SLOVENSKI STANDARD
SIST ETS 300 197/A1 E1:2000

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Prenos in multipleksiranje (TM) - Parametri radiorelejnih sistemov za prenos digitalnih signalov in analognih video signalov, ki delujejo v frekvenčnem področju 38 GHz

Transmission and Multiplexing (TM); Parameters for radio relay systems for the transmission of digital signals and analogue video signals operating at 38 GHz

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ICS:

33.040.20	Prenosni sistem	Transmission systems
33.060.30	Radiorelejni in fiksni satelitski komunikacijski sistemi	Radio relay and fixed satellite communications systems

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AMENDMENT

ETS 300 197
A1

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ICS: 33.080

Key words: Transmission, radio, video

This amendment A1 modifies
the European Telecommunication Standard ETS 300 197 (1994)

Transmission and Multiplexing (TM); Parameters for radio relay systems for the transmission of digital signals and analogue video signals operating at 38 GHz

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Foreword

This Amendment to ETS 300 197 (1994) has been produced by the Transmission and Multiplexing (TM) Technical Committee of the European Telecommunications Standards Institute (ETSI).

Transposition dates	
Date of latest announcement of this ETS (doa):	31 July 1995
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	31 January1996
Date of withdrawal of any conflicting National Standard (dow):	31 January 1996

Amendments

Page 8, subclause 4.1.2

Delete subclause 4.1.2 and replace it with the following:

4.1.2 Co-polar channel spacing for like carriers

For systems operating on the same antenna, see subclause 4.3, item a).

Table 1a shows the channel spacing arrangement for low-capacity systems utilising 2-state modulation schemes.

For low, medium and high capacity systems utilising more spectrally efficient modulation schemes, a common 3,5 MHz raster shall still be used. For this case, the channel spacing arrangements are shown in table 1b.

Table 1a: Digital systems with 2-state modulation

Minimum bit rate (Mbit/s)	2	8
Channel spacing (MHz)	7	14

Table 1b: Digital systems with four or more modulation states

Minimum bit rate (Mbit/s)	2	2 x 2	8	34	34	140/155
Channel spacing (MHz)	3,5	3,5	7	28	56	140

Table 2 shows the channel spacing arrangements for various video base-bands.

Table 2: Analogue systems

Video baseband (MHz)	< 3,5	< 6	< 10	< 14
Channel spacing (MHz)	28	56	56	56

Page 14, table 6

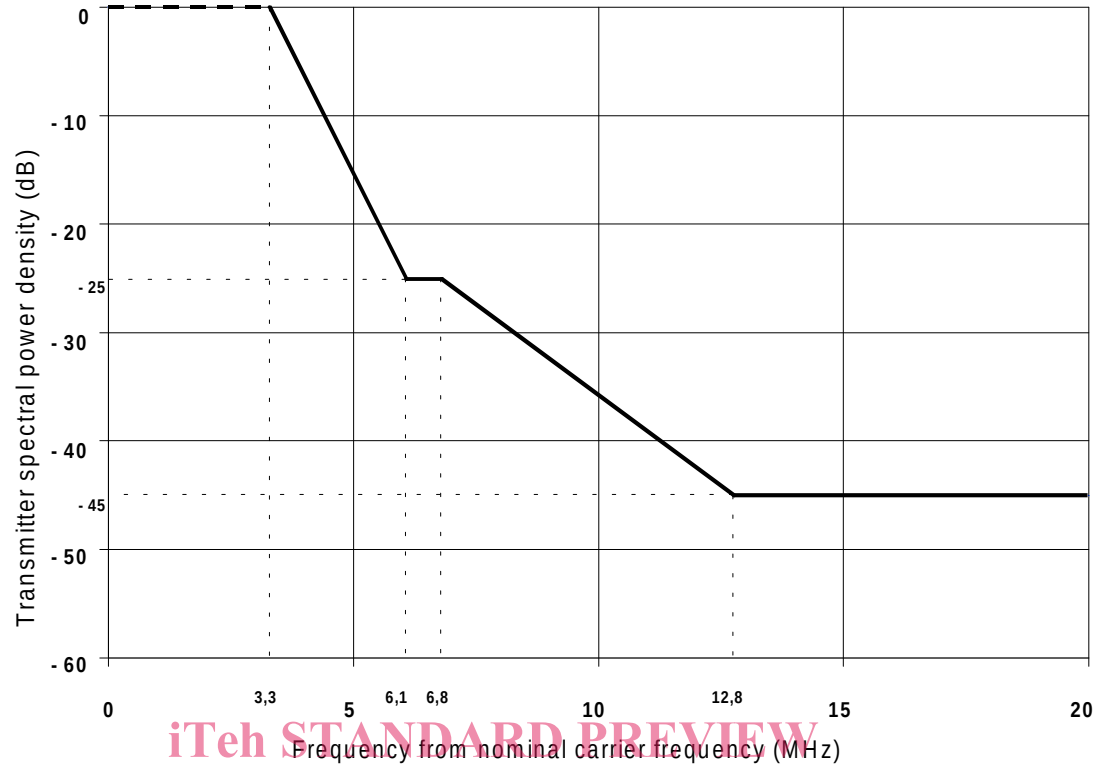
Replace table 6 by the following table:

