

1 Part 3: Clock Estimation

1.1 Timing Recovery - Matched Filters

1.1.1 Receiver VI Setup

No narrative required for this section.

1.1.2 Transmitter VI Setup

No narrative required for this section.

1.1.3 Measurements

1.1.3.i Matched Filter Analysis

β	ζ
0	6.86
0.5	21.63
1.0	30.79

Table 1: Measured ζ for Different Roll-off Factors β

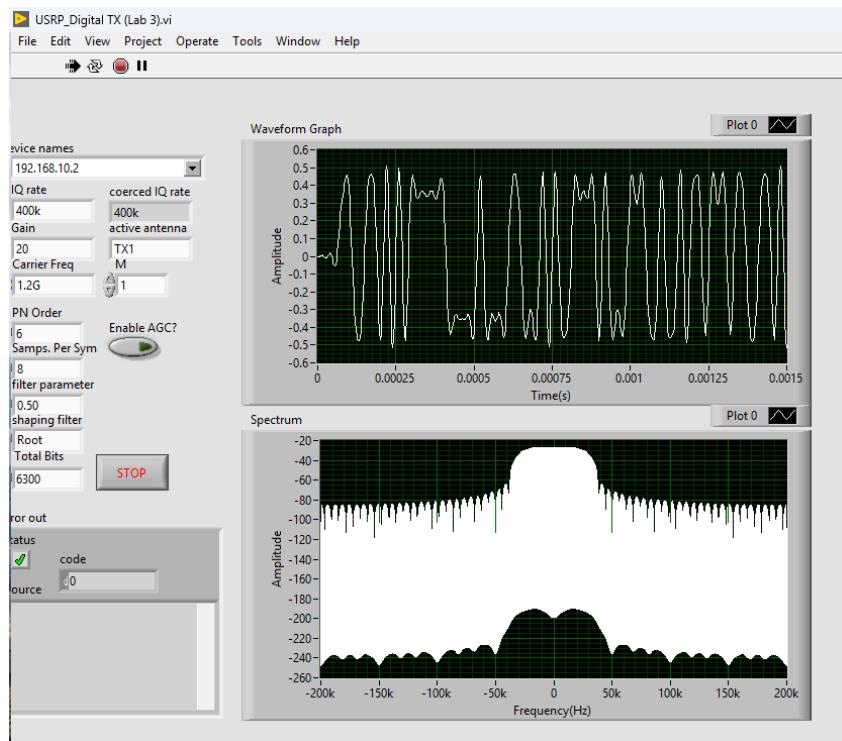


Figure 1: 3.1.3 - Transmitter Output Signal with Matched Filter

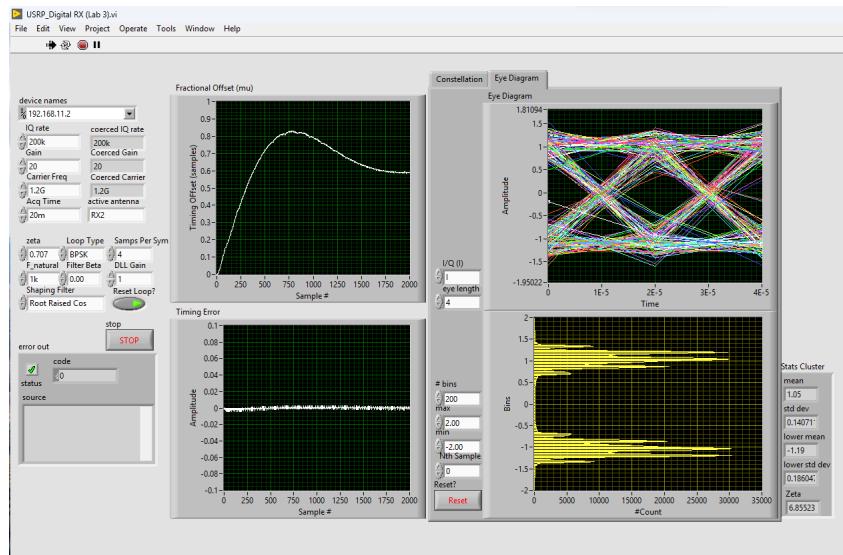


Figure 2: 3.1.3 - Receiver Output Signal with Matched Filter, $\beta = 0$

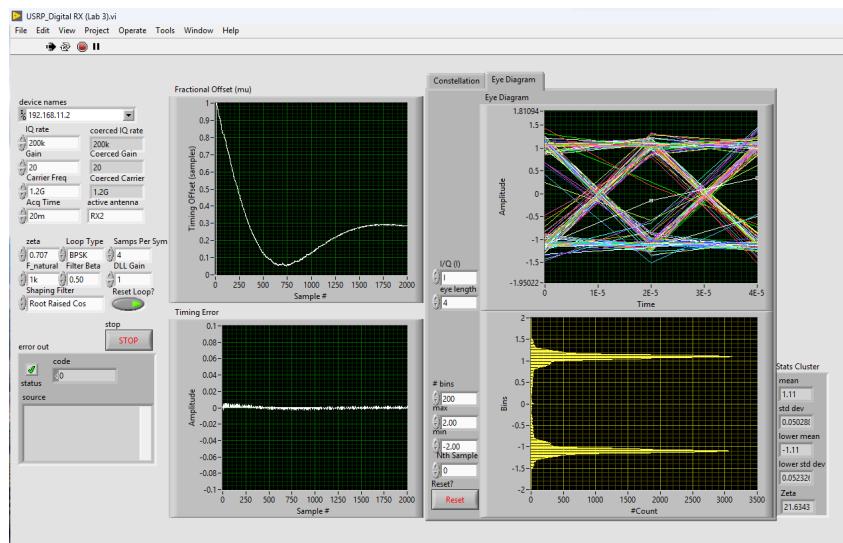


Figure 3: 3.1.3 - Receiver Output Signal with Matched Filter, $\beta = 0.5$

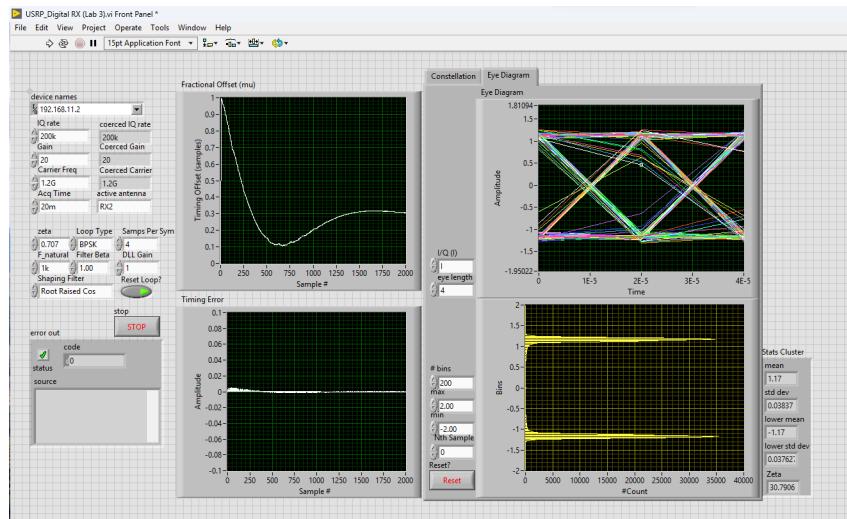


Figure 4: 3.1.3 - Receiver Output Signal with Matched Filter, $\beta = 1$

1.1.3.ii Fractional Symbol Offset Graph Analysis

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1.2 Write-Up

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