Digital Communications Lab

Laboratory report submitted for the partial fulfillment of the requirements for the degree of

Bachelor of Technology in Electronics and Communication Engineering

by

Kartikeya Acharya

21UEC072

Course Coordinator
Dr. Anirudh Agrawal/ Dr. Santosh Shah/ Dr. Soumitra Debnath



Department of Electronics and Communication Engineering
The LNM Institute of Information Technology, Jaipur

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Chapter 1

Experiment - 4

1.1 **AIM**

- Implementation of ASK Modulation.
 Non-Coherent Demodulation of modulated ASK.

1.2 **Apparatus Used**

IC: LM741 (Op - Amp)	Transistor BC547 (NPN)	1N4007 (Diode)
Capacitors	Resistors	Potentiometer
Breadboard	DC Power Supply	Connecting Wires
Digital Storage Oscilloscope	Function Generator	DSO Probes

1.3 Observations

1.3.1 Calculation

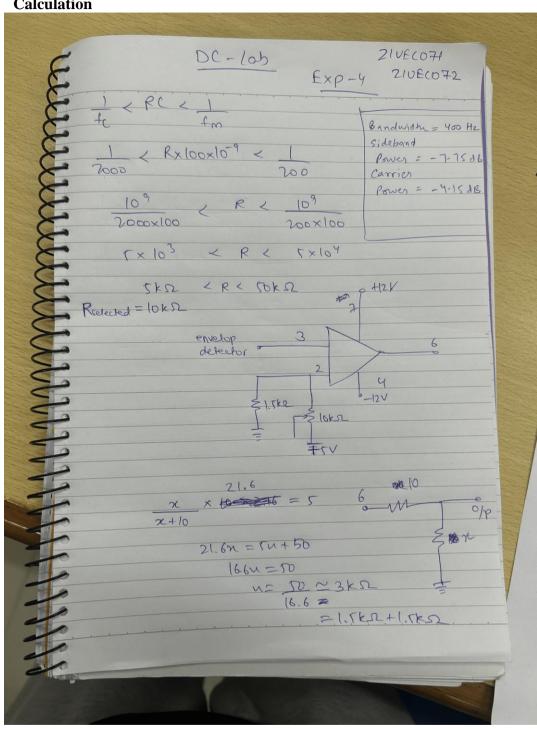


Figure 1.1: Calculation

1.4 Result Screenshots

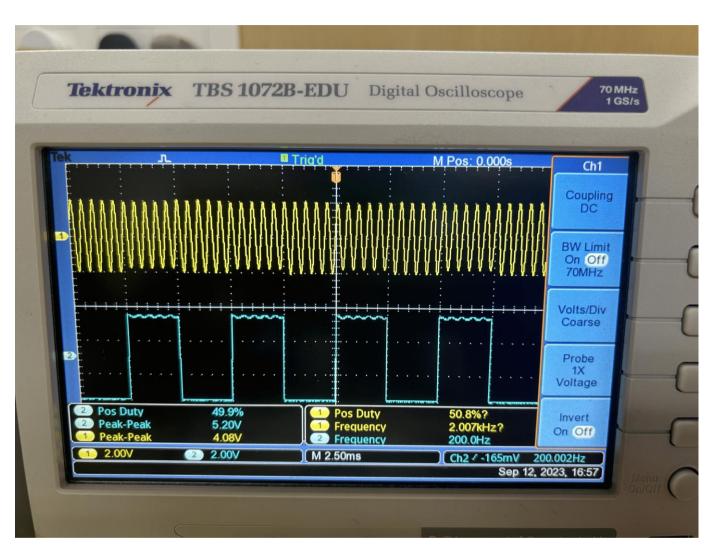


Figure 1.2

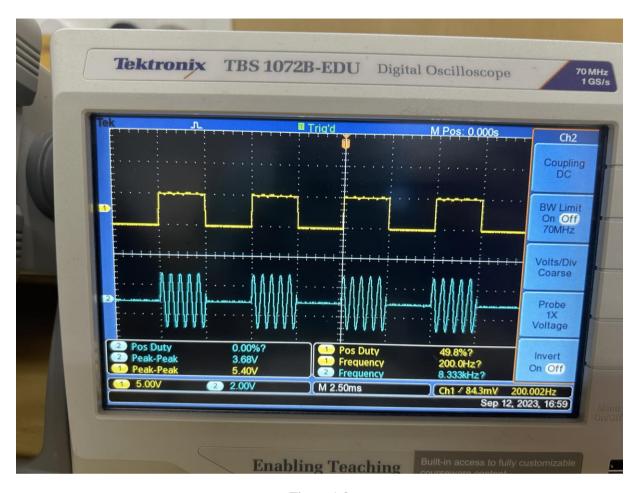


Figure 1.3

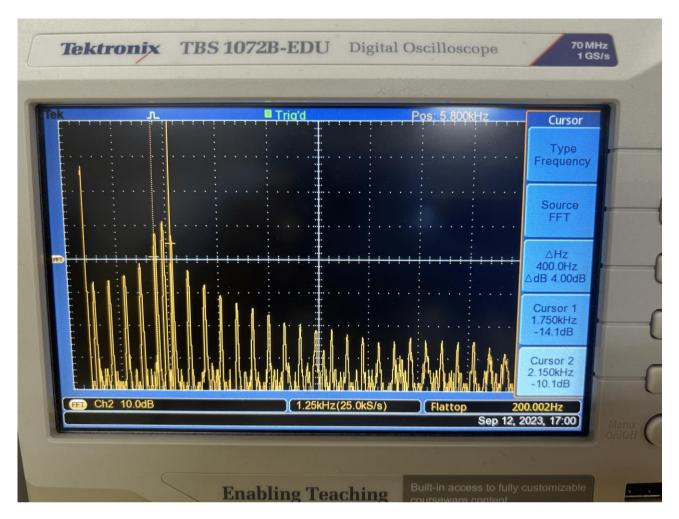


Figure 1.4

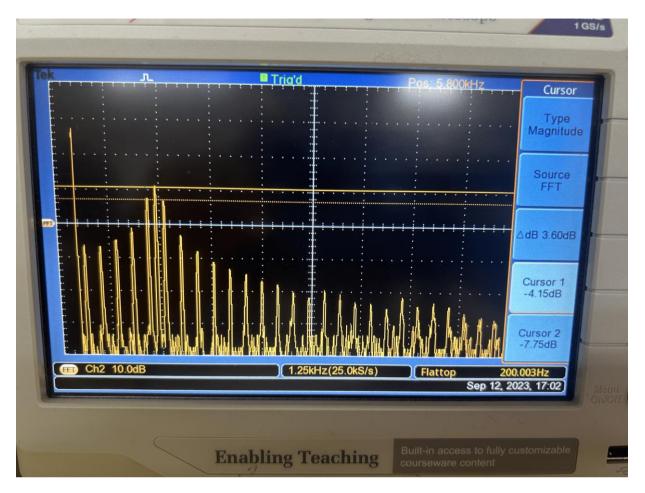


Figure 1.5

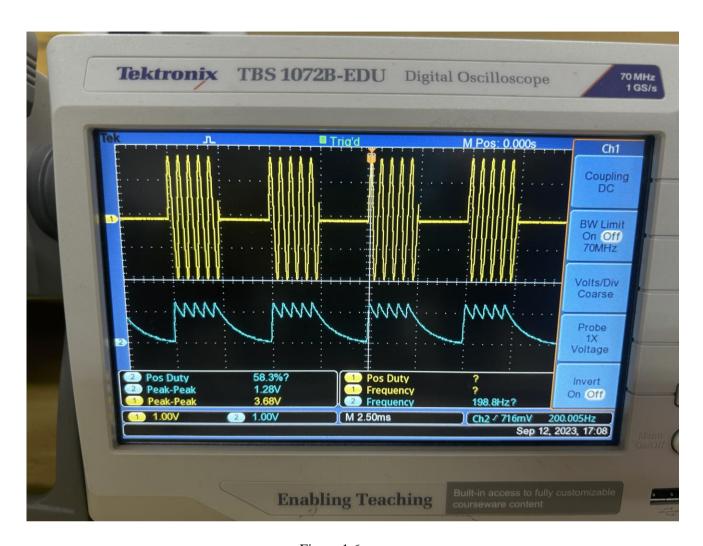


Figure 1.6

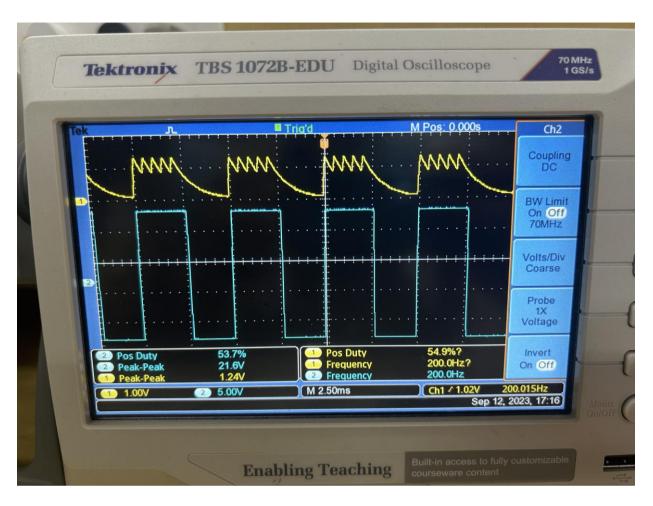


Figure 1.7

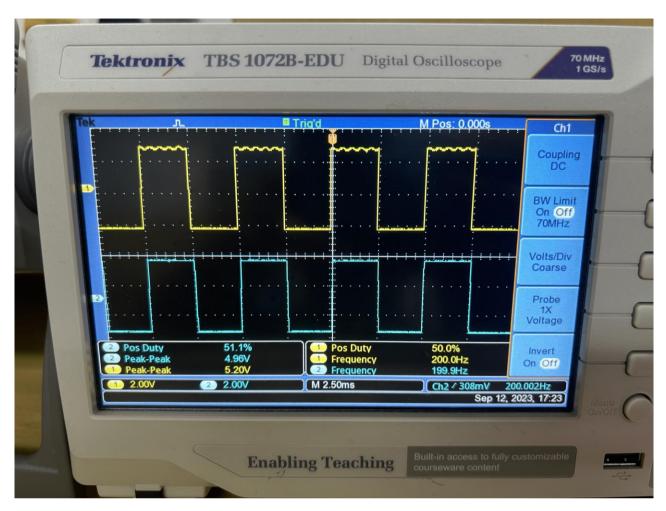


Figure 1.8

1.5 Precautions

- 1. Check the connections before switching on the kit.
- 2. Connections should be made properly.
- 3. Observation should be taken properly.