

Fig. 110 Time of Occupancy(Dwell Time) ( $\pi_4$  DQPSK, Ch39)

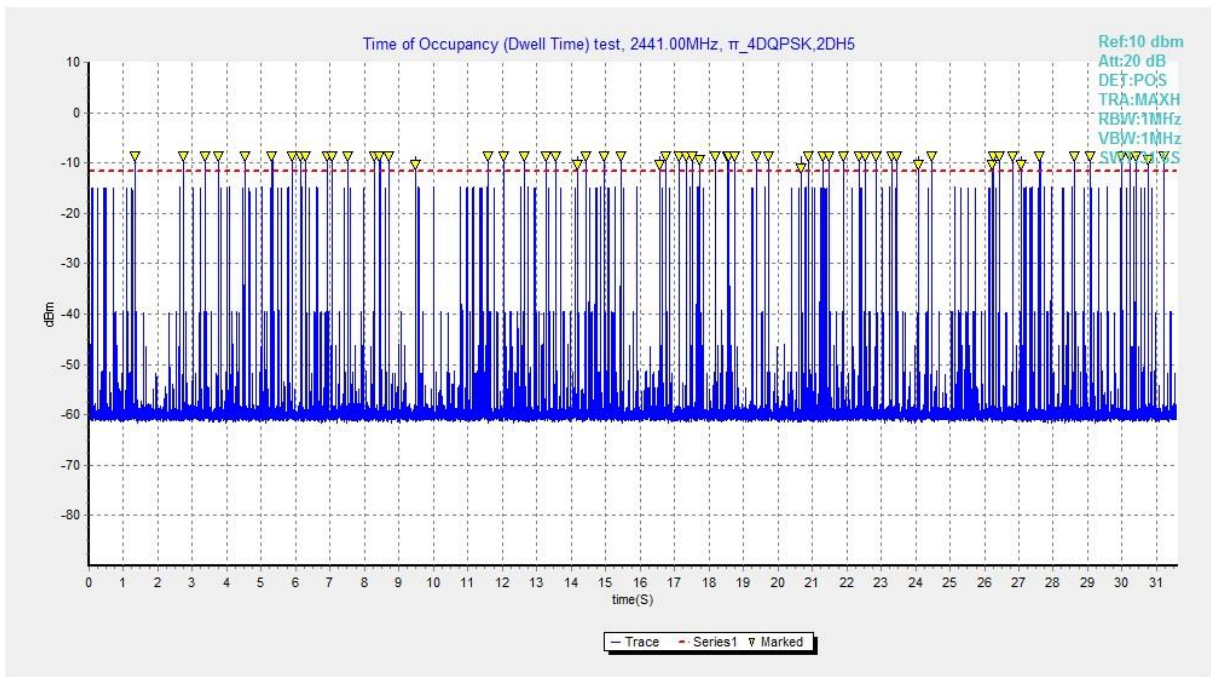


Fig. 111 Time of Occupancy(Dwell Time) ( $\pi_4$  DQPSK, Ch39)

