

Attachment E-- Average Time of Occupancy Test Data

Temperature:		25℃		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	

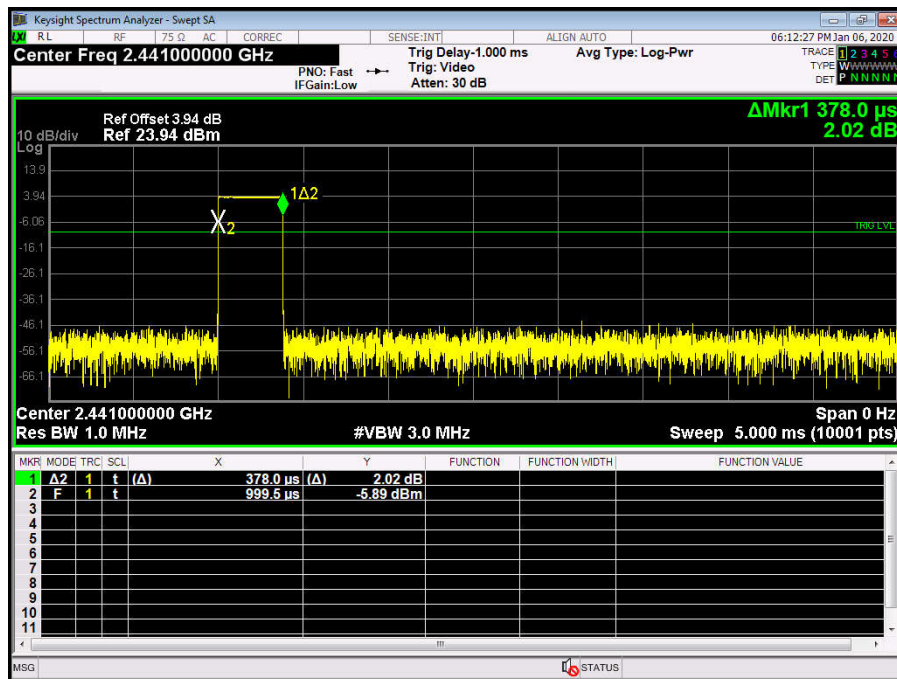
1DH1 Total of Dwell= Pulse Time*(1600/2)*31.6/79

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

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

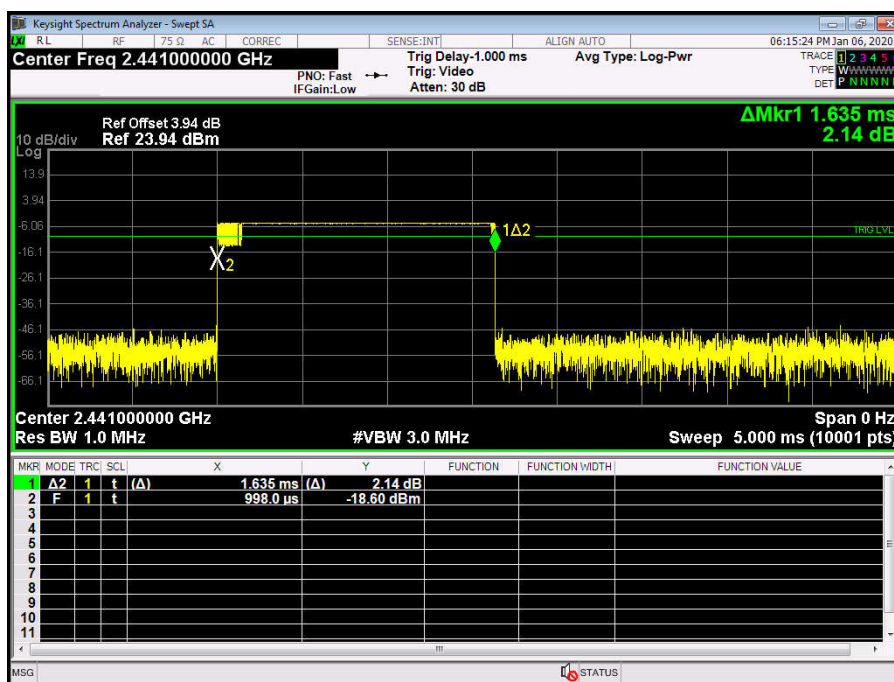
GFSK Hopping Mode 1DH1

2441 MHz



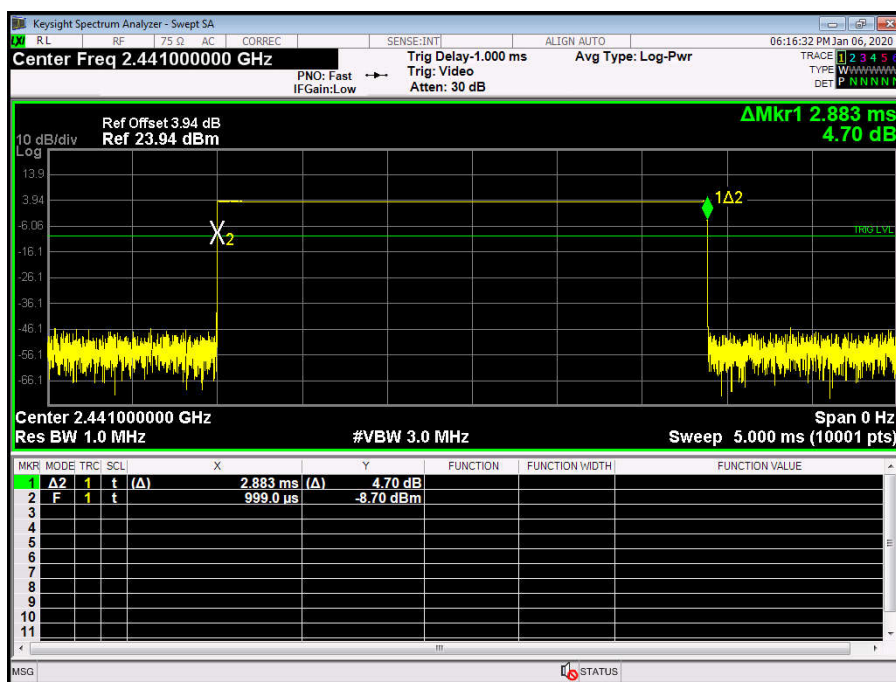
GFSK Hopping Mode 1DH3

2441 MHz



GFSK Hopping Mode 1DH5

2441 MHz



Temperature:		25℃		Relative Humidity:		55%
Test Voltage:		DC 3.8V				
Test Mode:		Hopping Mode (π /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						
π /4-DQPSK Hopping Mode 2DH1						
2441 MHz						

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Ref Offset 3 dB
Ref 23.00 dBm

10 dB/div
Log

ΔMkr1 378.0 μs
-0.70 dB

Center 2.441000000 GHz
Res BW 1.0 MHz

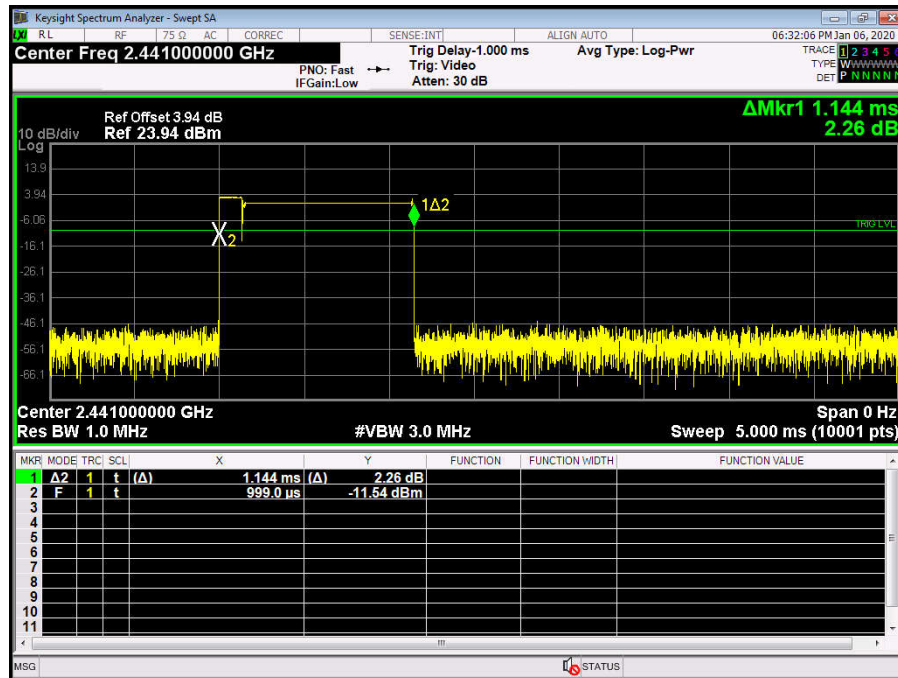
#VBW 3.0 MHz

Sweep 5.000 ms (10001 pts)

