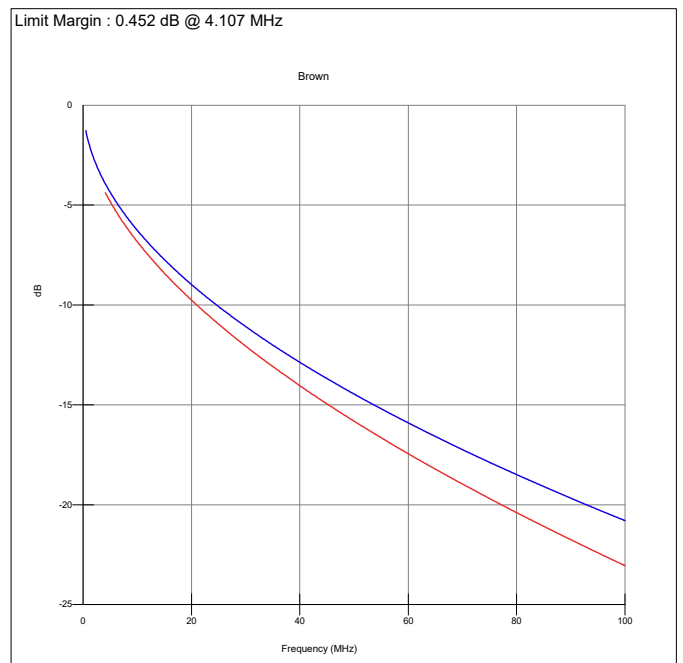
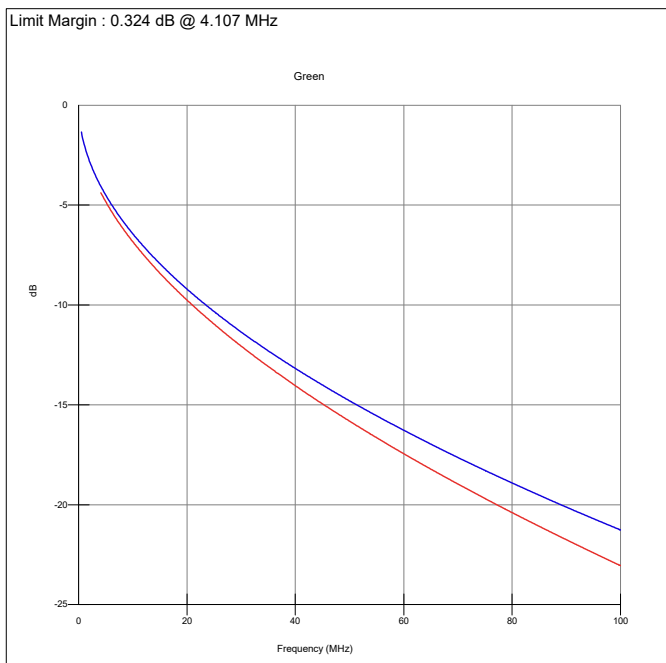
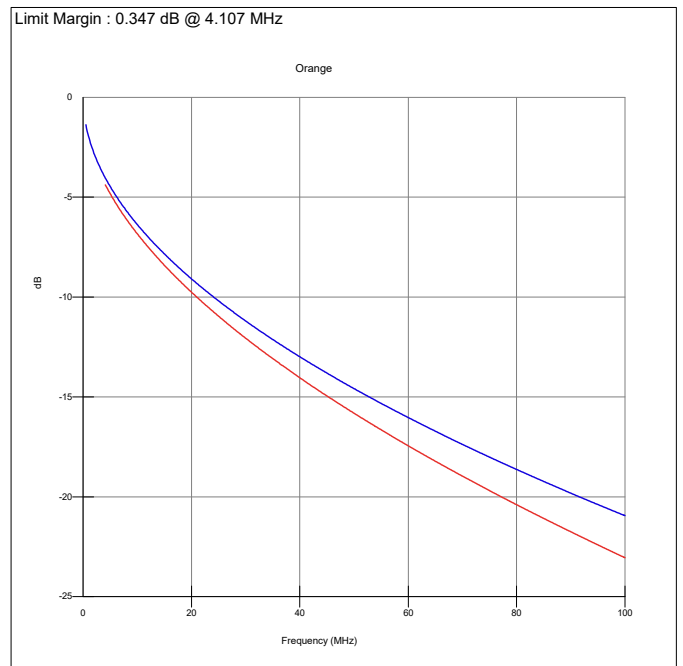
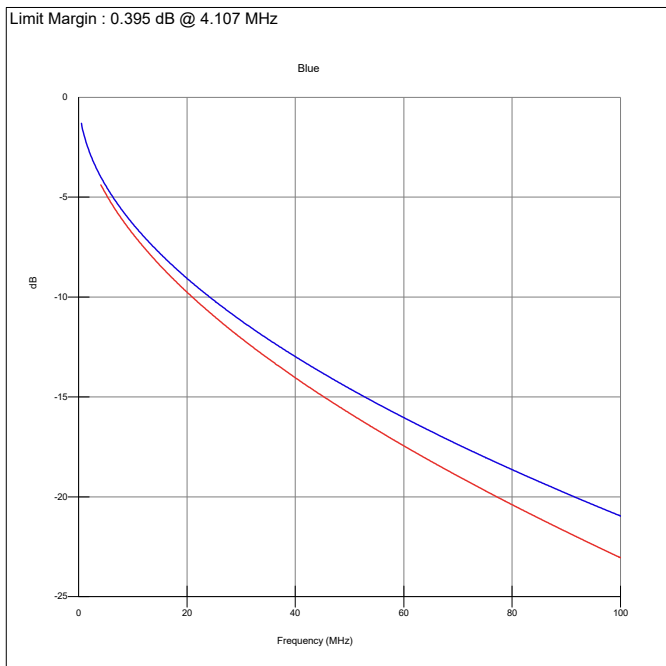
## Insertion Loss

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c@40C
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/20/2018 11:08:59 AM	<b>Temperature</b>	40 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	Craig Williams	<b>Test Status</b>	Complies

