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SENSOR SERIAL NUMBER: 1637 CALIBRATION DATE: 02-May-23 SBE 39 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

## **COEFFICIENTS:**

a0 = -1.964193e-004 a1 = 3.080051e-004 a2 = -4.466158e-006 a3 = 2.079099e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	784597.6	-1.4999	0.0001
1.0000	701861.0	0.9999	-0.0001
4.5000	602183.8	4.4999	-0.0001
8.0000	518334.9	8.0000	-0.0000
11.5000	447564.7	11.5000	0.0000
15.0000	387639.7	15.0001	0.0001
18.5000	336737.4	18.5001	0.0001
22.0000	293366.0	22.0000	-0.0000
25.5000	256299.2	25.4999	-0.0001
29.0000	224527.7	28.9999	-0.0001
32.5000	197217.2	32.5001	0.0001

n = Instrument Output (counts)

Temperature ITS-90 (°C) =  $1/{a0 + a1[ln(n)] + a2[ln^2(n)] + a3[ln^3(n)]} - 273.15$ 

Residual ( ${}^{\circ}C$ ) = instrument temperature - bath temperature

