    # set up the radar configs

    radar\_config = FmcwSimpleSequenceConfig(

        frame\_repetition\_time\_s=frame\_rep\_time, # Frame repetition time default 0.2s (frame rate of 5Hz)

        chirp\_repetition\_time\_s=0.6e-3,    # Chirp repetition time (or pulse repetition time) of 1.1ms

        num\_chirps=64,                          # 64 chirps per frame

        tdm\_mimo=False,                         # MIMO disabled

        chirp=FmcwSequenceChirp(

            start\_frequency\_Hz=58\_100\_000\_000,  # start frequency: 59.133931281 GHz

            end\_frequency\_Hz=61\_050\_000\_000,    # end frequency: 62.366068720 GHz

            sample\_rate\_Hz=1e6,                 # ADC sample rate of 1MHz

            num\_samples=512,                   # 64 samples per chirp

            rx\_mask=5,                          # RX antennas 1 and 3 activated

            tx\_mask=1,                          # TX antenna 1 activated

            tx\_power\_level=31,                  # TX power level of 31

            lp\_cutoff\_Hz=500000,                # Anti-aliasing cutoff frequency of 500kHz

            hp\_cutoff\_Hz=80000,                 # 80kHz cutoff frequency for high-pass filter

            if\_gain\_dB=33,                      # 33dB if gain

        )

    )

    sequence = device.create\_simple\_sequence(radar\_config)

    # set the number of antennas

    chirp\_loop = sequence.loop.sub\_sequence.contents

    chirp = chirp\_loop.loop.sub\_sequence.contents.chirp

    chirp.rx\_mask = (1 << num\_rx\_antennas) - 1

    device.set\_acquisition\_sequence(sequence)