

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

**NAL Certificate No:** 040406      **Test Series:** 138A

**Device Tested:** HSP-1 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

**Description Of  
Device Tested**

Headband communications earmuff. Dark-green plastic earcups with soft black plastic combination foam-fill/foam-sac earpads. Grey foam infill containing communications earphones and wiring. Rigid black plastic swivel attachments connecting the earcups to the dual steel wire headband enabling earcup height and angle adjustment. Quilted foam-filled soft black plastic headband pad with leather/velcro outer sleeve inside which the earcup connection wiring passes through. Flexible boom microphone (via coaxial connector) attached to, and external wiring terminated on LEFT Earmuff.



***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.***

	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
Subject ID	Real-ear attenuation values (dB) at designated octave frequencies						
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
S1	11	22	32	40	32	35	43
S2	16	23	27	37	34	45	42
S3	21	21	26	33	40	34	27
S4	15	13	28	30	28	37	45
S5	16	21	31	31	38	36	38
S6	12	22	31	27	30	39	41
S7	13	20	28	37	34	37	45
S8	18	18	27	28	33	44	40
S9	13	21	32	37	35	42	44
S10	20	25	35	38	43	46	44
S11	14	20	31	35	40	40	43
S12	20	23	36	33	40	43	49
S13	21	25	35	41	28	45	36
S14	16	19	30	38	39	35	31
S15	16	21	32	33	41	45	46
S16	19	19	32	41	37	36	50
S17	18	24	34	32	38	36	43
S18	9	15	27	33	33	40	46
S19	10	21	34	37	39	40	45
S20	16	19	26	36	37	41	41
S21	20	24	32	35	37	40	40
S22	19	18	24	34	33	35	40
<b>Mean</b>	<b>16.0</b>	<b>20.7</b>	<b>30.4</b>	<b>34.8</b>	<b>35.8</b>	<b>39.6</b>	<b>41.8</b>
<b>Standard Deviation</b>	<b>3.5</b>	<b>3.0</b>	<b>3.3</b>	<b>3.8</b>	<b>4.1</b>	<b>3.8</b>	<b>5.3</b>
<b>Mean minus SD</b>	<b>12.5</b>	<b>17.7</b>	<b>27.1</b>	<b>31.0</b>	<b>31.7</b>	<b>35.8</b>	<b>36.5</b>

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

<b>SLC80 Rating</b>	<b>31</b>
<b>CLASS</b>	<b>5</b>
<b>Clamping Force</b>	<b>10.4 Newtons</b>

**Average device mass  
(with Microphone)  
= 423 grams**

**Signatory:**  ..... **Dated:** 15/7/04 .....

(Geoff Colin-Thorne - Acoustic Test Facility)

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