

Appendix A

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

Product Name: BRAZEN PRIDE, STAG and SERPENT 2.1 BLUETOOTH SURROUND
SOUND GAMING CHAIR

Trade Mark: BRAZEN

Test Model: BX-310

Environmental Conditions

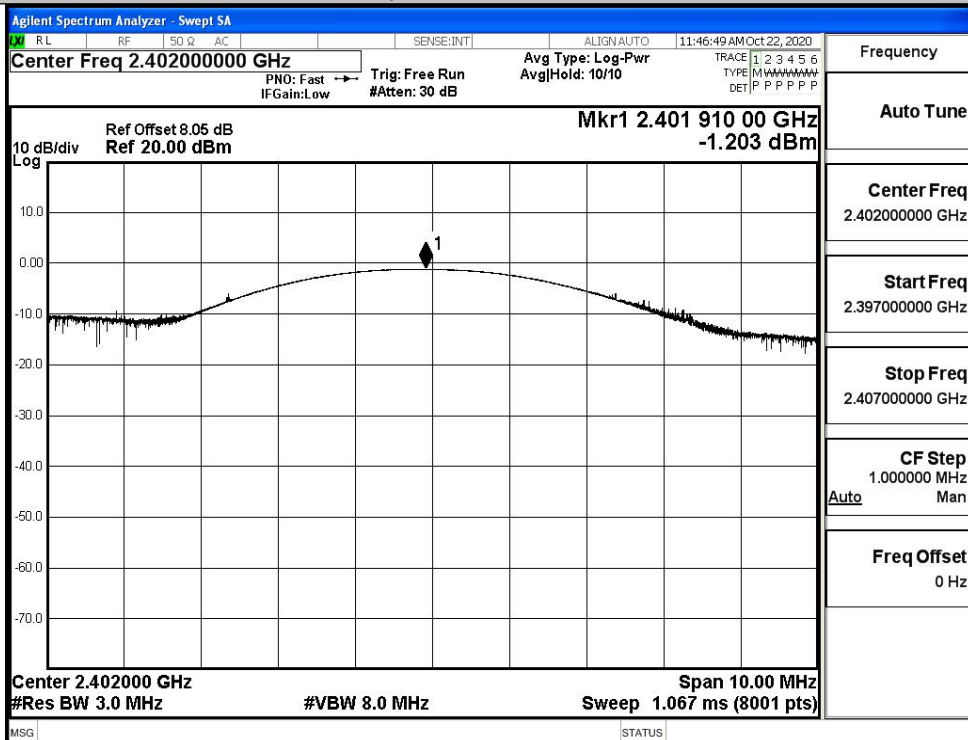
Temperature:	25.3° C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan

A.1 Maximum Conducted Peak Output Power

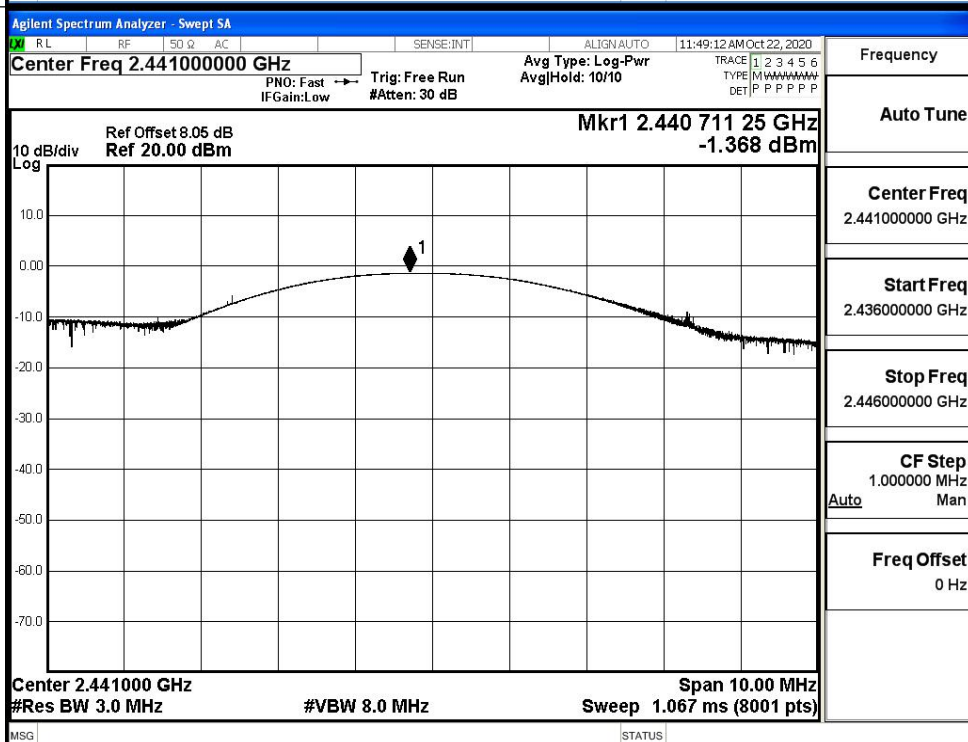
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-1.203	21	PASS
	MCH	-1.368	21	PASS
	HCH	-1.625	21	PASS
$\pi/4$ DQPSK	LCH	-0.828	21	PASS
	MCH	-1.008	21	PASS
	HCH	-1.174	21	PASS

Test Graphs

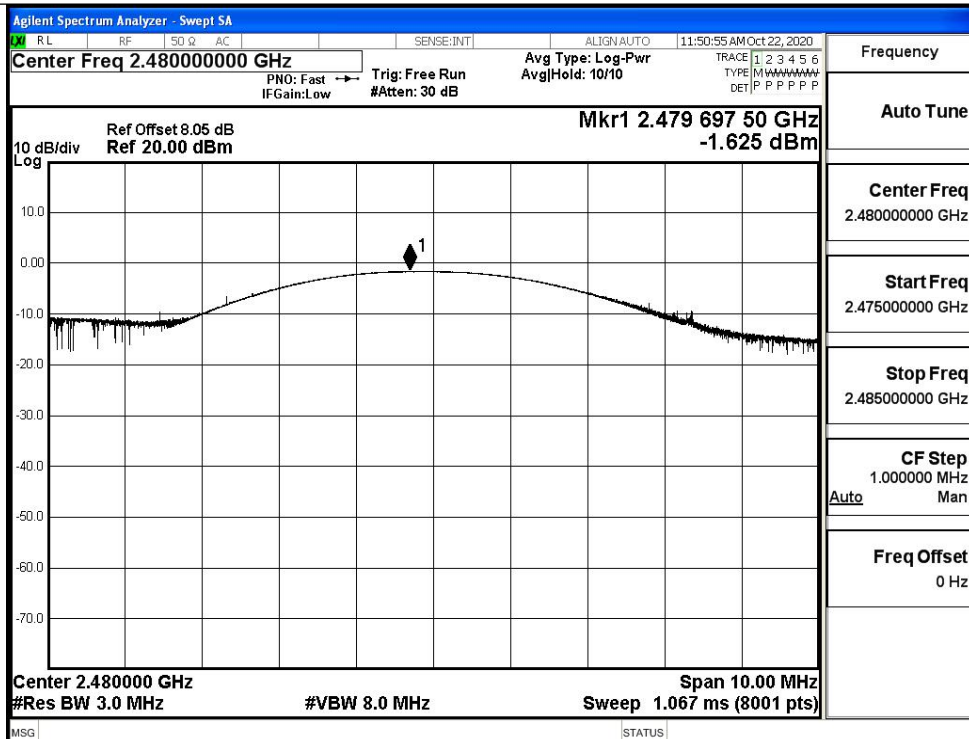
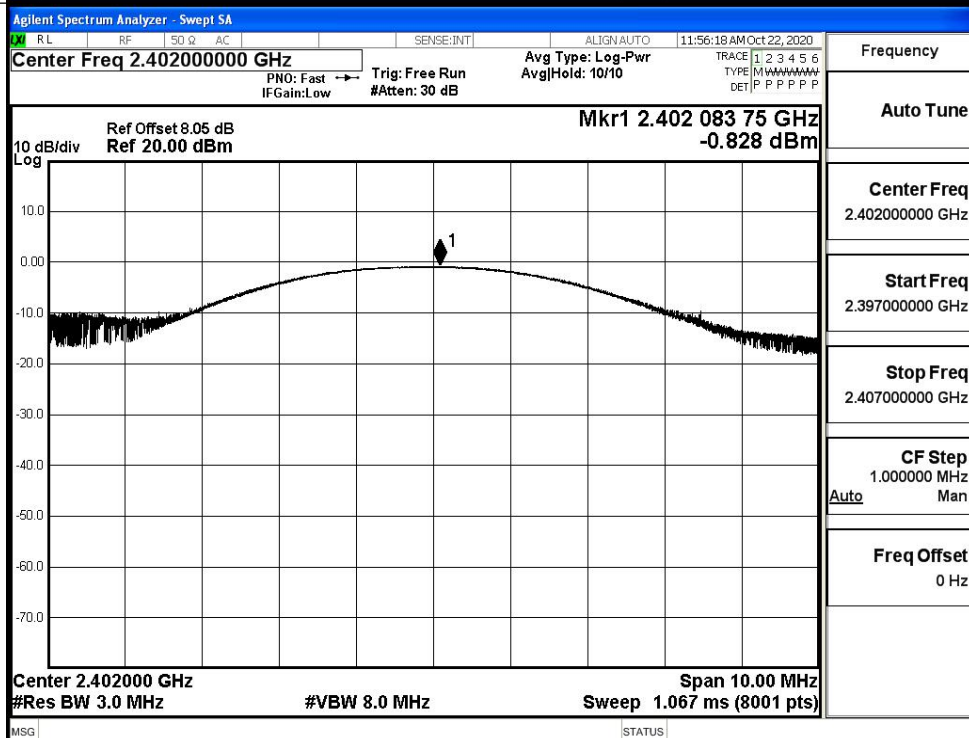
GFSK/LCH

