

Figure 7. AC FFT for channel 1 (AIN1) using on-board isolated power, a  $\pm 10V$  1kHz sine wave input signal,  $17k\Omega$  input impedance, a 20ksps sample rate, and a Blackman-Harris window.

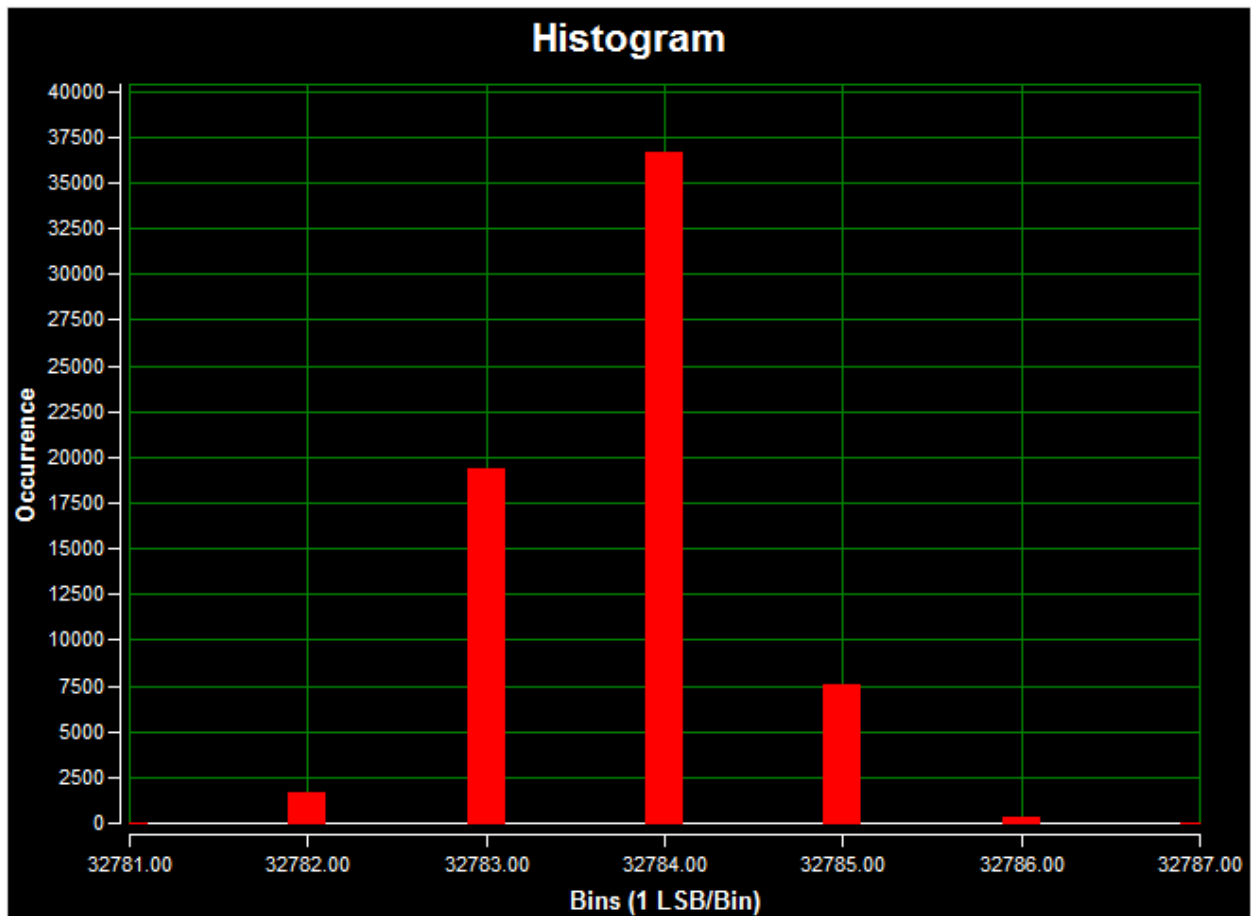


Figure 8. DC histogram for channel 1 (AIN1) using on-board isolated power; a 0V input signal; 17k $\Omega$  input impedance; a 20kps sample rate; 65,536 samples; a code spread of 7 LSBs with 96.95% of the codes falling within the three center LSBs; and a standard deviation of 0.695.

