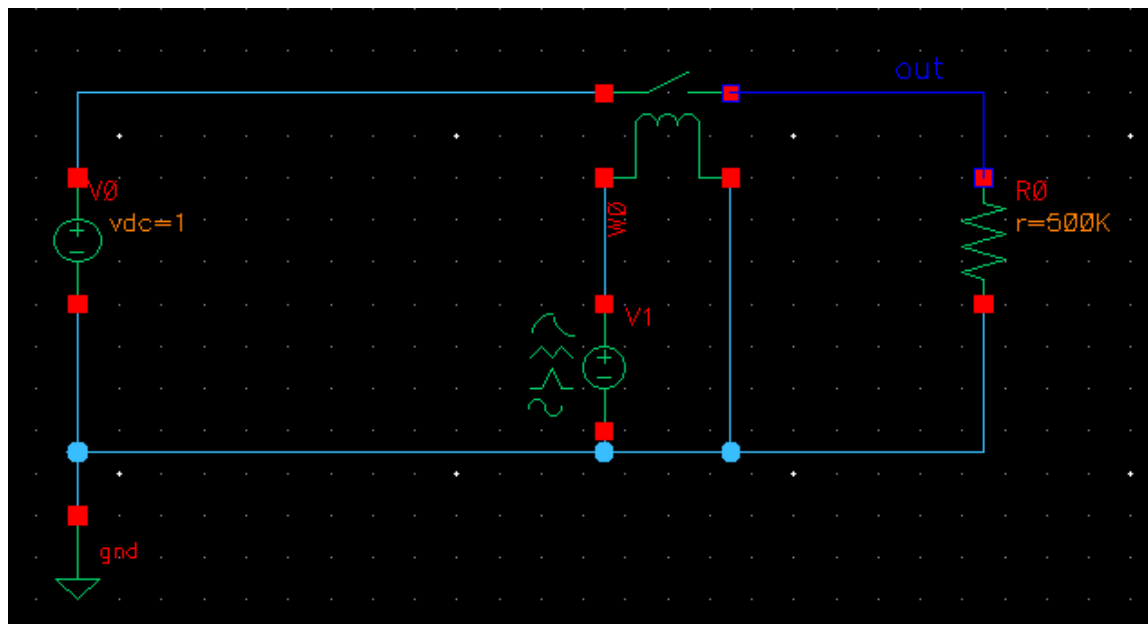


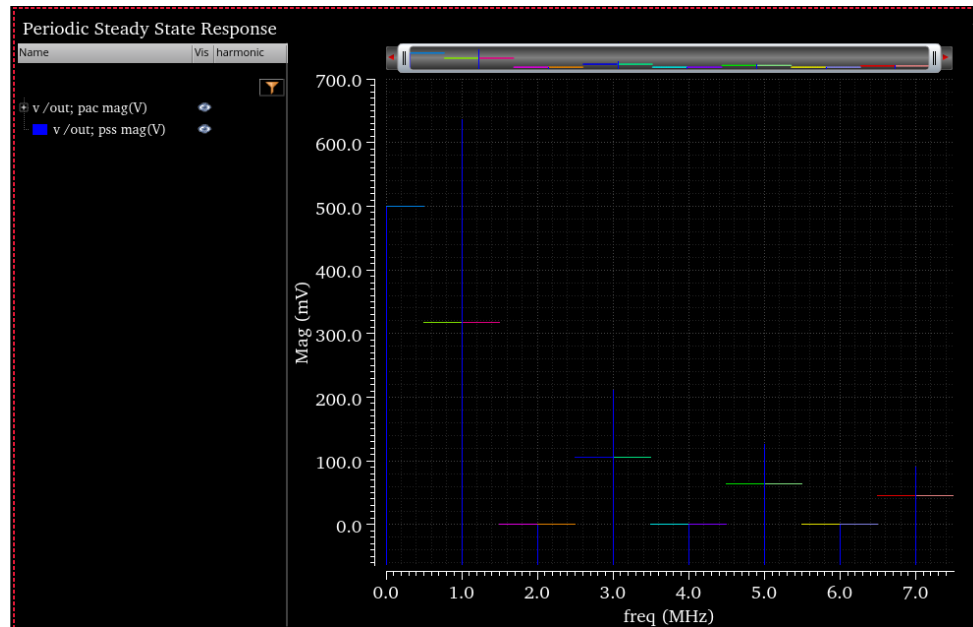
PAC and PSS Simulation Results: Ratio of Sideband to Harmonic Amplitudes [1]



“So I use this simple circuit with a switch that commutate at 1Mhz, and applied a 1V PAC signal on V0 I launched a PSS and then PAC simulation with input sweep from 0 to 500kHz.”