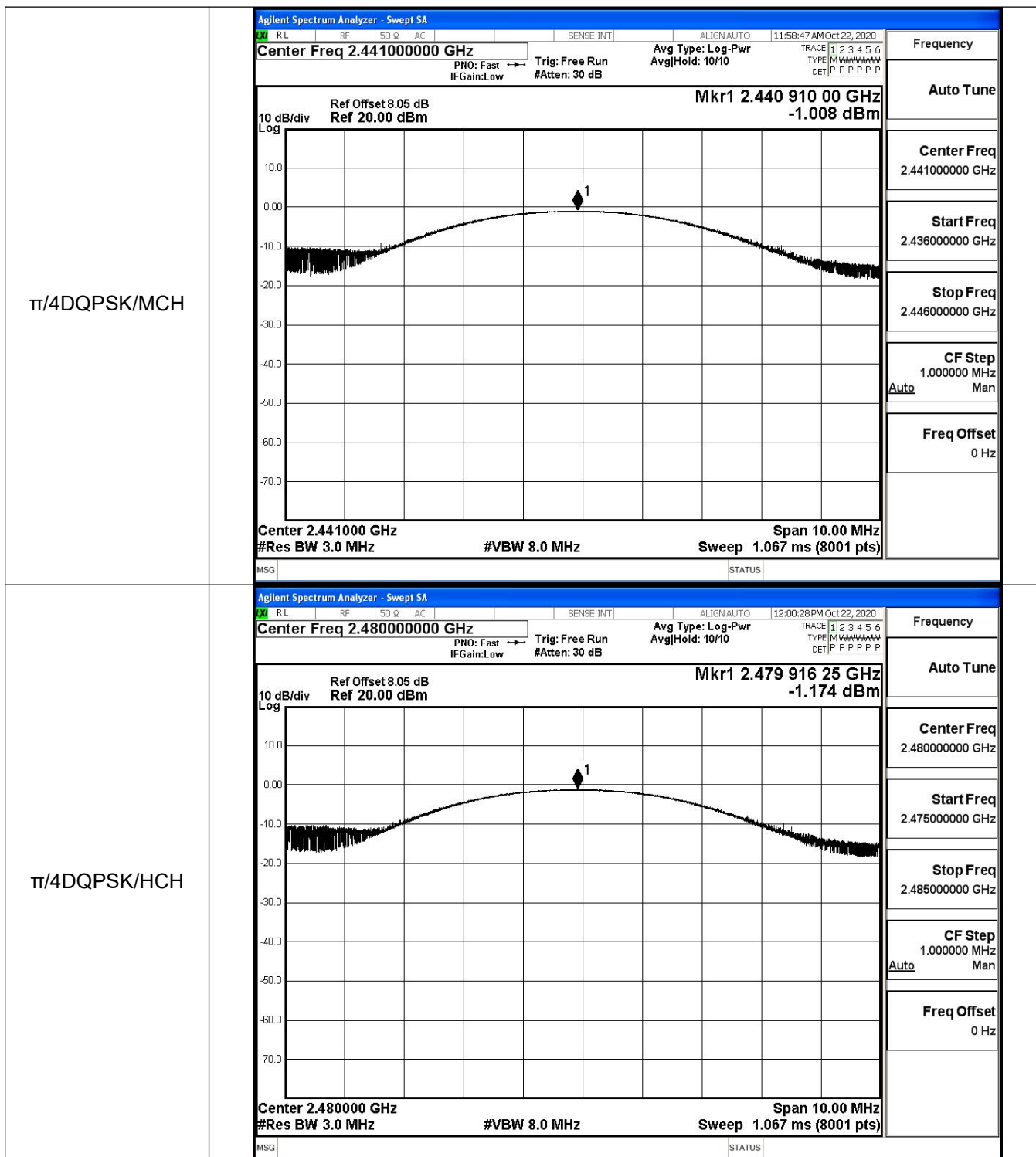


GFSK/MCH



GFSK/HCH

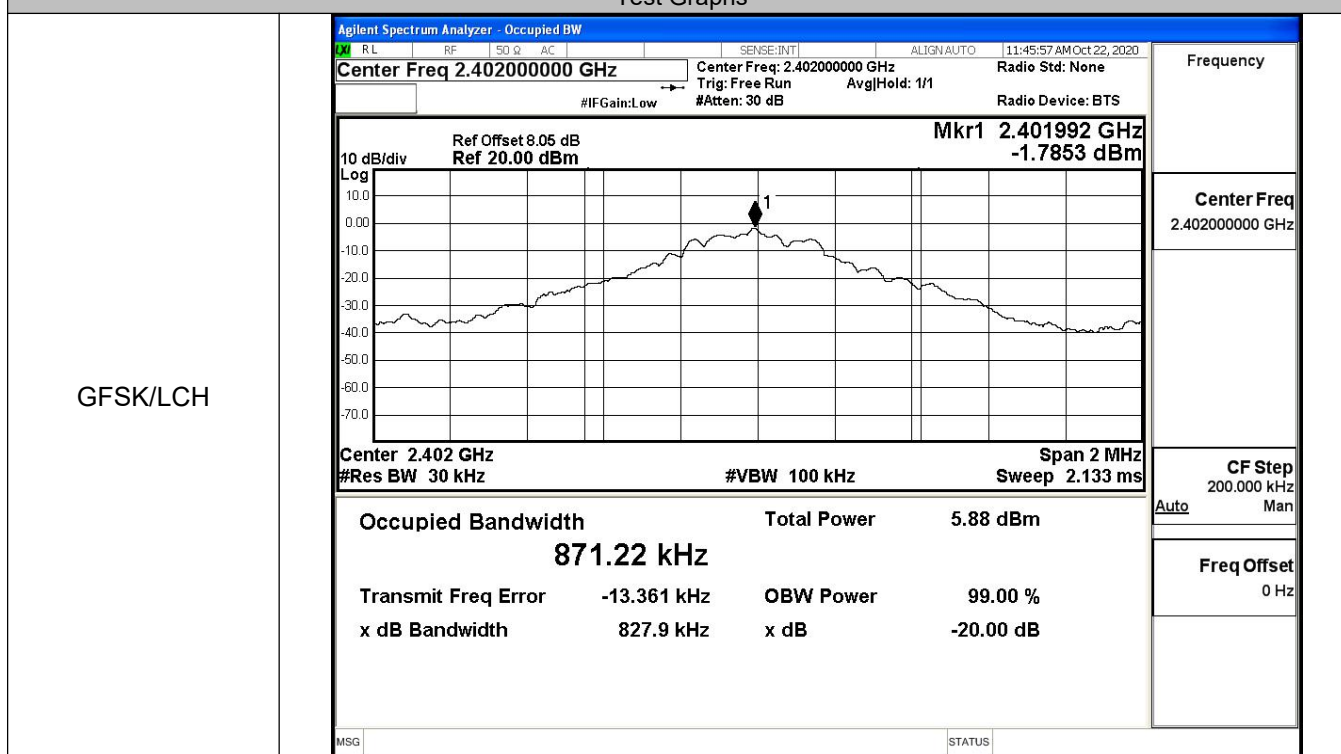
 π /4DQPSK/LCH



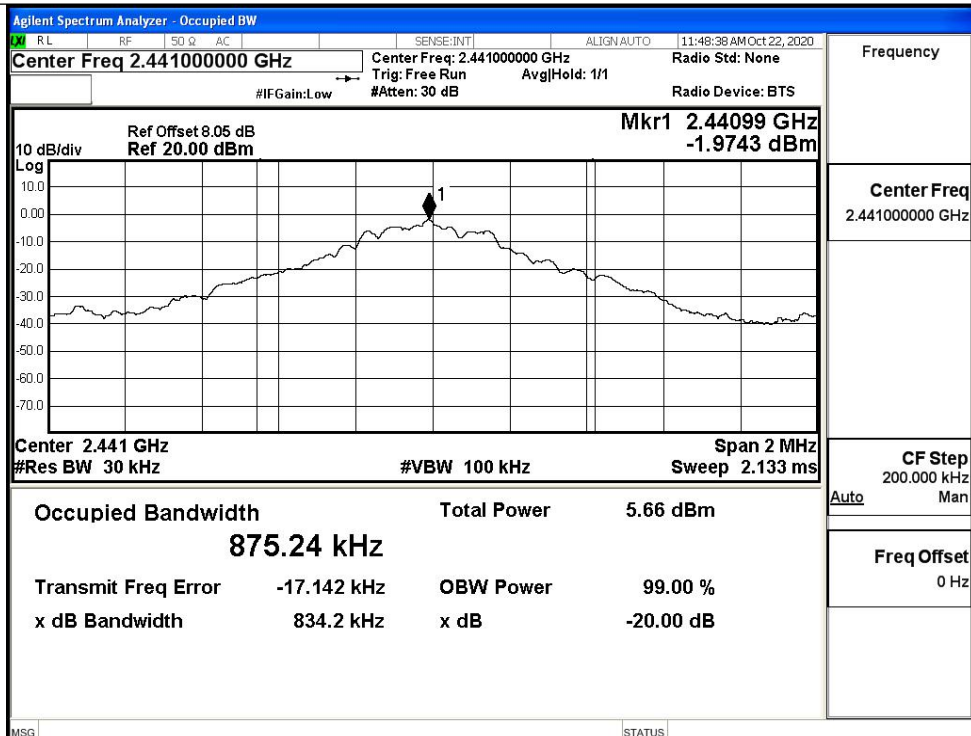
A.2 20dB Bandwidth

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.8279	Not Specified	PASS
	MCH	0.8342	Not Specified	PASS
