Appendix A

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

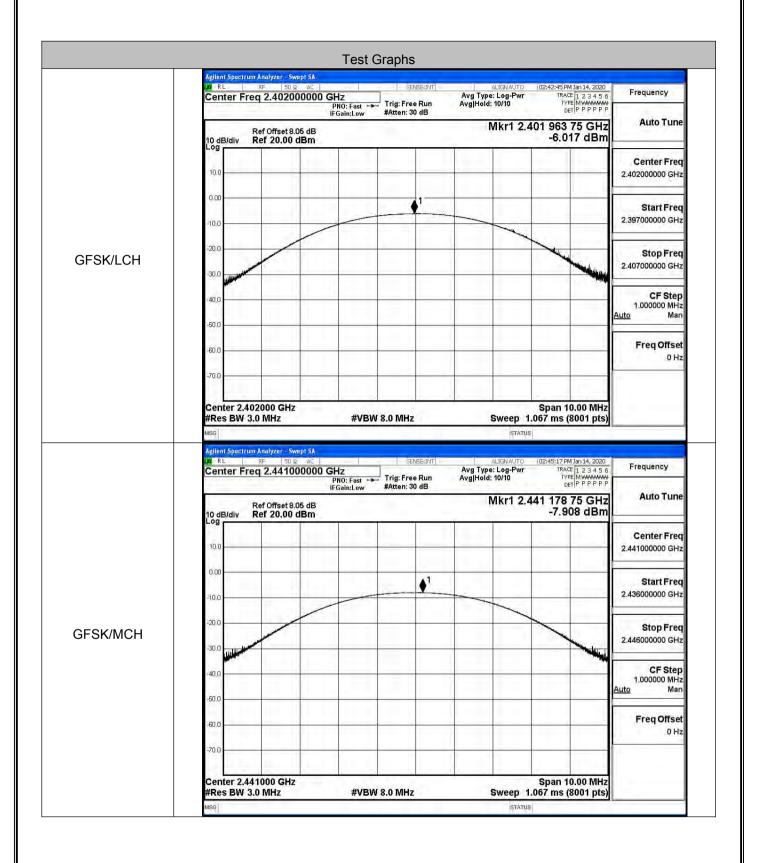
Product Name:Wireless Speaker
Trade Mark: Bud light Tower Speaker
Test Model: TWG3772

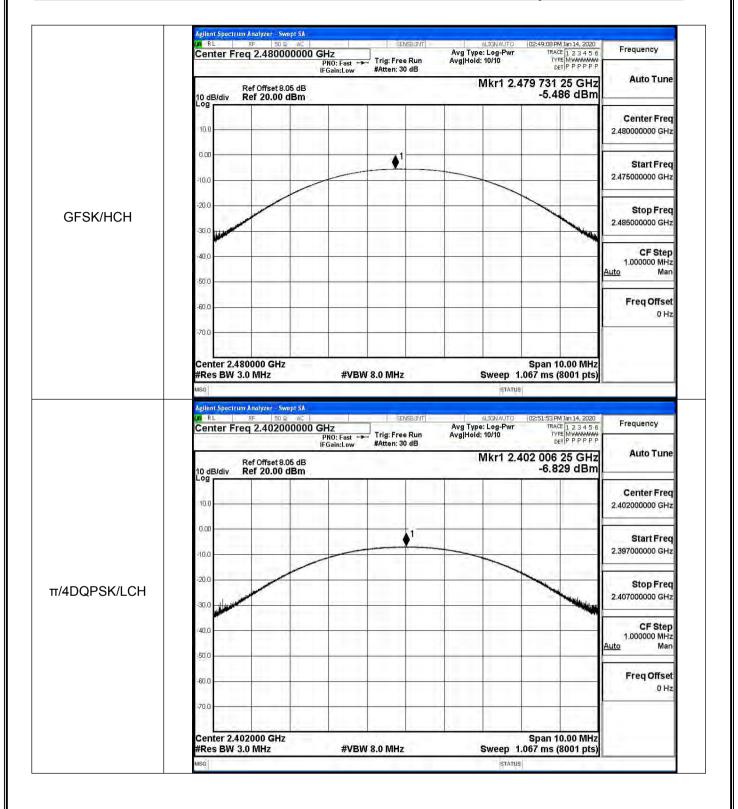
Environmental Conditions

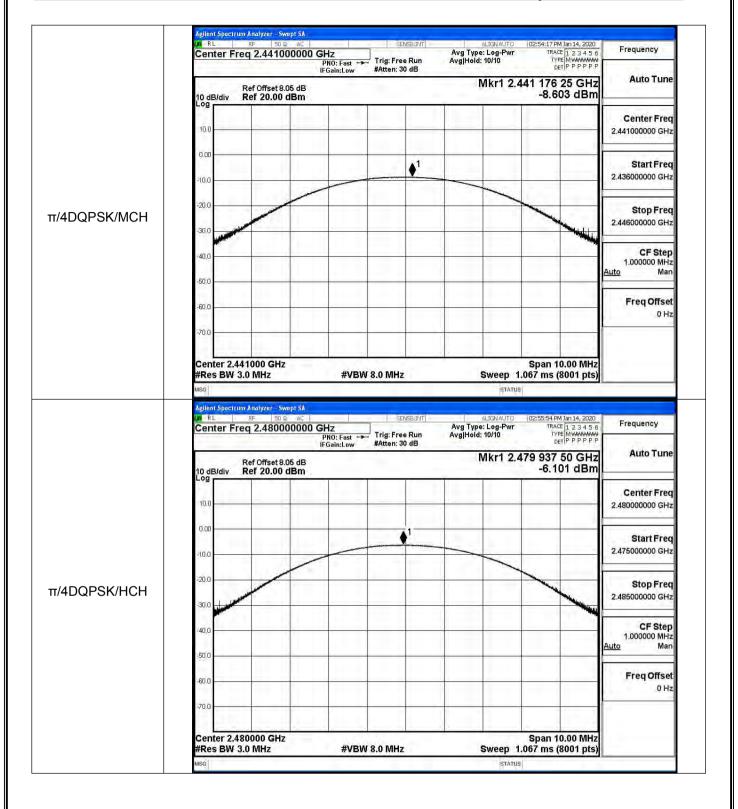
Temperature:	22.9 ° C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond.Lu
Supervised by:	Tom.Liu

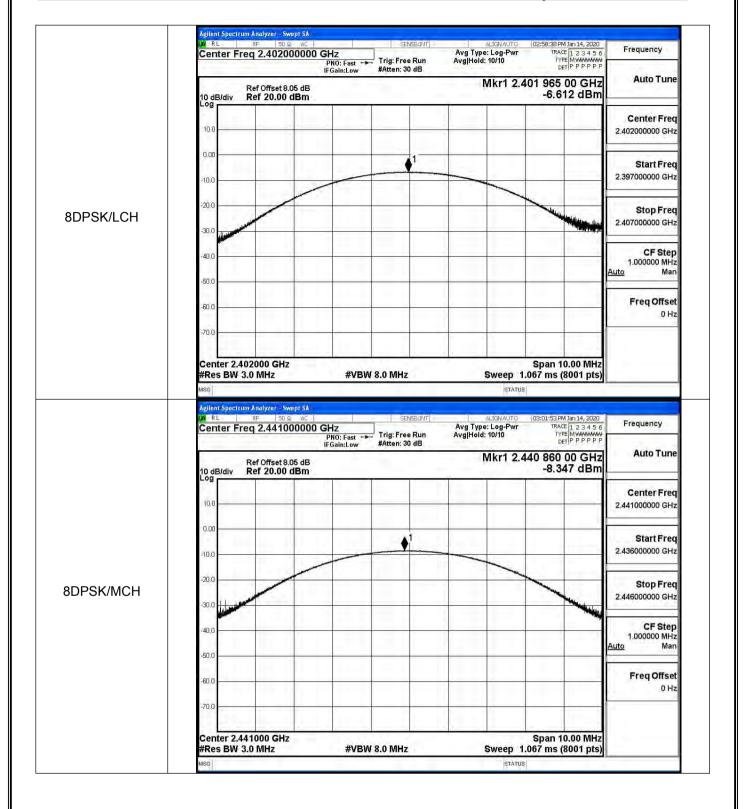
A.1 Maxmum Conducted Peak Output Power

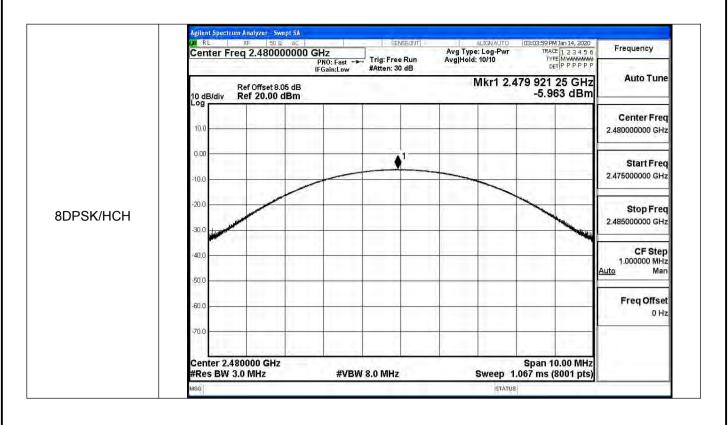
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	-6.017	30	PASS
GFSK	MCH	-7.908	30	PASS
	НСН	-5.486	30	PASS
	LCH	-6.829	21	PASS
π/4DQPSK	MCH	-8.603	21	PASS
	НСН	-6.101	21	PASS
	LCH	-6.612	21	PASS
8DPSK	MCH	-8.347	21	PASS
	НСН	-5.963	21	PASS





