

JHU/APL STA Template

- Experiment Point of Contact: Brennan Thews
 - STOP BUZZER: 240-228-1294
- Objective:
 - The objective of this test is to verify link budgets and at a limited level test the multipath effects for this telemetry link.
- Experiment Description: The Johns Hopkins Applied Physics Laboratory (JHUAPL) is a University Associated Research Center (UARC) that conducts basic research for the United States Government (USG)
 - There will be one transmitter and one receiver involved. This will be a point-to-point telemetry link test from a rooftop location pointed down to a location on the ground. The nodes will both be stationary throughout the test.
 - This testing will be conducted M-F between the hours of 0800-1700 not to exceed 10 minutes of operation at a time. During the operation window, the transmission will be continuous.
- Location Details:
 - Transmit: 39°10'04.04"N 76°53'41.98"W
 - Receive: 39°10'09.39"N 76°53'25.37"W
- Emission Details
 - Peak EIRP: 30 dBm
 - Frequency of operation: 1725-1785 MHz
 - Signal Bandwidth: 60 MHz
 - Signal Type/description: Multiple modulated waveforms (BPSK, 4FSK, CW)
- Frequency Request Dates:
 - 10/12/2026 – 04/12/2027



Equipment Description:

- Antenna >6m above ground? No
- Directional? Yes
- Manufacturer: A.H. Systems
- Model #: SAS-571
- Polarization: Linear
- 3-dB Beamwidth: 60° H-pol, 35° V-pol
- Orientation in horizontal plane: 68°
- Orientation in vertical plane: -3.8°