

Appendix A

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

Product Name: JAYS m-Five True Wireless

Trade Mark: JAYS

Test Model: T00234

Environmental Conditions

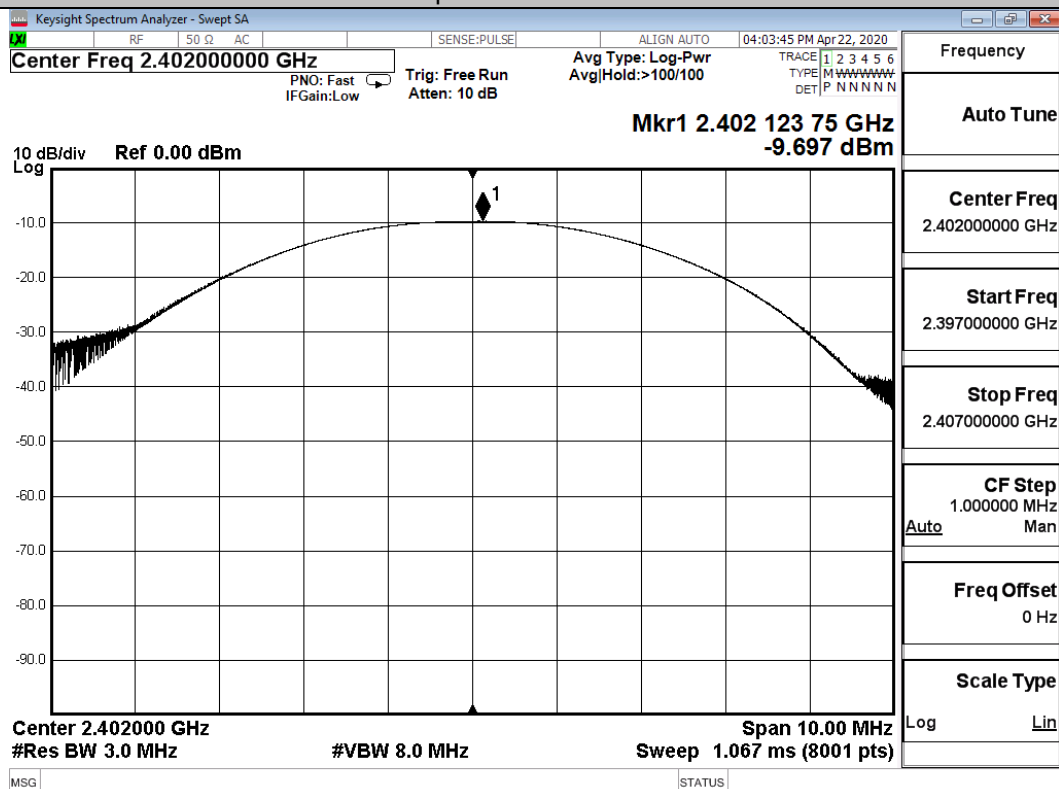
Temperature:	23.3° C
Relative Humidity:	54%
ATM Pressure:	100.0 kPa
Test Engineer:	Chuang Wang
Supervised by:	Jayden Zhuo

A.1 Maximum Conducted Peak Output Power

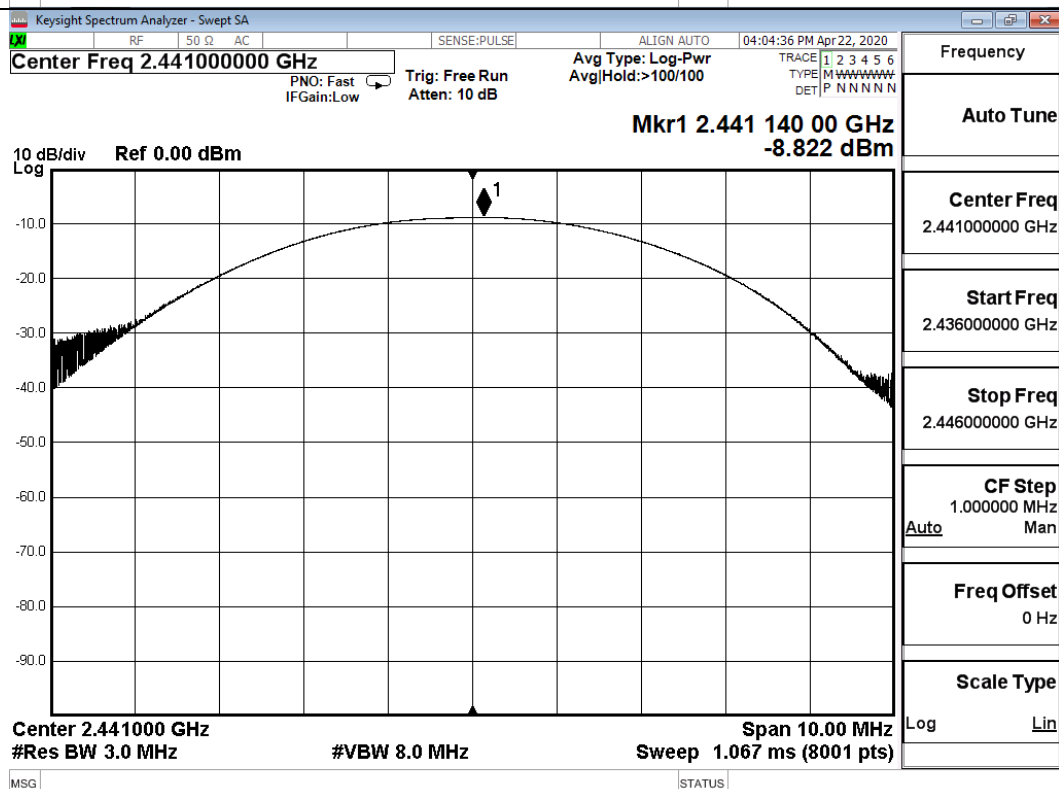
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-9.697	21	PASS
	MCH	-8.822	21	PASS
	HCH	-8.199	21	PASS
$\pi/4$ DQPSK	LCH	-8.883	21	PASS
	MCH	-8.048	21	PASS
	HCH	-7.370	21	PASS

Test Graphs

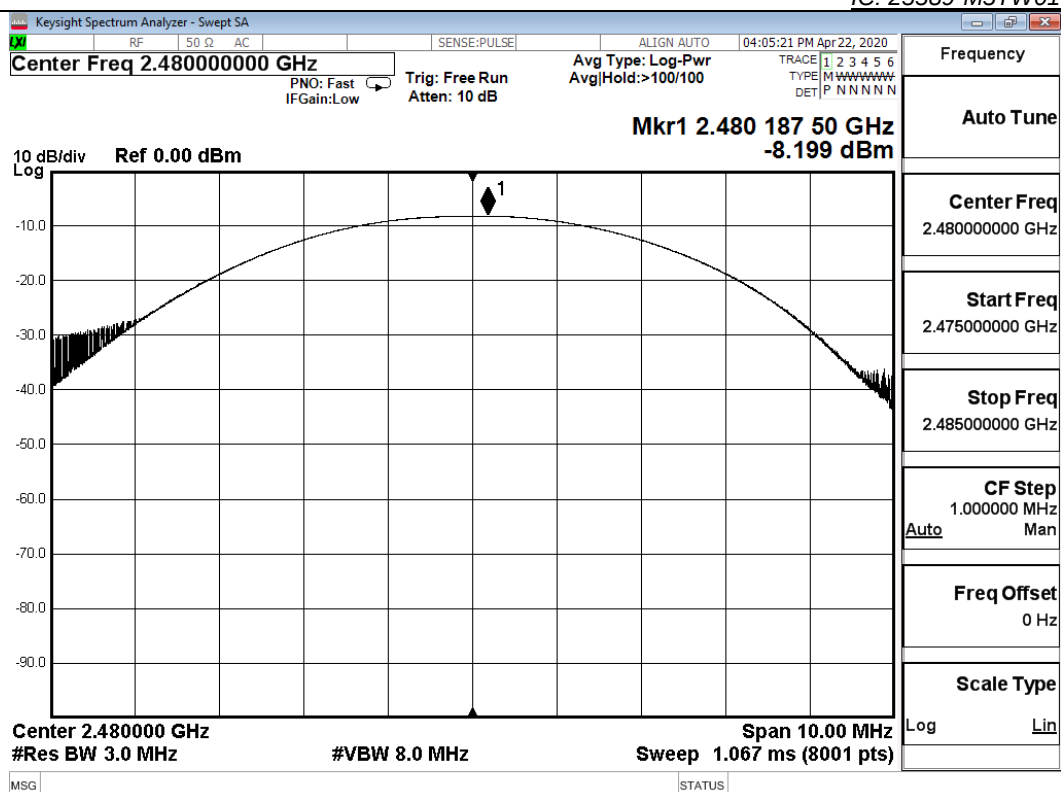
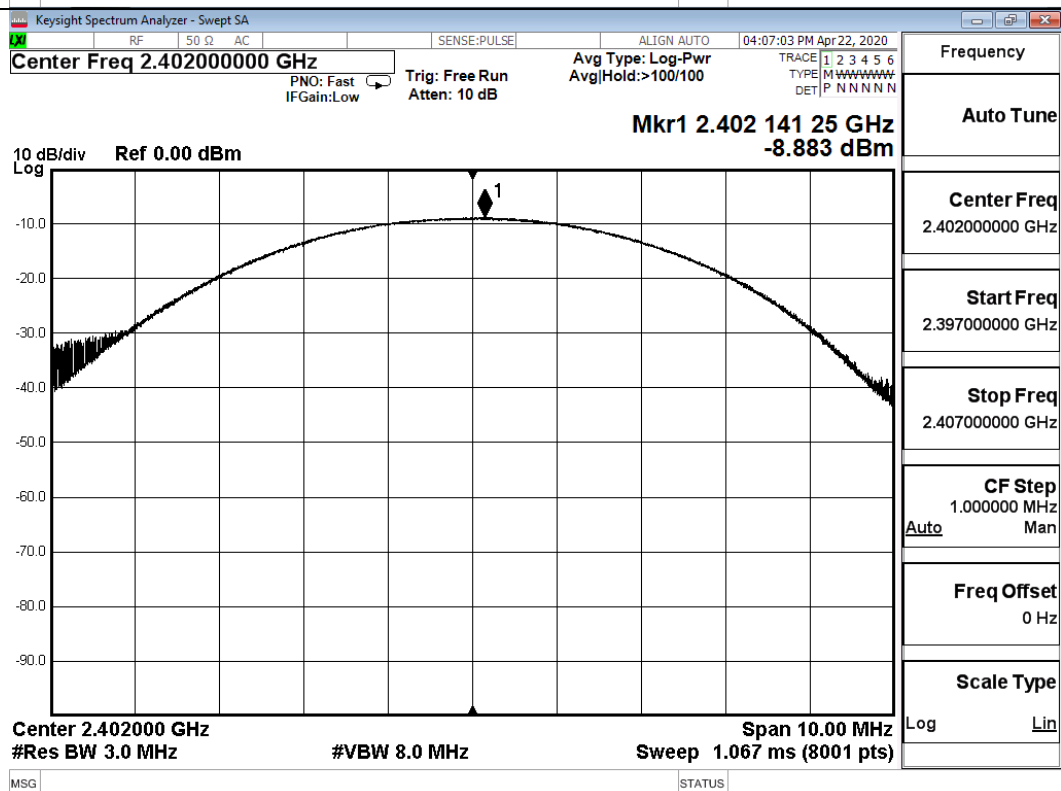
GFSK/LCH

