

Total Items	49
Pass Items	49
Fail Items	0
NY Items	

Section	Main Title	Description
1	Haft-duplex transmission (lhs ACTIVE, rhs PASSIVE)	
1.1	5 bit data	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent passive</li> <li>- Set data_width = 5 in uart_lhs_config</li> <li>- Randomize the values of other items in uart_lhs_config.</li> <li>- Set the values of uart_rhs_config to be the same as uart_lhs_config.</li> <li>- Transfer 3 frame data to lhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> <li>-</li> </ul> <p><b>Pass condition:</b> TX signal matches RX.</p>
1.2	6 bit data	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent passive</li> <li>- Set data_width = 6 in uart_lhs_config</li> <li>- Randomize the values of other items in uart_lhs_config.</li> <li>- Set the values of uart_rhs_config to be the same as uart_lhs_config.</li> <li>- Transfer 3 frame data to lhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> TX signal matches RX.</p>
1.3	7 bit data	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent passive</li> <li>- Set data_width = 7 in uart_lhs_config</li> <li>- Randomize the values of other items in uart_lhs_config.</li> <li>- Set the values of uart_rhs_config to be the same as uart_lhs_config.</li> <li>- Transfer 3 frame data to lhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> TX signal matches RX.</p>

1.4	8 bit data	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent passive</li> <li>- Set data_width = 8 in uart_lhs_config</li> <li>- Randomize the values of other items in uart_lhs_config.</li> <li>- Set the values of uart_rhs_config to be the same as uart_lhs_config.</li> <li>- Transfer 3 frame data to lhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> TX signal matches RX.</p>
1.5	9 bit data	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent passive</li> <li>- Set data_width = 9 in uart_lhs_config</li> <li>- Randomize the values of other items in uart_lhs_config with parity type is NONE</li> <li>- Set the values of uart_rhs_config to be the same as uart_lhs_config.</li> <li>- Transfer 3 frame data to lhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> TX signal matches RX.</p>
1.6	Even parity	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent passive</li> <li>- Set parity type is EVEN in uart_lhs_config</li> <li>- Randomize the values of other items in uart_lhs_config</li> <li>- Set the values of uart_rhs_config to be the same as uart_lhs_config.</li> <li>- Transfer 3 frame data to lhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> TX signal matches RX.</p>
1.7	Odd parity	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent passive</li> <li>- Set parity type is ODD in uart_lhs_config</li> <li>- Randomize the values of other items in uart_lhs_config</li> <li>- Set the values of uart_rhs_config to be the same as uart_lhs_config.</li> <li>- Transfer 3 frame data to lhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> TX signal matches RX.</p>

1.8	1 stop bit	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent passive</li> <li>- Set stop width = 1 in uart_lhs_config</li> <li>- Randomize the values of other items in uart_lhs_config</li> <li>- Set the values of uart_rhs_config to be the same as uart_lhs_config.</li> <li>- Transfer 3 frame data to lhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> TX signal matches RX.</p>
1.9	2 stop bit	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent passive</li> <li>- Set stop width = 2 in uart_lhs_config</li> <li>- Randomize the values of other items in uart_lhs_config</li> <li>- Set the values of uart_rhs_config to be the same as uart_lhs_config.</li> <li>- Transfer 3 frame data to lhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> TX signal matches RX.</p>
1.10	4800 baud rate	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent passive</li> <li>- Set baudrate = 4800 in uart_lhs_config</li> <li>- Randomize the values of other items in uart_lhs_config</li> <li>- Set the values of uart_rhs_config to be the same as uart_lhs_config.</li> <li>- Transfer 3 frame data to lhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> TX signal matches RX. Baudrate in waveform = 4800</p>
1.11	9600 baud rate	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent passive</li> <li>- Set baudrate = 9600 in uart_lhs_config</li> <li>- Randomize the values of other items in uart_lhs_config</li> <li>- Set the values of uart_rhs_config to be the same as uart_lhs_config.</li> <li>- Transfer 3 frame data to lhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> TX signal matches RX. Baudrate in waveform = 9600</p>

