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May 10, 2013 Hearing Protective Device Test Report Number Q2923A Revision 0



MASPROT Attn: Rodrigo Salazar Zanartu Walker Martinez 5558 San Miguel, Santiago, Chile Lab Code 100427-0 Date of Sample Receipt: 4/29/13 Date of tests: 5/1/13-5/9/13

Attenuation measurements have been performed according to the American National Standards Institute (ANSI) Specifications, ANSI S3.19-1974, using the experimenter-fit protocol, on the Masprot MPA101-C inter (test ID Q2923A). The specified threshold measurement data were obtained using ten normal-hearing listeners, six male and four female. These listeners were selected from a standby group of about 35 volunteers, mostly graduate students, who regularly serve as listeners for measurements of this kind.

The measurements were made in a room designed for this purpose. All acoustic characteristics of the room meet the requirements outlined in ANSI S3.19-1974. The ambient noise levels in this room are below the limits specified in ANSI S3.19-1974, and open ear thresholds are used on a continuing basis to monitor the background noise levels. An automatic recording attenuator was used to record both open and occluded ear thresholds.

Each of ten subjects was tested three times at each of nine test frequencies. The attached Tables show grand mean attenuation values in decibels (dB) for each test signal along with group attenuation values. Standard deviations (S.D.) for the 30 different attenuation determinations for each test signal are also given. The results presented in this report pertain to the samples tested only.

Michael & Associates is accredited by the National Institute of Standards and Technology (NIST) National Laboratory Accreditation Program (NVLAP) for tests performed according to ANSI S3.19-1974, ANSI S12.6-2008 and AUS S1270:2002. These accreditation criteria encompass the requirements of international standard ISO 17025. This report may only be reproduced or transmitted electronically in its entirety. This report shall not be used to claim product endorsement by NIST, NVLAP or by any agency of the U.S. Government. All measurement equipment are calibrated with instrumentation traceable to the NIST.

Use these laboratory-derived attenuation data for comparison purposes only. The amount of protection afforded in field use is often significantly lower depending on how the protectors are fitted and worn.

Kevin Michael, Ph.D.

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President

Date

5/9/17

Individual and Summary Attenuation Data for Hearing Protective Devices

Test Method: ANSI S3.19-1974 Position: Cap-mount

Manufacturer: Masprot Date: 5/9/13

Model: MPA-101C inter Test ID # Q2923A

	lest ID	#	Q2923P	
FREQUENCY IN HERTZ				
000 3150	4000	6300	8000	
38 37	39	40	41	
36 38	38	39	41	
36 38	39	40	41	
41 41	41	42	42	
41 42	41	44	44	
41 40	40	44	42	
36 33	32	35	35	
36 35	37	33	32	
36 34	35	32	36	
36 35	40	41	37	
38 35	41	41	39	
39 35	42	42	39	
34 33	37	37	37	
32 28	39	36	38	
30 31	41	40	39	
36 34	32	30	30	
36 34	33	31	32	
38 35	33	33	30	
33 33	37	36	33	
32 35	30	36	33	
31 31	30	35	34	
29 31	30	33	32	
26 31	31	34	32	
28 31	30	34	31	
38 37	40	36	32	
38 39	41	36	32	
38 39	41	36	33	
33 27	38	39	29	
33 27	38	36	29	
33 33	31	38	31	
5.0 34.4	36.6	36.9	35.2	
3.9 3.8	4.3	3.8	4.4	
	36 35 38 35 39 35 34 33 32 28 30 31 36 34 38 35 33 33 32 35 31 31 29 31 26 31 28 31 38 39 38 39 33 27 33 27 33 33 5.0 34.4	36 35 40 38 35 41 39 35 42 34 33 37 32 28 39 30 31 41 36 34 32 36 34 33 38 35 33 33 33 37 32 35 30 31 31 30 29 31 30 26 31 31 28 31 30 38 39 41 38 39 41 33 27 38 33 27 38 33 27 38 33 33 31	36 35 40 41 38 35 41 41 39 35 42 42 34 33 37 37 32 28 39 36 30 31 41 40 36 34 32 30 36 34 33 31 38 35 33 33 33 33 37 36 31 31 30 35 32 35 30 36 31 31 30 35 32 31 30 35 32 31 30 33 36 31 31 34 38 37 40 36 38 39 41 36 38 39 41 36 33 27 38 39 33 37 38 39 33 27 38 39 33	

NRR = 21 dB Headband force = 2.4 lbs

Use these laboratory-derived data for comparison purposes only. The amount of protection afforded in field use is often significantly lower depending on how the protectors are fitted and worn.

Manufacturer:

Masprot

Date: Test ID: 5/9/13 Q2923A

Model:

MPA-101C inter

Position: Cap-mount

Measurements were made according to American National Standards Institute Specifications ANSI S3.19-1974.

Center Frequency in Hz	Mean Attenuation in dB	Group Attenuation in dB	Standard Deviation in dB
125	15.5	33.5	3.1
250	18.0		2.4
500	25.2		2.6
1000	32.8		3.9
2000	35.0	164.0	3.9
3150	34.4		3.8
4000	36.6		4.3
6300	36.9	72.1	3.8
8000	35.2		4.4

Test Item: Q2923A



These data were obtained through measurements made at the laboratories of Michael & Associates, Inc., State College, PA, USA. Michael & Associates, Inc., is accredited to test to ANSI S3.19-1974, ANSI S12.6-2008, ANSI S12.42-2010, EN352 parts 1-8 and AS/NZ S1270:2002 by the National Institute of Standards and Technology (NIST) National Voluntary Laboratory Accreditation Program (NVLAP).

Kevin L. Michael, Ph.D.

Date

5/9/13

President