



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

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

SENSOR SERIAL NUMBER: 3777
CALIBRATION DATE: 09-Sep-21

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

COEFFICIENTS:

g = -1.010594e+000
h = 1.303697e-001
i = -1.287256e-004
j = 3.024888e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -5.5036e-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	2785.69	0.00000	0.00000
1.0000	34.6089	2.95992	5514.25	2.95991	-0.00001
4.4999	34.5898	3.26544	5721.62	3.26546	0.00001
15.0000	34.5485	4.24222	6338.27	4.24222	0.00000
18.5000	34.5395	4.58559	6540.93	4.58561	0.00001
24.0000	34.5290	5.14059	6855.47	5.14057	-0.00002
29.0001	34.5220	5.65953	7136.70	5.65953	0.00000
32.5000	34.5162	6.02955	7330.42	6.02955	0.00000

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

$t = \text{temperature (°C)}$; $p = \text{pressure (decibars)}$; $\delta = \text{CTcor}$; $\epsilon = \text{CPcor}$;

$\text{Conductivity (S/m)} = (g + h * f^2 + i * f^3 + j * f^4) / (1 + \delta * t + \epsilon * p)$

$\text{Residual (Siemens/meter)} = \text{instrument conductivity} - \text{bath conductivity}$

