FLAC-compressed wave file (44.1 kHz, 16 bit, stereo)
==
Please verify correctness of meter ballistics programmatically. Calculated
values are only valid in "RMS" mode. Small differences due to time granularity
of validation logging are acceptable.

```
00:00.000 - 00:02.000  silence
00:02.000 - 00:12.000  sine wave (2 kHz, 0.0 dB FS peak)
00:12.000 - 00:12.600  silence

00:12.600              [check fall time of average meters]

00:12.600 - 00:14.600  sine wave (2 kHz, 0.0 dB FS peak)
00:14.600 - 00:24.600  silence
00:24.600 - 00:25.200  sine wave (2 kHz, 0.0 dB FS peak)

00:25.200              [check rise time of average meters]

00:25.200 - 00:27.200  silence
00:27.200 - 00:37.200  sine wave (2 kHz, 0.0 dB FS peak)
00:37.200 - 00:40.200  silence

00:40.200              [check fall/rise time of peak meters]

00:40.200 - 00:42.200  sine wave (2 kHz, 0.0 dB FS peak)
00:42.200 - 00:44.200  silence
```

Validation settings
===================
```
File:     meter_ballistics.flac
```
Host SR: 44 100 Hz
```
Channel:  RMS: All, ITU-R: 1
Display:  [x] Average meter level
          [x] Peak meter level
          [ ] Maximum peak level
          [ ] Stereo meter value
          [ ] Phase correlation
```


Metering minima
===============
-90.01 dB (see "MeterBallistics::fMeterMinimumDecibel")

Fall time of average meters (sine wave, 0.0 dB FS peak)
==
99% of final reading in 600 ms integration time

K-20 = 20.00 dB - 90.01 dB * 99% = -69.11 dB   (ITU-R: -66.8 dB)
```
K-14 = 14.00 dB - 90.01 dB * 99% = -75.11 dB   (ITU-R: -72.8 dB)
K-12 = 12.00 dB - 90.01 dB * 99% = -77.11 dB   (ITU-R: -74.8 dB)
Norm =  0.00 dB - 90.01 dB * 99% = -89.11 dB   (ITU-R: -86.8 dB)
```


Rise time of average meters (sine wave, 0.0 dB FS peak)
==
99% of final reading in 600 ms integration time

K-20 = 20.00 dB - 90.01 dB * 1% = 19.10 dB   (ITU-R: 21.4 dB)
```
K-14 = 14.00 dB - 90.01 dB *  1% =  13.10 dB   (ITU-R:  15.4 dB)
K-12 = 12.00 dB - 90.01 dB *  1% =  11.10 dB   (ITU-R:  13.4 dB)
Norm =  0.00 dB - 90.01 dB *  1% =  -0.90 dB   (ITU-R:   1.4 dB)
```


Fall time of peak meters (sine wave, 0.0 dB FS peak)
===
-26 dB in 3 seconds

K-20 = 20.00 dB - 26.00 dB = -6.00 dB
```
K-14 = 14.00 dB - 26.00 dB = -12.00 dB
K-12 = 12.00 dB - 26.00 dB = -14.00 dB
Norm =  0.00 dB - 26.00 dB = -26.00 dB
```


Rise time of peak meters (sine wave, 0.0 dB FS peak)
===
immediate (one sample)

K-20 = 20.00 dB
```
K-14 = 14.00 dB
K-12 = 12.00 dB
Norm =  0.00 dB
```