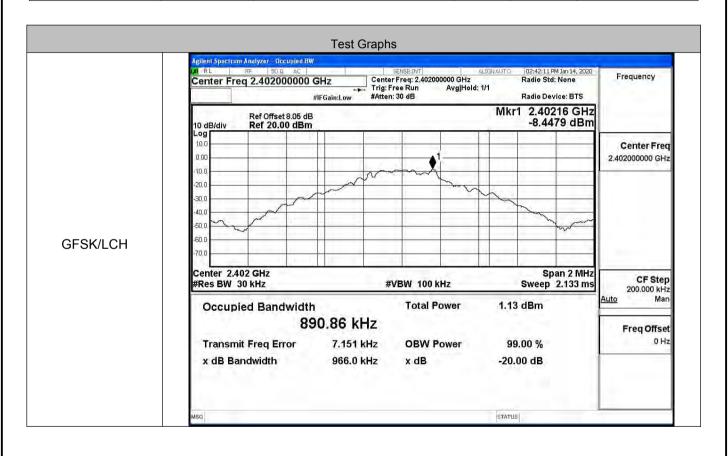


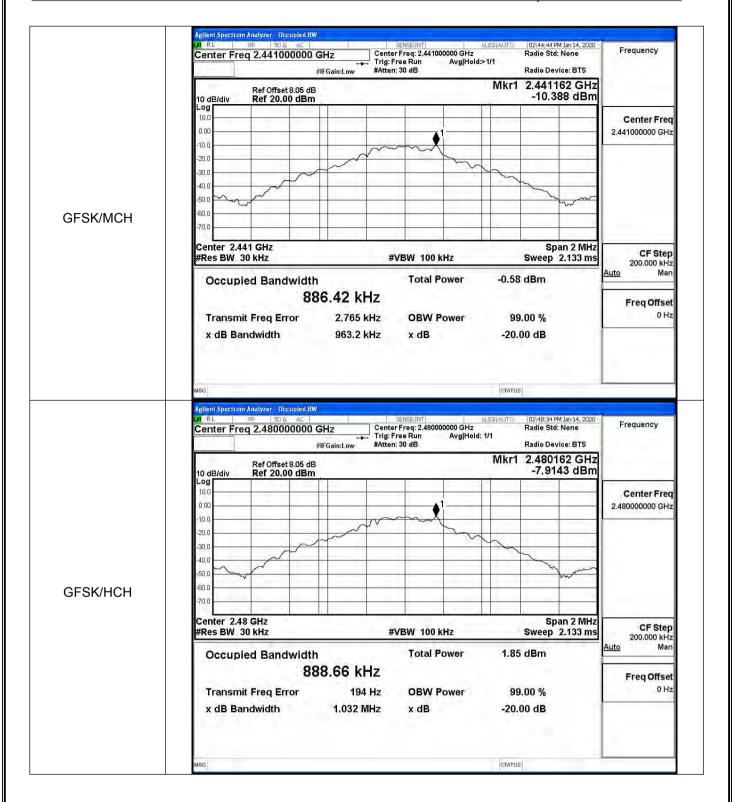


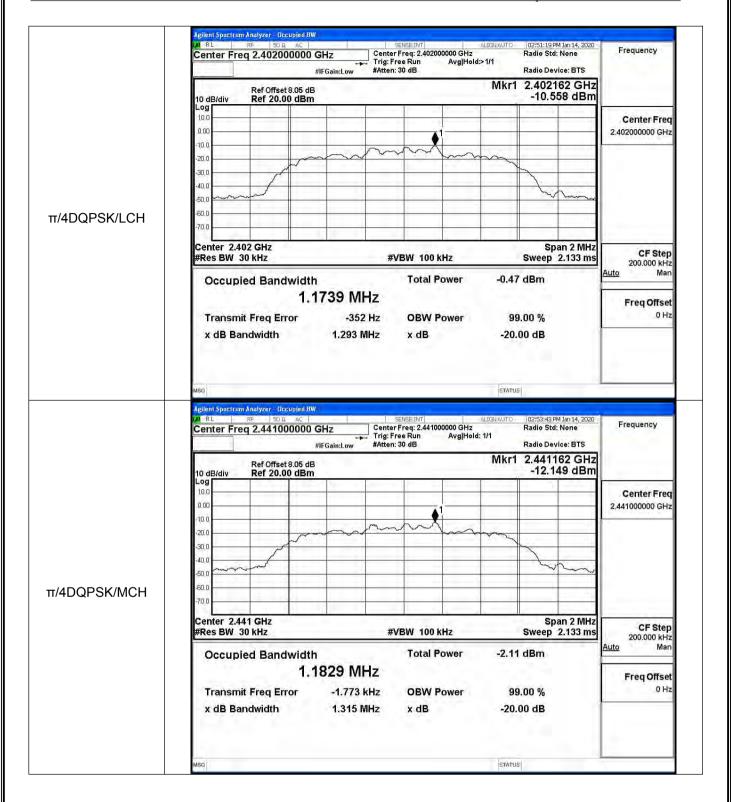


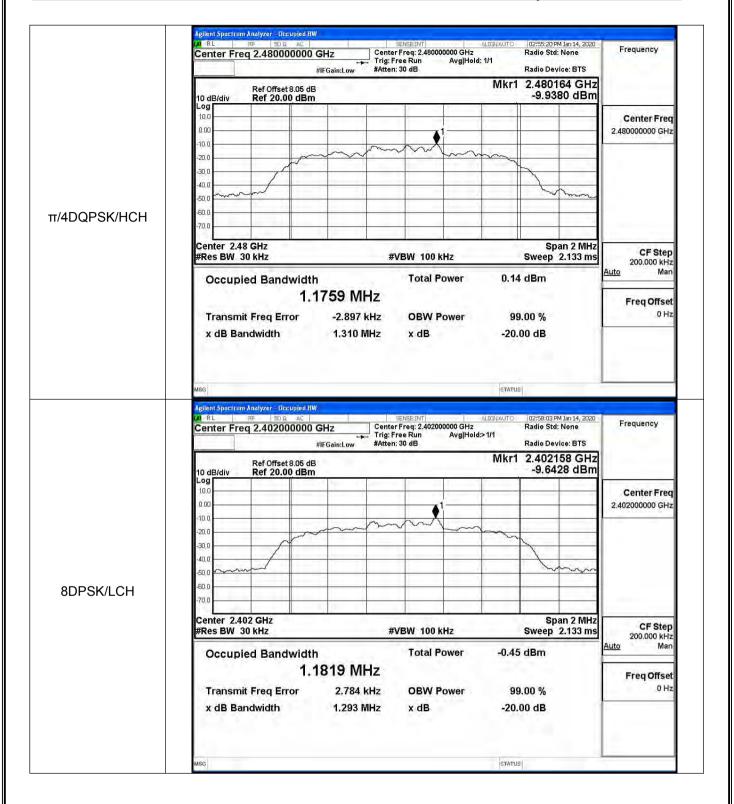
A.2 20dB Bandwidth

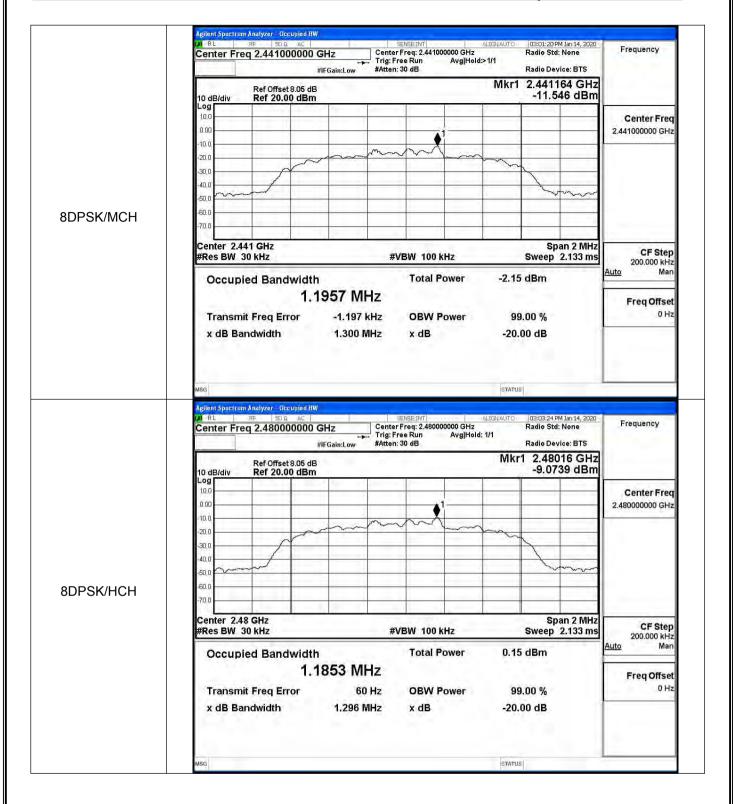
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	0.9660	Not Specified	PASS
GFSK	MCH	0.9632	Not Specified	PASS
	HCH	1.032	Not Specified	PASS
	LCH	1.293	Not Specified	PASS
π/4DQPSK	MCH	1.315	Not Specified	PASS
	HCH	1.310	Not Specified	PASS
	LCH	1.293	Not Specified	PASS
8DPSK	MCH	1.300	Not Specified	PASS
	HCH	1.296	Not Specified	PASS





