

Australian/New Zealand Standard

Hearing aids

Part 9: Immunity requirements and methods of measurement for hearing aids exposed to radiofrequency fields in the frequency range 300 MHz to 3 GHz

AS/NZS 1088.9:1995

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee TE/3, Electromagnetic Interference. It was approved on behalf of the Council of Standards Australia on 10 May 1995 and on behalf of the Council of Standards New Zealand on 15 May 1995. It was published on 5 July 1995.

The following interests are represented on Committee TE/3:

Association of Consulting Engineers, Australia
Association of New Zealand Electrical Appliance Distributors
Australian Broadcasting Corporation
Australian Chamber of Commerce and Industry
Australia Electrical and Electronic Manufacturers Association
Australian Information Industry Association
Australian Telecommunications Authority
Consumer Electronics Suppliers Association, Australia
CSIRO—Division of Applied Physics, Australia
Department of Communications and the Arts, Australia
Department of Defence, Australia
Electrical Compliance Testing Association, Australia
Electricity Supply Association of Australia
Federation of Australian Commercial Television Stations
Federation of Australian Radio Broadcasters
Ministry of Commerce, Communications Division, New Zealand
National Standards Commission, Australia
Optus Communications
Public Transport Corporation (Melbourne)
Society of Automotive Engineers, Australia
Spectrum Management Agency, Australia
Telecom Australia
Wireless Institute of Australia

Additional interests participating in preparation of Standard:

National Association of Testing Authorities, Australia
Australia Acoustical Society
Better Hearing Australia
National Acoustic Laboratories
Phonak Australia

Review of Standards. To keep abreast of progress in industry, Joint Australian/New Zealand Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Joint Standards and related publications will be found in the Standards Australia and Standards New Zealand Catalogue of Publications; this information is supplemented each month by the magazines 'The Australian Standard' and 'Standards New Zealand', which subscribing members receive, and which give details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Joint Standards, addressed to the head office of either Standards Australia or Standards New Zealand, are welcomed. Notification of any inaccuracy or ambiguity found in a Joint Australian/New Zealand Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

This Standard was issued in draft form for comment as DR 94348.

Australian/New Zealand Standard

Hearing aids

Part 9: Immunity requirements and methods of measurement for hearing aids exposed to radiofrequency fields in the frequency range 300 MHz to 3 GHz

PUBLISHED JOINTLY BY:

STANDARDS AUSTRALIA
1 The Crescent,
Homebush NSW 2140 Australia

STANDARDS NEW ZEALAND
Level 10, Standards House,
155 The Terrace,
Wellington 6001 New Zealand

ISBN 0 7262 9837 9

 **Documents**
Document Sharing Hub

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee TE/3 on Electromagnetic Interference with input from Subcommittee AV/3/3 on Audiology as one of a series of Standards intended to facilitate the control of electromagnetic emissions and immunity of electrical and electronic equipment.

It specifically deals with immunity levels for hearing aids with acoustic outputs. This requirement arises from the evidence that a number of electromagnetic emitters which may operate in the vicinity of hearing aids interact with them, resulting in acoustic interference to the hearing aid user.

Currently no international Standard is in place to fulfil this requirement. The Committee proceeded with this publication on the basis that the widespread introduction of personal radiocommunication systems using amplitude modulation of the carrier indicates a need for specification and standardized methods of measurement. It is the intention of the Committee to review this Standard as soon as an international Standard becomes available with a view to adopting the international version.

This Standard describes immunity requirements; methods of setting up the hearing aid and the radiofrequency fields; as well as describing how the controls of the hearing aid should be set and how the output should be measured.

At the time of publication, the referenced editions indicated in this Standard were valid. All normative documents are subject to revision, and parties to agreements based on this Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents. Members of IEC and ISO maintain registers of currently valid normative documents.

© Copyright — STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Users of Standards are reminded that copyright subsists in all Standards Australia and Standards New Zealand publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia or Standards New Zealand may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia or Standards New Zealand. Permission may be conditional on an appropriate royalty payment. Australian requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia. New Zealand requests should be directed to Standards New Zealand.

Up to 10 percent of the technical content pages of a Standard may be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia or Standards New Zealand.

Inclusion of copyright material in computer software programs is also permitted without royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia or Standards New Zealand at any time.

CONTENTS

	<i>Page</i>
1 SCOPE	4
2 REFERENCED AND RELATED DOCUMENTS	4
3 DEFINITIONS	4
4 CLASSIFICATION	5
5 IMMUNITY LIMITS	5
6 TEST EQUIPMENT	6
7 METHOD OF TEST	7

First published as AS/NZS 1088.9:1995.

Incorporating:
Amdt 1—1996