

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 7798

CALIBRATION DATE: 08-Apr-17

SBE 19plus V2 CONDUCTIVITY CALIBRATION DATA

PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -9.924451e-001

h = 1.305967e-001

i = -9.160720e-005

j = 2.431818e-005

CPcor = -9.5700e-008

CTcor = 3.2500e-006

BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (Hz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
22.0000	0.0000	0.00000	2757.40	0.0000	0.00000
1.0000	34.7797	2.97313	5505.56	2.9731	0.00000
4.5002	34.7598	3.27994	5713.77	3.2799	0.00000
15.0000	34.7173	4.26075	6332.84	4.2607	-0.00001
18.5000	34.7083	4.60559	6536.29	4.6056	-0.00001
23.9999	34.6984	5.16301	6852.13	5.1630	0.00001
29.0000	34.6928	5.68436	7134.56	5.6844	0.00002
32.5000	34.6898	6.05642	7329.25	6.0564	-0.00001

f = Instrument Output (Hz) / 1000.0

t = temperature (°C); p = pressure (decibars); δ = CTcor; ϵ = CPcor;

Conductivity (S/m) = $(g + h * f^2 + i * f^3 + j * f^4) / 10 (1 + \delta * t + \epsilon * p)$

Residual (Siemens/meter) = instrument conductivity - bath conductivity

