

## HP ODU BNC Voltage to RSSI Conversion

For HP ODUs, the voltage at the BNC should be used for alignment and will range from 0.1 Volts at -90 dBm input level to 4.5 Volts at -20 dBm input level. Use a voltmeter to monitor the voltage while adjusting the antenna. The following equation can be used to determine the RSL within 3 dB accuracy:

$$\text{RSL (dBm)} = 15.77 \times V_{\text{BNC}} - 91.58$$

Below is a table showing the voltage to RSL for convenience.

Voltage at BNC (Volts)	Receive Signal Level (dBm)
0.1	-90.0
0.25	-87.6
0.5	-83.7
0.75	-79.8
1	-75.8
1.25	-71.9
1.5	-67.9
1.75	-64.0
2	-60.0
2.25	-56.1
2.5	-52.2
2.75	-48.2
3	-44.3
3.25	-40.3
3.5	-36.4
3.75	-32.4
4	-28.5
4.25	-24.6
4.5	-20.6