Table 6: Spectrum analyser settings

Bit rate (Mbit/s)	2 x 2	2 / 8	8	34	34	140
Channel spacing (MHz)	3,5	7	14	28	56	140
IF Bandwidth (kHz)	30	30	30	100	100	300
Total sweep width (MHz)	20	20	50	100	200	500
Video bandwidth (kHz)	0,1	0,1	0,1	0,1	1	1
Recommended scan time (s)	20	20	50	20	20	20

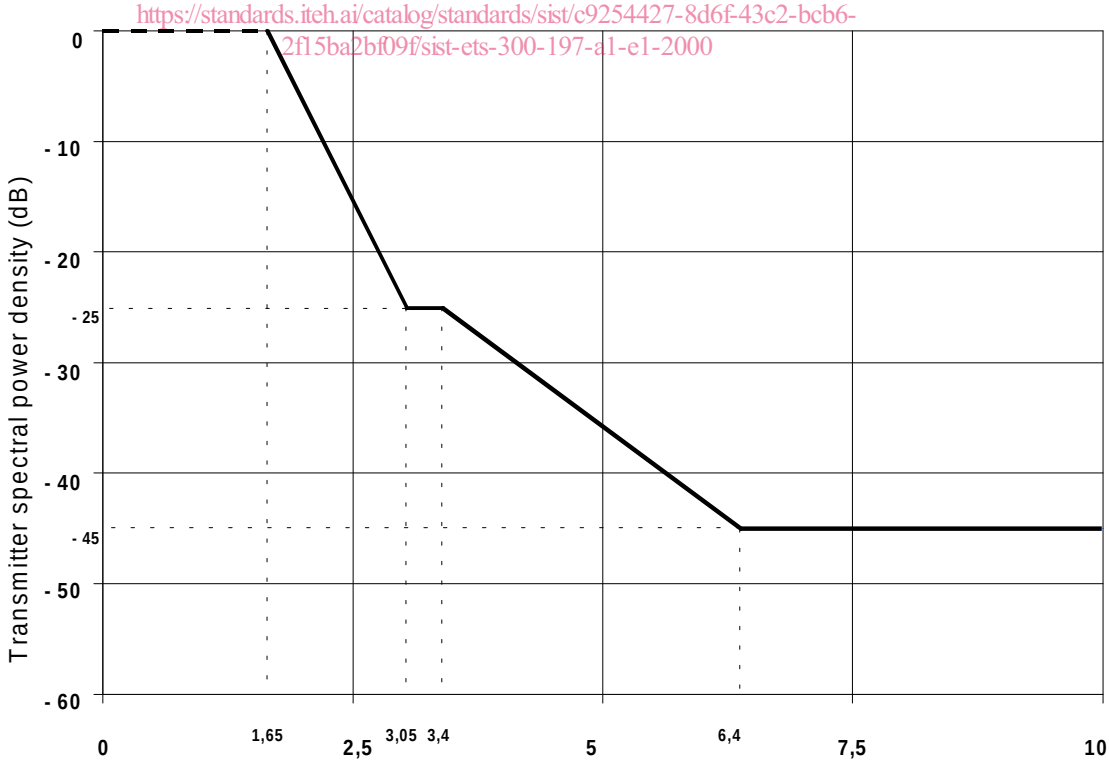
Page 14, figure 3

Replace figure 3 by the following figures 3a and 3b:



(Mask includes the allowance for both short and long term frequency tolerance)

Figure 3a: Limits of spectral power density for minimum system rate of 2 Mbit/s or 8 Mbit/s using a channel spacing of 7 MHz (referred to nominal centre frequency, f_0)



(Mask includes the allowance for both short and long term frequency tolerance)

Figure 3b: Limits of spectral power density for minimum system rate of 2 x 2 Mbit/s using a channel spacing of 3,5 MHz (referred to nominal centre frequency, f_0)

