

November 9, 2016

Test report number 102750607CRT-004a
Project number 102750607-311

Schneider Electric India Pvt. Ltd.,
L3, Verna Industrial Estate
Verna, Goa - 403722

TEST:

Initial qualification testing of a cabling configuration to the requirements of ANSI/TIA-568-C.2 for Category 6A channel.

STANDARD USED:

ANSI/TIA-568-C.2-2009: Balanced Twisted-Pair Telecommunications Cabling and Components Standards, dated August 2009

SECTION:

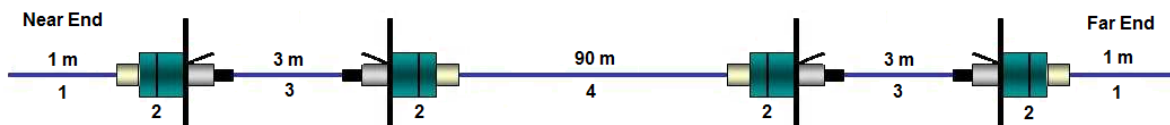
6.2: Channel transmission performance (6.2.1 to 6.2.26)

AUTHORIZATION:

The project was authorized by Mr. Ajit Gaonkar, representing the client, Schneider Electric India Pvt. Ltd., with Intertek India quote number CE-QUO-BAN-16-000966.

SAMPLE DESCRIPTION:

The client supplied a 4-connector channel as illustrated below. The samples were received on September 29, 2016 and were production samples in undamaged condition.



Component Id	Manufacturer	Description	Part number
1	Schneider Electric	Patch Cord, 1 m	ACTPTG6ASBLS10BU
2	Schneider Electric	Patch Panel ¹ Keystone Jack	ACTPP6ATGU24NSS_E VDIB1775XUWE_E
3	Schneider Electric	Patch Cord, 3 m	ACTPTG6ASBLS30BU
4	Schneider Electric	U/UTP, LSZH, Horizontal Cable	ACTTG4P6AULS3RBU

Note 1: The patch panel was populated with jacks in every other port for testing this channel configuration.

**EQUIPMENT LIST:**

The following equipment was employed in conducting the tests.

<u>Equipment used</u>	<u>Model number</u>	<u>Control number</u>	<u>Calibration date</u>	<u>Calibration due date</u>
Keysight Network Analyzer	8753E	E307	3/9/2016	3/9/2017
Keysight LCR Meter	4263B	E355	6/7/2016	6/7/2017
Temperature humidity meter	OM-EL-USB-2-LCD	H243	2/9/2016	2/9/2017

DATE OF TEST:

November 1, 2016 through November 9, 2016

TEST REPORT REVISION HISTORY:

First Issue: November 9, 2016 Original Document

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

CONCLUSION:

The channel cabling configuration, as previously described and supplied by the client, was tested in accordance with the standard referred to on page 1, and did comply with the indicated applicable transmission requirements. The patch panel was populated with jacks in every other port for testing the channel configuration. The testing was performed at Intertek located in Cortland, New York.

The procedures and requirements were taken from the standard referred to on page 1.

Reviewed and Approved By:

Antoine Pelletier
Project Engineer
Global Cabling Products Testing

David Ayers
Technician
Global Cabling Products Testing



Schneider Electric India Pvt. Ltd.,

Test report number 102750607CRT-004a
November 9, 2016

Appendix A
Internal test results

This appendix contains 39 pages.



Low Frequency Report

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

DC Resistance (Ohms)				
45	12	36	78	Limit (Ohms)
7.7170	7.4320	7.8307	7.5153	
7.6715	7.4442	7.7591	7.5198	

Resistance Unbalanced (%)				
45	12	36	78	Limit (%)
0.30	0.08	0.46	0.03	3.00

Resistance Unbalanced Pair-Pair (%)						
45 - 12	45 - 36	45 - 78	12 - 36	12 - 78	36 - 78	Limit (%)
1.69	0.65	1.16	2.34	0.53	1.81	

DC Loop Resistance (Ohms)				
45	12	36	78	Limit (Ohms)
15.3910	14.8720	15.5880	15.0450	25.0000



Insertion Loss

Client	Schneider Electric India	Report No	102750607CRT-004a
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Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

Insertion Loss (dB)					
Freq (MHz)	Limit	45	12	36	78
1.	-2.28	-1.82	-1.81	-1.83	-1.77
4.	-4.16	-3.62	-3.54	-3.61	-3.54
8.	-5.81	-5.10	-4.99	-5.08	-5.01
10.	-6.49	-5.70	-5.58	-5.69	-5.60
16.	-8.20	-7.20	-7.05	-7.19	-7.08
20.	-9.17	-8.06	-7.89	-8.05	-7.93
25.	-10.27	-9.02	-8.85	-9.03	-8.90
31.25	-11.50	-10.11	-9.92	-10.14	-9.98
62.5	-16.40	-14.40	-14.13	-14.46	-14.23
100.	-20.93	-18.39	-18.01	-18.56	-18.14
155.	-26.34	-23.15	-22.68	-23.34	-22.84
200.	-30.14	-26.36	-25.91	-26.80	-26.10
250.	-33.95	-29.77	-29.23	-30.05	-29.46
300.	-37.44	-32.68	-32.06	-33.64	-32.35
350.	-40.68	-35.62	-34.83	-36.40	-35.08
400.	-43.74	-38.21	-37.57	-39.93	-37.80
450.	-46.63	-40.85	-39.97	-43.12	-40.29
500.	-49.40	-43.13	-42.62	-44.99	-42.97



NEXT - Near End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

NEXT - Near End (dB)							
Freq (MHz)	Limit	45 - 12	45 - 36	45 - 78	12 - 36	12 - 78	36 - 78
1.	-65.00	-88.83	-81.56	-89.83	-85.15	-97.96	-89.62
4.	-63.06	-82.29	-71.94	-87.04	-75.18	-90.12	-82.80
8.	-58.16	-75.05	-64.30	-74.47	-70.29	-82.31	-73.71
10.	-56.58	-71.19	-67.00	-75.63	-70.03	-78.19	-79.14
16.	-53.23	-72.29	-72.37	-72.82	-67.45	-78.30	-81.13
20.	-51.63	-70.91	-69.90	-69.35	-65.43	-73.85	-70.27
25.	-50.03	-65.68	-59.41	-65.39	-60.37	-79.09	-64.45
31.25	-48.42	-64.75	-53.30	-64.46	-57.65	-72.97	-60.93
62.5	-43.38	-58.42	-49.49	-61.13	-51.69	-67.09	-54.92
100.	-39.93	-54.30	-45.41	-56.10	-49.99	-59.56	-50.14
155.	-36.68	-50.62	-54.49	-49.83	-48.73	-59.01	-54.64
200.	-34.78	-50.29	-41.70	-51.28	-45.32	-53.13	-44.83
250.	-33.11	-46.68	-45.69	-47.67	-51.71	-50.18	-52.48
300.	-31.75	-50.07	-40.06	-52.49	-44.15	-60.01	-39.56
350.	-30.31	-54.19	-40.95	-46.56	-73.25	-44.99	-48.45
400.	-28.73	-44.36	-44.26	-46.87	-42.46	-46.27	-37.02
450.	-27.34	-50.96	-39.06	-51.29	-41.79	-44.48	-53.77
500.	-26.10	-42.23	-40.45	-46.18	-40.33	-43.64	-34.45



NEXT - Far End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

NEXT - Far End (dB)							
Freq (MHz)	Limit	45 - 12	45 - 36	45 - 78	12 - 36	12 - 78	36 - 78
1.	-65.00	-88.44	-79.46	-90.45	-87.47	-104.48	-91.03
4.	-63.06	-81.22	-71.06	-89.25	-83.27	-91.41	-81.84
8.	-58.16	-74.10	-63.73	-72.94	-73.83	-88.25	-72.81
10.	-56.58	-70.75	-65.44	-76.19	-80.85	-98.91	-78.72
16.	-53.23	-70.07	-74.44	-78.80	-77.62	-104.00	-76.37
20.	-51.63	-69.03	-67.14	-84.80	-76.53	-86.90	-72.30
25.	-50.03	-65.23	-57.07	-68.75	-67.13	-81.44	-66.88
31.25	-48.42	-64.44	-51.94	-77.12	-62.86	-82.36	-62.41
62.5	-43.38	-59.61	-47.64	-66.04	-55.90	-70.95	-57.56
100.	-39.93	-55.18	-43.79	-56.72	-55.27	-67.63	-52.65
155.	-36.68	-49.85	-47.17	-49.46	-52.05	-64.15	-56.17
200.	-34.78	-48.67	-40.52	-56.87	-49.29	-60.15	-46.75
250.	-33.11	-47.42	-41.72	-46.81	-52.25	-60.88	-58.40
300.	-31.75	-49.12	-35.16	-46.68	-47.22	-64.83	-40.67
350.	-30.31	-43.03	-36.08	-48.10	-43.25	-53.81	-44.03
400.	-28.73	-47.05	-35.32	-40.06	-41.87	-45.05	-38.05
450.	-27.34	-42.99	-33.64	-50.41	-38.56	-47.13	-47.55
500.	-26.10	-48.29	-40.88	-38.49	-40.84	-43.85	-38.18



PSNEXT - Near End

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Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

PSNEXT - Near End (dB)					
Freq (MHz)	Limit	45	12	36	78
1.	-62.00	-80.05	-83.41	-79.16	-86.23
4.	-60.56	-71.23	-74.01	-70.01	-80.72
8.	-55.60	-63.57	-68.83	-62.94	-70.73
10.	-53.99	-65.12	-67.00	-64.55	-72.41
16.	-50.60	-67.65	-65.92	-65.98	-71.26
20.	-48.97	-65.17	-63.88	-63.11	-65.93
25.	-47.34	-57.67	-59.17	-56.14	-61.74
31.25	-45.71	-52.69	-56.77	-51.38	-59.14
62.5	-40.59	-48.70	-50.75	-46.73	-53.75
100.	-37.08	-44.57	-48.29	-43.15	-48.78
155.	-33.78	-46.45	-46.32	-46.90	-48.21
200.	-31.85	-40.73	-43.60	-38.86	-43.45
250.	-30.15	-41.83	-44.22	-44.04	-44.90
300.	-28.76	-39.43	-43.07	-36.06	-39.31
350.	-27.32	-39.74	-44.48	-40.23	-41.67
400.	-25.79	-40.22	-39.32	-35.33	-36.15
450.	-24.44	-38.55	-39.59	-37.10	-43.23
500.	-23.23	-37.59	-37.09	-32.66	-33.70



PSNEXT - Far End

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Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

PSNEXT - Far End (dB)					
Freq (MHz)	Limit	45	12	36	78
1.	-62.00	-78.56	-84.81	-78.45	-86.65
4.	-60.56	-70.45	-77.75	-70.37	-80.26
8.	-55.60	-62.89	-70.81	-62.86	-69.79
10.	-53.99	-64.01	-69.88	-64.91	-74.13
16.	-50.60	-68.23	-69.36	-71.12	-74.39
20.	-48.97	-64.73	-68.23	-65.62	-71.20
25.	-47.34	-56.18	-62.80	-56.19	-64.20
31.25	-45.71	-51.68	-60.51	-51.20	-62.16
62.5	-40.59	-47.31	-54.24	-46.66	-56.81
100.	-37.08	-43.28	-52.09	-42.99	-51.10
155.	-33.78	-43.88	-47.69	-45.53	-48.50
200.	-31.85	-39.81	-45.79	-39.14	-46.16
250.	-30.15	-39.73	-46.04	-41.26	-46.35
300.	-28.76	-34.71	-45.01	-33.88	-39.68
350.	-27.32	-35.06	-39.94	-34.77	-42.26
400.	-25.79	-33.85	-39.35	-32.88	-35.43
450.	-24.44	-33.08	-36.80	-32.29	-43.36
500.	-23.23	-36.23	-38.59	-35.00	-34.75



ACR - Near End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
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Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

ACR - Near End (dB)							
Freq (MHz)	Limit	45 - 12	45 - 36	45 - 78	12 - 36	12 - 78	36 - 78
1.	62.72	87.02	79.74	88.06	83.33	96.19	87.85
4.	58.90	78.75	68.33	83.51	71.57	86.58	79.26
8.	52.35	70.06	59.22	69.46	65.20	77.30	68.71
10.	50.09	65.61	61.32	70.03	64.34	72.59	73.54
16.	45.03	65.24	65.18	65.73	60.26	71.21	74.04
20.	42.46	63.02	61.85	61.42	57.37	65.92	62.33
25.	39.76	56.83	50.38	56.49	51.34	70.19	55.55
31.25	36.92	54.83	43.16	54.48	47.51	62.99	50.96
62.5	26.98	44.28	35.04	46.90	37.23	52.86	40.69
100.	18.99	36.28	26.85	37.97	31.43	41.42	32.01
155.	10.34	27.94	31.15	26.99	25.39	36.17	31.80
200.	4.64	24.38	14.90	25.18	18.52	27.03	18.74
250.	-0.84	17.45	15.64	18.22	21.66	20.72	23.03
300.	-5.69	18.01	6.42	20.14	10.51	27.66	7.21
350.	-10.38	19.36	4.55	11.48	36.85	9.90	13.37
400.	-15.00	6.79	4.33	9.06	2.54	8.47	-0.78
450.	-19.29	10.99	-4.06	11.01	-1.33	4.19	13.49
500.	-23.30	-0.39	-4.54	3.20	-4.66	0.67	-8.53



ACR - Far End

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Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

ACR - Far End (dB)							
Freq (MHz)	Limit	45 - 12	45 - 36	45 - 78	12 - 36	12 - 78	36 - 78
1.	62.72	86.63	77.57	88.67	85.58	102.70	89.26
4.	58.90	77.69	67.41	85.71	79.62	87.88	78.31
8.	52.35	69.11	58.60	67.93	68.70	83.24	67.81
10.	50.09	65.17	59.72	70.59	75.13	93.31	73.12
16.	45.03	63.02	67.23	71.72	70.41	96.91	69.29
20.	42.46	61.13	59.07	76.87	68.46	78.97	64.37
25.	39.76	56.37	48.03	59.85	58.09	72.53	57.97
31.25	36.92	54.52	41.81	67.14	52.72	72.38	52.43
62.5	26.98	45.44	33.20	51.78	41.46	56.69	43.30
100.	18.99	37.13	25.25	38.56	36.73	49.47	34.49
155.	10.34	27.15	23.87	26.60	28.75	41.29	33.32
200.	4.64	22.70	13.54	30.79	22.31	34.07	20.67
250.	-0.84	18.18	11.67	17.40	22.20	31.47	28.99
300.	-5.69	17.08	1.46	14.31	13.52	32.45	8.29
350.	-10.38	8.19	-0.29	12.97	6.88	18.68	8.90
400.	-15.00	9.40	-4.56	2.24	1.99	7.23	0.23
450.	-19.29	2.88	-9.49	10.13	-4.58	6.84	7.26
500.	-23.30	5.49	-4.32	-4.63	-4.36	0.74	-4.93



PSACR - Near End

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Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

PSACR - Near End (dB)					
Freq (MHz)	Limit	45	12	36	78
1.	59.72	78.23	81.60	77.34	84.46
4.	56.41	67.61	70.47	66.40	77.19
8.	49.78	58.47	63.85	57.86	65.72
10.	47.51	59.42	61.42	58.86	66.81
16.	42.40	60.45	58.87	58.79	64.18
20.	39.80	57.12	55.99	55.05	57.99
25.	37.08	48.65	50.32	47.11	52.84
31.25	34.21	42.58	46.85	41.24	49.17
62.5	24.18	34.30	36.61	32.27	39.52
100.	16.15	26.18	30.27	24.58	30.65
155.	7.44	23.29	23.64	23.56	25.37
200.	1.71	14.38	17.70	12.06	17.35
250.	-3.80	12.07	14.98	13.99	15.45
300.	-8.67	6.75	11.01	2.42	6.95
350.	-13.36	4.11	9.65	3.83	6.58
400.	-17.94	2.02	1.75	-4.60	-1.65
450.	-22.19	-2.31	-0.38	-6.01	2.95
500.	-26.17	-5.54	-5.53	-12.33	-9.27



PSACR - Far End

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Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

PSACR - Far End (dB)					
Freq (MHz)	Limit	45	12	36	78
1.	59.72	76.75	83.00	76.56	84.88
4.	56.41	66.83	74.21	66.73	76.72
8.	49.78	57.79	65.82	57.73	64.79
10.	47.51	58.31	64.31	59.18	68.53
16.	42.40	61.03	62.31	63.91	67.30
20.	39.80	56.67	60.34	57.55	63.27
25.	37.08	47.15	53.94	47.15	55.29
31.25	34.21	41.56	50.58	41.07	52.17
62.5	24.18	32.89	40.08	32.21	42.55
100.	16.15	24.88	34.04	24.45	32.94
155.	7.44	20.70	24.99	22.23	25.64
200.	1.71	13.45	19.82	12.17	20.08
250.	-3.80	9.98	16.80	11.22	16.94
300.	-8.67	2.06	12.97	0.18	7.31
350.	-13.36	-0.59	5.10	-1.60	7.13
400.	-17.94	-4.43	1.70	-7.00	-2.39
450.	-22.19	-7.55	-3.32	-10.84	3.08
500.	-26.17	-6.86	-4.21	-10.20	-8.36



FEXT - Near End

Client	Schneider Electric India	Report No	102750607CRT-004a
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Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	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.	-87.44	-76.16	-88.15	-84.22	-89.94	-99.83	-76.28	-90.29	-84.03	-86.77	-114.79	-85.06
4.	-76.11	-64.78	-75.36	-75.78	-82.50	-98.02	-64.84	-89.15	-75.59	-75.37	-110.48	-75.61
8.	-71.84	-59.89	-72.08	-72.12	-77.92	-101.58	-59.79	-83.85	-72.13	-71.86	-100.58	-72.49
10.	-70.73	-58.48	-70.48	-70.43	-77.12	-95.86	-58.46	-81.46	-71.16	-70.56	-93.18	-71.60
16.	-70.50	-55.81	-71.68	-70.01	-73.42	-104.50	-55.98	-74.57	-73.47	-70.82	-93.12	-73.34
20.	-70.55	-55.10	-73.69	-69.18	-71.60	-88.51	-55.16	-71.99	-76.65	-73.73	-88.71	-76.35
25.	-70.09	-54.24	-83.10	-70.23	-72.51	-87.35	-54.21	-70.84	-81.78	-81.02	-86.18	-83.93
31.25	-69.15	-53.20	-72.78	-70.20	-74.38	-91.95	-53.21	-71.04	-74.93	-73.29	-86.16	-73.33
62.5	-73.09	-53.35	-57.45	-72.19	-68.97	-87.58	-53.39	-68.99	-67.98	-57.31	-82.02	-67.57
100.	-68.03	-58.07	-74.11	-67.84	-66.92	-76.73	-58.30	-68.08	-65.84	-75.87	-79.29	-66.46
155.	-71.42	-62.53	-70.72	-71.10	-70.58	-71.84	-67.02	-88.64	-78.84	-69.27	-72.40	-73.63
200.	-77.18	-58.72	-64.82	-75.51	-68.23	-69.65	-60.58	-74.25	-65.09	-64.80	-69.95	-64.79
250.	-70.80	-56.99	-79.10	-69.48	-70.61	-67.30	-58.06	-74.70	-72.27	-77.33	-68.62	-69.82
300.	-77.37	-62.48	-69.78	-77.36	-75.19	-67.34	-67.01	-91.68	-74.95	-68.83	-67.82	-71.32
350.	-74.57	-68.13	-68.23	-76.66	-73.60	-69.71	-71.02	-74.98	-74.79	-67.94	-69.59	-71.56
400.	-83.03	-71.63	-79.27	-91.78	-73.03	-71.57	-70.54	-79.49	-81.95	-77.38	-71.78	-85.08
450.	-77.52	-65.50	-69.06	-77.70	-82.33	-74.16	-66.96	-69.53	-71.12	-70.26	-71.72	-74.29
500.	-84.46	-65.86	-81.06	-80.10	-80.66	-82.95	-67.74	-92.08	-73.59	-87.43	-80.98	-74.35



ACRF (ELFEXT) - Near End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	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.	-63.00	-85.63	-74.34	-86.37	-82.40	-88.11	-98.06	-74.46	-88.48	-82.26	-84.95	-112.98	-83.23
4.	-51.24	-72.57	-61.18	-71.83	-72.17	-78.89	-94.49	-61.23	-85.62	-72.06	-71.75	-106.94	-72.00
8.	-45.20	-66.85	-54.81	-67.07	-67.02	-72.83	-96.57	-54.69	-78.87	-67.12	-66.76	-95.59	-67.40
10.	-43.26	-65.15	-52.79	-64.88	-64.73	-71.43	-90.26	-52.76	-75.88	-65.56	-64.86	-87.59	-65.92
16.	-39.18	-63.46	-48.62	-64.59	-62.81	-66.23	-97.42	-48.78	-67.53	-66.39	-63.62	-86.07	-66.15
20.	-37.24	-62.66	-47.05	-65.75	-61.12	-63.54	-80.57	-47.11	-64.10	-68.71	-65.68	-80.82	-68.30
25.	-35.30	-61.24	-45.20	-74.20	-61.21	-63.48	-78.45	-45.19	-61.99	-72.88	-71.99	-77.33	-74.90
31.25	-33.36	-59.23	-43.06	-62.80	-60.09	-64.24	-81.97	-43.09	-61.12	-64.95	-63.18	-76.24	-63.19
62.5	-27.34	-58.96	-38.89	-43.22	-57.80	-54.52	-73.35	-38.99	-54.86	-53.75	-42.91	-67.88	-53.12
100.	-23.26	-50.01	-39.51	-55.98	-49.45	-48.36	-58.59	-39.91	-50.07	-47.71	-57.48	-61.28	-47.90
155.	-19.45	-48.74	-39.20	-47.88	-47.95	-47.24	-49.00	-43.86	-65.96	-56.00	-46.12	-49.72	-50.29
200.	-17.24	-51.27	-31.92	-38.72	-49.15	-41.43	-43.56	-34.22	-48.34	-38.99	-38.45	-44.04	-37.99
250.	-15.30	-41.57	-26.94	-49.64	-39.71	-40.56	-37.84	-28.30	-45.47	-42.81	-47.56	-39.39	-39.77
300.	-13.71	-45.31	-28.85	-37.43	-44.68	-41.56	-34.99	-34.33	-59.62	-42.60	-36.15	-35.76	-37.68
350.	-12.38	-39.74	-31.73	-33.14	-41.04	-37.20	-34.62	-35.39	-40.16	-39.71	-32.32	-34.77	-35.16
400.	-11.22	-45.47	-31.70	-41.47	-53.57	-33.10	-33.77	-32.34	-41.93	-44.15	-39.17	-34.21	-45.16
450.	-10.19	-37.55	-22.39	-28.78	-36.85	-39.22	-33.87	-26.11	-29.56	-30.83	-29.41	-31.74	-31.17
500.	-9.28	-41.84	-20.87	-38.08	-36.96	-35.67	-39.97	-24.61	-49.46	-30.62	-44.29	-38.36	-29.35



PSFEXT - Near End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

PSFEXT - Near End (dB)				
Freq (MHz)	45	12	36	78
1.	-75.58	-83.07	-75.45	-82.44
4.	-64.13	-74.92	-64.47	-72.46
8.	-59.38	-71.10	-59.53	-69.15
10.	-57.98	-69.57	-58.21	-68.02
16.	-55.56	-68.37	-55.84	-68.87
20.	-54.92	-67.17	-55.04	-71.73
25.	-54.12	-68.16	-54.11	-78.43
31.25	-53.05	-68.77	-53.11	-70.17
62.5	-51.89	-67.24	-53.13	-56.90
100.	-57.55	-64.10	-57.22	-65.79
155.	-61.46	-66.37	-66.71	-66.59
200.	-57.72	-65.42	-59.13	-61.17
250.	-56.78	-64.13	-57.81	-65.85
300.	-61.62	-66.32	-66.34	-64.32
350.	-64.70	-67.64	-68.41	-64.68
400.	-70.67	-69.18	-69.74	-70.55
450.	-63.73	-72.08	-64.08	-67.02
500.	-65.67	-76.30	-66.72	-73.32



PSACRF (PSELFEXT) - Near End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

PSACRF (PSELFEXT) - Near End (dB)					
Freq (MHz)	Limit	45	12	36	78
1.	-60.00	-73.76	-81.26	-73.62	-80.67
4.	-48.24	-60.52	-71.38	-60.87	-68.93
8.	-42.20	-54.28	-66.12	-54.44	-64.14
10.	-40.26	-52.28	-63.99	-52.53	-62.42
16.	-36.18	-48.36	-61.32	-48.65	-61.78
20.	-34.24	-46.87	-59.28	-46.99	-63.79
25.	-32.30	-45.10	-59.31	-45.08	-69.53
31.25	-30.36	-42.93	-58.85	-42.97	-60.20
62.5	-24.34	-37.49	-53.10	-38.67	-42.67
100.	-20.26	-39.16	-46.09	-38.66	-47.65
155.	-16.45	-38.30	-43.69	-43.37	-43.75
200.	-14.24	-31.36	-39.52	-32.33	-35.07
250.	-12.30	-27.02	-34.90	-27.76	-36.39
300.	-10.71	-28.94	-34.26	-32.70	-31.97
350.	-9.38	-29.07	-32.81	-32.01	-29.59
400.	-8.22	-32.46	-31.61	-29.81	-32.75
450.	-7.19	-22.88	-32.11	-20.97	-26.73
500.	-6.28	-22.54	-33.68	-21.73	-30.35



Return Loss - Near End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

Return Loss - Near End (dB)					
Freq (MHz)	Limit	45	12	36	78
1.	-19.00	-26.18	-25.97	-26.93	-26.92
4.	-19.00	-34.59	-31.60	-36.63	-33.54
8.	-19.00	-35.59	-35.62	-36.69	-36.56
10.	-18.98	-38.91	-51.63	-39.38	-43.98
16.	-17.98	-53.33	-37.78	-47.93	-36.85
20.	-17.50	-40.21	-44.07	-45.44	-51.86
25.	-17.01	-65.68	-38.53	-30.79	-48.38
31.25	-16.53	-31.85	-43.98	-25.94	-41.31
62.5	-14.04	-48.60	-42.40	-39.26	-36.51
100.	-12.00	-29.73	-43.15	-30.85	-47.53
155.	-10.10	-25.26	-35.34	-19.30	-24.94
200.	-8.99	-25.48	-27.46	-19.56	-30.37
250.	-8.02	-30.67	-24.07	-33.63	-21.01
300.	-7.23	-35.80	-51.82	-17.59	-26.77
350.	-6.56	-25.11	-23.80	-28.03	-25.98
400.	-6.00	-28.96	-31.66	-24.94	-20.21
450.	-6.00	-16.83	-27.43	-21.30	-48.05
500.	-6.00	-29.28	-35.93	-23.98	-17.84



Return Loss - Far End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

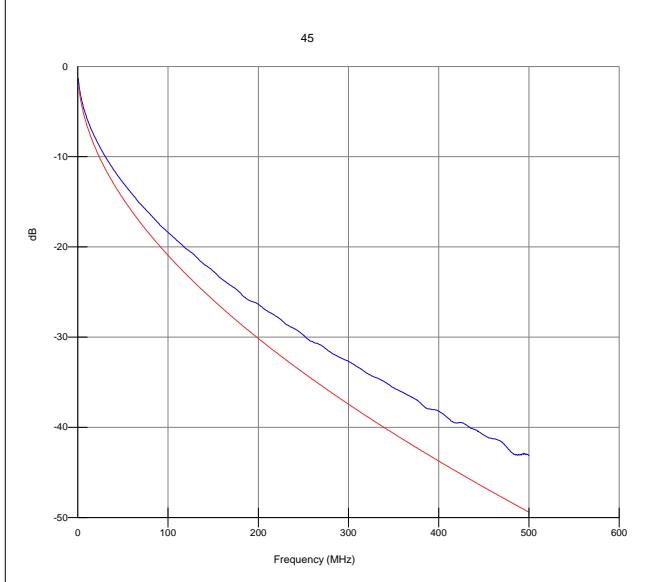
Return Loss - Far End (dB)					
Freq (MHz)	Limit	45	12	36	78
1.	-19.00	-25.73	-25.80	-25.45	-25.85
4.	-19.00	-33.77	-33.31	-34.78	-32.84
8.	-19.00	-34.39	-41.28	-34.65	-35.29
10.	-18.98	-36.87	-49.30	-39.71	-42.21
16.	-17.98	-44.56	-59.01	-53.79	-39.60
20.	-17.50	-40.99	-55.77	-52.35	-46.13
25.	-17.01	-37.10	-48.66	-34.90	-33.22
31.25	-16.53	-28.30	-42.63	-24.98	-32.51
62.5	-14.04	-30.46	-38.08	-30.53	-41.89
100.	-12.00	-36.91	-30.39	-32.29	-29.28
155.	-10.10	-19.68	-28.39	-18.15	-27.06
200.	-8.99	-30.15	-46.78	-19.54	-32.84
250.	-8.02	-26.88	-24.28	-25.47	-21.75
300.	-7.23	-30.67	-34.14	-16.12	-27.56
350.	-6.56	-34.09	-21.16	-56.52	-22.28
400.	-6.00	-42.24	-32.27	-20.42	-38.11
450.	-6.00	-24.75	-42.80	-19.40	-56.95
500.	-6.00	-22.79	-32.73	-28.47	-30.22