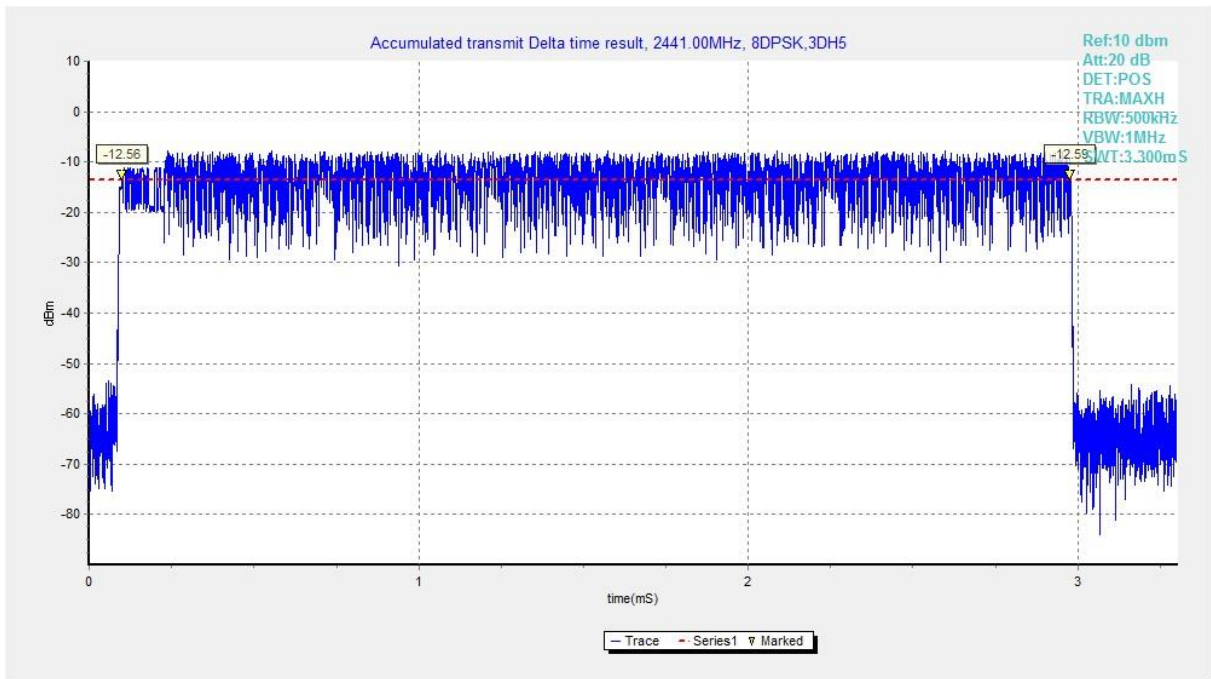


Fig. 112 Time of Occupancy(Dwell Time) (8DPSK, Ch39)

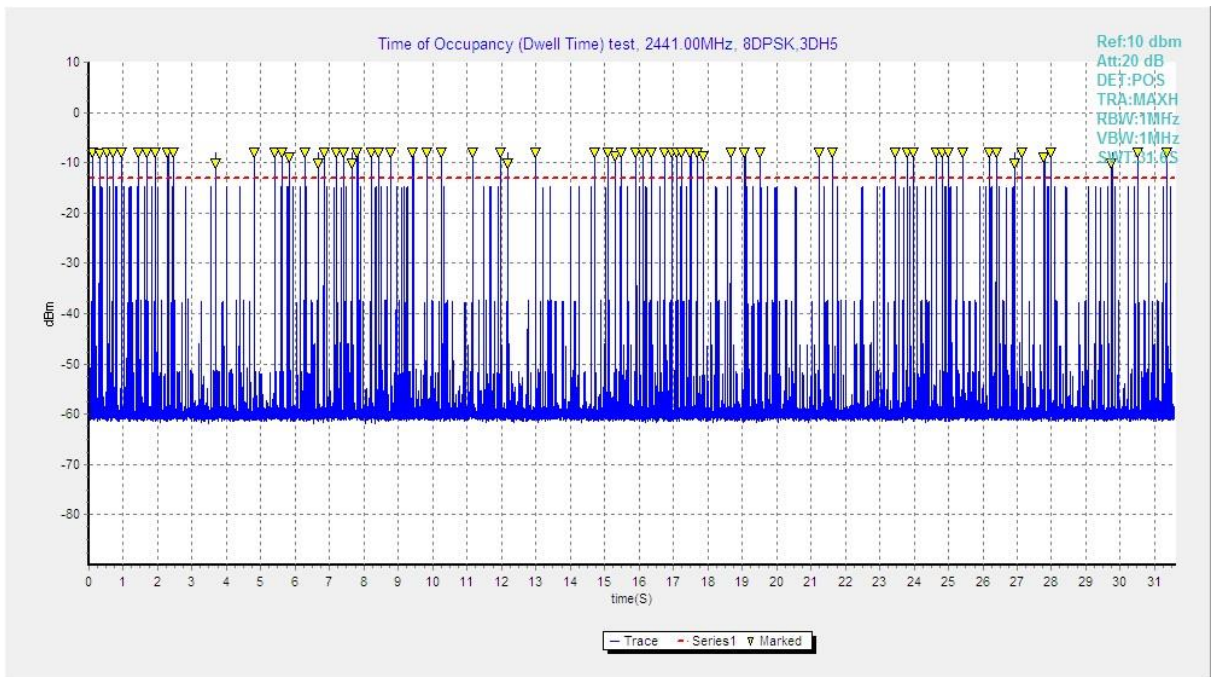


Fig. 113 Time of Occupancy(Dwell Time) (8DPSK, Ch39)

## A.7 Number of Hopping Channels

### Measurement Limit:

| Standard                  | Limit                                |
|---------------------------|--------------------------------------|
| FCC 47 CFR Part 15.247(a) | At least 15 non-overlapping channels |

### Measurement Results:

| Mode          | Packet | Number of hopping |         | Test result | Conclusion |
|---------------|--------|-------------------|---------|-------------|------------|
| GFSK          | DH5    | Fig.114           | Fig.115 | 79          | <b>P</b>   |
| $\pi/4$ DQPSK | 2-DH5  | Fig.116           | Fig.117 | 79          | <b>P</b>   |
| 8DPSK         | 3-DH5  | Fig.118           | Fig.119 | 79          | <b>P</b>   |

See below for test graphs.

