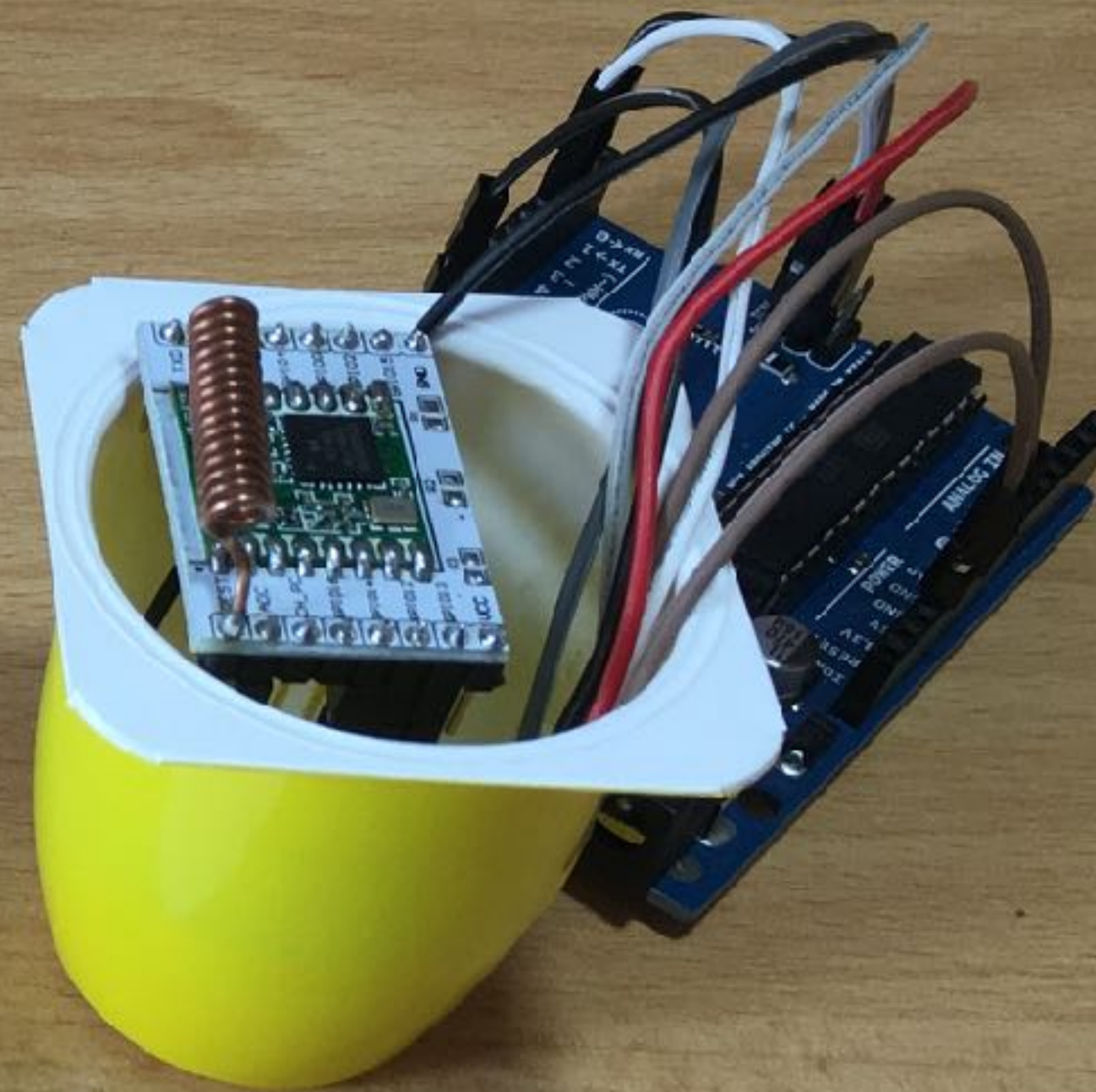