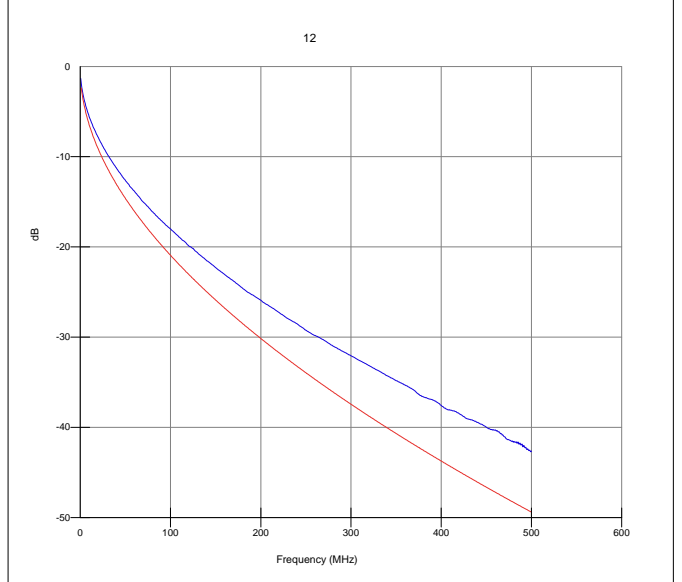
Insertion Loss

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

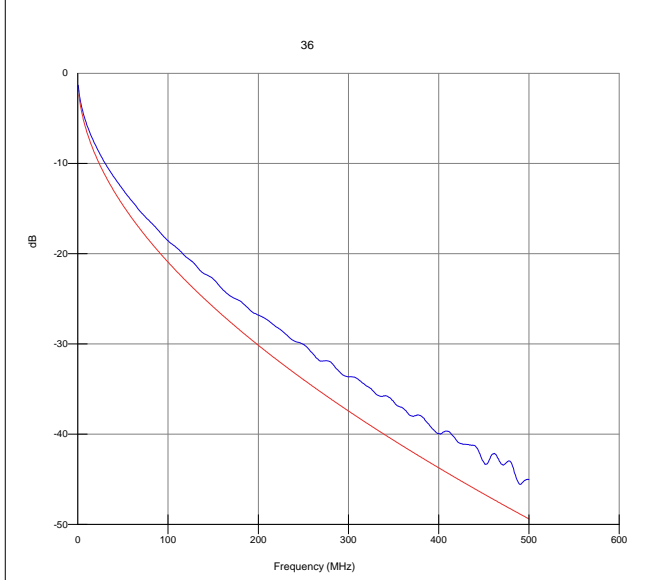
Limit Margin : 0.430 dB @ 1.124 MHz



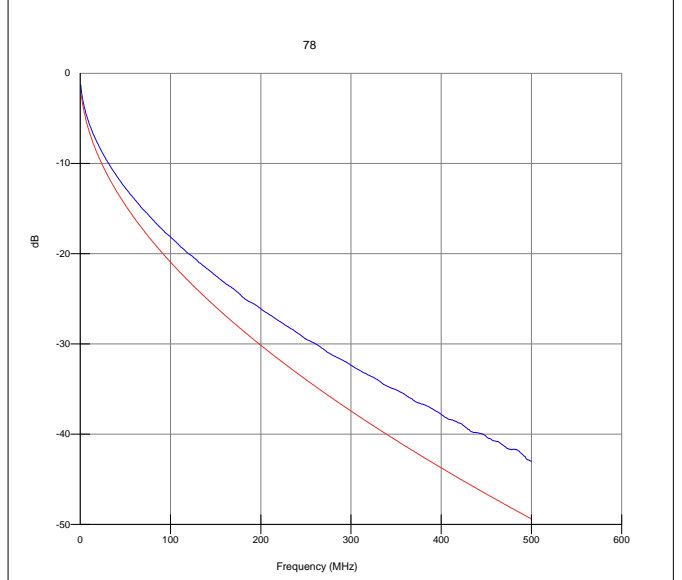
Limit Margin : 0.446 dB @ 1.124 MHz



Limit Margin : 0.422 dB @ 1.124 MHz



Limit Margin : 0.476 dB @ 1.124 MHz

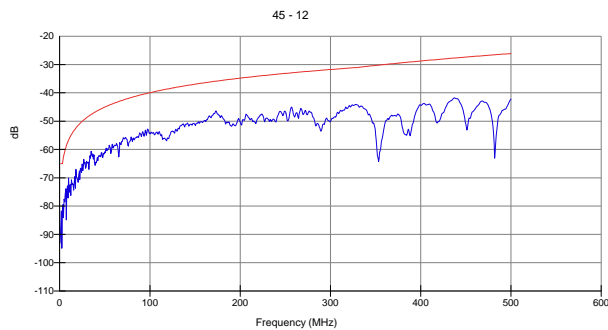




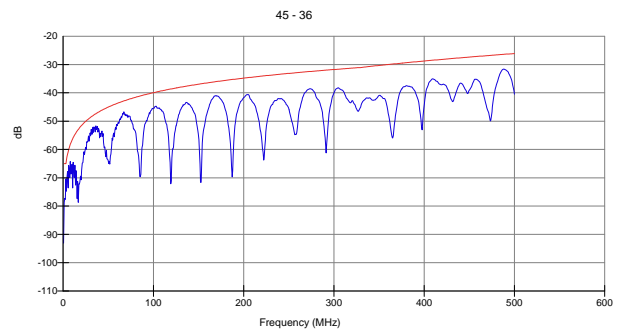
NEXT - Near End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

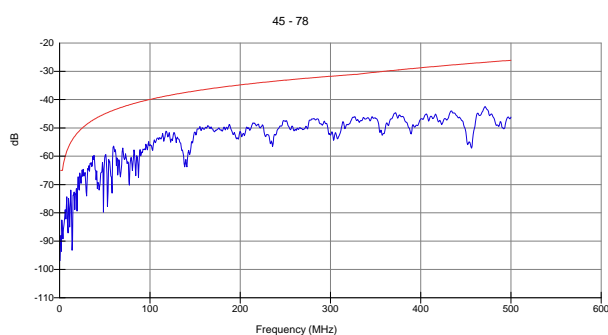
Limit Margin : 10.542 dB @ 172.828 MHz



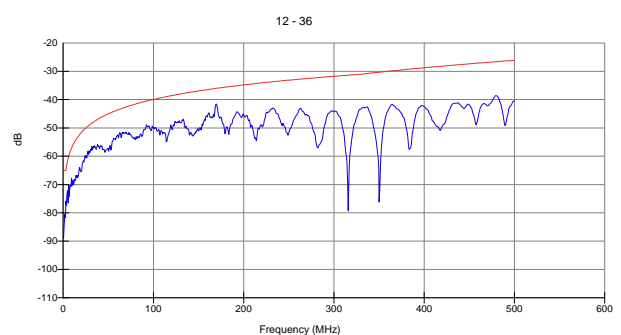
Limit Margin : 3.828 dB @ 67.308 MHz



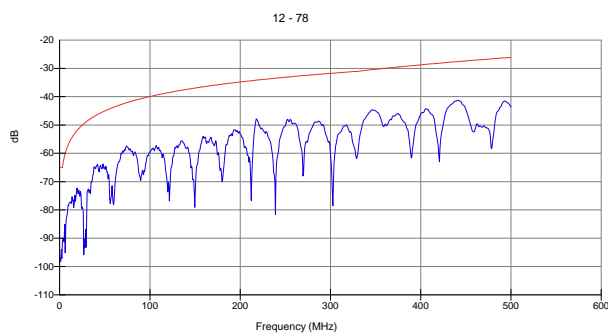
Limit Margin : 12.432 dB @ 117.883 MHz



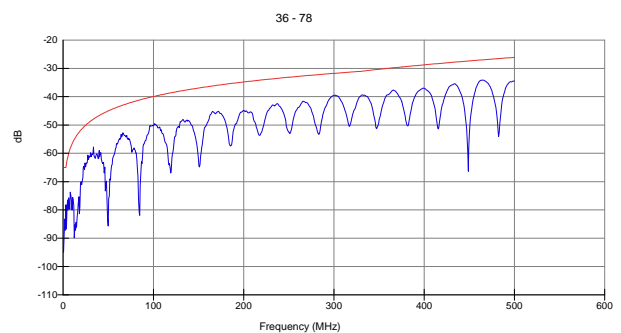
Limit Margin : 5.532 dB @ 169.706 MHz



Limit Margin : 13.645 dB @ 441.309 MHz



Limit Margin : 7.157 dB @ 463.162 MHz

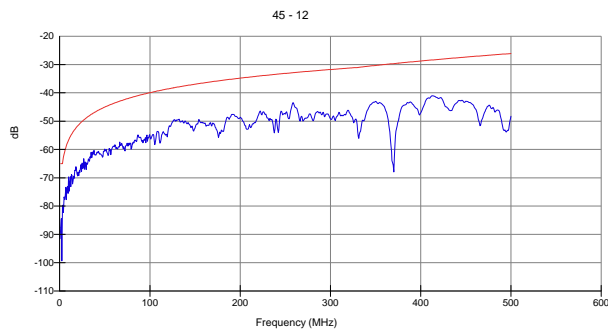




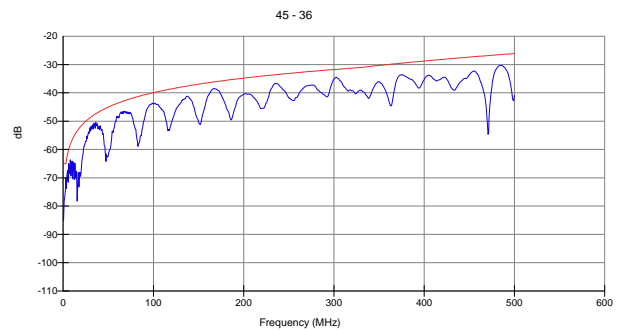
NEXT - Far End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

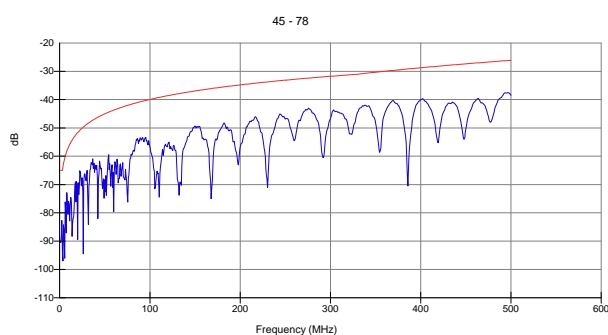
Limit Margin : 10.608 dB @ 258.367 MHz



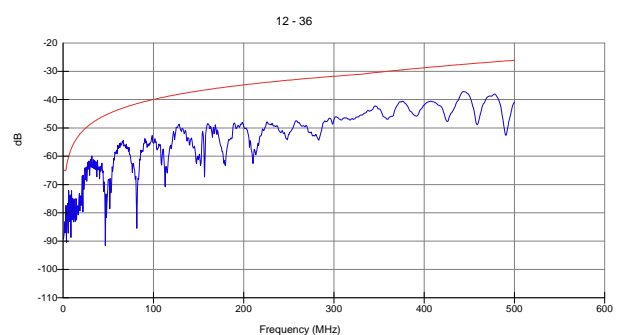
Limit Margin : 2.310 dB @ 167.208 MHz



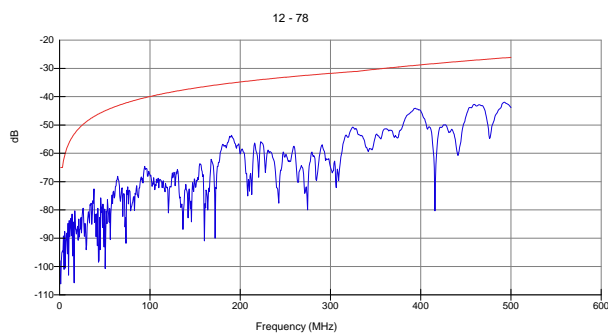
Limit Margin : 10.638 dB @ 369.506 MHz



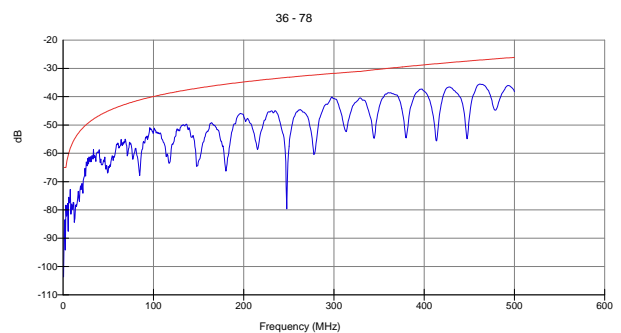
Limit Margin : 9.648 dB @ 443.182 MHz



Limit Margin : 15.200 dB @ 393.232 MHz



Limit Margin : 8.275 dB @ 297.703 MHz

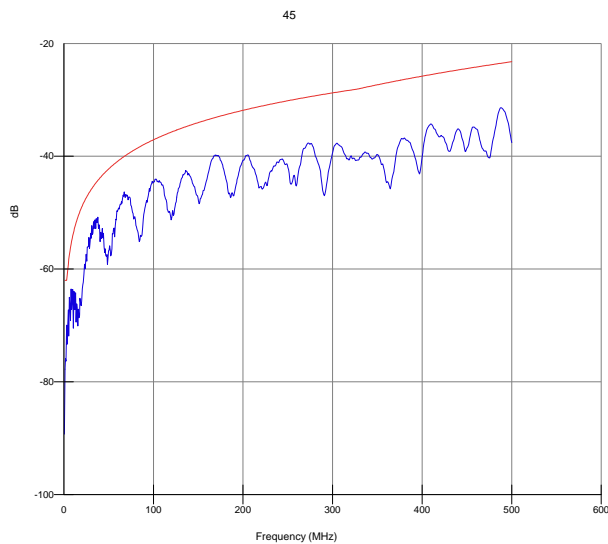




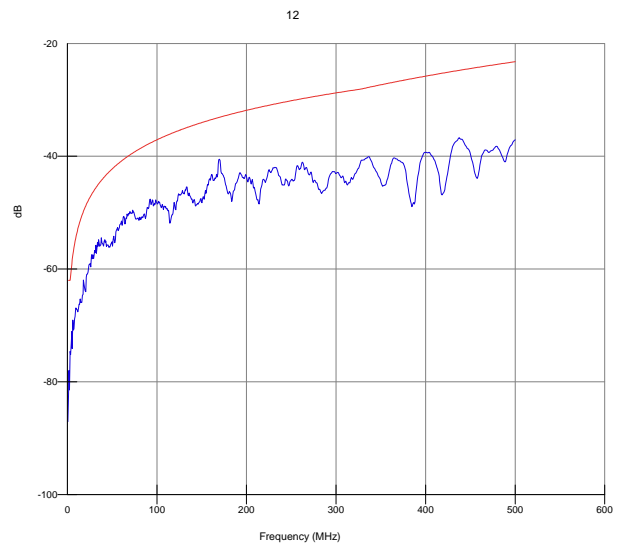
PSNEXT - Near End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

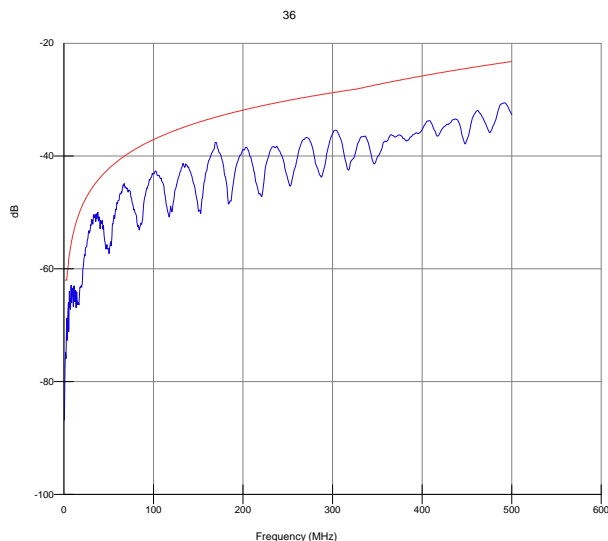
Limit Margin : 6.287 dB @ 67.308 MHz



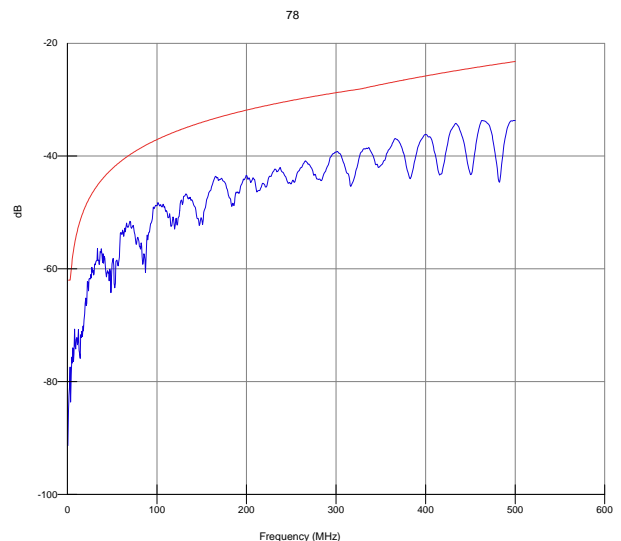
Limit Margin : 7.432 dB @ 169.706 MHz



Limit Margin : 4.466 dB @ 169.081 MHz



Limit Margin : 9.345 dB @ 433.816 MHz

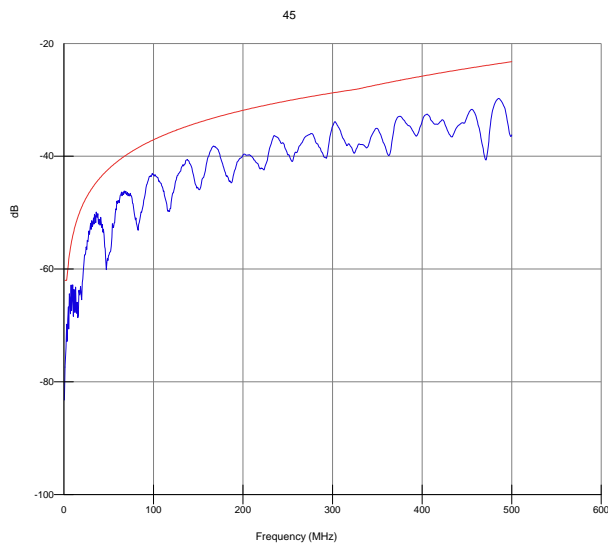




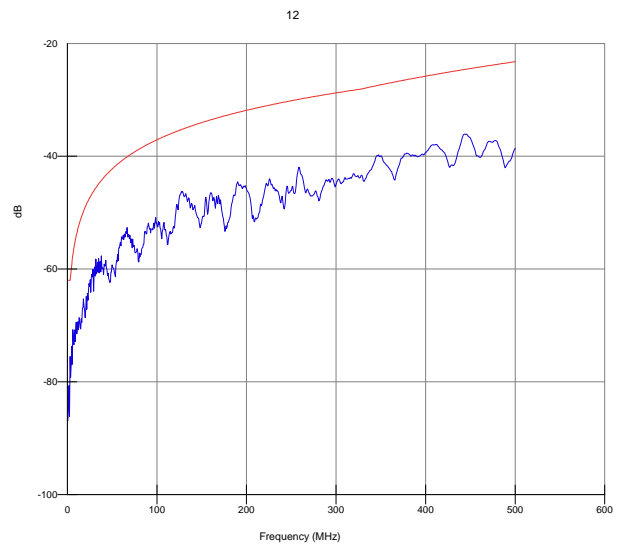
PSNEXT - Far End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

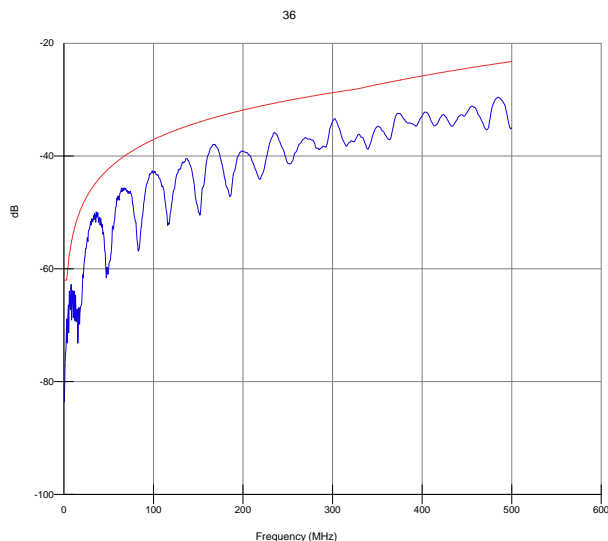
Limit Margin : 4.956 dB @ 167.208 MHz



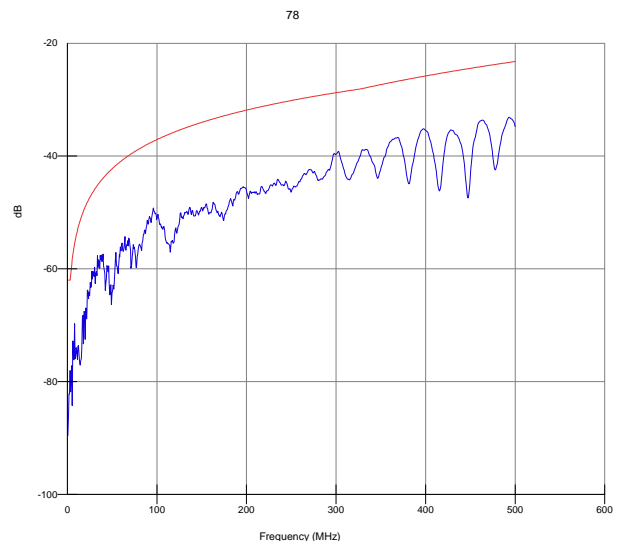
Limit Margin : 11.004 dB @ 127.248 MHz



Limit Margin : 4.652 dB @ 302.073 MHz



Limit Margin : 9.292 dB @ 397.603 MHz

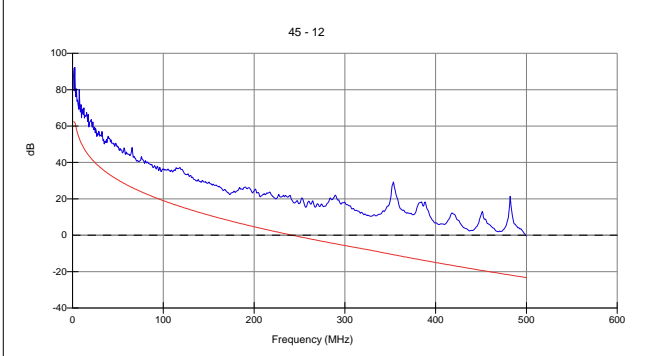




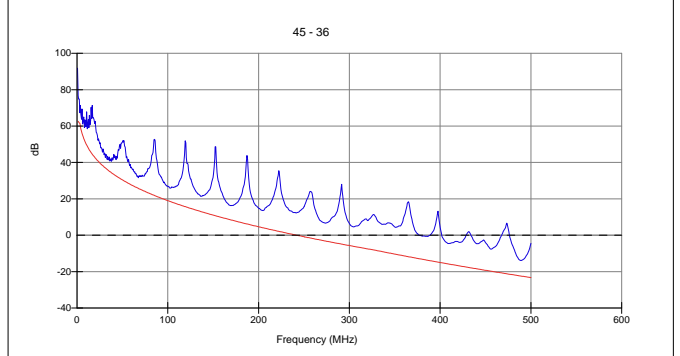
ACR - Near End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

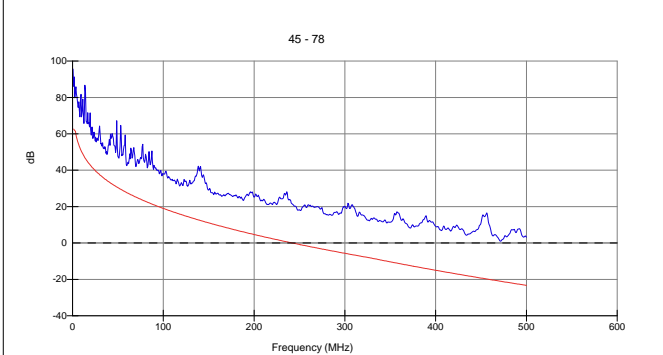
Limit Margin : 14.335 dB @ 9.866 MHz



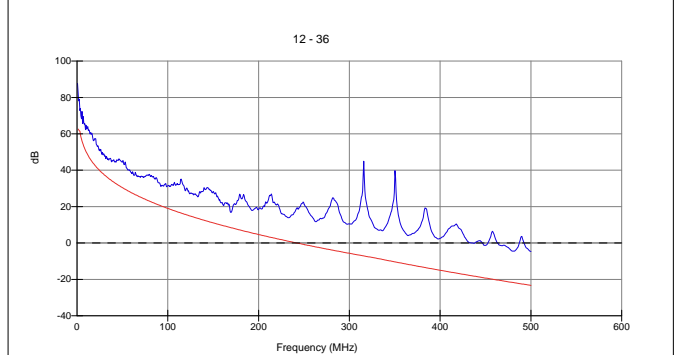
Limit Margin : 5.484 dB @ 32.968 MHz



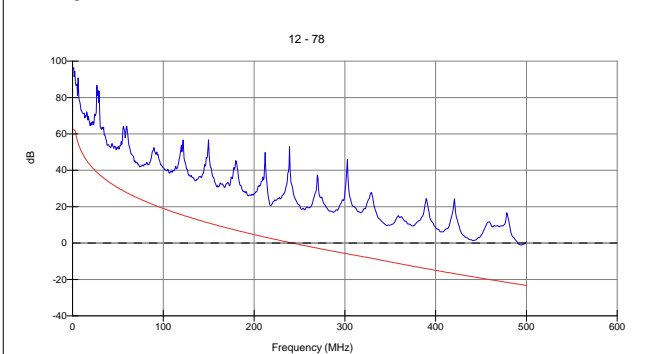
Limit Margin : 14.336 dB @ 37.963 MHz



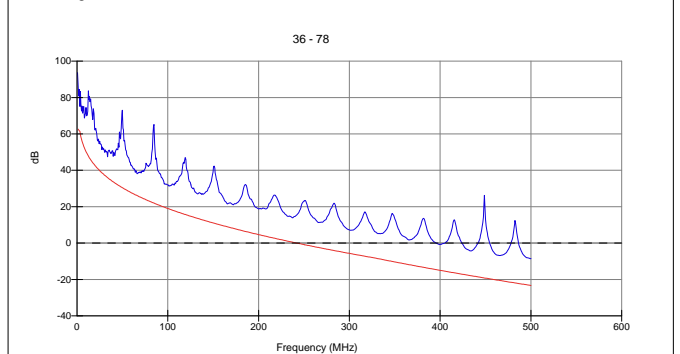
Limit Margin : 8.435 dB @ 169.706 MHz



Limit Margin : 17.648 dB @ 74.176 MHz



Limit Margin : 11.434 dB @ 33.592 MHz

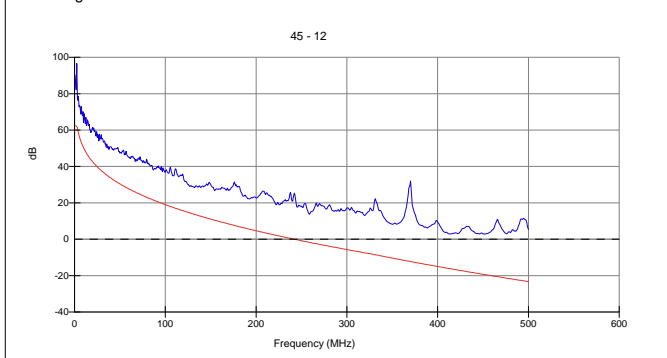




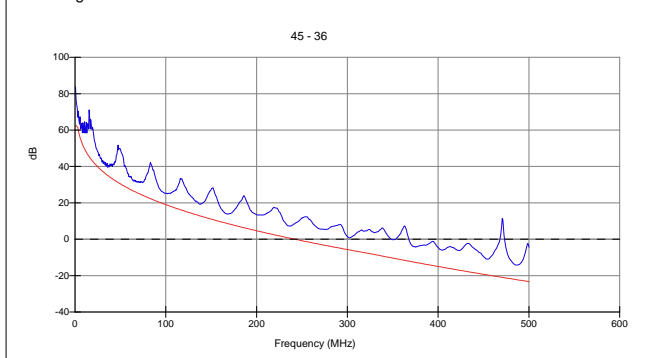
ACR - Far End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

