Cardiowave Technologies

Excitation Circuit	

1. DC-to-DC converter outputs 200V
   • Measure voltage at output
   • Measure amperage at output
       ☐ Yes   ☐ No
	Comments:

2. Measure output at Arduino pins via oscilloscope
   • Maximum and minimum voltage
   • Maximum and minimum amperage
   • Duty cycle
       ☐ Yes   ☐ No
	Comments:

3. Verify timing on MOSFET switching
   • Input square wave from Arduino
   • Output timing seen on oscilloscope
       ☐ Yes   ☐ No
	Comments:

4. Display output of excitation circuit on oscilloscope ☐ Yes ☐ No	Comments:

5. Verify output of MOSFET does not exceed 125mW
   • Measure voltage
   • Measure amperage
       ☐ Yes   ☐ No
	Comments:

Receiving Circuit	

6. Verify operation of amplifier circuit
   • Input from function generator
   • Amplified signal is seen on oscilloscope
       ☐ Yes   ☐ No
	Comments:

7. Transducer receives signals
   • Physically excite transducer via tapping
   • Output is seen on oscilloscope
       ☐ Yes   ☐ No
	Comments:

8. Received signal is amplified
   • Receiving transducer is connected to amplifier circuit
   • Output of amplifier circuit is seen on oscilloscope
       ☐ Yes   ☐ No
	Comments:

Group 13: Test Plan

Software Components	
9. Receive data from oscilloscope ☐ Yes ☐ No	Comments:
10. Display radio frequency signal ☐ Yes ☐ No	Comments:
11. Display M-mode image ☐ Yes ☐ No	Comments:
12. Display operating conditions: • Transducer frequency • Sampling frequency ☐ Yes ☐ No	Comments:
13. Display duration of testing ☐ Yes ☐ No	Comments:
14. Indicate the walls of artery ☐ Yes ☐ No	Comments:
15. Display data in real-time ☐ Yes ☐ No	Comments: