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SENSOR SERIAL NUMBER: 0826
CALIBRATION DATE: 01-Oct-22

SBE 37 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -1.060599e+000
h = 1.573273e-001
i = -4.719684e-004
j = 6.479866e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -2.7407e-005

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	2603.73	0.00000	0.00000
1.0000	34.6373	2.96212	5068.44	2.96219	0.00007
4.5000	34.6175	3.26781	5257.08	3.26778	-0.00003
15.0000	34.5741	4.24503	5818.66	4.24490	-0.00013
18.5000	34.5644	4.58854	6003.41	4.58852	-0.00003
24.0000	34.5533	5.14381	6290.34	5.14405	0.00024
29.0000	34.5460	5.66301	6546.64	5.66289	-0.00012
32.5000	34.5394	6.03314	6722.35	6.03096	-0.00218

$f = \text{Instrument Output(Hz)} * \sqrt{1.0 + \text{WBOTC} * t} / 1000.0$

t = temperature (°C); p = pressure (decibars); $\delta = \text{CTcor}$; $\epsilon = \text{CPcor}$;

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

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

