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SENSOR SERIAL NUMBER: 0827
CALIBRATION DATE: 01-Oct-22

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

COEFFICIENTS:

g = -1.036782e+000
h = 1.587943e-001
i = -8.220231e-005
j = 3.543966e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -2.7313e-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	2555.80	0.00000	0.00000
1.0000	34.6373	2.96212	5010.80	2.96212	0.00001
4.5000	34.6175	3.26781	5198.21	3.26781	0.00000
15.0000	34.5741	4.24503	5755.92	4.24501	-0.00002
18.5000	34.5644	4.58854	5939.34	4.58855	0.00000
24.0000	34.5533	5.14381	6224.17	5.14384	0.00003
29.0000	34.5460	5.66301	6478.90	5.66299	-0.00001
32.5000	34.5394	6.03314	6653.54	6.03125	-0.00189

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

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

