

# H Line 3D Project

$mx + b$  2 pt data set correction

CSN Cold\_Sky\_Normalization

0 dB = referenced to Cold Sky

## H Line 3D Project

A Beginner's Guide to

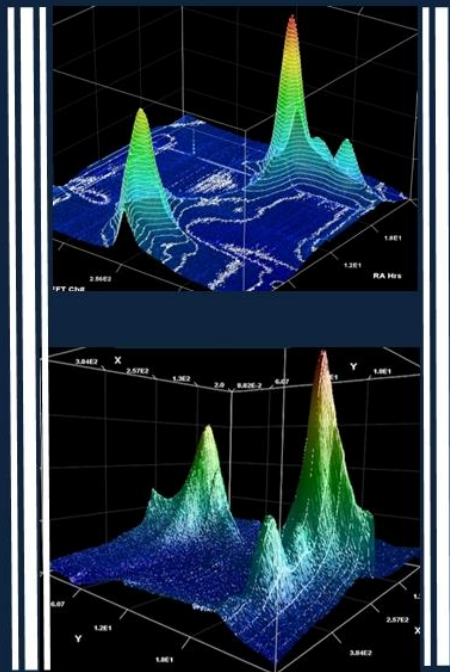
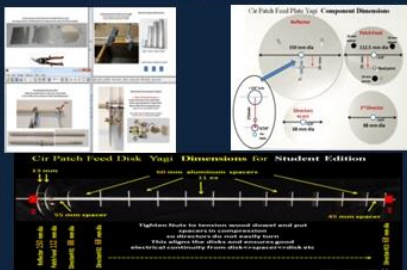
Antenna Fabrication, Reception, Recording, Software Processing, and Graphic Display  
of the 21cm Wavelength Microwave Electro-Magnetic Emission Spectrum  
from Neutral Hydrogen Clouds within Our Galaxy : The Milky Way

HARDWARE

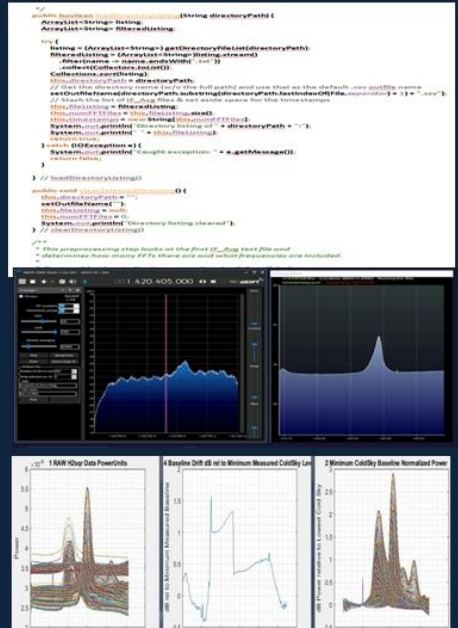
alex pettit

jamison adcock

SOFTWARE



Java IF Ave to CSV



# 2 point *Cold Sky Normalization* *$mx + b$ 2 pt data set correction*

*set low and high % values*

The screenshot shows the 'Project: H Line 3D' software interface. Red arrows highlight the 'CSN Low %' and 'CSN High %' sliders, the 'Choose Dir' button, and the 'Process' button. The interface includes a header with the project name, a central plot area with a 3D surface plot and a 2D line plot, and a bottom section with various settings and buttons.

**Project: H Line 3D**

**CSN Low %** **CSN High %**

**Choose Dir** **Clear**

# .txt Files found in Directory

**CSN Low 5% to 75%** - Cold Sky Normalization - **CSN High 75% to 95%**

**5** **90**

**Row and Column Units for CSV Files**

☒ Frequencies ☒ RA

☐ Velocities ☐ Seconds

☐ Sequential file #

**Starting RA**

00:00:00

☒ HH:MM:SS

☐ HH.hhhh

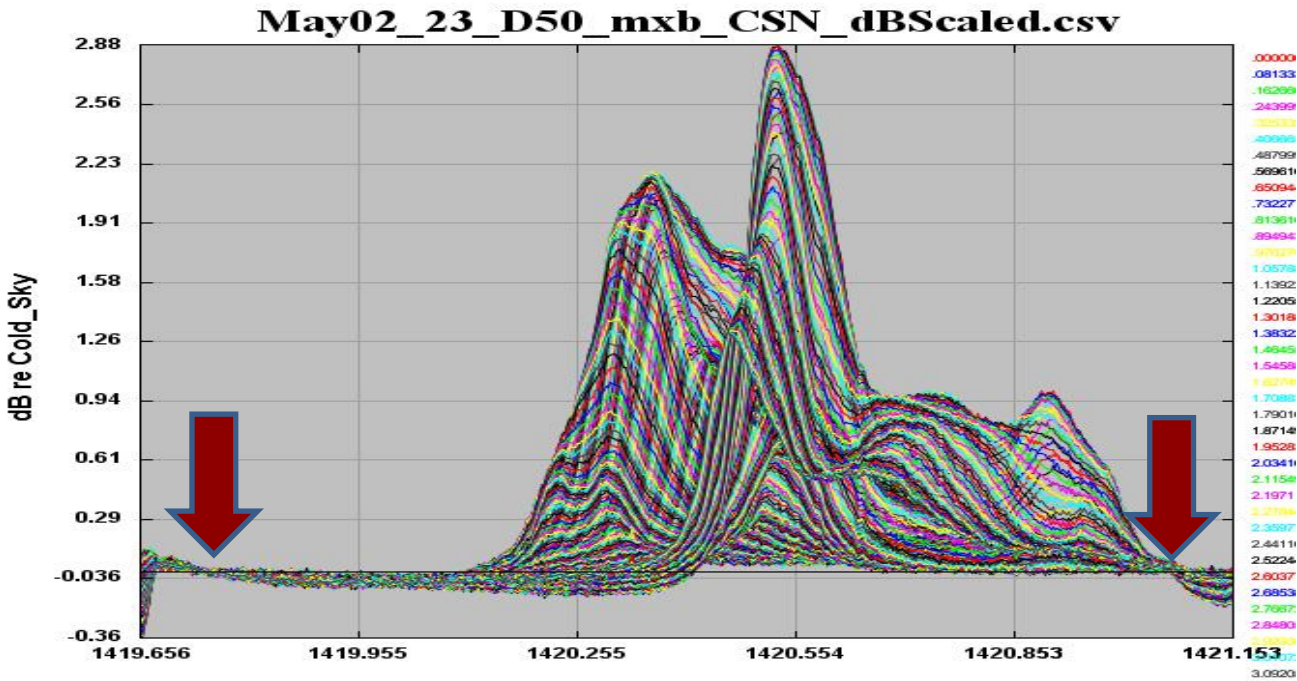
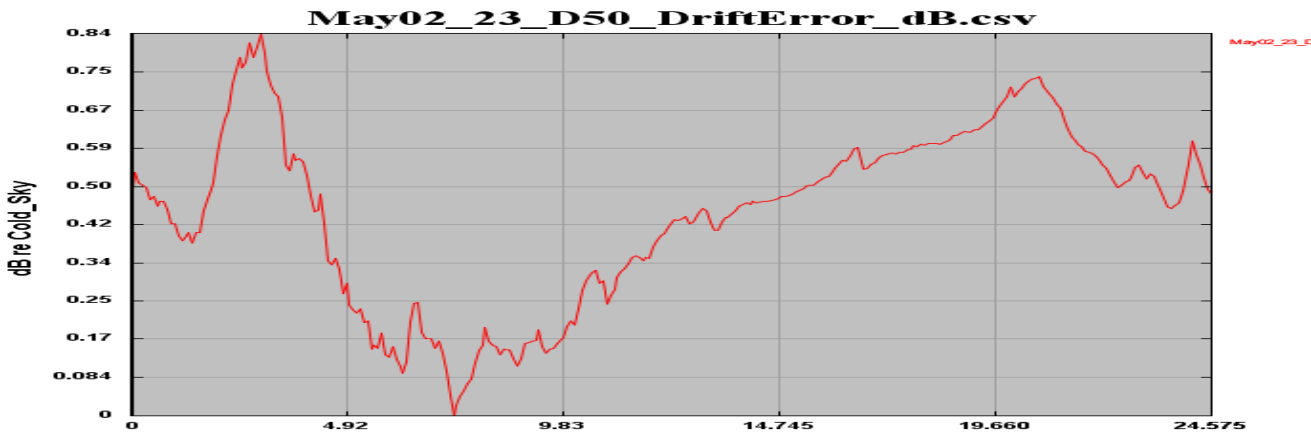
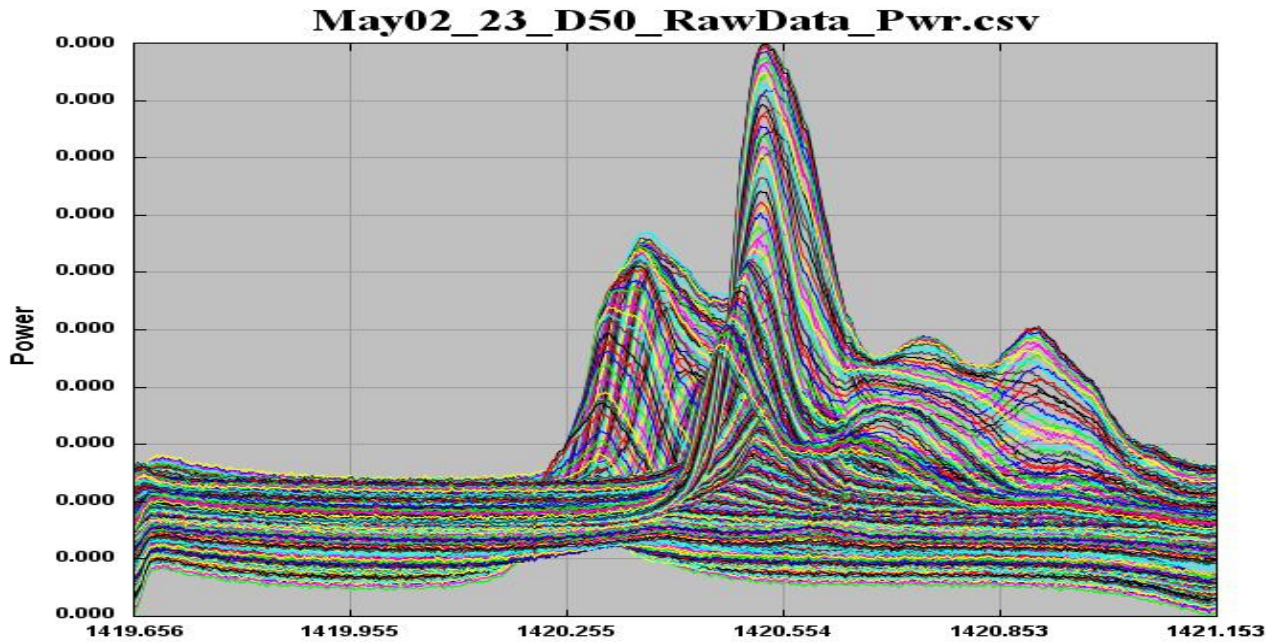
☐ Degrees