	HCH	0.8121	Not Specified	PASS
$\pi/4$ DQPSK	LCH	1.260	Not Specified	PASS
	MCH	1.259	Not Specified	PASS
	HCH	1.259	Not Specified	PASS

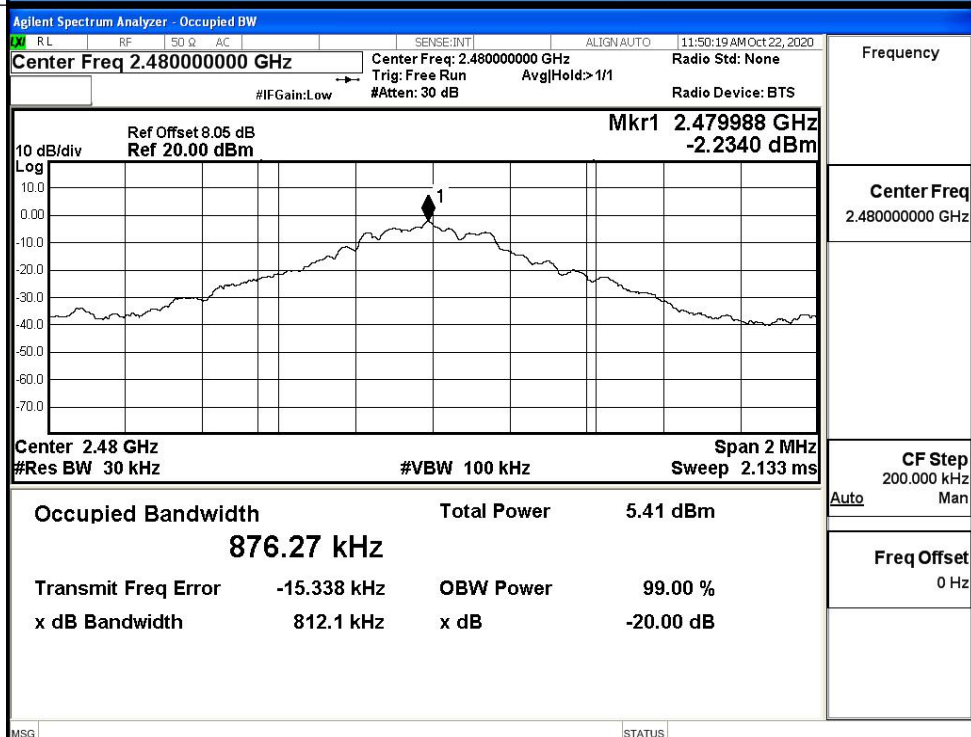
Test Graphs

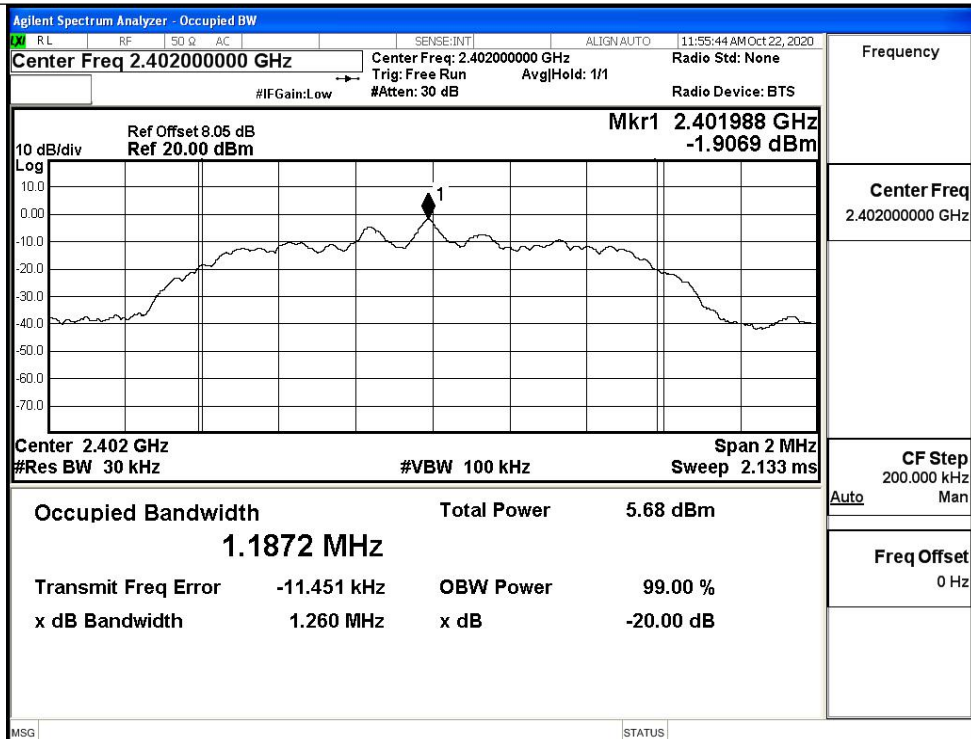
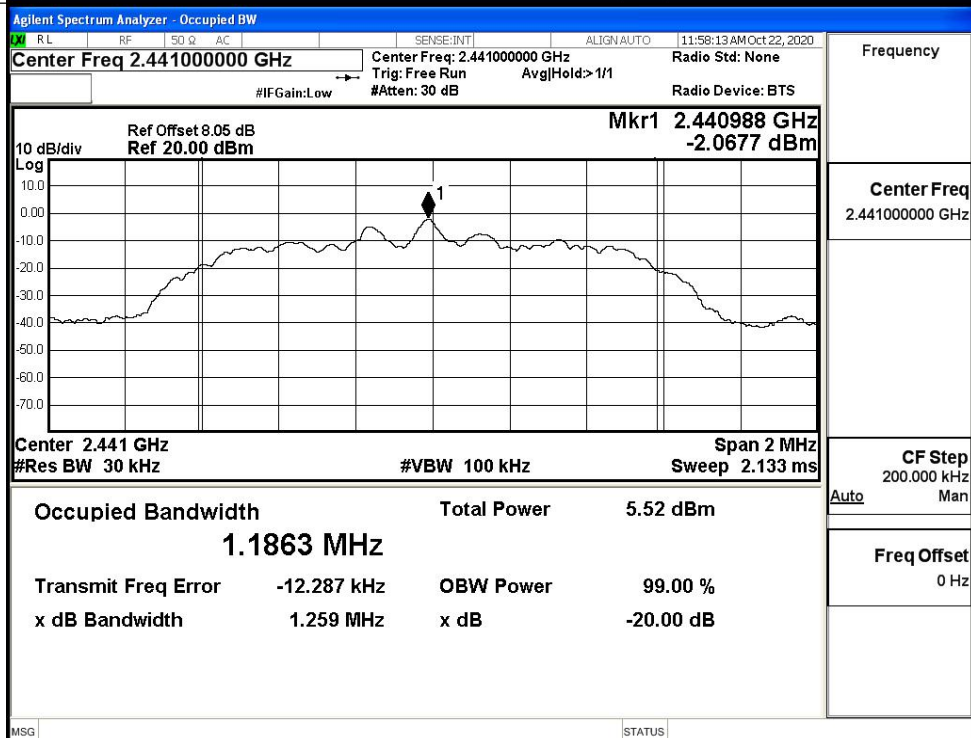


