FCC Part 15.247(a)(1)(iii) Average Frequency Dwell Time Results

Operating Mode	Bluetooth	Temperature	24°C
Test Input Power	110V 60Hz	Relative Humidity	57%
Attached Plots	1 – 3 (DH3 Packet) 4 – 5 (DH5 Packet)	Atmospheric Pressure	1029mbar
Hopping Rate	1600 hops / s	Tested By	Lim Cher Hwee
Number of Hopping Channels	79 channels		

DH3 Packets

Channel	Channel Frequency (GHz)	Average Frequency Dwell Time (s)	Average Occupancy Limit (s)
0	2.402	0.0667	0.4
39	2.441	0.0667	0.4
78	2.480	0.0649	0.4

DH5 Packets

Channel	Channel Frequency (GHz)	Average Frequency Dwell Time (s)	Average Occupancy Limit (s)
0	2.402	0.0411	0.4
39	2.441	0.0428	0.4
78	2.480	0.0387	0.4

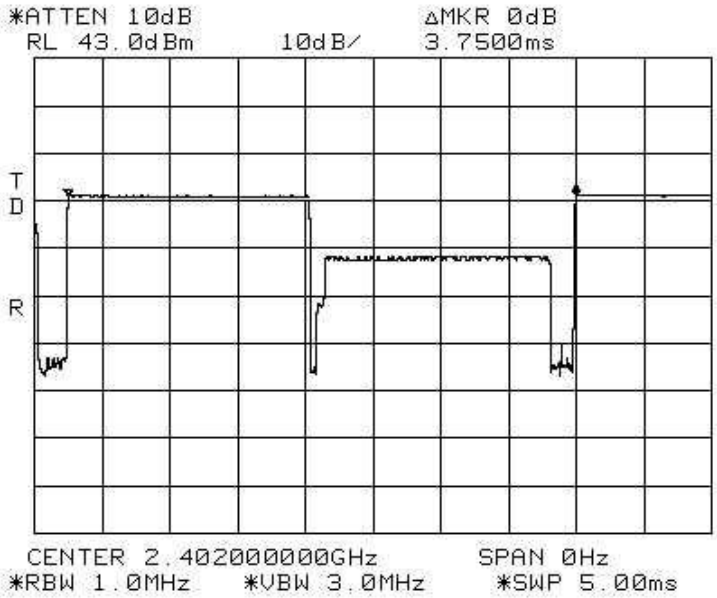
Notes

1. DH3 Packet
   a. For DH3 packet, the EUT operates based on 3-slot transmission and 3-slot reception basis. As such, there are [1600 / (3 + 3)] transmissions per second and the time occupancy per channel is [measured time slot length / 6].

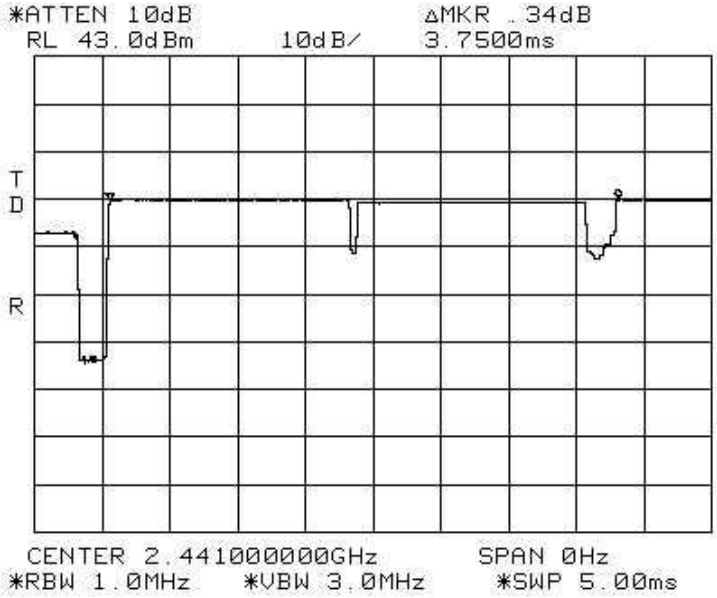
   b. DH3 Packet Average Frequency Dwell Time = [measured time slot length / 6 x hopping rate / 6 / number of hopping channels] x [0.4 x number of hopping channels]
2. DH5 Packet
   a. For DH5 packet, the EUT operates based on 5-slot transmission and 5-slot reception basis. As such, there are [1600 / (5 + 5)] transmissions per second and the time occupancy per channel is [measured time slot length / 5].

   b. DH5 Packet Average Frequency Dwell Time = [measured time slot length / 10 x hopping rate / 10 / number of hopping channels] x [0.4 x number of hopping channels]

Average Frequency Dwell Time Plots (DH3 Packet)

