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SENSOR SERIAL NUMBER: 0827
CALIBRATION DATE: 24-Nov-20

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

COEFFICIENTS:

g = -1.036036e+000
h = 1.586002e-001
i = -4.910006e-005
j = 3.394318e-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	2555.84	0.00000	0.00000
1.0000	34.6353	2.96196	5011.28	2.96199	0.00002
4.5000	34.6169	3.26776	5198.73	3.26773	-0.00003
15.0000	34.5767	4.24532	5756.63	4.24531	-0.00001
18.5000	34.5687	4.58905	5940.15	4.58906	0.00001
24.0000	34.5602	5.14472	6225.14	5.14474	0.00002
29.0000	34.5559	5.66445	6480.09	5.66444	-0.00001
32.5000	34.5536	6.03534	6655.85	6.03517	-0.00017

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

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