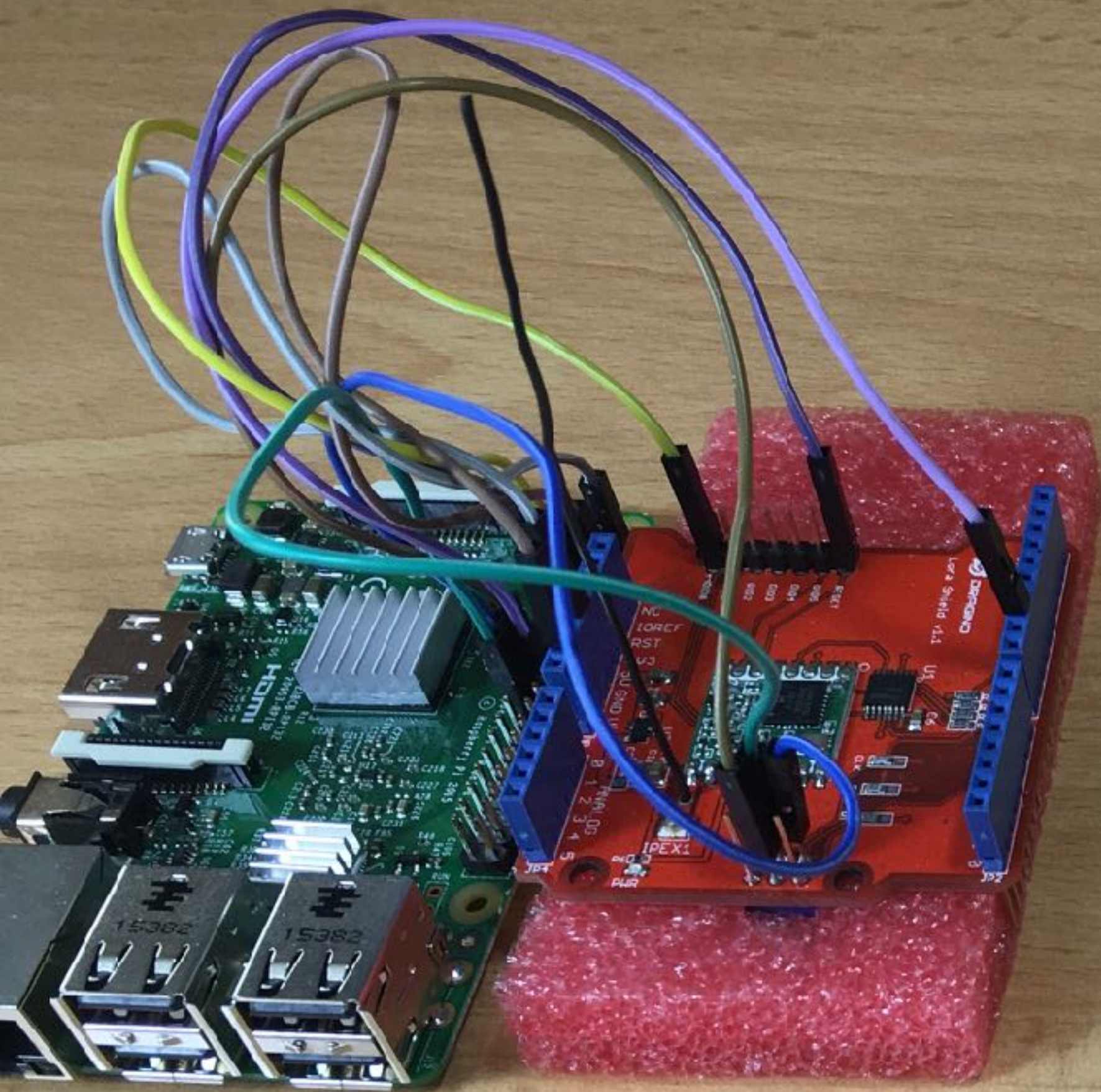


