



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

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

SENSOR SERIAL NUMBER: 0817
CALIBRATION DATE: 25-Oct-18

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

COEFFICIENTS:

g = -1.092526e+000
h = 1.392544e-001
i = -9.909310e-005
j = 2.756739e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -1.3113e-005

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	2802.01	0.00000	0.00000
1.0000	34.6819	2.96557	5393.17	2.96558	0.00001
4.4999	34.6624	3.27162	5592.17	3.27161	-0.00001
15.0000	34.6208	4.25016	6184.99	4.25016	-0.00000
18.5000	34.6123	4.59422	6380.11	4.59421	-0.00000
24.0000	34.6031	5.15041	6683.25	5.15042	0.00002
29.0000	34.5983	5.67062	6954.53	5.67061	-0.00001
32.5000	34.5949	6.04173	7141.59	6.04168	-0.00005

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

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

