

Appendix A

RF Test Data for BT V4.0(BDR/EDR) (Conducted Measurement)

Product Name: Camcorder

Trade Mark: 

Test Model: DSJ-AI

Environmental Conditions

Temperature:	22.5 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Ryan Hu
Supervised by:	Jayden Zhuo

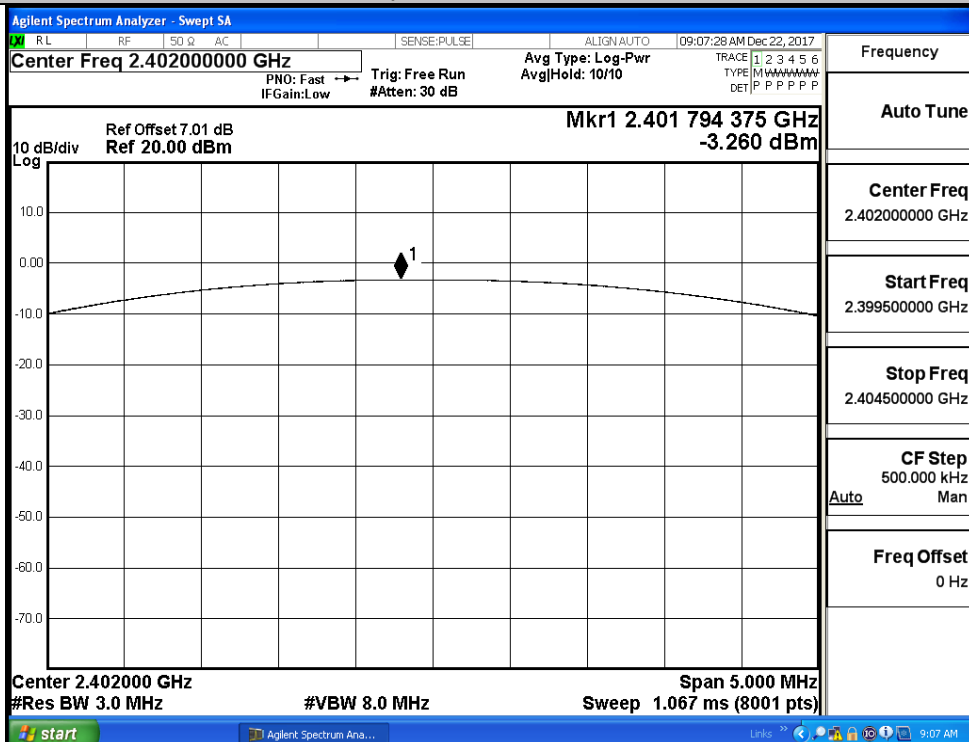
A.1 Maximum Conducted Peak Output Power

Mode	Channel.	Maximum Peak Output Power [dBm]	Maximum Average Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-3.260	-3.384	21	PASS
	MCH	-3.211	-3.355	21	PASS
	HCH	-2.763	-2.841	21	PASS
$\pi/4$ DQPSK	LCH	-3.790	-3.864	21	PASS
	MCH	-3.736	-3.869	21	PASS
	HCH	-3.365	-3.457	21	PASS
8DPSK	LCH	-3.674	-3.694	21	PASS
	MCH	-3.570	-3.697	21	PASS
	HCH	-3.224	-3.368	21	PASS

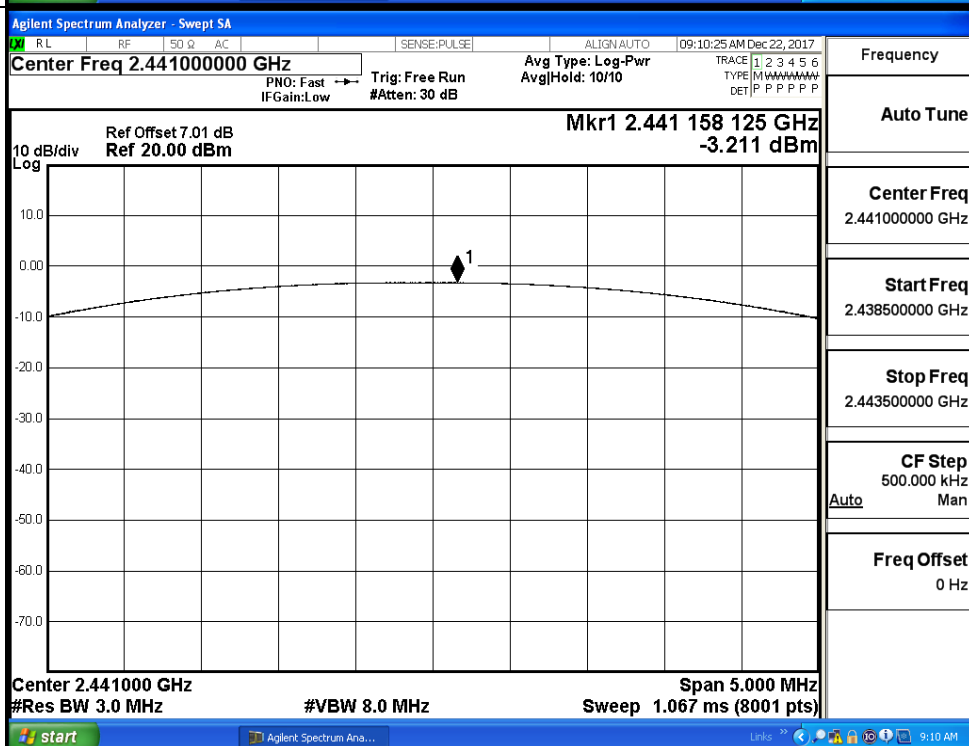
Note: Average power only for report.

Test Graphs

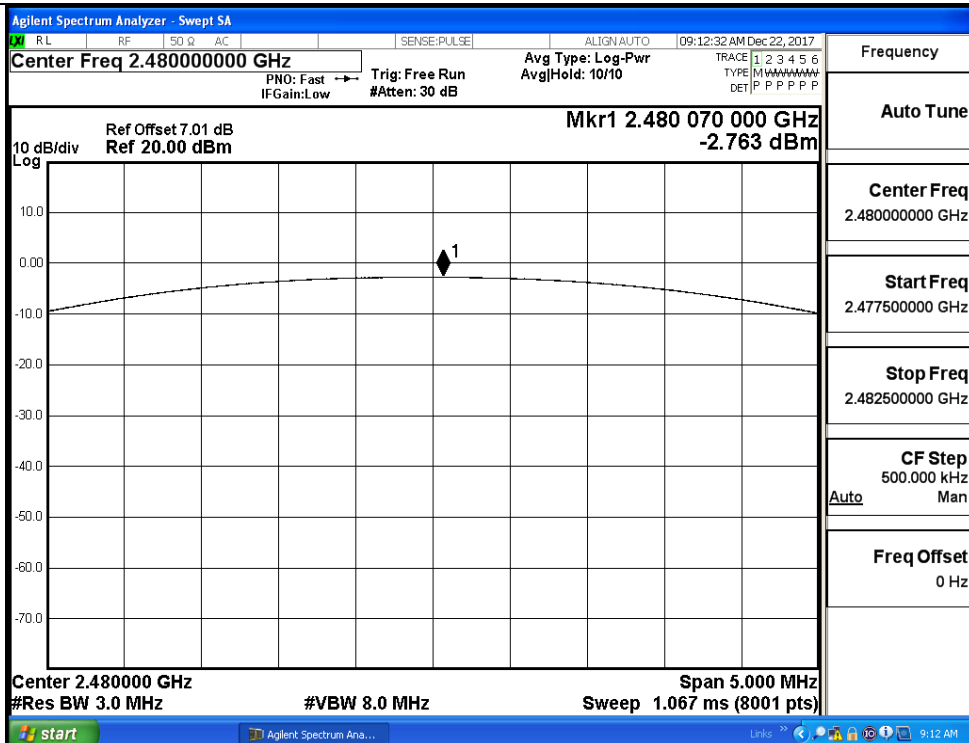
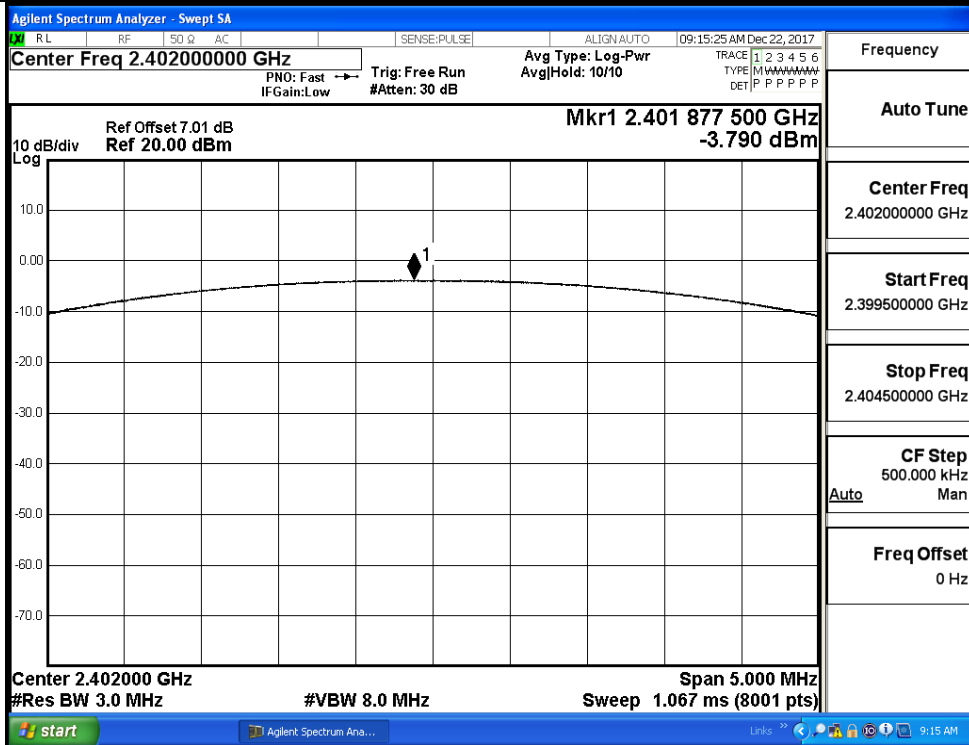
GFSK/LCH

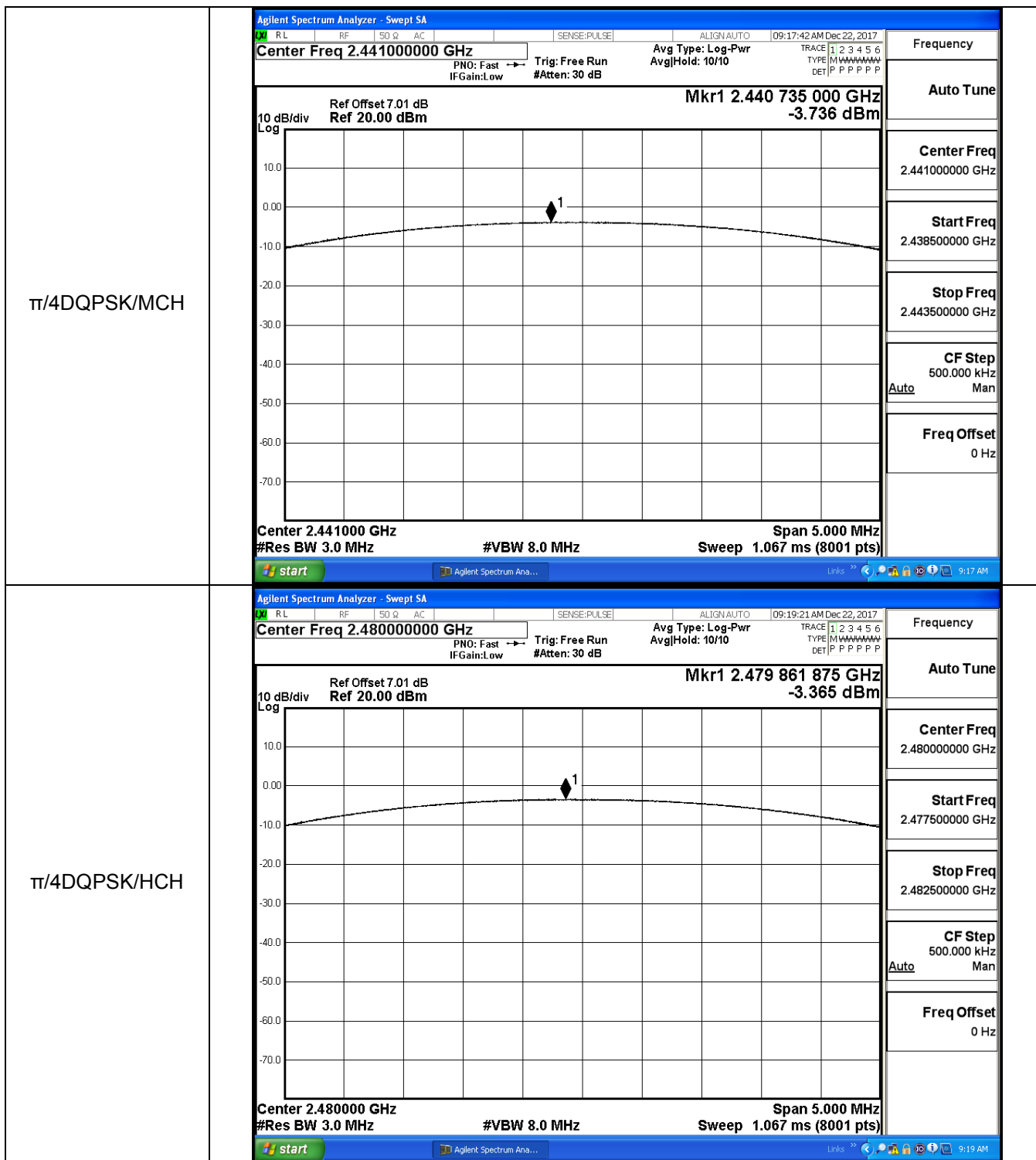


GFSK/MCH

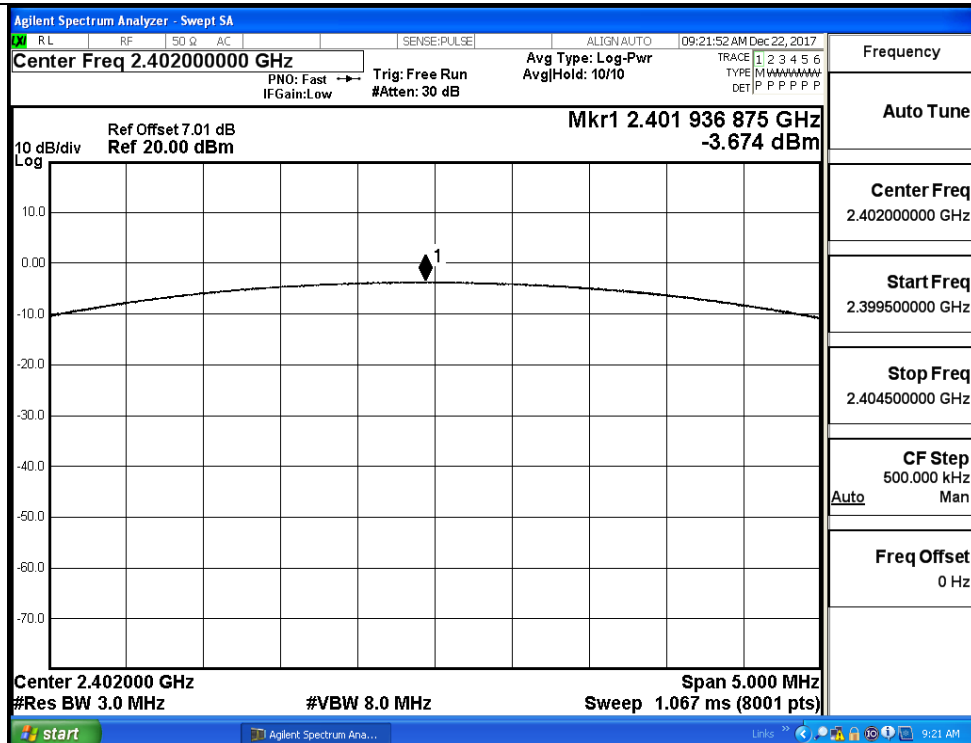


GFSK/HCH

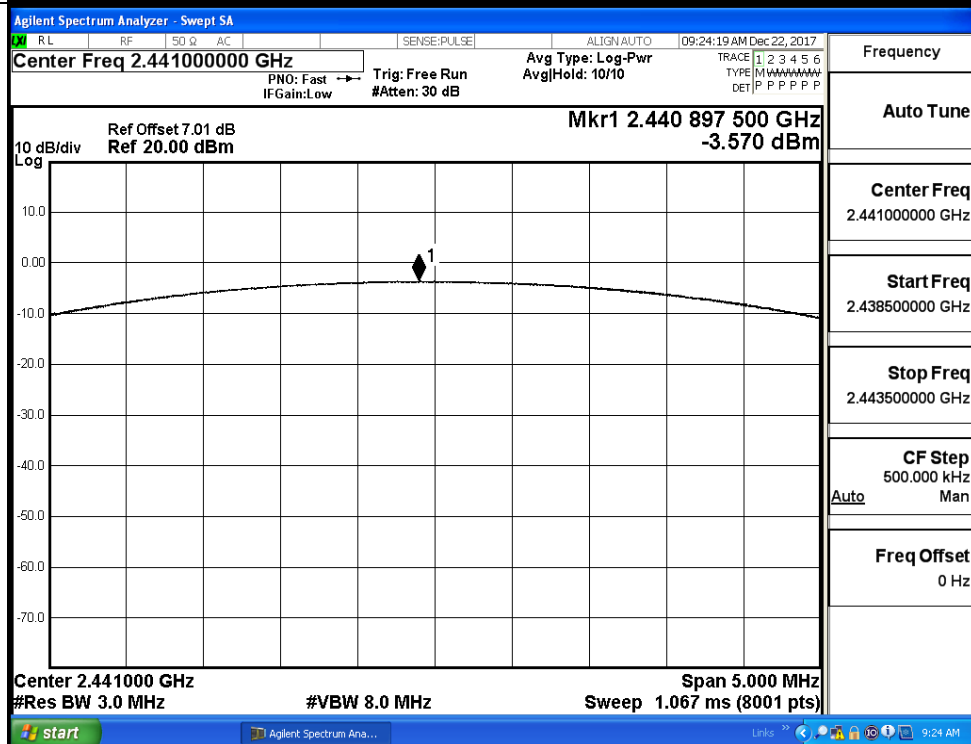
 π /4DQPSK/LCH



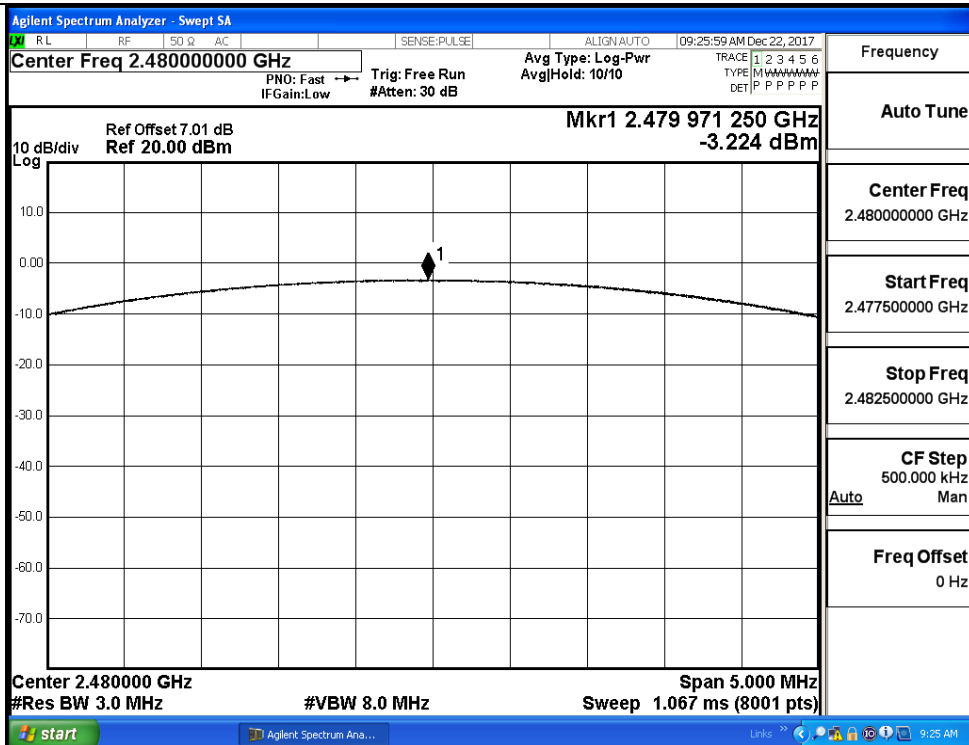
8DPSK/LCH



8DPSK/MCH



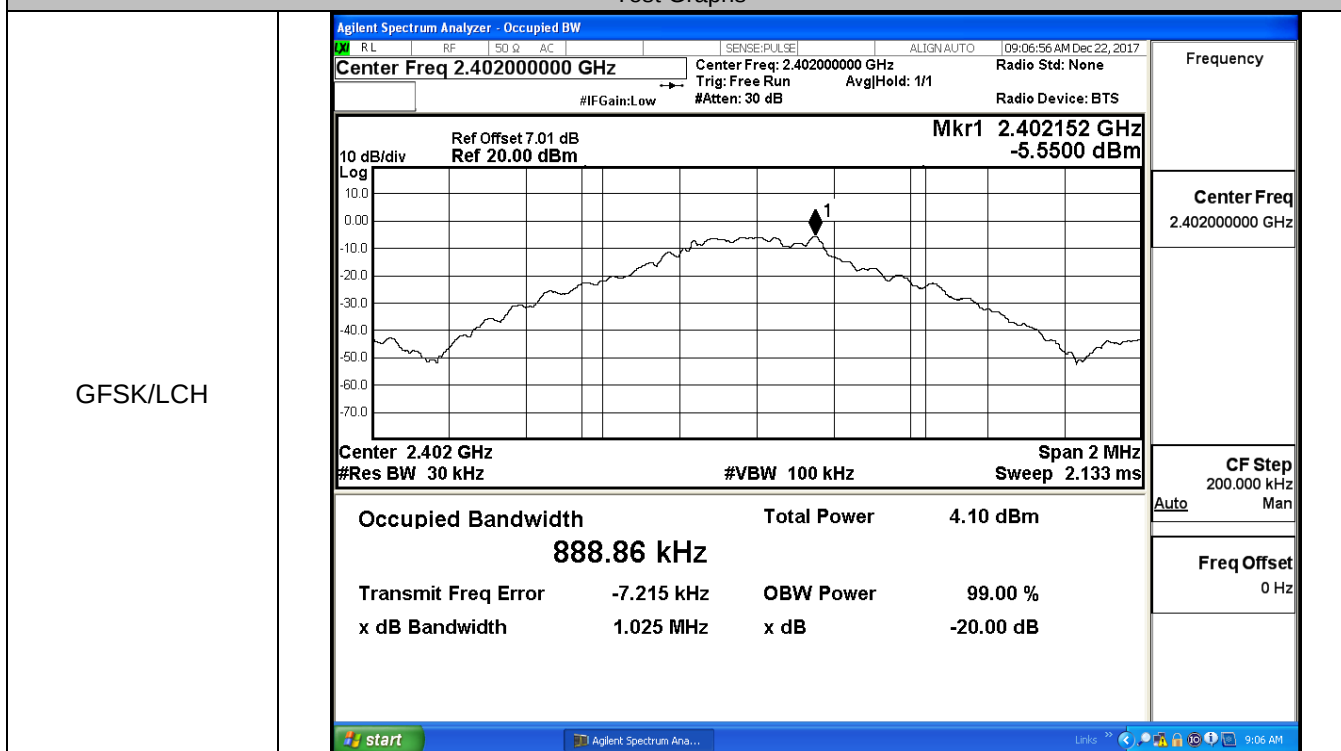
8DPSK/HCH



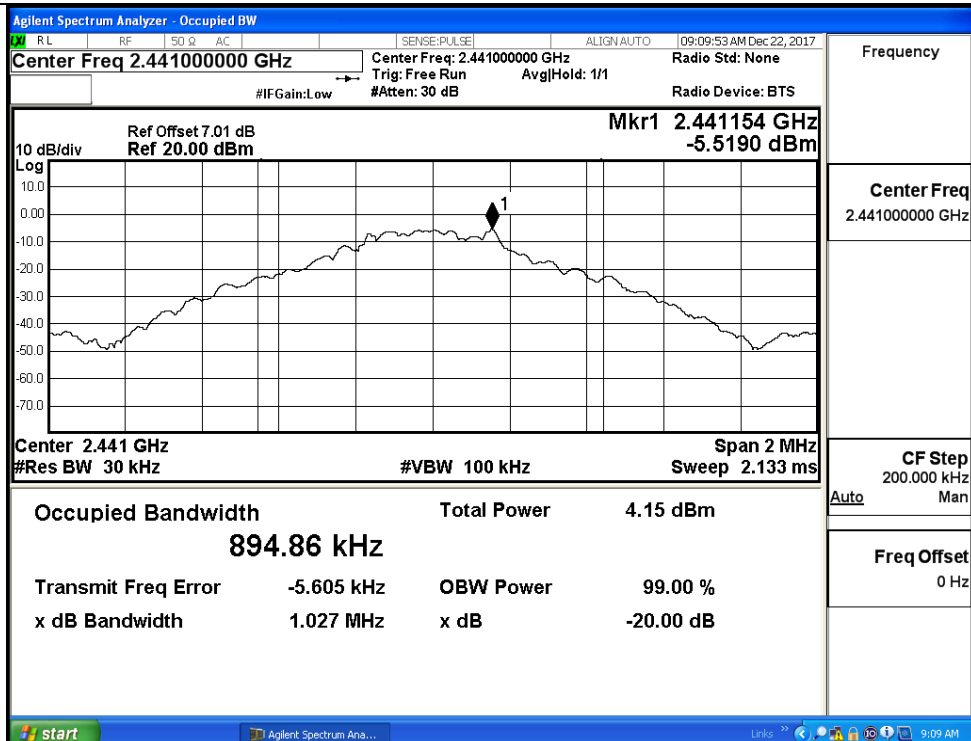
A.2 20dB Bandwidth

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	1.025	Not Specified	PASS
	MCH	1.027	Not Specified	PASS
	HCH	1.032	Not Specified	PASS
$\pi/4$ DQPSK	LCH	1.314	Not Specified	PASS
	MCH	1.316	Not Specified	PASS
	HCH	1.310	Not Specified	PASS
8DPSK	LCH	1.299	Not Specified	PASS
	MCH	1.301	Not Specified	PASS
	HCH	1.299	Not Specified	PASS

