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13. ABSTRACT (Maximum 200 words) Knowledge of the dielectric properties of biological materials is of importance in solving electromagnetic interaction problems. There is, as yet, no consensus on such data among scientists dealing with these issues. This project is geared towards producing a database of dielectric data based on measurements using recently developed techniques. This has been achieved through measurement over a wide frequency range. The new data were evaluated by comparison with corresponding data from the literature where available. To facilitate the incorporation of the dielectric data in numerical solutions, their frequency dependence was modelled to a spectrum characterised by 4 dispersion regions. The conductivity of tissues below 100 Hz was estimated from the recent measurements mitigated by data from the literature and used to estimate the conductivity of the whole body and of various body parts.				
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**COMPILATION OF THE DIELECTRIC PROPERTIES OF BODY
TISSUES AT RF AND MICROWAVE FREQUENCIES**

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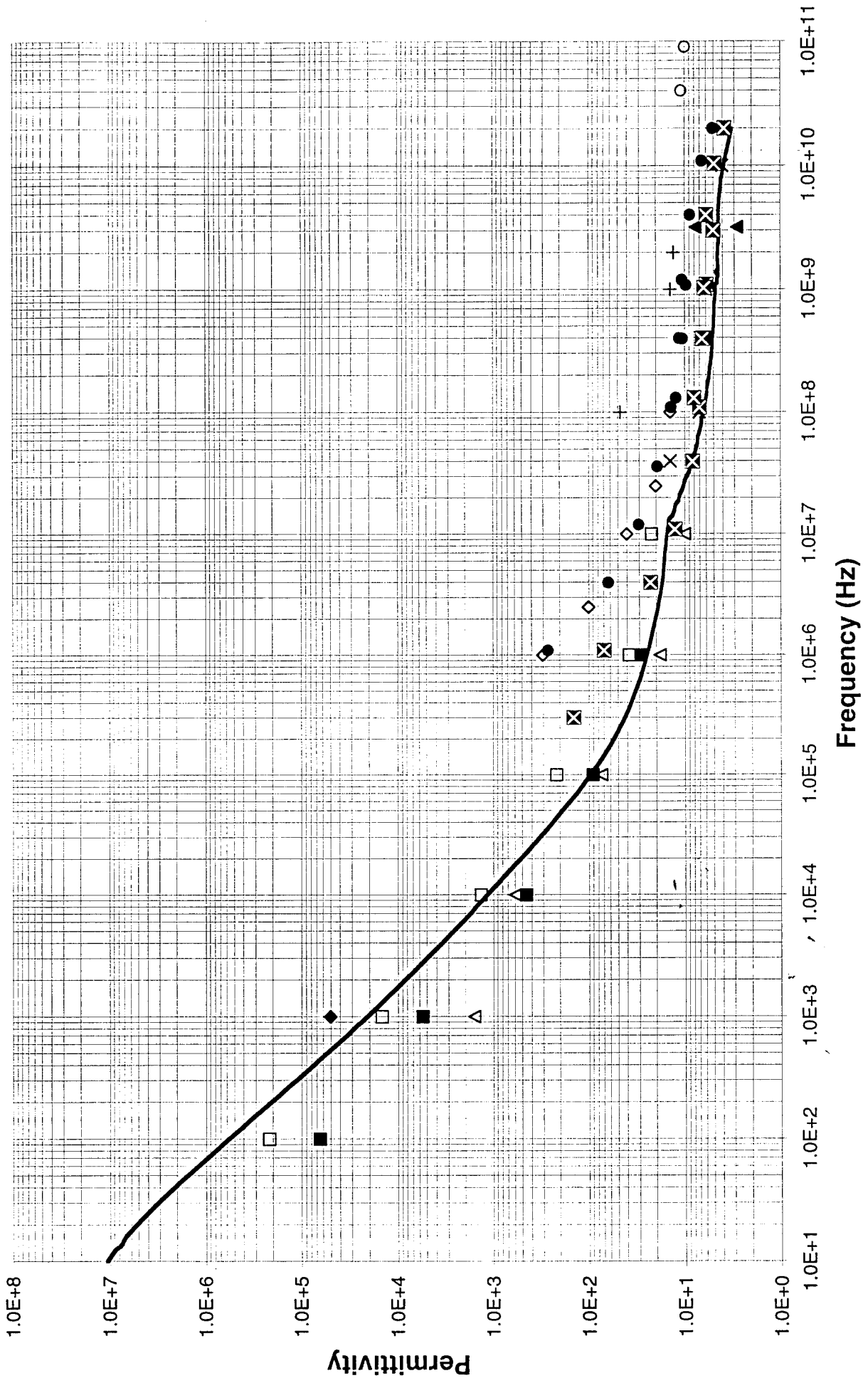
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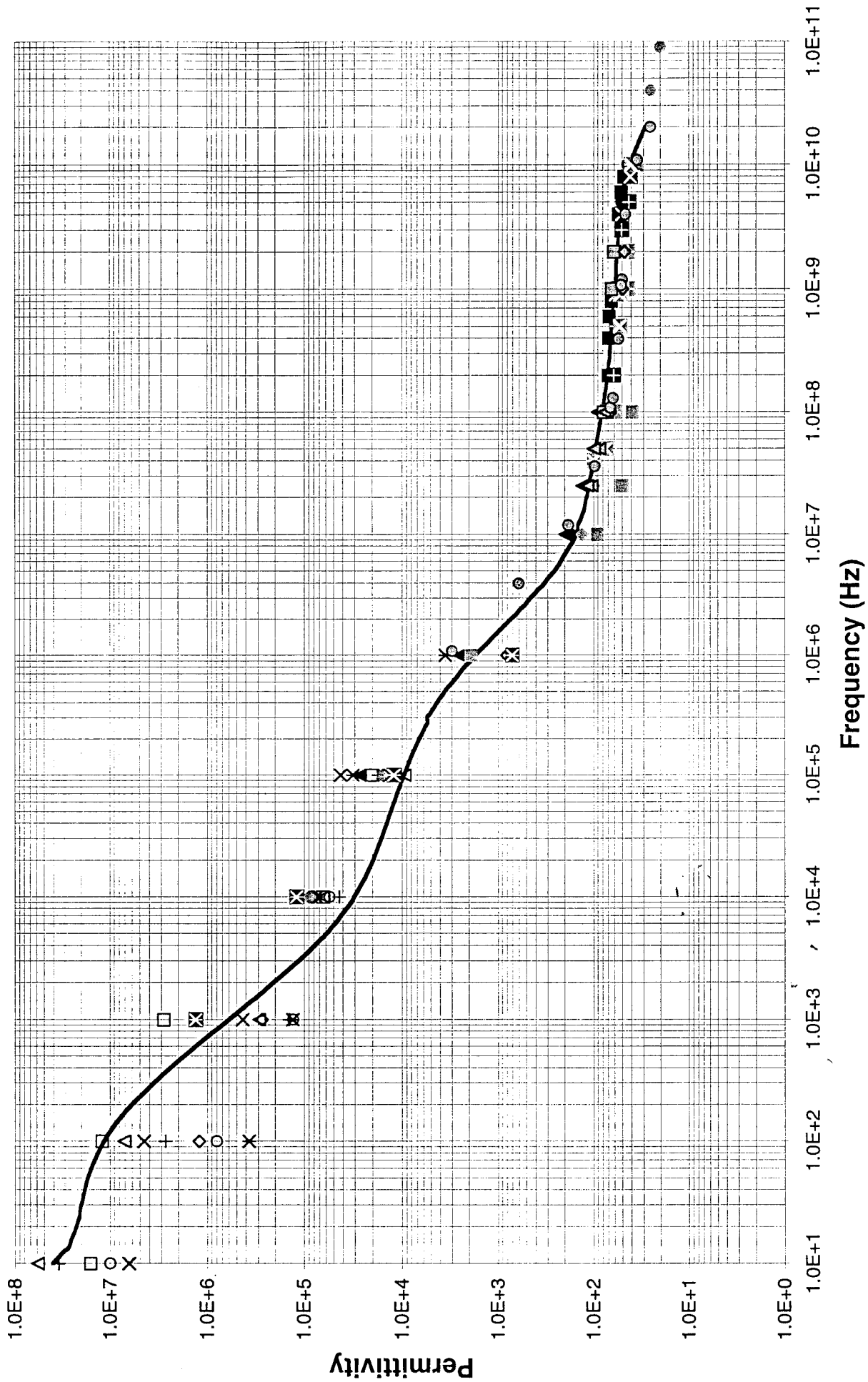
TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION.....	1
EXPERIMENTAL TECHNIQUES.....	2
Techniques.....	2
Uncertainties.....	6
Materials.....	6
RESULTS.....	7
Measurements Across The Frequency Range.....	7
LITERATURE SURVEY.....	11
Review of the Dielectric Properties of Tissues.....	11
Presentation of Data.....	12
DATA ANALYSIS.....	12
Parametric Description of the Dielectric Spectrum.....	12
THE DIELECTRIC PROPERTIES BELOW 100 Hz.....	13
Electrical properties of Body Tissues.....	13
Electrical properties of Body Parts.....	13
CONCLUSIONS.....	15
REFERENCES.....	16
APPENDIX A: Experimental Data.....	17
APPENDIX B: Literature Survey.....	37
APPENDIX C: Frequency Dependence Models.....	149
APPENDIX D: Tabulation of Experimental Data.....	195

Fat



Muscle



Muscle

