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SENSOR SERIAL NUMBER: 0475
CALIBRATION DATE: 14-Nov-23

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

COEFFICIENTS:

g = -1.043989e+000
h = 1.412427e-001
i = -2.977983e-004
j = 4.192352e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -8.3216e-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	2726.05	0.00000	0.00000
1.0000	34.8341	2.97734	5343.52	2.97734	0.00000
4.4999	34.8132	3.28445	5544.02	3.28445	0.00000
15.0000	34.7682	4.26634	6141.00	4.26632	-0.00002
18.4999	34.7574	4.61139	6337.36	4.61140	0.00001
23.9999	34.7441	5.16906	6642.29	5.16906	0.00000
28.9999	34.7330	5.69020	6914.95	5.69020	-0.00000
32.5000	34.7200	6.06109	7102.28	6.06056	-0.00053

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

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

