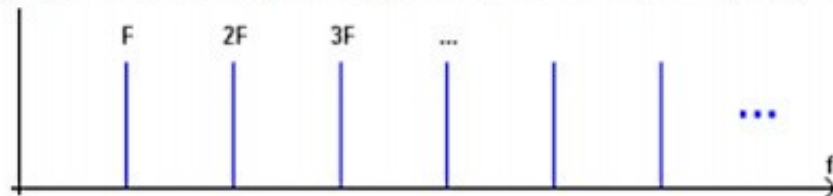
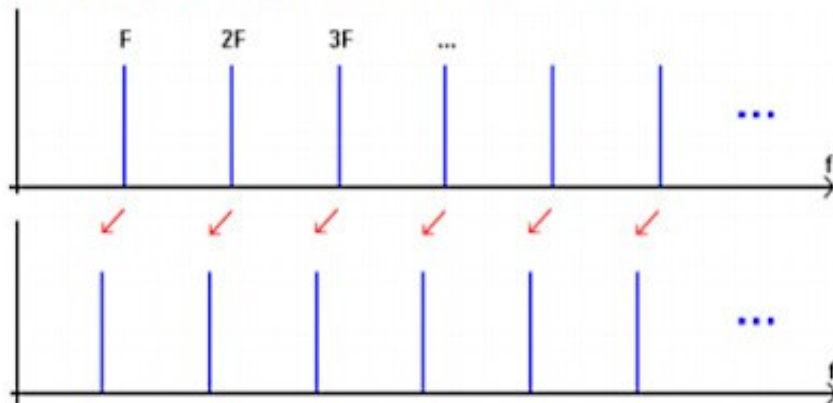


3.12.3 Intermodulation Distortion according to Belcher

One more multi tone method was developed by R.A. Belcher. It uses a pseudo-random binary sequence as a test signal. This gives components at equal frequency intervals.



As the intermodulation components produced by this signal would occur at the same frequencies as components of the test signal, the whole signal is first shifted by a constant frequency before application to the Device Under Test:



A test signal with components at 150 Hz intervals shifted by -33 Hz was usually used for good agreement between measuring results and subjective assessments.

After passage through the Device Under test, the whole signal is shifted back:



The test signal components are then eliminated by a comb filter to leave only distortion components.