

## Appendix A

### RF Test Data for BT V5.0(BDR/EDR) (Conducted Measurement)

Product Name: Tablet PC

Trade Mark: Astro Tab

Test Model: A760

#### Environmental Conditions

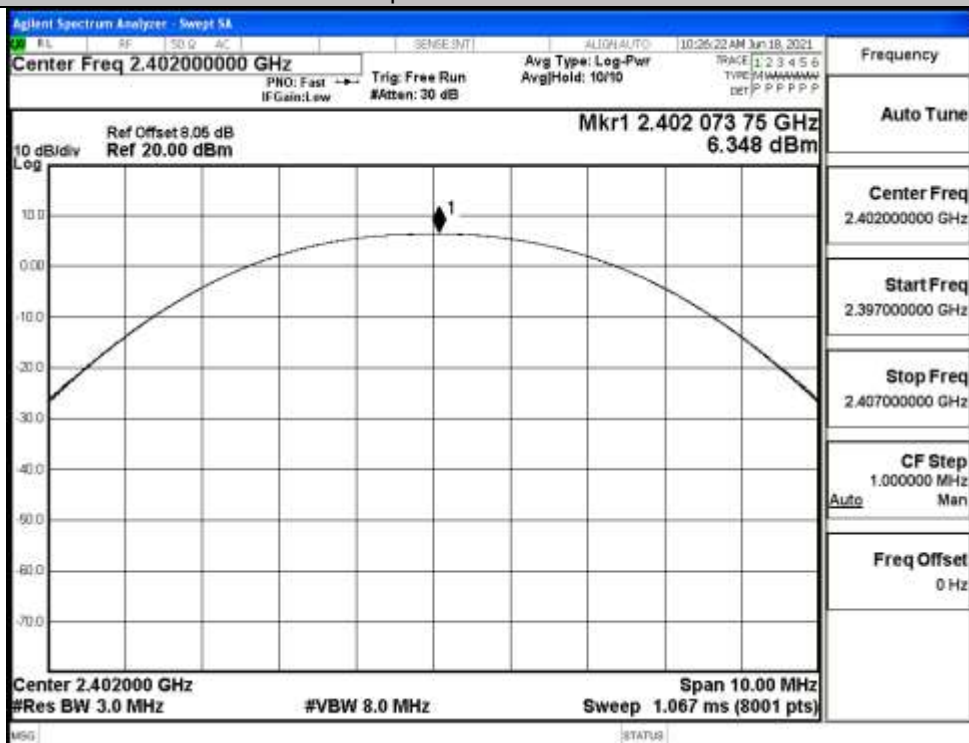
Temperature:	25 ° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan

#### A.1 Maximum Conducted Peak Output Power

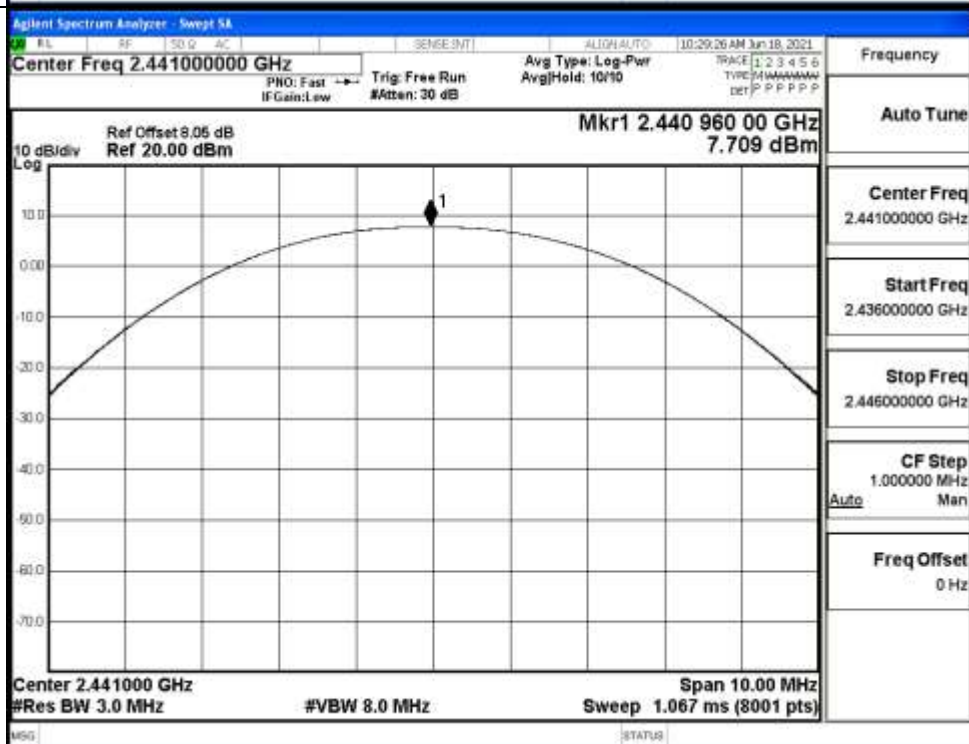
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	6.348	21	PASS
	MCH	7.709	21	PASS
	HCH	6.105	21	PASS
$\pi/4$ DQPSK	LCH	5.551	21	PASS
	MCH	6.877	21	PASS
	HCH	5.356	21	PASS
8DPSK	LCH	5.641	21	PASS
	MCH	7.042	21	PASS
	HCH	5.521	21	PASS

## Test Graphs

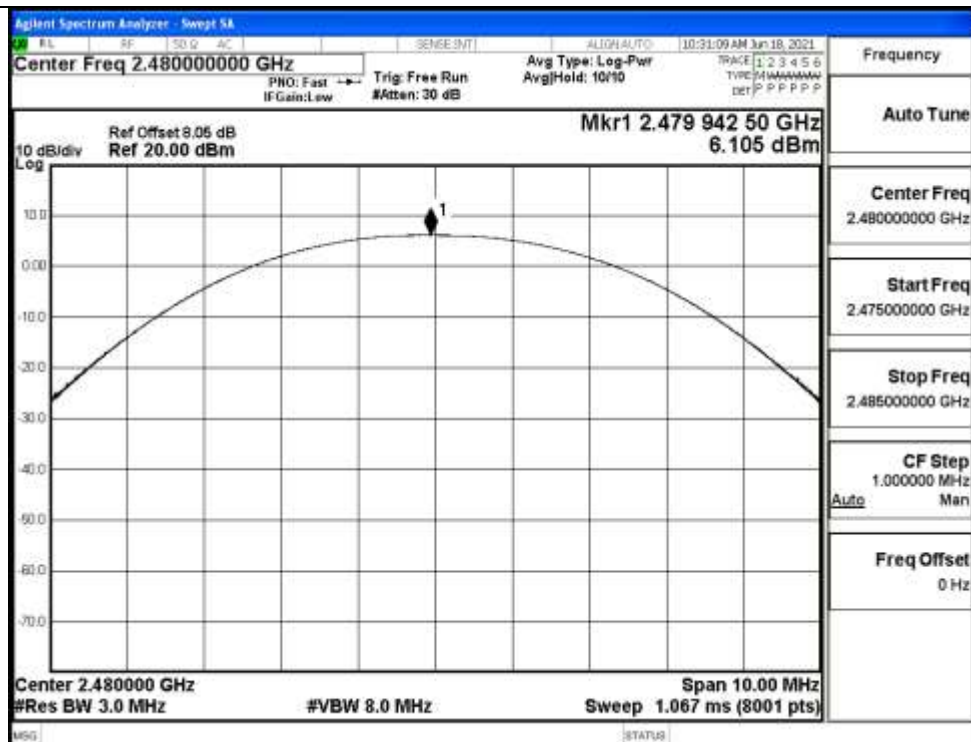
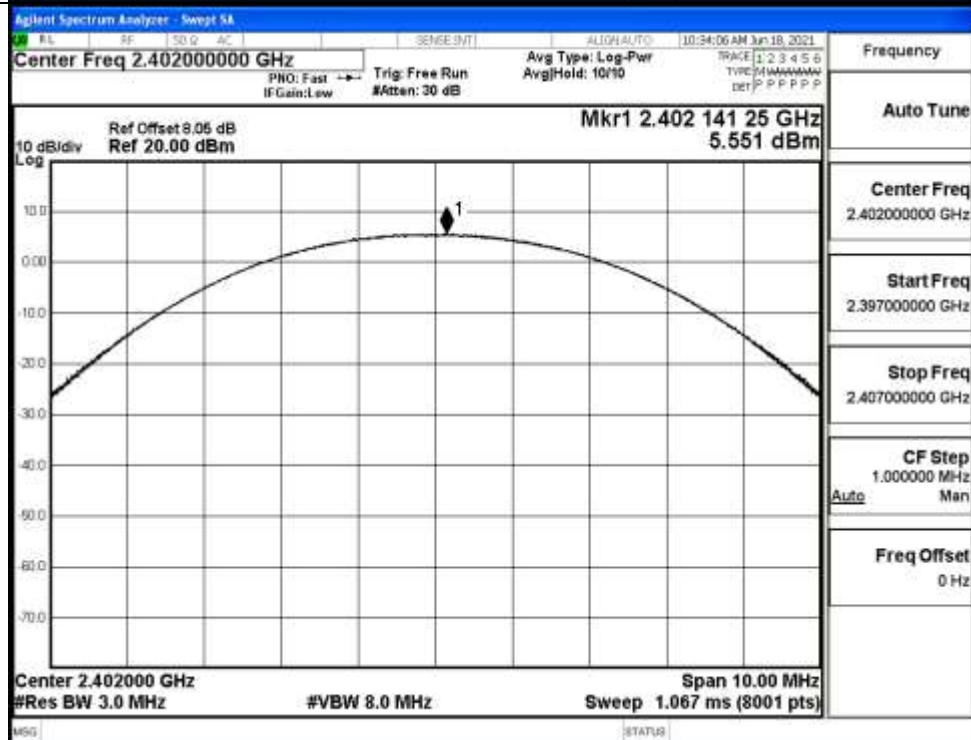
GFSK/LCH

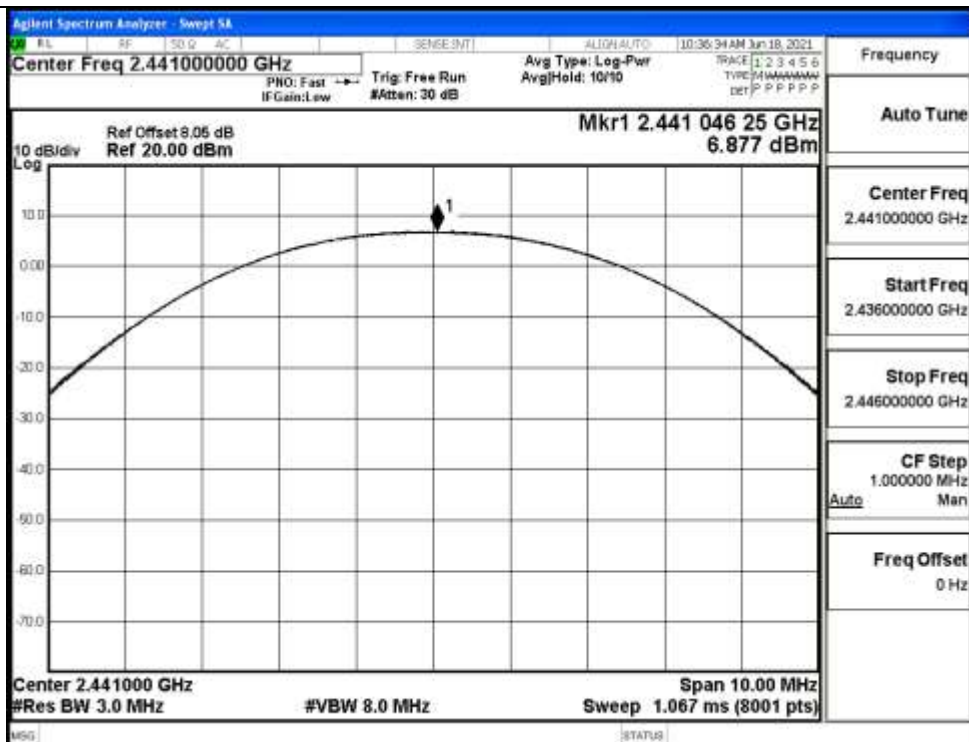
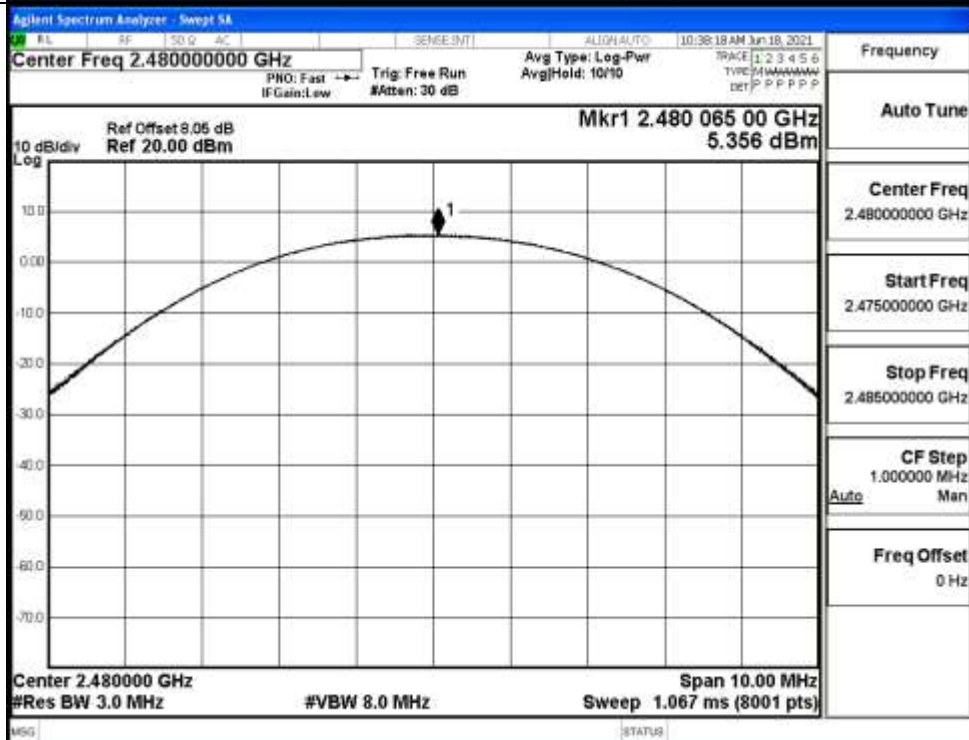


GFSK/MCH

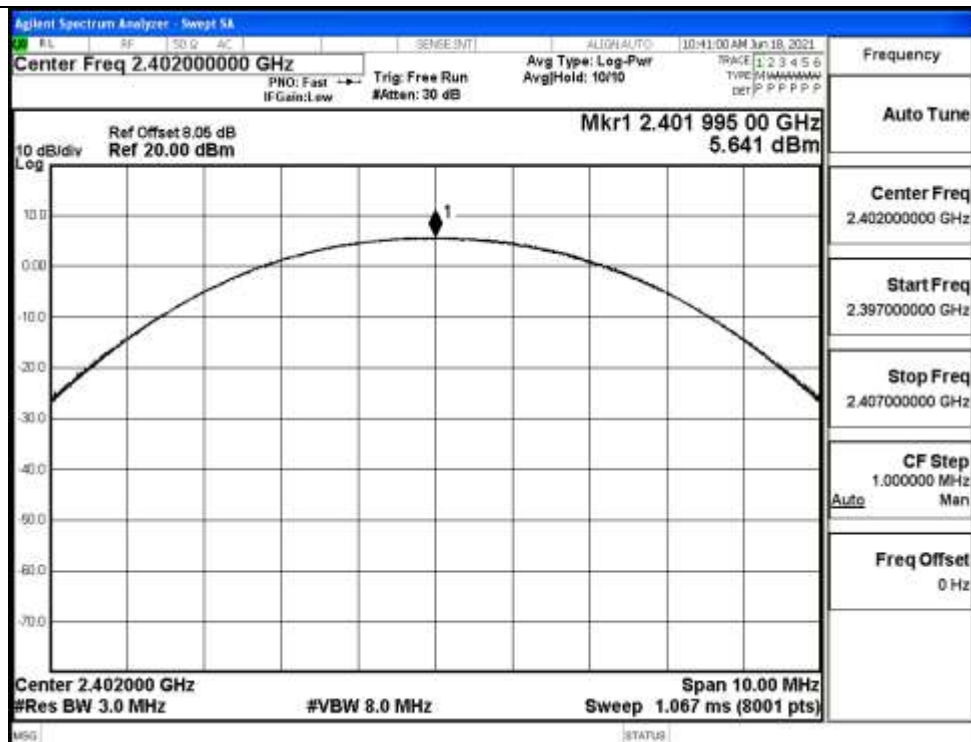


GFSK/HCH

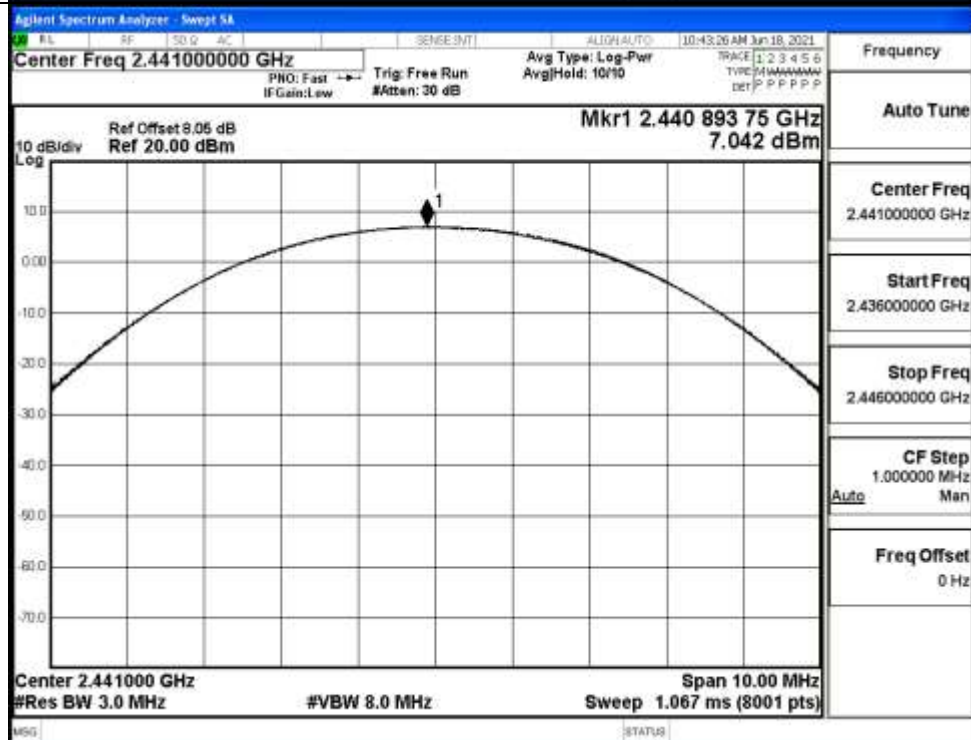
 $\pi/4$ DQPSK/LCH

$\pi/4$ DQPSK/MCH $\pi/4$ DQPSK/HCH

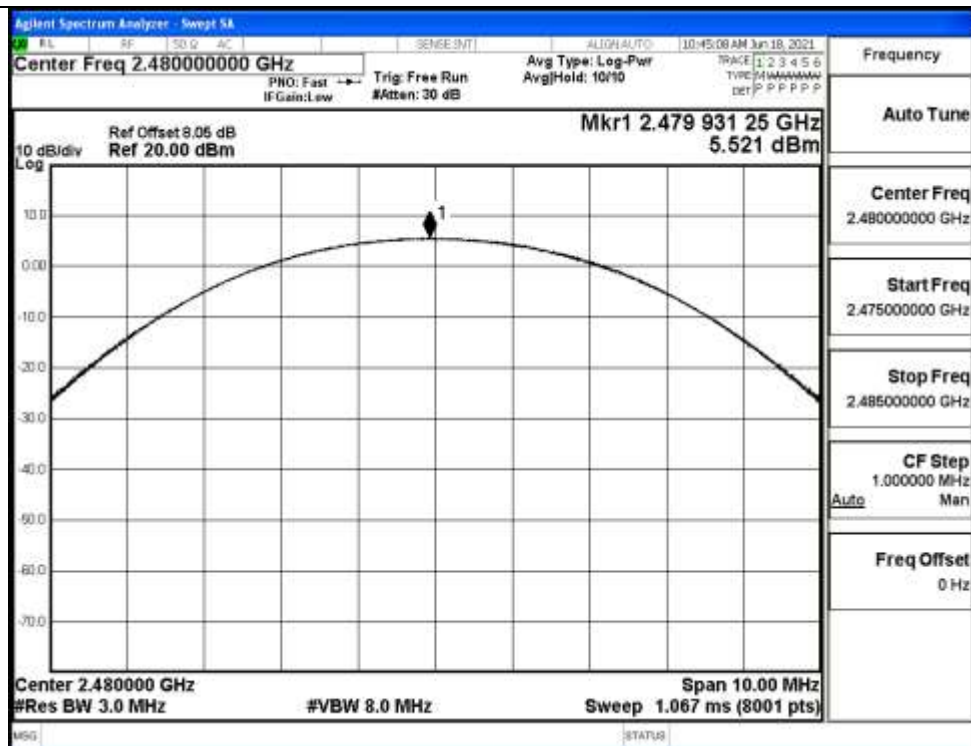
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH



## A.2 20dB Bandwidth

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.9754	Not Specified	PASS
	MCH	1.032	Not Specified	PASS
	HCH	1.036	Not Specified	PASS
$\pi/4$ DQPSK	LCH	1.286	Not Specified	PASS
	MCH	1.287	Not Specified	PASS
	HCH	1.288	Not Specified	PASS
8DPSK	LCH	1.290	Not Specified	PASS
	MCH	1.291	Not Specified	PASS
	HCH	1.293	Not Specified	PASS

