

R&S® SFU-K354

DTV Interferers

Specifications

DTV interferers	I/Q sequences	in line with country-specific standards, IEC 62002 MBRAI, NorDig, D-Book, A.74
	release	V01.20
		see description of option for details
ARB memory (R&S®SFx-B3)	minimum required waveform memory	1 Gbyte (256 Msample)
	recommended waveform memory	2 Gbyte (512 Msample) ¹
ARB clock rate	bandwidth	depending on loaded waveform
	symbol rate	depending on loaded waveform
Transmission	operating modes	DVB-T, ATSC/8VSB, T-DMB/DAB, MediaFLO™, ISDB-T, ISDB-T _{SB} , FM
Signal set	sequence content	depending on loaded stream
	content	null packets, analog audio, digital audio, digital video
	resolution	16 bit
	length	depending on loaded test vector
	minimum length	2.048 kbyte
	maximum length	512 Mbyte
	loading time for 64 Msample	20 s
DVB-T	digital TV signal	in line with EN 300 744, IEC 62002-1
	length	62.8 ms
	bandwidth	5/6/7/8 MHz
	constellation	64QAM
	FFT mode	2k
	guard interval	3/4
	code rate	1/2
	content	null packets
		decodable and seamless
	channel scenarios	one-channel scenario, two-channel scenario N ±1
	one-channel scenario	
	bandwidth	5 MHz, 6 MHz 7 MHz, 8 MHz (IEC 62002-1 pattern S2)
	two-channel scenario	N ±1
	bandwidth	5 MHz, 6 MHz 7 MHz, 8 MHz (IEC 62002-1 pattern L3)

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

ATSC/8VSB	digital TV signal	in line with A/53 Rev. C	
	length	one data frame	
	bandwidth	6 MHz	
	content	null packets decodable and seamless	
	channel scenarios	one-channel scenario	
	sequences	center frequency and pilot frequency	
	center frequency	centered to output spectrum	
	pilot frequency	centered to pilot frequency	
T-DMB/DAB	digital TV and audio broadcasting signal	in line with T-DMB/EN 300 401	
	length	one frame	
	transmission mode	mode I	
	bandwidth	8 MHz	
	content	decodable and seamless	
	audio	one audio service	
	video	null packets	
	sequences	T-DMB/DAB with channels A, B, C, D	
	channel scenarios	one-channel scenario, two-channel scenario, three-channel scenario, four-channel scenario	
	one-channel scenario		
	one channel	A, center frequency	
	multi-interferer scenario		
	two channels	A, D, with frequency gap B, C A, C, with frequency gap B, D, with 1.712 MHz frequency offset A, B, with frequency gap C, D, with 3.424 MHz frequency offset	
	three channels	A, B, C, with 1.712 MHz frequency offset A, C, D, with frequency gap B A, B, D, with frequency gap C	
	four channels	A, B, C, D	
	ISDB-T	digital TV signal	in line with ARIB STD-B31
		length	approx. 231 ms
operating mode		13 segments	
number of layers		one (A)	
layer A			
constellation		64QAM	
mode		3	
FFT mode		8k	
guard interval		1/8	
code rate		7/8	
time interleaver		2	
bandwidth		5.572 MHz	
content		not decodable and not seamless	
channel scenario		one-channel scenario	
one-channel scenario			
sequence		13 OFDM segments	

ISDB-T _{SB}	digital audio broadcasting signal	in line with ARIB STD-B29
	length	approx. 202 ms, 231 ms
	content	not decodable and not seamless
	channel scenario	one-channel scenario
	operating mode	1 segment, 3 segments
	1 segment	
	mode	3
	bandwidth	0.429563 MHz
	sequence	1 OFDM segment
	3 segments	
	mode	3
	bandwidth	1.286706 MHz
	sequence	3 OFDM segments
	DTMB	digital TV signal
length		1 s
bandwidth		8 MHz
content		not decodable and not seamless
channel scenario		one-channel scenario
operating mode		single carrier, multicarrier
single carrier		
constellation		4QAM, 16QAM, 32QAM, 64QAM
multicarrier		
constellation		16QAM
MediaFLO™		digital TV signal
	length	1 s
	bandwidth	6 MHz
	content	not decodable and not seamless
	channel scenario	one-channel scenario
FM	analog signal	in line with IEC 62002-2 GSM900 TX
	length	one frame
	content	decodable and seamless
	channel scenarios	one-channel scenario
	sequence	
	FM jammer	infinite and seamless
	frequency	1 kHz
Waveform support	frequency deviation	±50 kHz (in line with GSM900 TX)
	R&S®SFU	full support of all DTV interferers
	R&S®SFE	full support of all DTV interferers
	R&S®SFE100	full support of all DTV interferers

Rohde & Schwarz GmbH & Co.KG

Europe, Africa, Middle East or +49 89 4129 137 74

customersupport@rohde-schwarz.com

North America 1 888 TEST RSA (1 888 837 87 72)

customer.support@rsa.rohde-schwarz.com

Latin America +1 410 910 79 88

customersupport.la@rohde-schwarz.com

Asia/Pacific +65 65 13 04 88

customersupport.asia@rohde-schwarz.com

www.rohde-schwarz.com

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Subject to change

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