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

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

SENSOR SERIAL NUMBER: 2318
CALIBRATION DATE: 21-Feb-24

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

COEFFICIENTS:

```
g = -9.994575e-001
h =  1.484875e-001
i =  7.472459e-005
j =  2.429248e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  6.0140e-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	2591.12	0.00000	0.00000
1.0000	34.5501	2.95537	5143.06	2.95537	-0.00000
4.5000	34.5310	3.26045	5336.57	3.26045	-0.00000
14.9999	34.4914	4.23594	5912.06	4.23594	-0.00000
18.4999	34.4831	4.57890	6101.19	4.57891	0.00001
23.9999	34.4744	5.13335	6394.78	5.13334	-0.00001
29.0000	34.4700	5.65195	6657.35	5.65195	0.00000
32.5000	34.4675	6.02201	6838.38	6.02211	0.00010

f = Instrument Output(Hz) * sqrt(1.0 + WBOTC * t) / 1000.0

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

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

Residual (Siemens/meter) = instrument conductivity - bath conductivity