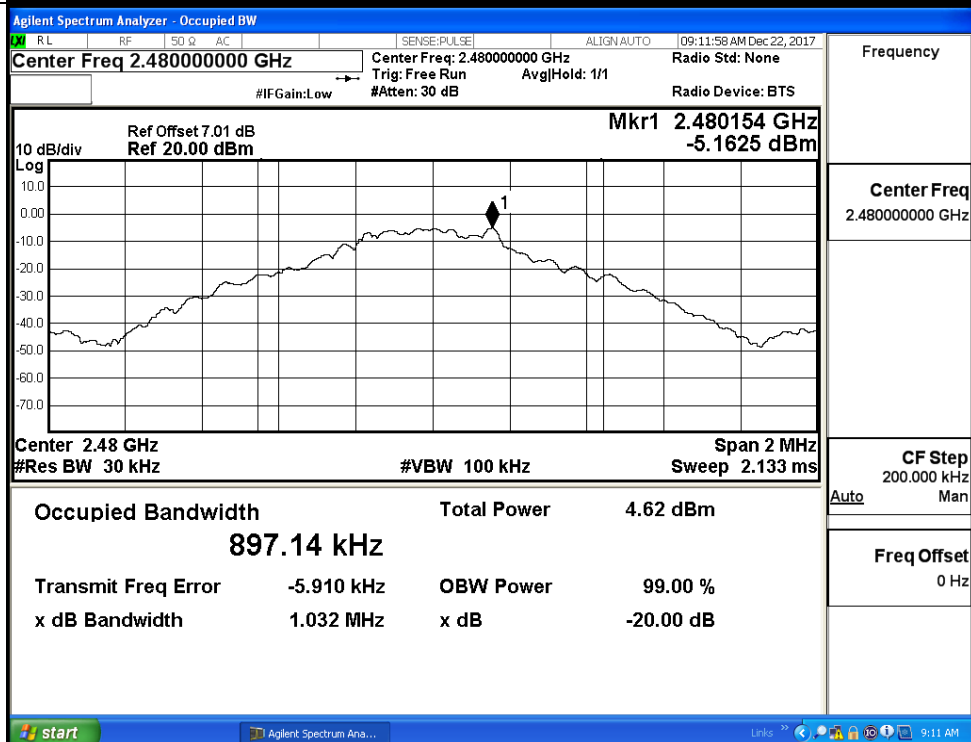
Test Graphs

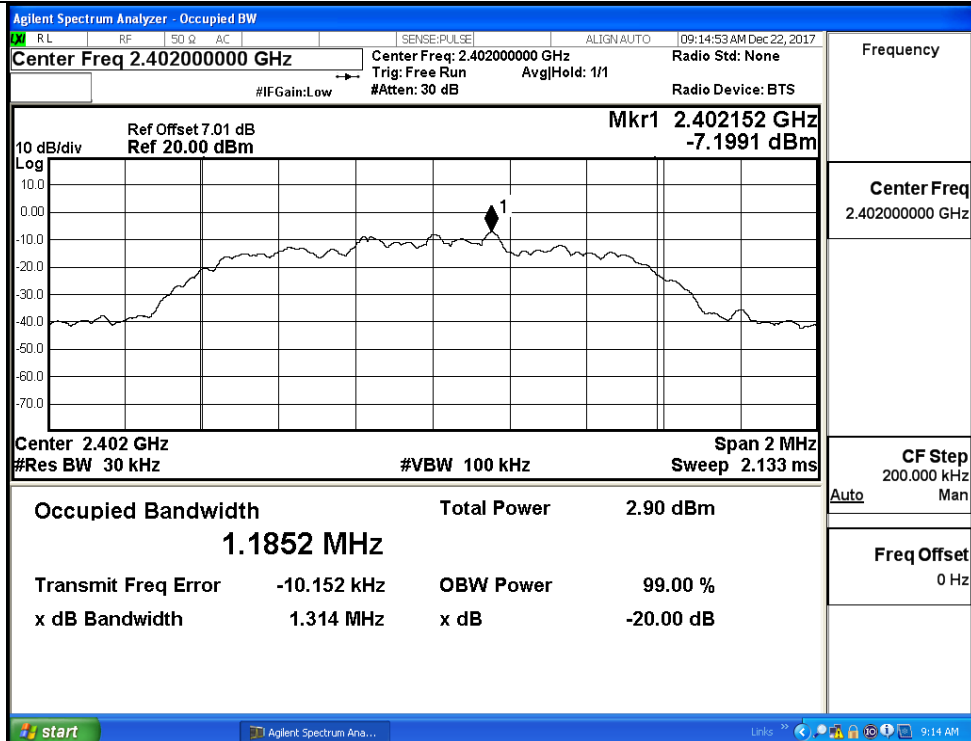
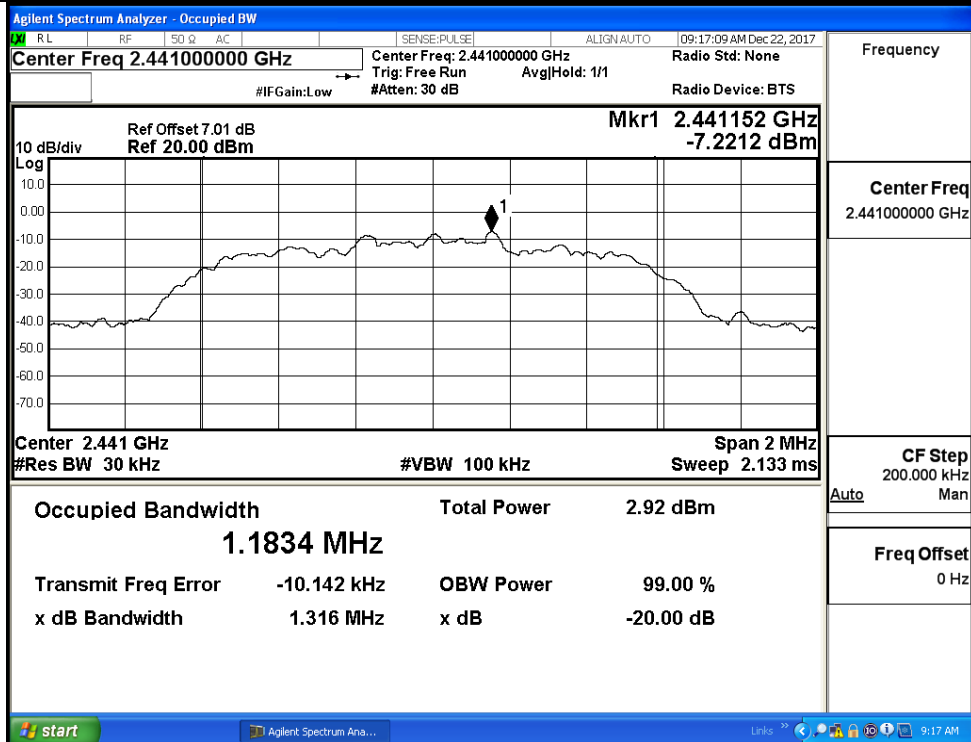


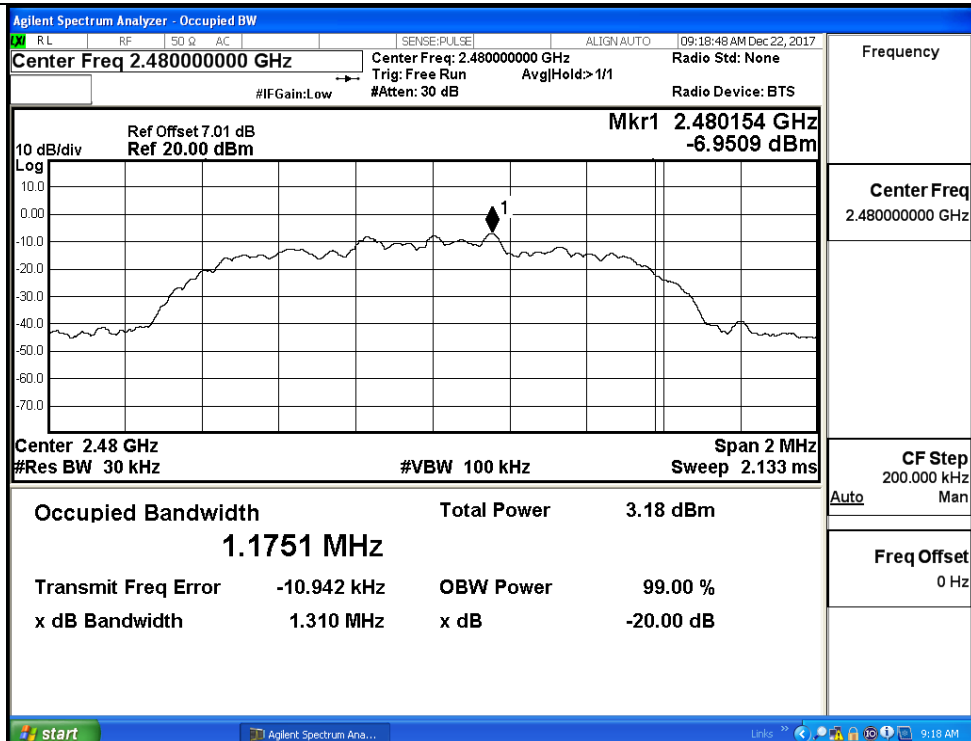
GFSK/MCH



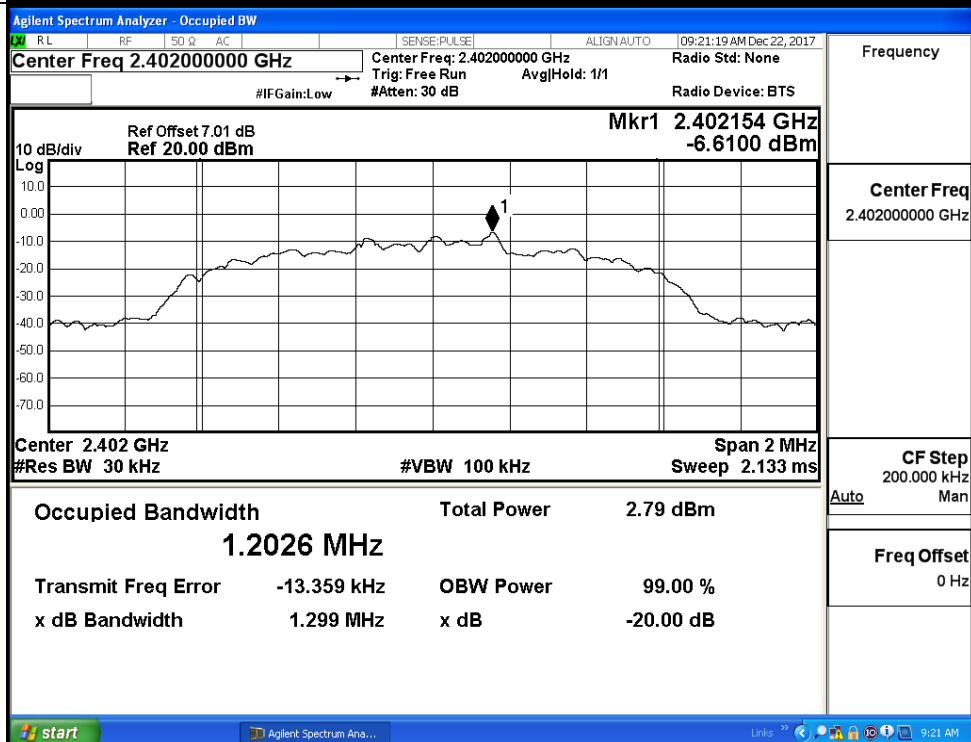
GFSK/HCH



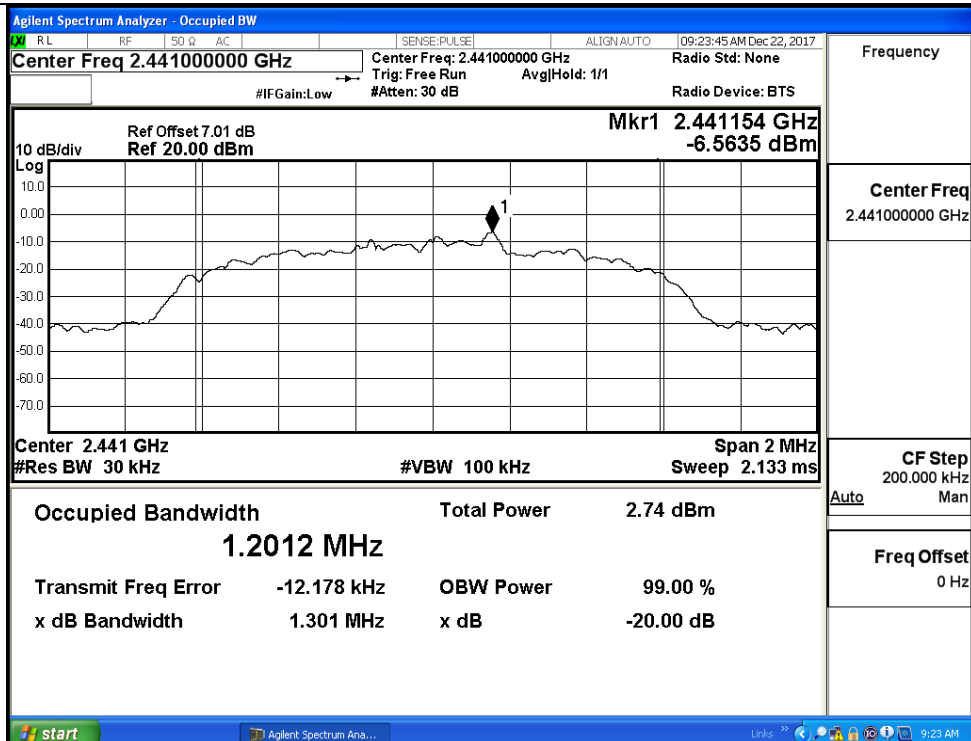
$\pi/4$ DQPSK/LCH $\pi/4$ DQPSK/MCH

$\pi/4$ DQPSK/HCH

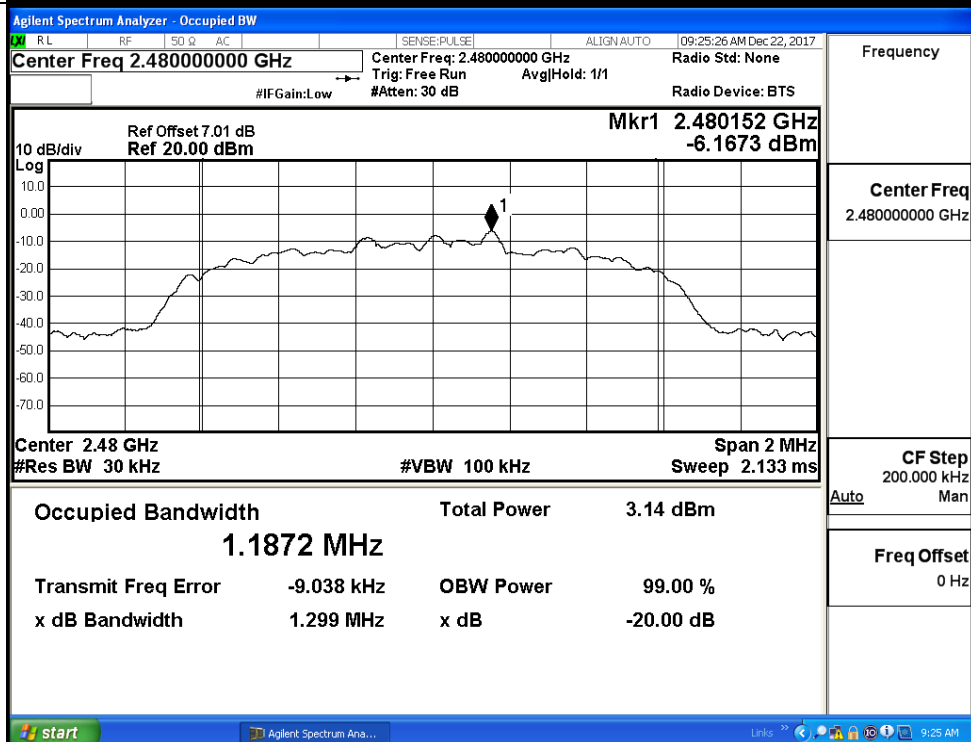
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

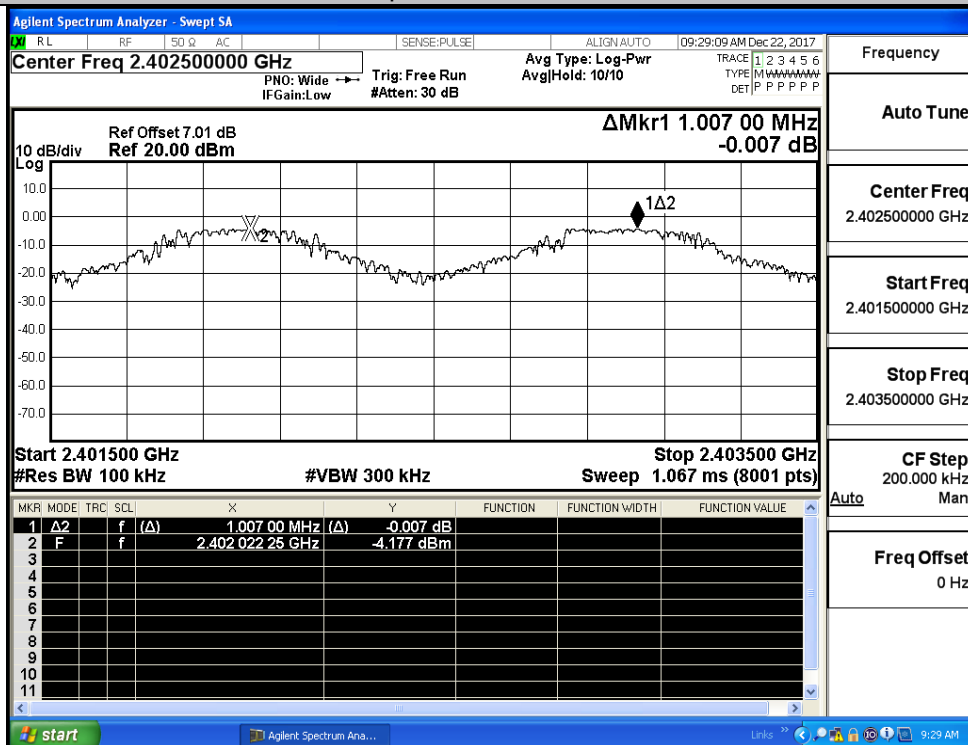


A.3 Carrier Frequency Separation

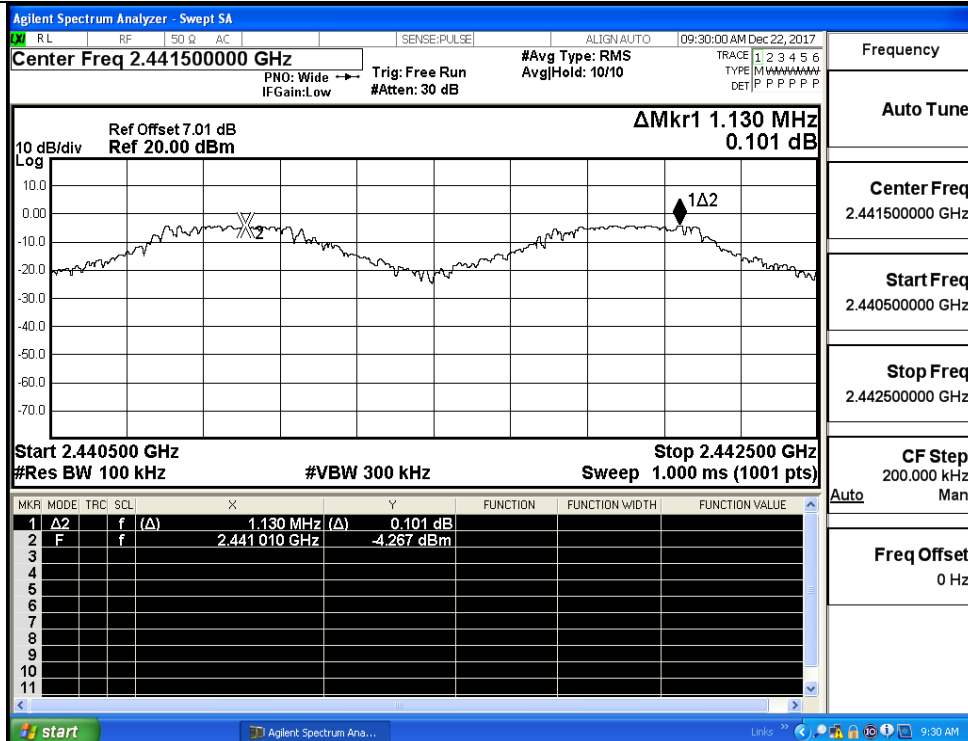
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	1.007	0.683	PASS
	MCH	1.130	0.685	PASS
	HCH	1.166	0.688	PASS
$\pi/4$ DQPSK	LCH	0.884	0.876	PASS
	MCH	1.312	0.877	PASS
	HCH	1.266	0.873	PASS
8DPSK	LCH	1.048	0.866	PASS
	MCH	1.016	0.867	PASS
	HCH	1.066	0.866	PASS

