



Appendix D

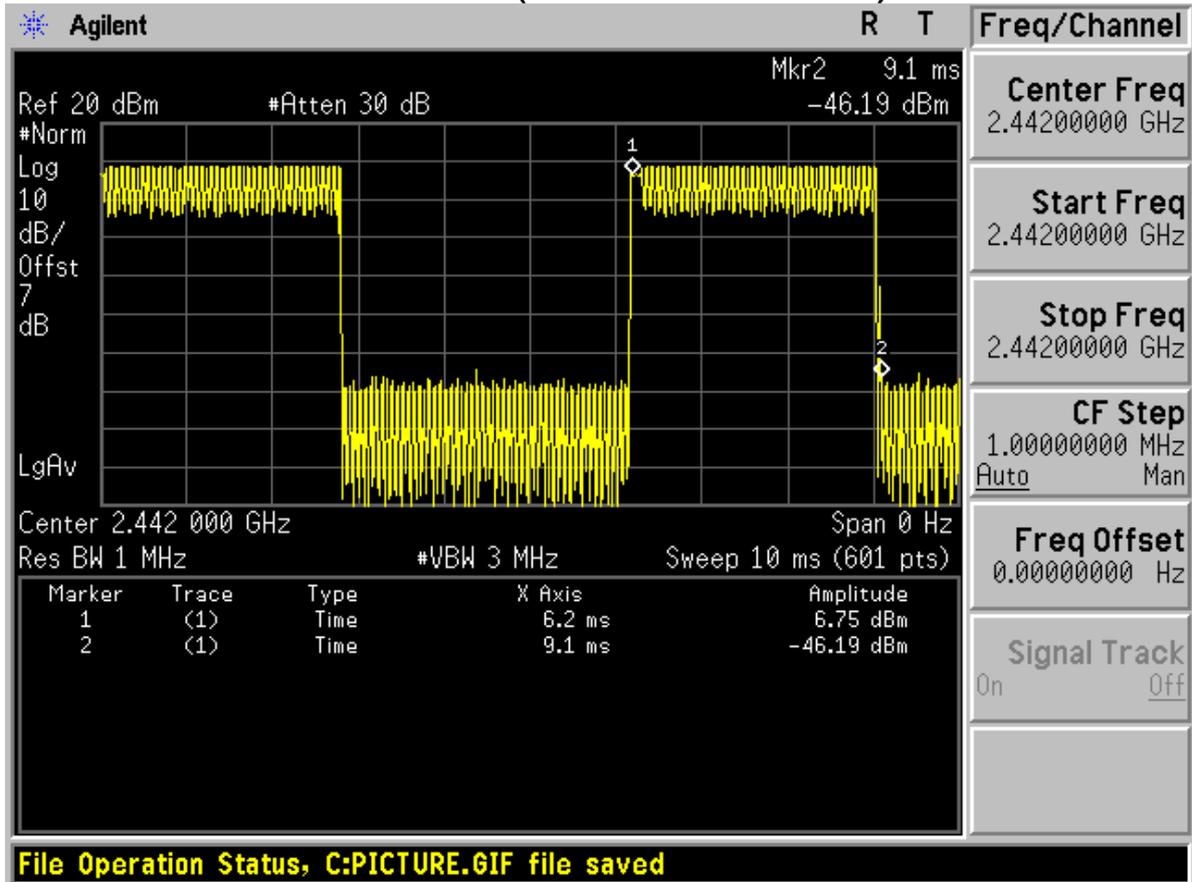
Time of occupancy

According to FCC Part 15.247 (a) (1) iii



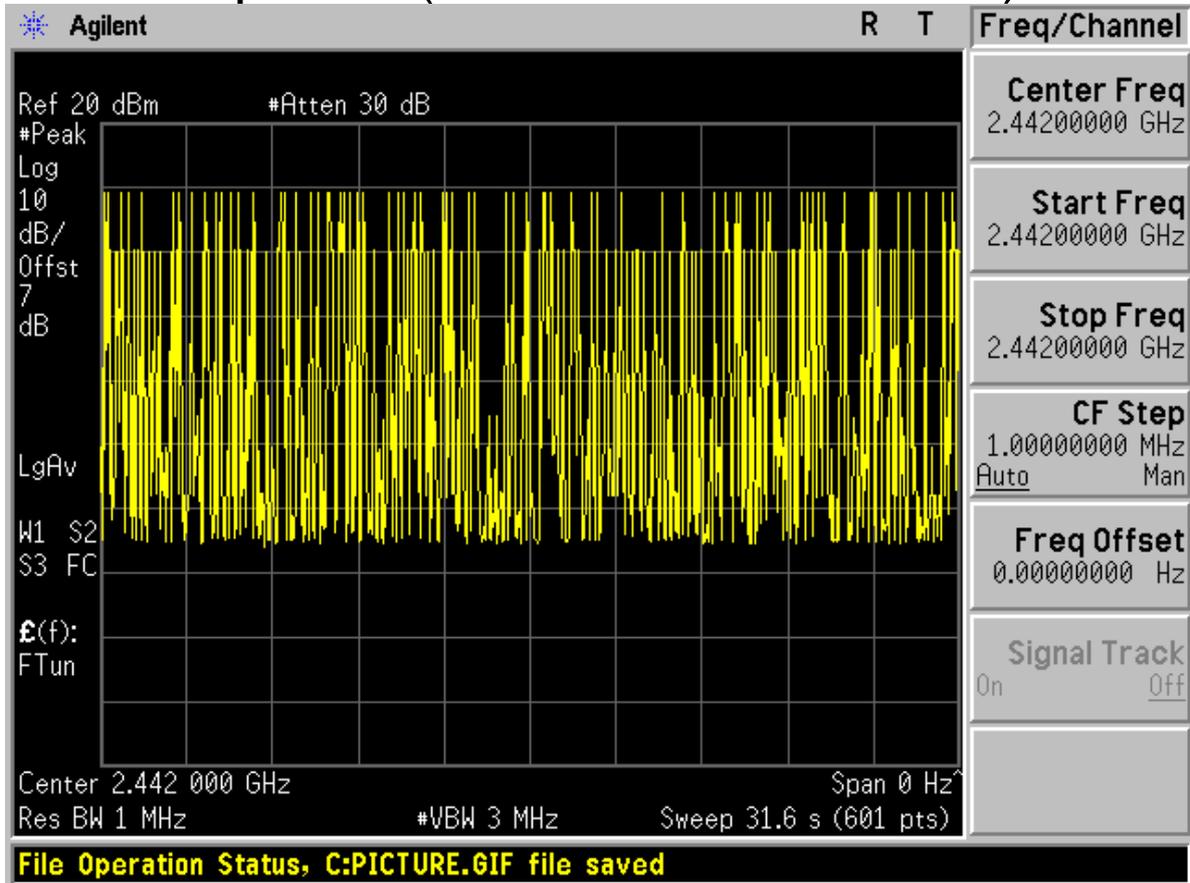
Modulation: $\pi/4$ -DQPSK

A burst (One time slot)





A period (Less than 106.7 burst)



Note:

Typically, Bluetooth 2.0/EDR mode has a channel hopping rate of 1600 hops/s. Since 1x/EDR modes use 5 transmit and 1 receive slot, for a total of 6 slots, the Bluetooth transmitter is actually hopping at a rate of $1600 / 6 = 266.67$ hops/s/slot.

o $400\text{ms} \times 79$ hopping channels = 31.6 sec (Time of Occupancy Limit)

o Worst case BT has 266.67 hops/second (for 1x/EDR modes with DH5 operation)

