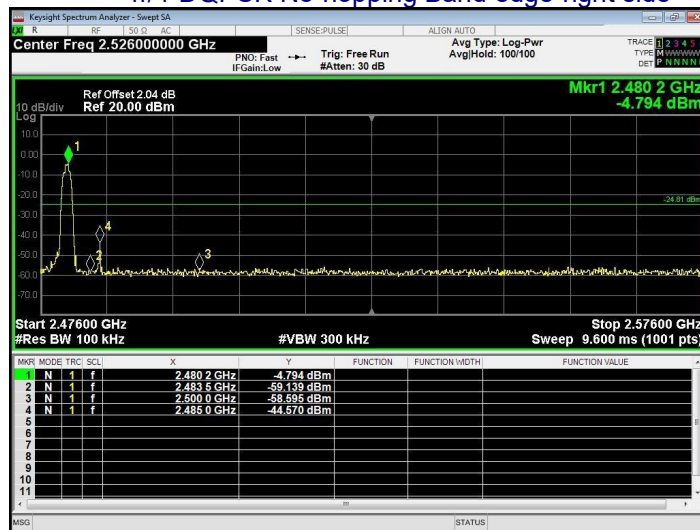
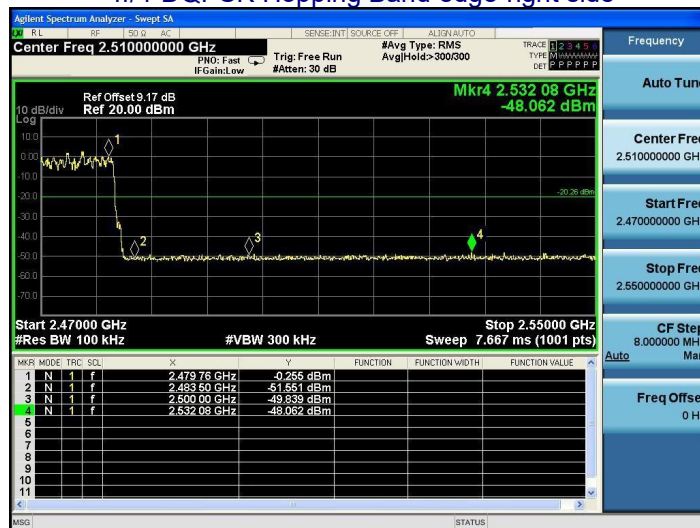


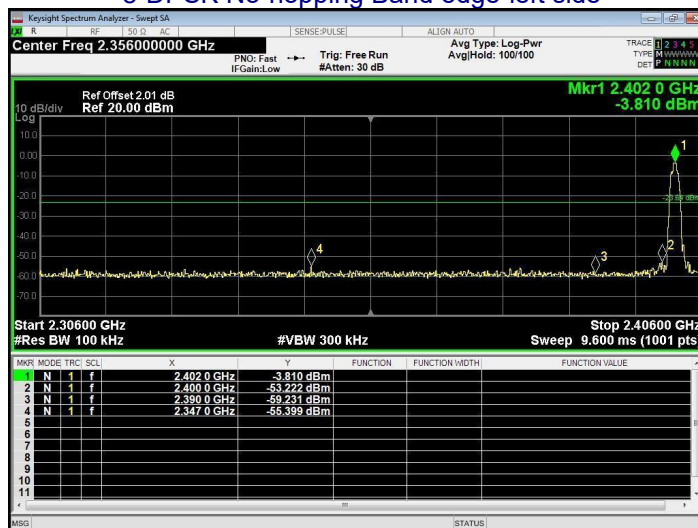
$\pi/4$ -DQPSK No-hopping Band edge-right side



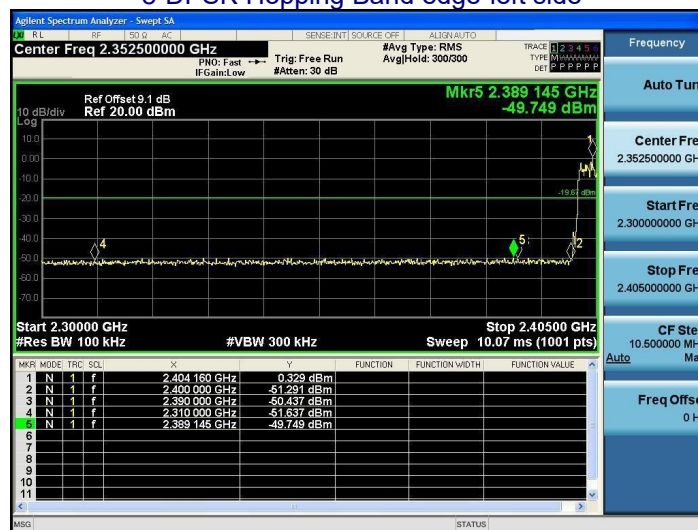
$\pi/4$ -DQPSK Hopping Band edge-right side