1.12	19200 baud rate	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent passive</li> <li>- Set baudrate = 19200 in uart_lhs_config</li> <li>- Randomize the values of other items in uart_lhs_config</li> <li>- Set the values of uart_rhs_config to be the same as uart_lhs_config.</li> <li>- Transfer 3 frame data to lhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> TX signal matches RX. Baudrate in waveform = 19200</p>
1.13	57600 baud rate	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent passive</li> <li>- Set baudrate = 57600 in uart_lhs_config</li> <li>- Randomize the values of other items in uart_lhs_config</li> <li>- Set the values of uart_rhs_config to be the same as uart_lhs_config.</li> <li>- Transfer 3 frame data to lhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> TX signal matches RX. Baudrate in waveform = 57600</p>
1.14	115200 baud rate	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent passive</li> <li>- Set baudrate = 115200 in uart_lhs_config</li> <li>- Randomize the values of other items in uart_lhs_config</li> <li>- Set the values of uart_rhs_config to be the same as uart_lhs_config.</li> <li>- Transfer 3 frame data to lhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> TX signal matches RX. Baudrate in waveform = 115200</p>

1.15	Custom baud rate	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent passive</li> <li>- Set baudrate is random in uart_lhs_config</li> <li>- Randomize the values of other items in uart_lhs_config</li> <li>- Set the values of uart_rhs_config to be the same as uart_lhs_config.</li> <li>- Transfer 3 frame data to lhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> TX signal matches RX. Baudrate in waveform matches with custom baudrate</p>
2	Haft-dulex transmission (lhs PASSIVE, rhs ACTIVE)	
2.1	5 bit data	<ul style="list-style-type: none"> <li>- Set rhs agent active, lhs agent passive</li> <li>- Set data_width = 5 in uart_rhs_config</li> <li>- Randomize the values of other items in uart_rhs_config.</li> <li>- Set the values of uart_lhs_config to be the same as uart_rhs_config.</li> <li>- Transfer 3 frame data to rhs_tx</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> TX signal matches RX.</p>
2.2	6 bit data	<ul style="list-style-type: none"> <li>- Set rhs agent active, lhs agent passive</li> <li>- Set data_width = 6 in uart_rhs_config</li> <li>- Randomize the values of other items in uart_rhs_config.</li> <li>- Set the values of uart_lhs_config to be the same as uart_rhs_config.</li> <li>- Transfer 3 frame data to rhs_tx</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> TX signal matches RX.</p>
2.3	7 bit data	<ul style="list-style-type: none"> <li>- Set rhs agent active, lhs agent passive</li> <li>- Set data_width = 7 in uart_rhs_config</li> <li>- Randomize the values of other items in uart_rhs_config.</li> <li>- Set the values of uart_lhs_config to be the same as uart_rhs_config.</li> <li>- Transfer 3 frame data to rhs_tx</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> TX signal matches RX.</p>

2.4	8 bit data	<ul style="list-style-type: none"> <li>- Set rhs agent active, lhs agent passive</li> <li>- Set data_width = 8 in uart_rhs_config</li> <li>- Randomize the values of other items in uart_rhs_config.</li> <li>- Set the values of uart_lhs_config to be the same as uart_rhs_config.</li> <li>- Transfer 3 frame data to rhs_tx</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> TX signal matches RX.</p>
2.5	9 bit data	<ul style="list-style-type: none"> <li>- Set rhs agent active, lhs agent passive</li> <li>- Set data_width = 9 in uart_rhs_config</li> <li>- Randomize the values of other items in uart_rhs_config with parity type is NONE</li> <li>- Set the values of uart_lhs_config to be the same as uart_rhs_config.</li> <li>- Transfer 3 frame data to rhs_tx</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> TX signal matches RX.</p>
2.6	Even parity	<ul style="list-style-type: none"> <li>- Set rhs agent active, lhs agent passive</li> <li>- Set parity type is EVEN in uart_rhs_config</li> <li>- Randomize the values of other items in uart_rhs_config</li> <li>- Set the values of uart_lhs_config to be the same as uart_rhs_config.</li> <li>- Transfer 3 frame data to rhs_tx</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> TX signal matches RX.</p>
2.7	Odd parity	<ul style="list-style-type: none"> <li>- Set rhs agent active, lhs agent passive</li> <li>- Set parity type is ODD in uart_rhs_config</li> <li>- Randomize the values of other items in uart_rhs_config</li> <li>- Set the values of uart_lhs_config to be the same as uart_rhs_config.</li> <li>- Transfer 3 frame data to rhs_tx</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> TX signal matches RX.</p>