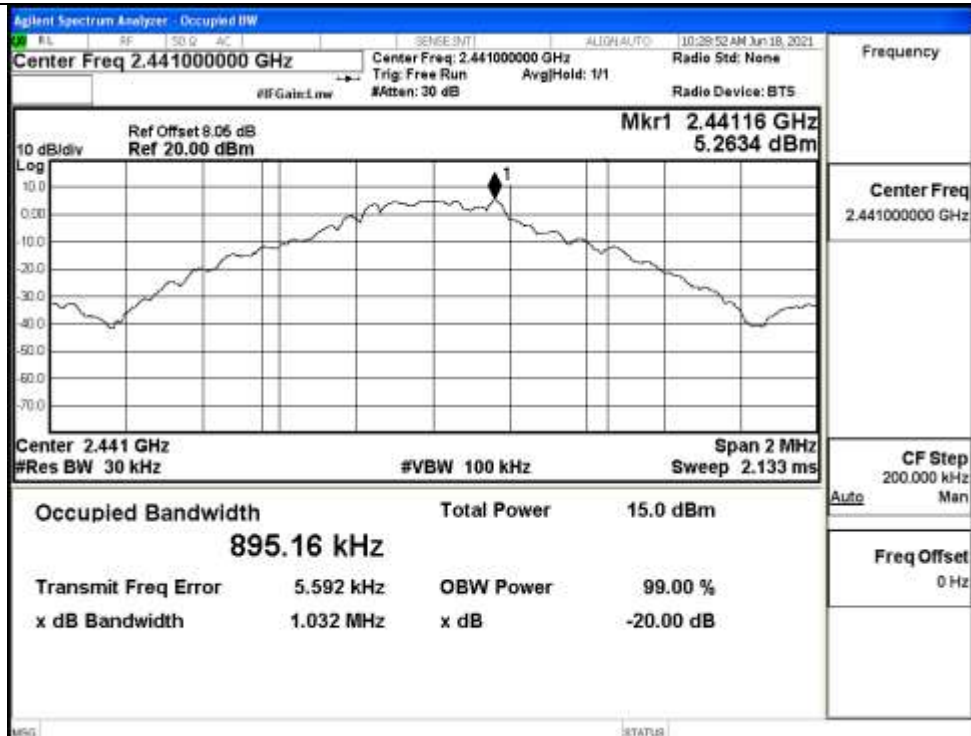
Test Graphs

GFSK/LCH





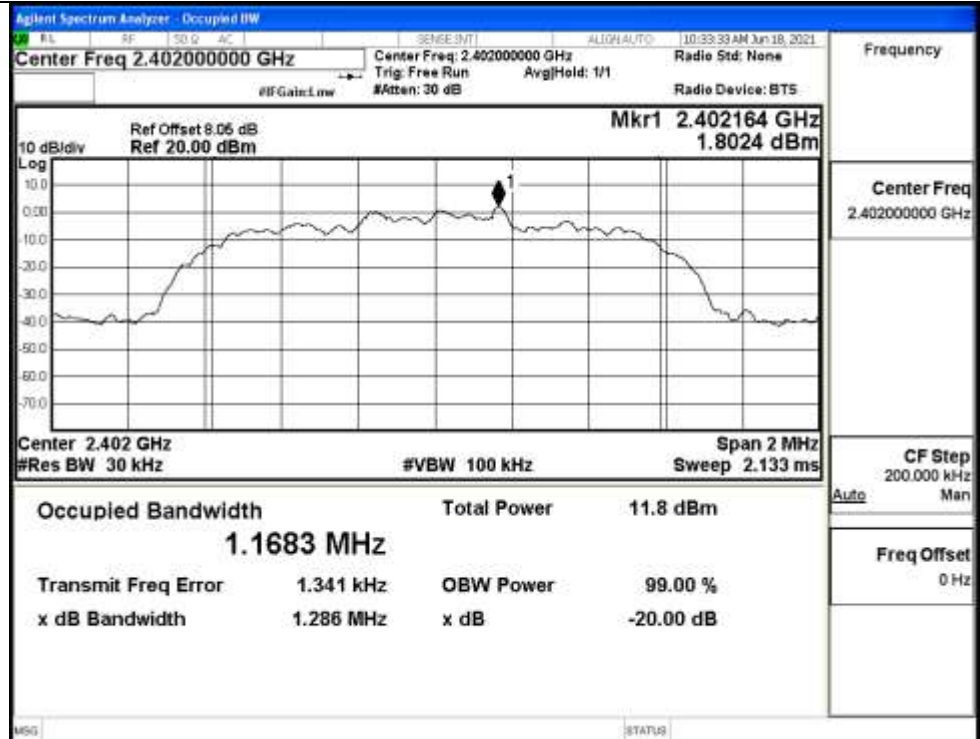
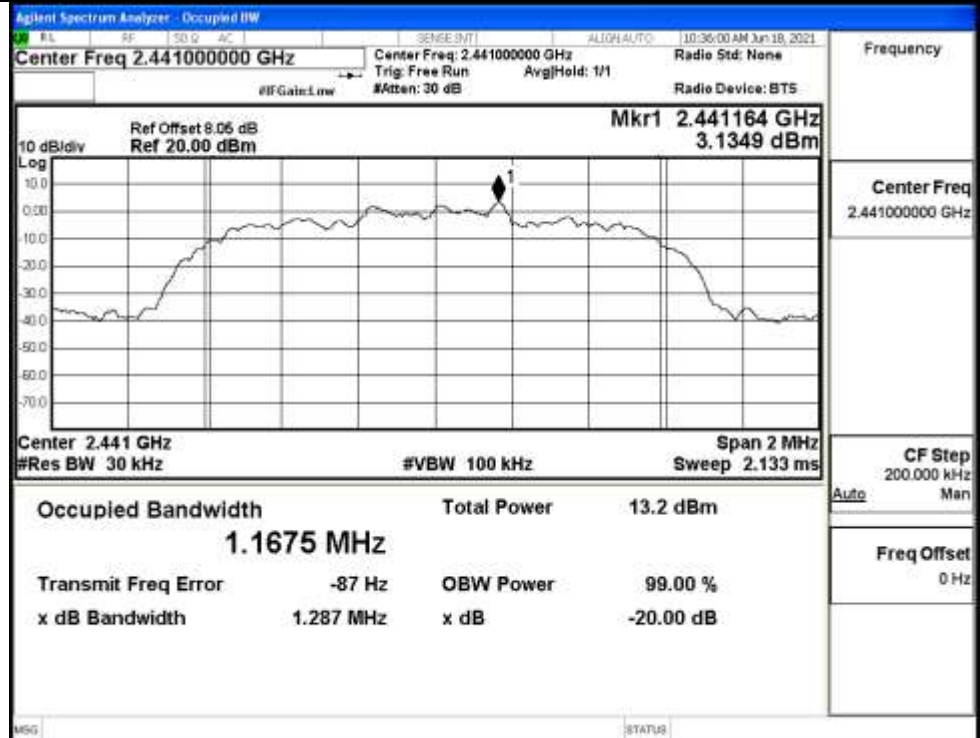
GFSK/MCH

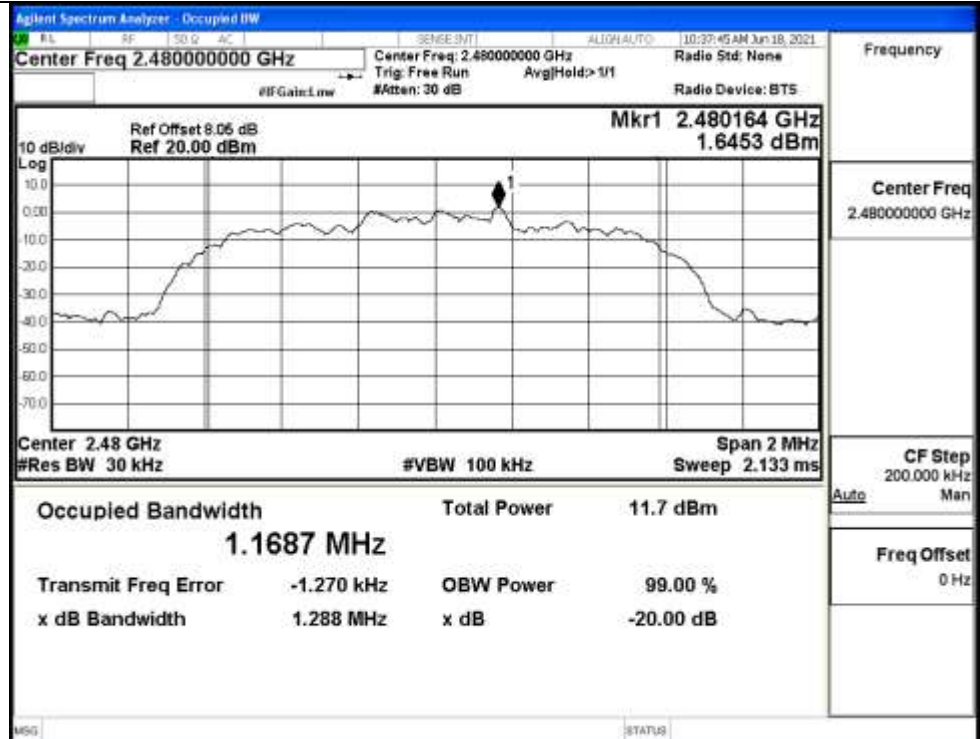


GFSK/HCH

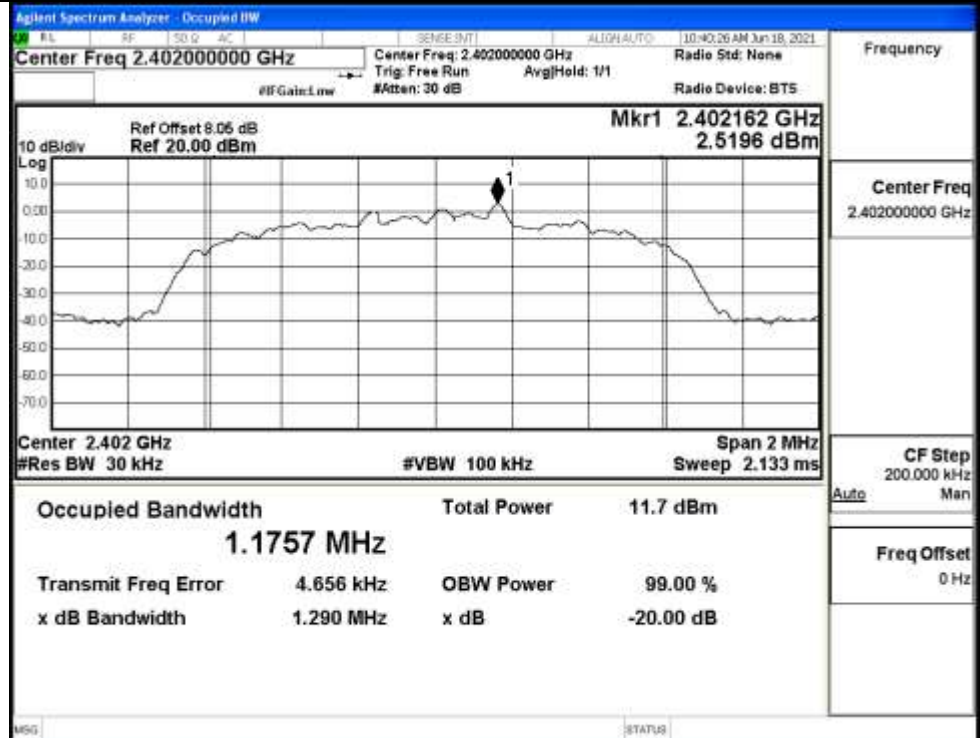




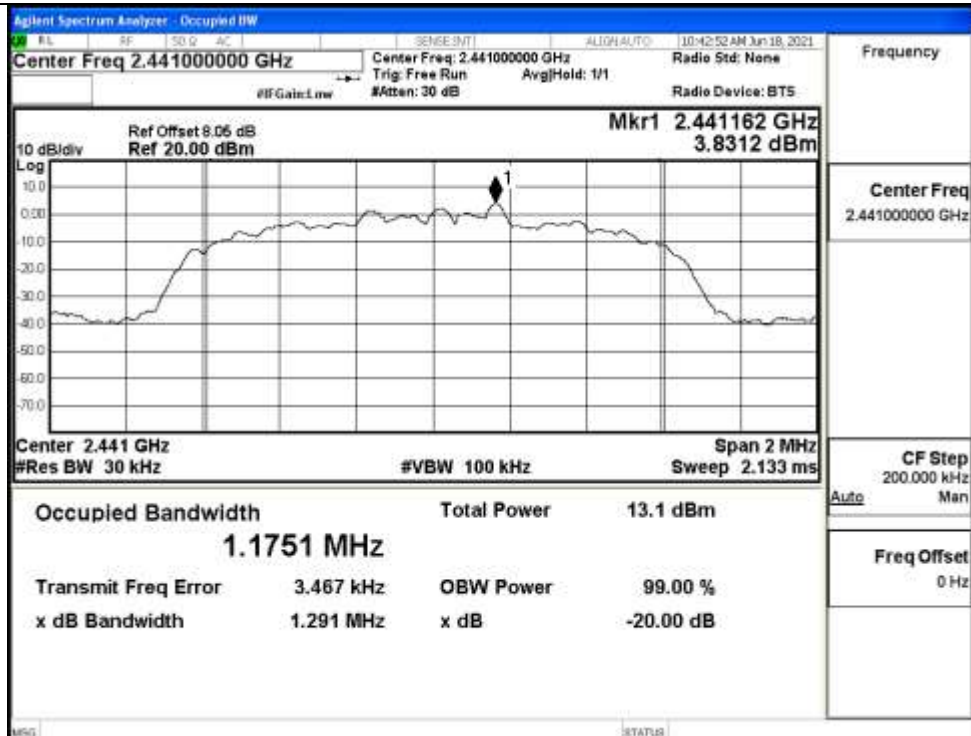
$\pi/4$ DQPSK/LCH $\pi/4$ DQPSK/MCH

$\pi/4$ DQPSK/HCH

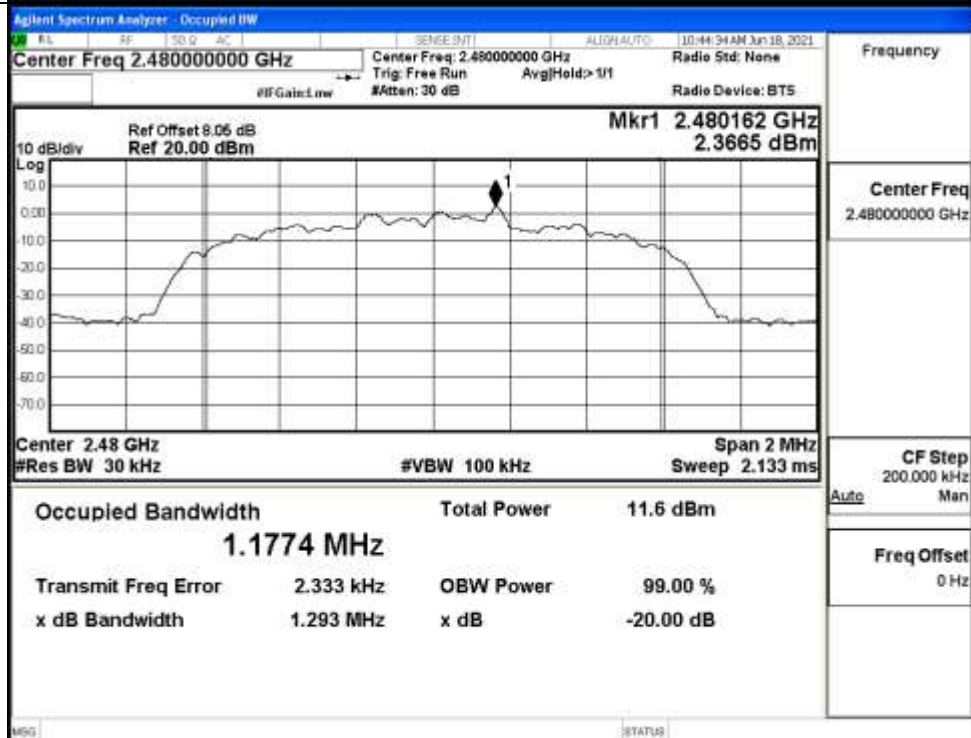
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH



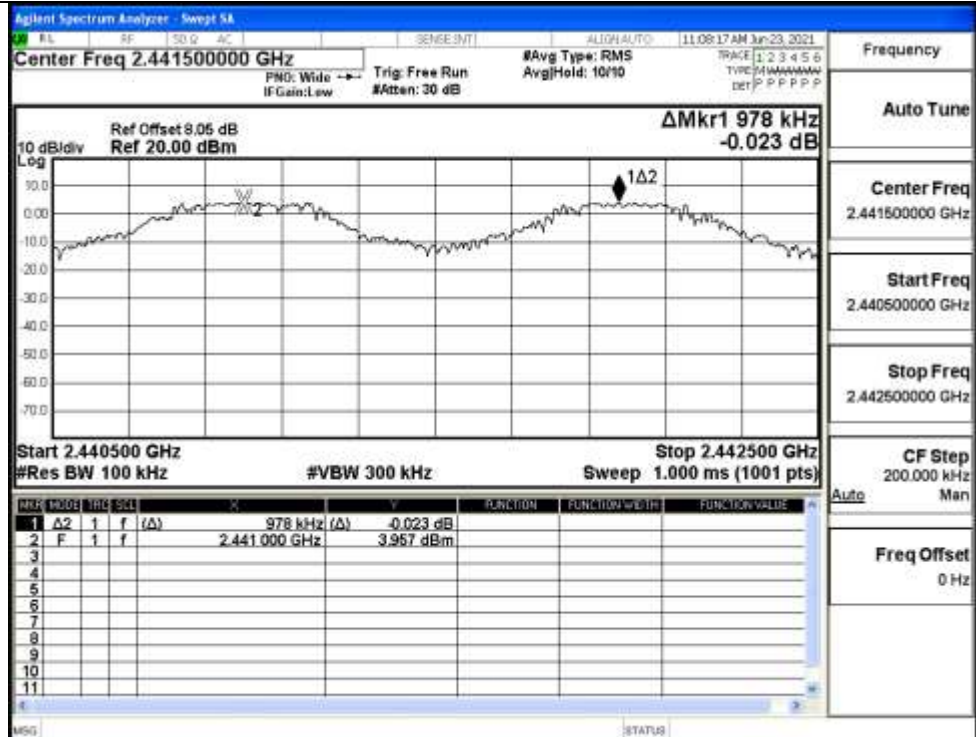
### A.3 Carrier Frequency Separation

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.891	0.691	PASS
	MCH	0.978	0.691	PASS
	HCH	1.030	0.691	PASS
$\pi/4$ DQPSK	LCH	1.044	0.859	PASS
	MCH	0.870	0.859	PASS
	HCH	0.980	0.859	PASS
8DPSK	LCH	1.200	0.862	PASS
	MCH	0.874	0.862	PASS
	HCH	0.870	0.862	PASS

