Frequency Emission Registration

Necessary Bandwidth

Bandwidth calculation method:

$$BW = R * (1/CR) * (1/Y)$$

where
 BW = the necessary bandwidth, Hz
  R = the baseband data rate, bits per second (bps)
   = 150 kbps (kilo bits per second)
 CR = the forward-error-correction (FEC) code rate
   = 1/2
  Y = the number of transmission bit per symbol
   = 2 for QPSK

 BW = 150k * (1/(1/2)) * (1/2)
   = 150k * (2) * (1/2)
   = 150k Hz