IFAvg\_File\_Name ( \_ added info ) = \*.CSV File\_Name

ver. ja\_ap\_varMXB\_intLogo\_11jan25\_01

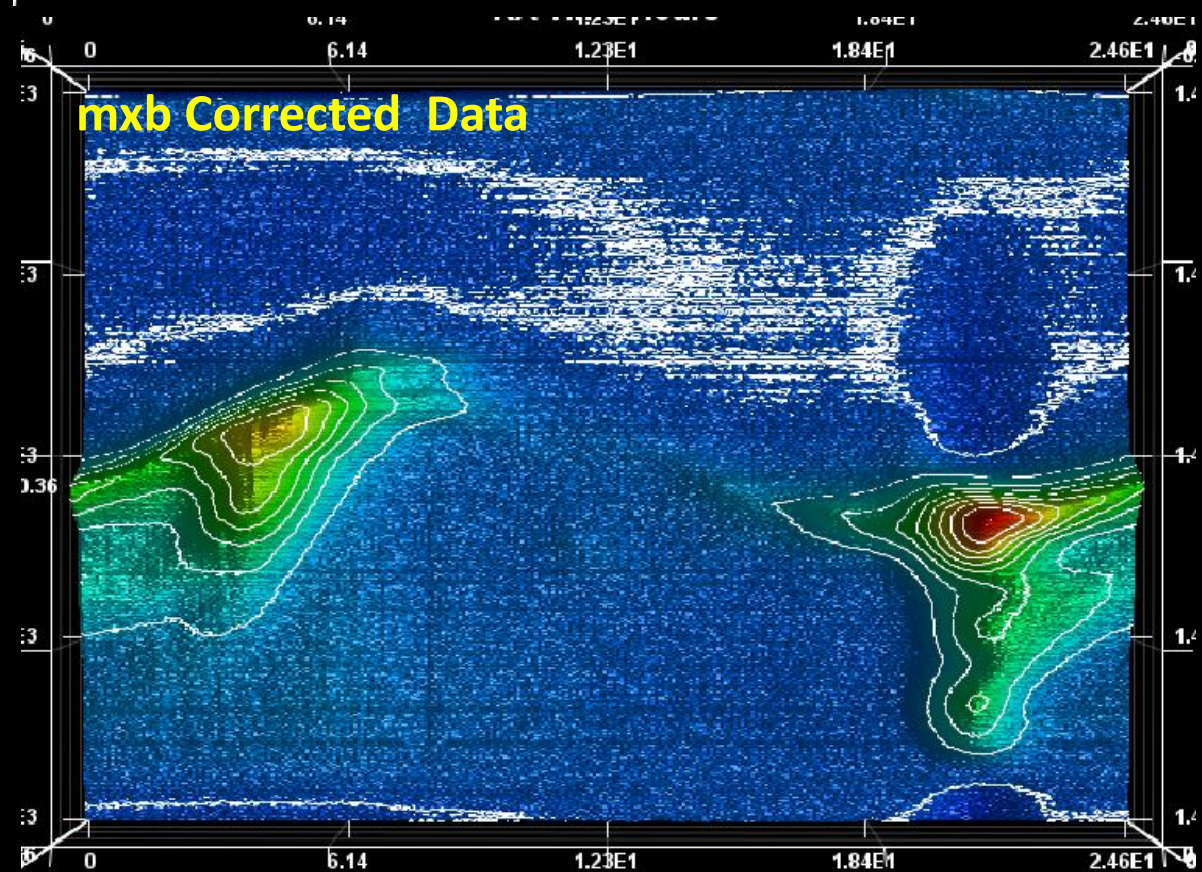
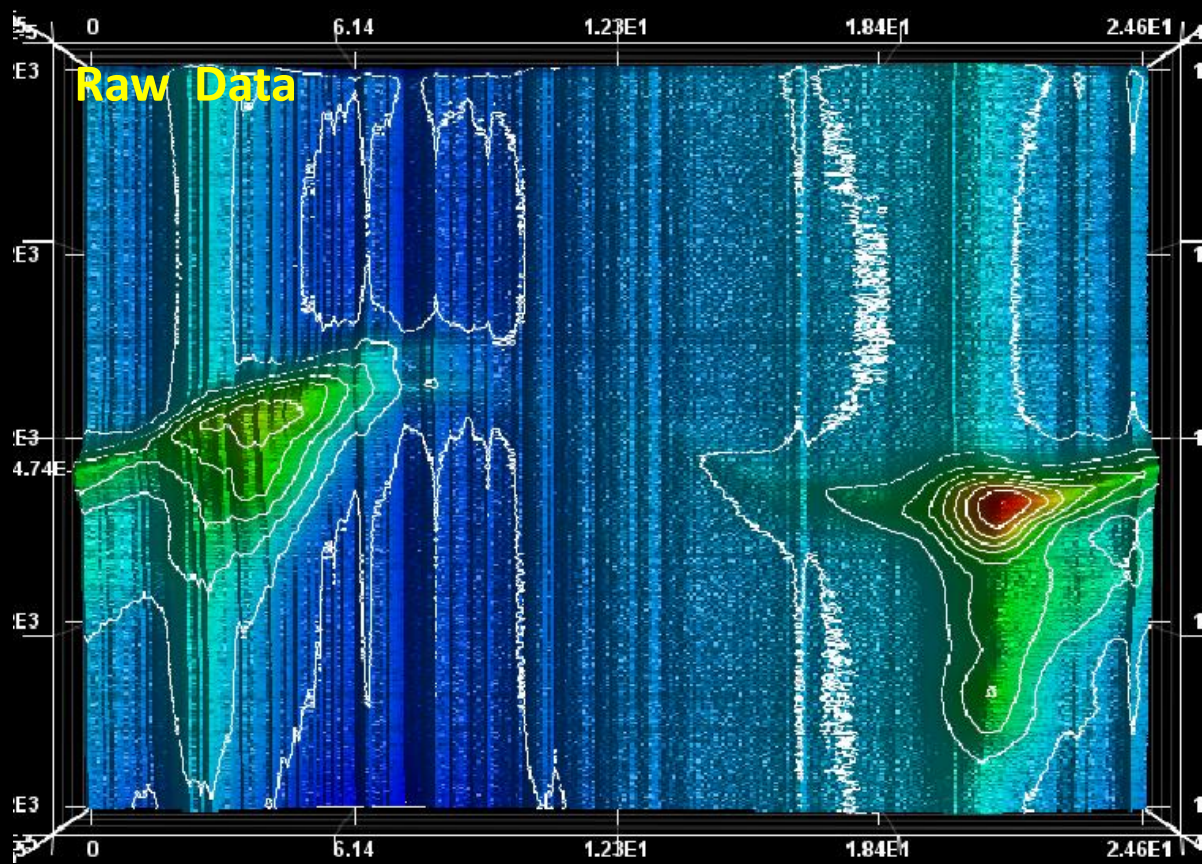
**Process** **Done**

