

Attachment E-- Average Time of Occupancy Test Data

Temperature:	25°C	Relative Humidity:	55%			
Test Voltage:	DC 3.8V					
Test Mode:	Hopping Mode (GFSK)					
Test Mode	Channel (MHz)	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
1DH1	2441	0.378	120.96	31.60	400	PASS
1DH3	2441	1.635	261.60	31.60	400	PASS
1DH5	2441	2.883	307.52	31.60	400	PASS

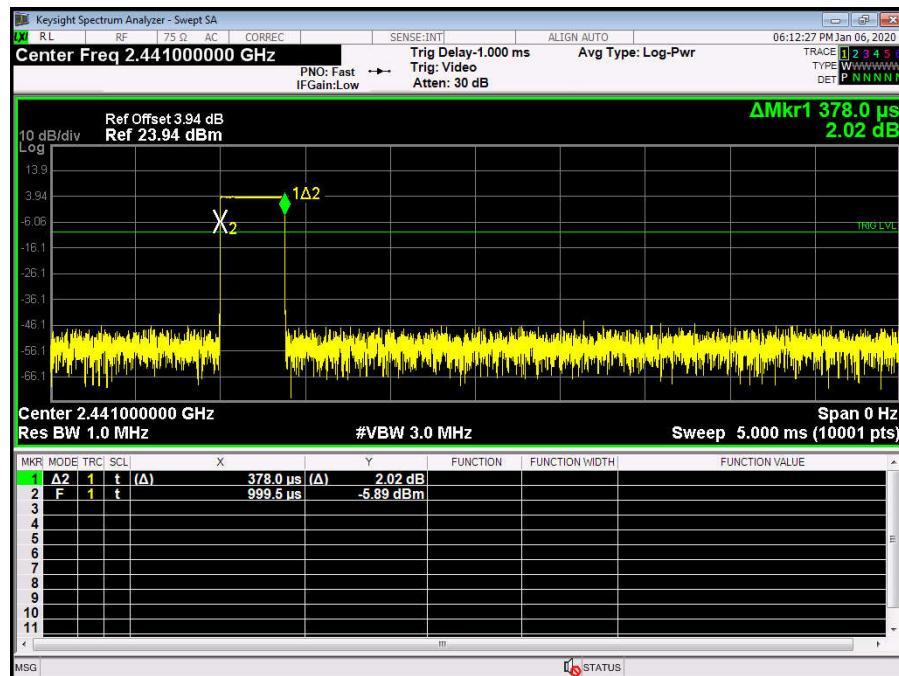
1DH1 Total of Dwell= Pulse Time*(1600/2)*31.6/79

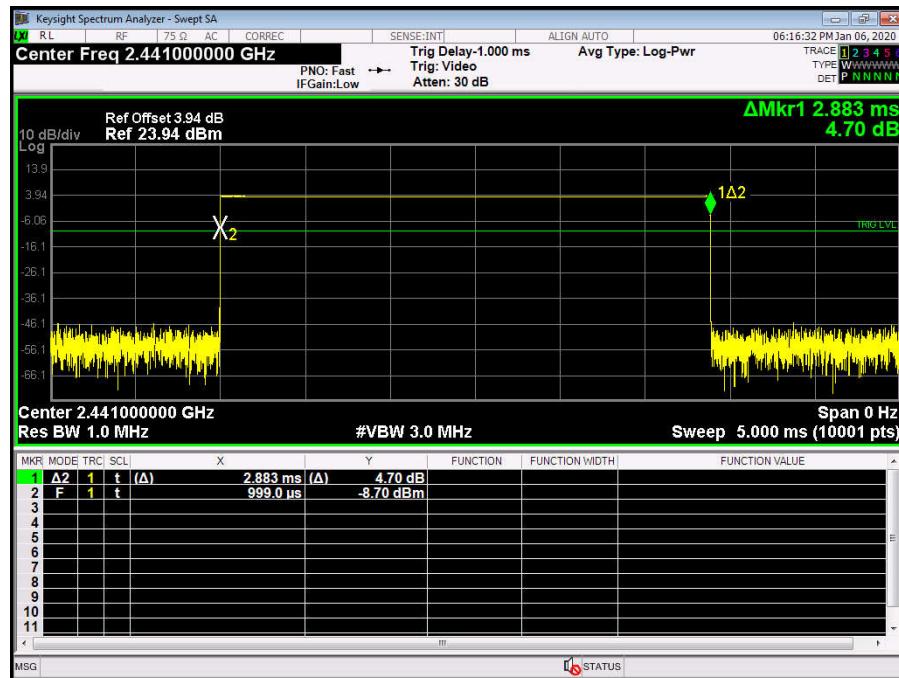
1DH3 Total of Dwell= Pulse Time*(1600/4)*31.6/79

1DH5 Total of Dwell= Pulse Time*(1600/6)*31.6/79

GFSK Hopping Mode 1DH1

2441 MHz



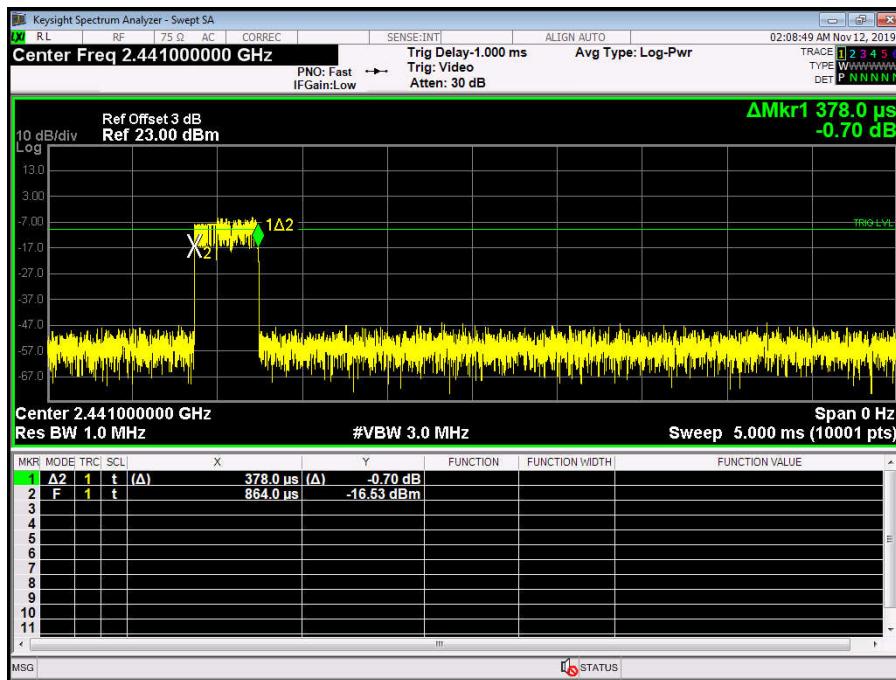
GFSK Hopping Mode 1DH3**2441 MHz****GFSK Hopping Mode 1DH5****2441 MHz**

