From figures 2- 4, we see that as $\gamma$ decreases, the behaviour of the MSSW approaches the behaviour of the structure with omission of loss (Al-Sahhar 2013). We also see that as the ferrite layer thickness, $s$, changes, the MSSW undergoes different behaviour and the corresponding frequency to a certain propagation constant $k_y$ changes.

To understand the effect of the thickness of the MTM layer on the behaviour of the MSSW, we plot in figure 5 the normalized frequency versus $k_y$ at $w=0.790 \mu m$, $\gamma = 0.1$ and all the other parameters are kept the same. Figure 5 shows that as the thickness of MTM changes, MSSW normalized frequency loses the bierfringent behaviour. However, it stays unidirectional. That is the waves propagates in $-k_y$. It also changes as $s$ varies.

Figure 7. The normalized frequency as a function of $k_y$ at the limit $w = 0$ at $\gamma = 0.1$ for different values of $s$. 