ITU-R BS.2217 (48 kHz, 16 bit, 1 to 6 channels)
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Please download the validation files from http://www.itu.int/pub/R-REP-BS.2217.
Here is a summary of the accompanying PDF file:

File	**Readout**	**K-20**	**Channels**
1770Comp-2_RelGateTest	*ignore*	*ignore*	*stereo*
1770Comp-2_AbsGateTest	*ignore*	*ignore*	*stereo*
1770Comp2_18LKFS_FrequencySweep	−18.0 LKFS	+2.0 LKFS	mono *)
1770Comp2_23LKFS_25Hz_2ch	−23.0 LKFS	−3.0 LKFS	stereo
1770Comp2_23LKFS_100Hz_2ch	−23.0 LKFS	−3.0 LKFS	stereo
1770Comp2_23LKFS_500Hz_2ch	−23.0 LKFS	−3.0 LKFS	stereo
1770Comp2_23LKFS_1000Hz_2ch	−23.0 LKFS	−3.0 LKFS	stereo
1770Comp2_23LKFS_2000Hz_2ch	−23.0 LKFS	−3.0 LKFS	stereo
1770Comp2_23LKFS_10000Hz_2ch	−23.0 LKFS	−3.0 LKFS	stereo
1770Comp2_24LKFS_25Hz_2ch	−24.0 LKFS	−4.0 LKFS	stereo
1770Comp2_24LKFS_100Hz_2ch	−24.0 LKFS	−4.0 LKFS	stereo
1770Comp2_24LKFS_500Hz_2ch	−24.0 LKFS	−4.0 LKFS	stereo
1770Comp2_24LKFS_1000Hz_2ch	−24.0 LKFS	−4.0 LKFS	stereo
1770Comp2_24LKFS_2000Hz_2ch	−24.0 LKFS	−4.0 LKFS	stereo
1770Comp2_24LKFS_10000Hz_2ch	−24.0 LKFS	−4.0 LKFS	stereo
1770Comp2_23LKFS_SummingTest	−23.0 LKFS	−3.0 LKFS	5.1
1770Comp2_23LKFS_ChannelCheckLeft	−23.0 LKFS	−3.0 LKFS	5.1
1770Comp2_23LKFS_ChannelCheckRight	−23.0 LKFS	−3.0 LKFS	5.1
1770Comp2_23LFKS_ChannelCheckCentre	−23.0 LKFS	−3.0 LKFS	5.1
1770Comp2_23LKFS_ChannelCheckLFE	−inf LKFS	−inf LKFS	5.1
1770Comp2_23LKFS_ChannelCheckLs	−23.0 LKFS	−3.0 LKFS	5.1
1770Comp2_23LKFS_ChannelCheckRs	−23.0 LKFS	−3.0 LKFS	5.1
1770Comp2_24LKFS_SummingTest	−24.0 LKFS	−4.0 LKFS	5.1
1770Comp2_24LKFS_ChannelCheckLeft	−24.0 LKFS	−4.0 LKFS	5.1
1770Comp2_24LKFS_ChannelCheckRight	−24.0 LKFS	−4.0 LKFS	5.1
1770Comp2_24LKFS_ChannelCheckCentre	−24.0 LKFS	−4.0 LKFS	5.1
1770Comp2_24LKFS_ChannelCheckLFE	−inf LKFS	−inf LKFS	5.1
1770Comp2_24LKFS_ChannelCheckLs	−24.0 LKFS	−4.0 LKFS	5.1
1770Comp2_24LKFS_ChannelCheckRs	−24.0 LKFS	−4.0 LKFS	5.1

**) During validation, K-Meter will convert mono files to stereo, so you'll have to subtract 3.01 dB from K-Meter's readout in order to match the given levels.*

Validation settings
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File: meter_ballistics.flac
Host SR: 48 000 Hz
Channel: All
Display: [x] Average meter level
[ ] Peak meter level
[ ] Maximum peak level
[ ] Stereo meter value
[ ] Phase correlation