

# Advanced Troubleshooting: Part 1 - Activity

DNS

ATM Training

Technician  
10/15/12

## Overview

As discussed in the ViP Troubleshooting Series, one of the most important aspects of successful troubleshooting is understanding dBm and IRD. The first Advanced Troubleshooting video discusses dBm in greater detail to give technicians a better understanding behind the "why" of dBm.

This activity will help reinforce the material that was covered in the video. Allow five minutes for this activity; you will need a pen or pencil.

## Why It's Important

Strong dBm is essential to the proper function of a customer's system. By understanding how to interpret the Super Buddy readings and knowing how dBm loss is impacted through cables and components, technicians can more effectively troubleshoot technical issues.

## What I Need to Do

Using the chart below as reference, complete the dBm activities on this sheet.

Component	Average dBm Loss
Connector	0.5
Barrel	0.5
Ground block	0.5
Barreled wall plate	0.5
Cable (10 feet)	1.0
Diplexer	1.5

### Scenario 1:

One single-tuner ViP installation

Initial reading at the LNB: -30 dBm  
1 connector at LNB: - \_\_\_ dBm  
15 feet of cable to ground block: - \_\_\_ dBm  
Ground block and 2 connectors: - \_\_\_ dBm  
25 feet of cable to the wall plate: - \_\_\_ dBm  
2 wall plate connectors: - \_\_\_ dBm  
Wall plate (barrel): - \_\_\_ dBm

Approximate dBm reading behind the receiver: - \_\_\_ dBm



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## Scenario 2:

One dual-tuner ViP installation

Initial reading at the LNB:	-32 dBm
1 connector at the LNB:	- ___ dBm
20 feet of cable to ground block:	- ___ dBm
Ground block and 2 connectors:	- ___ dBm
50 feet of cable to the wall plate	- ___ dBm
Barrel along the 50 feet of cable	- ___ dBm
2 connectors at the barrel	- ___ dBm
2 wall plate connectors	- ___ dBm
Wall plate (barrel)	- ___ dBm
Diplexer	- ___ dBm
<b><u>Approximate dBm reading behind the receiver:</u></b>	<b>- ___ dBm</b>

