

## Cable ID: 48

Date / Time: 02/09/2021 11:00:05am  
**Headroom: 8.4 dB (NEXT 36-45)**  
**Test Limit: TIA Cat 6 Channel**  
 Cable Type: Cat 6 U/UTP

Operator: JOSEM  
 Software Version: 2.7800  
 Limits Version: 1.9500  
 NVP: 69.0%

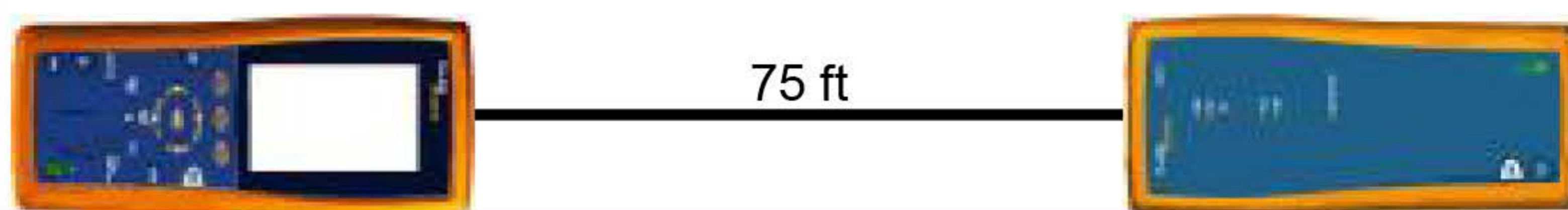
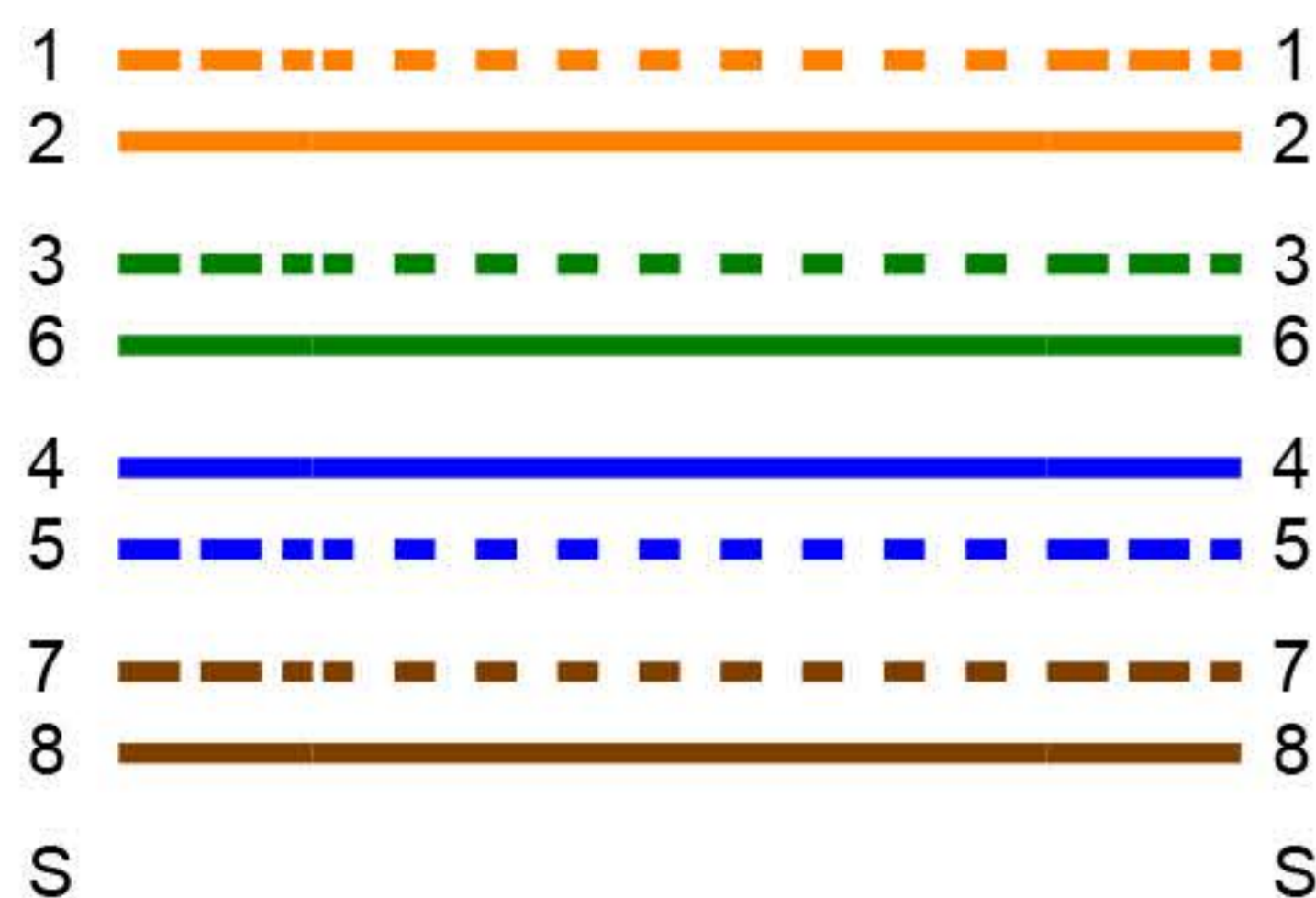
## Test Summary: PASS

Model: DTX-1800  
 Main S/N: 1364027  
 Remote S/N: 1364028  
 Main Adapter: DTX-PLA002  
 Remote Adapter: DTX-PLA002