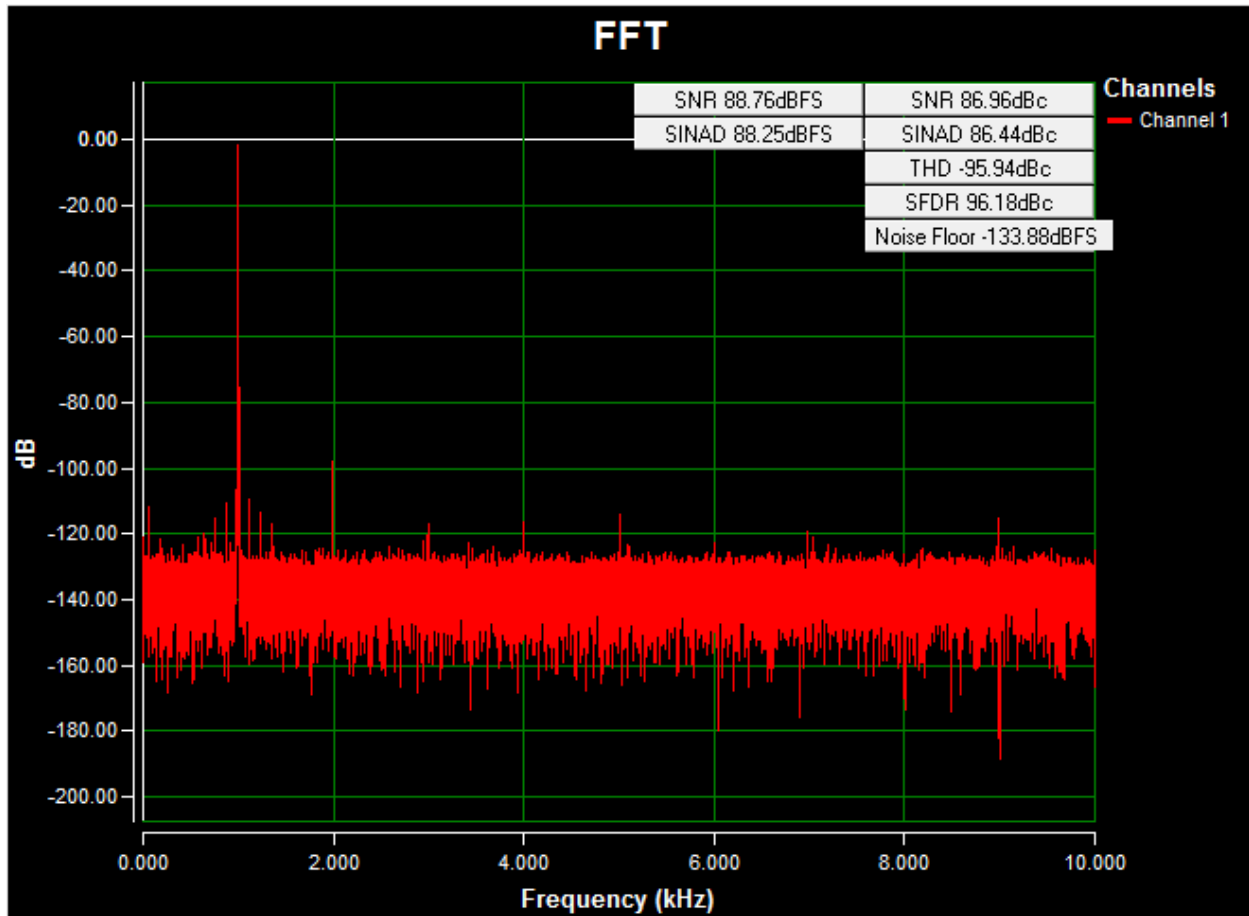


Figure 9. AC FFT for channel 1 (AIN1) using external power, a  $\pm 10V$  1kHz sine wave input signal, 17k $\Omega$  input impedance, a 20ksps sample rate, and a Blackman-Harris window.