Insertion Loss (dB)					
Freq (MHz)	Limit	Blue	Orange	Green	Brown
1.		-1.90	-1.96	-1.94	-1.85
4.		-3.94	-3.99	-4.01	-3.88
8.	-6.11	-5.64	-5.68	-5.74	-5.58
10.	-6.83	-6.33	-6.37	-6.44	-6.26
16.	-8.69	-8.08	-8.10	-8.20	-7.99
20.	-9.76	-9.06	-9.09	-9.21	-8.98
25.	-10.96	-10.17	-10.19	-10.33	-10.08
31.25	-12.32	-11.42	-11.44	-11.60	-11.32
62.5	-17.84	-16.39	-16.38	-16.63	-16.25
100.	-23.06	-20.96	-20.95	-21.27	-20.80

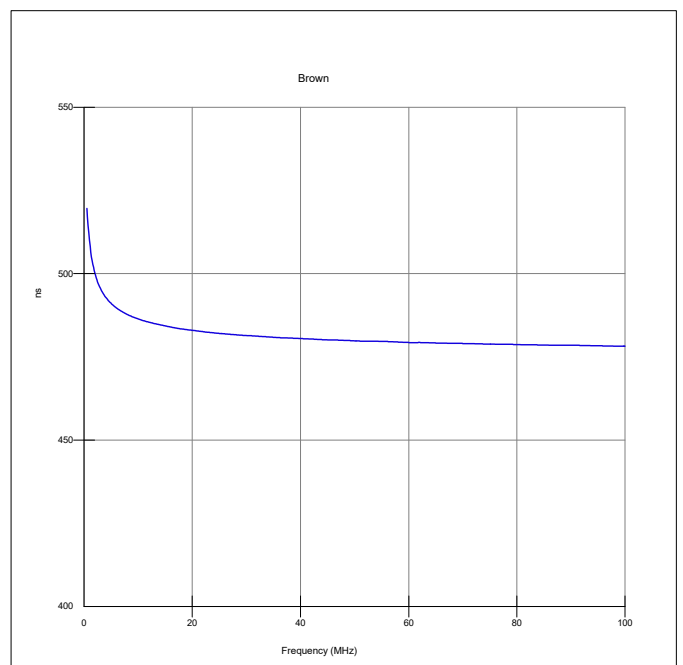
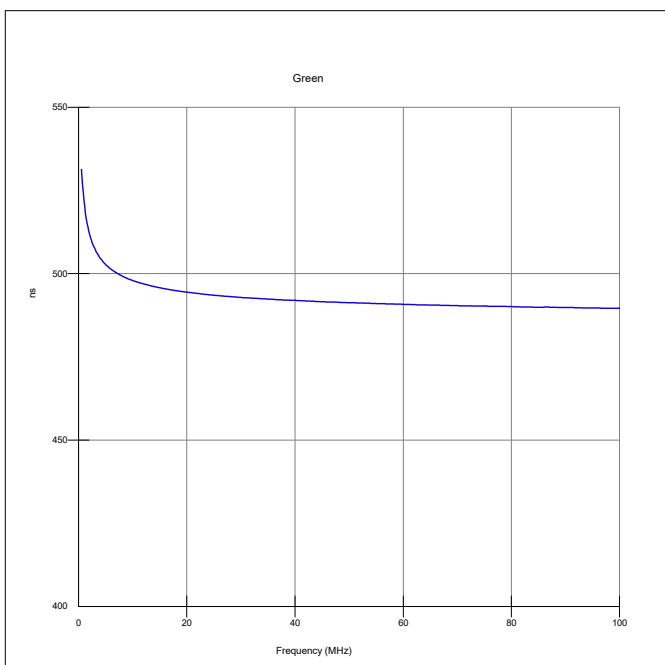
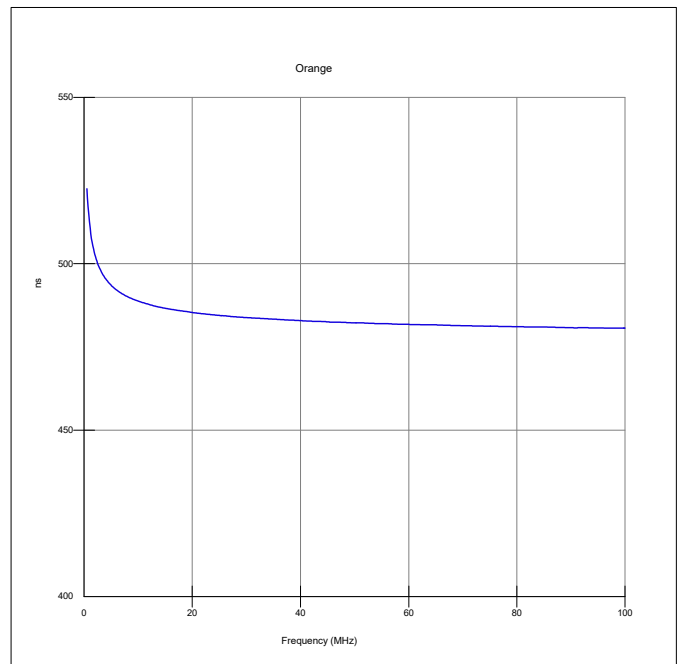
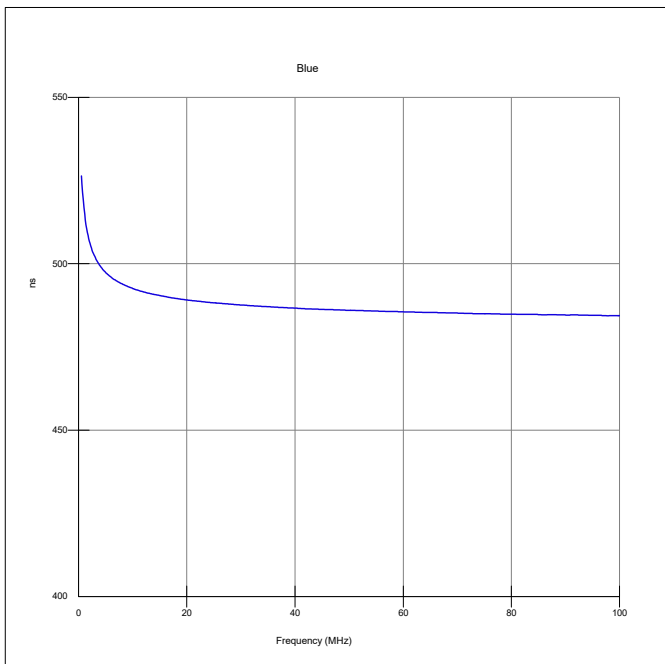
## Insertion Loss

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c@40C
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)	<b>Length (m)</b>	100.
