

**Date :- 19<sup>th</sup> April 2011**

## **RFI Measurement Around 15 Meter Dish at NCRA, Pune**

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Following are the test result of RFI measurement done around 15 meter dish at NCRA, Pune on 19<sup>th</sup> April 2011.

### **Test Procedure :-**

1. Frequency Bands 0-500MHz, 500-1000MHz, 1000-2000MHz and 2000-6000MHz observed by directing LPDA at East, North, West and south direction.
2. Received frequency were measured on R&S Spectrum Analyzer, Log Periodic Antenna used for receiving frequency around 15 meter dish antenna in horizontal polarization. Amplifier of 20dB gain used in between Spectrum Analyzer and Log periodic Antenna.

### **Conclusion :-**

- Mobile phones are major contributors to RFI generated around 15 meter dish.
- In 150MHz band Aeronautical Navigation, TV Broadcasting and FM Radio signals creates lots of RFI.
- As shown in plot 150 MHz and 233 MHz frequency band having some lines in the Broadcasting and Fixed Mobile Frequency band. Each line having 7 MHz difference between them.
- The RFI lines falling within the allocated Radio Astronomy Bands is highlighted.

