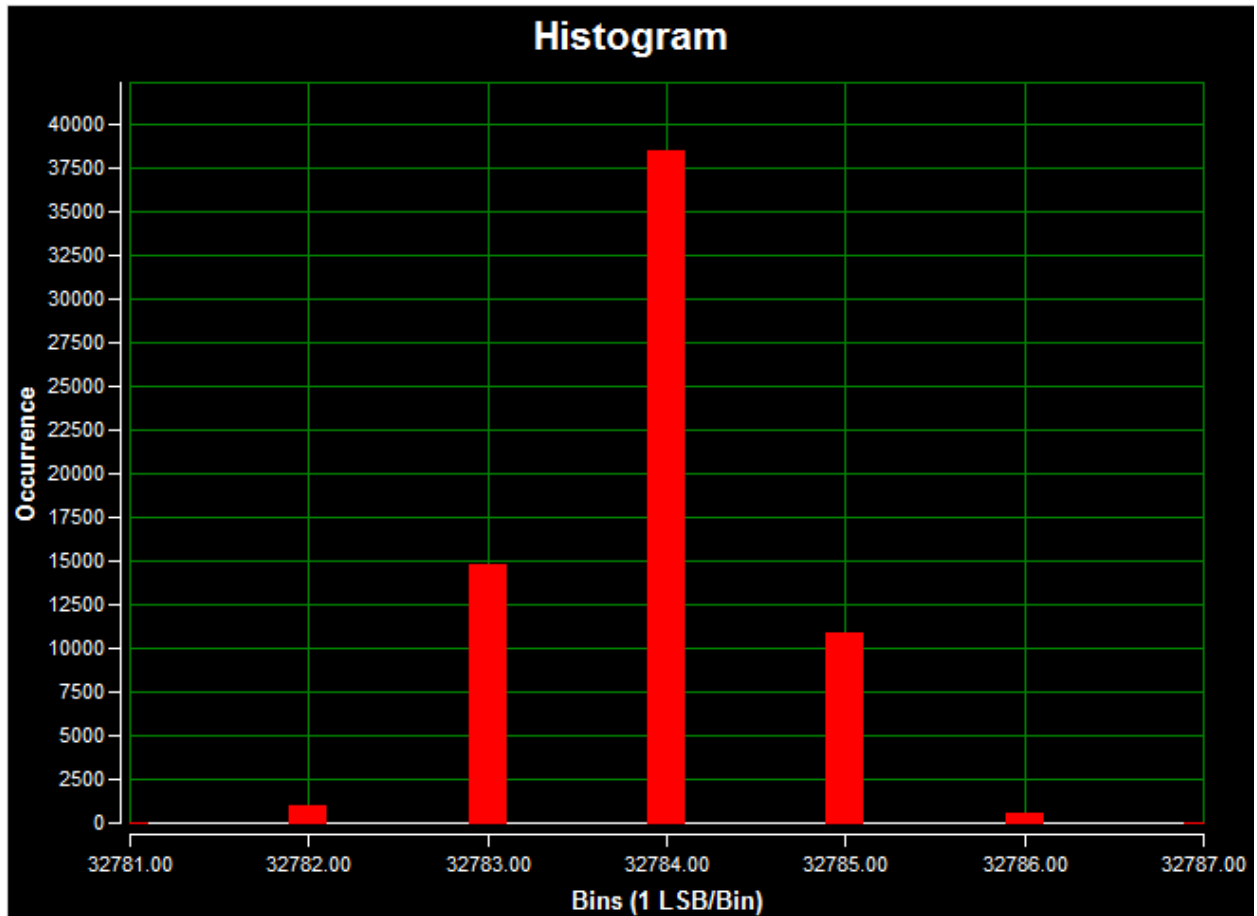


Figure 10. DC histogram for channel 1 (AIN1) using external power; a 0V input signal; 17k $\Omega$  input impedance; a 20ksps sample rate; 65,536 samples; a code spread of 7 LSBs with 97.70% of the codes falling within the three center LSBs; and a standard deviation of 0.691.