Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0454
CALIBRATION DATE: 28-Apr-17

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

COEFFICIENTS:

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g = -9.893178e-001
h =  1.325500e-001
i = -3.664528e-004
j =  4.389518e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  2.4343e-006
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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	2738.89	0.00000	0.00000
1.0000	34.7036	2.96725	5477.75	2.96724	-0.00001
4.4999	34.6841	3.27347	5685.24	3.27348	0.00001
15.0000	34.6421	4.25250	6302.03	4.25249	-0.00001
18.5000	34.6333	4.59670	6504.70	4.59672	0.00002
24.0000	34.6237	5.15313	6819.20	5.15313	-0.00001
29.0000	34.6181	5.67350	7100.33	5.67348	-0.00001
32.5000	34.6145	6.04477	7294.08	6.04478	0.00001

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

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

Conductivity (S/m) = $(g + h * f^2 + i * f^3 + j * f^4) / 10 (1 + \delta * t + \varepsilon * p)$

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