

## U.S. Certification



### SP1x w/ Foam Ear-Tips

F (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR
Mean Attenuation (dB)	40.0	42.6	43.2	40.0	39.0	43.9	46.3	47.6	47.9	31dB
Standard Deviation (dB)	3.6	4.8	5.0	4.9	3.7	4.2	4.1	2.6	3.0	
Real-Ear Protection (dB)	32.8	33	33.2	30.2	31.6	35.5	38.1	42.4	41.9	

### SP1x w/Silicone Ear-Tips (TPE)

F (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR
Mean Attenuation (dB)	33.9	34.9	31.2	29.9	33.2	38.8	40.0	41.6	42.9	25dB
Standard Deviation (dB)	4.9	5.5	3.5	2.5	3.5	4.3	5.1	3.8	3.7	
Real-Ear Protection (dB)	24.1	23.9	24.2	24.9	26.2	30.2	29.8	34.0	35.5	

Tested according to ANSI S3.19-1974

## European PPE Certification

### SP1x

Ear-Tip Type	SNR	H	M	L
SP1x w/Foam Ear-Tip	32dB	>120dB	119dB	106dB
SP1x w/Silicone Ear-Tip (TPE)	30dB	>120dB	119dB	106dB

Tested according to EN 352

## Australian/New Zealand Certification

### SP1x w/ Foam Ear-Tips

F (Hz)	125	250	500	1000	2000	4000	8000	NRR
Mean Attenuation (dB)	29.2	29.3	30.7	28.7	32.9	40.1	42.1	26dB
Standard Deviation (dB)	5.1	5.3	9.1	7.6	4.6	3.8	5.0	
Real-Ear Protection (dB)	24.1	24.0	21.6	21.1	28.3	36.3	37.1	

\*Hearing protector CLASS 5 tested to AS/NZS 1270:2002. When selected, used and maintained as specified in AS/NZS 1269, the protector may be used in noise up to 111dB(A) assuming an 85 dB(A) criterion. A lower criterion may require a higher protector class.

### SP1x w/Silicone Ear-Tips (TPE)

F (Hz)	125	250	500	1000	2000	4000	8000	NRR
Mean Attenuation (dB)	29.2	29.2	29.2	26.4	29.7	31.1	39.4	23dB
Standard Deviation (dB)	6.3	7.1	7.6	7.7	4.4	7.6	7.0	
Real-Ear Protection (dB)	22.9	22.1	21.6	18.7	25.3	23.5	32.4	

\*Hearing protector CLASS 4 tested to AS/NZS 1270:2002. When selected, used and maintained as specified in AS/NZS 1269, the protector may be used in noise up to 108dB(A) assuming an 85 dB(A) criterion. A lower criterion may require a higher protector class.