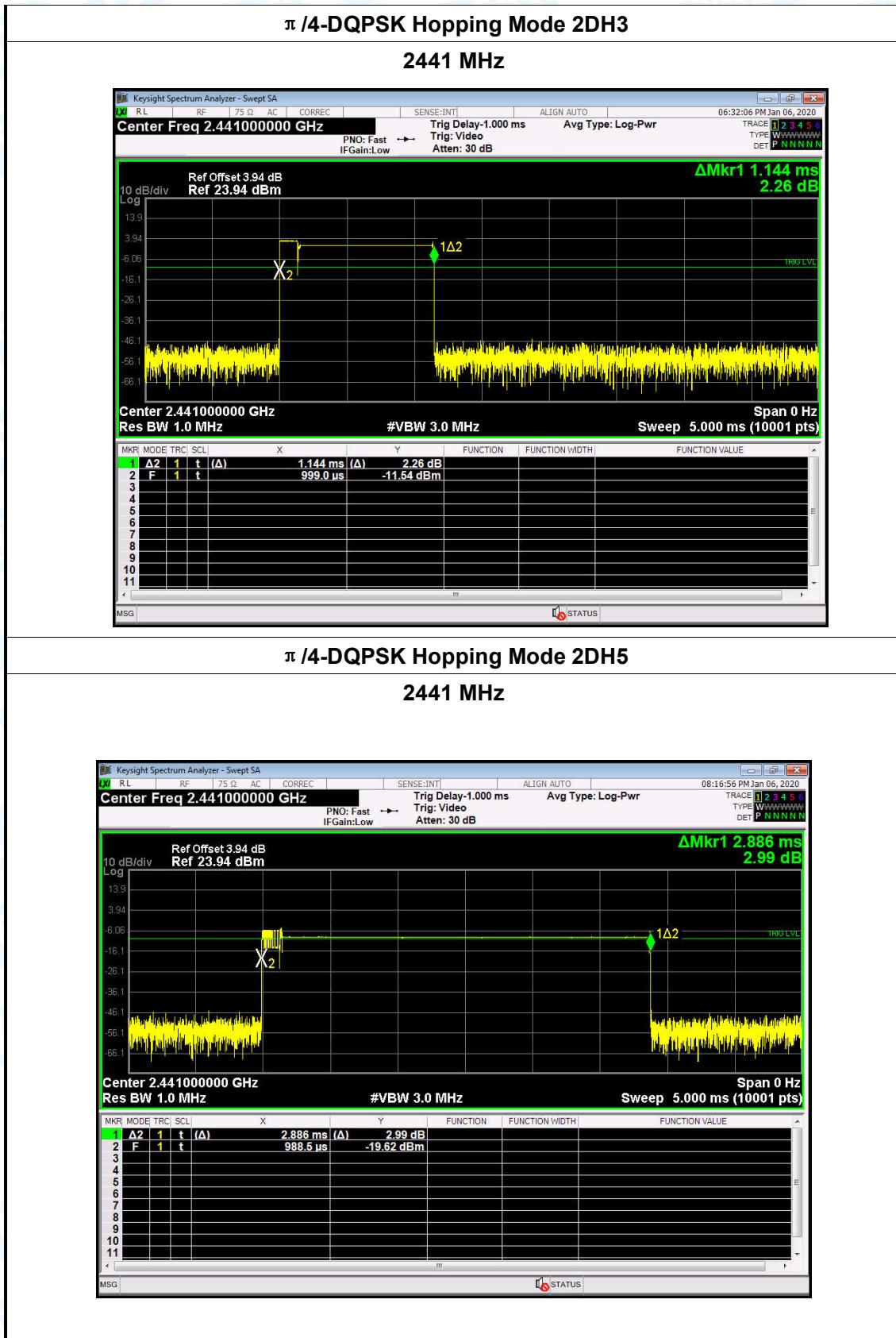
Temperature:	25°C		Relative Humidity:	55%		
Test Voltage:	DC 3.8V					
Test Mode:	Hopping Mode ($\pi/4$ -DQPSK)					
Test Mode	Channel (MHz)	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
2DH1	2441	0.378	120.96	31.60	400	PASS
2DH3	2441	1.144	183.04	31.60	400	PASS
2DH5	2441	2.886	307.84	31.60	400	PASS

2DH1 Total of Dwell= Pulse Time*(1600/2)*31.6/79
 2DH3 Total of Dwell= Pulse Time*(1600/4)*31.6/79
 2DH5 Total of Dwell= Pulse Time*(1600/6)*31.6/79