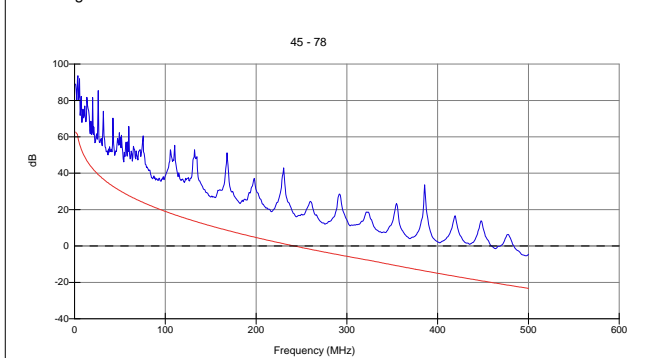
Limit Margin : 13.902 dB @ 9.866 MHz



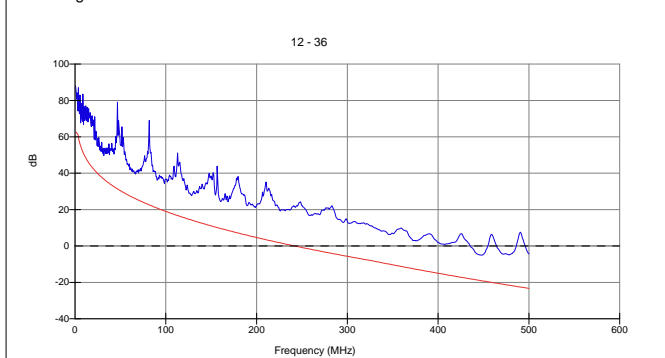
Limit Margin : 4.372 dB @ 34.216 MHz



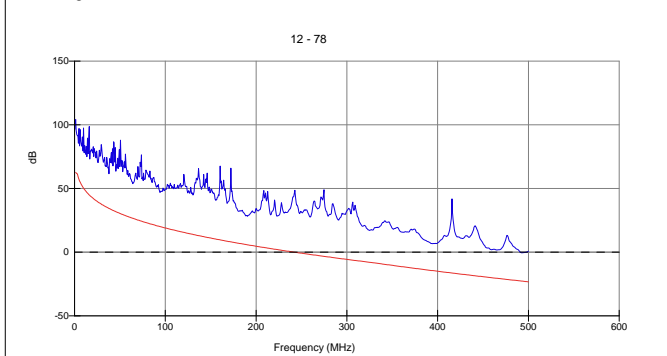
Limit Margin : 15.208 dB @ 86.039 MHz



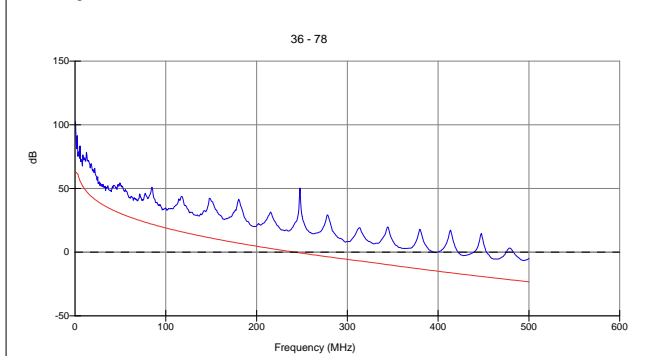
Limit Margin : 12.640 dB @ 6.119 MHz



Limit Margin : 21.075 dB @ 393.232 MHz



Limit Margin : 12.339 dB @ 33.592 MHz

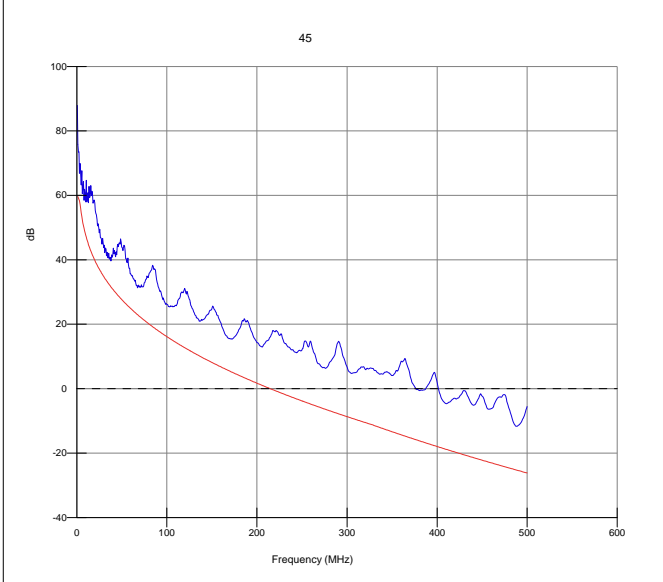




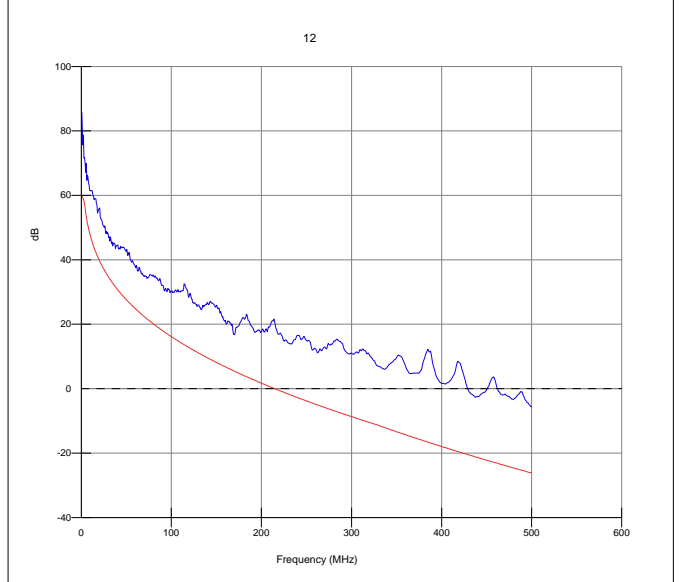
PSACR - Near End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

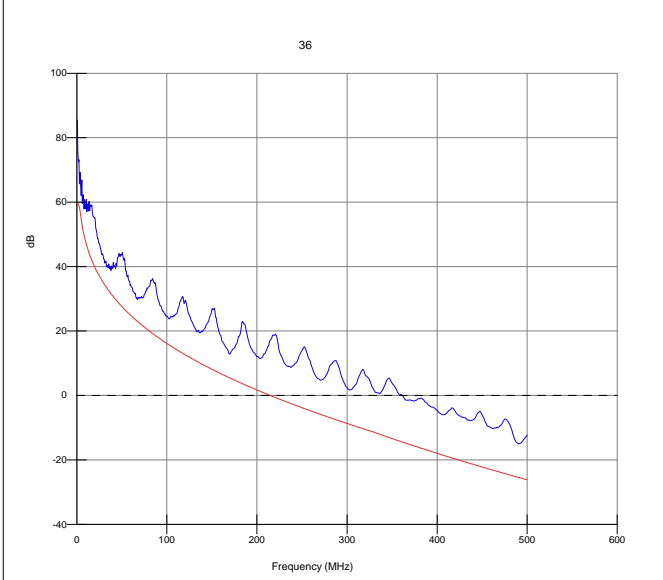
Limit Margin : 7.757 dB @ 32.968 MHz



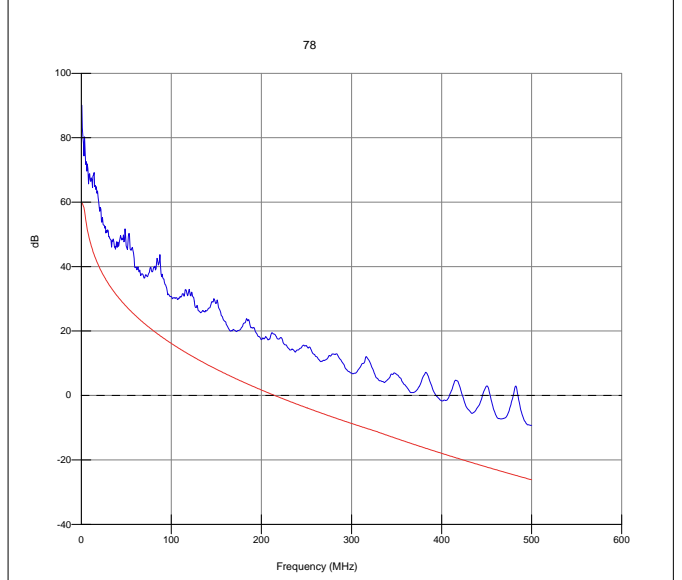
Limit Margin : 11.286 dB @ 169.706 MHz



Limit Margin : 6.483 dB @ 32.968 MHz



Limit Margin : 12.815 dB @ 33.592 MHz

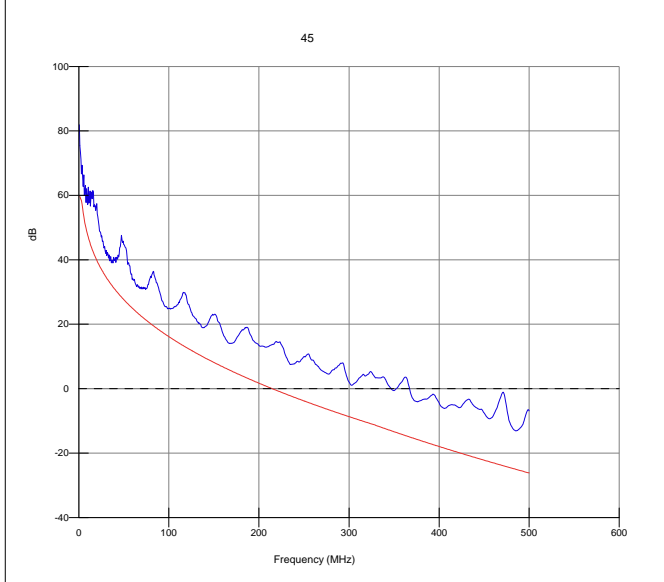




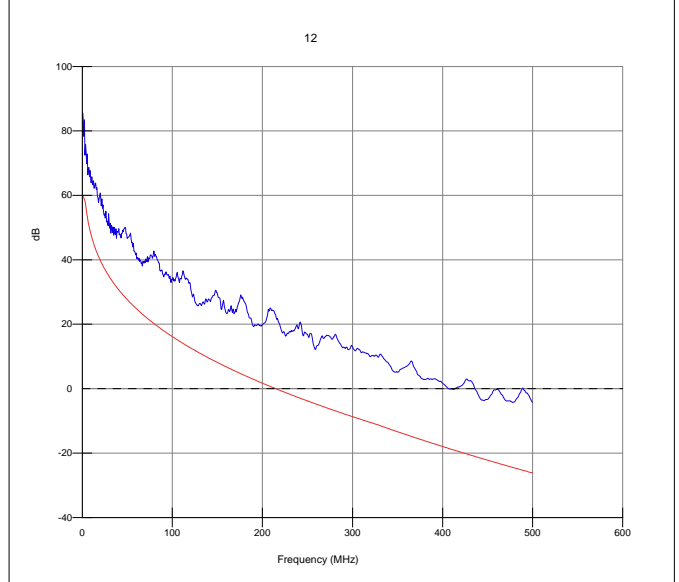
PSACR - Far End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

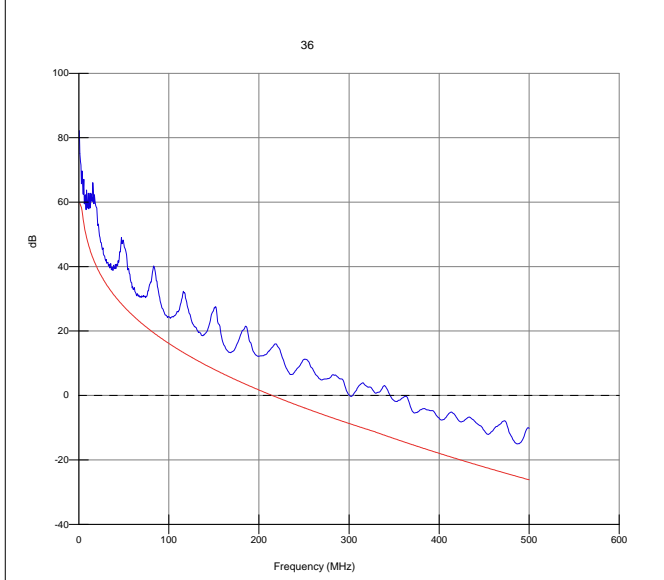
Limit Margin : 6.700 dB @ 34.216 MHz



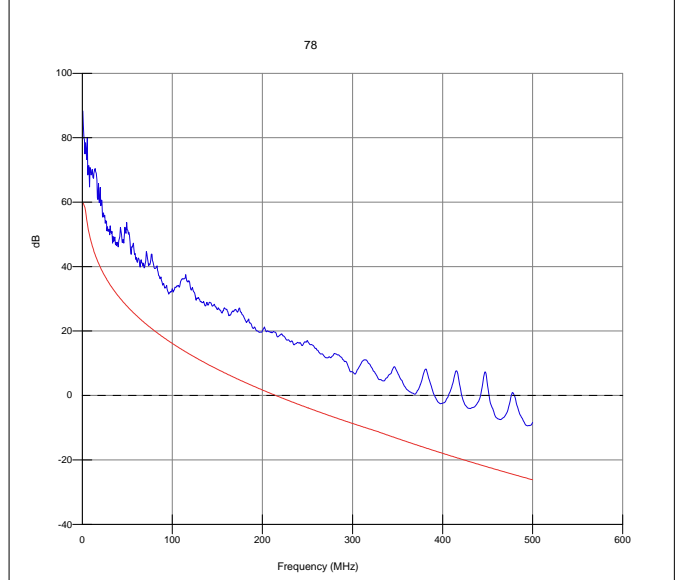
Limit Margin : 13.966 dB @ 6.119 MHz



Limit Margin : 6.579 dB @ 34.216 MHz



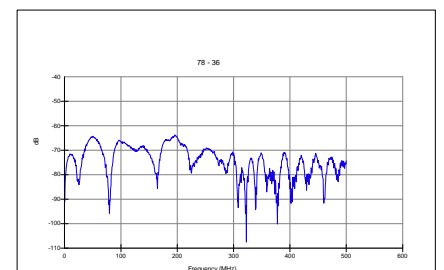
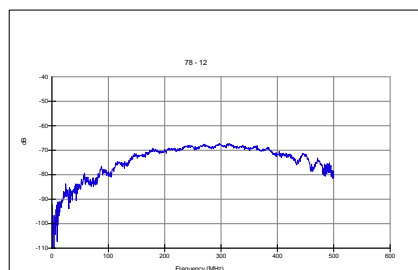
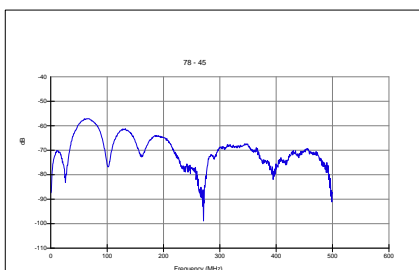
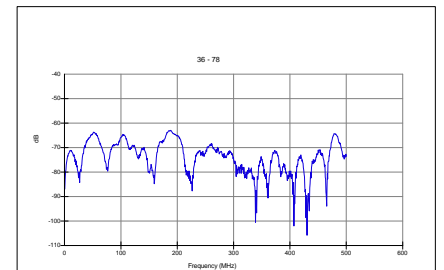
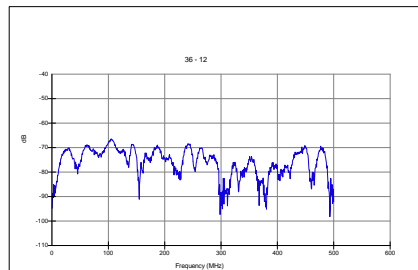
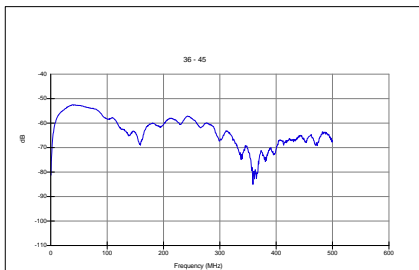
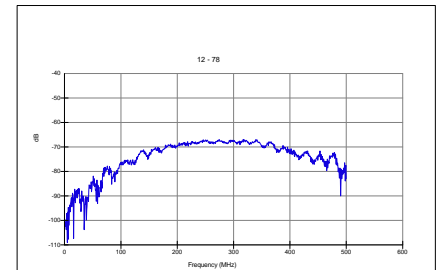
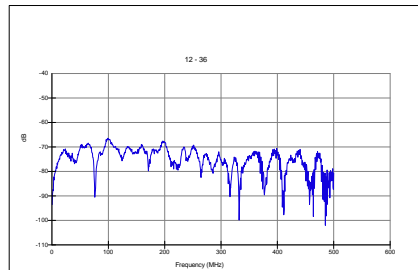
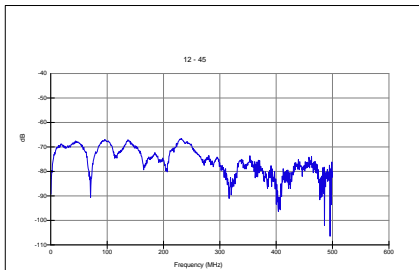
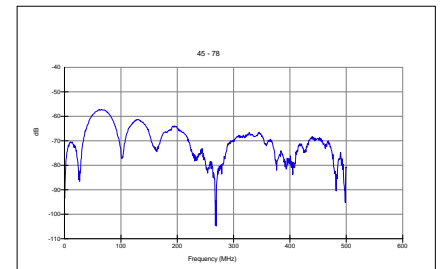
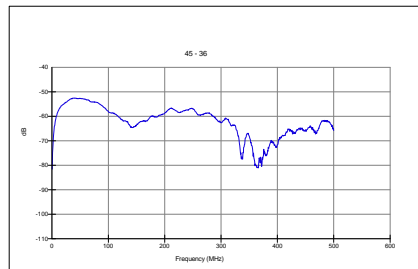
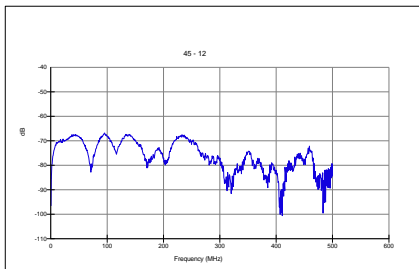
Limit Margin : 14.065 dB @ 33.592 MHz





FEXT - Near End

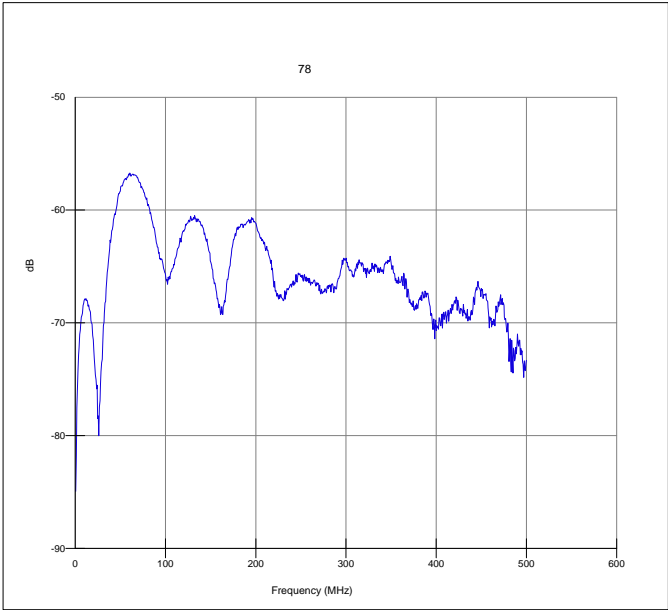
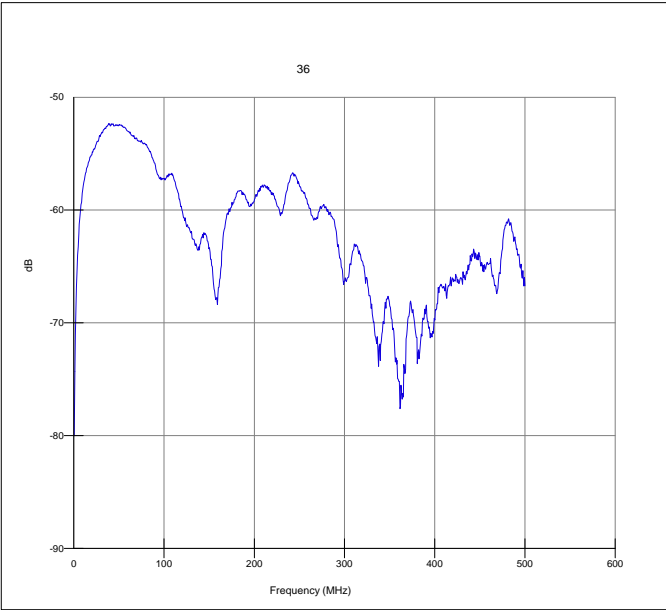
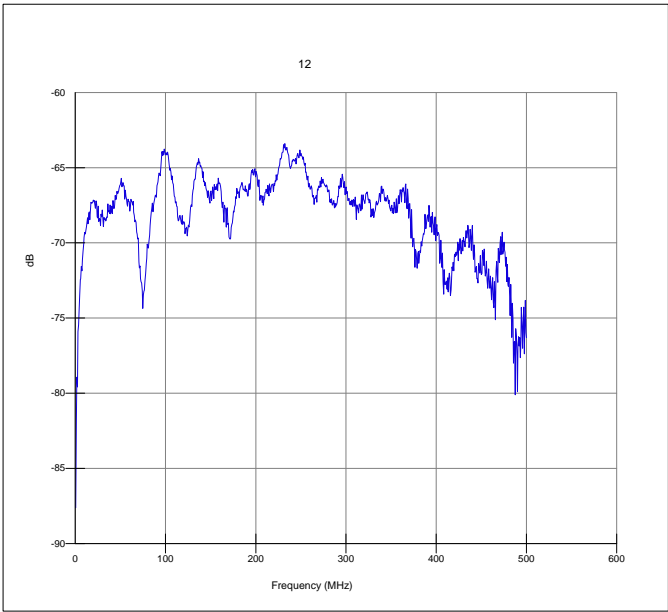
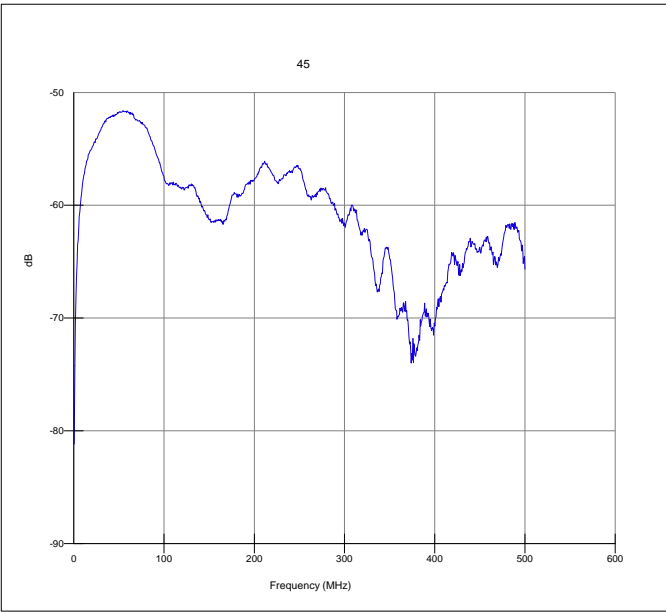
Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies





PSFEXT - Near End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

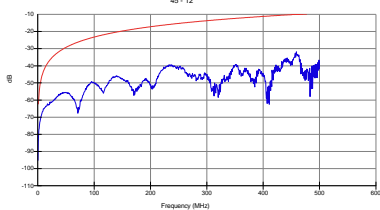




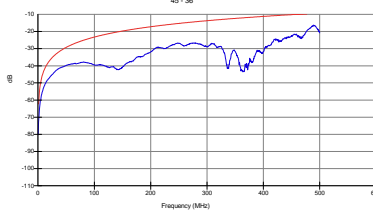
ACRF (ELFEXT) - Near End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

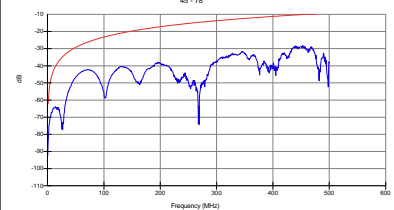
Limit Margin : 23.512 dB @ 232.768 MHz



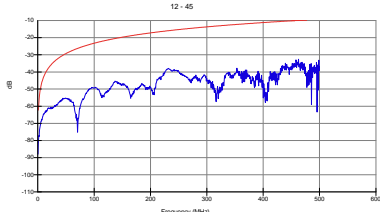
Limit Margin : 6.729 dB @ 488.761 MHz



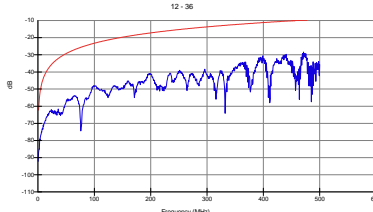
Limit Margin : 15.659 dB @ 66.059 MHz



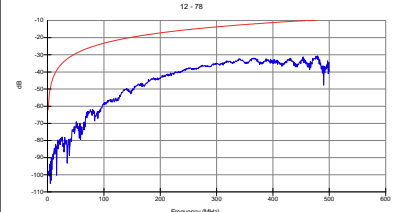
Limit Margin : 21.980 dB @ 232.143 MHz



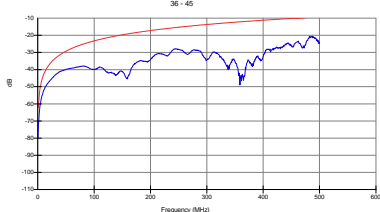
Limit Margin : 23.612 dB @ 196.554 MHz



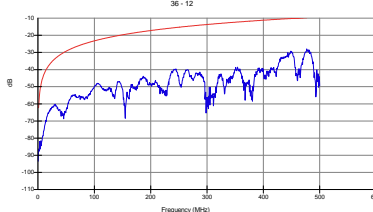
Limit Margin : 19.714 dB @ 341.409 MHz



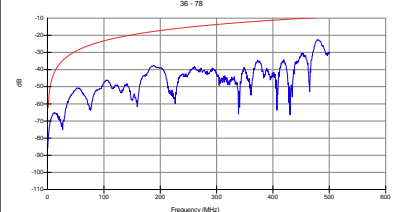
Limit Margin : 9.335 dB @ 9.241 MHz



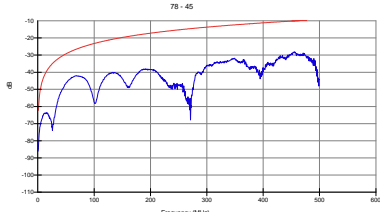
Limit Margin : 18.225 dB @ 476.898 MHz



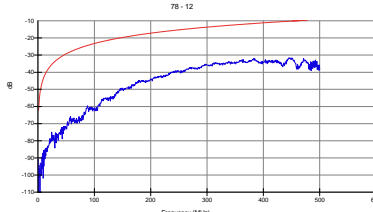
Limit Margin : 12.956 dB @ 478.147 MHz



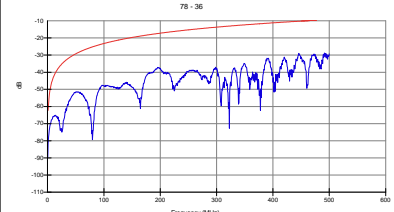
Limit Margin : 15.350 dB @ 60.440 MHz



Limit Margin : 20.462 dB @ 383.242 MHz



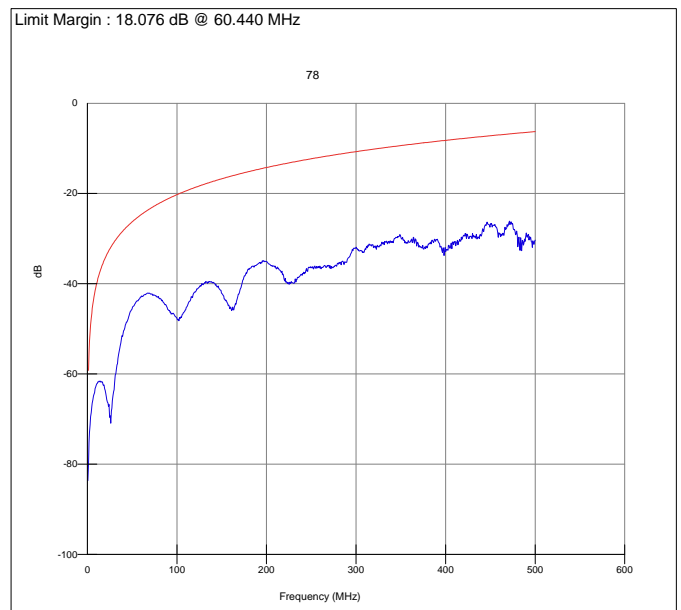
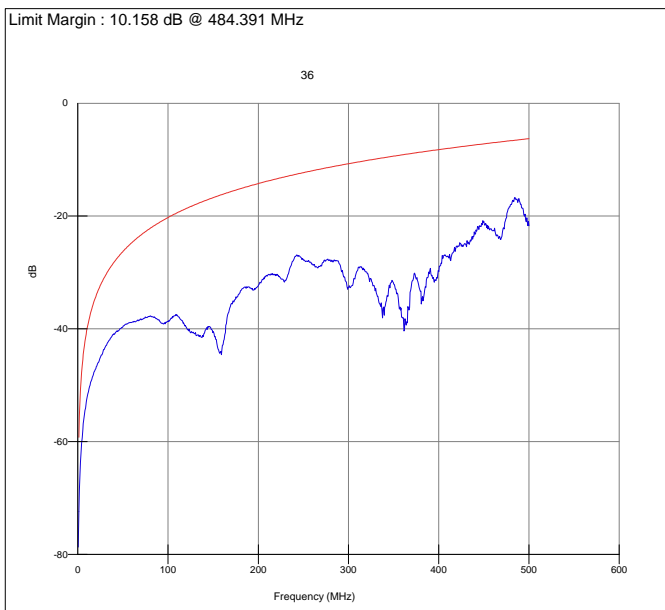
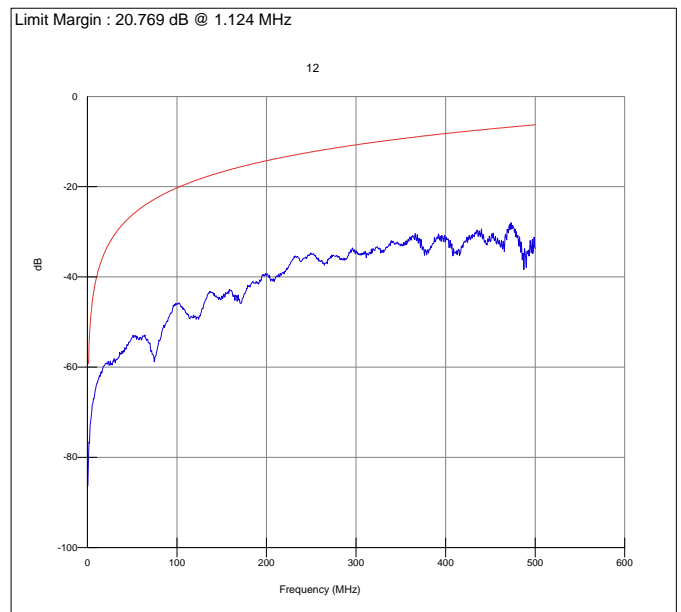
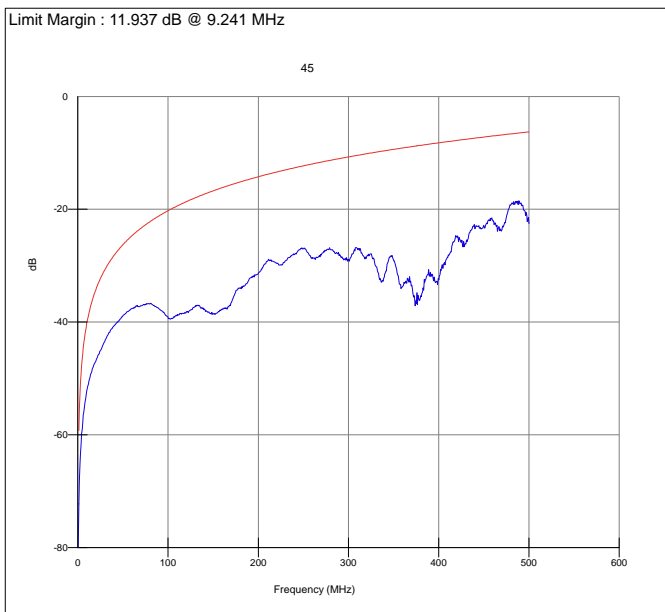
Limit Margin : 19.735 dB @ 195.305 MHz





PSACRF (PSELFEXT) - Near End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