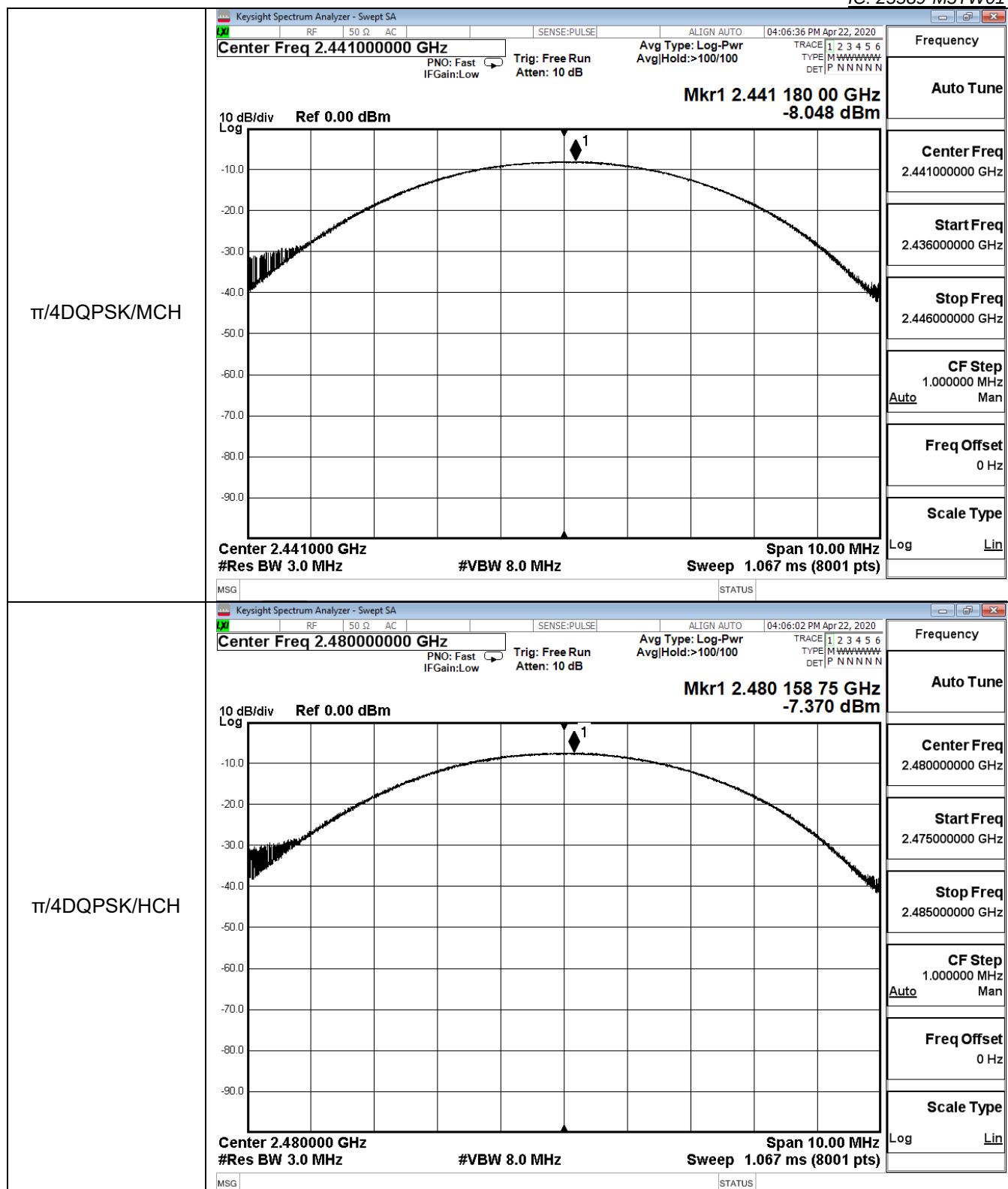


GFSK/MCH



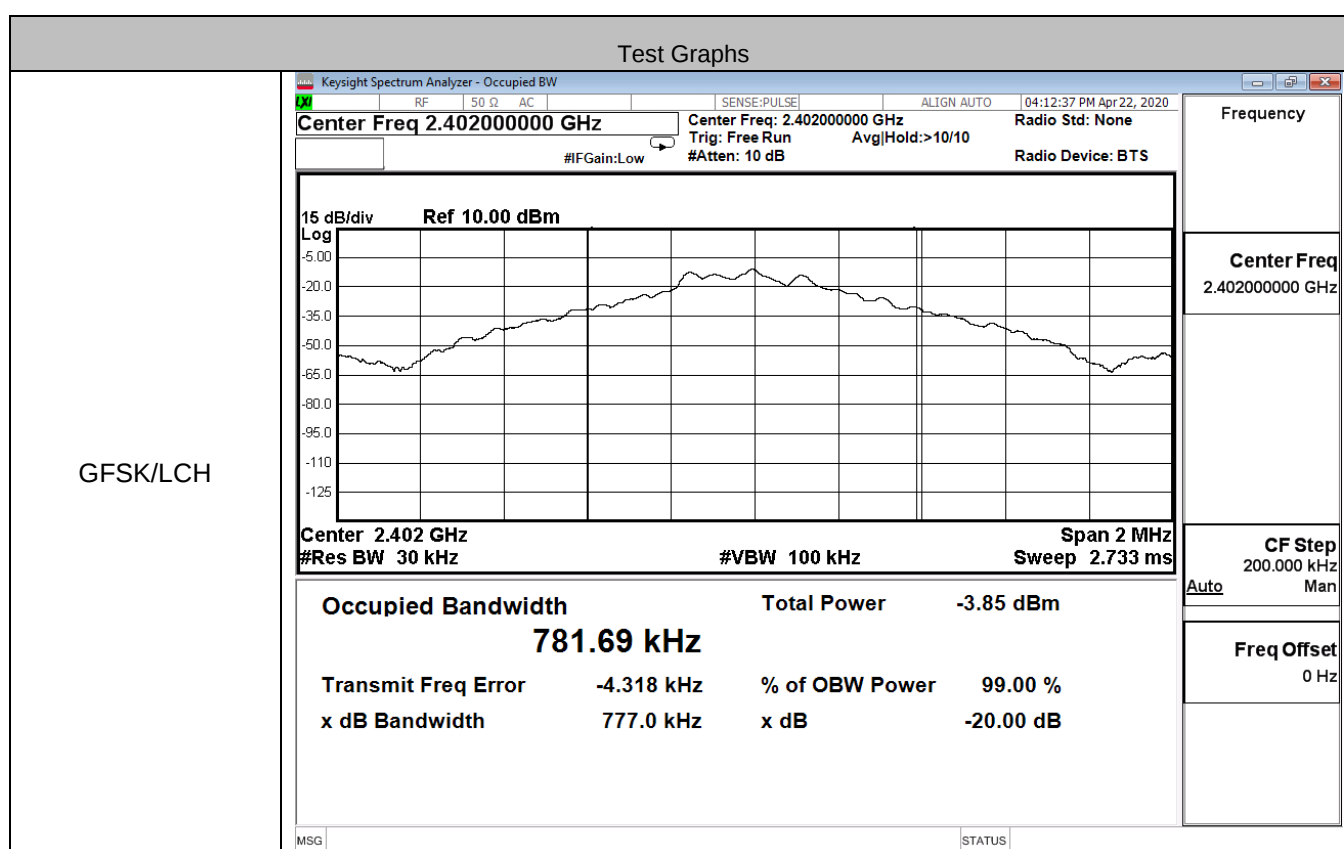
GFSK/HCH

 $\pi/4$ DQPSK/LCH

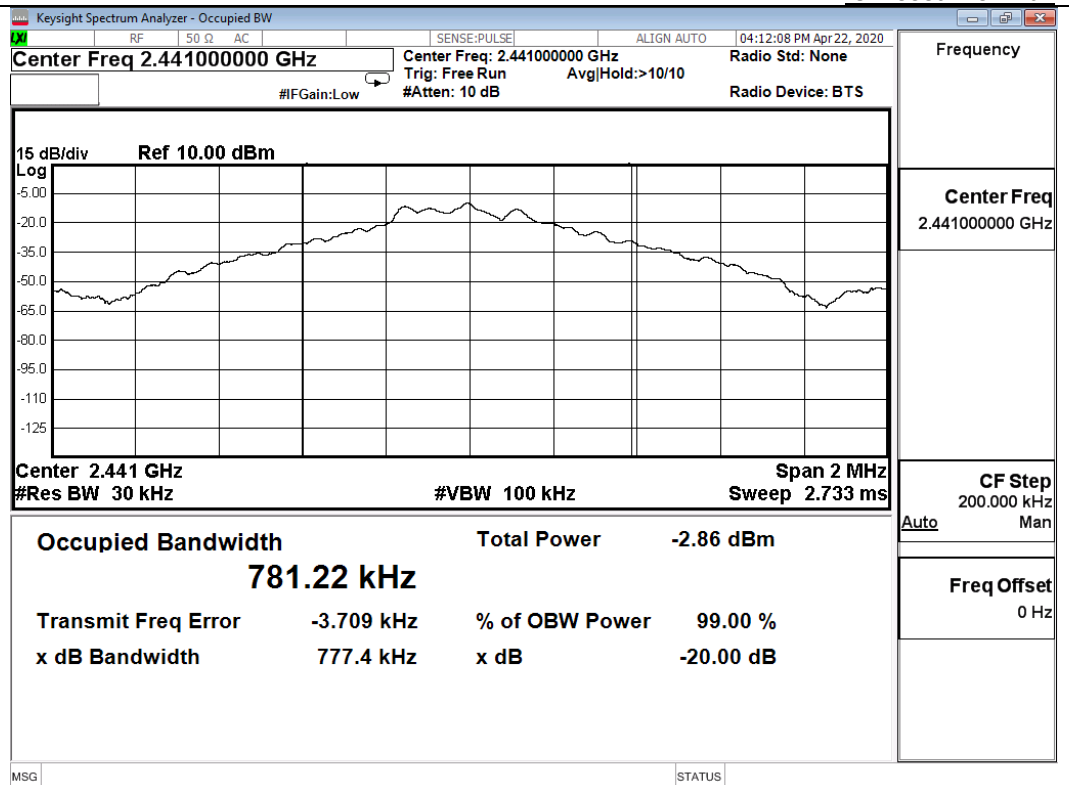


A.2 99% and 20dB Bandwidth

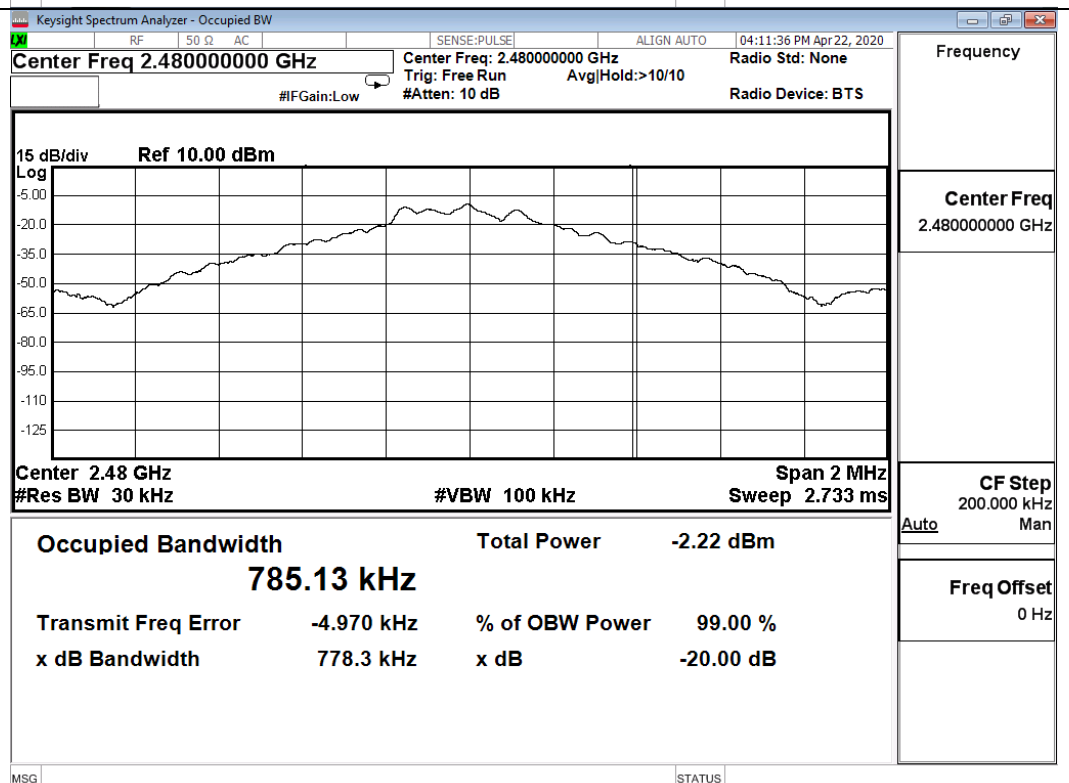
Mode	Channel.	99% Bandwidth [MHz]	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.78169	0.7770	Not Specified	PASS
	MCH	0.78122	0.7774	Not Specified	PASS
	HCH	0.78513	0.7783	Not Specified	PASS
π /4DQPSK	LCH	1.1622	1.228	Not Specified	PASS
	MCH	1.1614	1.210	Not Specified	PASS
	HCH	1.1603	1.208	Not Specified	PASS

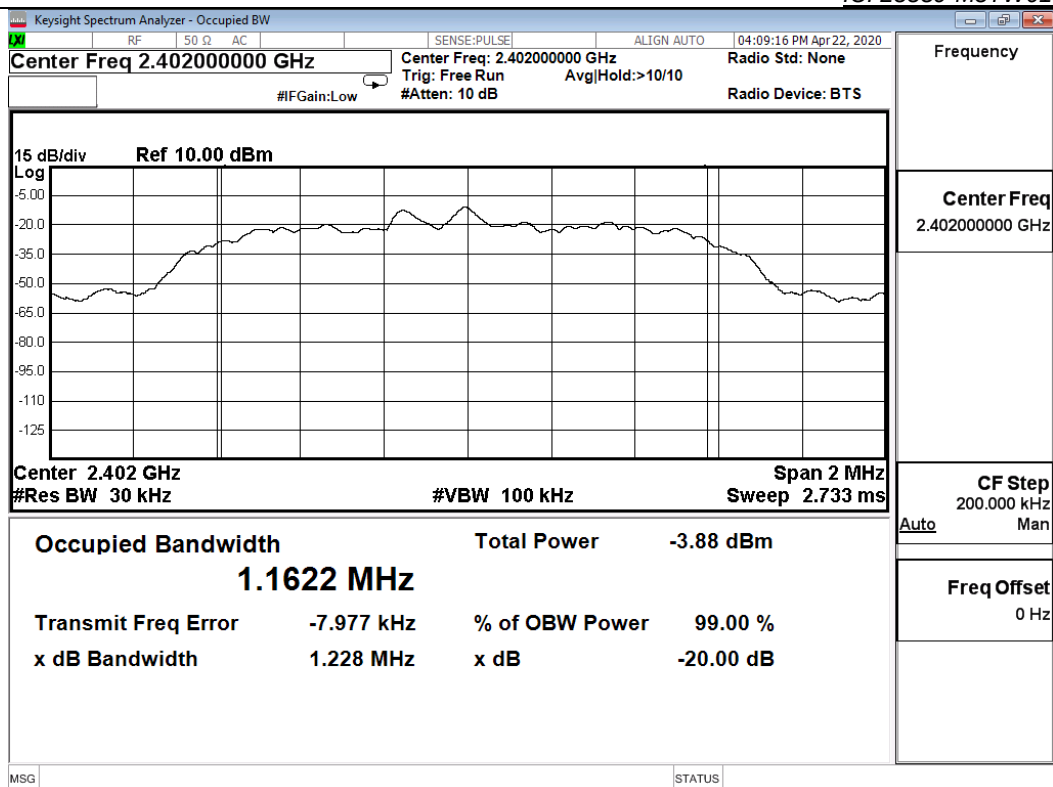
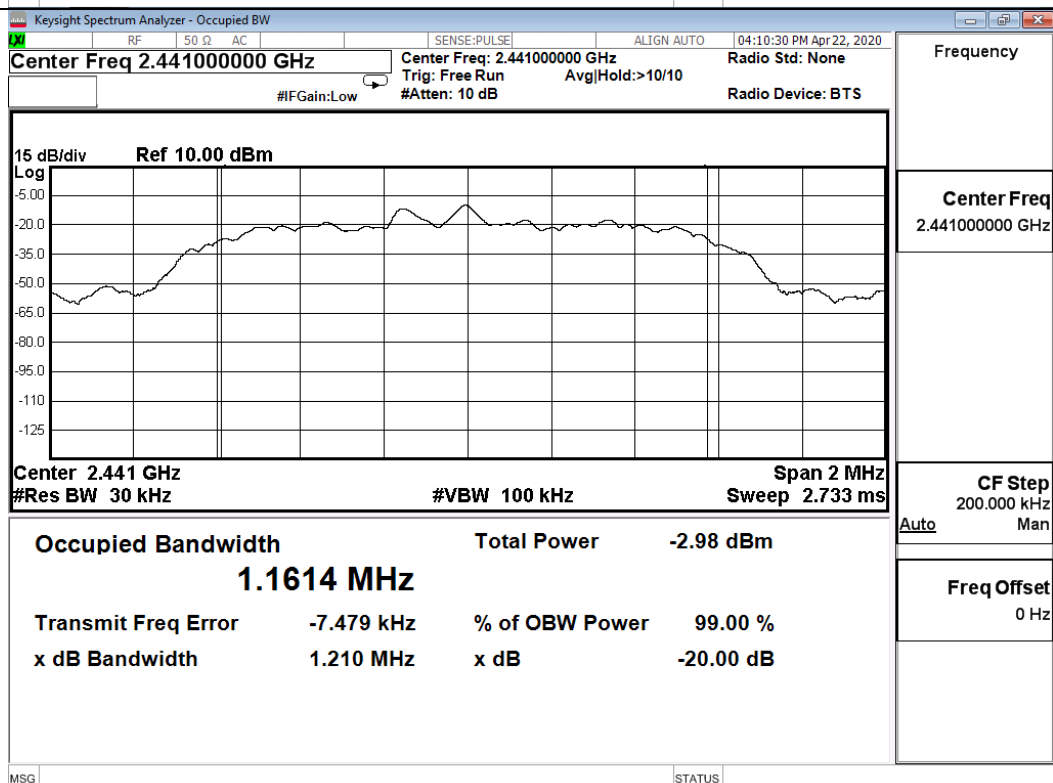


