

5C4-015-A Cooled Feed Test Report

2017-02-07

Installed at HCRO 2017-02-02, Antenna 3C

MINEX SUMMARY

<u>Model</u>	30-29-200-B	5C4 Chassis, Borosilicate Glass, Low Vibration Cryo Mount, Capacitor Board and Beryllium Copper Links
<u>Vacuum</u>	Very Good	Turbo running 90k rpms / 9watts, Diaphragm pump low speed (data recorded)
<u>Cryo</u>	Very Good	Cooldown ColdHd 65K / LNA 68K, around 182watts (data recorded)
<u>X-pole</u>	Very Good	Noise (5.0 - 4.0dB out to 12GHz)
<u>Y-pole</u>	Very Good	Noise (4.75 - 4.0dB out to 12GHz)

LNA RECOMMENDED BIAS SETTINGS

Vm + Vd must be set exactly to values below Adjust Vg as needed to get Id 24.8 to 25.0

Pole	Minex LNA S.N.	Bias at Minex	PAM's (HC default)
X	C-0083a	Vm -.50v / Vg 0 20v / Vd 1.20v / Id 25.0ma	15.0 / 15.0
Y	C-0084a	Vm -.50v / Vg -0.09v / Vd 1.20v / Id 24.8ma	

