

Telecommunications equipment – Subscriber equipment – Technical requirements for cordless telephone CT1

Telekommunikationsutrustning – Abonentutrustning – Tekniska krav för sladdlös telefon CT1

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0 Introduction

This edition gives an explicit interpretation of the reference to SS 63 63 41, clause 3, corrects some mistakes in the sending frequency response curve, at points C, D and E, and finally deletes annex A.

Edition 3 resulted from a general review of Swedish standards for attachment to a PSTN in order to align their mandatory content with the requirements of the teleterminal directive (91/263/EEC).

The main changes in edition 3 were:

- clause 3: reference was made to I-ETS 300 235;
- clause 4: the requirements for frequency response and distortion were relaxed;
- Annex A (former clause 6): the provisions were deleted from the mandatory part and the text included in this informative annex; calls between a standard telephone connected to or integrated into the fixed part and the portable part are now allowed as specified in subclause 4.3.9 of I-ETS 300 235.

By edition 3 the Swedish language version of SS 63 63 37 was withdrawn.

1 Scope

This standard covers analogue connection of analogue cordless telephones to a public switched telephone network in Sweden.

2 References

The following standards contain requirements which, through reference, also constitute requirements of this standard. All standards 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 standards listed below.

European Telecommunication Standard:

I-ETS 300 235 Radio Equipment and Systems (RES); Technical characteristics, test condition and methods of measurement for radio aspects of cordless telephones CT1

Swedish standard:

SS 63 63 41 Telecommunications equipment – Subscriber equipment – Technical requirements for analogue handset telephony

3 Technical requirements, radio aspects

The requirements in I-ETS 300 235 are applicable.

4 Technical requirements, telephony

4.1 General

When measuring the transmission characteristics, the fixed part and the portable part shall be placed in an environment practically free from reflection as regards the radio frequency signal. The distance between the parts shall correspond to at least half a wavelength (which means that the receiver is outside the near-field region of the transmitter). Considering the frequencies used, the distance shall be at least 0,17 m.

At the same time, the distance between the parts shall not be so great as to create noticeable additional noise due to a too low signal level into the receiver.

SS 63 63 41 shall be followed for the fixed part and the associated portable part, with the following differences:

- Clause 4.3 Frequency response
The provisions of SS 63 63 41 shall be replaced by the requirements in clause 4.2 of this standard.
- Clause 4.5 Distortion
Only the distortion requirements at 1 kHz are applicable.
- Clause 4.7 Noise
The noise level at receiving shall not exceed -44 dBPa, with A weighting.

4.2 Frequency response

The frequency response curve shall fall within the masks given in figures 1 and 2, and the corresponding tables 1 and 2. The measurement during sending shall be carried out with constant sinusoidal sound pressure (as a function of frequency). The measurement during receiving shall be carried out with constant emf.