 $\pi/4$ -DQPSK Hopping Mode 2DH1

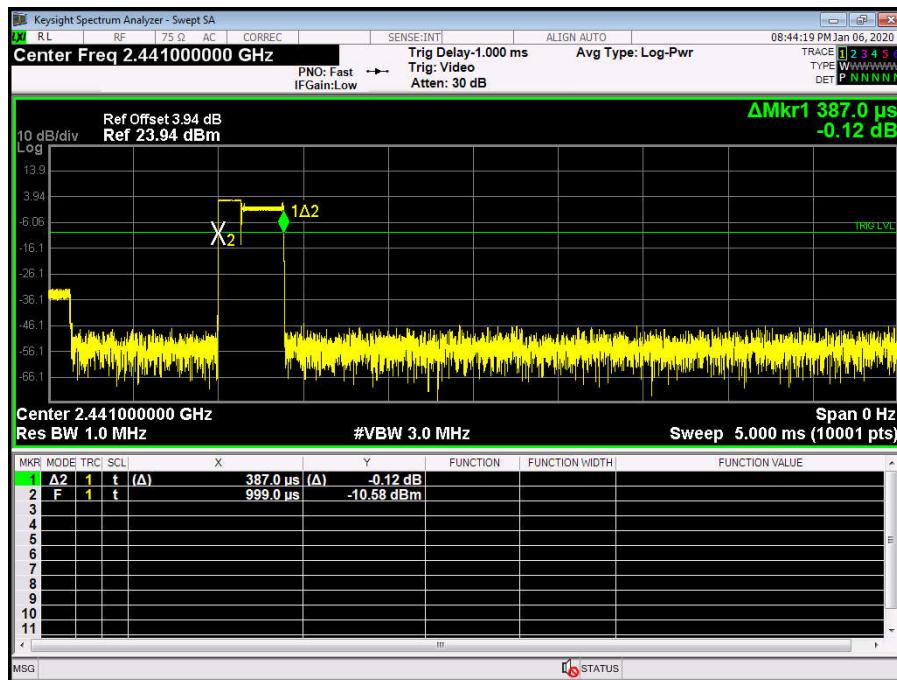
2441 MHz

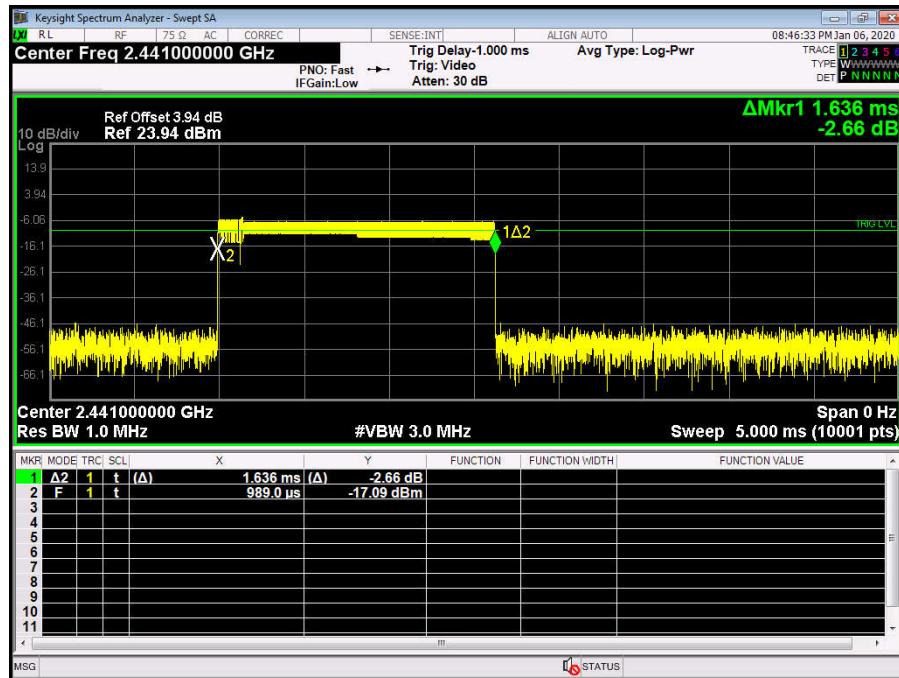




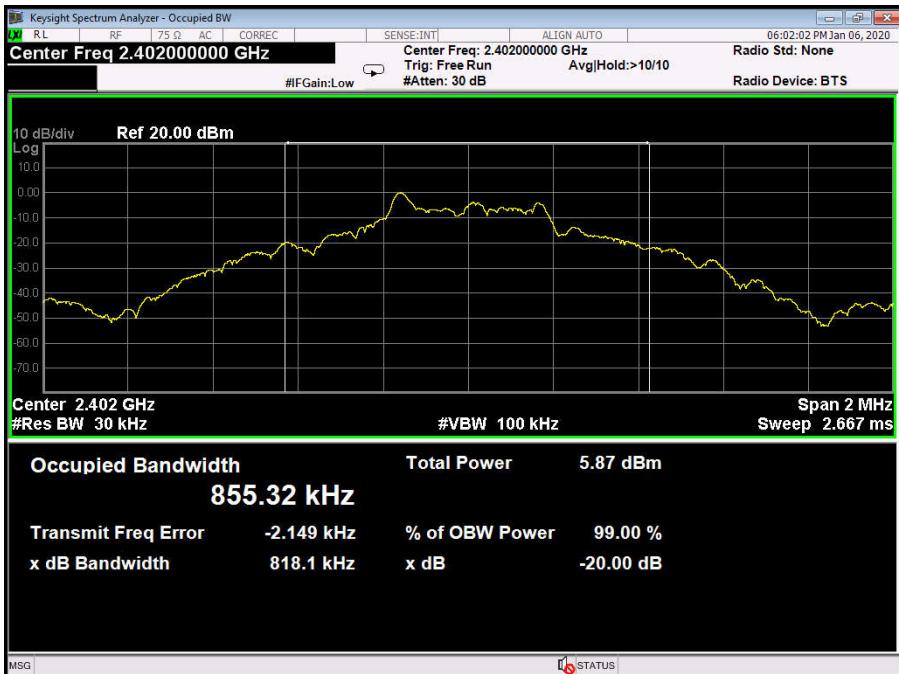
Temperature:	25°C		Relative Humidity:	55%		
Test Voltage:	DC 3.8V					
Test Mode:	Hopping Mode (8-DPSK)					
Test Mode	Channel (MHz)	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
3DH1	2441	0.387	123.84	31.60	400	PASS
3DH3	2441	1.636	261.76	31.60	400	PASS
3DH5	2441	2.875	306.66	31.60	400	PASS

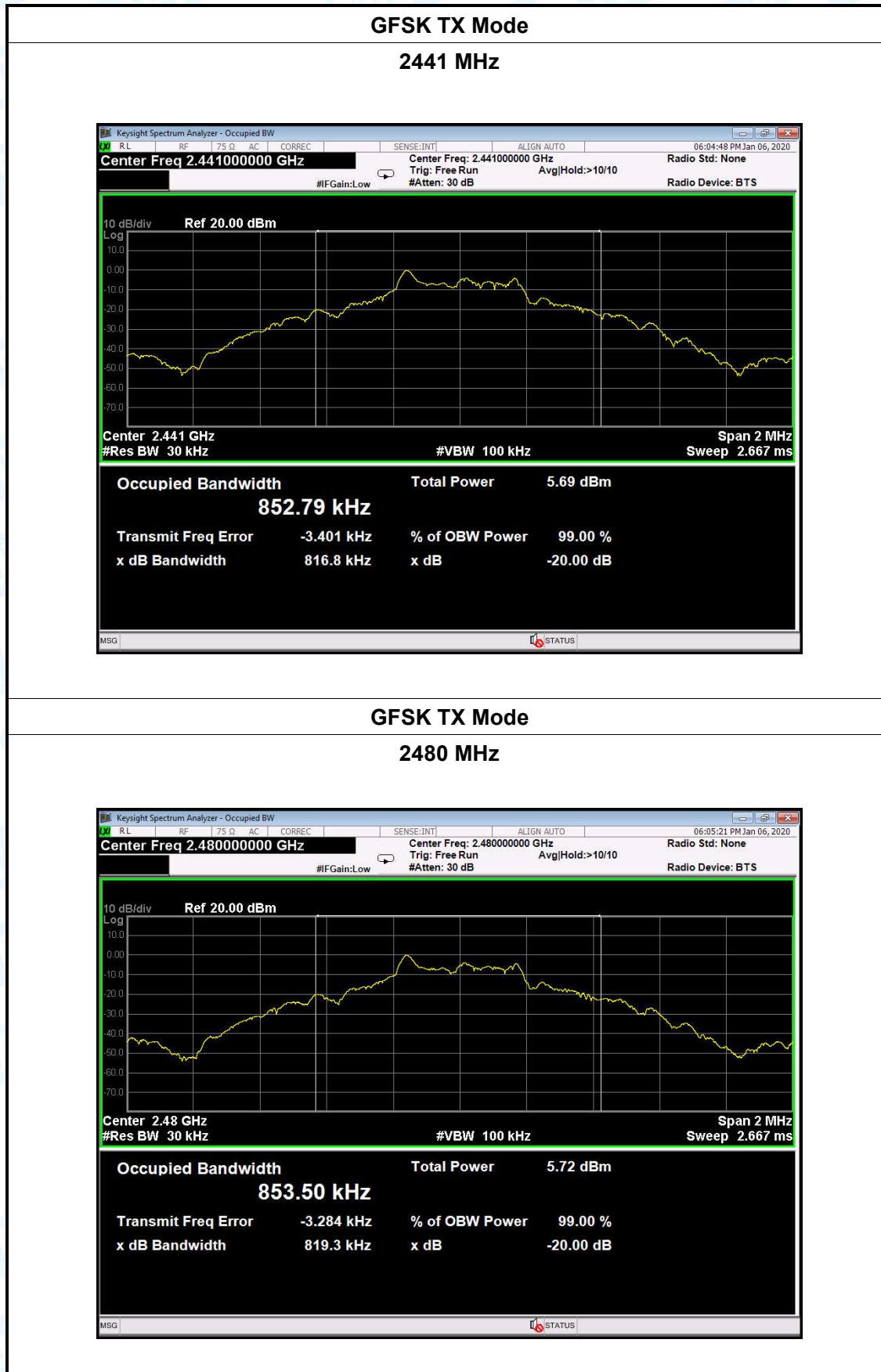
1DH1 Total of Dwell= Pulse Time*(1600/2)*31.6/79
1DH3 Total of Dwell= Pulse Time*(1600/4)*31.6/79
1DH5 Total of Dwell= Pulse Time*(1600/6)*31.6/79