<b>Part No</b>	FA0424AUC5EV	<b>Temperature</b>	40 °C
<b>Test Started</b>	12/20/2018 11:08:59 AM	<b>Test Status</b>	Complies
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	Craig Williams		



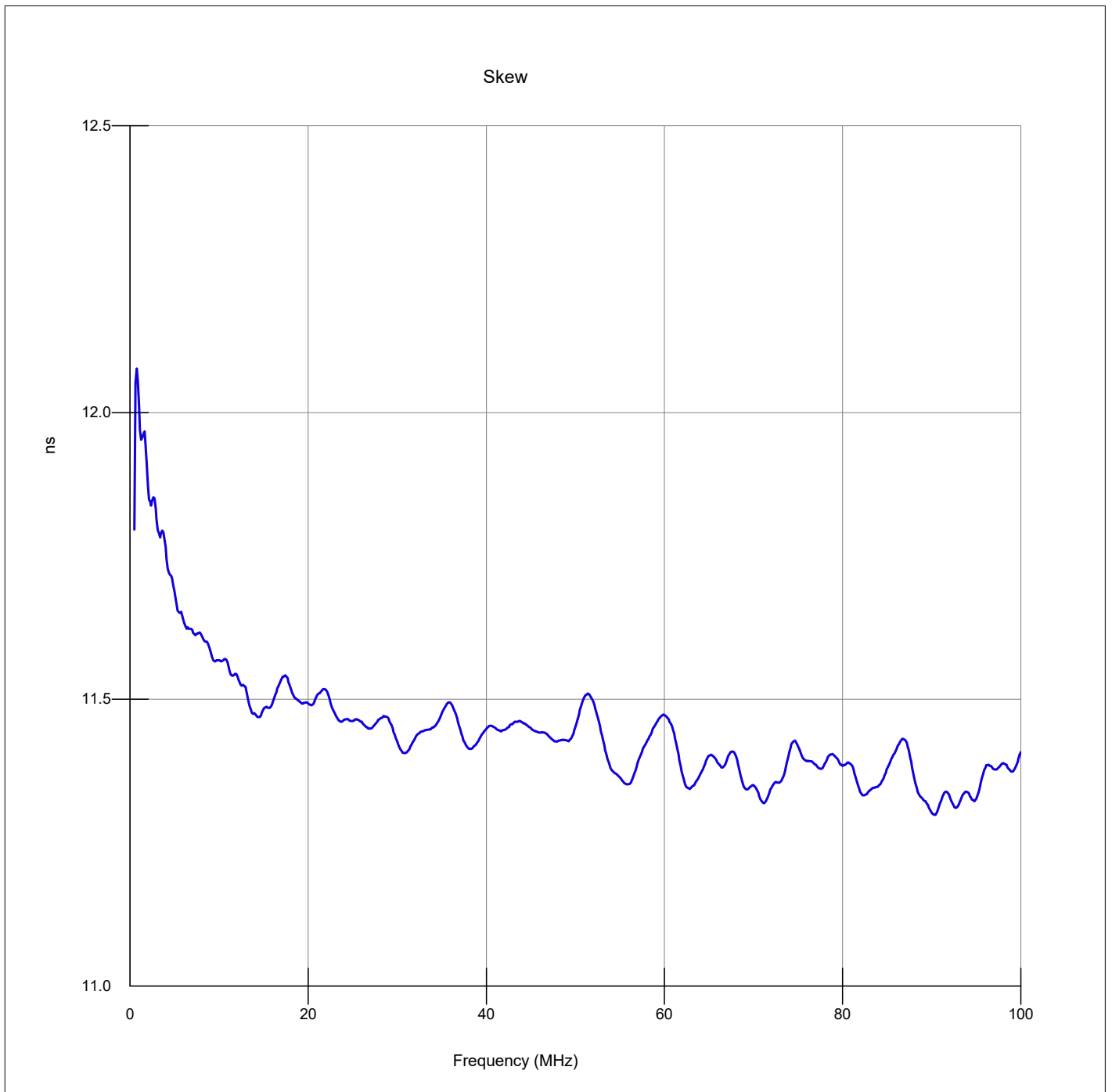
## Propagation Delay - Near End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c@40C
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)	<b>Length (m)</b>	100.
<b>Part No</b>	FA0424AUC5EV	<b>Temperature</b>	40 °C
<b>Test Started</b>	12/20/2018 11:08:59 AM	<b>Test Status</b>	Complies
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	Craig Williams		