2.8	1 stop bit	<ul style="list-style-type: none"> <li>- Set rhs agent active, lhs agent passive</li> <li>- Set stop width = 1 in uart_rhs_config</li> <li>- Randomize the values of other items in uart_rhs_config</li> <li>- Set the values of uart_lhs_config to be the same as uart_rhs_config.</li> <li>- Transfer 3 frame data to rhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> TX signal matches RX.</p>
2.9	2 stop bit	<ul style="list-style-type: none"> <li>- Set rhs agent active, lhs agent passive</li> <li>- Set stop width = 2 in uart_rhs_config</li> <li>- Randomize the values of other items in uart_rhs_config</li> <li>- Set the values of uart_lhs_config to be the same as uart_rhs_config.</li> <li>- Transfer 3 frame data to rhs_tx</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> TX signal matches RX.</p>
2.10	4800 baud rate	<ul style="list-style-type: none"> <li>- Set rhs agent active, lhs agent passive</li> <li>- Set baudrate = 4800 in uart_rhs_config</li> <li>- Randomize the values of other items in uart_rhs_config</li> <li>- Set the values of uart_lhs_config to be the same as uart_rhs_config.</li> <li>- Transfer 3 frame data to rhs_tx</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> TX signal matches RX. Baudrate in waveform = 4800</p>
2.11	9600 baud rate	<ul style="list-style-type: none"> <li>- Set rhs agent active, lhs agent passive</li> <li>- Set baudrate = 9600 in uart_rhs_config</li> <li>- Randomize the values of other items in uart_rhs_config</li> <li>- Set the values of uart_lhs_config to be the same as uart_rhs_config.</li> <li>- Transfer 3 frame data to rhs_tx</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> TX signal matches RX. Baudrate in waveform =9600</p>

2.12	19200 baud rate	<ul style="list-style-type: none"> <li>- Set rhs agent active, lhs agent passive</li> <li>- Set baudrate = 19200 in uart_rhs_config</li> <li>- Randomize the values of other items in uart_rhs_config</li> <li>- Set the values of uart_lhs_config to be the same as uart_rhs_config.</li> <li>- Transfer 3 frame data to rhs_tx</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> TX signal matches RX. Baudrate in waveform = 19200</p>
2.13	57600 baud rate	<ul style="list-style-type: none"> <li>- Set rhs agent active, lhs agent passive</li> <li>- Set baudrate = 57600 in uart_rhs_config</li> <li>- Randomize the values of other items in uart_rhs_config</li> <li>- Set the values of uart_lhs_config to be the same as uart_rhs_config.</li> <li>- Transfer 3 frame data to rhs_tx</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> TX signal matches RX. Baudrate in waveform = 57600</p>
2.14	115200 baud rate	<ul style="list-style-type: none"> <li>- Set rhs agent active, lhs agent passive</li> <li>- Set baudrate = 115200 in uart_rhs_config</li> <li>- Randomize the values of other items in uart_rhs_config</li> <li>- Set the values of uart_lhs_config to be the same as uart_rhs_config.</li> <li>- Transfer 3 frame data to rhs_tx</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> TX signal matches RX. Baudrate in waveform = 115200</p>