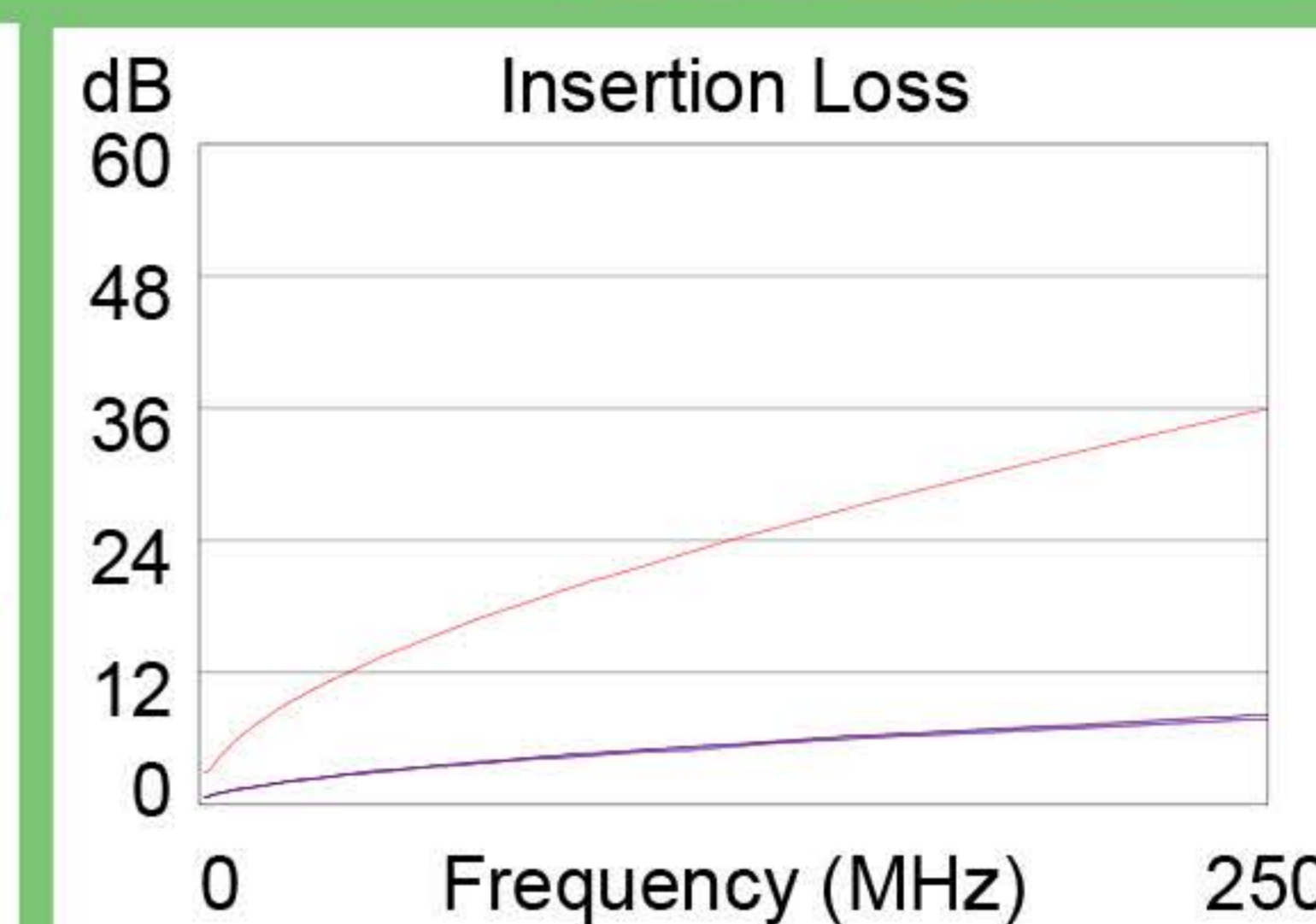
### Wire Map (T568B)