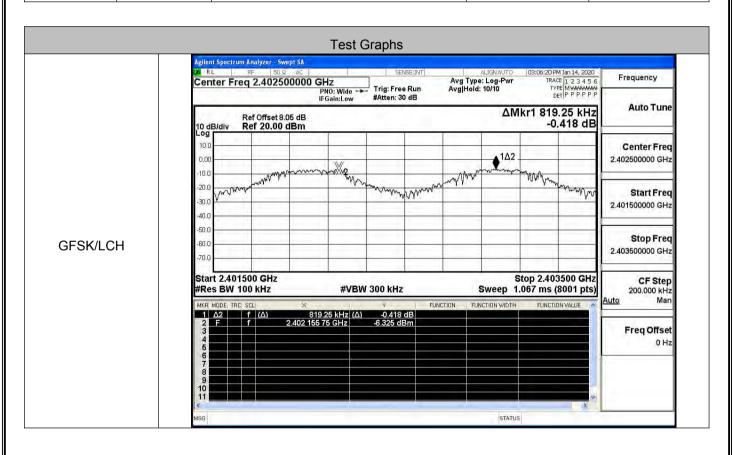


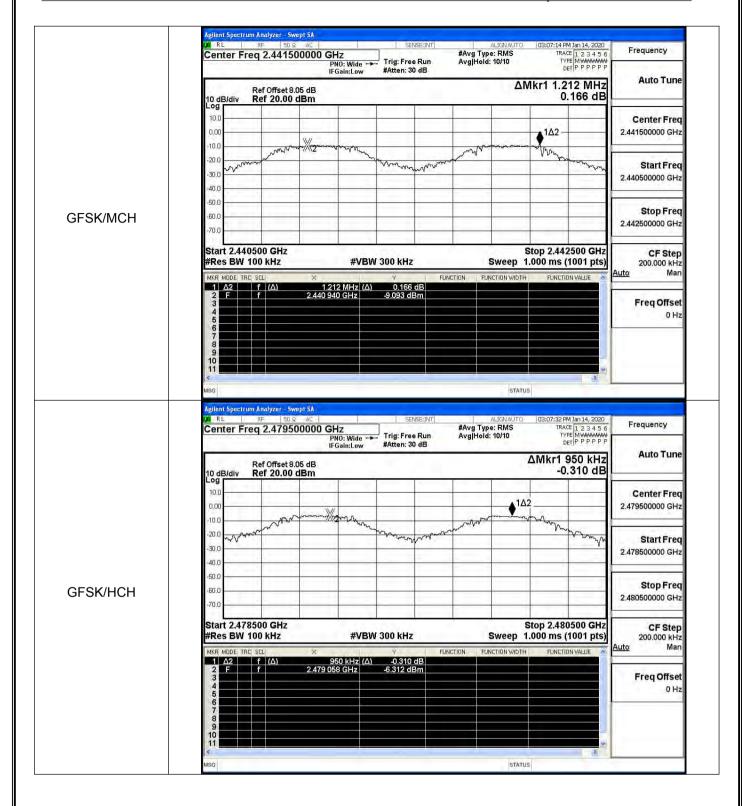


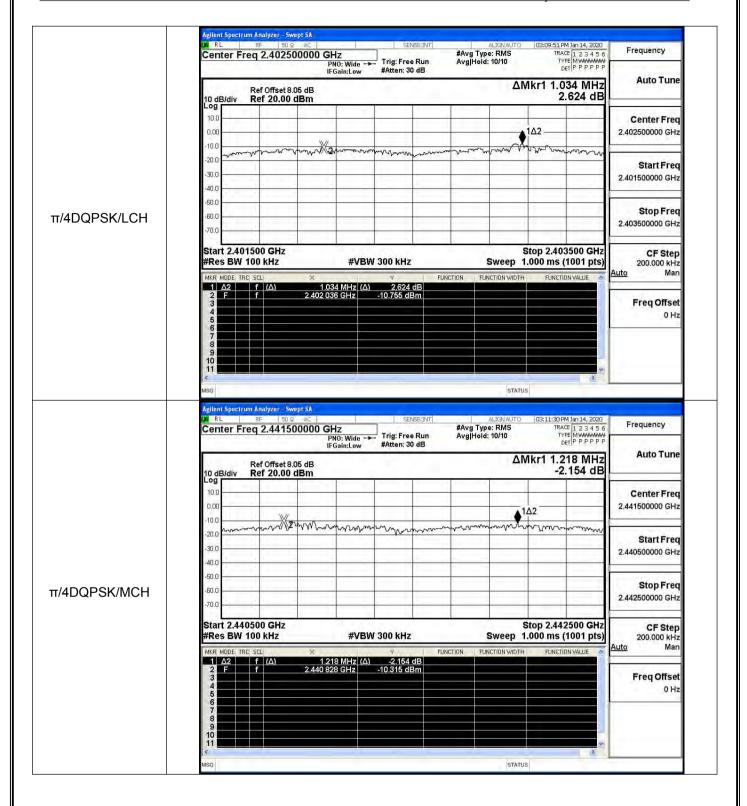


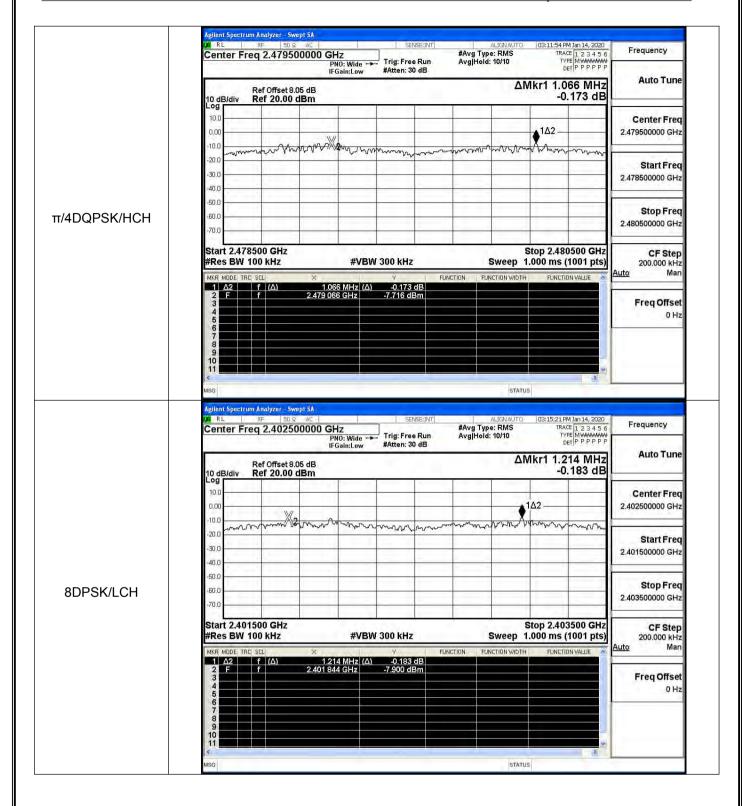
A.3 Carrier Frequency Separation

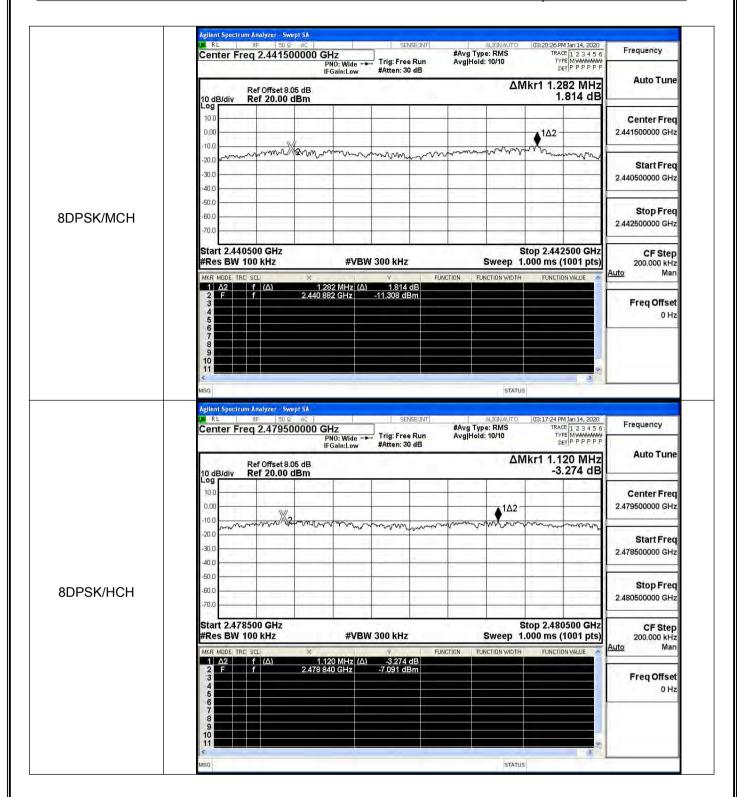
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	0.819	0.688	PASS
GFSK	MCH	1.212	0.688	PASS
	HCH	0.950	0.688	PASS
	LCH	1.034	0.877	PASS