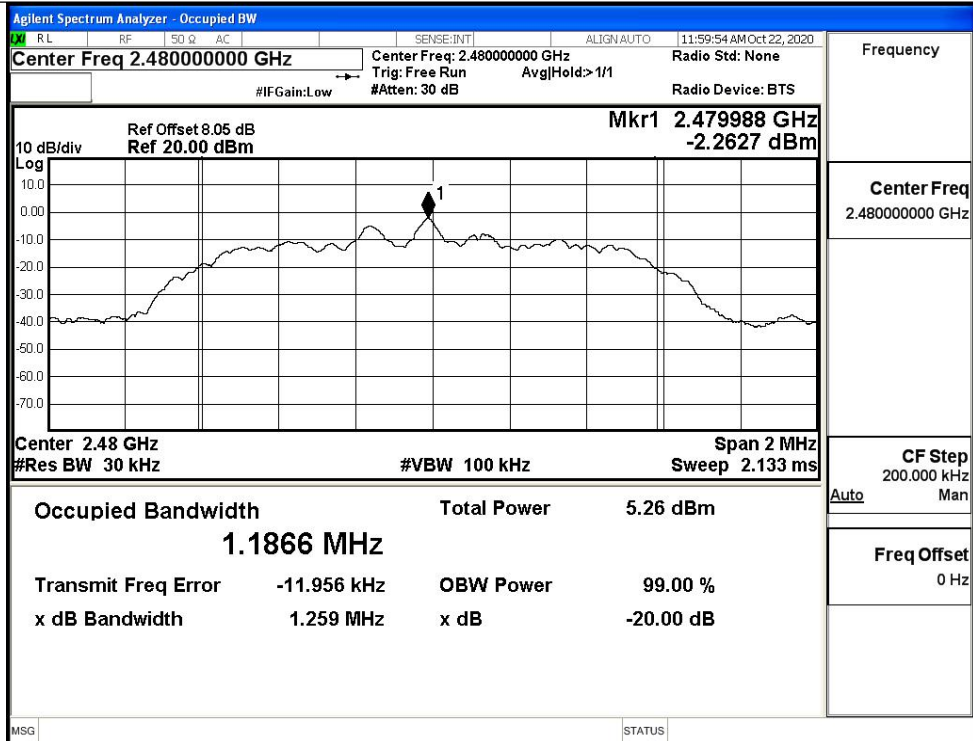
GFSK/MCH



GFSK/HCH



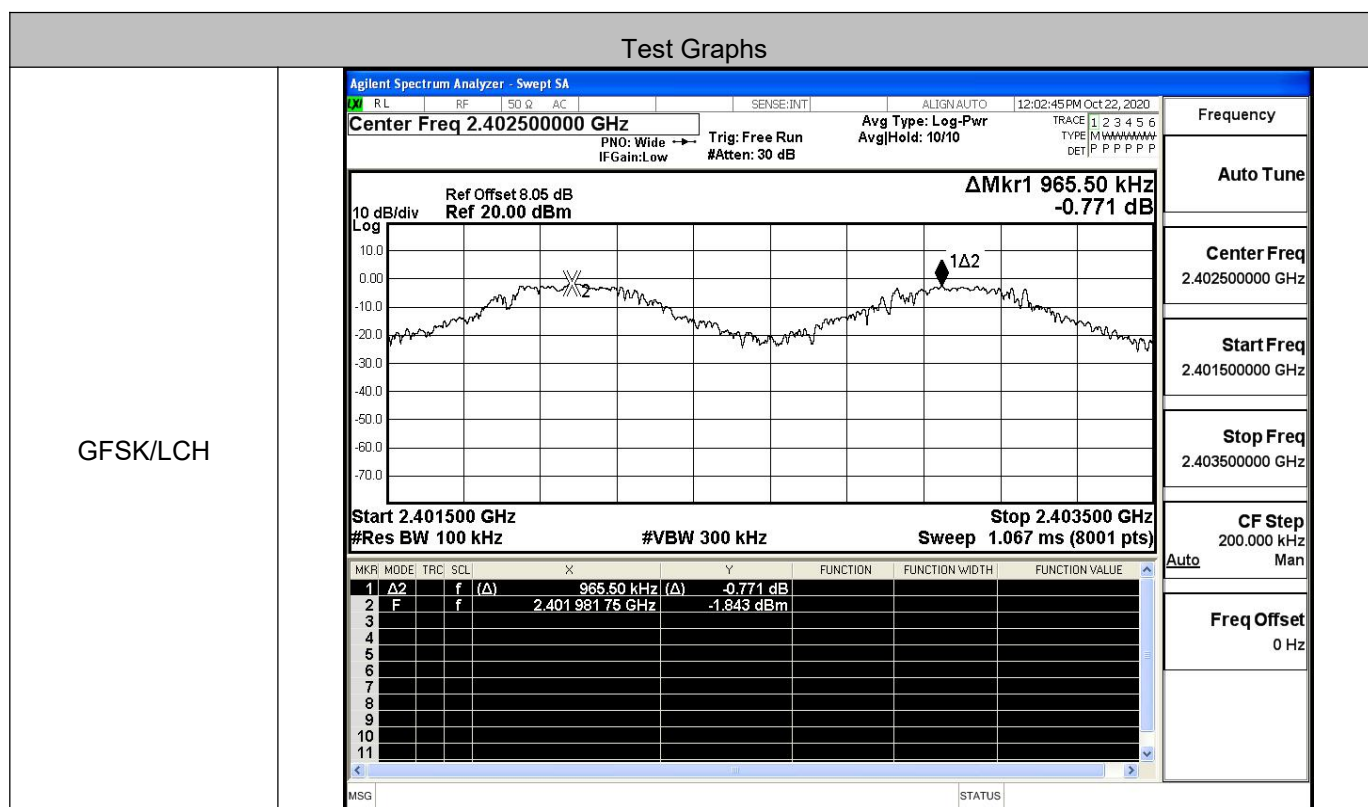
$\pi/4$ DQPSK/LCH $\pi/4$ DQPSK/MCH

$\pi/4$ DQPSK/HCH

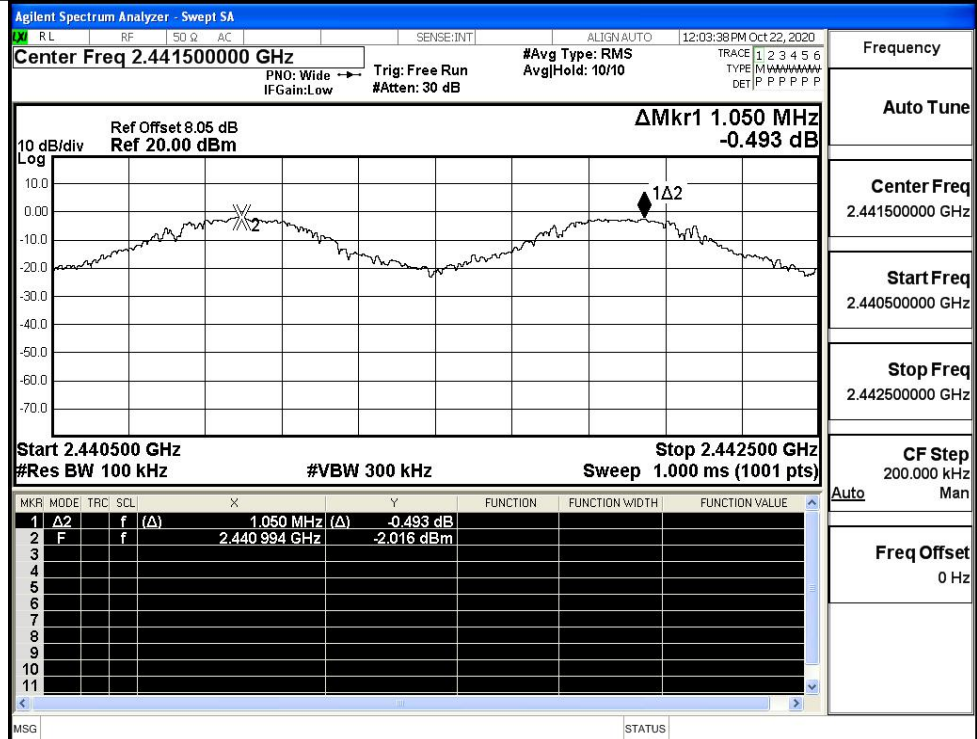
A.3 Carrier Frequency Separation

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.966	0.556	PASS
