Classwork 7

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4e – Values of Pulse Integration Index, Transmit Gain, Scan Start, Scan Stop

A screenshot of a computer program

Description automatically generated

**6 – Scans with initial Settings**

Raw – Peak Signal 7000

A graph showing a graph of a number

Description automatically generated

Bandpass – Peak Value: 9500

A graph showing a sound wave

Description automatically generated

Motion Filtered – Peak Value: 4900

A graph showing a sound wave

Description automatically generated

Detections – Peak Value: 100

A graph with red dots

Description automatically generated

First Detection – Peak Value: 10000 @ 7 ns

A graph with red line

Description automatically generated

**7 – Scans with Transmit Gain 0**

Raw – Peak Value: 7000

A graph showing a graph of a person's voice

Description automatically generated

Bandpass – Peak Value: 9000

A graph showing a sound wave

Description automatically generated

Motion Filtered – Peak Value: 4700

A graph showing a graph of a sound wave

Description automatically generated

Detections – Peak Value: 3000

A graph with red dots

Description automatically generated

First Detection – Peak Value 10000 @ 3.7 ns

A graph with red line

Description automatically generated

**8 – Change Pulse Integration Index to 8**

Changing the Pulse Integration Index to 8 allowed the system to gather more data from each pulse. We saw more noise reduction which means that the signal is stronger and more reliable.

Raw – Peak Value: 7000

A graph showing a graph of a number of objects

Description automatically generated

Bandpass – Peak Value: 7000

A graph showing a graph of a wave

Description automatically generated

Motion Filtered – Peak Value: 5000

A graph with a line graph

Description automatically generated

Detection – Peak Value: 4500

A graph with red dots

Description automatically generated

First Detection – Peak Value 10000 @ 5.7 ns

A graph with red line

Description automatically generated

11 – Plot of the data

A graph showing a number of waves

Description automatically generated