**COIL
ANTENNA**

VS

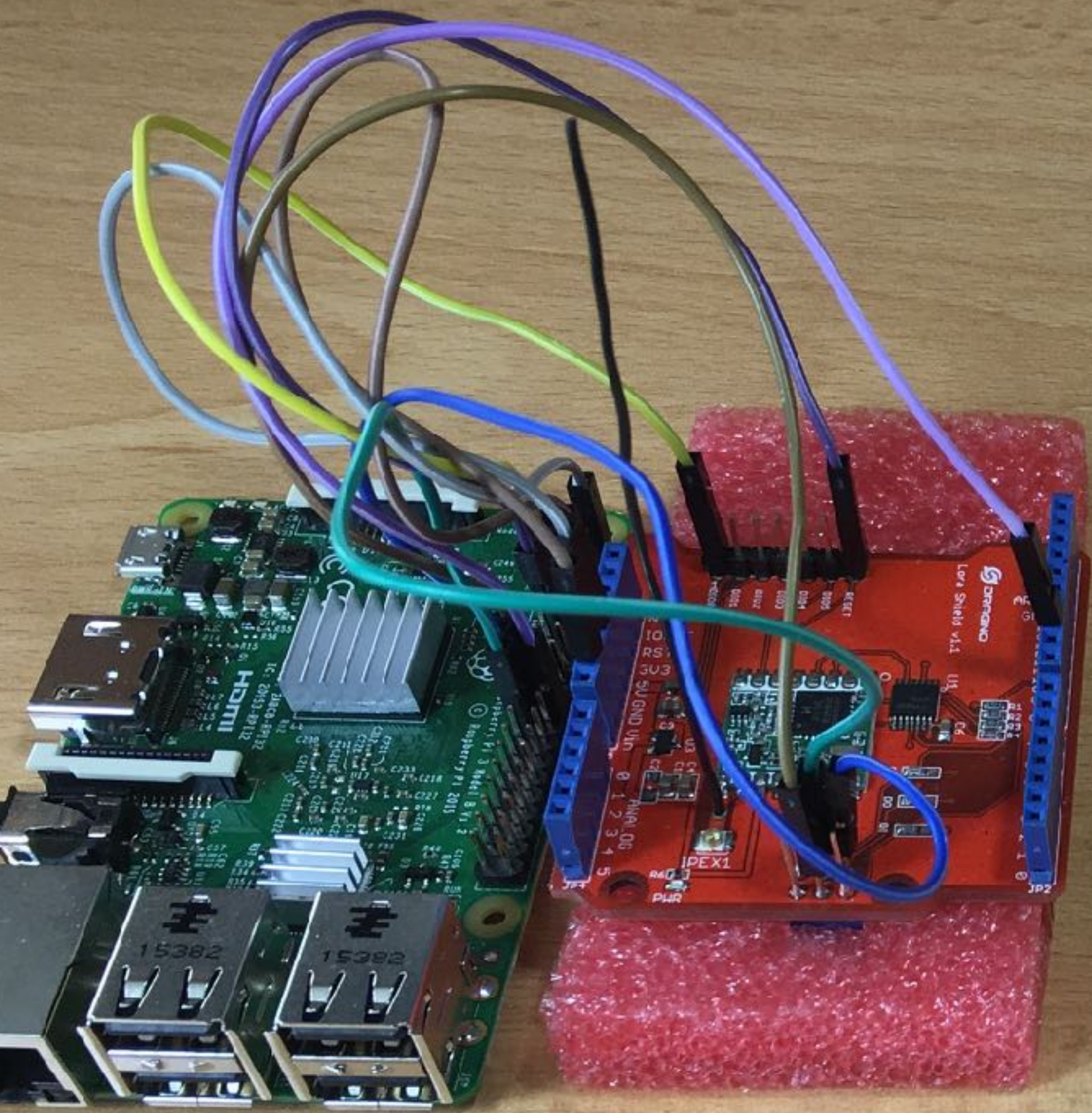
**WIRE
ANTENNA**



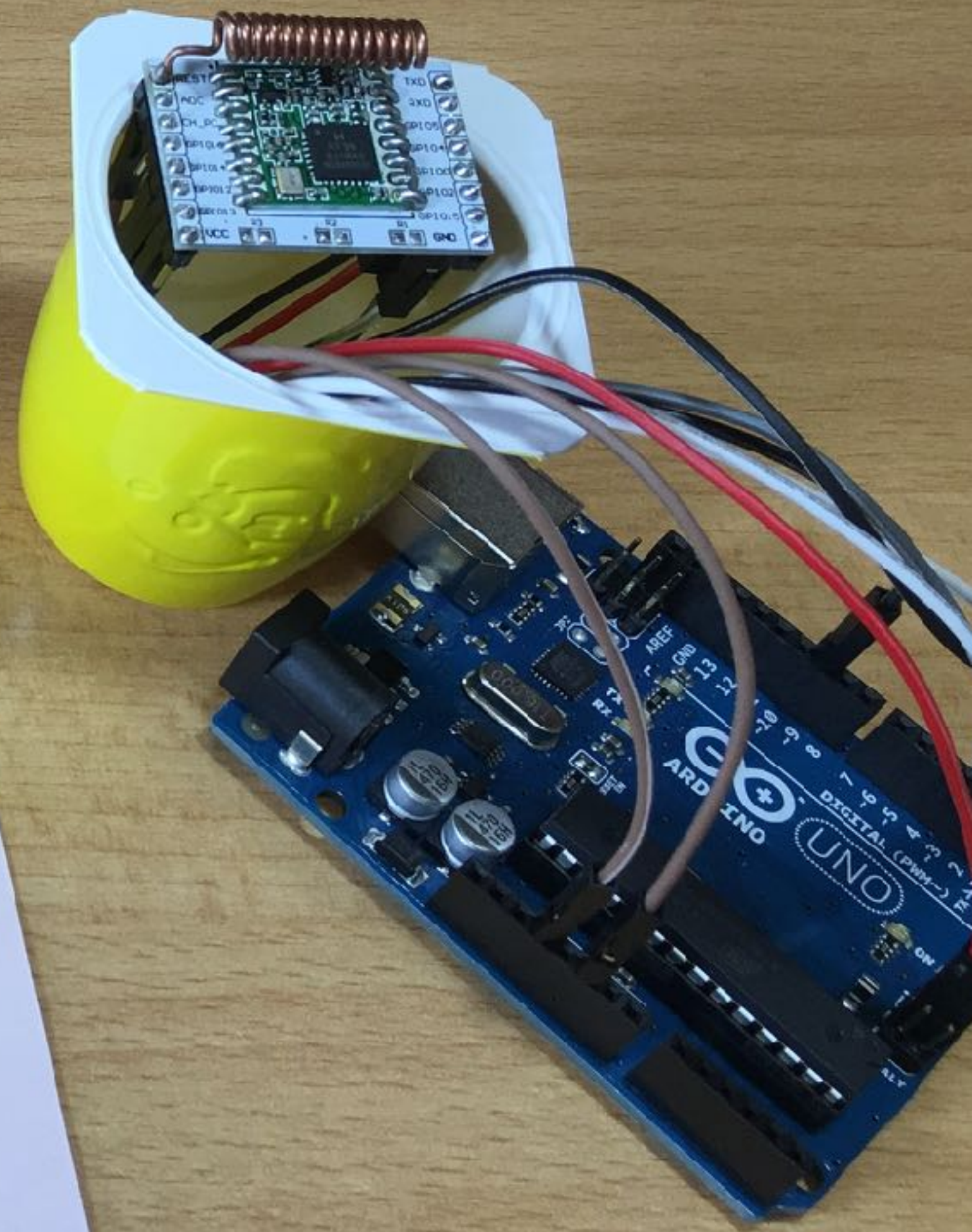
