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

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

SENSOR SERIAL NUMBER: 1858
CALIBRATION DATE: 27-Dec-24

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

COEFFICIENTS:

```
g = -1.038271e+000
h =  1.456077e-001
i = -1.357544e-004
j =  3.489946e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  4.6484e-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	2671.22	0.00000	0.00000
1.0000	34.6654	2.96429	5238.53	2.96431	0.00001
4.5000	34.6447	3.27013	5434.09	3.27012	-0.00001
15.0000	34.5990	4.24777	6015.90	4.24774	-0.00002
18.5000	34.5887	4.59142	6207.19	4.59143	0.00001
24.0000	34.5765	5.14688	6504.15	5.14690	0.00002
29.0000	34.5688	5.66633	6769.70	5.66633	0.00000
32.5000	34.5620	6.03664	6952.63	6.03663	-0.00001

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