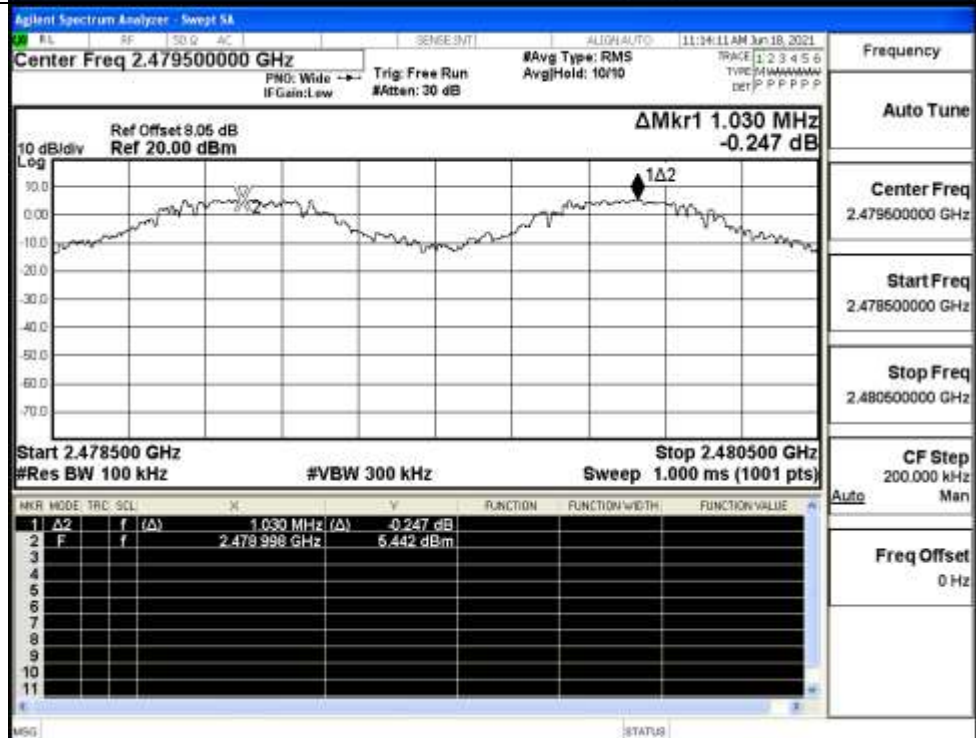
## Test Graphs



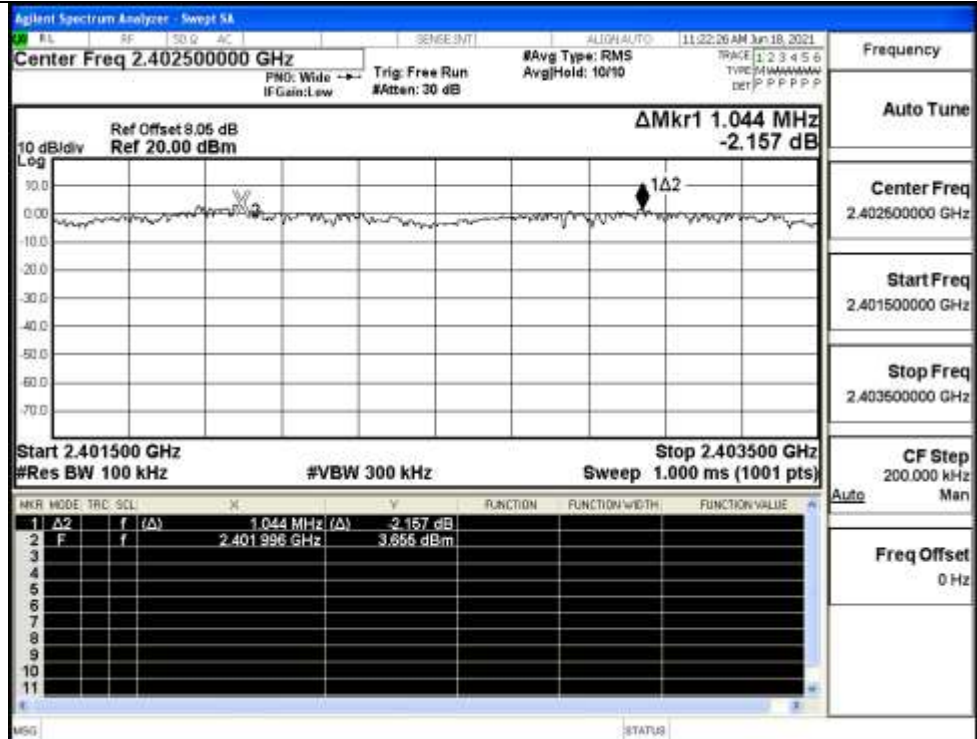
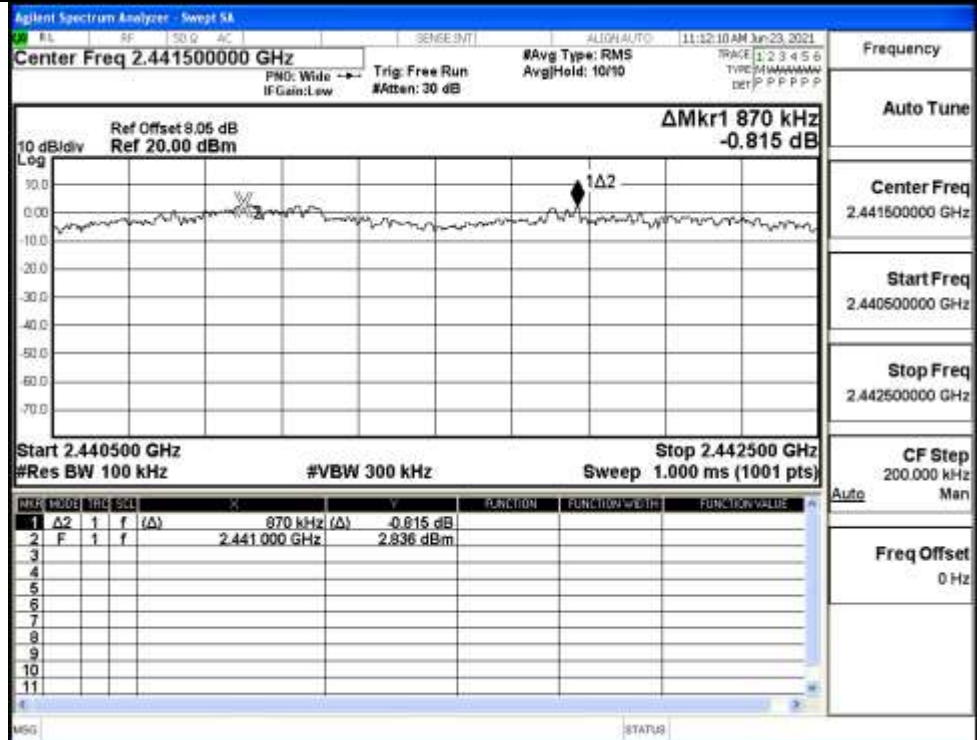
GFSK/MCH

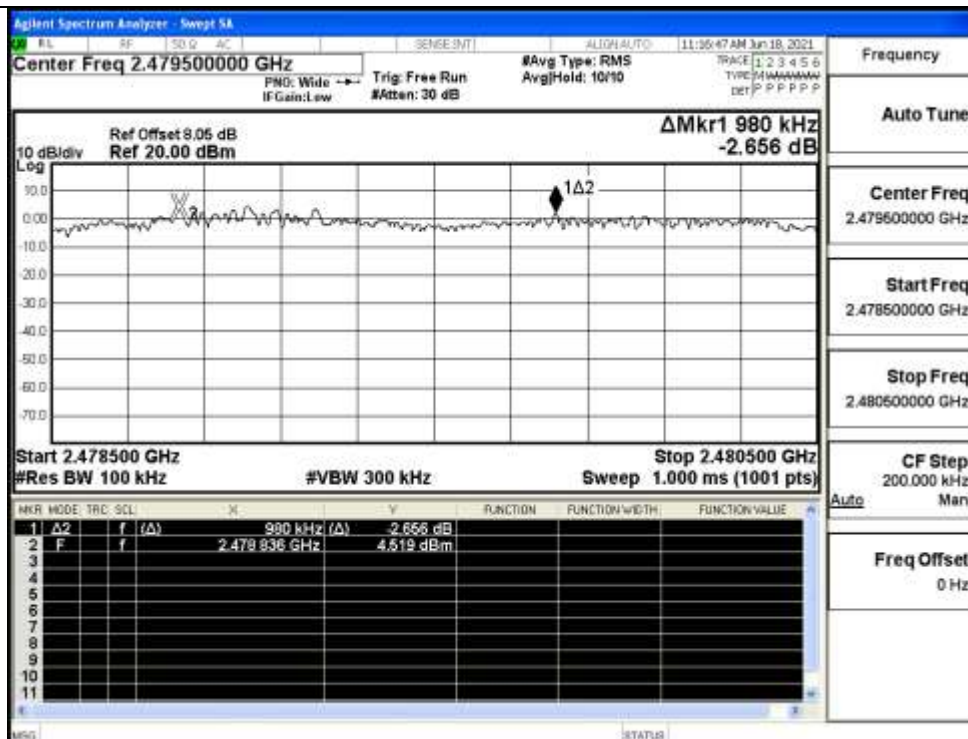


GFSK/HCH

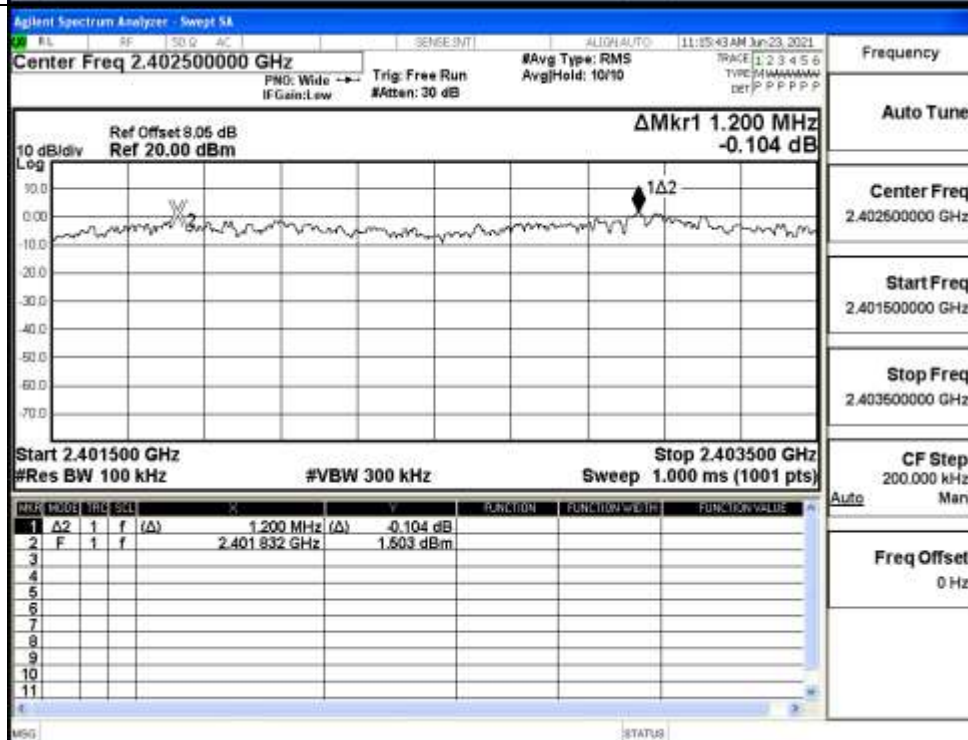




$\pi/4$ DQPSK/LCH $\pi/4$ DQPSK/MCH

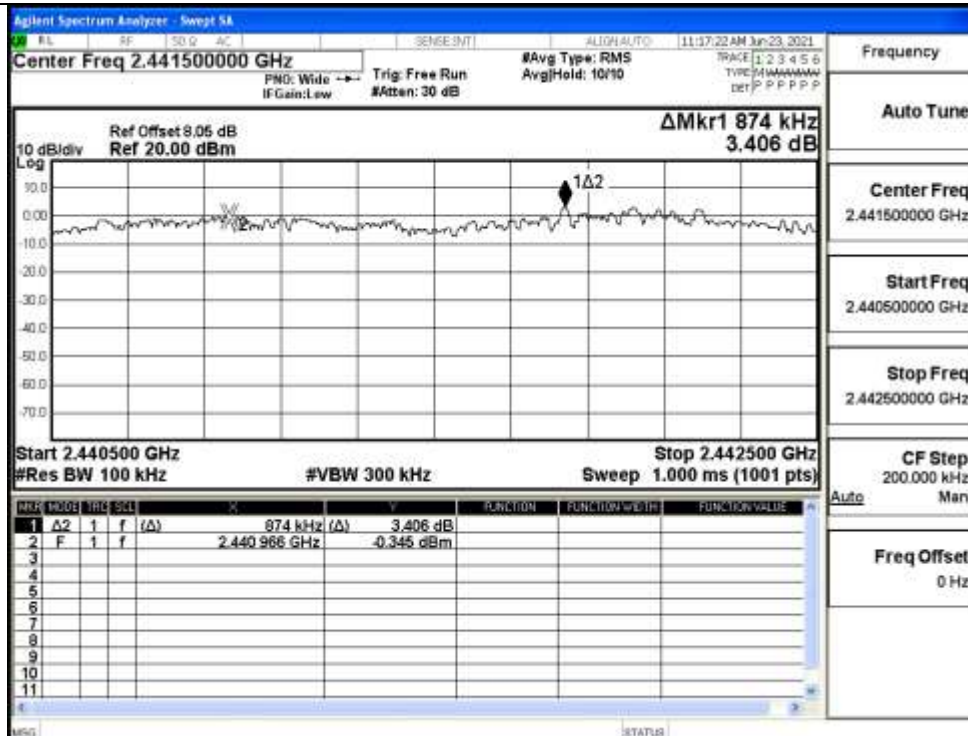
$\pi/4$ DQPSK/HCH

8DPSK/LCH

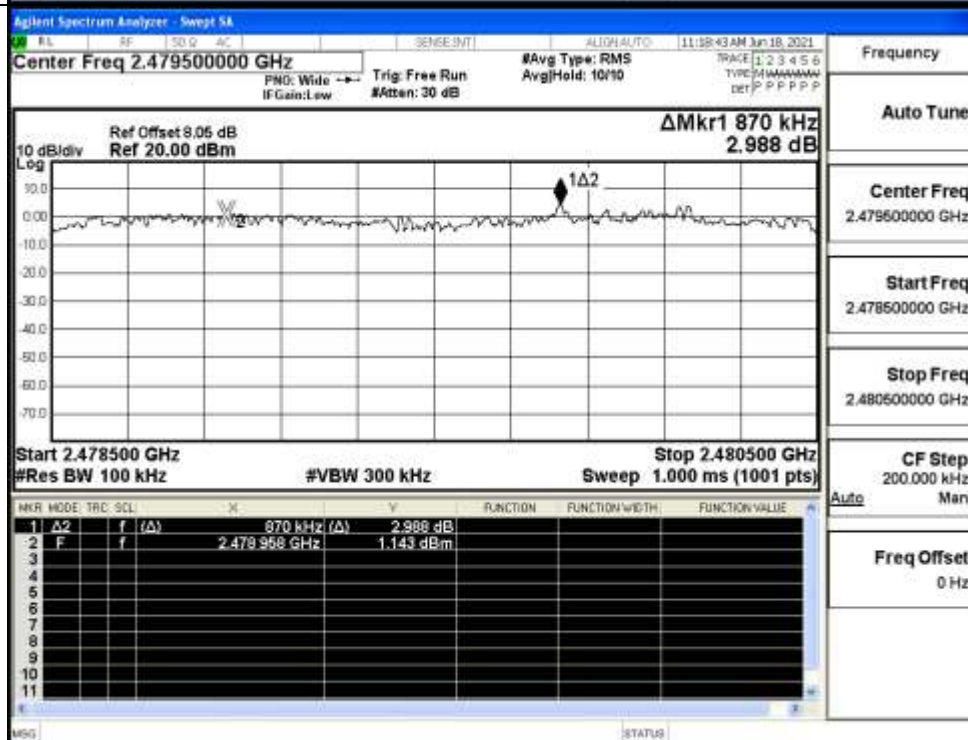




8DPSK/MCH



8DPSK/HCH

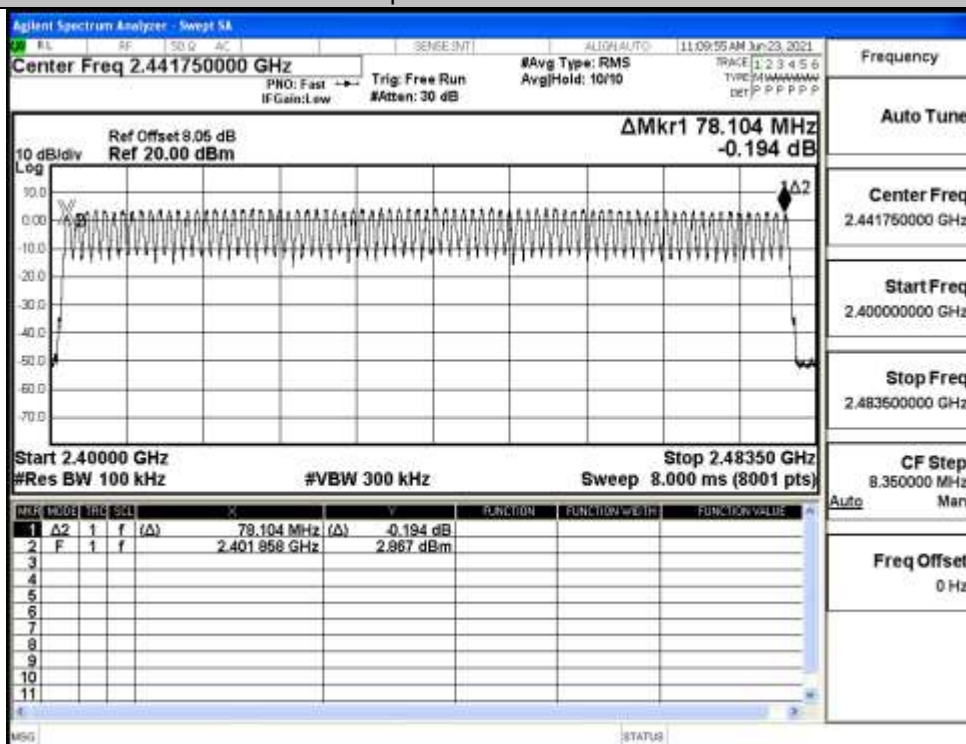
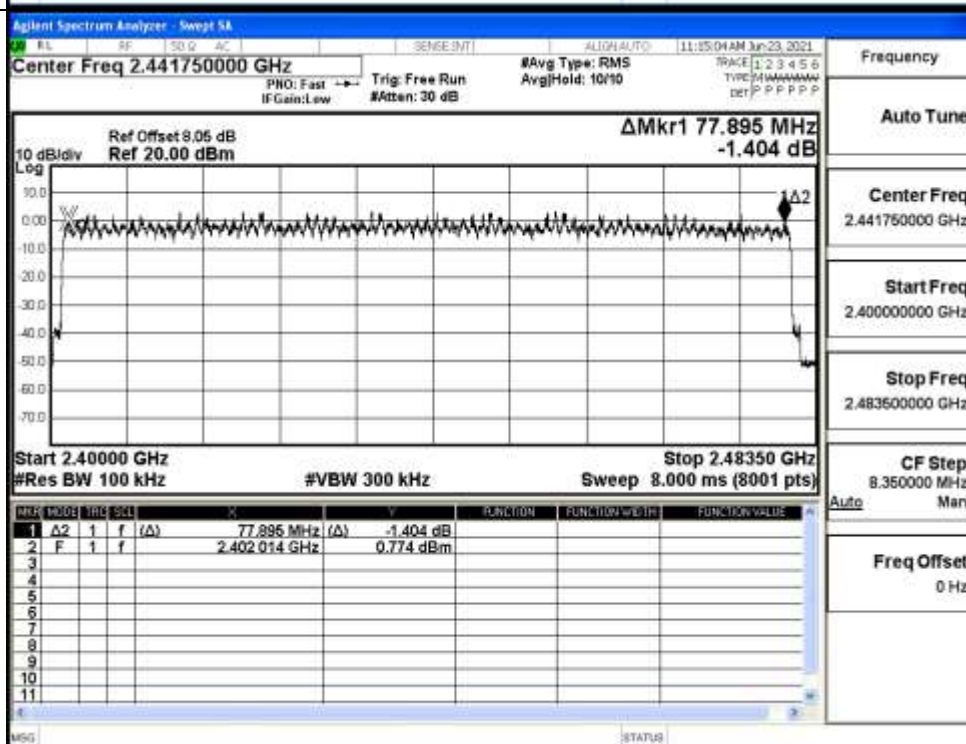


## A.4 Hopping Channel Number

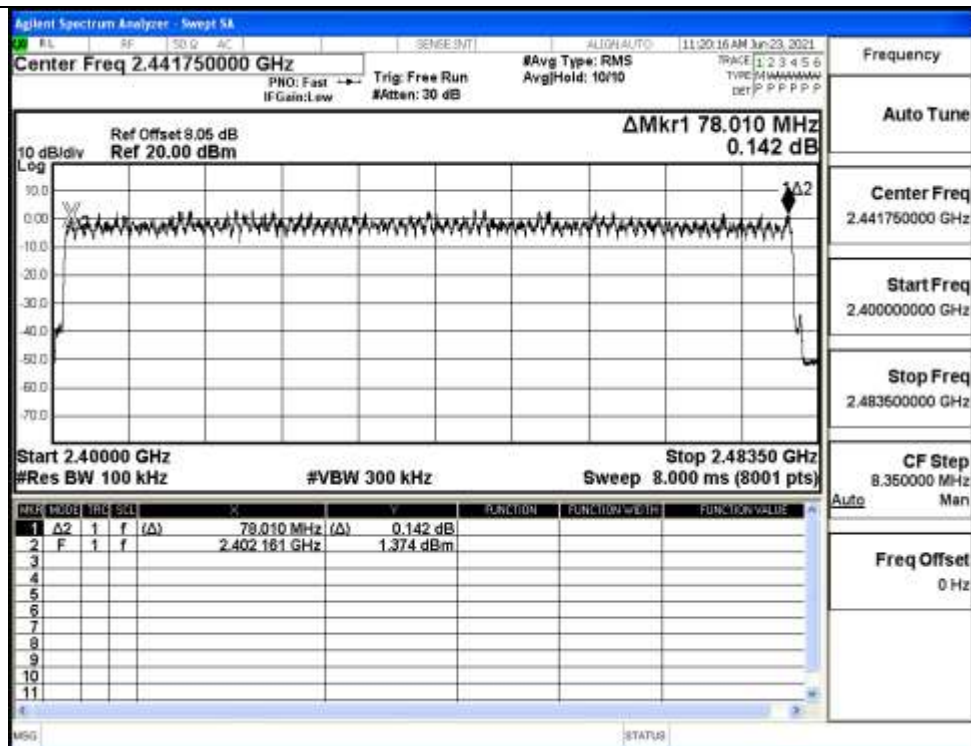
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	$\geq 15$	PASS
$\pi/4$ DQPSK	Hop	79	$\geq 15$	PASS
8DPSK	Hop	79	$\geq 15$	PASS

