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SENSOR SERIAL NUMBER: 0813
CALIBRATION DATE: 01-Dec-20

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

COEFFICIENTS:

g = -1.036764e+000
h = 1.505800e-001
i = -4.699857e-004
j = 6.062118e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -7.1758e-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	2633.18	0.00000	0.00000
0.9999	34.9663	2.98755	5183.78	2.98757	0.00001
4.5000	34.9434	3.29553	5378.57	3.29552	-0.00001
15.0000	34.8964	4.28040	5958.48	4.28037	-0.00002
18.5000	34.8841	4.62639	6149.08	4.62639	0.00000
24.0000	34.8705	5.18580	6445.12	5.18583	0.00004
29.0000	34.8583	5.70842	6709.63	5.70840	-0.00002
32.5001	34.8422	6.08001	6891.39	6.07996	-0.00004

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

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