Test Graphs

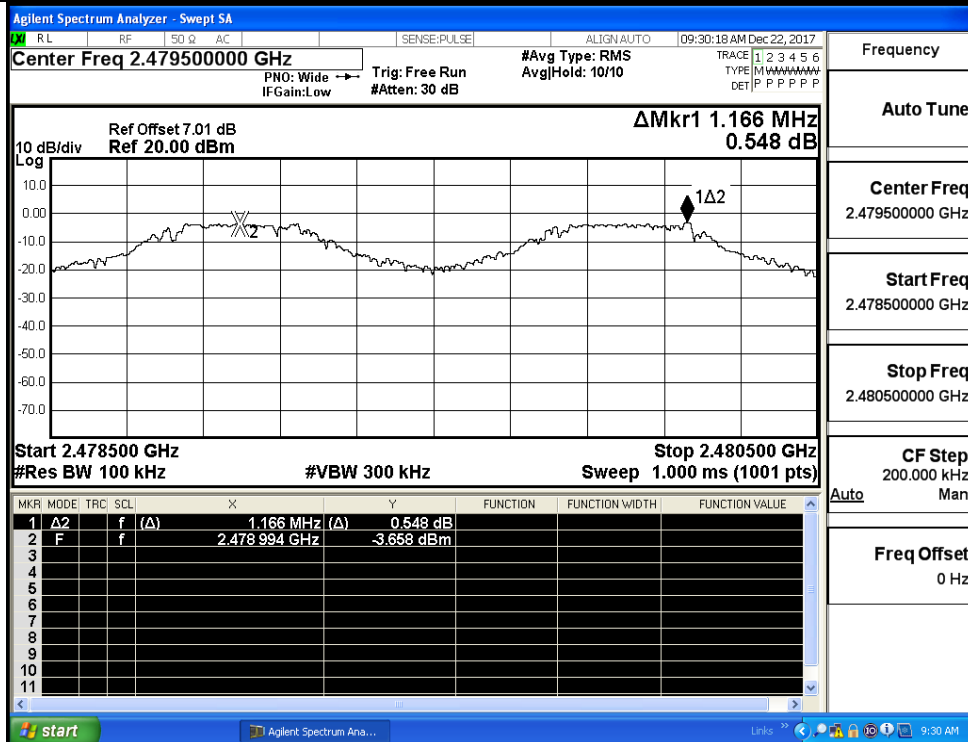
GFSK/LCH

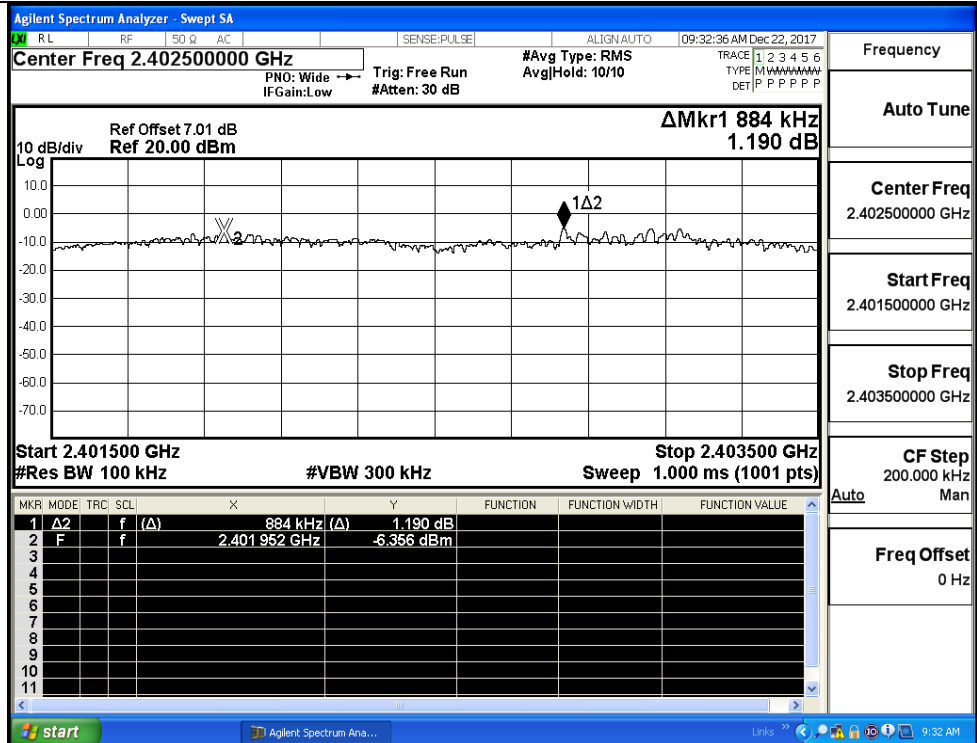
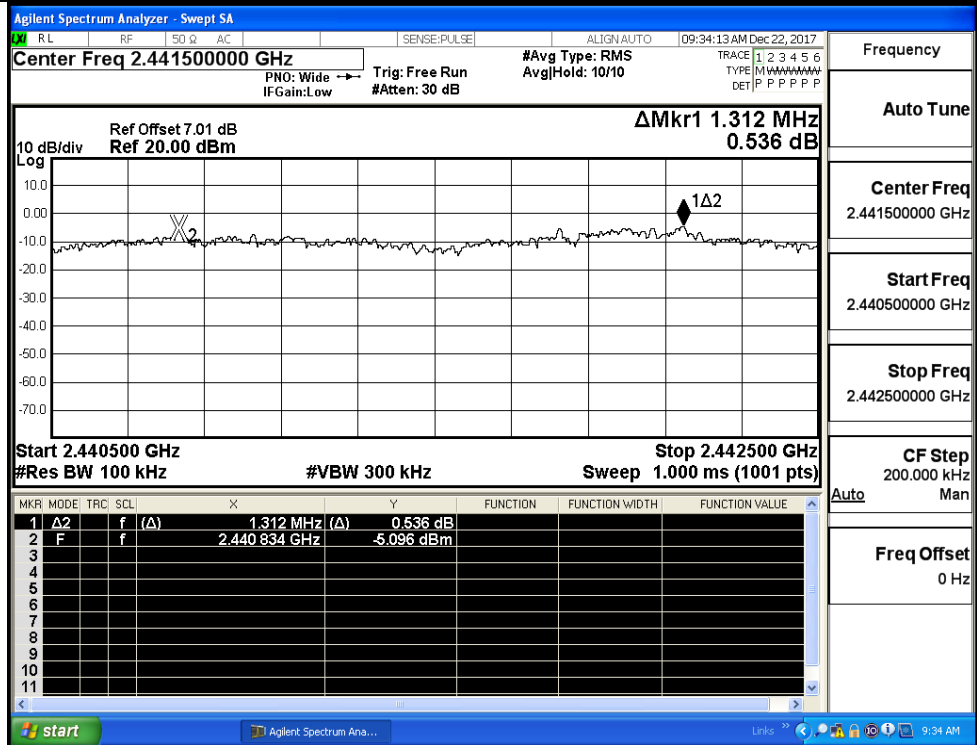


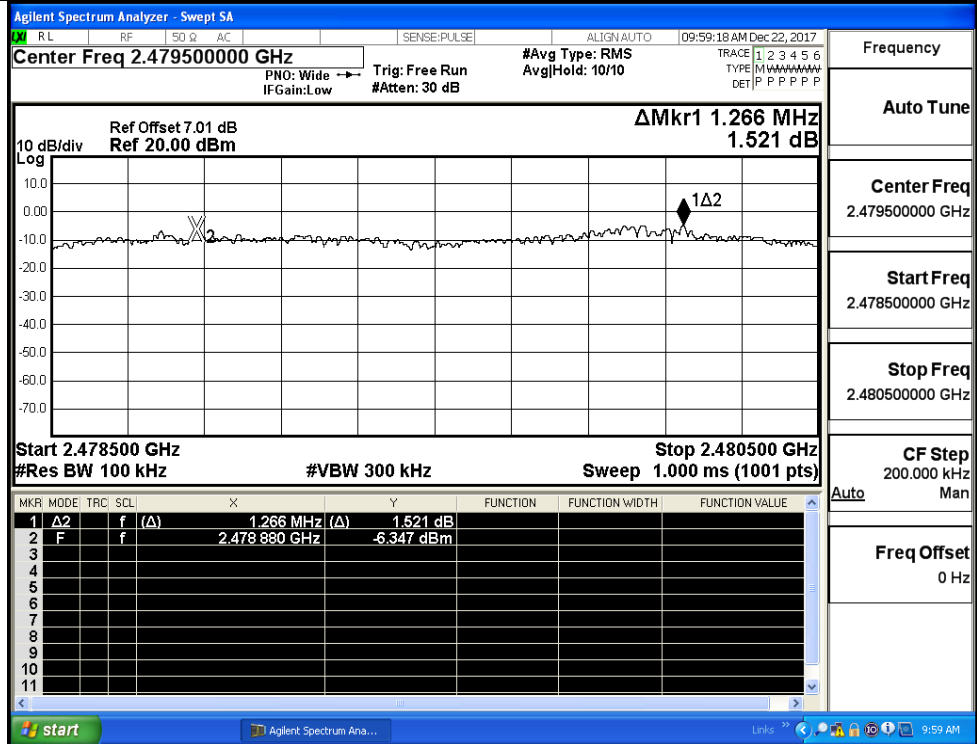
GFSK/MCH



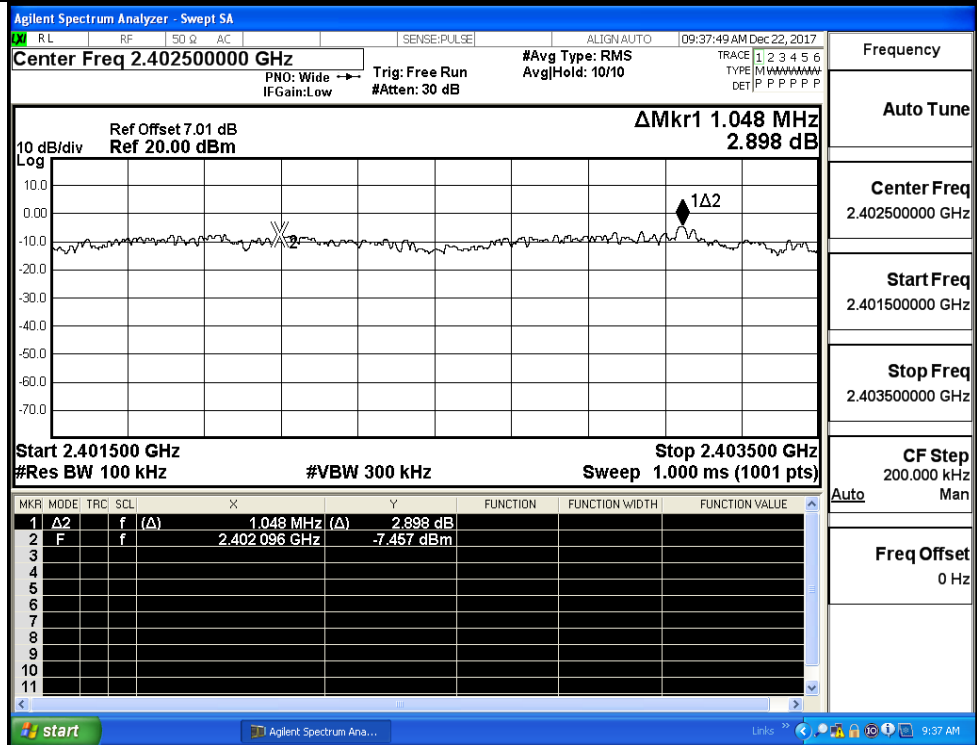
GFSK/HCH



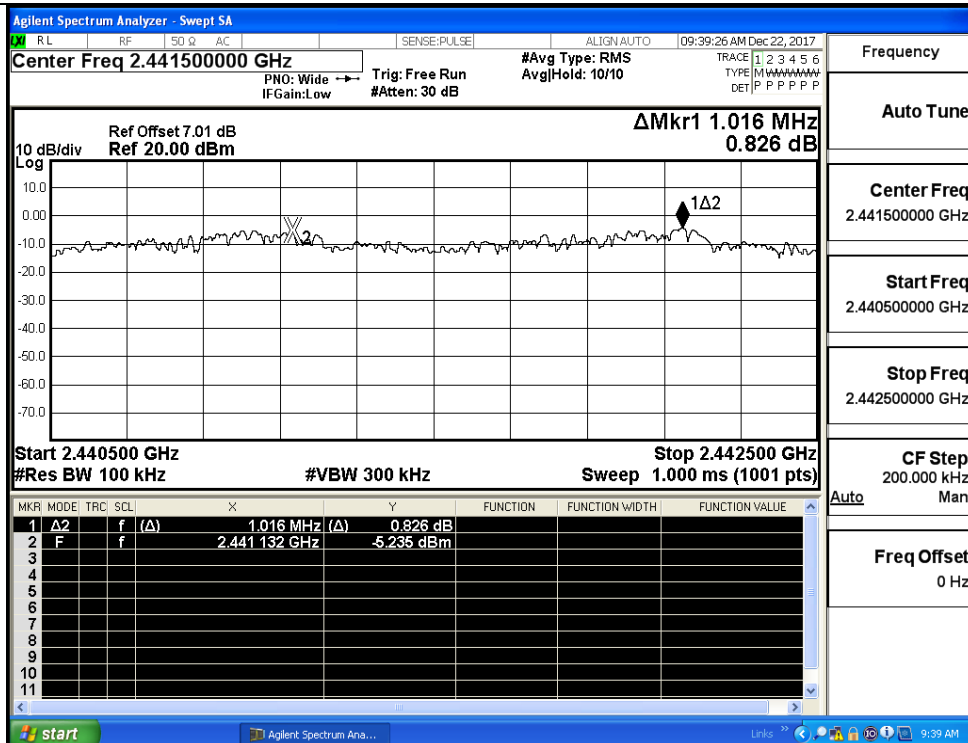
$\pi/4$ DQPSK/LCH $\pi/4$ DQPSK/MCH

$\pi/4$ DQPSK/HCH

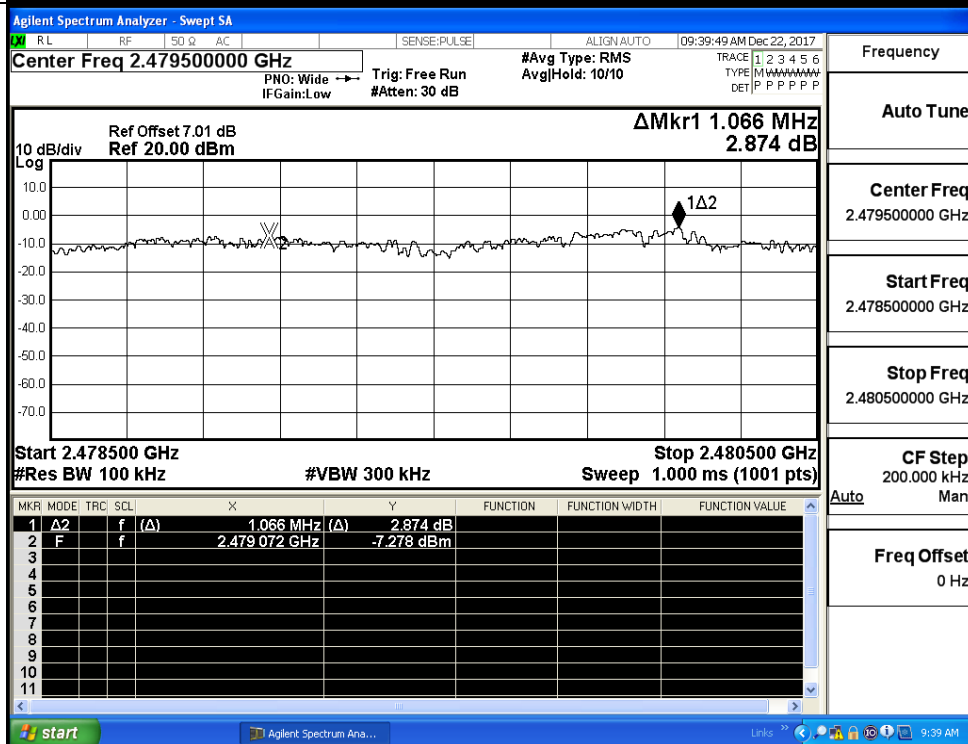
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

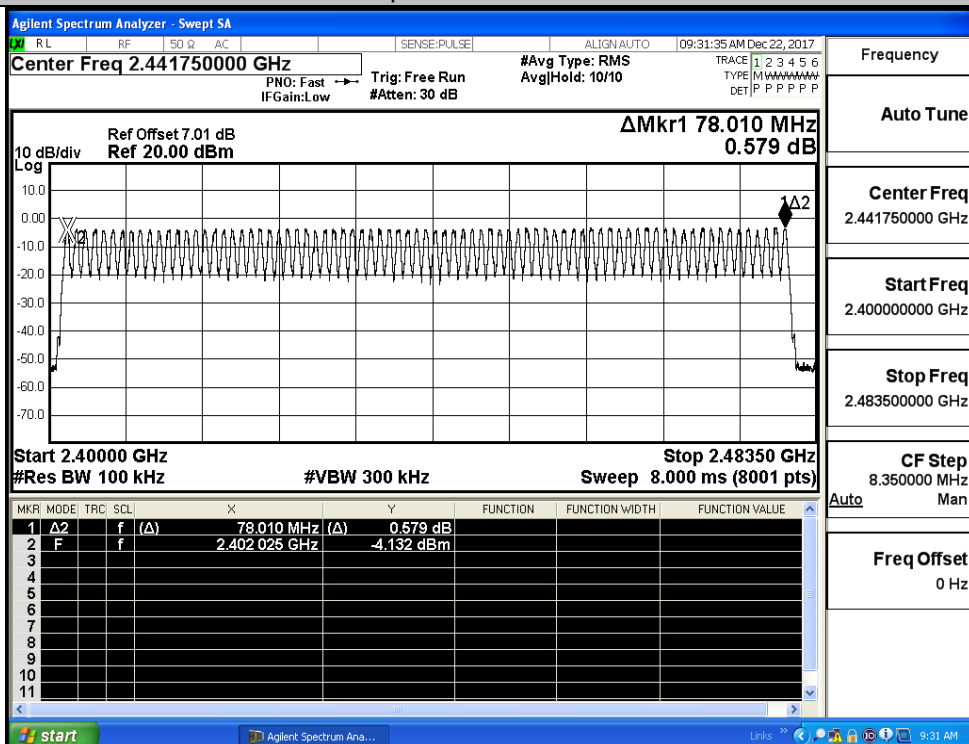
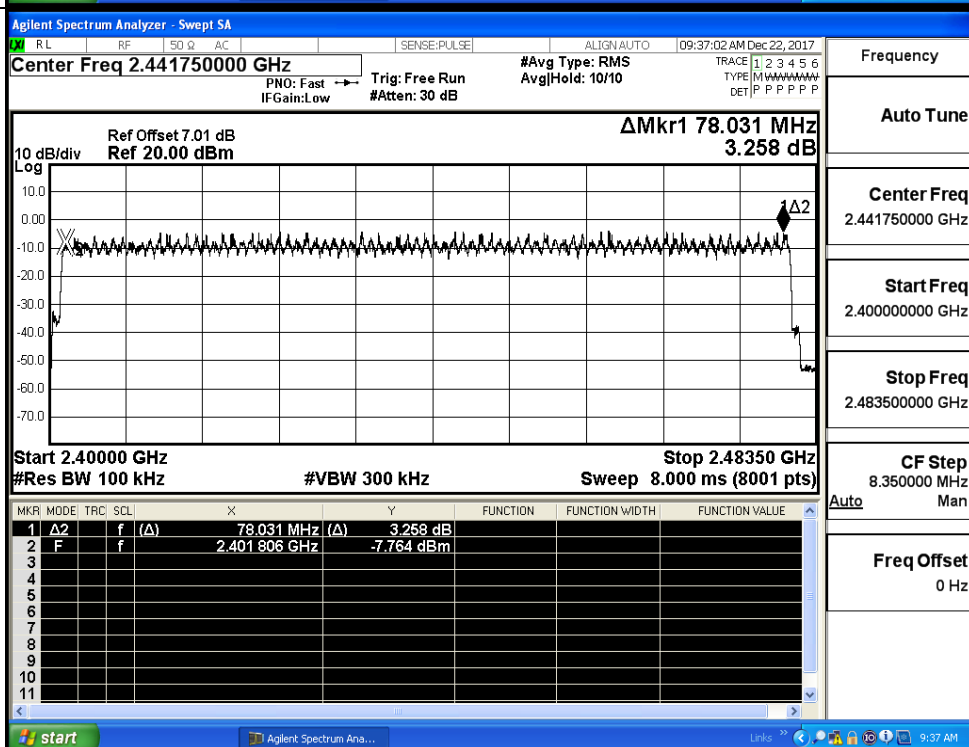


A.4 Hopping Channel Number

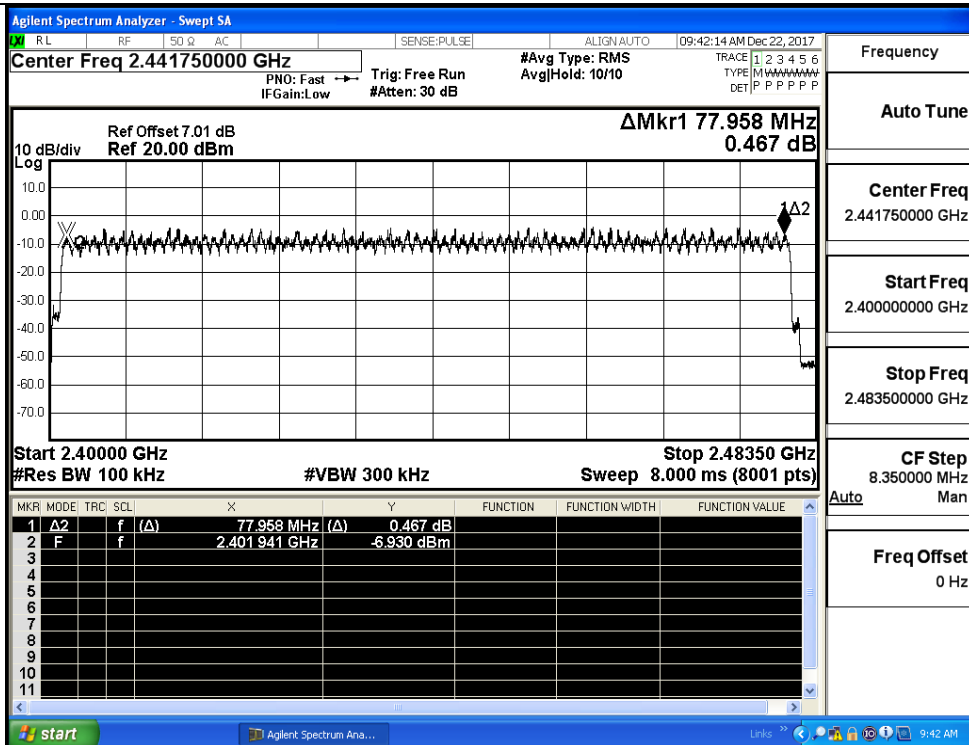
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	≥ 15	PASS
$\pi/4$ DQPSK	Hop	79	≥ 15	PASS
8DPSK	Hop	79	≥ 15	PASS

