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SENSOR SERIAL NUMBER: 3424  
CALIBRATION DATE: 22-Sep-22

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

COEFFICIENTS:

g = -1.014235e+000  
h = 1.383323e-001  
i = -1.528752e-004  
j = 3.337094e-005

CPcor = -9.5700e-008  
CTcor = 3.2500e-006  
WBOTC = -6.3041e-006

| BATH TEMP<br>(° C) | BATH SAL<br>(PSU) | BATH COND<br>(S/m) | INSTRUMENT<br>OUTPUT (Hz) | INSTRUMENT<br>COND (S/m) | RESIDUAL<br>(S/m) |
|--------------------|-------------------|--------------------|---------------------------|--------------------------|-------------------|
| 22.0000            | 0.0000            | 0.00000            | 2709.59                   | 0.00000                  | 0.00000           |
| 1.0000             | 34.6741           | 2.96497            | 5360.68                   | 2.96498                  | 0.00001           |
| 4.5000             | 34.6552           | 3.27102            | 5562.23                   | 3.27100                  | -0.00001          |
| 15.0000            | 34.6142           | 4.24944            | 6161.72                   | 4.24943                  | -0.00001          |
| 18.5000            | 34.6056           | 4.59342            | 6358.79                   | 4.59344                  | 0.00002           |
| 24.0000            | 34.5957           | 5.14943            | 6664.67                   | 5.14942                  | -0.00001          |
| 29.0000            | 34.5891           | 5.66928            | 6938.14                   | 5.66928                  | 0.00000           |
| 32.5000            | 34.5825           | 6.03981            | 7126.46                   | 6.03981                  | -0.00000          |

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

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

