

Appendix A

RF Test Data for BT V4.2(BDR/EDR) (Conducted Measurement)

Product Name: Beebar Speaker Microphone

Trade Mark: Beebar

Test Model: G2

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

A.1 Maximum Conducted Peak Output Power

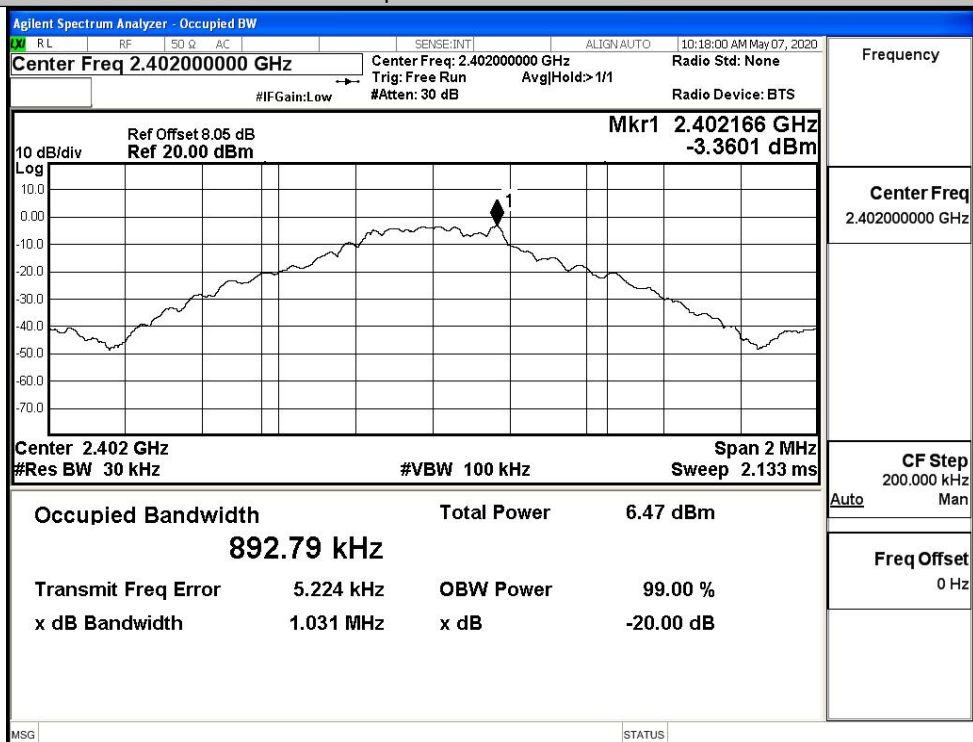
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-0.890	21	PASS
	MCH	-0.629	21	PASS
	HCH	-0.282	21	PASS
$\pi/4$ DQPSK	LCH	-1.038	21	PASS
	MCH	-0.312	21	PASS
	HCH	-0.876	21	PASS
8DPSK	LCH	-0.989	21	PASS
	MCH	-0.719	21	PASS
	HCH	-0.452	21	PASS

A.2 20dB Bandwidth

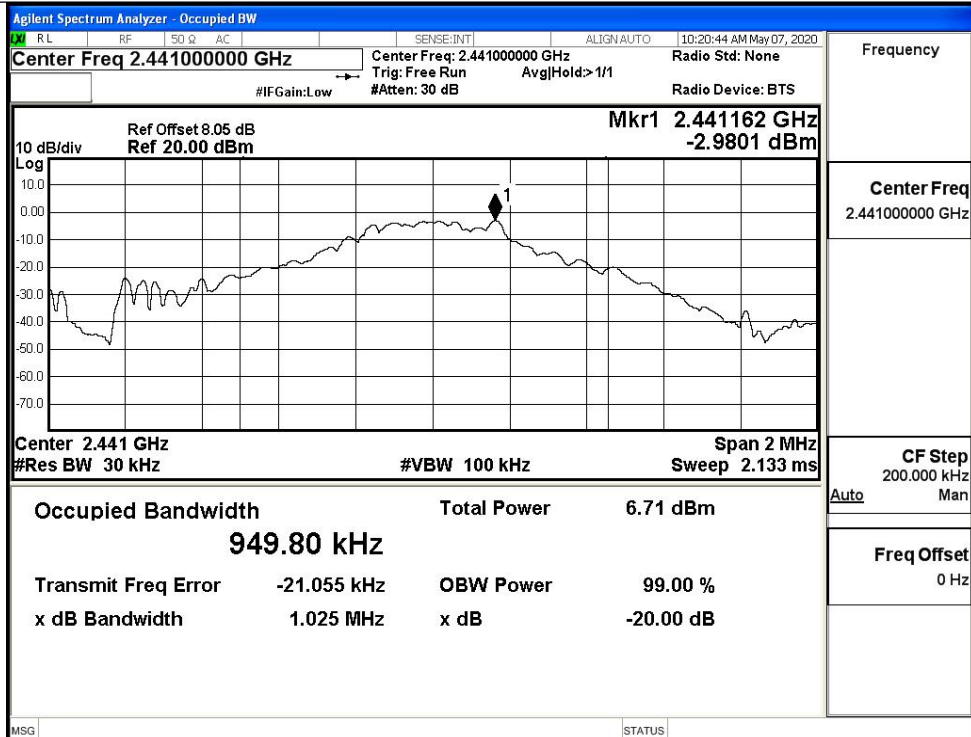
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	1.031	Not Specified	PASS
	MCH	1.025	Not Specified	PASS
	HCH	1.029	Not Specified	PASS
$\pi/4$ DQPSK	LCH	1.317	Not Specified	PASS
	MCH	1.293	Not Specified	PASS
	HCH	1.291	Not Specified	PASS
8DPSK	LCH	1.297	Not Specified	PASS
	MCH	1.297	Not Specified	PASS
	HCH	1.294	Not Specified	PASS

