

Certificate of Calibration

Ocean Sonics, Ltd.

Calibration Certificate Number:

C4998

Ocean Sonics

Test Result:

10 kHz to 100 kHz: -173.0 ± 2.3

10 kHz to 200 kHz: -171.7 ± 4⁄.6

· Manufacturer **Model Number** SB35-ETH Serial Number 1273 10-Sep-2019 Manufacture Date Measurement Date 6-Dec-2019 Certificate Date 6-Dec-2019 Sensitivity @ 26 Hz -168.7 dB re V / uPa Case Type Titanium GeoSpectrum Element Manufacturer

RX Sensitivity

Complex RMS

Element Model M24HF **Element Serial** B001847

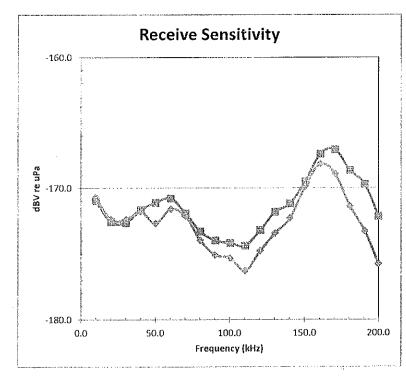
Preamp Model 04-300435-01 Calibrated By Cody Ellis W1960 Work Order Number

Test Type **Test Procedure**

Tank #3, 1 m **Test Location** 16 °C Water Temperature

TH2-SER-4F **Projector Model Projector Serial** 2210 Measurement Distance 1 m 133 dB re uPa @ 1 m **Output Level** 100.0 us / 300 ms **Tone Burst Ocean Sonics** Reference Manufacturer Reference Model RB9-ETH Reference Serial 1773 **Primary Calibration** 8-Nov-2017 **Preamp Manufacturer Ocean Sonics** 04-300434-01 Preamp Model **Preamp Serial** 912 36 dB **Preamp Gain ADC Manufacturer Ocean Sonics**

04-300423-01 **ADC Model Number ADC Serial Number** 586



Frequency	Sensitivity [dBV re µPa]	
kHz	0 deg	90 deg
10.0	-171.0	-170.7
20.1	-172.6	-172.4
30.1	-172.6	-172.4
40.2	-171.7	-171.8
50.2	-171.1	-172.7
60.2	-170.8	-171.6
70.3	-171.9	-172.1
80.3	-173.3	-174.0
90.4	-174.0	-175.1
100.4	-174.2	-175.3
110.4	-174.4	-176.3
120.5	-173.2	-174.8
130.5	-171.8	-173.4
140.5	-171.2	-172.3
150.6	-169.5	-169.9
160.6	-167.4	-168.2
170.7	-167.1	-168.9
180.7	-168.6	-171.4
190.7	-169.7	-173.3
200.0	-172.2	-175.8