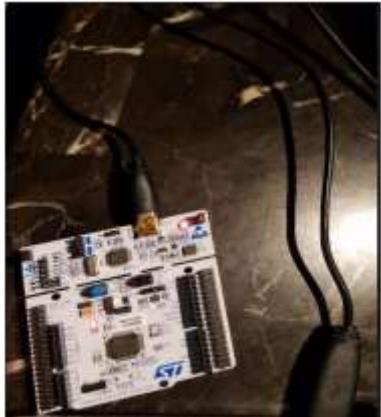


TNC Testing Form (REV1)	
Leaf on the Tree	Packet Construction
Device Under Test (Testing Tree Number):	2.2.2.1
Date:	11/1/20
Person(s) Conducting Experiment:	Kobe Keopraseuth
Signature:	
Experiment Purpose:	The purpose of this experiment is to validate that the microcontroller will output the AX.25 (excluding 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 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><u>Bitnary Bit stream of packet</u></p>

	<div>Printing AX25_PACKET being sent to radio</div> <div>Address Field 1 = 1 0 1 0 0 1 1 0</div> <div>Address Field 2 = 0 0 0 0 0 0 1 0</div> <div>Address Field 3 = 0 0 0 0 0 0 1 0</div> <div>Address Field 4 = 0 1 0 1 0 0 0 1</div> <div>Address Field 5 = 0 0 1 0 0 0 0 1</div> <div>Address Field 6 = 0 1 1 1 1 0 0 1</div> <div>Address Field 7 = 0 1 1 0 1 0 0 1</div> <div>Address Field 8 = 0 1 0 0 0 1 1 1</div> <div>Address Field 9 = 0 0 0 0 0 0 1 0</div> <div>Address Field 10 = 0 0 0 1 0 0 0 1</div> <div>Address Field 11 = 0 1 0 0 1 0 0 1</div> <div>Address Field 12 = 0 0 1 1 0 1 0 1</div> <div>Address Field 13 = 0 1 0 0 0 0 0 1</div> <div>Address Field 14 = 0 0 0 1 0 0 0 1</div> <div>Address Field extra =</div> <div>Control Field = 1 1 0 0 0 0 0 0</div> <div>PID Field = 0 0 0 0 1 1 1 1</div> <div>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</div> <div>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