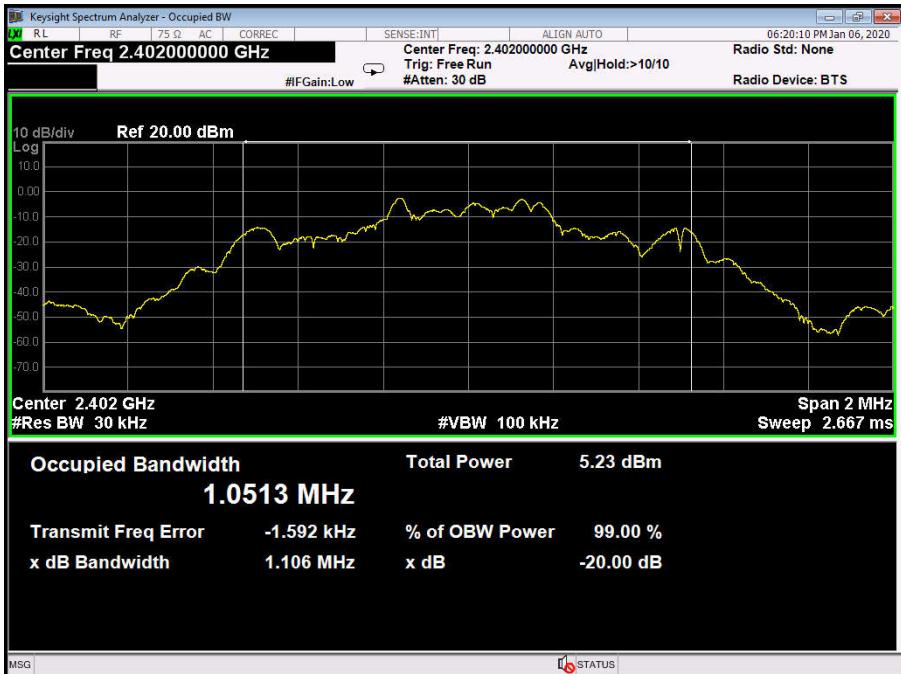
8-DPSK Hopping Mode 3DH1**2441 MHz**

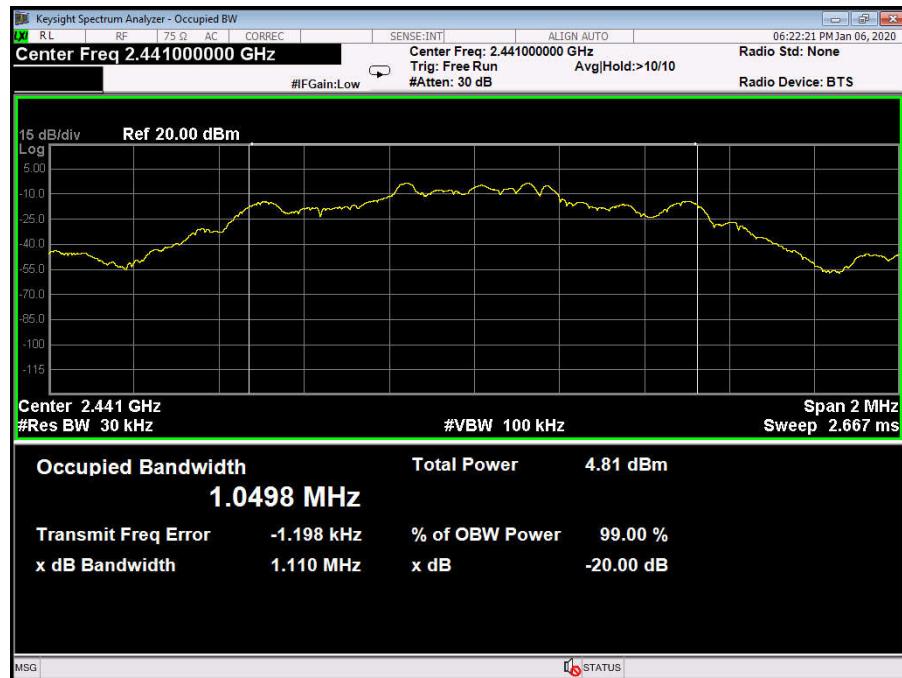
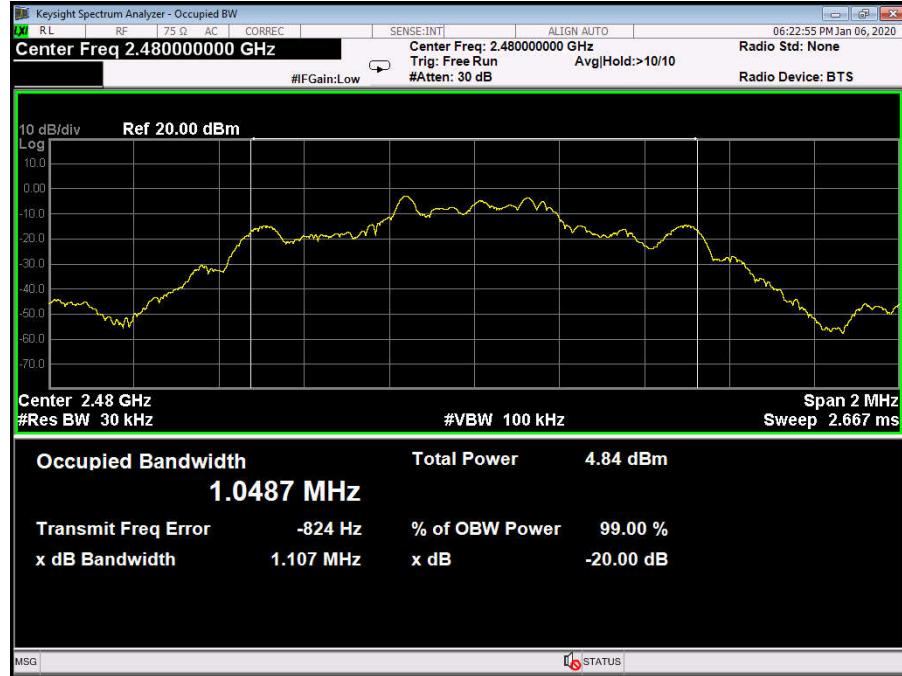
8-DPSK Hopping Mode 3DH3**2441 MHz****8-DPSK Hopping Mode 3DH5****2441 MHz**

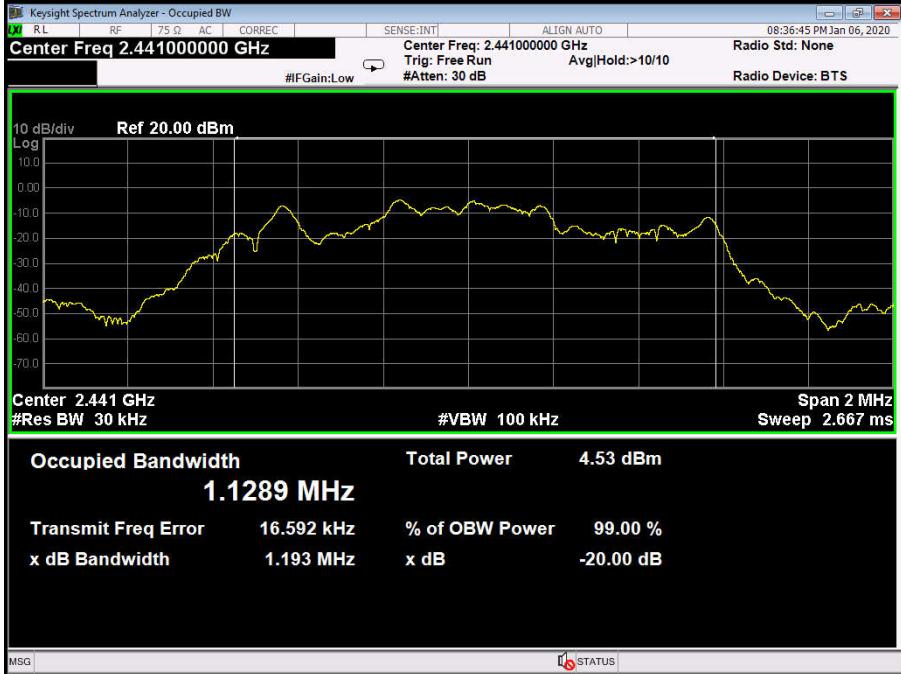
Attachment F-- Channel Separation and Bandwidth Test Data