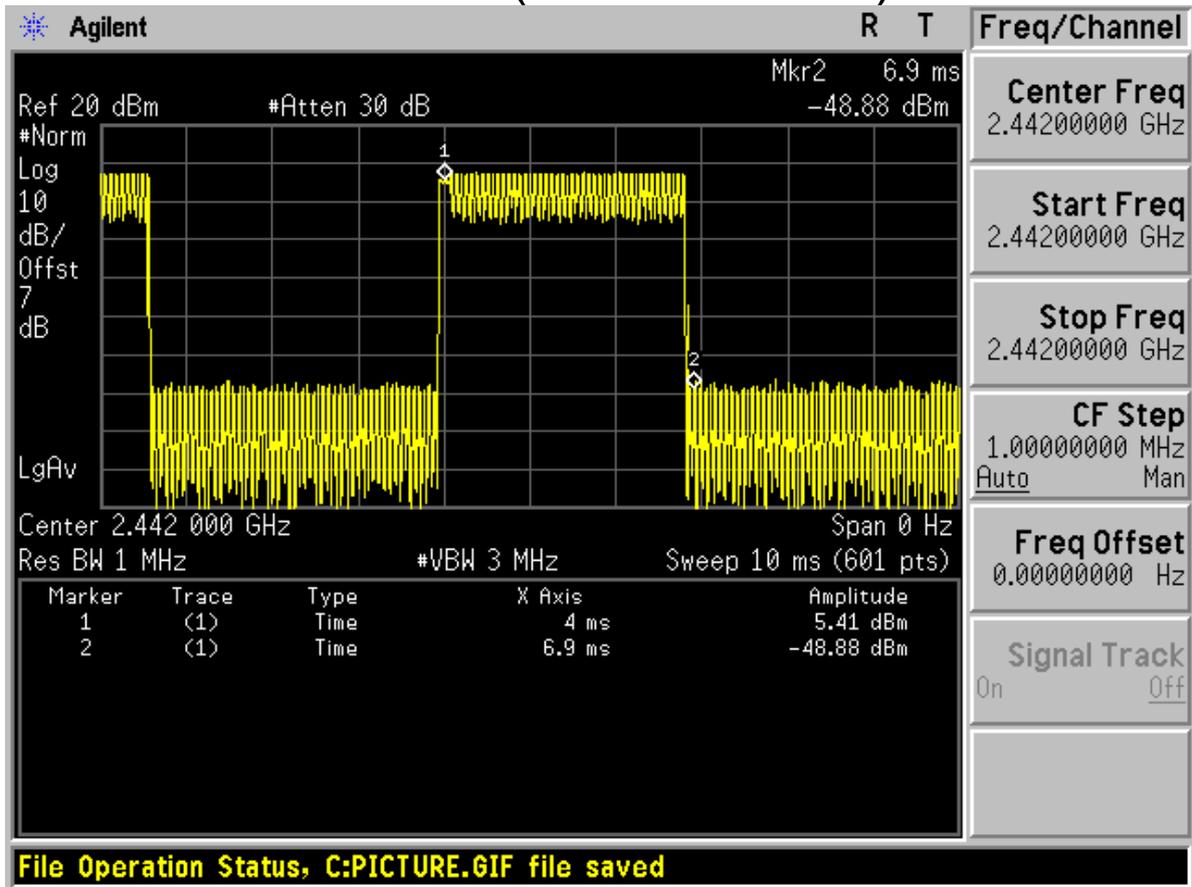
o 266.67 hops/second / 79 channels = 3.38 hops/second (# of hops/second on one channel)

o 3.38 hops/second/channel x 31.6 seconds = 106.7 hops (# hops over a 31.6 second period)