### Test Graphs

GFSK/Hop

 $\pi/4$ DQPSK/Hop

8DPSK/Hop

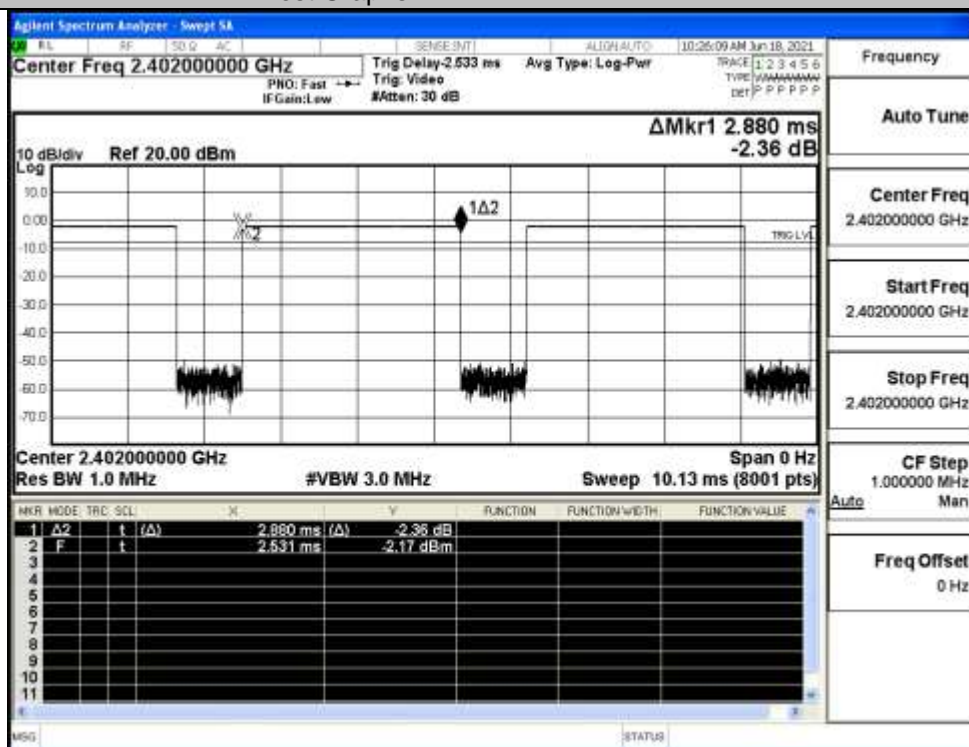


## A.5 Dwell Time

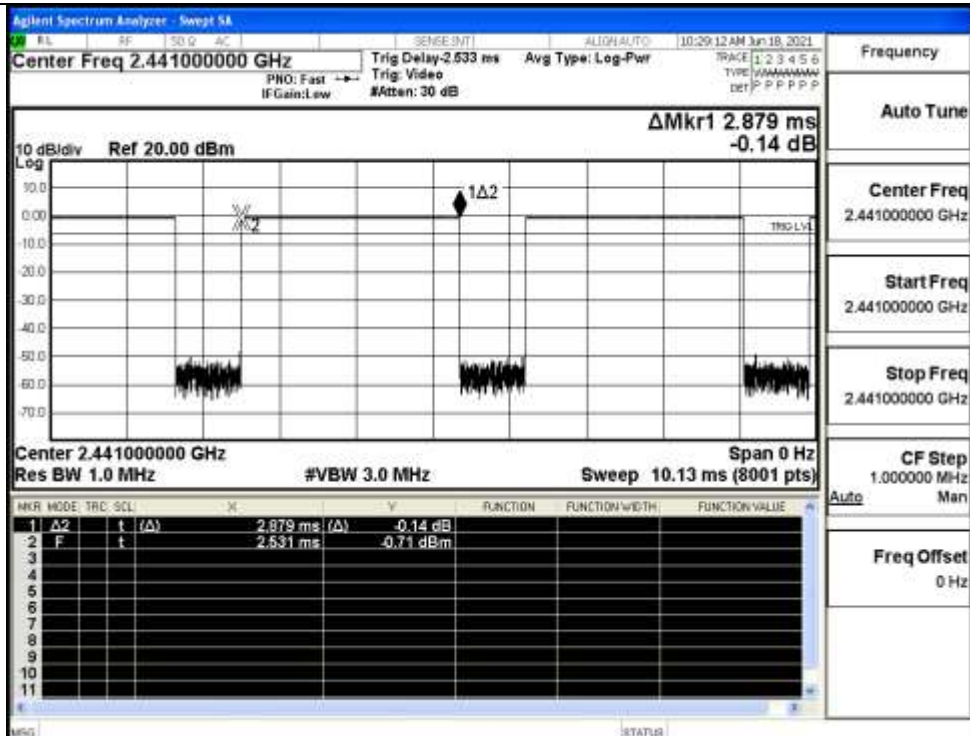
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	2.88	106.7	0.307	0.4	PASS
	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	HCH	2.88	106.7	0.307	0.4	PASS
$\pi/4$ DQPSK	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
	2DH5	MCH	2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	2.88	106.7	0.307	0.4	PASS
8DPSK	3DH5	LCH	2.88	106.7	0.308	0.4	PASS
	3DH5	MCH	2.88	106.7	0.308	0.4	PASS
	3DH5	HCH	2.88	106.7	0.308	0.4	PASS