## Propagation Delay Skew - Near End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c@40C
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/20/2018 11:08:59 AM	<b>Temperature</b>	40 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	Craig Williams	<b>Test Status</b>	Complies





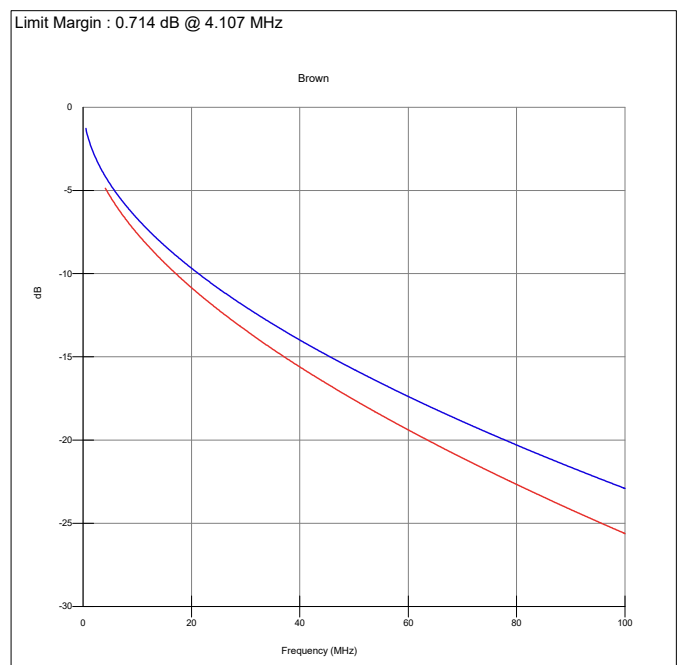
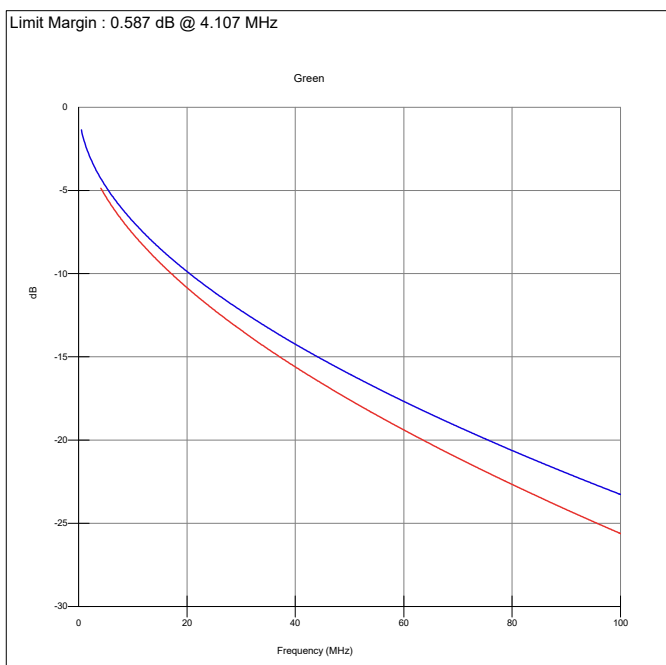
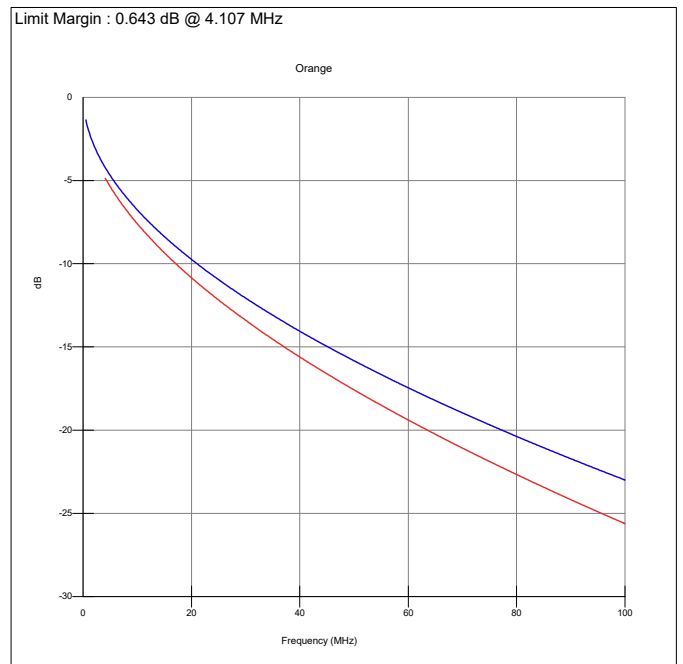
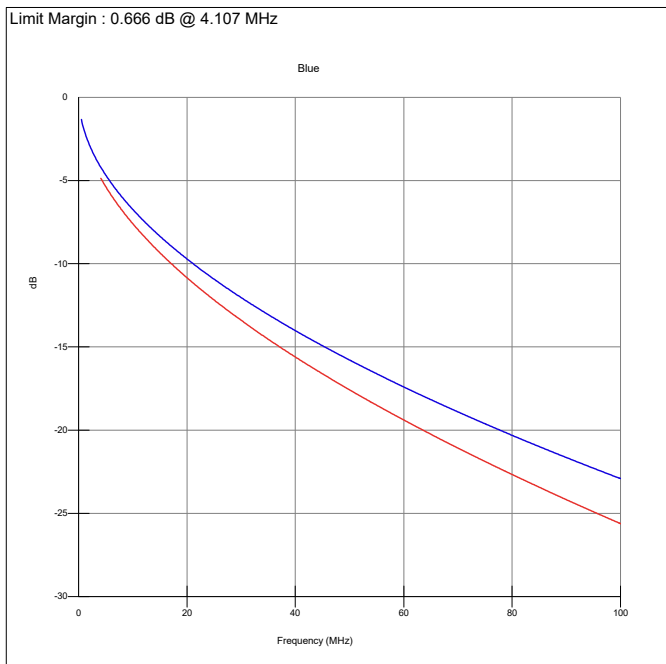
## Insertion Loss

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c@60C