PRT 1.2m Dish “ ~ normal data “



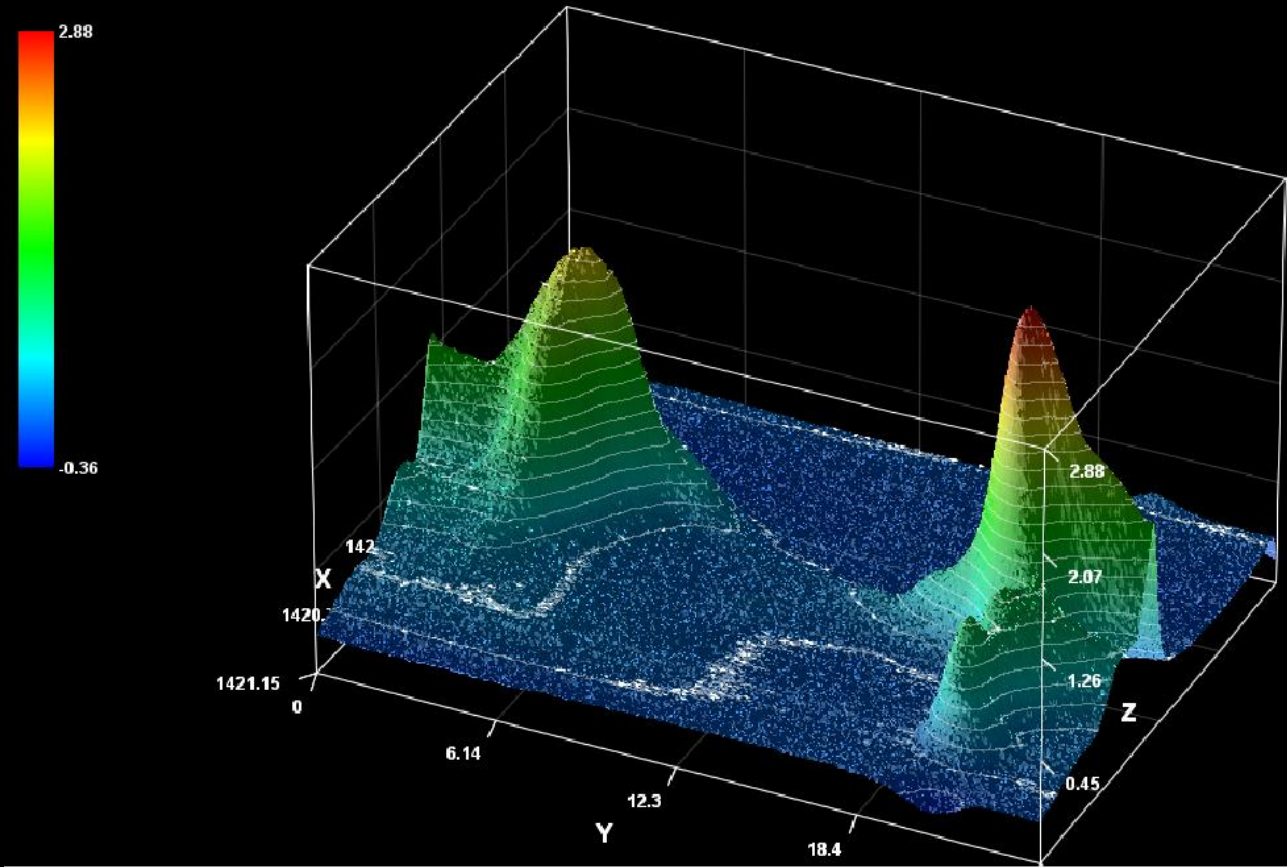


**PRT 1.2m Dish “~ normal data”**

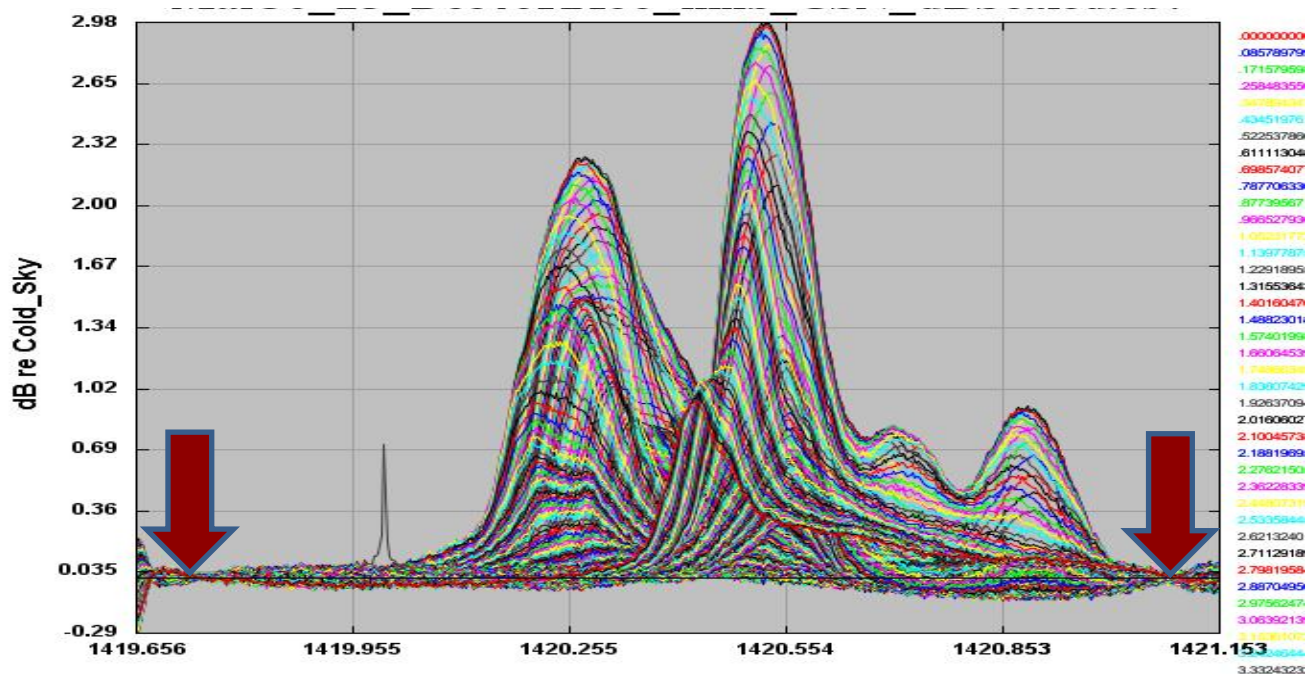