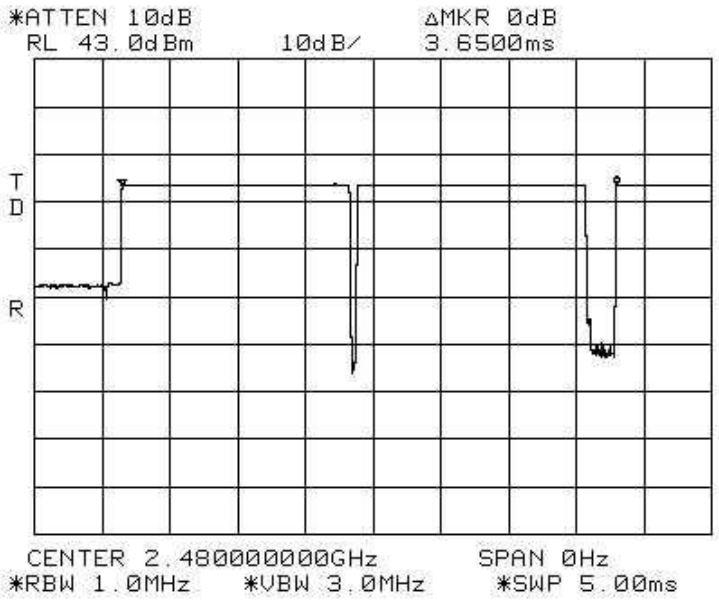


Plot 1 – Channel 0



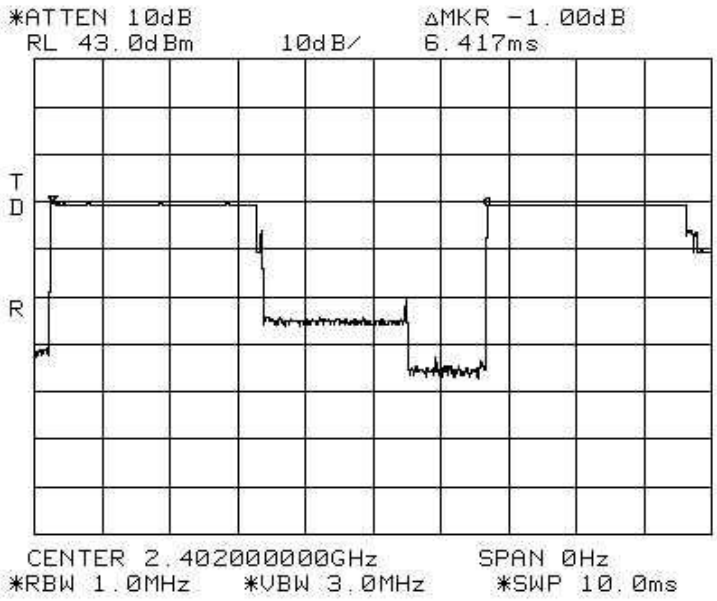
Plot 2 – Channel 39

Average Frequency Dwell Time Plots (DH3 Packet)

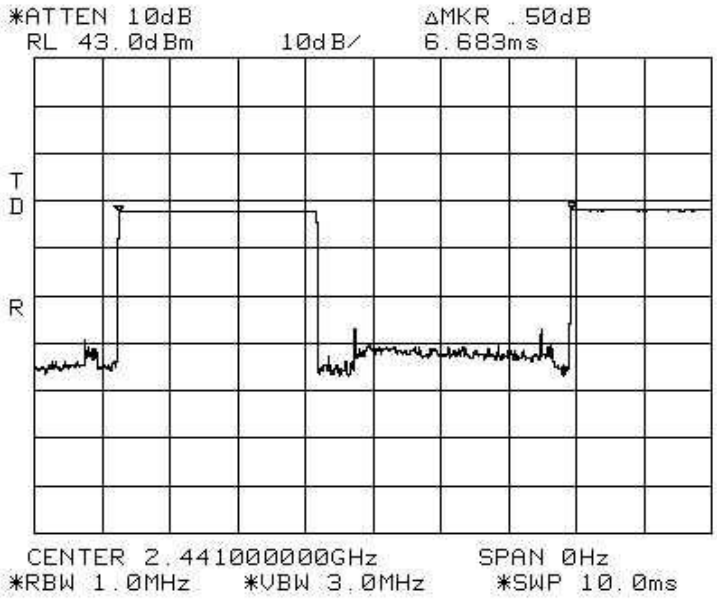


Plot 3 – Channel 78

Average Frequency Dwell Time Plots (DH5 Packet)

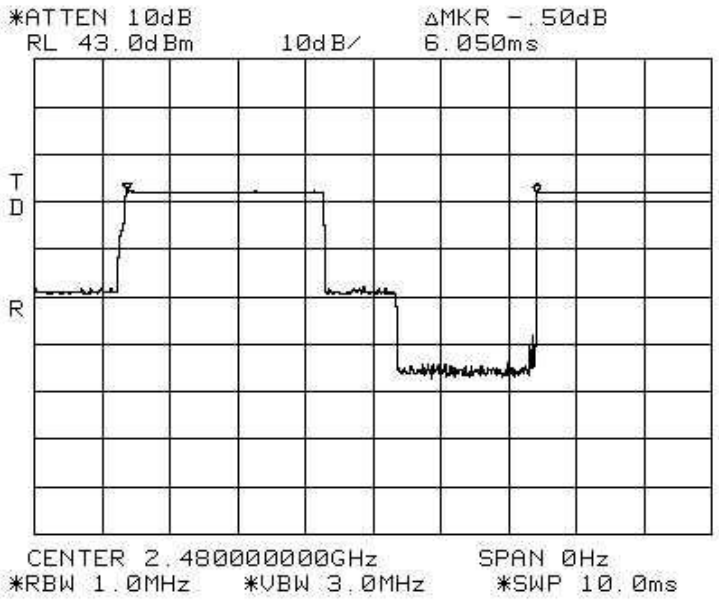


Plot 4 – Channel 0



Plot 5 – Channel 39

Average Frequency Dwell Time Plots (DH5 Packet)



Plot 6 – Channel 78