### Test Graphs

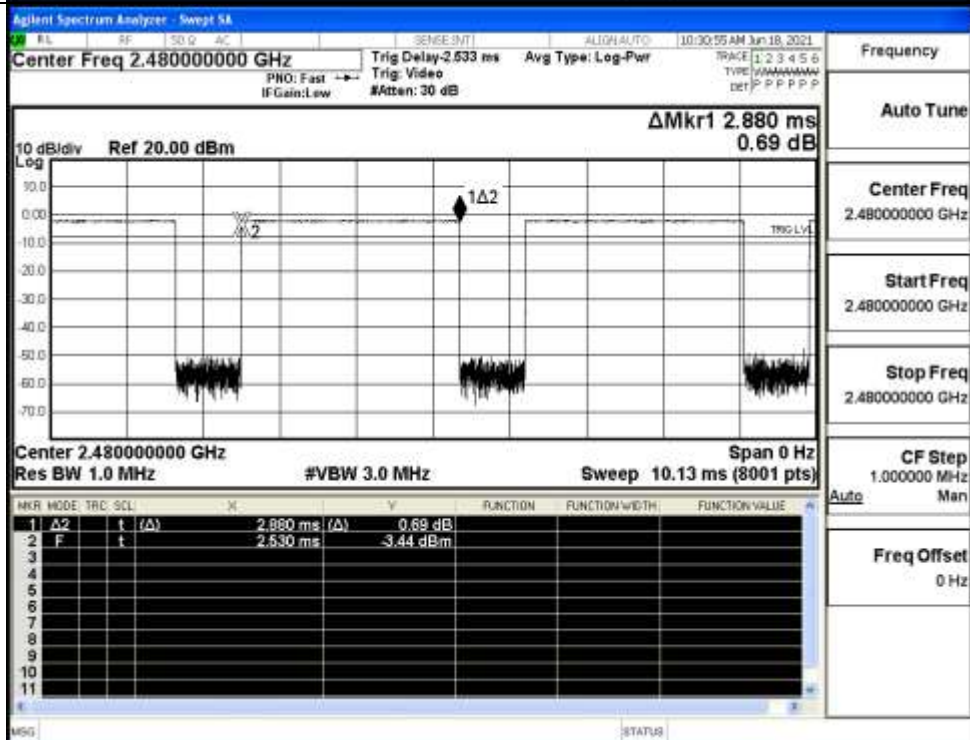
GFSK\_DH5/LCH



GFSK\_DH5/MCH

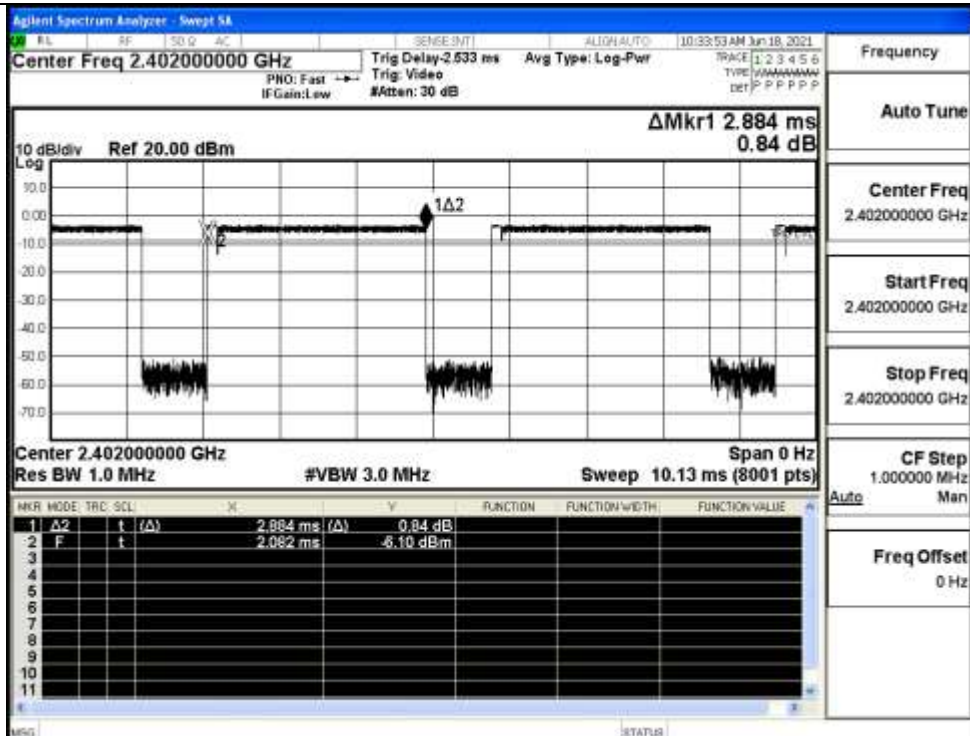


GFSK\_DH5/HCH

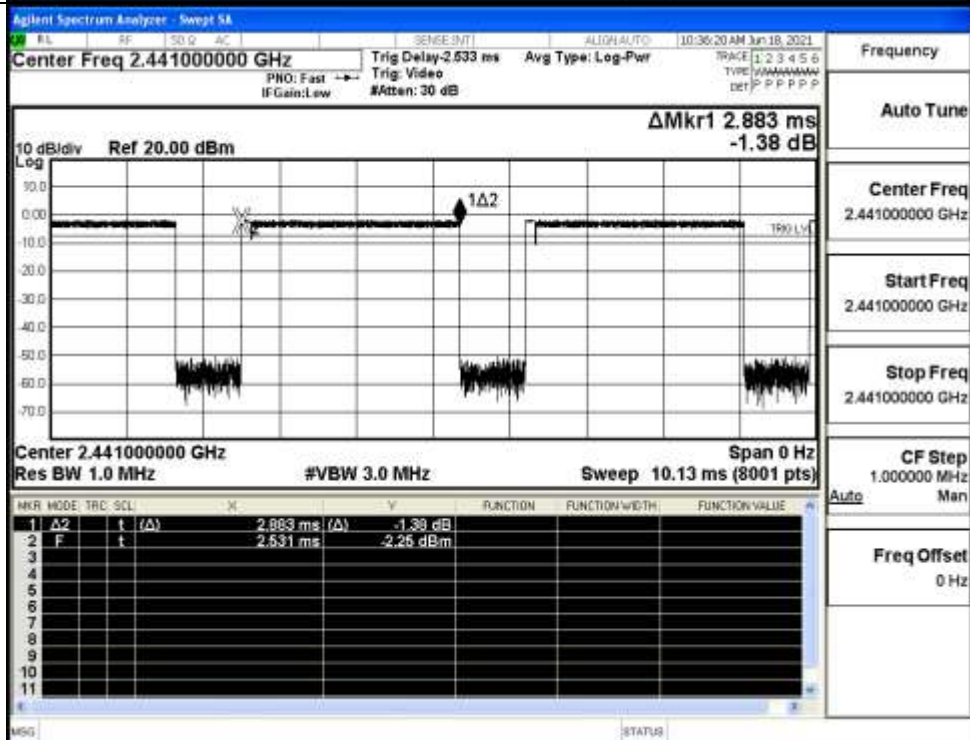




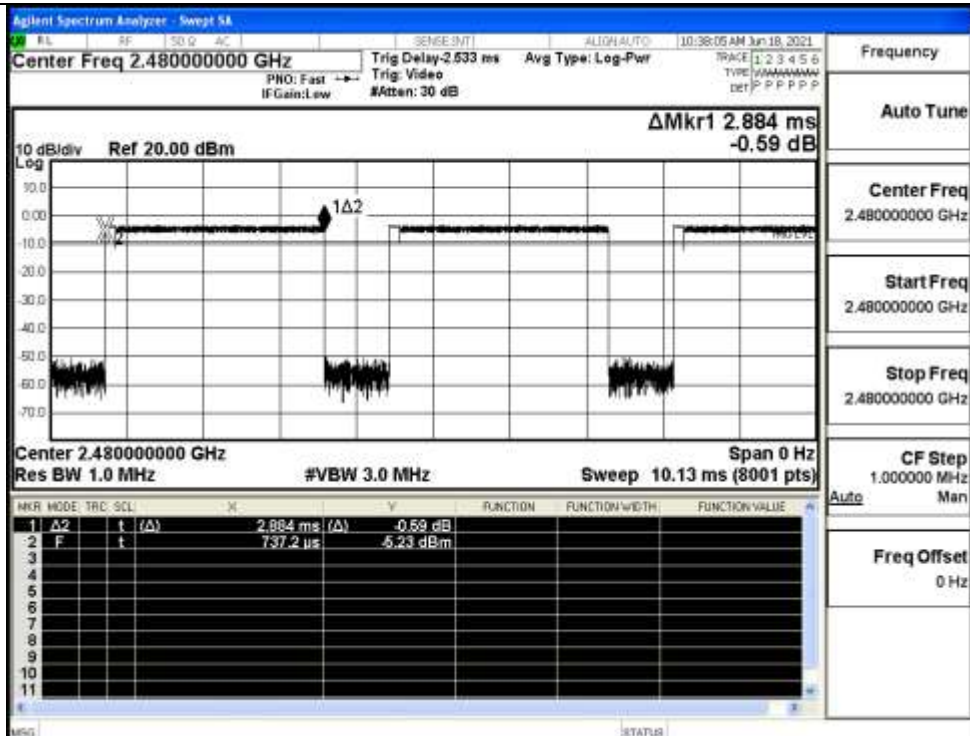
$\pi/4$ DQPSK  
\_2DH5/LCH



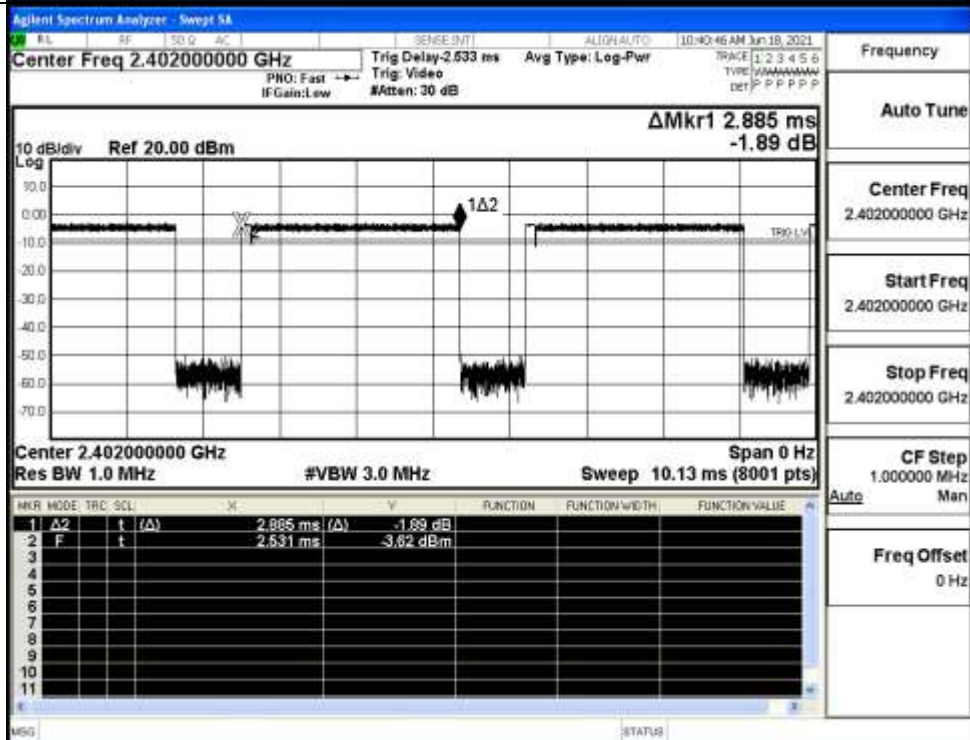
$\pi/4$ DQPSK  
\_2DH5/MCH



$\pi/4$ DQPSK  
\_2DH5/HCH

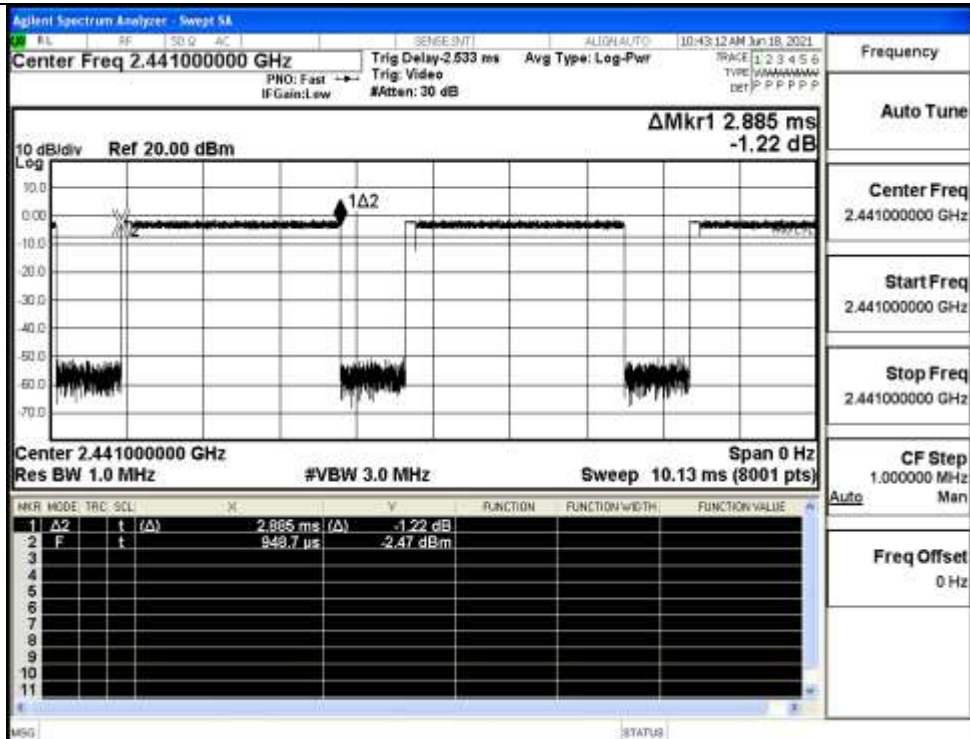


8DPSK \_3DH5/LCH

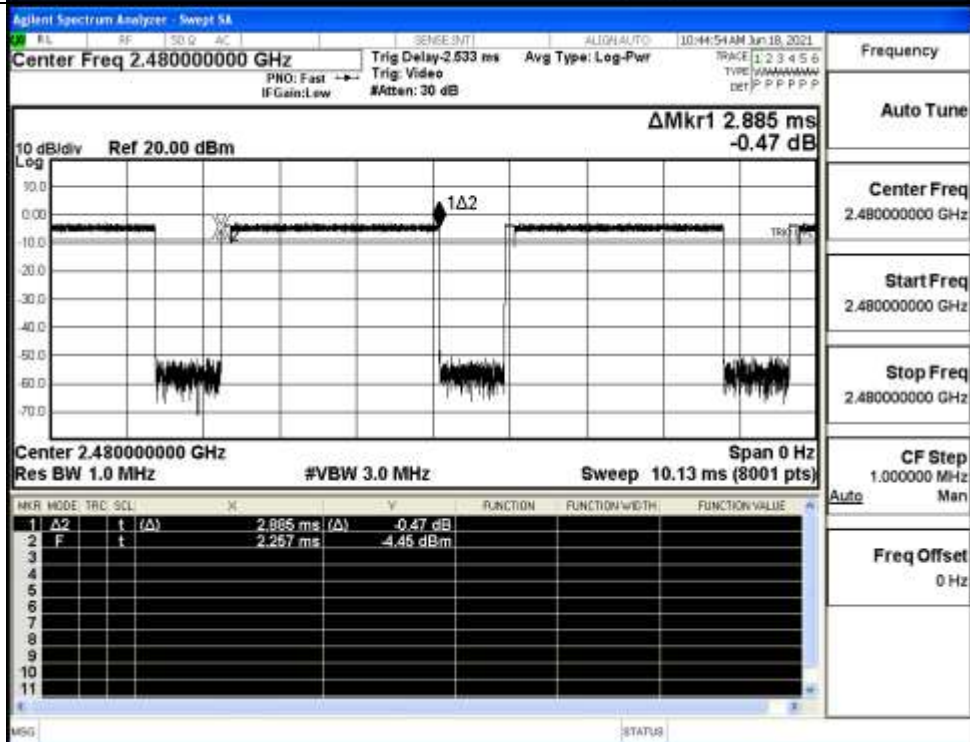




8DPSK\_3DH5/MCH



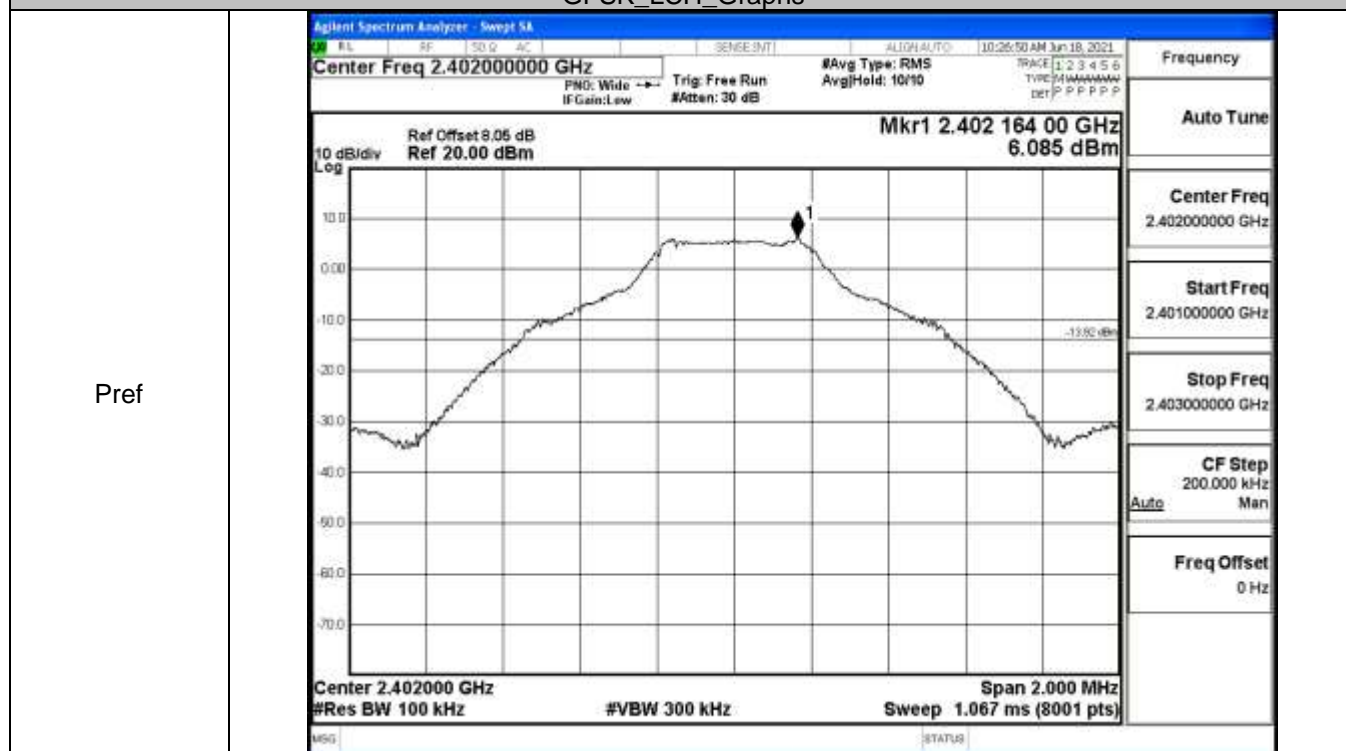
8DPSK\_3DH5/HCH

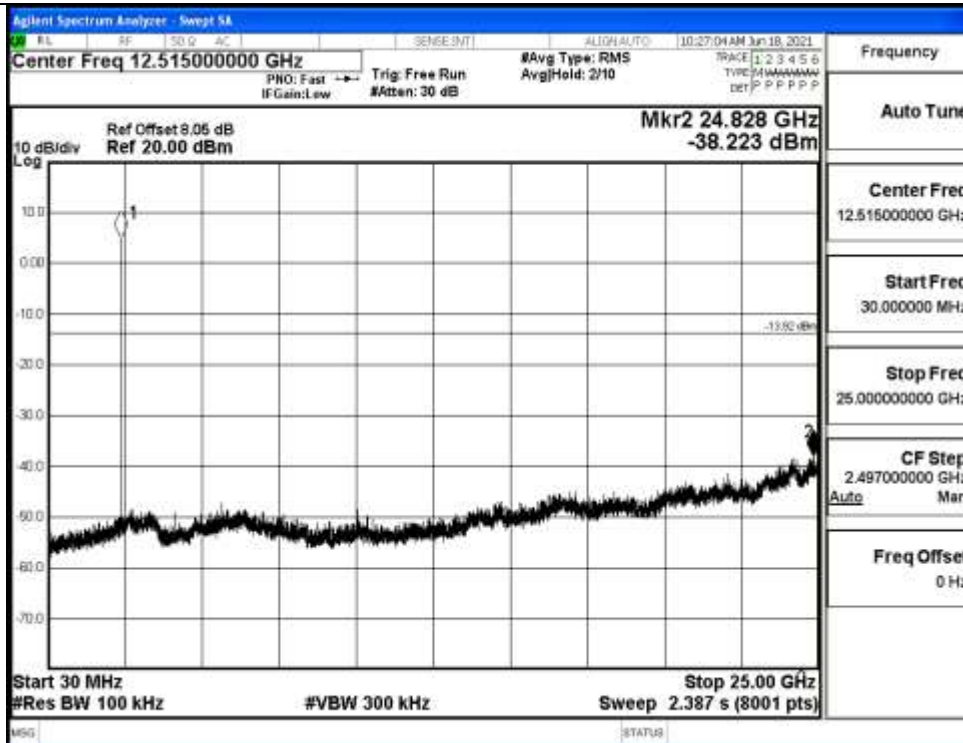


## A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	6.085	-38.223	-13.915	PASS
	MCH	7.428	-38.472	-12.572	PASS
	HCH	5.455	-37.825	-14.545	PASS
$\pi/4$ DQPSK	LCH	4.444	-37.265	-15.556	PASS
	MCH	5.866	-38.210	-14.134	PASS
	HCH	4.462	-37.915	-15.538	PASS
8DPSK	LCH	4.392	-37.720	-15.608	PASS
	MCH	5.863	-37.169	-14.137	PASS
	HCH	4.243	-38.057	-15.757	PASS