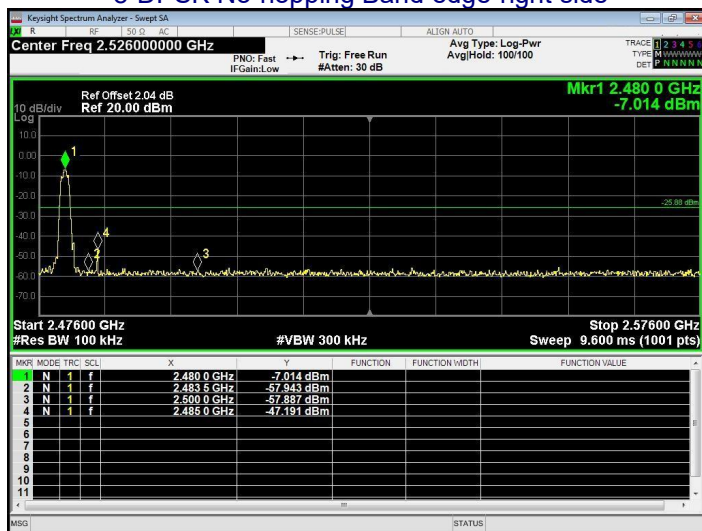
8-DPSK No-hopping Band edge-left side



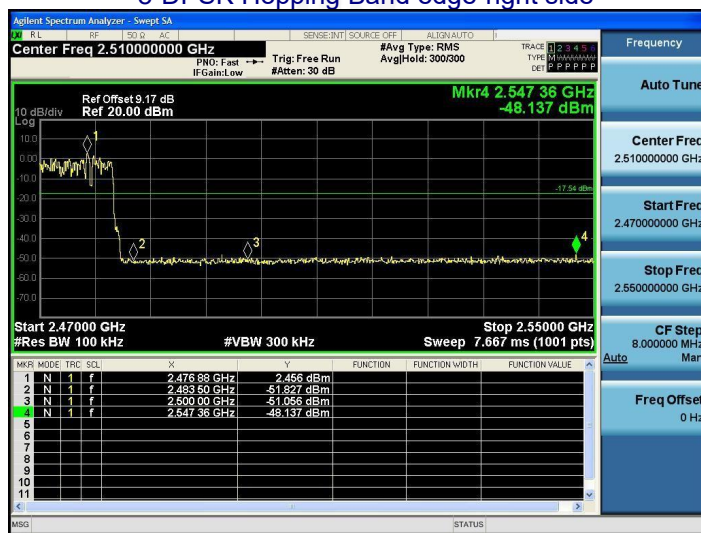
8-DPSK Hopping Band edge-left side



8-DPSK No-hopping Band edge-right side



8-DPSK Hopping Band edge-right side



7. 20DB BANDWIDTH

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013

7.1 Test Setup



7.2 Limit

N/A

7.3 Test procedure

1. Set RBW = 30 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.4 DEVIATION FROM STANDARD

No deviation.

7.5 Test Result

Mode	Test channel	20dB Emission Bandwidth (MHz)	Result
GFSK	Lowest	0.873	Pass
	Middle	0.859	
	Highest	0.873	
$\pi/4$ -DQPSK	Lowest	1.418	Pass
	Middle	1.431	
	Highest	1.407	
8-DPSK	Lowest	1.442	Pass
	Middle	1.429	
	Highest	1.440	

Test plots

GFSK Low Channel



GFSK Middle Channel



GFSK High Channel



$\pi/4$ -DQPSK Low Channel



$\pi/4$ -DQPSK Middle Channel



$\pi/4$ -DQPSK High Channel



8-DPSK Low Channel



8-DPSK Middle Channel



8-DPSK High Channel



8. Maximum Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(1)
Test Method:	ANSI C63.10:2013
Limit:	30dBm(for GFSK), 20.97dBm(for EDR)

8.1 Block Diagram Of Test Setup



8.2 Limit

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt.
For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

