Sea-Bird Scientific 13431 NE 20<sup>th</sup> Street Bellevue, WA 98005 USA +1 425-643-9866 seabird@seabird.com www.seabird.com

SENSOR SERIAL NUMBER: 1852 CALIBRATION DATE: 25-Apr-19 SBE 37 CONDUCTIVITY CALIBRATION DATA PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

## **COEFFICIENTS:**

j = 3.996105e-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	2649.66	0.00000	0.00000
1.0000	34.8762	2.98060	5169.76	2.98062	0.00002
4.5000	34.8562	3.28812	5362.16	3.28811	-0.00001
15.0000	34.8131	4.27126	5934.82	4.27122	-0.00004
18.5000	34.8035	4.61685	6123.15	4.61685	-0.00000
24.0000	34.7920	5.17541	6415.55	5.17545	0.00004
29.0000	34.7826	5.69742	6676.88	5.69743	0.00001
32.5001	34.7723	6.06920	6856.74	6.06918	-0.00002

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

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

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

