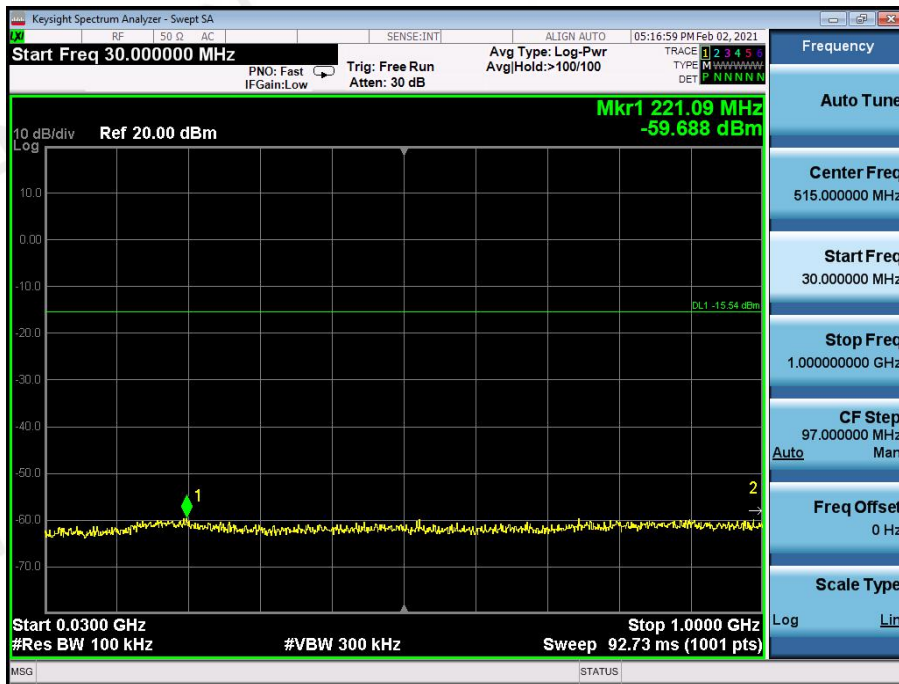


30MHz~1GHz



1GHz~25GHz

CH: 2441MHz



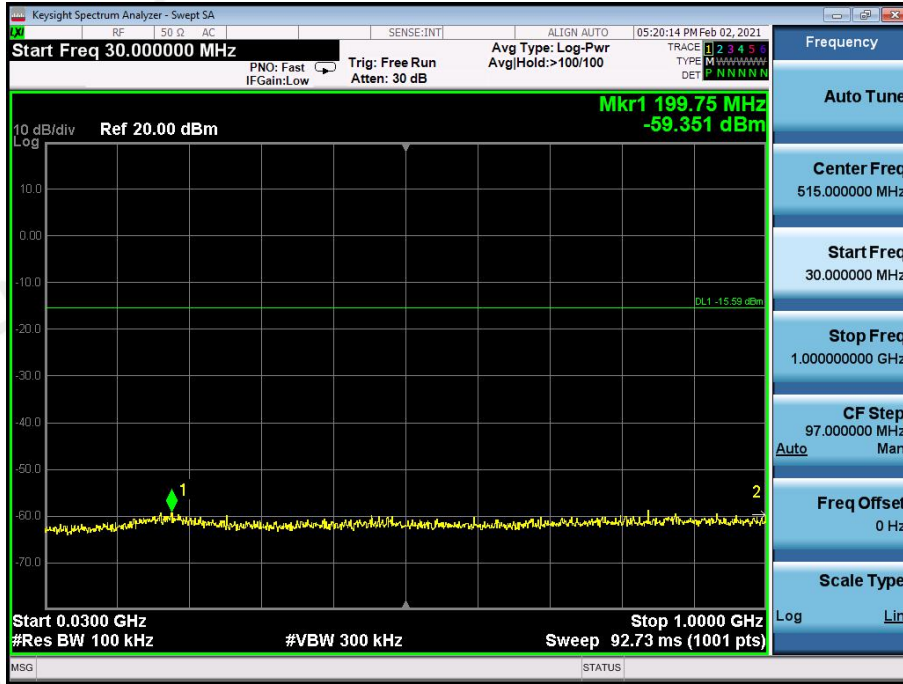
30MHz~1GHz



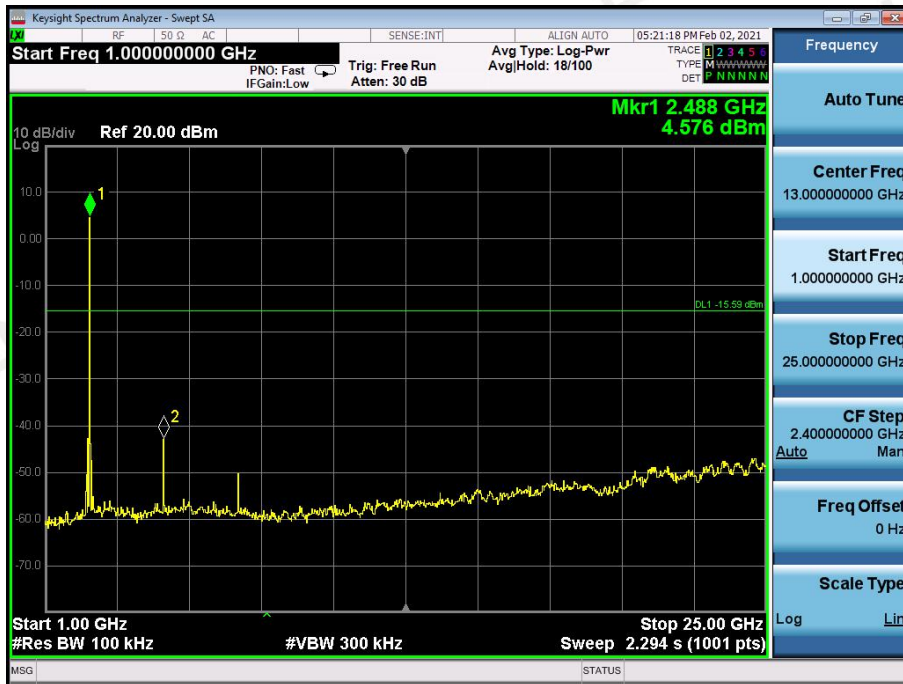
1GHz~25GHz

CH: 2480MHz





30MHz~1GHz



1GHz~25GHz

11. NUMBER OF HOPPING FREQUENCY

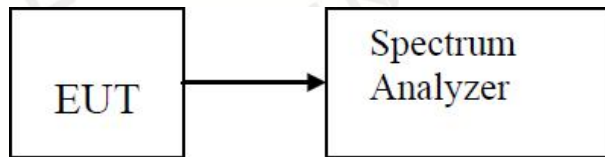
11.1 Test Limit

Frequency hopping systems in the 2400 – 2483.5MHz band shall use at least 15 channels.

11.2 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. Set spectrum analyzer start 2400MHz to 2483.5MHz with RBW=1MHz and VBW=3MHz.

