

Appendix A

RF Test Data for BT V5.0(BDR/EDR) (Conducted Measurement) Product Name: BRAZEN PANTHER / PRODIGY 2.1 BLUETOOTH SURROUND SOUND GAMING CHAIR

Trade Mark: BRAZEN

Test Model: BX-311

Environmental Conditions

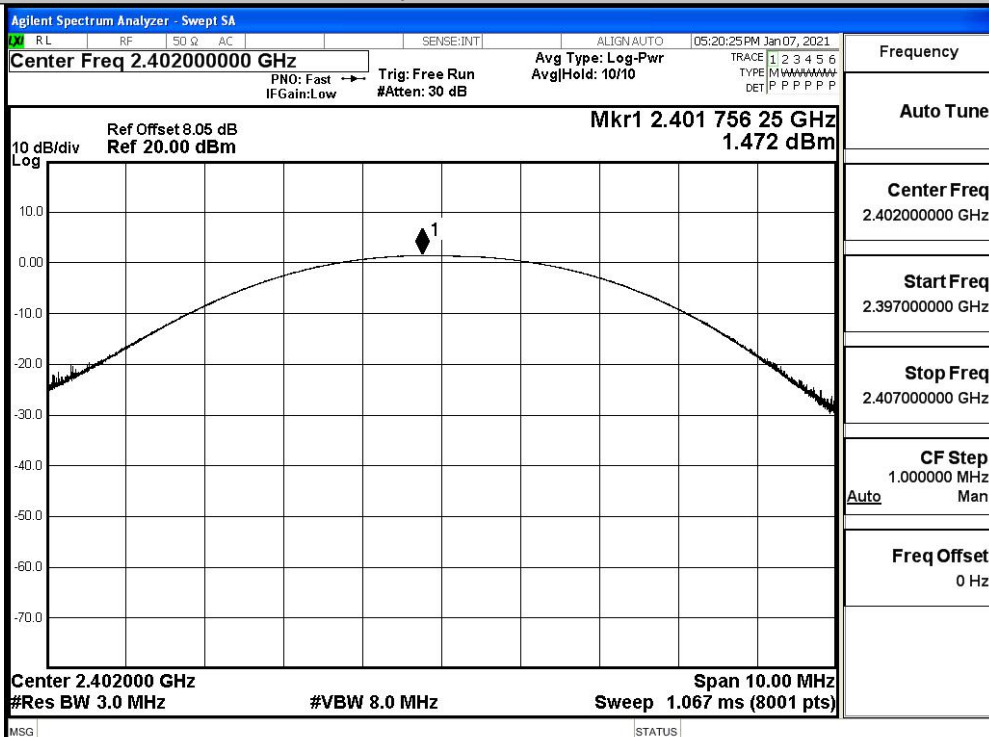
Temperature:	24.6 ° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Ben Jin
Supervised by:	Li Huan

A.1 Maxmum Conducted Peak Output Power

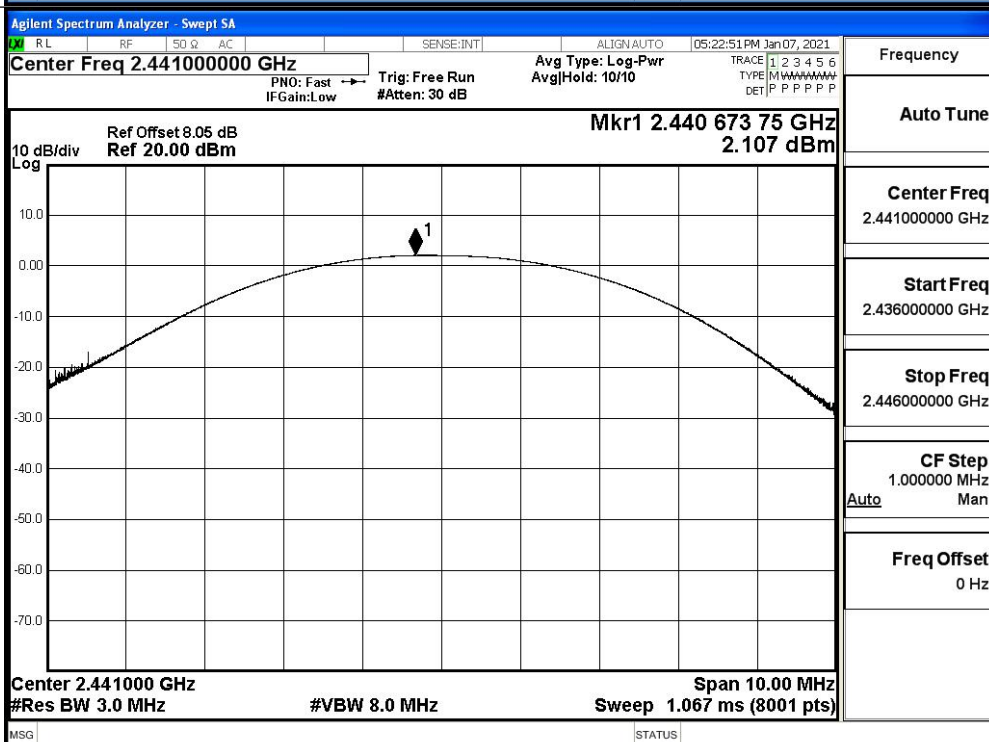
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	1.472	21	PASS
	MCH	2.107	21	PASS
	HCH	2.000	21	PASS
$\pi/4$ DQPSK	LCH	2.180	21	PASS
	MCH	2.845	21	PASS
	HCH	2.749	21	PASS

Test Graphs

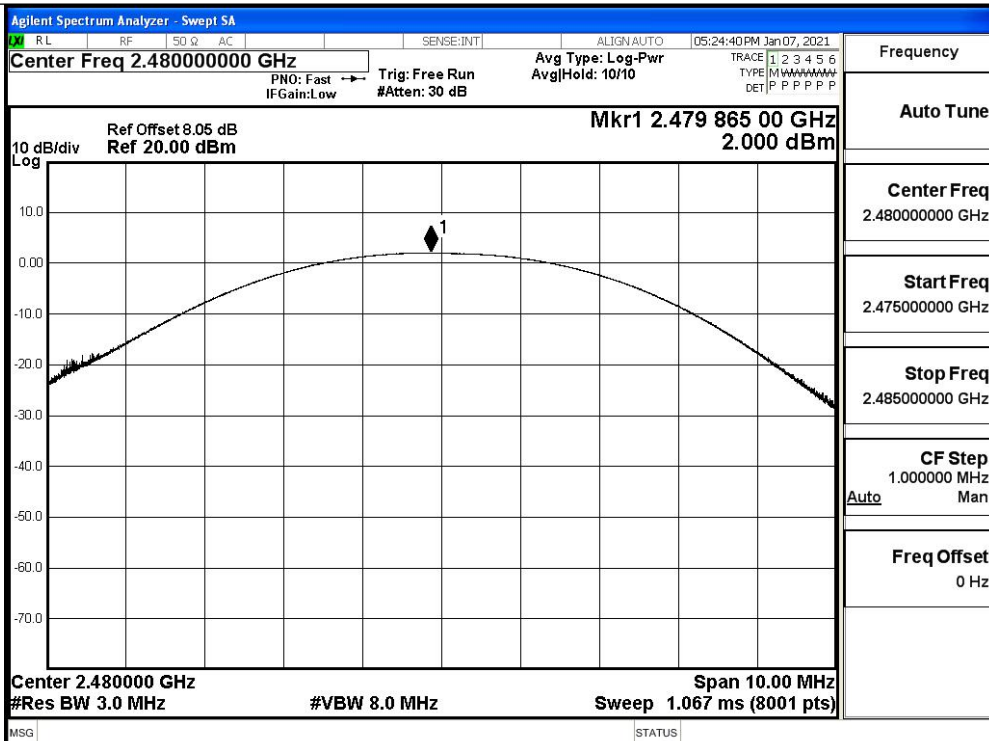
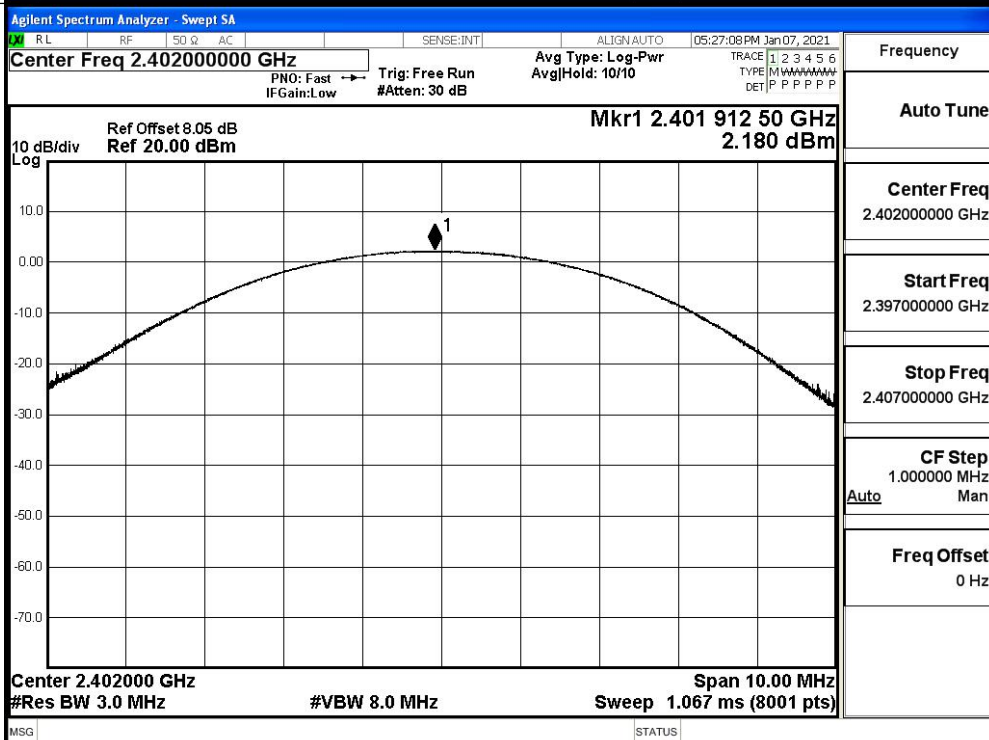
GFSK/LCH