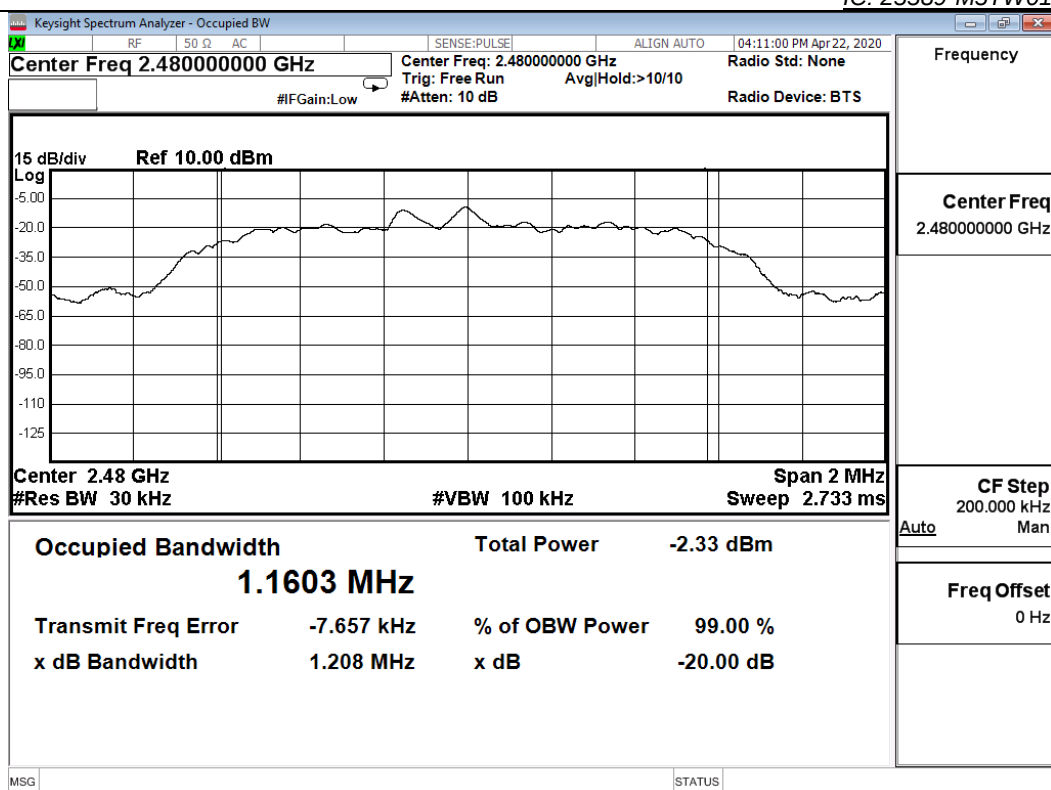
GFSK/MCH



GFSK/HCH

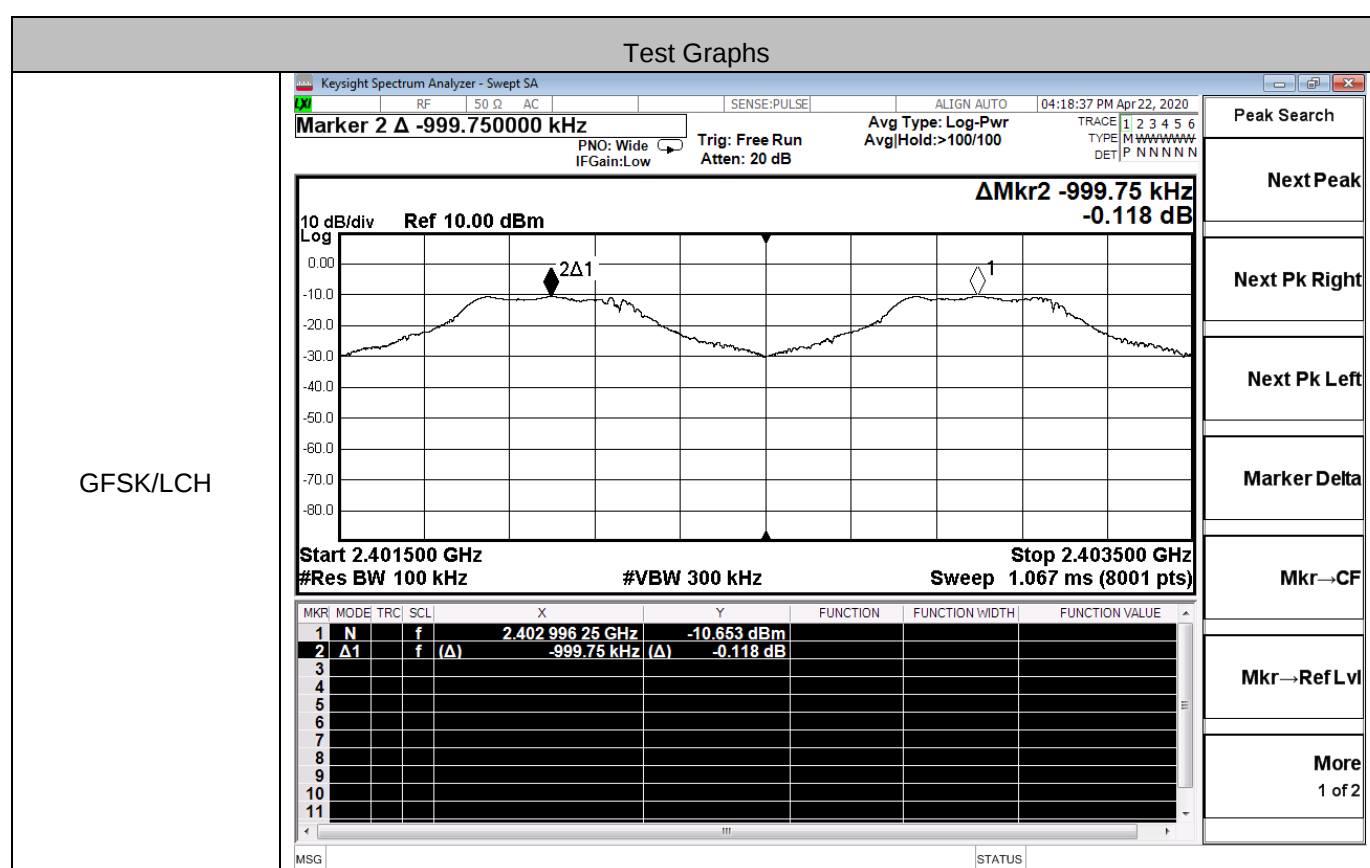


π /4DQPSK/LCH π /4DQPSK/MCH

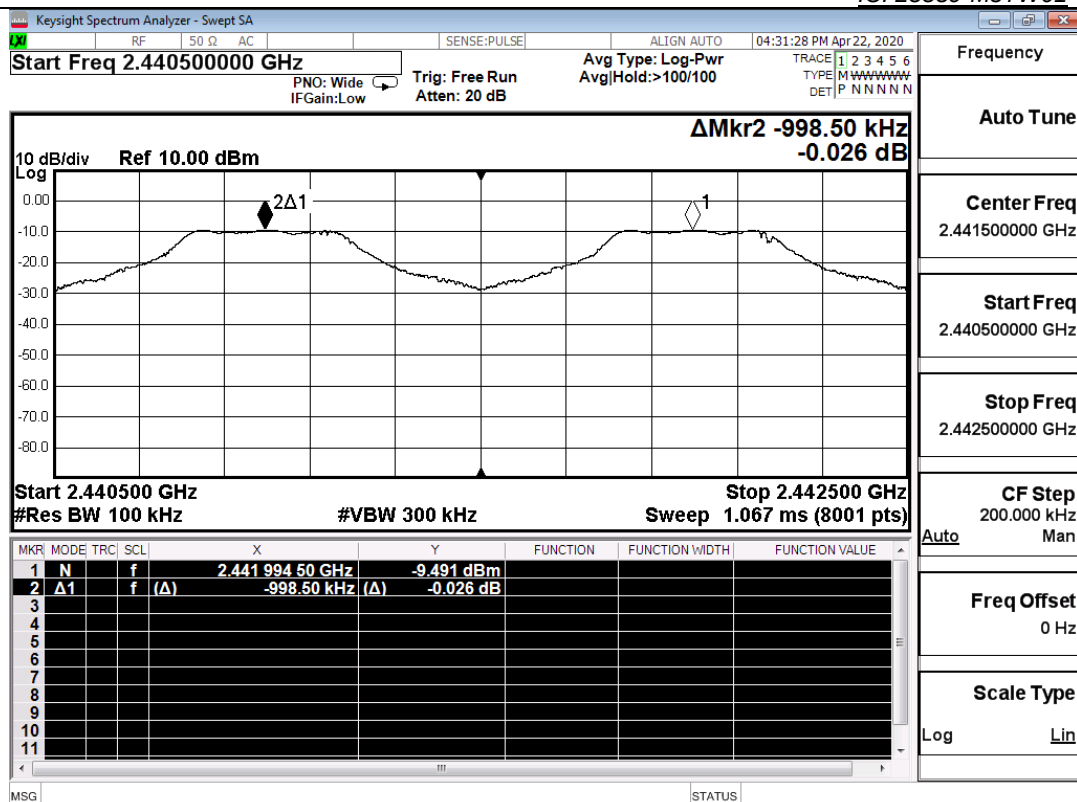
$\pi/4$ DQPSK/HCH

A.3 Carrier Frequency Separation

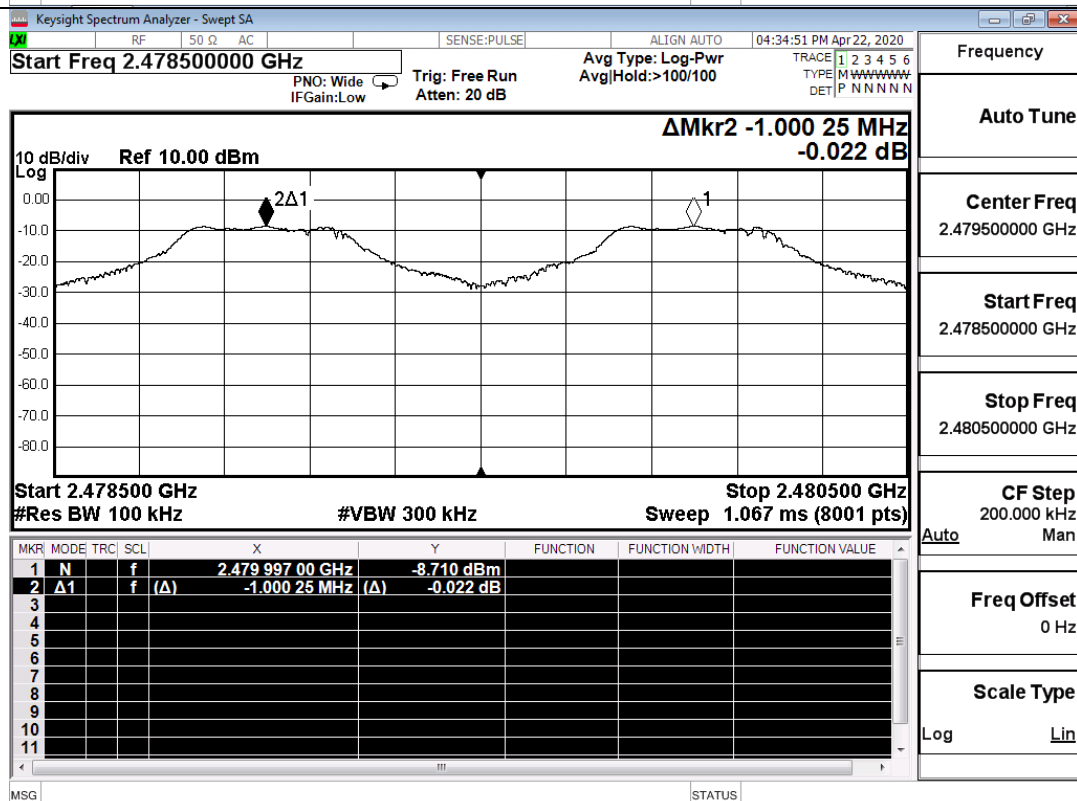
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.99975	0.518	PASS
	MCH	0.99850	0.518	PASS
	HCH	1.00025	0.519	PASS
π /4DQPSK	LCH	1.00125	0.819	PASS
	MCH	0.99675	0.807	PASS
	HCH	1.00025	0.805	PASS

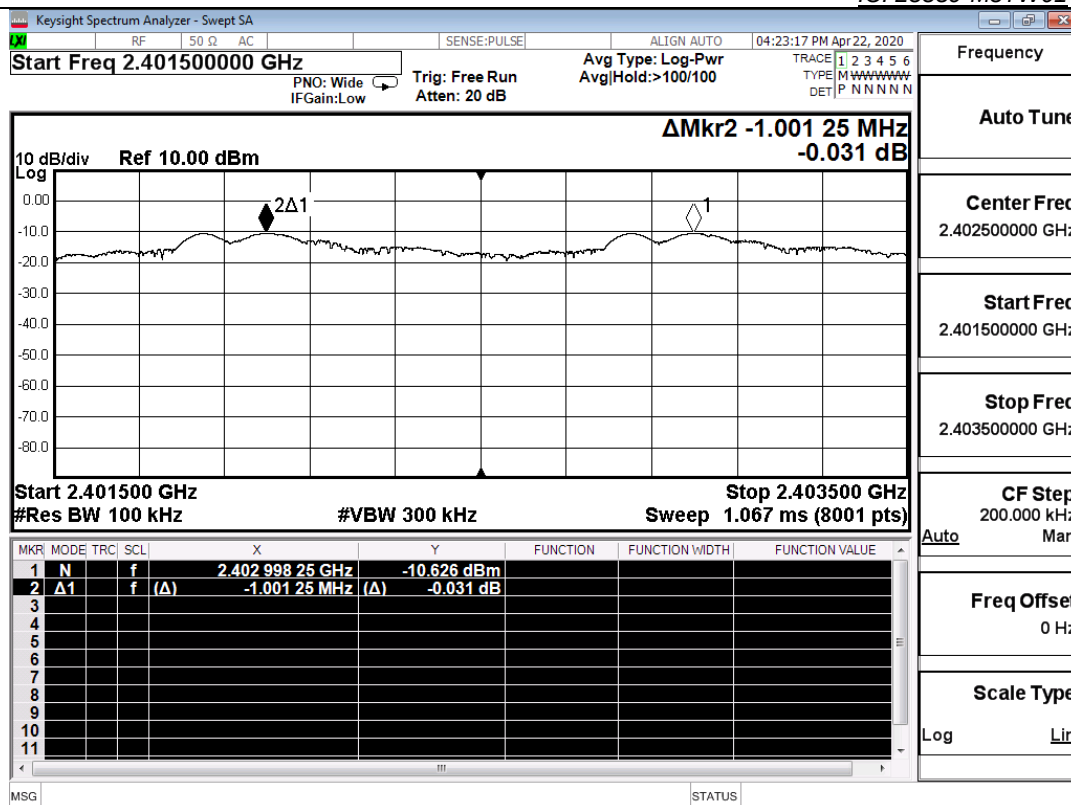
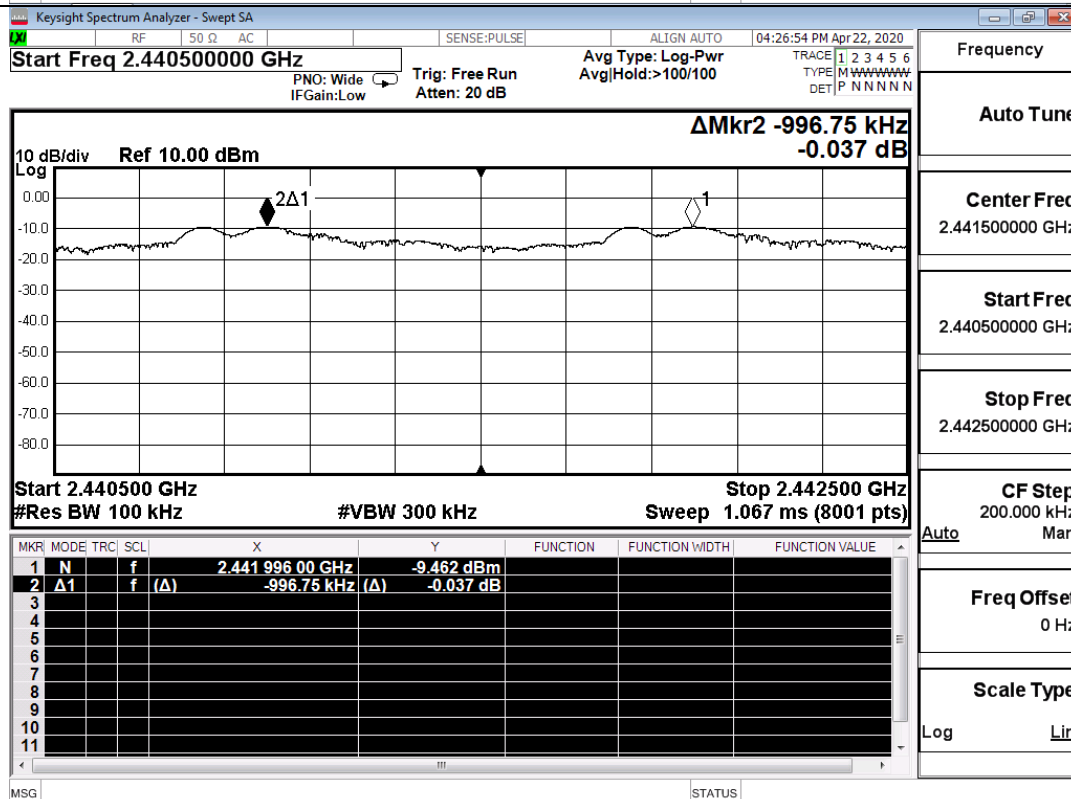


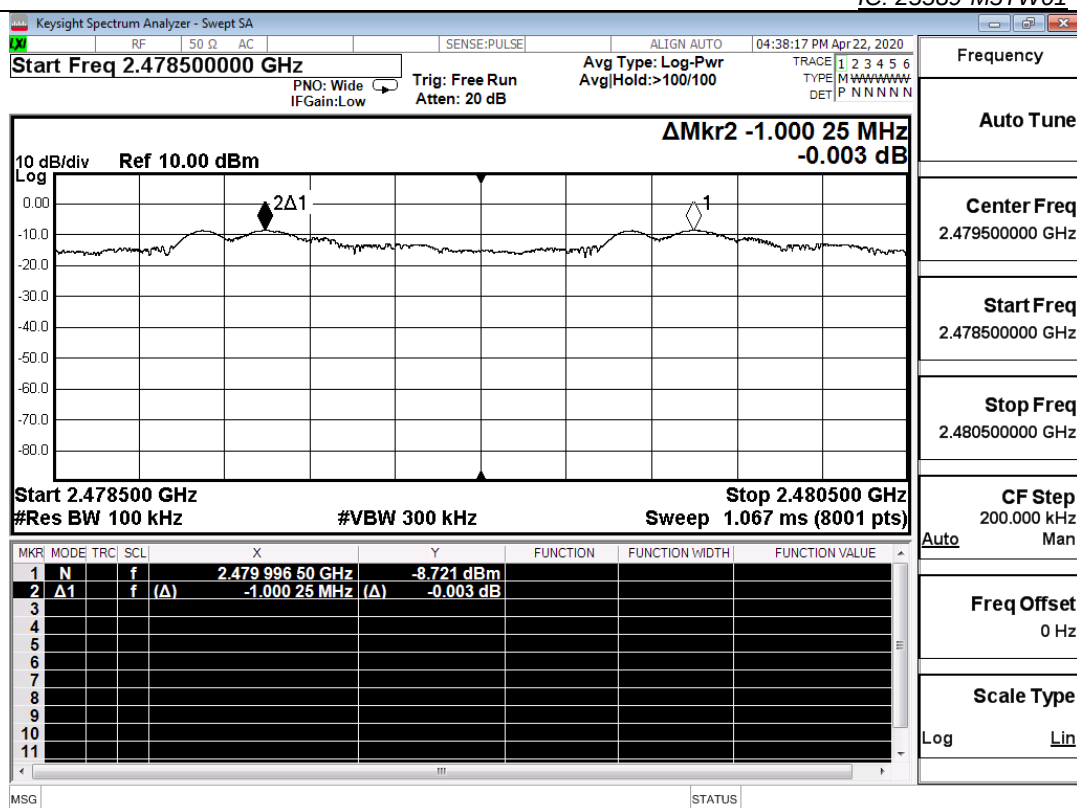
GFSK/MCH



GFSK/HCH

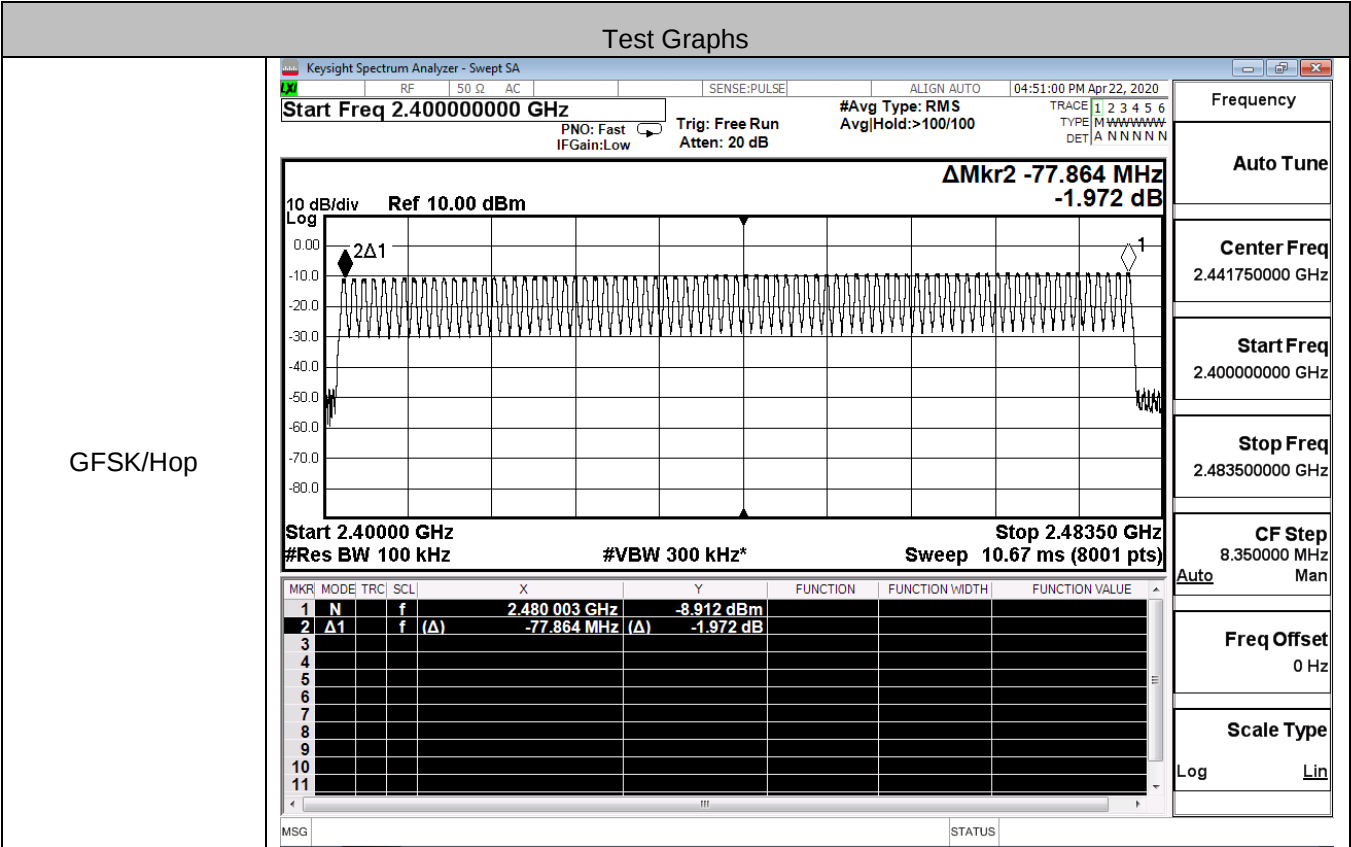


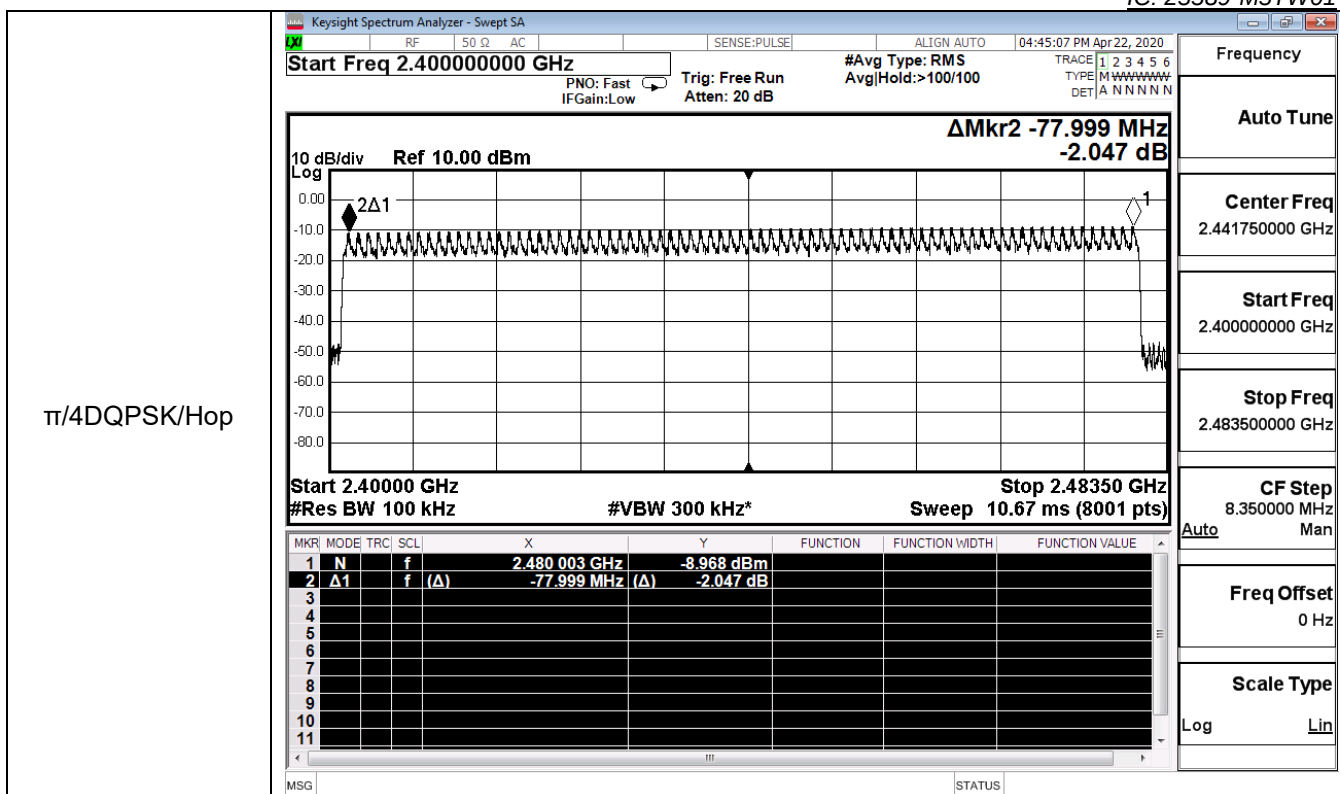
$\pi/4$ DQPSK/LCH $\pi/4$ DQPSK/MCH

$\pi/4$ DQPSK/HCH

A.4 Hopping Channel Number

Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	>=15	PASS
π /4DQPSK	Hop	79	>=15	PASS



