



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

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

SENSOR SERIAL NUMBER: 3936
CALIBRATION DATE: 17-Sep-24

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

COEFFICIENTS:

g = -1.016089e+000
h = 1.414240e-001
i = -1.263327e-004
j = 3.149511e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 7.1795e-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	2681.28	0.00000	0.00000
1.0000	34.6322	2.96172	5299.44	2.96173	0.00001
4.5000	34.6112	3.26727	5498.33	3.26726	-0.00001
14.9999	34.5674	4.24429	6090.04	4.24428	-0.00000
18.4999	34.5582	4.58780	6284.57	4.58781	0.00001
24.0000	34.5482	5.14313	6586.56	5.14313	-0.00000
29.0000	34.5433	5.66261	6856.70	5.66262	0.00000
32.5001	34.5403	6.03329	7042.91	6.03329	-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) = $(g + h * f^2 + i * f^3 + j * f^4) / (1 + \delta * t + \epsilon * p)$

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

