



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

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

SENSOR SERIAL NUMBER: 3948
 CALIBRATION DATE: 12-Mar-24

SBE 4 CONDUCTIVITY CALIBRATION DATA
 PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -1.01806462e+001
 h = 1.55491469e+000
 i = -1.20232044e-003
 j = 2.00651232e-004

CPcor = -9.5700e-008 (nominal)
 CTcor = 3.2500e-006 (nominal)

BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (kHz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
0.0000	0.0000	0.00000	2.56024	0.00000	0.00000
-1.0000	34.7389	2.79892	4.95622	2.79893	0.00001
1.0000	34.7391	2.96999	5.06593	2.96999	-0.00001
15.0000	34.7391	4.26314	5.82839	4.26314	-0.00001
18.5000	34.7376	4.60905	6.01584	4.60905	-0.00000
29.0001	34.7301	5.68980	6.56676	5.68982	0.00002
32.5003	34.7120	6.05989	6.74493	6.05988	-0.00001

f = Instrument Output (kHz)

t = temperature (°C); p = pressure (decibars); δ = CTcor; ϵ = 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

