

**This Certificate details the results of Hearing Protector testing carried out by  
The National Acoustic Laboratories**

**NAL Certificate No: 040408 Test Series: 138A**

**Device Tested: HNP-11 Communications Earmuff**

**Manufacturer: Mobile One Australia Pty Ltd**

**Date Tested: 28th April 2004 to  
12th May 2004**

**Test Commissioned By: Mobile One Australia Pty Ltd**

Headband communications earmuff with height adjustable black earcup, white high density foam against inside of earcup, red plastic insert with grey polyurethane foam infill containing communications earphones and wiring. Black foam filled soft plastic earcushions. Rigid black plastic swivel attachments connecting the earcups to the dual steel wire headband enabling earcup height and angle adjustment. Quilted soft black plastic headband pad with leather/velcro outer sleeve inside which the earcup connection wiring passes through. External wiring terminated on one earmuff.

**Description Of  
Device Tested**



**This hearing protector device has been tested mechanically, and its sound attenuation was measured in accordance with Australian and New Zealand Standard AS/NZS 1270-2002.**

Subject ID	Mean Reference Thresholds re 20µPa						
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	29.3	22.3	12.2	8.4	6.9	7.3	11.3
Real-ear attenuation values (dB) at designated octave frequencies							
Subject ID	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
S1	11	21	33	34	27	40	42
S2	16	22	30	33	30	42	36
S3	19	22	28	27	30	35	30
S4	17	17	30	33	23	36	37
S5	19	21	34	38	36	42	38
S6	15	19	30	27	29	39	38
S7	16	19	27	35	30	38	45
S8	23	20	25	28	34	42	36
S9	15	21	35	35	29	44	41
S10	18	22	35	37	32	50	37
S11	16	22	35	35	35	43	35
S12	20	21	36	33	33	43	42
S13	23	24	34	38	34	45	30
S14	23	21	33	37	31	37	42
S15	20	19	30	31	31	42	47
S16	14	18	35	37	23	38	45
S17	20	21	35	35	31	39	41
S18	13	19	22	28	25	35	37
S19	14	21	33	23	28	35	39
S20	22	21	33	39	32	43	39
S21	21	20	31	35	26	38	41
S22	20	20	31	31	23	38	40
<b>Mean</b>	<b>17.9</b>	<b>20.5</b>	<b>31.6</b>	<b>33.1</b>	<b>29.5</b>	<b>40.1</b>	<b>39.0</b>
<b>Standard Deviation</b>	<b>3.4</b>	<b>1.6</b>	<b>3.7</b>	<b>4.3</b>	<b>3.8</b>	<b>3.8</b>	<b>4.3</b>
<b>Mean minus SD</b>	<b>14.5</b>	<b>18.9</b>	<b>27.9</b>	<b>28.8</b>	<b>25.7</b>	<b>36.3</b>	<b>34.7</b>

  
Accredited for AS/NZS 1270:2002  
Registered Lab No. 5472

<b>SLC80 Rating</b>	<b>28</b>
<b>CLASS</b>	<b>5</b>
<b>Clamping Force</b>	<b>10.1 Newtons</b>

**Average device  
mass =  
393 grams**

**Signatory:**  **Dated:** 15/7/04  
(Geoff Colin-Thome - Acoustic Test Facility)

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