Sea-Bird Scientific
13431 NE 20th Street
Bellevue, WA 98005
USA

+1 425-643-9866
seabird@seabird.com
www.seabird.com

SENSOR SERIAL NUMBER: 0455
CALIBRATION DATE: 24-Feb-22

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

COEFFICIENTS:

```
g = -1.018023e+000
h =  1.323240e-001
i = -3.081756e-004
j =  4.130121e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  8.9947e-008
```

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	2779.35	0.00000	0.00000
1.0000	34.6570	2.96364	5494.75	2.96365	0.00001
4.4999	34.6376	3.26951	5701.22	3.26951	-0.00001
15.0000	34.5958	4.24742	6315.35	4.24742	0.00001
18.5000	34.5867	4.59119	6517.16	4.59116	-0.00002
24.0000	34.5756	5.14676	6830.41	5.14679	0.00002
29.0000	34.5682	5.66624	7110.39	5.66623	-0.00001
32.5000	34.5615	6.03656	7303.16	6.03646	-0.00010

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