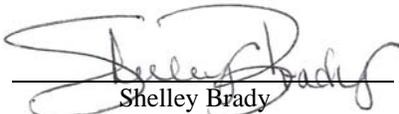




Test Report # T12191-01-1 Issue 1
ANSI S3.19 - 1974
Zhejiang Nicety Technology Co., Ltd.
NTR – Ear Muffs
09 March 2018

Prepared by:



Shelley Brady
Laboratory Administrator

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 Luqiao District, Taizhou City, Zhejiang
 China

Date: 09 March 2018
 Report: T12191-01-1
 Issue: 1
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Objective:

Contract testing according to ANSI S3.19 – 1974 “Ear Muffs”.

Sample(s):

Model No./Name:	NTR (ear muff) / NTR (industrial safety helmet) (Red and Yellow Ear Defenders Ear Muffs)
Product Type:	Ear Muff attached to Industrial Safety Helmet
Quantity:	5 / 5
Date(s) Received from Client:	08 February 2018
Date(s) Submitted for Testing:	21 February 2018

Summary:

Test Report:	*	Q4852A	(3 pages)
Date Samples Received:		22 February 2018	
Date of Report:		08 March 2018	
Date(s) of Test:		22 February 2018 – 08 March 2018	
Test Subjects Used:		10	
Tested Position:		Cap Mounted	
Rating Calculation:		24 dB	

Note: Ear muffs were mounted onto helmets by testing laboratory

ANSI S3.19 - 1974	Compliant	Non-Compliant
	X	

*The attached test report provided by Michael & Associates, Inc.
 Michael & Associates, Inc. is accredited by the National Institute of Standards and Technology
 (NIST) National Voluntary Laboratory Accreditation Program (NVLAP).

Hearing Protective Device Test Report Number Q4852A Revision 0

ICS

Attn: Shelley Brady
1072 Industrial Parkway North
Brunswick, OH 44212



TESTING
NVLAP LAB CODE 100427-0

Technician: Eileen Kline

Date of Report: 3/8/18
Date of testing: 2/22/18-3/8/18
Date of Sample Receipt: 2/22/18

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 ICS Client NTR cap-mounted muff-type hearing protector (test ID Q4852A). The specified threshold measurement data were obtained using ten normally-hearing listeners, six male and four female. These listeners were selected from a standby group of about 35 volunteers 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.

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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., President

3/8/18

Date

**Individual and Summary Attenuation Data for
Hearing Protective Devices**

Test Method: ANSI S3.19-1974
 Manufacturer: ICS Client
 Model: NTR

Position: Cap-mount
 Date: 3/8/18
 Test ID: Q4852A

SUBJECT	Attenuation in dB								
	125	250	Center Frequency in Hz			3150	4000	6300	8000
			500	1000	2000				
1	16	24	32	36	40	37	37	34	39
	12	21	31	36	40	36	36	34	39
	13	20	29	36	40	36	38	33	40
2	19	21	30	37	40	34	36	32	33
	17	19	29	37	40	34	37	34	33
	18	20	28	38	40	34	37	36	36
3	17	22	32	43	41	39	35	30	37
	15	21	31	42	39	39	34	29	38
	17	22	32	43	39	40	34	29	36
4	21	19	26	37	38	39	35	34	38
	20	21	25	33	38	44	37	36	38
	19	15	26	40	44	40	35	38	38
5	18	23	29	36	34	35	33	32	34
	16	22	28	34	36	36	35	33	38
	11	21	28	36	36	36	34	31	35
6	20	24	25	34	37	40	34	33	35
	18	22	20	34	36	36	36	33	34
	16	22	23	31	35	34	34	33	33
7	15	21	33	36	37	37	32	34	33
	15	22	33	36	34	34	34	34	31
	15	20	30	35	34	32	31	29	33
8	17	23	28	40	38	41	39	33	40
	23	22	28	39	34	42	36	35	39
	20	18	26	38	36	42	38	34	41
9	16	17	26	35	34	39	36	27	30
	15	18	28	35	35	37	35	27	30
	17	17	27	37	36	35	36	29	30
10	21	20	26	38	34	35	33	32	33
	16	20	27	41	33	33	34	31	34
	17	19	26	40	34	36	35	32	35
MEANS	16.9	20.5	28.1	37.0	37.0	37.0	35.1	32.4	35.3
STD. DEV.	2.7	2.1	3.0	2.8	2.7	3.1	1.8	2.6	3.2

NRR = 24 dB

Headband force = 2.3 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: ICS Client
Model: NTR
Position: Cap-mount

Date: 3/8/18
Test ID: Q4852A

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	16.9	37.4	2.7
250	20.5		2.1
500	28.1		3.0
1000	37.0		2.8
2000	37.0	174.3	2.7
3150	37.0		3.1
4000	35.1		1.8
6300	32.4	67.8	2.6
8000	35.3		3.2

Test Item: Q4852A



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 S12.6-2016, 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.
President

Date *3/8/18*

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