**PASS**

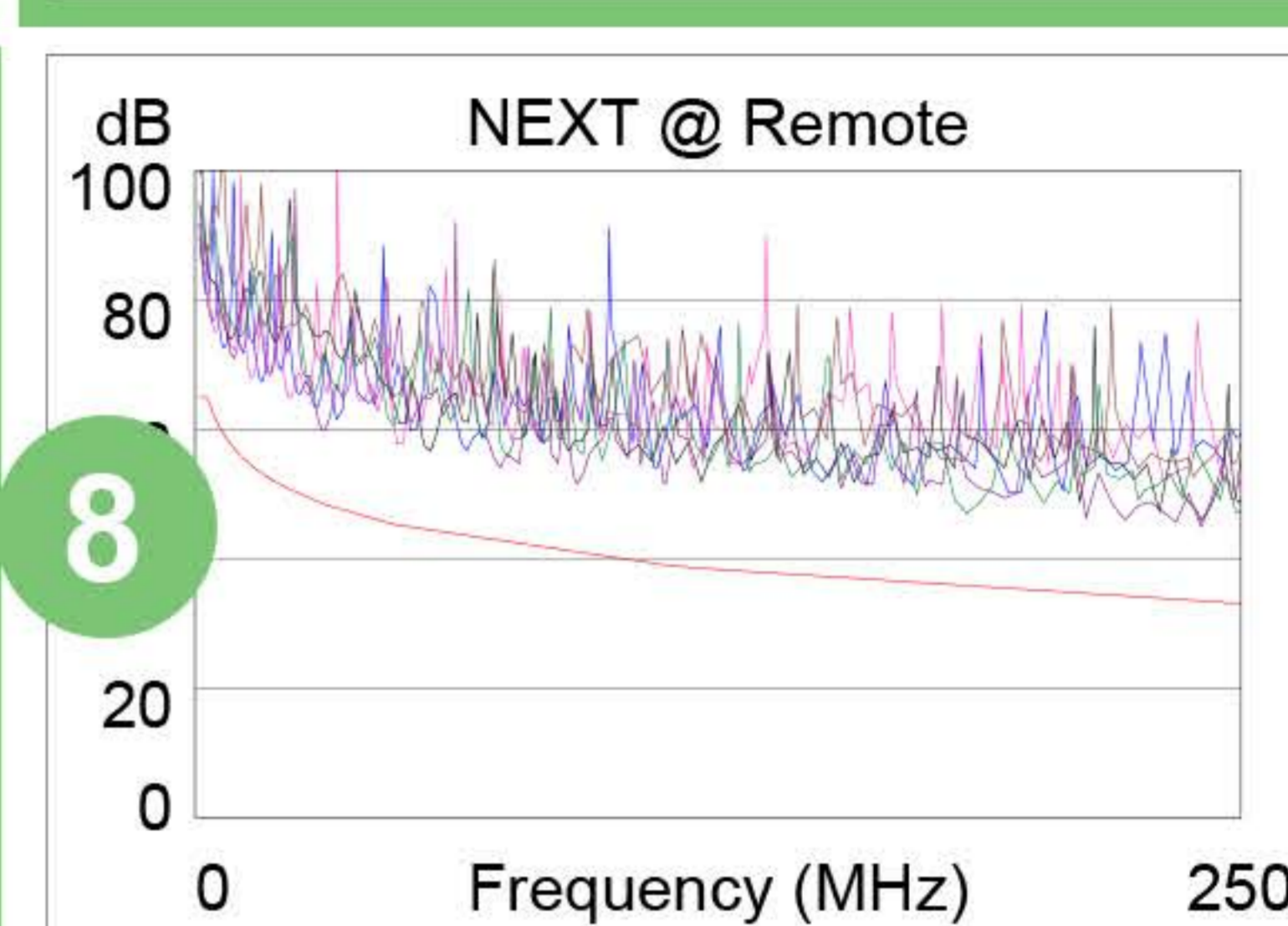
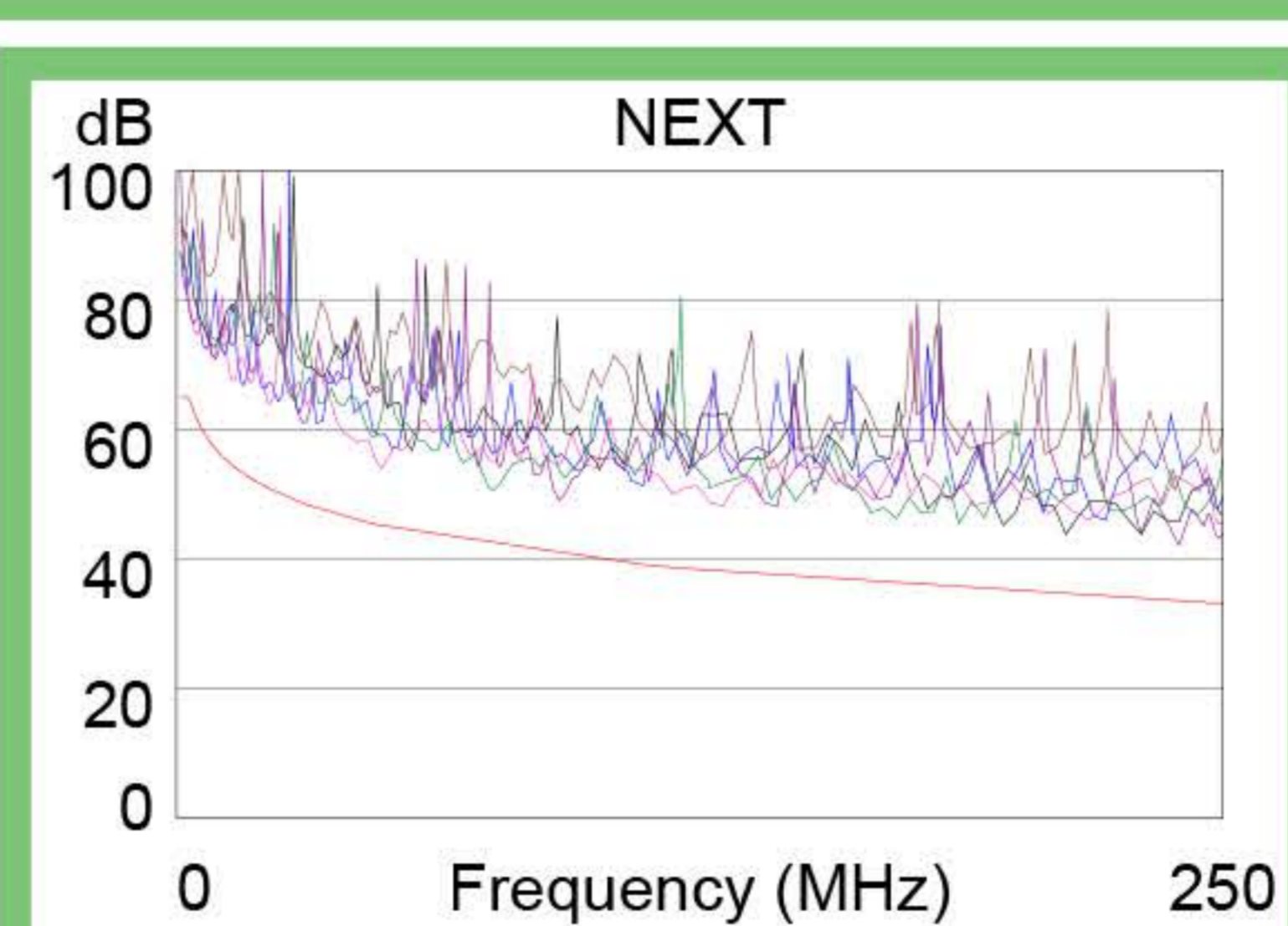