Test A
RSSI = -56



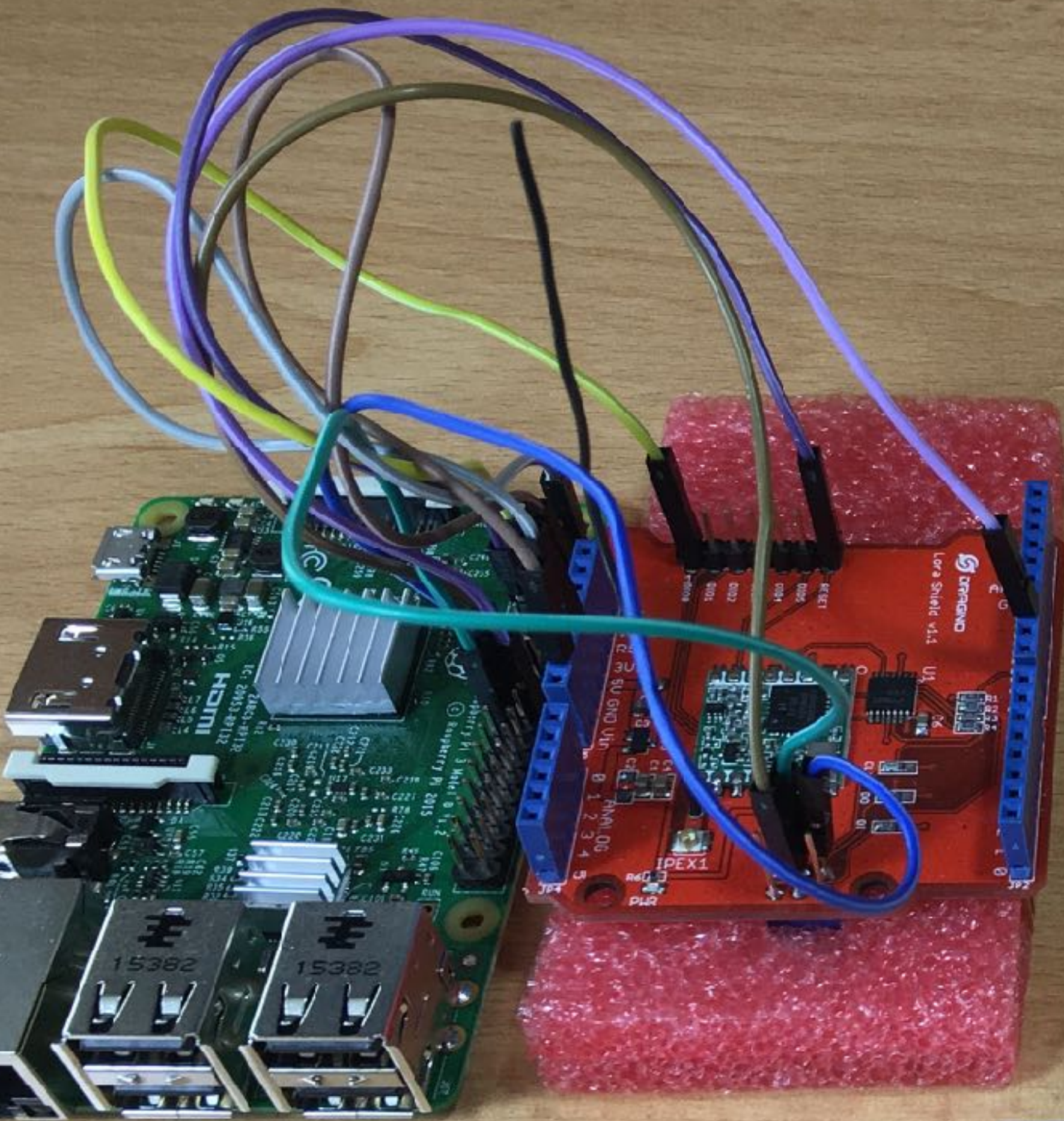
ANTENNA TO ANTENNA
