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SENSOR SERIAL NUMBER: 4078
CALIBRATION DATE: 07-May-21

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

COEFFICIENTS:

g = -1.037204e+000
h = 1.486836e-001
i = -8.025209e-005
j = 3.091198e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -1.0787e-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	2641.48	0.00000	0.00000
1.0000	34.5953	2.95887	5177.09	2.95887	-0.00000
4.5000	34.5754	3.26423	5370.52	3.26423	0.00000
14.9999	34.5337	4.24059	5946.22	4.24059	-0.00000
18.4999	34.5251	4.58388	6135.56	4.58387	-0.00001
23.9999	34.5158	5.13883	6429.61	5.13885	0.00002
29.0000	34.5107	5.65787	6692.64	5.65786	-0.00001
32.5000	34.5069	6.02811	6873.92	6.02802	-0.00009

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

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