Length (ft), Limit 328	[Pair 78]	75
Prop. Delay (ns), Limit 555		116
Delay Skew (ns), Limit 50		6
Resistance (ohms)	[Pair 45]	3.9

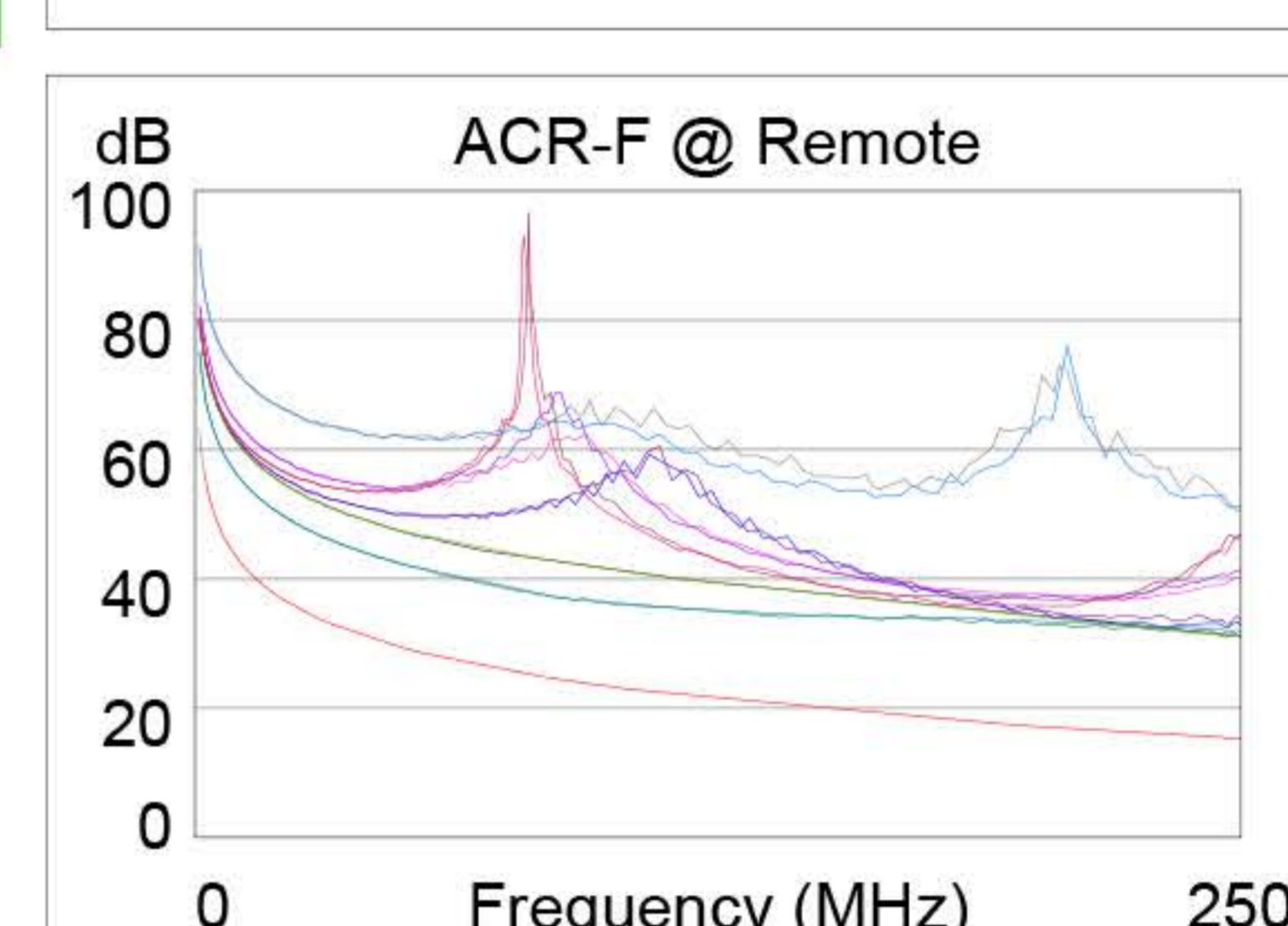
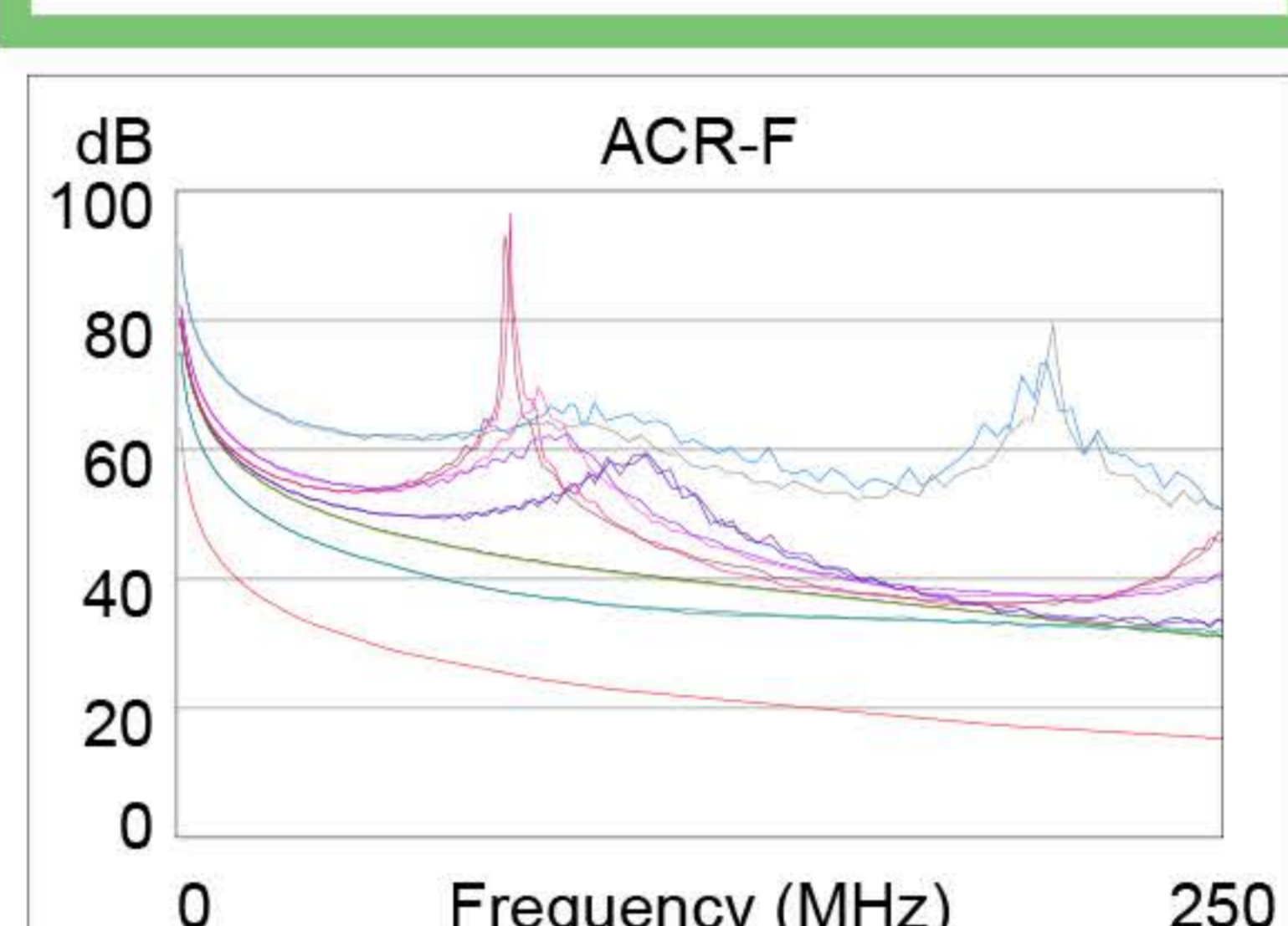
Insertion Loss Margin (dB)	[Pair 36]	27.7
Frequency (MHz)	[Pair 36]	250.0
Limit (dB)	[Pair 36]	35.9