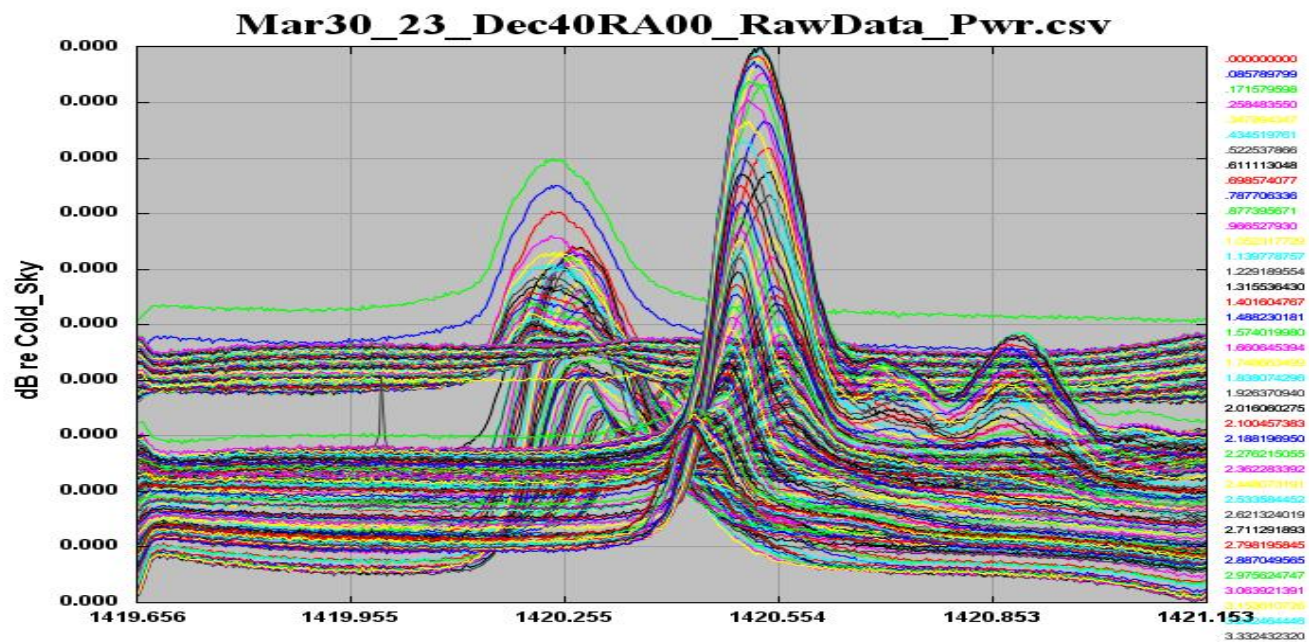




PRT 1.2m Dish “~ normal data ” mxb corrected

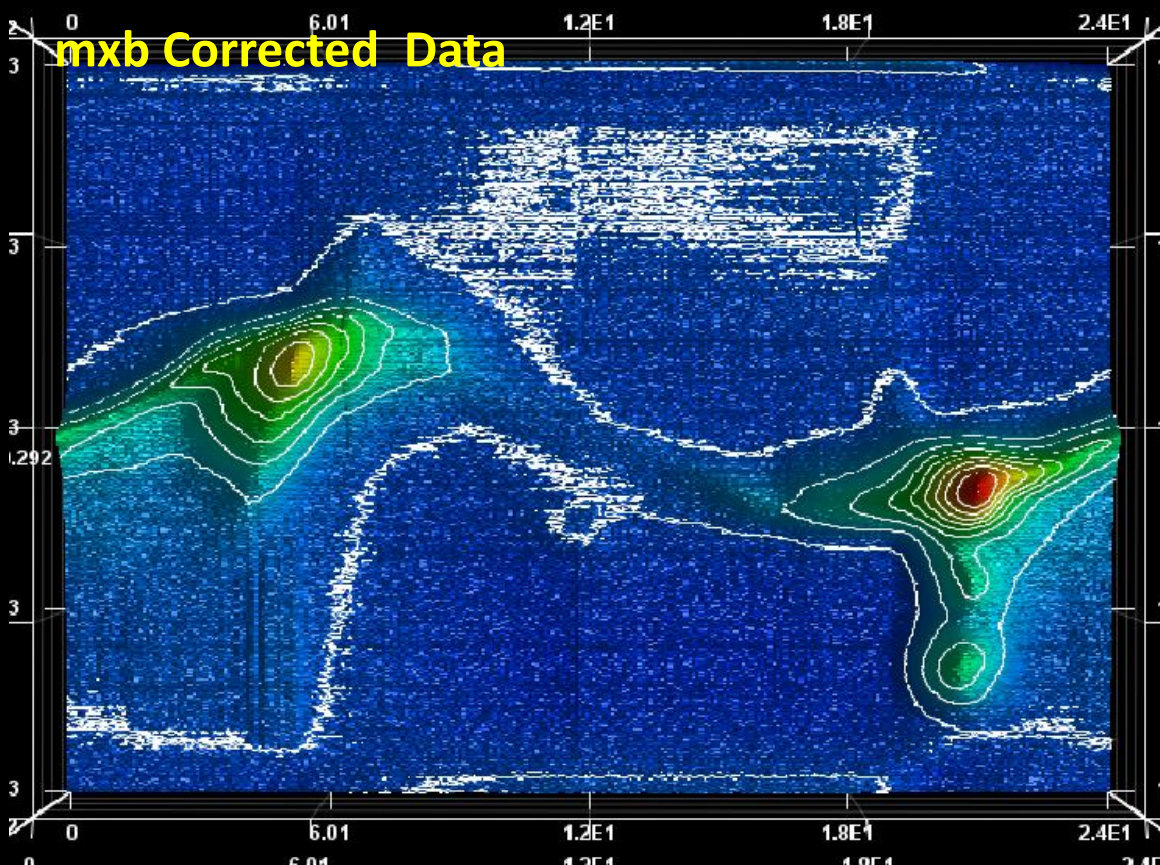
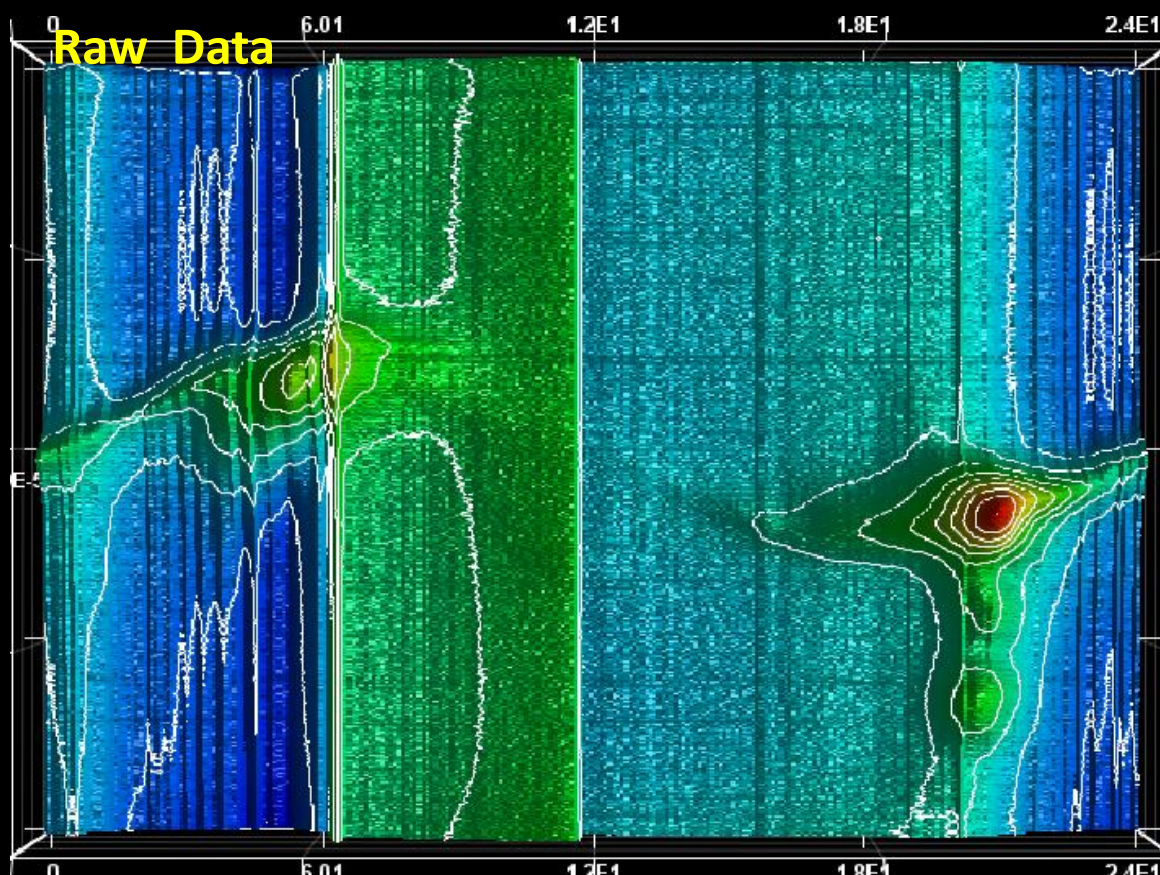


