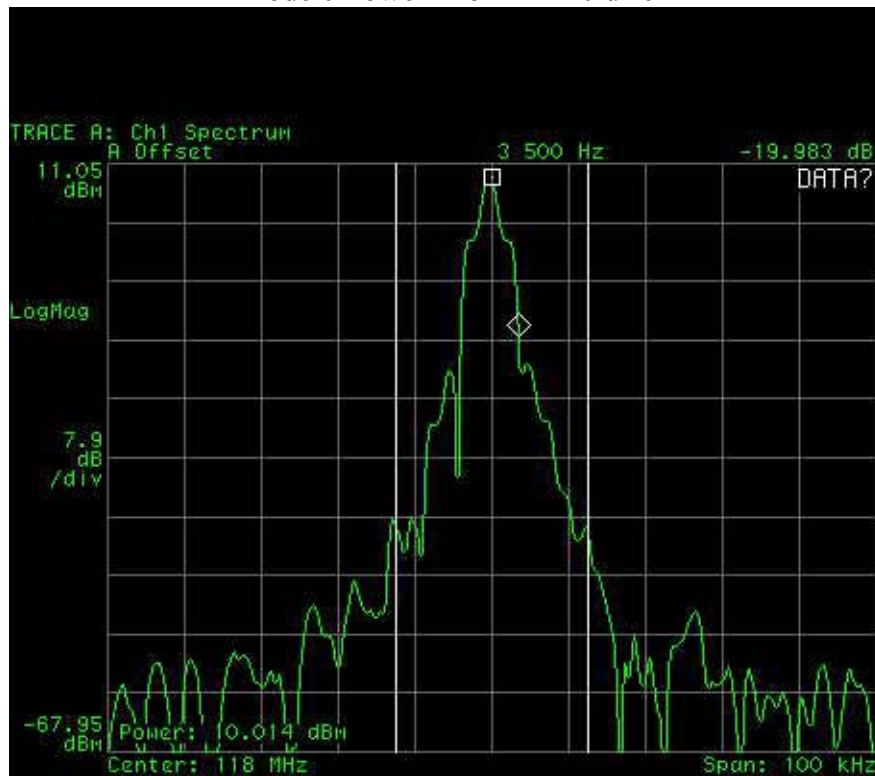


Occupied Bandwidth Test Data

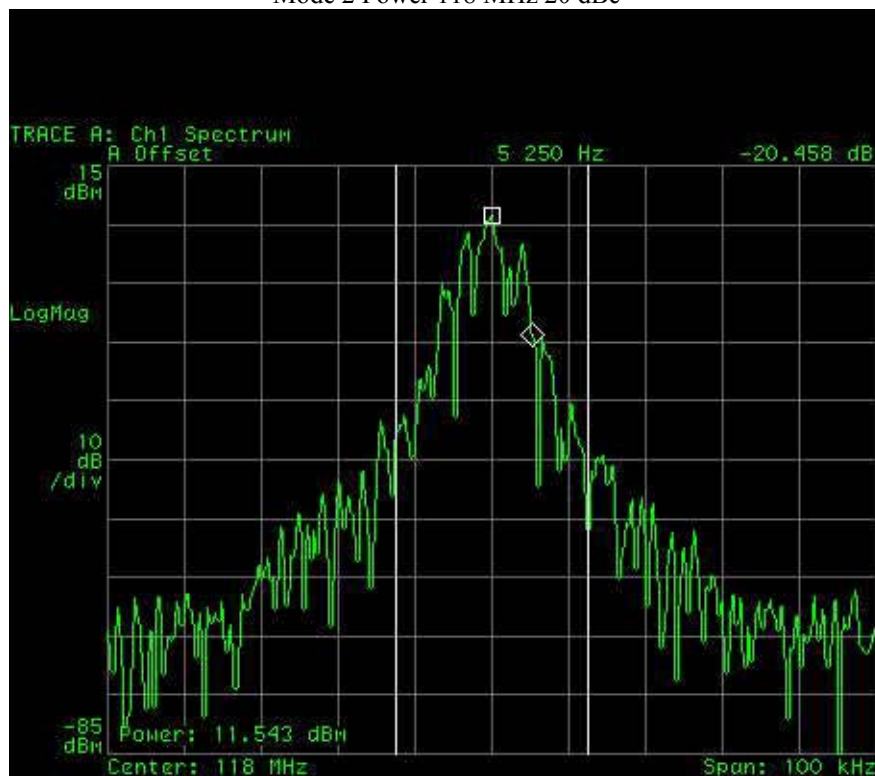
Mode	Frequency (in MHz)	Measured dBc	Bandwidth (In kHz)
0	118	-19.983	7
2	118	-20.458	10.5
0	131.55	-25.099	7.5
2	131.55	-20.703	12.5
0	136.95	-21.963	5
2	136.975	-23.027	12