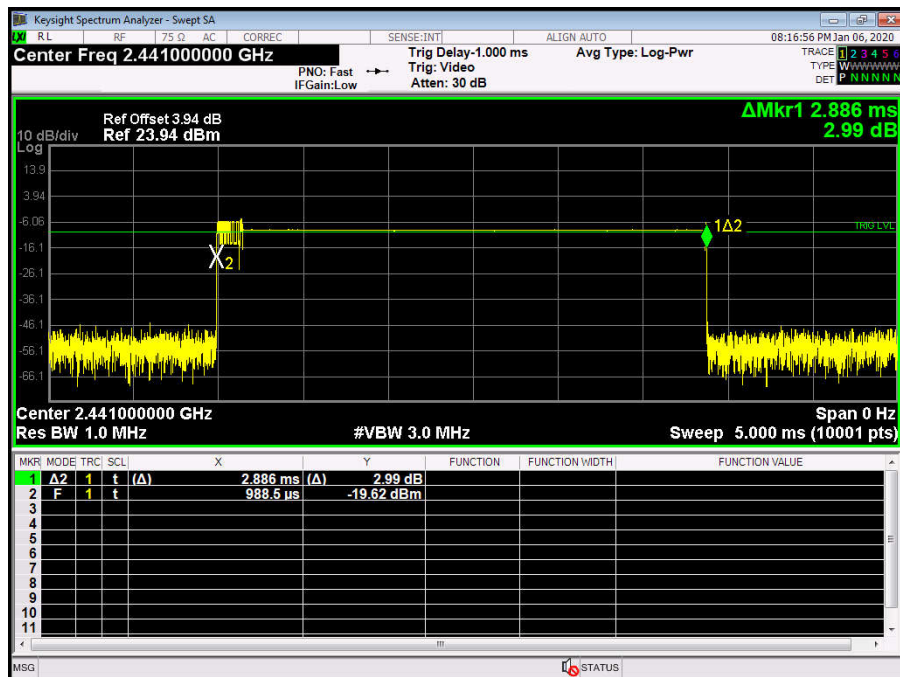
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ2	↑	t	(Δ)	378.0 μs	(Δ)	-0.70 dB	
2	F	↑	t		864.0 μs		-16.53 dBm	
3								
4								
5								
6								
7								
8								
9								
10								
11								

$\pi/4$ -DQPSK Hopping Mode 2DH3

2441 MHz

 $\pi/4$ -DQPSK Hopping Mode 2DH5

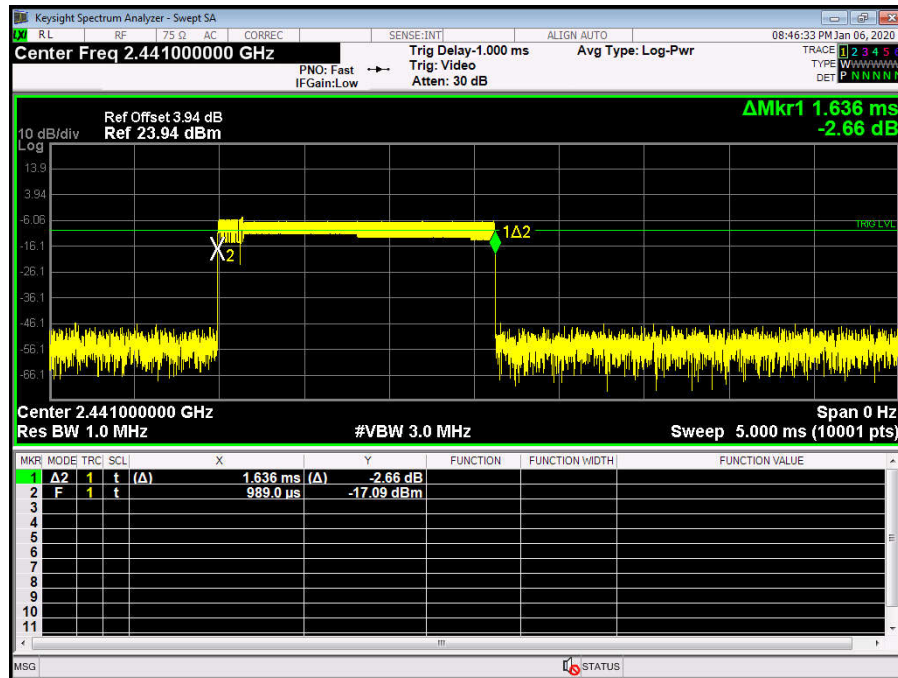
2441 MHz



TB-RF-074-1.0

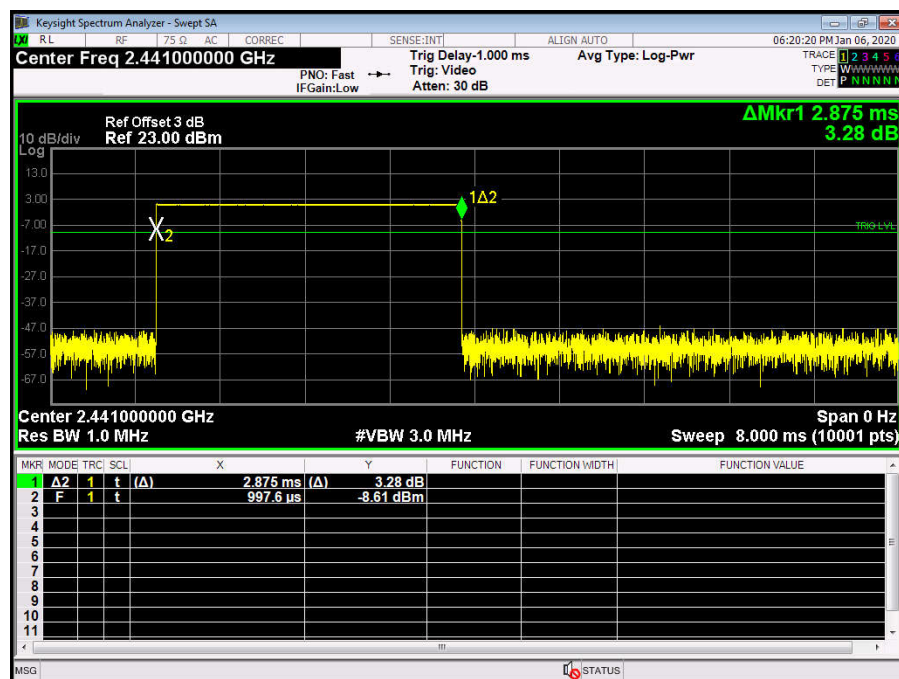
8-DPSK Hopping Mode 3DH3

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			

Keysight Spectrum Analyzer - Occupied BW

Center Freq: 2.402000000 GHz
 Trig: Free Run
 #Atten: 30 dB
 Avg/Hold: >10/10
 Radio Std: None
 Radio Device: BTS

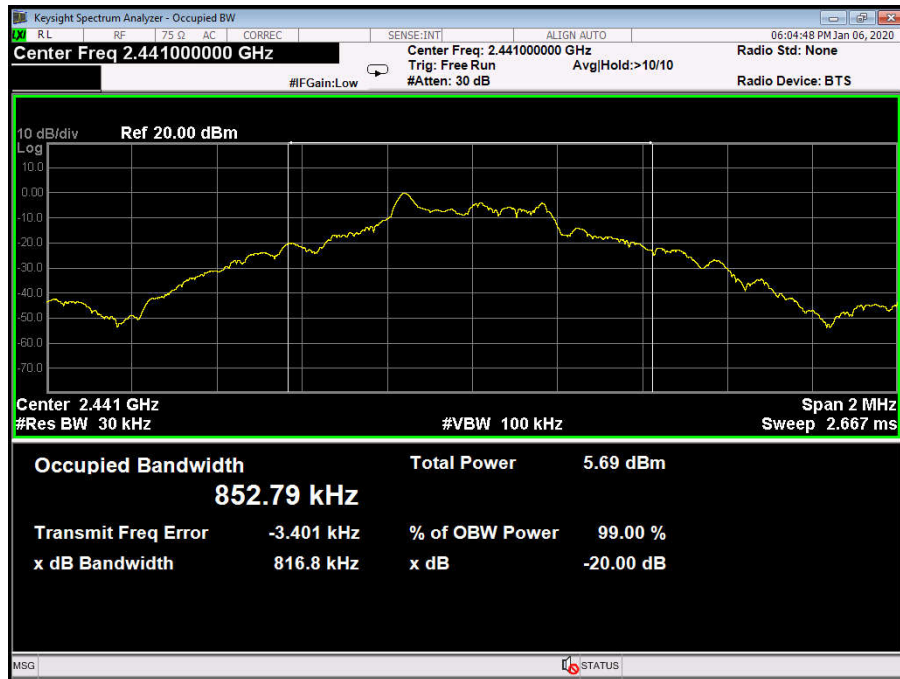
10 dB/div Ref 20.00 dBm

Center 2.402 GHz
 #Res BW 30 kHz
 #VBW 100 kHz
 Span 2 MHz
 Sweep 2.667 ms

Occupied Bandwidth	Total Power	5.87 dBm
855.32 kHz		
Transmit Freq Error	% of OBW Power	99.00 %
-2.149 kHz	x dB	-20.00 dB
x dB Bandwidth		
818.1 kHz		