**PRT 1.2m Dish    added plastic sheet dew shield @ 5-10 hrs**



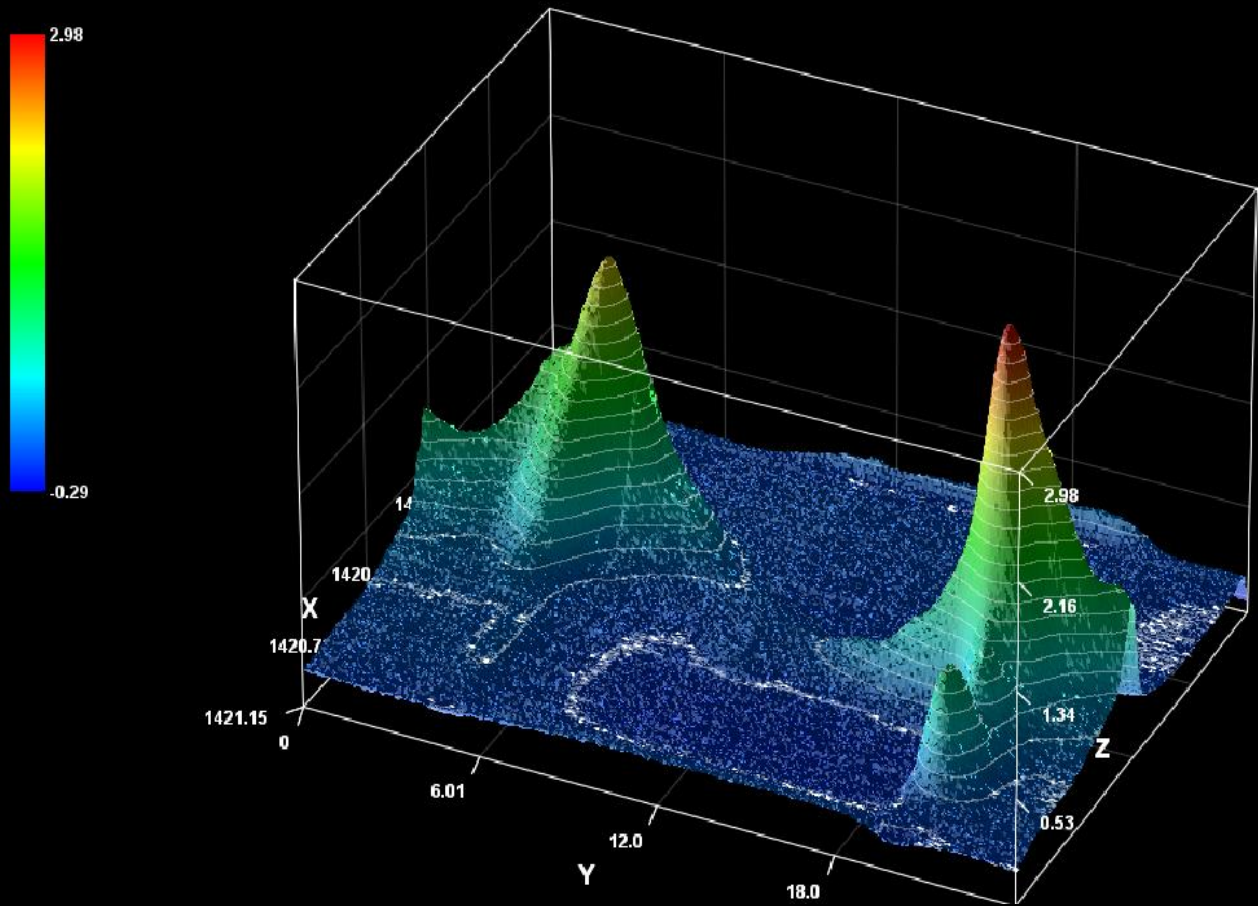


PRT 1.2m Dish added plastic sheet dew shield @ 5-10 hrs



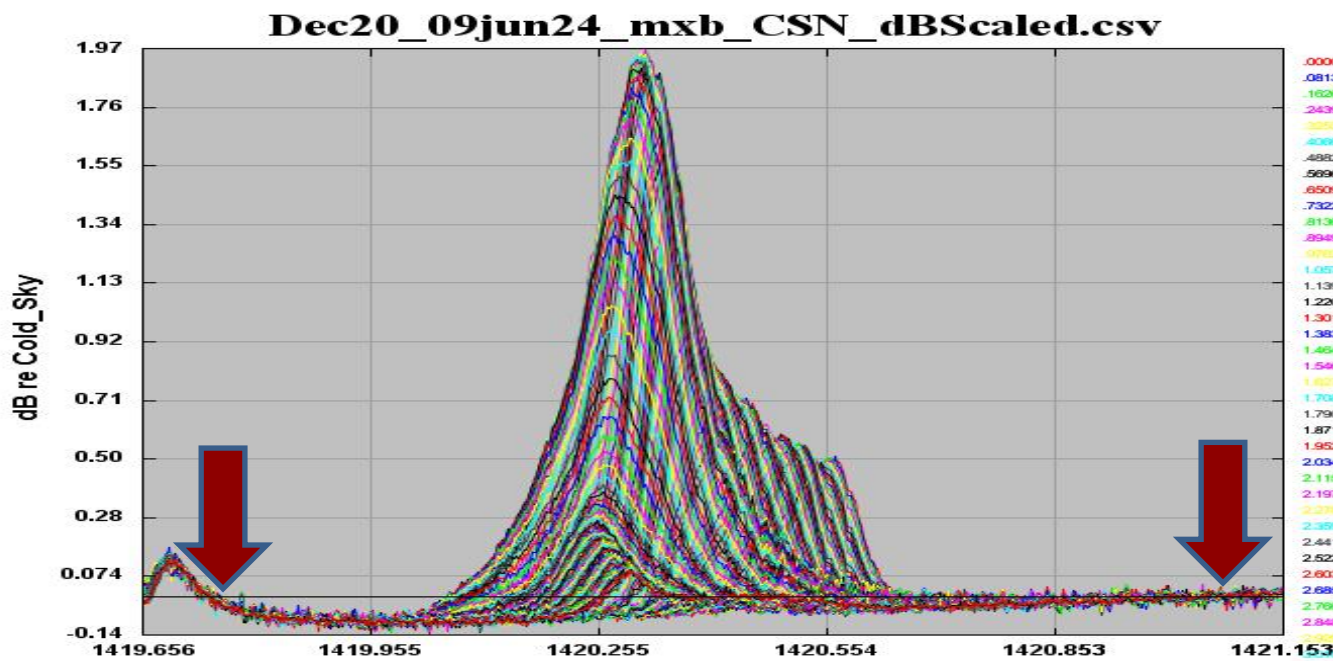
