



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

NAL Certificate No: 040704 **Test Series:** 140A

Device Tested: HSP- 5 Helmet Mounted
 Communications Earmuff

Manufactured By: Mobile One

Date Tested: 12th July 2004 to

16th August 2004

Test Commissioned By: Mobile One Australia P/L



**Description of
 Device Tested:**

Helmet mounted communications earmuff with dark-green plastic earcups and soft black combination plastic foam-fill/oil-sac earpads. Grey foam infill containing communications earphones and wiring. Rigid black plastic swivel attachments connecting the earcups to the dual steel wire helmet attachment enabling earcup height and angle adjustment. Earcup interconnection wiring passes through the inside of the helmet above the webbing. Coaxial connector for detachable microphone boom and wiring terminated on LEFT earcup. Earmuffs mounted on Protector HC600 safety helmet.

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 20uPa						
125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
32.3	24.1	12.9	9.7	8.8	6.7	11.6

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	18	20	23	33	32	44	45
S2	13	19	29	33	38	38	46
S3	24	21	26	36	40	42	47
S4	19	25	30	36	35	37	50
S5	12	17	28	28	36	34	45
S6	15	20	33	35	45	45	56
S7	13	19	30	30	36	39	51
S8	15	19	30	23	33	36	48
S9	10	17	30	31	35	39	48
S10	14	16	21	27	31	33	45
S11	15	16	28	30	34	33	35
S12	21	20	26	30	37	40	48
S13	24	24	32	36	36	35	41
S14	8	13	20	25	33	35	42
S15	10	19	28	31	33	38	44
S16	20	25	31	25	36	42	50
S17	16	21	28	31	28	40	50
Mean	15.7	19.5	27.6	30.6	35.0	38.3	46.3
Standard Deviation	4.7	3.2	3.7	3.9	3.7	3.6	4.7
Mean minus SD	11.0	16.3	23.9	26.7	31.3	34.7	41.6


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

SLC80 Rating CLASS	28	Average total mass of device = 750g (Mass of Helmet = 350g)
	5	
Clamping Force	11 Newtons	

Signatory:  **Dated:** 18/8/04
 (Geoff Colin-Thome, NAL Research, Acoustic Test Facility)

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