

R&S® SFU-K353

DRM Waveforms

Specifications

DRM waveforms	I/Q sequences	in line with ETSI TS 201980 DRM
	release	V01.00
		see description of option for details
ARB memory (R&S® SFx-B3)	minimum required waveform memory	512 Mbyte (128 Msample)
	recommended waveform memory	1 Gbyte (256 Msample) ¹
ARB clock rate	bandwidth	depending on loaded waveform
	sampling rate	24 ksample/s, 48 ksample/s (depending on loaded waveform)
Transmission	transmission modes	A, B, C, D
	bandwidth	4.5/5.0/9.0/10/18/20 kHz
	constellation	
	SDC	4QAM, 16QAM
	MSC	16QAM, 64QAM
	code rate	depending on loaded waveform
	interleaver	short (0.4 s), long (2.0 s)
Signal set	sequence content	depending on loaded waveform
	content	digital audio, speech, data (PRBS)
	number of sequences	256
	length	depending on loaded test vector
	minimum length	1.1 Mbyte
	maximum length	329 Mbyte
	directory	artificial, test

¹ Memory module with 2 Gbyte and 512 Msample in preparation; preliminary data.

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Broadcasting
Test & Measurement

Data Sheet | 01.00

Artificial	purpose	source coding tests
	code rate	
	MSC part A	0.50, 0.60
	MSC part B	0.50, 0.60, 0.71, 0.78
	services	up to four services
	type	audio, audio (speech), audio and data, data
	audio	
	mean signal level	-12 dBFS
	identification	45054, 45055
	language	7, 15
	language code	none, ger
	country code	none, de
	codec	AAC, AAC with SBR
	mode	mono
	sampling rate	12 kHz, 24 kHz
	audio (speech)	
	mean signal level	-12 dBFS
	identification	255, 256, 4097, 4098, 45054, 45055
	language	5, 6, 7, 14, 15
	language code	eng, fre, ger, ina, cpe, spa
	country code	gb, fr, de, va, gs, es
	codec	CELP, HVCX, HVCX with SBR
	mode	mono, stereo, parametric stereo
	sampling rate	8 kHz, 12 kHz, 24 kHz
	audio and data	
	mean signal level	-12 dBFS
	identification	45054
	language	7
	language code	ger
	country code	de
	codec	AAC, AAC with SBR, CELP
	mode	mono, stereo, parametric stereo
	sampling rate	8 kHz, 12 kHz, 24 kHz
	data	
	mean signal level	-12 dBFS
	identification	15

Test	purpose	functional tests and performance measurements
	code rate	
	MSC part A	0.45, 0.48, 0.50, 0.55, 0.58, 0.60, 0.71
	MSC part B	0.45, 0.48, 0.50, 0.60, 0.62, 0.71, 0.78
	hierarchical mode	none, mixed, symmetrical
	code rate MSC part	0.50, 0.57, 0.60, 0.67
	services	one service and up to four services
	type	audio, audio (speech), audio and data, data, data (BERT)
	audio	
	mean signal level	-12 dBFS
	identification	45054
	content	seamless (error-free) 1 kHz sine (-6 dBFS)
	codec	AAC
	mode	mono, parametric stereo
	sampling rate	24 kHz
	audio (speech)	
	mean signal level	-12 dBFS
	identification	255
	content	seamless (error-free)
	language	5
	language code	eng
	country code	gb
	codec	CELP
	mode	parametric stereo
	sampling rate	8 kHz
	audio and data	
	mean signal level	-12 dBFS
	identification	45054
	content	seamless (error-free)
	language	7
	language code	ger
	country code	de
	codec	AAC, AAC with SBR
	mode	mono, parametric stereo
	sampling rate	24 kHz
	data	
	mean signal level	-10 dBFS
	identification	0, 1, 2, 3, 15, 45054, 1193046
	content	seamless (error-free)
	data (BERT)	
	mean signal level	-10 dBFS
identification	0, 1, 2, 3	
content	seamless (error-free) BER test pattern (BER 0.01, 0.1)	
Waveform support	R&S®SFU	full support of all DRM waveforms
	R&S®SFE	full support of all DRM waveforms
	R&S®SFE100	full support of all DRM waveforms

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