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SENSOR SERIAL NUMBER: 0289
CALIBRATION DATE: 07-Feb-24

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

COEFFICIENTS:

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g = -9.943507e-001
h =  1.623842e-001
i = -3.837880e-004
j =  5.632767e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  3.3617e-007
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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	2479.18	0.00000	0.00000
1.0000	34.6514	2.96321	4944.70	2.96321	0.00000
4.5000	34.6319	3.26904	5131.67	3.26903	-0.00000
15.0000	34.5900	4.24678	5687.62	4.24677	-0.00001
18.5000	34.5809	4.59050	5870.32	4.59053	0.00003
24.0000	34.5703	5.14606	6153.81	5.14604	-0.00002
29.0000	34.5630	5.66548	6407.25	5.66549	0.00001
32.5000	34.5561	6.03573	6581.69	6.03563	-0.00010

f = Instrument Output(Hz) * sqrt(1.0 + WBOTC * t) / 1000.0

t = temperature (°C); p = pressure (decibars); δ = CTcor; ε = CPcor;

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

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