11.3 Test Setup

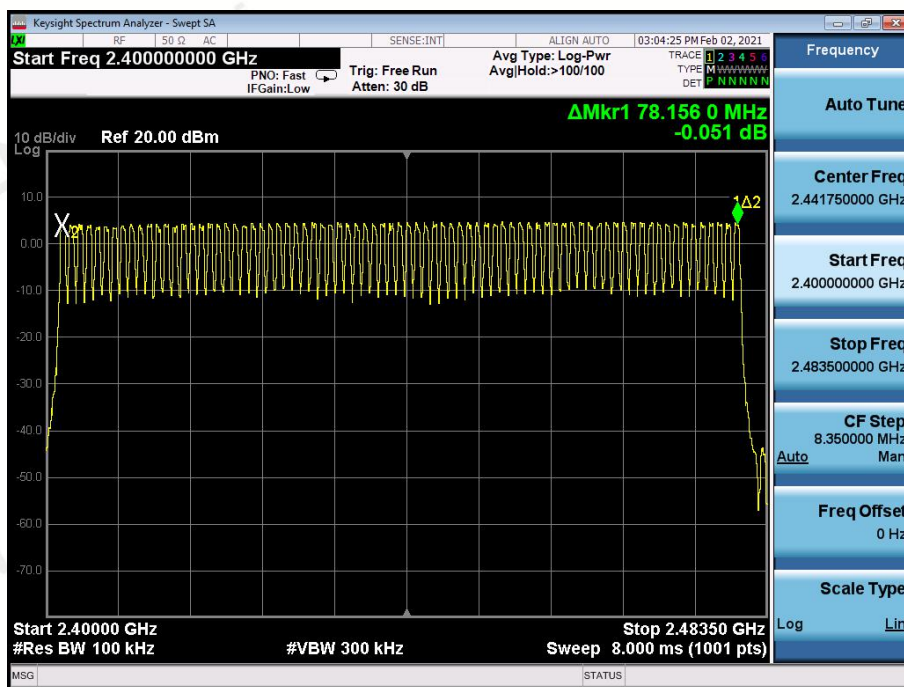


11.4 Test Result

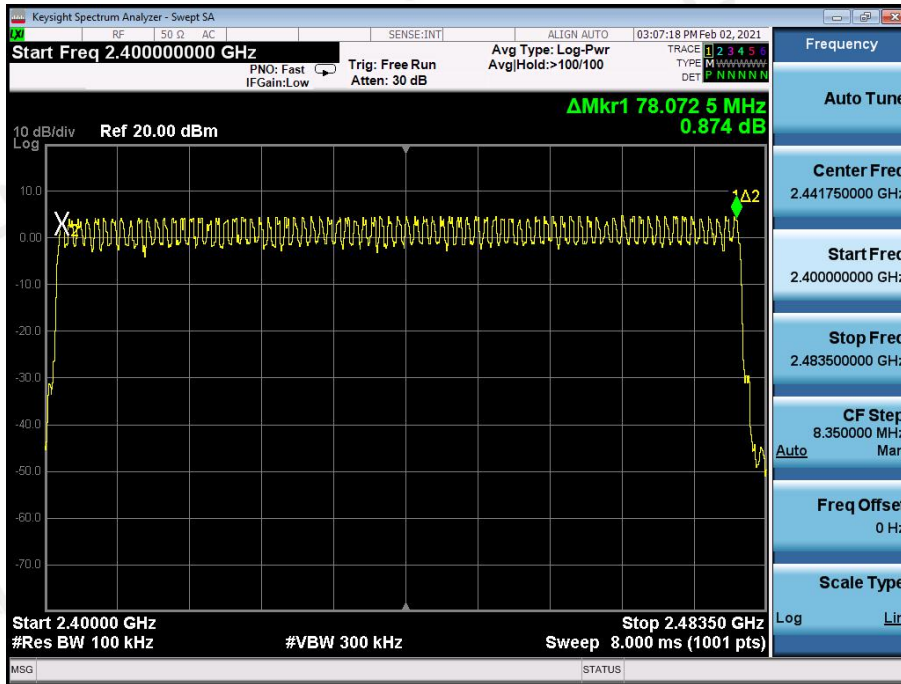
PASS

Modulation	Number of Hopping Channel	Limit	Result
GFSK	78	≥15	Pass
$\pi/4$ DQPSK	78		
8DPSK	78		

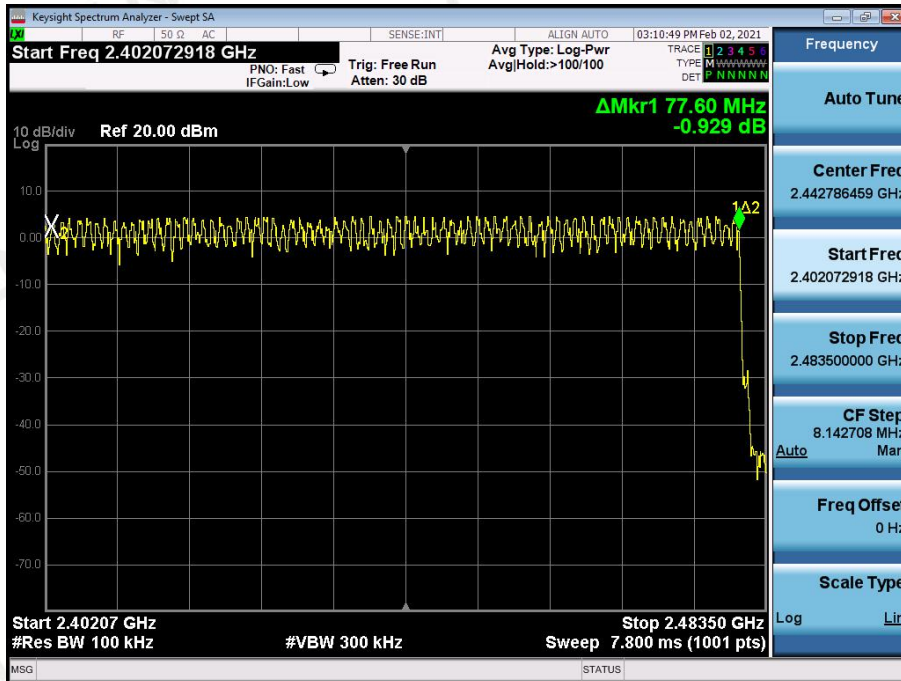
GFSK



$\pi/4$ DQPSK



8DPSK



12. TIME OF OCCUPANCY(DWELL TIME)

12.1 Test Limit

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a pe-riod of 0.4 seconds multiplied by the number of hopping channels employed.

12.2 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. Set center frequency of spectrum analyzer=operating frequency with RBW=1MHz and VBW=3MHz,Span=0Hz.

