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This figure shows the WT diagram, AE signal, projected WT-frequency curve and FFT spectrum. While WT identifies the first major frequency at 0.56 MHz and the second major frequency at 0.32 MHz, FFT shows the 1st and 2nd major frequencies of ~0.3 MHz as these frequency components have long duration. This clearly shows that FFT analysis failed to detect the highest characteristic frequency at 0.56 MHz.

In using FFT, it is essential to be cognizant of this shortcoming.

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