Test Graphs

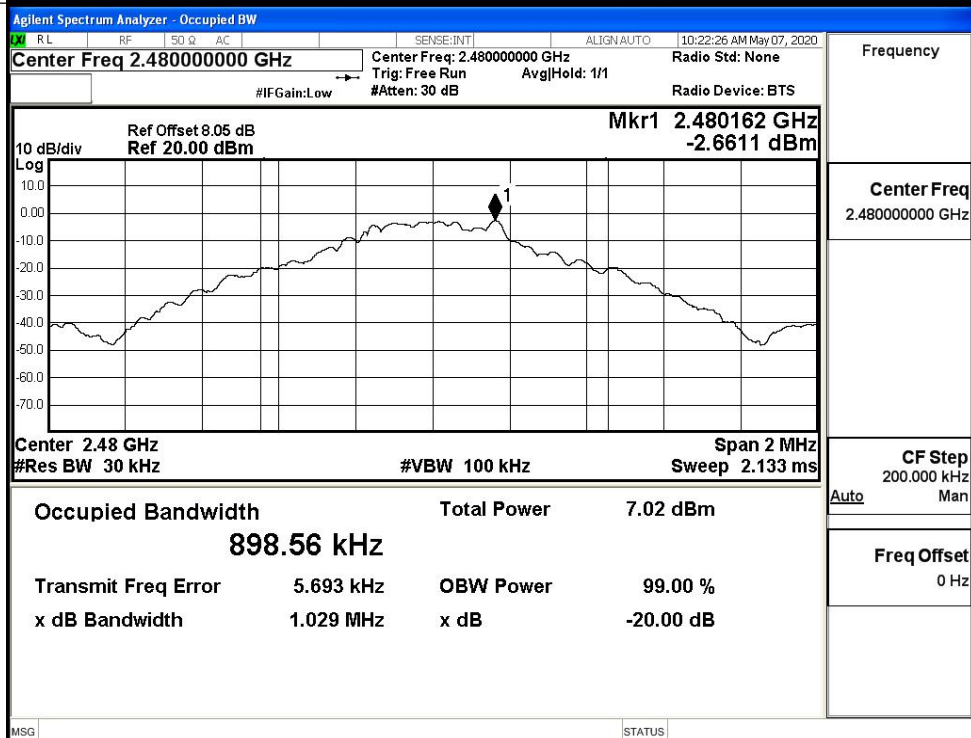
GFSK/LCH

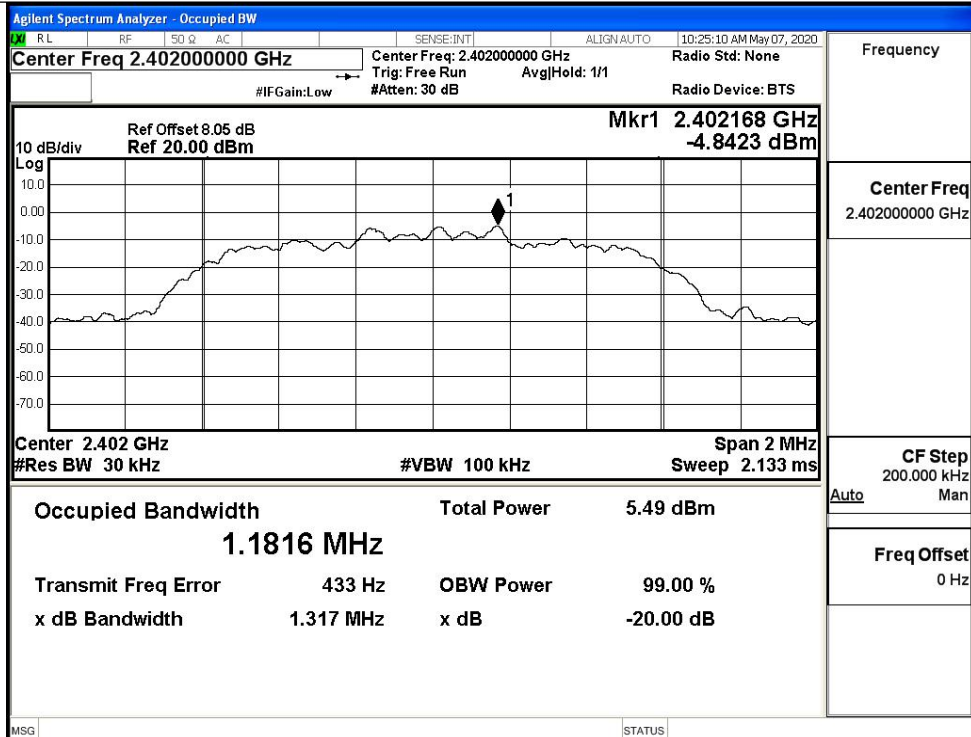
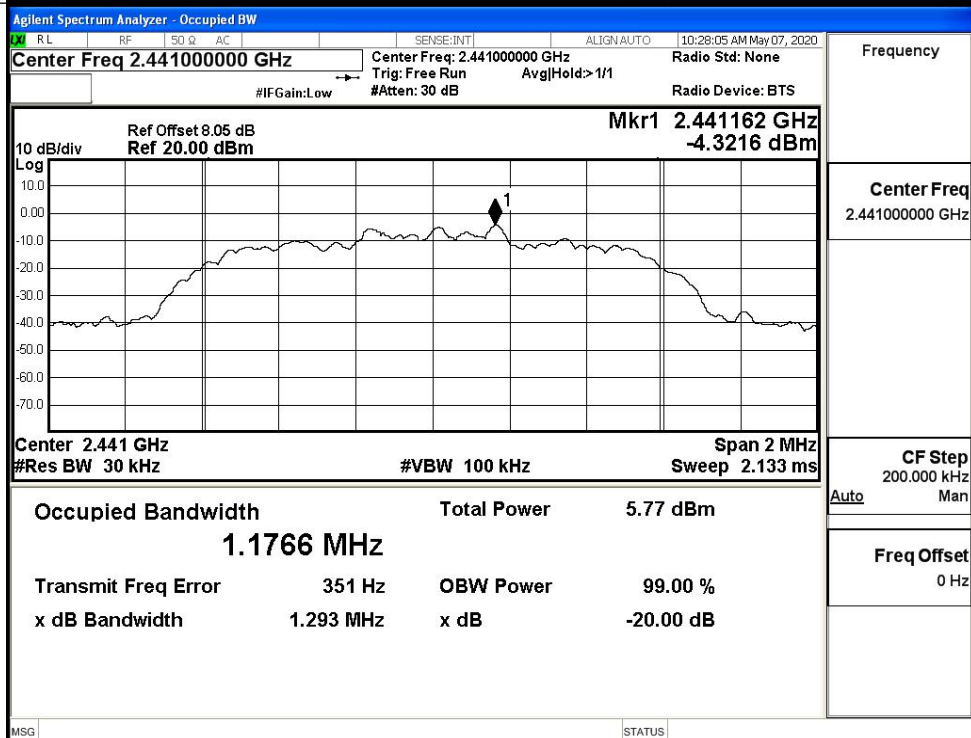