**Conclusion: Pass**

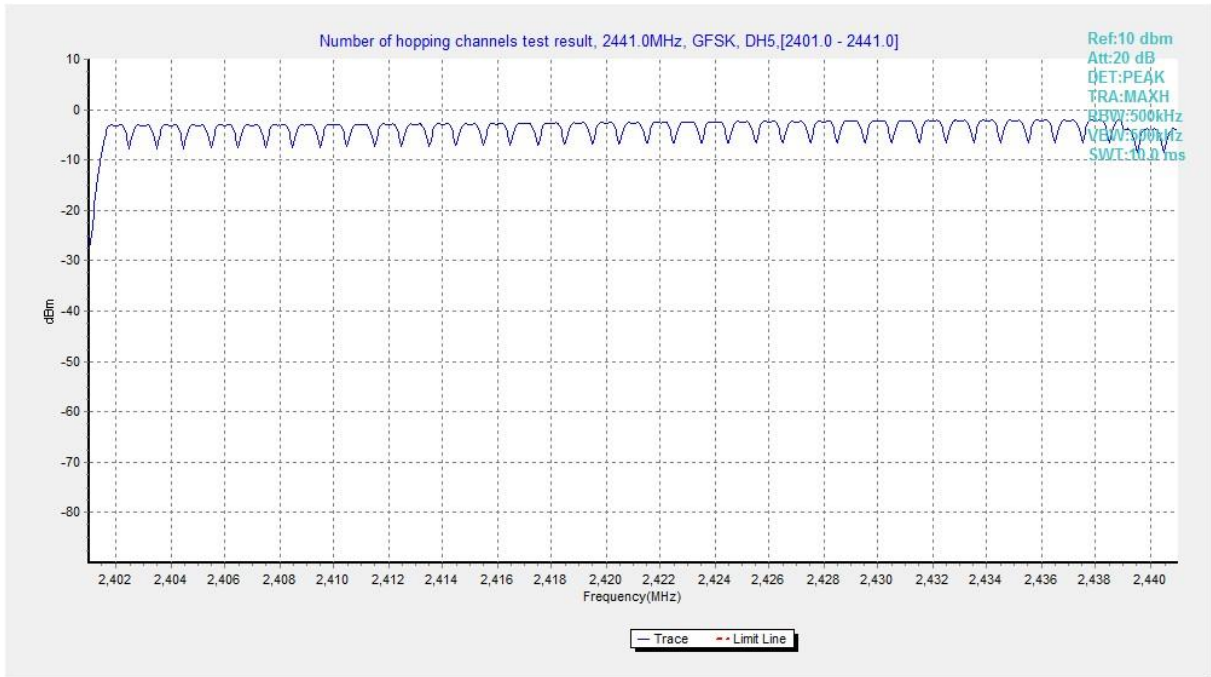


Fig. 114 Hopping channel ch0~39 (GFSK, Ch39)