2.15	Custom baud rate	<ul style="list-style-type: none"> <li>- Set rhs agent active, lhs agent passive</li> <li>- Set baudrate is random in uart_rhs_config</li> <li>- Randomize the values of other items in uart_rhs_config</li> <li>- Set the values of uart_lhs_config to be the same as uart_rhs_config.</li> <li>- Transfer 3 frame data to rhs_tx</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> TX signal matches RX. Baudrate in waveform matches with custom baudrate</p>
3	Full-duplex transmission (lhs ACTIVE, rhs ACTIVE)	
3.1	5 bit data	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent active</li> <li>- Set data_width = 5 in uart_lhs_config</li> <li>- Randomize the values of other items in uart_lhs_config.</li> <li>- Set the values of uart_rhs_config to be the same as uart_lhs_config.</li> <li>- Transfer 3 frame data to lhs_tx and rhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> lhs_tx signal matches rhs_rx. rhs_tx signal matches lhs_rx.</p>
3.2	6 bit data	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent active</li> <li>- Set data_width = 6 in uart_lhs_config</li> <li>- Randomize the values of other items in uart_lhs_config.</li> <li>- Set the values of uart_rhs_config to be the same as uart_lhs_config.</li> <li>- Transfer 3 frame data to lhs_tx and rhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> lhs_tx signal matches rhs_rx. rhs_tx signal matches lhs_rx.</p>

3.3	7 bit data	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent active</li> <li>- Set data_width = 7 in uart_lhs_config</li> <li>- Randomize the values of other items in uart_lhs_config.</li> <li>- Set the values of uart_rhs_config to be the same as uart_lhs_config.</li> <li>- Transfer 3 frame data to lhs_tx and rhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> lhs_tx signal matches rhs_rx. rhs_tx signal matches lhs_rx.</p>
3.4	8 bit data	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent active</li> <li>- Set data_width = 8 in uart_lhs_config</li> <li>- Randomize the values of other items in uart_lhs_config.</li> <li>- Set the values of uart_rhs_config to be the same as uart_lhs_config.</li> <li>- Transfer 3 frame data to lhs_tx and rhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> lhs_tx signal matches rhs_rx. rhs_tx signal matches lhs_rx.</p>
3.5	9 bit data	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent active</li> <li>- Set data_width = 9 in uart_lhs_config</li> <li>- Randomize the values of other items in uart_lhs_config.</li> <li>- Set the values of uart_rhs_config to be the same as uart_lhs_config.</li> <li>- Transfer 3 frame data to lhs_tx and rhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> lhs_tx signal matches rhs_rx. rhs_tx signal matches lhs_rx.</p>

3.6	Even parity	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent active</li> <li>- Set parity_type is EVEN in uart_lhs_config</li> <li>- Randomize the values of other items in uart_lhs_config.</li> <li>- Set the values of uart_rhs_config to be the same as uart_lhs_config.</li> <li>- Transfer 3 frame data to lhs_tx and rhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> lhs_tx signal matches rhs_rx. rhs_tx signal matches lhs_rx.</p>
3.7	Odd parity	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent active</li> <li>- Set parity_type is ODD in uart_lhs_config</li> <li>- Randomize the values of other items in uart_lhs_config.</li> <li>- Set the values of uart_rhs_config to be the same as uart_lhs_config.</li> <li>- Transfer 3 frame data to lhs_tx and rhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p>Pass condition: lhs_tx signal matches rhs_rx. rhs_tx signal matches lhs_rx.</p>
3.8	1 stop bit	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent active</li> <li>- Set stop_width = 1 in uart_lhs_config</li> <li>- Randomize the values of other items in uart_lhs_config.</li> <li>- Set the values of uart_rhs_config to be the same as uart_lhs_config.</li> <li>- Transfer 3 frame data to lhs_tx and rhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> lhs_tx signal matches rhs_rx. rhs_tx signal matches lhs_rx.</p>

3.9	2 stop bit	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent active</li> <li>- Set stop_width = 2 in uart_lhs_config</li> <li>- Randomize the values of other items in uart_lhs_config.</li> <li>- Set the values of uart_rhs_config to be the same as uart_lhs_config.</li> <li>- Transfer 3 frame data to lhs_tx and rhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> lhs_tx signal matches rhs_rx. rhs_tx signal matches lhs_rx.</p>
3.10	4800 baud rate	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent active</li> <li>- Set baudrate = 4800 in uart_lhs_config</li> <li>- Randomize the values of other items in uart_lhs_config.</li> <li>- Set the values of uart_rhs_config to be the same as uart_lhs_config.</li> <li>- Transfer 3 frame data to lhs_tx and rhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> lhs_tx signal matches rhs_rx. rhs_tx signal matches lhs_rx. Baudrate in waveform = 4800</p>
3.11	9600 baud rate	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent active</li> <li>- Set baudrate = 9600 in uart_lhs_config</li> <li>- Randomize the values of other items in uart_lhs_config.</li> <li>- Set the values of uart_rhs_config to be the same as uart_lhs_config.</li> <li>- Transfer 3 frame data to lhs_tx and rhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> lhs_tx signal matches rhs_rx. rhs_tx signal matches lhs_rx. Baudrate in waveform = 9600</p>

