

# Specifications 1 of 2 5.1.13

	Source	Specification	Direction	Units of measure	Marginal	Ideal	Actual	Satisfied?
S1	CN1	Lowest level of sound detected	min	dB	<60	<30	NA	Fail
S2	CN1	Frequencies amplified	max	Hz	300-7000	85-8000	200-8000	Pass
S3	CN1, CN6	Maximum amplification	target	dB	85-95	90	16.9	Fail
S4	CN5	Levels of volume adjustment	max	levels	5	20	20	Pass
S5	CN7	Time to charge earpiece	min	minutes	<60	<30	NA	Fail
S7	CN7	Connects to standard USB 2.0 computer port	target	yes/no	yes	yes	yes	Pass
S12	CN8	Earpiece battery life at maximum amplification	max	hours	>16	>48	Est. 3.5	Fail

# Specifications 2 of 2 5.1.13

	Source	Specification	Direction	Units of measure	Marginal	Ideal	Actual	Satisfied?
S8	CN11, CN12	Maximum temperature at outside surface of device	min	oF	98	110	Not Tested	Not Tested
S9	CN2, CN4, CN11	Range of adult ear size accommodated	max	percentile	25th to 75th	10th to 90th		
S10	CN4, CN6, CN10, CN11	Weight of earpiece	min	g	<15	<12	15	Pass
S14	CN3	Percent of surveyed people who identify a picture of the device as something other than a hearing aid.	max	percent	>60	>80	92.06	Pass
S15	CN3	Percent of surveyed hard of hearing people who prefer the form of the new device to standard behind the ear hearing aids	max	percent	>50	>75		
S16	CN3	Percent of surveyed hearing people who would use the device for Bluetooth or music listening	max	percent	>50	>70	91.8	Pass
S17	CN11	Percent of surveyed people who feel the device is comfortable to wear	max	percent	>60	>80		
S18	CN9	Attaches to a standard ear tube and ear mold	yes/no	yes/no	yes	yes	yes	yes
S19	CN14	Manufactured cost (estimated)	min	\$	<2000	<1000	\$415	yes