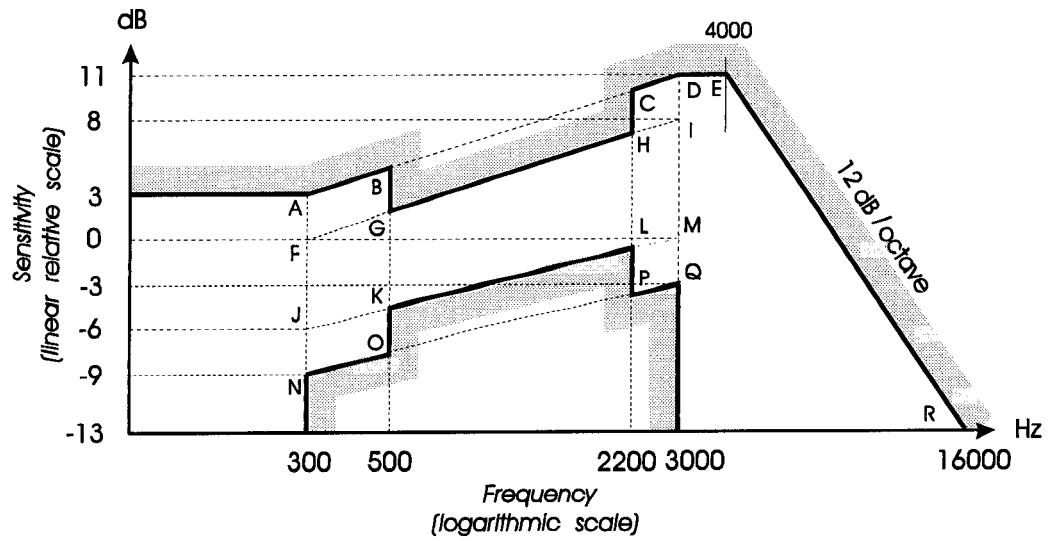


Figure 1 – Sending frequency response curve

Table 1 – Sending sensitivity-frequency mask

Point	Frequency Hz	Level dB
A	300	3
B	500	4,8
C	2200	9,9
D	3000	11
E	4000	11
F	300	0
G	500	1,8
H	2200	6,9
I	3000	8
J	300	-6
K	500	-4,6
L	2200	-0,8
M	3000	0
N	300	-9
O	500	-7,6
P	2200	-3,8
Q	3000	-3
R	16000	-13

NOTE – All dB levels are on an arbitrary scale

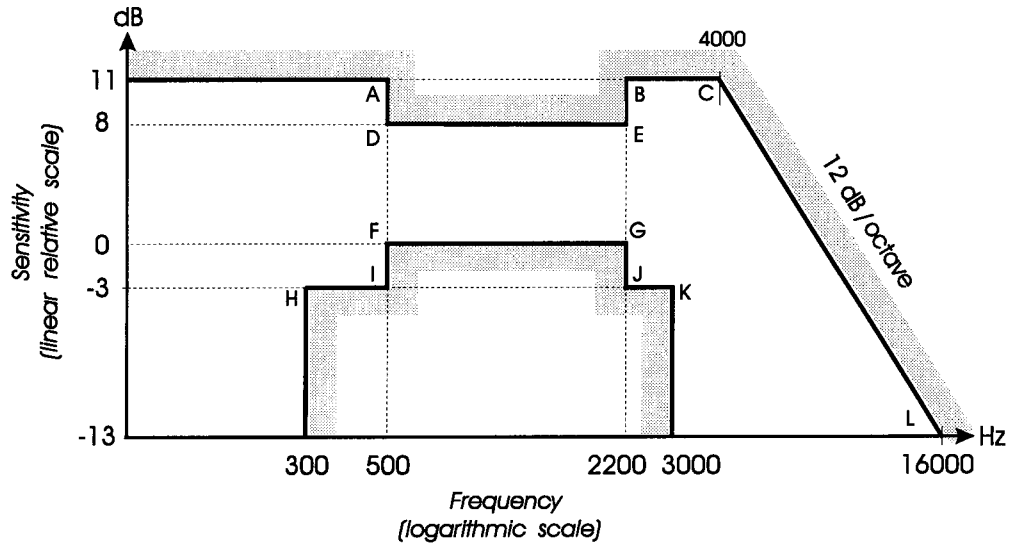


Figure 2 – Receiving frequency response curve

Table 2 – Receiving sensitivity-frequency mask

Point	Frequency Hz	Level dB
A	500	11
B	2200	11
C	4000	11
D	500	8
E	2200	8
F	500	0
G	2200	0
H	300	-3
I	500	-3
J	2200	-3
K	3000	-3
L	16000	-13

NOTE – All dB levels are on an arbitrary scale

5 Group delay

The minimum group delay in the 500 – 2 800 Hz frequency band shall be measured in both transmission directions between the fixed part interface and the acoustic interface of the portable part. The sum of the delays in the two directions shall not exceed 4 ms.