	MCH	1.050	0.556	PASS
	HCH	1.014	0.556	PASS
π /4DQPSK	LCH	1.088	0.840	PASS
	MCH	1.010	0.840	PASS
	HCH	0.950	0.840	PASS

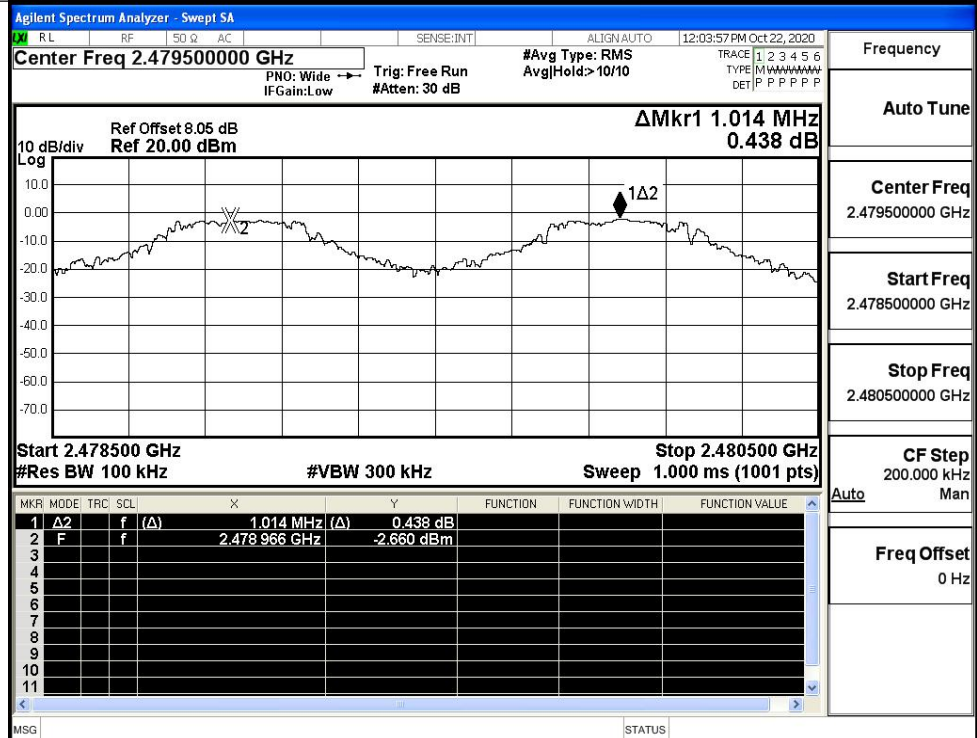
Test Graphs

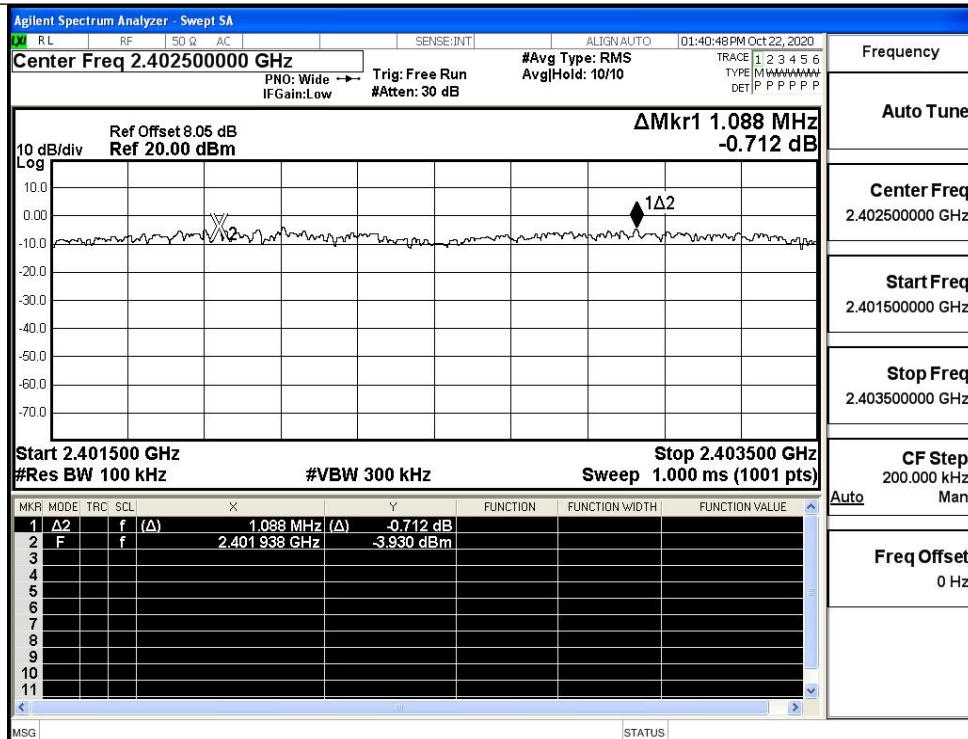
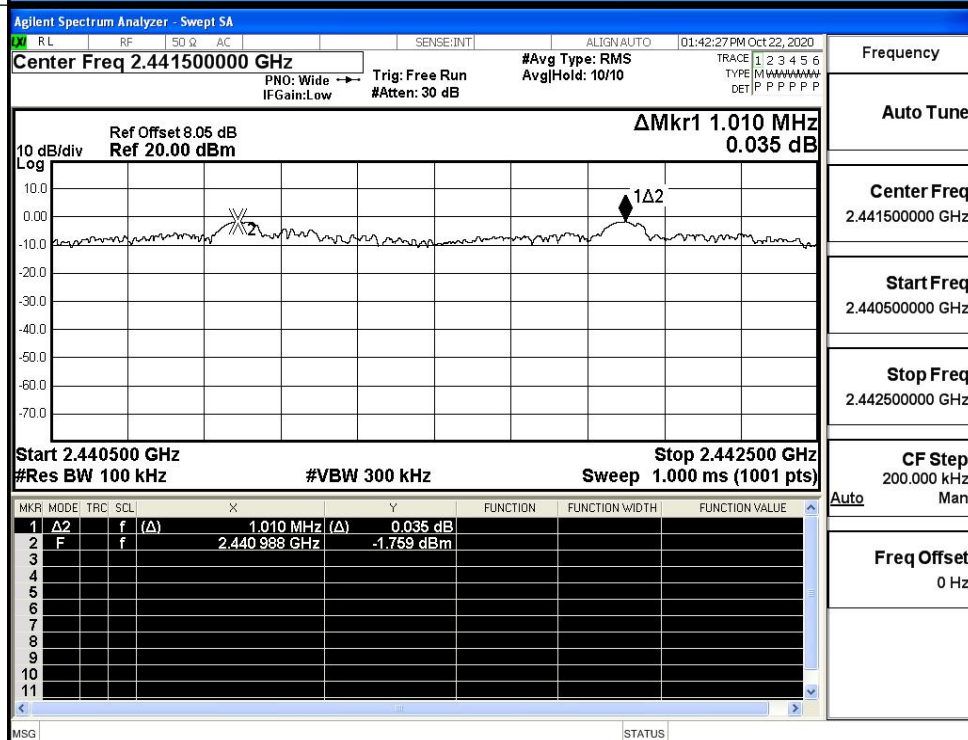