[1] https://community.cadence.com/cadence_technology_forums/f/mixed-signal-design/56859/pac-simulation-results

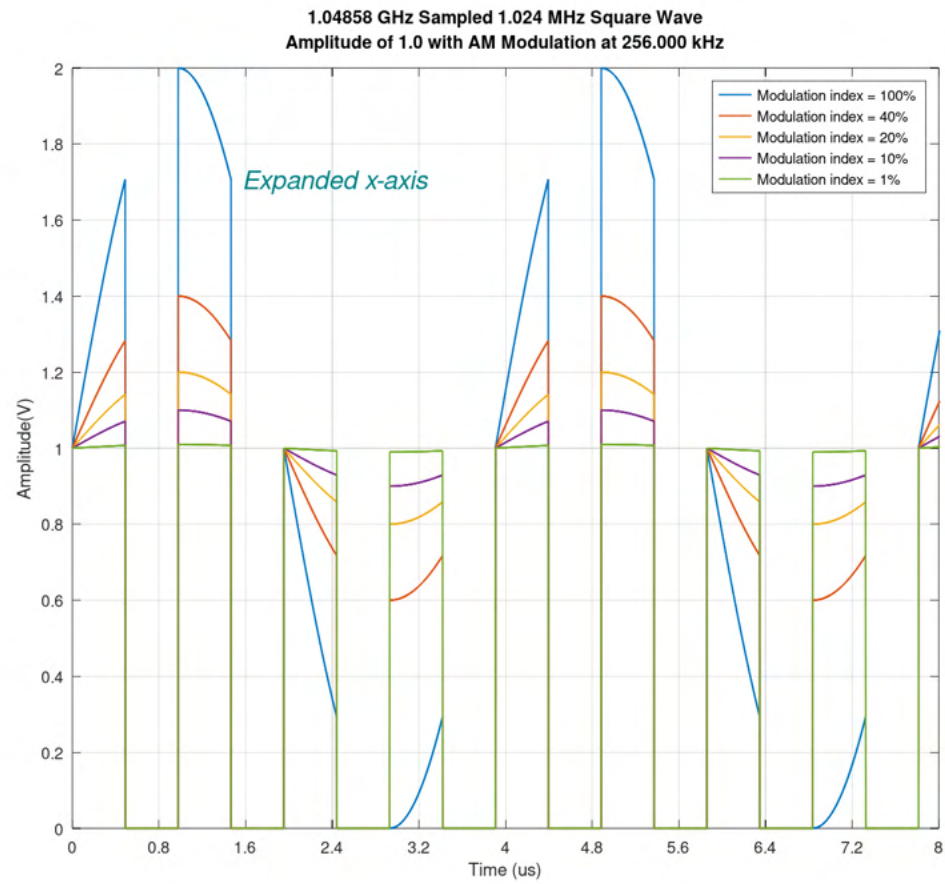
PAC and PSS Simulation Results: Ratio of Sideband to Harmonic Amplitudes: Results



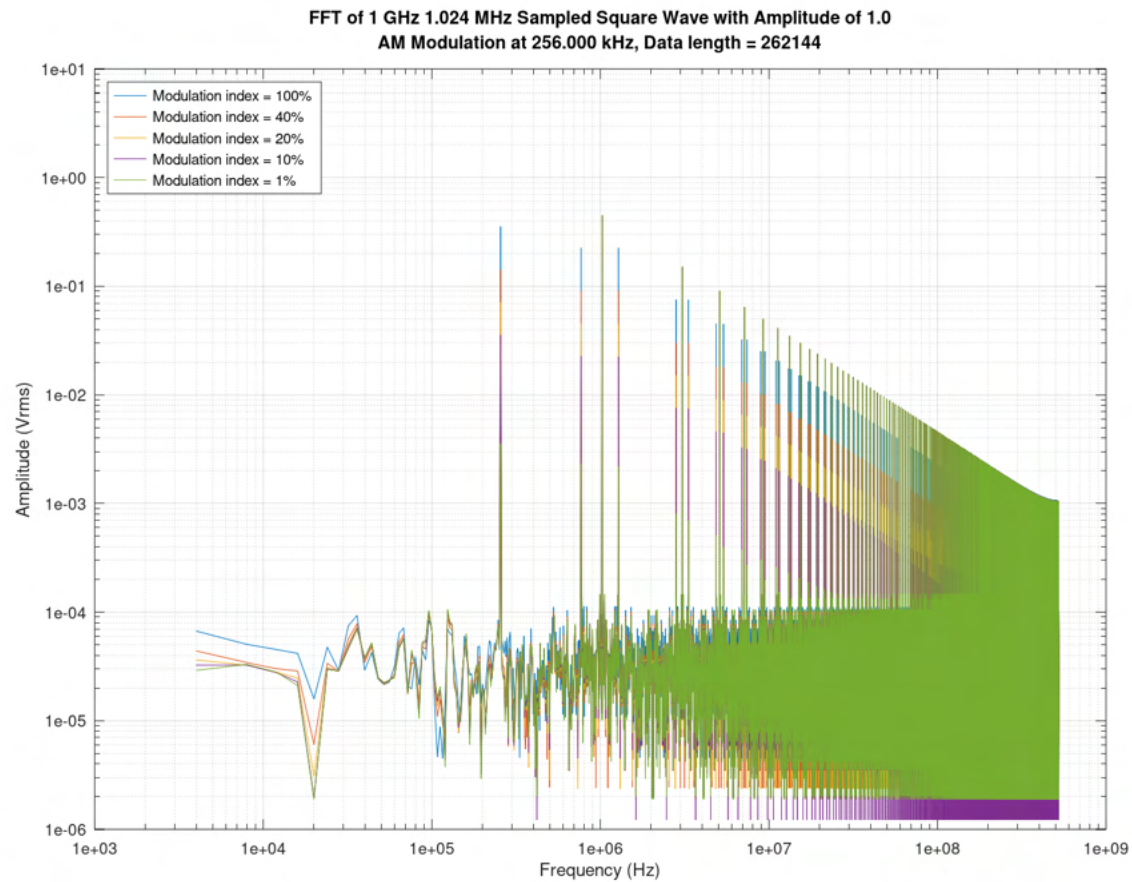
“I was expecting the sidebands at the same magnitude of the squarewave spectrum components, but I see that they have half of the magnitude. WHY this happens? .”