Test Graphs

GFSK/Hop

 $\pi/4$ DQPSK/Hop

8DPSK/Hop

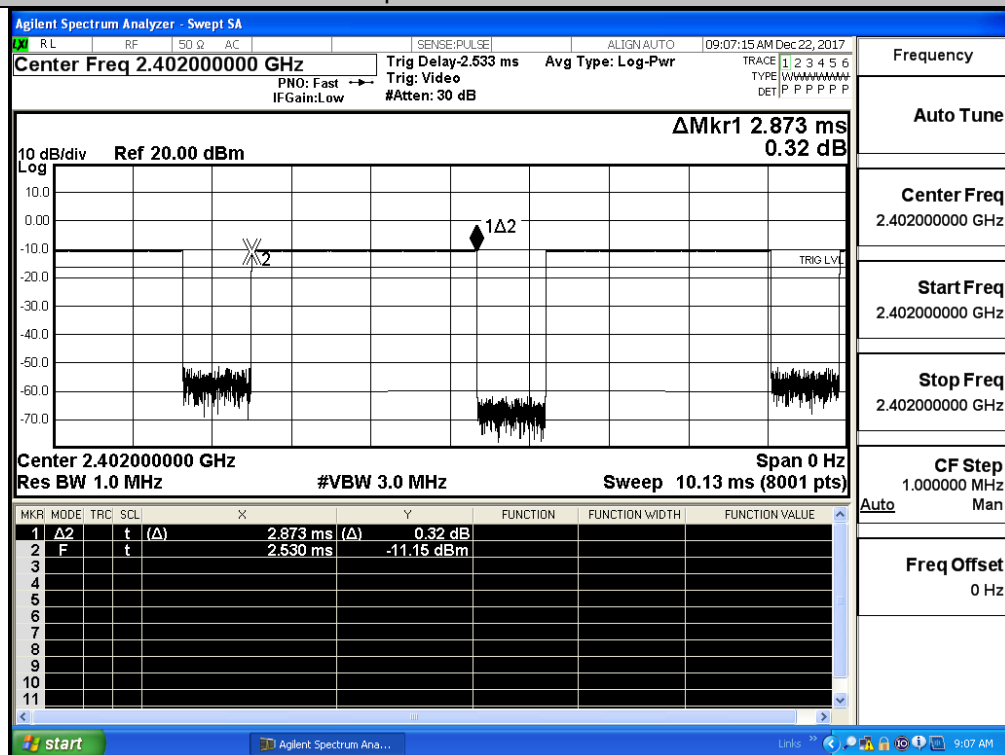


A.5 Dwell Time

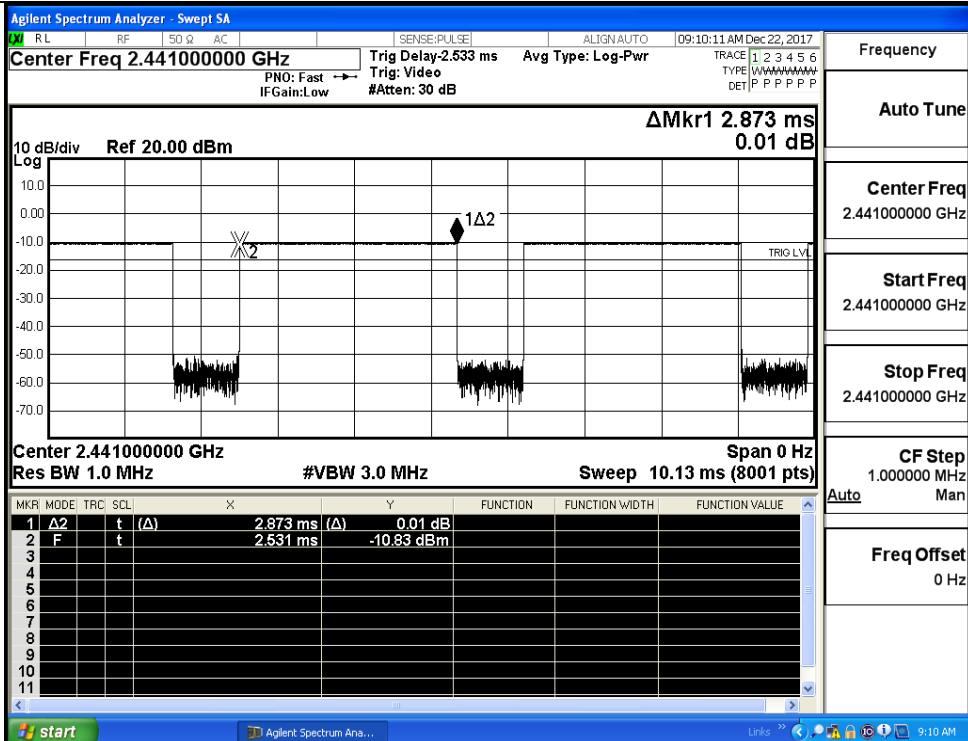
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	2.87	106.7	0.306	0.4	PASS
	DH5	MCH	2.87	106.7	0.306	0.4	PASS
	DH5	HCH	2.87	106.7	0.306	0.4	PASS
$\pi/4$ DQPSK	2DH5	LCH	2.87	106.7	0.307	0.4	PASS
	2DH5	MCH	2.87	106.7	0.307	0.4	PASS
	2DH5	HCH	2.87	106.7	0.307	0.4	PASS
8DPSK	3DH5	LCH	2.87	106.7	0.307	0.4	PASS
	3DH5	MCH	2.87	106.7	0.307	0.4	PASS
	3DH5	HCH	2.87	106.7	0.307	0.4	PASS

Test Graphs

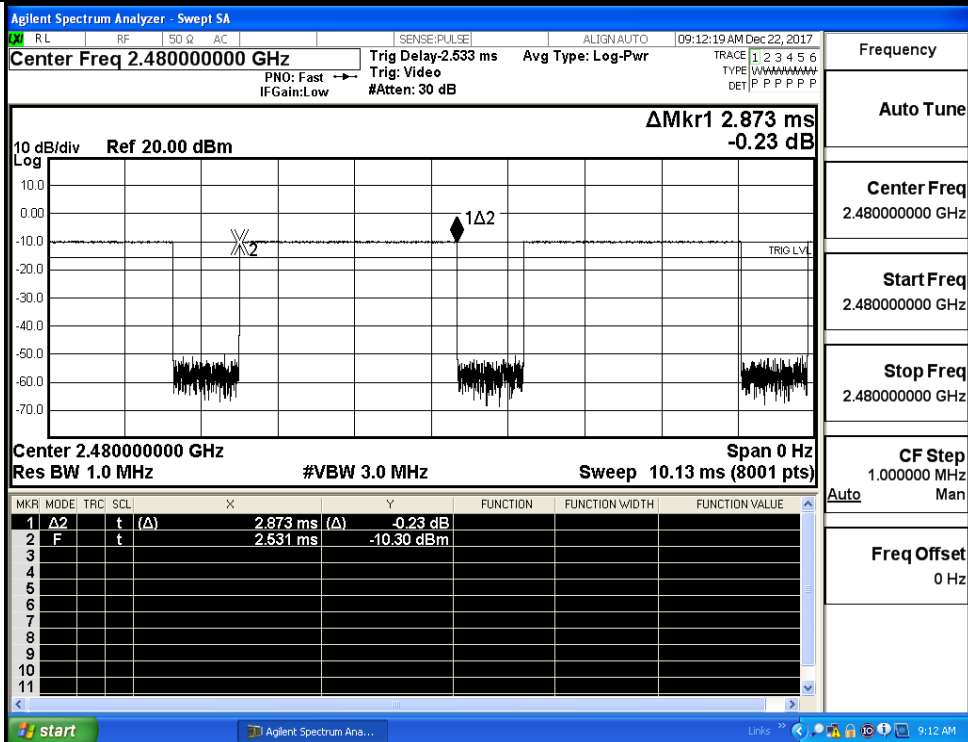
GFSK_DH5/LCH



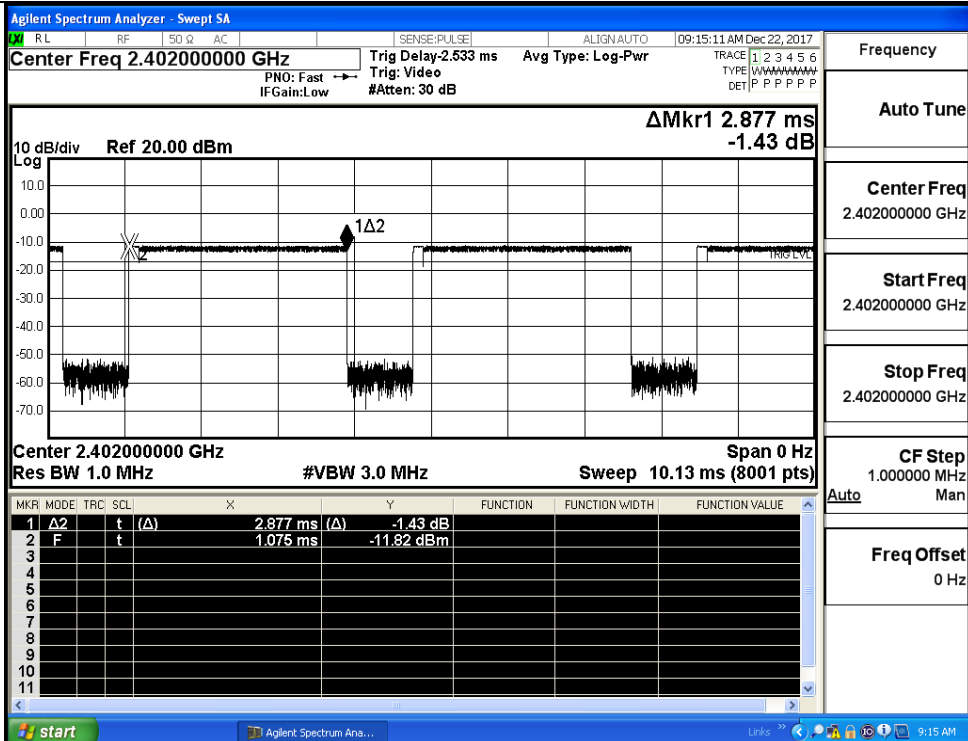
GFSK_DH5/MCH



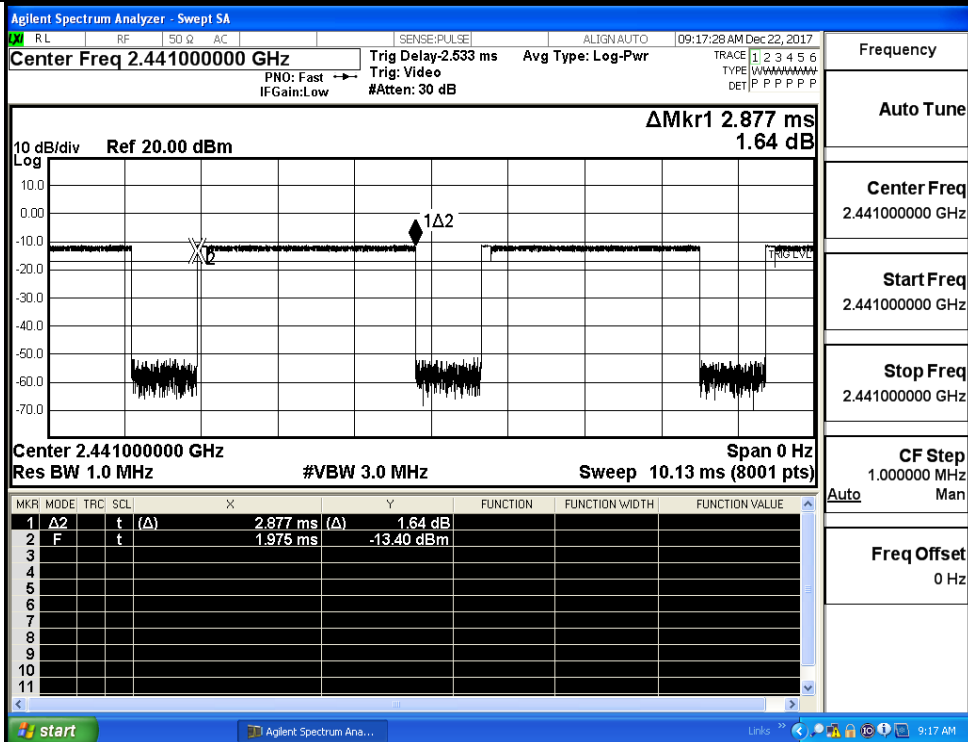
GFSK_DH5/HCH



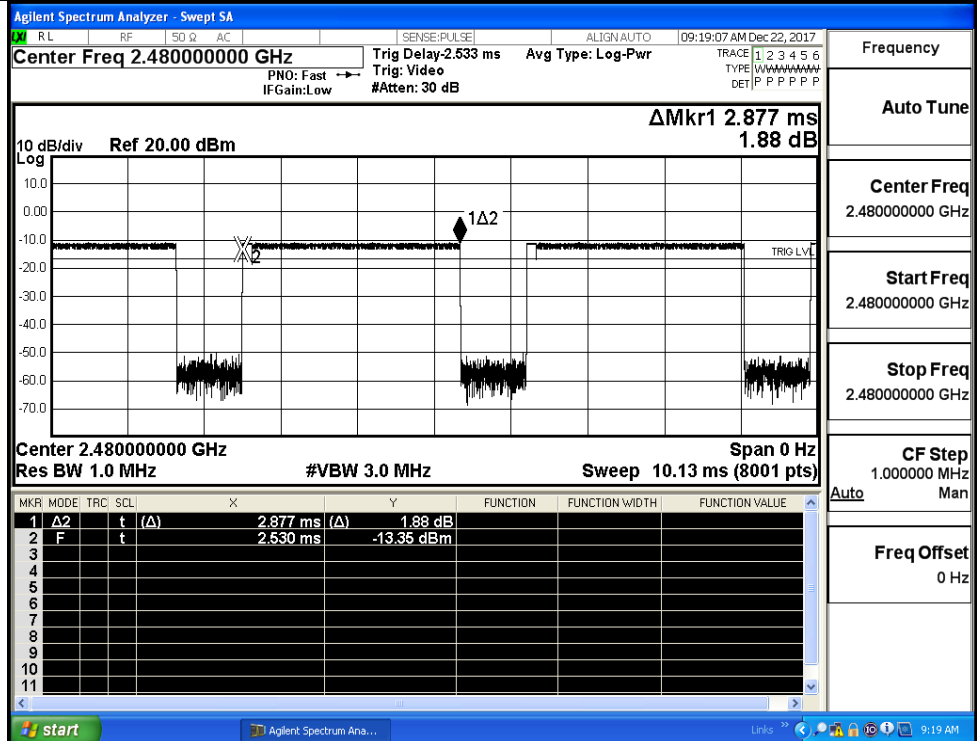
$\pi/4$ DQPSK
_2DH5/LCH



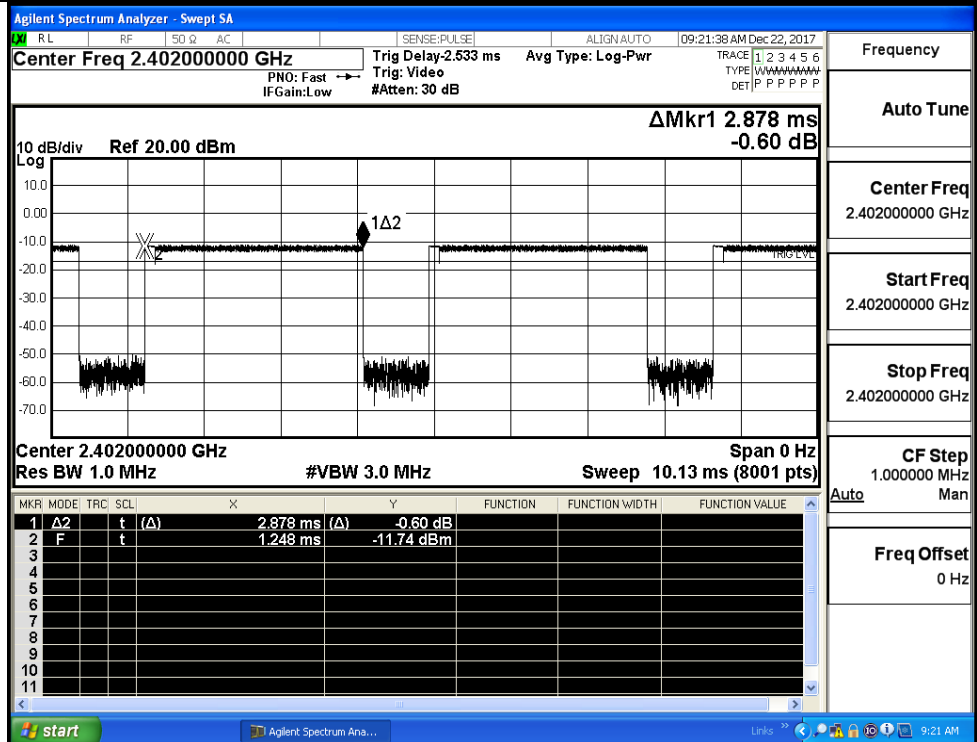
$\pi/4$ DQPSK
_2DH5/MCH



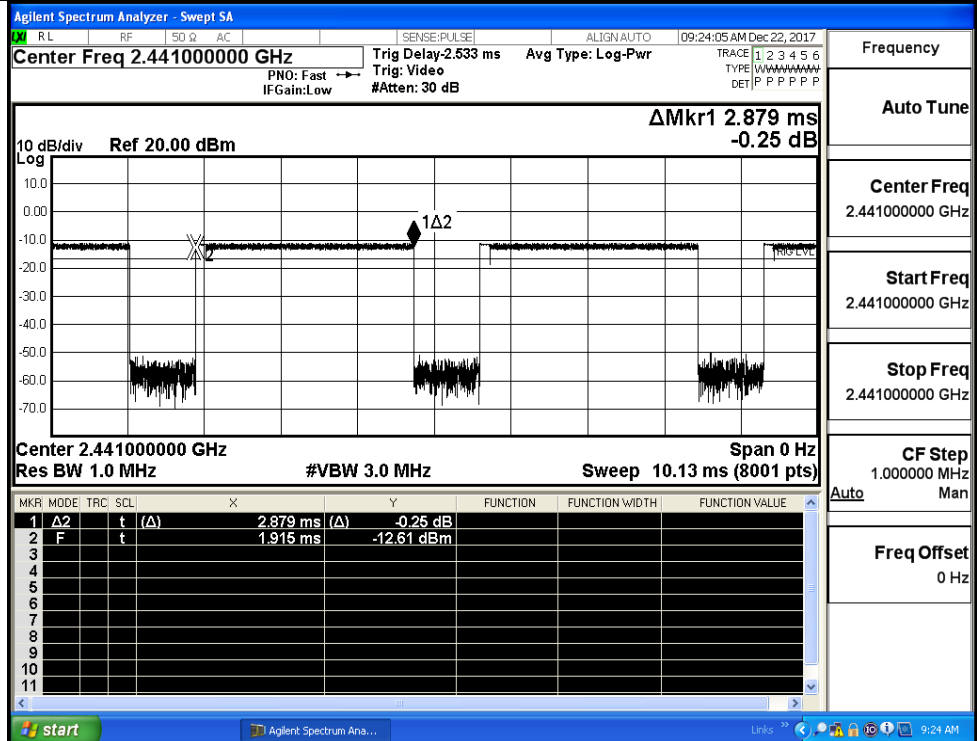
$\pi/4$ DQPSK
_2DH5/HCH



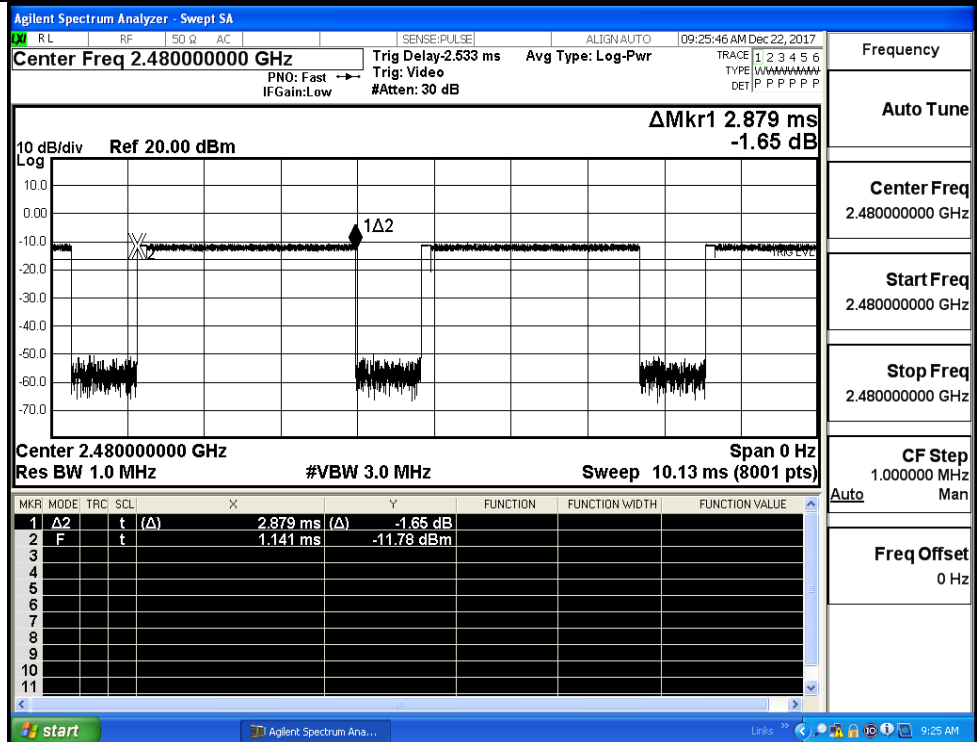
8DPSK _3DH5/LCH



8DPSK_3DH5/MCH



8DPSK_3DH5/HCH

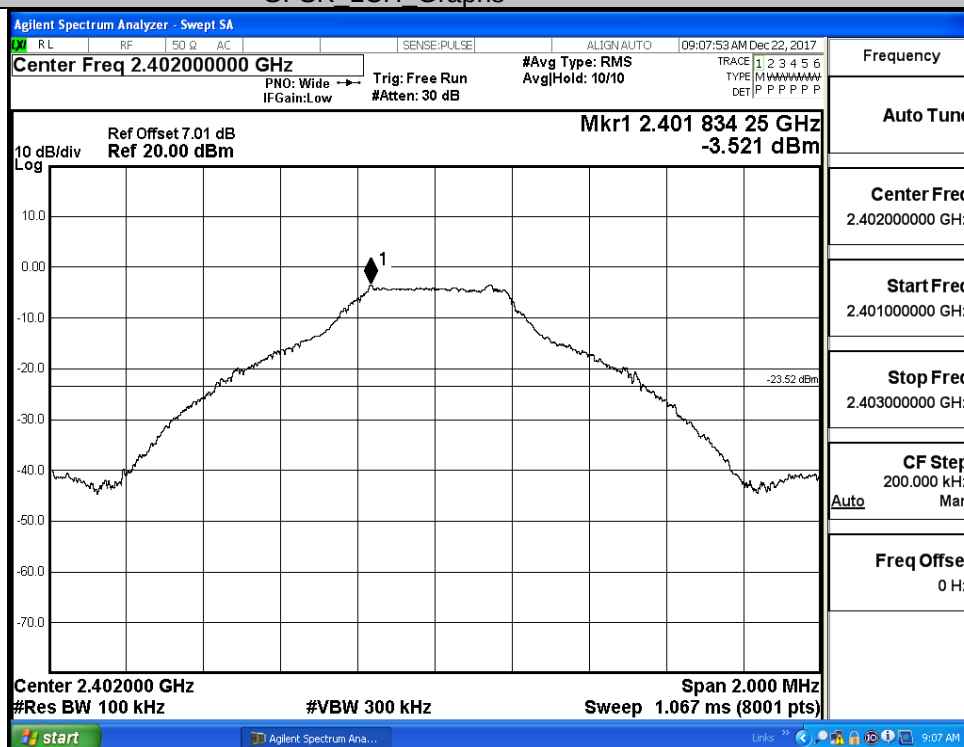


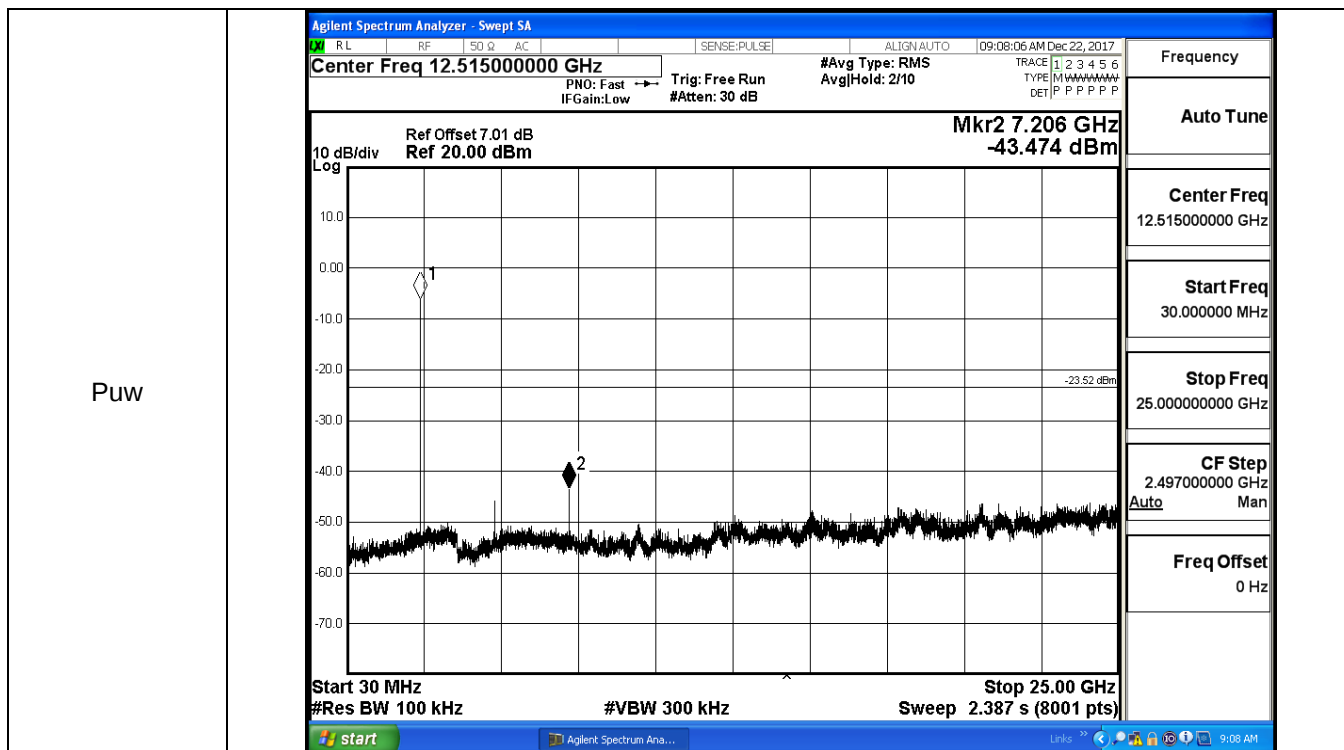
A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-3.521	-43.474	-23.521	PASS
	MCH	-3.474	-44.879	-23.474	PASS
	HCH	-2.977	-46.392	-22.977	PASS
$\pi/4$ DQPSK	LCH	-4.416	-45.141	-24.416	PASS
	MCH	-4.571	-45.668	-24.571	PASS
	HCH	-4.284	-44.659	-24.284	PASS
8DPSK	LCH	-4.523	-46.062	-24.523	PASS
	MCH	-4.396	-45.366	-24.396	PASS
	HCH	-4.206	-45.509	-24.206	PASS