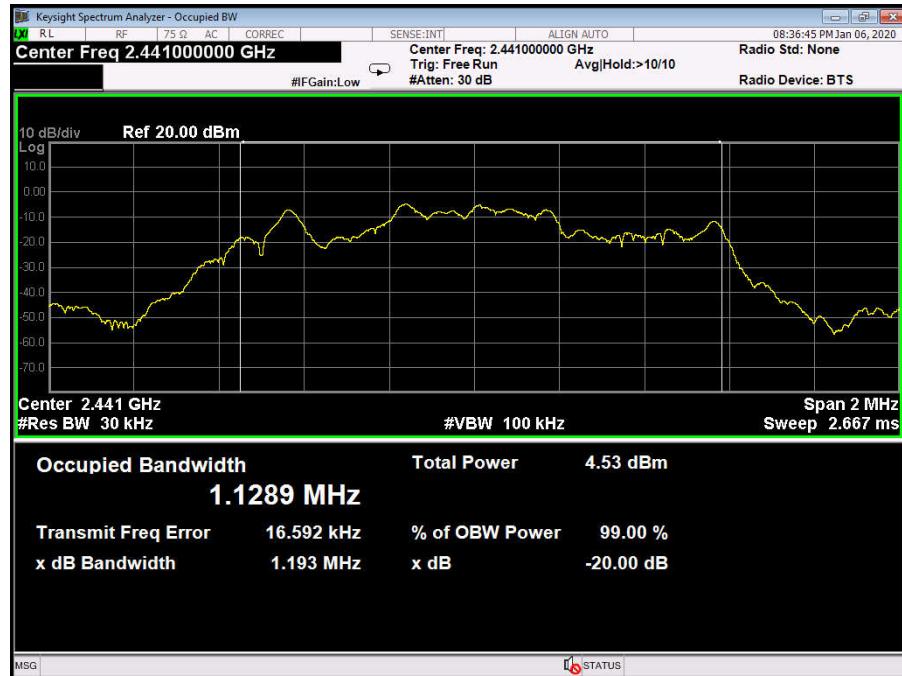
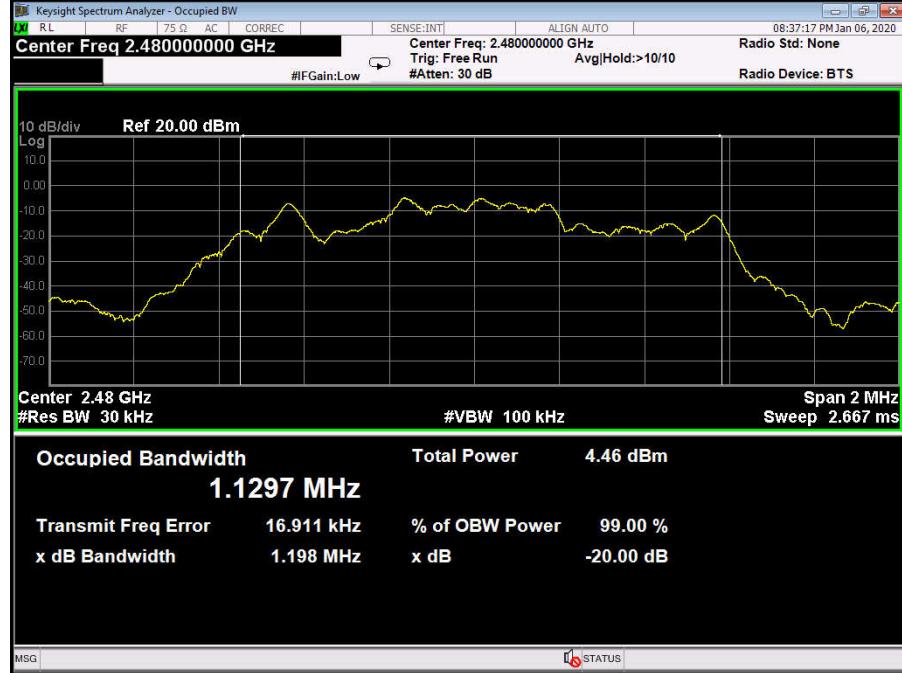
Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	DC 3.8V		
Test Mode:	TX Mode (GFSK)		
Channel frequency (MHz)	99% OBW (kHz)	20dB Bandwidth (kHz)	20dB Bandwidth *2/3 (kHz)
2402	855.32	818.1	
2441	852.79	816.8	
2480	853.50	819.3	
GFSK TX Mode			
2402 MHz			
			



Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	DC 3.8V		
Test Mode:	TX Mode (π/4-DQPSK)		
Channel frequency (MHz)	99% OBW (kHz)	20dB Bandwidth (kHz)	20dB Bandwidth *2/3 (kHz)
2402	1051.3	1106	737.3
2441	1049.8	1110	740.0
2480	1048.7	1107	738.0
π/4-DQPSK TX Mode			
2402 MHz			
			

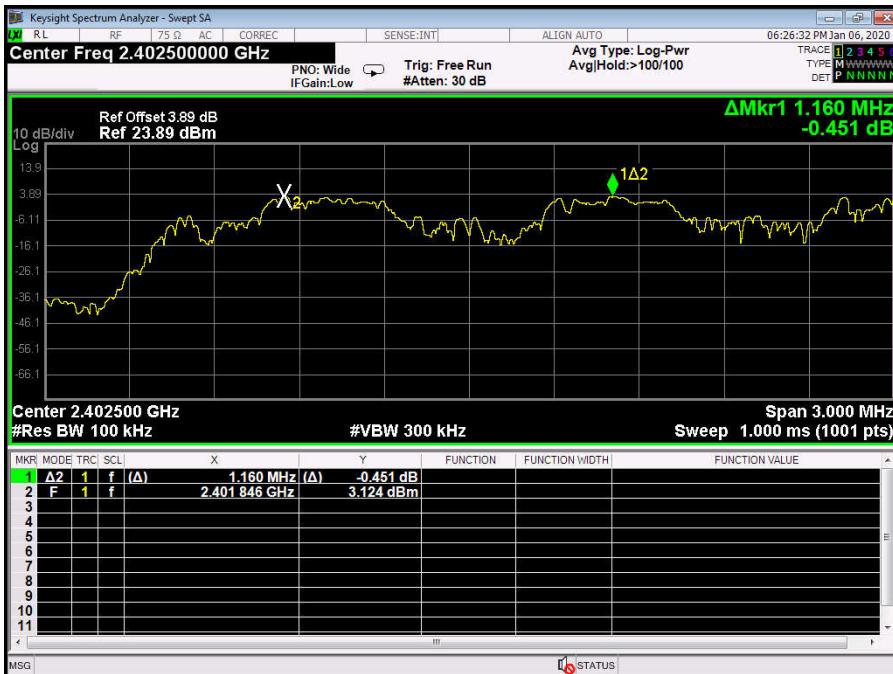
$\pi/4$ -DQPSK TX Mode**2441 MHz** **$\pi/4$ -DQPSK TX Mode****2480 MHz**