π/4DQPSK	MCH	1.218	0.877	PASS
	НСН	1.066	0.877	PASS
	LCH	1.214	0.867	PASS
8DPSK	MCH	1.282	0.867	PASS
	HCH	1.120	0.867	PASS





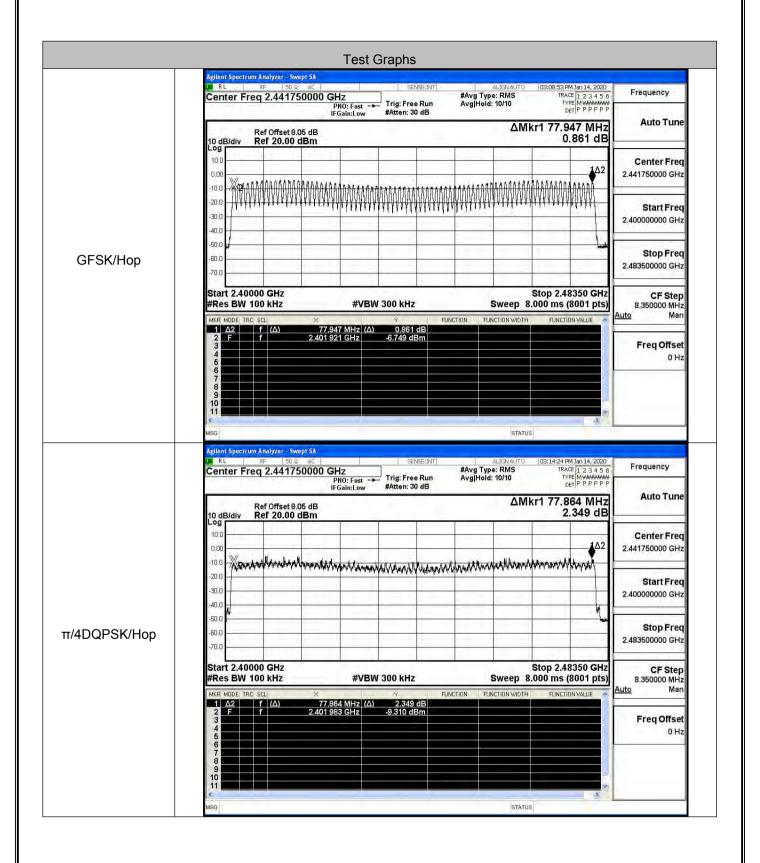


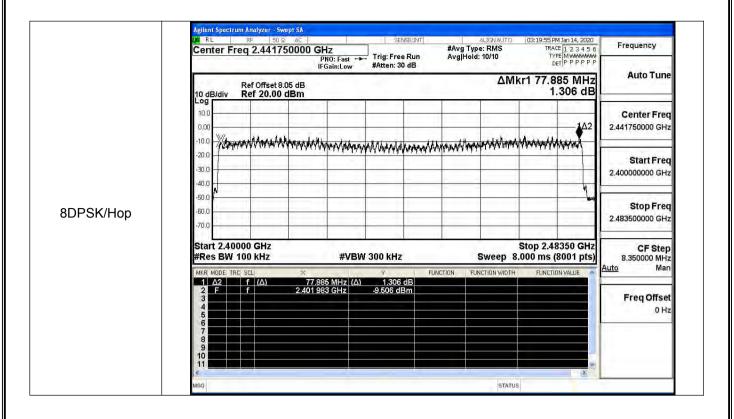




A.4 Hopping Channel Number

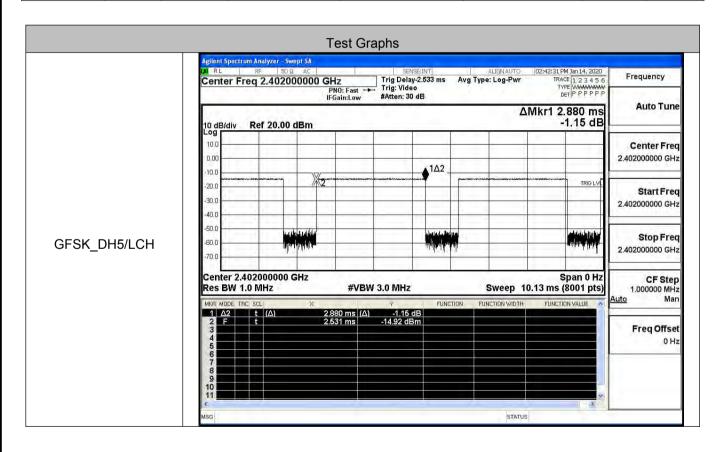
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK Hop		79	>=15	PASS
8DPSK	Нор	79	>=15	PASS