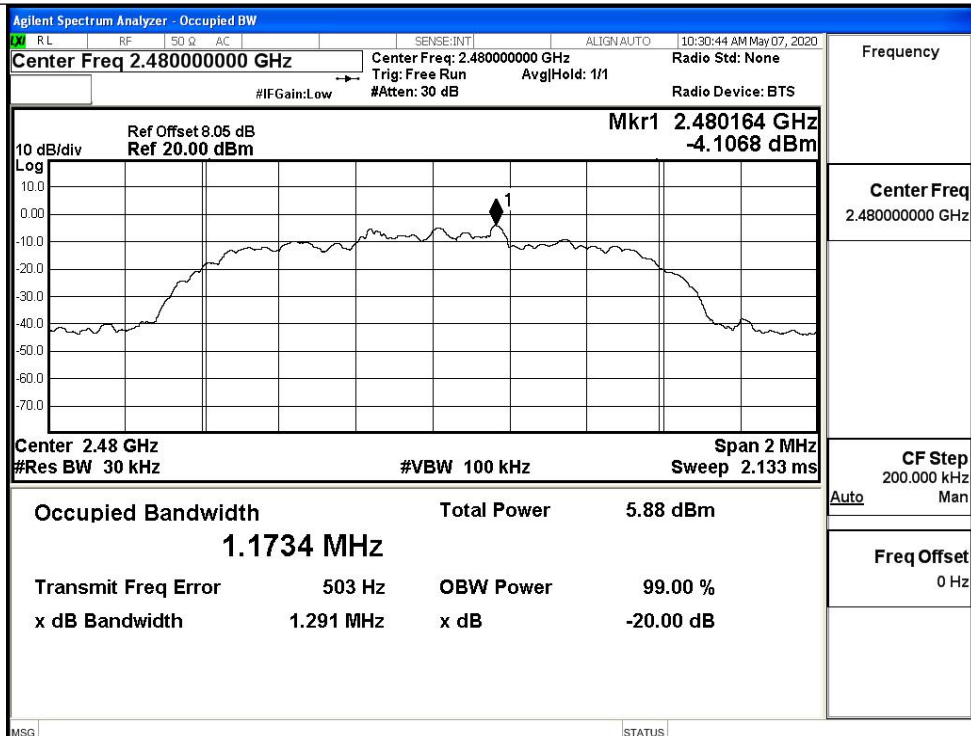
GFSK/MCH



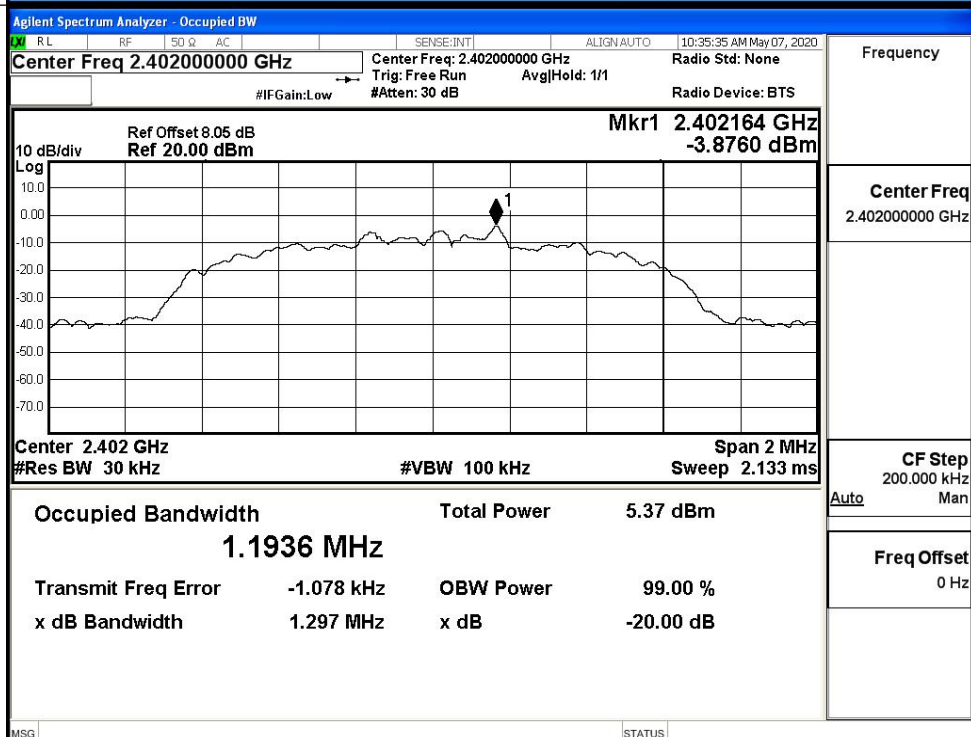
GFSK/HCH



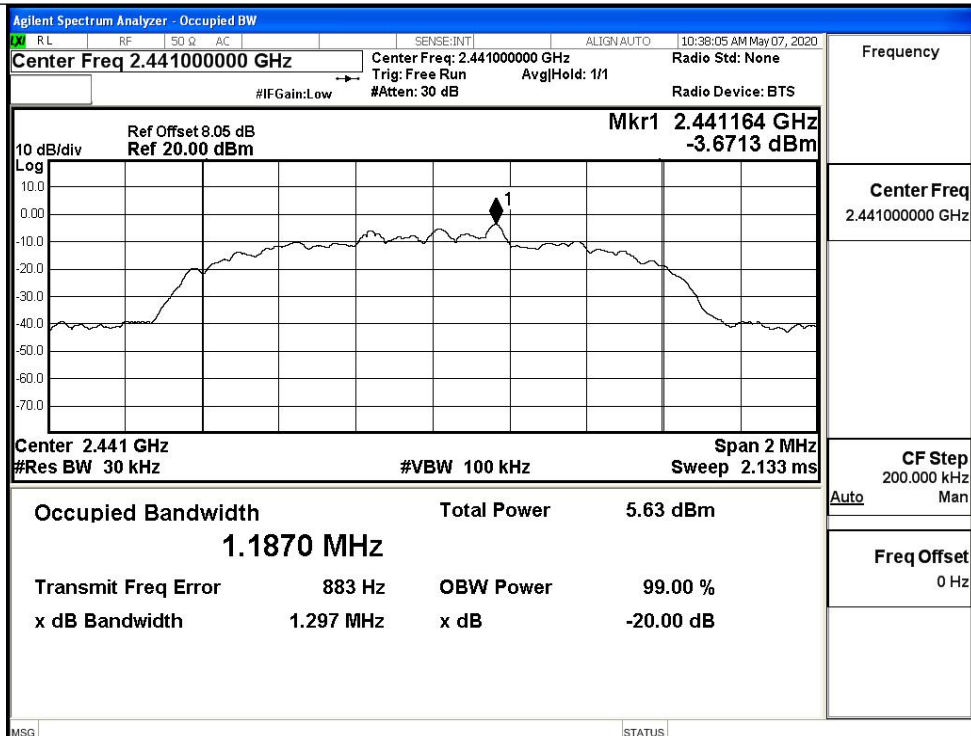
$\pi/4$ DQPSK/LCH $\pi/4$ DQPSK/MCH

$\pi/4$ DQPSK/HCH

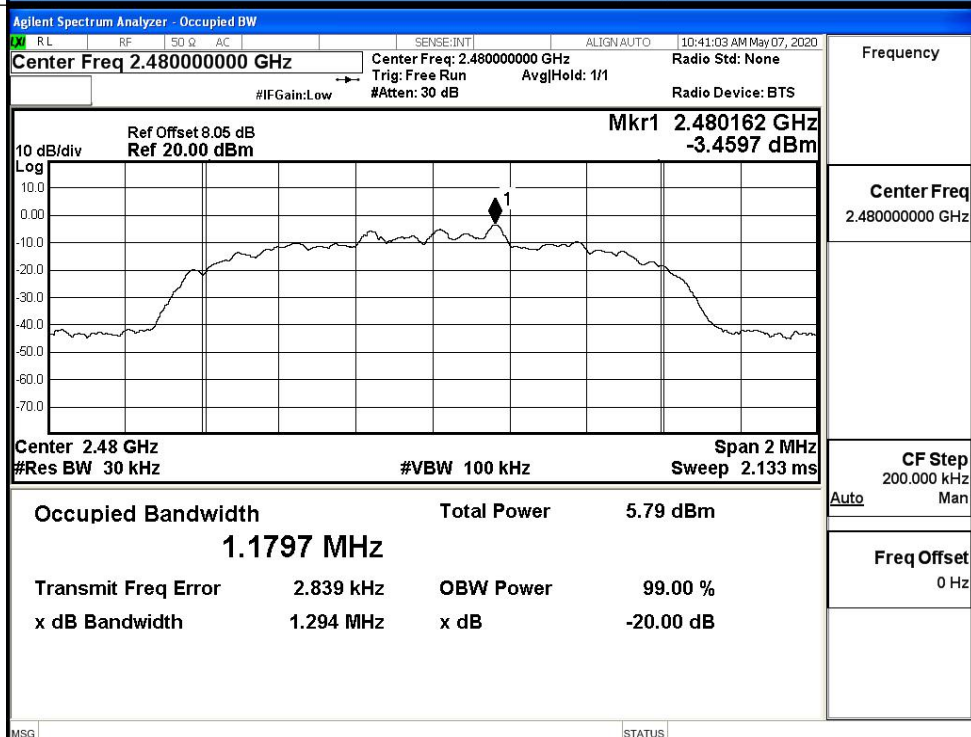
8DPSK/LCH



8DPSK/MCH



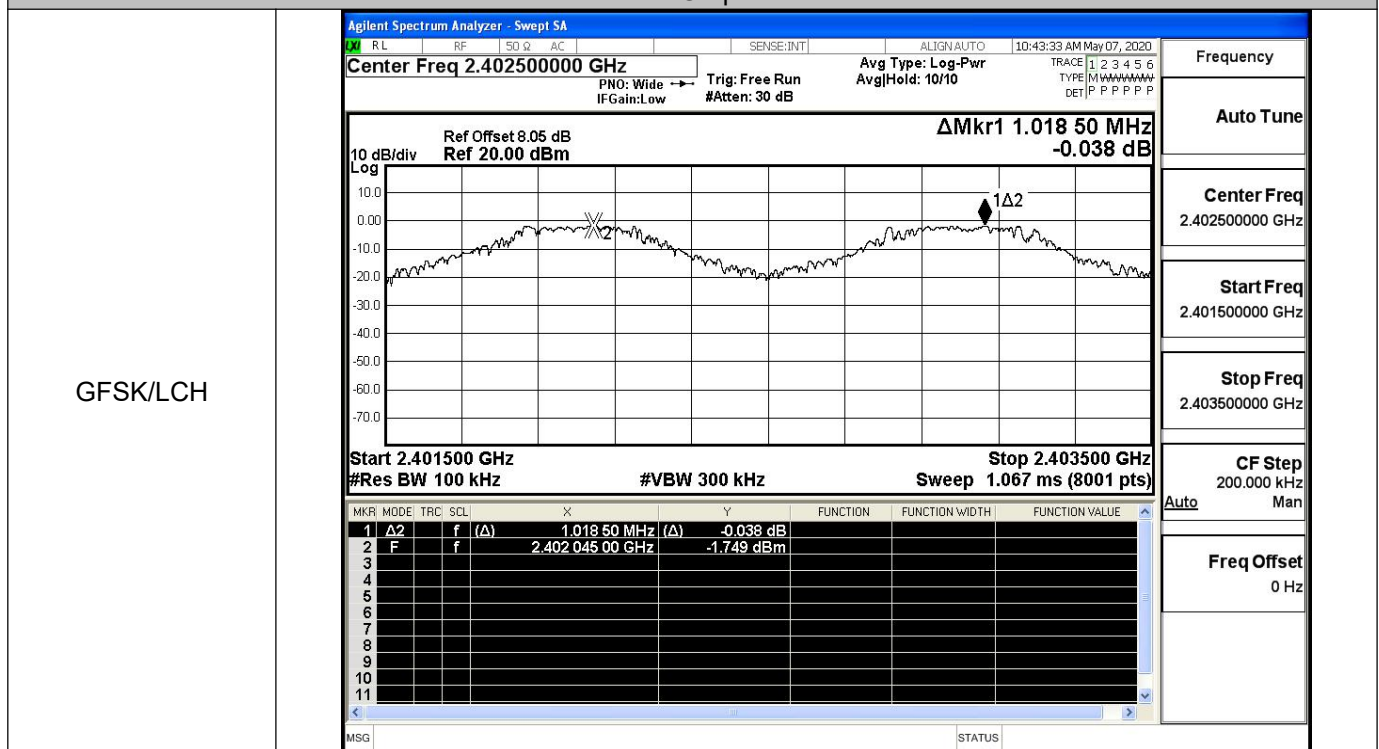
8DPSK/HCH



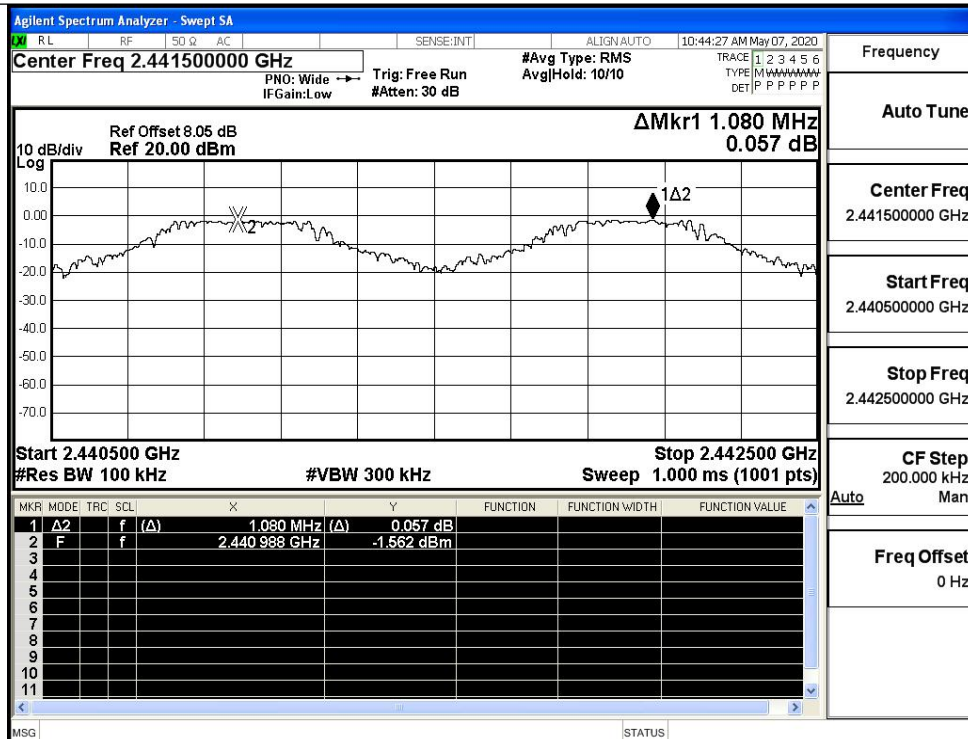
A.3 Carrier Frequency Separation

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	1.019	0.687	PASS
	MCH	1.080	0.687	PASS
	HCH	1.008	0.687	PASS
$\pi/4$ DQPSK	LCH	1.136	0.878	PASS
	MCH	1.774	0.878	PASS
	HCH	1.184	0.878	PASS
8DPSK	LCH	1.012	0.865	PASS
	MCH	1.054	0.865	PASS
	HCH	1.064	0.865	PASS