12.3 TestSetup

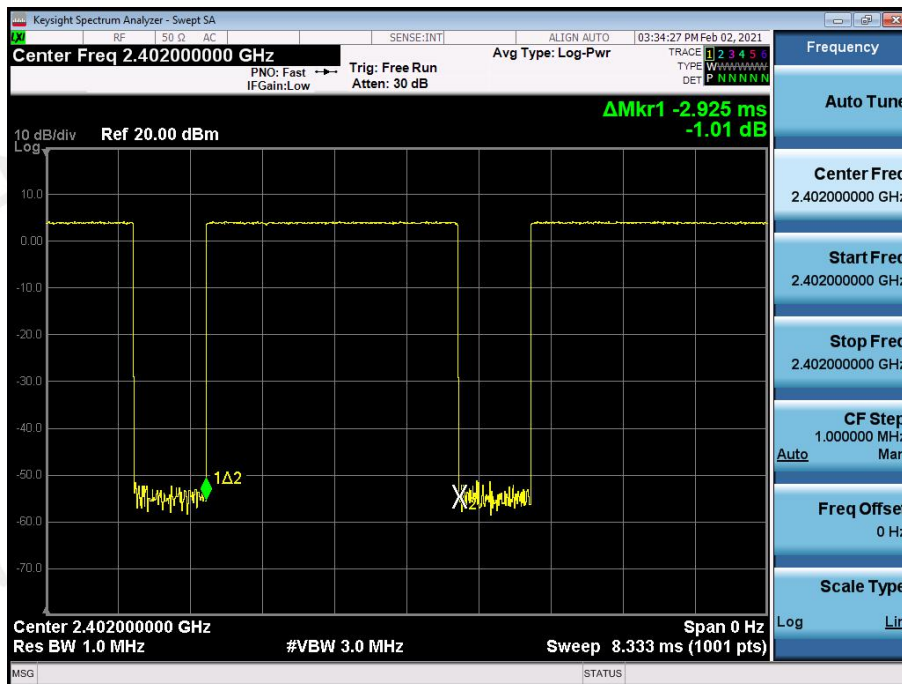


12.4 Test Result

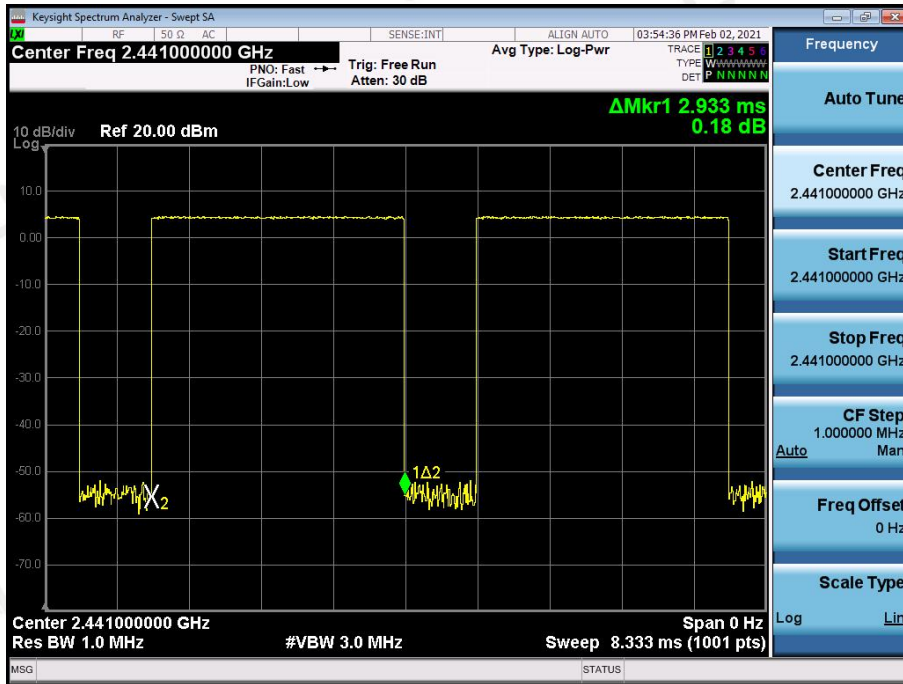
PASS

Type	Modulation	CH	Pulse time(ms)	Dwell Time(ms)	Limit(ms)	Result
Dwell Time	GFSK	Low	2.93	312.53	400	Pass
		Mid	2.93	312.53	400	Pass
		High	2.93	312.53	400	Pass