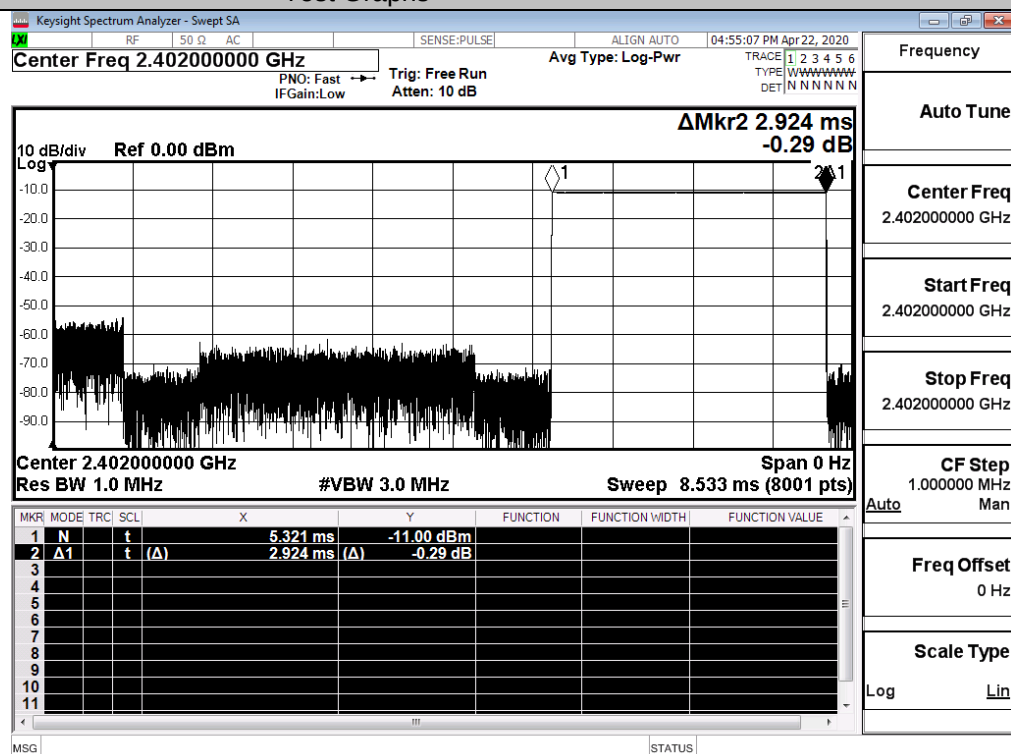


A.5 Dwell Time

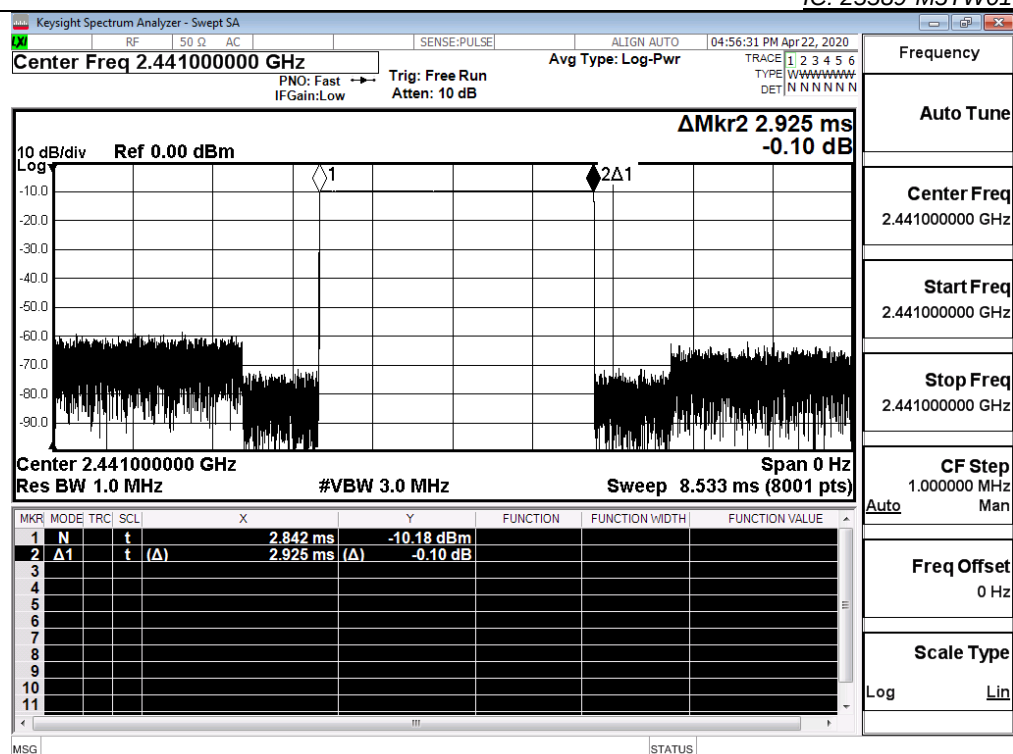
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	2.924	106.7	0.312	0.4	PASS
	DH5	MCH	2.925	106.7	0.312	0.4	PASS
	DH5	HCH	2.925	106.7	0.312	0.4	PASS
$\pi/4$ DQPSK	2DH5	LCH	2.921	106.7	0.312	0.4	PASS
	2DH5	MCH	2.931	106.7	0.313	0.4	PASS
	2DH5	HCH	2.929	106.7	0.313	0.4	PASS

