

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3722
CALIBRATION DATE: 30-Nov-16

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

COEFFICIENTS:

g = -1.045462e+000
h = 1.264651e-001
i = -3.009279e-004
j = 3.662287e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 8.4820e-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	2881.36	0.00000	0.00000
1.0000	34.6465	2.96283	5641.68	2.96282	-0.00001
4.5000	34.6269	3.26861	5852.27	3.26862	0.00001
15.0000	34.5852	4.24625	6478.93	4.24626	0.00000
18.5000	34.5765	4.58998	6684.98	4.58998	0.00000
24.0000	34.5672	5.14565	7004.91	5.14564	-0.00001
29.0000	34.5624	5.66539	7291.08	5.66539	-0.00000
32.5000	34.5602	6.03636	7488.42	6.03637	0.00000

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

t = temperature (°C); p = pressure (decibars); $\delta = \text{CTcor}$; $\epsilon = \text{CPcor}$;

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

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

