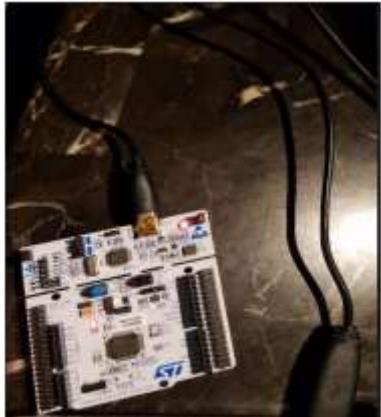


TNC Testing Form (REV1)	
Leaf on the Tree	Validation
Device Under Test (Testing Tree Number):	2.2.2.1.1
Date:	11/1/20
Person(s) Conducting Experiment:	Kobe Keopraseuth
Signature:	
Experiment Purpose:	The purpose of this experiment is to validate that the microcontroller will output the AX.25 (excluding the flags) in correct order.
Experiment Procedure:	I will display how the AX.25 packet will be sent to the radio, using a serial monitor.
Equipment Settings / Software Settings (w Revision):	We will be using Rizwan's software to send a KISS packet over UART, and we will be using visual studio's serial monitor to display the AX.25 packet's bit sequence.
Testing Diagram / Picture:	
Data Points:	<pre> Start flag      = 1  1  0  0  0  0  0  0  0 Address Field 1 = 1  0  0  0  1  0  0  0 Address Field 2 = 1  0  0  0  0  0  1  0 Address Field 3 = 1  0  1  0  1  1  0  0 Address Field 4 = 1  0  0  1  0  0  1  0 Address Field 5 = 1  0  0  0  1  0  0  0 Address Field 6 = 0  1  0  0  0  0  0  0 Address Field 7 = 1  1  1  0  0  0  1  0 Address Field 8 = 1  0  0  1  0  1  1  0 Address Field 9 = 1  0  0  1  1  1  1  0 Address Field 10 = 1  0  0  0  0  1  0  0 Address Field 11 = 1  0  0  0  1  0  1  0 Address Field 12 = 0  1  0  0  0  0  0  0 Address Field 13 = 0  1  0  0  0  0  0  0 Address Field 14 = 0  1  1  0  0  1  0  1 Control Field   = 0  0  0  0  0  0  1  1 PID Field       = 1  1  1  1  0  0  0  0 Info Field 1    = 0  1  1  1  1  1  1  0 Info Field 2    = 0  1  1  1  1  1  1  0 Info Field 3    = 0  1  1  1  1  1  1  0 Info Field 4    = 0  1  1  1  1  1  1  0 Stop flag       = 1  1  0  0  0  0  0  0 </pre> <p><b><u>Bitnary Bit stream of packet</u></b></p>

	<div>Printing AX25_PACKET being sent to radio Address Field 1 = 1 0 1 0 0 1 1 0 Address Field 2 = 0 0 0 0 0 0 1 0 Address Field 3 = 0 0 0 0 0 0 1 0 Address Field 4 = 0 1 0 1 0 0 0 1 Address Field 5 = 0 0 1 0 0 0 0 1 Address Field 6 = 0 1 1 1 1 0 0 1 Address Field 7 = 0 1 1 0 1 0 0 1 Address Field 8 = 0 1 0 0 0 1 1 1 Address Field 9 = 0 0 0 0 0 0 1 0 Address Field 10 = 0 0 0 1 0 0 0 1 Address Field 11 = 0 1 0 0 1 0 0 1 Address Field 12 = 0 0 1 1 0 1 0 1 Address Field 13 = 0 1 0 0 0 0 0 1 Address Field 14 = 0 0 0 1 0 0 0 1 Address Field extra = Control Field = 1 1 0 0 0 0 0 0 PID Field = 0 0 0 0 1 1 1 1 Info Field = 0 1 1 1 1 1 0 1 0 0 1 1 1 1 1 0 1 0 0 1 1 1 1 0 1 0 FCS Field = 1 1 1 1 1 0 0 1 1 0 1 0 0 0 0 0 0</div> <div>Binary Bitstream of how AX.25 packet will be sent to radio</div>
Pass / Fail:	Pass
Interpreted Notes:	As shown on the serial monitor, the AX.25's bits are in the correct order. FCS field is sent MSB first and other fields are sent LSB first. After 5 contiguous ones then a bit stuffed zero is added after.
Recommendations for Modifications:	None