Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1804
CALIBRATION DATE: 04-Feb-14

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

COEFFICIENTS:

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g = -9.770301e-001
h =  1.383945e-001
i = -1.741285e-004
j =  3.664045e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  2.7581e-006
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BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2658.90	0.00000	0.00000
1.0000	34.6713	2.96475	5334.68	2.96475	0.00000
4.5000	34.6514	3.27070	5536.93	3.27069	-0.00000
15.0000	34.6087	4.24883	6138.05	4.24883	-0.00000
18.5000	34.5997	4.59273	6335.53	4.59273	0.00001
24.0000	34.5899	5.14866	6641.98	5.14866	0.00001
29.0000	34.5845	5.66861	6915.92	5.66859	-0.00001
32.4999	34.5817	6.03968	7104.75	6.03969	0.00001

f = INST FREQ * sqrt(1.0 + WBOTC * t) / 1000.0

Conductivity = $(g + hf^2 + if^3 + jf^4) / (1 + \delta t + \varepsilon p)$ Siemens/meter

t = temperature[°C)]; p = pressure[decibars]; δ = CTcor; ε = CPcor;

Residual = instrument conductivity - bath conductivity