

Table 1 – Initialization Function Test

Test Writer:		Aaron Zukley				
Test Case Name:		LCD Initialization Function	Test ID #:			Driver Test
Description:		Verify operation of the initialization function for the LCD	Type:			White Box
					X	Black Box
Tester Information						
Name of Tester:			Date:			
Hardware Ver:		1.0	Time:			
Setup:		Connect STK600 Port_K_ to the LCD board input pins				
Test	(Test Variable)	Expected Result	Pass	Fail	N/A	Comments
1	4 bit Mode	Test messages can be written		X		4it mode is not functional, seems to be an issues with the sending of the upper and then the lower data bits
2	8 Bit Mode	Test messages can be written	X			
3	Display On	Display is initialized on setting the #define to 1	X			
4	2 Line Mode ON	Test message writes to 2 lines	X			
5	Cursors	Cursors Initialized On	X			
6	Cursors Blink Mode	Cursor Blinks on display	X			
7	Increment Mode	When writing a message the message writes from left to right	X			
8	Entire Shift Mode	When writing a message the entire display moves rather than the cursor		X		Initialization of this mode did not function as expected. LCD is writing the desired text in a reverse order. Words are read right to left. Functionality not as expected. Further development of this feature is needed.
Overall Test Result:			X			Function is listed as a pass, because the operation of the LCD is not inhibited by the entire shift feature not being completed at this stage.

Table 2 – Write Command Function Test

Test Writer:		Aaron Zukley				
Test Case Name:		LCD Initialization Function	Test ID #:			Driver Test
Description:		Verify operation of the write command function for the LCD	Type:			White Box
					X	Black Box
Tester Information						
Name of Tester:			Date:			
Hardware Ver:		1.0	Time:			
Setup:		Connect STK600 Port_X_ to the LCD board input pins				
Test	(Test Variable)	Expected Result	Pass	Fail	N/A	Comments
1	Write Command	functions such as cursors on/off, blink and display can be enabled/disabled	X			
2	Write Data	Test message is displayed	X			
Overall Test Result:			X			Function tested and passed all tests as expected