

5C4-007-A Cooled Feed Test Report

2015-10-29

Installed at HCRO 2015-10-23, Antenna 1C

MINEX SUMMARY

<u>Model</u>	30-29-200-B	5C4 Chassis, Borosilicate Glass, Low Vibration Cryo Mount, Capacitor Board and Beryllium Copper Traces
<u>Vacuum</u>	Very Good	Running in intermittent mode around 19watts (data recorded)
<u>Cryo</u>	Very Good	Cooldown to ColdHd 65K / LNA 73K, 213watts (data recorded)
<u>X-pole</u>	Very Good	Noise (4.5 – 3.5dB out to 14GHz)
<u>Y-pole</u>	Very Good	Noise (4.5 – 3.5dB out to 14GHz)

LNA RECOMMENDED BIAS SETTINGS

Vm + Vd must be set exactly to values below
Adjust Vg as needed to get Id 25.1 to 25.3

Pole	Minex LNA S.N.	Bias at Minex	PAM's (HC default)
X	C-0040a	Vm -.50v / Vg .38v / Vd 1.20v / Id 25.1ma	15.0 / 15.0
Y	C-0018a	Vm -.50v / Vg .03v / Vd 1.20v / Id 25.0ma	

