

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0277
CALIBRATION DATE: 01-Mar-13

SBE 49 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -9.811307e-001
h = 1.478051e-001
i = -3.370955e-004
j = 4.929600e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006

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	2581.17	0.0000	0.00000
0.9999	34.7626	2.97180	5178.92	2.9718	0.00000
4.5000	34.7426	3.27846	5375.41	3.2784	-0.00001
14.9999	34.6999	4.25883	5959.46	4.2588	-0.00001
18.5000	34.6906	4.60349	6151.35	4.6035	0.00003
24.0000	34.6807	5.16068	6449.10	5.1607	-0.00002
29.0000	34.6753	5.68182	6715.31	5.6818	0.00000
32.5001	34.6724	6.05374	6898.79	6.0537	0.00000

f = INST FREQ / 1000.0

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

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

Residual = instrument conductivity - bath conductivity

