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SENSOR SERIAL NUMBER: 0475
CALIBRATION DATE: 10-Sep-21

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

COEFFICIENTS:

g = -1.041094e+000
h = 1.408240e-001
i = -2.937145e-004
j = 4.501063e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -8.3216e-005

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	2725.99	0.00000	0.00000
1.0000	34.6747	2.96501	5339.27	2.96502	0.00001
4.5000	34.6552	3.27102	5539.49	3.27101	-0.00001
14.9999	34.6142	4.24943	6135.61	4.24942	-0.00001
18.5000	34.6055	4.59341	6331.73	4.59342	0.00001
24.0000	34.5961	5.14948	6636.32	5.14948	0.00000
29.0000	34.5905	5.66948	6908.82	5.66948	-0.00000
32.5000	34.5856	6.04029	7096.71	6.04045	0.00015

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

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