8.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 2MHz. VBW = 6MHz. Sweep = auto; Detector Function = Peak.
3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

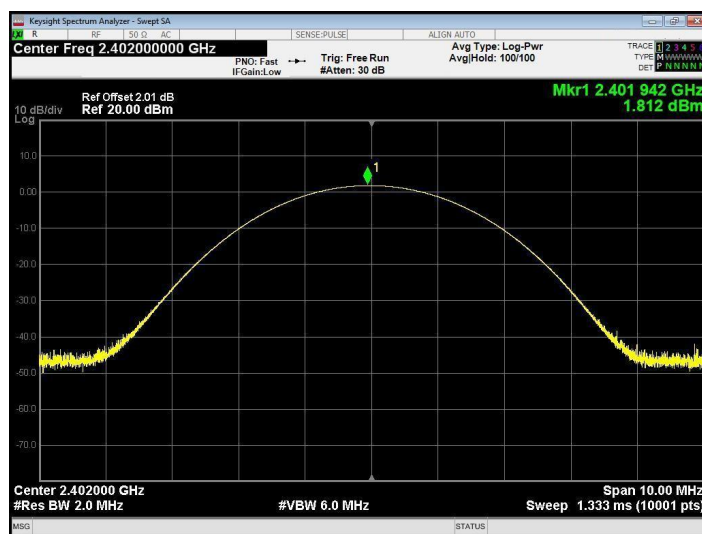
8.4 DEVIATION FROM STANDARD

No deviation.

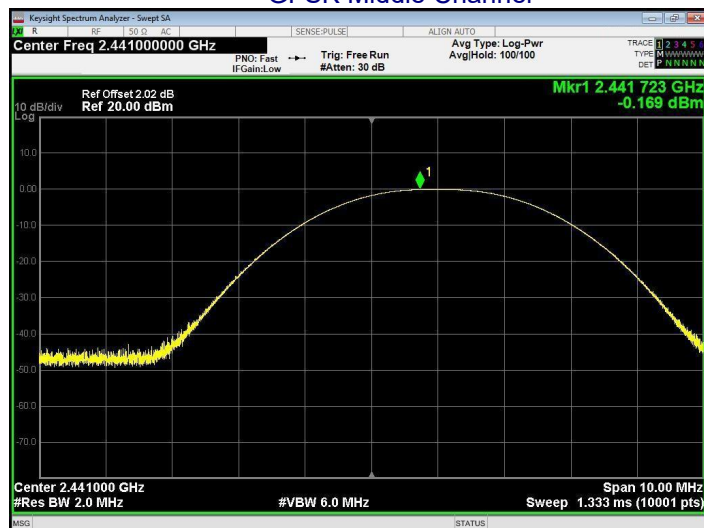
8.5 Test Result

Mode	Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
GFSK	Lowest	1.812	30.00	Pass
	Middle	-0.169		
	Highest	-0.163		
$\pi/4$ -DQPSK	Lowest	-0.291	20.97	Pass
	Middle	-1.685		
	Highest	-2.764		
8-DPSK	Lowest	-1.239	20.97	Pass
	Middle	-2.683		
	Highest	-3.831		