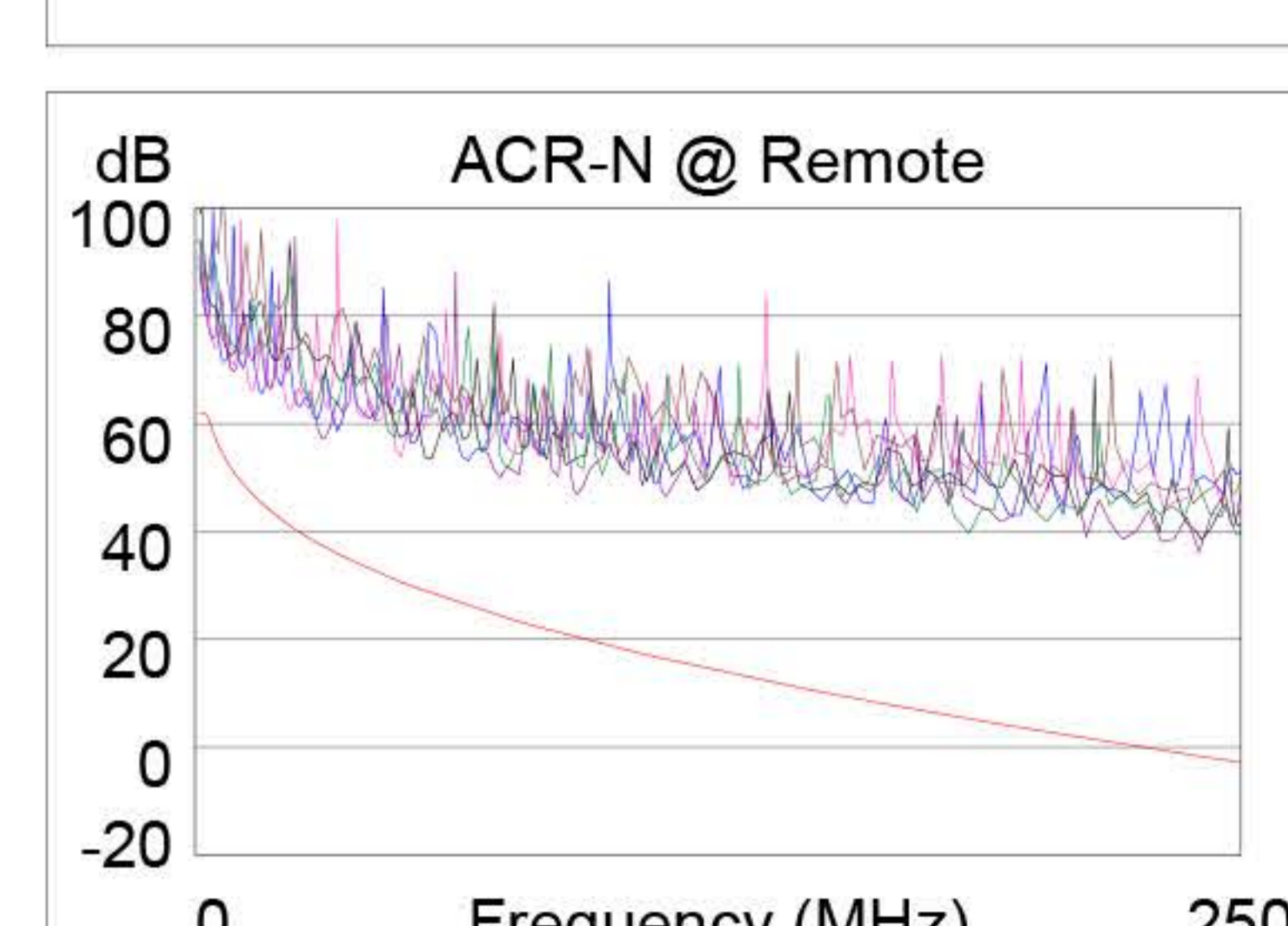
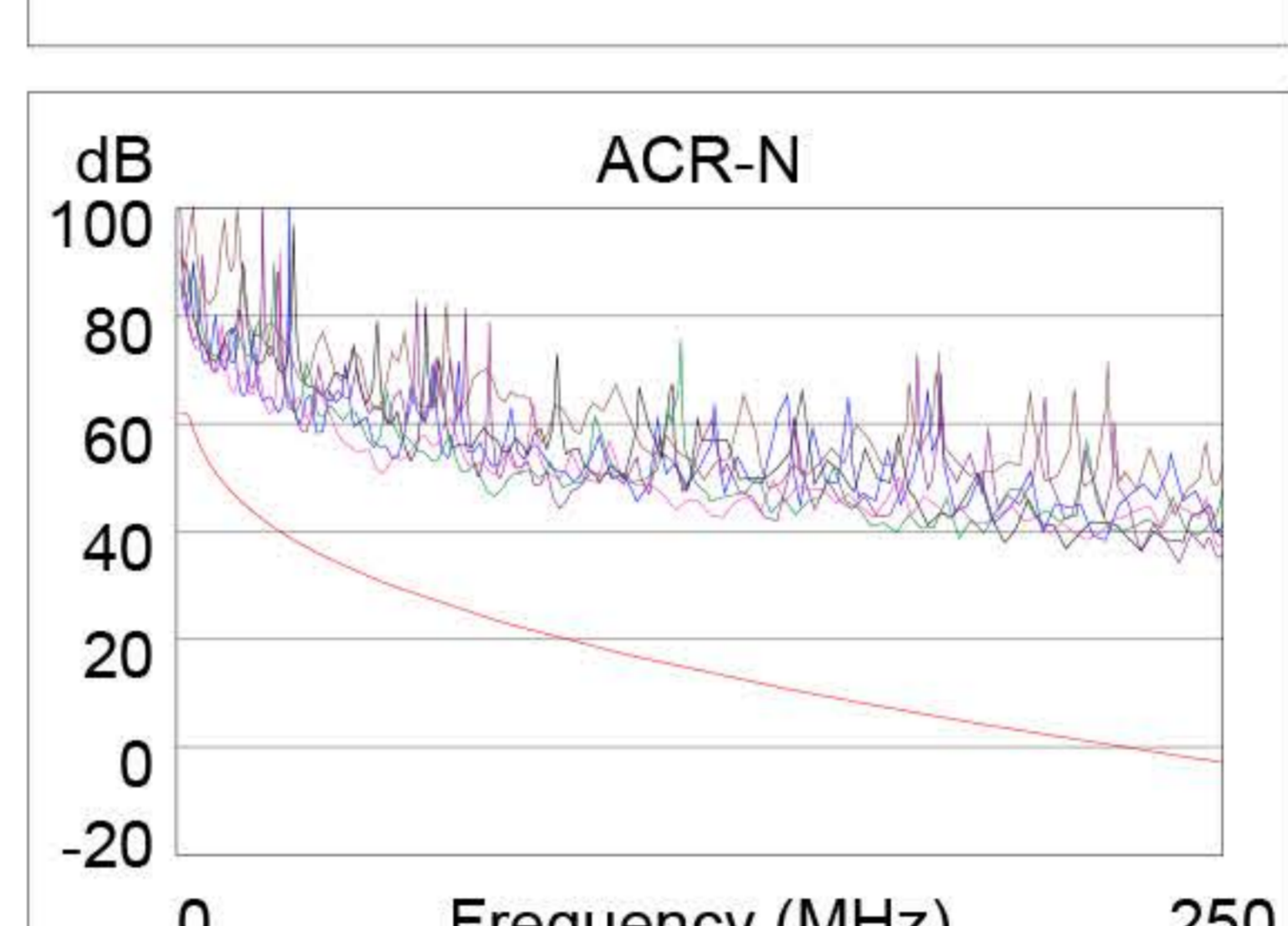
	Worst Case Margin		Worst Case Value	
<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	36-45	36-78	36-45	36-45
<b>NEXT (dB)</b>	8.4	10.5	8.5	10.6
Freq. (MHz)	91.3	186.0	240.0	239.5
Limit (dB)	40.6	35.3	33.4	33.4
Worst Pair	36	36	36	45
<b>PS NEXT (dB)</b>	9.3	11.8	10.6	12.9
Freq. (MHz)	91.8	185.5	240.0	239.5
Limit (dB)	37.7	32.4	30.5	30.5