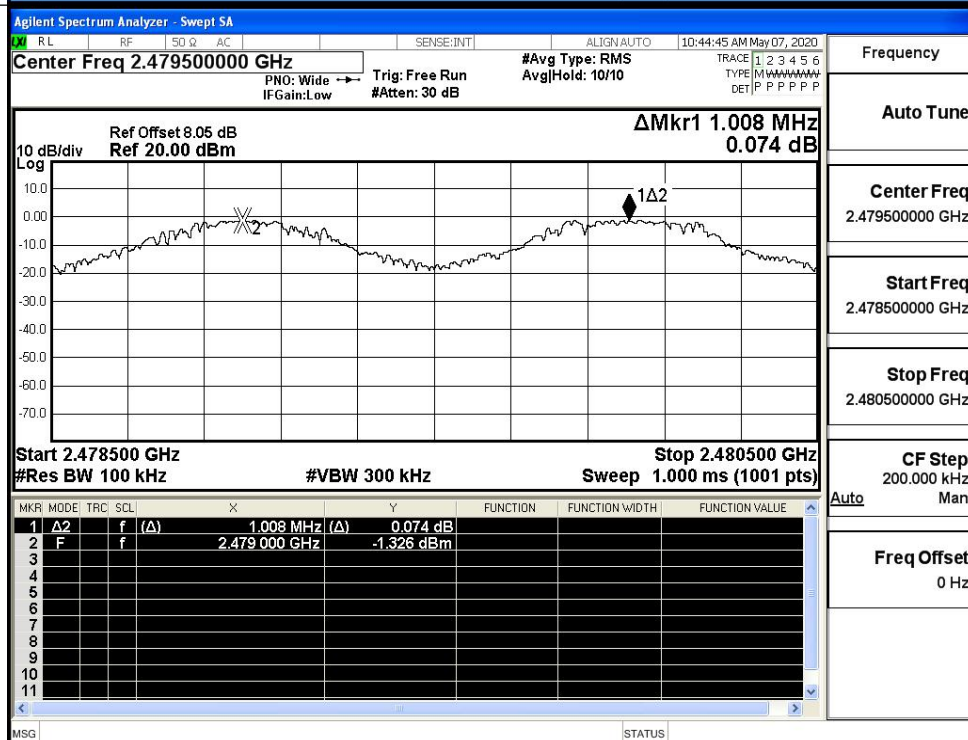
Test Graphs

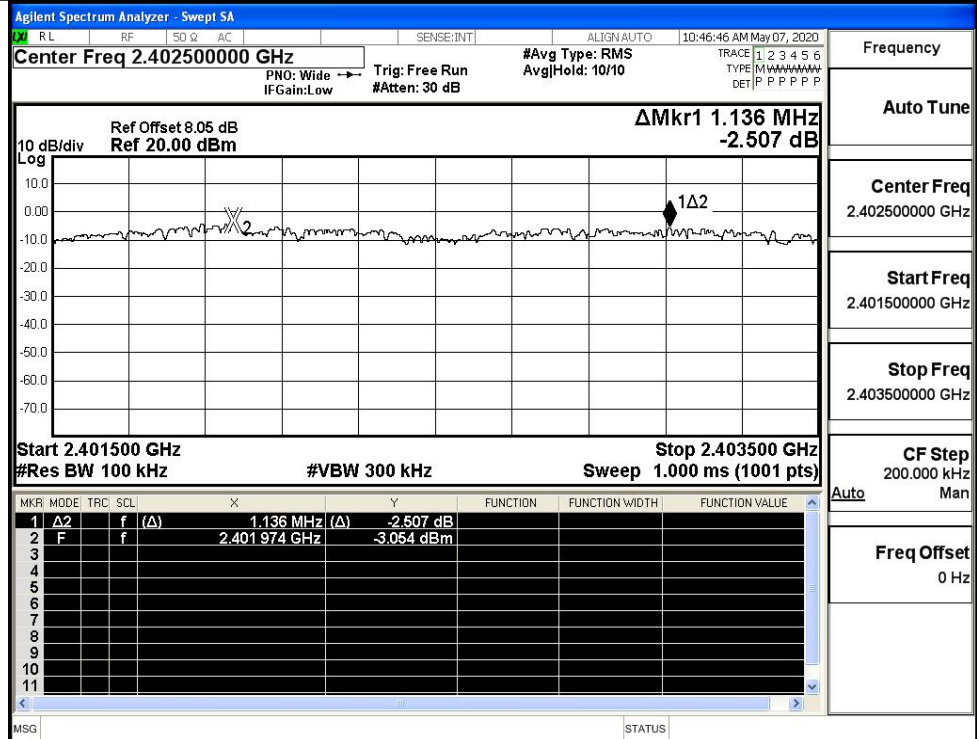
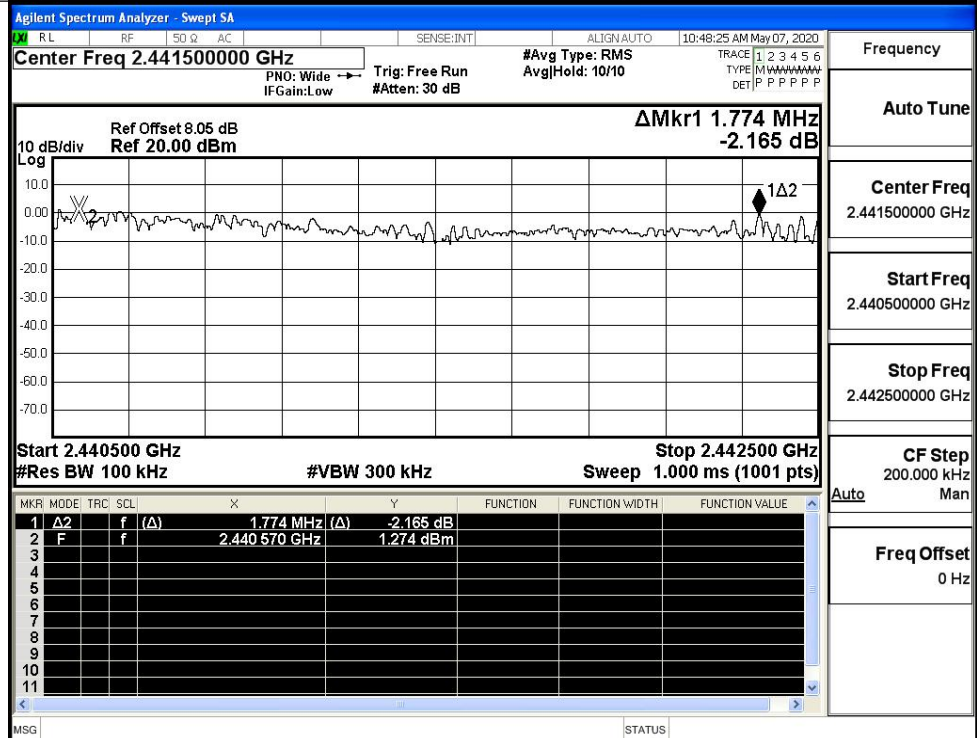