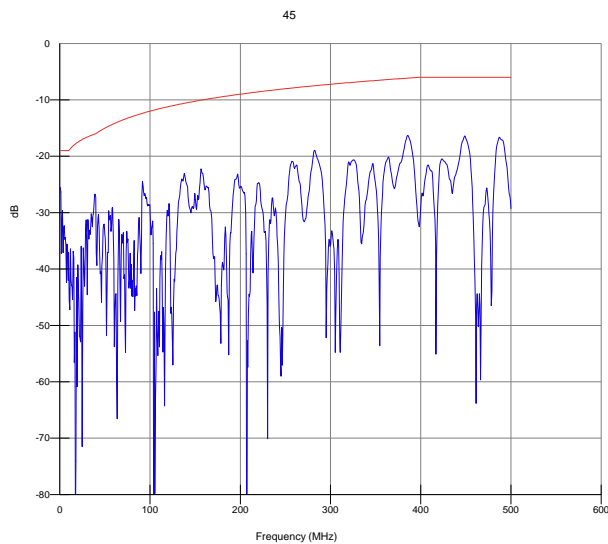




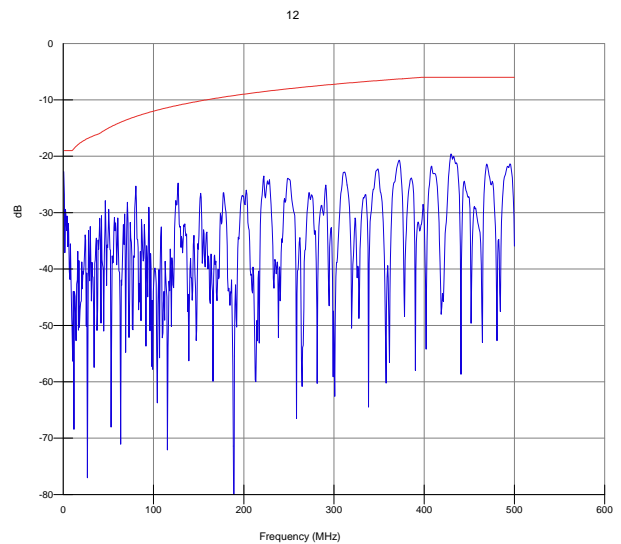
Return Loss - Near End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

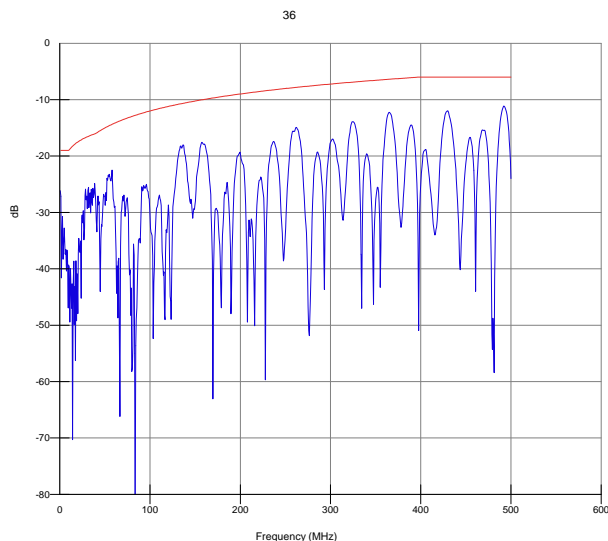
Limit Margin : 7.340 dB @ 1.124 MHz



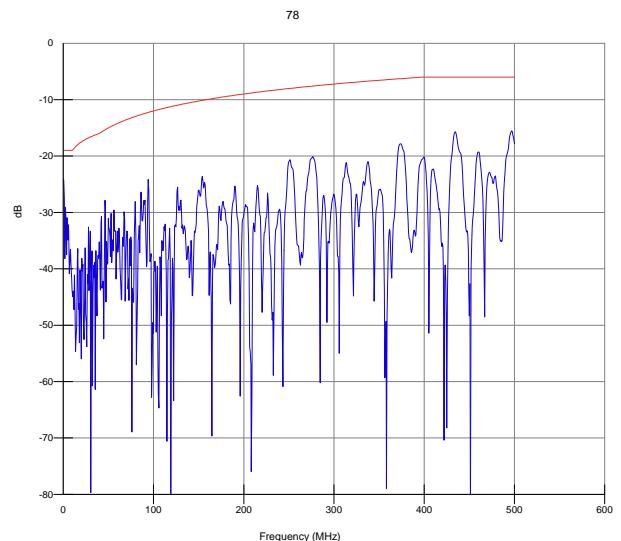
Limit Margin : 7.780 dB @ 1.124 MHz



Limit Margin : 5.150 dB @ 491.883 MHz



Limit Margin : 8.603 dB @ 1.124 MHz

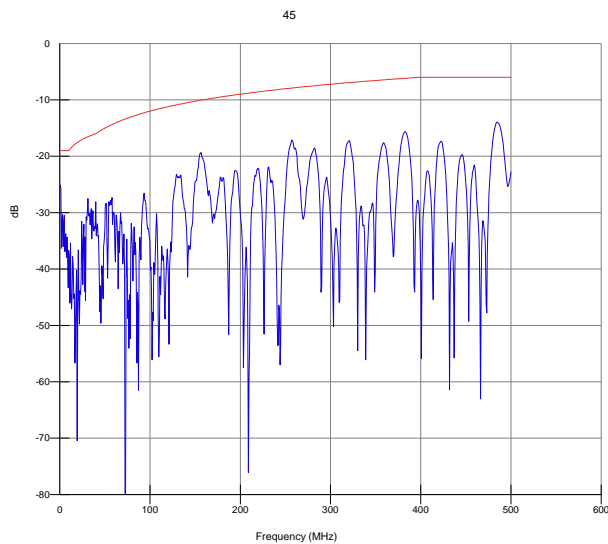




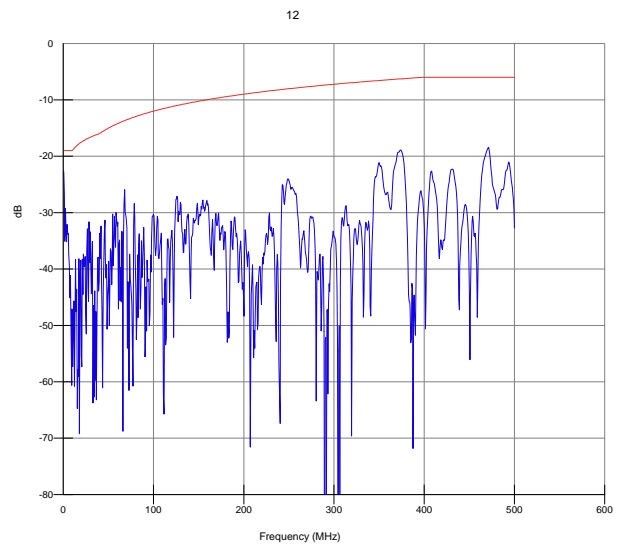
Return Loss - Far End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

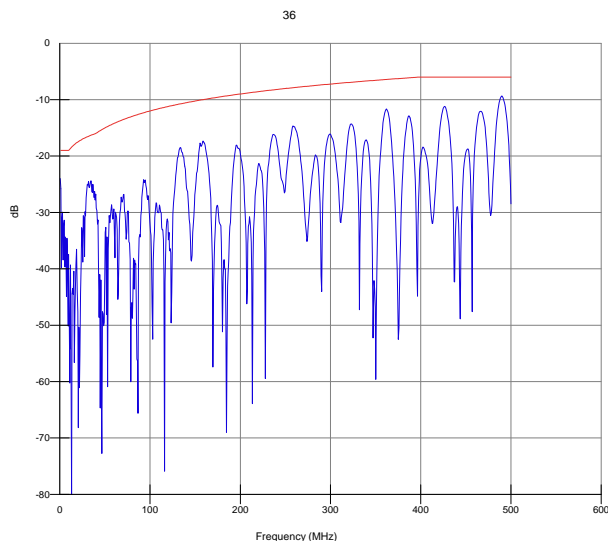
Limit Margin : 6.878 dB @ 1.124 MHz



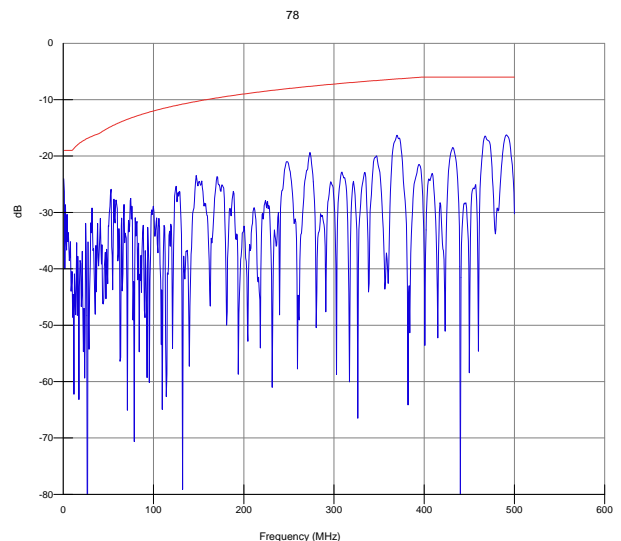
Limit Margin : 7.588 dB @ 1.124 MHz



Limit Margin : 3.367 dB @ 490.010 MHz



Limit Margin : 7.308 dB @ 1.124 MHz

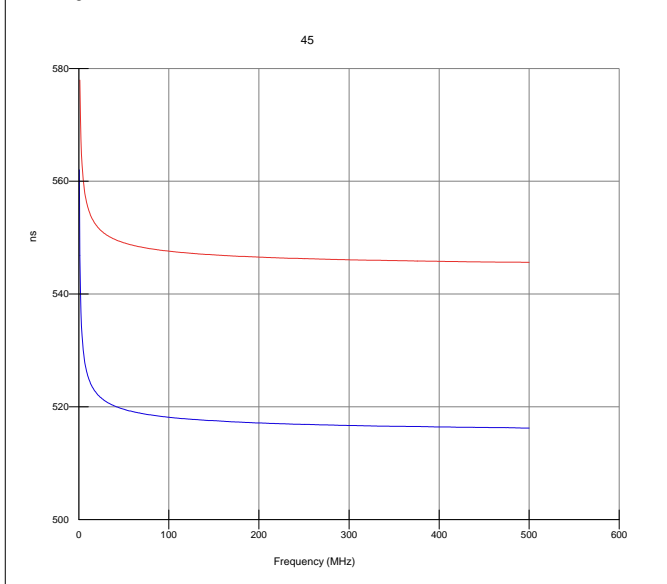




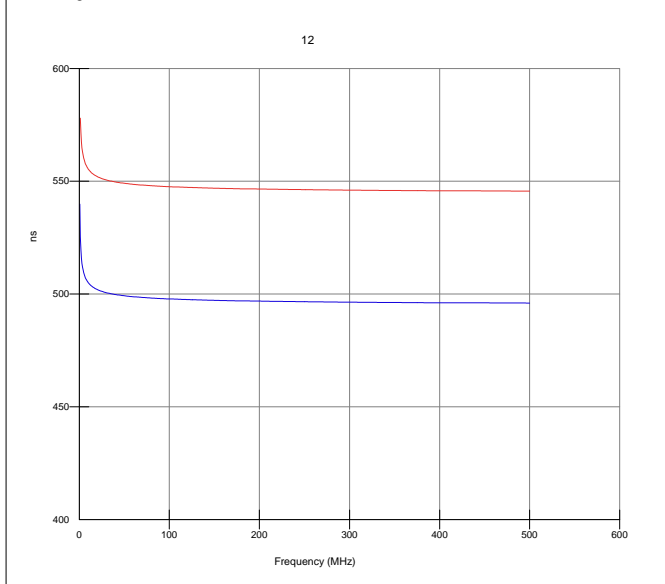
Propagation Delay - Near End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

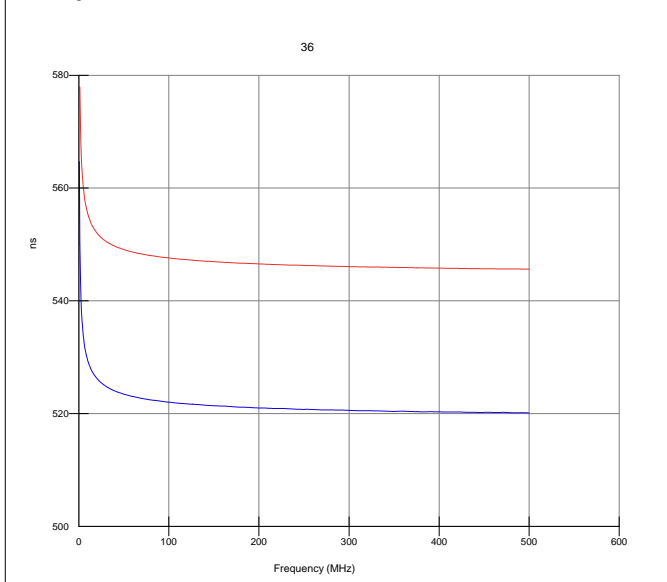
Limit Margin : 29.340 ns @ 473.776 MHz



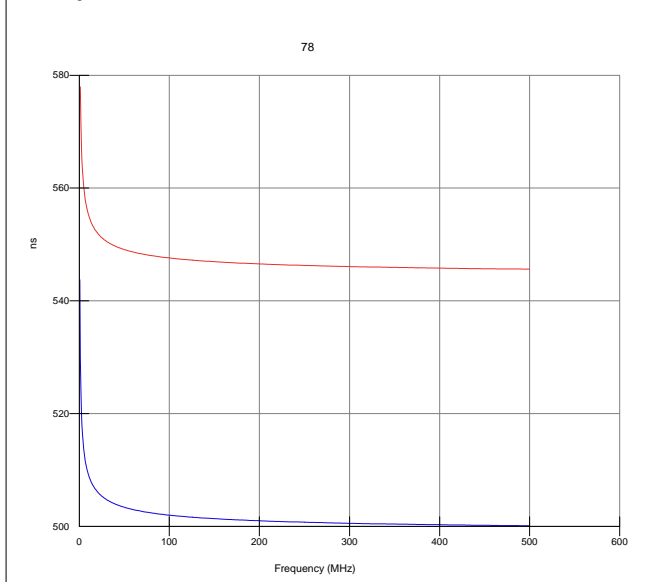
Limit Margin : 49.620 ns @ 467.533 MHz



Limit Margin : 25.450 ns @ 470.030 MHz



Limit Margin : 45.490 ns @ 473.776 MHz

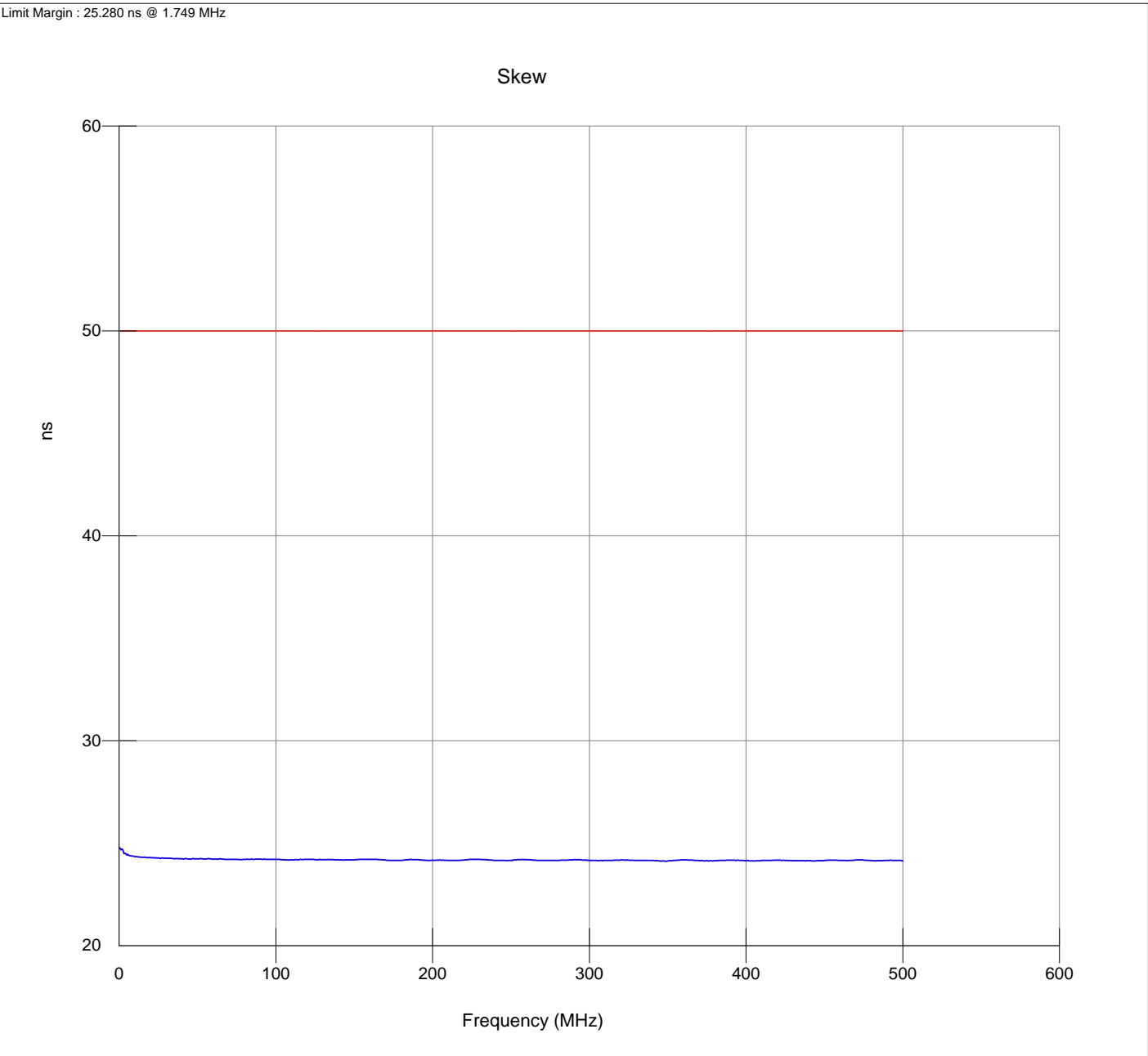




Propagation Delay Skew - Near End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

Limit Margin : 25.280 ns @ 1.749 MHz

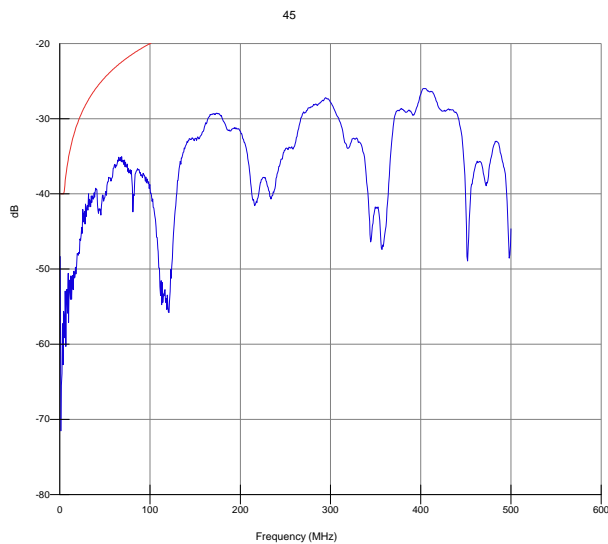




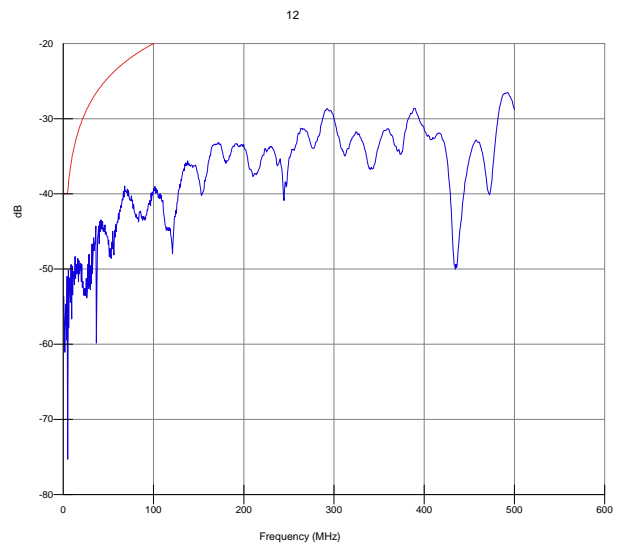
TCL - Near End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

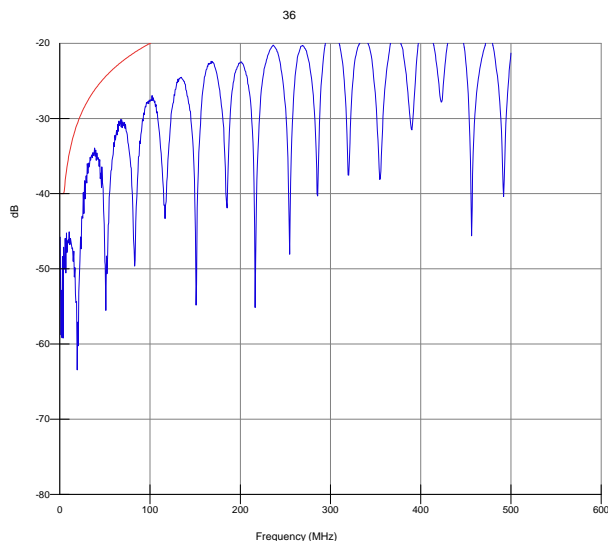
Limit Margin : 12.357 dB @ 65.435 MHz



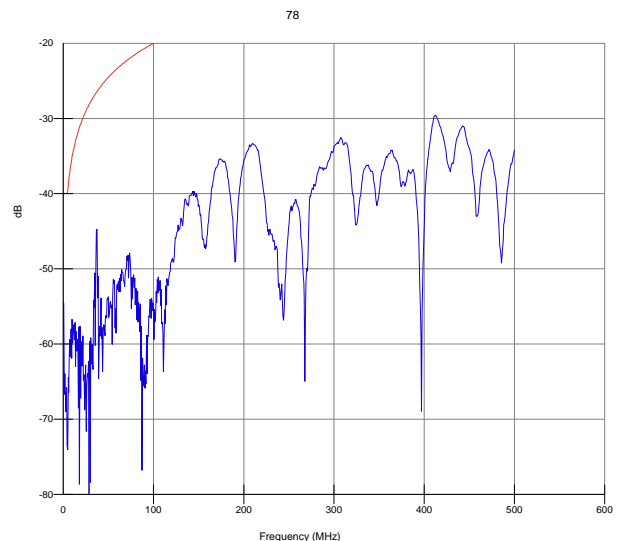
Limit Margin : 10.989 dB @ 4.246 MHz



Limit Margin : 5.125 dB @ 300.824 MHz



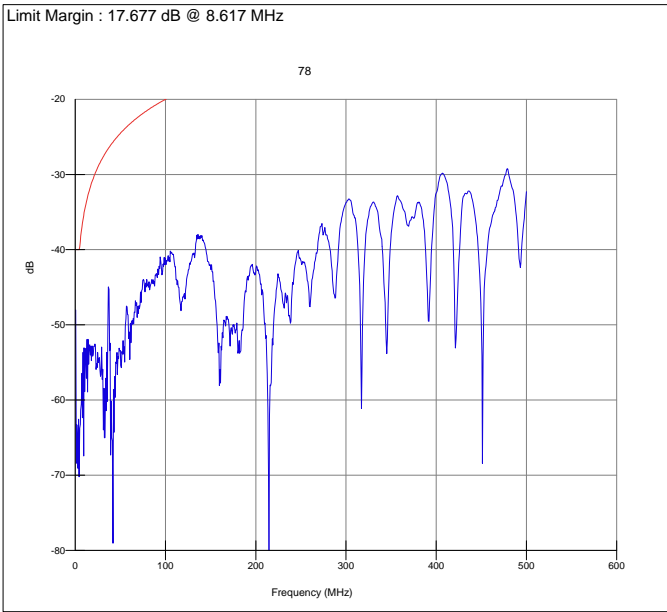
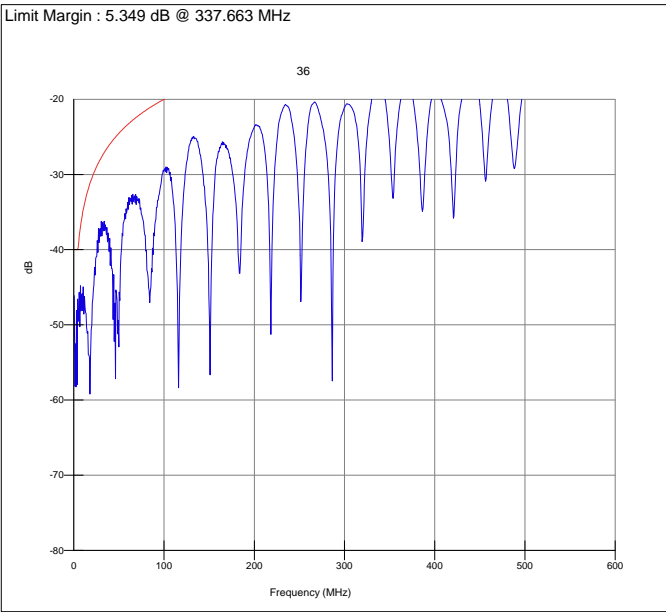
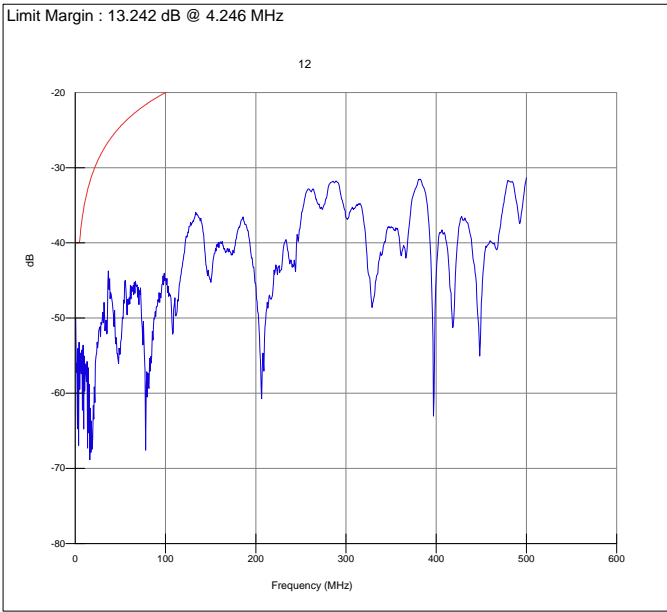
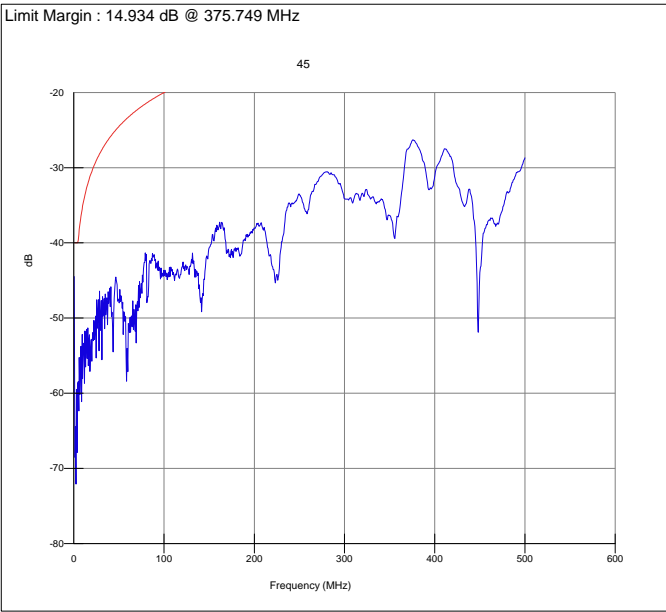
Limit Margin : 18.156 dB @ 209.666 MHz