DISTANCE ~5 METER



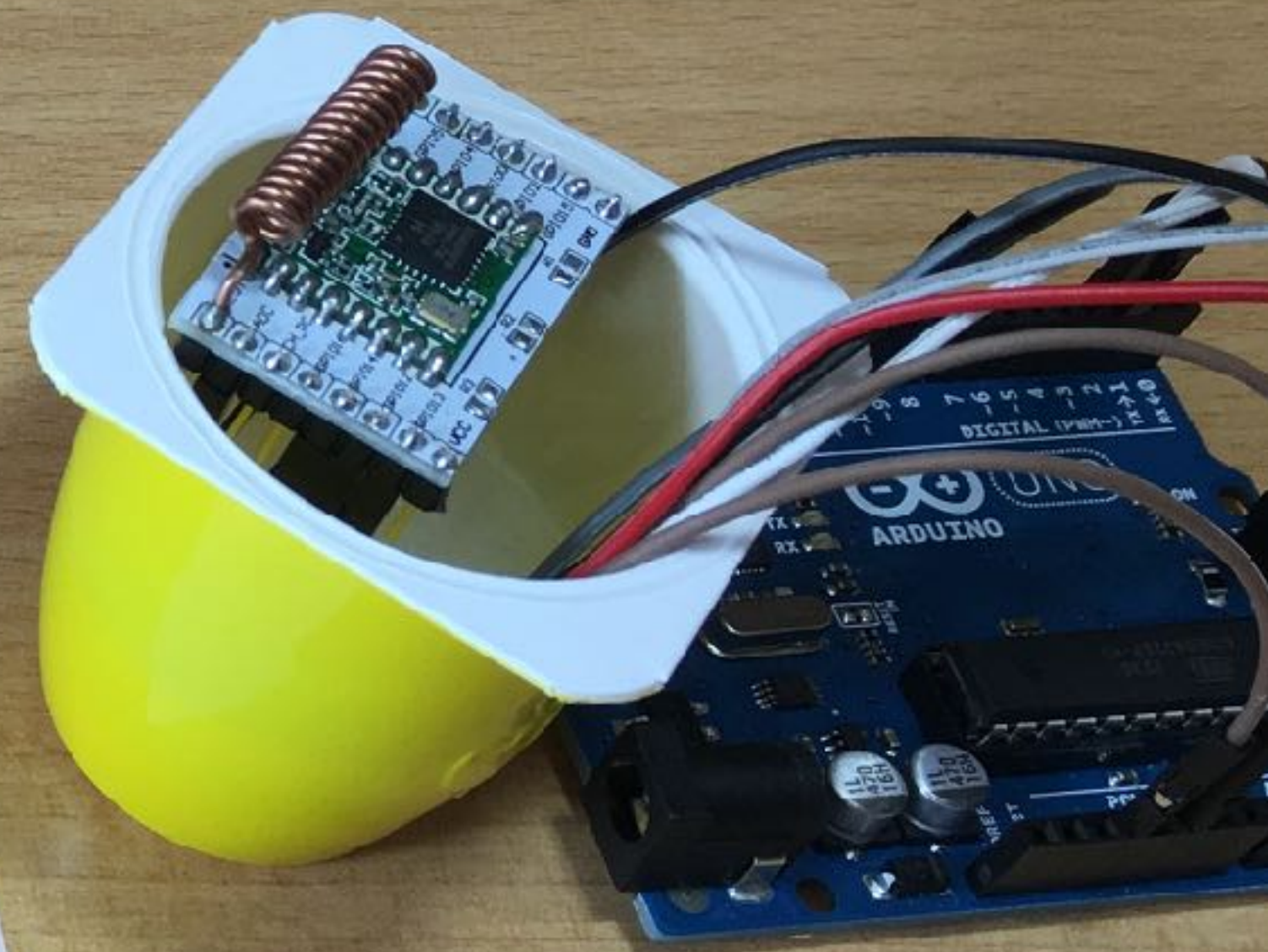
Test B
RSSI = -56



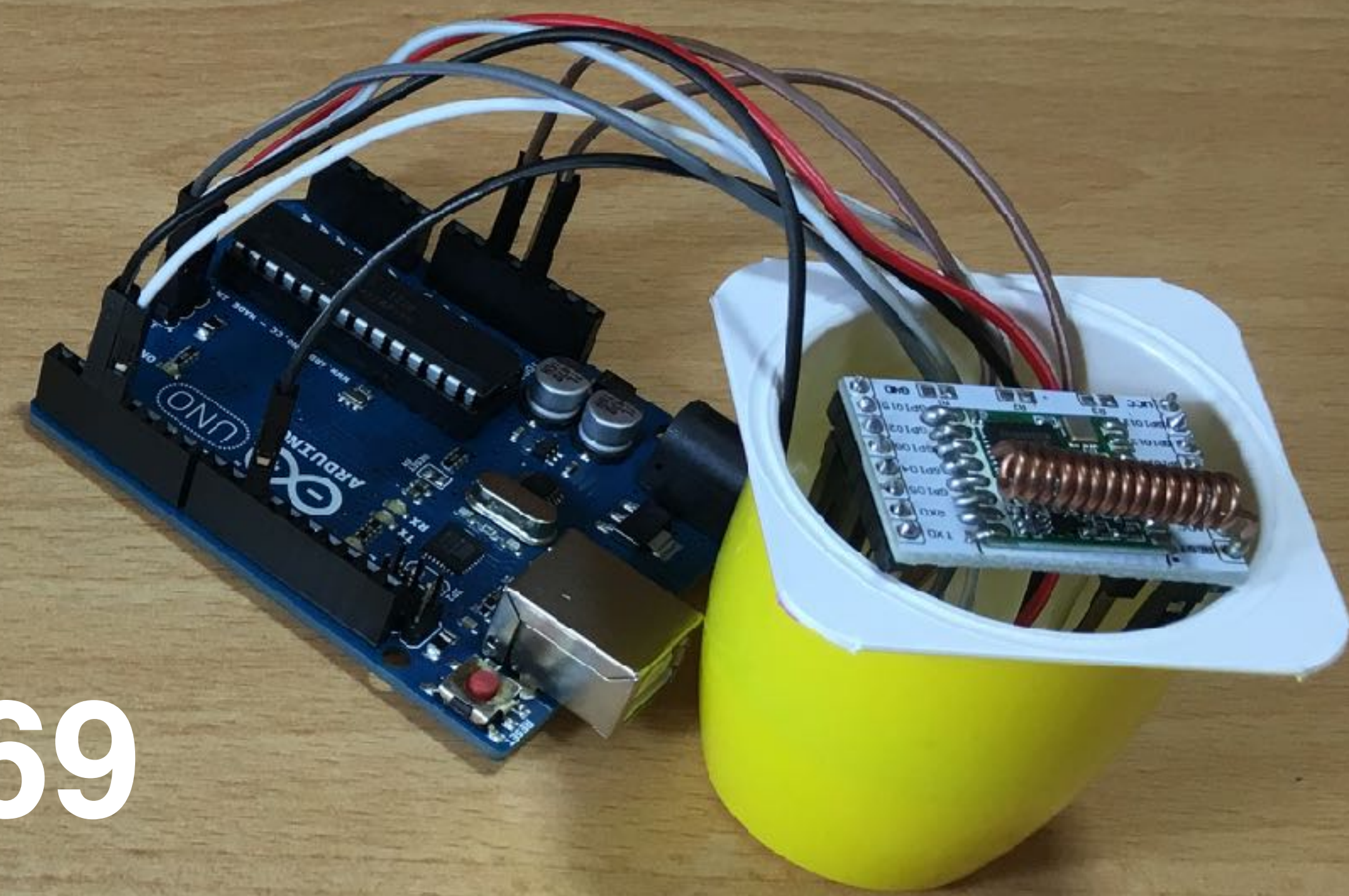