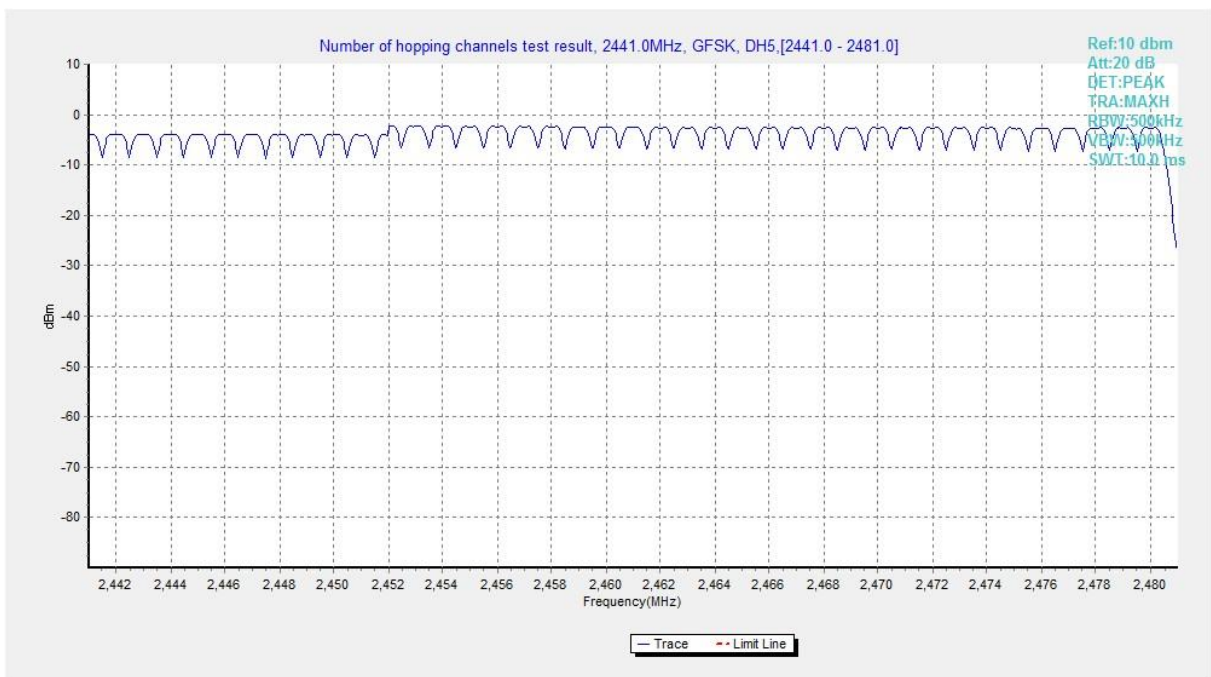


Fig. 115 Hopping channel ch39~78 (GFSK, Ch39)



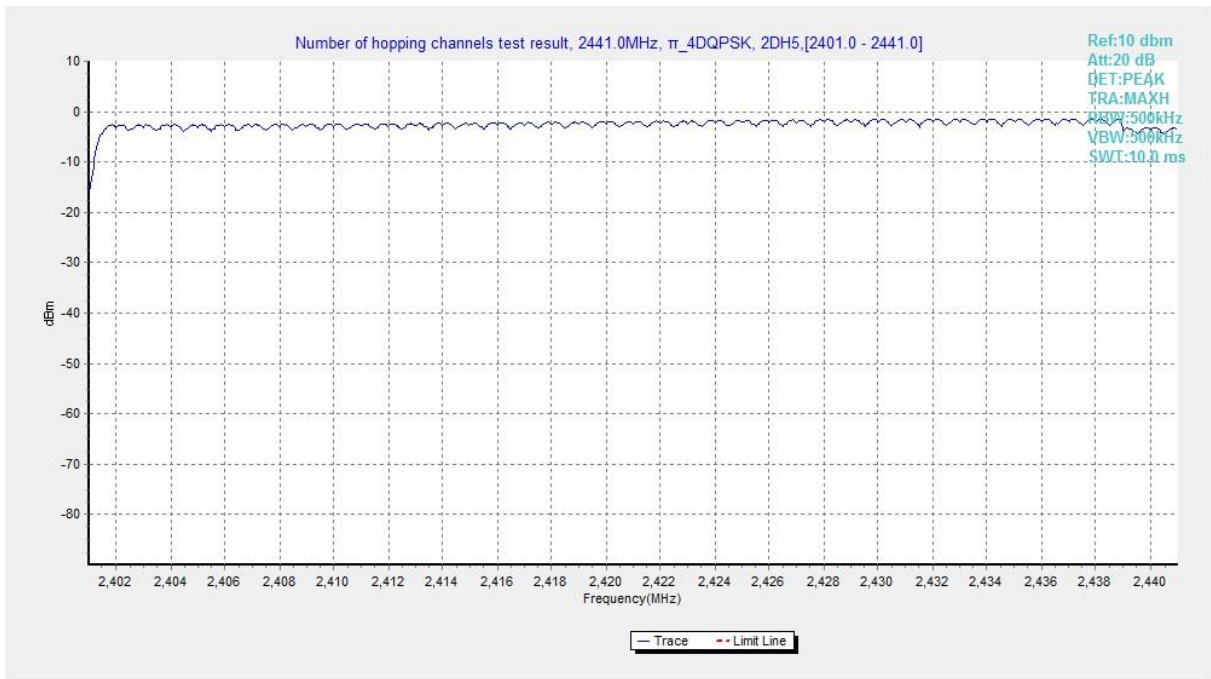


Fig. 116 Hopping channel ch0~39 ( $\pi/4$  DQPSK, Ch39)