TCL - Far End

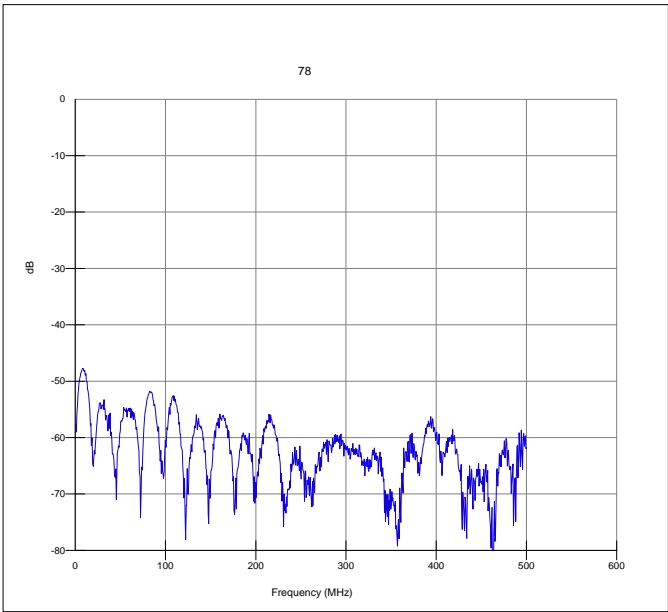
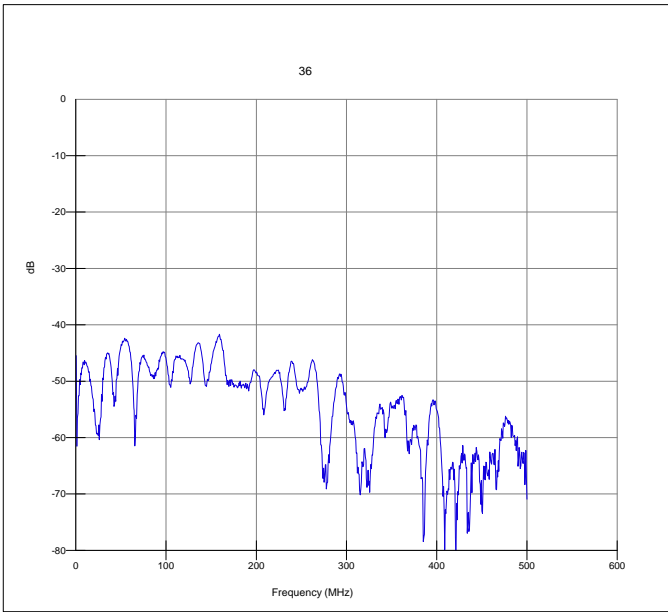
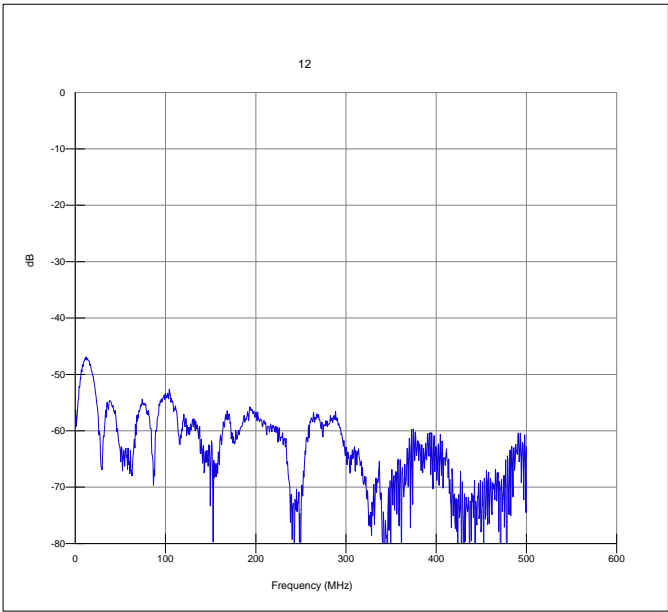
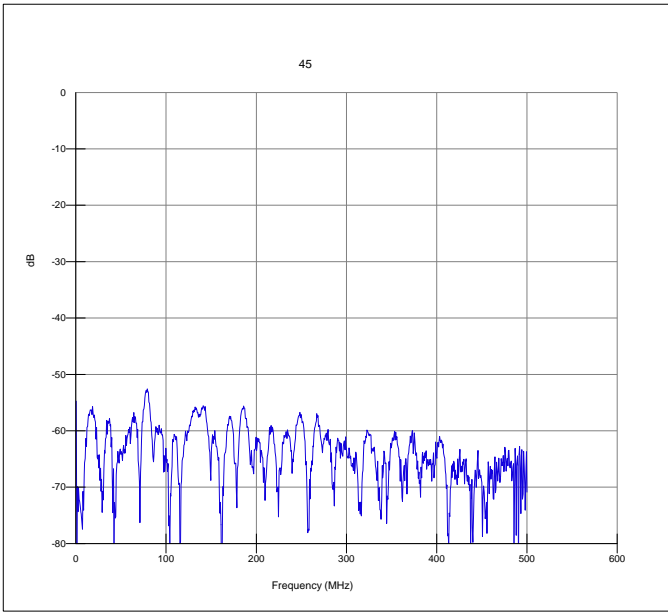
Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies





TCTL - Near End

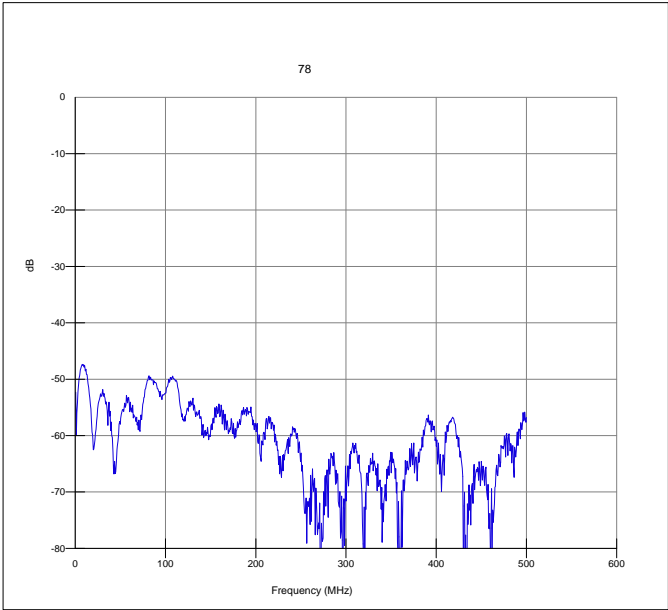
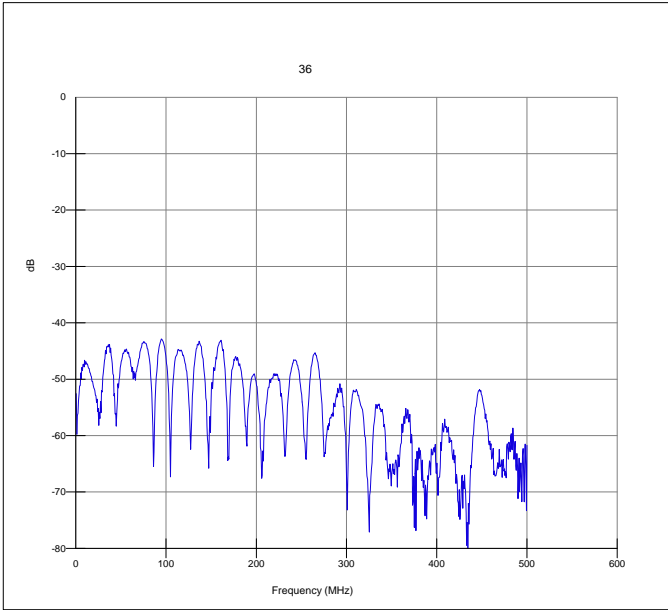
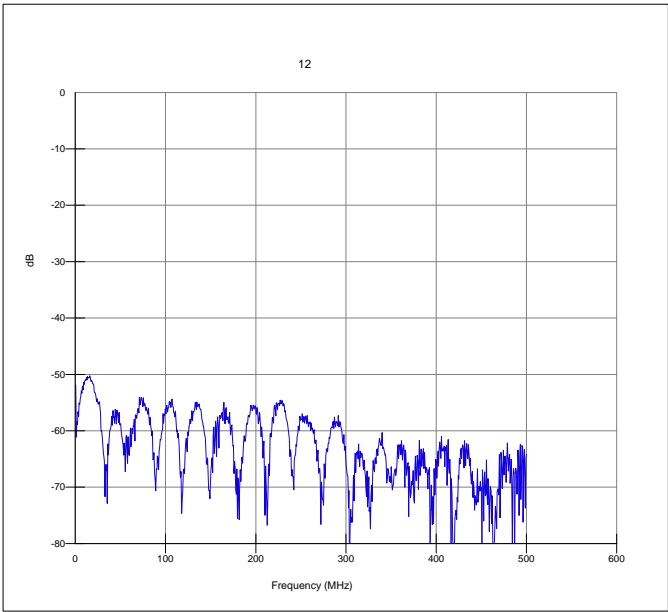
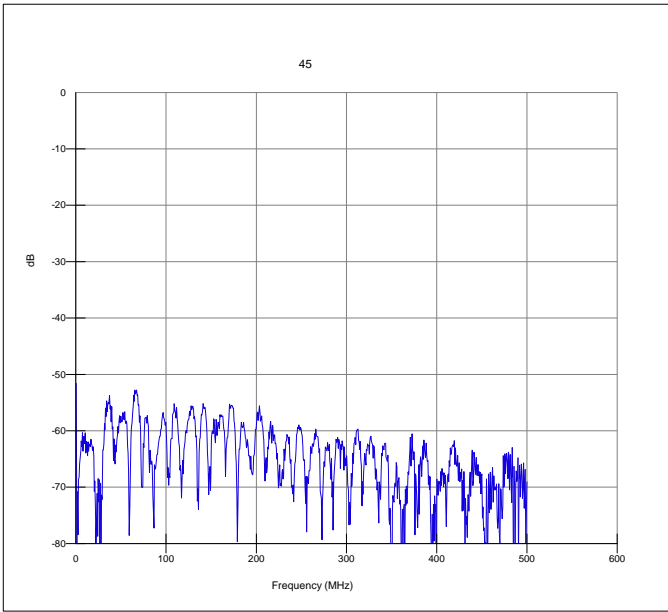
Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies





TCTL - Far End

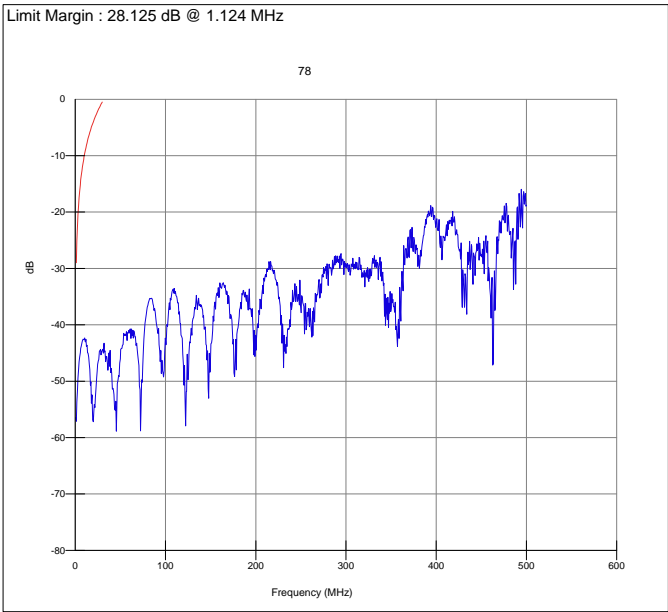
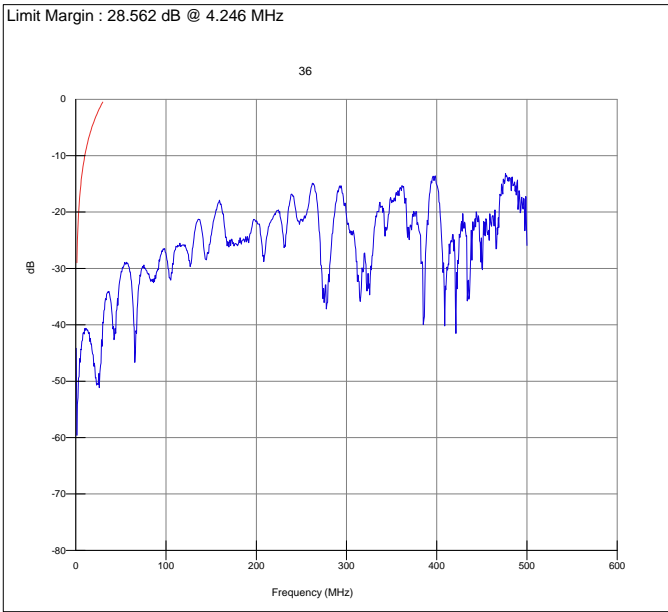
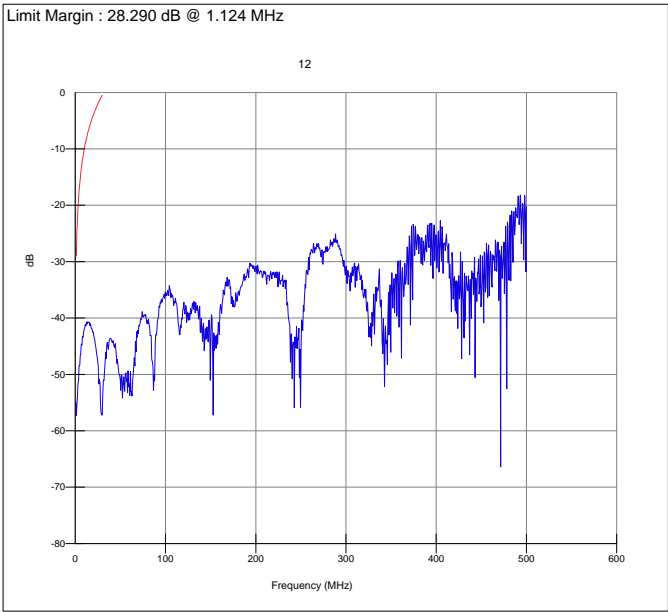
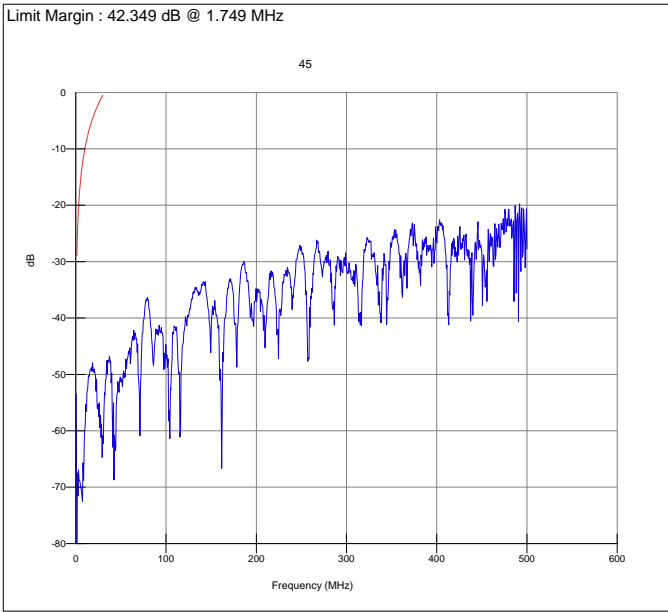
Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies





ELTCTL - Near End

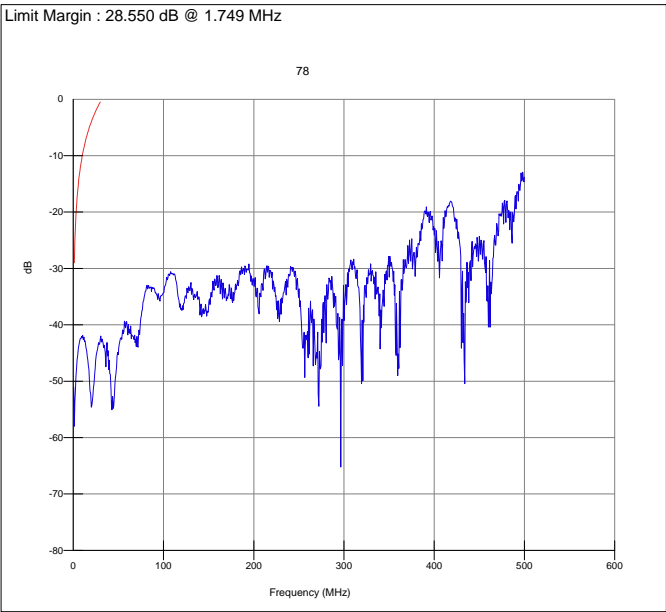
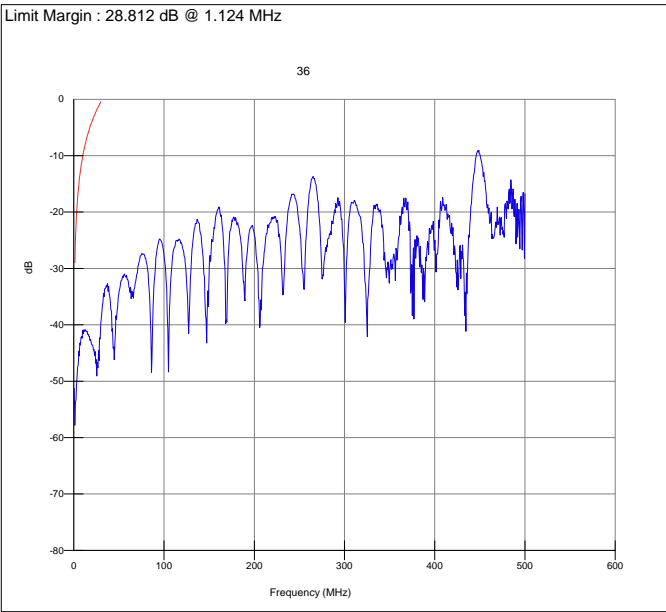
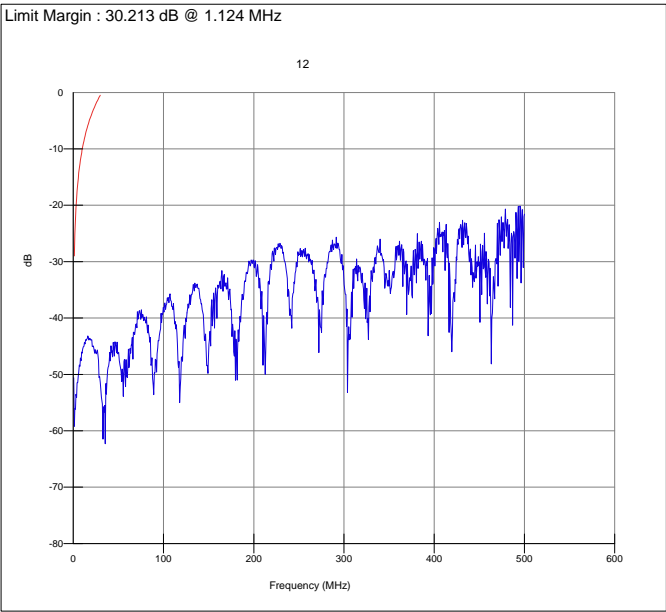
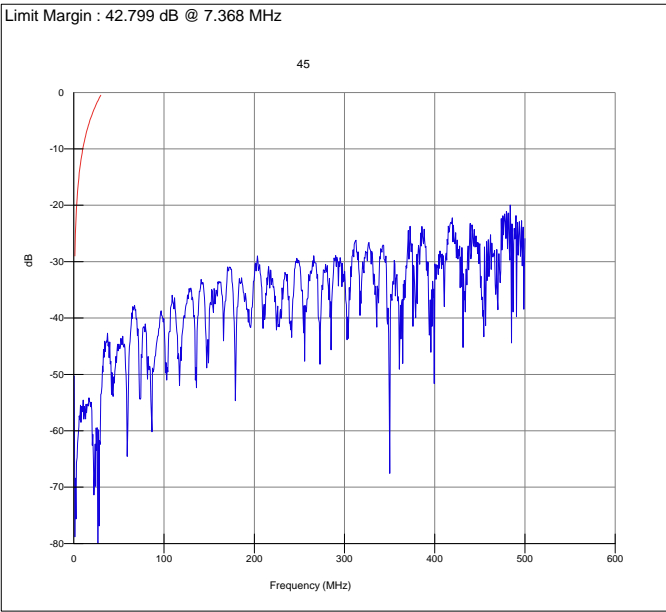
Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies





ELTCTL - Far End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies





Schneider Electric India Pvt. Ltd.,

Test report number 102750607CRT-004a
November 9, 2016

Appendix B

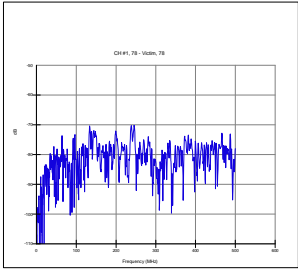
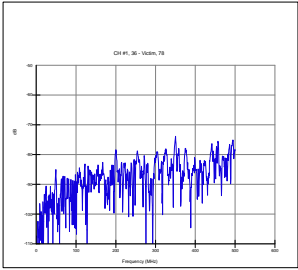
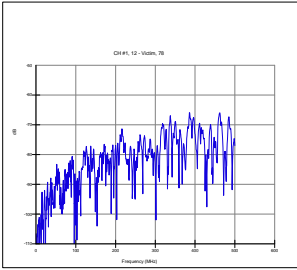
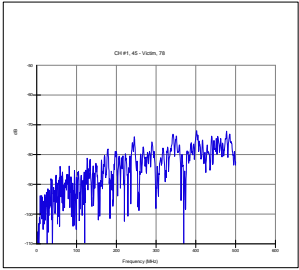
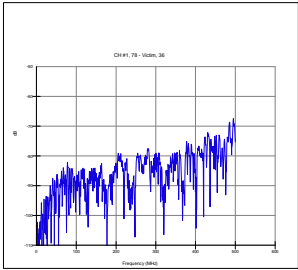
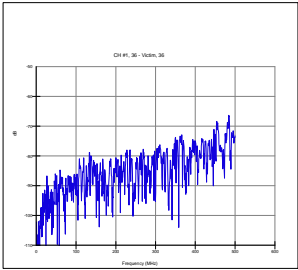
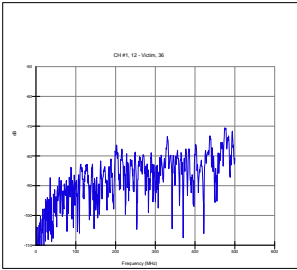
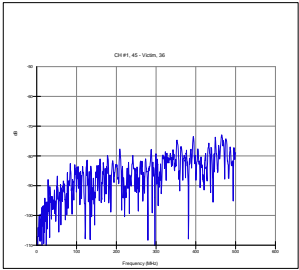
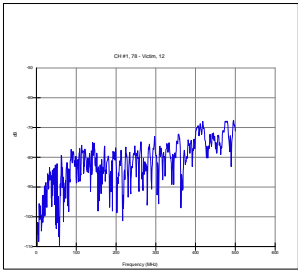
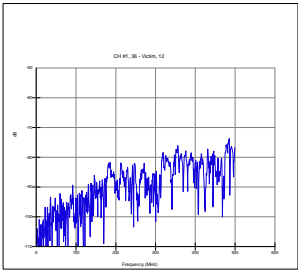
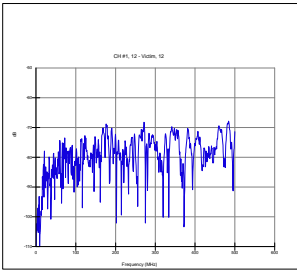
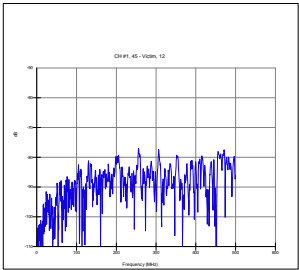
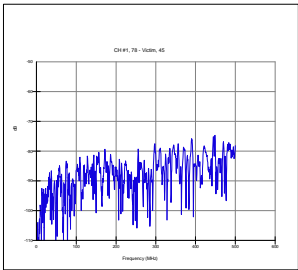
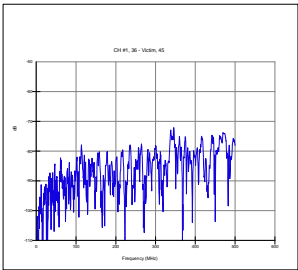
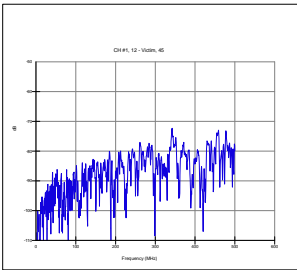
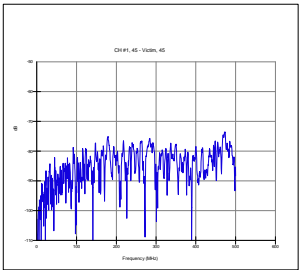
External (alien) test results

This appendix contains 24 pages.



ANEXT - Near End

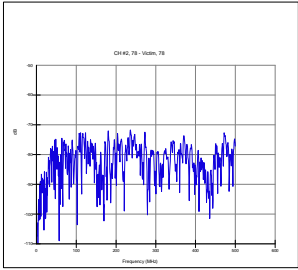
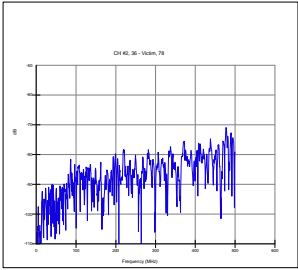
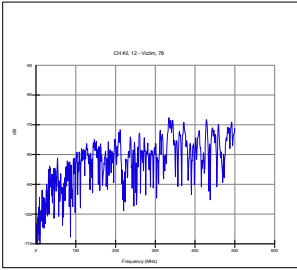
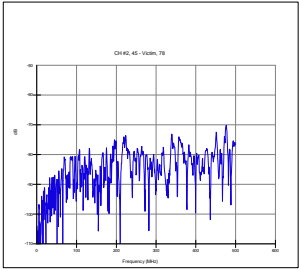
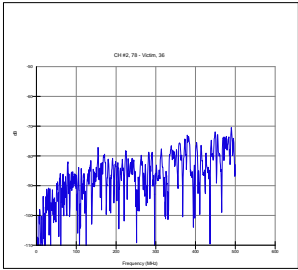
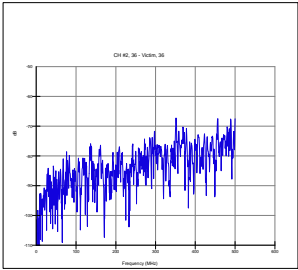
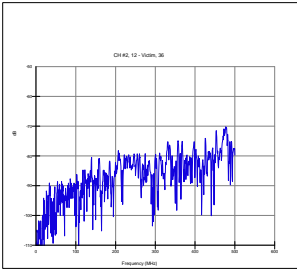
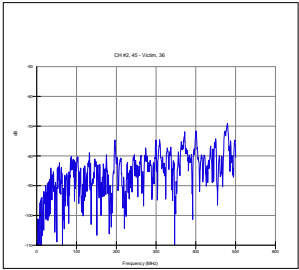
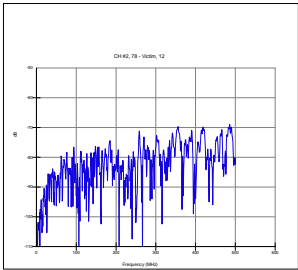
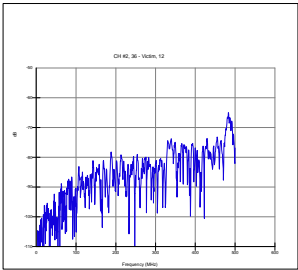
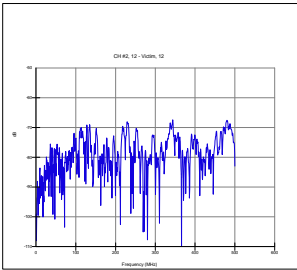
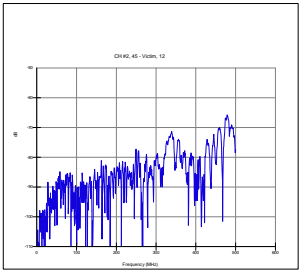
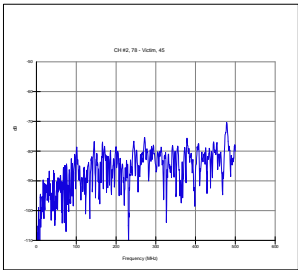
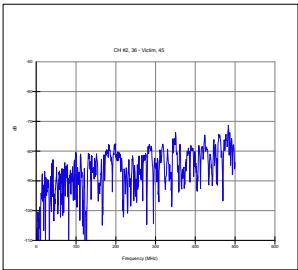
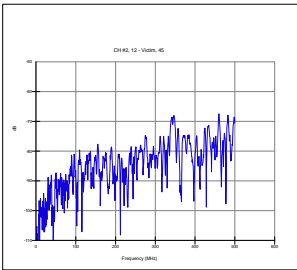
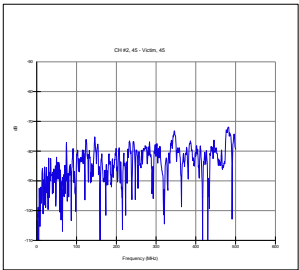
Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





ANEXT - Near End

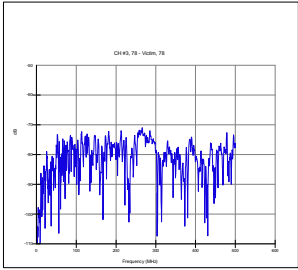
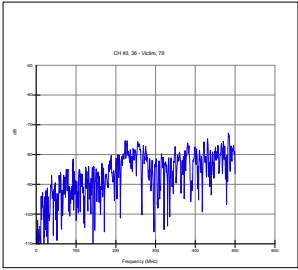
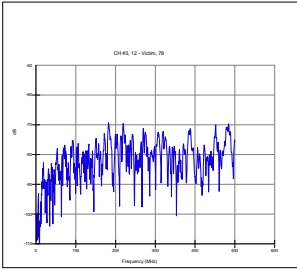
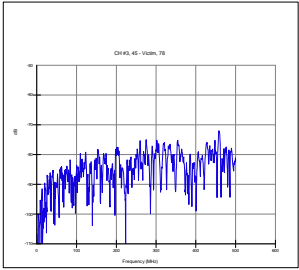
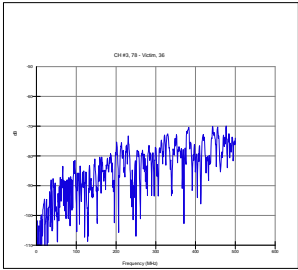
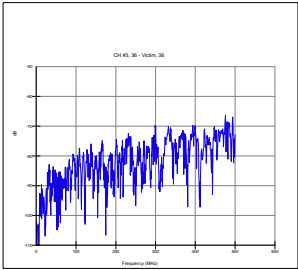
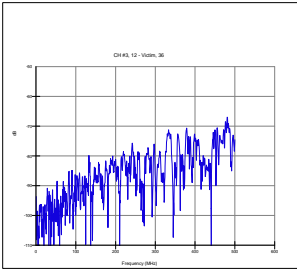
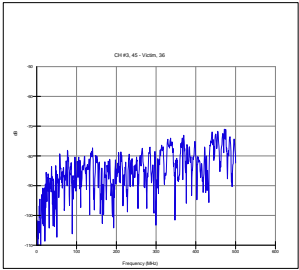
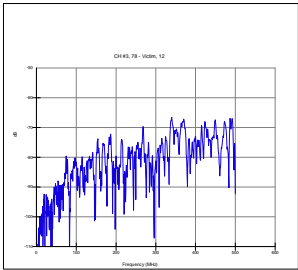
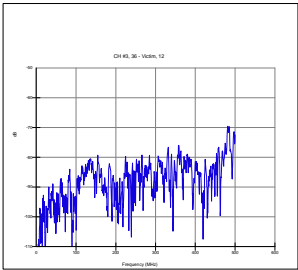
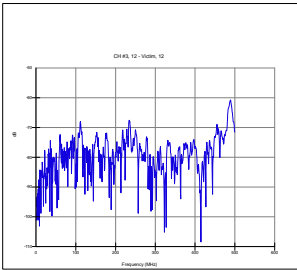
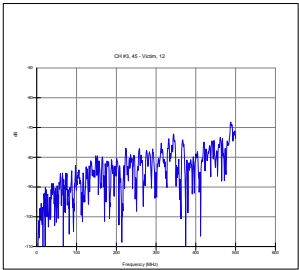
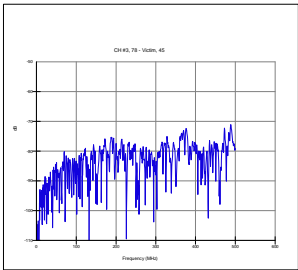
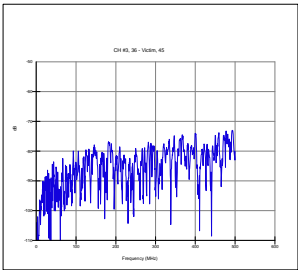
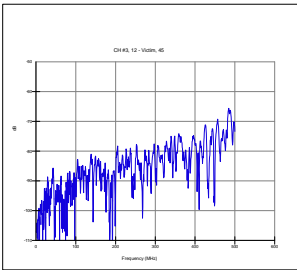
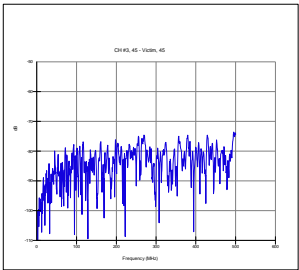
Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