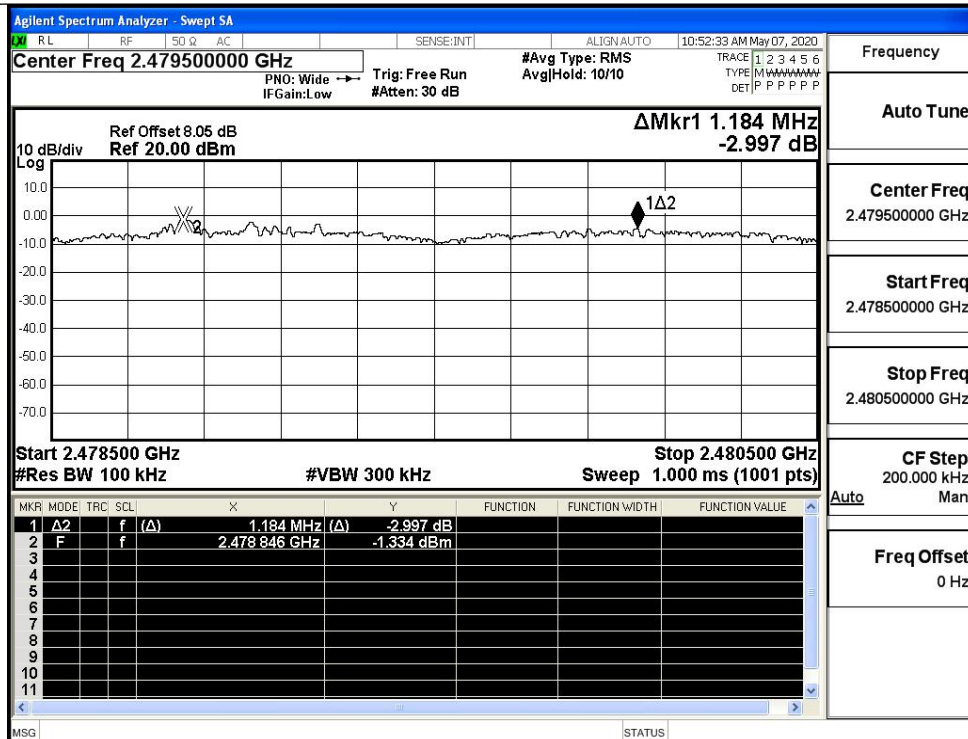
GFSK/MCH



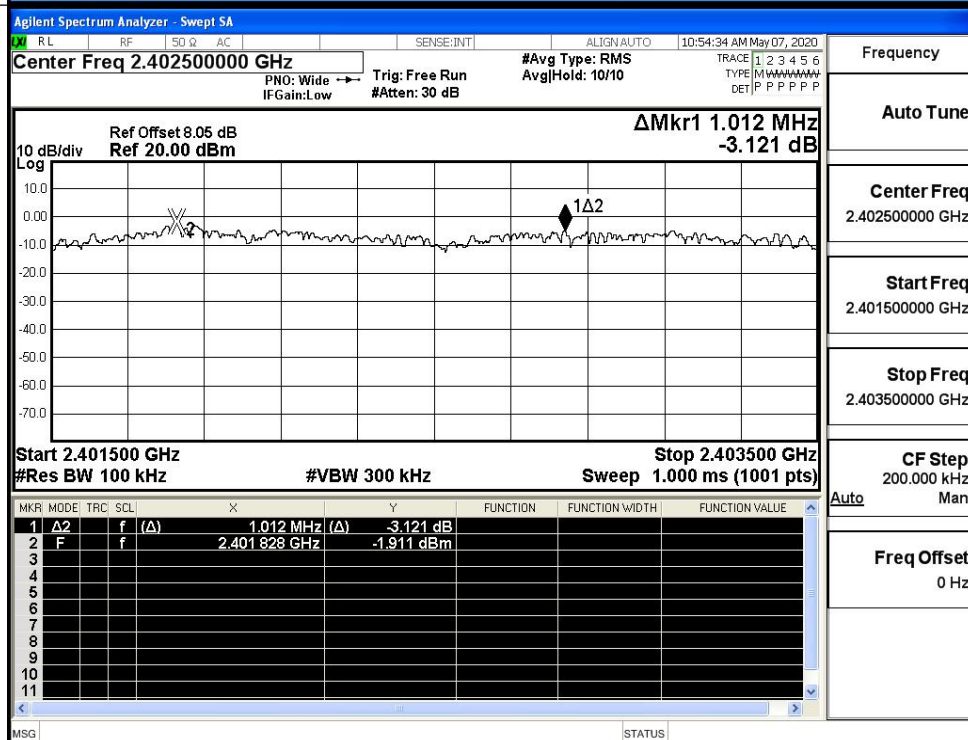
GFSK/HCH



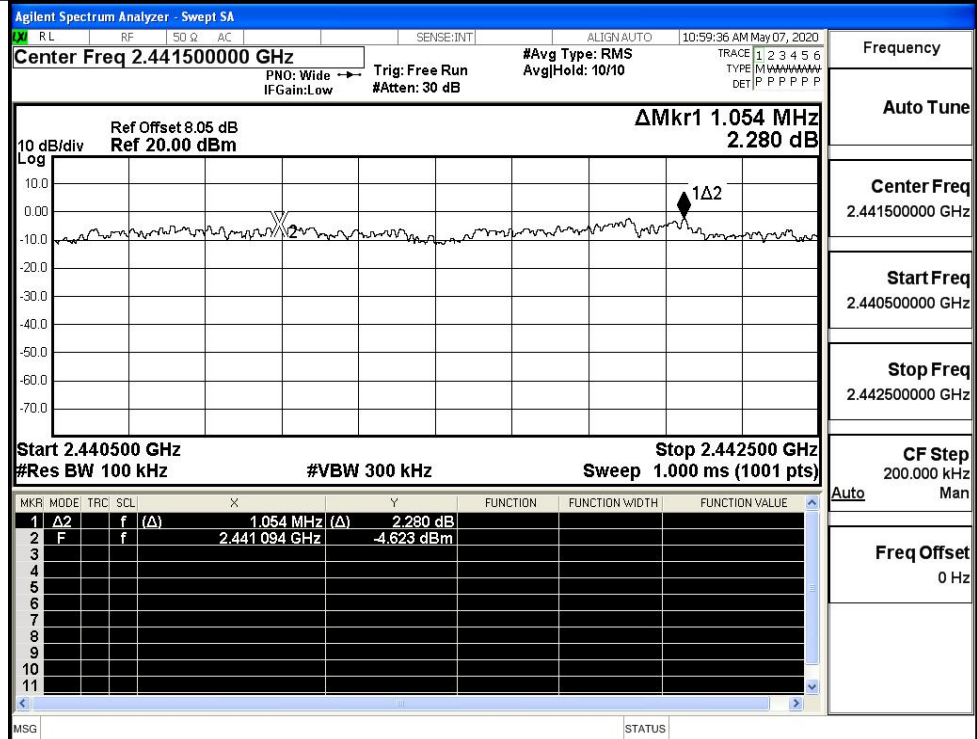
$\pi/4$ DQPSK/LCH $\pi/4$ DQPSK/MCH

$\pi/4$ DQPSK/HCH

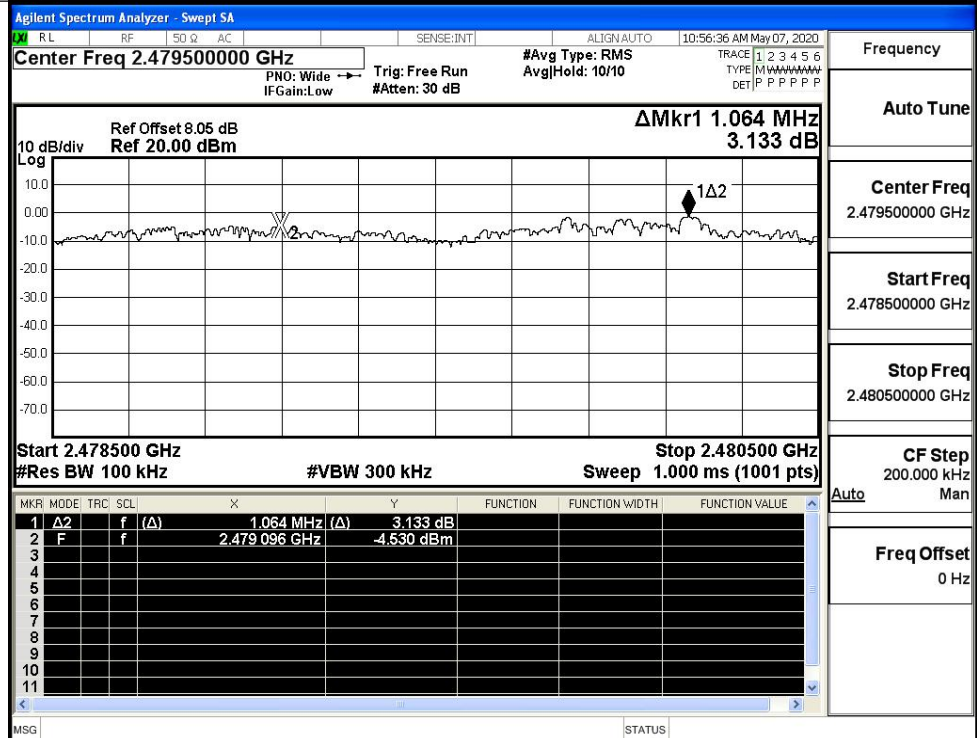
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

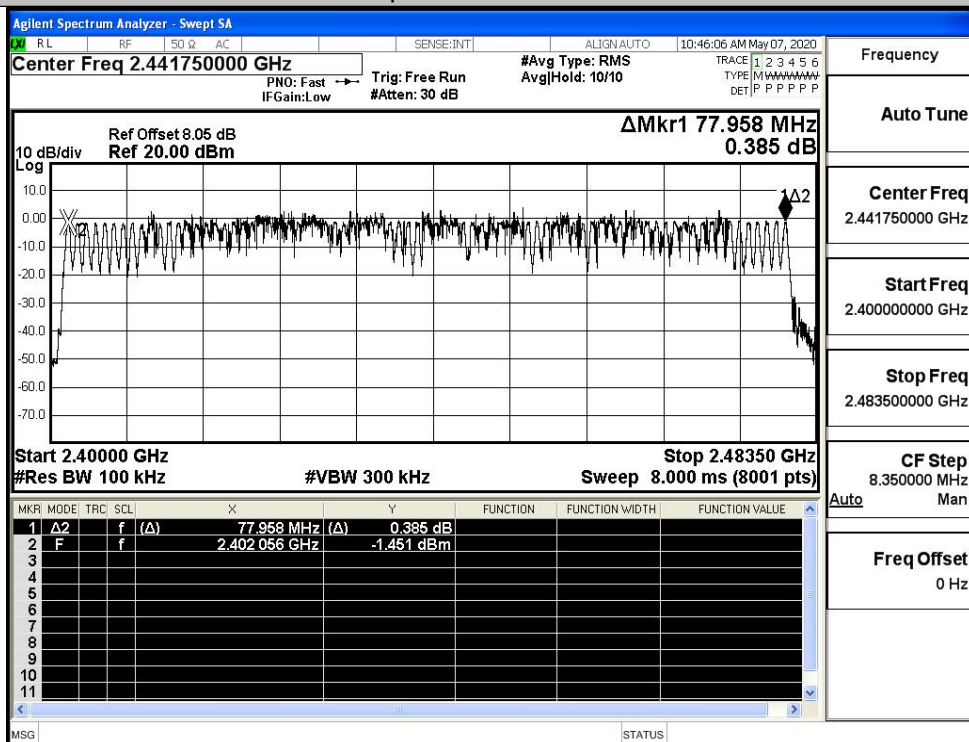
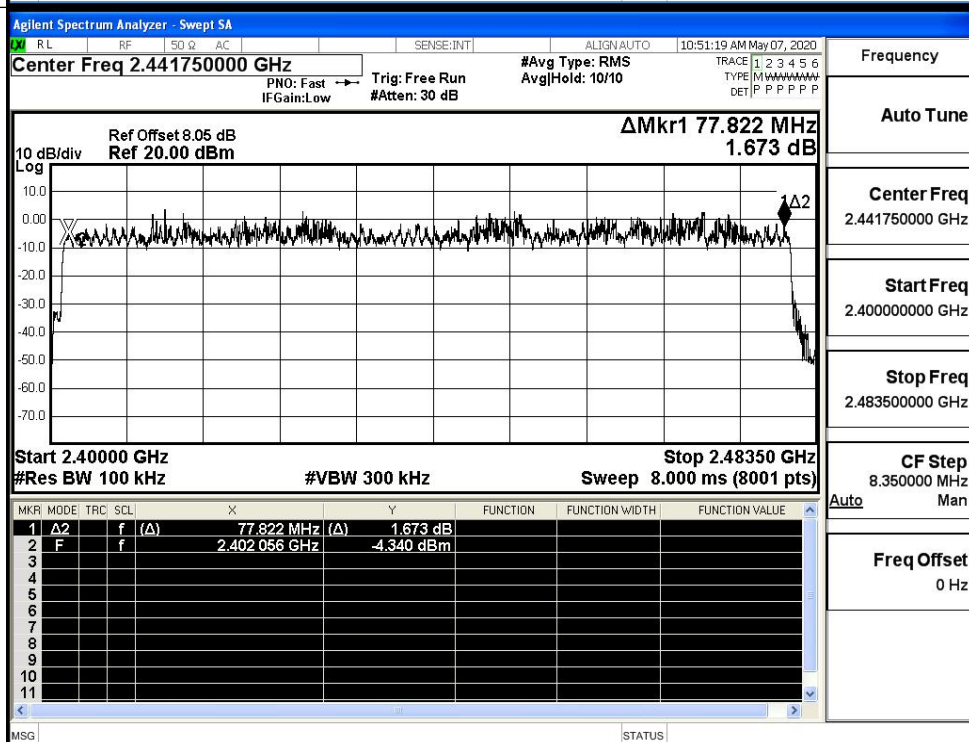


A.4 Hopping Channel Number

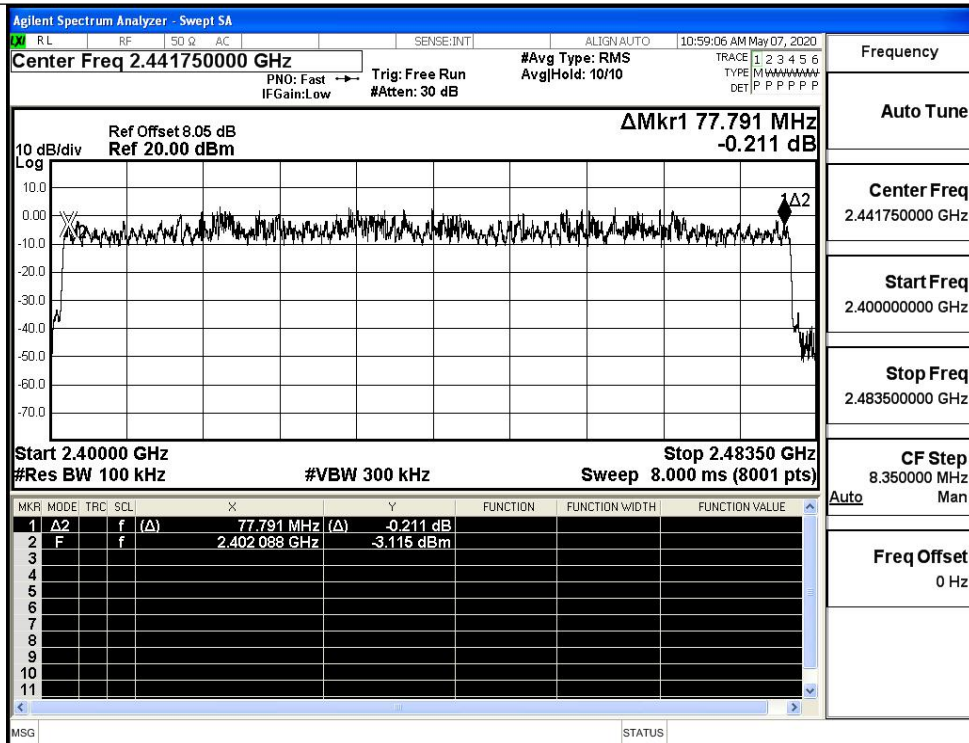
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	>=15	PASS
$\pi/4$ DQPSK	Hop	79	>=15	PASS
8DPSK	Hop	79	>=15	PASS

