Sea-Bird Scientific 13431 NE 20<sup>th</sup> Street Bellevue, WA 98005 USA

SENSOR SERIAL NUMBER: 1635 CALIBRATION DATE: 29-May-21 SBE 39 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

## **COEFFICIENTS:**

a0 = -2.136404e-004 a1 = 3.084840e-004 a2 = -4.516750e-006 a3 = 2.075302e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	841297.0	-1.5000	0.0000
1.0000	752426.5	1.0000	-0.0000
4.5000	645387.9	4.5000	-0.0000
8.0000	555372.1	8.0000	-0.0000
11.5000	479418.7	11.5000	0.0000
15.0000	415121.1	15.0001	0.0001
18.5000	360519.7	18.5000	0.0000
22.0000	314007.7	22.0000	-0.0000
25.5000	274267.3	25.4999	-0.0001
29.0000	240212.6	28.9999	-0.0001
32.5000	210946.7	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

