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SENSOR SERIAL NUMBER: 0475
CALIBRATION DATE: 15-Oct-19

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

COEFFICIENTS:

g = -1.043017e+000
h = 1.413622e-001
i = -4.159984e-004
j = 5.223147e-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	34.6681	2.96450	5338.50	2.96453	0.00003
4.5000	34.6488	3.27047	5538.73	3.27043	-0.00004
15.0000	34.6063	4.24857	6134.94	4.24858	0.00001
18.5000	34.5969	4.59239	6331.03	4.59239	-0.00000
23.9999	34.5863	5.14817	6635.60	5.14818	0.00001
29.0000	34.5785	5.66774	6907.98	5.66773	-0.00000
32.5000	34.5677	6.03752	7095.57	6.03795	0.00043

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

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

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

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