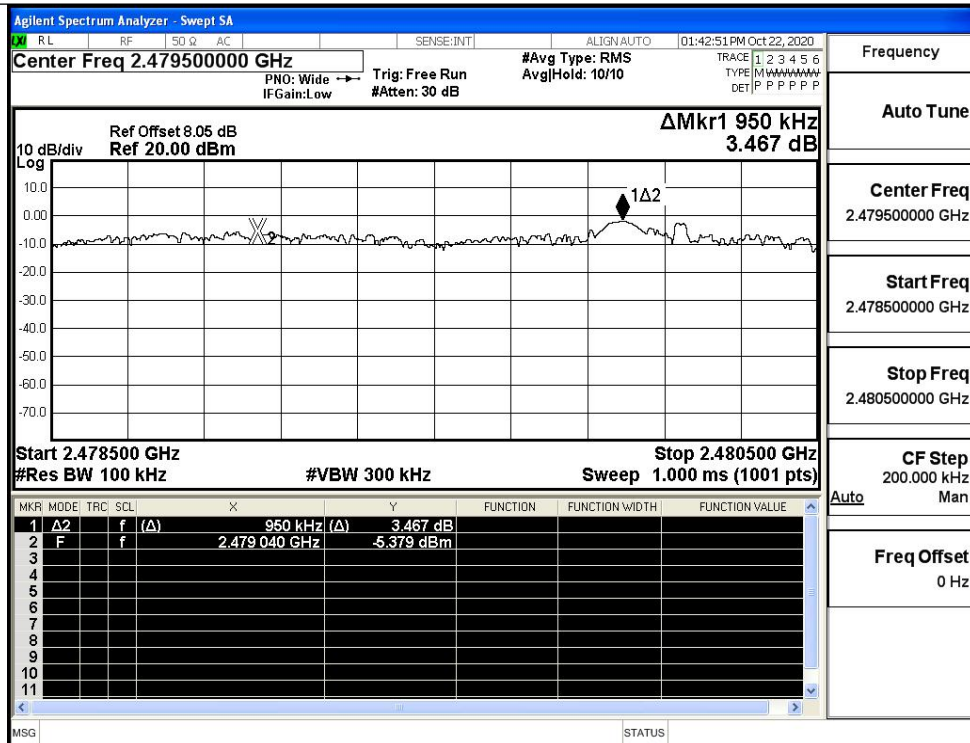
GFSK/MCH



GFSK/HCH



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

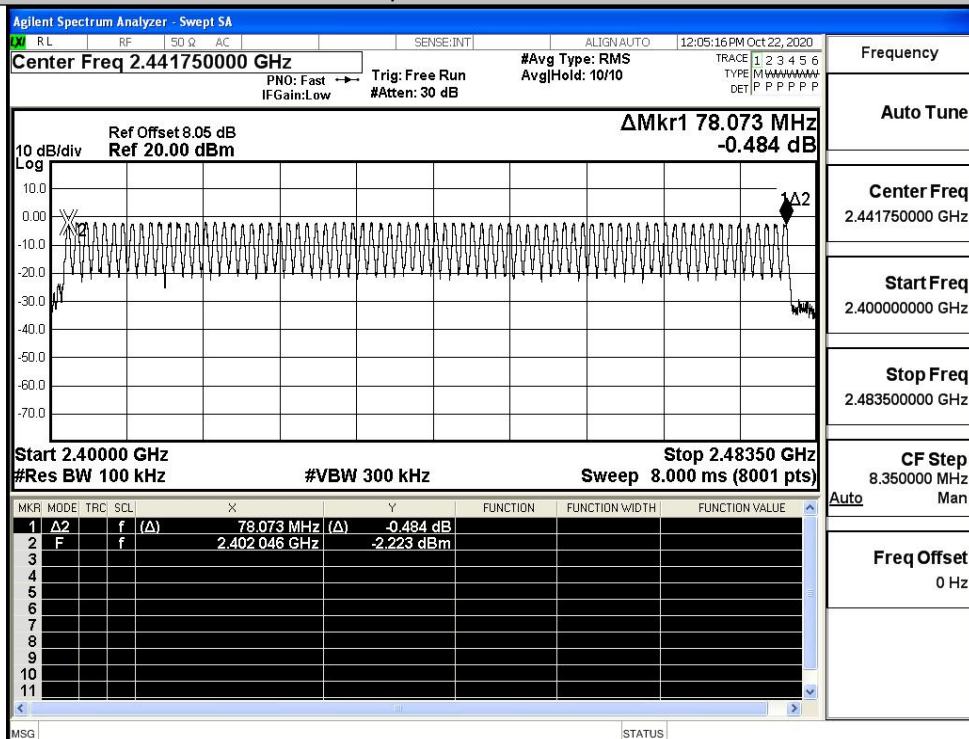
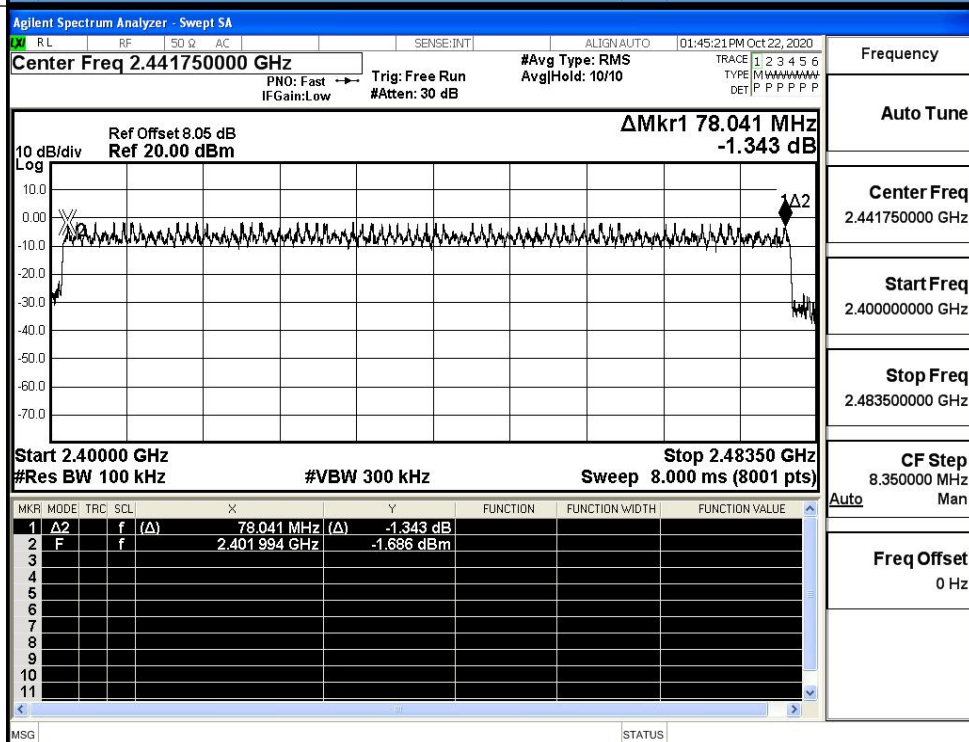
$\pi/4$ DQPSK/HCH

