**Supplementary information**

**Sea surface temperature seasonality in northern South China Sea during the middle Holocene derived from high resolution Sr/Ca ratios of *Tridacna* shells**

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This file includes the result of X-ray diffraction (XRD) analysis of three *Tridacna* spp. specimens in northern SCS.



Figure S1. X-Ray diffraction (XRD) spectrums of A87. Three main strong peaks of aragonite and calcite are marked in the figure.



Figure S2. X-Ray diffraction (XRD) spectrums of A165. Three main strong peaks of aragonite and calcite are marked in the figure.



Figure S3. X-Ray diffraction (XRD) spectrums of A276. Three main strong peaks of aragonite and calcite are marked in the figure.