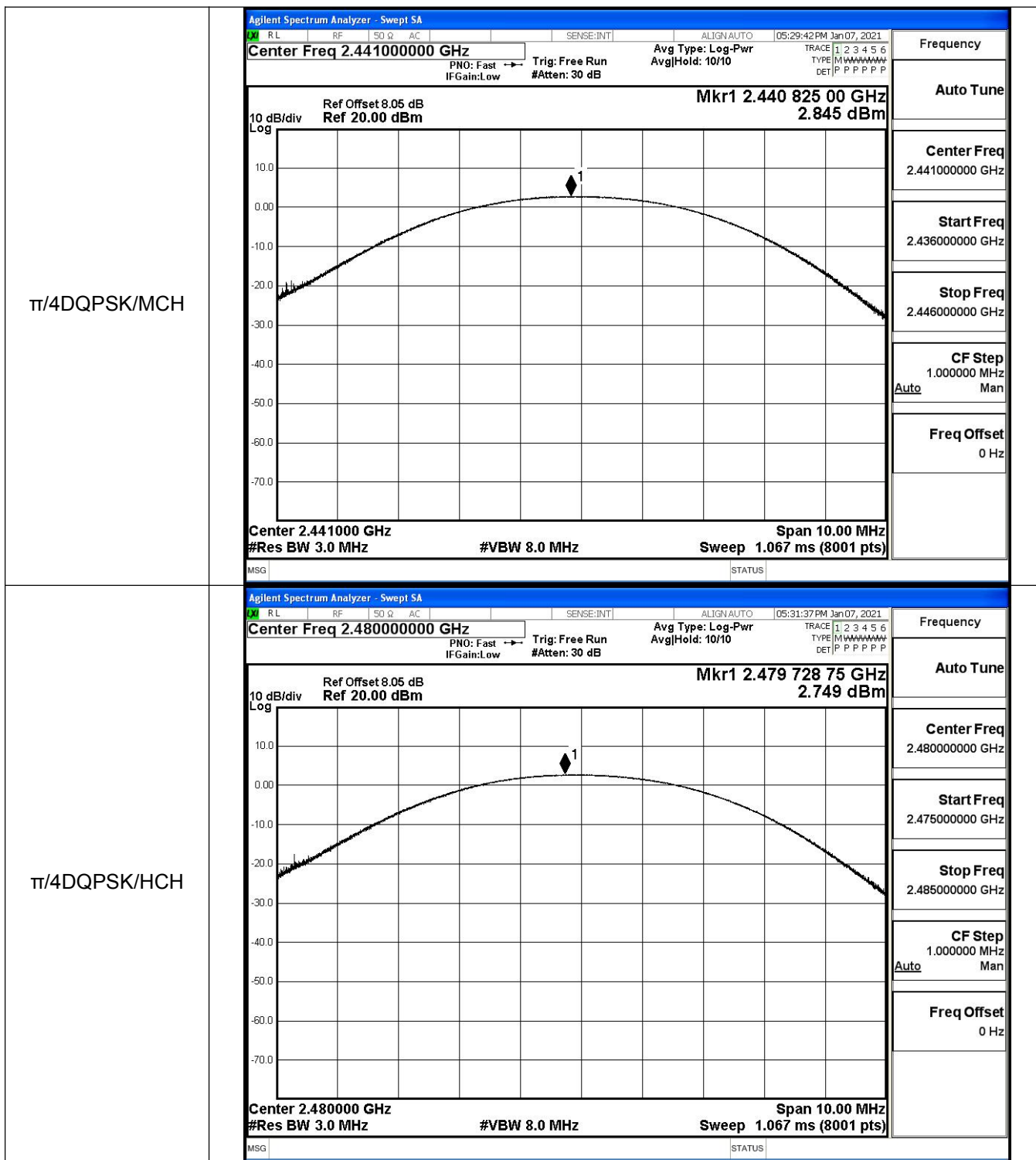


GFSK/MCH



GFSK/HCH

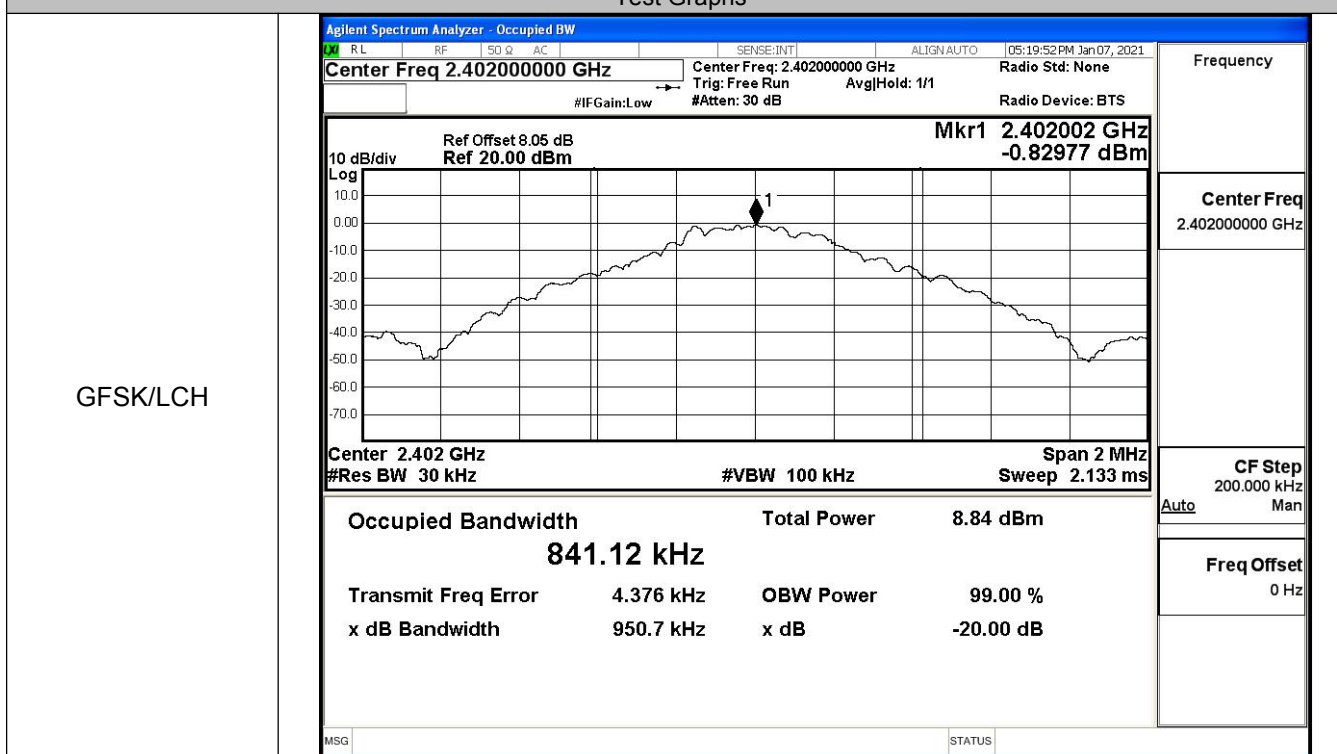
 π /4DQPSK/LCH



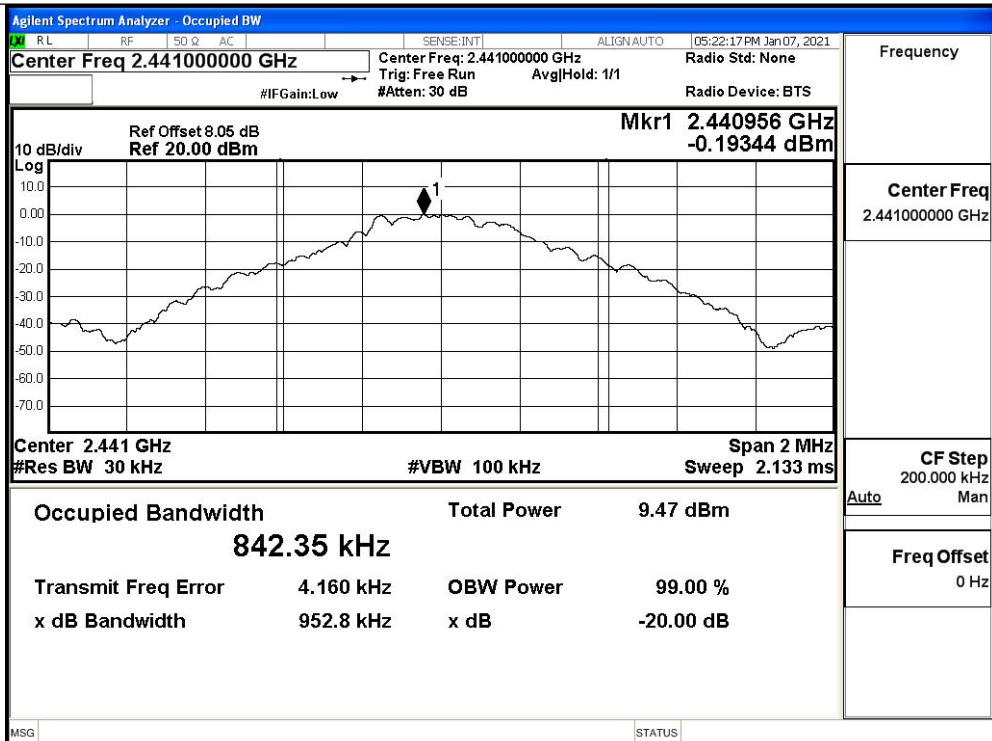
A.2 20dB Bandwidth

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.9507	Not Specified	PASS
	MCH	0.9528	Not Specified	PASS
