Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2026
CALIBRATION DATE: 20-Nov-15

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

COEFFICIENTS:

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g = -9.266743e-001
h =  1.440881e-001
i = -3.802890e-006
j =  3.494784e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC = -3.7810e-006
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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	2534.22	0.00000	0.00000
1.0000	34.7575	2.97142	5184.80	2.97143	0.00001
4.5000	34.7383	3.27809	5383.59	3.27808	-0.00001
15.0000	34.6958	4.25839	5973.73	4.25837	-0.00003
18.5001	34.6868	4.60305	6167.44	4.60306	0.00001
24.0000	34.6770	5.16019	6467.88	5.16021	0.00002
29.0000	34.6716	5.68128	6736.32	5.68128	0.00000
32.4999	34.6687	6.05315	6921.26	6.05314	-0.00001

f = Instrument Output(Hz) * sqrt(1.0 + WBOTC * t) / 1000.0

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

Conductivity (S/m) = $(g + h * f^2 + i * f^3 + j * f^4) / 10 (1 + \delta * t + \varepsilon * p)$

Residual (Siemens/meter) = instrument conductivity - bath conductivity