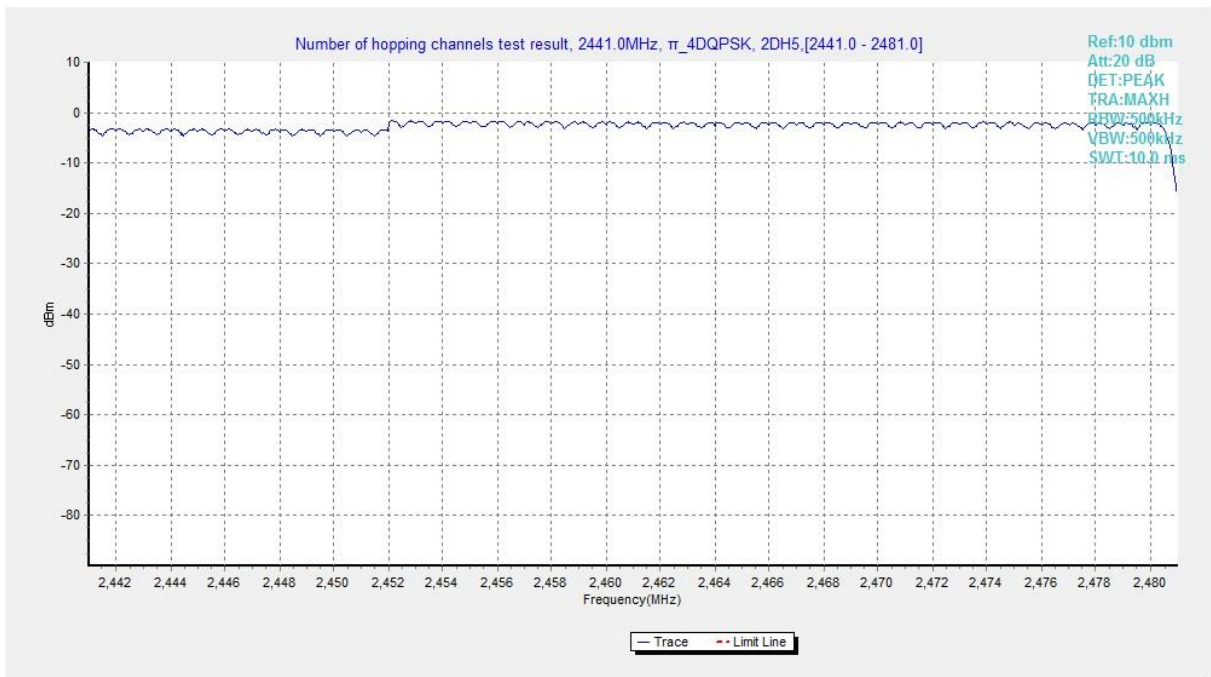


Fig. 117 Hopping channel ch39~78 ( $\pi/4$  DQPSK, Ch39)