ANEXT - Near End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





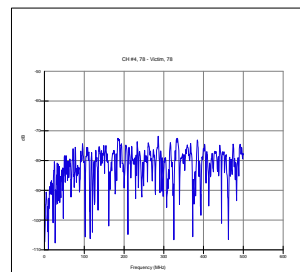
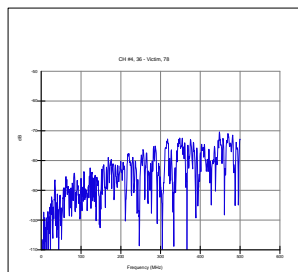
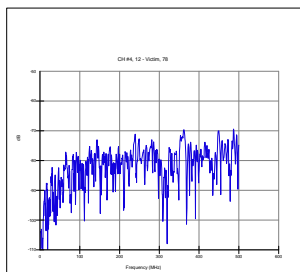
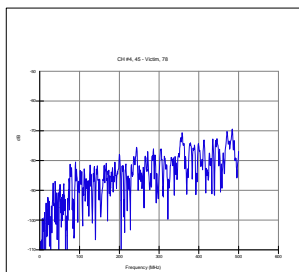
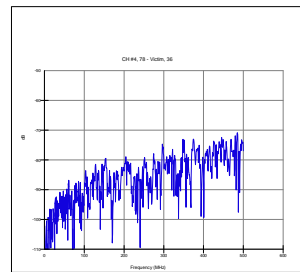
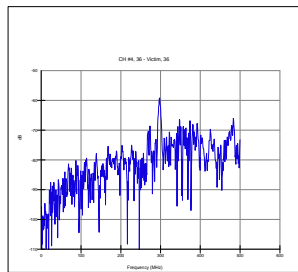
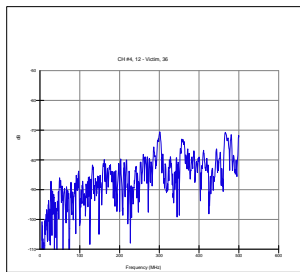
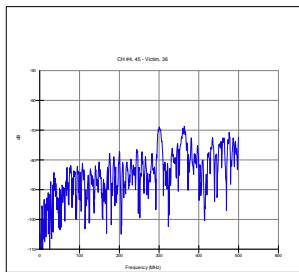
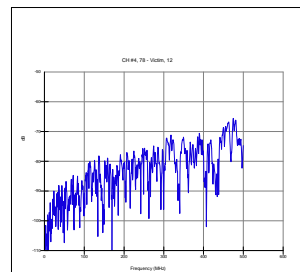
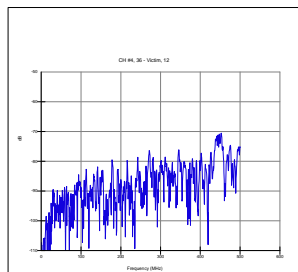
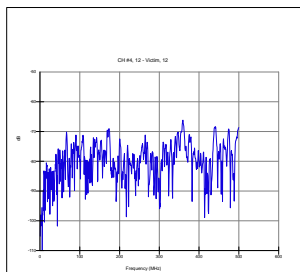
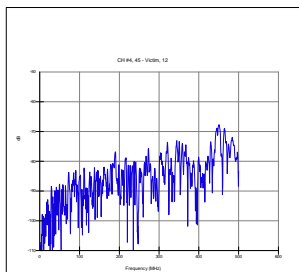
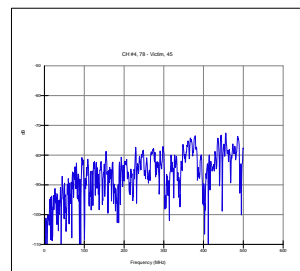
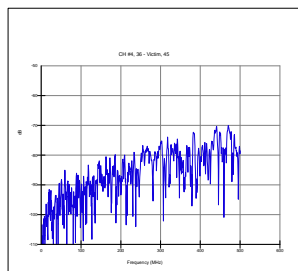
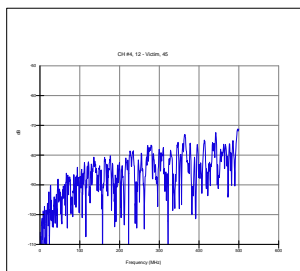
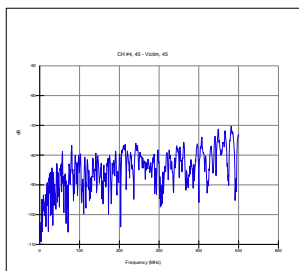
ANEXT - Near End

Client
Specification
Part No
Test Started
Description
Operator Name

Schneider Electric India
ANSI-TIA-568-C2 Cat 6A Channel
ACTTG46AULS3RBU
11/1/2016 2:48:42 PM
4 Conn Channel
David Ayers

Report No
Length(m)
Temperature
Appendix
Test Status

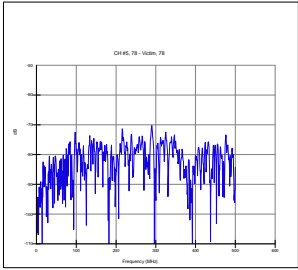
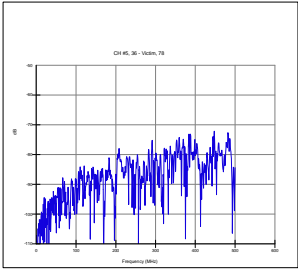
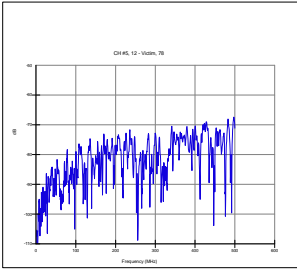
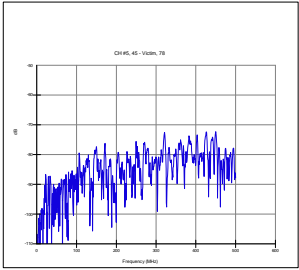
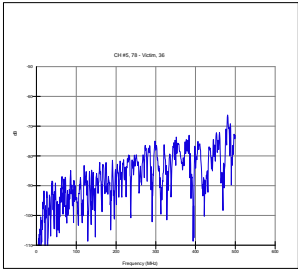
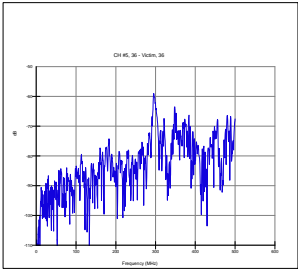
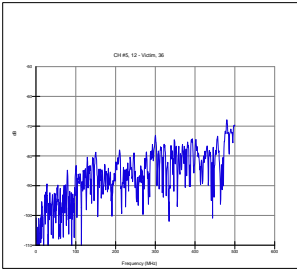
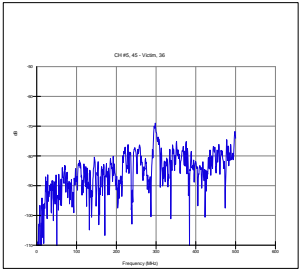
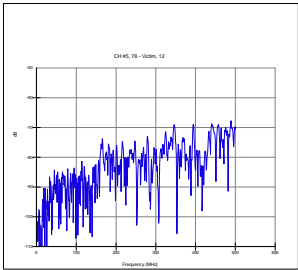
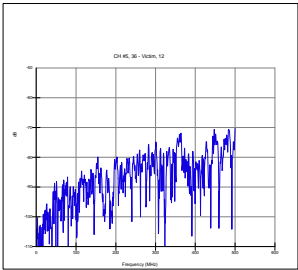
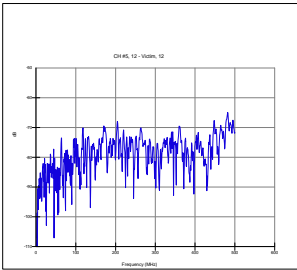
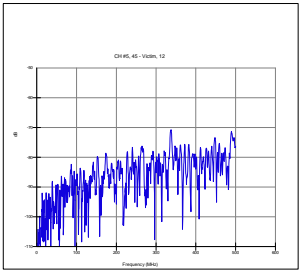
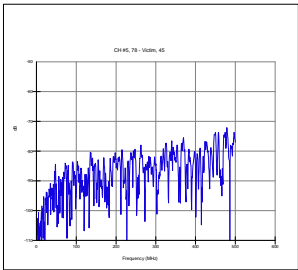
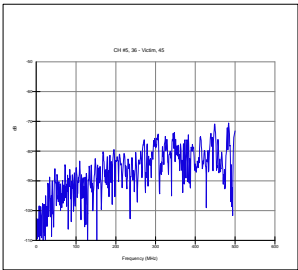
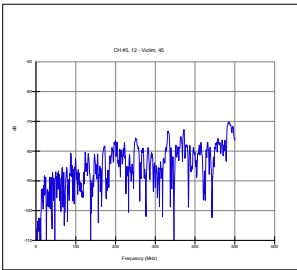
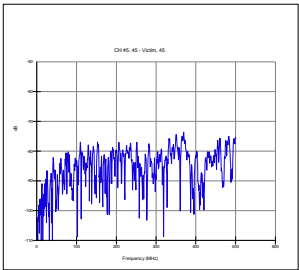
102750607CRT-004a
98.
22.1 °C
B
Complies





ANEXT - Near End

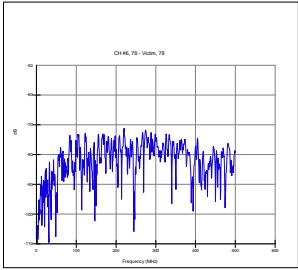
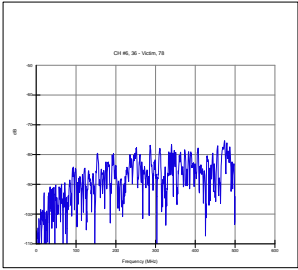
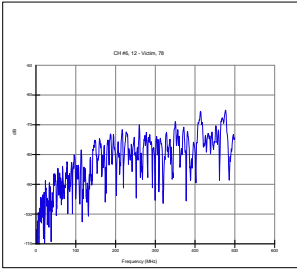
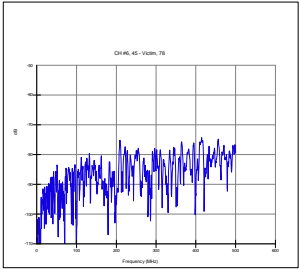
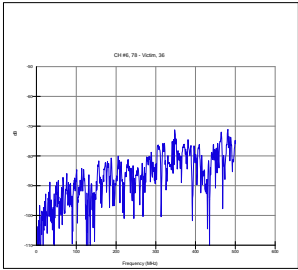
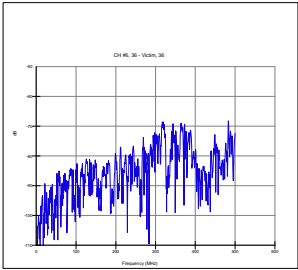
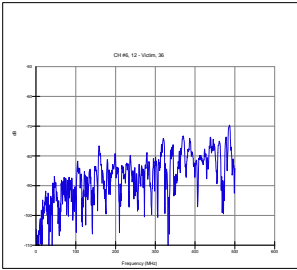
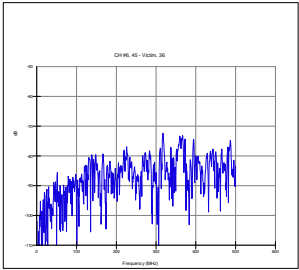
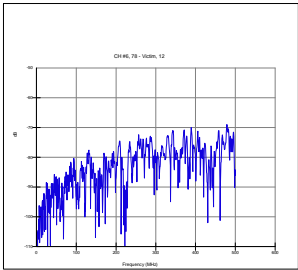
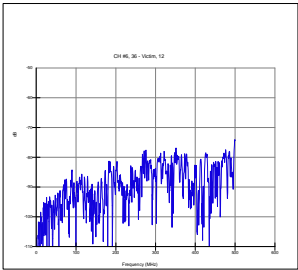
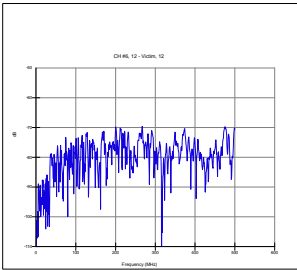
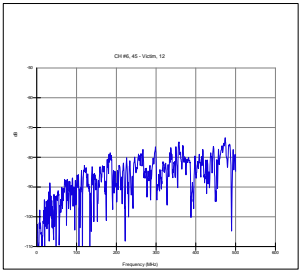
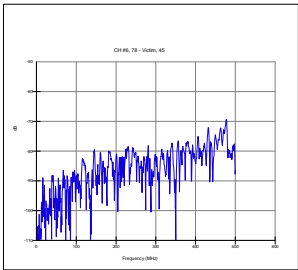
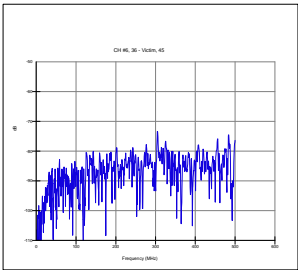
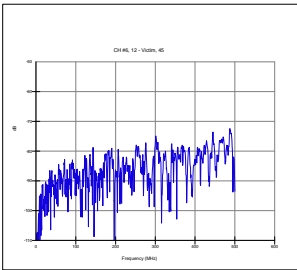
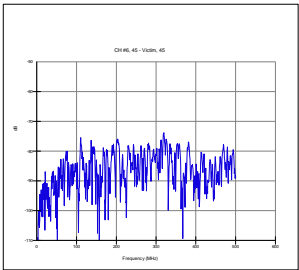
Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





ANEXT - Near End

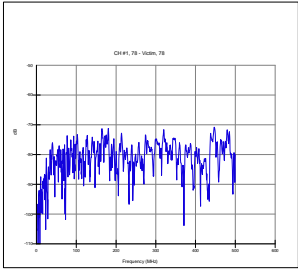
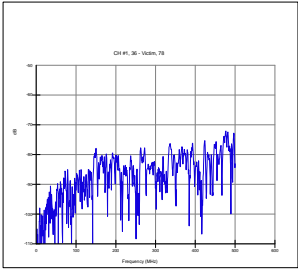
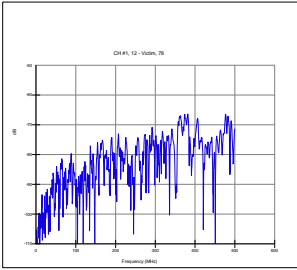
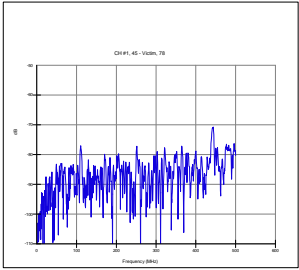
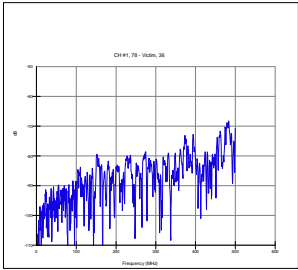
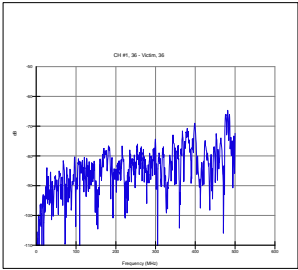
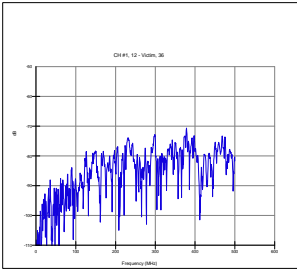
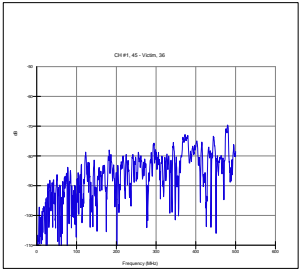
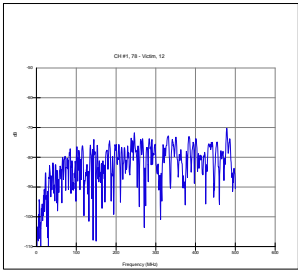
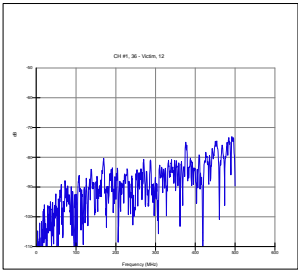
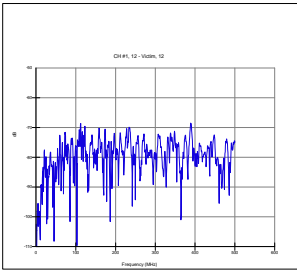
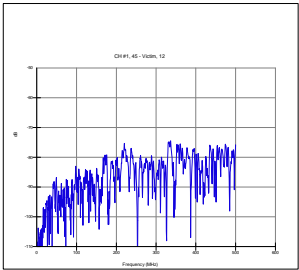
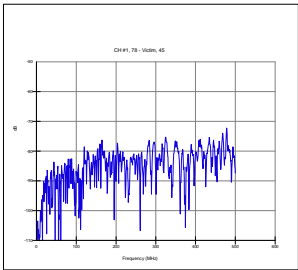
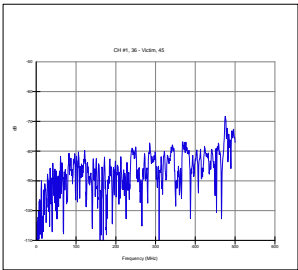
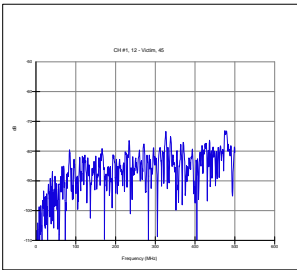
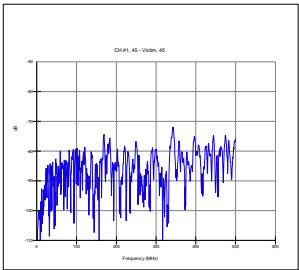
Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





ANEXT - Far End

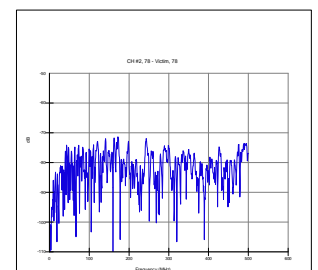
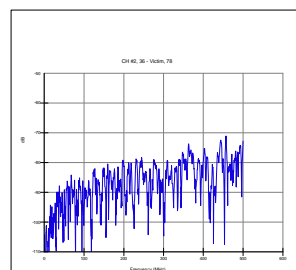
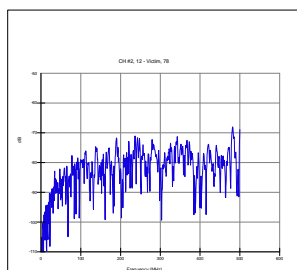
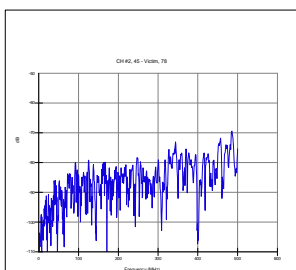
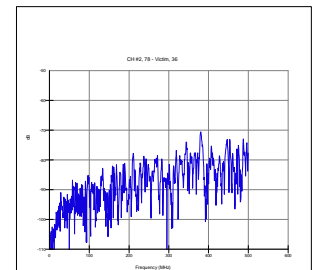
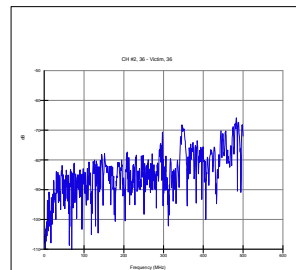
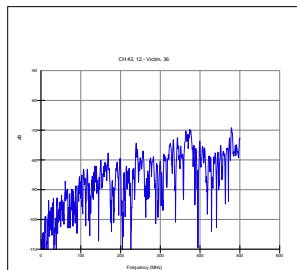
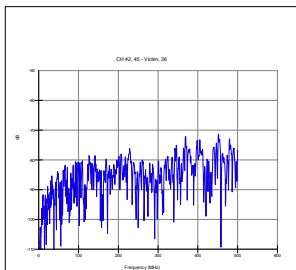
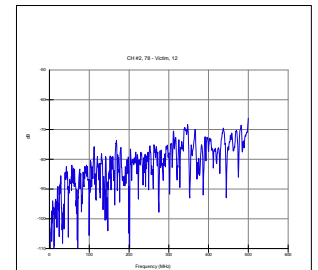
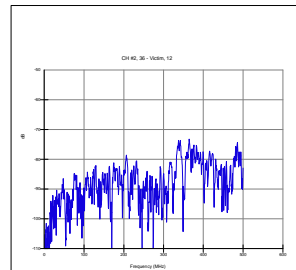
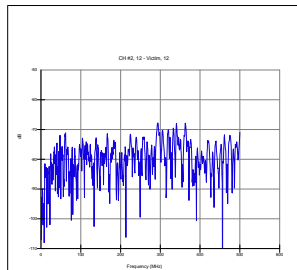
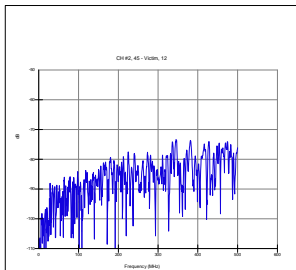
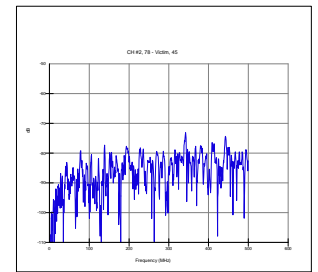
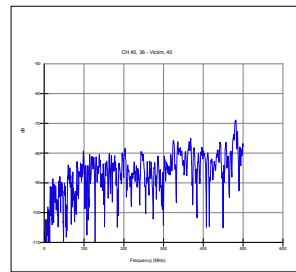
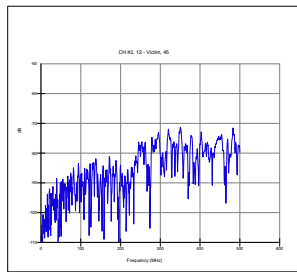
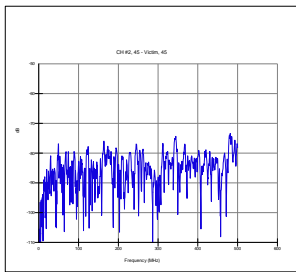
Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





ANEXT - Far End

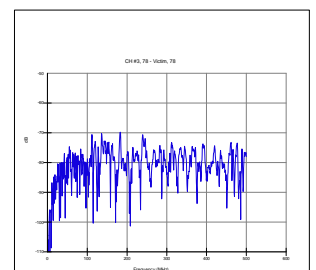
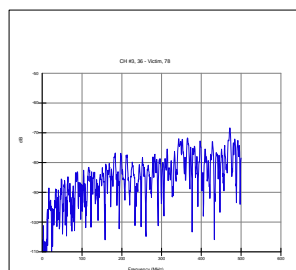
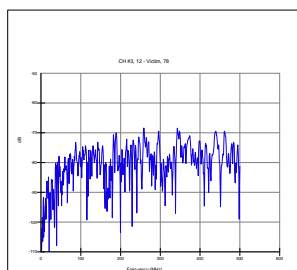
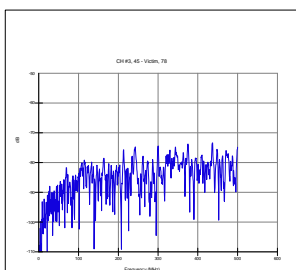
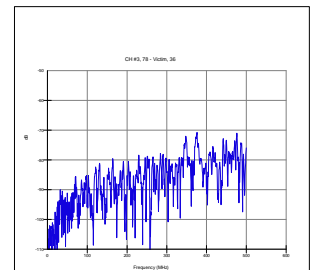
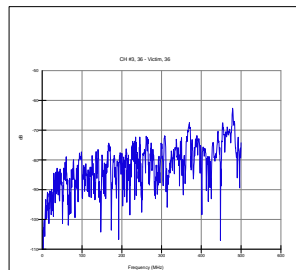
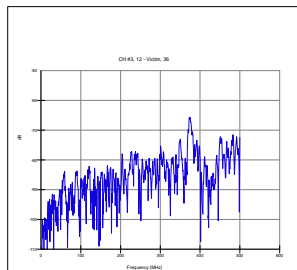
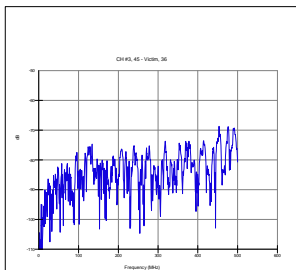
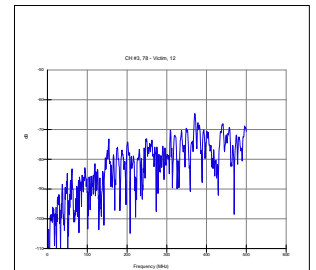
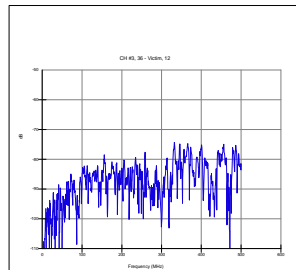
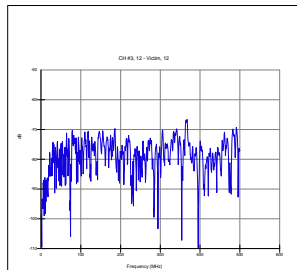
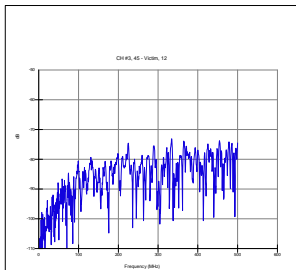
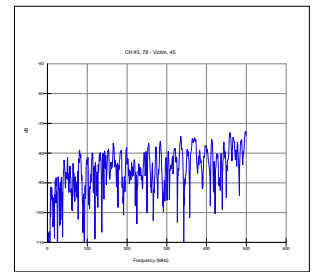
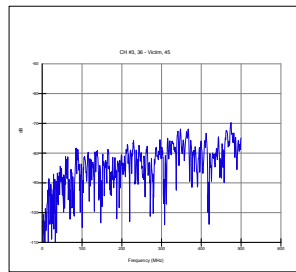
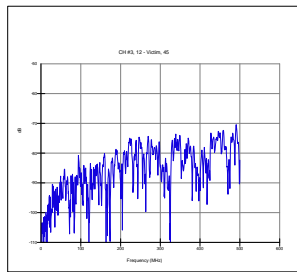
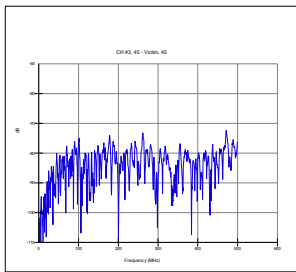
Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





ANEXT - Far End

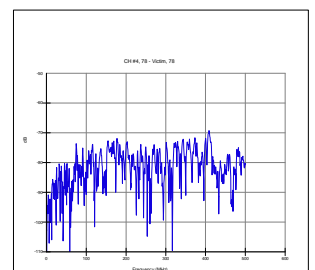
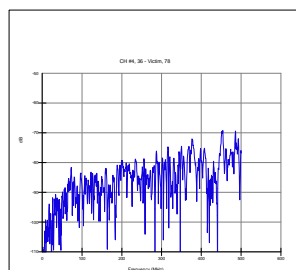
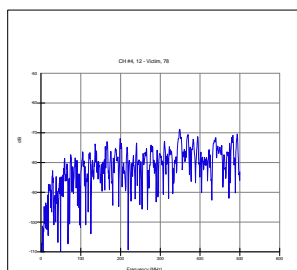
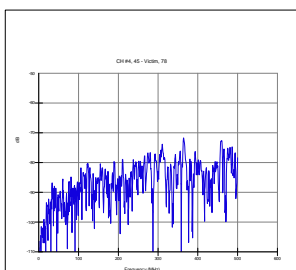
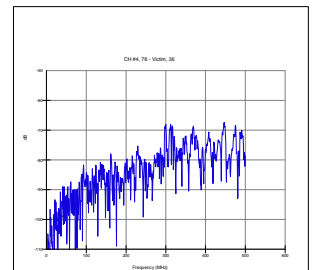
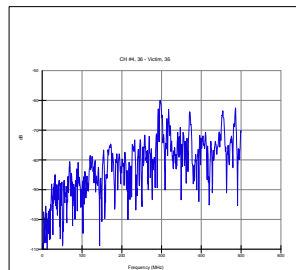
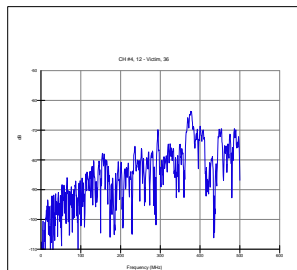
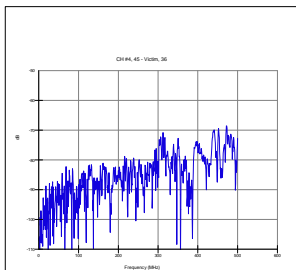
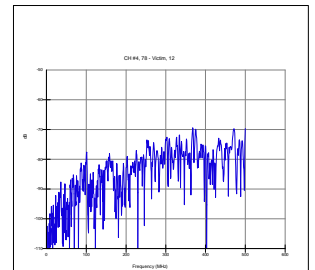
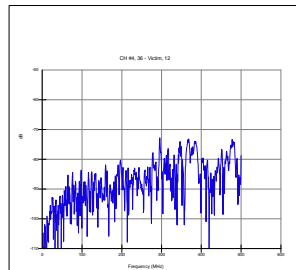
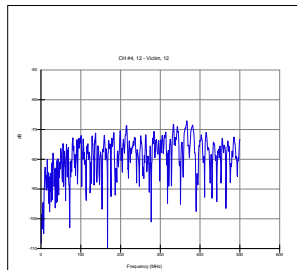
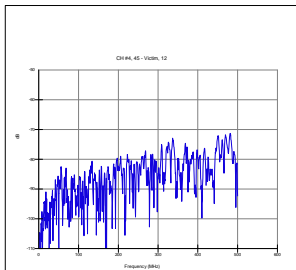
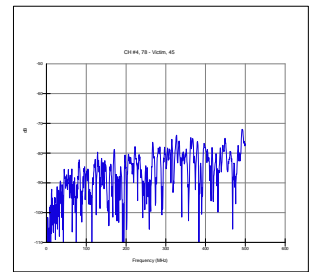
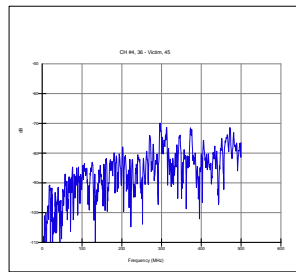
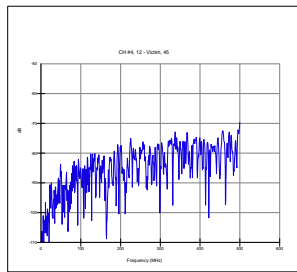
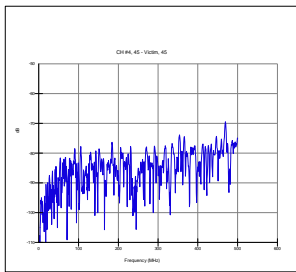
Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