3.12	19200 baud rate	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent active</li> <li>- Set baudrate = 19200 in uart_lhs_config</li> <li>- Randomize the values of other items in uart_lhs_config.</li> <li>- Set the values of uart_rhs_config to be the same as uart_lhs_config.</li> <li>- Transfer 3 frame data to lhs_tx and rhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> lhs_tx signal matches rhs_rx. rhs_tx signal matches lhs_rx. Baudrate in waveform = 19200</p>
3.13	57600 baud rate	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent active</li> <li>- Set baudrate = 57600 in uart_lhs_config</li> <li>- Randomize the values of other items in uart_lhs_config.</li> <li>- Set the values of uart_rhs_config to be the same as uart_lhs_config.</li> <li>- Transfer 3 frame data to lhs_tx and rhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> lhs_tx signal matches rhs_rx. rhs_tx signal matches lhs_rx. Baudrate in waveform = 57600</p>
3.14	115200 baud rate	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent active</li> <li>- Set baudrate = 115200 in uart_lhs_config</li> <li>- Randomize the values of other items in uart_lhs_config.</li> <li>- Set the values of uart_rhs_config to be the same as uart_lhs_config.</li> <li>- Transfer 3 frame data to lhs_tx and rhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> lhs_tx signal matches rhs_rx. rhs_tx signal matches lhs_rx. Baudrate in waveform = 115200</p>

3.15	Custom baud rate	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent active</li> <li>- Set baudrate is random in uart_lhs_config</li> <li>- Randomize the values of other items in uart_lhs_config.</li> <li>- Set the values of uart_rhs_config to be the same as uart_lhs_config.</li> <li>- Transfer 3 frame data to lhs_tx and rhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> lhs_tx signal matches rhs_rx. rhs_tx signal matches lhs_rx. Baudrate in waveform matches with custom baudrate</p>
4	Error Injection	
4.1	Data width mismatch	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent active</li> <li>- Randomize the values of uart_lhs_config and uart_rhs_config such that all values are the same except for data_width</li> <li>- Transfer 3 frame data to lhs_tx and rhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> Detect errors in data, parity, and stop bits.</p>
4.2	Parity mismatch	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent active</li> <li>- Randomize the values of uart_lhs_config and uart_rhs_config such that all values are the same except for parity type</li> <li>- Transfer 3 frame data to lhs_tx and rhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> Detect errors in parity,</p>

4.3	Stop width mismatch	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent active</li> <li>- Randomize the values of uart_lhs_config and uart_rhs_config such that all values are the same except for stop width</li> <li>- Transfer 3 frame data to lhs_tx and rhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> Detect errors in stop bits.</p>
4.4	Baudrate mismatch	<ul style="list-style-type: none"> <li>- Set lhs agent active, rhs agent active</li> <li>- Randomize the values of uart_lhs_config and uart_rhs_config such that all values are the same except for baudrate</li> <li>- Transfer 3 frame data to lhs_tx and rhs_tx</li> <li>- Capture lhs_tx and rhs_rx signal and compare them</li> <li>- Capture rhs_tx and lhs_rx signal and compare them</li> </ul> <p><b>Pass condition:</b> Detect errors in data, parity, and stop bits.</p>

