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SENSOR SERIAL NUMBER: 4254
CALIBRATION DATE: 27-Sep-18

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

COEFFICIENTS:

g = -1.014074e+000
h = 1.506648e-001
i = -2.054063e-004
j = 4.148516e-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	2596.28	0.00000	0.00000
1.0000	34.6626	2.96408	5137.79	2.96409	0.00001
4.5000	34.6433	3.27001	5330.83	3.26999	-0.00002
15.0000	34.6014	4.24803	5904.95	4.24802	-0.00001
18.5000	34.5930	4.59193	6093.69	4.59195	0.00002
24.0000	34.5839	5.14786	6386.64	5.14786	-0.00000
29.0000	34.5793	5.66785	6648.62	5.66785	-0.00000
32.5000	34.5761	6.03882	6829.15	6.03878	-0.00004

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

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

