



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

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

SENSOR SERIAL NUMBER: 11712
CALIBRATION DATE: 11-May-23

SBE 41 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -1.002560e+000
h = 1.611431e-001
i = -4.716488e-004
j = 6.323817e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -3.3327e-008

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	2500.39	0.00000	0.00000
1.0000	34.6916	2.96632	4974.90	2.96633	0.00001
4.4999	34.6729	3.27252	5162.74	3.27251	-0.00001
14.9999	34.6338	4.25158	5721.39	4.25157	-0.00001
18.5000	34.6263	4.59588	5905.02	4.59588	0.00000
23.9940	34.6190	5.15189	6189.75	5.15189	-0.00000
29.0001	34.6159	5.67319	6444.95	5.67320	0.00001
32.5000	34.6124	6.04444	6620.48	6.04443	-0.00001

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

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