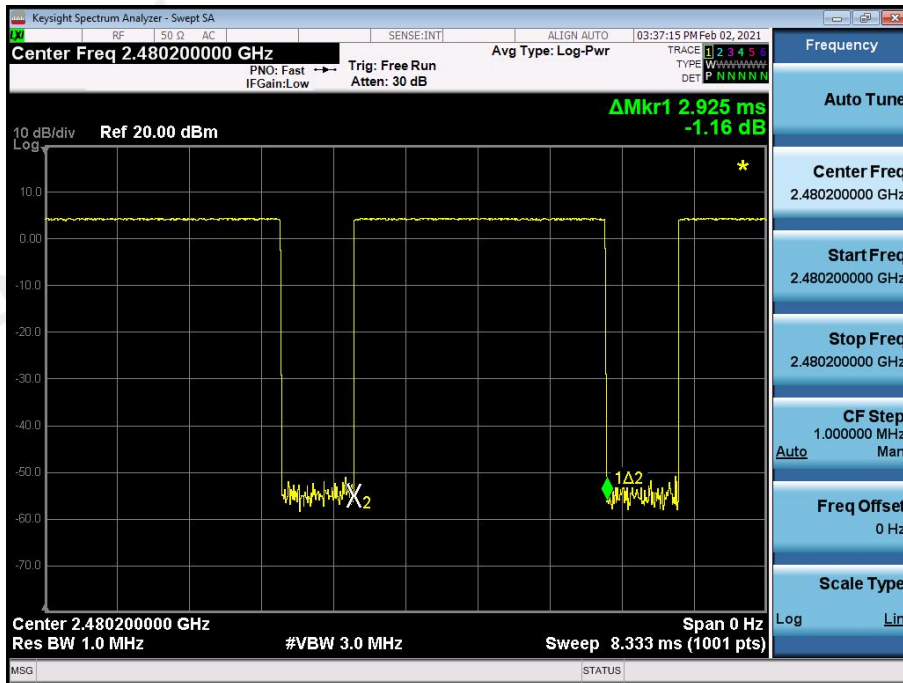
CH: 2402MHz



CH: 2441MHz

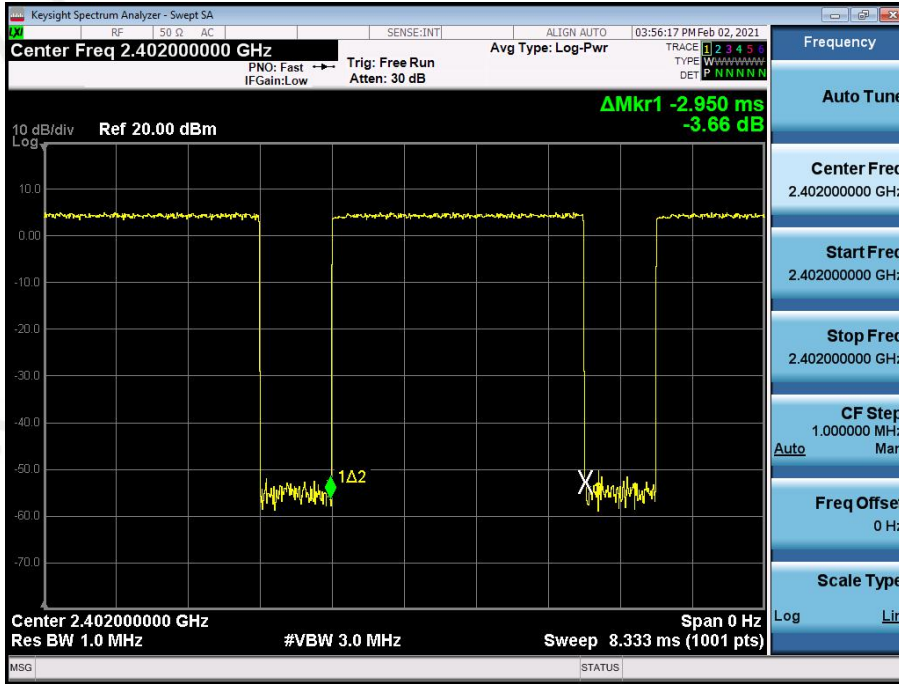


CH: 2480MHz

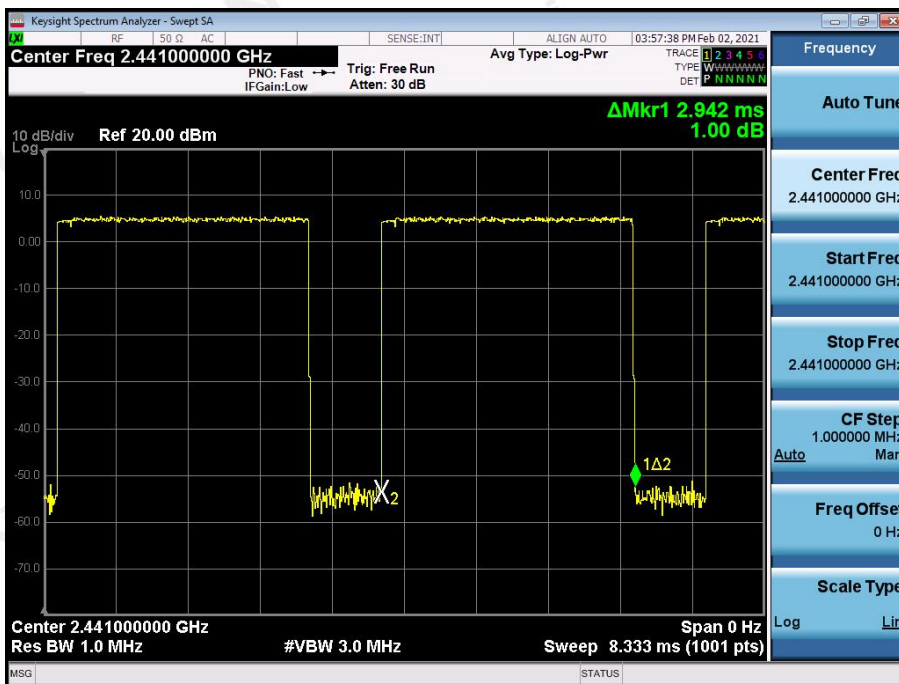


Type	Modulation	CH	Pulse time(ms)	Dwell Time(ms)	Limit(ms)	Result
Dwell Time	$\pi/4$ DQPSK	Low	2.95	314.67	400	Pass
		Mid	2.94	313.60	400	Pass
		High	2.95	314.67	400	Pass