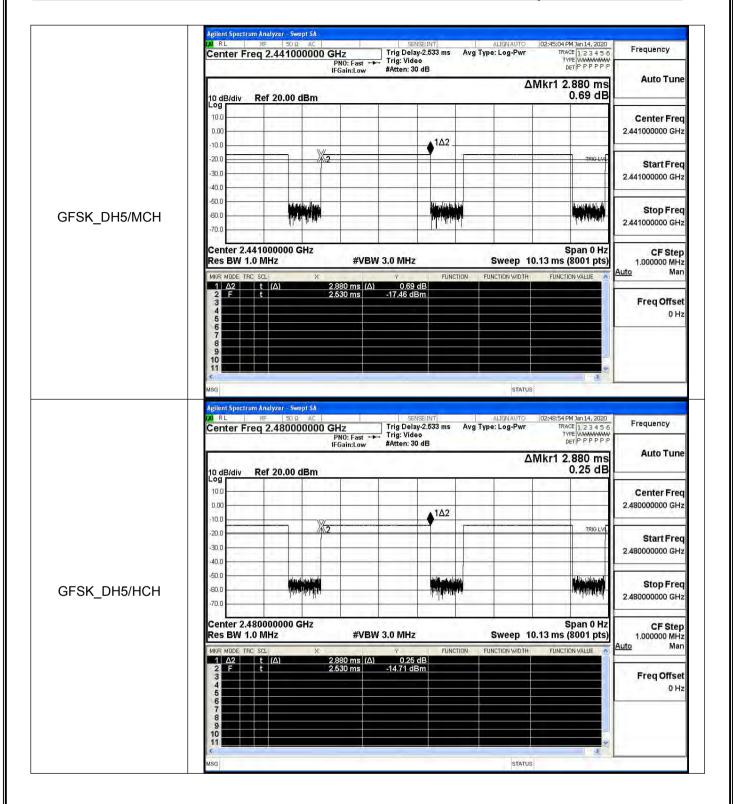


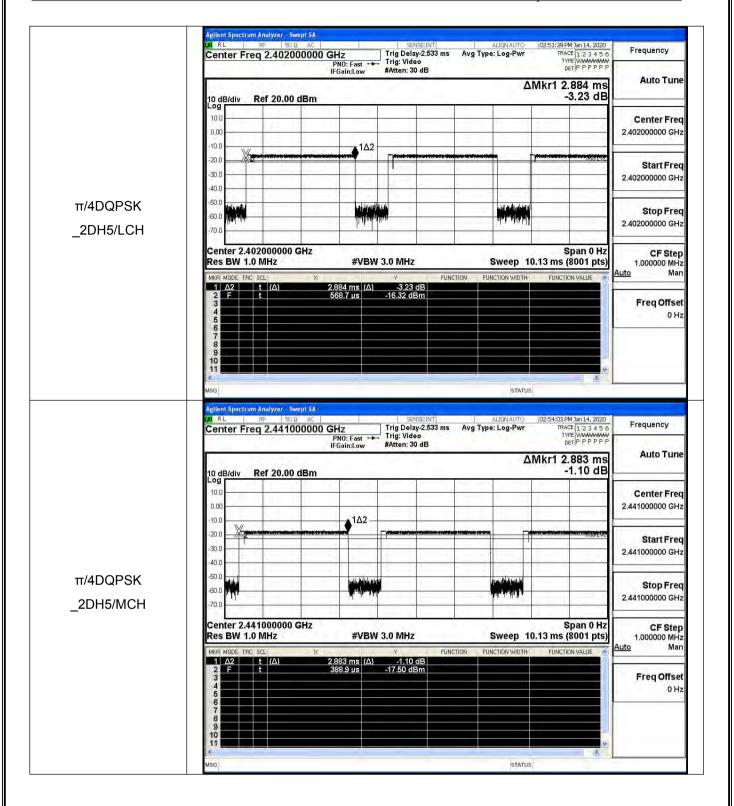


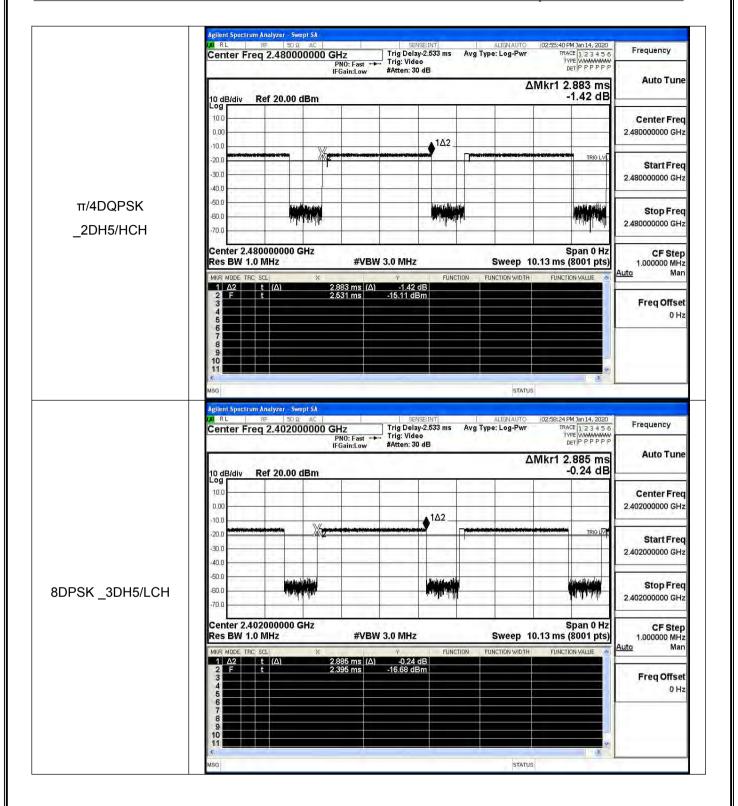
A.5 Dwell Time

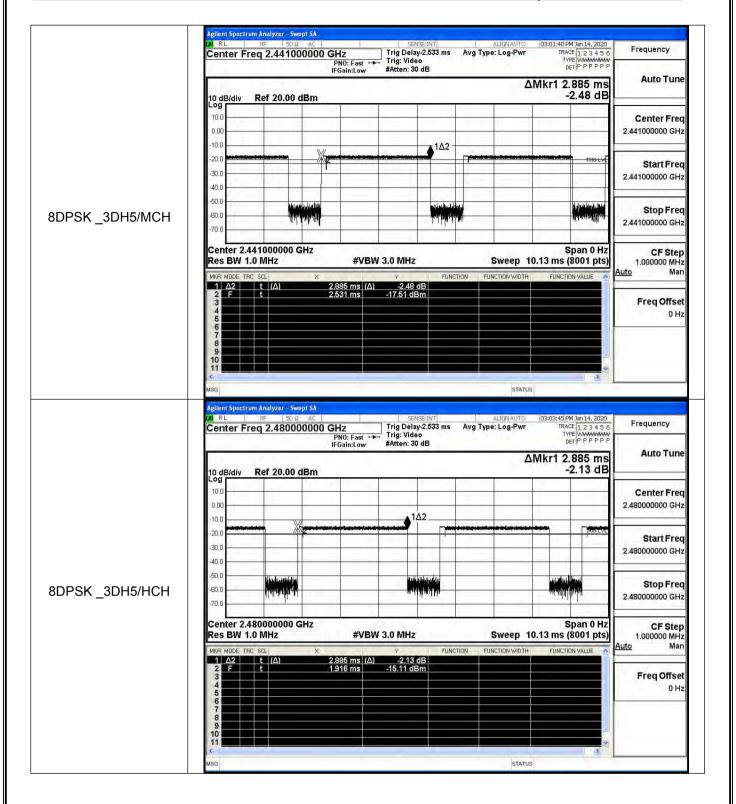
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
	DH5	LCH	2.88	106.7	0.307	0.4	PASS
GFSK	DH5	мсн	2.88	106.7	0.307	0.4	PASS
	DH5	НСН	2.88	106.7	0.307	0.4	PASS
	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
π/4DQPSK	2DH5	МСН	2.88	106.7	0.307	0.4	PASS
	2DH5	НСН	2.88	106.7	0.307	0.4	PASS
	3DH5	LCH	2.88	106.7	0.308	0.4	PASS
8DPSK	3DH5	MCH	2.88	106.7	0.308	0.4	PASS
	3DH5	HCH	2.88	106.7	0.308	0.4	PASS