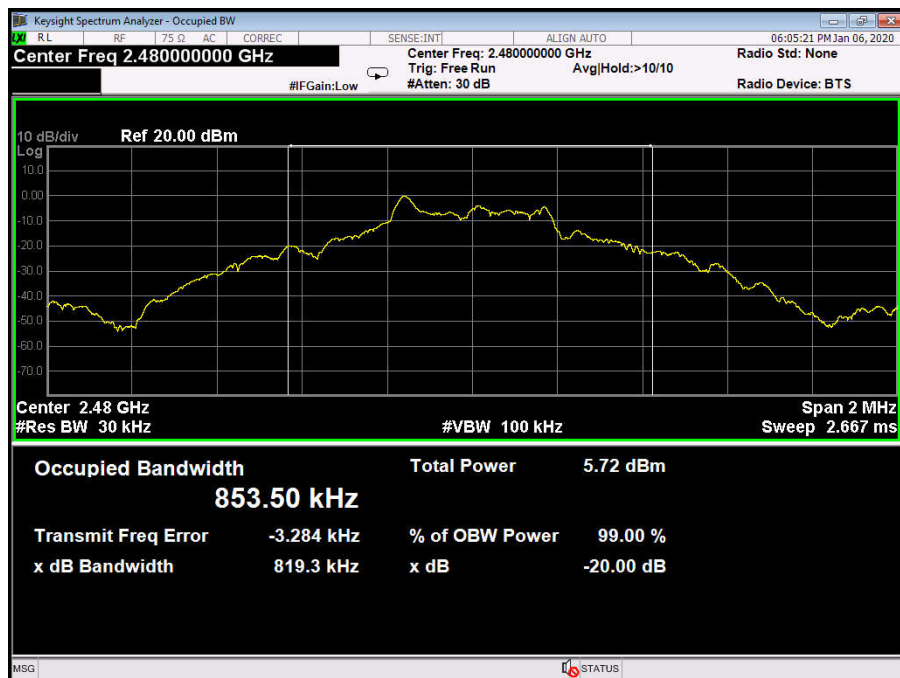
GFSK TX Mode

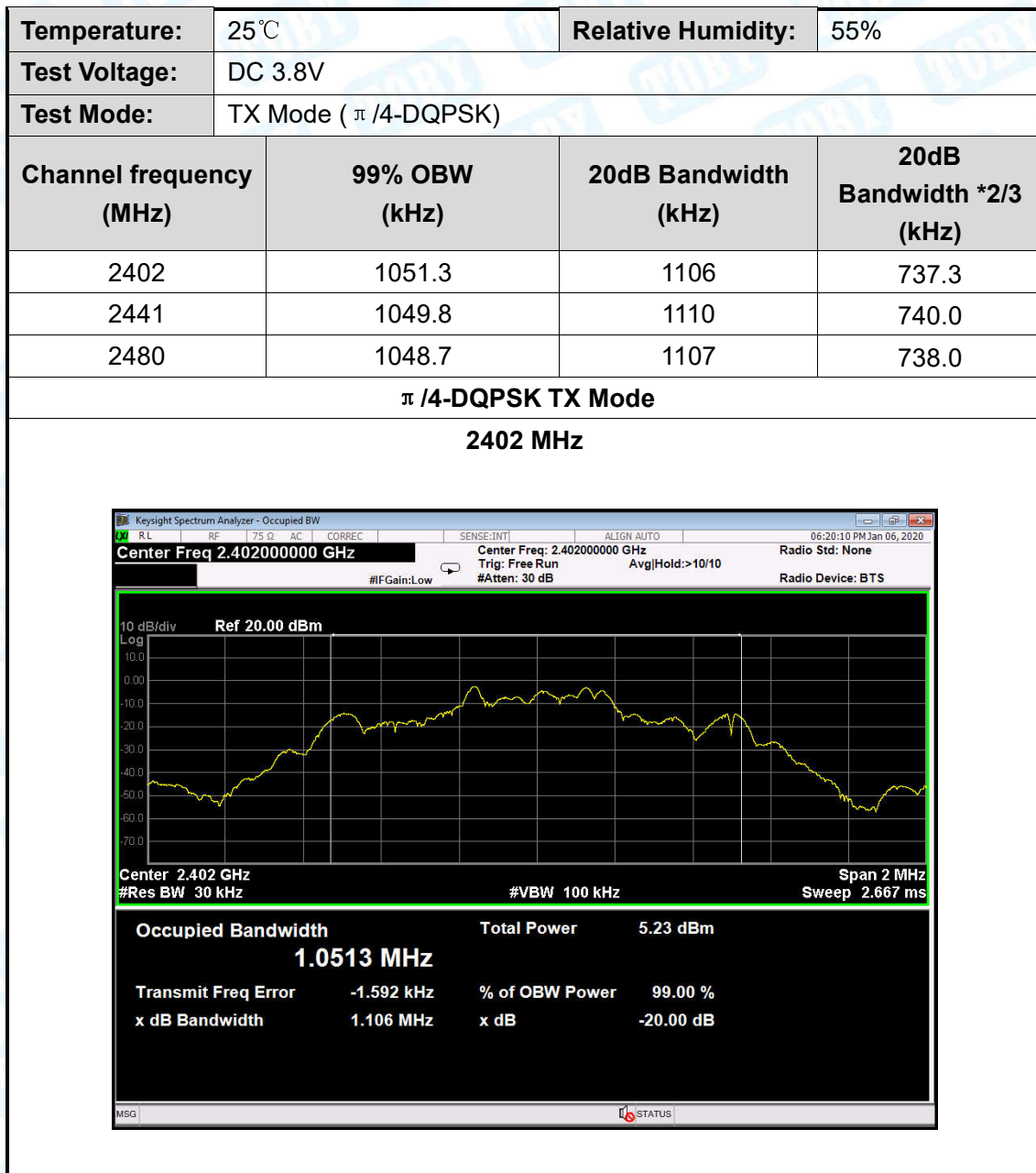
2441 MHz



GFSK TX Mode

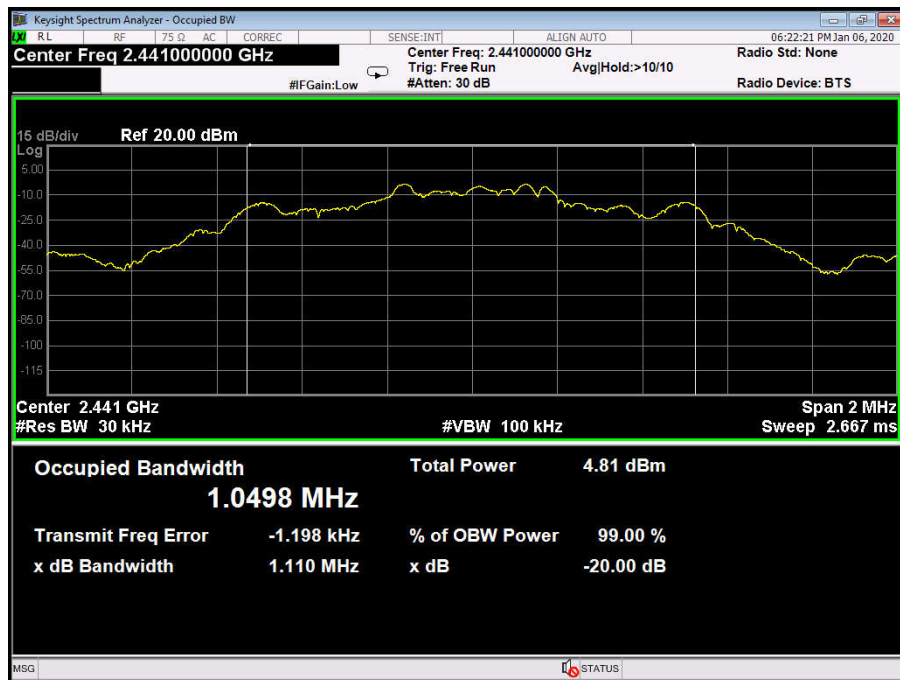
2480 MHz



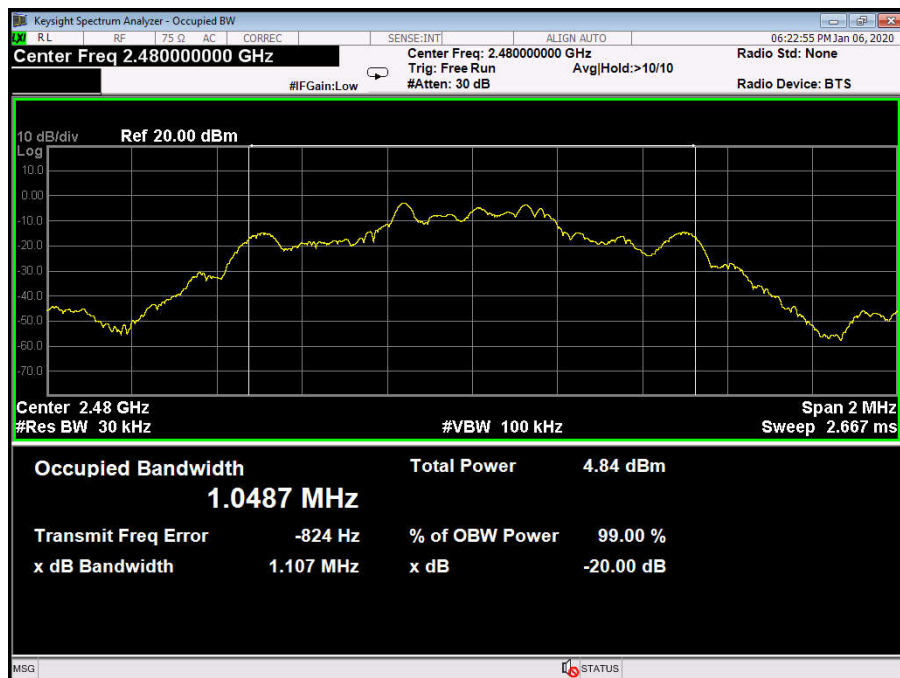


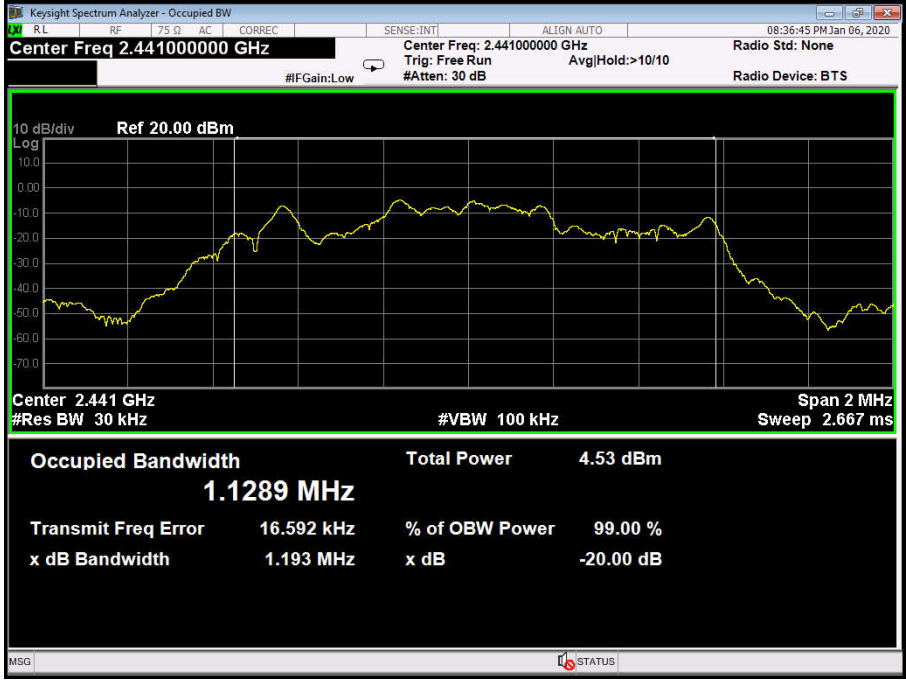