Test Graphs

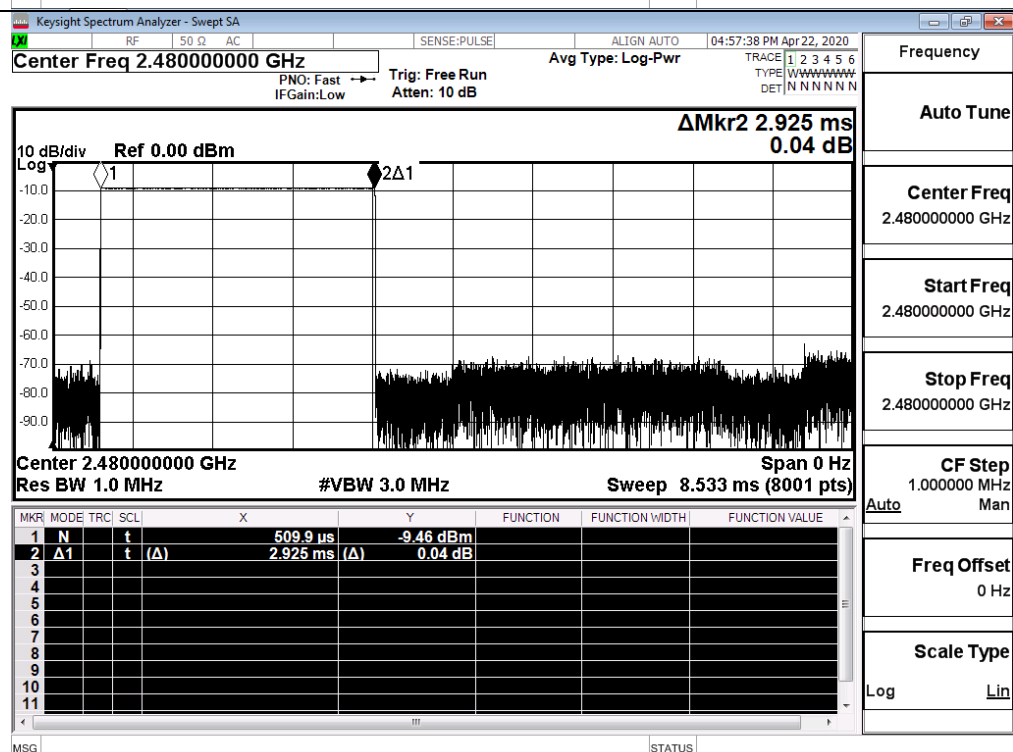
GFSK_DH5/LCH



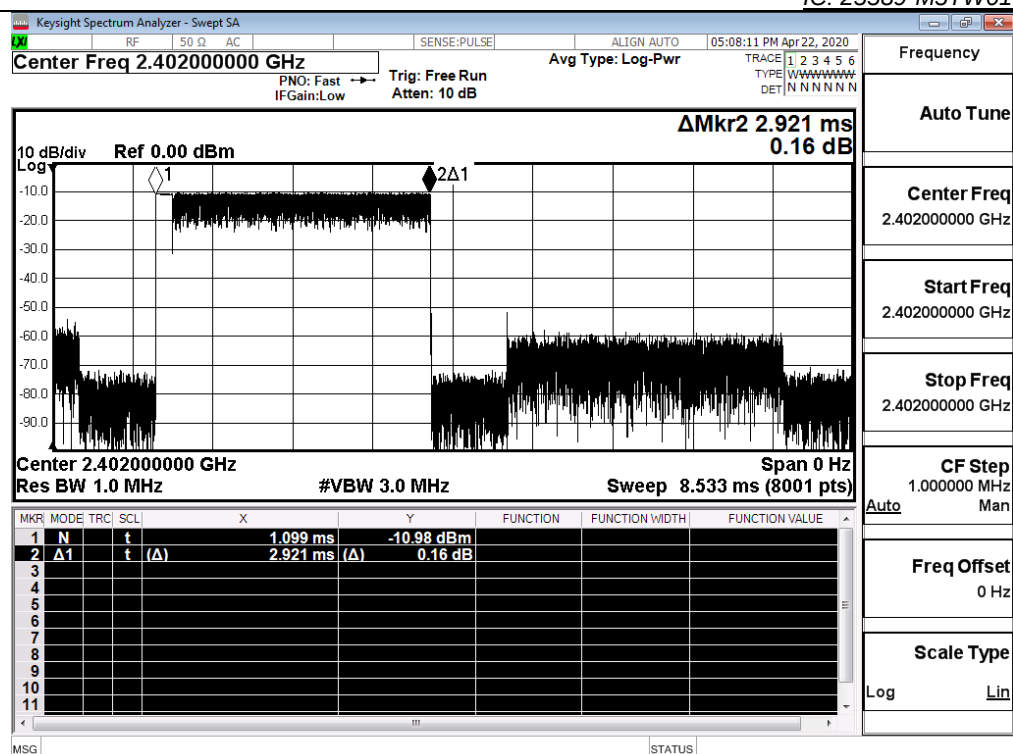
GFSK_DH5/MCH



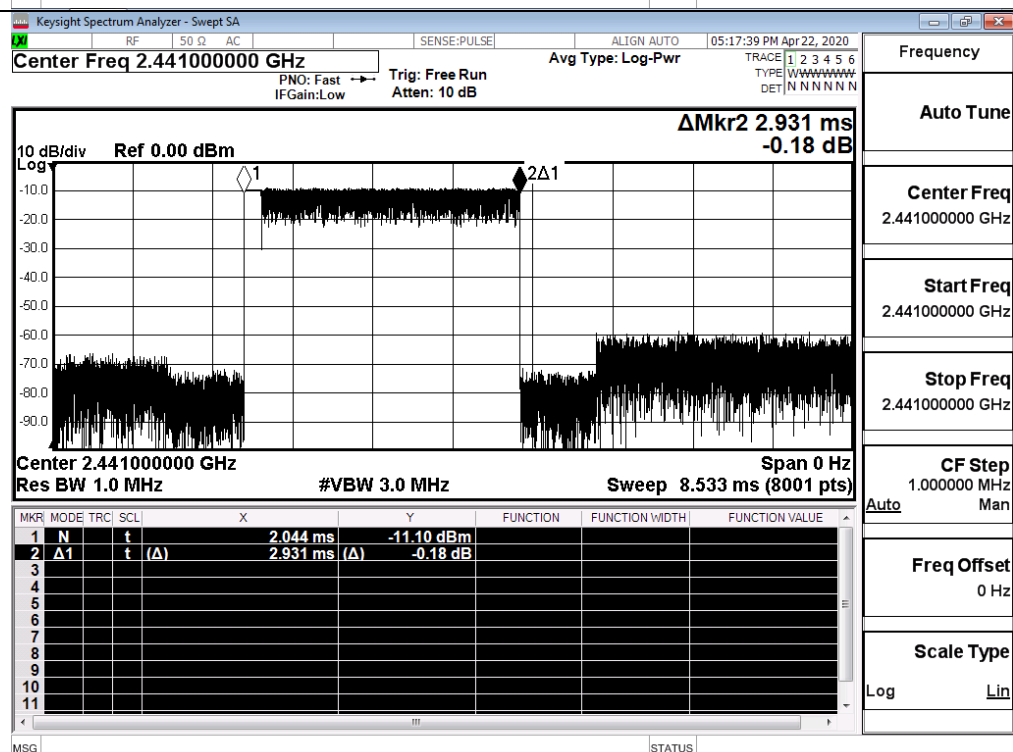
GFSK_DH5/HCH



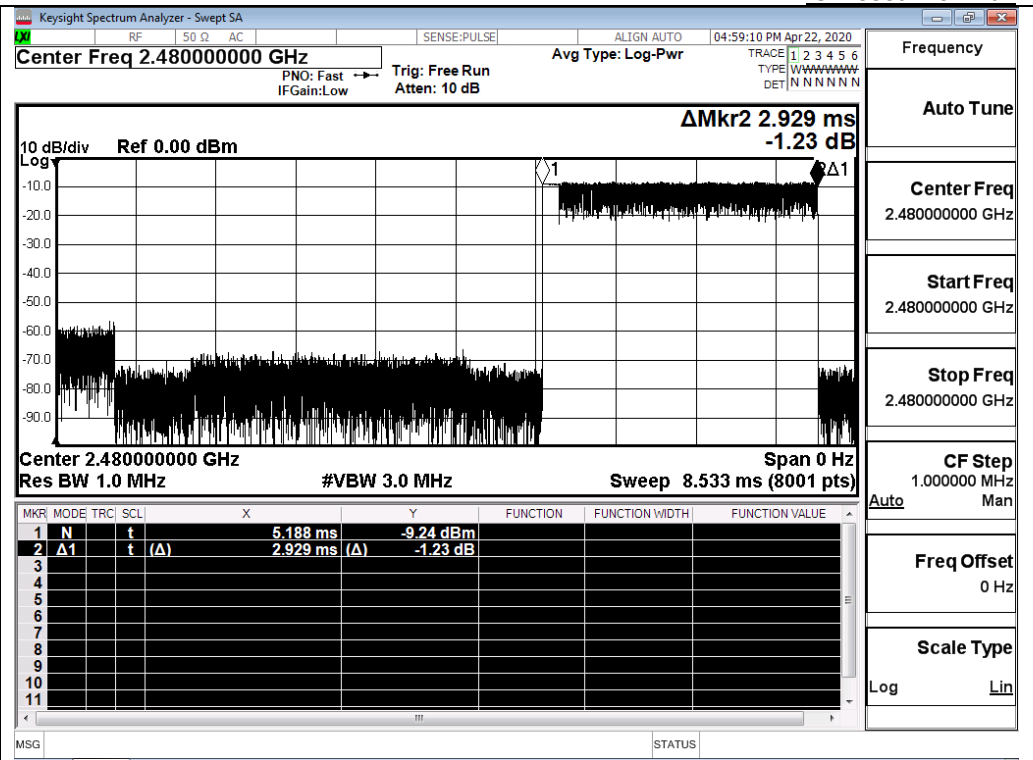
$\pi/4$ DQPSK
_2DH5/LCH



$\pi/4$ DQPSK
_2DH5/MCH



π /4DQPSK
_2DH5/HCH

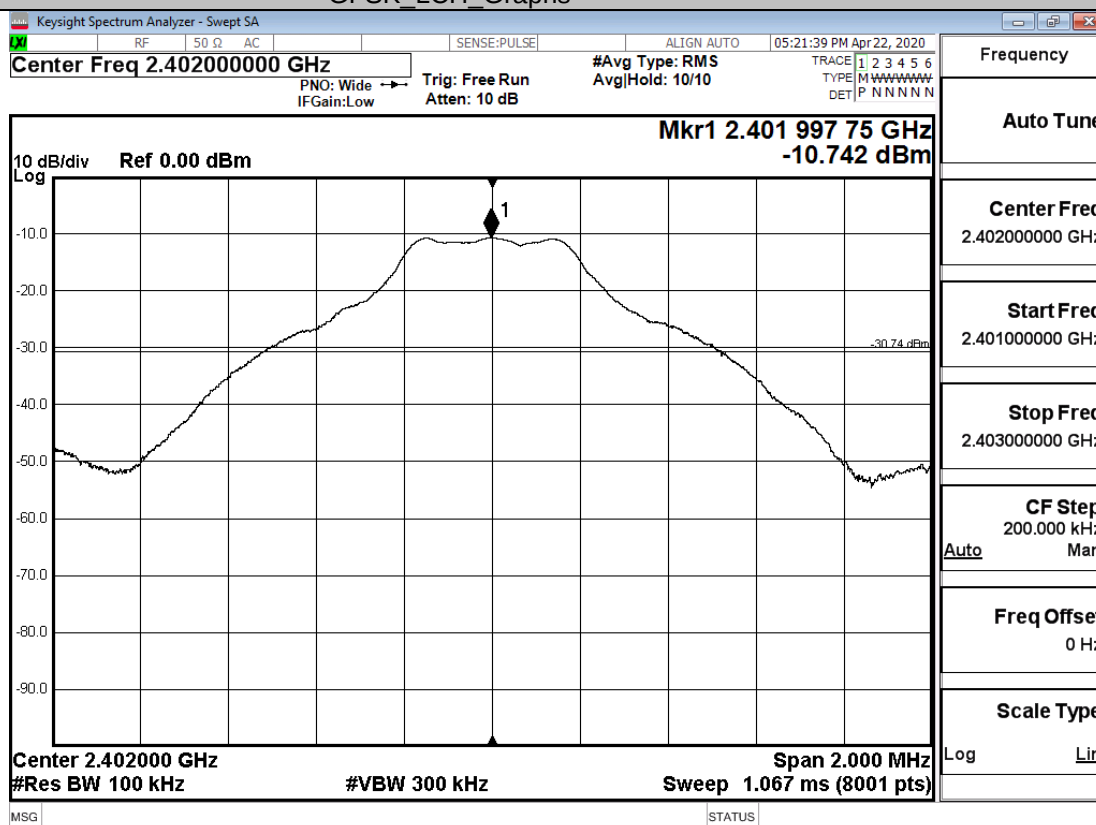


A.6 RF Conducted Spurious Emissions

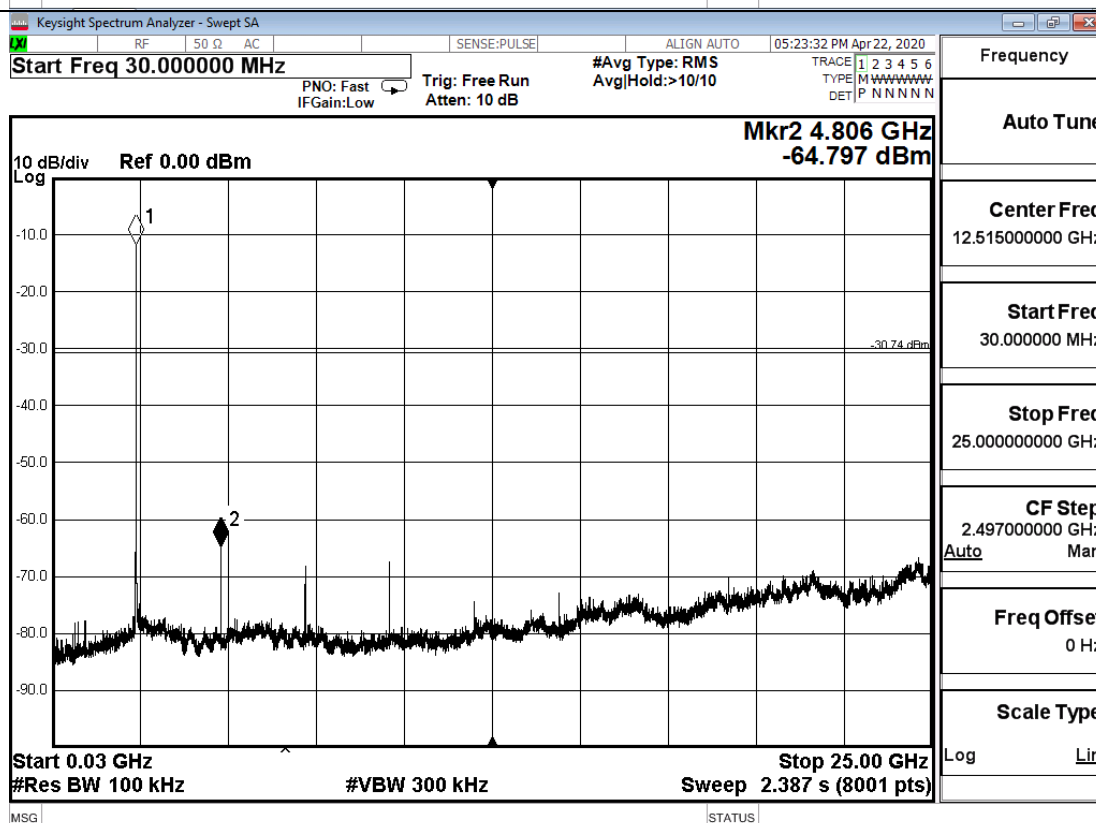
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-10.742	-64.797	-30.74	PASS
	MCH	-9.656	-64.504	-29.66	PASS
	HCH	-8.873	-61.760	-28.87	PASS
$\pi/4$ DQPSK	LCH	-10.740	-66.042	-30.74	PASS
	MCH	-9.665	-64.086	-29.67	PASS
	HCH	-8.885	-61.664	-28.89	PASS

