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| TNC Testing Form (REV1) | |
| Leaf on the Tree | Amplitude |
| Device Under Test (Testing Tree Number): | 2.3.1.2.2.1 |
| Date: | 10/4/2020 |
| Person(s) Conducting Experiment: | David Cain |
| Signature: |  |
| Experiment Purpose: | The purpose of this experiment is to measure waveform output voltage. Part of our specifications it to be capable of sinking 400mV(ptp) into 1k. |
| Experiment Procedure: | To verify amplitude, the analog output will be connected to a 1k load and measured. In this case, 2 x 2k resistors will be wired in parallel on a bread board, creating 1k of resistance across the terminals. |
| Equipment Settings / Software Settings (w Revision): | The Digilent will be set to record the maximum value of the waveform measured. For general insight, the RMS and minimum were also recorded |
| Testing Diagram / Picture: |  |
| Data Points: | Maximum: 399.19 mV  RMS: 137.11 mV  Minimum: -1.43 mV |
| Pass / Fail: | Pass |
| Interpreted Notes: | The waveform satisfies the 400mV requirement. Potentially some feedback could be used to tune the output during runtime, but this is not necessarily required. |
| Recommendations for Modifications: | None, currently |