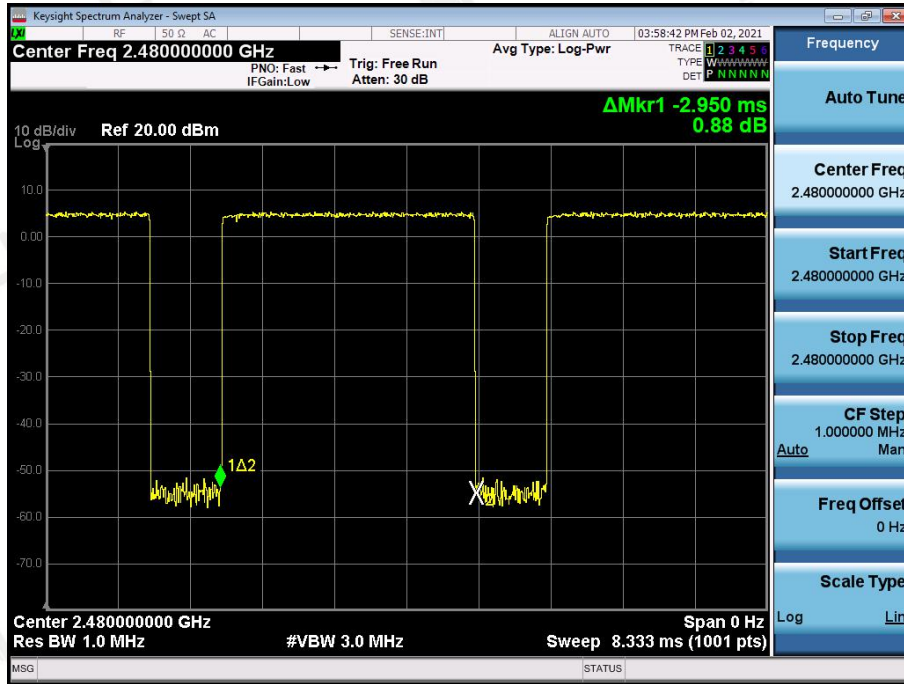
CH: 2402MHz



CH: 2441MHz

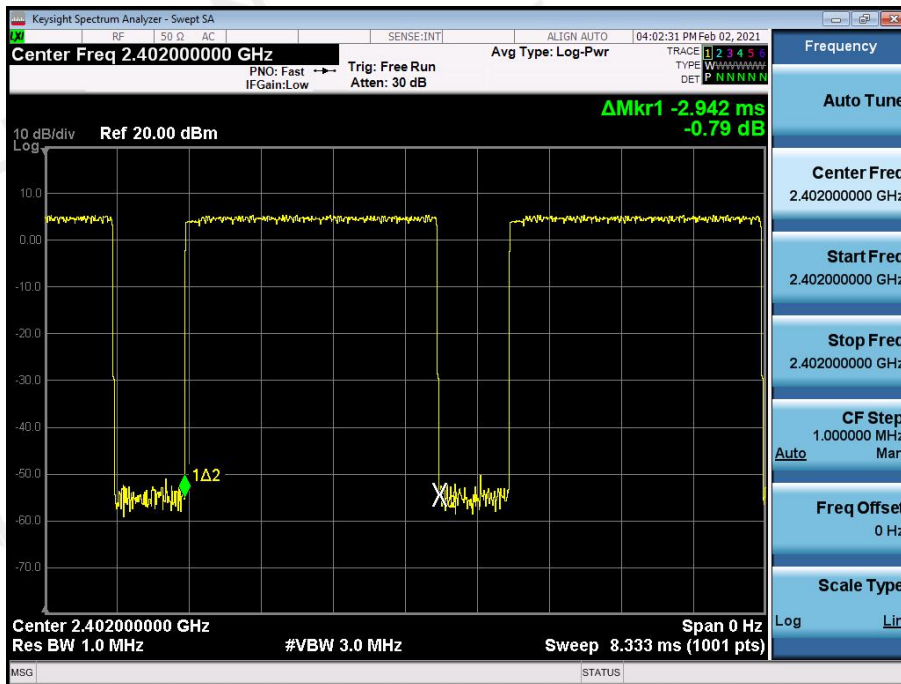


CH: 2480MHz

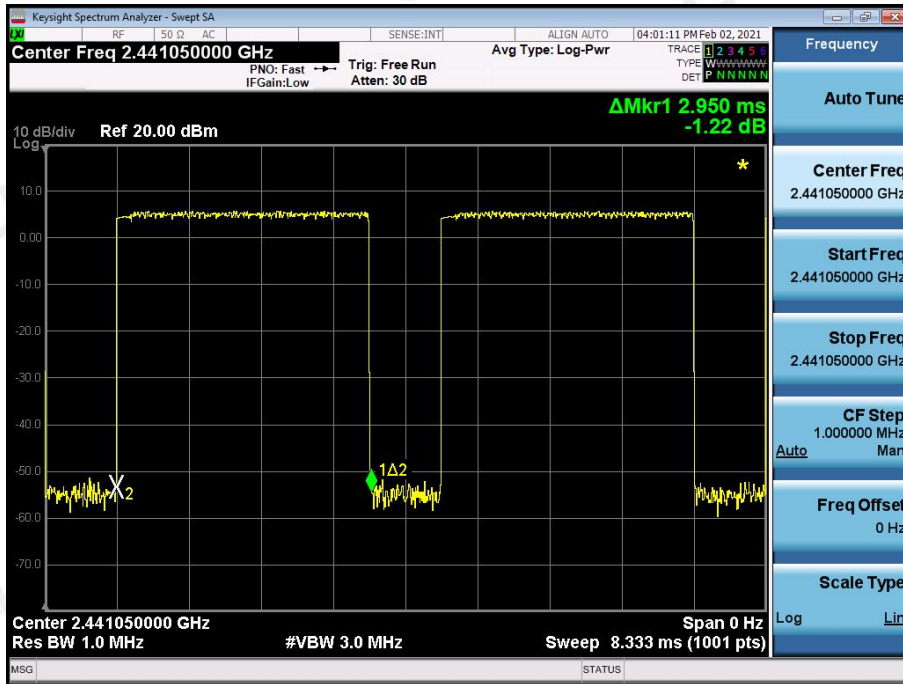


Type	Modulation	CH	Pulse time(ms)	Dwell Time(ms)	Limit(ms)	Result
Dwell Time	8DPSK	Low	2.94	313.60	400	Pass