Testname	Priority	Method	Owner	Status	Milestone	Remark
			Huy			
uart_5bitdata_TXRX_test	High	Directed	Huy	PASS	ver20251306	
uart_6bitdata_TXRX_test	High	Directed	Huy	PASS	ver20251306	
uart_7bitdata_TXRX_test	High	Directed	Huy	PASS	ver20251306	



uart_8bitdata_TXRX_test	High	Directed	Huy	PASS	ver20251306	
uart_9bitdata_TXRX_test	High	Directed	Huy	PASS	ver20251306	
uart_EVEN_TXRX_test	High	Directed	Huy	PASS	ver20251306	
uart_ODD_TXRX_test	High	Directed	Huy	PASS	ver20251306	

uart_1bitstop_TXRX_test	High	Directed	Huy	PASS	ver20251306	
uart_2bitstop_TXRX_test	High	Directed	Huy	PASS	ver20251306	
uart_4800_TXRX_test	High	Directed	Huy	PASS	ver20251306	
uart_9600_TXRX_test	High	Directed	Huy	PASS	ver20251306	

uart_19200_TXRX_test	High	Directed	Huy	PASS	ver20251306	
uart_57600_TXRX_test	High	Directed	Huy	PASS	ver20251306	
uart_115200_TXRX_test	High	Directed	Huy	PASS	ver20251306	

uart_custom_TXRX_test	High	Directed	Huy	PASS	ver20251306	
uart_5bitdata_RXTX_test	High	Directed	Huy	PASS	ver20251306	
uart_6bitdata_RXTX_test	High	Directed	Huy	PASS	ver20251306	
uart_7bitdata_RXTX_test	High	Directed	Huy	PASS	ver20251306	

uart_8bitdata_RXTX_test	High	Directed	Huy	PASS	ver20251306	
uart_9bitdata_RXTX_test	High	Directed	Huy	PASS	ver20251306	
uart_EVEN_RXTX_test	High	Directed	Huy	PASS	ver20251306	
uart_ODD_RXTX_test	High	Directed	Huy	PASS	ver20251306	

uart_1bitstop_RXTX_test	High	Directed	Huy	PASS	ver20251306	
uart_2bitstop_RXTX_test	High	Directed	Huy	PASS	ver20251306	
uart_4800_RXTX_test	High	Directed	Huy	PASS	ver20251306	
uart_9600_RXTX_test	High	Directed	Huy	PASS	ver20251306	

uart_19200_RXTX_test	High	Directed	Huy	PASS	ver20251306	
uart_57600_RXTX_test	High	Directed	Huy	PASS	ver20251306	
uart_115200_RXTX_test	High	Directed	Huy	PASS	ver20251306	

uart_custom_RTX_test	High	Directed	Huy	PASS	ver20251306	
uart_5bitdata_FULL_test	High	Directed	Huy	PASS	ver20251306	
uart_6bitdata_FULL_test	High	Directed	Huy	PASS	ver20251306	



uart_7bitdata_RXTX_test	High	Directed	Huy	PASS	ver20251306	
uart_8bitdata_FULL_test	High	Directed	Huy	PASS	ver20251306	
uart_9bitdata_FULL_test	High	Directed	Huy	PASS	ver20251306	

uart_EVEN_FULL_test	High	Directed	Huy	PASS	ver20251306	
uart_ODD_FULL_test	High	Directed	Huy	PASS	ver20251306	
uart_1bitstop_FULL_test	High	Directed	Huy	PASS	ver20251306	

uart_2bitstop_FULL_test	High	Directed	Huy	PASS	ver20251306	
uart_4800_FULL_test	High	Directed	Huy	PASS	ver20251306	
uart_9600_FULL_test	High	Directed	Huy	PASS	ver20251306	

uart_19200_FULL_test	High	Directed	Huy	PASS	ver20251306	
uart_57600_FULL_test	High	Directed	Huy	PASS	ver20251306	
uart_115200_FULL_test	High	Directed	Huy	PASS	ver20251306	

uart_custom_FULL_test	High	Directed	Huy	PASS	ver20251306	
uart_datawidth_mismatch_test	Medium	Directed	Huy	PASS	ver20251406	
uart_parity_mismatch_test	Medium	Directed	Huy	PASS	ver20251406	

uart_stopwidth_mismatch_test	Medium	Directed	Huy	PASS	ver20251406	
uart_baudrate_mismatch_test	Medium	Directed	Huy	PASS	ver20251406	