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SENSOR SERIAL NUMBER: 0817
CALIBRATION DATE: 01-Oct-22

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

COEFFICIENTS:

g = -1.092785e+000
h = 1.392252e-001
i = -7.081829e-005
j = 2.503173e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -1.3113e-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	2802.04	0.00000	0.00000
1.0000	34.6373	2.96212	5390.09	2.96211	-0.00001
4.5000	34.6175	3.26781	5588.93	3.26783	0.00002
15.0000	34.5741	4.24503	6181.10	4.24501	-0.00003
18.5000	34.5644	4.58854	6376.01	4.58856	0.00001
24.0000	34.5533	5.14381	6678.77	5.14382	0.00001
29.0000	34.5460	5.66301	6949.67	5.66300	-0.00001
32.5000	34.5394	6.03314	7136.35	6.03309	-0.00005

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

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