π /4-DQPSK TX Mode

2441 MHz

 π /4-DQPSK TX Mode

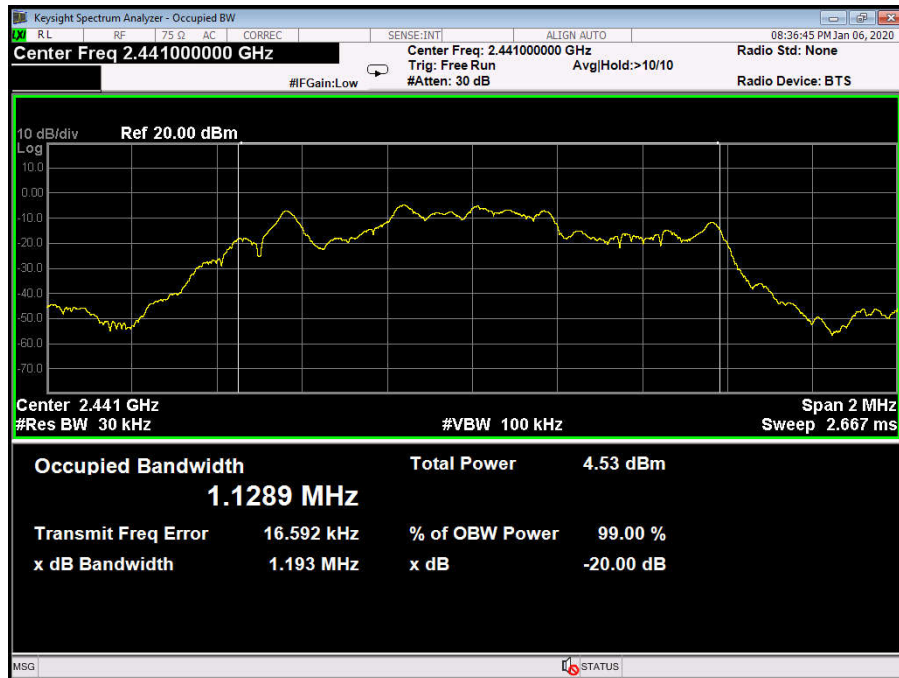
2480 MHz



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			
			

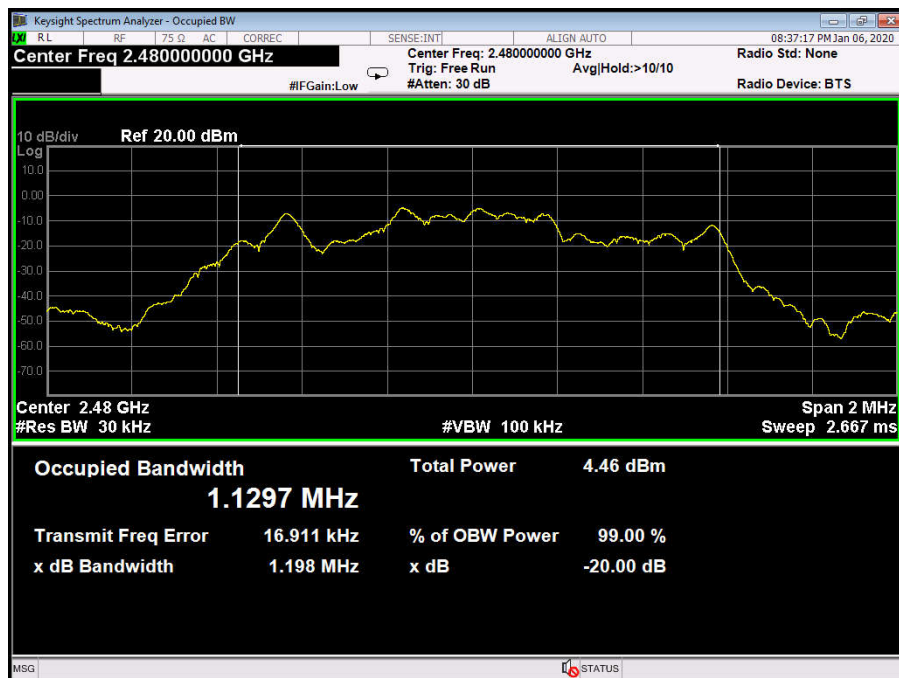
8-DPSK TX Mode