ANEXT - Far End

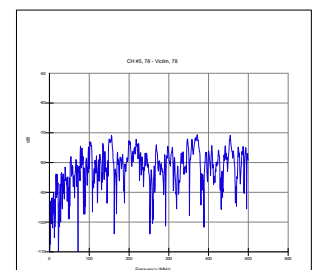
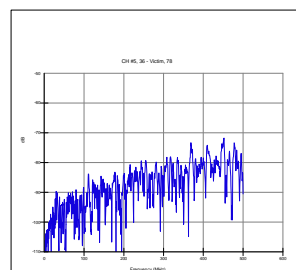
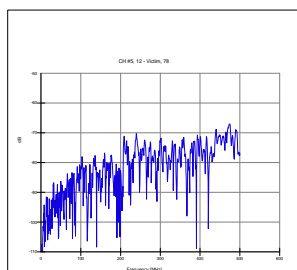
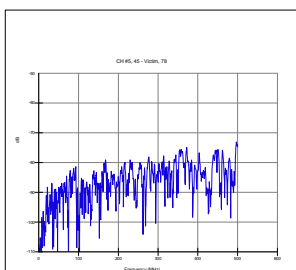
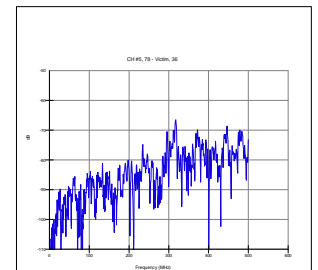
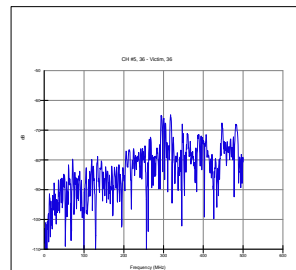
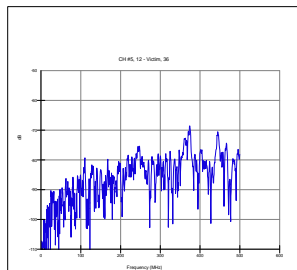
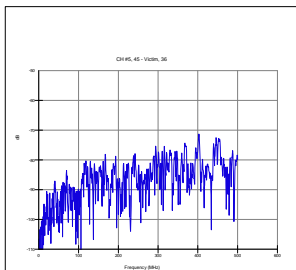
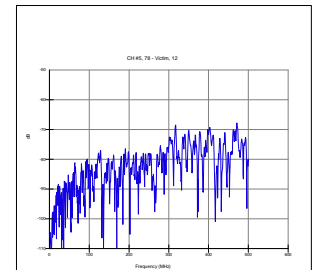
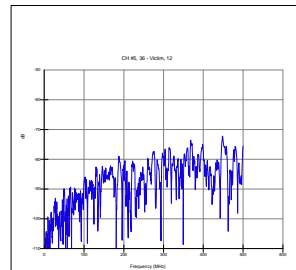
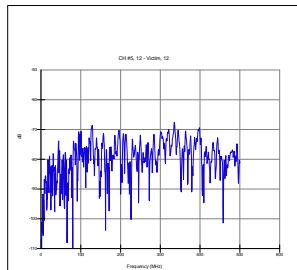
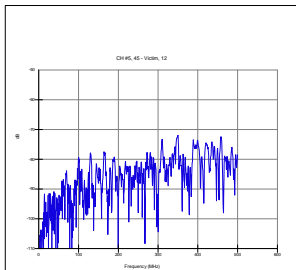
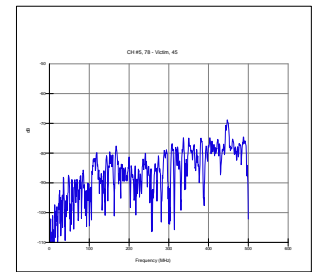
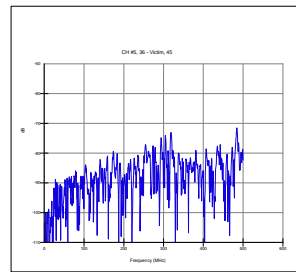
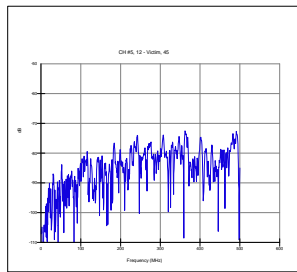
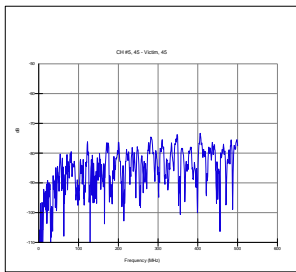
Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





ANEXT - Far End

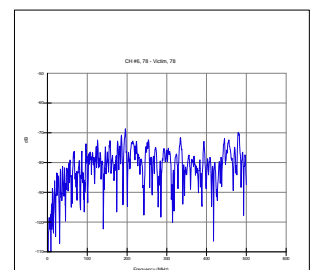
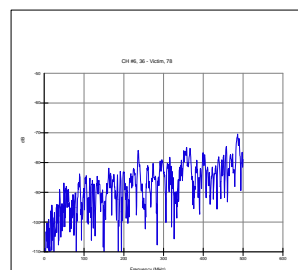
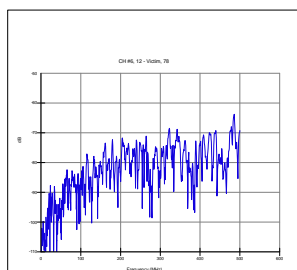
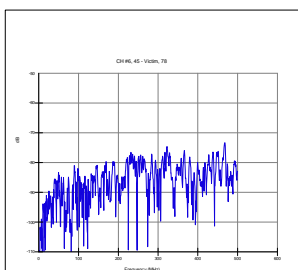
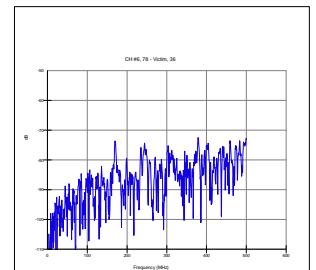
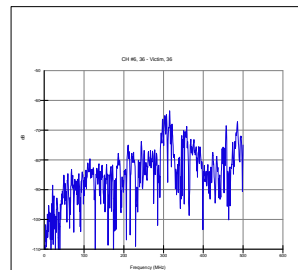
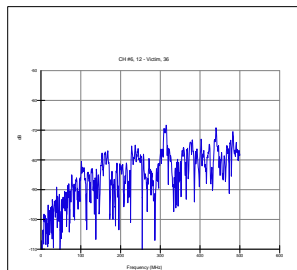
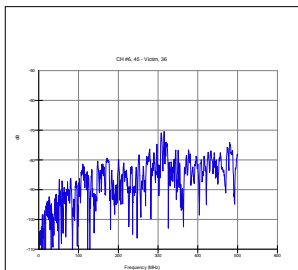
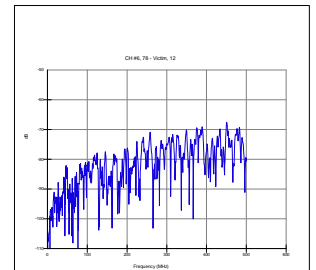
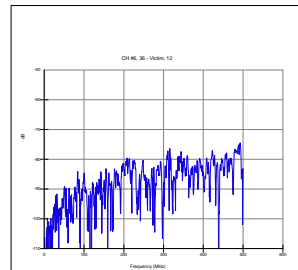
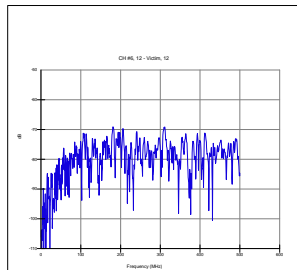
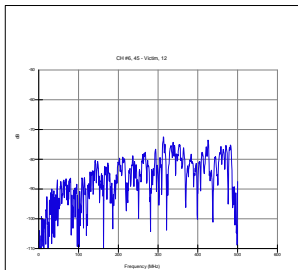
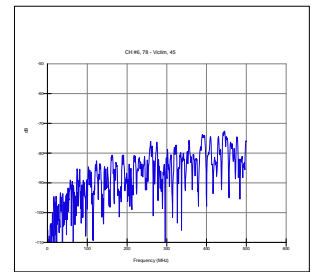
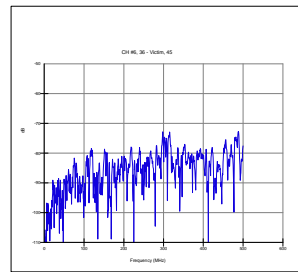
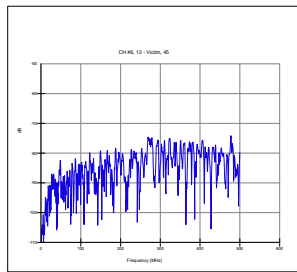
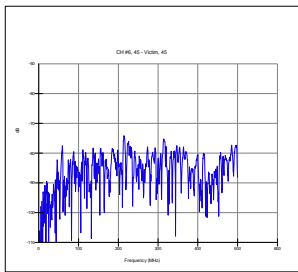
Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





ANEXT - Far End

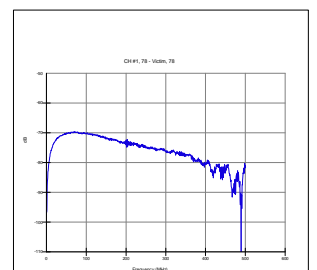
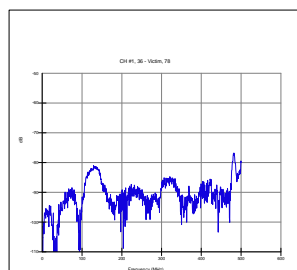
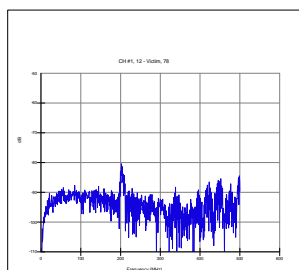
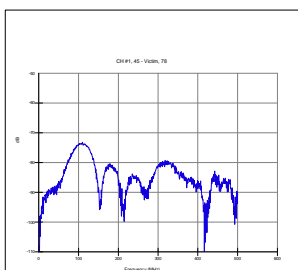
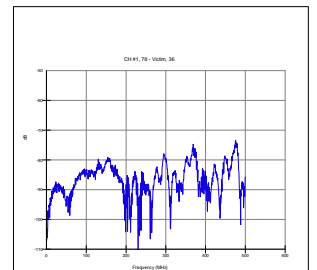
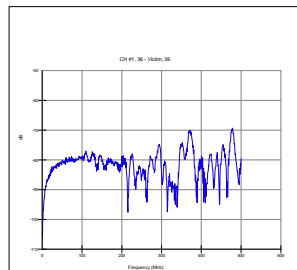
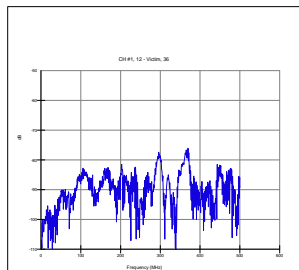
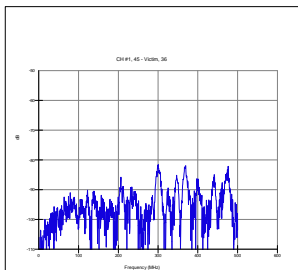
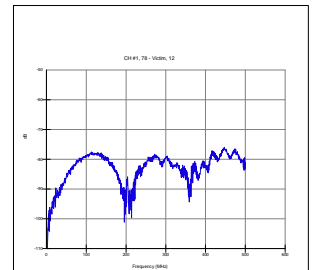
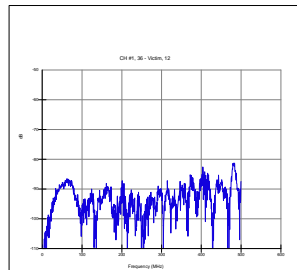
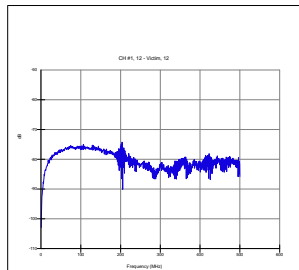
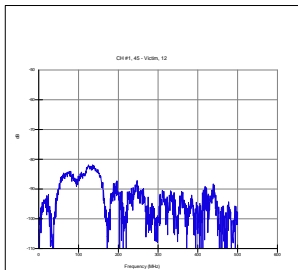
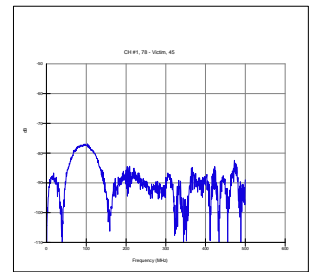
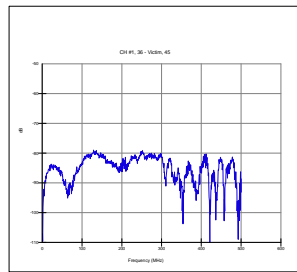
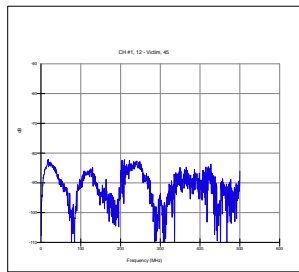
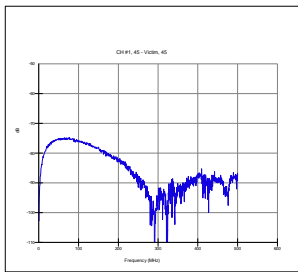
Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





AFEXT - Near End

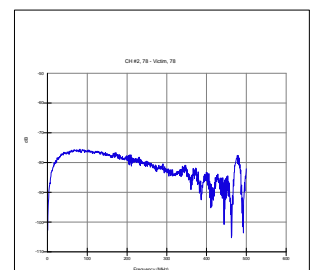
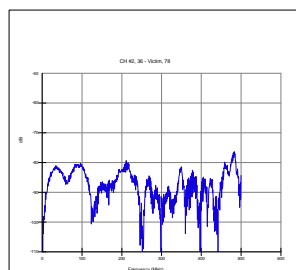
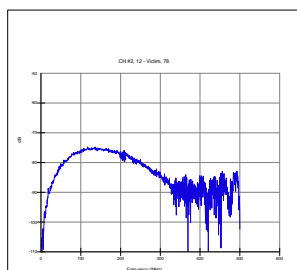
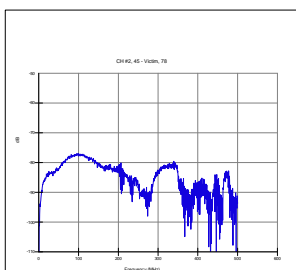
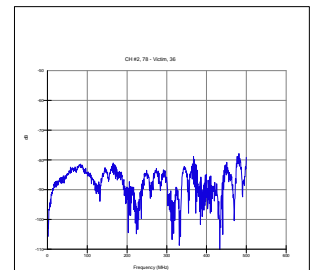
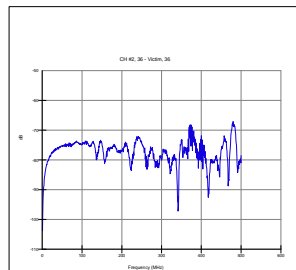
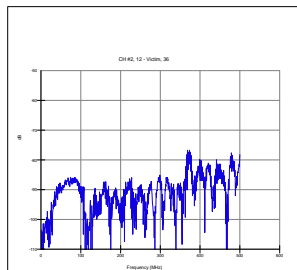
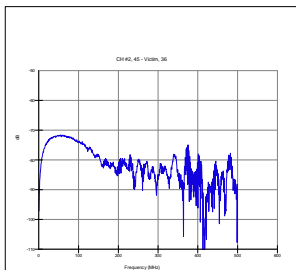
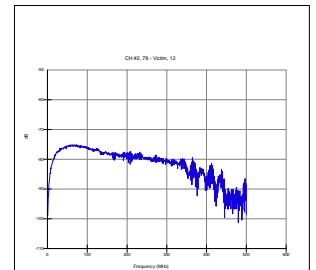
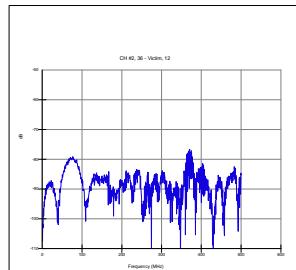
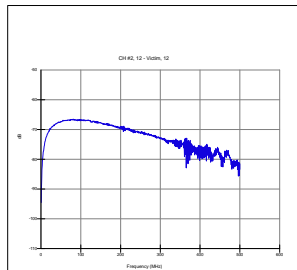
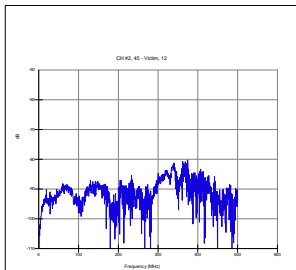
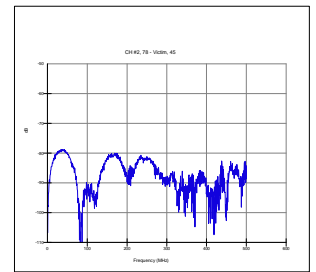
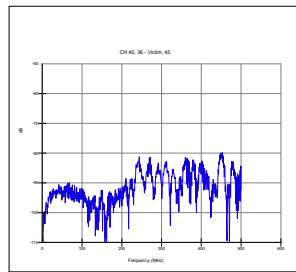
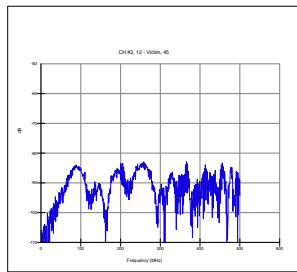
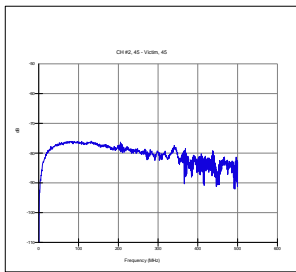
Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





AFEXT - Near End

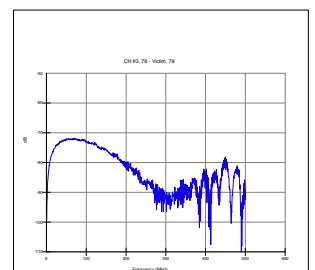
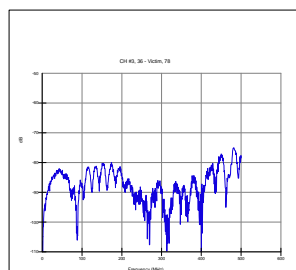
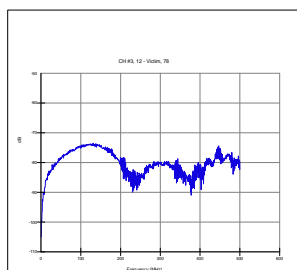
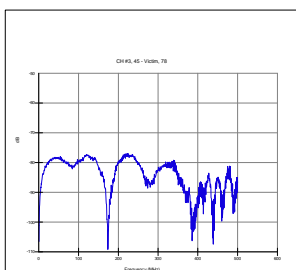
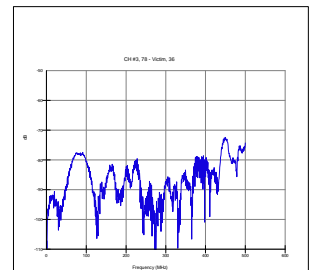
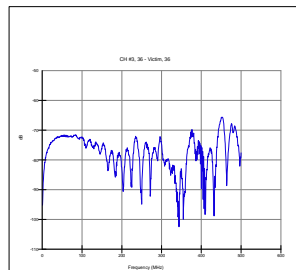
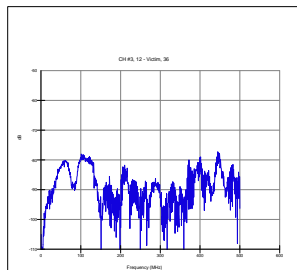
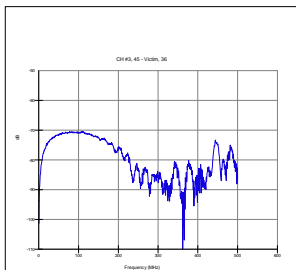
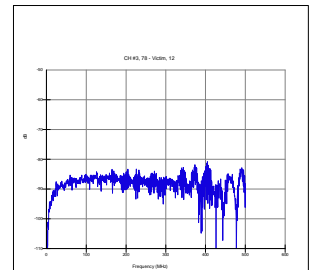
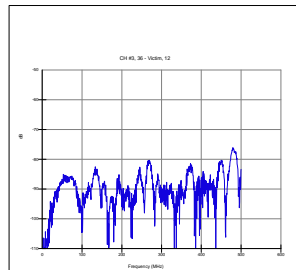
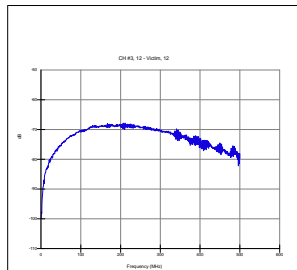
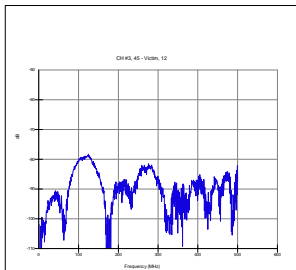
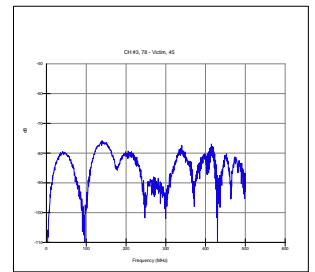
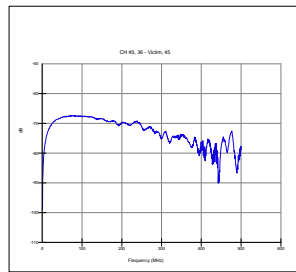
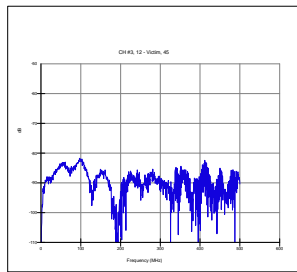
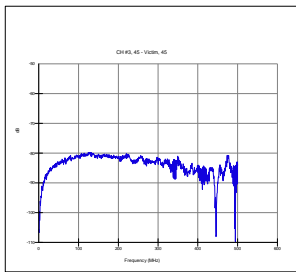
Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





AFEXT - Near End

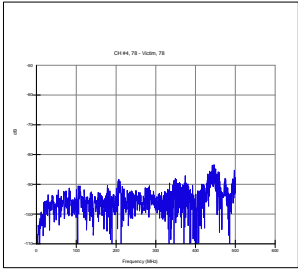
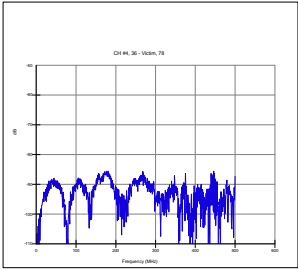
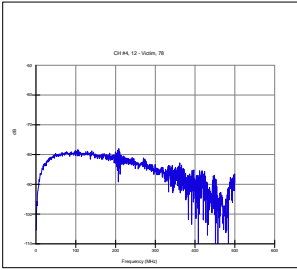
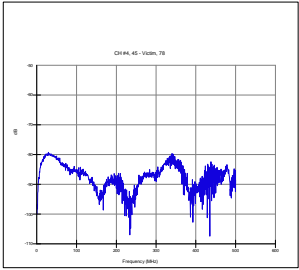
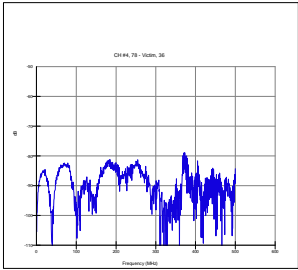
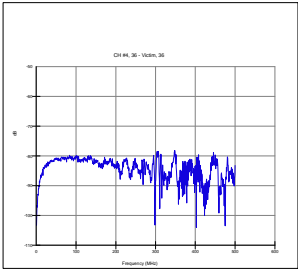
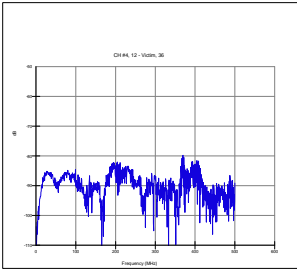
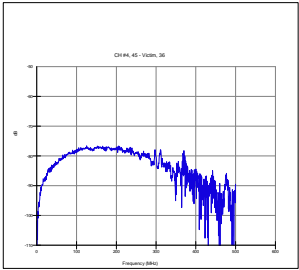
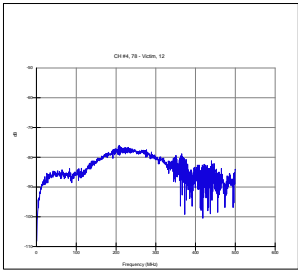
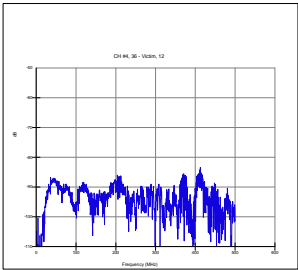
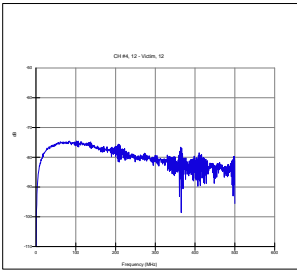
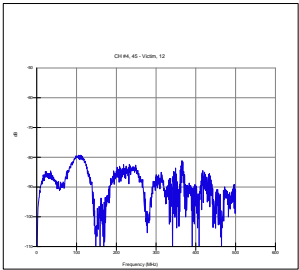
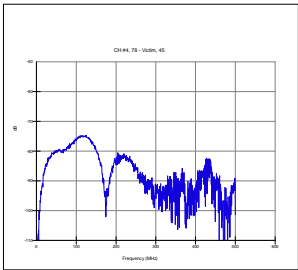
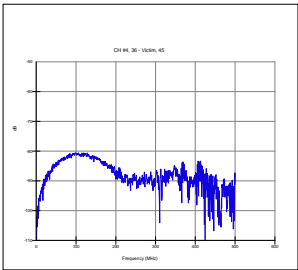
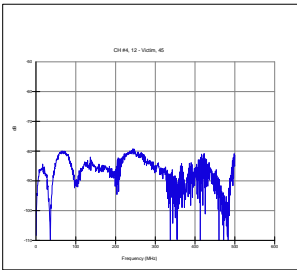
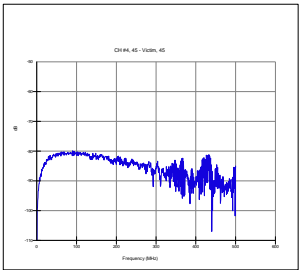
Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