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

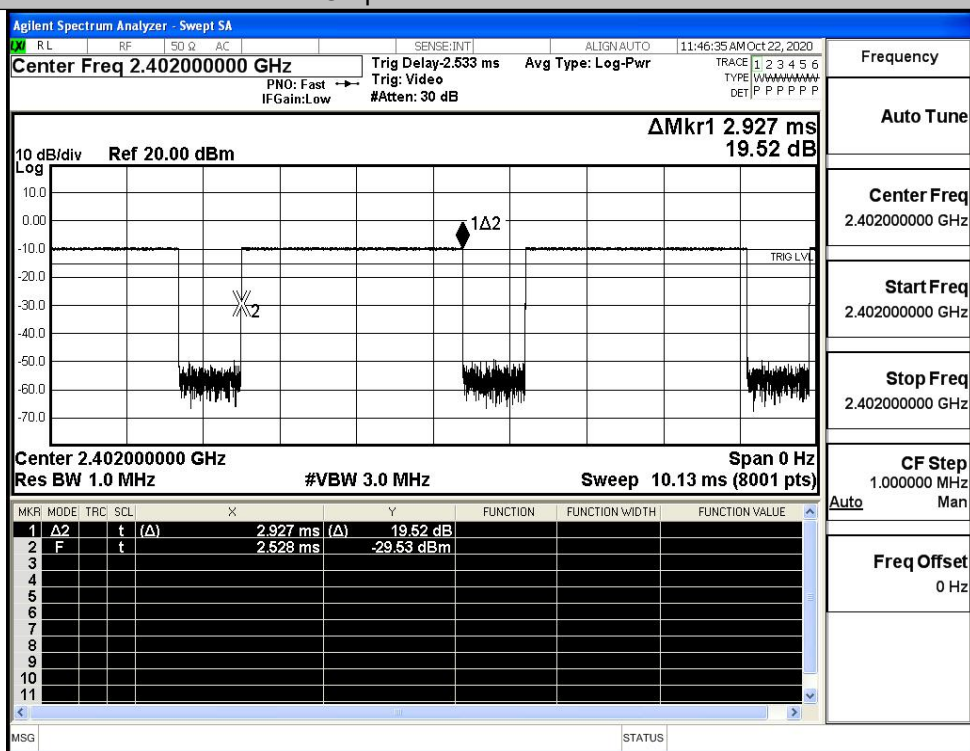
 $\pi/4$ DQPSK/Hop

A.5 Dwell Time

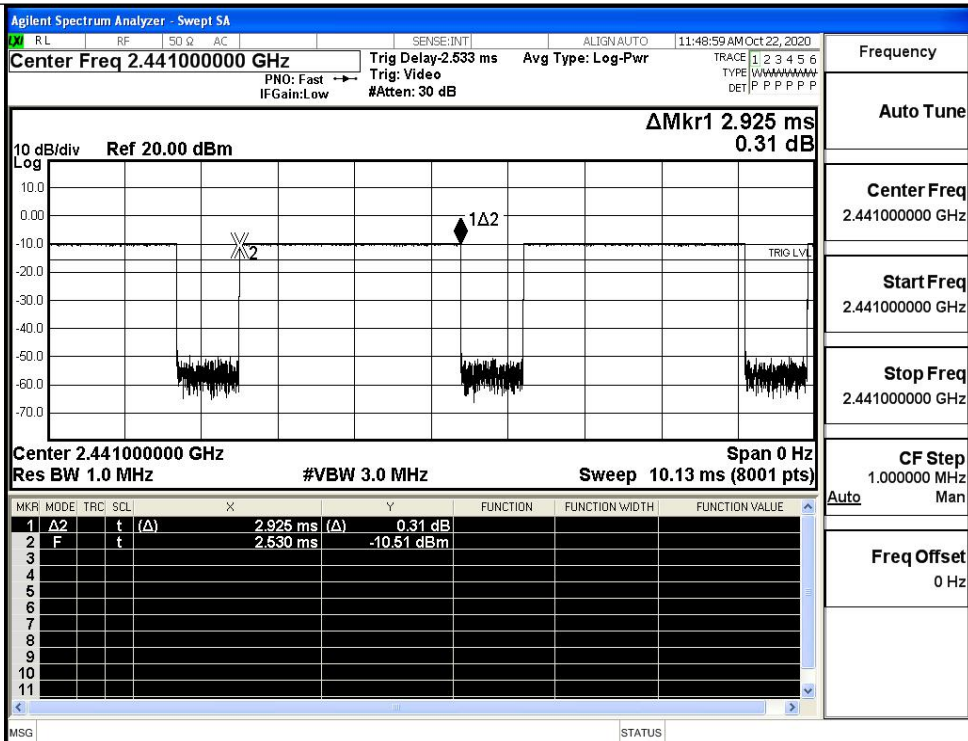
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	2.93	106.7	0.313	0.4	PASS
	DH5	MCH	2.92	106.7	0.312	0.4	PASS
	DH5	HCH	2.92	106.7	0.312	0.4	PASS
$\pi/4$ DQPSK	2DH5	LCH	2.93	106.7	0.313	0.4	PASS
	2DH5	MCH	2.92	106.7	0.313	0.4	PASS
	2DH5	HCH	2.92	106.7	0.313	0.4	PASS