GFSK LCH Graphs

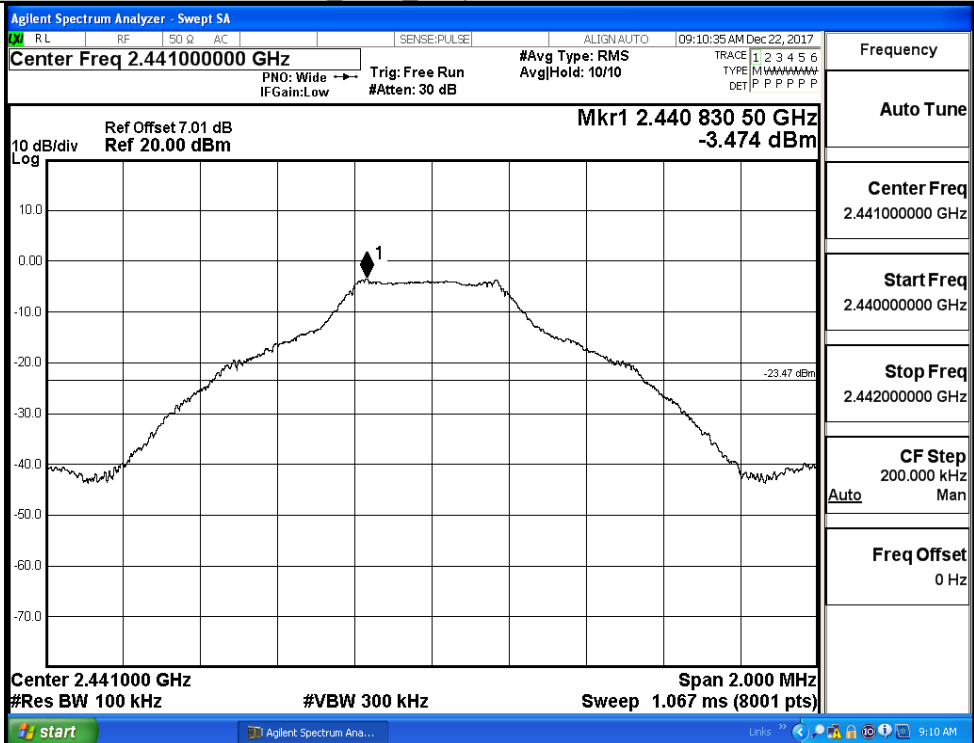
Pref



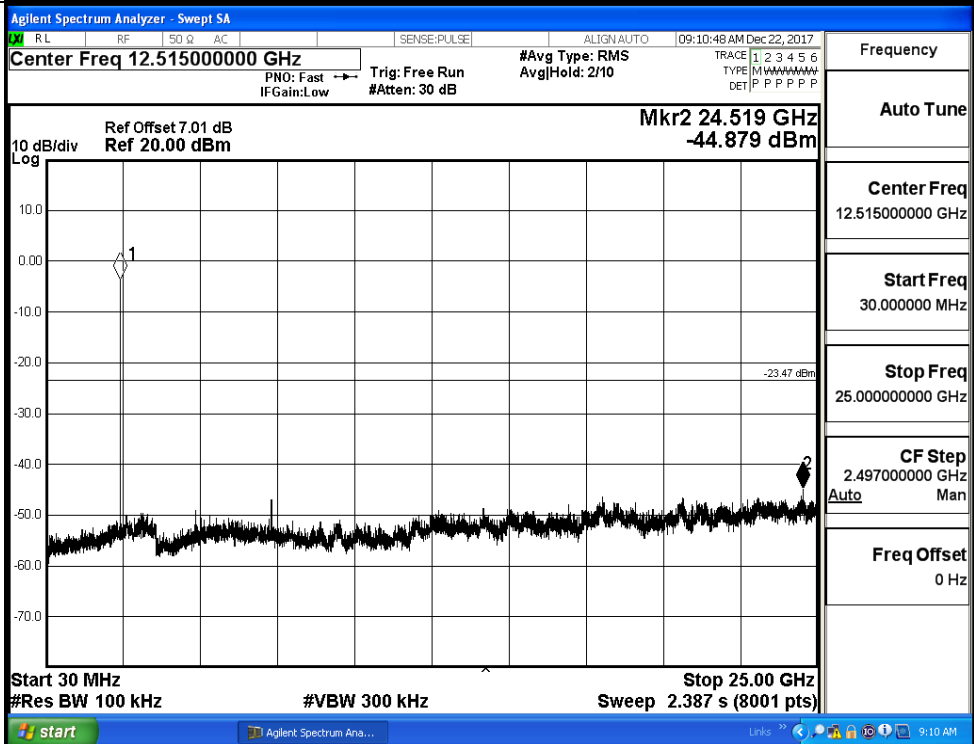


GFSK_MCH_Graphs

Pref

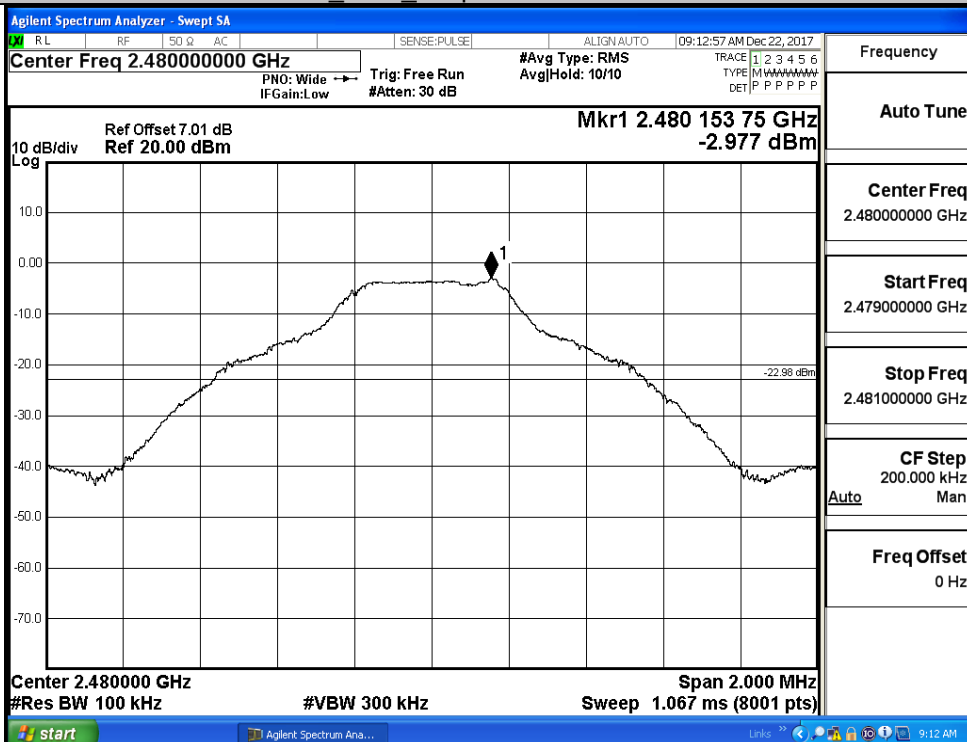


Puw

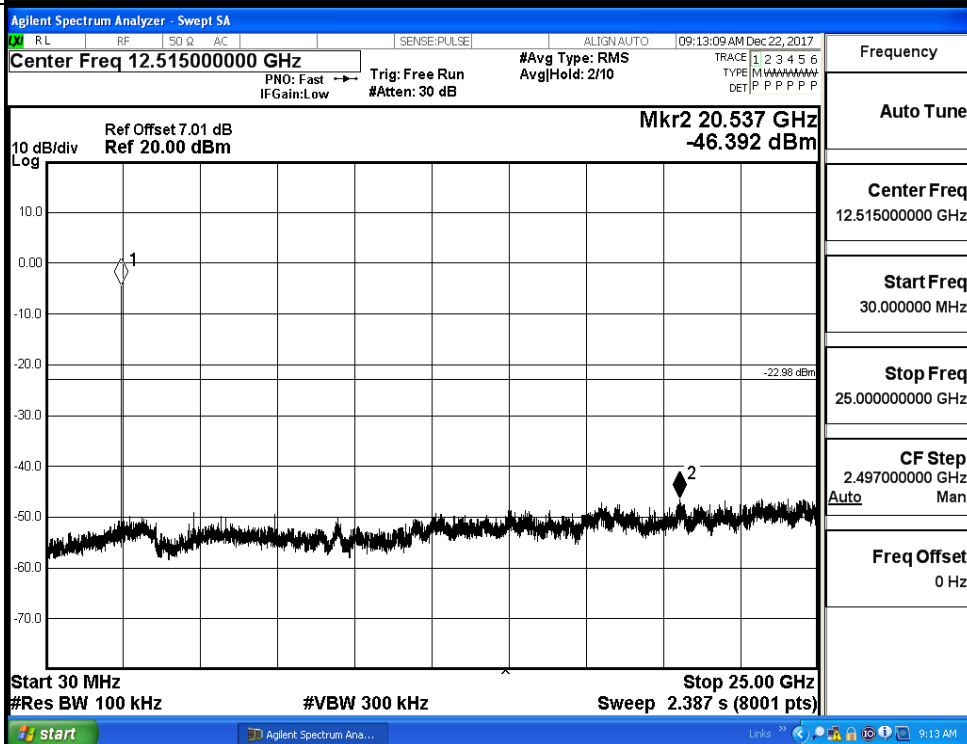


GFSK_HCH_Graphs

Pref

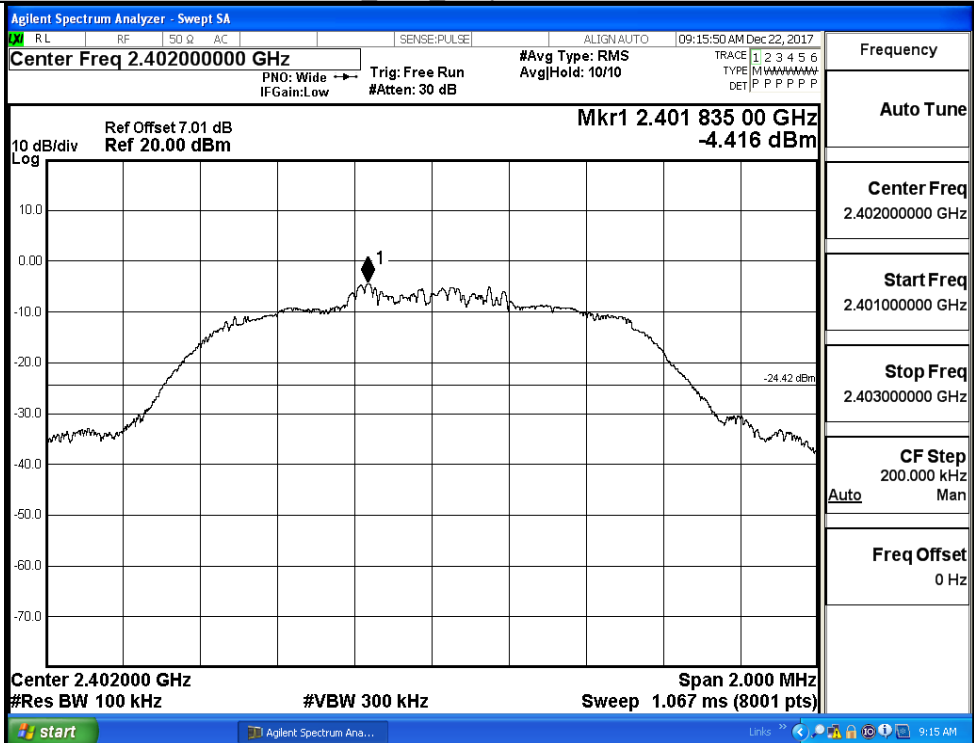


Puw

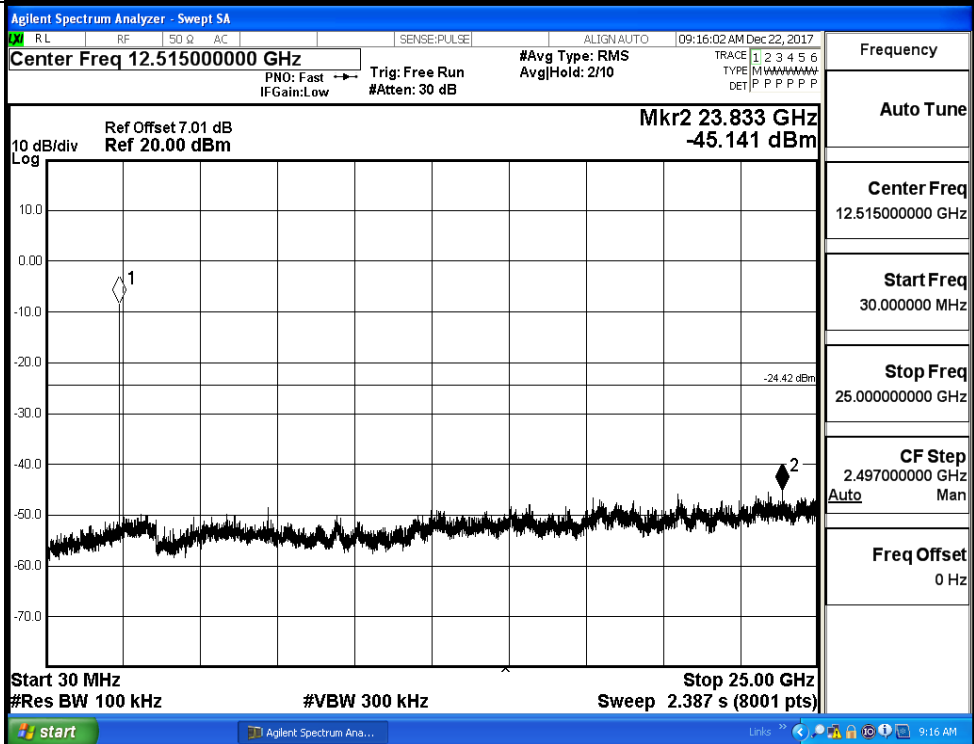


$\pi/4$ DQPSK_LCH_Graphs

Pref

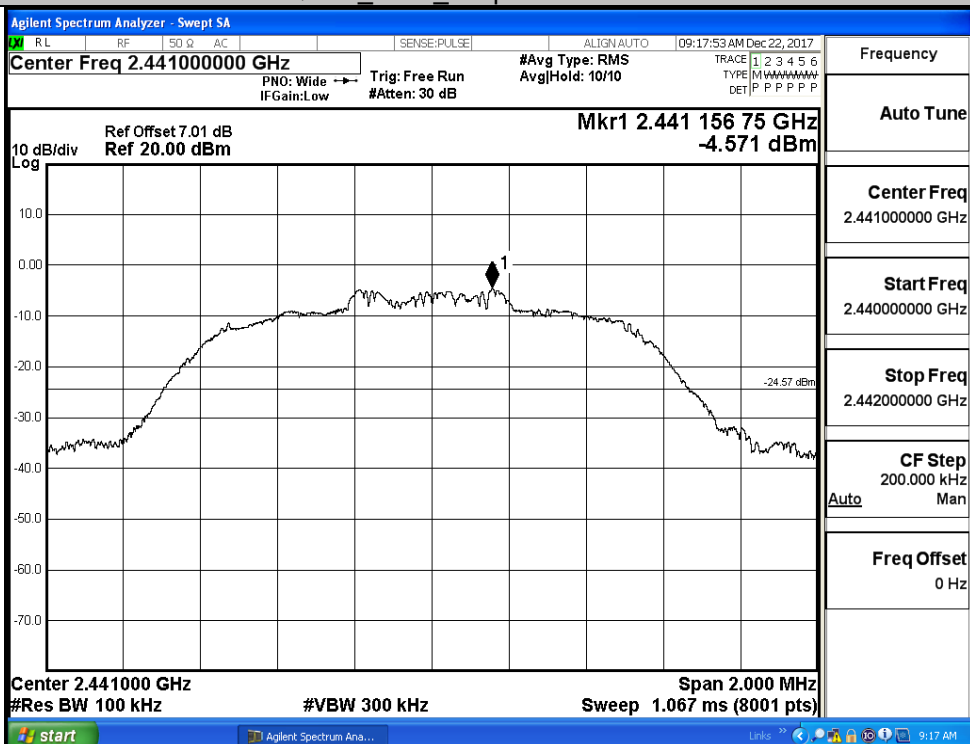


Puw

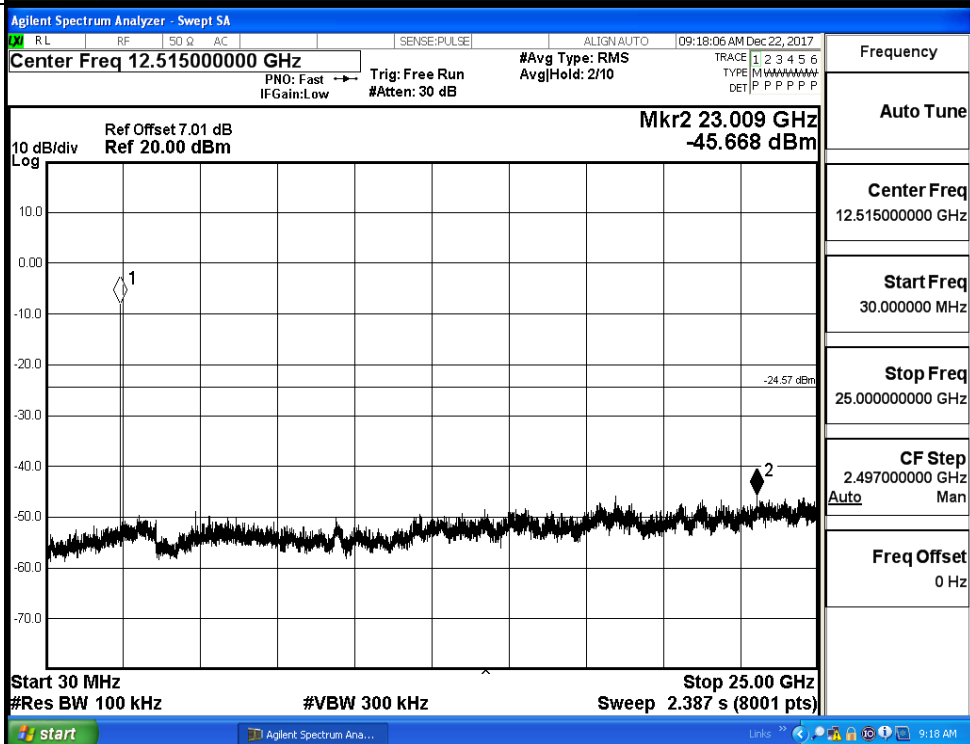


$\pi/4$ DQPSK_MCH_Graphs

Pref

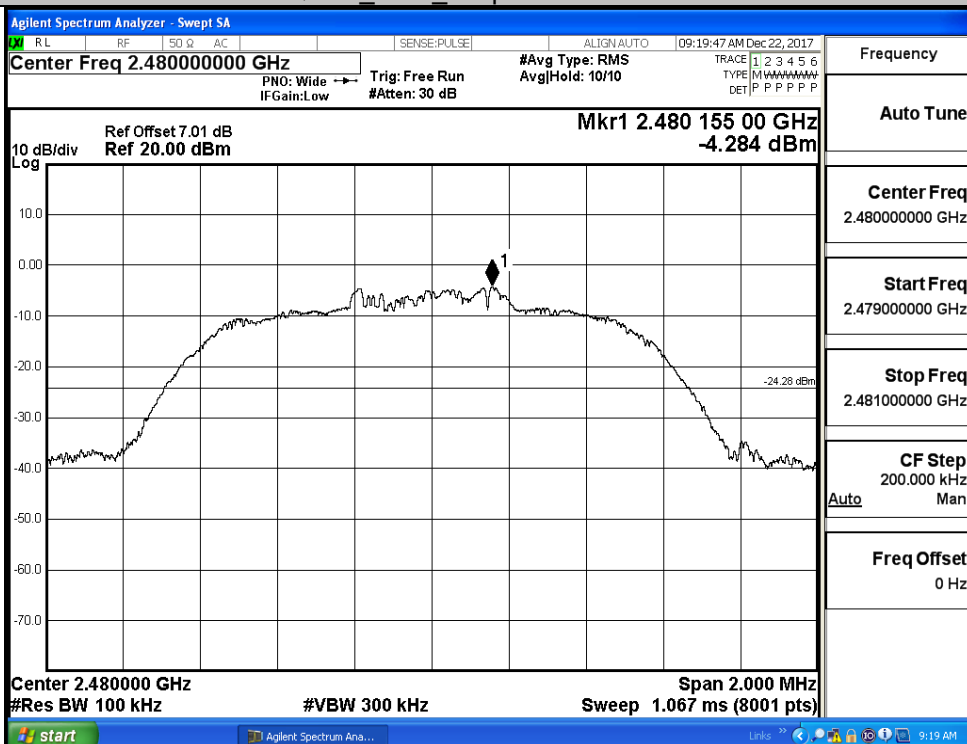


Puw

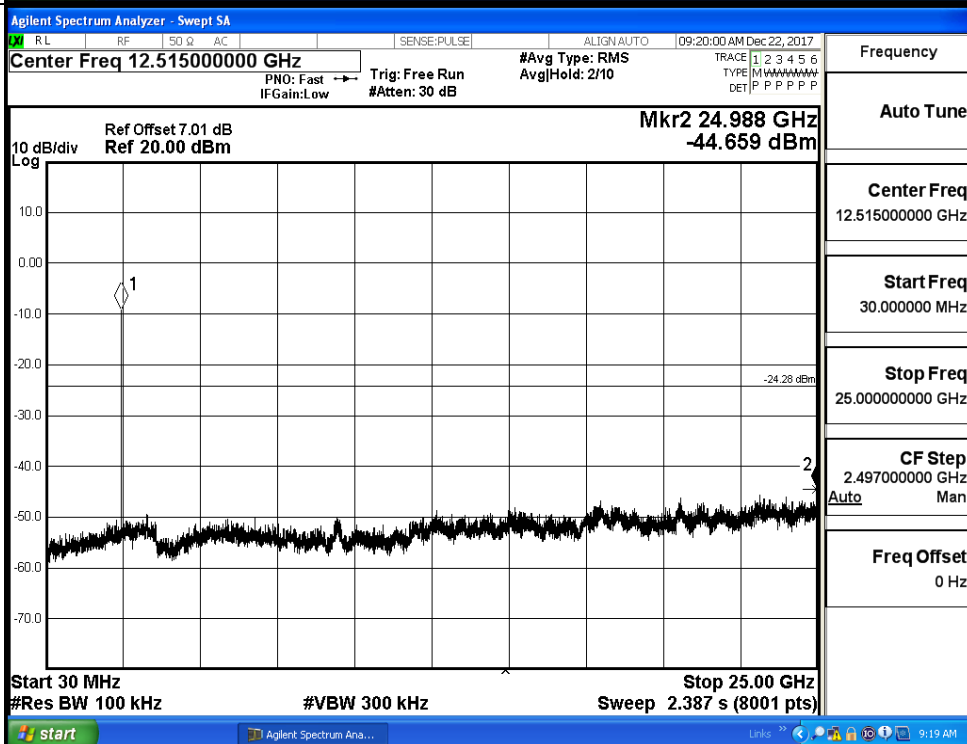


$\pi/4$ DQPSK_HCH_Graphs

Pref

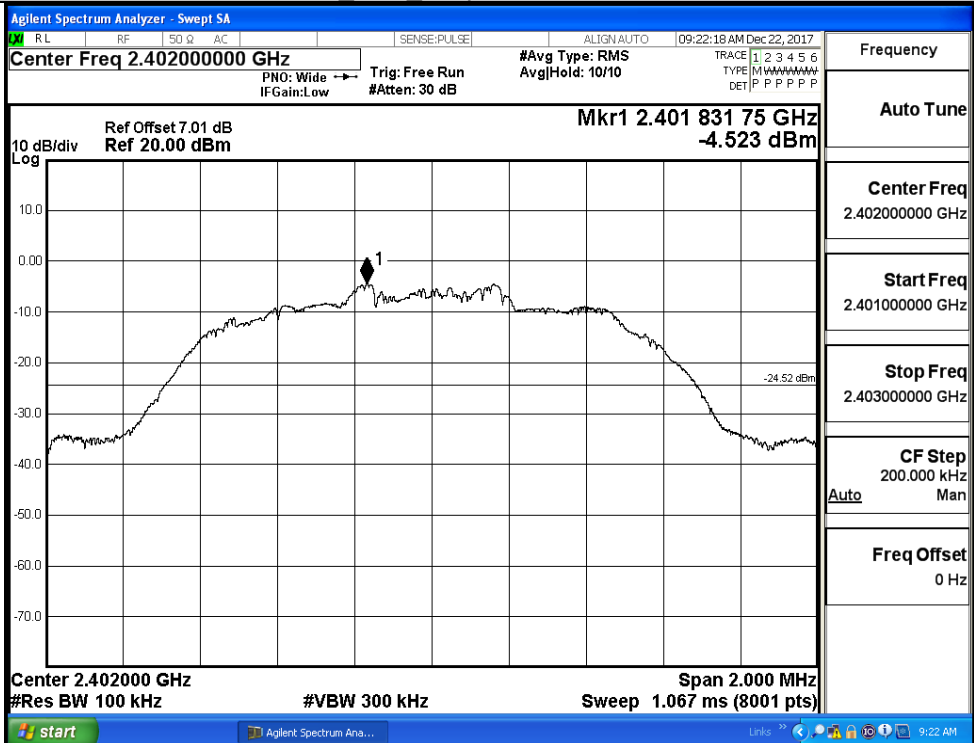


Puw

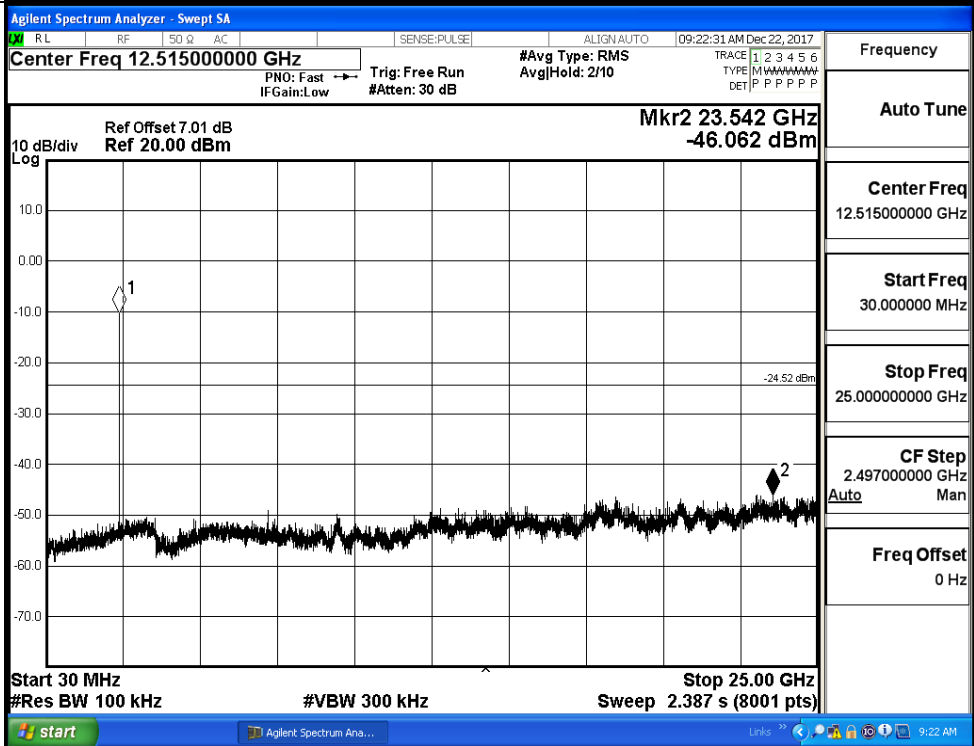


8DPSK_LCH_Graphs

Pref

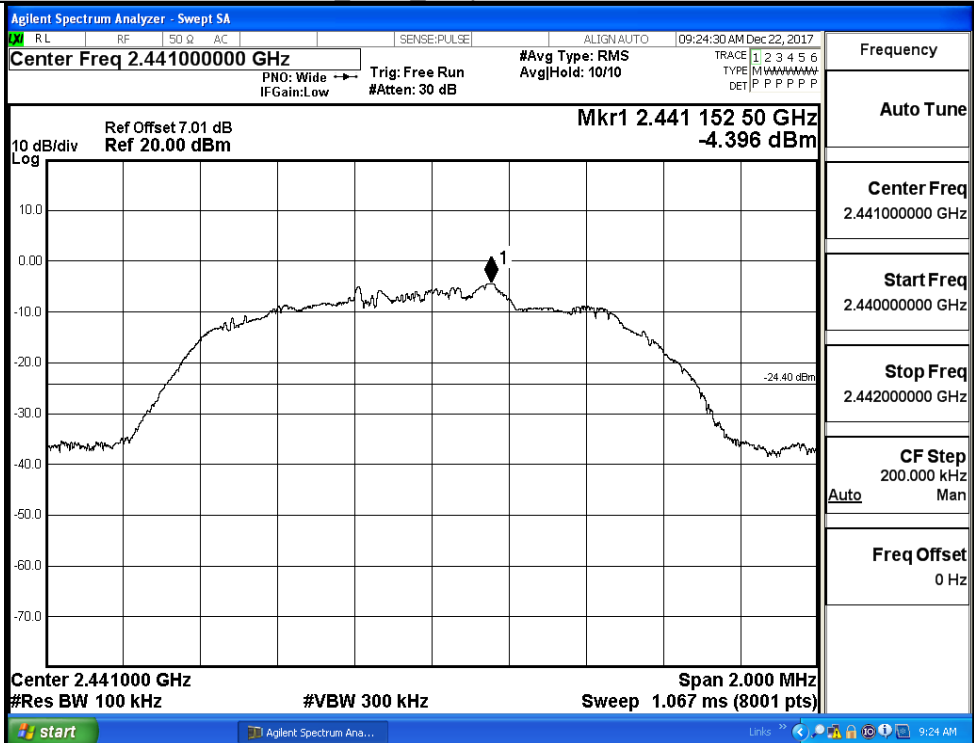


Puw

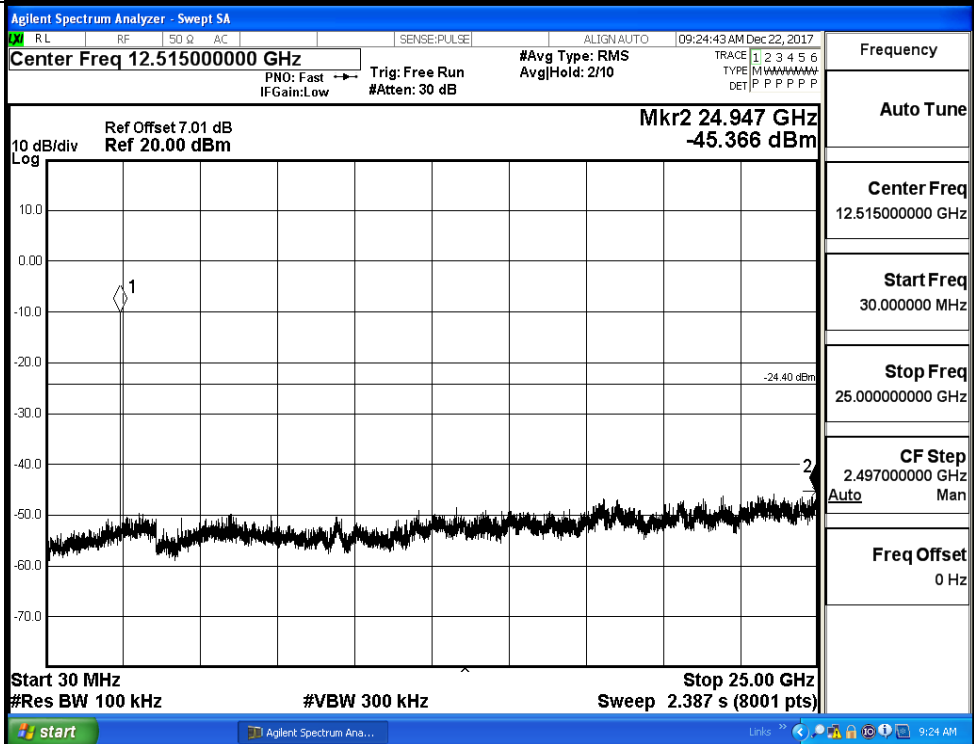