	HCH	0.9521	Not Specified	PASS
$\pi/4$ DQPSK	LCH	1.309	Not Specified	PASS
	MCH	1.311	Not Specified	PASS
	HCH	1.311	Not Specified	PASS

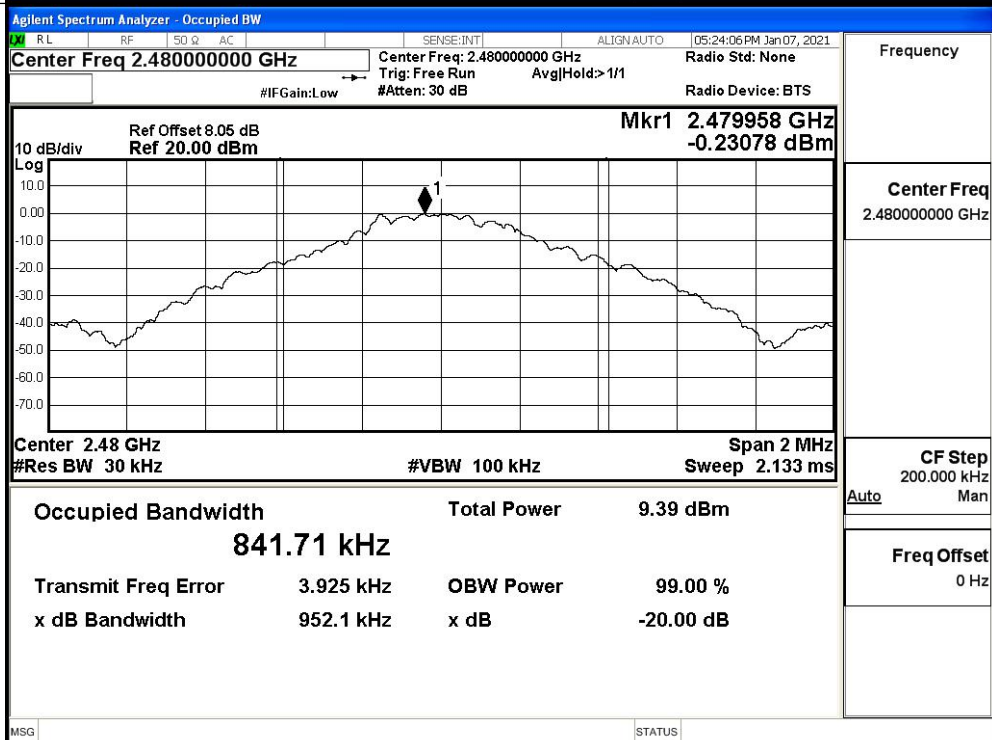
Test Graphs

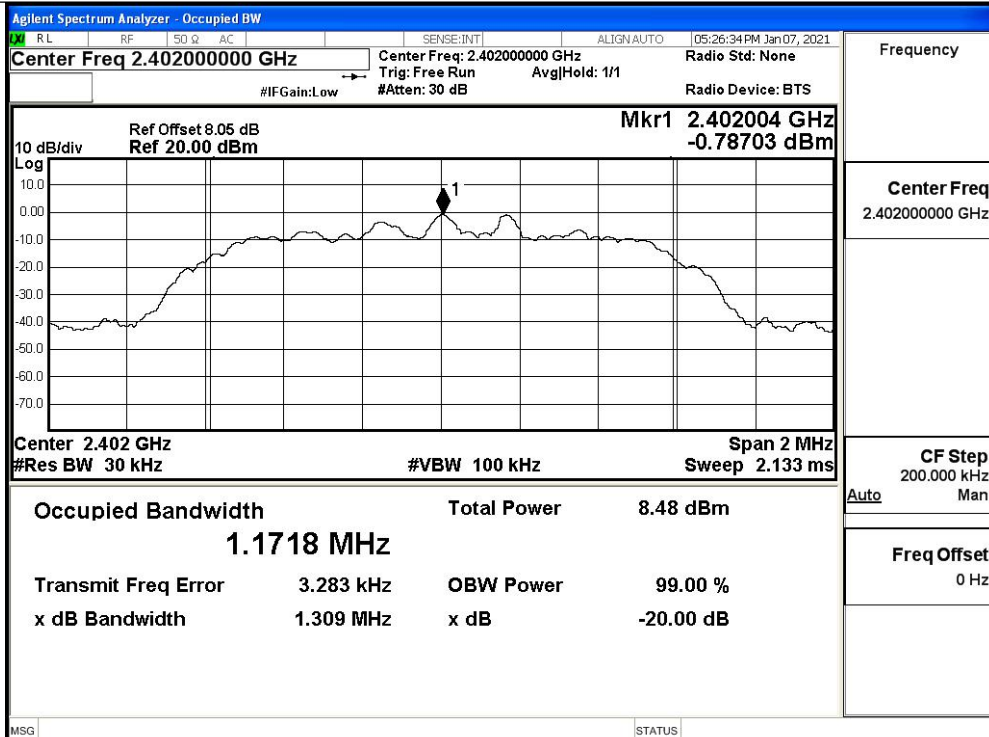
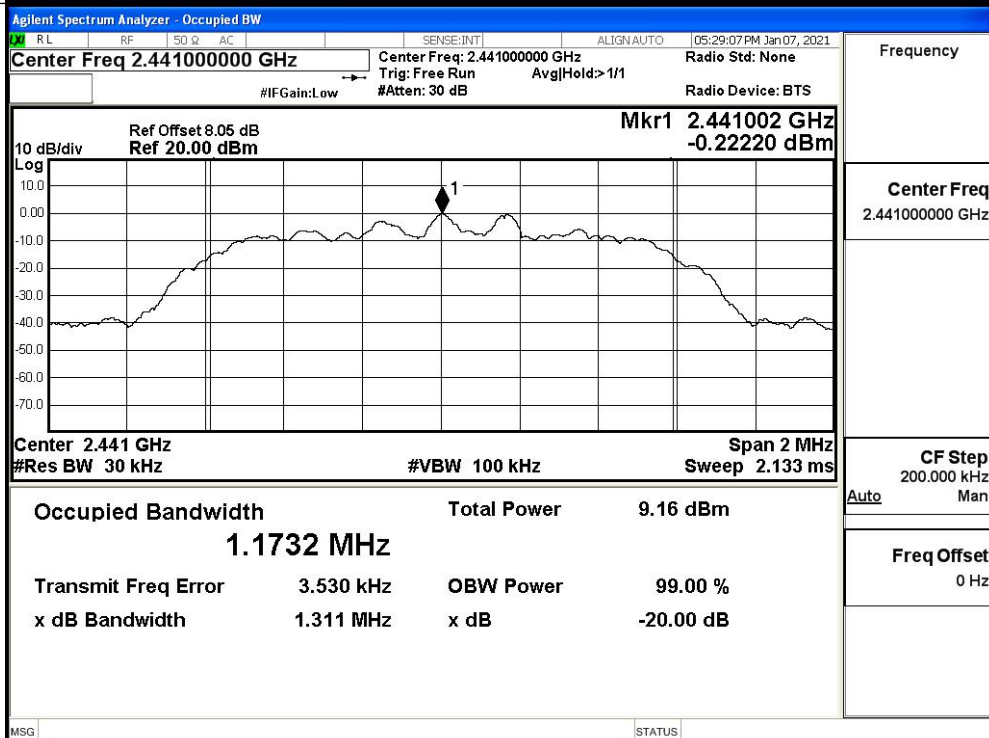


