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SENSOR SERIAL NUMBER: 3722
CALIBRATION DATE: 09-Sep-21

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

COEFFICIENTS:

g = -1.039749e+000
h = 1.256233e-001
i = -1.406742e-004
j = 2.728252e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 8.4820e-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	2878.71	0.00000	0.00000
1.0000	34.6089	2.95992	5640.88	2.95992	-0.00000
4.4999	34.5898	3.26544	5851.45	3.26544	-0.00000
15.0000	34.5485	4.24222	6477.99	4.24223	0.00000
18.5000	34.5395	4.58559	6683.98	4.58561	0.00001
24.0000	34.5290	5.14059	7003.75	5.14058	-0.00001
29.0001	34.5220	5.65953	7289.70	5.65952	-0.00001
32.5000	34.5162	6.02955	7486.71	6.02956	0.00001

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

$t = \text{temperature (°C)}$; $p = \text{pressure (decibars)}$; $\delta = \text{CTcor}$; $\epsilon = \text{CPcor}$;

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

$\text{Residual (Siemens/meter)} = \text{instrument conductivity} - \text{bath conductivity}$

