

Introduction

- How good was the CP from my RWST feed?
- View across surface of the dish
- System had feed alone, with no choke ring

Measurement Points



Measurement Probe

- Lightweight, handheld
- Rotatable for V and H
- Simple construction
- Remote control
- Reflector to give consistency

Probe view

- 1m handle
- Bellcrank rotation control
- PCB reflector



Probe view – operating mechansim



Probe view - dipole



Measurement System



Expectations!

- H and V signals equal in amplitude on ordinates
- -10dB signal level at dish rim

Results - H



Results - V



Average 'circularity' results



Average 'circularity' results



Maxima and Minima

- Very subjective measurement
- Generally 90° apart on observation
- Orientation progressed round quadrant

Improved Method



Conclusions

- The process was educational!
- No consistency was observed, but biggest variation was on the corner of the RWST
- Not possible on these tests to eliminate feed support influences, but poor circularity at top of quadrant likely to be due to reflections from support
- Dish was not well illuminated!