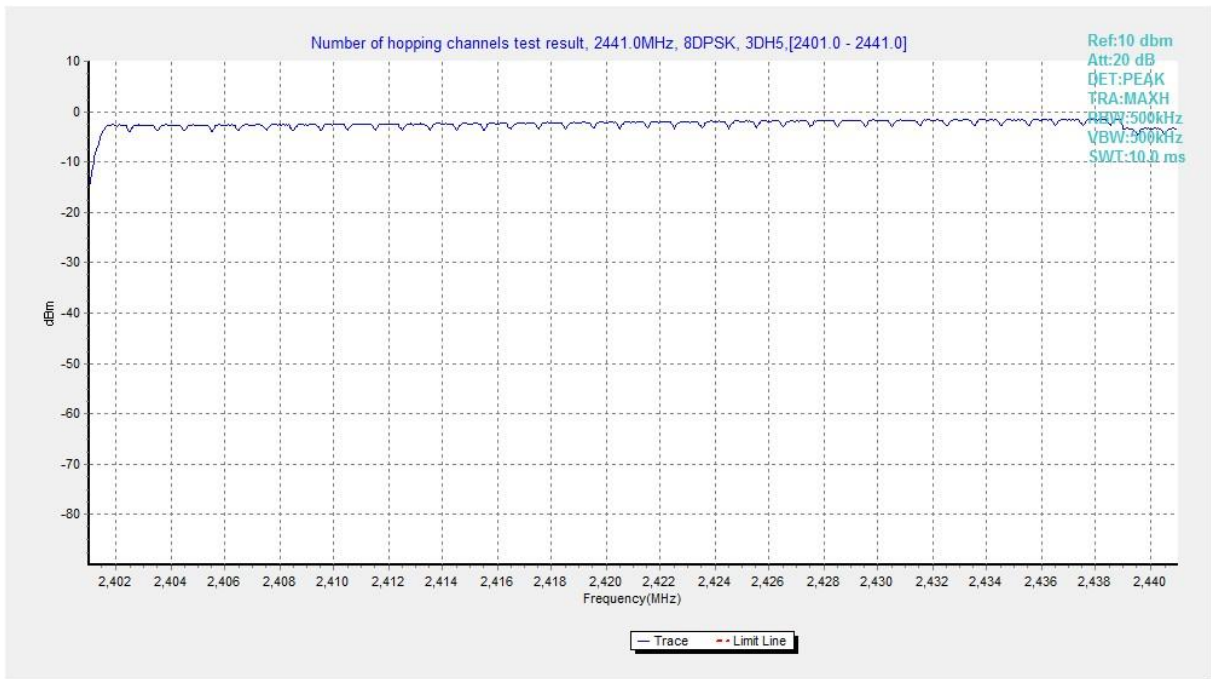


Fig. 118 Hopping channel ch0~39 (8DPSK, Ch39)

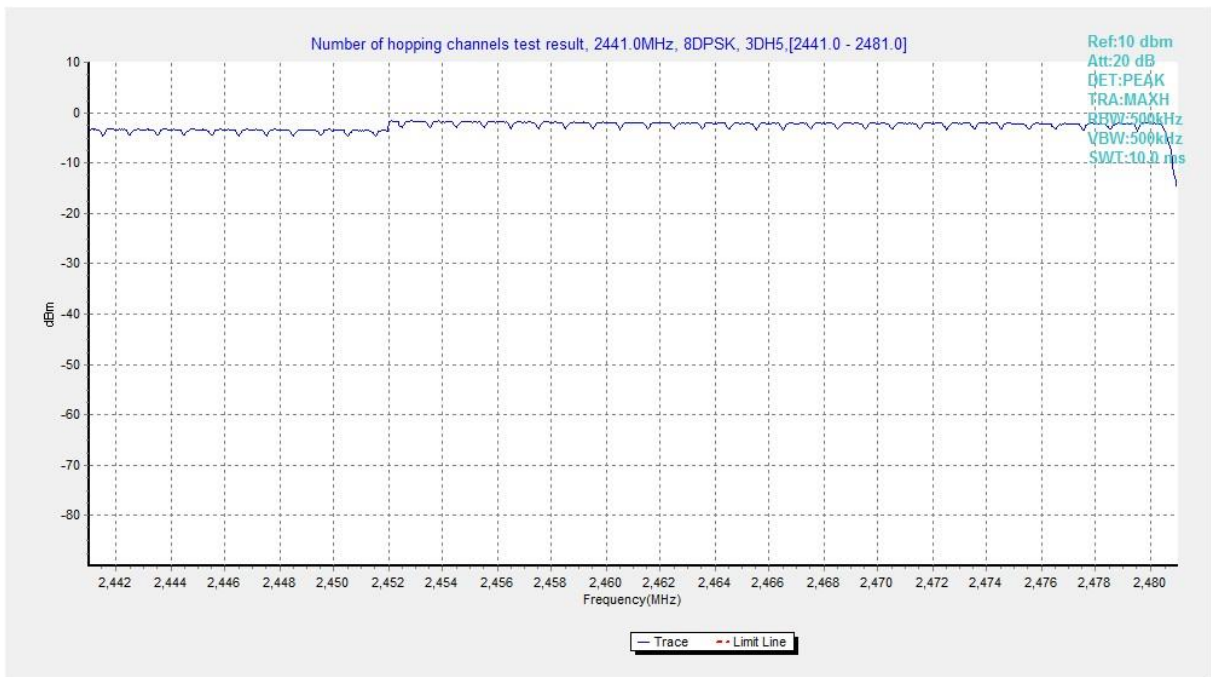


Fig. 119 Hopping channel ch39~78 (8DPSK, Ch39)