8DPSK_MCH_Graphs

Pref

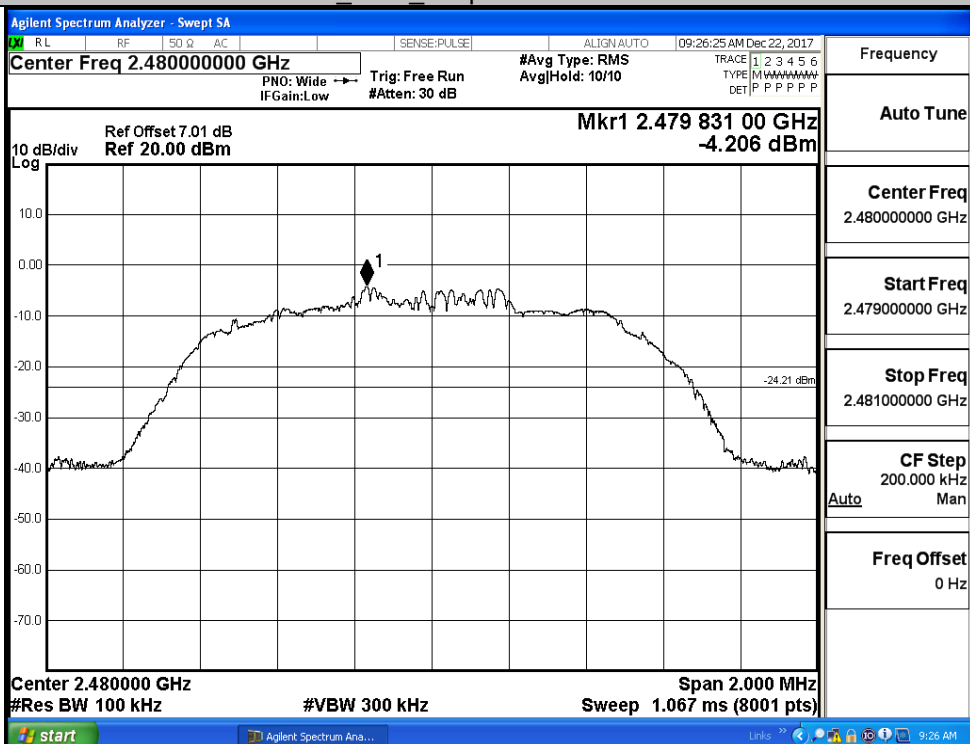


Puw

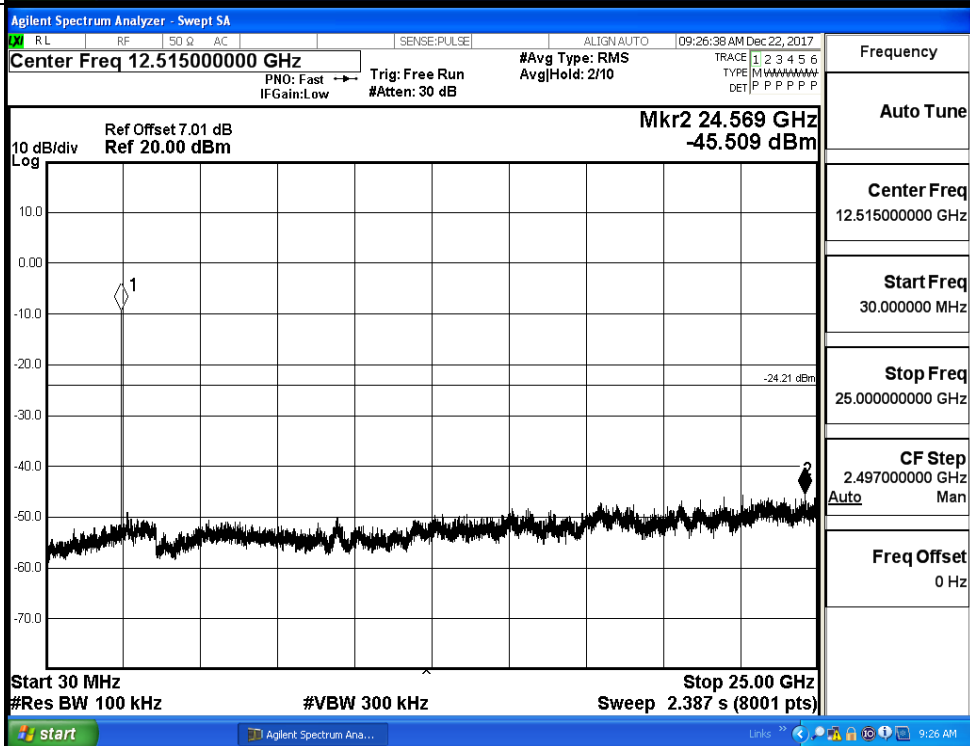


8DPSK_HCH_Graphs

Pref



Puw

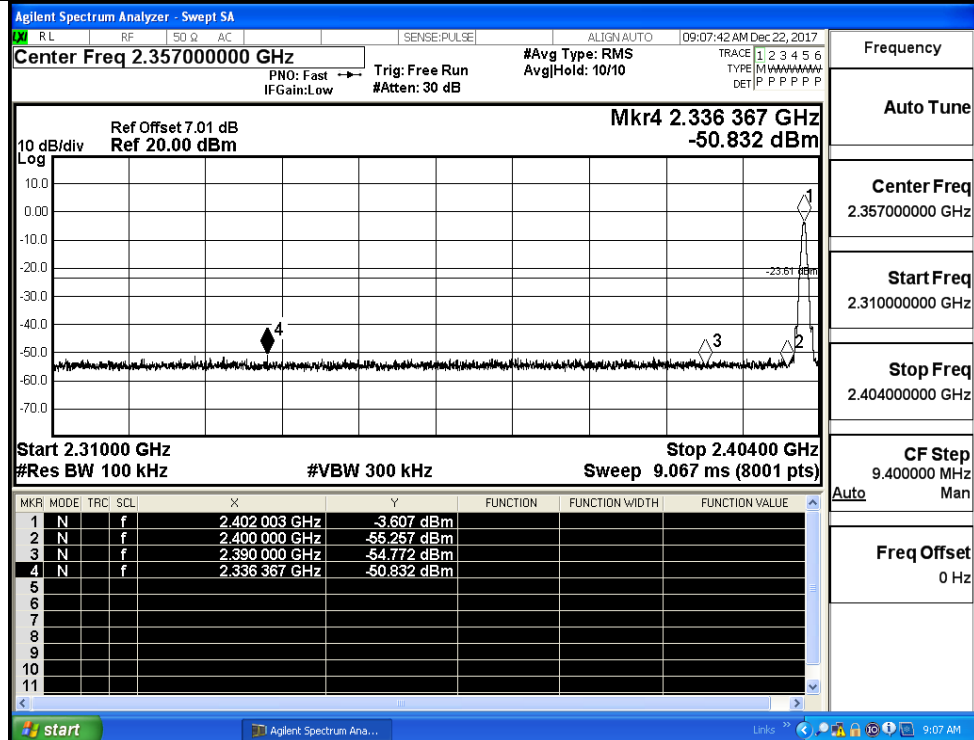


A.7 Band-edge for RF Conducted Emissions

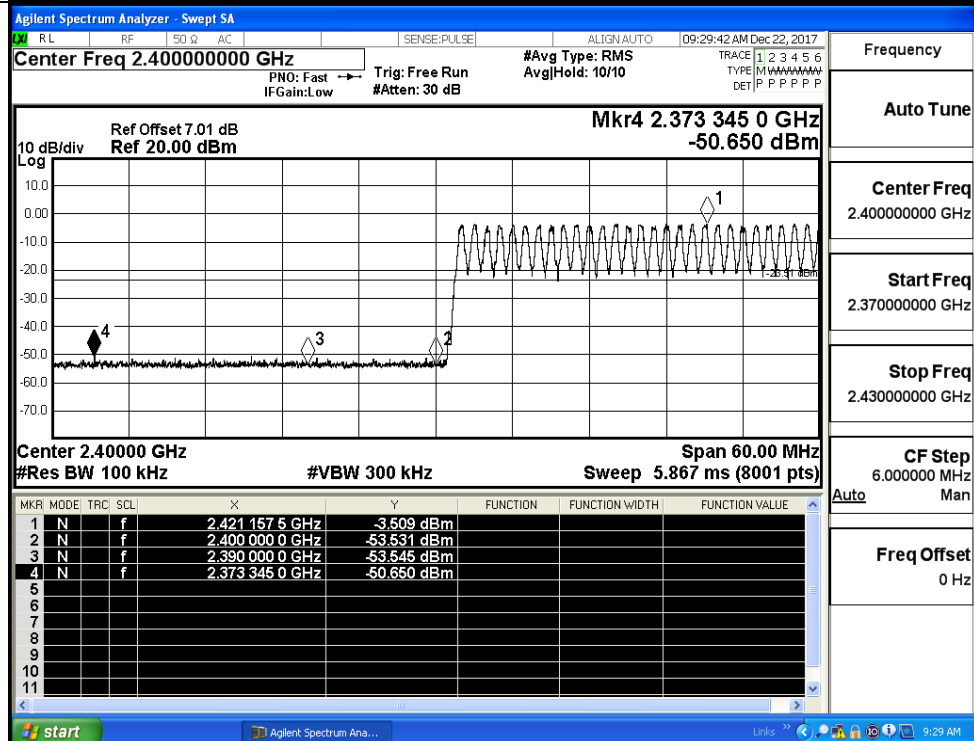
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	-3.607	Off	-50.832	-23.607	PASS
			-3.509	On	-50.650	-23.509	PASS
	HCH	2480	-3.109	Off	-51.055	-23.109	PASS
			-3.091	On	-49.241	-23.091	PASS
$\pi/4$ DQPSK	LCH	2402	-5.066	Off	-51.168	-25.066	PASS
			-4.334	On	-50.144	-24.334	PASS
	HCH	2480	-4.038	Off	-51.070	-24.038	PASS
			-4.120	On	-50.467	-24.120	PASS
8DPSK	LCH	2402	-4.485	Off	-51.562	-24.485	PASS
			-4.490	On	-50.790	-24.490	PASS
	HCH	2480	-4.231	Off	-51.472	-24.231	PASS
			-4.238	On	-50.564	-24.238	PASS