Summary: The maximum occupied bandwidth is 12.5 kHz.

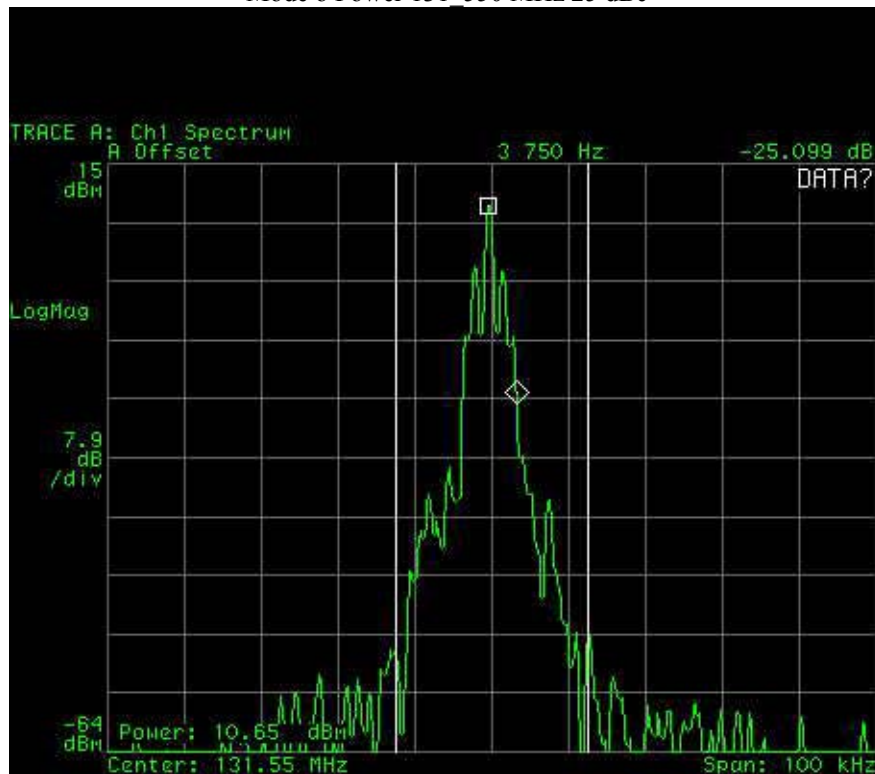
Mode 0 Power 118 MHz 20 dBc



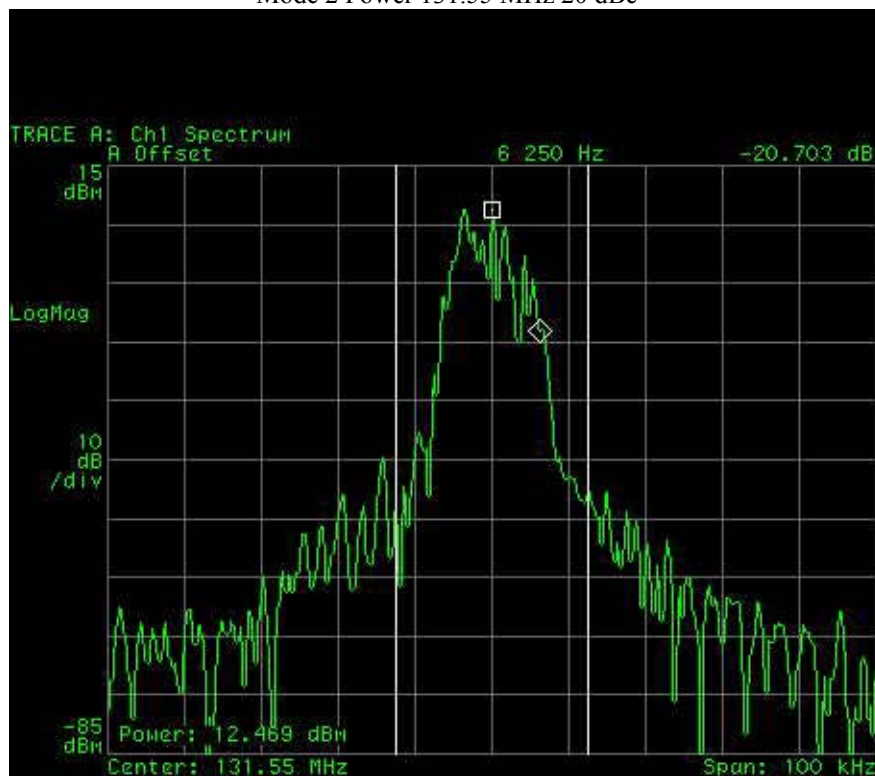
Mode 2 Power 118 MHz 20 dBc



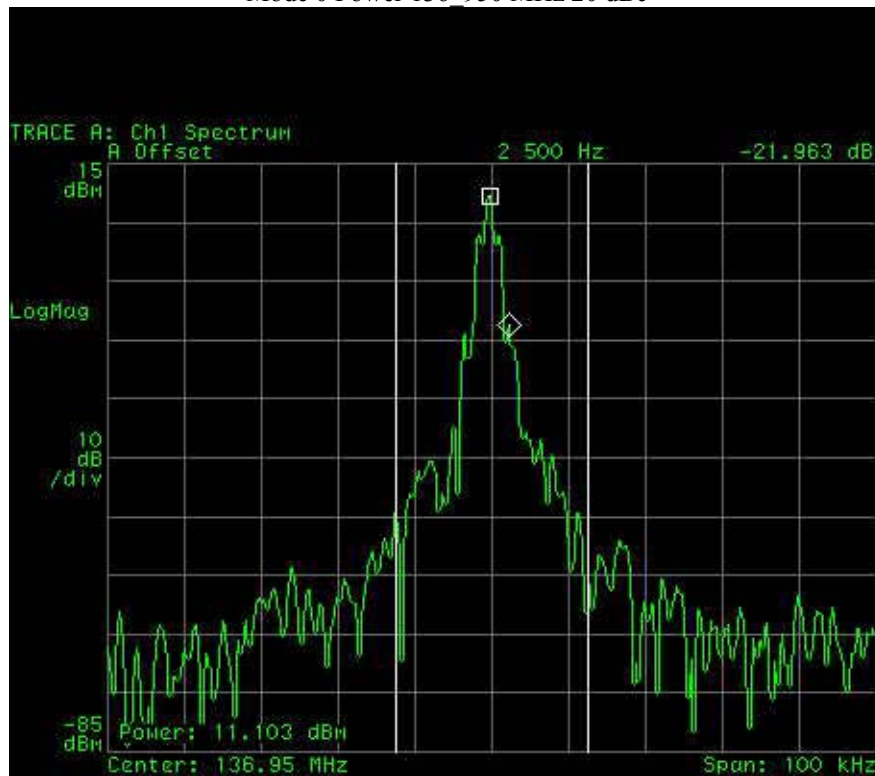
Mode o Power 131.550 MHz 25 dBc



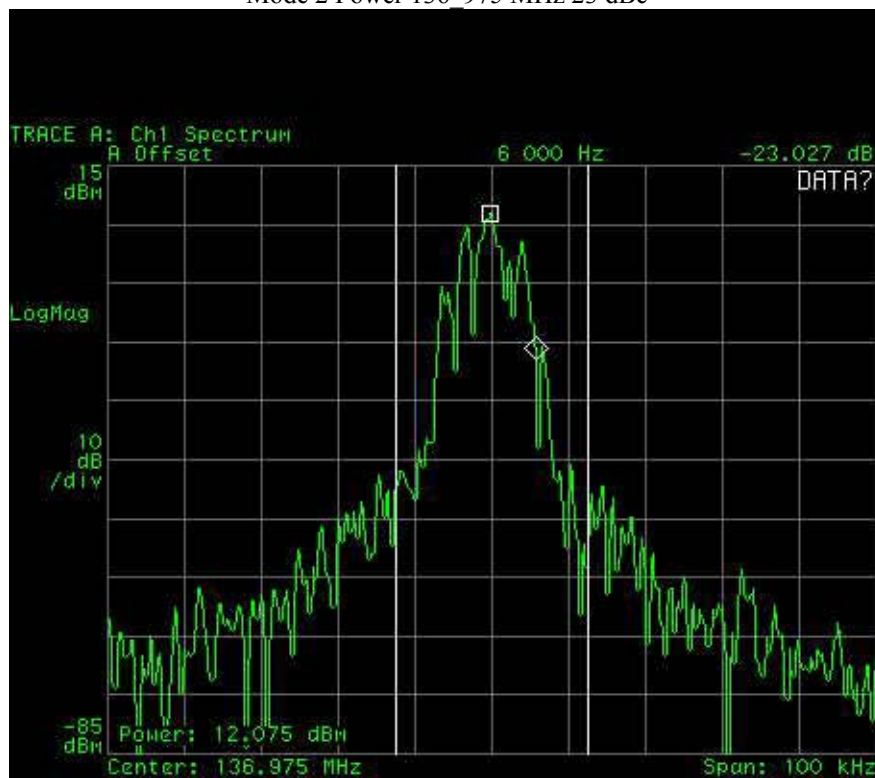
Mode 2 Power 131.55 MHz 20 dBc



Mode 0 Power 136.950 MHz 20 dBc



Mode 2 Power 136.975 MHz 23 dBc



1.1 Test Procedure for RF Power, Conducted Spurious Emissions and Occupied Bandwidth

1.1.1 Test Setup

Connect the DLink+ to the RF input port on and 30dB attenuator and connect the output of the attenuator to the Agilent Vector Signal Analyzer (VSA). Connect the DLink's Ethernet port to a laptop computer which has the DLink+ ground station software. Set up the VSA to trigger on IF and establish the power band markers for 25 KHz bandwidth. Connect 28 Vdc to the DLink.