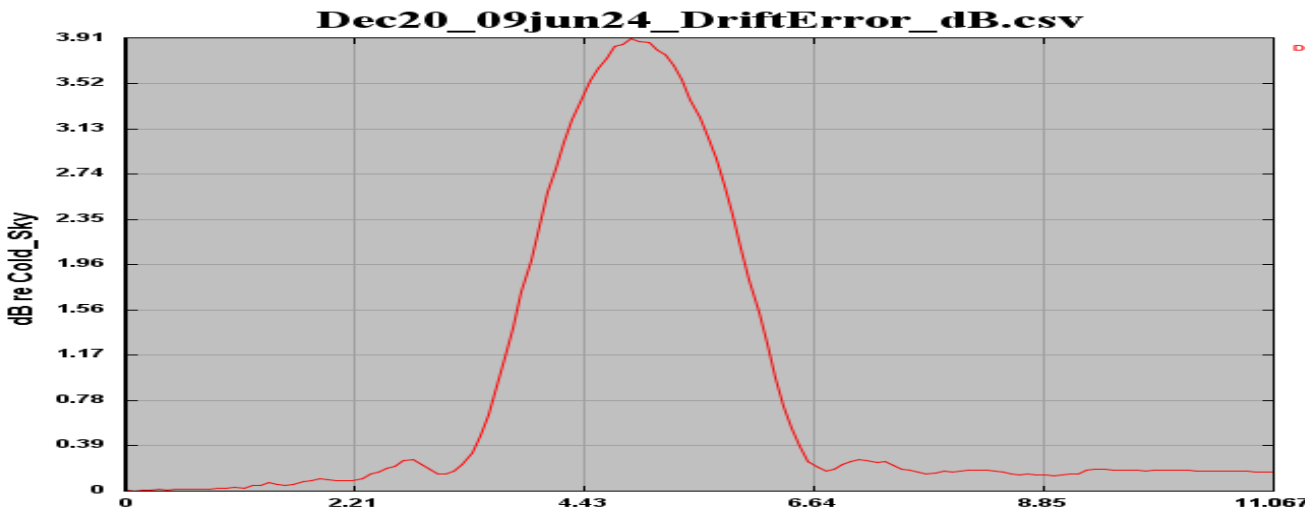
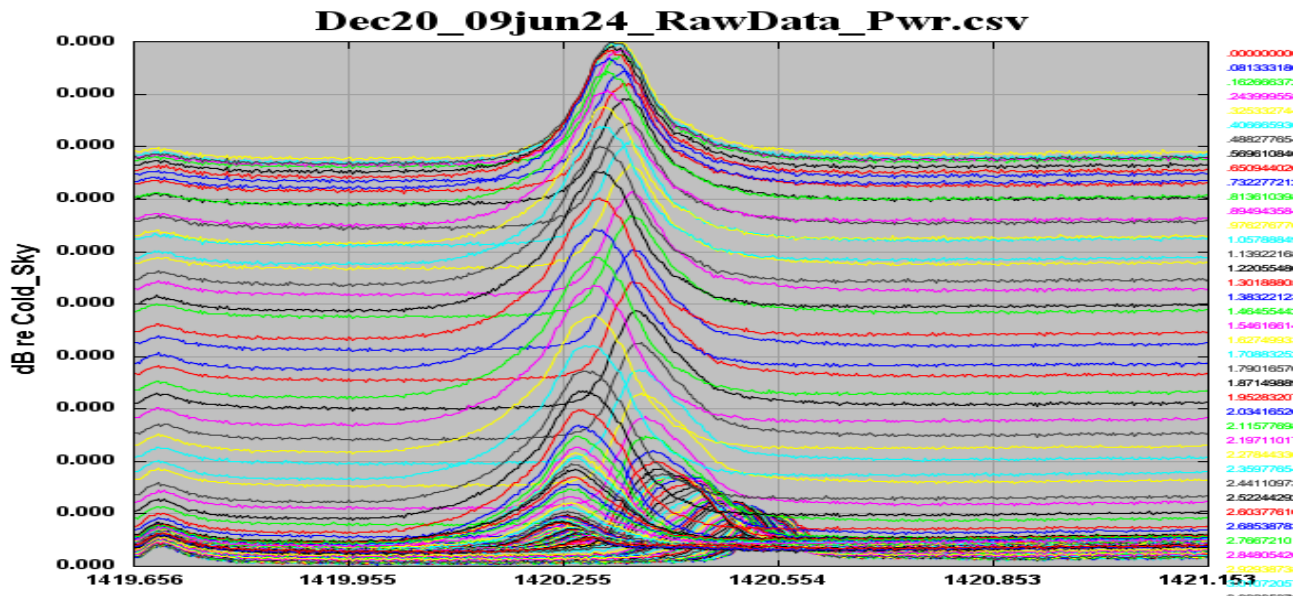


*PRT 1.2m Dish    added plastic sheet dew shield @ 5-10 hrs*

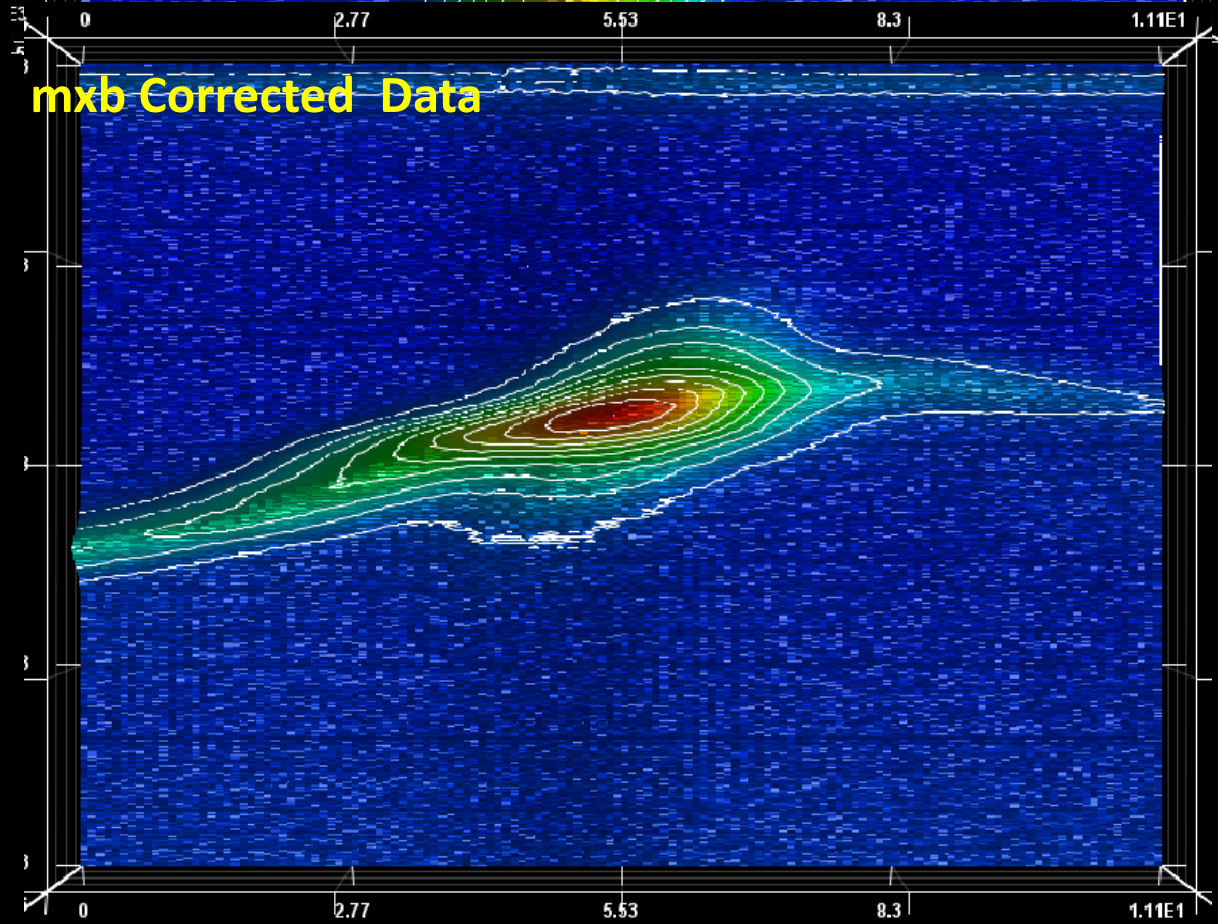
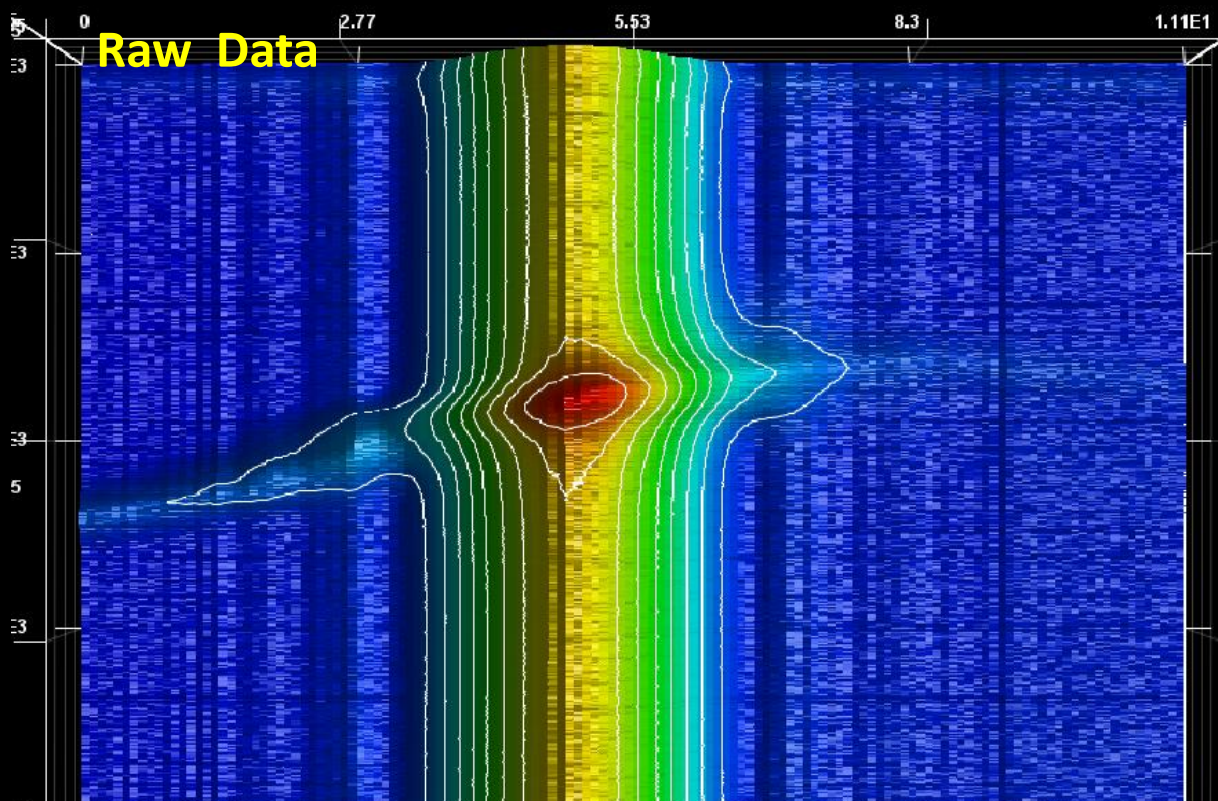




