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| Flight # | | | **UMD-2** | | | **3DR Iris** | |
| Date | | | July 17, 2017 | | |
| UAS Platform | | | 3DR Iris | | |
| Call-sign | | | IRIS 1 | | |
| Location | | | AMA Field | | |
| Pilot | | | Ryan Henderson(UMD) | | |
| Visual Observer | | |  | | |
| Target Flight Time | | | 0930 | | |
| Actual T/O Time | | |  | T/O Voltage |  |
| Actual Land Time | | |  | Land Voltage |  |
| Actual Flight Time | | |  | Voltage Delta |  |
| Test Objective | | | Take Images to improve the accuracy of the Neural Network | | |
|  |  | **Action** | | | | | **Remarks** |
|  | 1 | Establish IP Radio Communication with IRIS 1 | | | | |  |
|  | 2 | Takeoff IRIS 1 from Home | | | | |  |
|  | 3 | Raise Altitude to 50’ | | | | |  |
|  | 4 | Fly to Location 4 | | | | | L4:      38°21’54.37”N 76°32’  2.89”W  Fly slowly over the course of 2 minutes  Watch for Loss of Signal with IP Radio |
|  | 5 | Raise Altitude to 350’ | | | | |  |
|  | 6 | Fly to Home | | | | | Home: 38°21’54.20”N 76°31’11.86”W  Fly slowly over the course of 2 minutes  Watch for Loss of Signal with IP Radio |
|  | 7 | Land IRIS 1 | | | | |  |
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| Home: 38°21’54.20”N 76°31’11.86”W  Loiter: 38°21’54.85”N 76°32’14.91”W  L1:      38°21’54.70”N 76°32’12.31”W  L2:      38°21’54.16”N 76°32’10.42”W  L3:      38°21’54.15”N 76°32’  8.45”W  L4:      38°21’54.37”N 76°32’  2.89”W | | | | | | | |