1.1.2 Procedure

Energize the DLink+. Establish communications with the DLink+ from the laptop using the ground station tool. From the laptop, command the DLink+ into the ground station mode.

1.1.3 Mode 0

Command the DLink+ into mode 0 modulation. Set the ground station frequency to 118 MHz. Send a GSIF. Verify that the VSA captured the spectrum. Perform the following measurements:

Power: Displayed in dBm in the lower left of the window. Convert to watts and record.

Conducted Spurious Emissions: Verify that all spurs decrease with respect to distance from center frequency. Set the cursor on the peak of the first, maximum spur and record the dBc relative to the center frequency.

Occupied Bandwidth: Using the cursor, move it along the spectrum until you are as close as possible to -20 dBc. Read the frequency offset from the center frequency. Multiply by 2. This is the occupied bandwidth.

Repeat this procedure at 131.550 MHz.

Repeat this procedure at 136.950 MHz.

**Conducted Spurious Emissions, RF Power, Occupied Bandwidth,
List of Test Equipment**

Vector Spectrum Analyzer
Agilent Model 89441A
S/N 3416A01908/3509A01607
Calibration Date: 3/29/04
Calibration Due: 3/29/05

Laptop with Windows Operating System and DLink+ Ground Station Software

RF Attenuator (30 dB)
Pasternak Model 7021-30
No Calibration Required (measured prior to use at 30.1 dB)

DC Power Supply
Topward Model 3306D
SN 665496
No Calibration Required