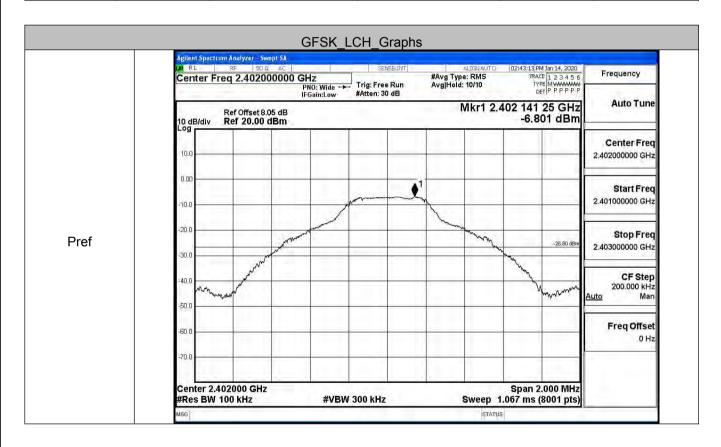




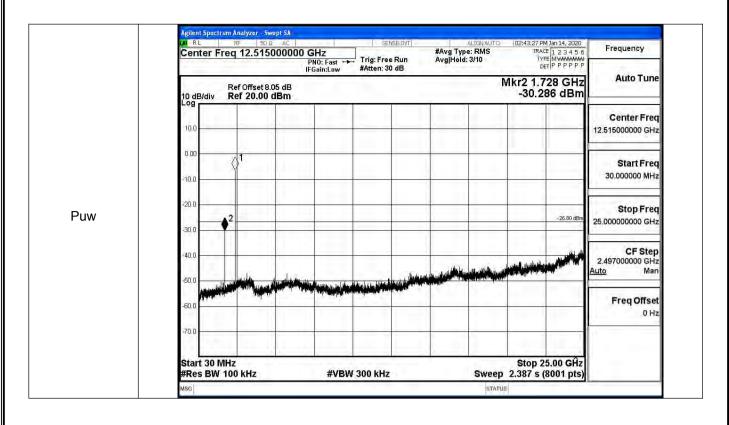


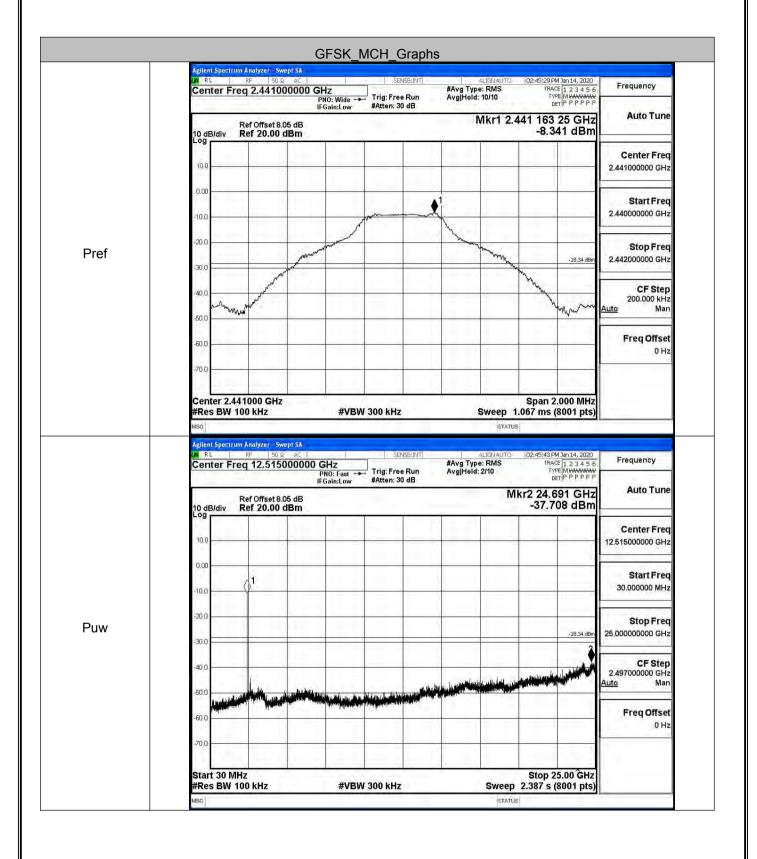
A.6 RF Conducted Spurious Emissions

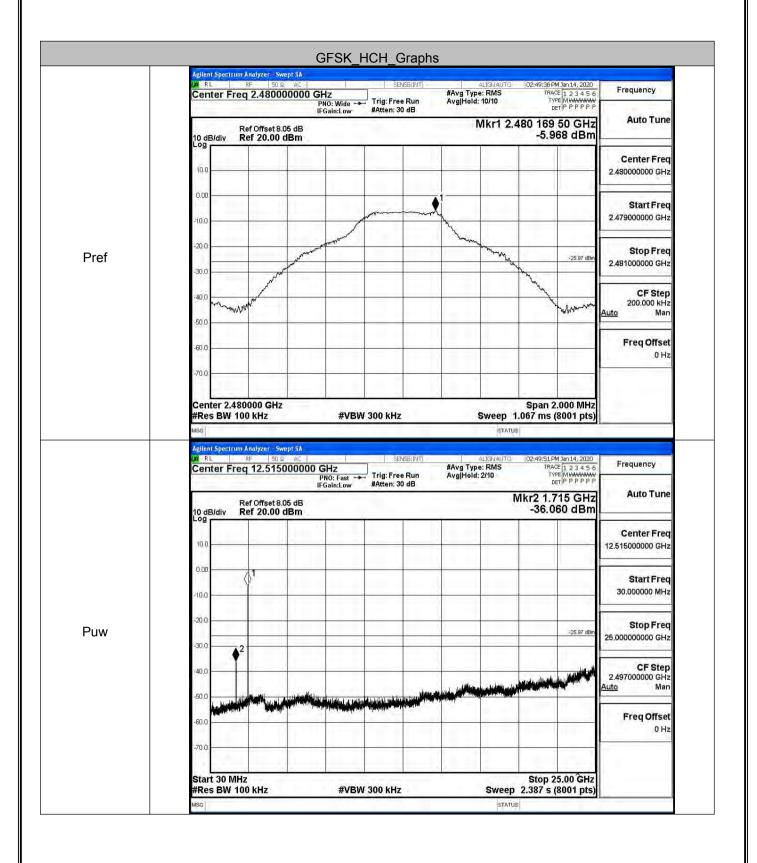
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	-6.801	-30.286	-26.801	PASS
GFSK	MCH	-8.341	-37.708	-28.341	PASS
	HCH	-5.968	-36.060	-25.968	PASS
	LCH	-7.766	-37.987	-27.766	PASS
π/4DQPSK	MCH	-9.625	-37.710	-29.625	PASS
	HCH	-7.031	-38.106	-27.031	PASS
	LCH	-7.827	-37.538	-27.827	PASS
8DPSK	MCH	-9.361	-37.124	-29.361	PASS
	HCH	-7.729	-37.458	-27.729	PASS

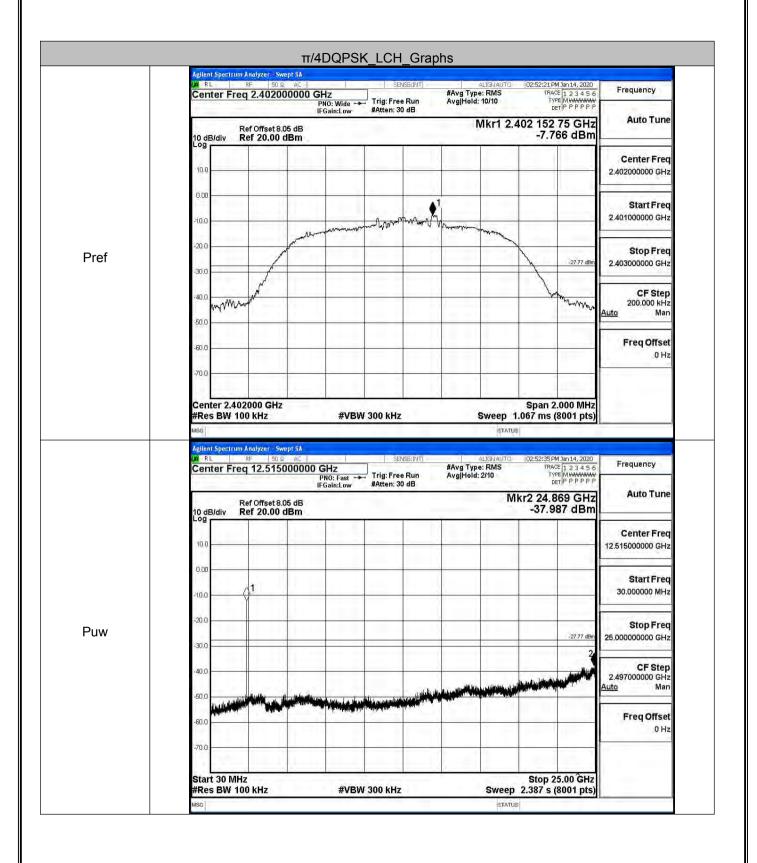


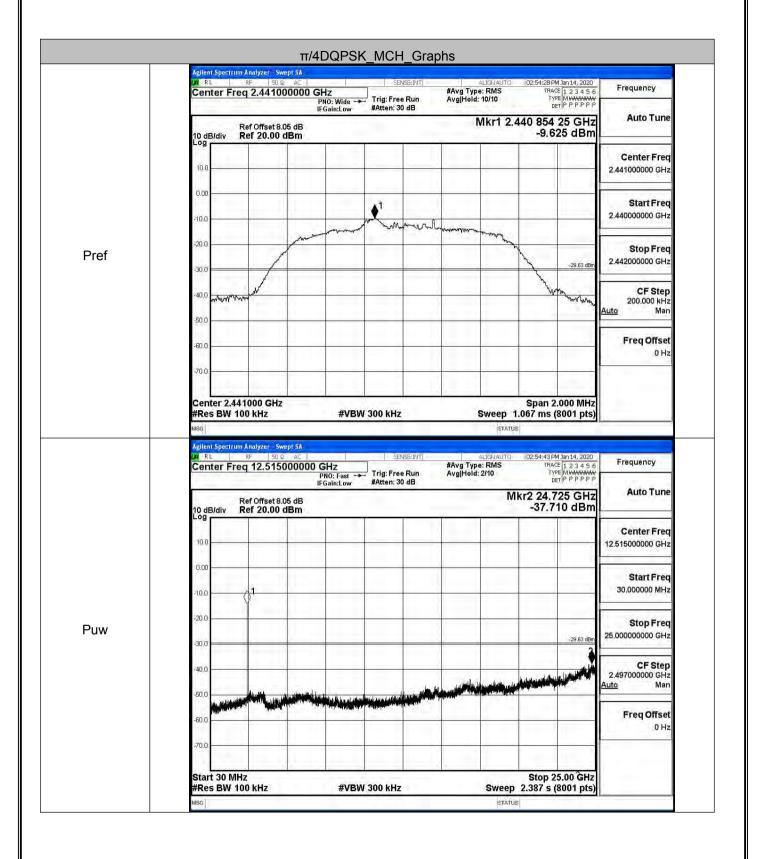
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC 1D:2ALR9-KDL-BT1916 Report No.: LCS200109029AEA