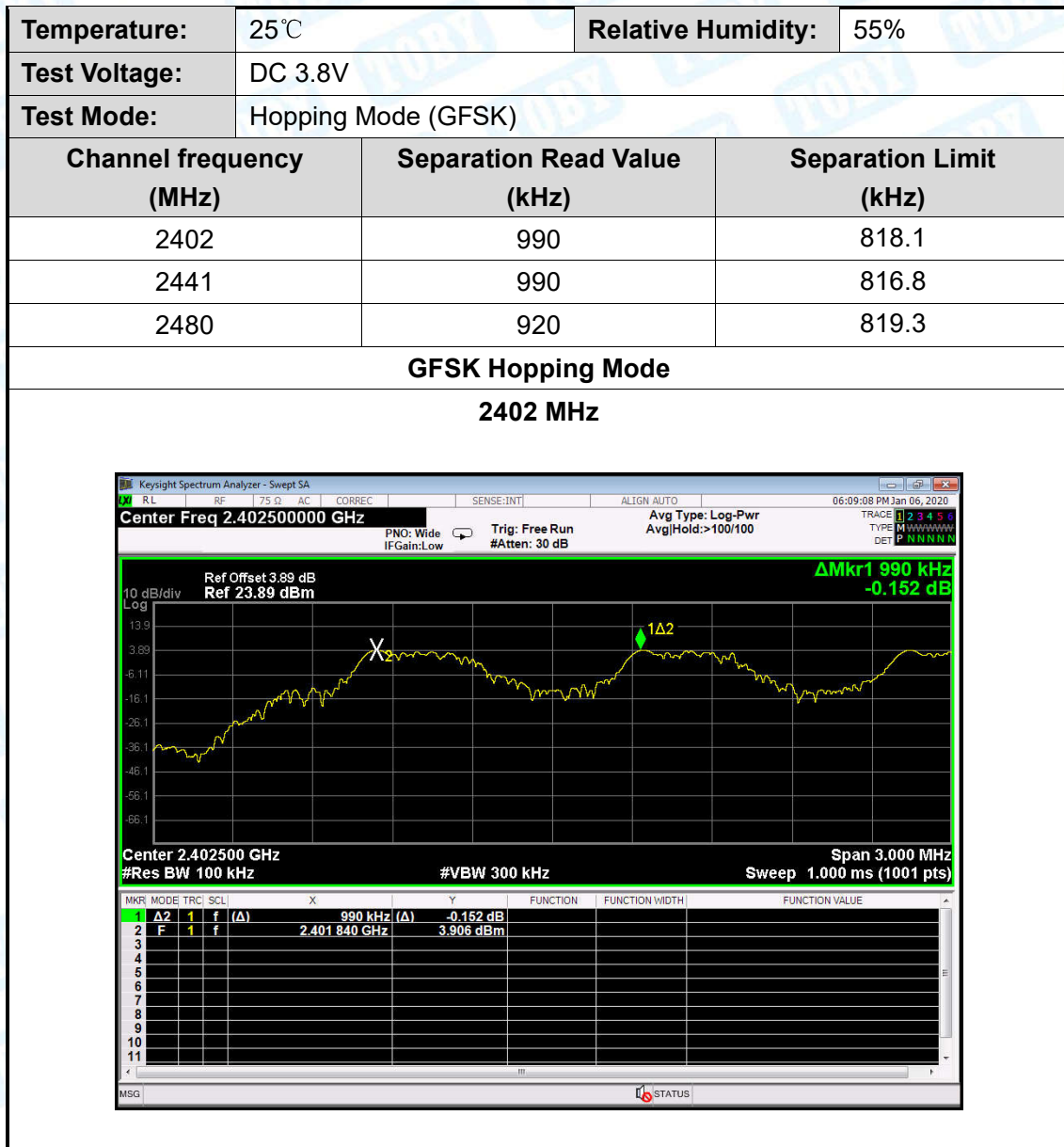
2441 MHz



8-DPSK TX Mode

2480 MHz





GFSK Hopping Mode

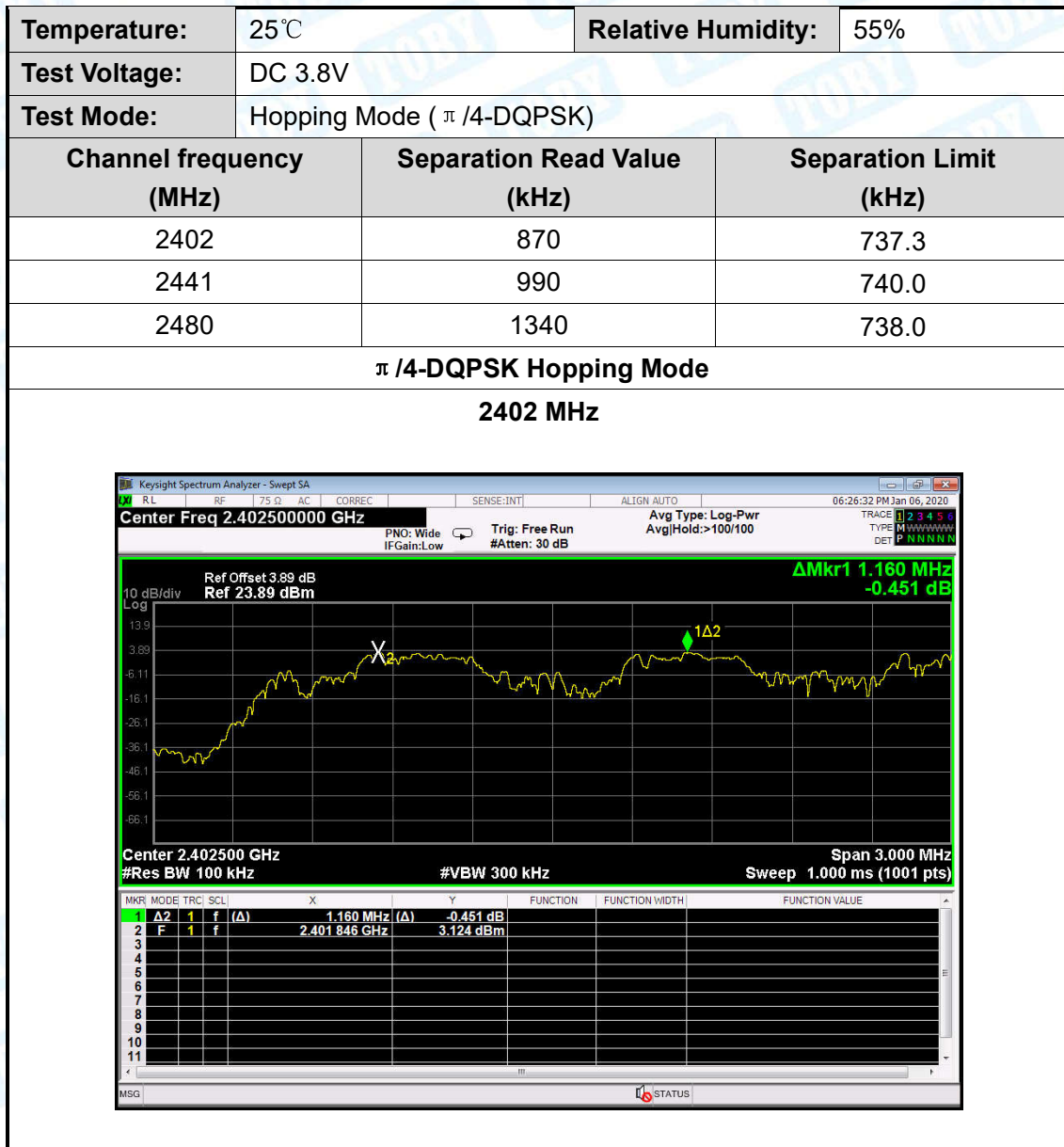
2441 MHz



GFSK Hopping Mode

2480 MHz





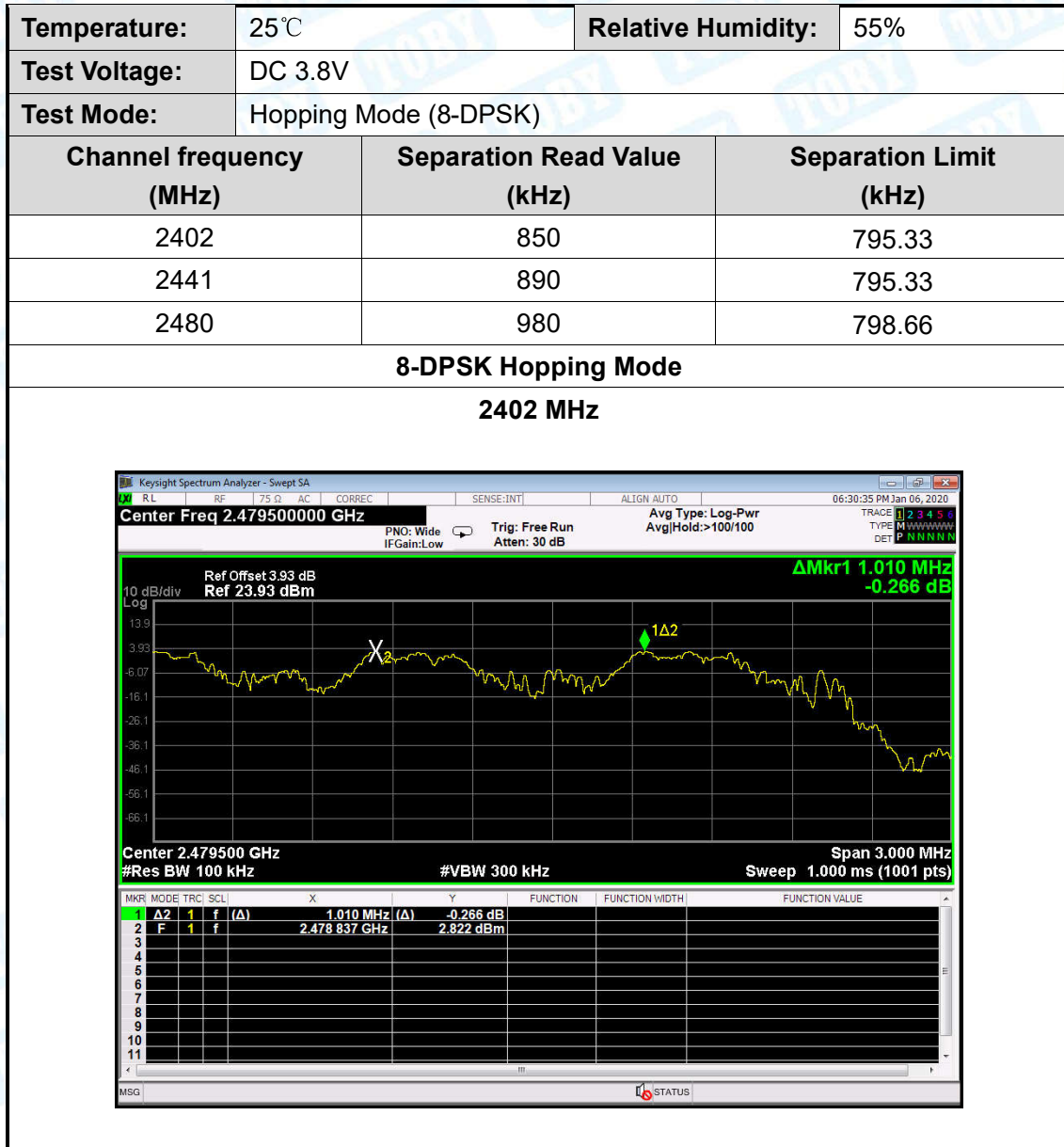
π /4-DQPSK Hopping Mode