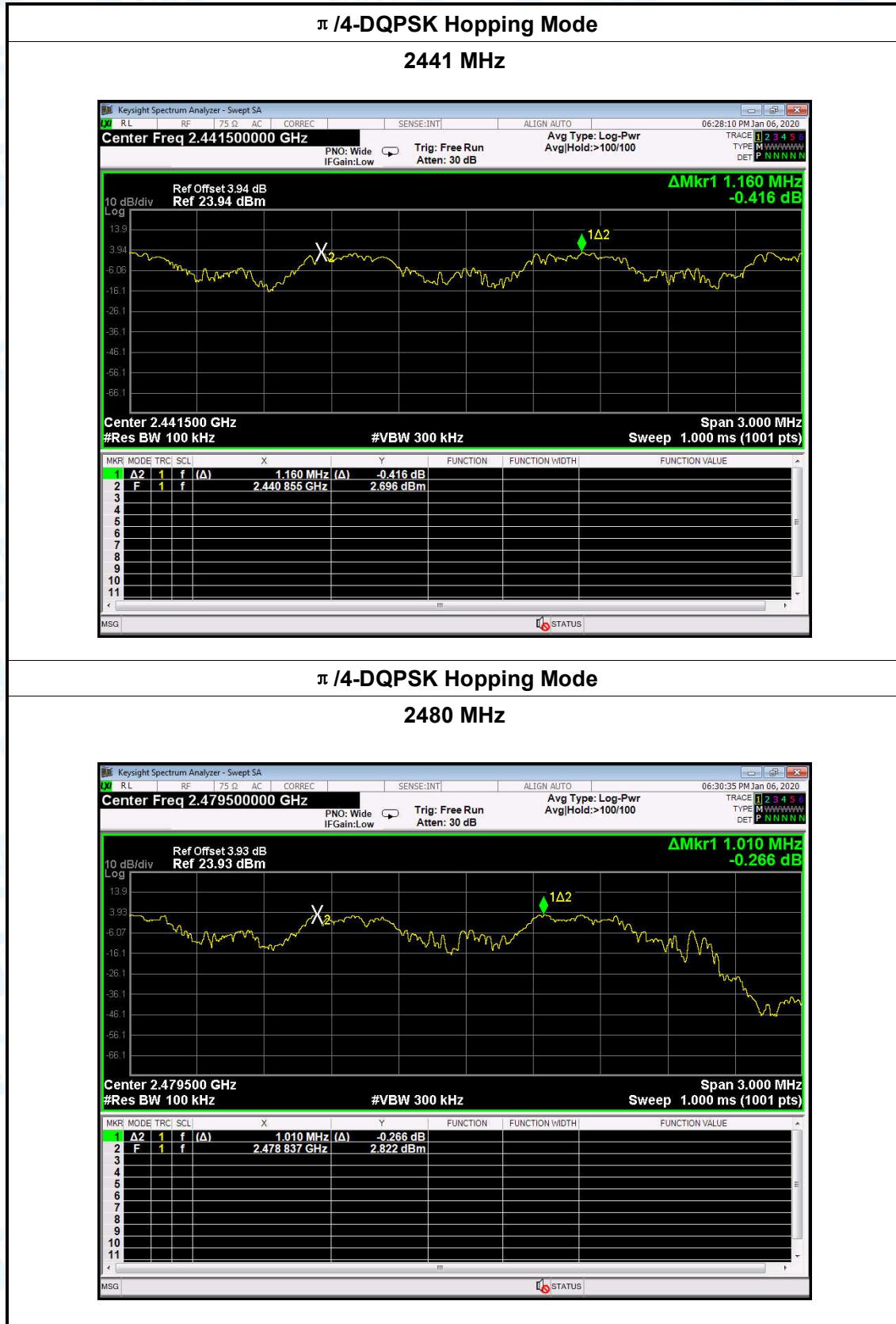
Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	DC 3.8V		
Test Mode:	TX Mode (8-DPSK)		
Channel frequency (MHz)	99% OBW (kHz)	20dB Bandwidth (kHz)	20dB Bandwidth *2/3 (kHz)
2402	1158.9	1193	795.33
2441	1128.9	1193	795.33
2480	1129.7	1198	798.66
8-DPSK TX Mode			
2402 MHz			
			
Occupied Bandwidth 1.1289 MHz			
Transmit Freq Error	16.592 kHz	% of OBW Power	99.00 %
x dB Bandwidth	1.193 MHz	x dB	-20.00 dB

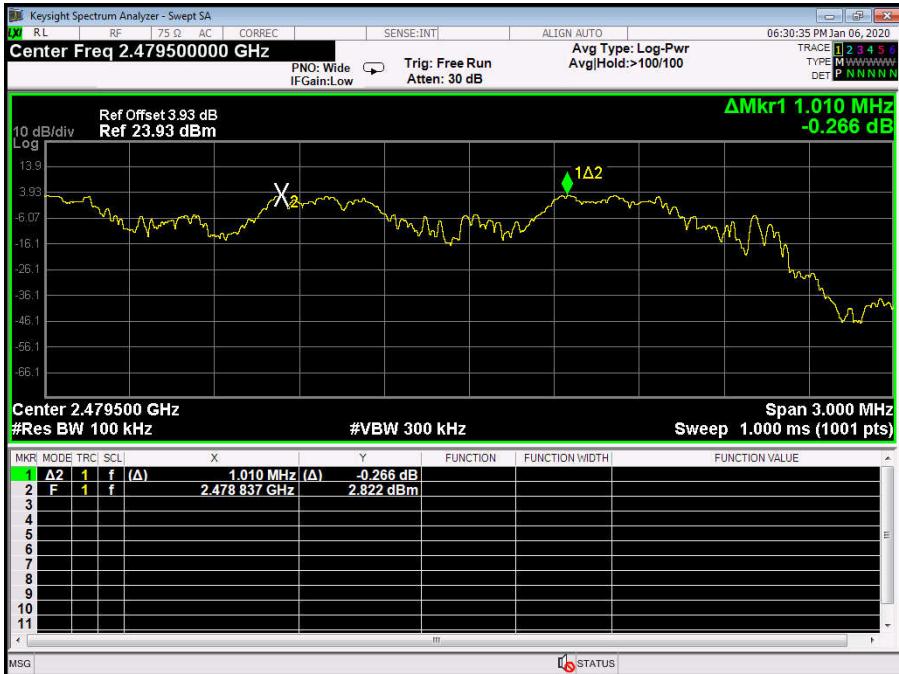
8-DPSK TX Mode**2441 MHz****8-DPSK TX Mode****2480 MHz**

Temperature:	25°C	Relative Humidity:	55%					
Test Voltage:	DC 3.8V							
Test Mode:	Hopping Mode (GFSK)							
Channel frequency (MHz)	Separation Read Value (kHz)		Separation Limit (kHz)					
2402	990		818.1					
2441	990		816.8					
2480	920		819.3					
GFSK Hopping Mode								
2402 MHz								
								
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ2	1	f	(Δ)	990 kHz	(Δ)	-0.152 dB	
2	F	1	f		2.401 840 GHz		3.906 dBm	
3								
4								
5								
6								
7								
8								
9								
10								
11								

GFSK Hopping Mode**2441 MHz****GFSK Hopping Mode****2480 MHz**

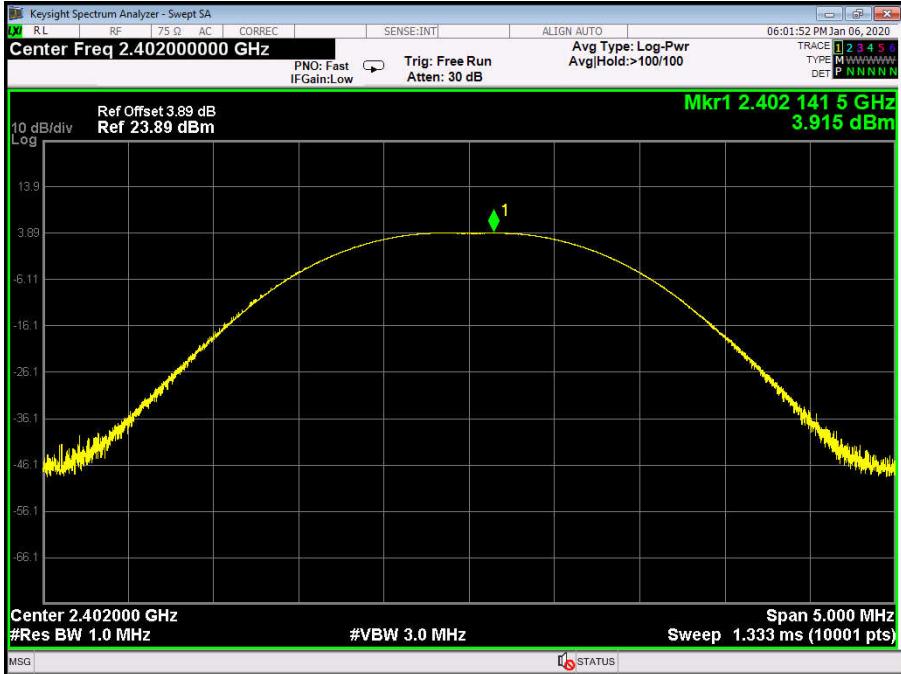
Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	DC 3.8V		
Test Mode:	Hopping Mode ($\pi/4$ -DQPSK)		
Channel frequency (MHz)	Separation Read Value (kHz)	Separation Limit (kHz)	
2402	870	737.3	
2441	990	740.0	
2480	1340	738.0	
$\pi/4$-DQPSK Hopping Mode			
2402 MHz			
			