**0.75m Disk Yagi** *high Sun noise bleedover into side lobe*

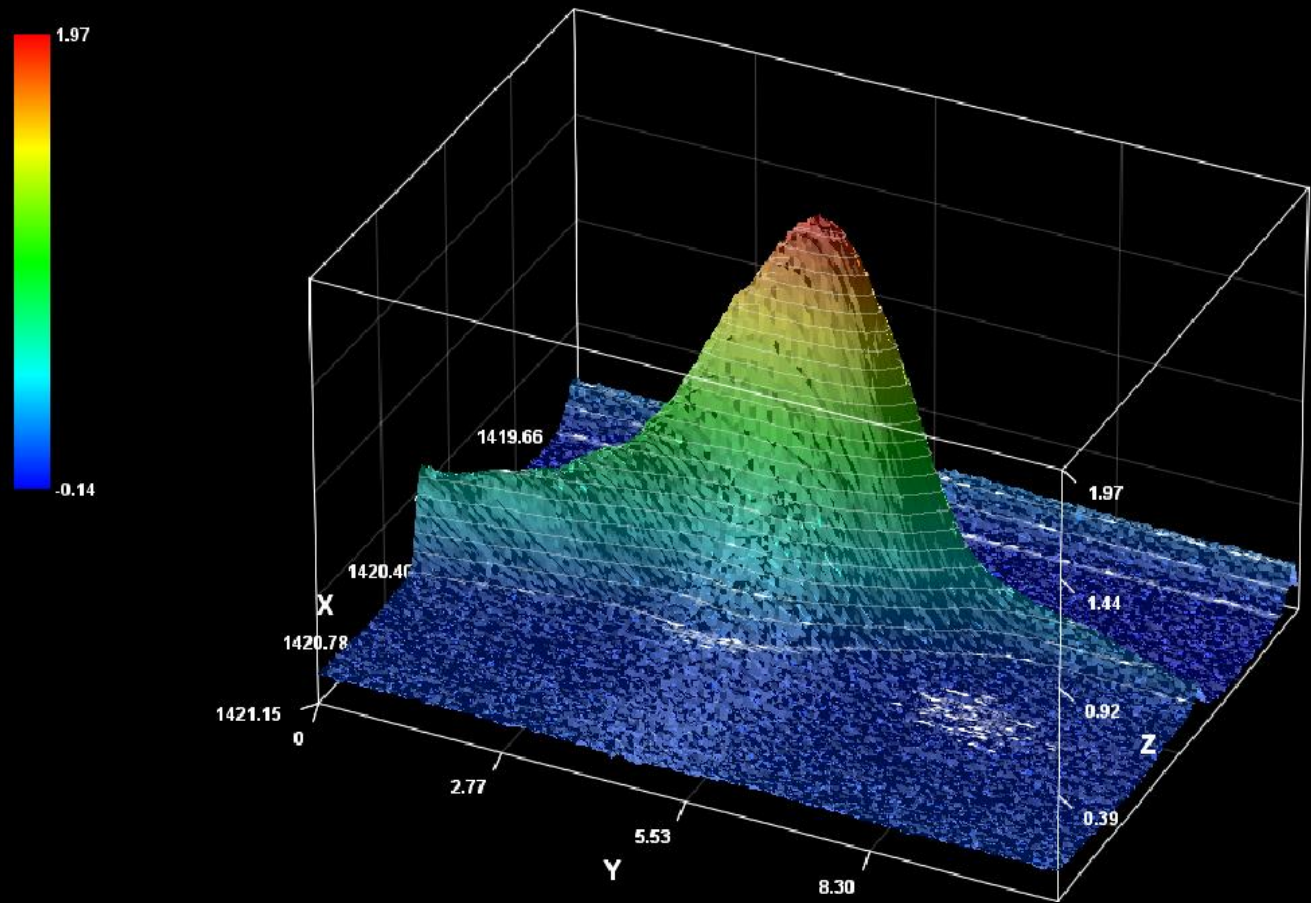


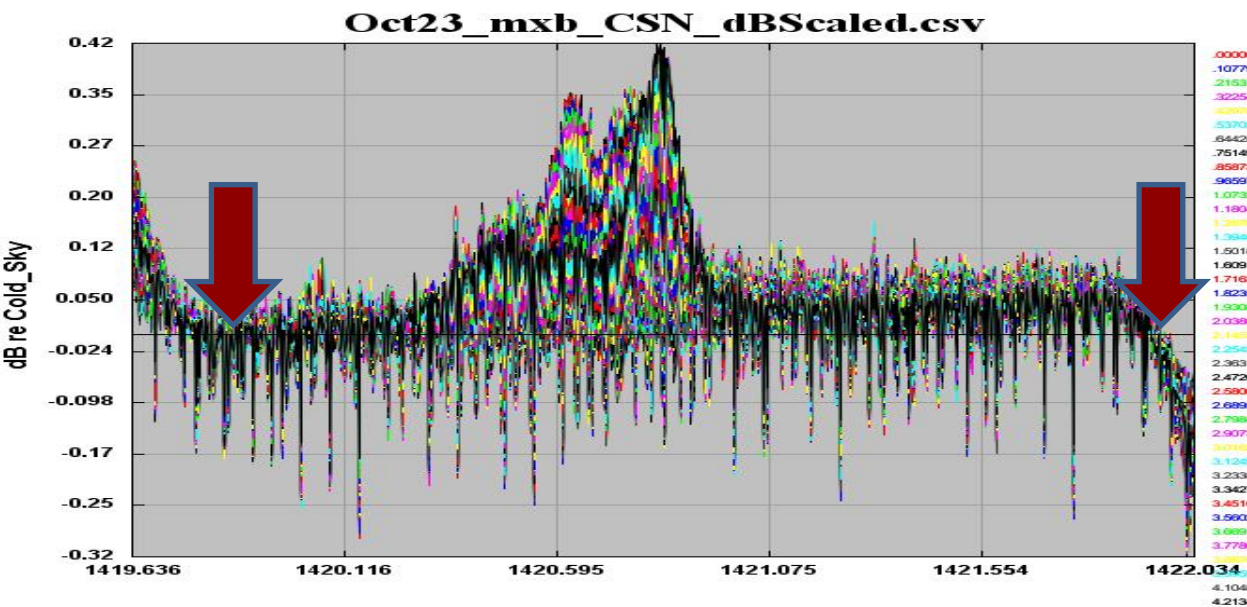
0.75m Disk Yagi high Sun noise bleedover into side lobe





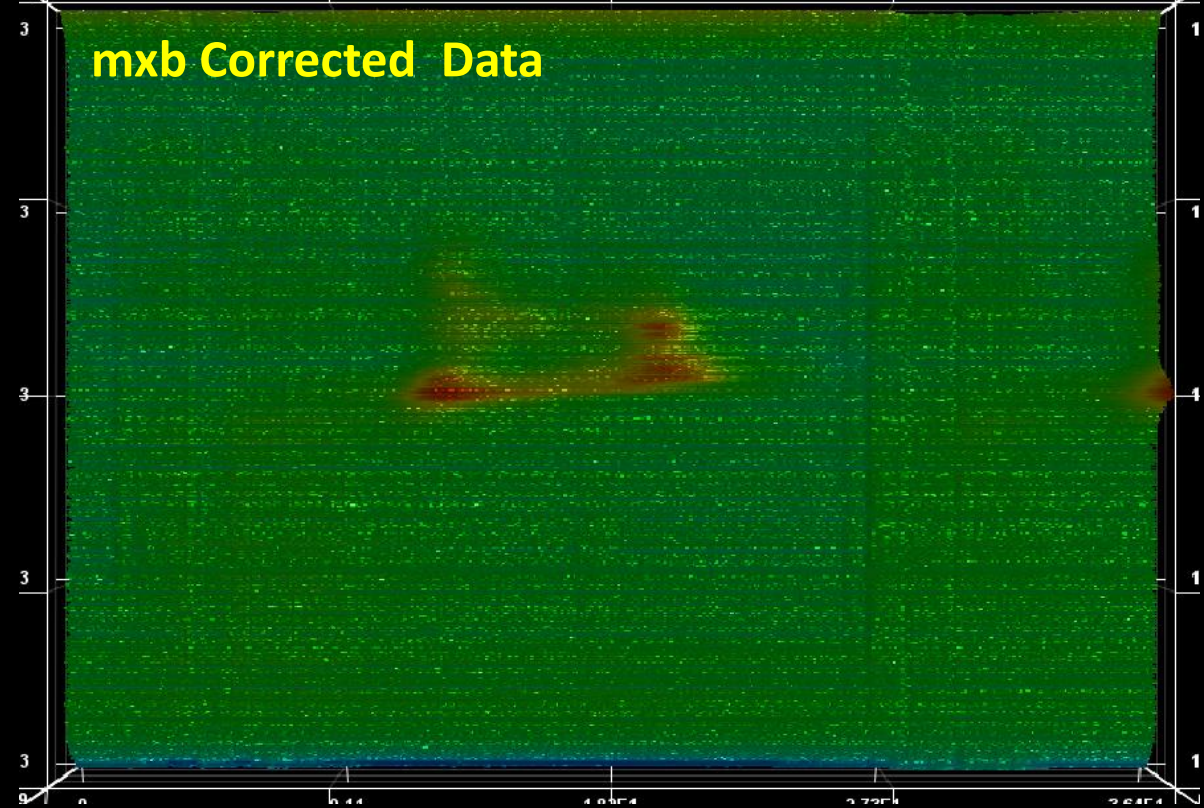