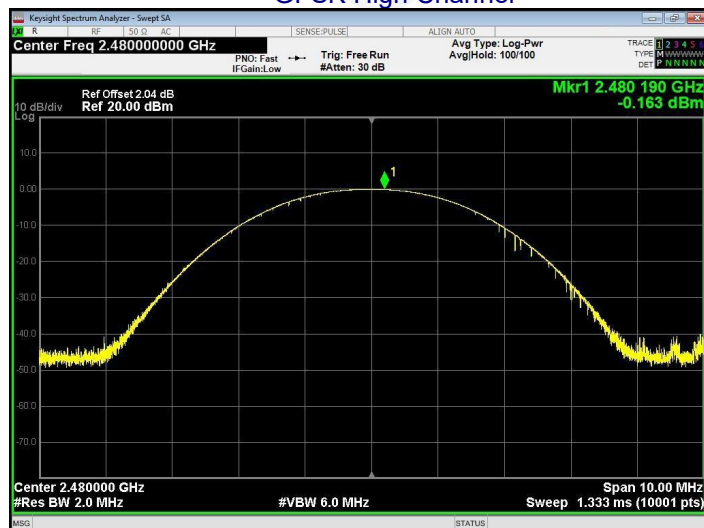
Test plots
GFSK Low Channel



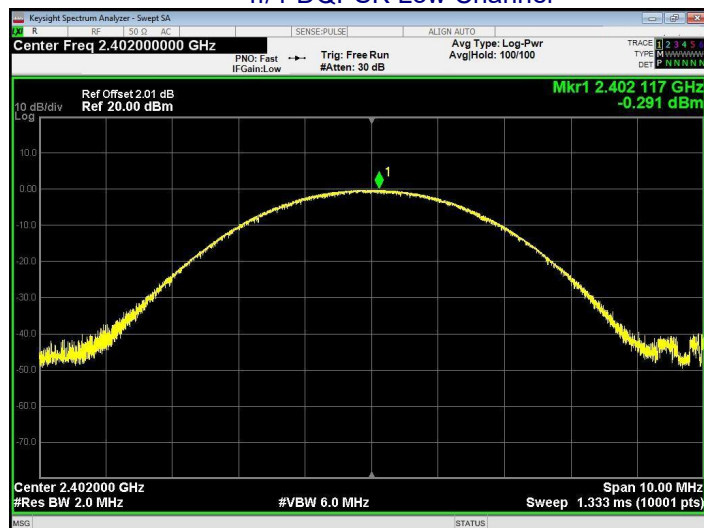
GFSK Middle Channel



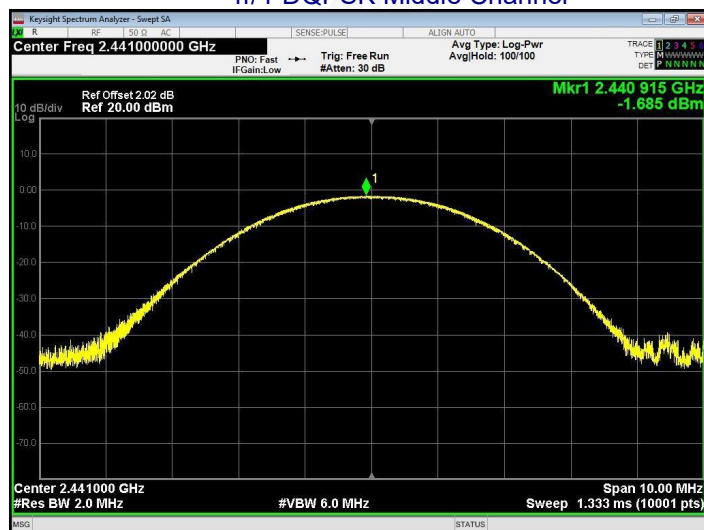
GFSK High Channel



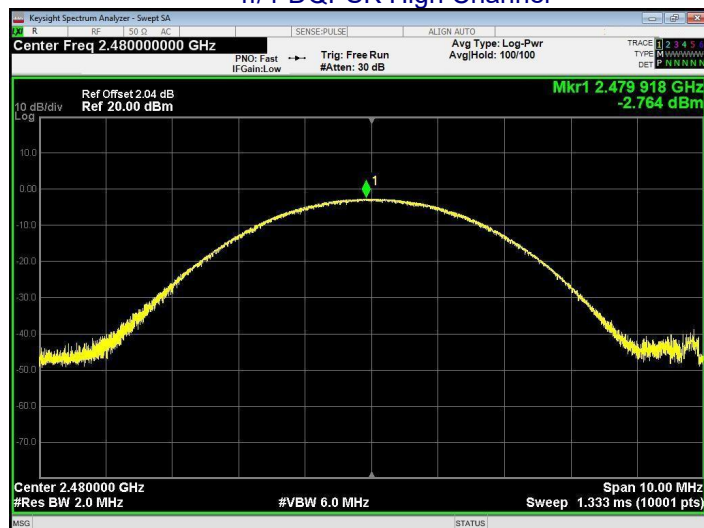
$\pi/4$ -DQPSK Low Channel



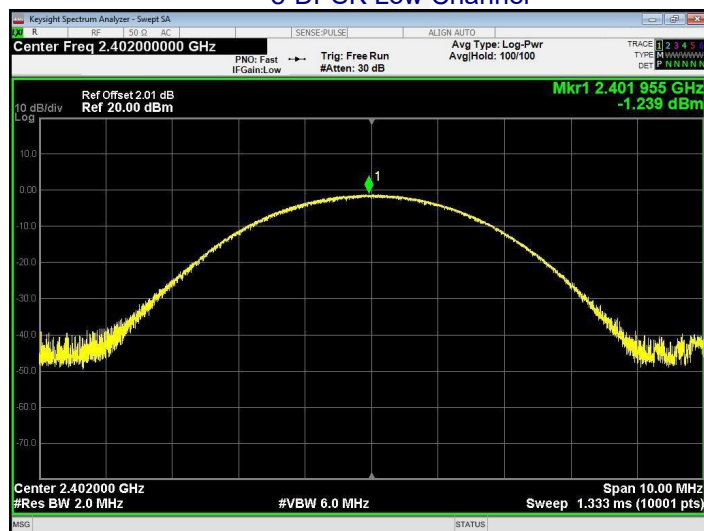
$\pi/4$ -DQPSK Middle Channel



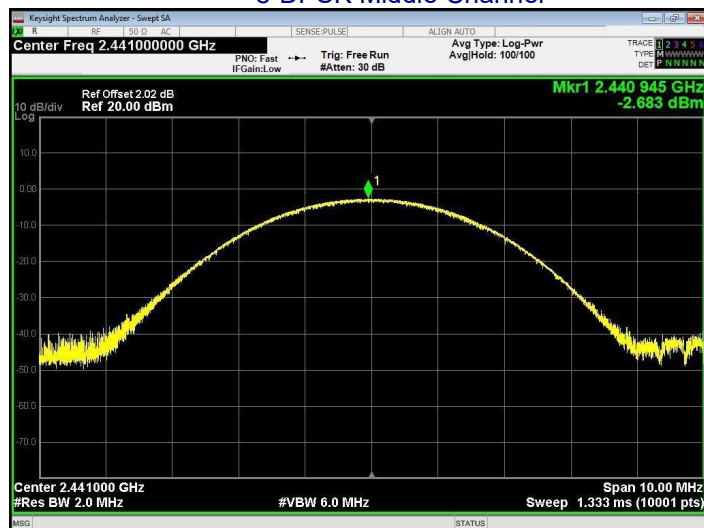
$\pi/4$ -DQPSK High Channel



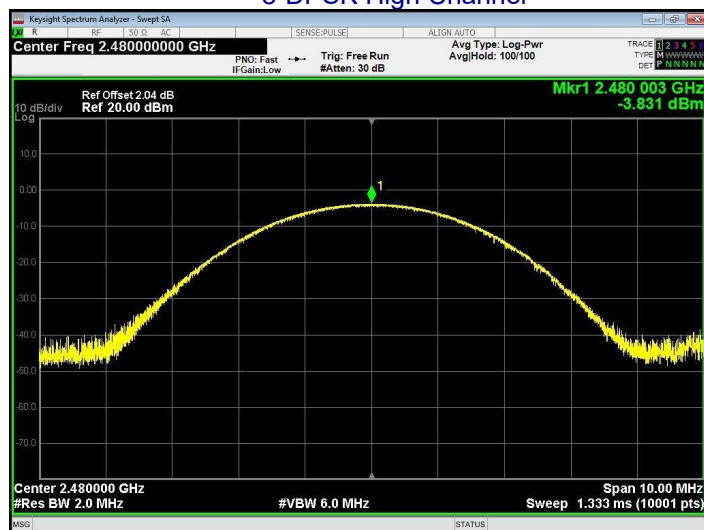
8-DPSK Low Channel



8-DPSK Middle Channel



8-DPSK High Channel



9. HOPPING CHANNEL SEPARATION

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=100KHz, VBW=300KHz, detector=Peak
Limit:	GFSK: 20dB bandwidth $\pi/4$ -DQPSK & 8DSK: 0.025MHz or 2/3 of the 20dB bandwidth (whichever is greater)

9.1 Test Setup



9.2 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 30kHz. VBW = 100kHz , Span = 3.0MHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 Test Result

Modulation	Test Channel	Separation (MHz)	Limit(MHz)	Result
GFSK	Low	0.998	0.703	PASS
GFSK	Middle	1.002	0.701	PASS
GFSK	High	1.002	0.699	PASS
$\pi/4$ -DQPSK	Low	1.002	0.916	PASS
$\pi/4$ -DQPSK	Middle	1.000	0.917	PASS
$\pi/4$ -DQPSK	High	1.002	0.913	PASS
8-DPSK	Low	1.000	0.896	PASS
8-DPSK	Middle	0.998	0.891	PASS
8-DPSK	High	1.002	0.883	PASS

Test plots
GFSK Low Channel

