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SENSOR SERIAL NUMBER: 3424
CALIBRATION DATE: 18-Sep-24

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

COEFFICIENTS:

g = -1.007340e+000
h = 1.375860e-001
i = -2.379450e-004
j = 3.884584e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -6.3041e-006

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	2709.56	0.00000	0.00000
0.9999	34.7148	2.96811	5378.42	2.96811	0.00000
4.5000	34.6934	3.27427	5580.99	3.27427	-0.00000
14.9999	34.6496	4.25331	6183.57	4.25330	-0.00001
18.4999	34.6404	4.59754	6381.64	4.59754	0.00001
24.0000	34.6305	5.15403	6689.10	5.15404	0.00000
29.0000	34.6259	5.67463	6964.09	5.67463	-0.00000
32.5000	34.6239	6.04622	7153.71	6.04622	0.00000

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

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