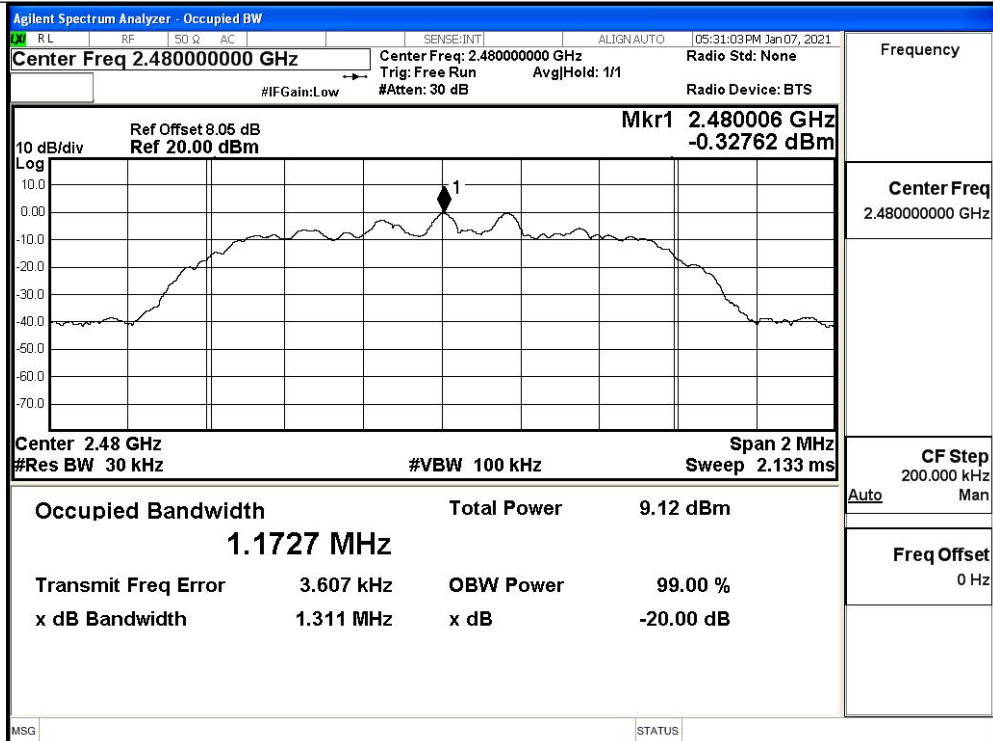
GFSK/MCH



GFSK/HCH



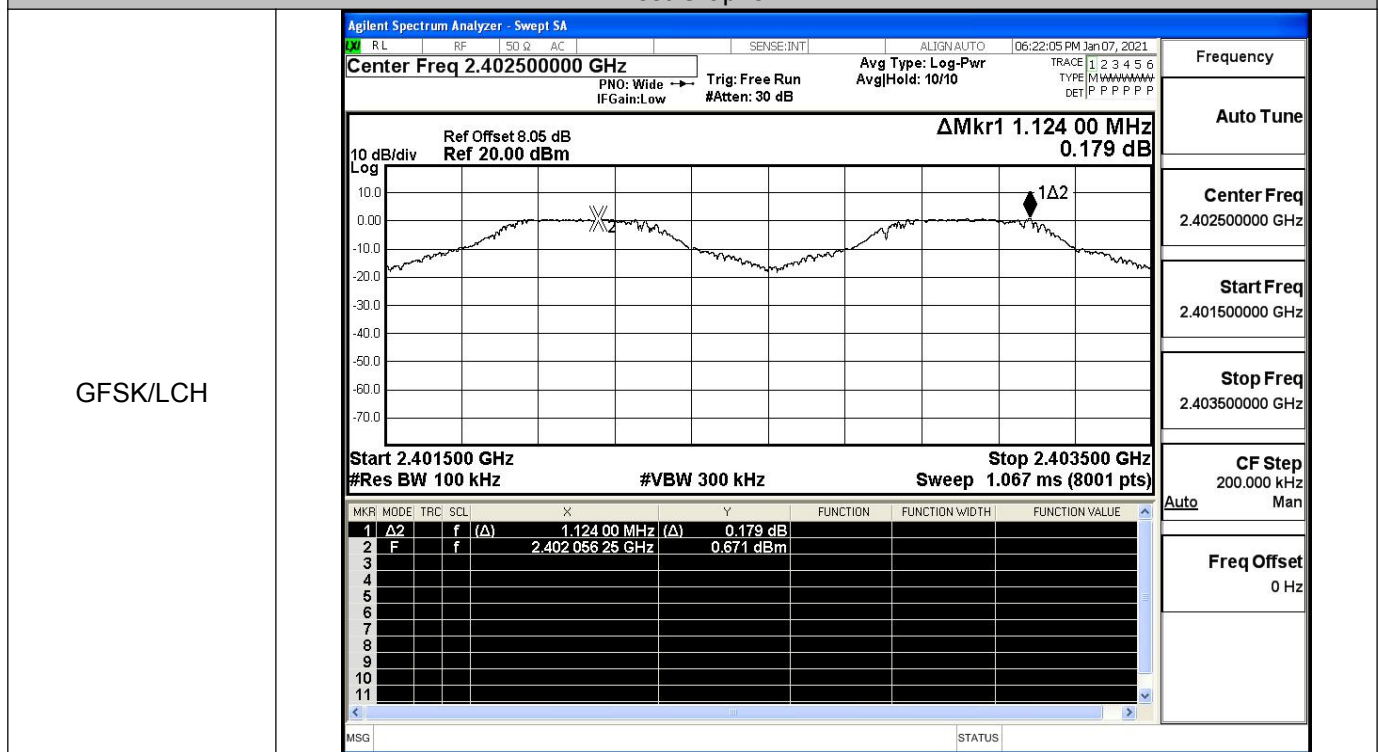
$\pi/4$ DQPSK/LCH $\pi/4$ DQPSK/MCH

$\pi/4$ DQPSK/HCH

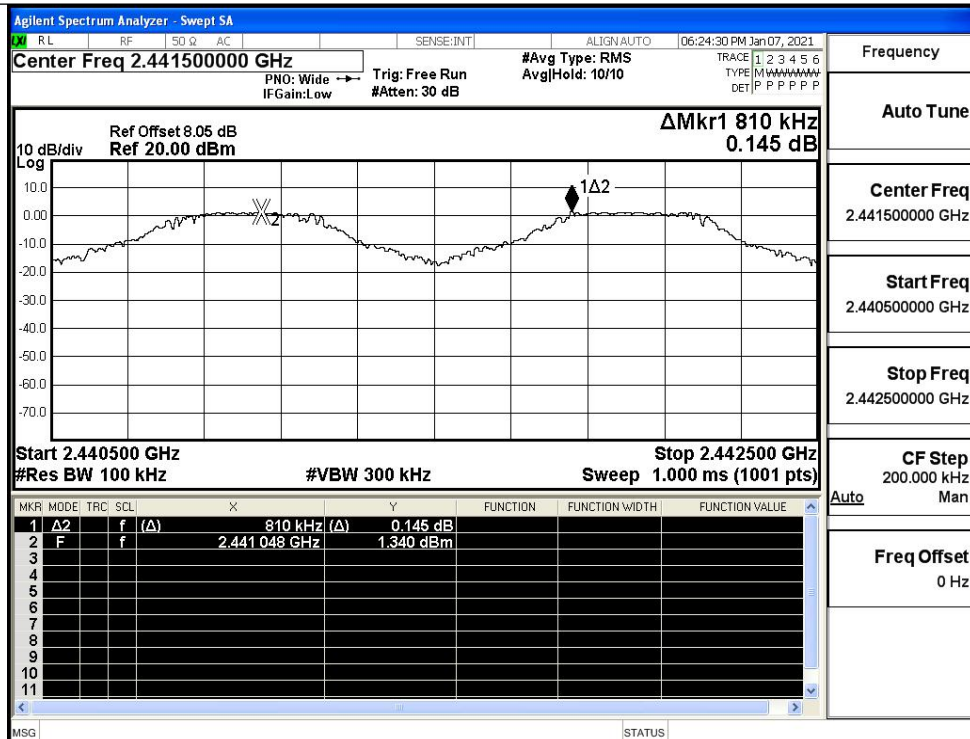
A.3 Carrier Frequency Separation

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	1.124	0.635	PASS
	MCH	0.810	0.635	PASS
	HCH	0.994	0.635	PASS
$\pi/4$ DQPSK	LCH	1.320	0.874	PASS
	MCH	0.984	0.874	PASS
	HCH	1.010	0.874	PASS

