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SENSOR SERIAL NUMBER: 4254
CALIBRATION DATE: 28-Aug-24

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

COEFFICIENTS:

g = -1.015682e+000
h = 1.510748e-001
i = -3.081060e-004
j = 4.988735e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 8.9558e-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	2596.61	0.00000	0.00000
1.0000	34.6096	2.95997	5134.42	2.95998	0.00001
4.5000	34.5893	3.26541	5327.20	3.26541	-0.00000
15.0000	34.5470	4.24206	5900.64	4.24205	-0.00001
18.4999	34.5384	4.58545	6089.11	4.58543	-0.00002
24.0000	34.5290	5.14059	6381.70	5.14060	0.00001
29.0000	34.5247	5.65991	6643.36	5.65994	0.00003
32.5002	34.5229	6.03061	6823.74	6.03058	-0.00002

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

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

