



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

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

SENSOR SERIAL NUMBER: 0473
CALIBRATION DATE: 20-Nov-20

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

COEFFICIENTS:

g = -1.087135e+000
h = 1.491414e-001
i = -4.362918e-004
j = 5.488379e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -6.9823e-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	2709.03	0.00000	0.00000
1.0000	34.6035	2.95950	5222.82	2.95951	0.00001
4.5000	34.5838	3.26494	5416.50	3.26494	-0.00001
15.0000	34.5420	4.24151	5993.56	4.24151	-0.00000
18.5000	34.5333	4.58486	6183.52	4.58486	0.00000
24.0000	34.5243	5.13997	6478.69	5.13997	0.00000
29.0000	34.5198	5.65919	6742.89	5.65919	0.00000
32.5000	34.5171	6.02969	6925.13	6.02969	-0.00000

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

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