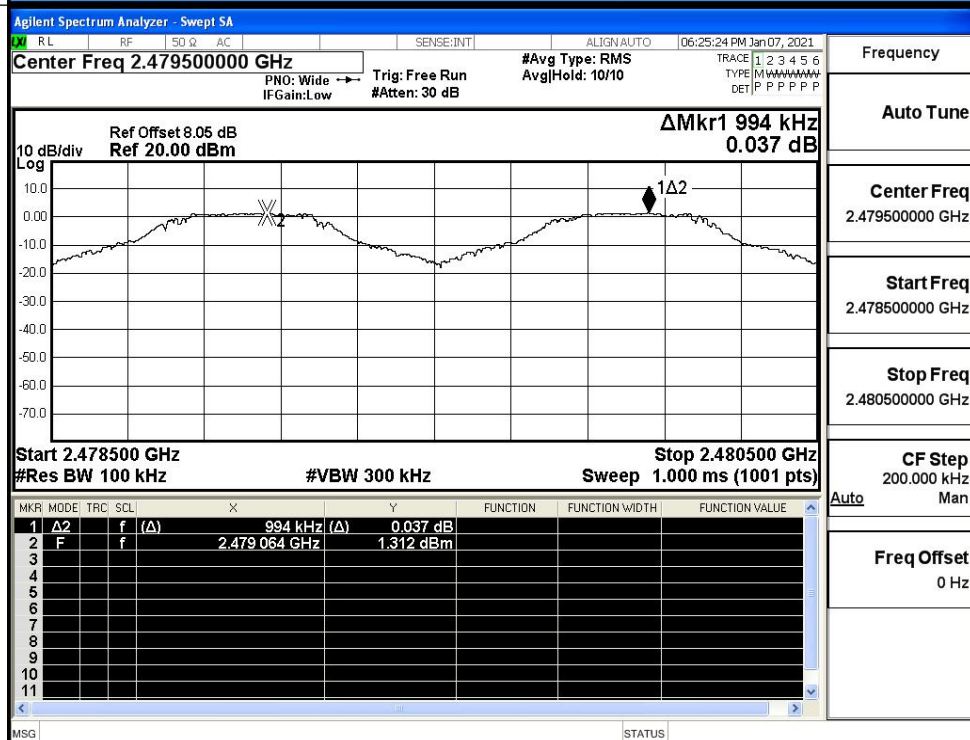
Test Graphs

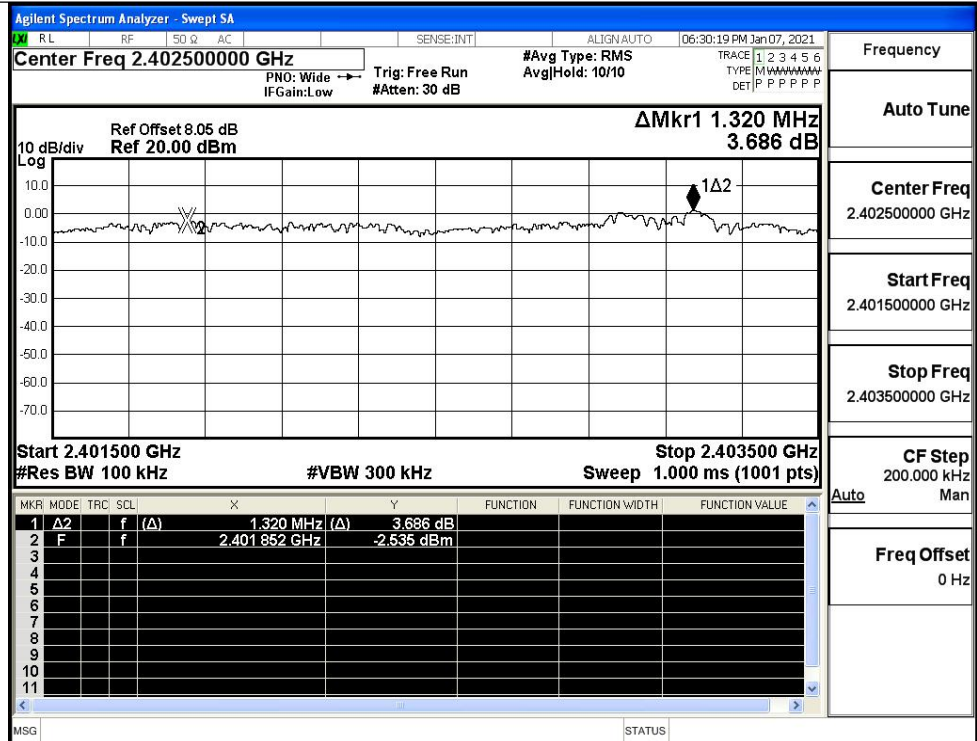
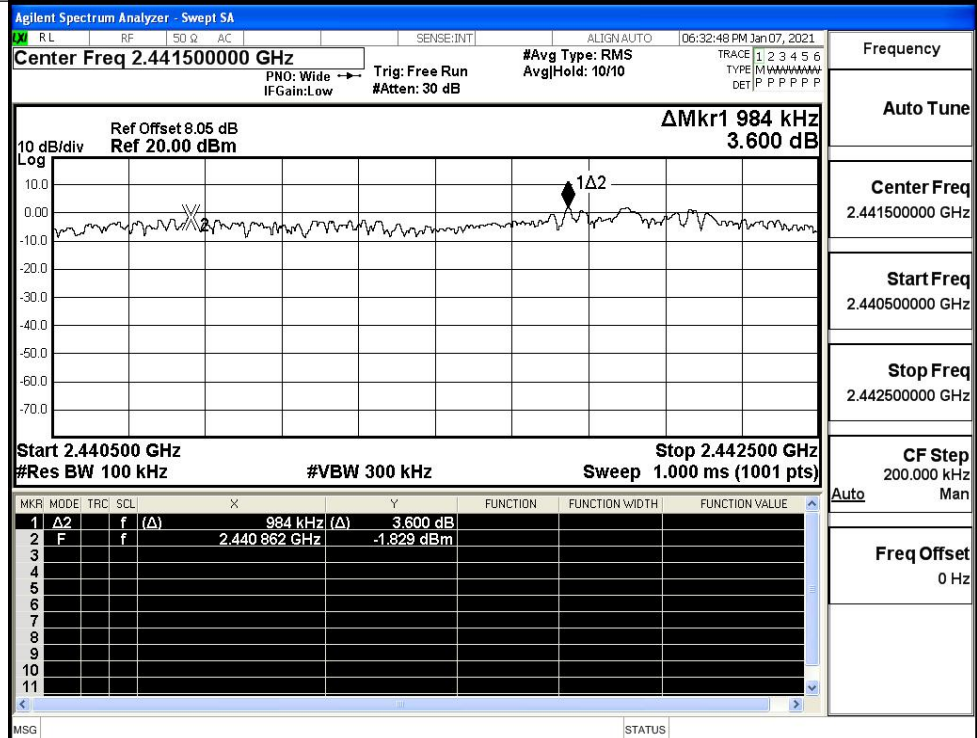


