



Sea-Bird Scientific
13431 NE 20th Street
Bellevue, WA 98005
USA

+1 425-643-9866
seabird@seabird.com
www.seabird.com

SENSOR SERIAL NUMBER: 13247
CALIBRATION DATE: 14-Nov-18

SBE 37 V2 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -9.735959e-001
h = 1.498509e-001
i = -1.427709e-004
j = 3.264708e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 3.9209e-007

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	2550.22	0.00000	0.00000
1.0000	34.9752	2.98825	5139.64	2.98824	-0.00001
4.5000	34.9552	3.29653	5335.20	3.29654	0.00001
15.0000	34.9124	4.28215	5916.48	4.28215	0.00000
18.5000	34.9033	4.62866	6107.45	4.62865	-0.00001
24.0000	34.8926	5.18872	6403.84	5.18873	0.00001
29.0000	34.8858	5.71242	6668.77	5.71241	-0.00000
32.5000	34.8808	6.08596	6851.29	6.08590	-0.00006

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

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