Test Graphs

GFSK/Hop

 $\pi/4$ DQPSK/Hop

8DPSK/Hop

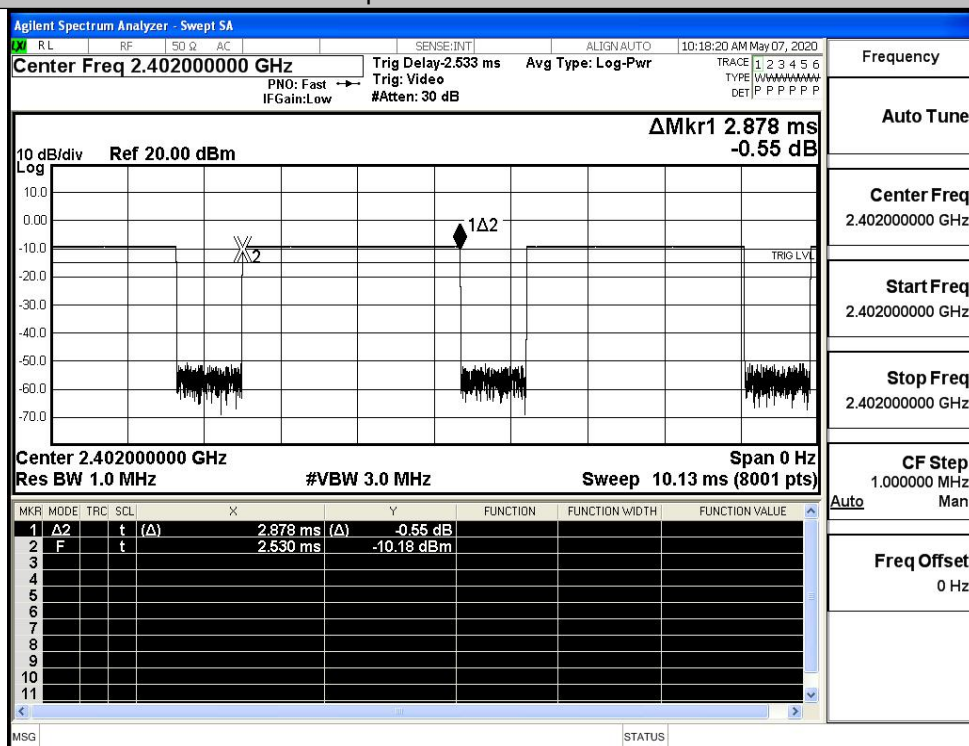


A.5 Dwell Time

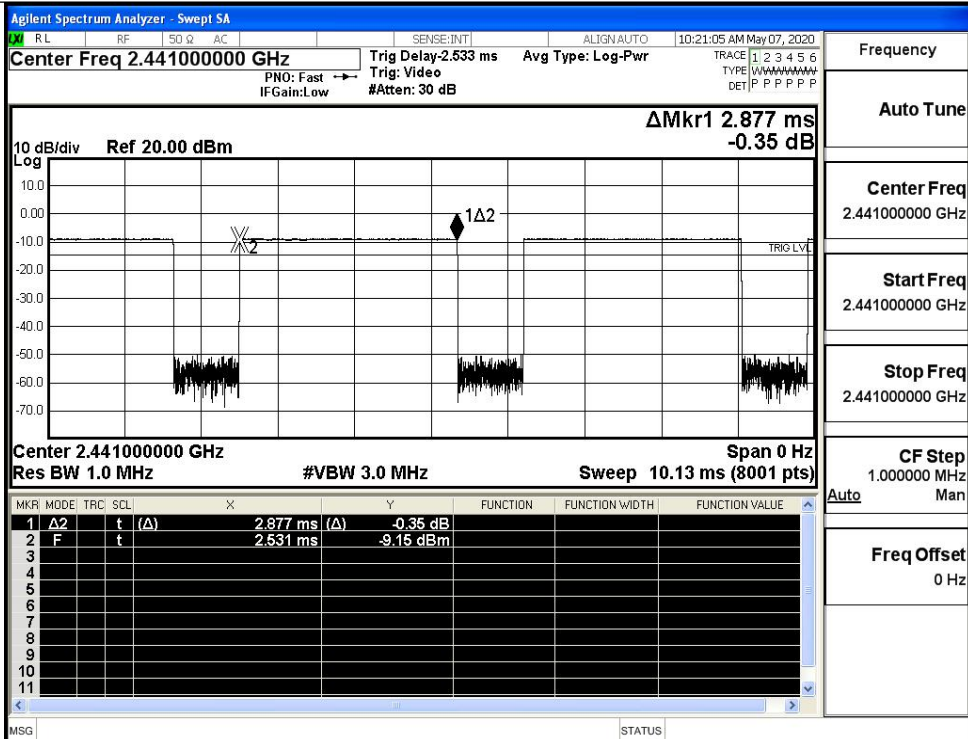
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	2.88	106.7	0.307	0.4	PASS
	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	HCH	2.88	106.7	0.307	0.4	PASS
$\pi/4$ DQPSK	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
	2DH5	MCH	2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	2.88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