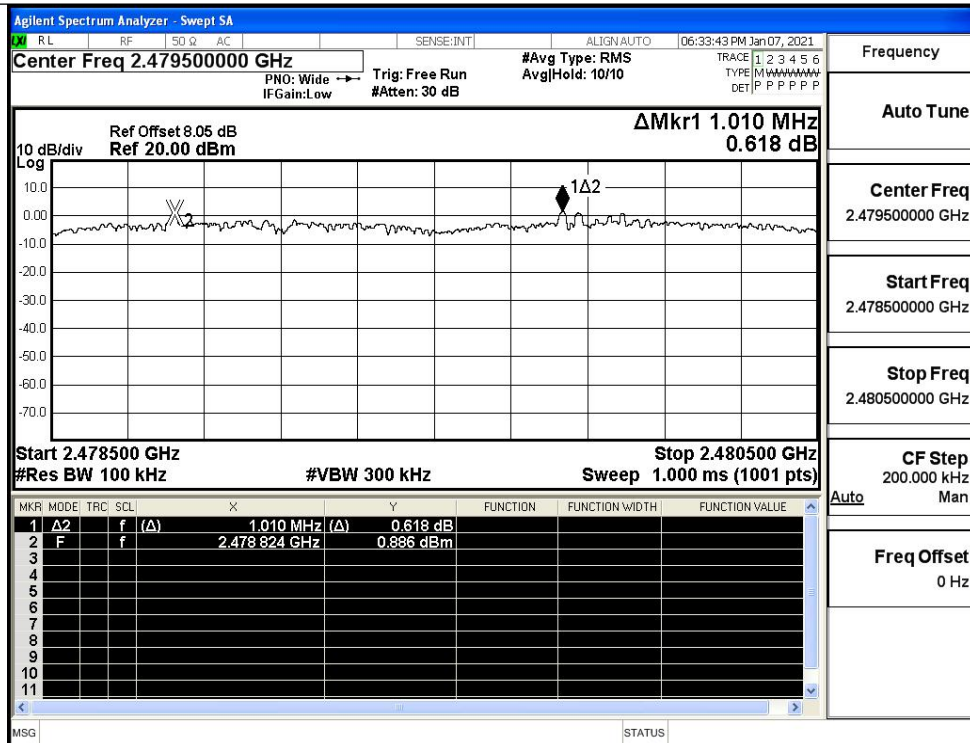
GFSK/MCH



GFSK/HCH



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

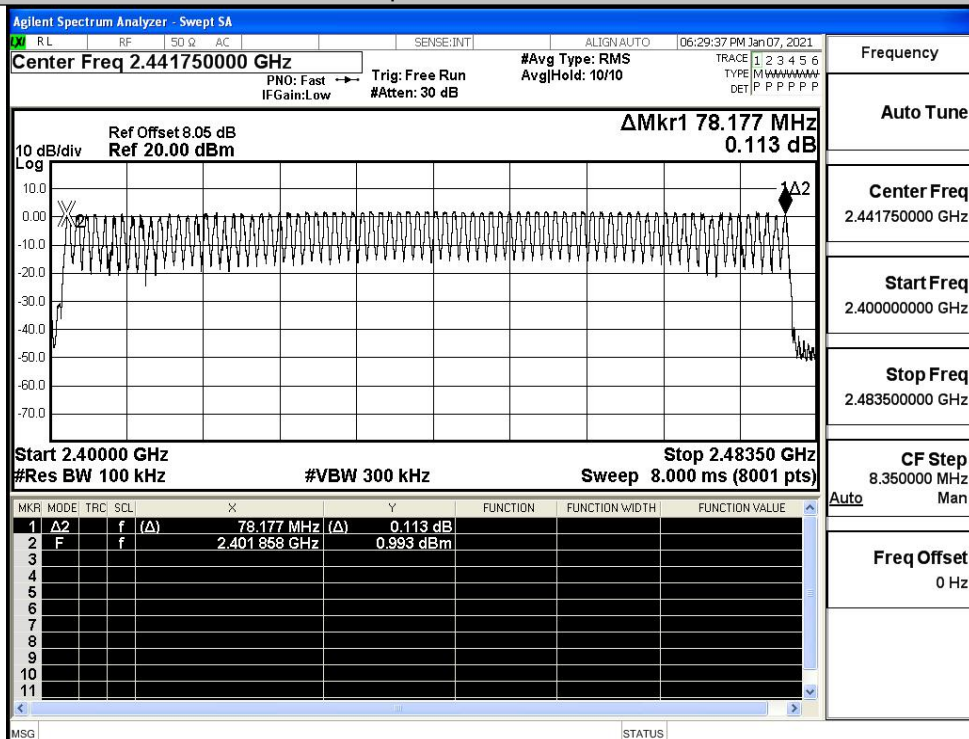
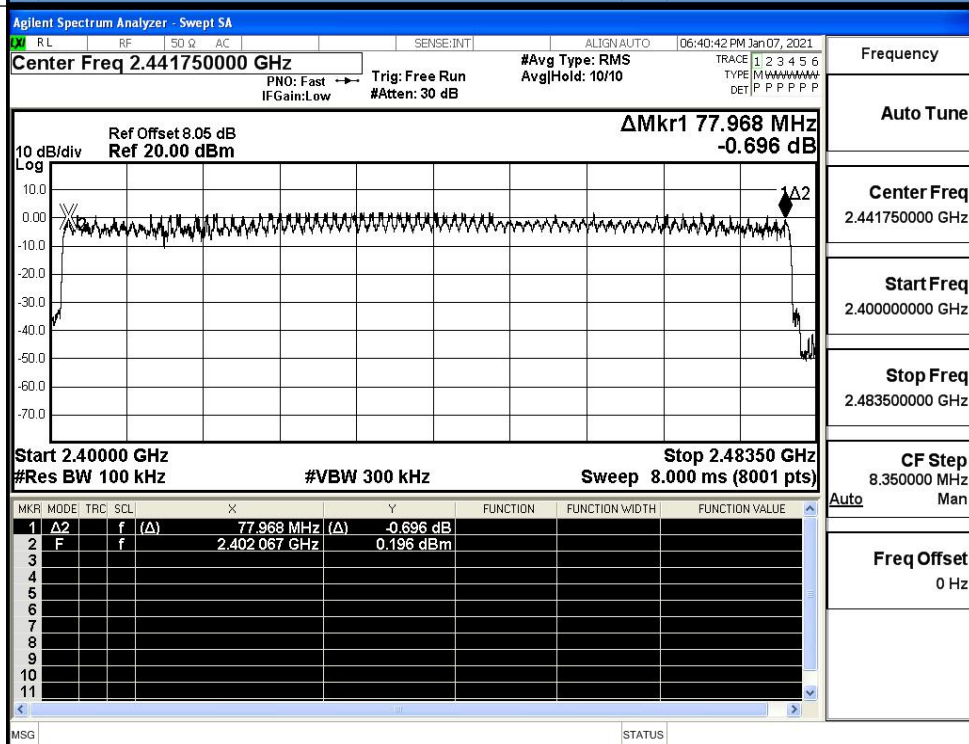
$\pi/4$ DQPSK/HCH

A.4 Hopping Channel Number

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

Test Graphs

GFSK/Hop

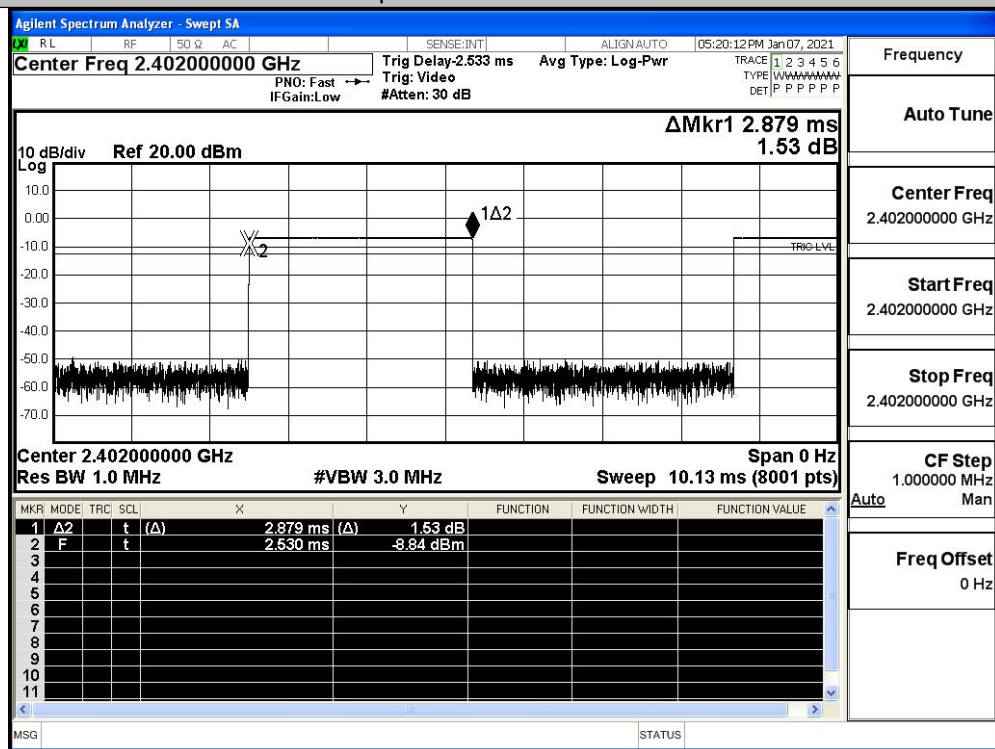
 $\pi/4$ DQPSK/Hop

A.5 Dwell Time

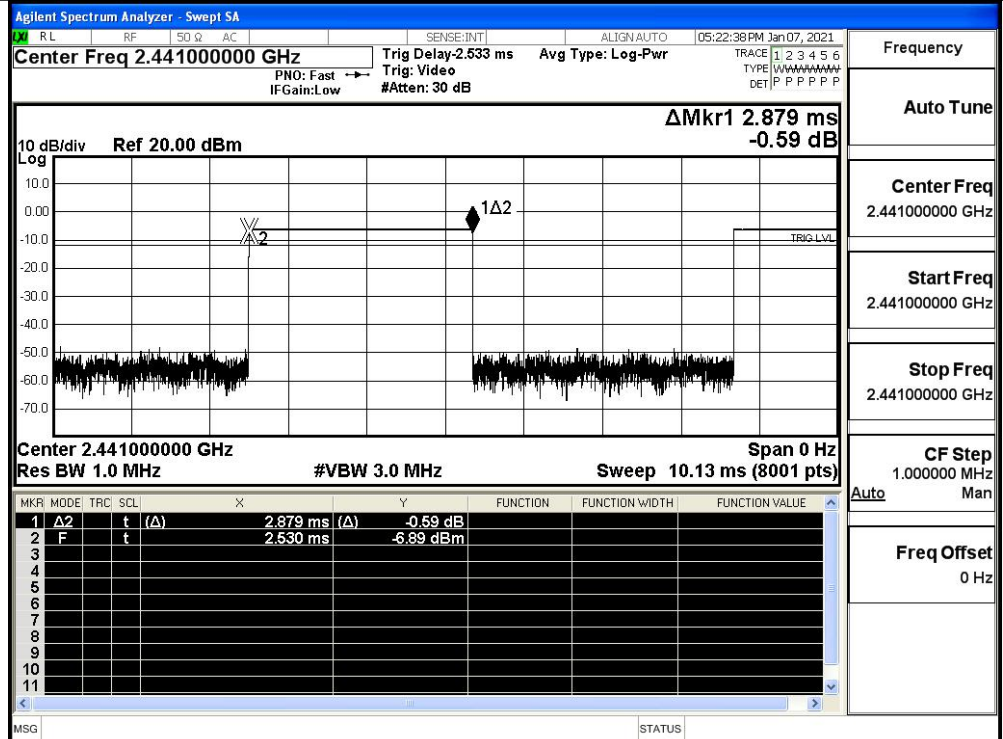
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	2.88	106.7	0.307	0.4	PASS
	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	HCH	2.88	106.7	0.307	0.4	PASS
$\pi/4$ DQPSK	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
	2DH5	MCH	2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	2.88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