AFEXT - Near End

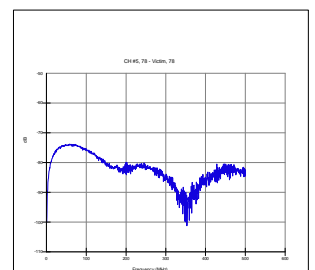
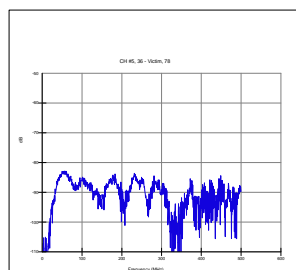
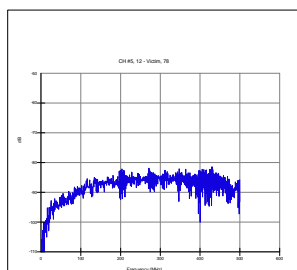
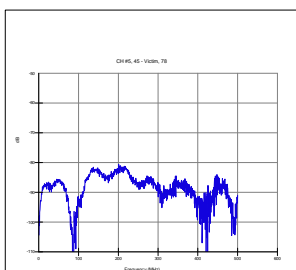
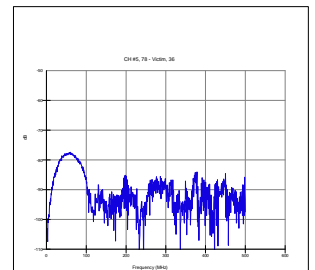
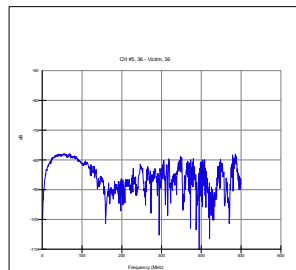
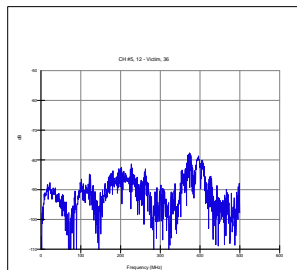
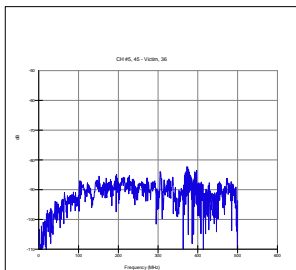
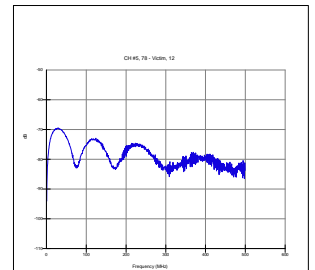
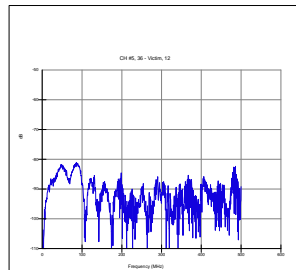
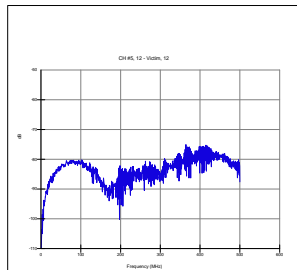
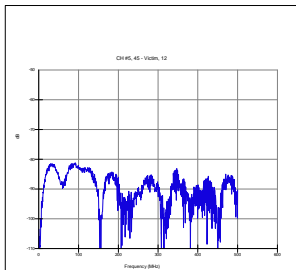
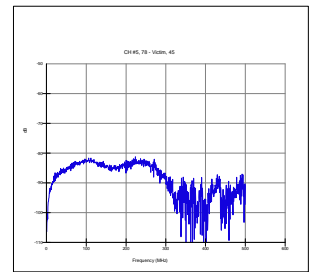
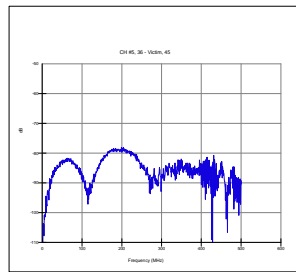
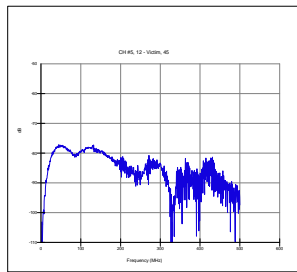
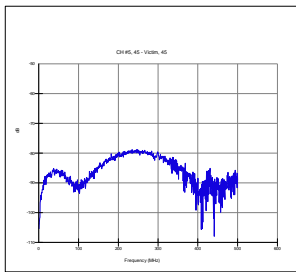
Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





AFEXT - Near End

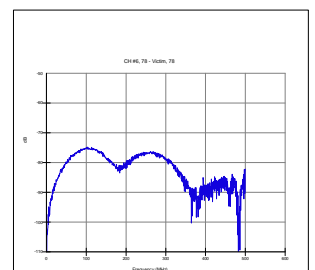
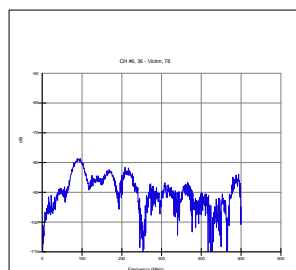
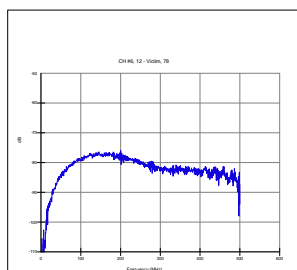
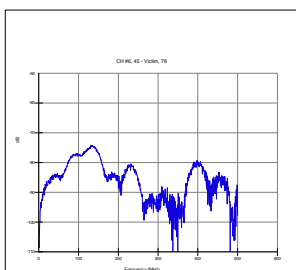
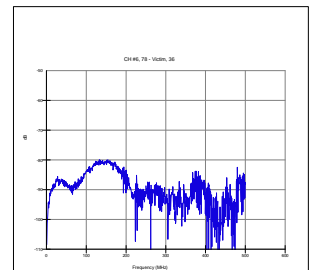
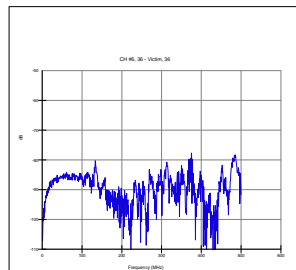
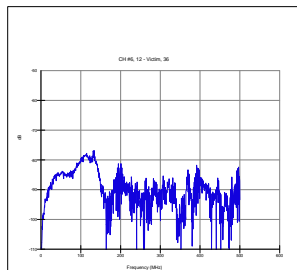
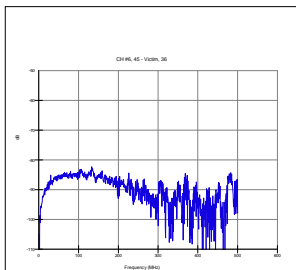
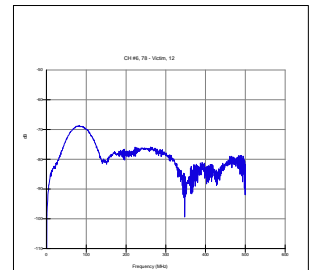
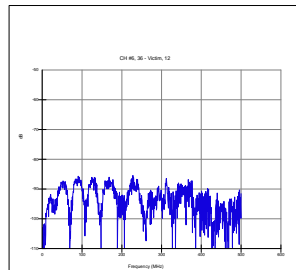
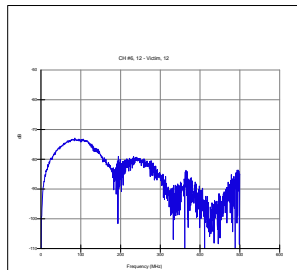
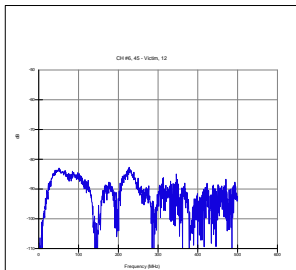
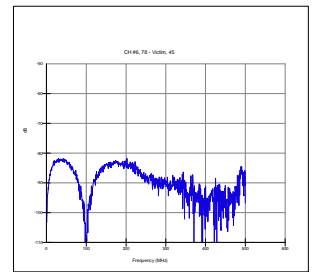
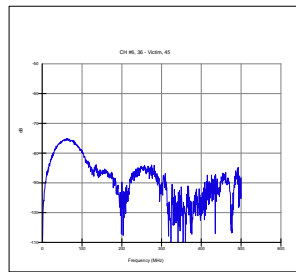
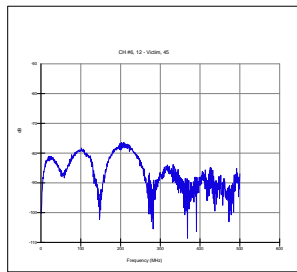
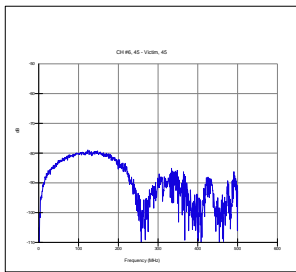
Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





AFEXT - Near End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies

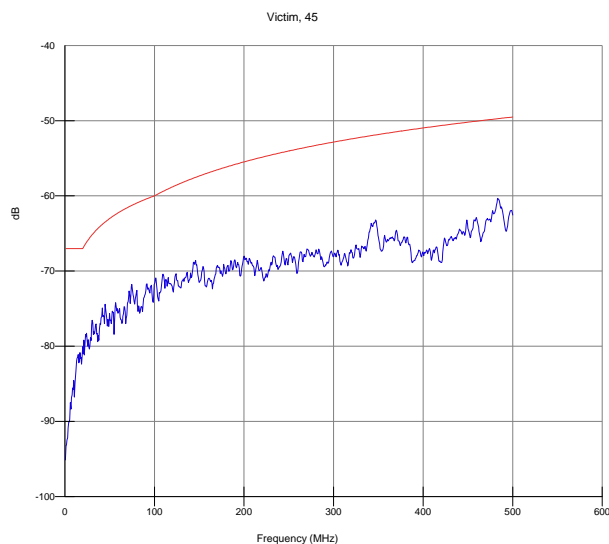




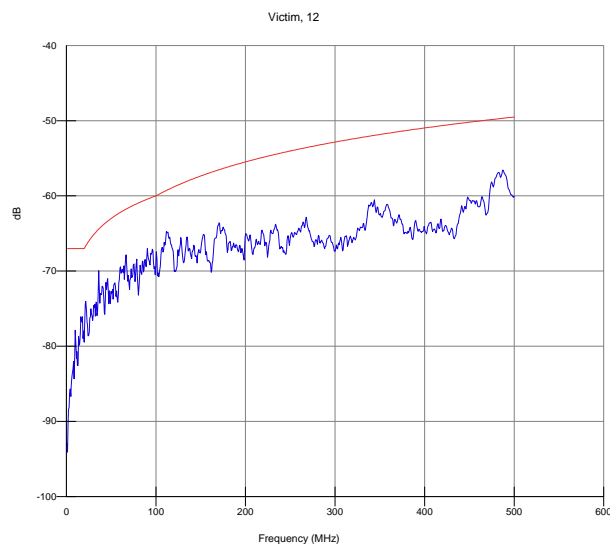
PSANEXT - Near End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies

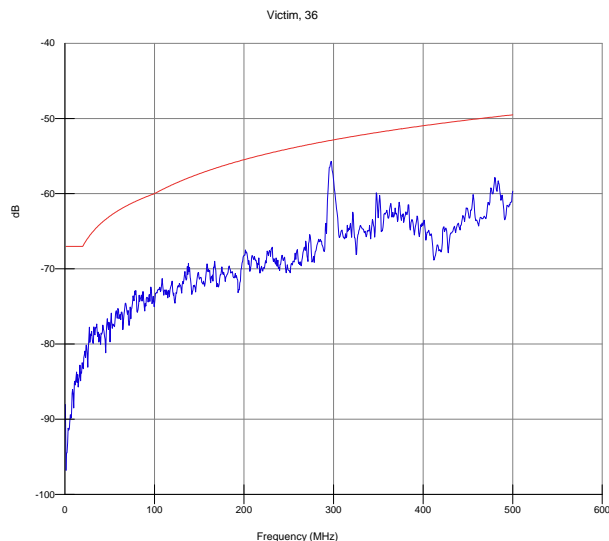
Limit Margin : 10.521 dB @ 74.801 MHz



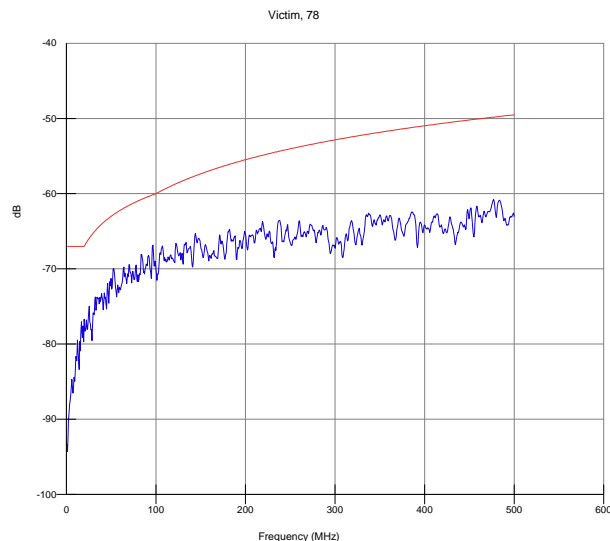
Limit Margin : 5.436 dB @ 111.639 MHz



Limit Margin : 2.811 dB @ 297.078 MHz



Limit Margin : 6.703 dB @ 96.654 MHz

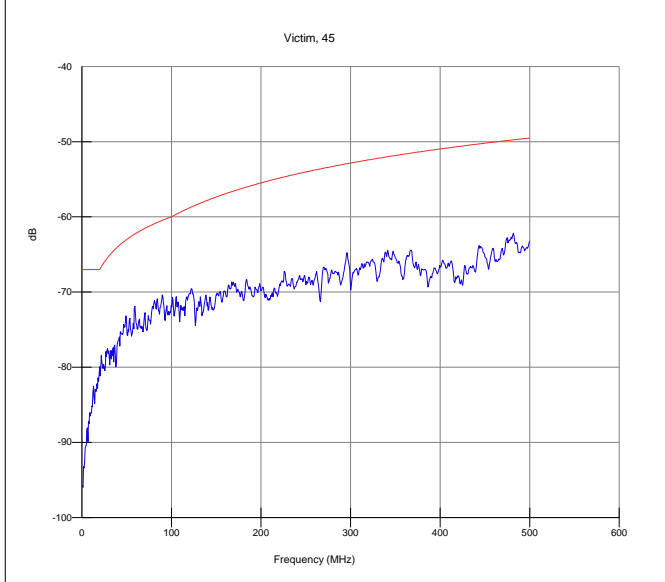




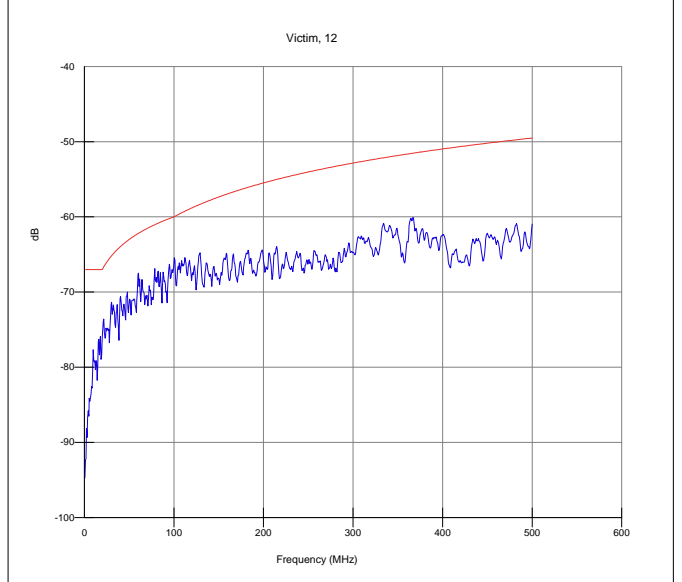
PSANEXT - Far End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies

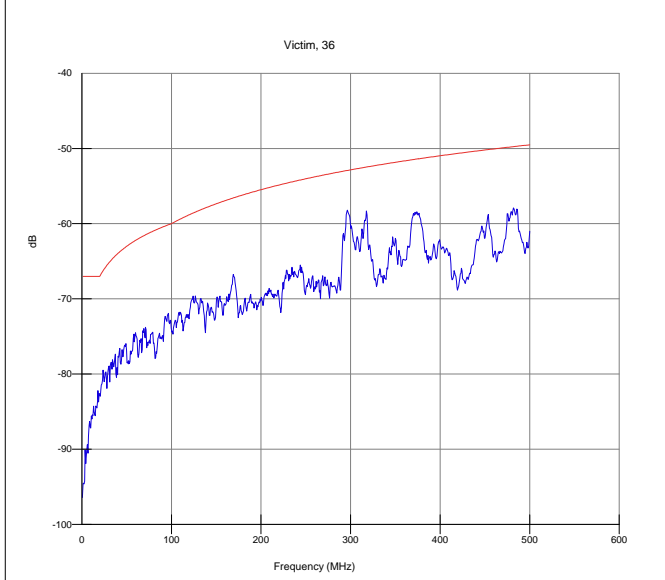
Limit Margin : 9.600 dB @ 59.191 MHz



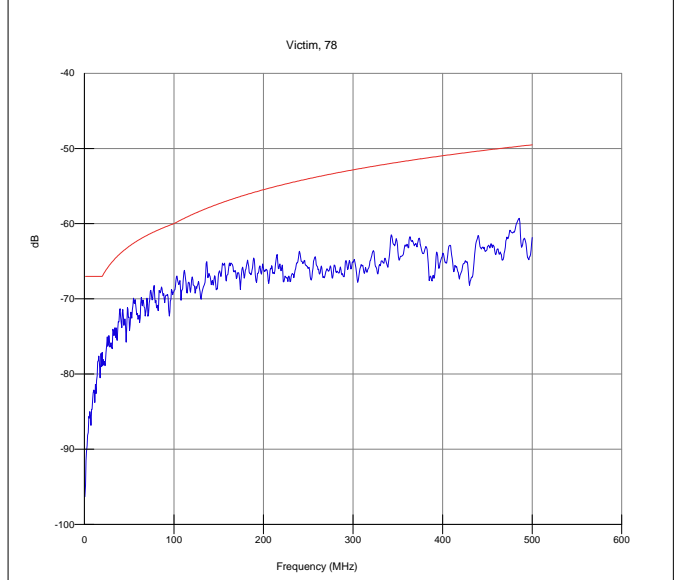
Limit Margin : 5.302 dB @ 60.440 MHz



Limit Margin : 5.282 dB @ 296.454 MHz



Limit Margin : 6.923 dB @ 111.639 MHz

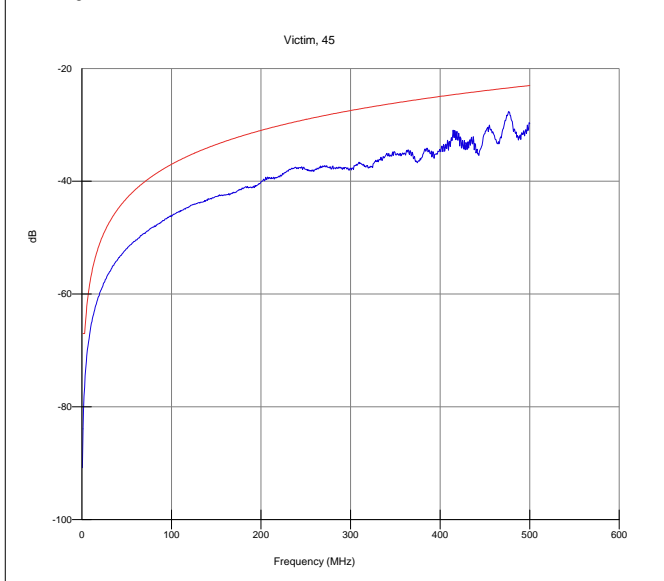




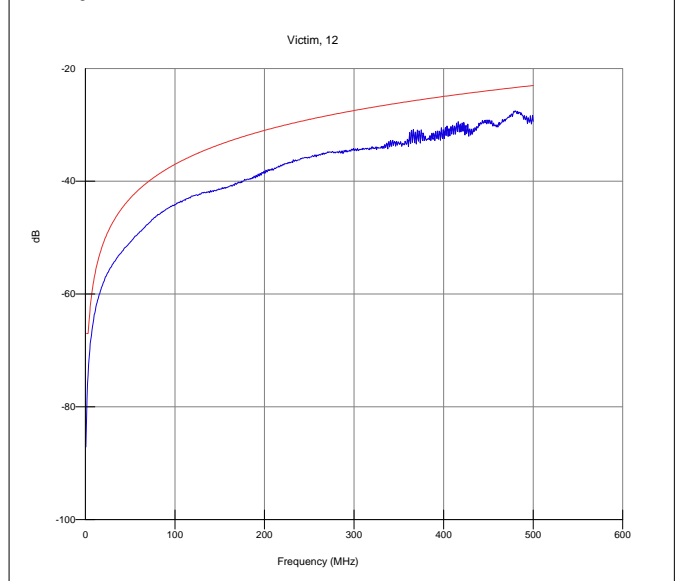
PSAACRF (PSAELFEXT) - Near End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies

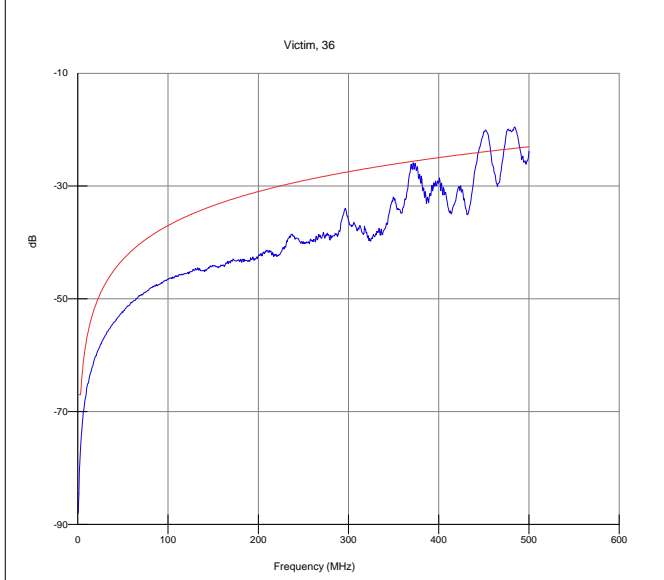
Limit Margin : 8.067 dB @ 234.641 MHz



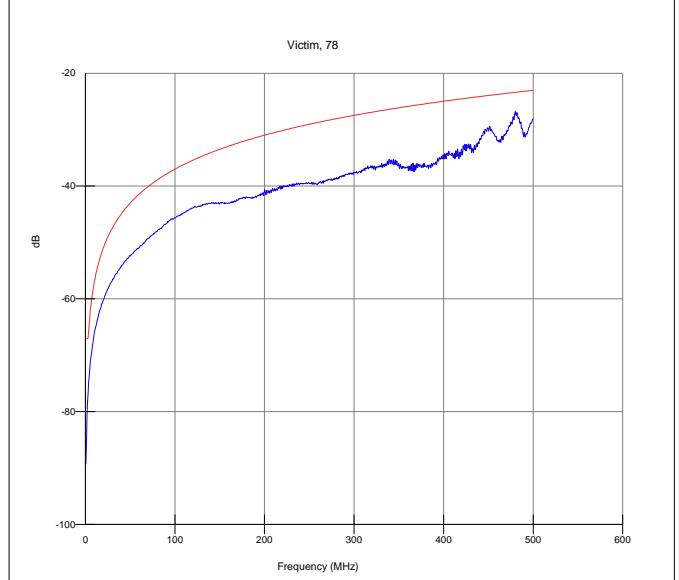
Limit Margin : 6.424 dB @ 270.230 MHz



Limit Margin : 0.357 dB @ 372.003 MHz



Limit Margin : 8.363 dB @ 122.253 MHz

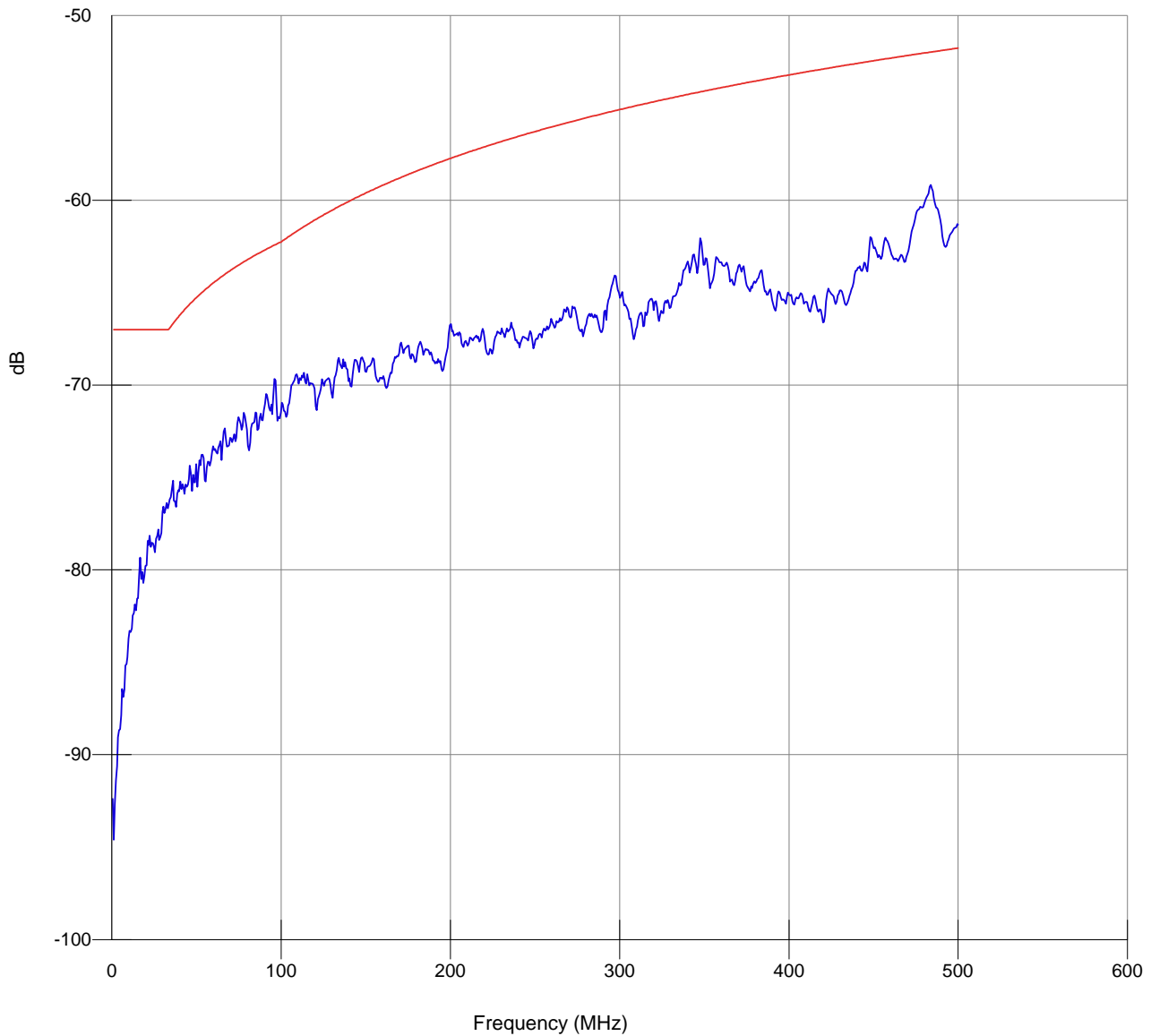




Average PSANEXT - Near End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies

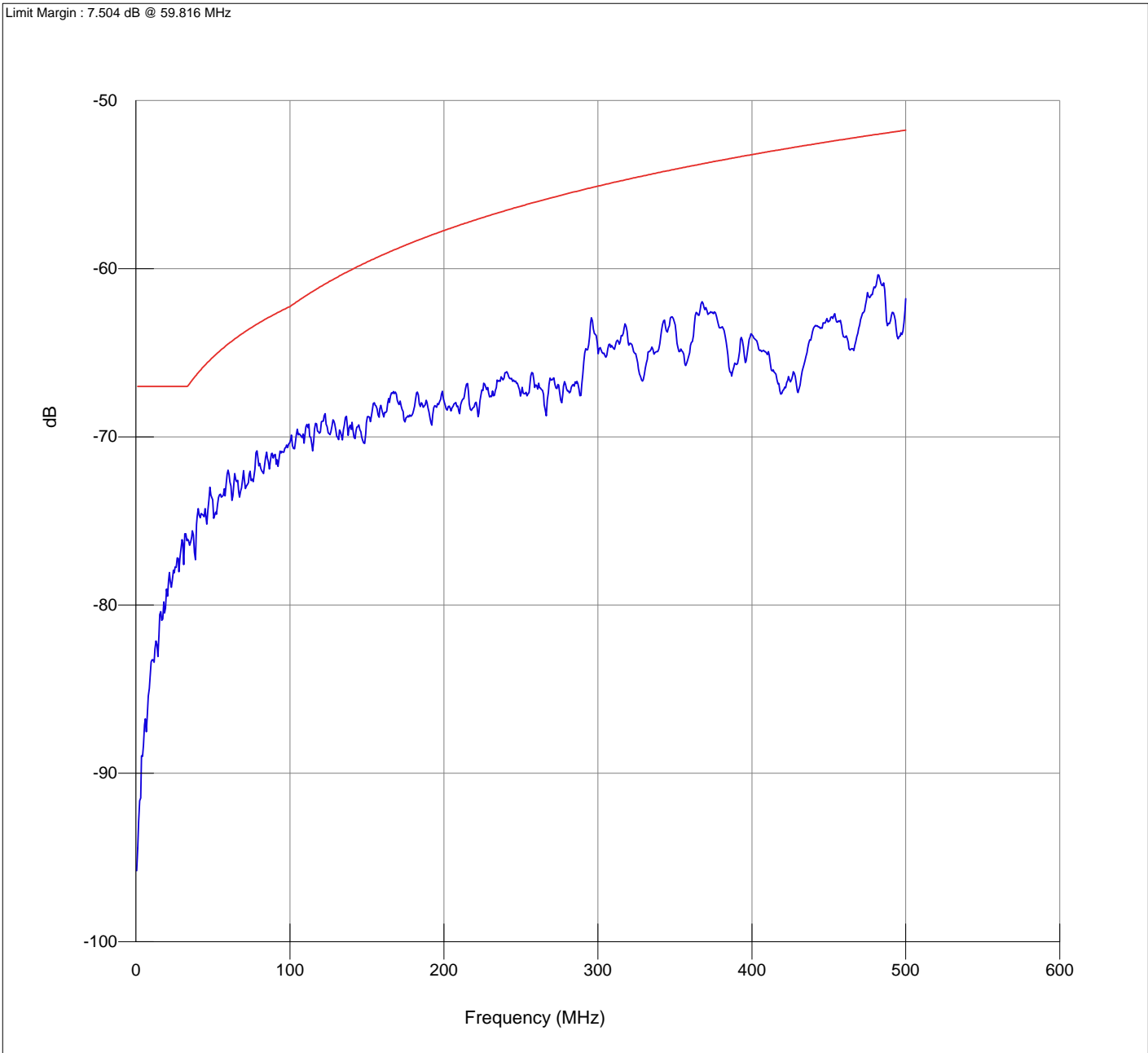
Limit Margin : 7.190 dB @ 483.766 MHz





Average PSANEXT - Far End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





Average PSAACRF (PSAELFEXT) - Near End

Client	Schneider Electric India	Report No	102750607CRT-004a
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	ACTTG46AULS3RBU	Length(m)	98.
Test Started	11/1/2016 2:48:42 PM	Temperature	22.1 °C
Description	4 Conn Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies

