



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

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

SENSOR SERIAL NUMBER: 0448
CALIBRATION DATE: 12-Oct-23

SBE 49 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -1.010062e+000
h = 1.268180e-001
i = -6.479558e-004
j = 5.663438e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-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	2837.69	0.0000	0.00000
1.0000	34.5992	2.95917	5635.81	2.9591	-0.00005
4.5000	34.5793	3.26456	5848.69	3.2646	0.00004
15.0000	34.5359	4.24084	6481.52	4.2409	0.00005
18.5000	34.5261	4.58401	6689.43	4.5840	0.00001
24.0001	34.5148	5.13872	7012.09	5.1386	-0.00011
29.0000	34.5013	5.65650	7300.14	5.6566	0.00006
32.5000	34.4805	6.02402	7497.55	6.0240	-0.00000

f = Instrument Output (Hz) / 1000.0

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