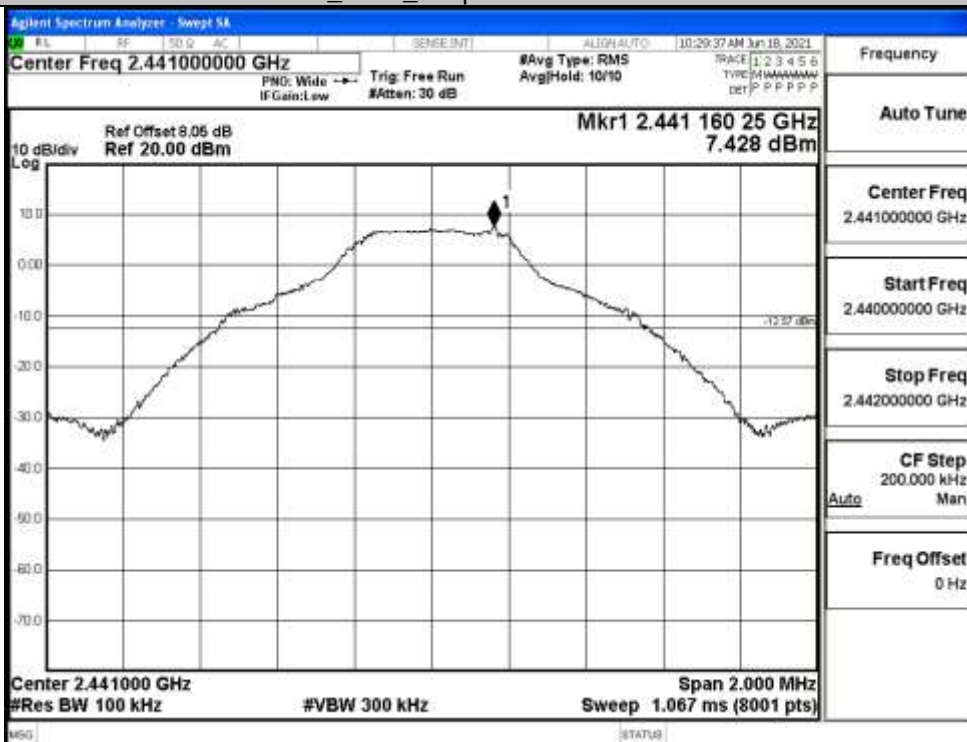
GFSK\_LCH\_Graphs



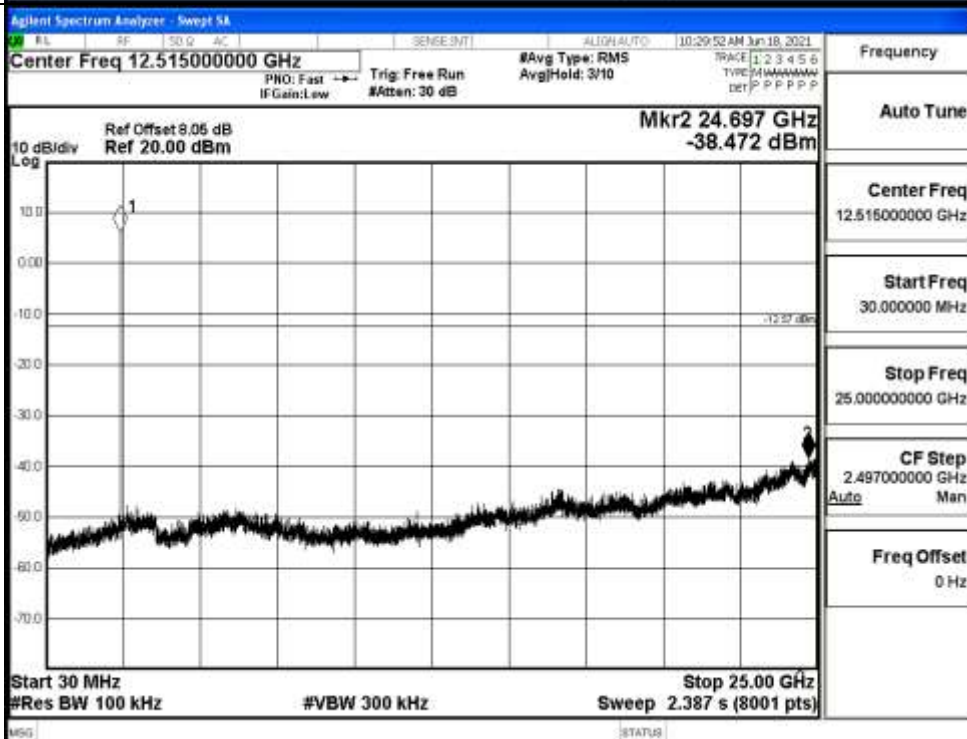
P<sub>u</sub>w

## GFSK\_MCH\_Graphs

Pref

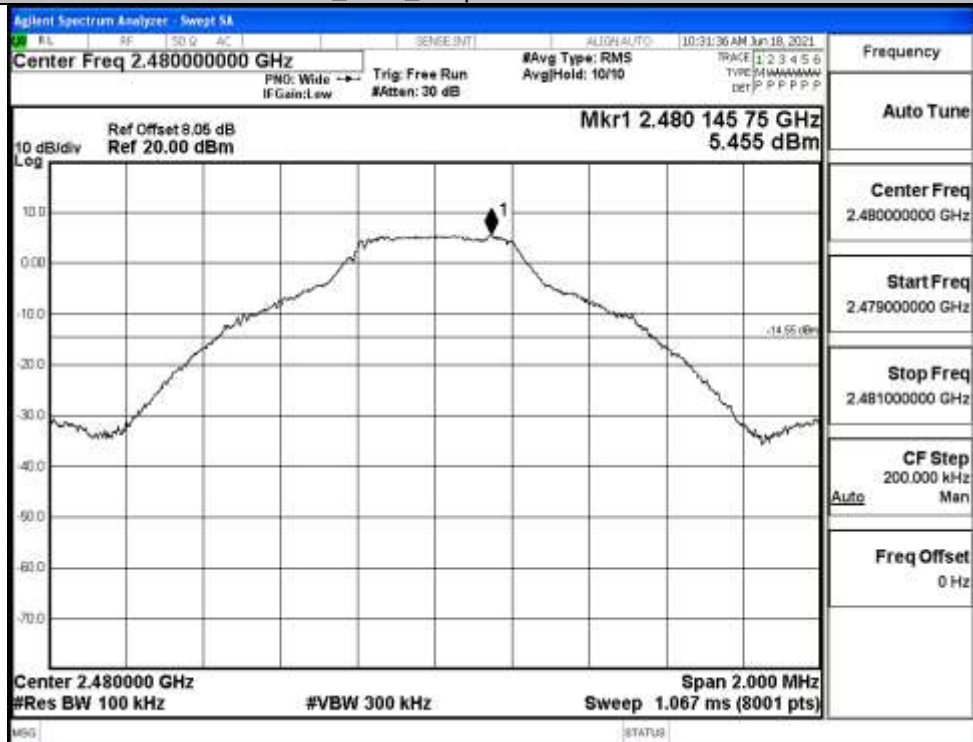


Puw

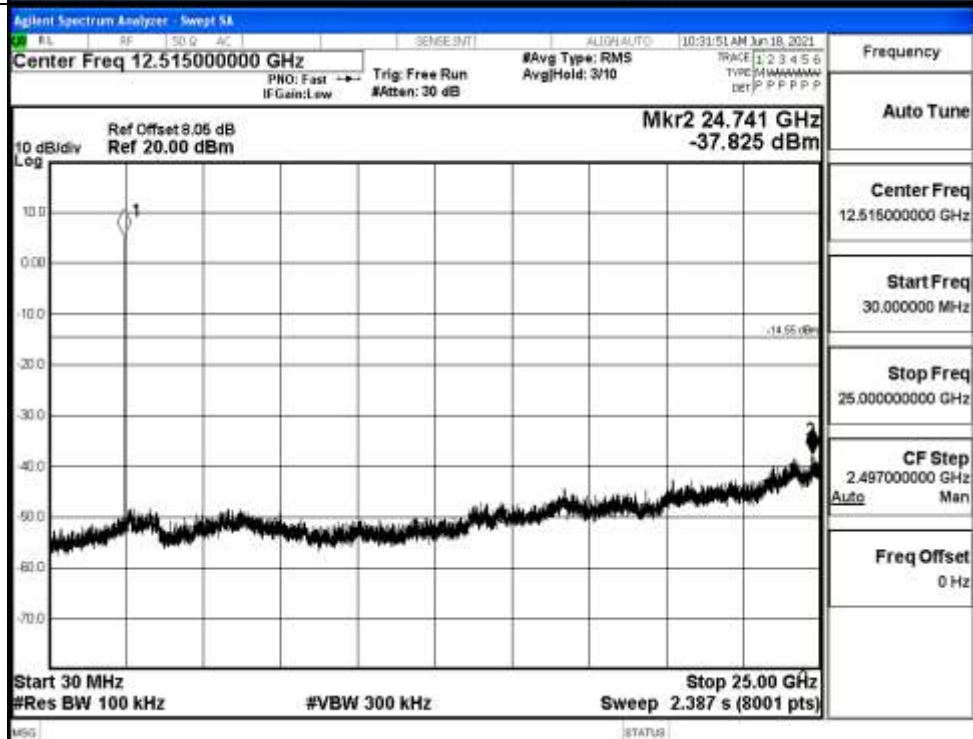


## GFSK\_HCH\_Graphs

Pref

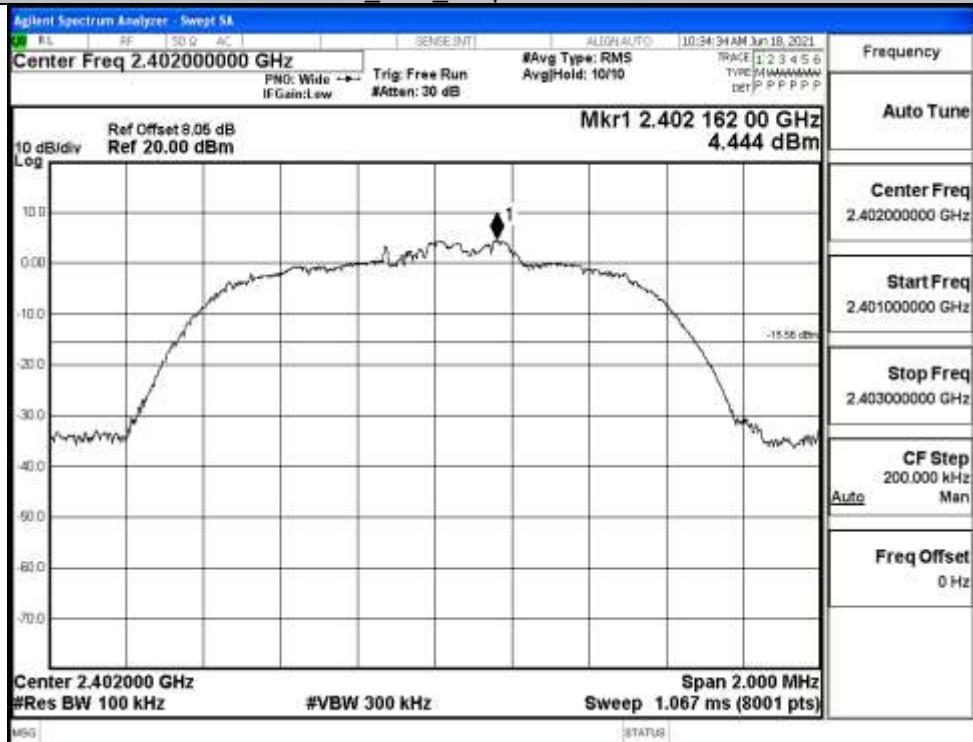


Puw



$\pi/4$ DQPSK\_LCH\_Graphs

Pref



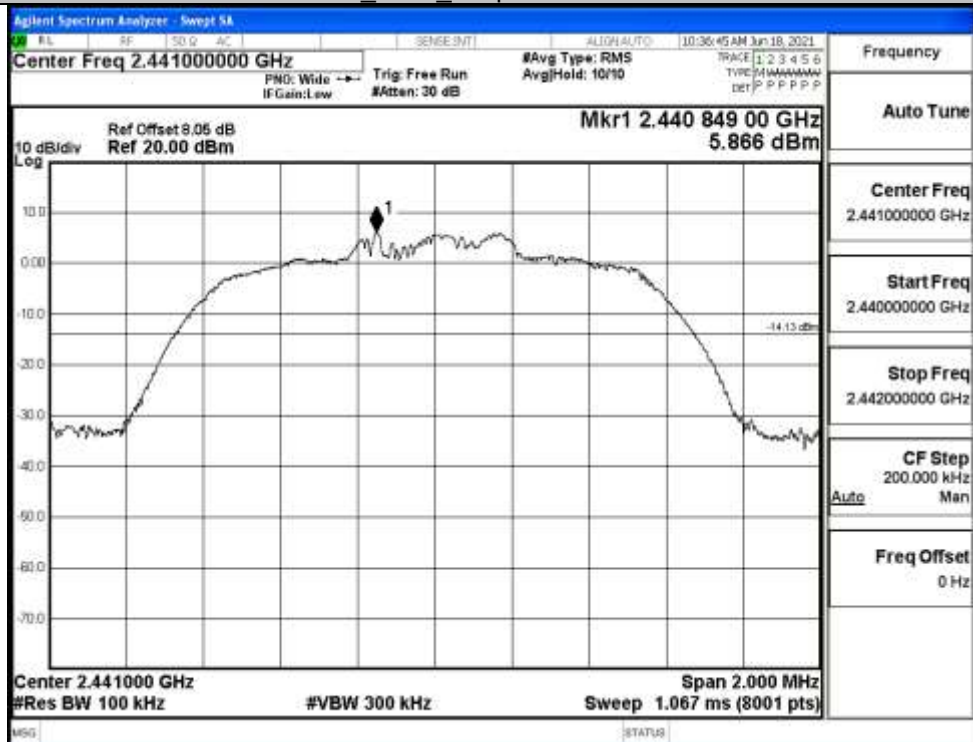
Puw





$\pi$ /4DQPSK\_MCH\_Graphs

Pref



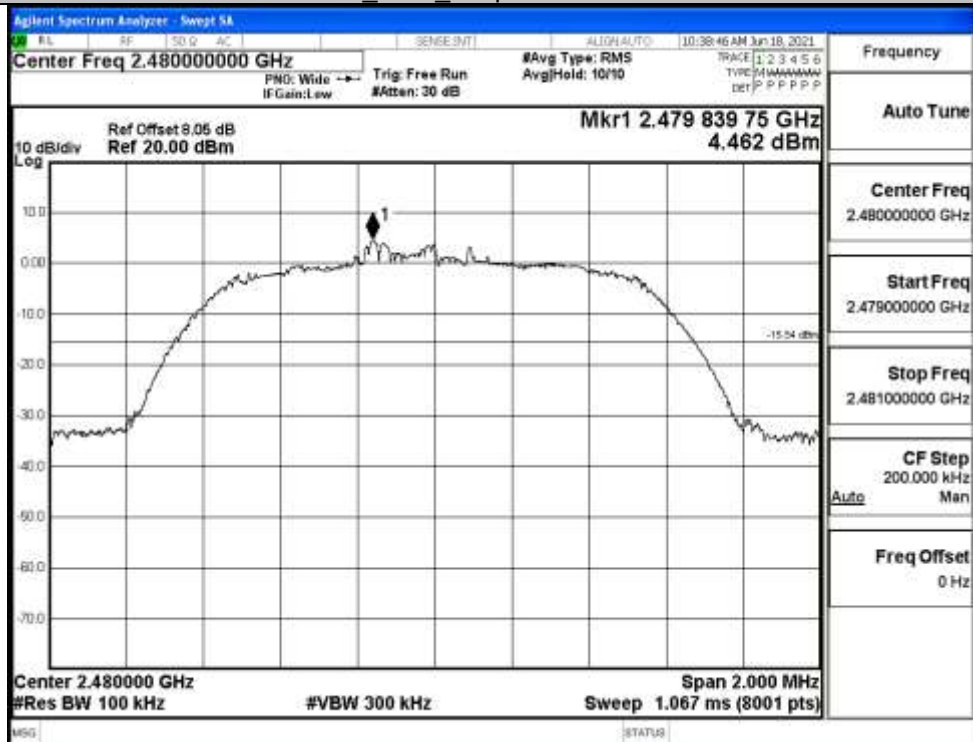
Puw





$\pi/4$ DQPSK\_HCH\_Graphs

Pref

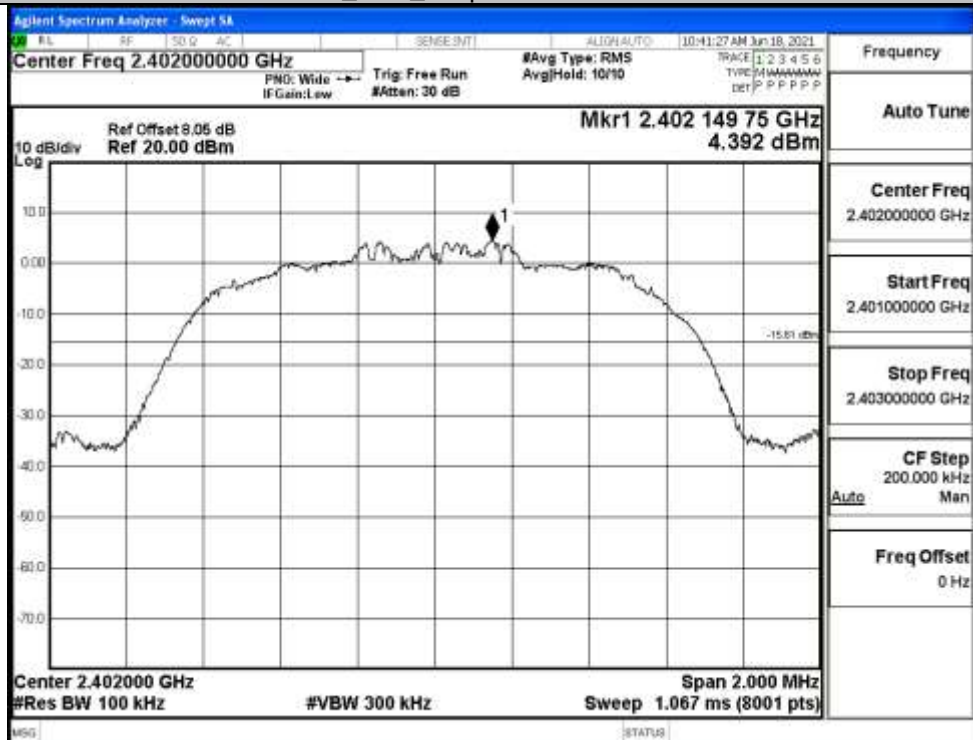


Puw

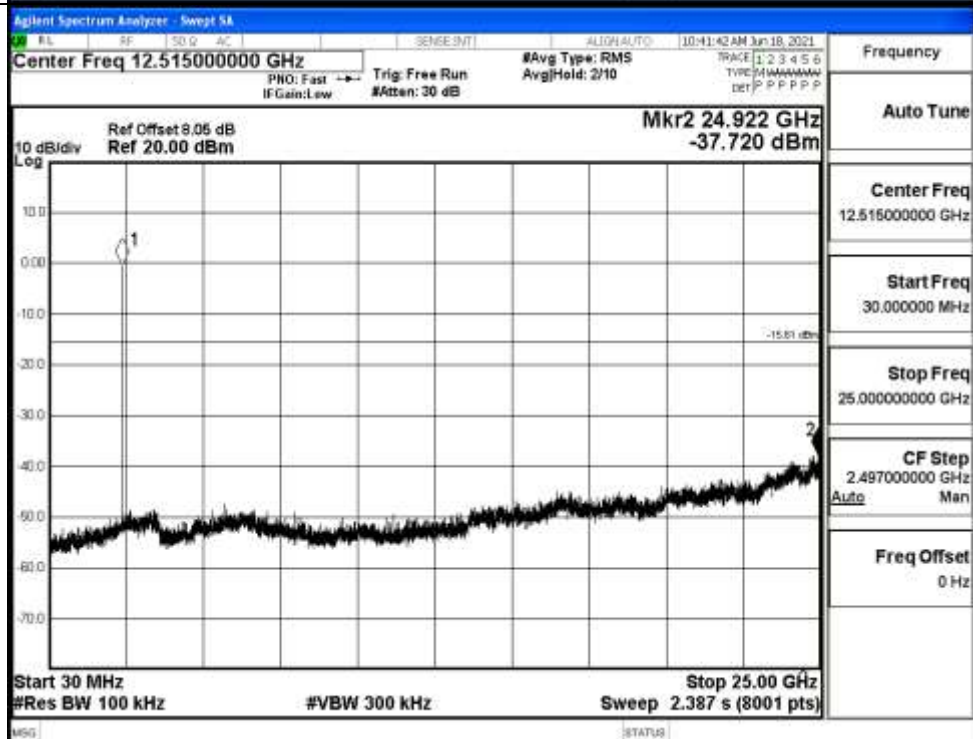


## 8DPSK\_LCH\_Graphs

Pref

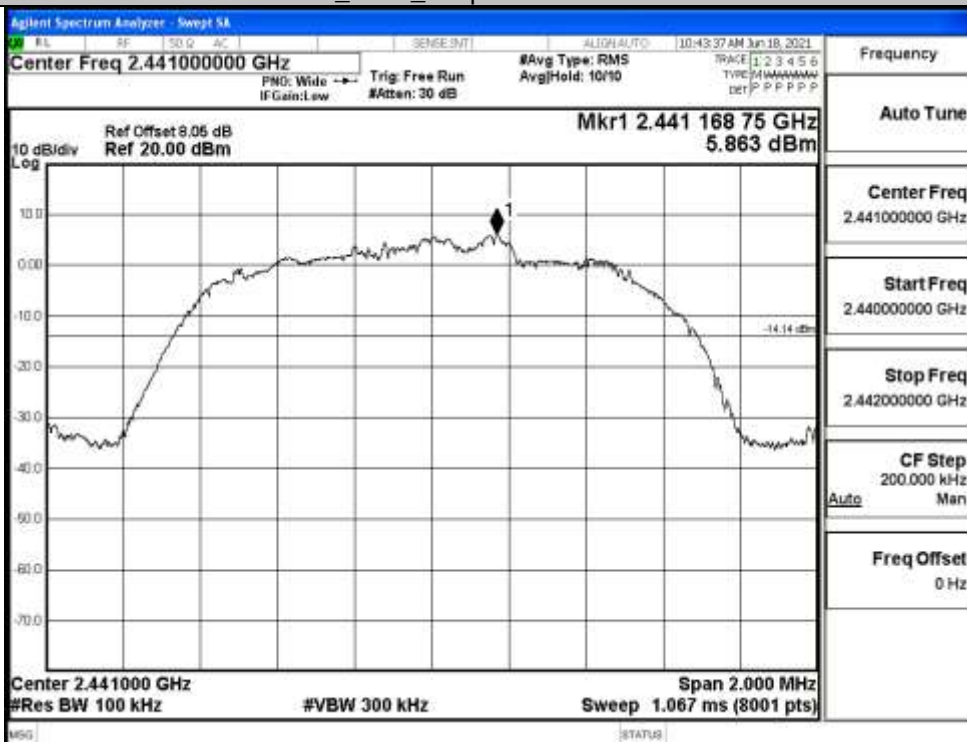


Puw

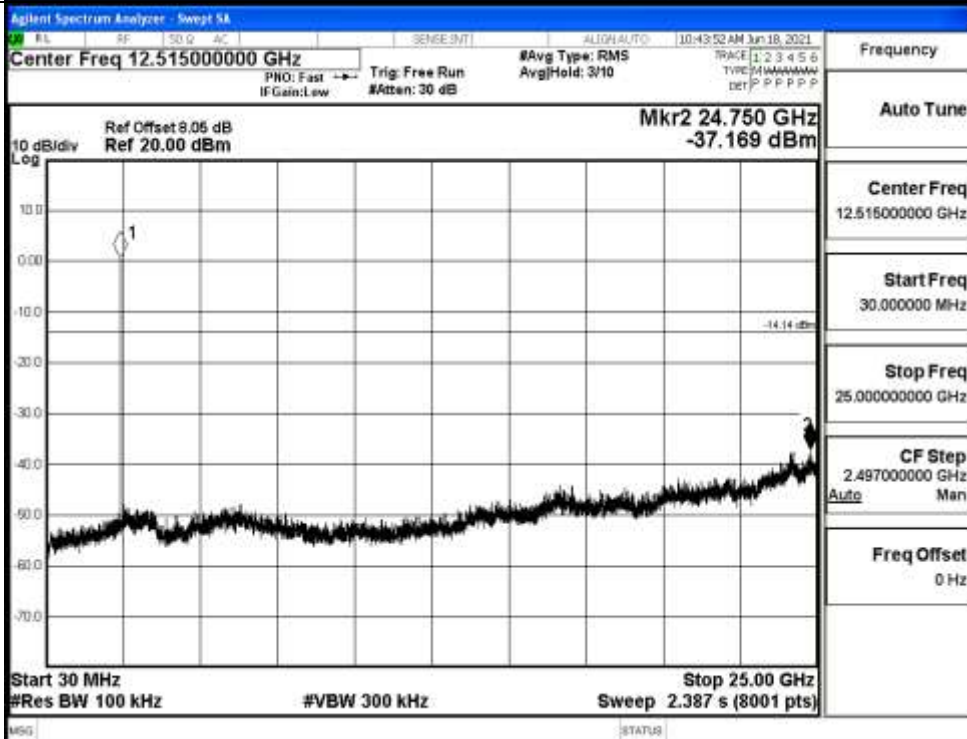


## 8DPSK\_MCH\_Graphs

Pref

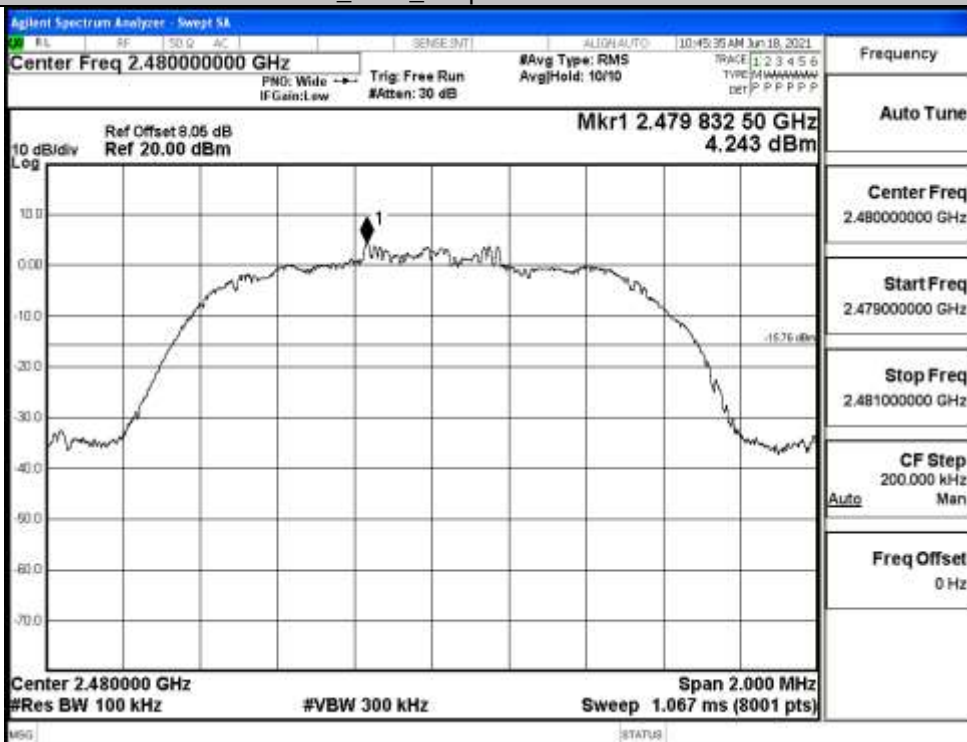


Puw

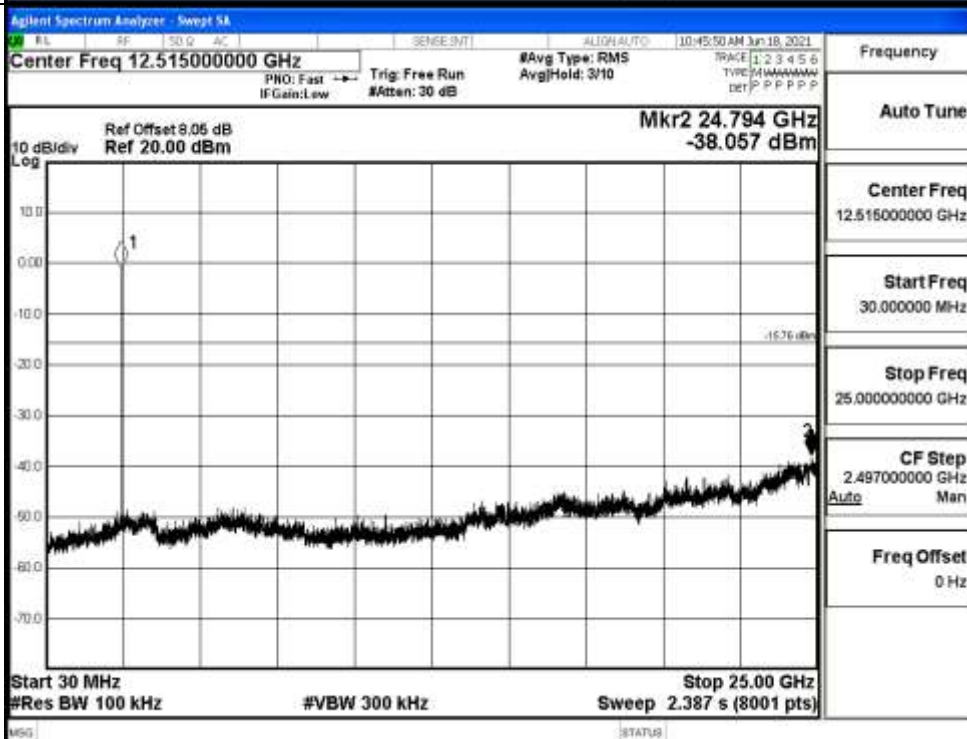


## 8DPSK\_HCH\_Graphs

Pref



Puw

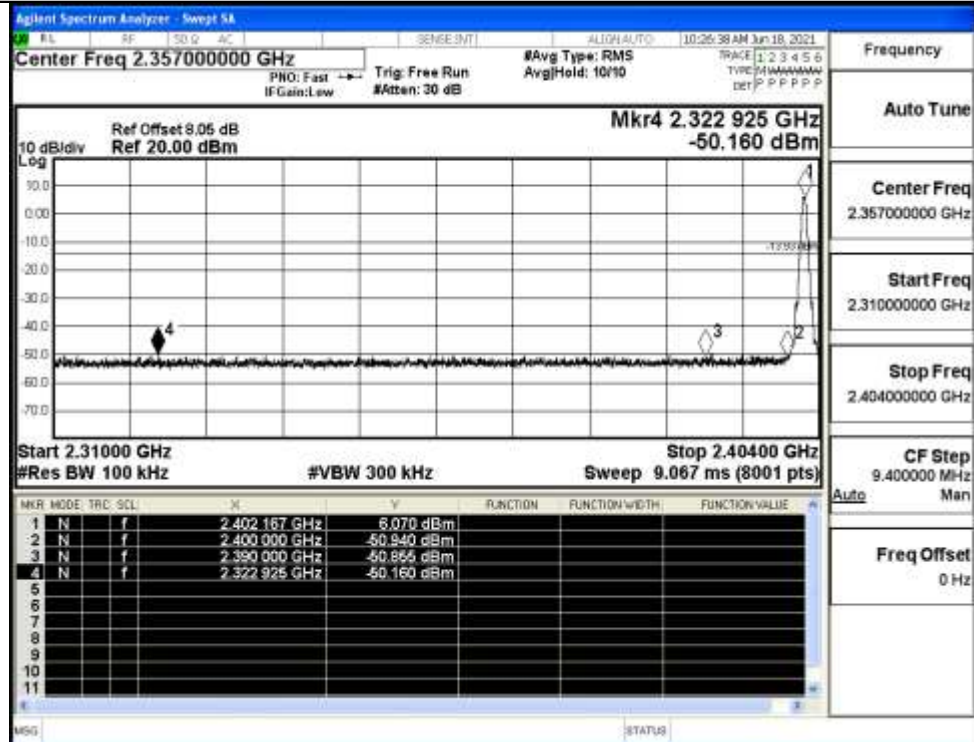


## A.7 Band-edge for RF Conducted Emissions

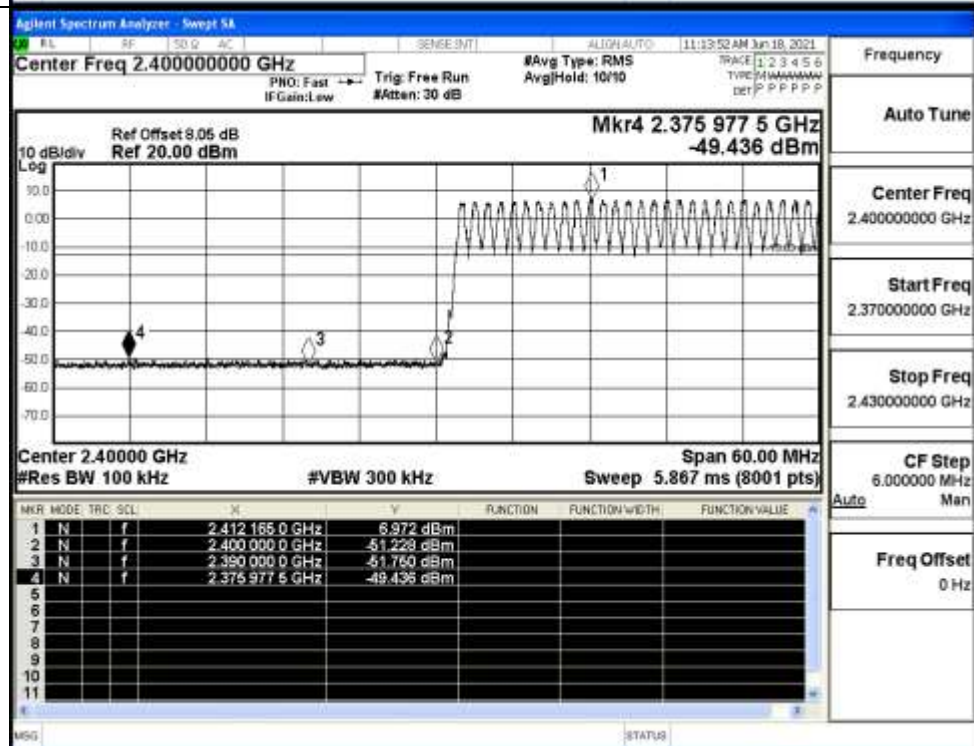
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	6.070	Off	-50.160	-13.93	PASS
			6.972	On	-49.436	-13.03	PASS
	HCH	2480	5.948	Off	-48.500	-14.05	PASS
			4.397	On	-48.332	-15.6	PASS
$\pi/4$ DQPSK	LCH	2402	4.594	Off	-49.515	-15.41	PASS
			5.773	On	-48.565	-14.23	PASS
	HCH	2480	4.370	Off	-49.269	-15.63	PASS
			2.706	On	-48.660	-17.29	PASS
8DPSK	LCH	2402	4.393	Off	-49.494	-15.61	PASS
			5.889	On	-48.363	-14.11	PASS
	HCH	2480	4.612	Off	-48.988	-15.39	PASS
			2.735	On	-48.848	-17.27	PASS

