The Maximum Occupied bandwidth is a calculated value using Carson's rule; BW = 2 x max. dev. + 2 x highest modulated freq.

in our case; max deviation = 5.2 kHzmax modulation freq. = 4800 HzBW = $(2 \times 5.2 \text{ kHz}) + (2 \times 4800 \text{ Hz})$ BW = 10.4 kHz + 9600 HzBW = 20 kHz