Test Graphs

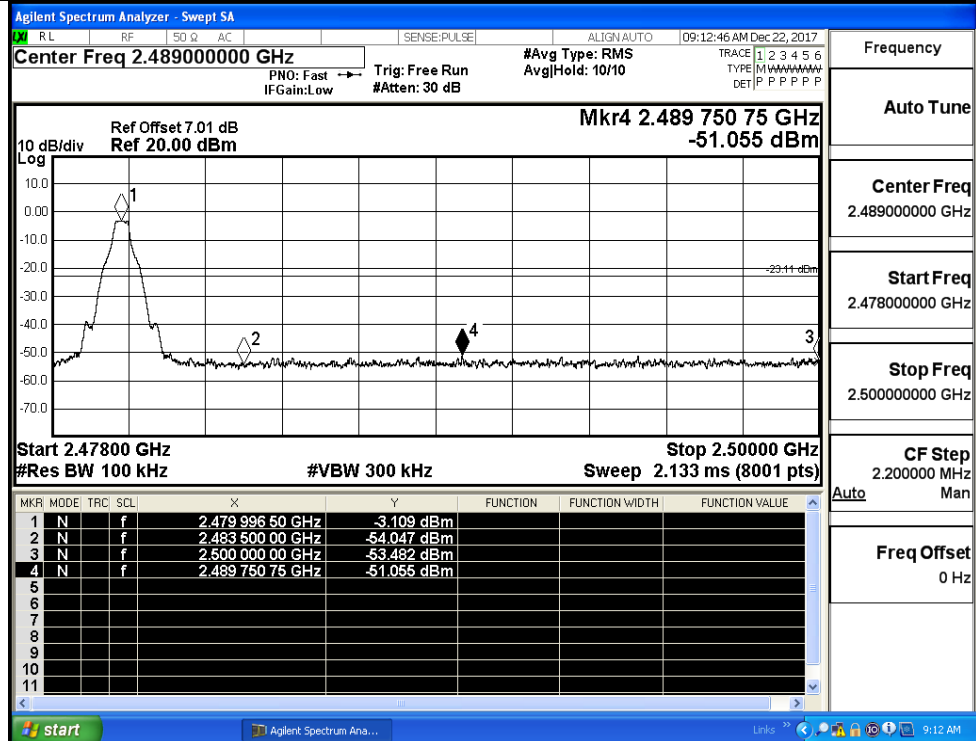
GFSK/LCH/No Hop



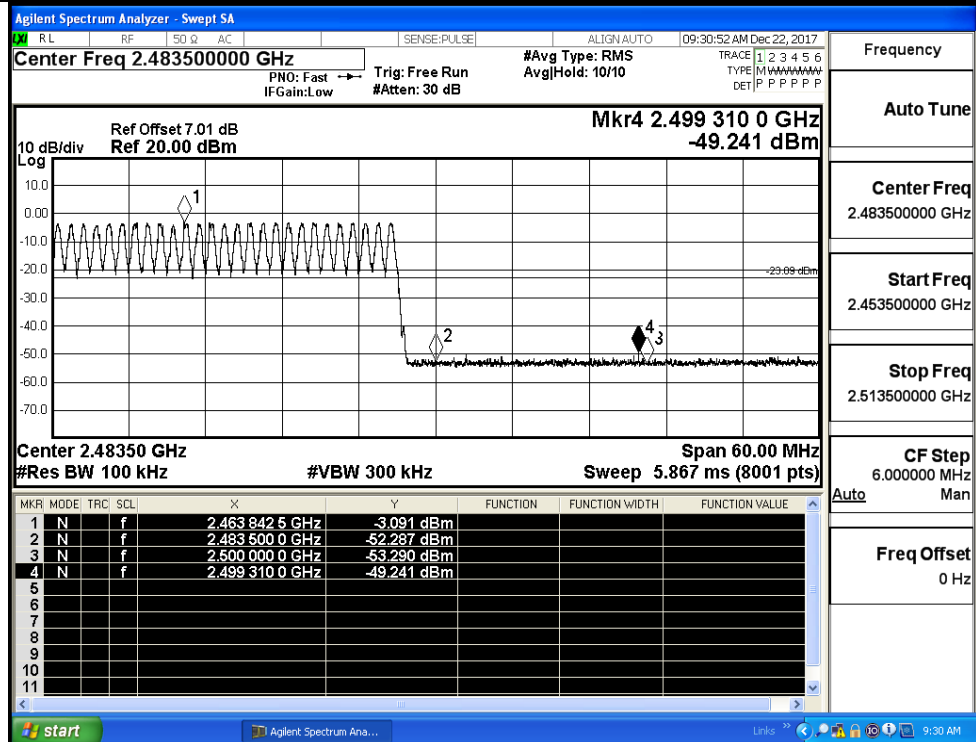
GFSK/LCH/Hop



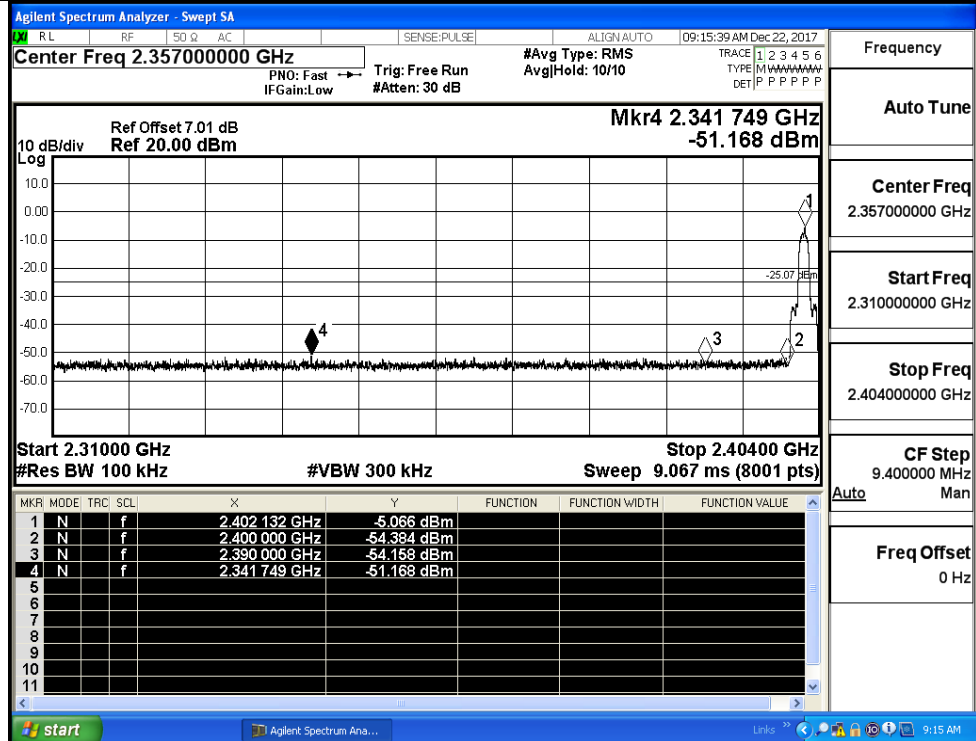
GFSK/HCH/No Hop



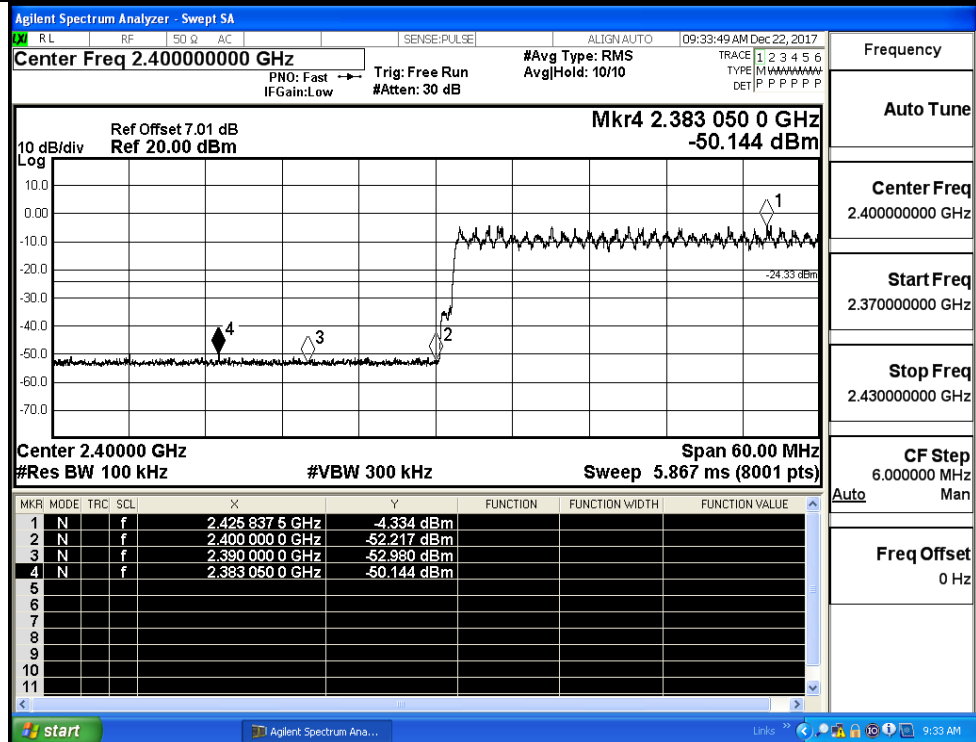
GFSK/HCH/Hop



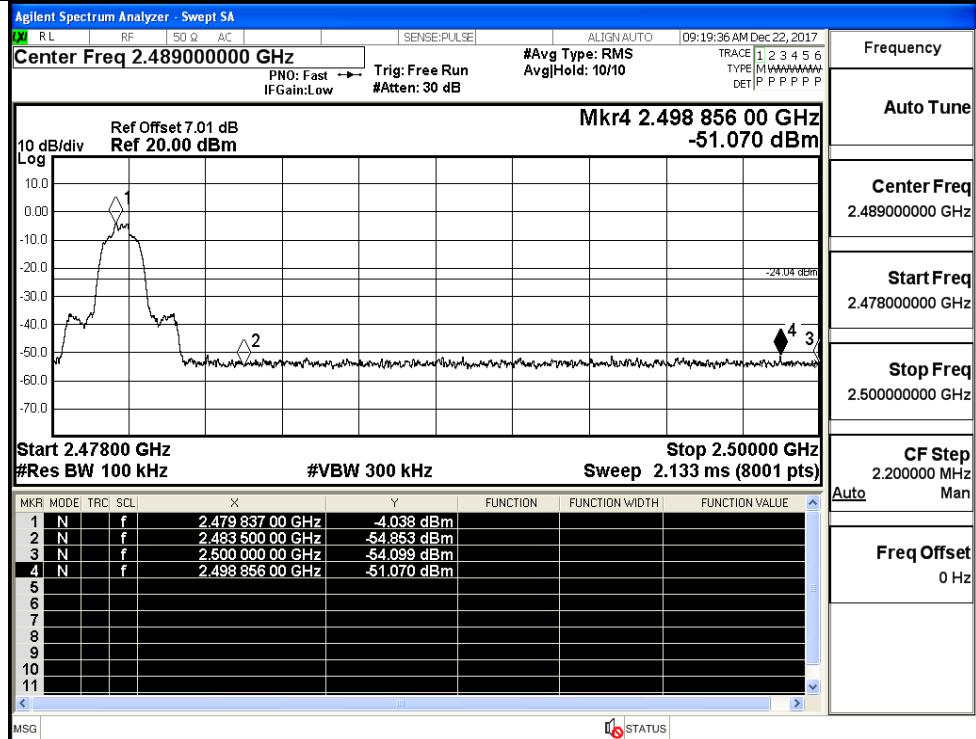
$\pi/4$ DQPSK/LCH/No
Hop



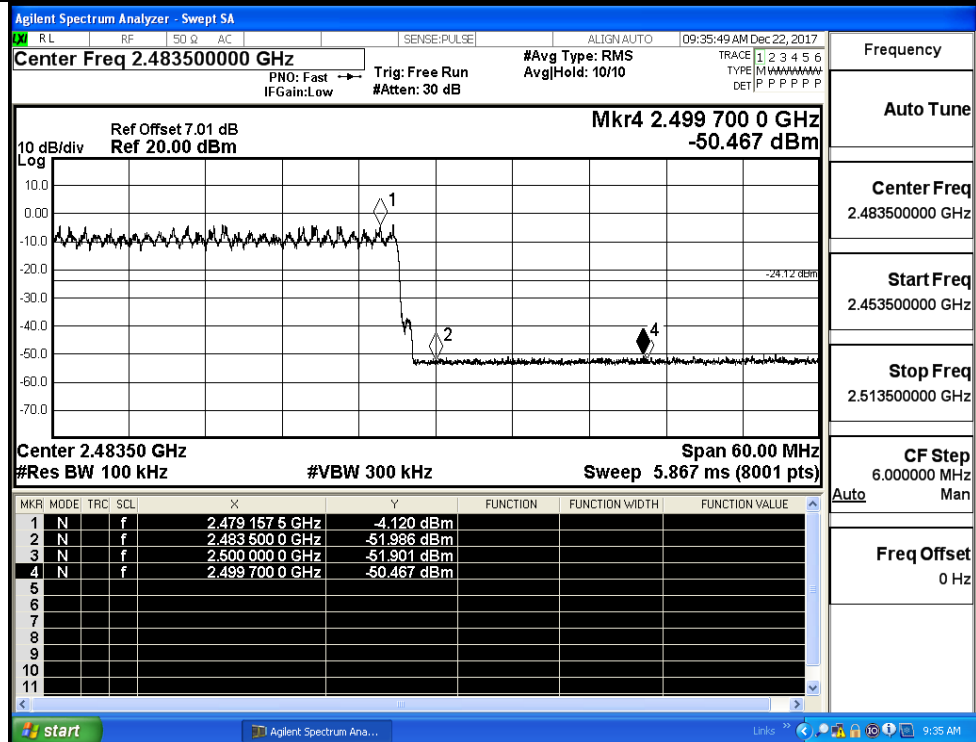
$\pi/4$ DQPSK/LCH/Hop



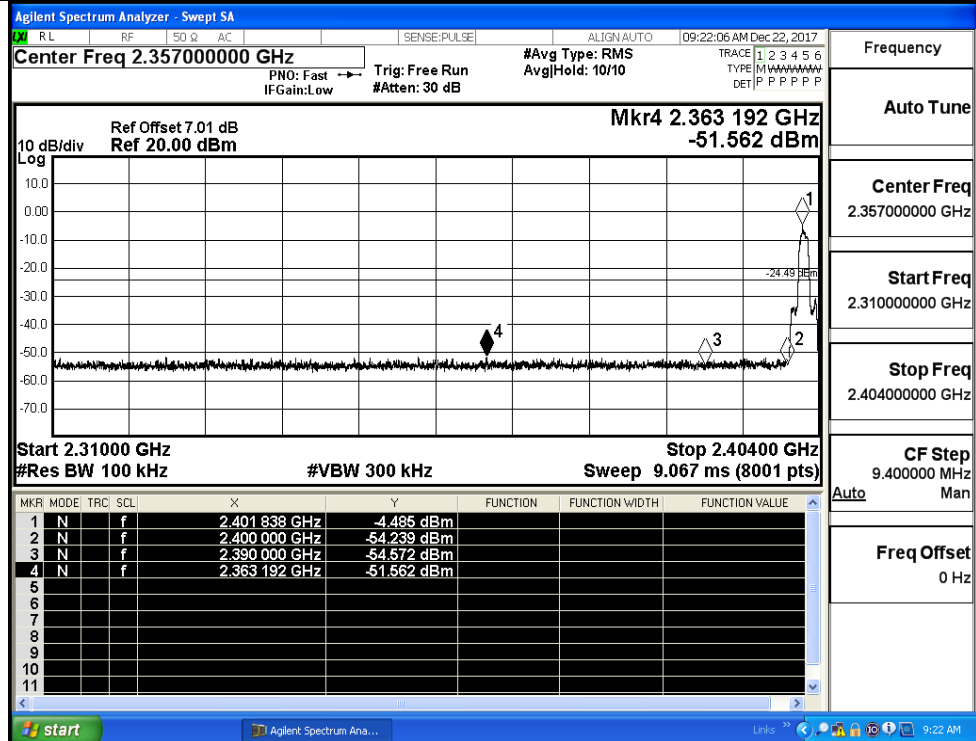
$\pi/4$ DQPSK/HCH/No
Hop



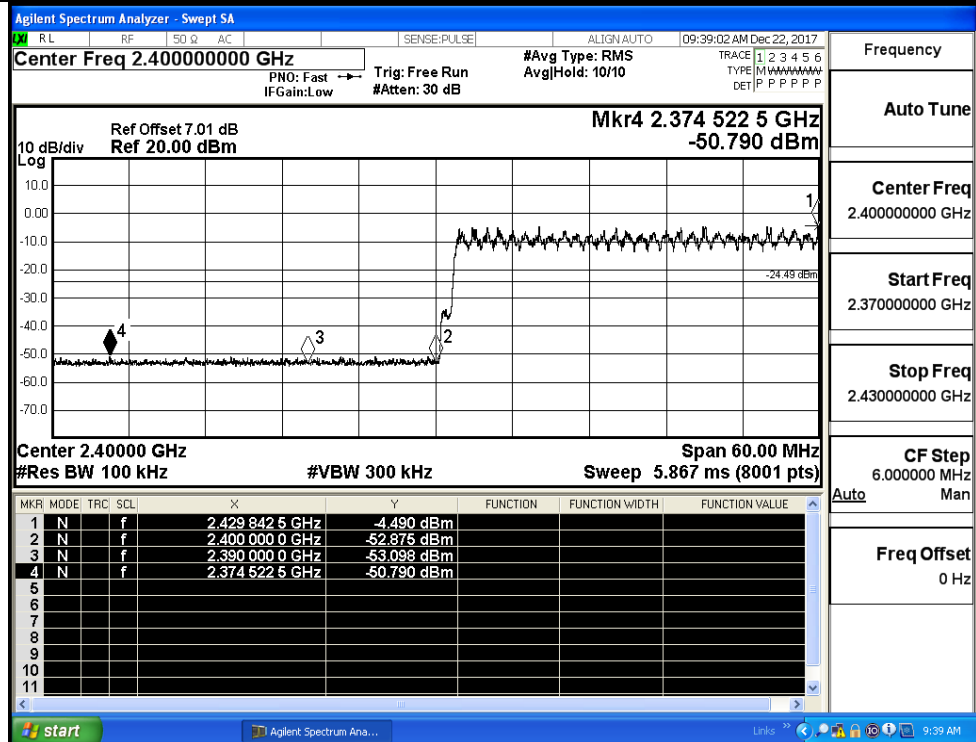
$\pi/4$ DQPSK/HCH/Hop



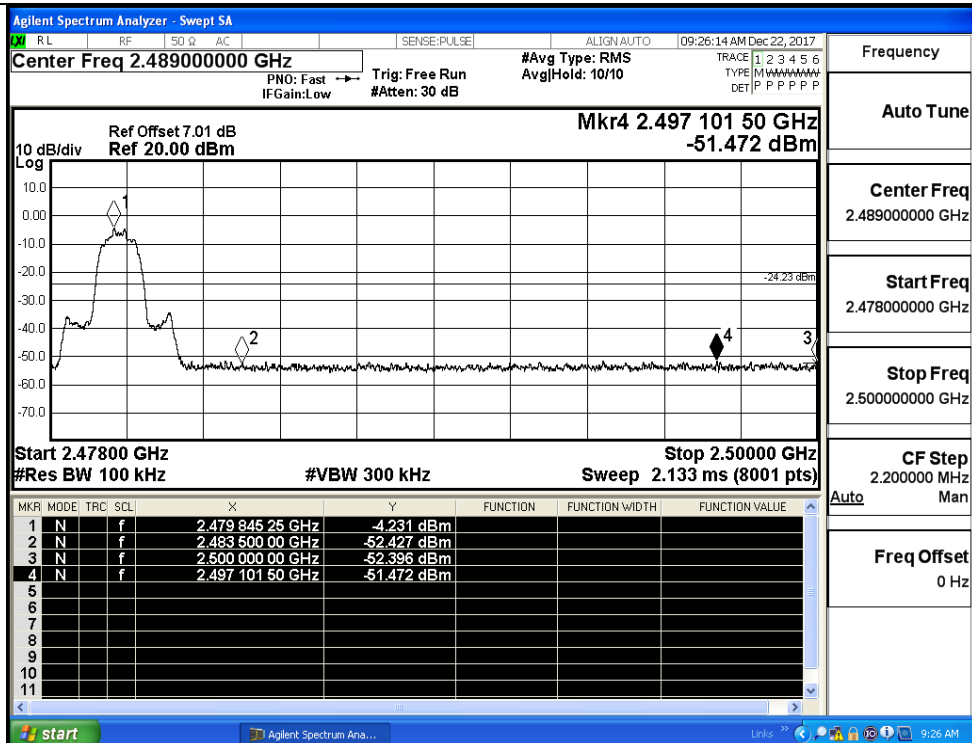
8DPSK/LCH/No Hop



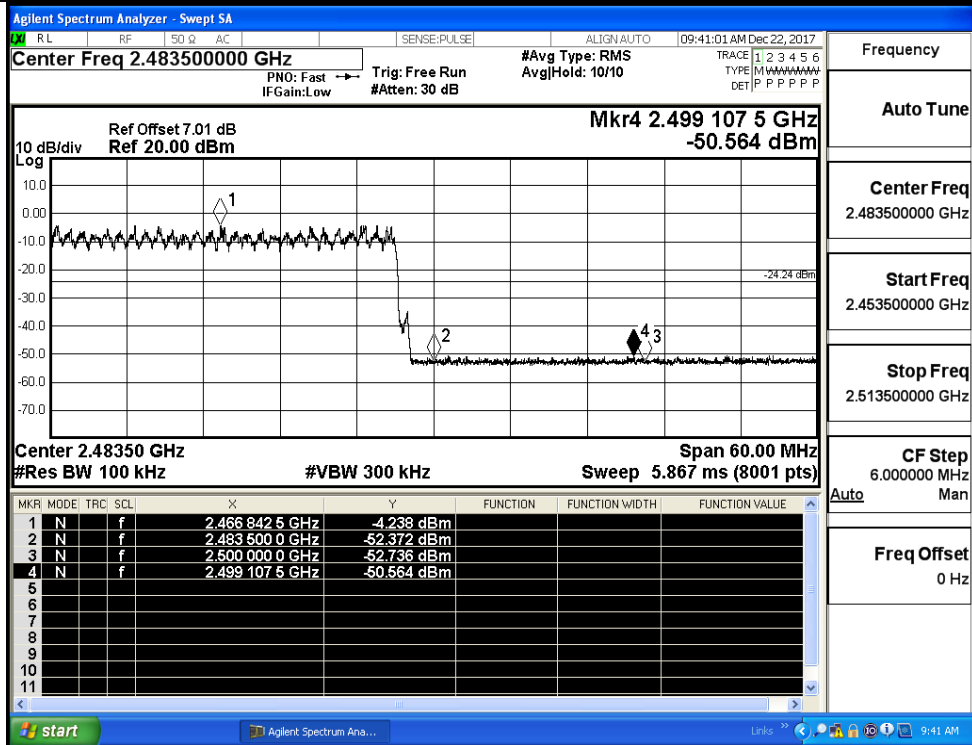
8DPSK/LCH/Hop



8DPSK/HCH/No Hop



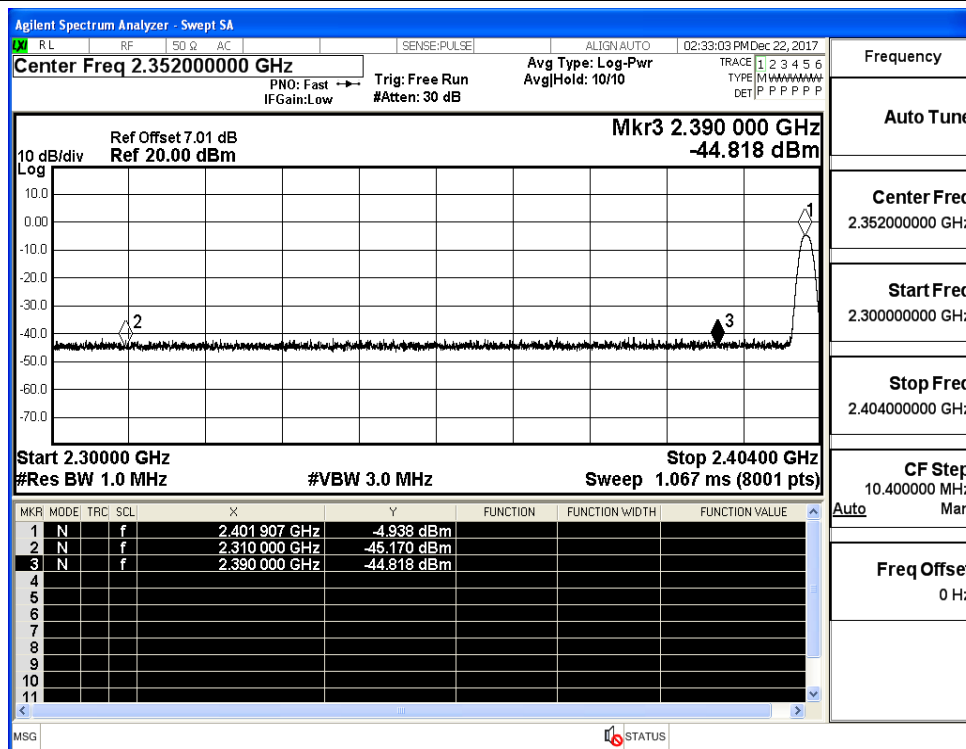
8DPSK/HCH/Hop



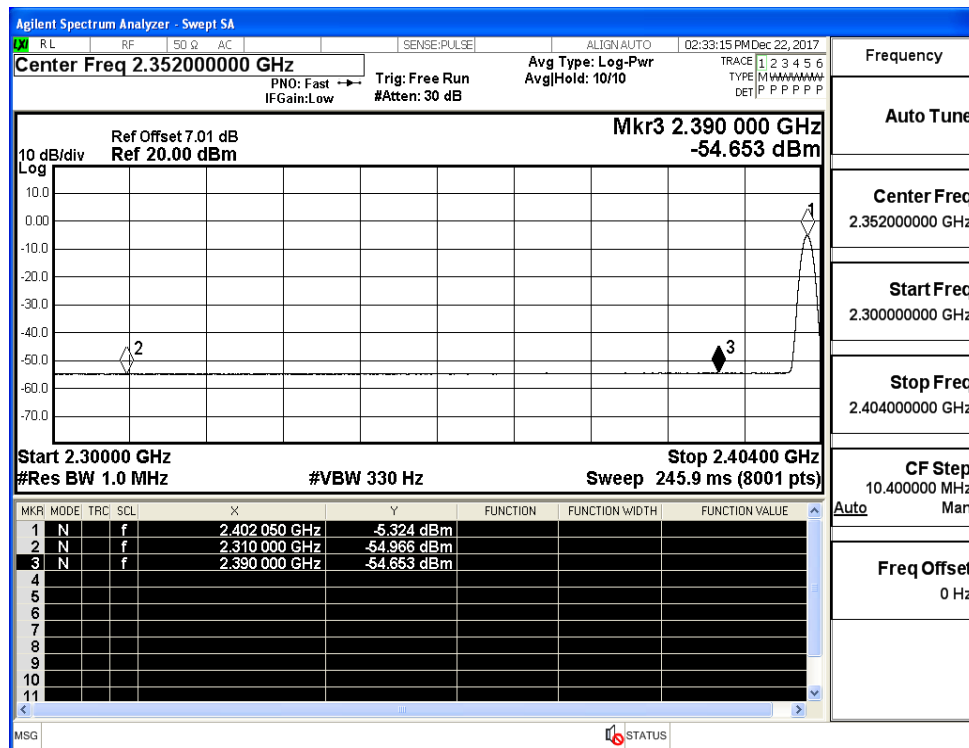
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-45.17	2.0	0	52.09	PEAK	74	PASS
	Off	2310.0	-54.97	2.0	0	42.29	AV	54	PASS
	Off	2390.0	-44.82	2.0	0	52.44	PEAK	74	PASS
	Off	2390.0	-54.65	2.0	0	42.61	AV	54	PASS
	Off	2483.5	-42.98	2.0	0	54.28	PEAK	74	PASS
	Off	2483.5	-54.42	2.0	0	42.84	AV	54	PASS
	Off	2500.0	-43.46	2.0	0	53.80	PEAK	74	PASS
	Off	2500.0	-54.23	2.0	0	43.03	AV	54	PASS
$\pi/4$ DQPSK	Off	2310.0	-44.20	2.0	0	53.06	PEAK	74	PASS
	Off	2310.0	-54.77	2.0	0	42.49	AV	54	PASS
	Off	2390.0	-43.68	2.0	0	53.58	PEAK	74	PASS
	Off	2390.0	-54.58	2.0	0	42.68	AV	54	PASS
	Off	2483.5	-44.04	2.0	0	53.22	PEAK	74	PASS
	Off	2483.5	-54.11	2.0	0	43.15	AV	54	PASS
	Off	2500.0	-44.59	2.0	0	52.67	PEAK	74	PASS
	Off	2500.0	-54.22	2.0	0	43.04	AV	54	PASS
8DPSK	Off	2310.0	-45.48	2.0	0	51.78	PEAK	74	PASS
	Off	2310.0	-54.84	2.0	0	42.42	AV	54	PASS
	Off	2390.0	-44.26	2.0	0	53.00	PEAK	74	PASS
	Off	2390.0	-54.50	2.0	0	42.76	AV	54	PASS
	Off	2483.5	-43.54	2.0	0	53.72	PEAK	74	PASS
	Off	2483.5	-54.21	2.0	0	43.05	AV	54	PASS
	Off	2500.0	-44.08	2.0	0	53.18	PEAK	74	PASS
	Off	2500.0	-54.11	2.0	0	43.15	AV	54	PASS