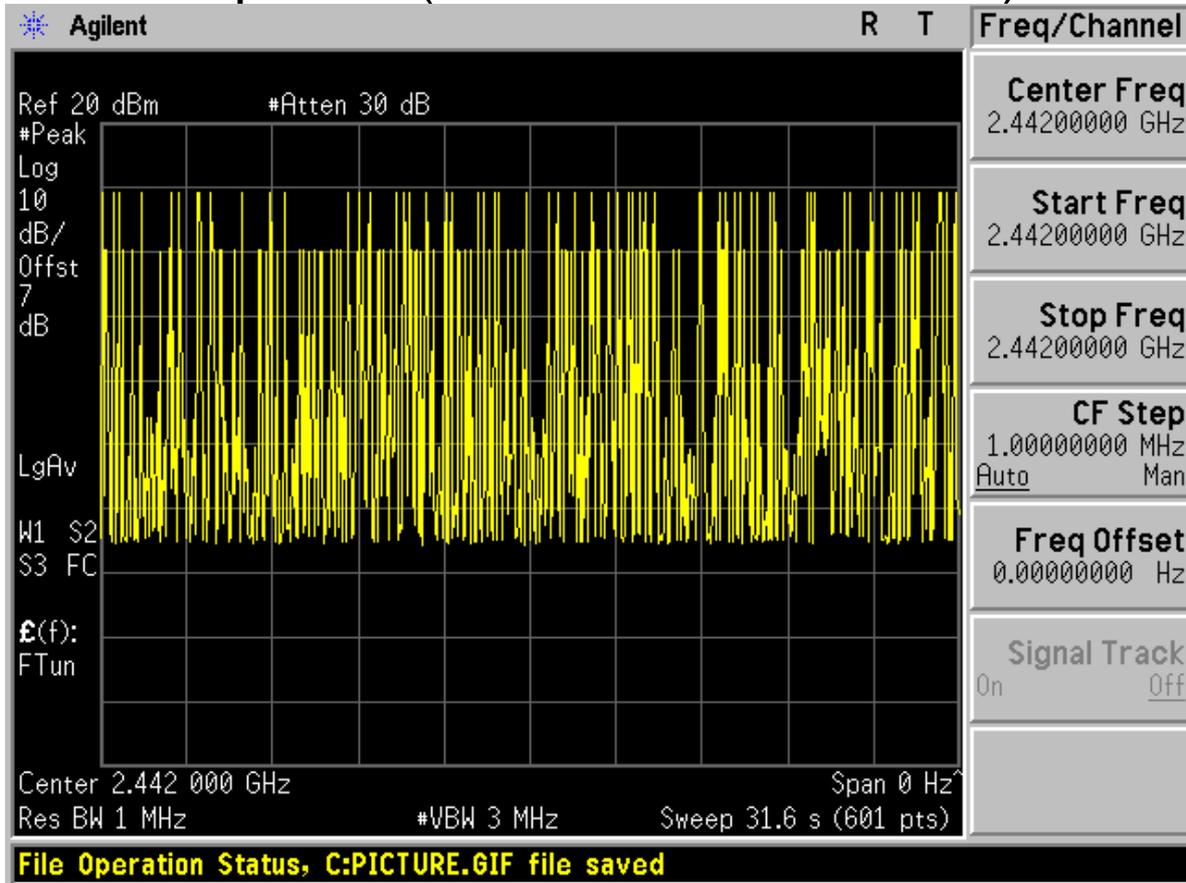
Modulation: 8DPSK

A burst (One time slot)





A period (Less than 106.7 burst)



Note:

Typically, Bluetooth 2.0/EDR mode has a channel hopping rate of 1600 hops/s. Since 1x/EDR modes use 5 transmit and 1 receive slot, for a total of 6 slots, the Bluetooth transmitter is actually hopping at a rate of $1600 / 6 = 266.67$ hops/s/slot.

o $400\text{ms} \times 79$ hopping channels = 31.6 sec (Time of Occupancy Limit)

o Worst case BT has 266.67 hops/second (for 1x/EDR modes with DH5 operation)

o 266.67 hops/second / 79 channels = 3.38 hops/second (# of hops/second on one channel)

o 3.38 hops/second/channel x 31.6 seconds = 106.7 hops (# hops over a 31.6 second period)



-----The End -----