

Certificate of Calibration Ocean Sonics, Ltd.

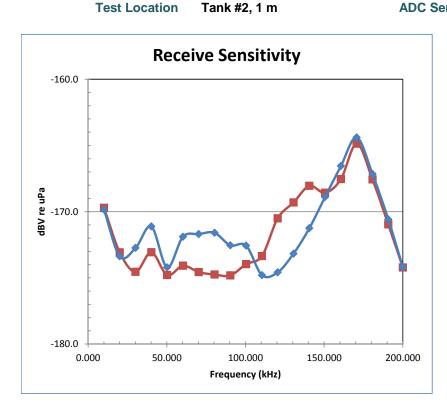
C3236 **Calibration Certificate Number:**

ADC Serial Number

Test Result: 10 kHz to 100 kHz: -172 ± 2.6

> 10 kHz to 200 kHz: -170 ± 5.0

SB35-ETH **Model Number Projector Manufacturer Ocean Sonics Serial Number** 1362 **Projector Model** TH2-SER-4F **Manufacture Date** 11-May-2015 **Projector Serial** 2210 **Measurement Date** 15-May-2015 **Measurement Distance** 1 m **Certificate Date Projector Mode** Wideband 15-May-2015 Sensitivity @ 26 Hz -168.7 dBV re µPa **Output Level** 130.8 dB re µPa @ 1.0 m **Case Type Titanium Reference Manufacturer Ocean Sonics Reference Model** SB35-ETH **Element Manufacturer GeoSpectrum Element Model** M24HF **Reference Serial** 1230 **Element Serial** 1771 **Preamp Manufacturer Ocean Sonics Software Release** 300415-01 29 **Preamp Model Calibrated By** S.MacLean **Preamp Serial** 119 **Work Order Number** W1192 **Preamp Gain** 30 dB **Test Type RX Sensitivity ADC Manufacturer Ocean Sonics Test Proecdure ADC Model Number** 04-300423-01 **Complex RMS**



Frequency	Sensitivity [dBV re µPa]	
kHz	0 deg	90 deg
10.0	-169.7	-169.8
20.1	-173.1	-173.4
30.1	-174.5	-172.7
40.2	-173.1	-171.1
50.2	-174.8	-174.2
60.2	-174.1	-171.9
70.3	-174.6	-171.7
80.3	-174.8	-171.6
90.4	-174.8	-172.5
100.4	-174.0	-172.6
110.4	-173.4	-174.8
120.5	-170.5	-174.6
130.5	-169.3	-173.2
140.5	-168.1	-171.3
150.6	-168.6	-168.9
160.6	-167.5	-166.6
170.7	-164.9	-164.4
180.7	-167.6	-167.2
190.7	-171.0	-170.6
200.0	-174.2	-174.2

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Test Location