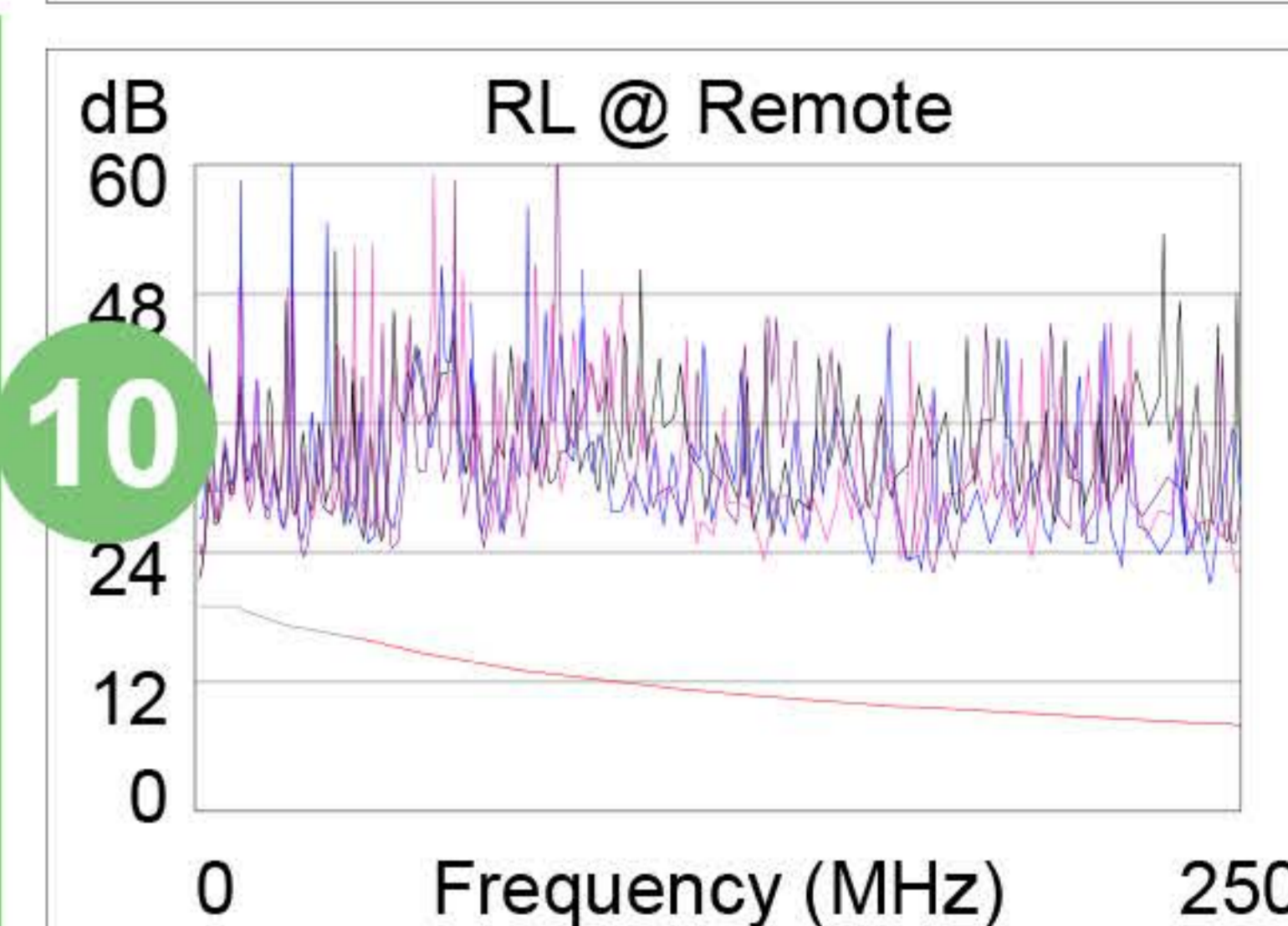
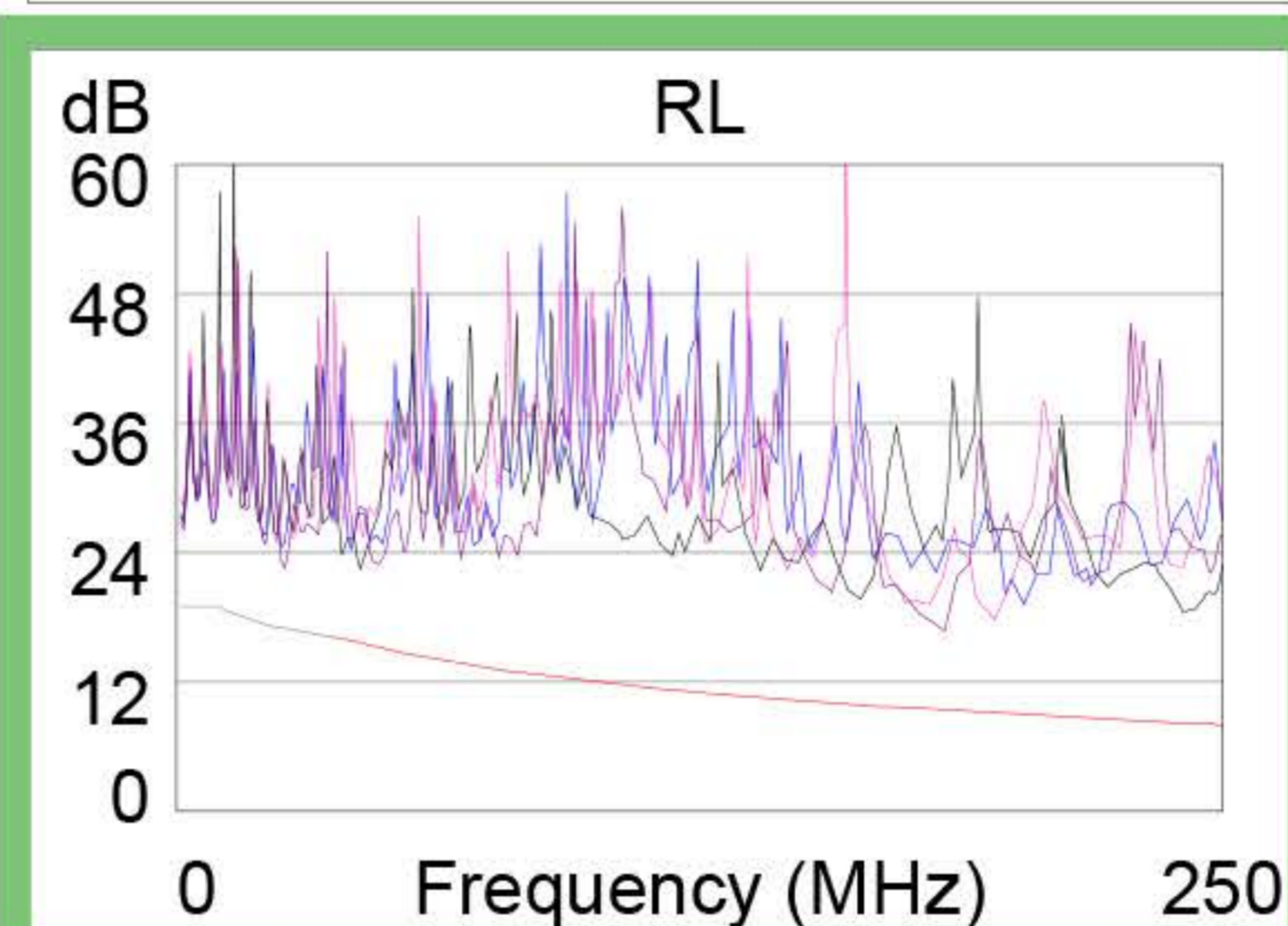
<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	45-36	36-45	45-36	36-45
<b>ACR-F (dB)</b>	12.2	12.2	15.5	15.6
Freq. (MHz)	2.1	2.1	250.0	250.0
Limit (dB)	56.7	56.7	15.3	15.3
Worst Pair	36	36	12	12
<b>PS ACR-F (dB)</b>	12.6	12.7	16.2	16.2
Freq. (MHz)	1.0	1.0	246.5	246.5
Limit (dB)	60.3	60.3	12.4	12.4



