



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

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

SENSOR SERIAL NUMBER: 3777
CALIBRATION DATE: 01-Dec-23

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

COEFFICIENTS:

g = -9.955150e-001
h = 1.281523e-001
i = -7.303941e-006
j = 2.158496e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -5.5036e-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	2785.72	0.00000	0.00000
1.0000	34.7963	2.97442	5552.31	2.97441	-0.00001
4.5000	34.7756	3.28126	5761.87	3.28127	0.00001
14.9999	34.7316	4.26231	6384.97	4.26230	-0.00001
18.5000	34.7209	4.60708	6589.67	4.60710	0.00003
24.0000	34.7079	5.16428	6907.31	5.16426	-0.00002
29.0000	34.6968	5.68494	7191.14	5.68495	0.00001
32.5000	34.6854	6.05574	7386.50	6.05592	0.00018

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

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