GFSK LCH Graphs

Pref

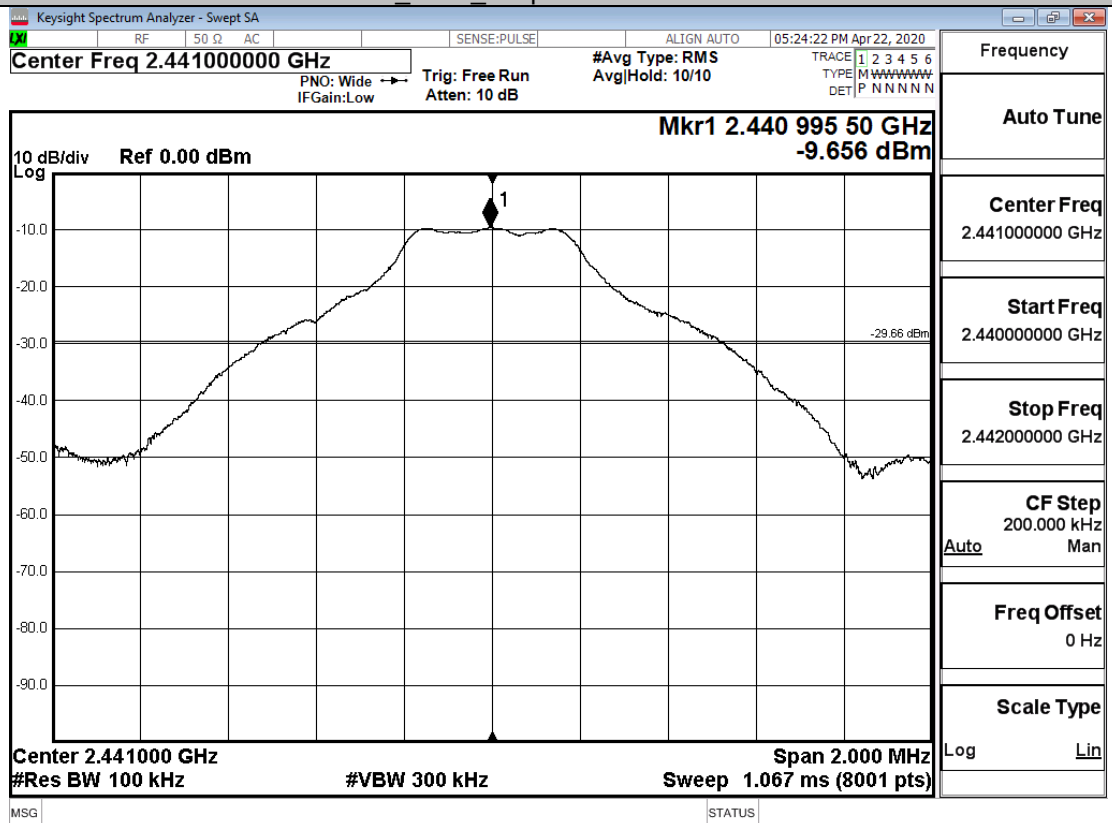


Puw

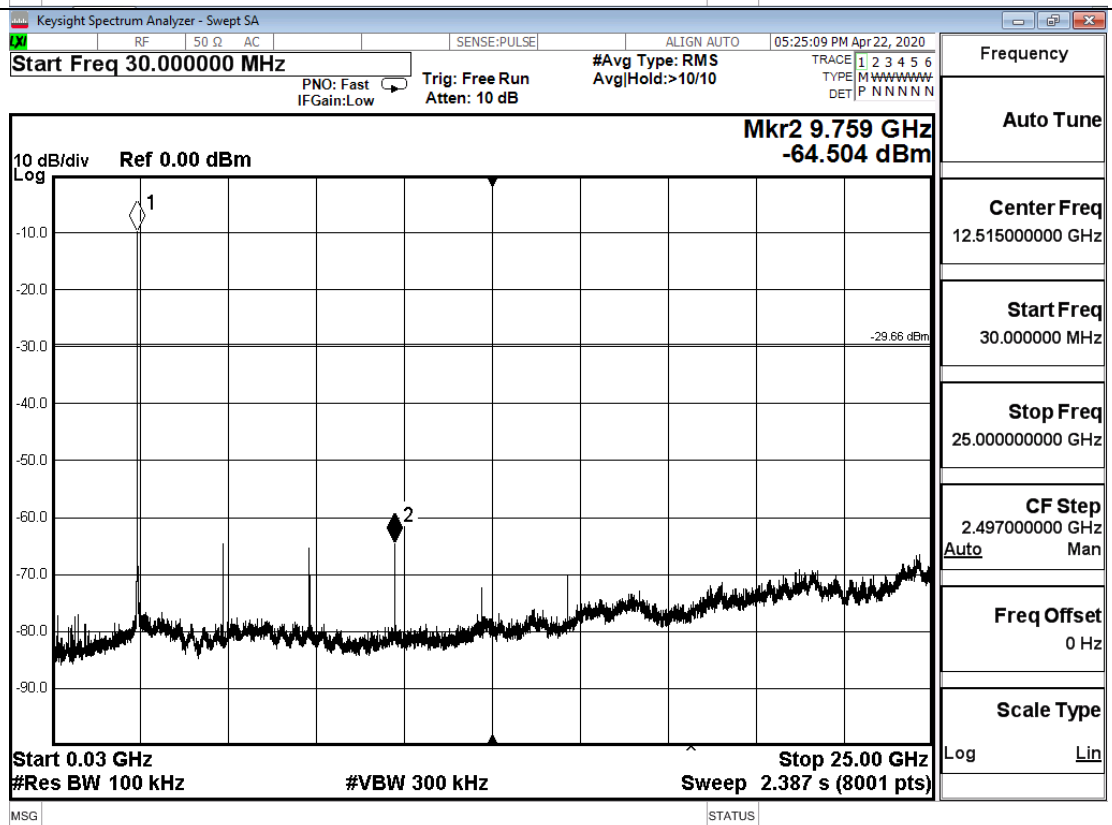


GFSK_MCH_Graphs

Pref

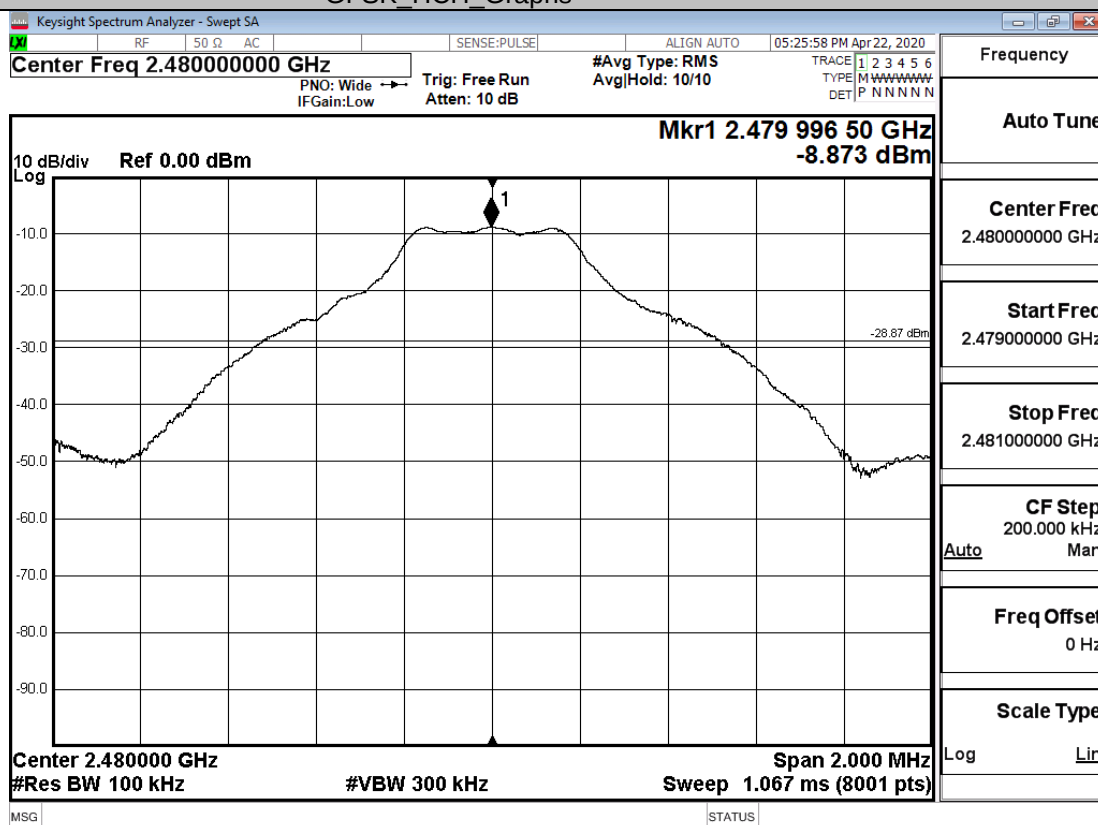


Puw

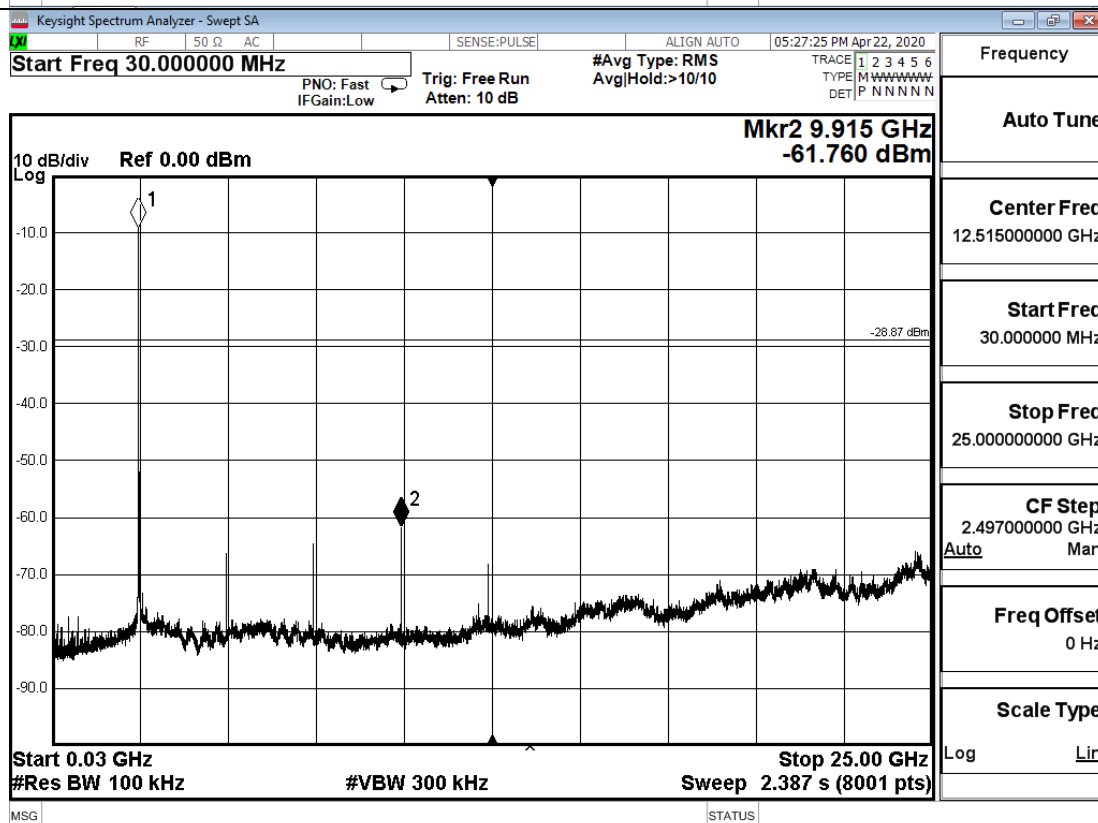


GFSK_HCH_Graphs

Pref

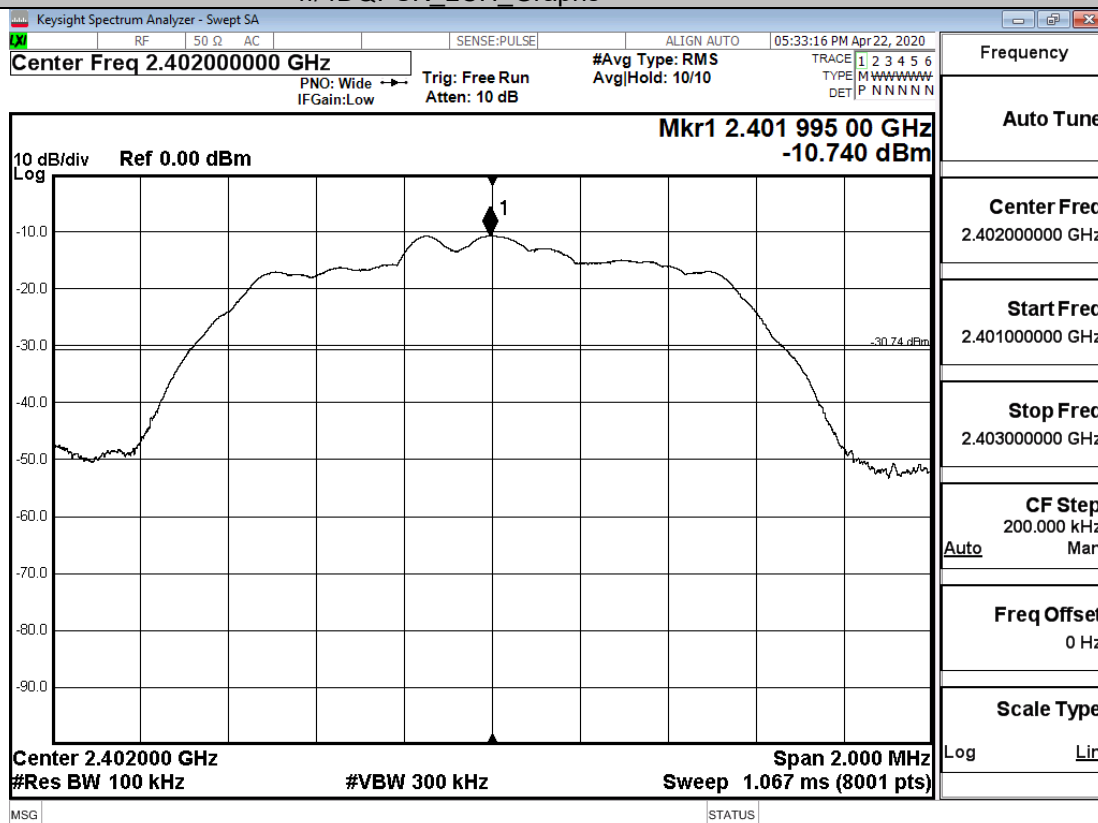


Puw

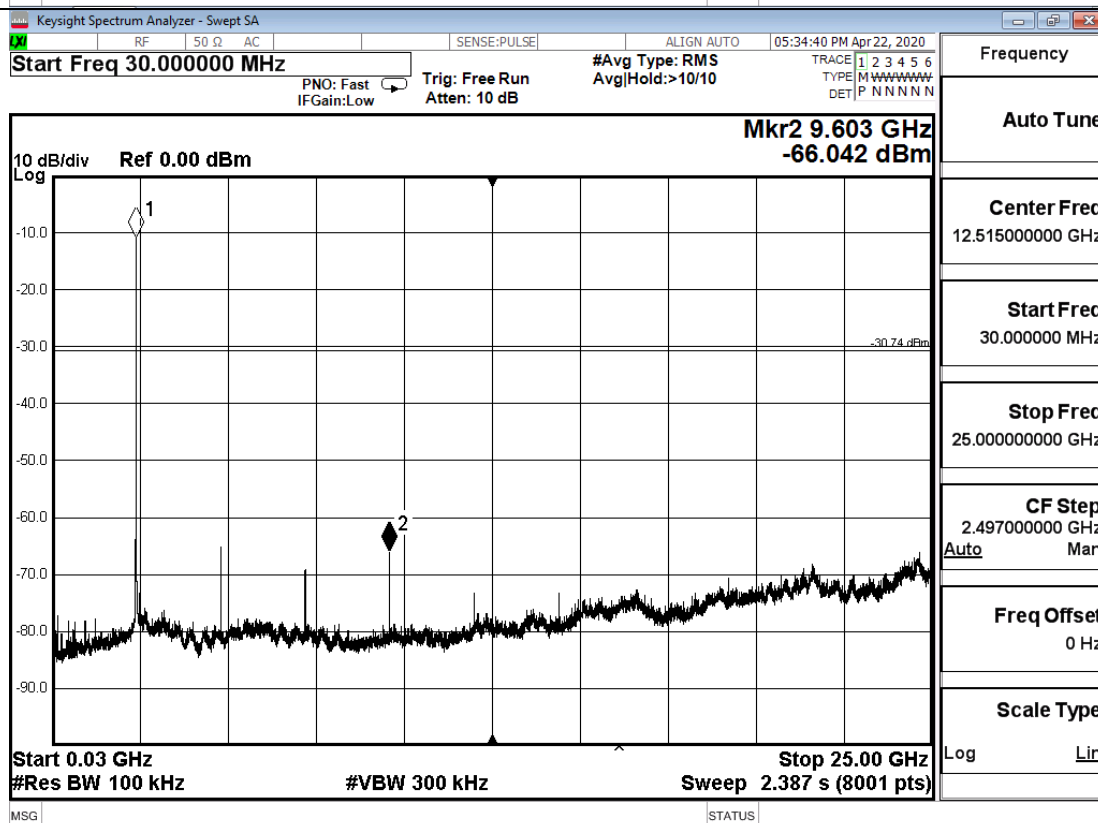


$\pi/4$ DQPSK LCH_Graphs

Pref

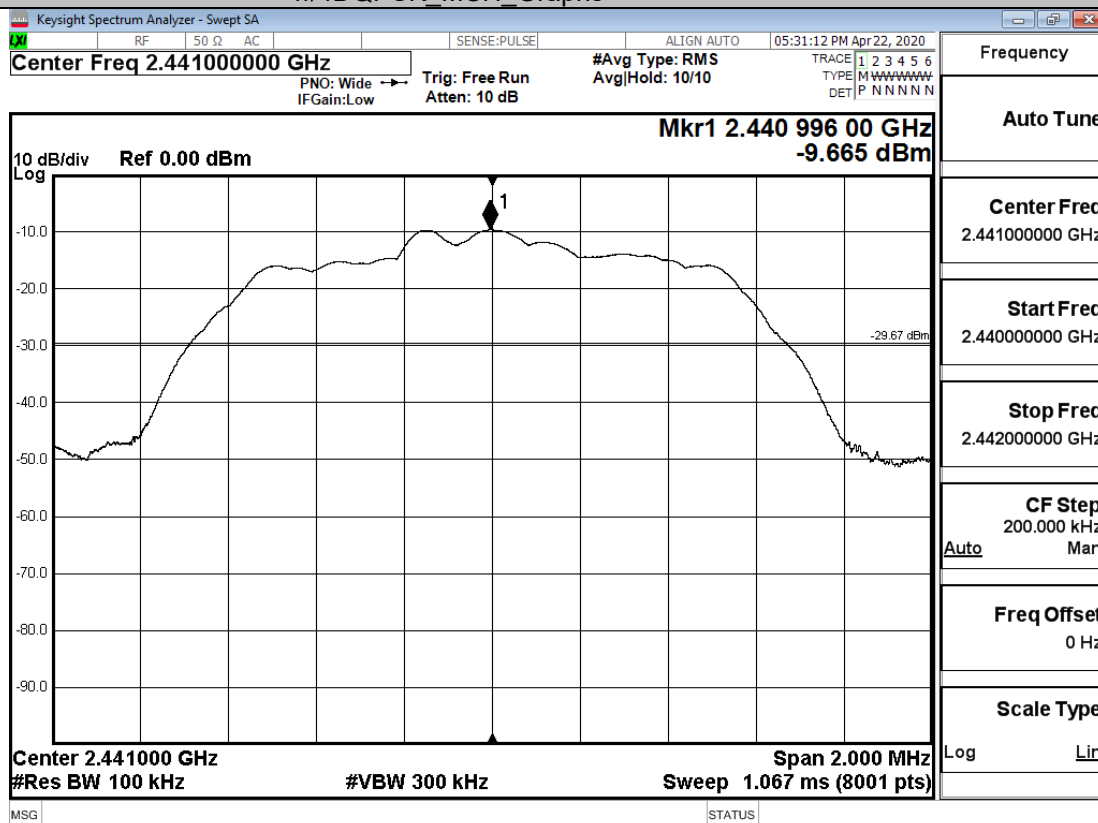


Puw

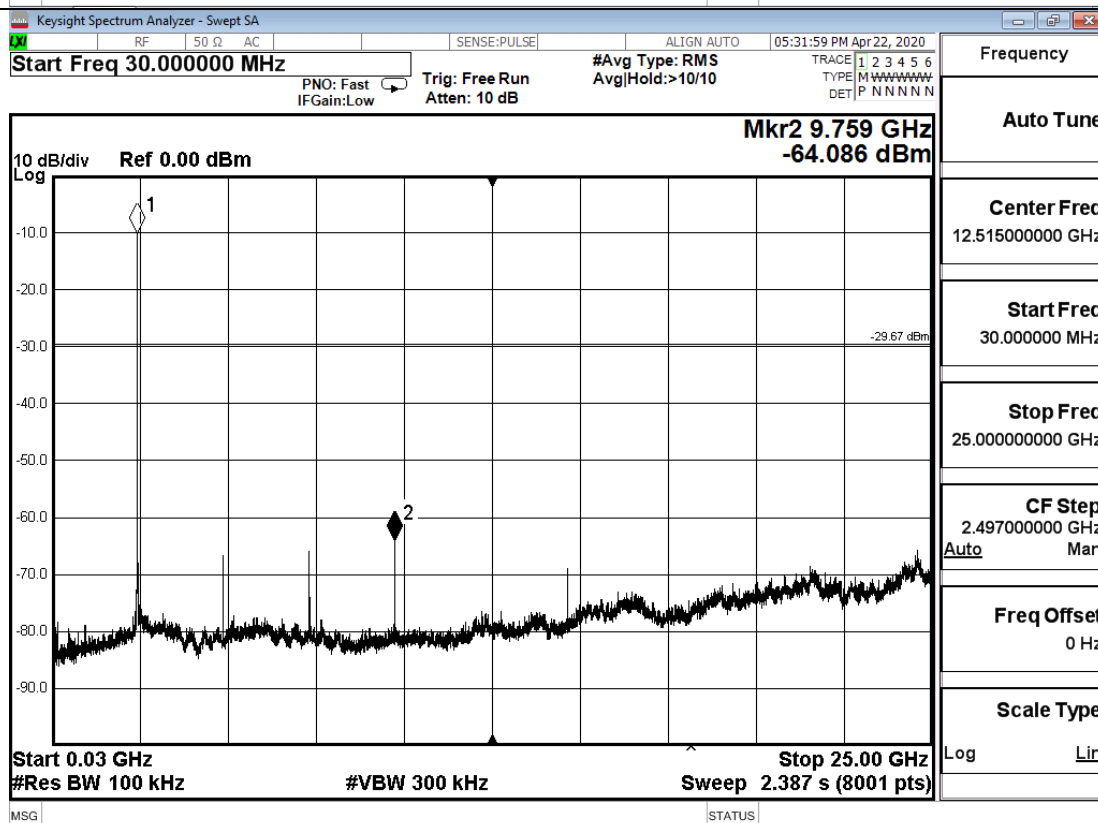


$\pi/4$ DQPSK_MCH_Graphs

Pref

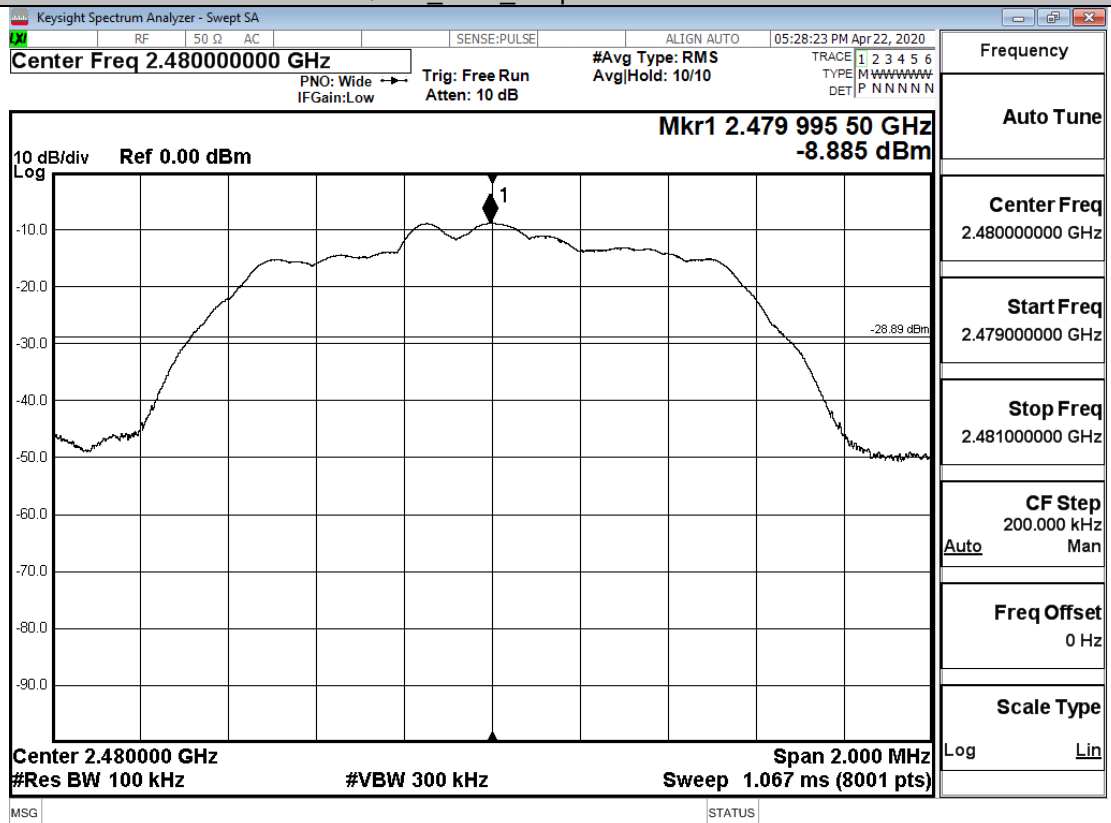


Puw