### A.8 Carrier Frequency Separation

**Measurement Limit:**

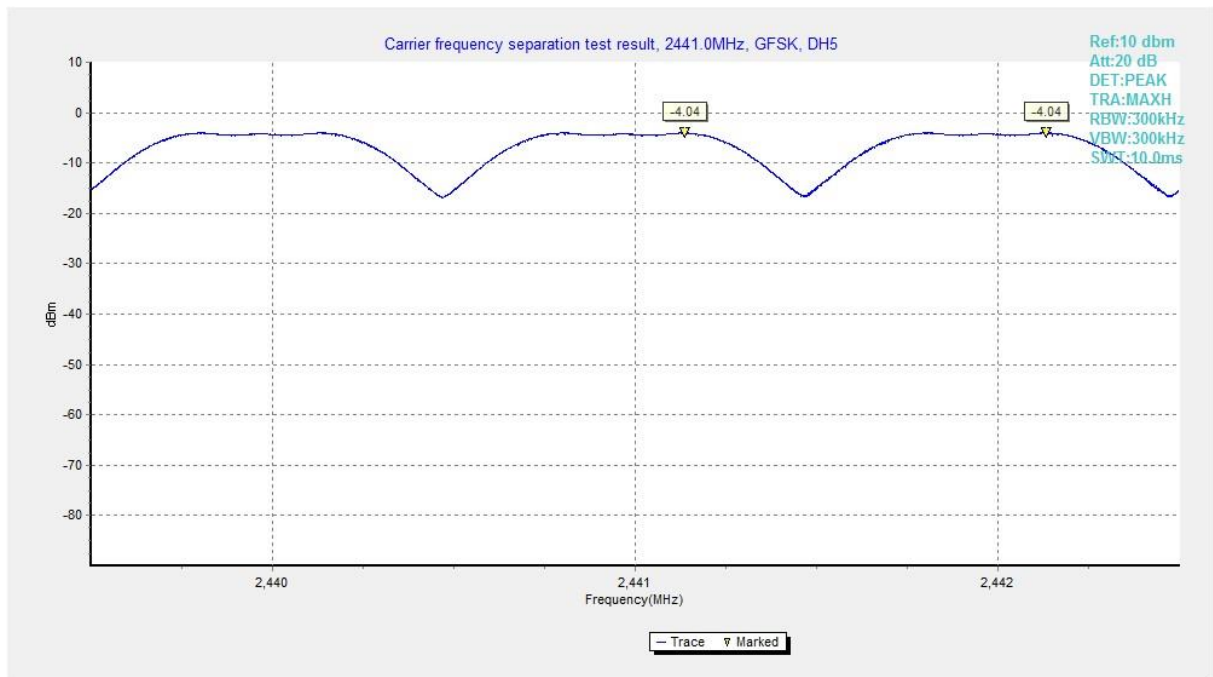
| Standard                  | Limit  |
|---------------------------|--|
| FCC 47 CFR Part 15.247(a) | By a minimum of 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater |

**Measurement Results:**

| Mode          | Channel | Packet | Separation of hopping channels | Test result (KHz) | Conclusion |
|---------------|---------|--------|--------------------------------|-------------------|------------|
| GFSK          | 39      | DH5    | Fig.120                        | 995.25            | <b>P</b>   |
| $\pi/4$ DQPSK | 39      | 2-DH5  | Fig.121                        | 1002.75           | <b>P</b>   |
| 8DPSK         | 39      | 3-DH5  | Fig.122                        | 1010.25           | <b>P</b>   |

See below for test graphs.