<b>N/A</b>	MAIN	SR	MAIN	SR
Worst Pair	12-45	12-45	36-45	36-45
<b>ACR-N (dB)</b>	15.8	16.4	35.6	37.7
Freq. (MHz)	4.1	4.3	240.0	239.5
Limit (dB)	58.7	58.5	-1.7	-1.6
Worst Pair	45	45	45	36
<b>PS ACR-N (dB)</b>	15.6	16.2	38.7	40.1
Freq. (MHz)	3.9	4.3	249.0	239.5
Limit (dB)	56.8	56.0	-5.7	-4.6



<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	45	12	78	12
<b>RL (dB)</b>	6.9	8.4	7.3	13.0
Freq. (MHz)	44.0	41.8	183.5	242.5
Limit (dB)	15.6	15.8	9.4	8.2



Compliant Network Standards:  
 10BASE-T      100BASE-TX      100BASE-T4  
 1000BASE-T    ATM-25            ATM-51  
 ATM-155      100VG-AnyLan    TR-4  
 TR-16 Active    TR-16 Passive

- Test Limit:** Value determines the frequency range that Pass/Fail is calculated from.
- Wiremap:** Test used to confirm that each wire is hooked up correctly and shows physical errors like crossed pairs.
- Estimate of Length:** Estimate of cable length based on time it take for signal to travel through it.
- Critical Values:** Basic information for the cable under test.
- Insertion Loss Margin:** In this example, worst case margin for insertion loss was on Pair 36 at a frequency of 250MHz, with a margin of 27.7 dB below the limit of 35.9 dB.

- Insertion Loss Graph:** Red line shows TIA/ISO limits for insertion loss. The purple line should be below the red.
- Near-End Crosstalk (NEXT):** Shows the worst NEXT result in the cable. NEXT (dB) is the value of the worst pair compared with the testing limit.
- NEXT Graph:** Red line shows TIA/ISO limits for NEXT. Mixed color lines show the six pairs. Larger values are better.
- Return Loss (RL):** Identifies the worst pair for RL performance. RL (dB) is the value of the worst pair under the testing limit.
- RL Graph:** Red line shows TIA/ISO limits for RL. Mixed color lines show the six pairs. Larger values are better.