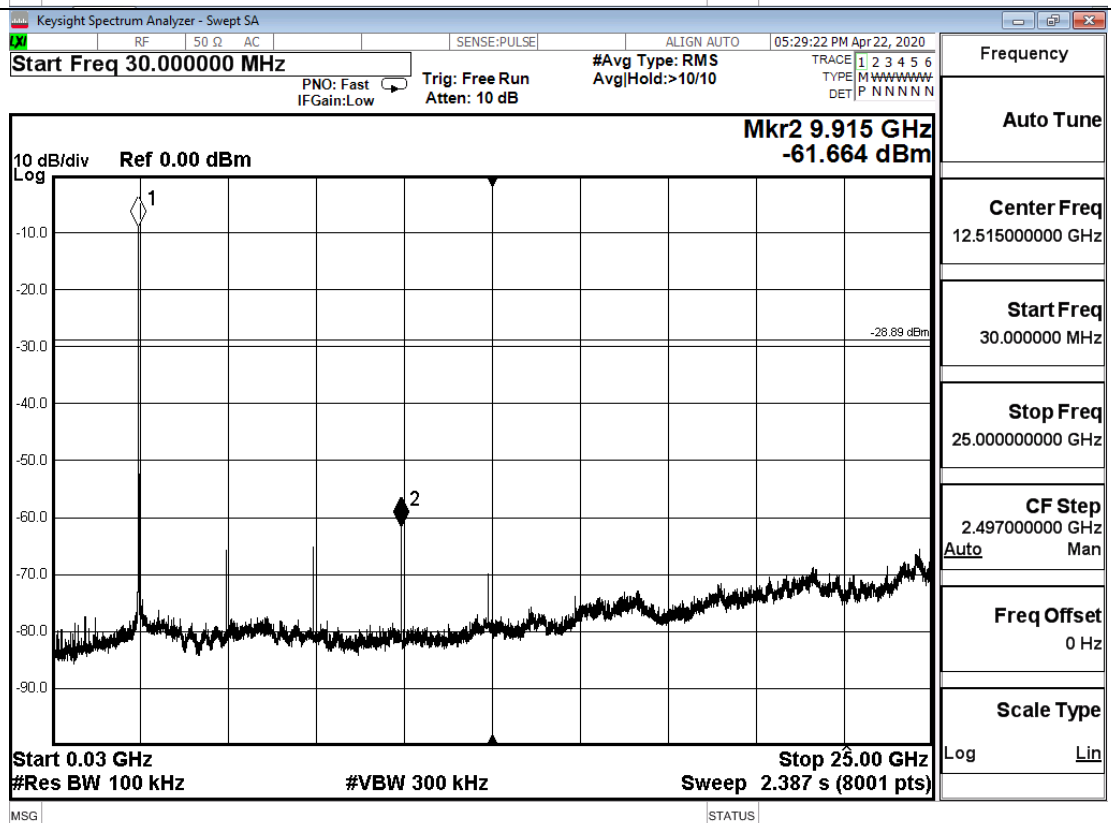


$\pi/4$ DQPSK_HCH_Graphs

Pref



Puw

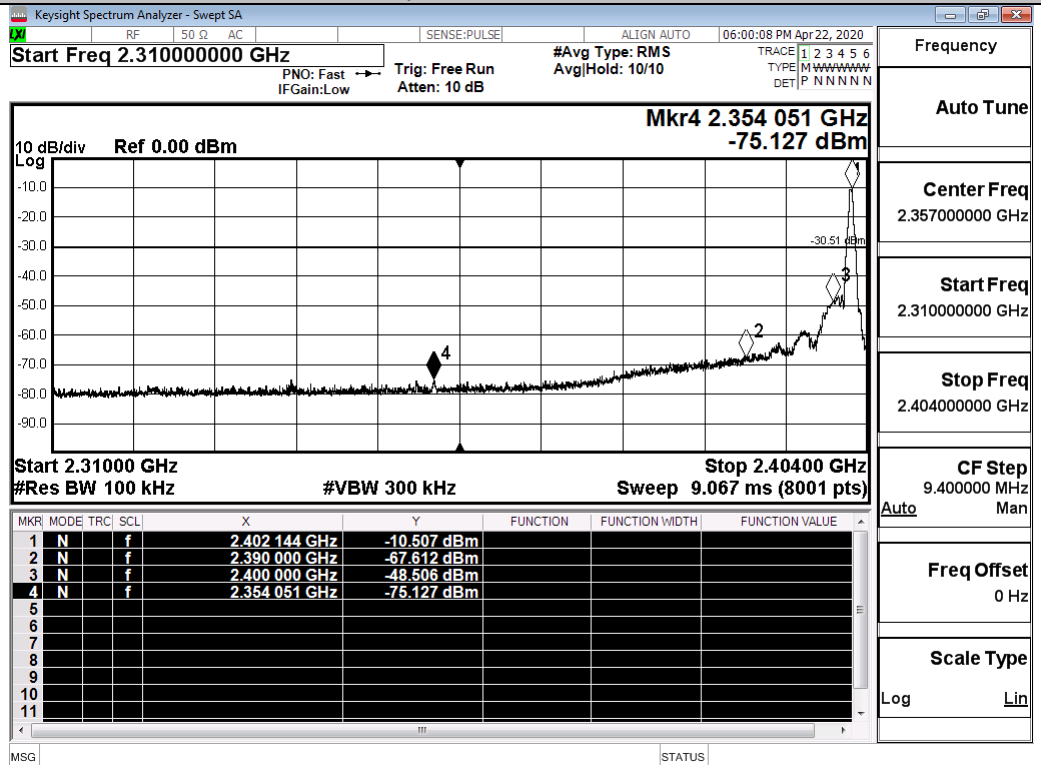


A.7 Band-edge for RF Conducted Emissions

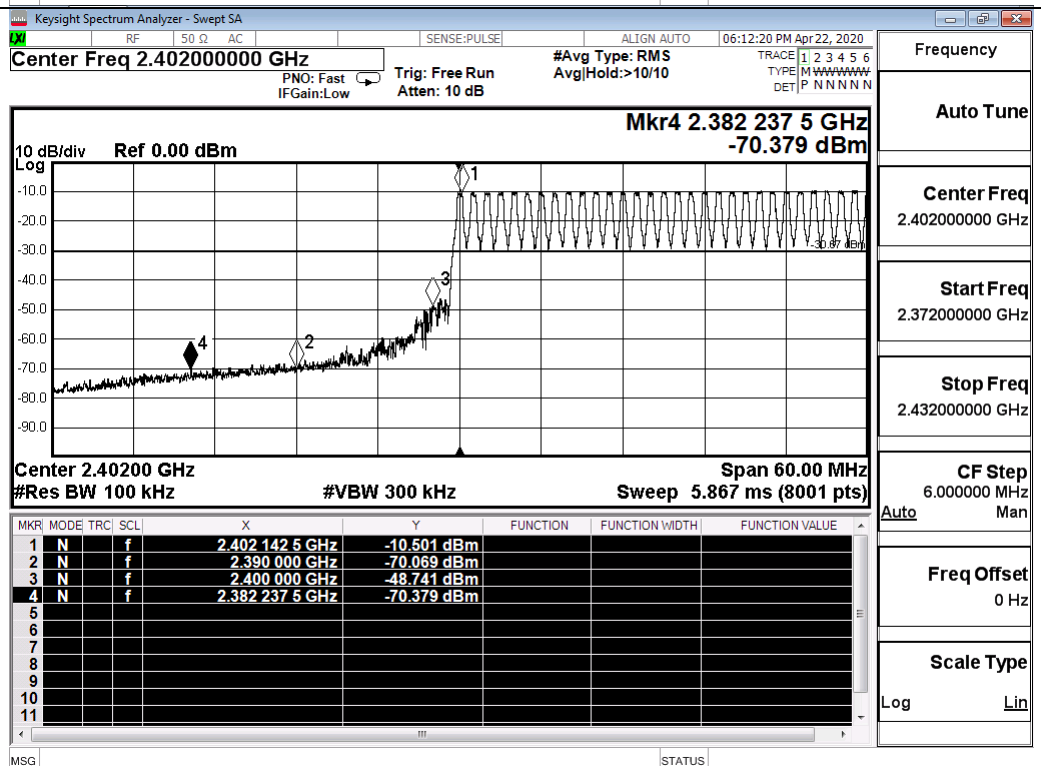
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	-10.507	Off	-48.506	-30.51	PASS
			-10.501	On	-48.741	-30.50	PASS
	HCH	2480	-8.714	Off	-50.489	-28.71	PASS
			-8.734	On	-51.940	-28.73	PASS
π /4DQPSK	LCH	2402	-10.697	Off	-48.704	-30.70	PASS
			-10.666	On	-48.684	-30.67	PASS
	HCH	2480	-8.869	Off	-46.635	-28.87	PASS
			-13.621	On	-54.787	-33.62	PASS

