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SENSOR SERIAL NUMBER: 0454
CALIBRATION DATE: 24-Feb-22

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

COEFFICIENTS:

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g = -1.008664e+000
h =  1.348079e-001
i = -2.302569e-004
j =  3.514878e-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	2739.03	0.00000	0.00000
1.0000	34.6570	2.96364	5432.60	2.96363	-0.00001
4.4999	34.6376	3.26951	5637.21	3.26953	0.00001
15.0000	34.5958	4.24742	6245.72	4.24743	0.00001
18.5000	34.5867	4.59119	6445.68	4.59116	-0.00003
24.0000	34.5756	5.14676	6756.08	5.14678	0.00001
29.0000	34.5682	5.66624	7033.55	5.66624	-0.00000
32.5000	34.5615	6.03656	7224.61	6.03648	-0.00009

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