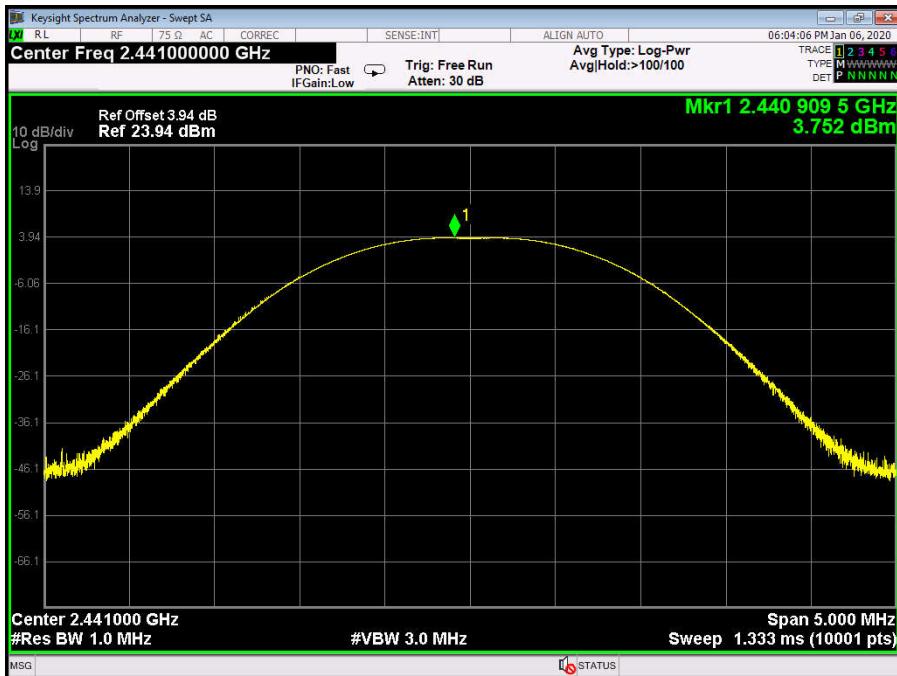
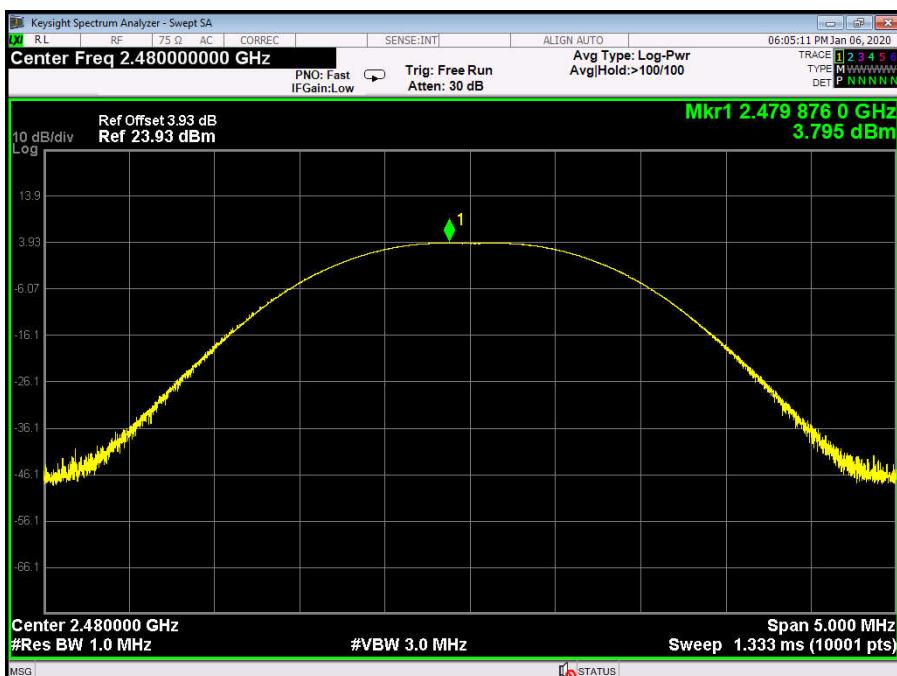


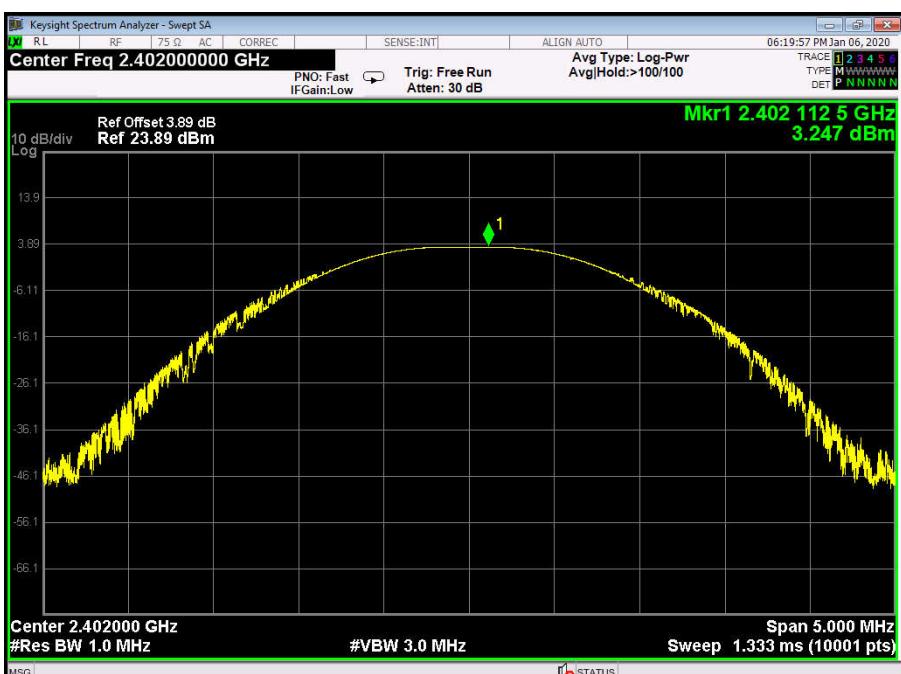
Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	DC 3.8V		
Test Mode:	Hopping Mode (8-DPSK)		
Channel frequency (MHz)	Separation Read Value (kHz)	Separation Limit (kHz)	
2402	850	795.33	
2441	890	795.33	
2480	980	798.66	
8-DPSK Hopping Mode			
2402 MHz			
			