2441 MHz

 π /4-DQPSK Hopping Mode

2480 MHz





8-DPSK Hopping Mode

2441 MHz



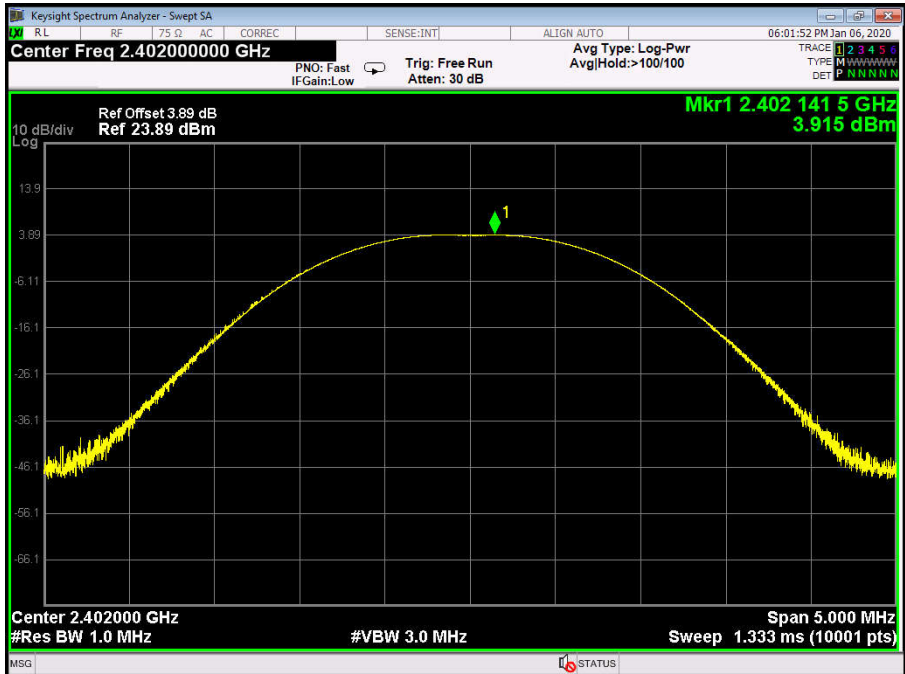
8-DPSK Hopping Mode

2480 MHz



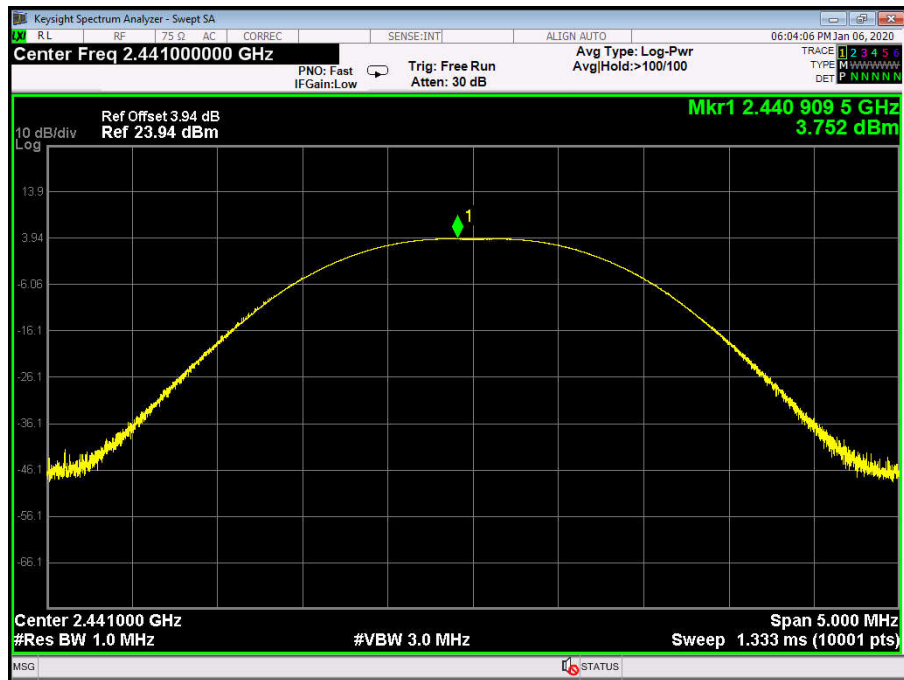
Attachment G-- Peak Output Power Test Data