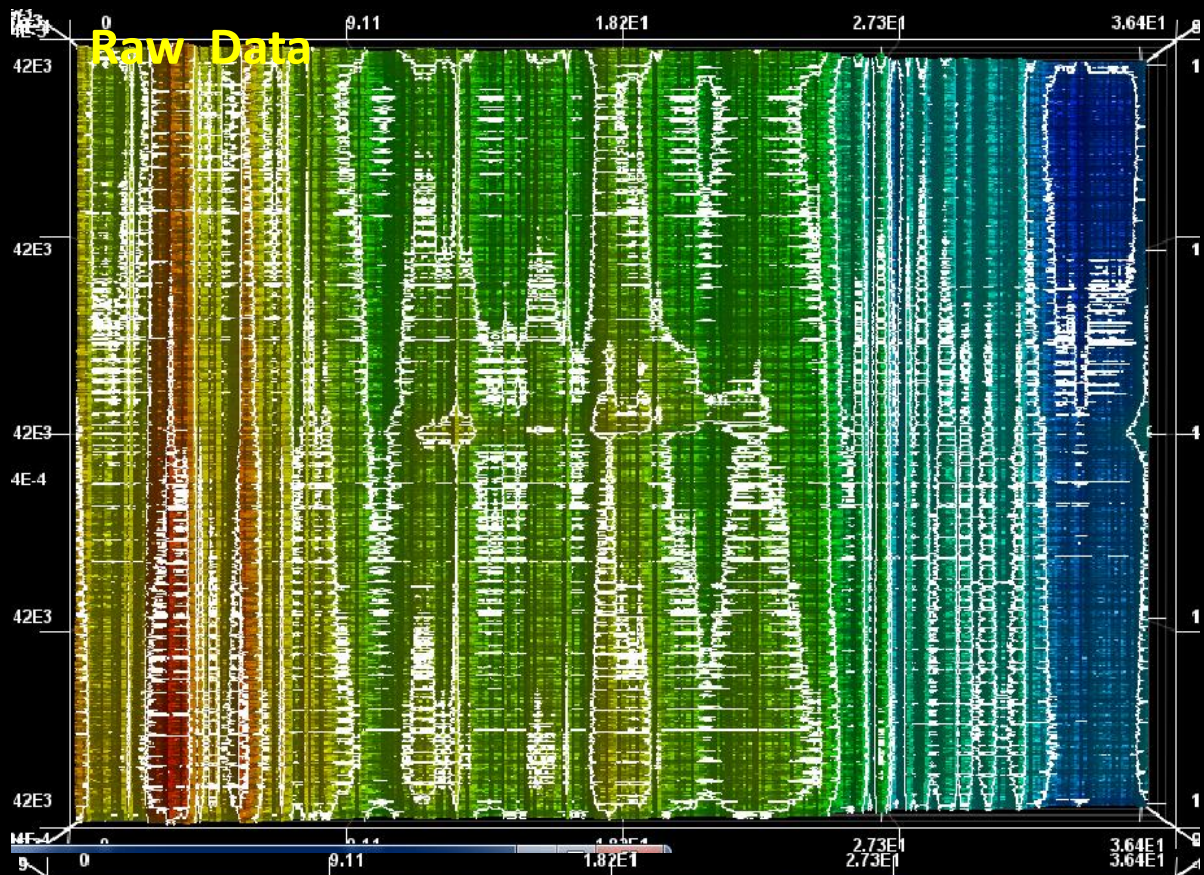
0.75m Disk Yagi high Sun noise bleedover into side lobe



[illegible]



communication array antenna w/ drift / RFI error ( not my data )





*communication array antenna w/ drift / RFI error ( not my data )*