Test Graphs

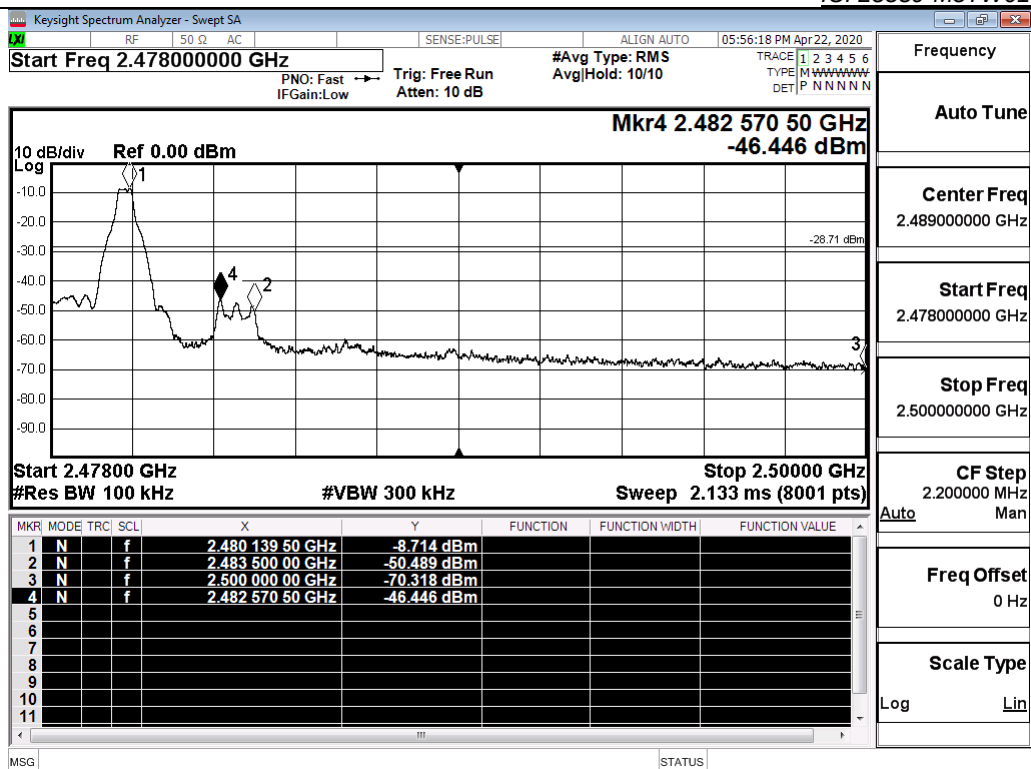
GFSK/LCH/No Hop



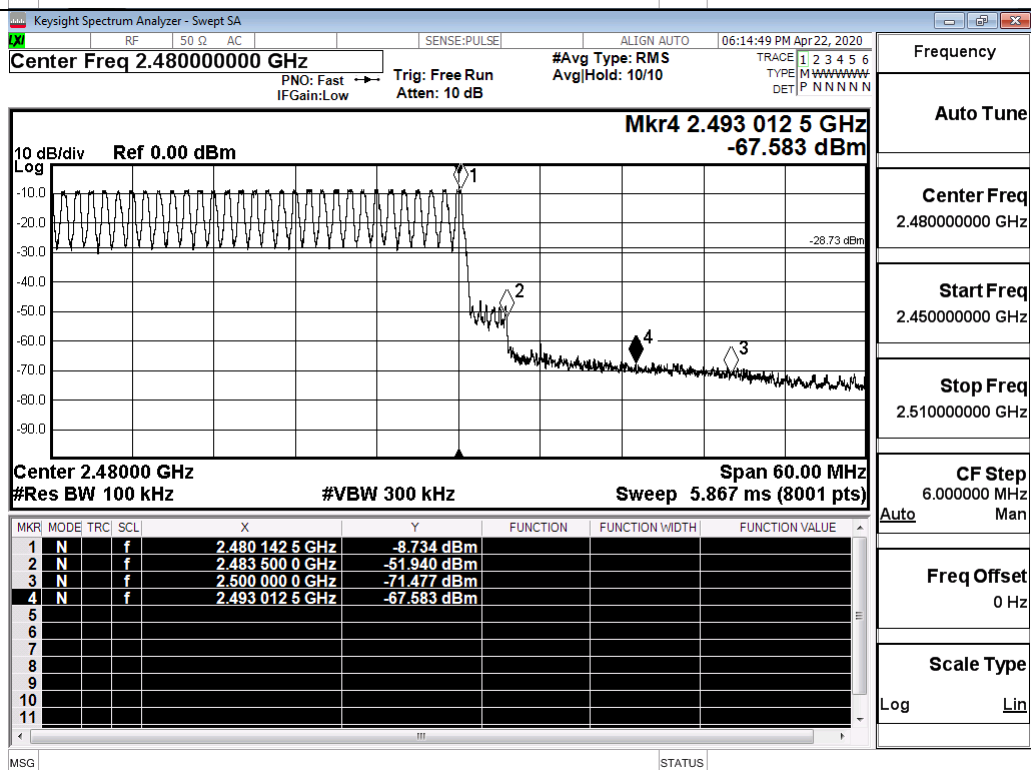
GFSK/LCH/Hop



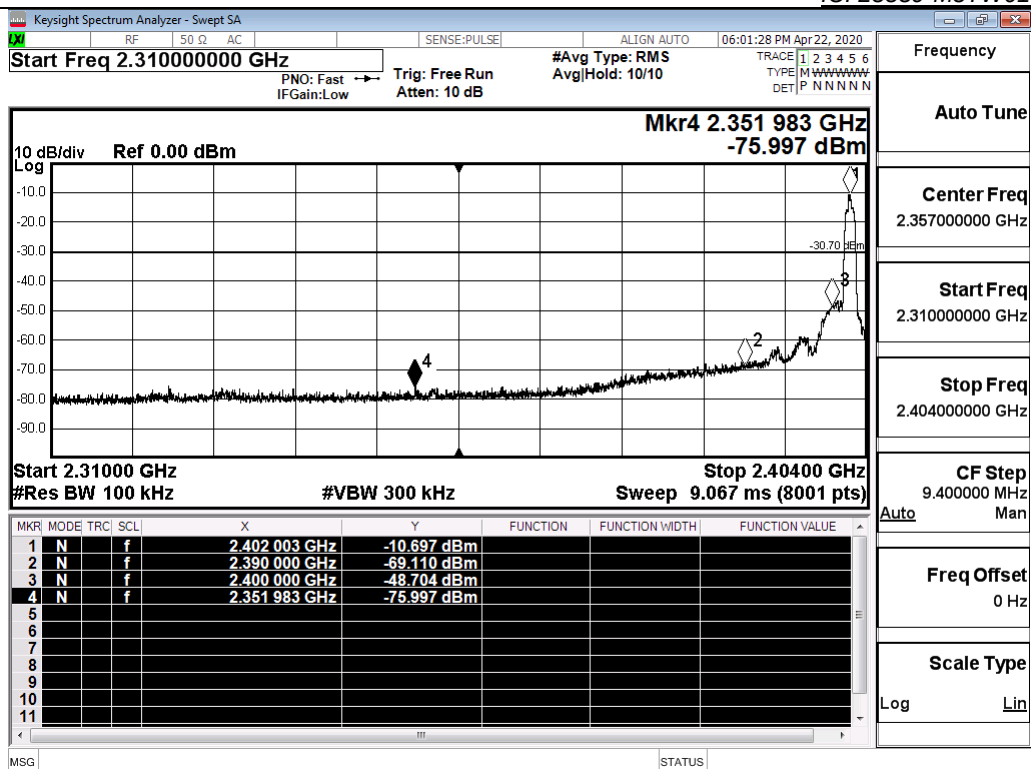
GFSK/HCH/No Hop



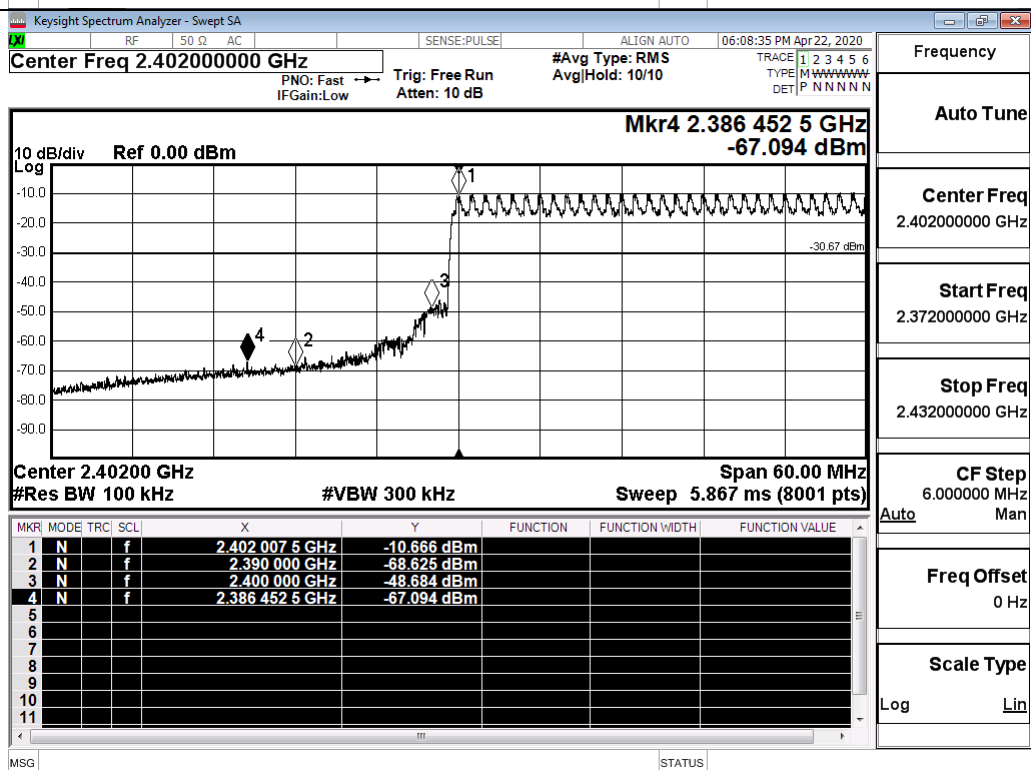
GFSK/HCH/Hop



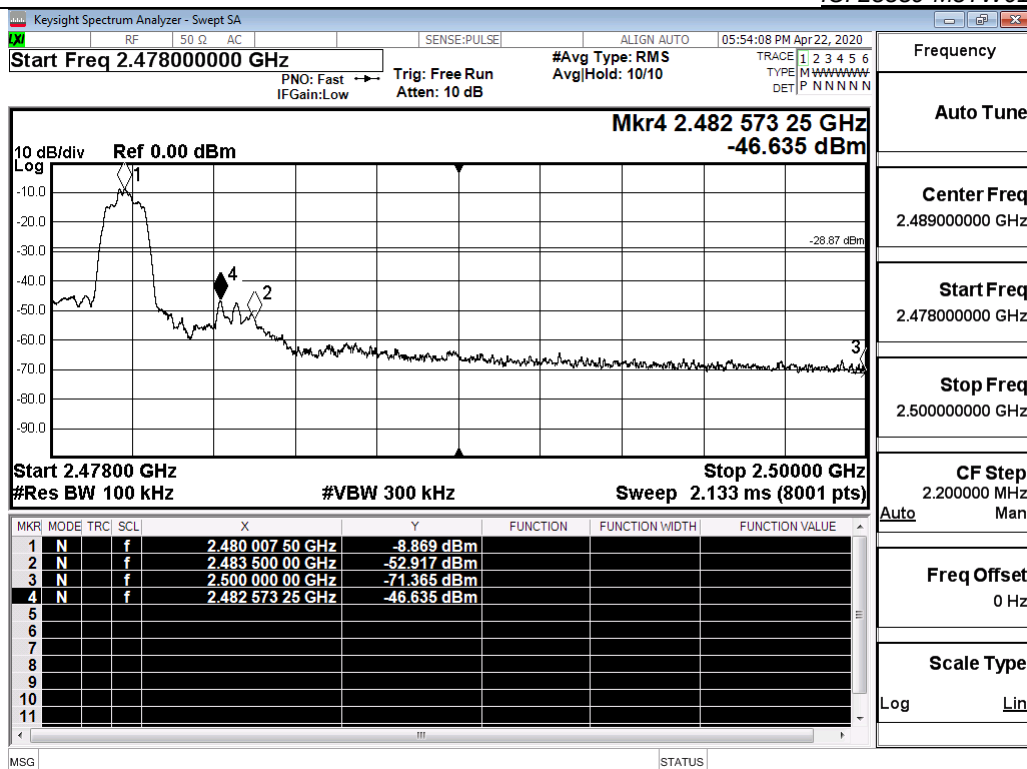
$\pi/4$ DQPSK/LCH/No
Hop



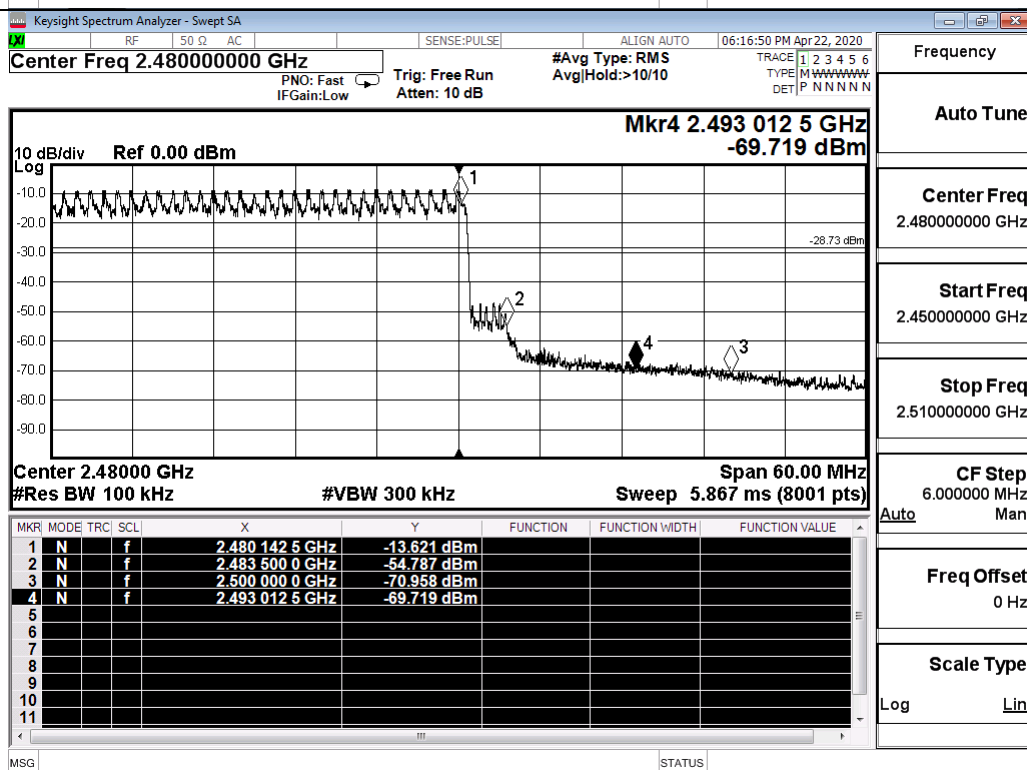
$\pi/4$ DQPSK/LCH/Hop



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



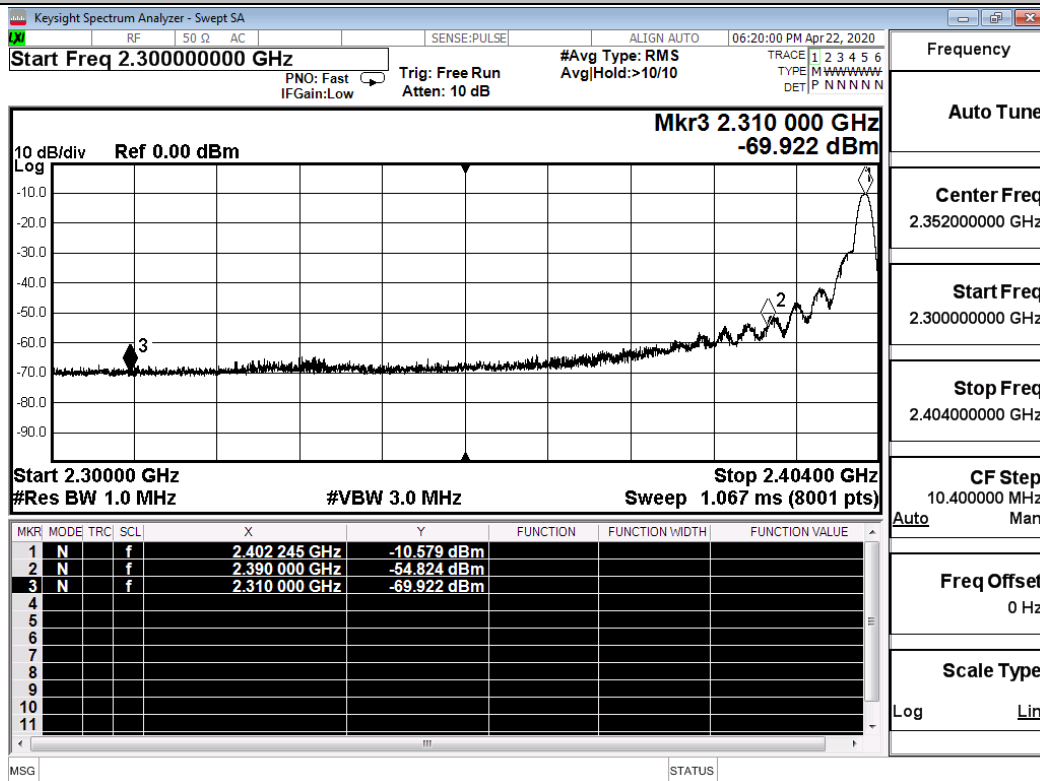
$\pi/4$ DQPSK/HCH/Hop



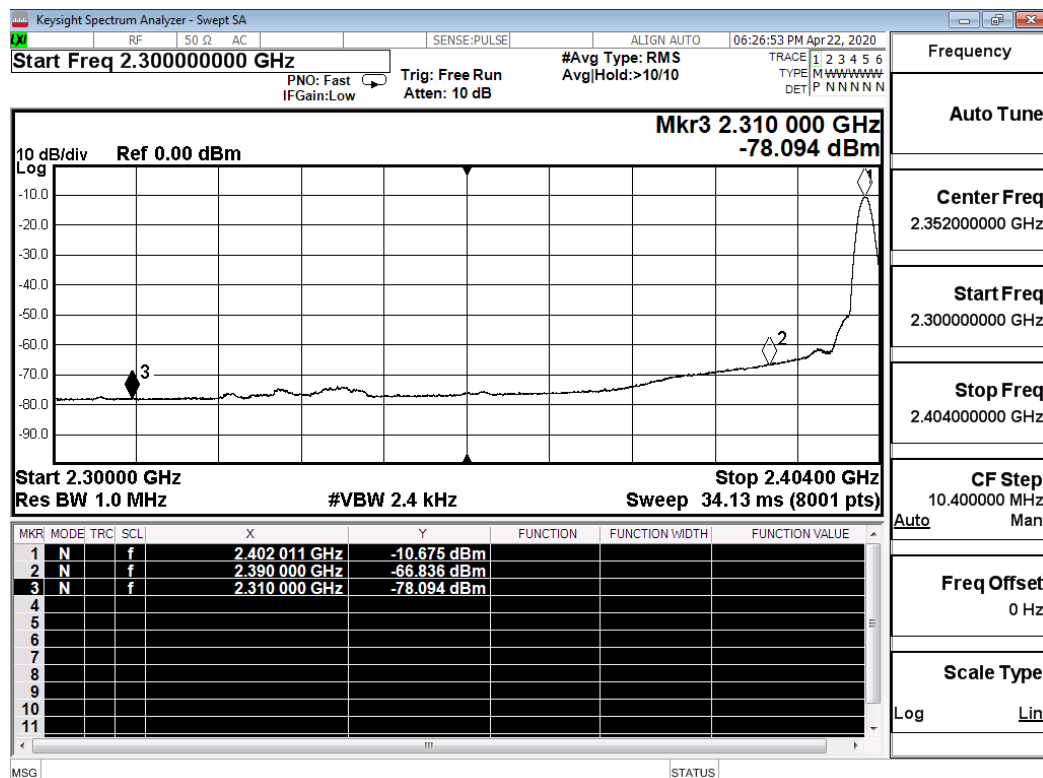
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-69.922	2.21	0	27.52	PEAK	74	PASS
	Off	2310.0	-78.094	2.21	0	19.35	AV	54	PASS
	Off	2390.0	-54.824	2.21	0	42.62	PEAK	74	PASS
	Off	2390.0	-66.836	2.21	0	30.60	AV	54	PASS
	Off	2483.5	-42.794	2.21	0	54.65	PEAK	74	PASS
	Off	2483.5	-50.065	2.21	0	47.38	AV	54	PASS
	Off	2500.0	-58.674	2.21	0	38.77	PEAK	74	PASS
	Off	2500.0	-67.804	2.21	0	29.64	AV	54	PASS
$\pi/4$ DQPSK	Off	2310.0	-68.593	2.21	0	28.85	PEAK	74	PASS
	Off	2310.0	-78.157	2.21	0	19.28	AV	54	PASS
	Off	2390.0	-52.972	2.21	0	44.47	PEAK	74	PASS
	Off	2390.0	-66.711	2.21	0	30.73	AV	54	PASS
	Off	2483.5	-42.599	2.21	0	54.84	PEAK	74	PASS
	Off	2483.5	-51.074	2.21	0	46.37	AV	54	PASS
	Off	2500.0	-58.843	2.21	0	38.60	PEAK	74	PASS
	Off	2500.0	-67.568	2.21	0	29.87	AV	54	PASS

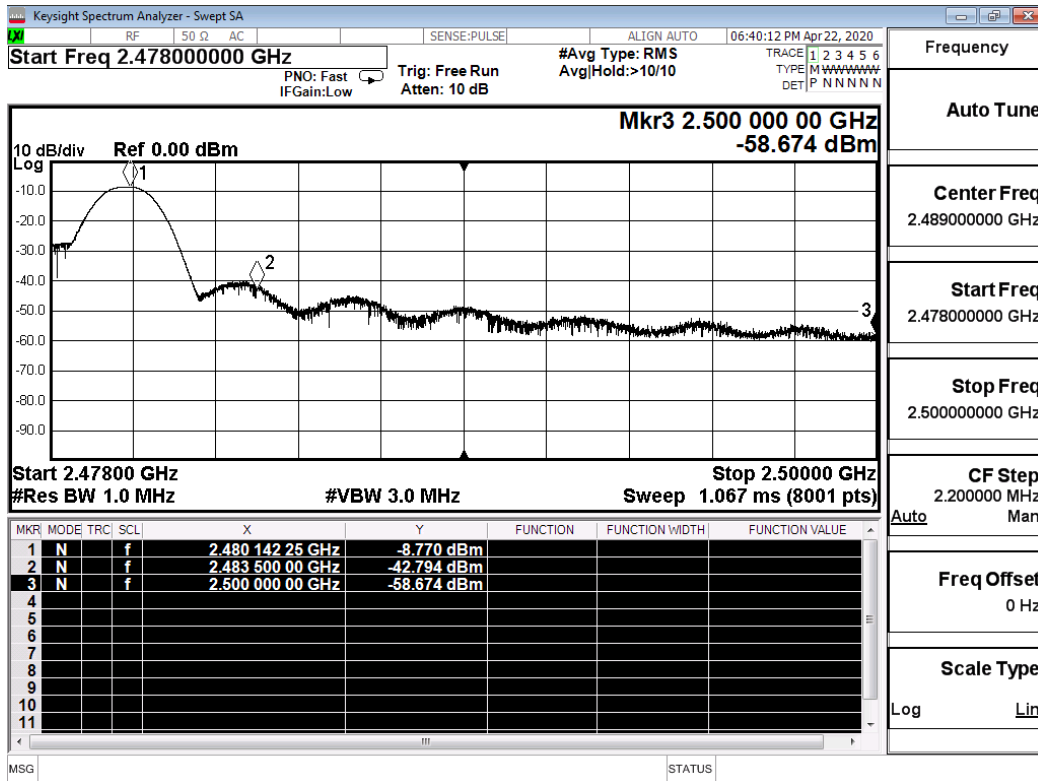
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (Low Channel)



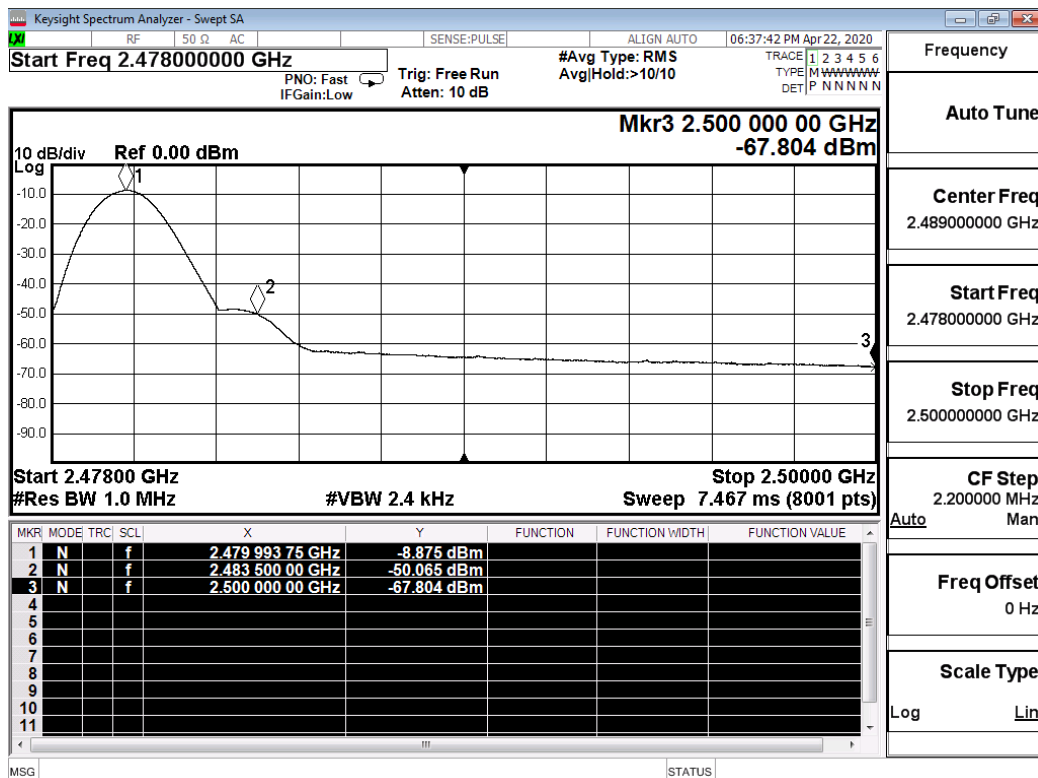
Restrict-band band-edge measurements_Hopping Off_GFSK_Average (Low Channel)

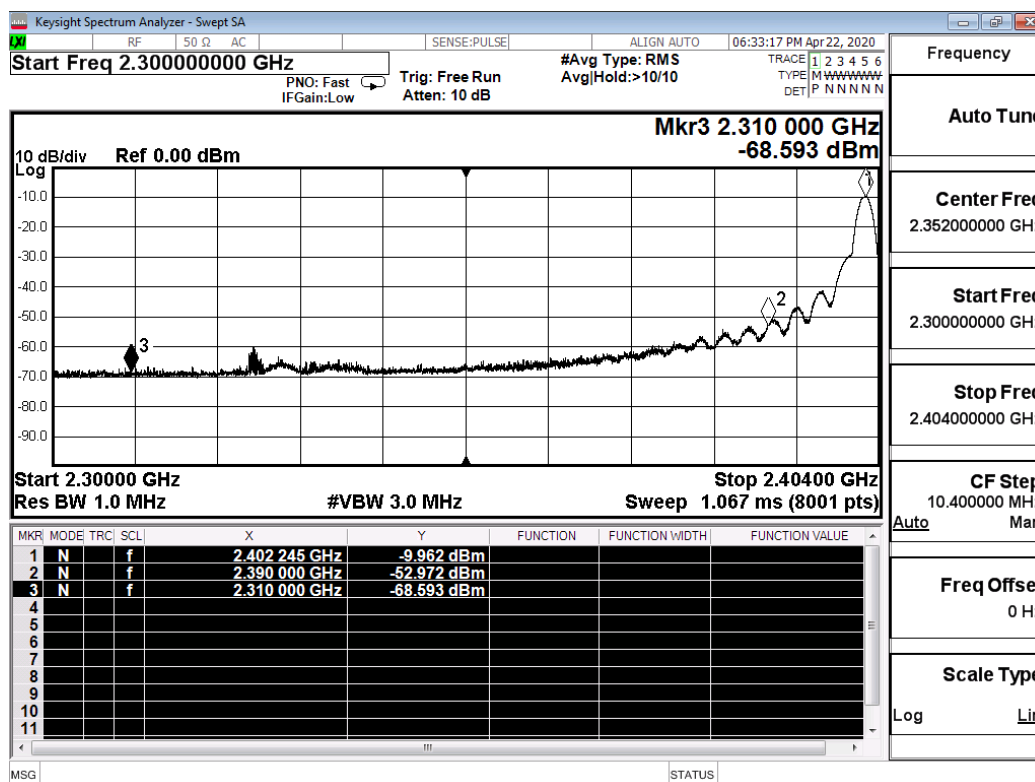
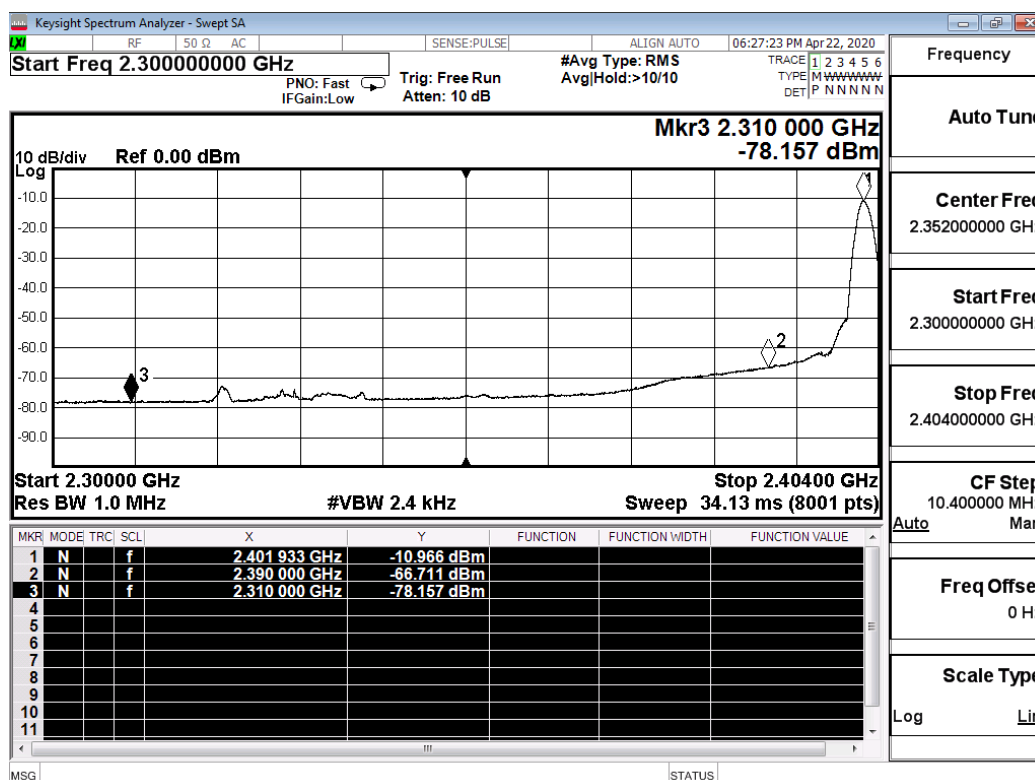


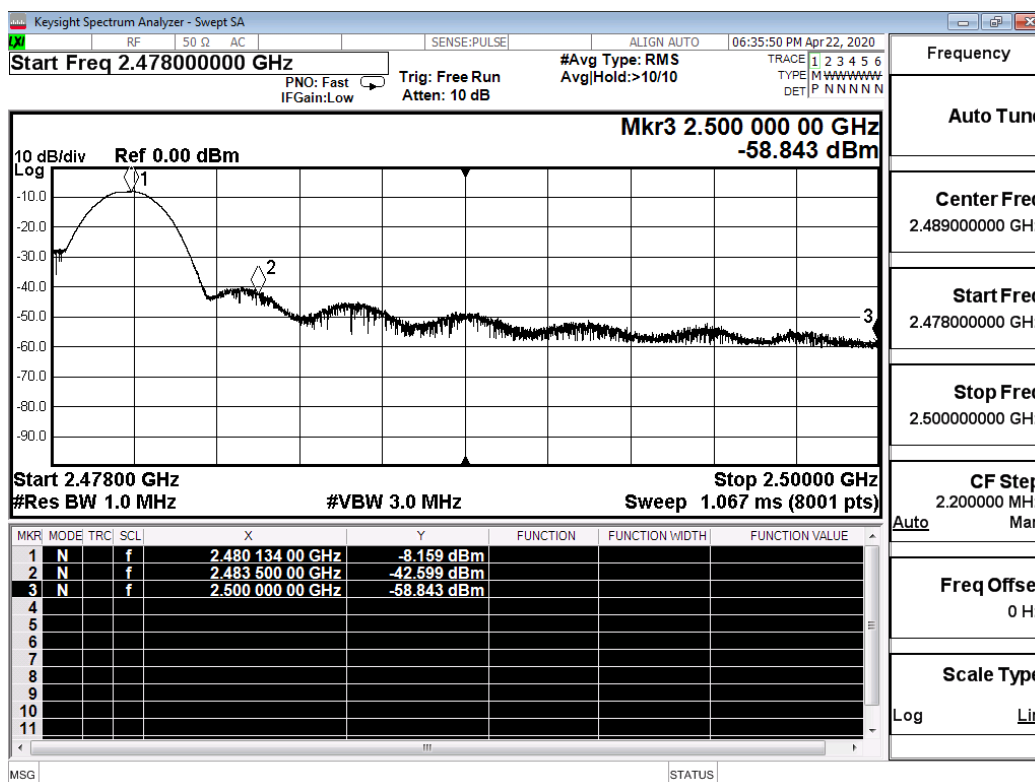
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (High Channel)



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