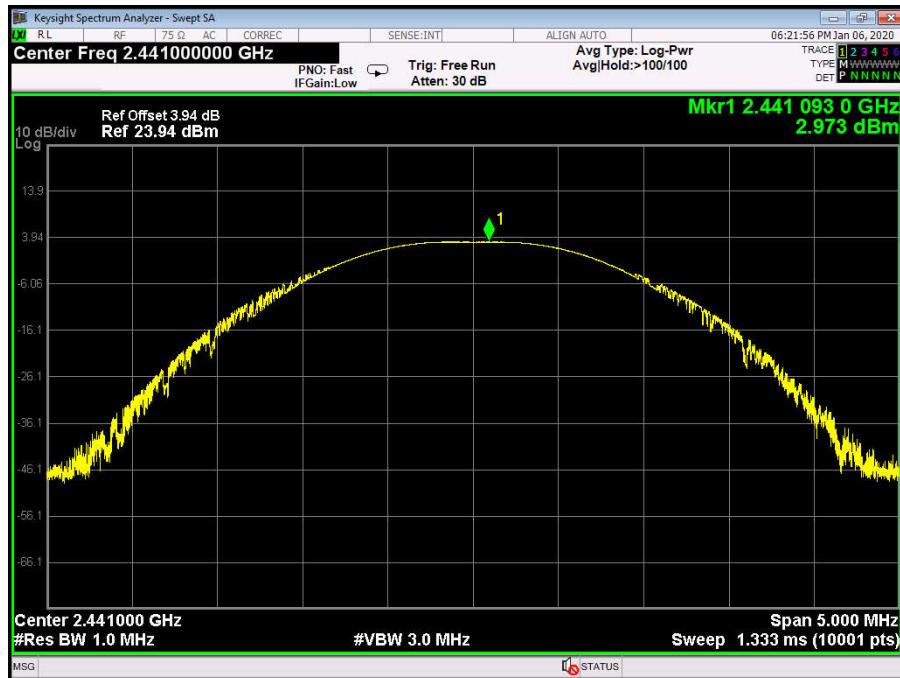
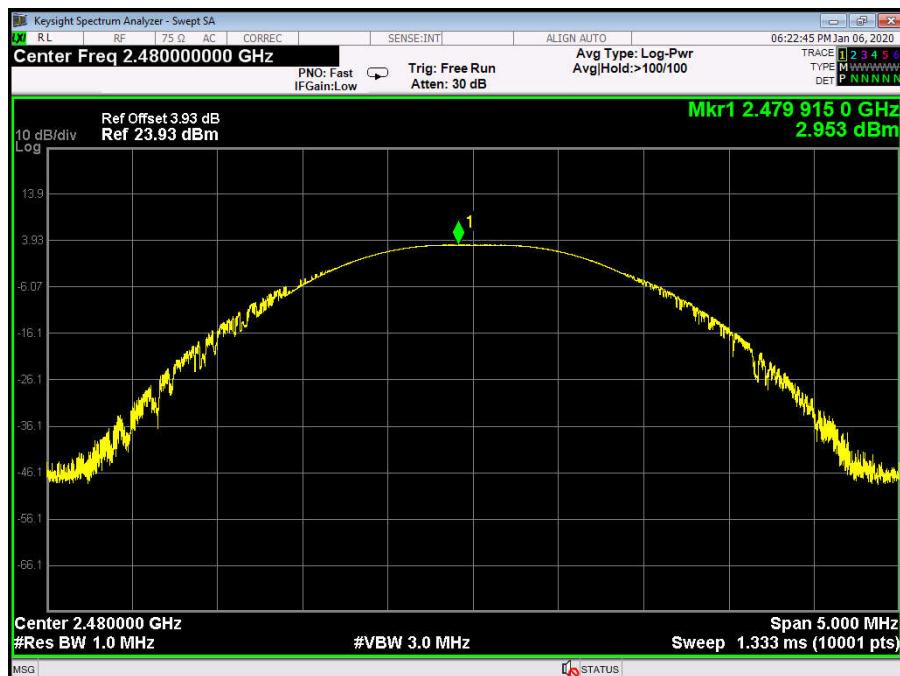
8-DPSK Hopping Mode**2441 MHz****8-DPSK Hopping Mode****2480 MHz**

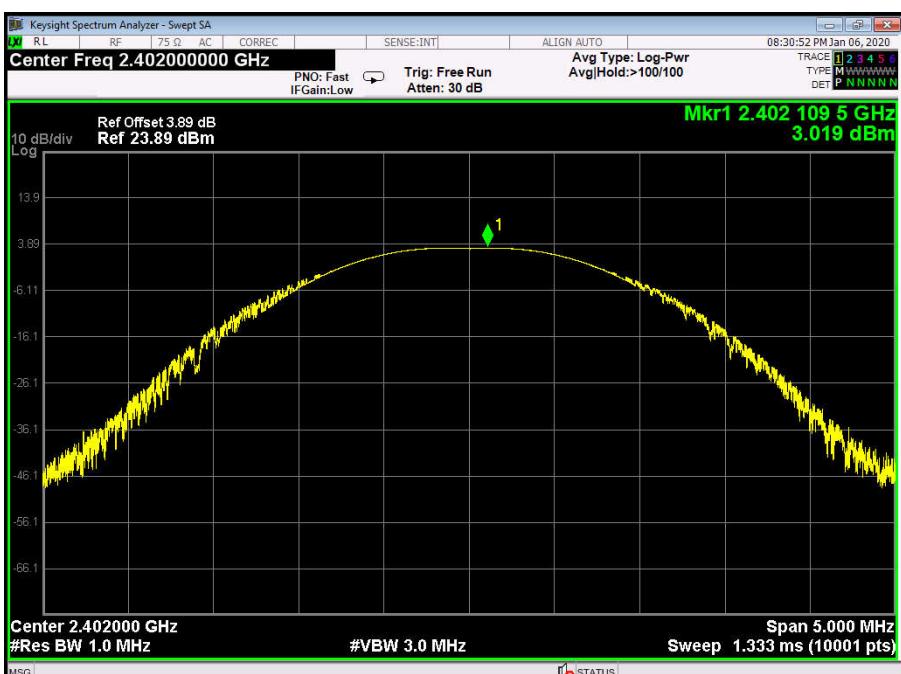
Attachment G-- Peak Output Power Test Data

Temperature:	25°C	Relative Humidity:	55%		
Test Voltage:	DC 3.8V				
Test Mode:	TX Mode (GFSK)				
Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)			
2402	3.915	30			
2441	3.752				
2480	3.795				
GFSK TX Mode					
2402 MHz					
					

GFSK TX Mode**2441 MHz****GFSK TX Mode****2480 MHz**

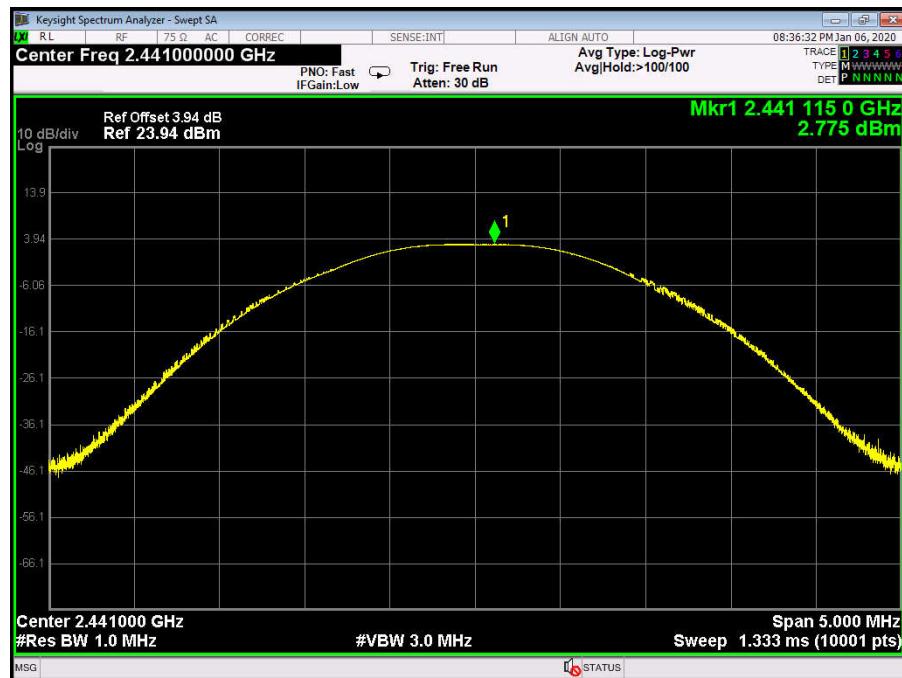
Temperature:	25°C	Relative Humidity:	55%		
Test Voltage:	DC 3.8V				
Test Mode:	TX Mode ($\pi/4$ -DQPSK)				
Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)			
2402	3.247	30			
2441	2.973				
2480	2.953				
$\pi/4$-DQPSK TX Mode					
2402 MHz					
					

$\pi/4$ -DQPSK TX Mode**2441 MHz** **$\pi/4$ -DQPSK TX Mode****2480 MHz**

Temperature:	25°C	Relative Humidity:	55%		
Test Voltage:	DC 3.8V				
Test Mode:	TX Mode (8-DPSK)				
Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)			
2402	3.019	30			
2441	2.775				
2480	2.728				
8-DPSK TX Mode					
2402 MHz					
					

8-DPSK TX Mode

2441 MHz



8-DPSK TX Mode

2480 MHz



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