Test Graphs

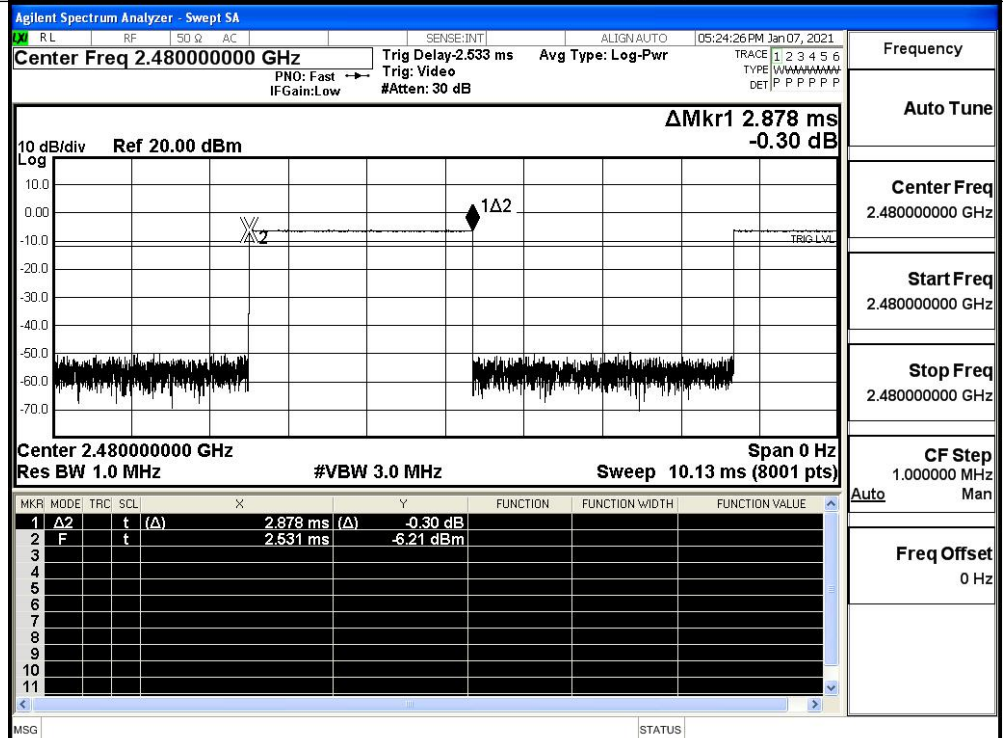
GFSK_DH5/LCH



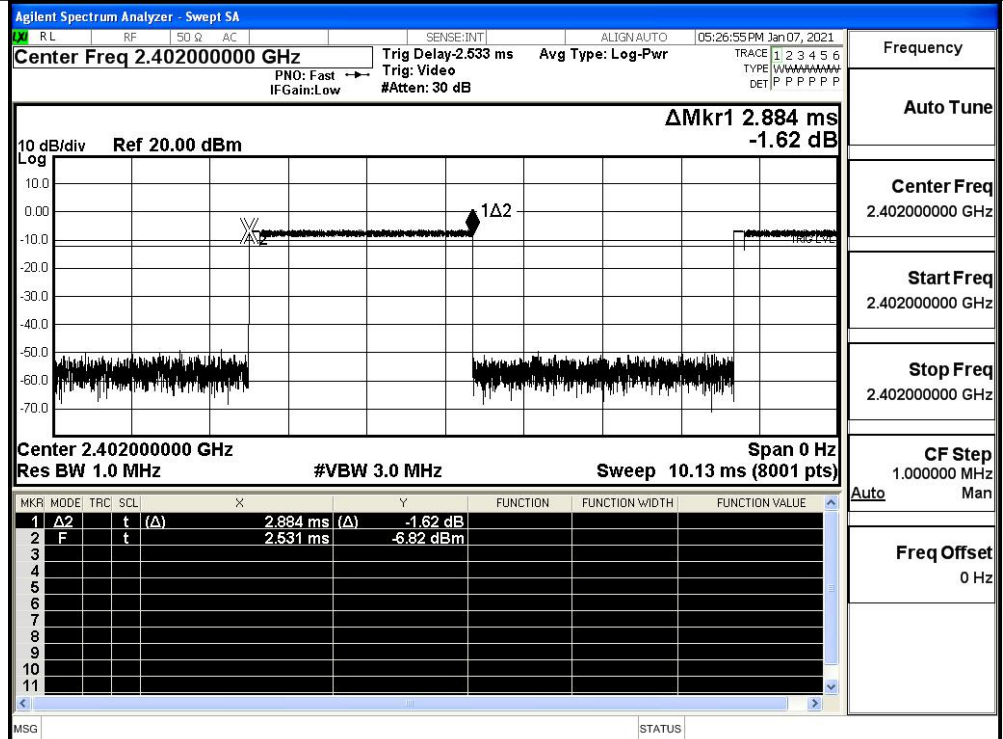
GFSK_DH5/MCH



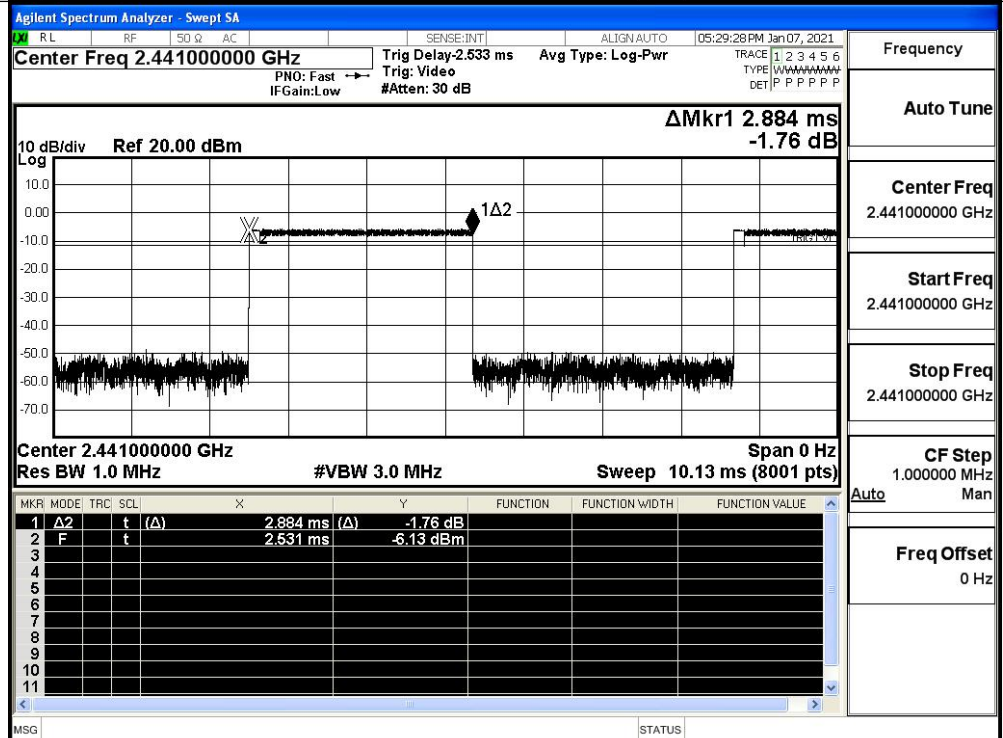
GFSK_DH5/HCH



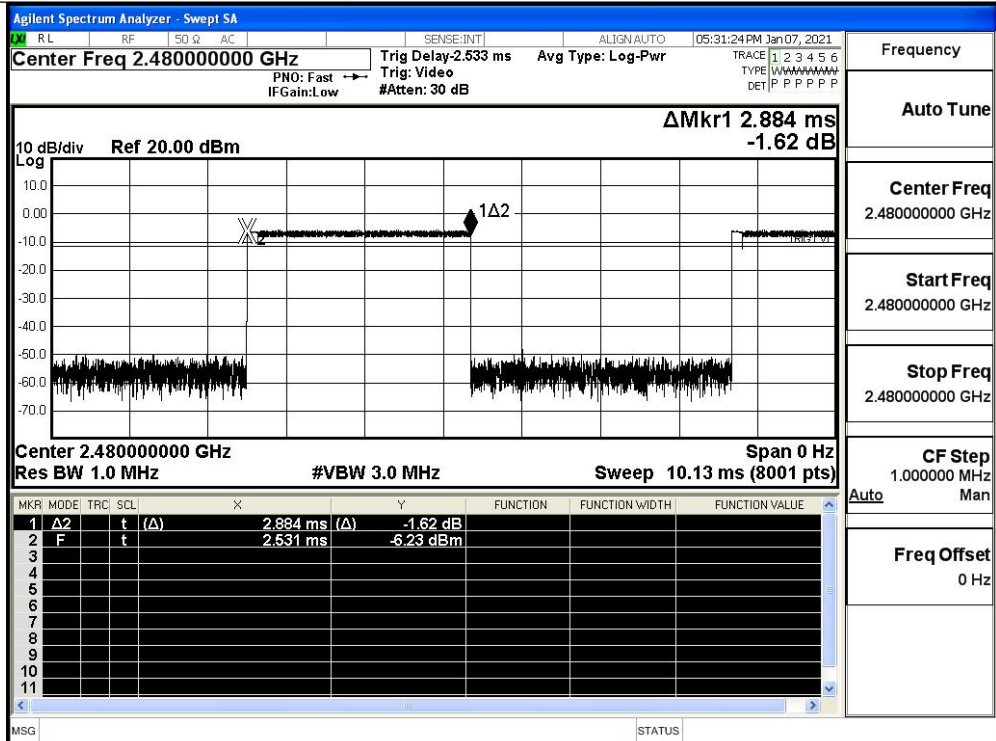
$\pi/4$ DQPSK
_2DH5/LCH



$\pi/4$ DQPSK
_2DH5/MCH



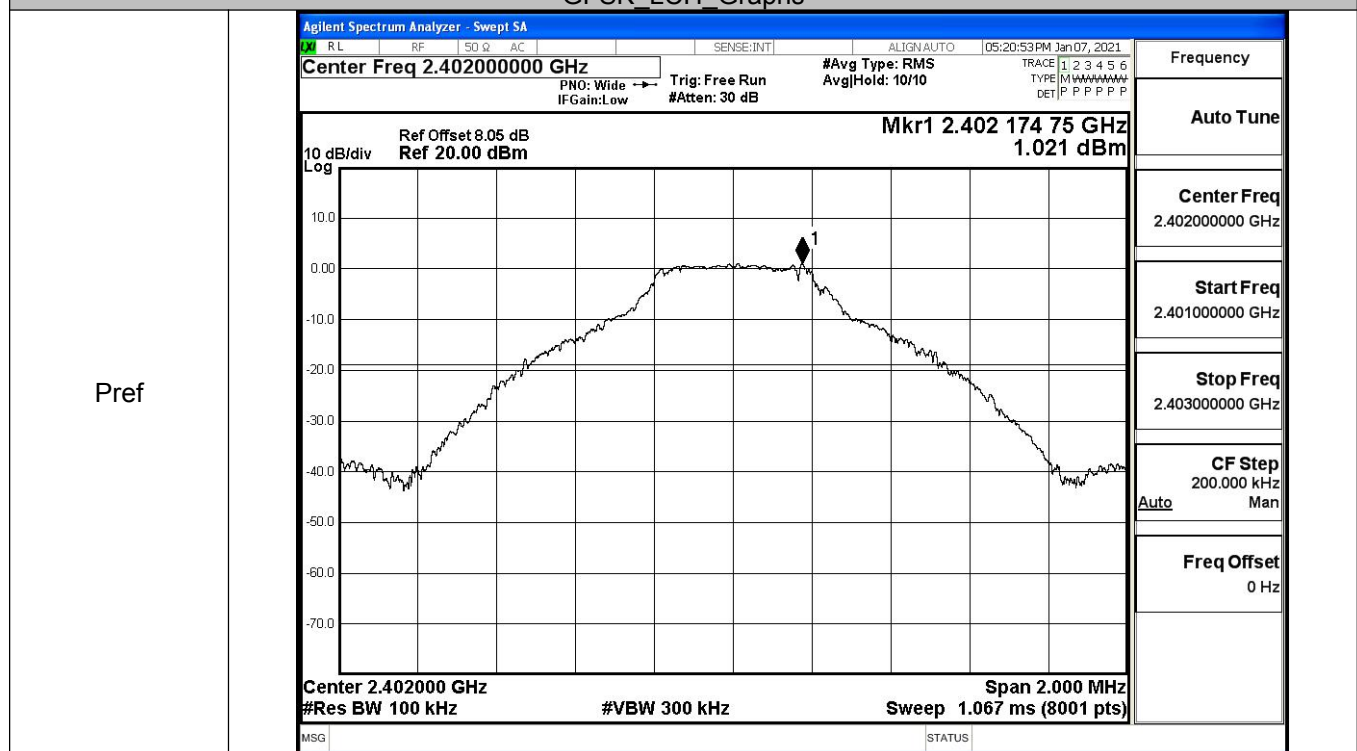
$\pi/4$ DQPSK
_2DH5/HCH

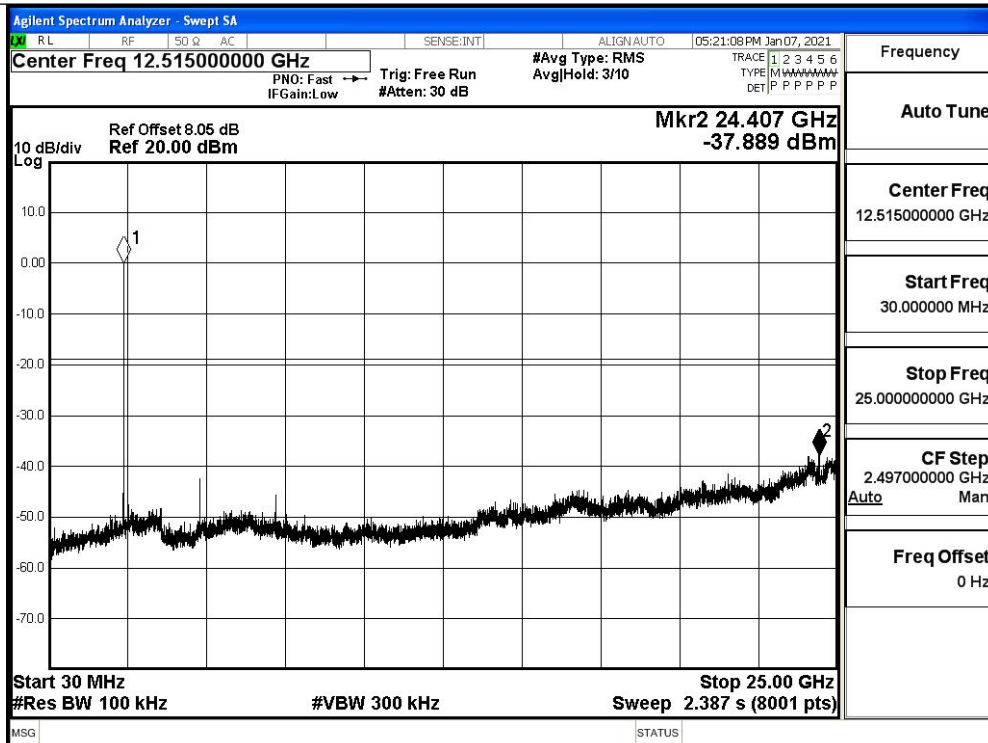