		Mid	2.95	314.67	400	Pass
		High	2.94	313.60	400	Pass

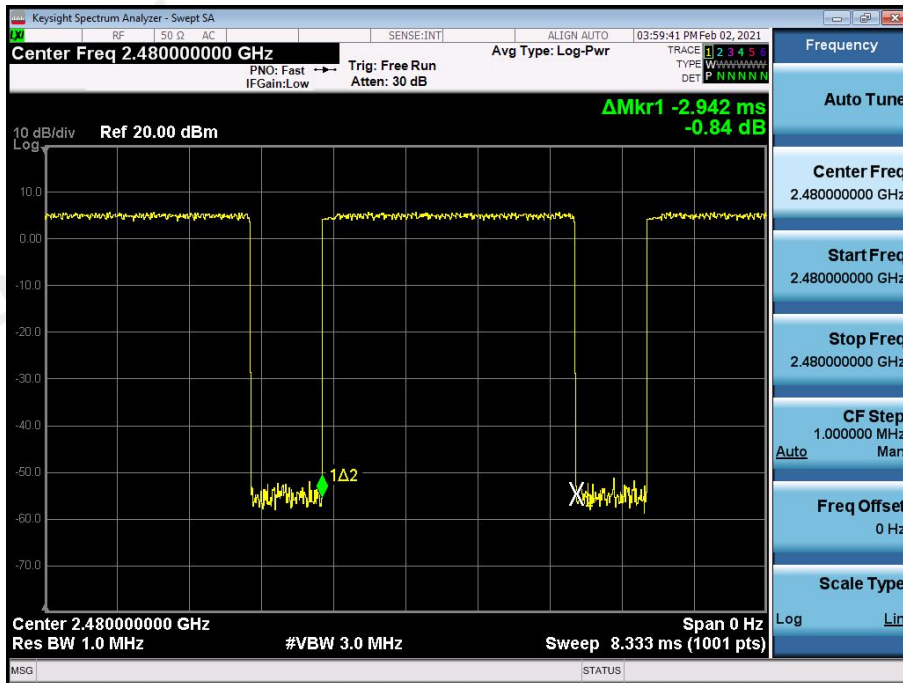
CH: 2402MHz



CH: 2441MHz



CH: 2480MHz



13. PSEUDORANDOM FREQUENCY HPPPING SEQUENCE

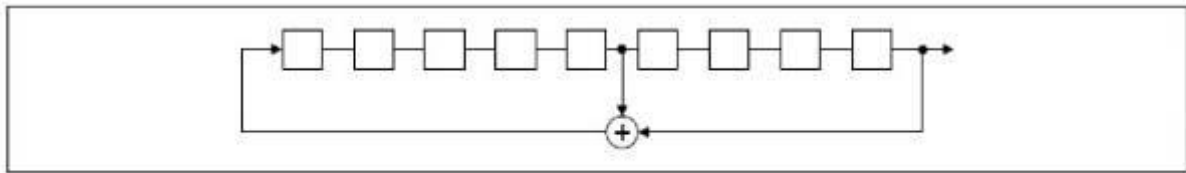
For 47 CFR Part 15C section 15.247 (a)(1) requirement