## Test Graphs

GFSK/LCH/No Hop

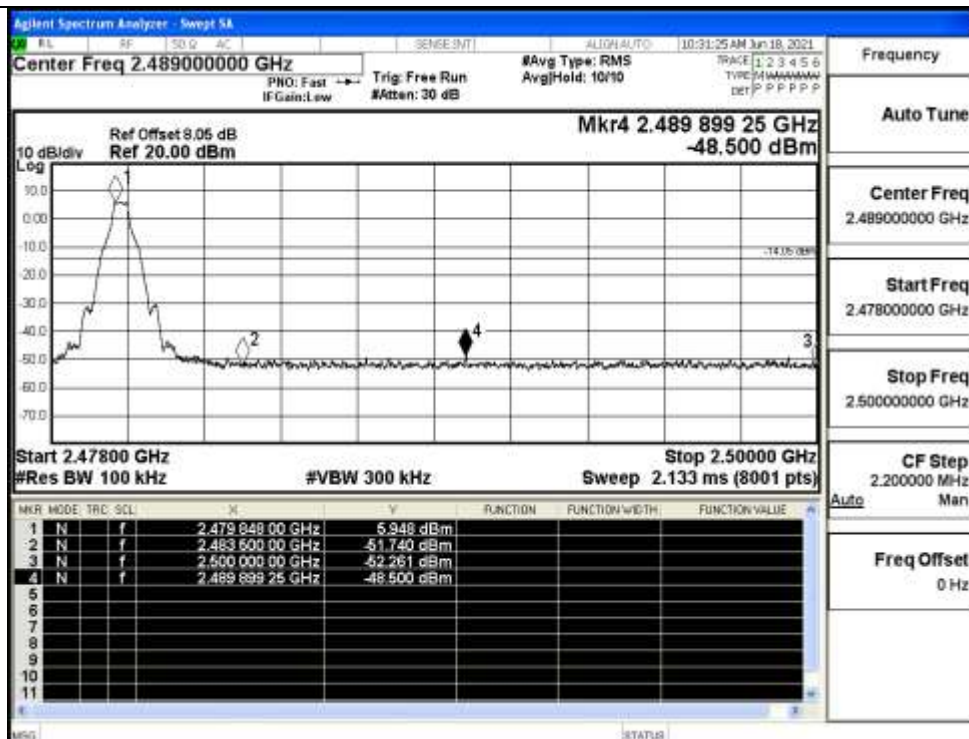


GFSK/LCH/Hop

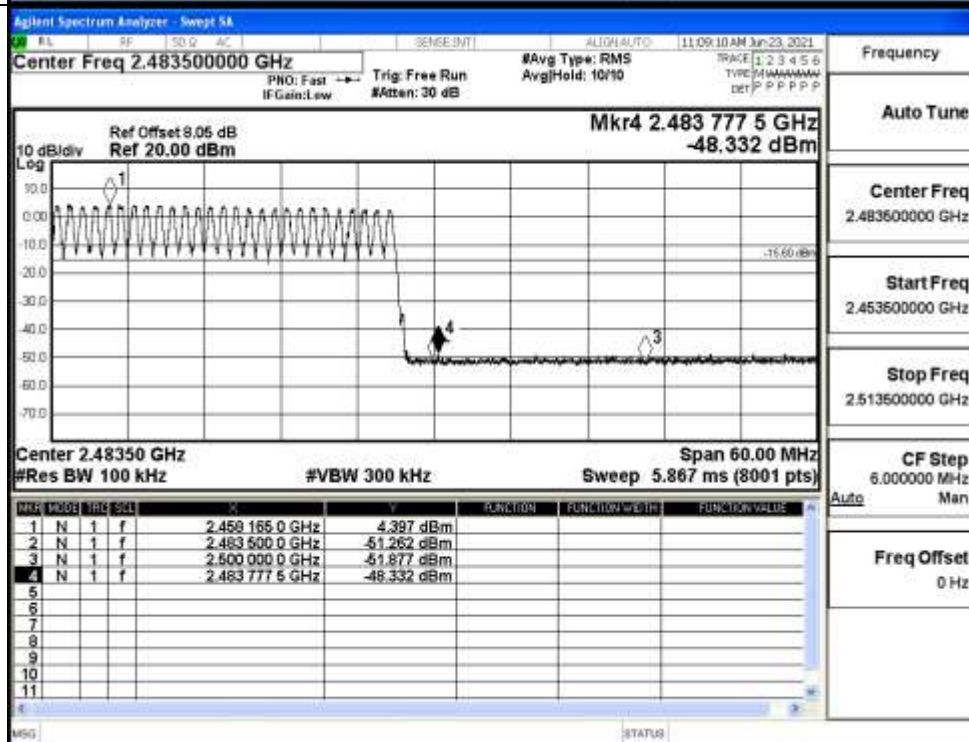




GFSK/HCH/No Hop

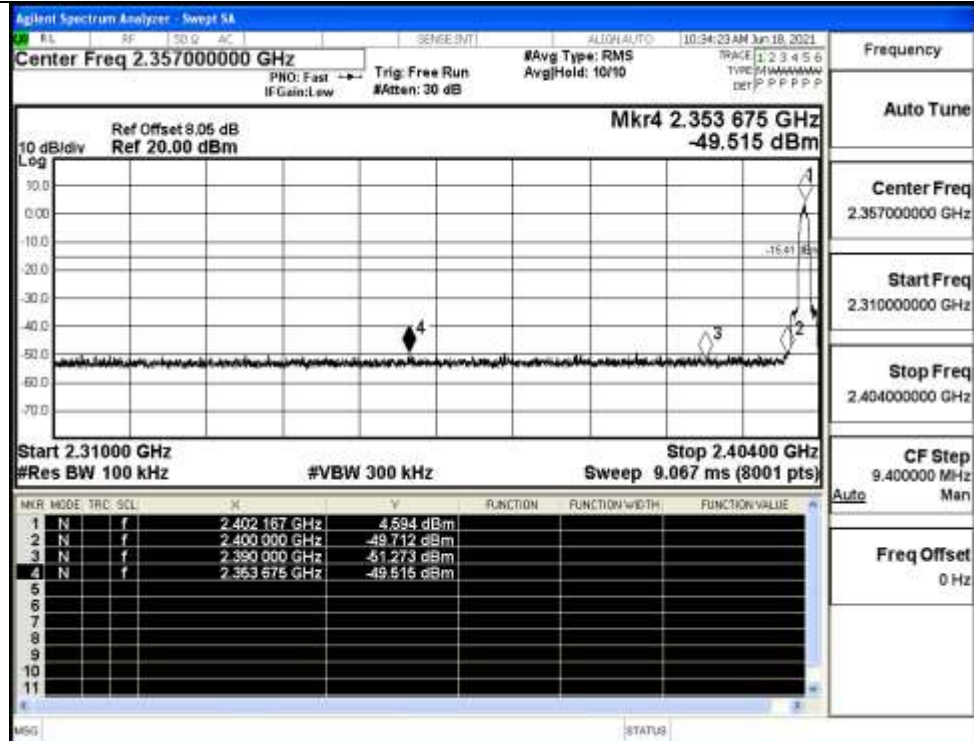


GFSK/HCH/Hop

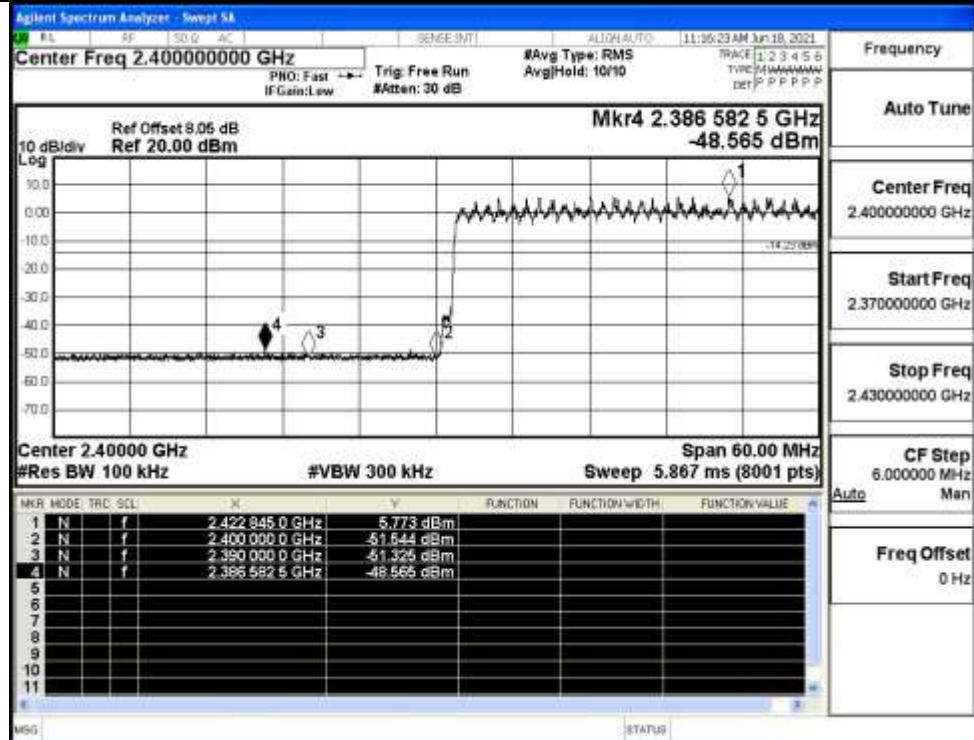




$\pi/4$ DQPSK/LCH/No  
Hop

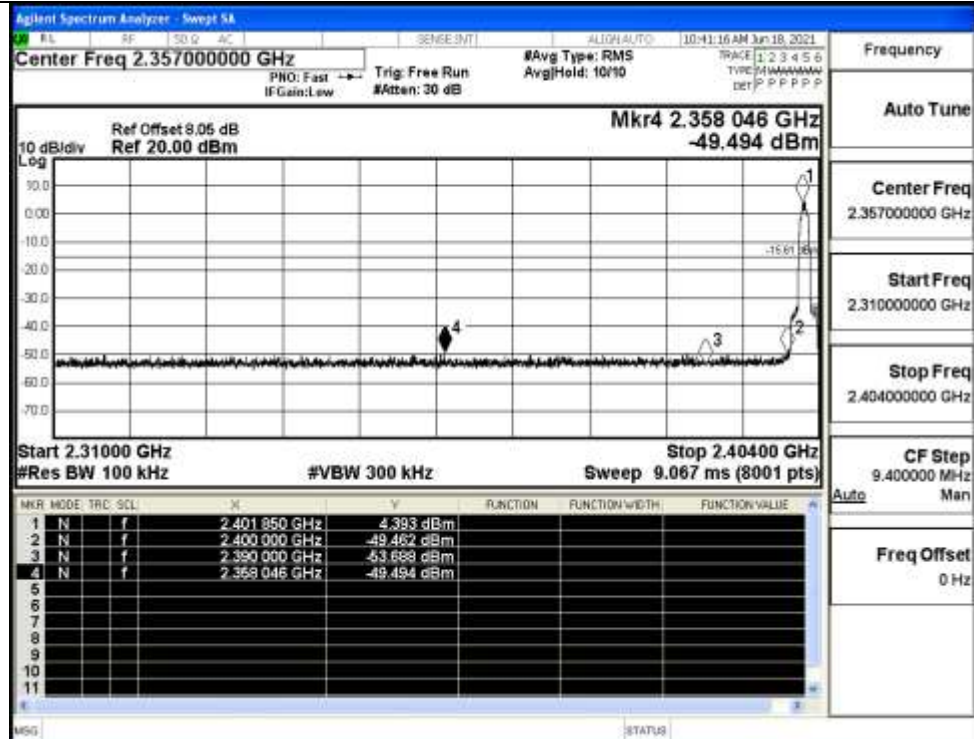


$\pi/4$ DQPSK/LCH/Hop

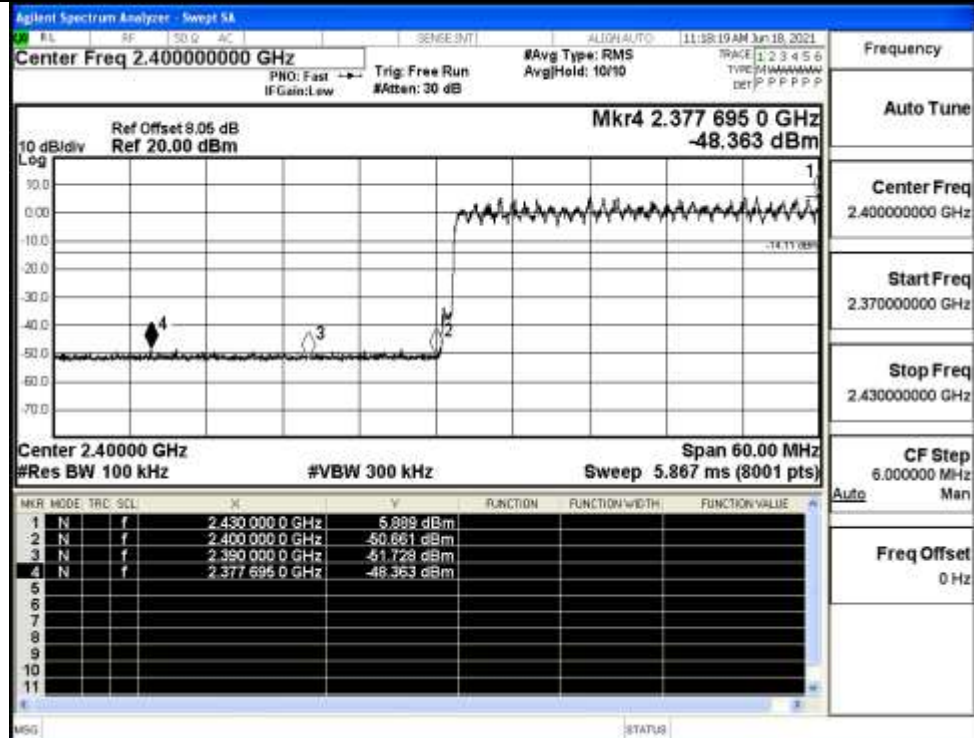


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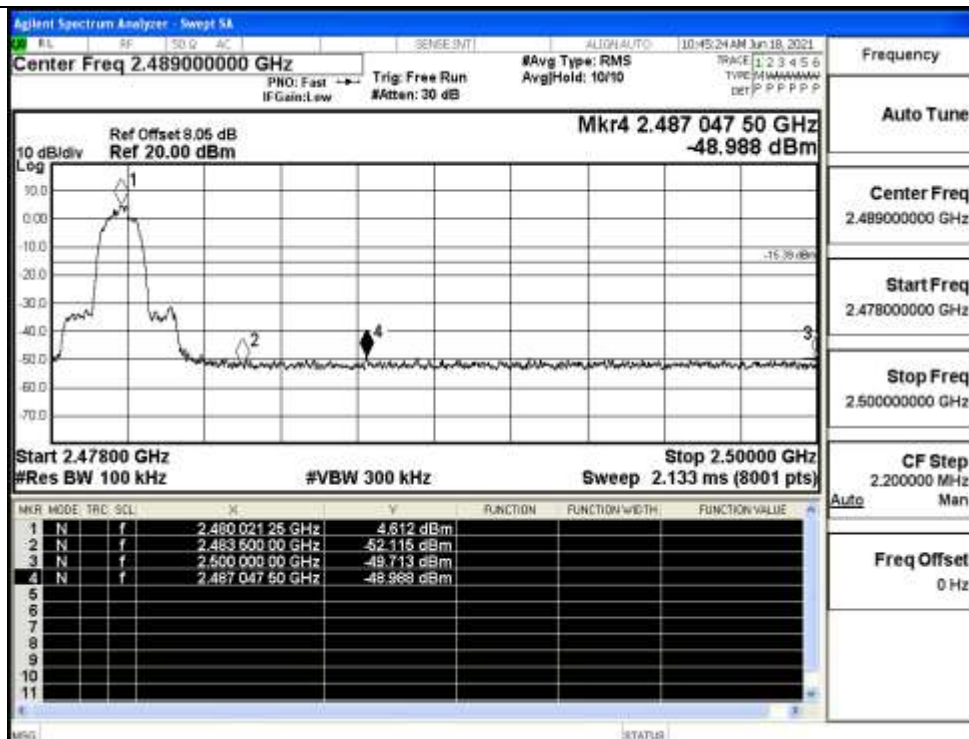
8DPSK/LCH/No Hop



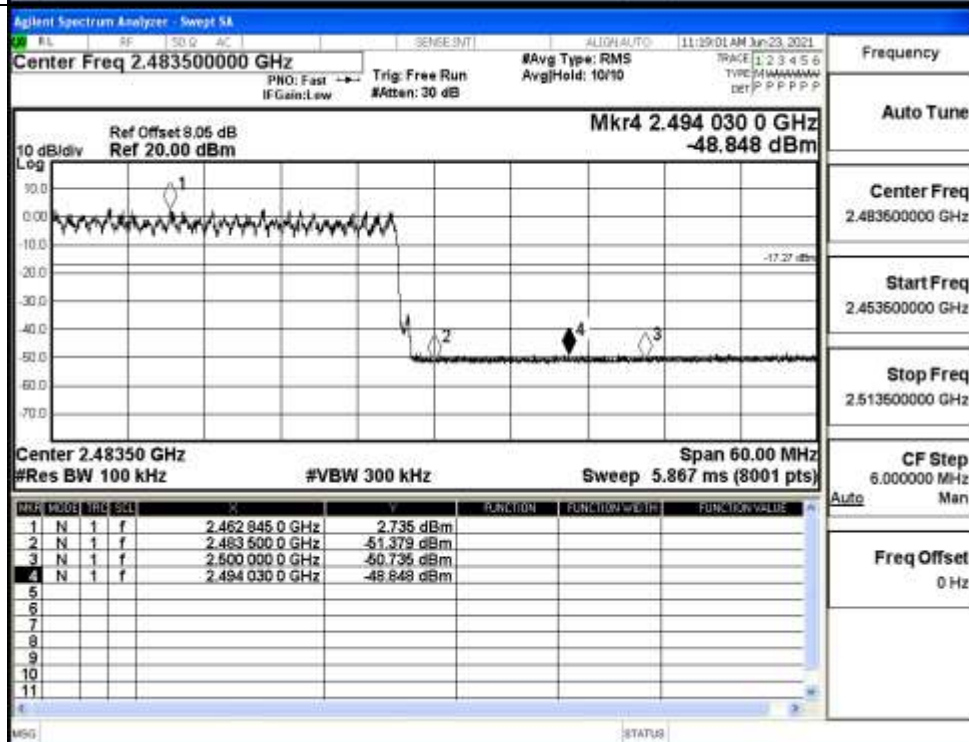
8DPSK/LCH/Hop



8DPSK/HCH/No Hop



8DPSK/HCH/Hop

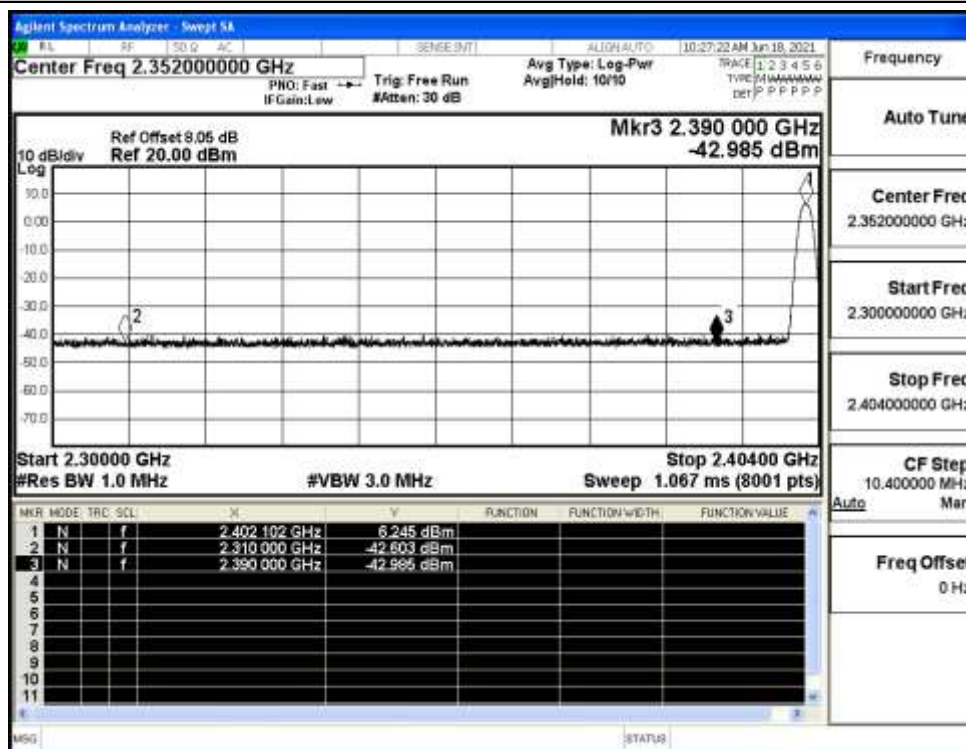


## A.8 Restrict-band band-edge measurements

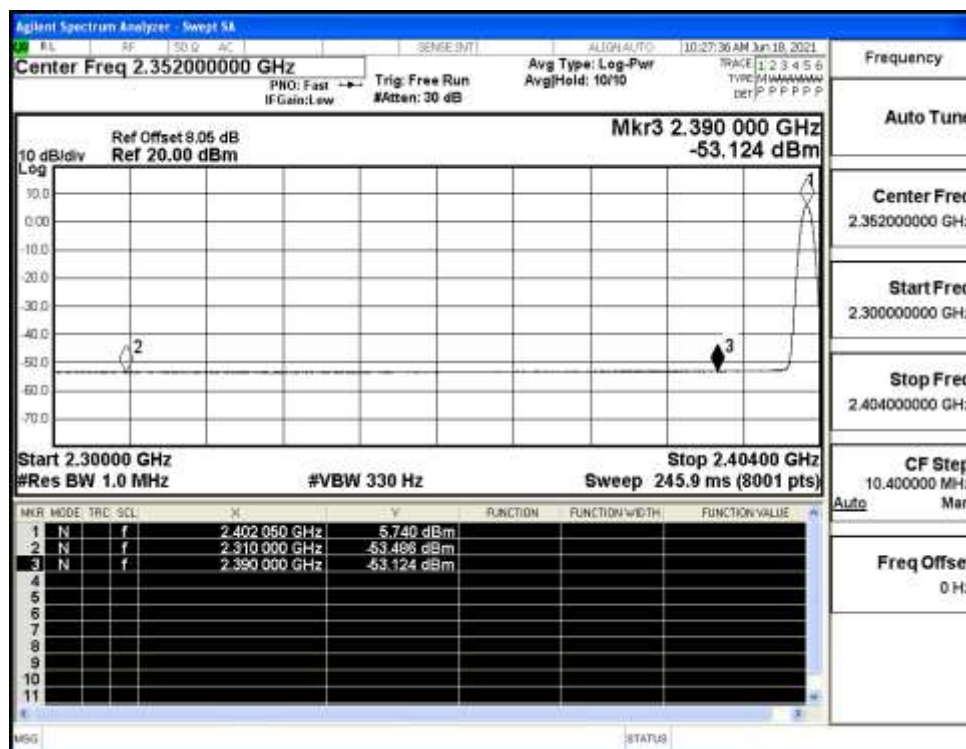
Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-42.60	2.13	0	54.76	PEAK	74	PASS
	Off	2310.0	-53.49	2.13	0	43.87	AV	54	PASS
	Off	2390.0	-42.99	2.13	0	54.37	PEAK	74	PASS
	Off	2390.0	-53.12	2.13	0	44.24	AV	54	PASS
	Off	2483.5	-42.11	2.13	0	55.25	PEAK	74	PASS
	Off	2483.5	-52.19	2.13	0	45.17	AV	54	PASS
	Off	2500.0	-41.57	2.13	0	55.79	PEAK	74	PASS
	Off	2500.0	-52.35	2.13	0	45.01	AV	54	PASS
$\pi/4$ DQPSK	Off	2310.0	-42.90	2.13	0	54.46	PEAK	74	PASS
	Off	2310.0	-53.49	2.13	0	43.87	AV	54	PASS
	Off	2390.0	-41.35	2.13	0	56.01	PEAK	74	PASS
	Off	2390.0	-53.02	2.13	0	44.34	AV	54	PASS
	Off	2483.5	-42.58	2.13	0	54.78	PEAK	74	PASS
	Off	2483.5	-52.38	2.13	0	44.98	AV	54	PASS
	Off	2500.0	-42.17	2.13	0	55.19	PEAK	74	PASS
	Off	2500.0	-52.39	2.13	0	44.97	AV	54	PASS
8DPSK	Off	2310.0	-43.70	2.13	0	53.66	PEAK	74	PASS
	Off	2310.0	-53.43	2.13	0	43.93	AV	54	PASS
	Off	2390.0	-42.64	2.13	0	54.72	PEAK	74	PASS
	Off	2390.0	-53.05	2.13	0	44.31	AV	54	PASS
	Off	2483.5	-42.55	2.13	0	54.81	PEAK	74	PASS
	Off	2483.5	-52.18	2.13	0	45.18	AV	54	PASS
	Off	2500.0	-42.95	2.13	0	54.41	PEAK	74	PASS
	Off	2500.0	-52.43	2.13	0	44.93	AV	54	PASS



