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

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

SENSOR SERIAL NUMBER: 0455
CALIBRATION DATE: 08-Mar-25

SBE 45 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

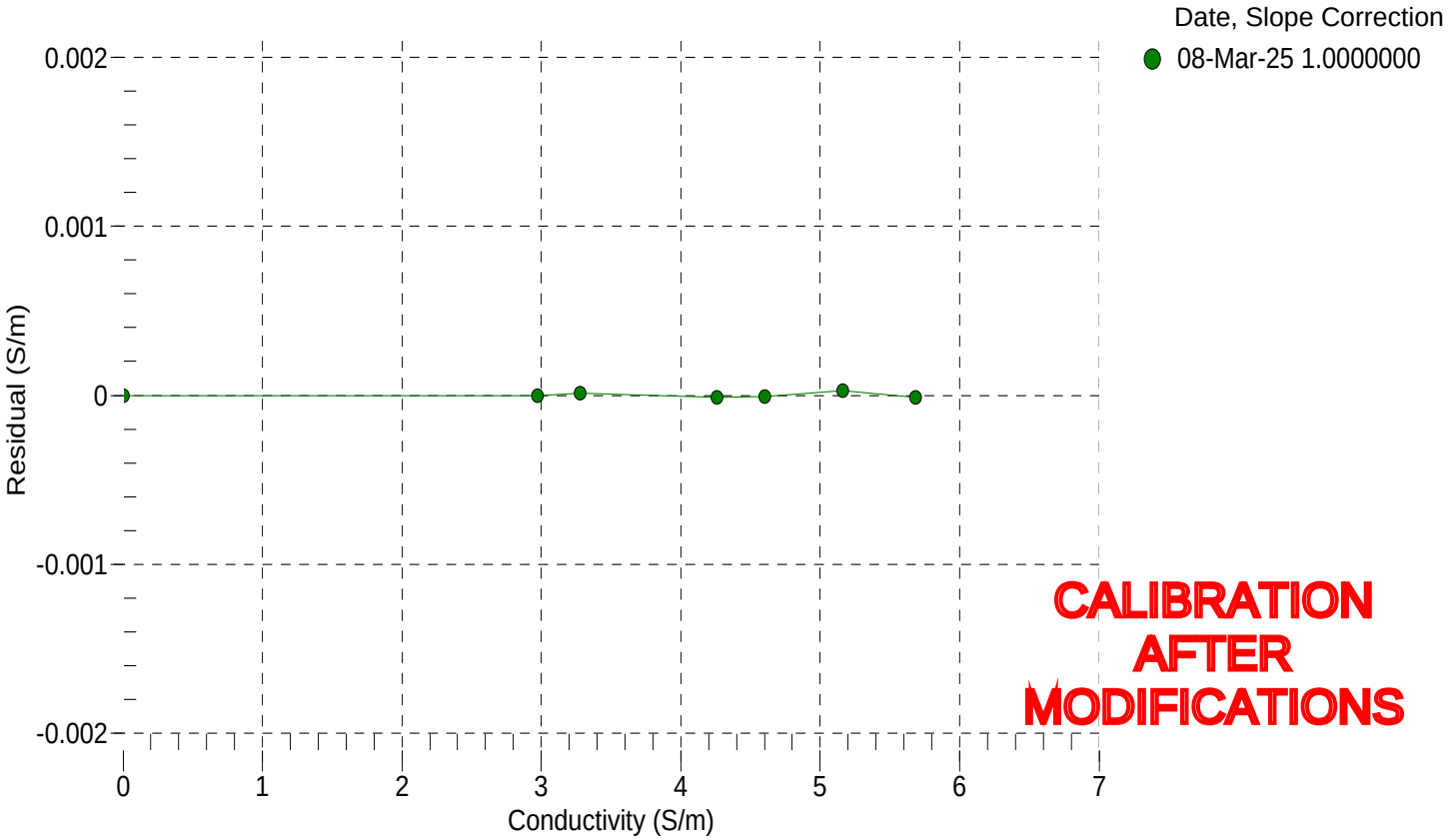
```
g = -1.004902e+000
h =  1.306710e-001
i = -3.289457e-004
j =  4.128620e-005
```

```
CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  8.9947e-008
```

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	2779.48	0.00000	0.00000
1.0000	34.7674	2.97218	5528.66	2.97218	-0.00000
4.5000	34.7477	3.27889	5737.29	3.27890	0.00001
15.0000	34.7053	4.25944	6357.60	4.25942	-0.00001
18.5000	34.6955	4.60407	6561.39	4.60406	-0.00001
24.0000	34.6840	5.16112	6877.68	5.16114	0.00003
29.0000	34.6756	5.68186	7160.31	5.68185	-0.00001
32.5000	34.5948	6.04172	7354.72	6.05265	0.01094

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