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SENSOR SERIAL NUMBER: 0269
 CALIBRATION DATE: 23-Jun-21

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

COEFFICIENTS:

g = -9.855405e-001 CPcor = -9.5700e-008
 h = 1.355648e-001 CTcor = 3.2500e-006
 i = -3.109847e-004 WBOTC = 6.7862e-007
 j = 4.363627e-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	2701.45	0.00000	0.00000
1.0000	34.8880	2.98151	5417.64	2.98153	0.00002
4.5000	34.8688	3.28919	5623.07	3.28917	-0.00002
15.0000	34.8271	4.27280	6233.70	4.27278	-0.00002
18.5000	34.8179	4.61856	6434.27	4.61856	-0.00000
23.9999	34.8072	5.17741	6745.46	5.17742	0.00001
28.9999	34.7997	5.69989	7023.54	5.69993	0.00003
32.5001	34.7949	6.07269	7215.13	6.07266	-0.00003

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

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

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

Residual (Siemens/meter) = instrument conductivity - bath conductivity