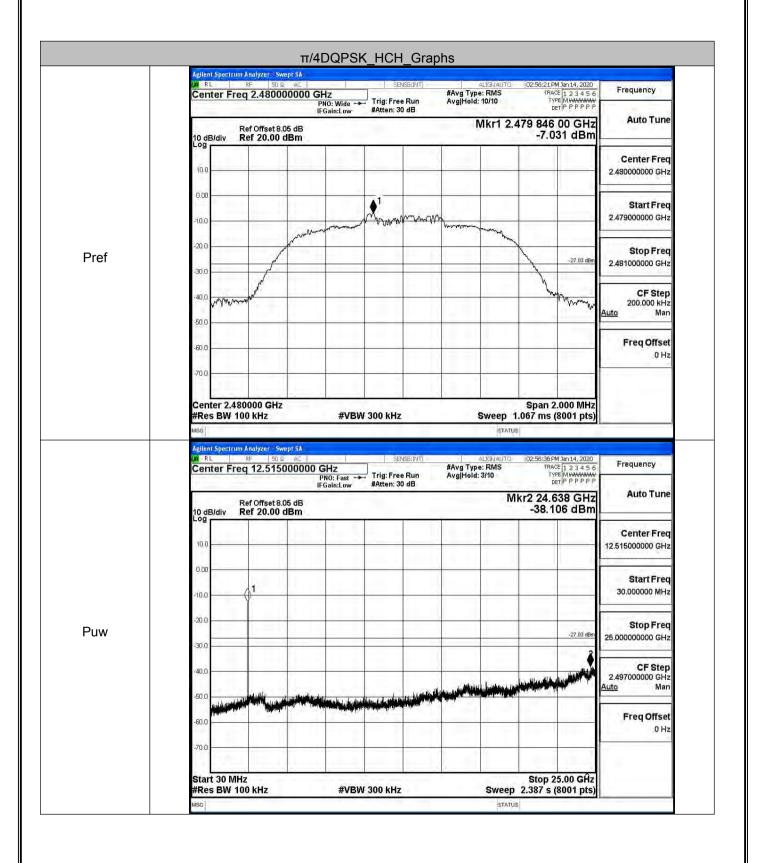


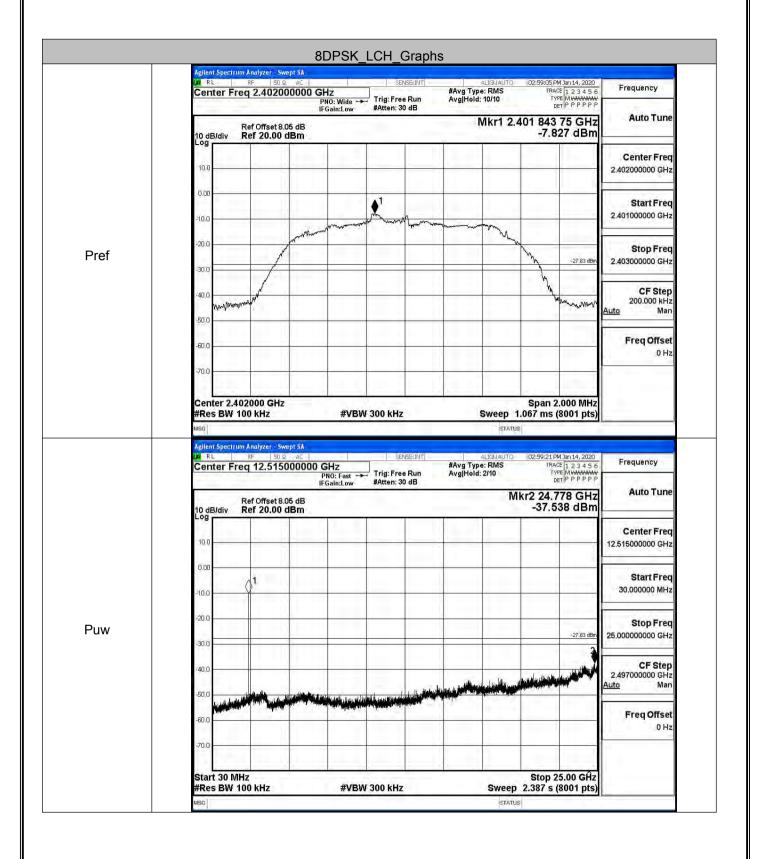


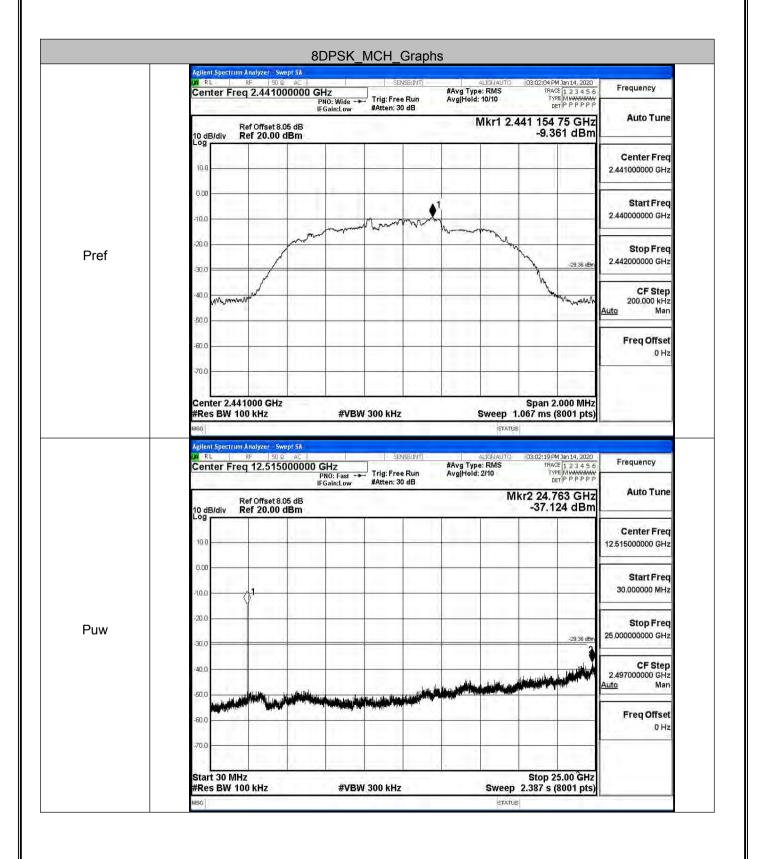


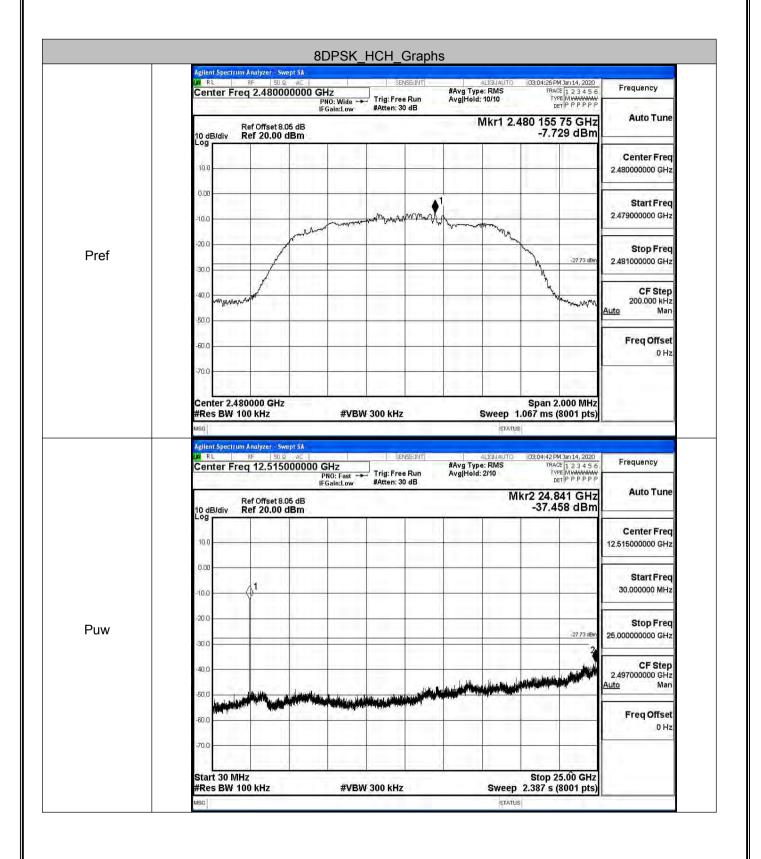