**Conclusion: Pass**



**Fig. 120 Carrier Frequency Separation (GFSK, Ch39)**

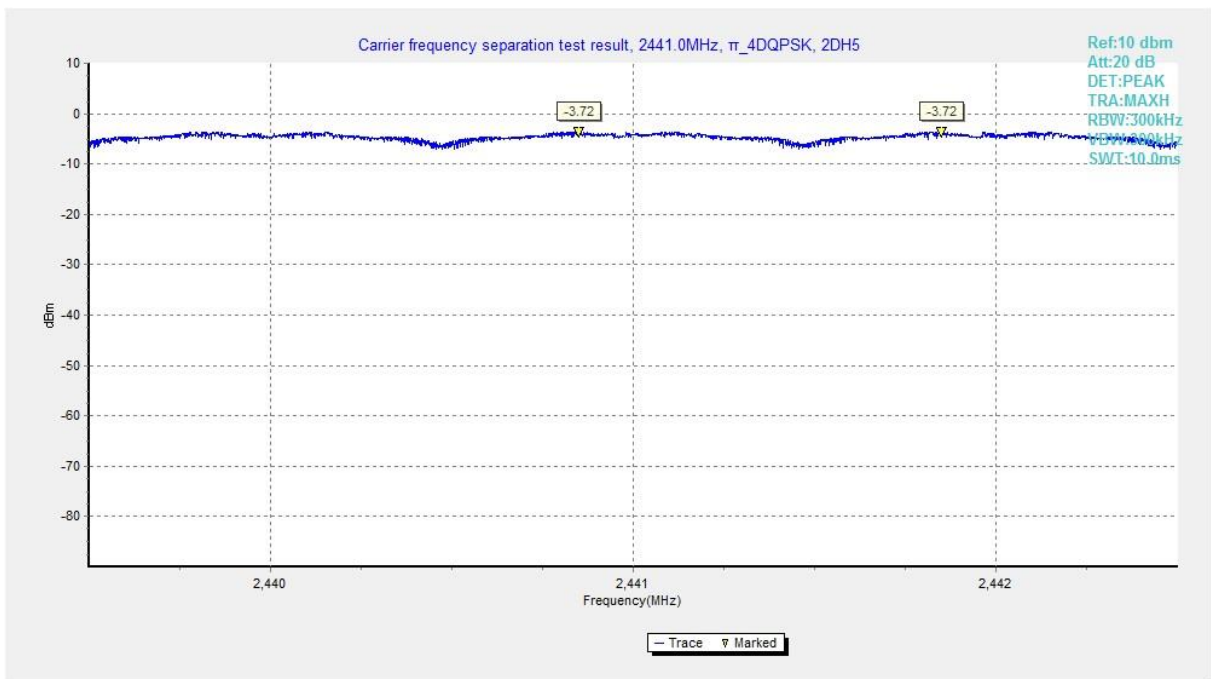


Fig. 121 Carrier Frequency Separation ( $\pi/4$  DQPSK, Ch39)

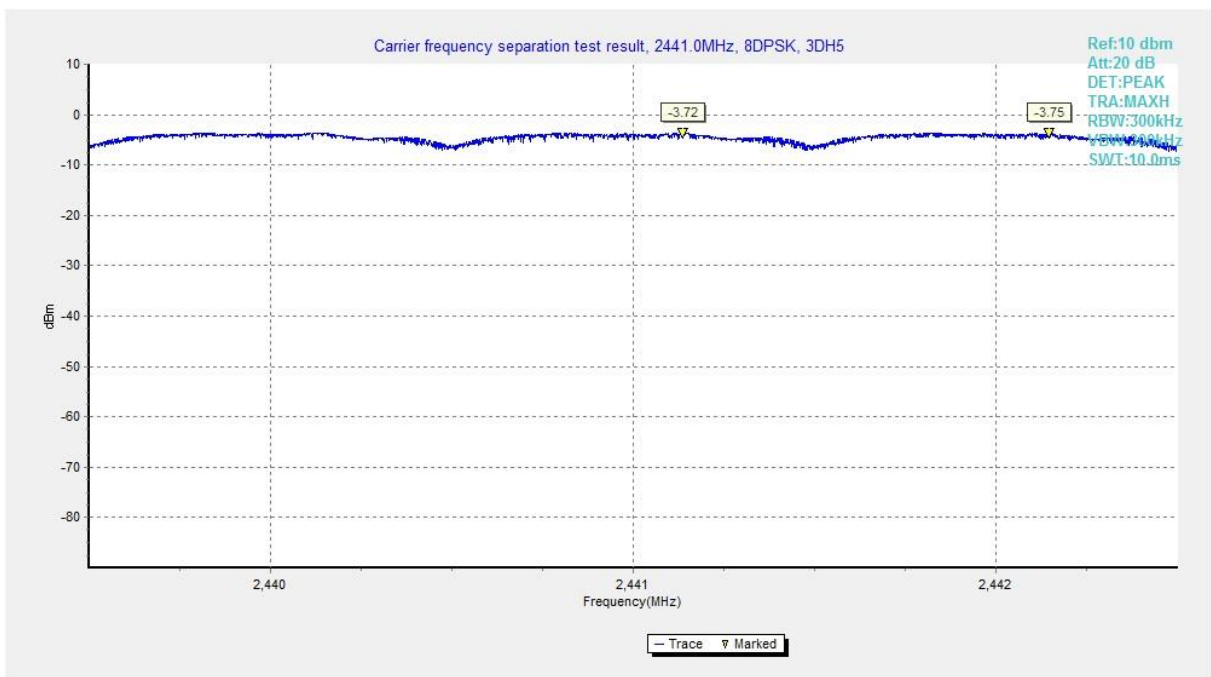


Fig. 122 Carrier Frequency Separation (8DPSK, Ch39)

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