

UNIVERSITAS INTERNASIONAL BATAM

Kerja Praktek
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PERBANDINGAN PENGUKURAN DAN ANALISA OKUPANSI SPEKTRUM MENGGUNAKAN METODE *CALCULATED THRESHOLD* DAN METODE *VISUAL THRESHOLD* DI BALAI MONITOR SPEKTRUM FREKUENSI RADIO KELAS II BATAM

Iben Christ Zulvikar Gultom
NPM: 1421017

ABSTRACT

One of the tasks of the Radio Frequency Spectrum Monitoring Unit of Class II Batam is the measurement of radio occupancy. This measurement aims to determine whether a particular channel or frequency range is occupied by using the R & S® Monitoring System. After the measurement of occupancy is done then the measurement data will be processed based on subservice frequency band. And each subservice frequency band has a value defined as the boundary so that a channel can be said to be occupied or occupied based on the received level of power or commonly called a threshold.

So far, threshold determination is only based on the subjective method (visual threshold) to find the value limit (noise level and signal), whether a channel is said to be occupied or not while calculated threshold is a method contained in ITU-R SM.1753 recommendation which has the formula and calculation in the determination of noise levels and signals. In this project will be a comparison which will then be given the comparison results for its use in Balai Monitor Spektrum Frekuensi Radio Kelas II Batam.

The measurement results obtained are in the form of text data and graphs showed the different results, and then making comparison on both methods. So on this project will be done comparison of radio occupancy measurement using Visual method and Calculated method to see the effectiveness of method of both methods.

Keywords: Occupation, Calculated, Threshold.