Test Graphs

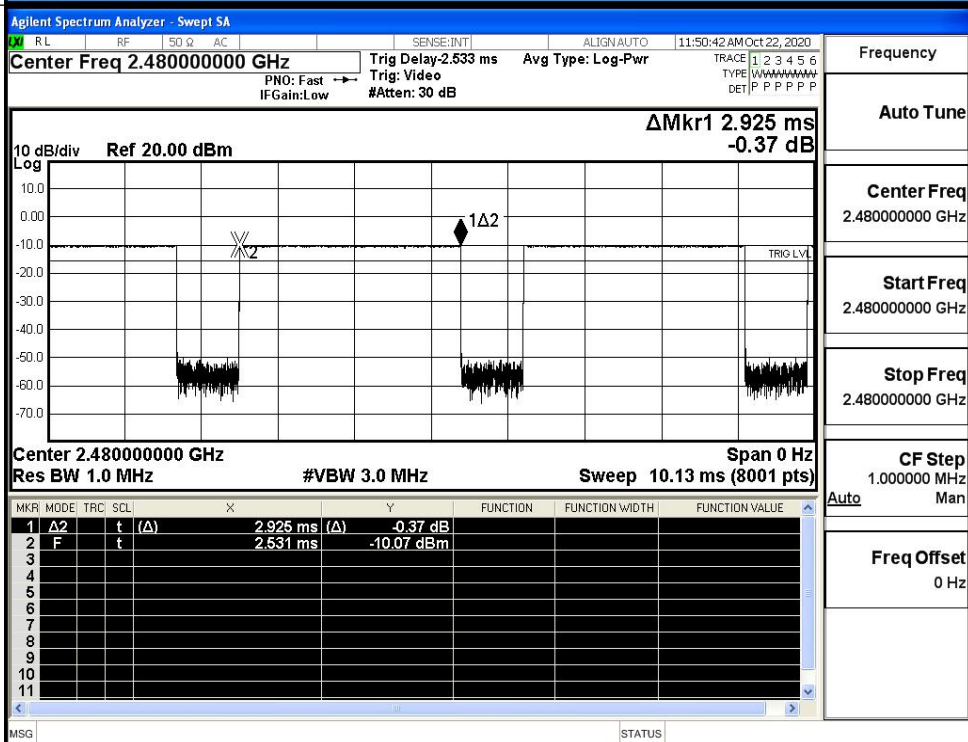
GFSK_DH5/LCH



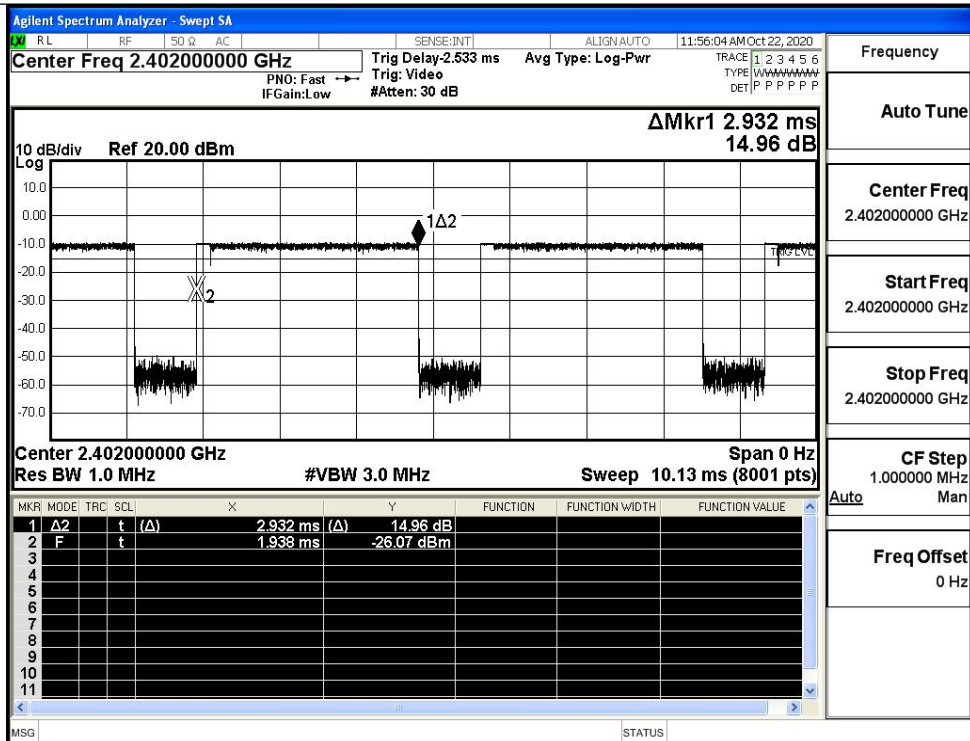
GFSK_DH5/MCH



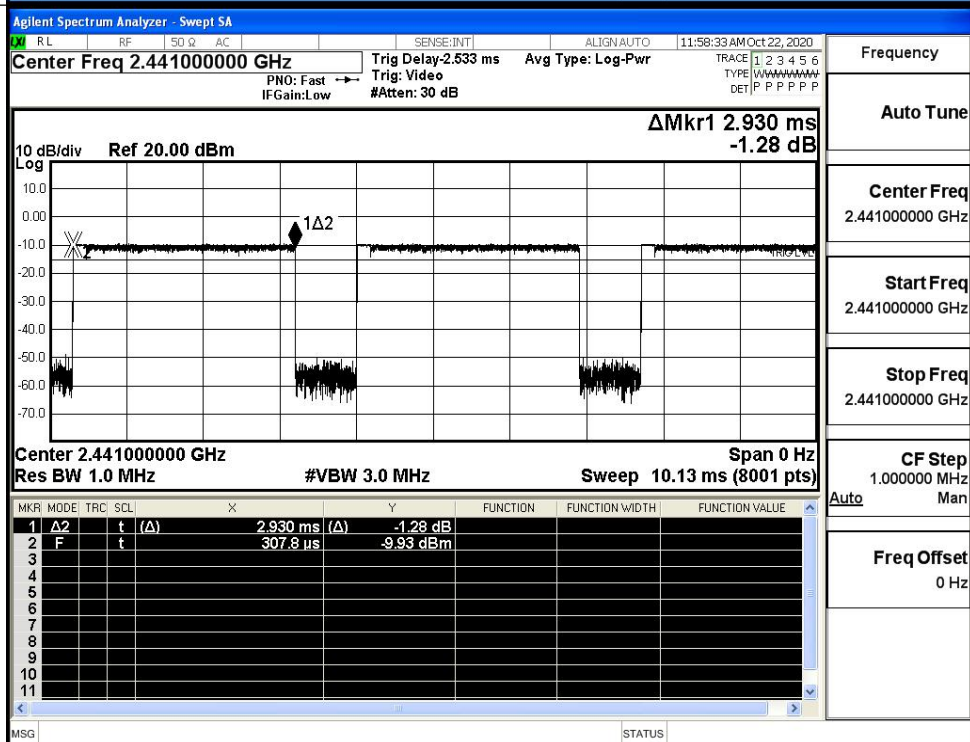
GFSK_DH5/HCH



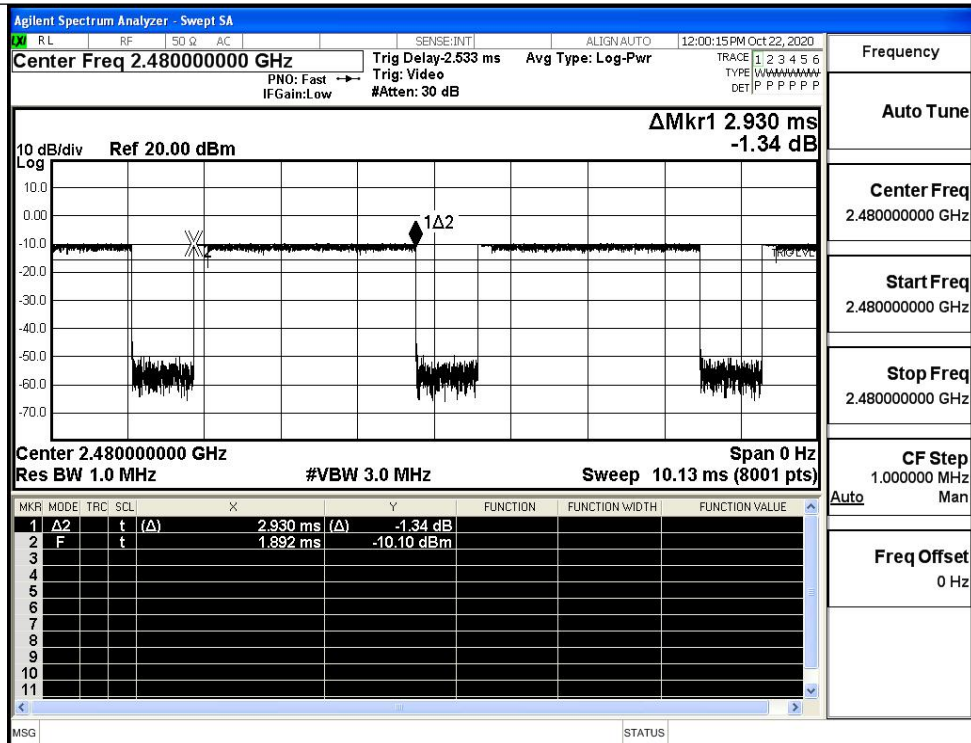
$\pi/4$ DQPSK
_2DH5/LCH



$\pi/4$ DQPSK
_2DH5/MCH



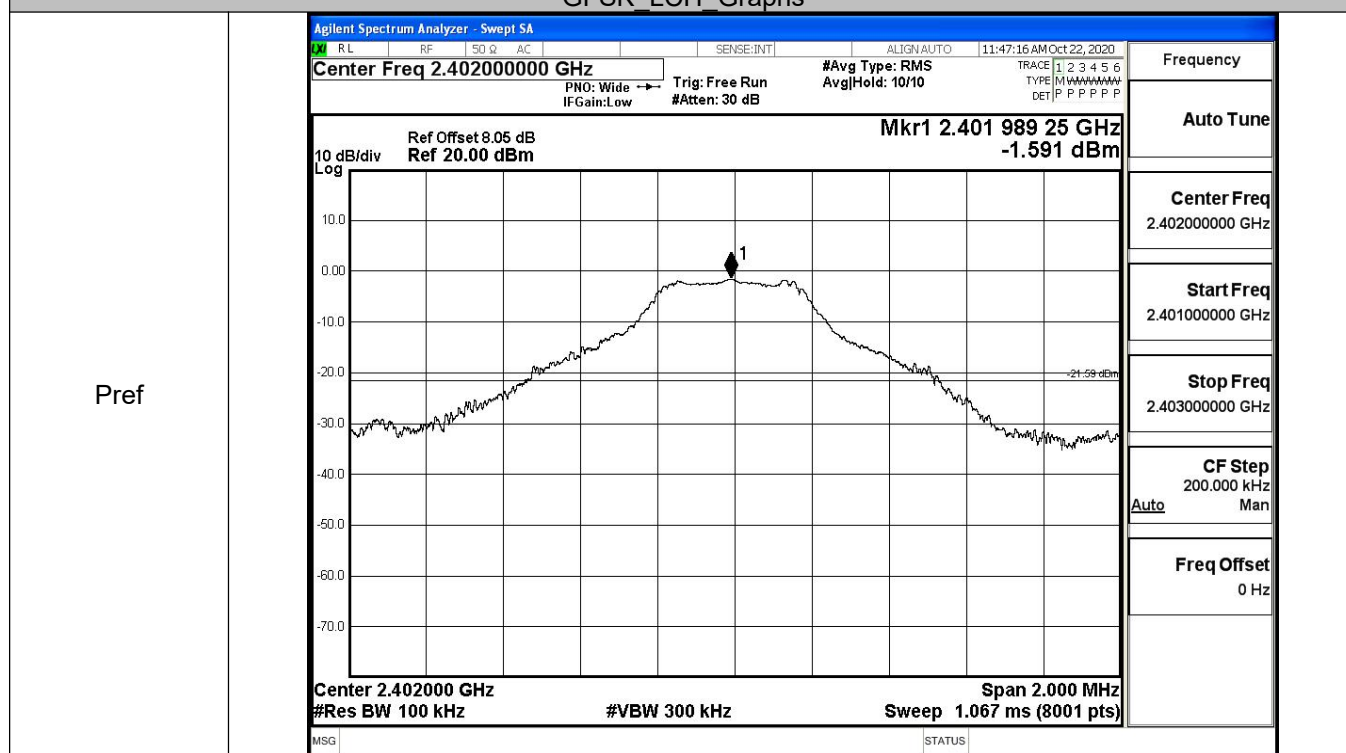
π/4DQPSK
_2DH5/HCH



A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-1.591	-37.115	-21.591	PASS
	MCH	-2.023	-37.328	-22.023	PASS
	HCH	-2.045	-37.345	-22.045	PASS
$\pi/4$ DQPSK	LCH	-1.804	-36.687	-21.804	PASS
	MCH	-1.829	-36.790	-21.829	PASS
	HCH	-2.372	-36.838	-22.372	PASS

GFSK LCH Graphs



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