Test Graphs

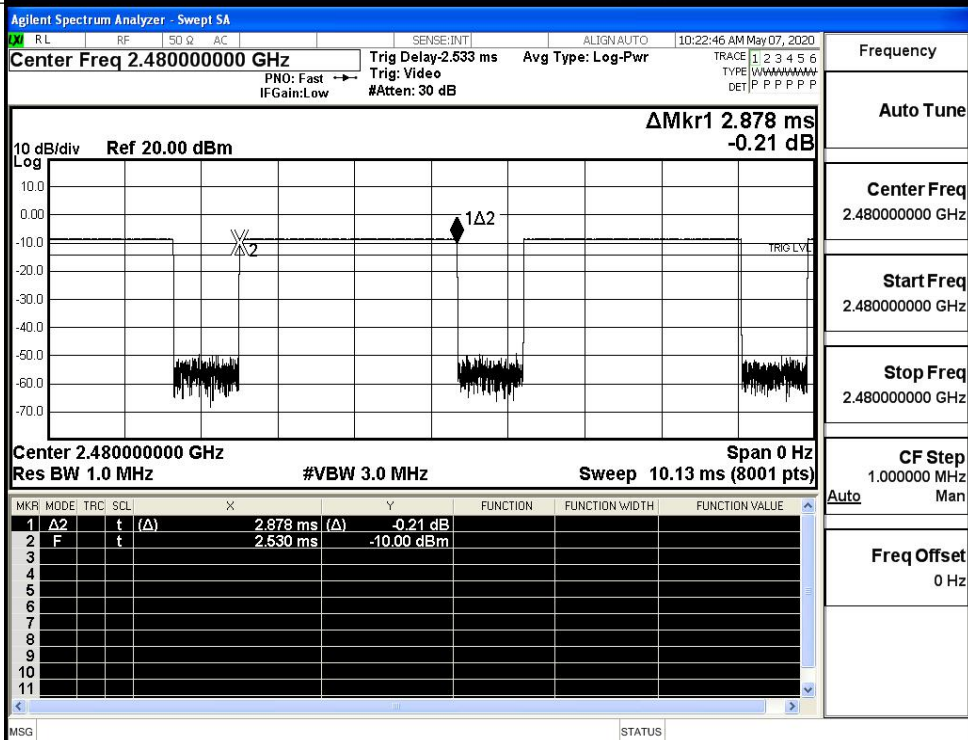
GFSK_DH5/LCH



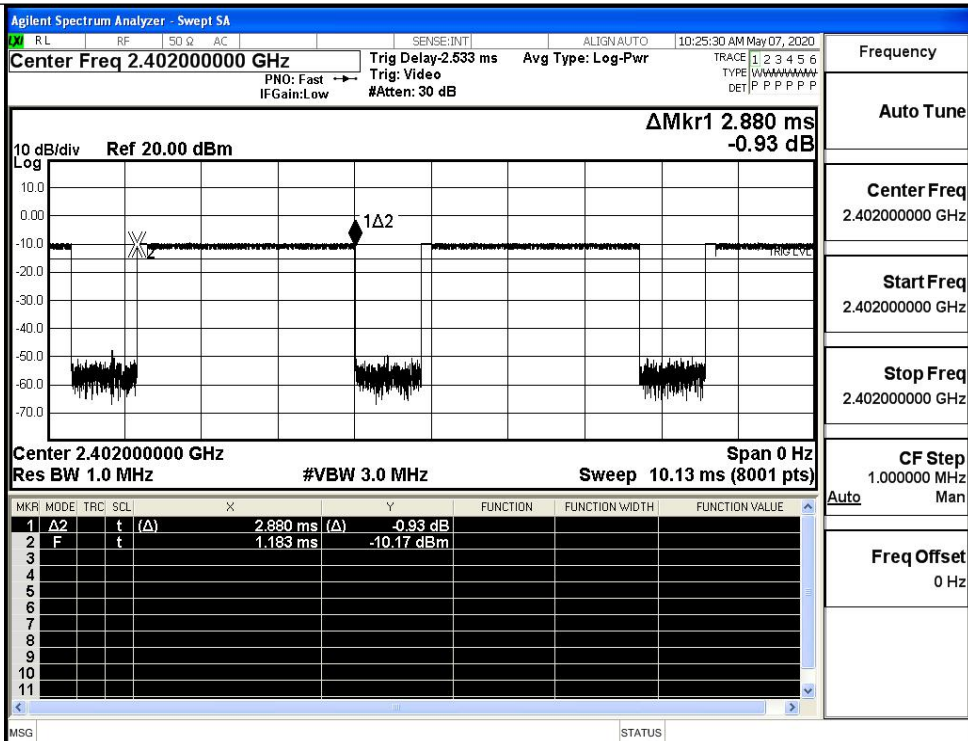
GFSK_DH5/MCH



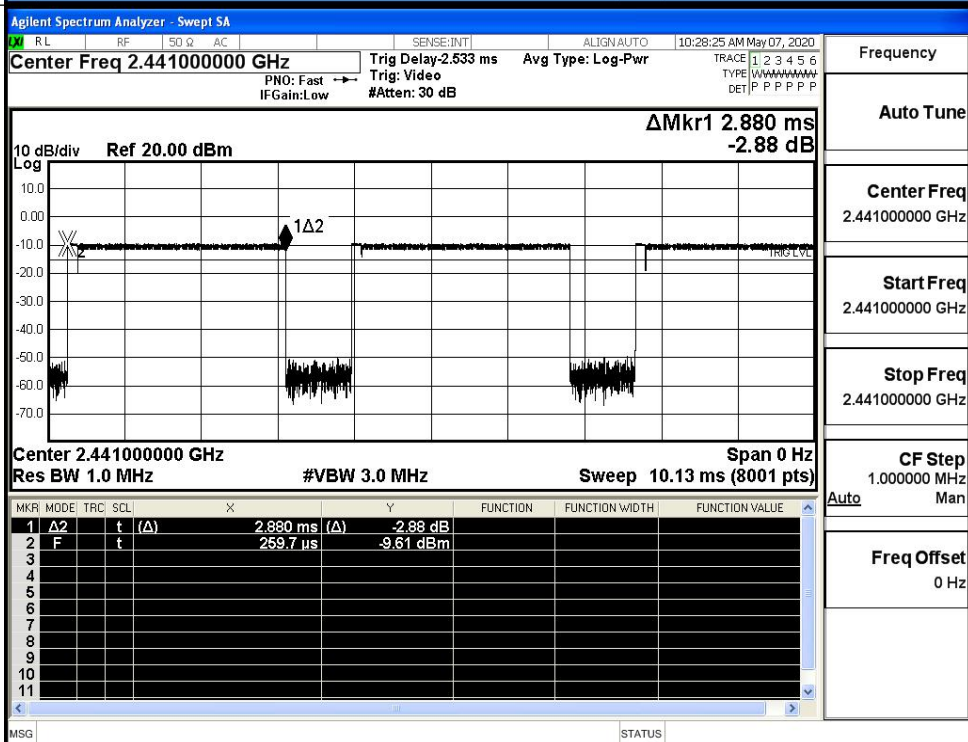
GFSK_DH5/HCH



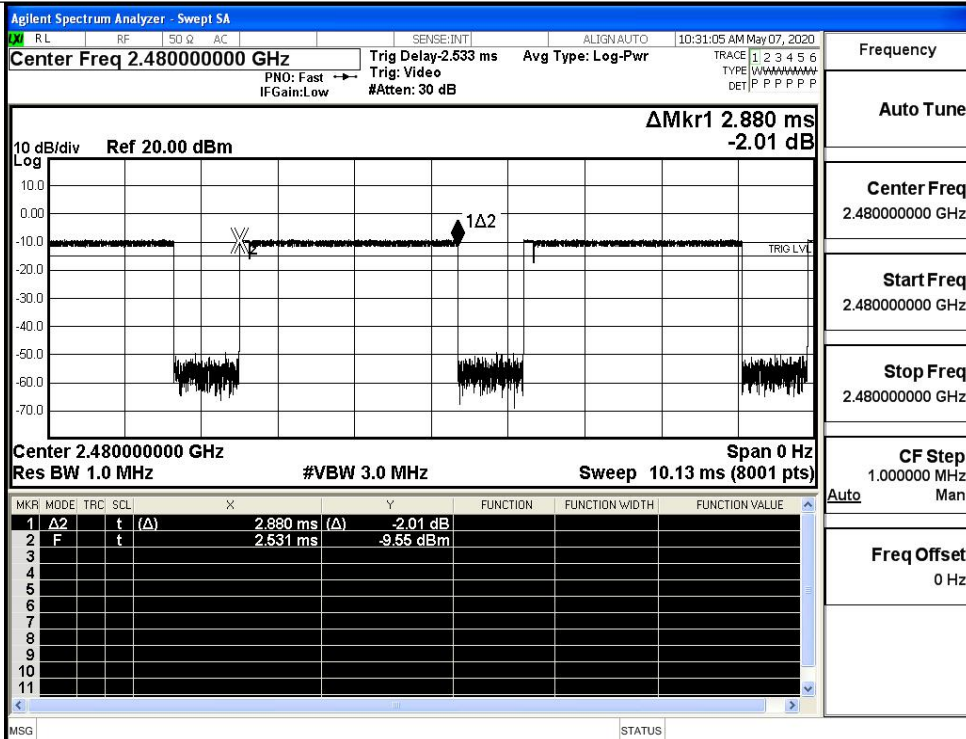
$\pi/4$ DQPSK
_2DH5/LCH



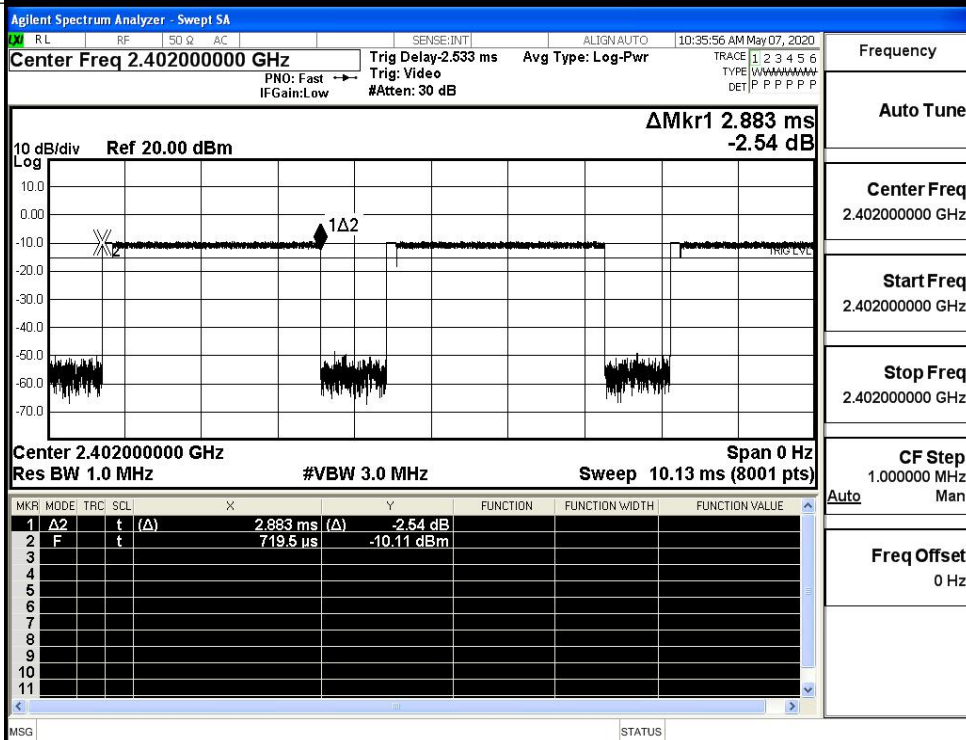
$\pi/4$ DQPSK
_2DH5/MCH



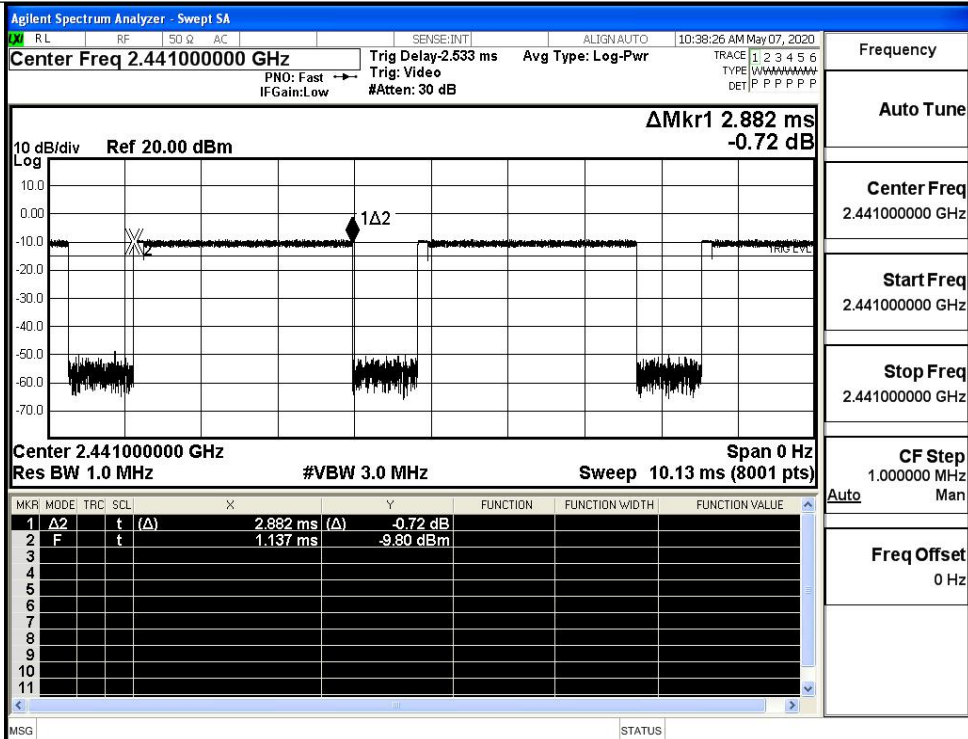
$\pi/4$ DQPSK
_2DH5/HCH



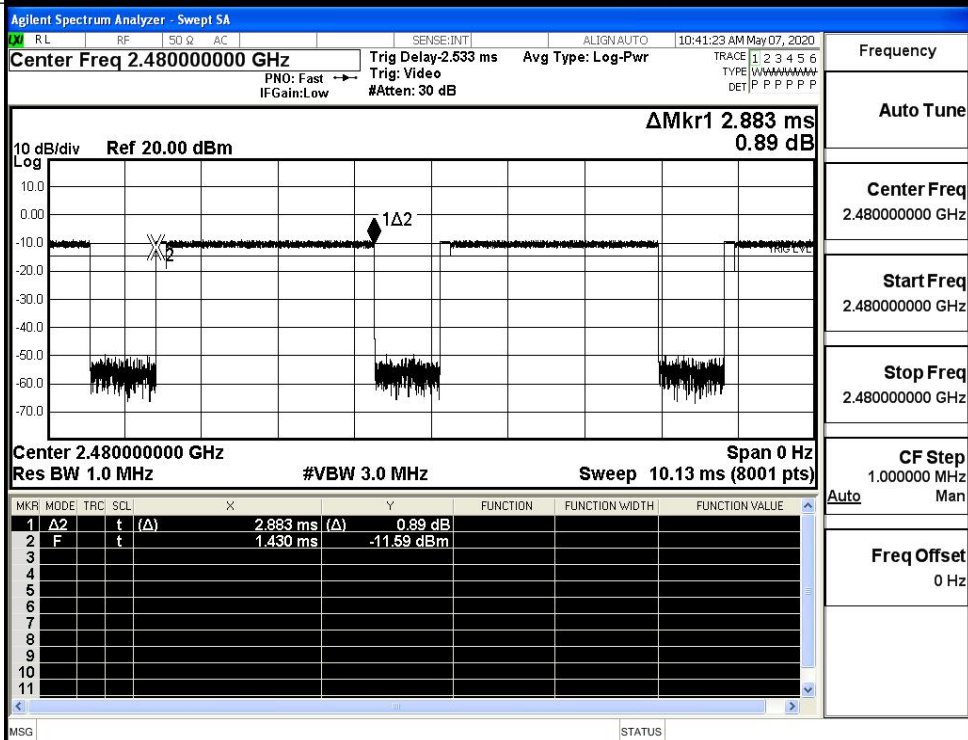
8DPSK _3DH5/LCH



8DPSK_3DH5/MCH



8DPSK_3DH5/HCH

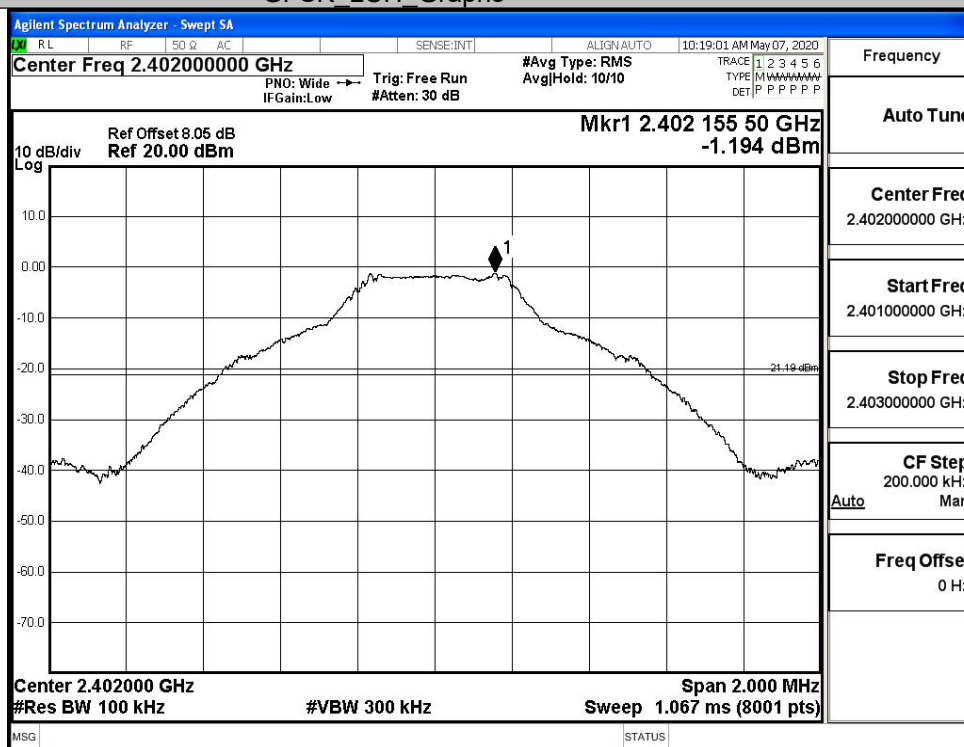