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/20/2018 1:50:45 PM	<b>Temperature</b>	60 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	Craig Williams	<b>Test Status</b>	Complies

Insertion Loss (dB)					
Freq (MHz)	Limit	Blue	Orange	Green	Brown
1.		-1.96	-1.99	-2.01	-1.91
4.		-4.15	-4.17	-4.23	-4.10
8.	-6.78	-5.99	-6.01	-6.09	-5.94
10.	-7.59	-6.74	-6.76	-6.85	-6.69
16.	-9.66	-8.63	-8.66	-8.77	-8.59
20.	-10.84	-9.71	-9.74	-9.87	-9.67
25.	-12.18	-10.93	-10.96	-11.10	-10.89
31.25	-13.69	-12.30	-12.33	-12.49	-12.26
62.5	-19.82	-17.79	-17.84	-18.06	-17.77
100.	-25.62	-22.92	-23.00	-23.27	-22.91

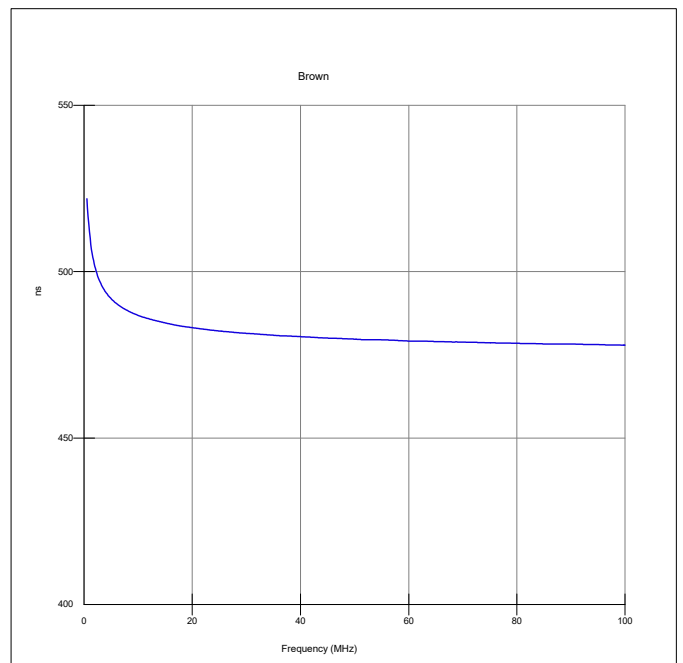