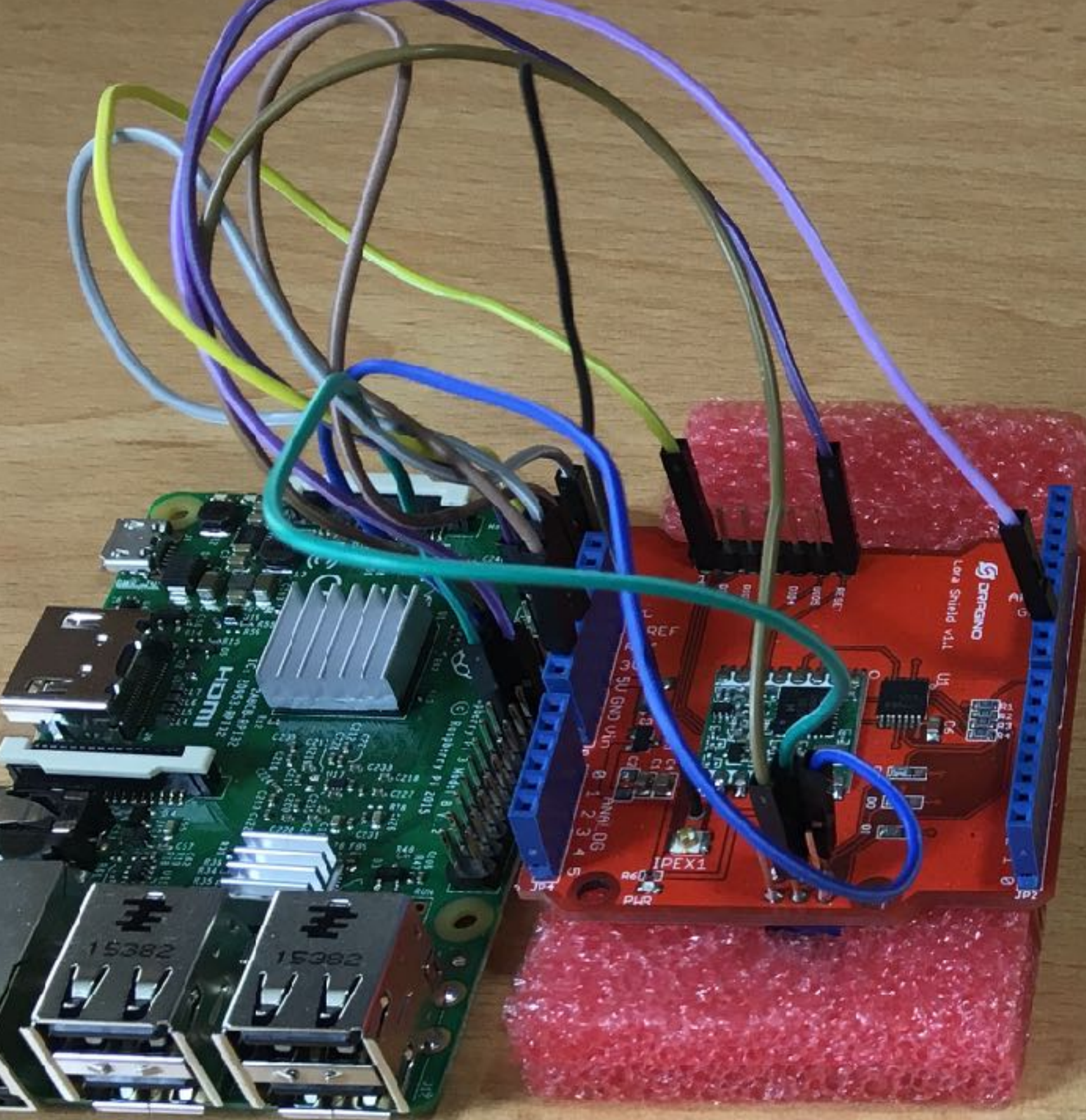
←—————→
ANTENNA TO ANTENNA
DISTANCE ~5 METER