Temperature:	25℃	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			



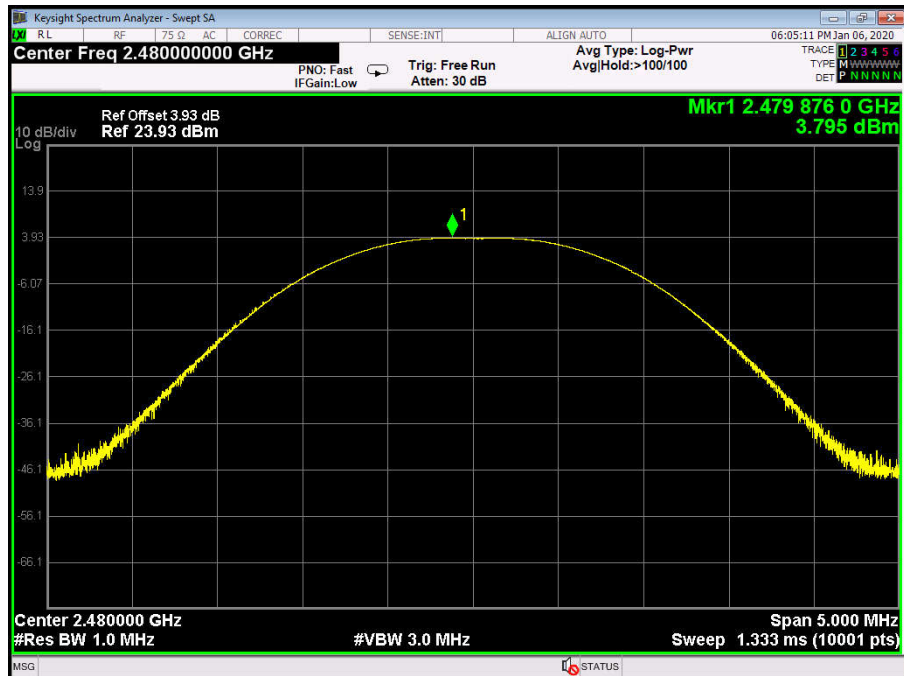
GFSK TX Mode

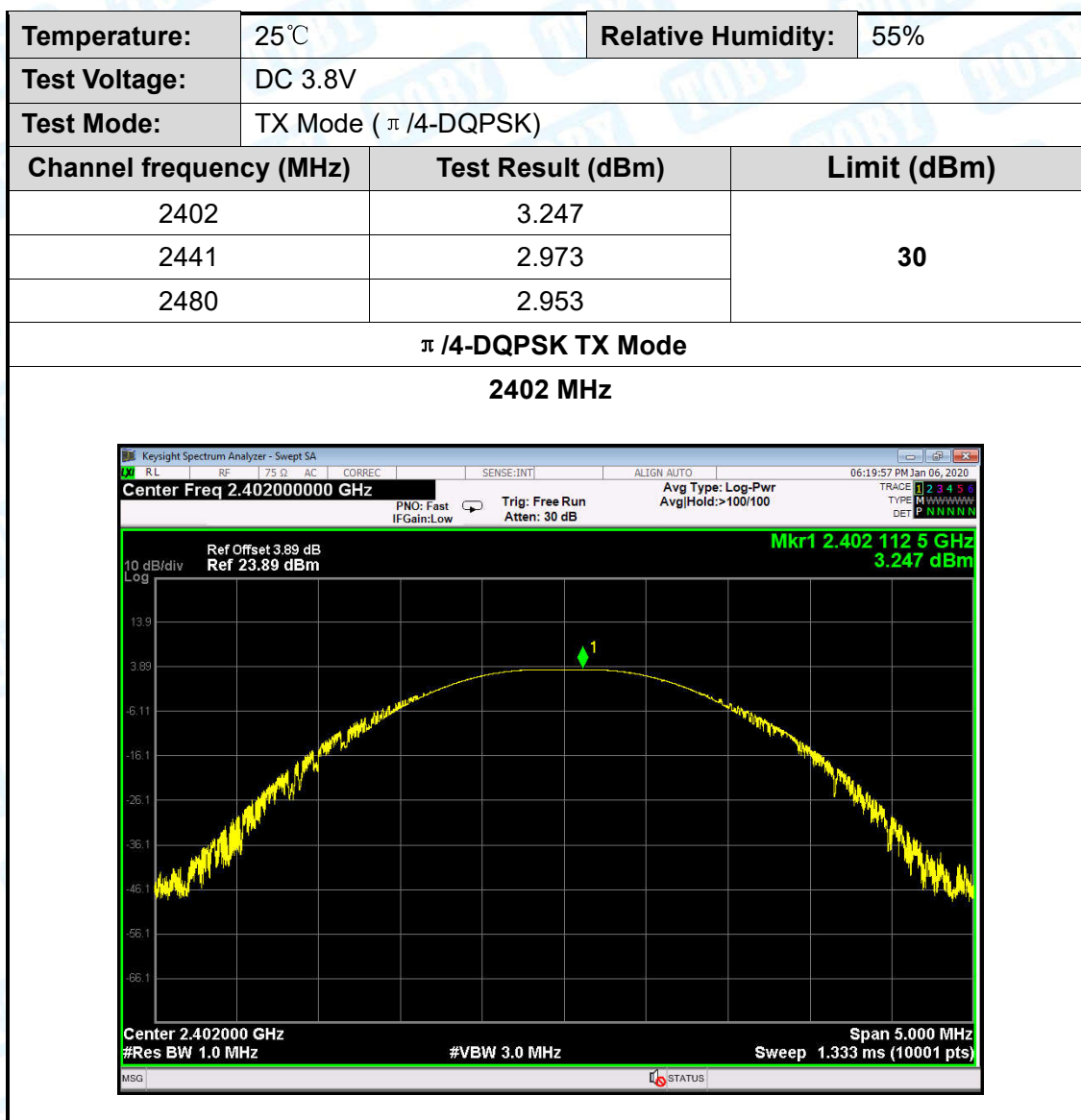
2441 MHz



GFSK TX Mode

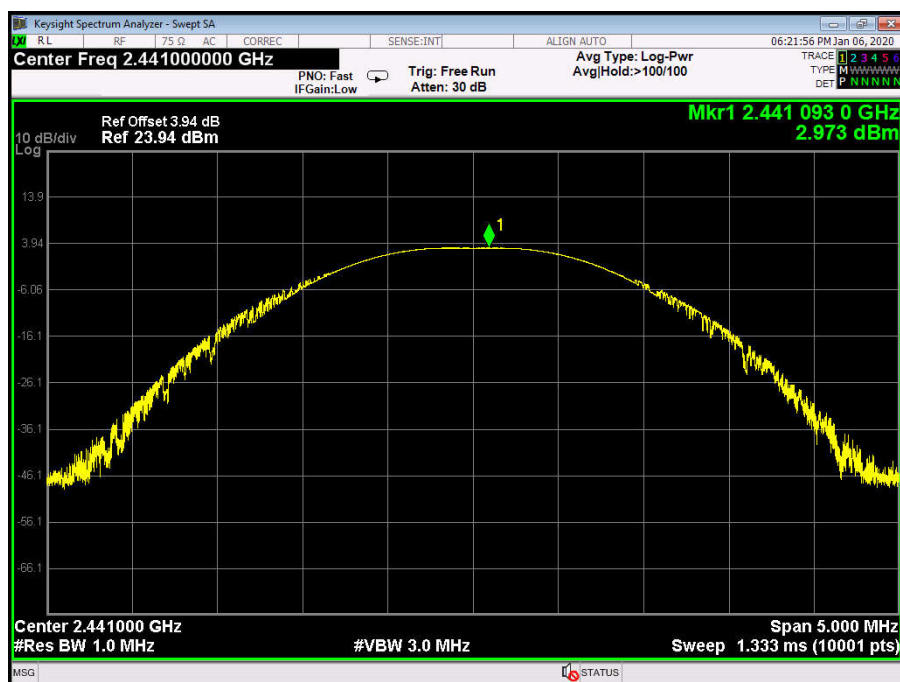
2480 MHz



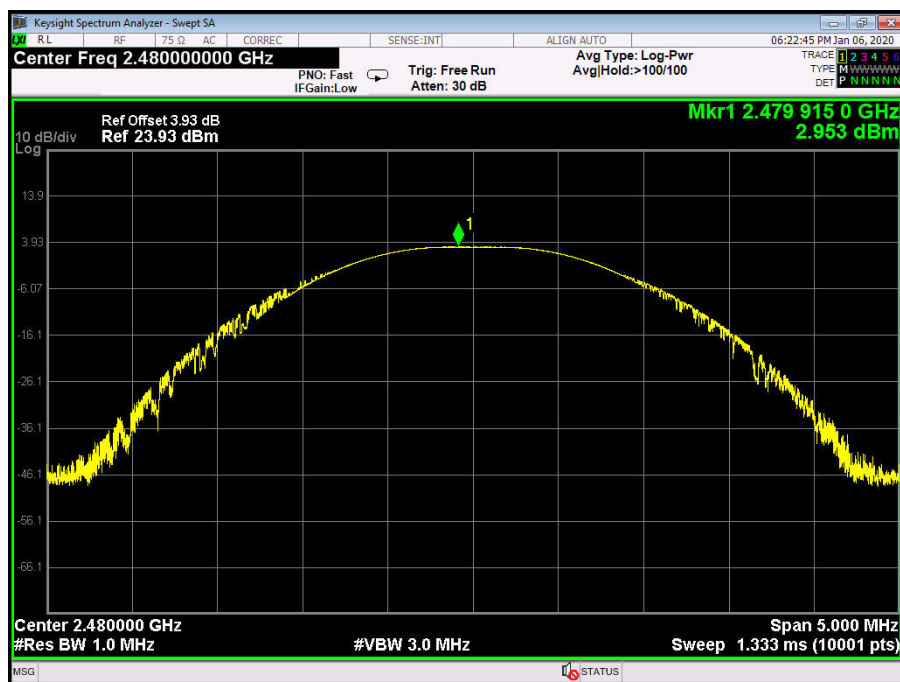