Time Domain Simulation Results: Apply 256 kHz Modulation to 1.024 MHz Commutator Switch

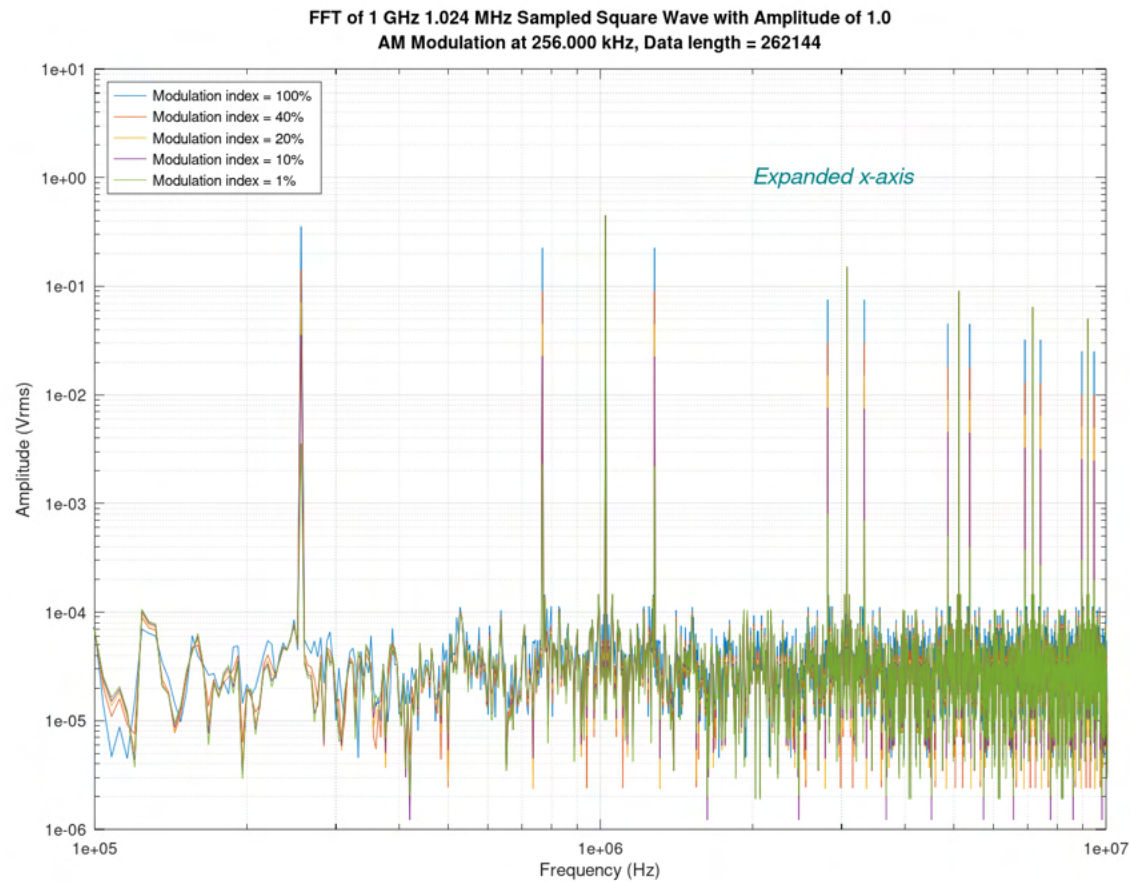
Vary modulation index from 100% to 1%



Frequency Domain Simulation Results: Apply 256 kHz Modulation to 1.024 MHz Commutator Switch Vary modulation index from 100% to 1%



Frequency Domain Simulation Results: Apply 256 kHz Modulation to 1.024 MHz Commutator Switch Vary modulation index from 100% to 1% (*expanded view*)



Frequency Domain Simulation Results: Ratios of Lower and Upper Sidebands to 1.024 MHz Harmonic