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400 - 2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo-randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

TEUT Pseudorandom Frequency Hopping Sequence Requirement

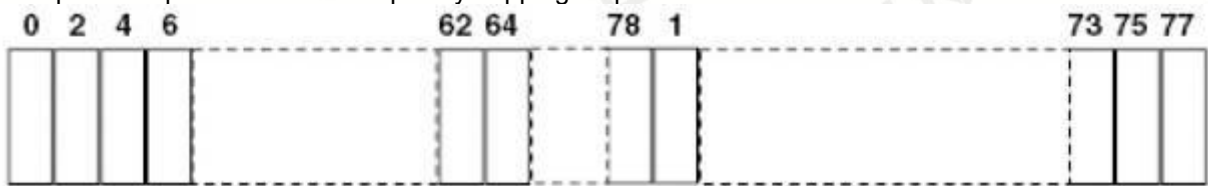
The pseudorandom frequency hopping sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones, for example: the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: $2^9 - 1 = 511$ bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of pseudorandom frequency hopping sequence as follows:



Each frequency used equally on the average by each transmitter. The system receiver has input bandwidths that match the hopping channel bandwidths of their corresponding transmitter and shifts frequencies in synchronization with the transmitted signals.

14. ANTENNA REQUIREMENT

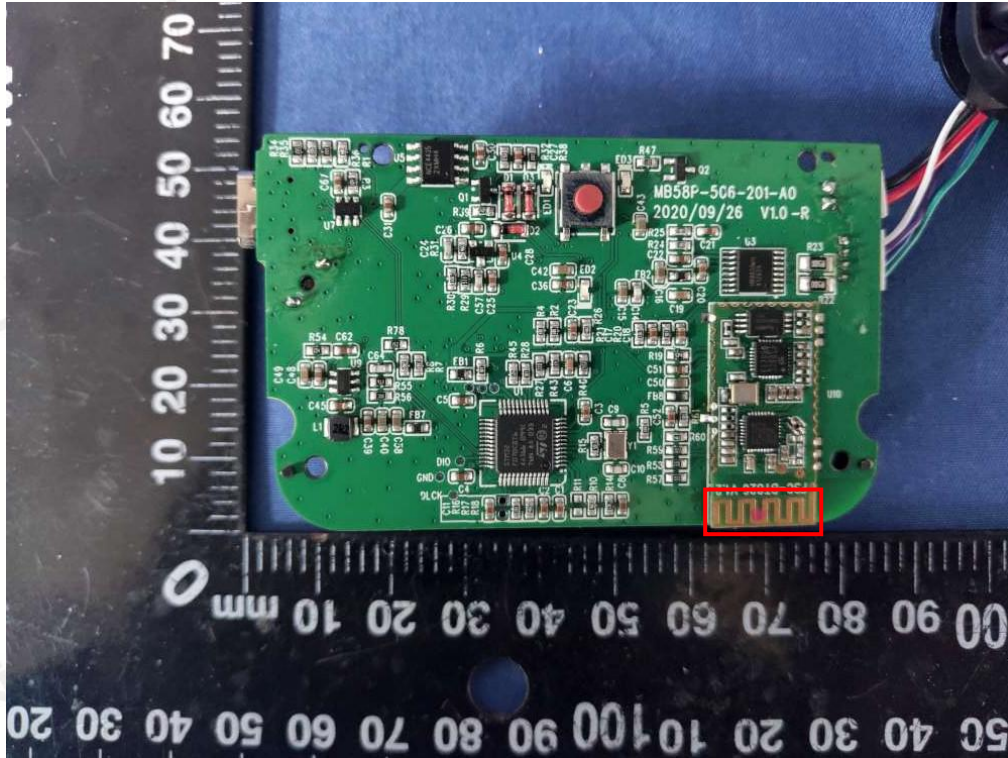
Standard Applicable:

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Antenna Connected Construction

The antenna used in this product is an Internal Antenna, The directional gains of antenna used for transmitting is 0dBi.

BT ANTENNA:



15. PHOTOGRAPH OF TEST

**Radiated Emission
(Below 1G)**



**Radiated Emission
(Above 1G)**



Conducted Emission



End of Report