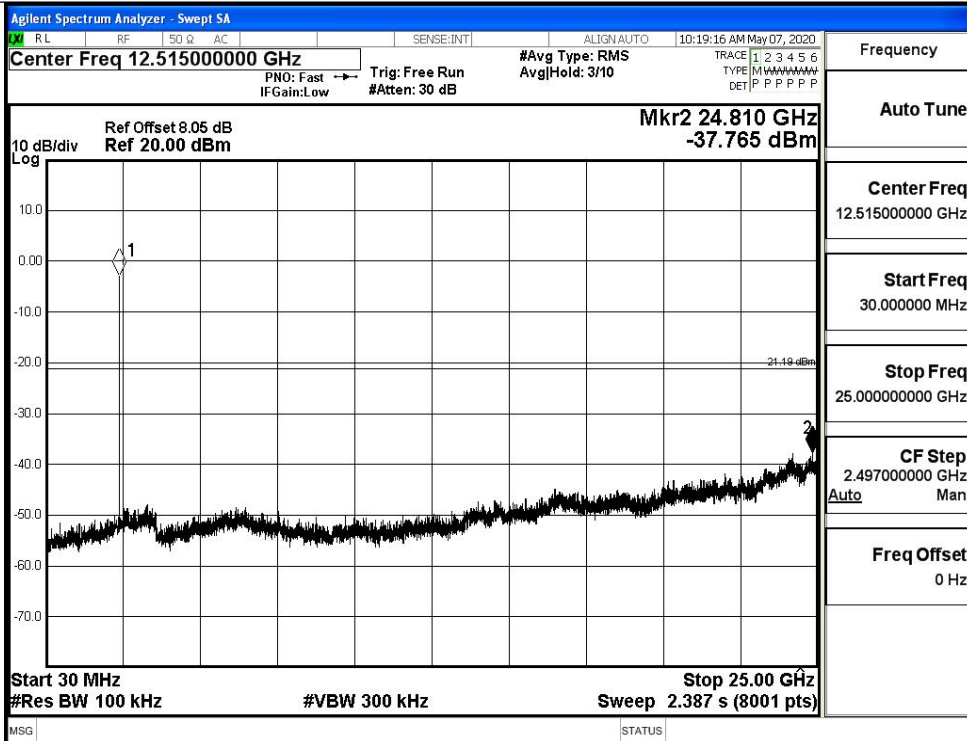
A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-1.194	-37.765	-21.194	PASS
	MCH	-0.924	-37.875	-20.924	PASS
	HCH	-0.656	-37.775	-20.656	PASS
$\pi/4$ DQPSK	LCH	-1.709	-37.898	-21.709	PASS
	MCH	-1.521	-37.094	-21.521	PASS
	HCH	-1.469	-37.219	-21.469	PASS
8DPSK	LCH	-1.77	-37.128	-21.770	PASS
	MCH	-1.594	-38.518	-21.594	PASS
	HCH	-1.452	-36.643	-21.452	PASS

GFSK LCH Graphs

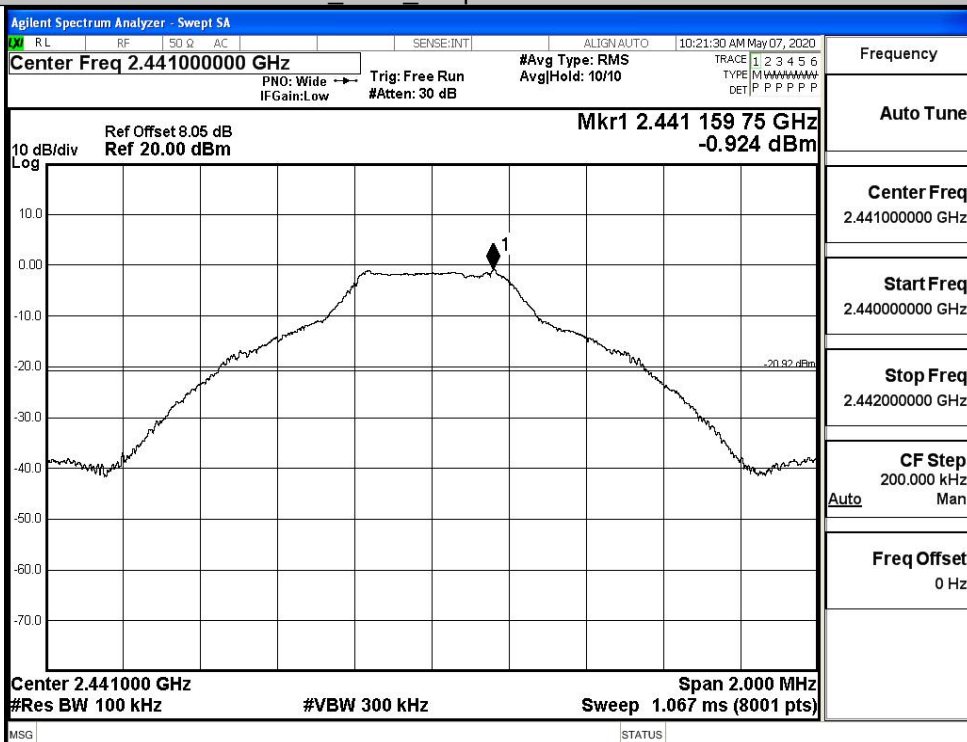
Pref



P_u

GFSK_MCH_Graphs

Pref



Puw

