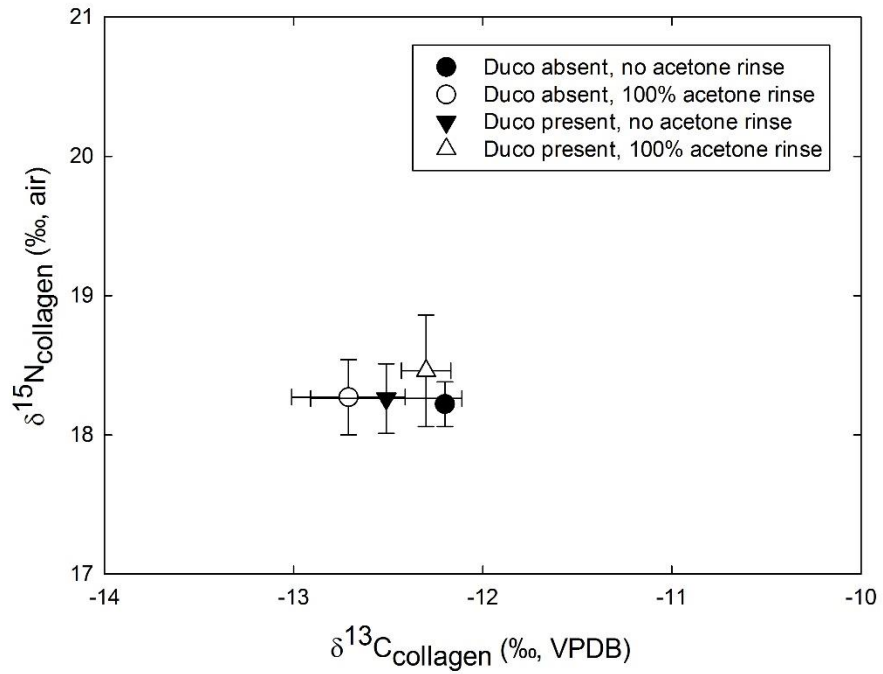
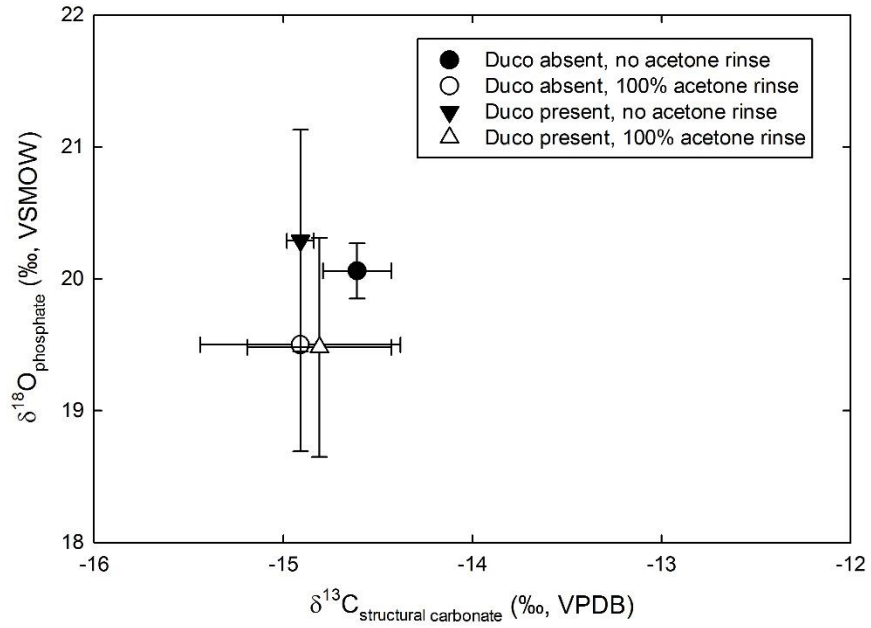


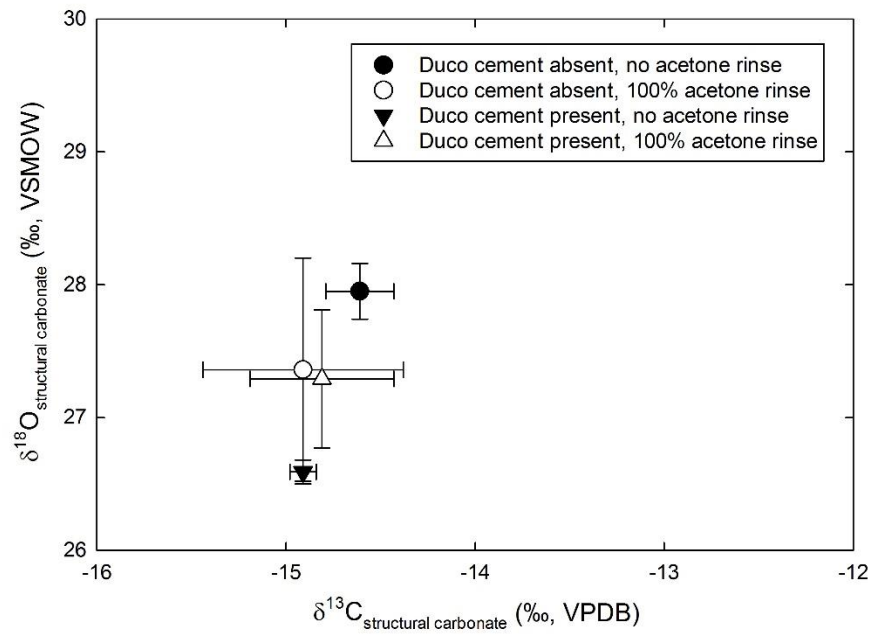
**Figure 1** – FTIR spectra showing the removal of cellulose nitrate (CN) from bone samples. The presence of CN in bone samples is indicated by the absorption band (symmetric NO<sub>2</sub> stretch) at 1274 cm<sup>-1</sup>. The figure shows spectra from Duco cement reference sample (solid line), control bone with no Duco cement (WR-60), treated bone with Duco cement applied and not removed (WR-61), and treated bone with Duco cement applied and removed with 100% acetone (WR-61-2Ao).



**Figure 2** – Average collagen carbon and nitrogen isotope values for seal femur samples according to treatment categories. Error bars represent 1 $\sigma$  standard deviation of replicate analyses.



**Figure 3** – Average phosphate oxygen isotope values (plotted against structural carbonate carbon values for comparison) for whale rib samples according to sample treatment. Error bars represent 1 $\sigma$  standard deviation of replicate analyses.



**Figure 4** – Average structural carbonate oxygen and carbon isotope values for whale rib samples according to sample treatment. Error bars represent  $1\sigma$  standard deviation of replicate analyses.