



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: 12-Nov-23

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

COEFFICIENTS:

g = -1.009436e+000
h = 1.297693e-001
i = 5.879383e-005
j = 2.107285e-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	34.4329	2.94630	5500.80	2.94627	-0.00002
4.5001	34.4123	3.25035	5707.07	3.25037	0.00002
15.0000	34.3691	4.22251	6320.50	4.22252	0.00000
18.5000	34.3596	4.56427	6522.11	4.56428	0.00000
24.0000	34.3490	5.11674	6835.08	5.11672	-0.00002
29.0000	34.3424	5.63336	7114.94	5.63337	0.00001
32.4998	34.3374	6.00183	7307.90	6.00210	0.00027

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

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

