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

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

SENSOR SERIAL NUMBER: 0399
CALIBRATION DATE: 03-Jan-18

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

COEFFICIENTS:

```
g = -9.740869e-001
h =  1.423229e-001
i = -3.908650e-004
j =  5.116385e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  6.9909e-007
```

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	2622.33	0.00000	0.00000
1.0000	34.7559	2.97129	5276.94	2.97129	-0.00001
4.5000	34.7362	3.27791	5477.57	3.27792	0.00001
15.0000	34.6943	4.25823	6073.79	4.25823	0.00000
18.5000	34.6856	4.60290	6269.63	4.60290	0.00000
24.0000	34.6760	5.16006	6573.52	5.16005	-0.00001
29.0000	34.6701	5.68106	6845.10	5.68106	0.00000
32.5000	34.6658	6.05271	7032.18	6.05271	0.00000

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