

Table S2. *Acropora* Raman FWHM (cm^{-1}), n spectra, Ω_{Ar} , $\delta^{11}\text{B}$ (%), B/Ca ($\mu\text{mol mol}^{-1}$), and $[\text{Ca}^{2+}]_{\text{cf}}/[\text{Ca}^{2+}]_{\text{sw}}$.

pH _{sw}	FWHM	n	Ω_{Ar}	$\delta^{11}\text{B}$	B/Ca	$[\text{Ca}^{2+}]_{\text{cf}}/[\text{Ca}^{2+}]_{\text{sw}}$
8.09	3.44 ± 0.01	29	10.8 ± 0.2	23.16	596.2	0.83 ± 0.03
8.09	3.49 ± 0.01	27	11.8 ± 0.2	23.83	598.3	0.85 ± 0.03
8.09	3.52 ± 0.01	22	12.4 ± 0.3	23.90	613.6	0.92 ± 0.04
8.09	3.52 ± 0.01	20	12.3 ± 0.3	22.89	594.8	0.97 ± 0.04
8.09	3.49 ± 0.02	25	11.9 ± 0.4	23.52	597.2	0.89 ± 0.04
8.09	3.47 ± 0.02	17	11.5 ± 0.6	23.41	603.0	0.88 ± 0.05
8.09	3.47 ± 0.01	27	11.4 ± 0.3	24.07	628.9	0.85 ± 0.04
8.09	3.46 ± 0.01	28	11.1 ± 0.2	23.45	625.9	0.87 ± 0.03
8.09	3.47 ± 0.01	24	11.3 ± 0.3	24.04	655.9	0.88 ± 0.03
8.09	3.50 ± 0.03	16	12.2 ± 0.8	23.42	614.0	0.95 ± 0.07
8.09	3.46 ± 0.01	28	11.1 ± 0.2	23.62	630.9	0.86 ± 0.03
8.09	3.51 ± 0.01	31	12.0 ± 0.1	24.52	656.0	0.90 ± 0.03
8.09	3.46 ± 0.02	16	11.2 ± 0.3	24.06	653.0	0.87 ± 0.04
8.09	3.49 ± 0.01	20	11.8 ± 0.3	24.03	642.3	0.90 ± 0.03
8.09	3.46 ± 0.01	27	11.1 ± 0.1	24.14	655.3	0.86 ± 0.03
8.09	3.49 ± 0.01	26	11.7 ± 0.3	24.38	662.4	0.90 ± 0.04
7.81	3.52 ± 0.01	23	12.4 ± 0.3	22.98	578.6	0.95 ± 0.04
7.81	3.52 ± 0.01	22	12.4 ± 0.3	22.18	564.1	1.00 ± 0.04
7.81	3.48 ± 0.01	26	11.4 ± 0.2	22.06	572.0	0.95 ± 0.04
7.81	3.49 ± 0.01	31	11.7 ± 0.2	23.11	593.7	0.91 ± 0.04
7.81	3.51 ± 0.01	28	12.0 ± 0.2	22.81	593.0	0.96 ± 0.04
7.81	3.51 ± 0.01	19	12.1 ± 0.3	21.98	596.5	1.05 ± 0.05
7.81	3.51 ± 0.01	19	12.2 ± 0.2	23.34	623.8	0.96 ± 0.04
7.81	3.49 ± 0.01	25	11.7 ± 0.3	24.52	664.5	0.89 ± 0.03
7.81	3.51 ± 0.02	16	12.2 ± 0.4	21.57	572.6	1.07 ± 0.05
7.81	3.47 ± 0.01	27	11.3 ± 0.2	23.88	646.0	0.88 ± 0.03
7.81	3.50 ± 0.01	34	11.9 ± 0.2	23.30	623.5	0.95 ± 0.03
7.81	3.50 ± 0.01	32	11.9 ± 0.2	22.31	617.9	1.04 ± 0.04
7.81	3.49 ± 0.01	29	11.6 ± 0.2	22.05	574.6	0.97 ± 0.04
7.63	3.51 ± 0.01	21	12.1 ± 0.2	21.94	580.5	1.03 ± 0.04
7.63	3.47 ± 0.01	22	11.3 ± 0.2	22.71	586.3	0.89 ± 0.04
7.63	3.49 ± 0.01	20	11.6 ± 0.3	23.90	624.9	0.87 ± 0.04
7.63	3.51 ± 0.02	14	12.2 ± 0.4	22.11	566.9	1.00 ± 0.05
7.63	3.49 ± 0.01	22	11.7 ± 0.2	23.30	601.5	0.89 ± 0.04
7.63	3.48 ± 0.01	17	11.5 ± 0.3	21.95	563.4	0.95 ± 0.04
7.63	3.50 ± 0.01	22	12.0 ± 0.3	22.03	569.4	0.99 ± 0.04
7.63	3.47 ± 0.02	18	11.4 ± 0.4	22.88	630.0	0.95 ± 0.04
7.63	3.46 ± 0.01	23	11.1 ± 0.3	24.02	649.6	0.86 ± 0.03
7.63	3.46 ± 0.01	28	11.2 ± 0.2	21.95	570.5	0.94 ± 0.04
7.63	3.42 ± 0.01	33	10.4 ± 0.2	22.80	614.2	0.85 ± 0.03
7.63	3.47 ± 0.01	20	11.4 ± 0.2	23.32	629.6	0.91 ± 0.03
7.63	3.47 ± 0.01	26	11.4 ± 0.3	22.42	579.5	0.92 ± 0.04

Notes: Uncertainties are reported as standard errors, and n is the number of Raman spectra used.