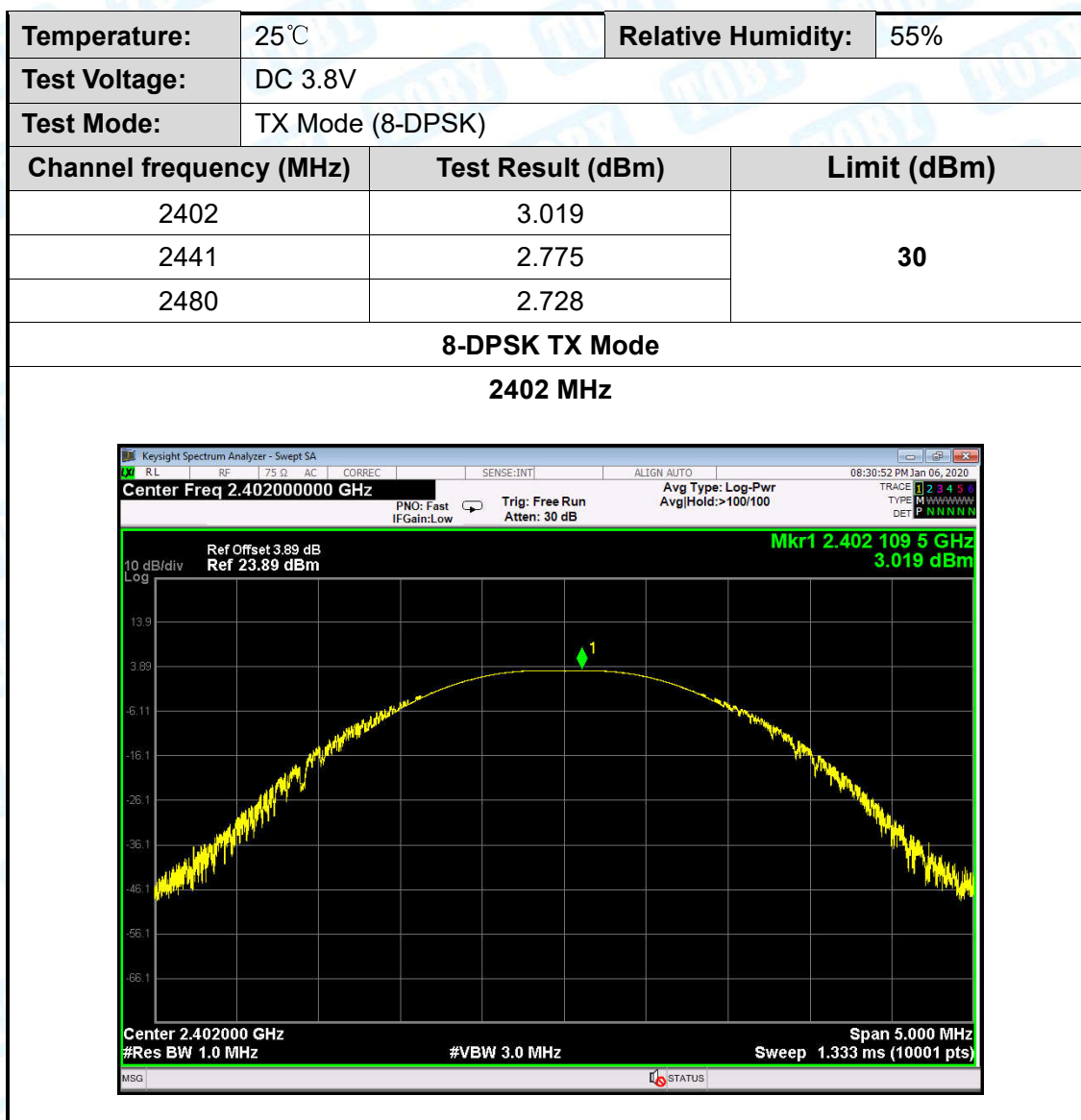
π /4-DQPSK TX Mode

2441 MHz

 π /4-DQPSK TX Mode

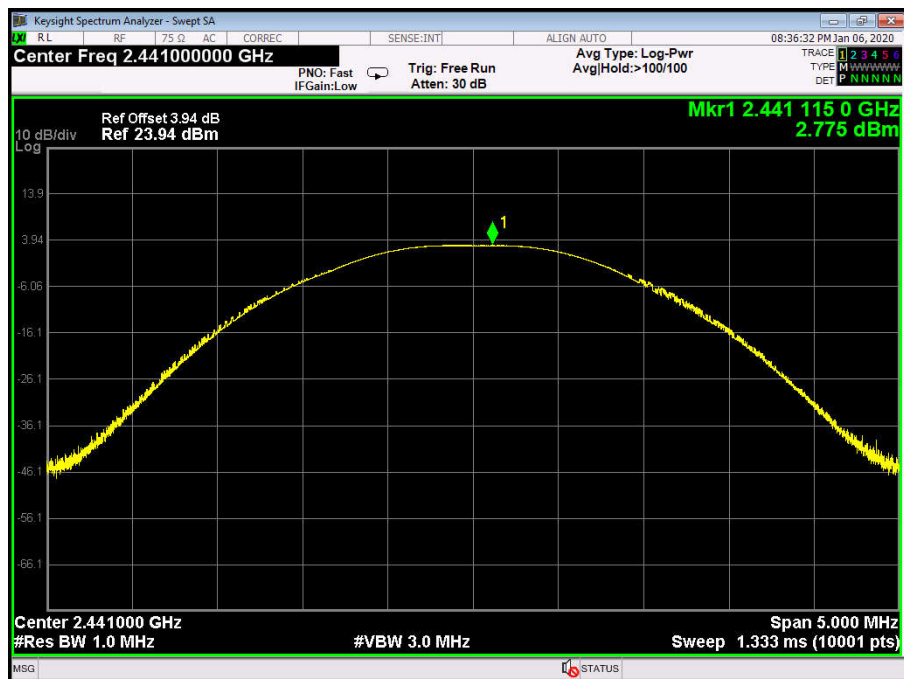
2480 MHz





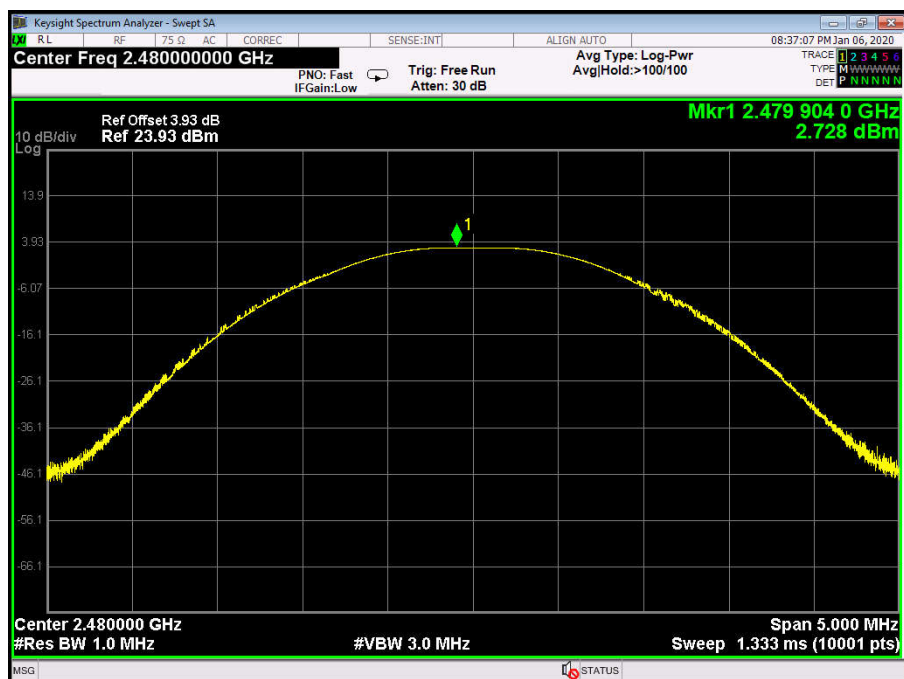
8-DPSK TX Mode

2441 MHz



8-DPSK TX Mode

2480 MHz



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