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SENSOR SERIAL NUMBER: 3424
CALIBRATION DATE: 06-Oct-22

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

COEFFICIENTS:

g = -1.007952e+000
h = 1.373721e-001
i = -9.946396e-005
j = 2.886154e-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	2709.52	0.00000	0.00000
1.0000	34.7346	2.96965	5375.15	2.96965	0.00001
4.5000	34.7151	3.27612	5577.57	3.27611	-0.00001
15.0000	34.6719	4.25577	6179.55	4.25577	-0.00000
18.5000	34.6623	4.60014	6377.40	4.60014	0.00000
24.0000	34.6511	5.15676	6684.51	5.15677	0.00001
29.0000	34.6423	5.67702	6958.98	5.67701	-0.00000
32.5000	34.6313	6.04737	7147.80	6.04745	0.00008

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

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