A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	1.021	-37.889	-18.979	PASS
	MCH	1.968	-36.974	-18.032	PASS
	HCH	1.316	-37.884	-18.684	PASS
$\pi/4$ DQPSK	LCH	1.191	-38.214	-18.809	PASS
	MCH	1.964	-36.901	-18.036	PASS
	HCH	1.709	-37.593	-18.291	PASS

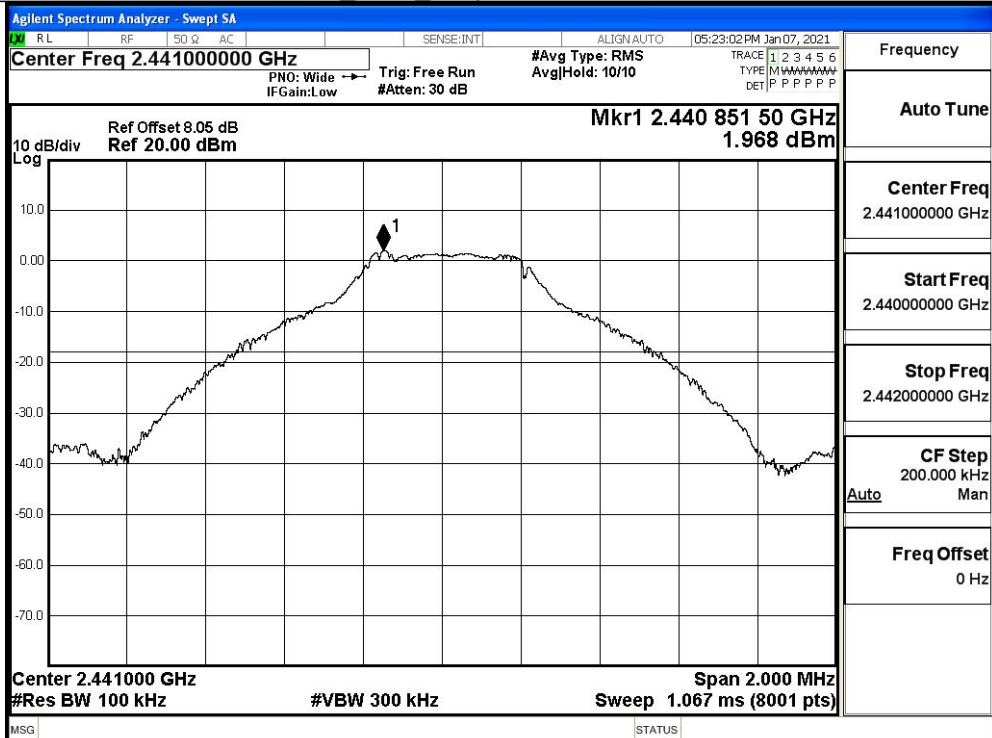
GFSK_LCH_Graphs



P_u

GFSK_MCH_Graphs

Pref



Puw

