

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Amendment No. 1

to

AS/NZS 4053:1997

Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment

REVISED TEXT

The 1997 edition of AS/NZS 4053 is amended as follows; the amendments should be inserted in the appropriate places. Page number references should be ignored.

SUMMARY: This Amendment applies to the Contents, Clauses 1 and 2, Subclauses 3.3, 3.4, 4.2.1, 4.2.5, 4.2.6, 4.3, 4.3.1, 4.3.1.1, 4.3.1.2, 4.3.2, 5.6.4, 5.6.5, Tables 12 and 13b, Figure 34 and Annex D.

The text of this Amendment is reproduced from and is identical with CISPR 20 Amendment 1:1997 and CISPR 20 Amendment 2:1997.

Published on 25 May 2000.

Approved for publication in New Zealand on behalf of the Standards Council of New Zealand on 27 April 2000.

FOREWORD

This amendment has been prepared by CISPR subcommittee E: Interference relating to radio receivers.

The text of this amendment is based on the following documents:

FDIS	Report on voting
CISPR/E/129/FDIS	CISPR/E/148/RVD

Full information on the voting for the approval of this amendment can be found in the report on voting indicated in the above table.

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Add the title of annex D as follows:

D Generator for unwanted signal type G

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4.2.1 Television receivers

Add the following sentence at the end of the first paragraph:

... or to an unwanted signal in channel M and of the following type (A, B₁, F and G) as specified in tables 12a and 13b:

Add the new signal B1 after signal B:

B₁: two unmodulated signals, one at the relevant picture carrier frequency $f_N - 0,25$ MHz and level -19 dB, the other at the relevant picture carrier frequency $f_N + 0,25$ MHz and level $-9,5$ dB, as given in table 13b;

Add the new signals F and G after signal E:

F: See notes below table 12a.

G: one pulsed unmodulated signal at the relevant picture carrier frequency $f_N + 10,125$ MHz, pulse width $t_d = 60$ μ s, pulse frequency 200 Hz ($T = 5$ ms), and if possible synchronized with the field frequency of the wanted signal generator (see figure D.1), level as given in table 13b.

Replace the note at the end of the page by the following:

NOTE – Limits for television receivers for systems different from those shown in the following tables are under consideration.

Table 12

Replace existing table 12 by the following:

Table 12 – Limits of internal immunity of television receivers for systems B, G and I to unwanted signals inside the television bands

Wanted channel N	Unwanted signal in channel M						Type
	Level dB (μV)						
	M = N – 5	N – 1	N + 1	N + 5 ²⁾	N + 9 ²⁾	N + 11	
N _i , and N _{iii} and N _{H1}	–	73	73	–	68 ¹⁾	–	A
	–	61	61	–	56 ¹⁾	–	B
	70	73 – x	73 – x	70	68 – x ¹⁾	68	C or C ₁
	–	73 – y	73 – y	–	68 – y ¹⁾	–	C ₂
	70	–	–	70	–	68	D
N _{iv}	–	77	77	80	68	–	A
	–	65	65	68	56	–	B
	74	77 – x	77 – x	80 – x	68 – x	–	C or C ₁
	–	77 – y	77 – y	80 – y	68 – y	–	C ₂
	74	–	–	–	–	–	D
N _v	80	77	77	80	–	–	A
	68	65	65	68	–	–	B
	80 – x	77 – x	77 – x	80 – x	62	–	C or C ₁
	80 – y	77 – y	77 – y	80 – y	–	–	C ₂
	–	–	–	–	62	–	D
For systems B and G							
x = 13 dB, y = 20 dB							
For system I (monophonic only)							
x = 10 dB							
1) Only for hyperband N _H .							
2) These levels only apply for television systems with a channel spacing of 8 MHz and an IF of 38,9 MHz. For other channel spacing and IF frequencies different image channel or local oscillator interference constraints may apply.							

Add the following new lines

– below the line starting by Channel N_V :

Channel N_{H1} in hyperband nearest to 375 MHz (table 12)

Channel N_{H2} in hyperband nearest to 363 MHz and

Channel N_{H3} in hyperband nearest to 423 MHz (table 13b)

– below the line starting by – band V:

– hyperband from 302 MHz to 470 MHz