m - integer, 1 < m < 80 q(m) = L0.lm] $I(m) = m - ([0\cdot |m] \times |0)$ both q(m) and r(m) are integer. BL(m) = 25+1.79(m)+6.1 r(m) BL(m) that I took = 55.8. Let us see if we can find an m such that BL(m) = 55.8 25+ 1.79(m)+6.1 r(m) = 55.8 1-79 (m) +6.1 r(m) = 30.8 =) [179(m) + 618(m) = 308]As 15m580 => 0.150.1m58 -> Lo.1m] & {0,1,2,-,8} clearly r(m) = m - (10 Loilm) \le m. Note that . Locamy gives the digit in the los place of the two digit integer m. Hence r(m) will give the digit in the units place of m i.e. r(m) $\in \{0,1,2,--,9\}$.

Now,
$$\left[\frac{308}{17}\right] = 18$$
 and $\left[\frac{308}{61}\right] = 5$
 $\Rightarrow \gamma(m) \in \left\{0.1,2,3,4,5\right\}$.

if $r(m) = 5$
 $\Rightarrow (79(m) = 308 - 61x5)$
 $= 308 - 305$
 $= 3$
here $q(m)$ cannot be an integel if $r(m) = 5$.

similarly if $r(m) = 4$
 $179(m) = 308 - 61x9$
 $= 64$
here too $q(m)$ cannot be an integel.

if $r(m) = 3$
 $179(m) = 308 - 61x3 = 125$
here too $q(m)$ cannot be an integel.

if $r(m) = 308 - 61x3 = 125$
here too $q(m)$ cannot be an integel.

if $r(m) = 308 - 61x3 = 125$
here too $q(m) = 308 - 61x3 = 125$
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here too

is 330kHz. Halfof this sampling frequency is 165kHz. As both BL & BH are less than

165 kHz, there will not be any aliazing.