## Restrict-band band-edge measurements\_Hopping Off\_GFSK\_PEAK (Low Channel)

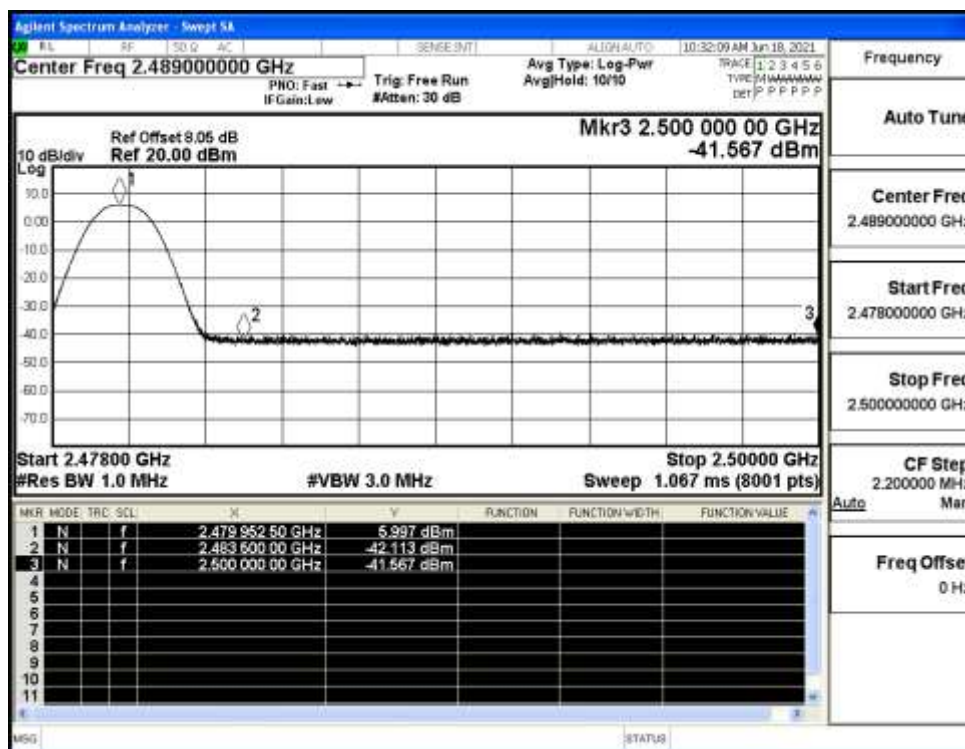


## Restrict-band band-edge measurements\_Hopping Off\_GFSK\_Average (Low Channel)

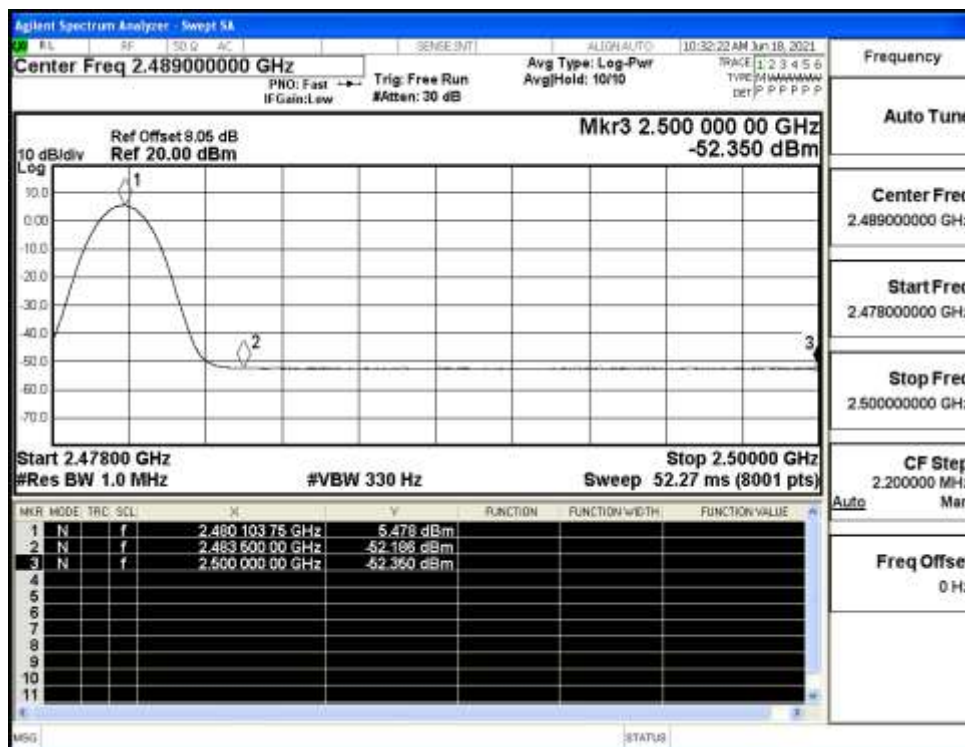


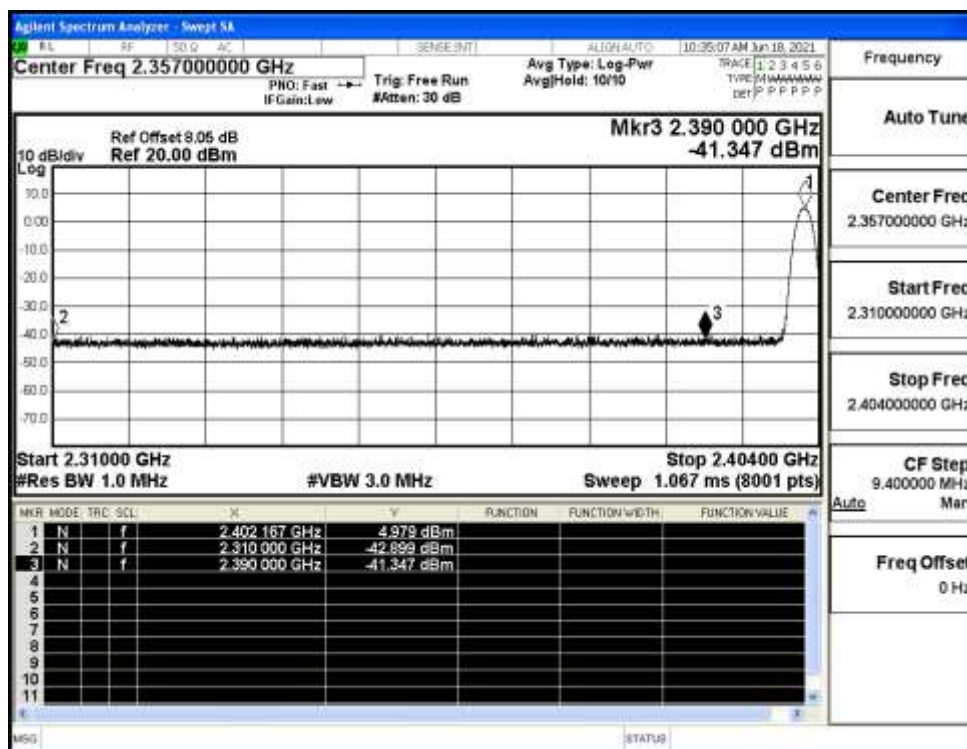
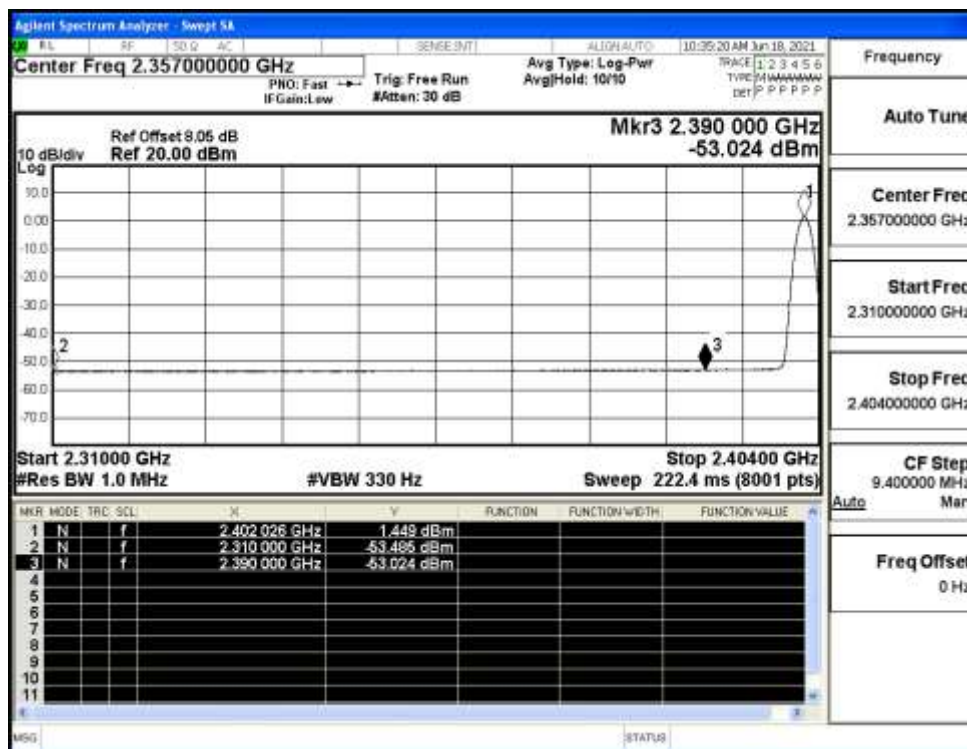


## Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_PEAK (High Channel)

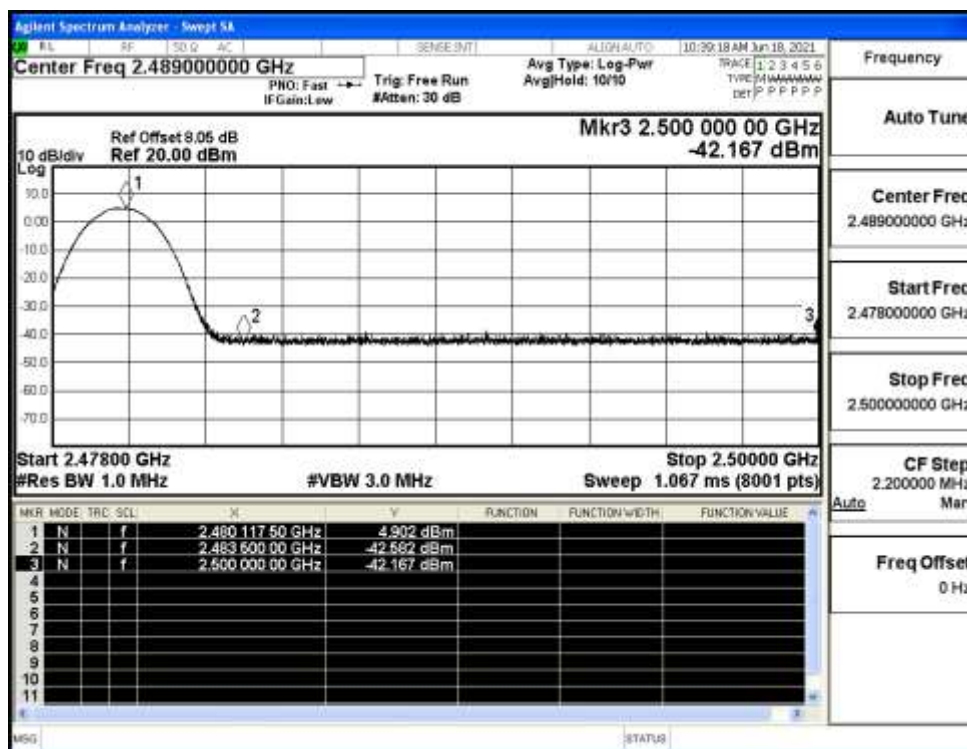


## Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (High Channel)

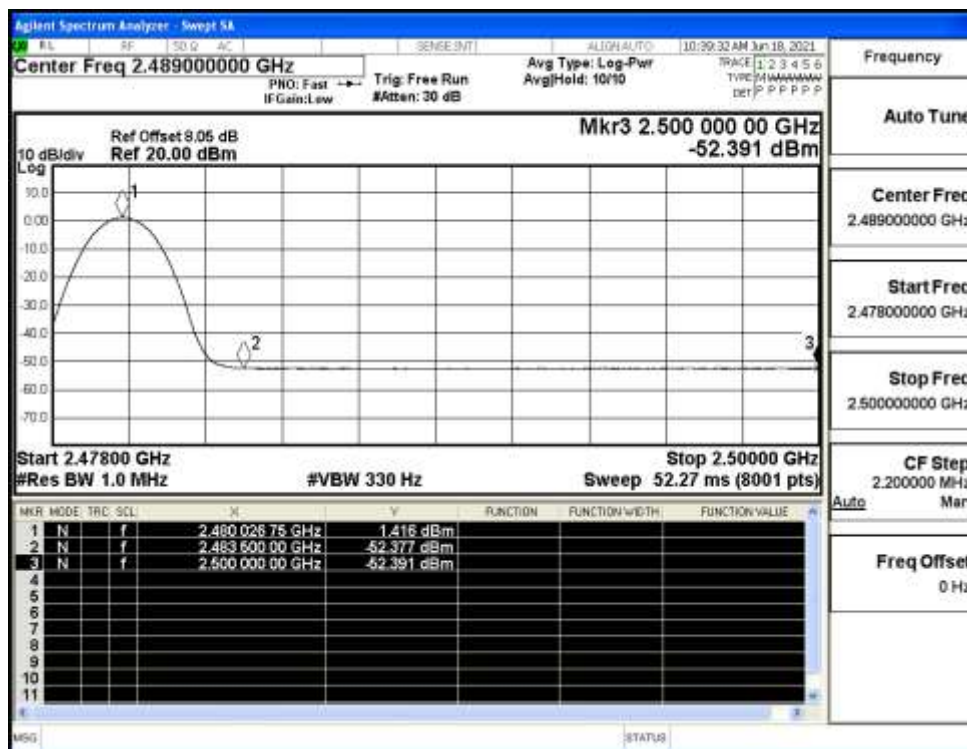


Restrict-band band-edge measurements\_Hopping Off  $\pi/4$ -DQPSK\_PEAK (Low Channel)Restrict-band band-edge measurements\_Hopping Off  $\pi/4$ -DQPSK\_Average (Low Channel)

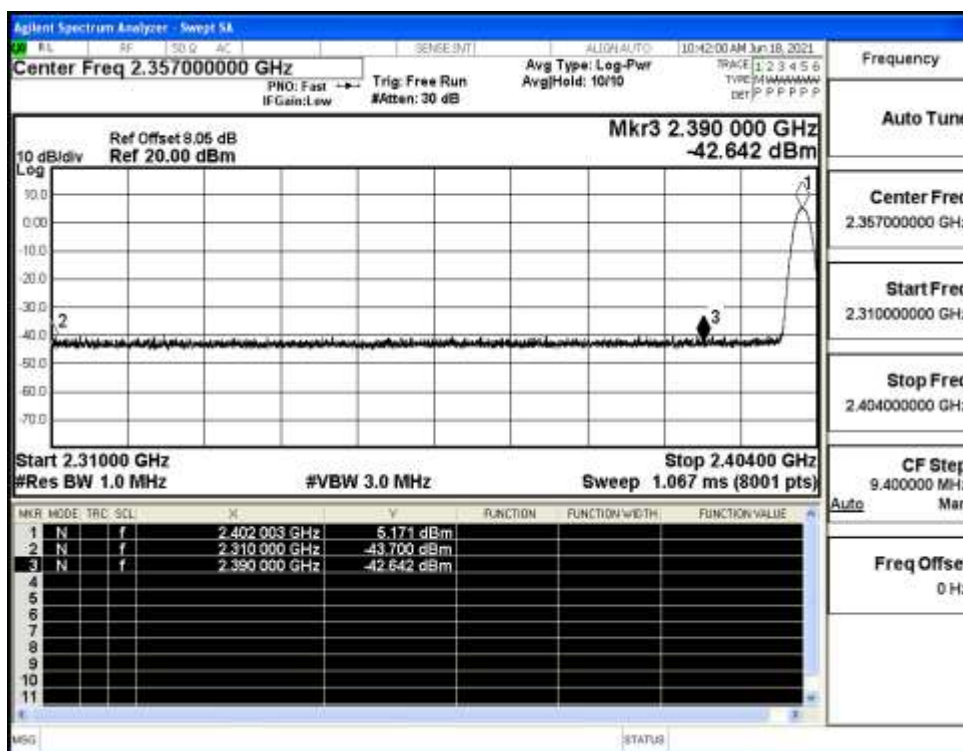
## Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (High Channel)



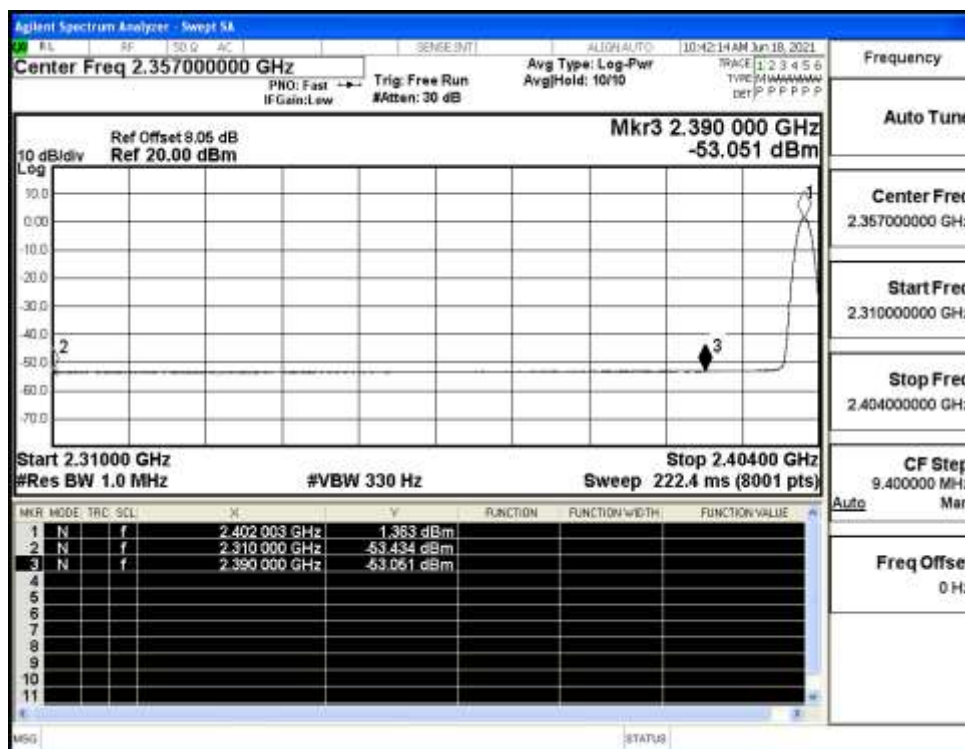
## Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (High Channel)



## Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_PEAK (Low Channel)

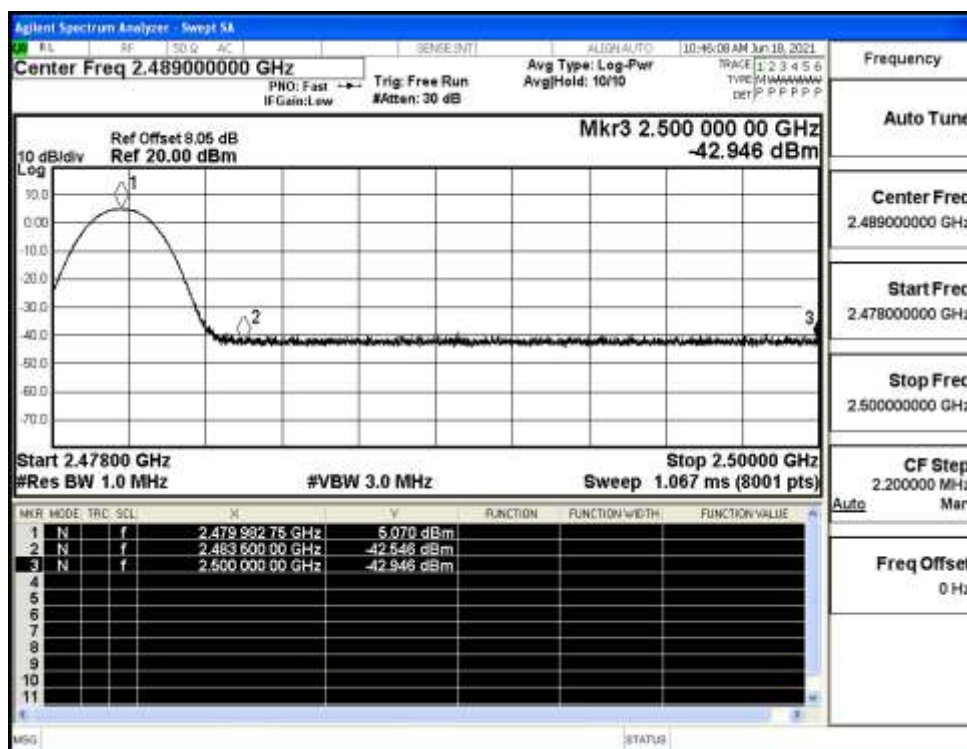


## Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_Average (Low Channel)





## Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_PEAK (High Channel)



## Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_Average (High Channel)