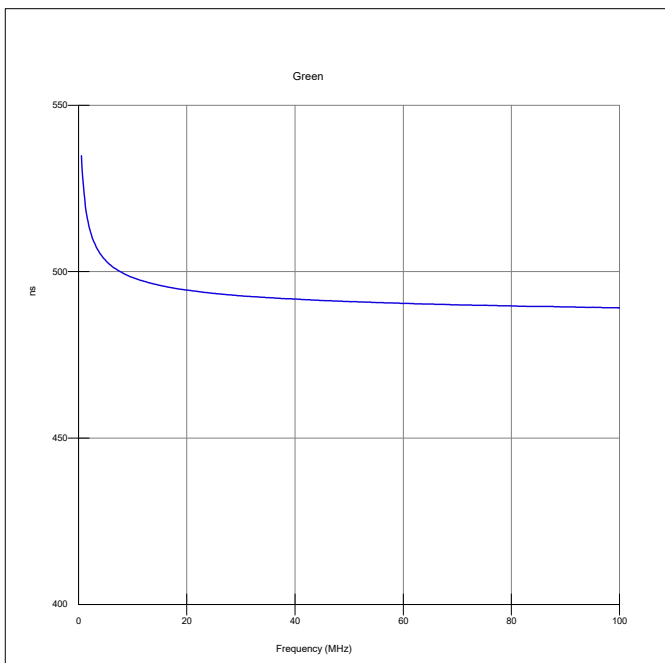
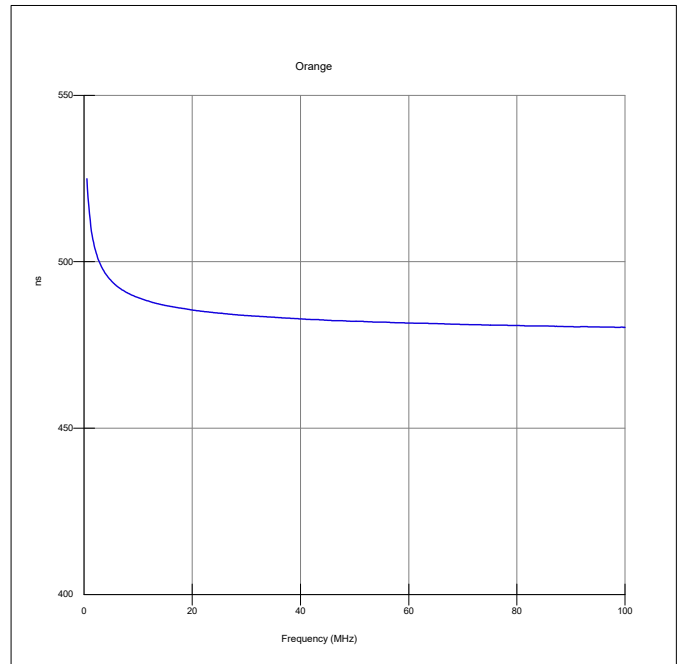
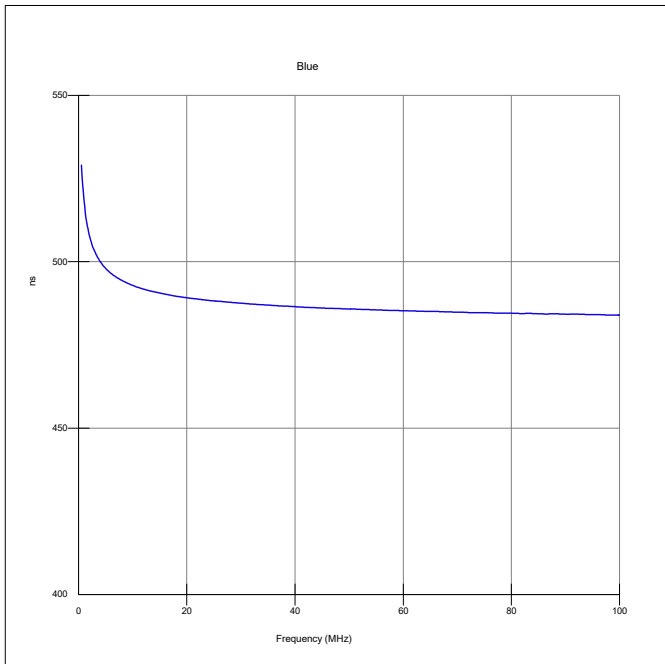
## Insertion Loss

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c@60C
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)	<b>Length (m)</b>	100.
<b>Part No</b>	FA0424AUC5EV	<b>Temperature</b>	60 °C
<b>Test Started</b>	12/20/2018 1:50:45 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	Craig Williams		



## Propagation Delay - Near End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c@60C
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)	<b>Length (m)</b>	100.
<b>Part No</b>	FA0424AUC5EV	<b>Temperature</b>	60 °C
<b>Test Started</b>	12/20/2018 1:50:45 PM	<b>Test Status</b>	Complies
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	Craig Williams		



## Propagation Delay Skew - Near End

<b>Client</b>	Ningbo Feynman	<b>Report No</b>	103777015CRT-002c@60C
<b>Specification</b>	EN 50288-3-1 (Unscreened Cat 5e Solid)		
<b>Part No</b>	FA0424AUC5EV	<b>Length (m)</b>	100.
<b>Test Started</b>	12/20/2018 1:50:45 PM	<b>Temperature</b>	60 °C
<b>Description</b>	4 pair 24 AWG UTP Solid		
<b>Operator Name</b>	Craig Williams	<b>Test Status</b>	Complies