Test C
RSSI = -62

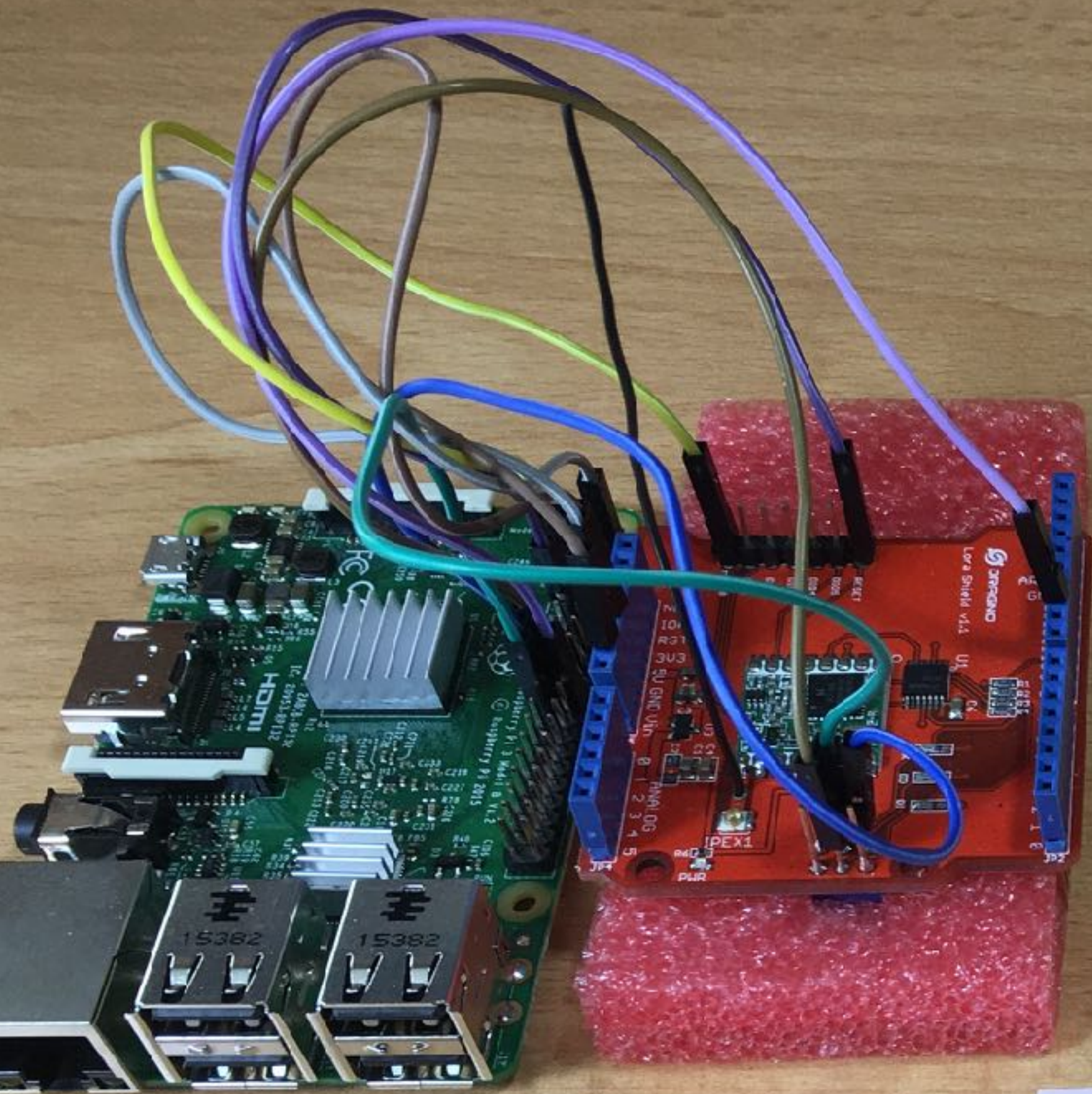


←—————→
ANTENNA TO ANTENNA
DISTANCE ~5 METER

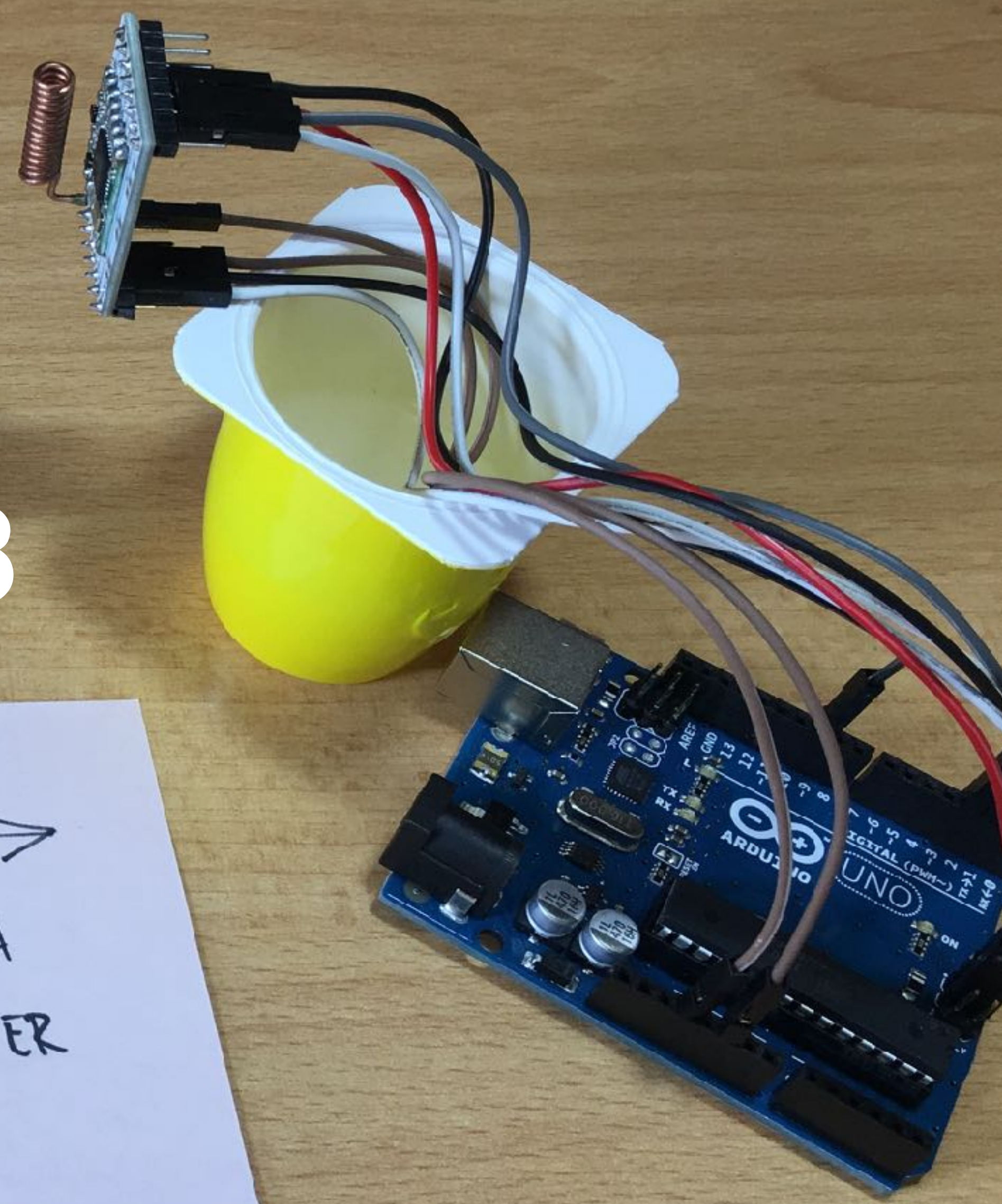


Test D
RSSI = -69

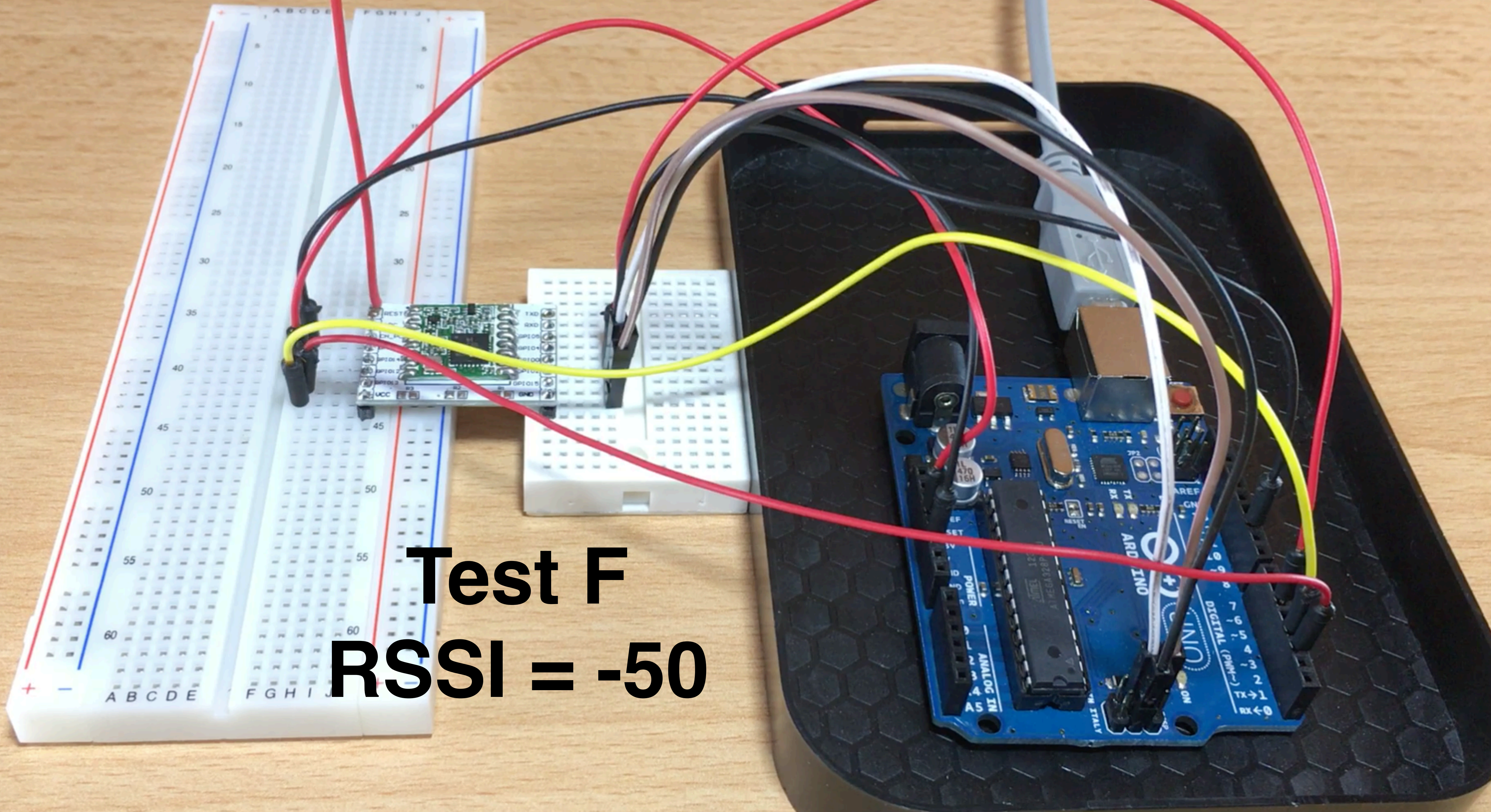
←—————→
ANTENNA TO ANTENNA
DISTANCE ~5 METER



Test E
RSSI = -108



← ANTENNA TO ANTENNA
DISTANCE ~5 METER →



Test F
RSSI = -50

CONCLUSION

Test	Description	RSSI
A	LoRa node with coil antenna perpendicular to Gateway	-56
B	LoRa node with coil antenna in extension to Gateway, solder point near Gateway	-56
C	LoRa node with coil antenna 45 deg with respect to Gateway	-62
D	LoRa node with coil antenna in extension to Gateway, solder point away from Gateway	-67
E	LoRa node with coil antenna in vertical direction	-108
F	LoRa node with wire antenna (86mm, 868Mhz)	-50