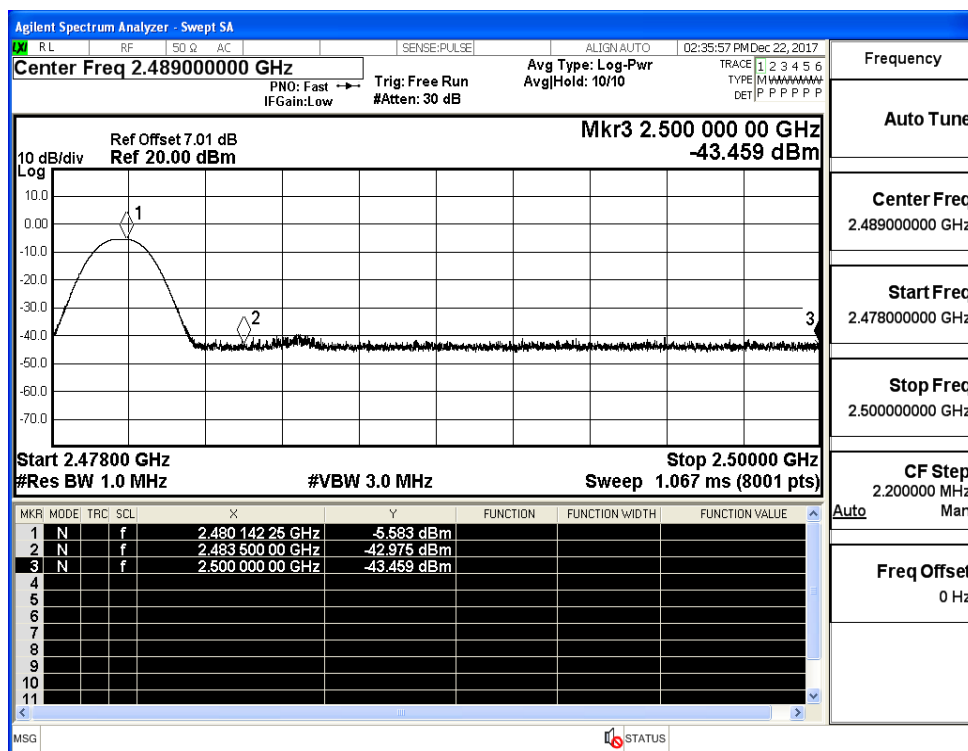
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (Low Channel)



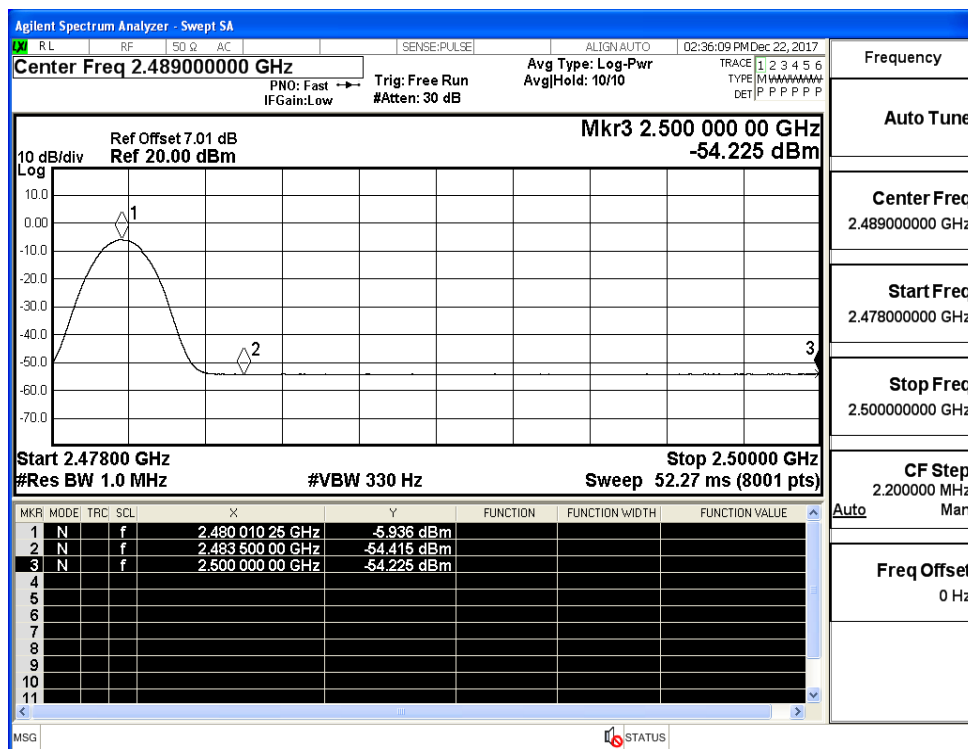
Restrict-band band-edge measurements_Hopping Off_GFSK_Average (Low Channel)

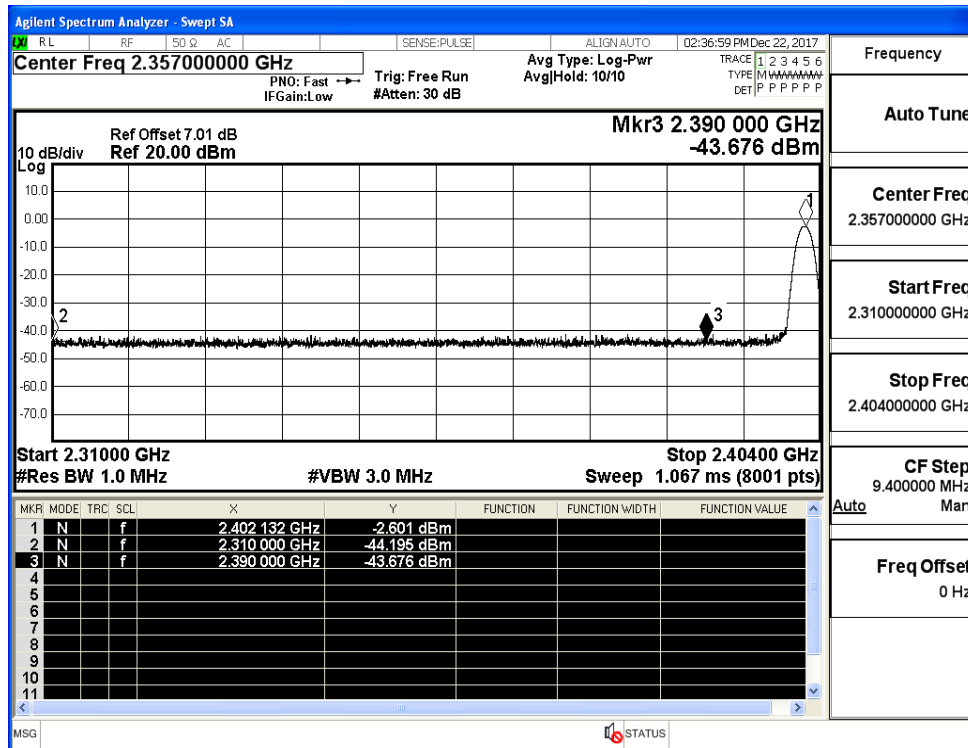
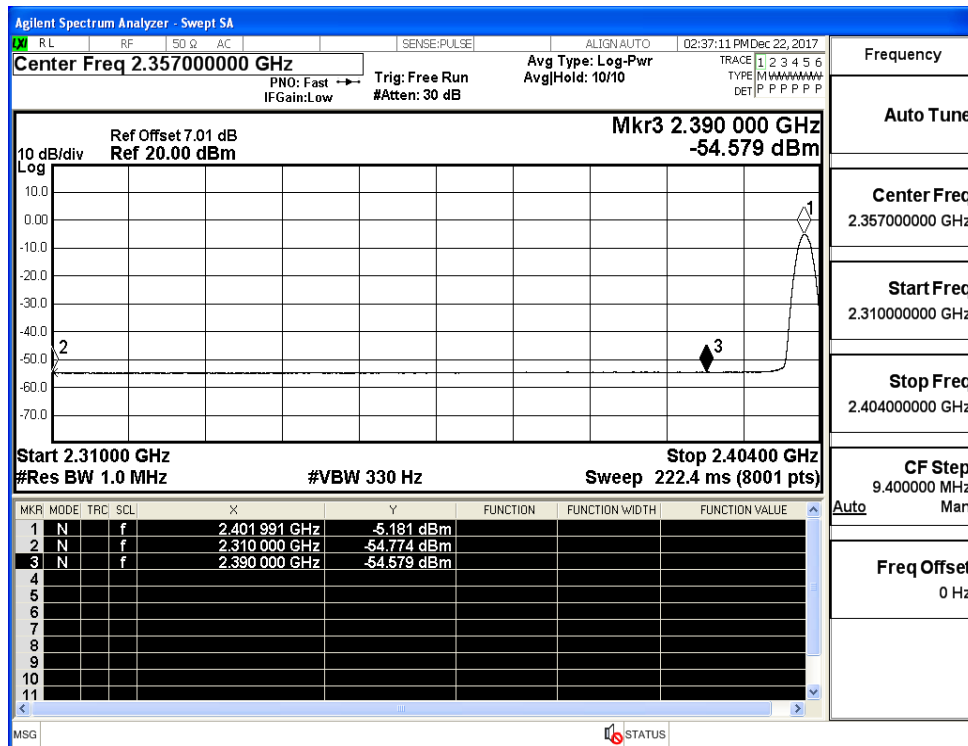


Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (High Channel)

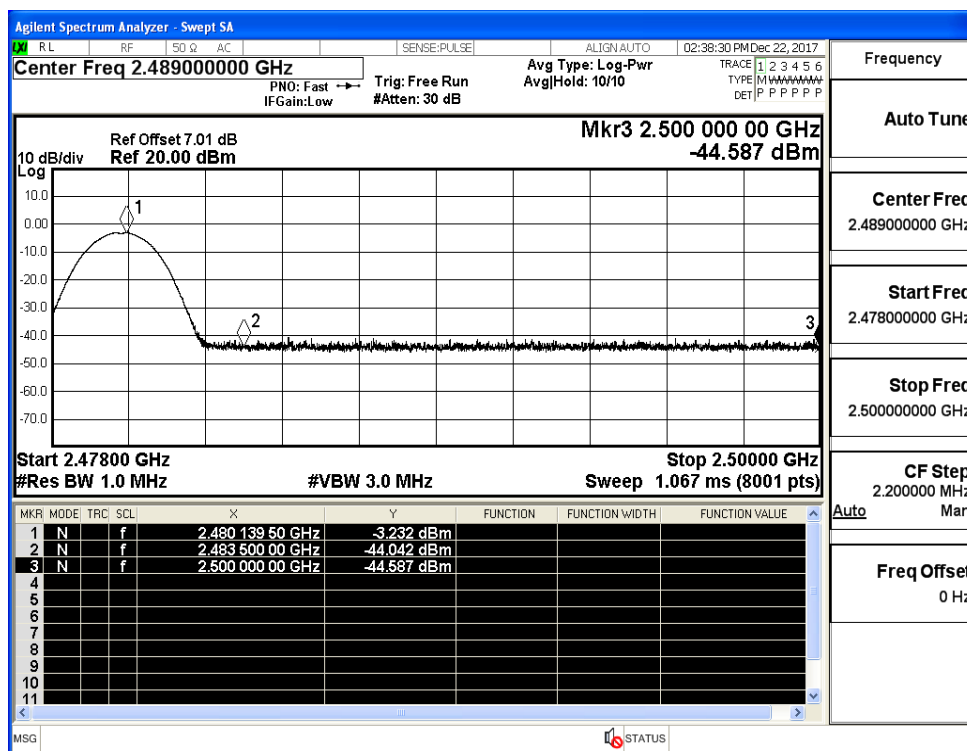


Restrict-band band-edge measurements_Hopping Off_GFSK_Average (High Channel)

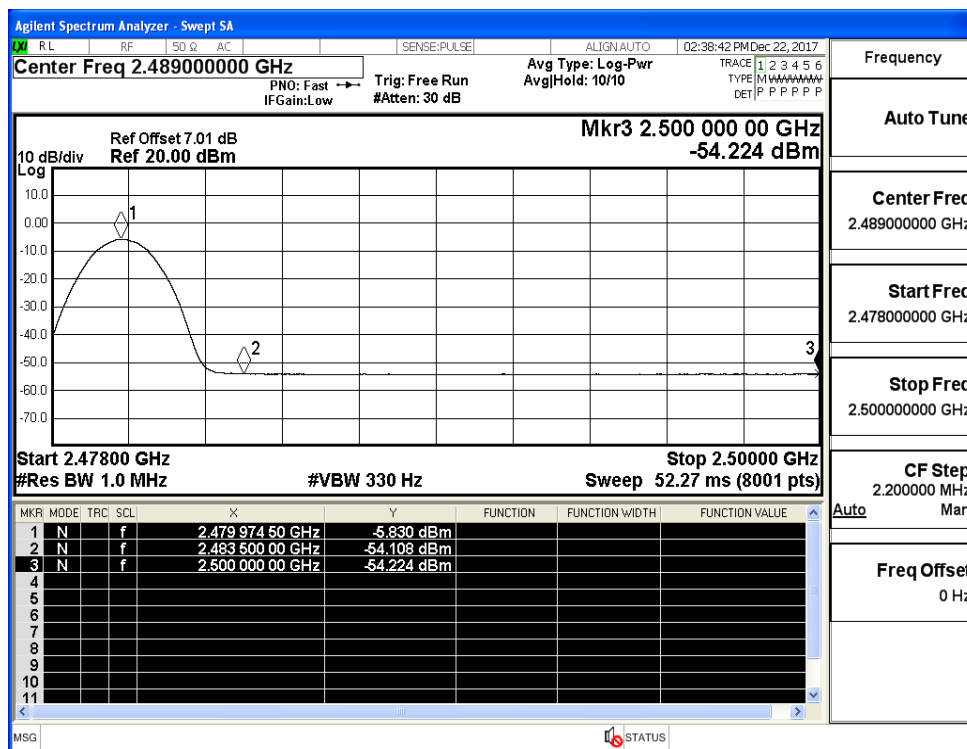


Restrict-band band-edge measurements_Hopping Off $\pi/4$ -DQPSK_PEAK (Low Channel)Restrict-band band-edge measurements_Hopping Off $\pi/4$ -DQPSK_Average (Low Channel)

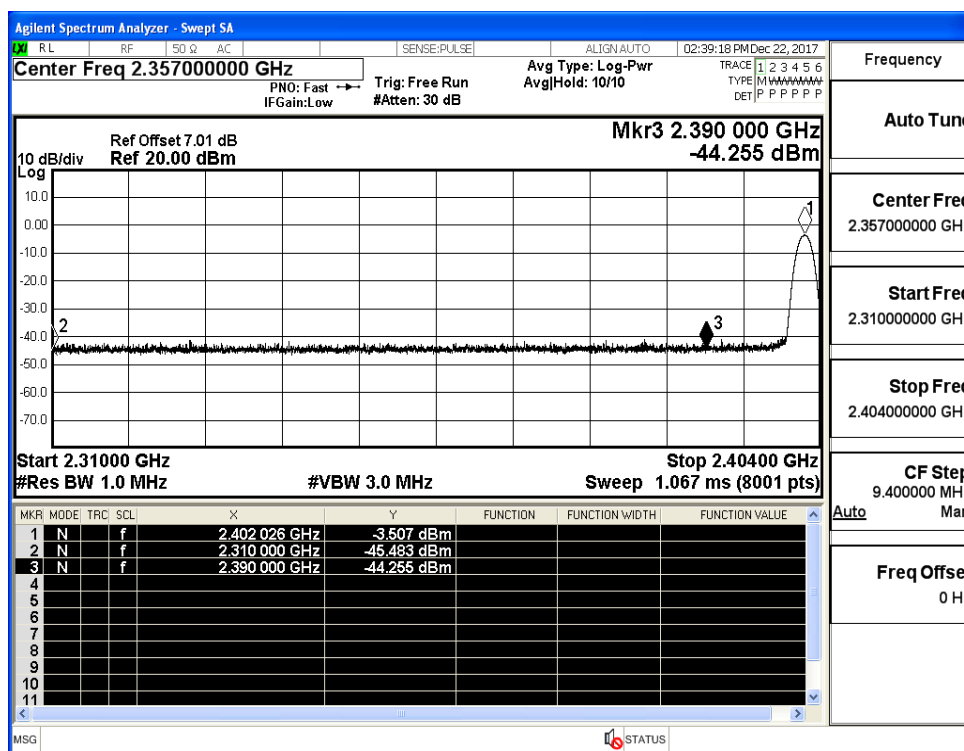
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



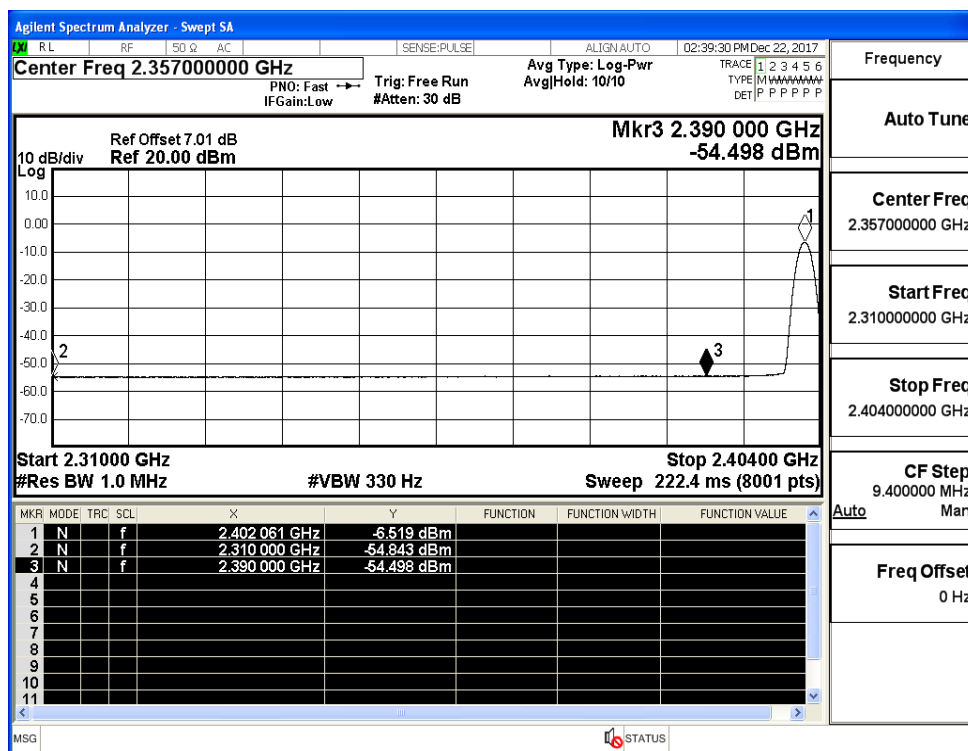
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



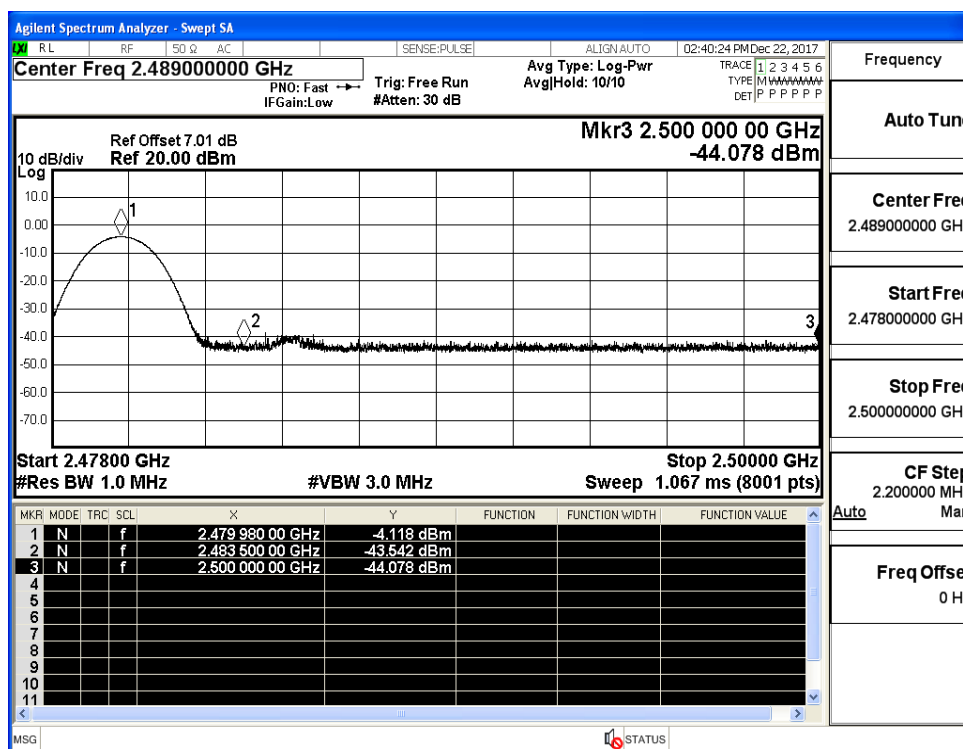
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



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)