Page 20, table 7

Replace table 7 by the following table:

Table 7: Adjacent channel interference levels

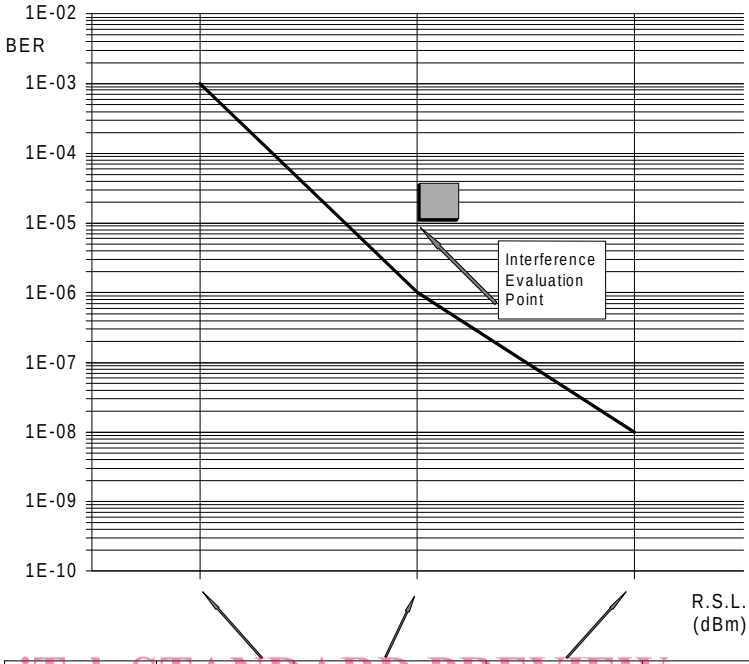
Bit rate (Mbit/s)	Separation of wanted and interfering signal (MHz)		Interference level (carrier/interference (dB))	
	co-polar	cross-polar	co-polar	cross polar
2x2	3,5	n/a	0	n/a
2	7	n/a	0	n/a
8	7	n/a	0	n/a
8	14	n/a	0	n/a
34	28	n/a	0	n/a
34	56	n/a	0	n/a
140/155	140	n/a	0	n/a

NOTE: Regulatory administrations may wish to vary the value of C/I for co-polar, adjacent channel interference. Values are typically in the range of 0 to - 3 dB.

n/a: not applicable.

Page 19, figure 8

Replace figure 8 by the following figure:



Bit rate (Mbit/s)	BER 1 E-3	BER 1 E-6	BER 1 E-8	Channel spacing (MHz)
2	- 81	- 78	- 74	7
2 x 2	- 82	- 77	- 73	3,5
8	- 75	- 72	- 68	14
8	- 80	- 75	- 71	7
34	- 72	- 69	- 65	28
34	- 72	- 69	- 65	56
140/155	- 66	- 63	- 59	140

Figure 8: BER versus RSL