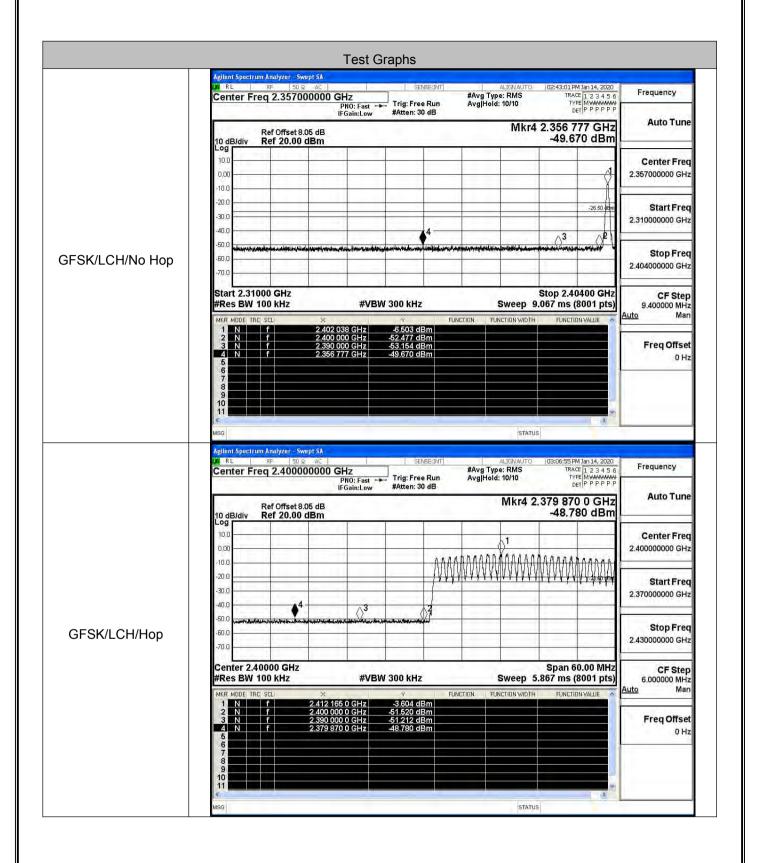


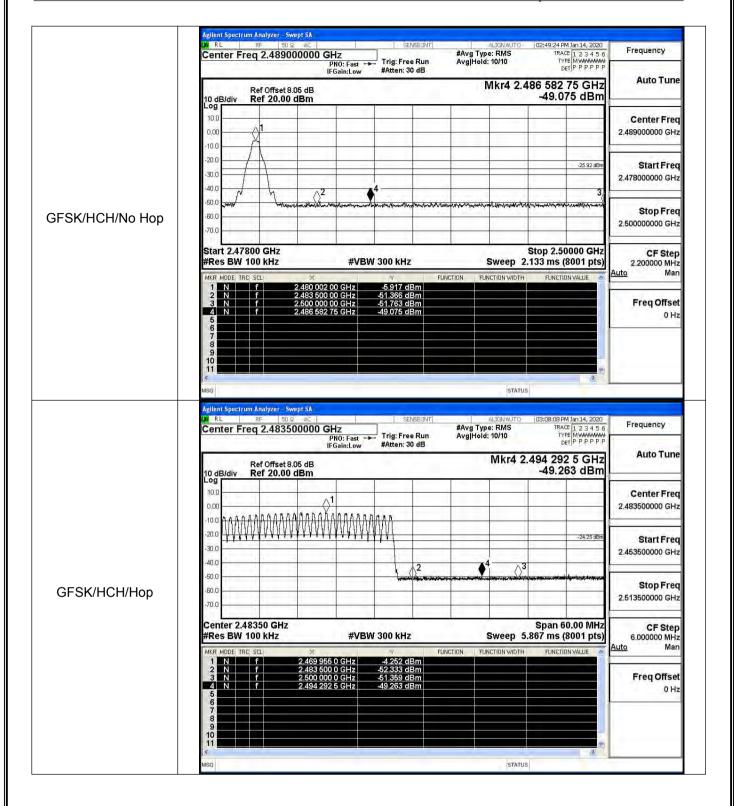


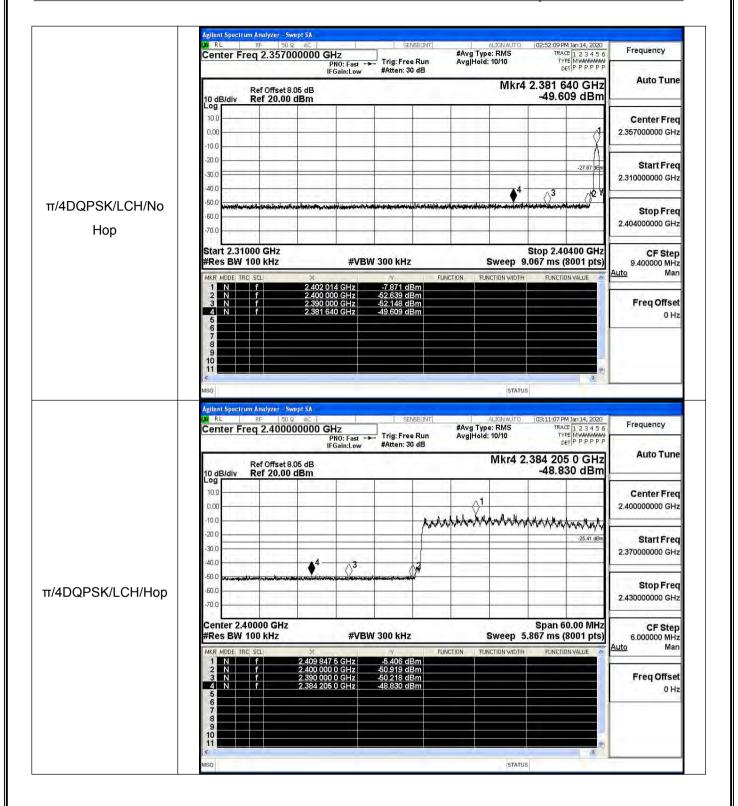


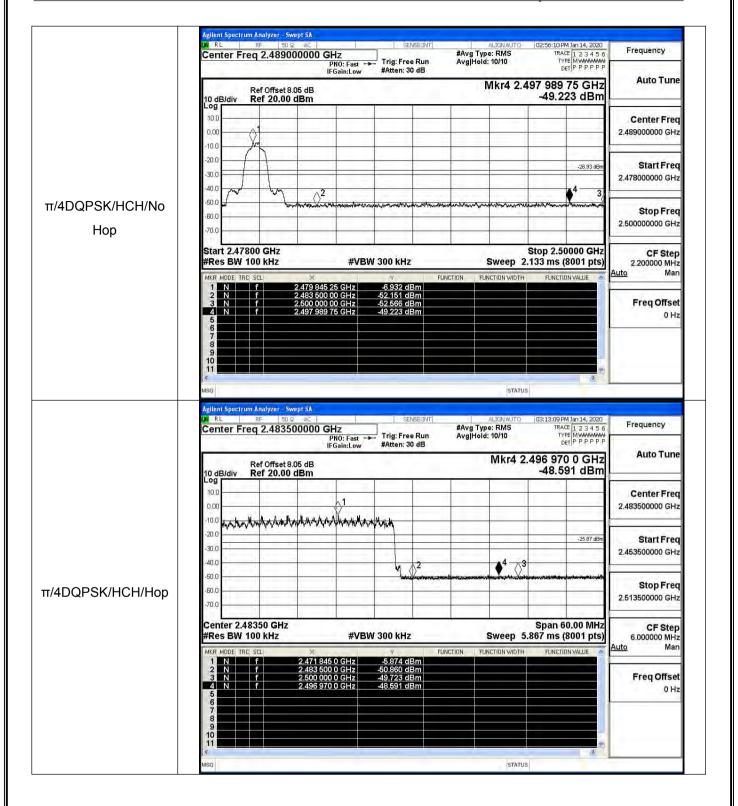
A.7 Band-edge for RF Conducted Emissions

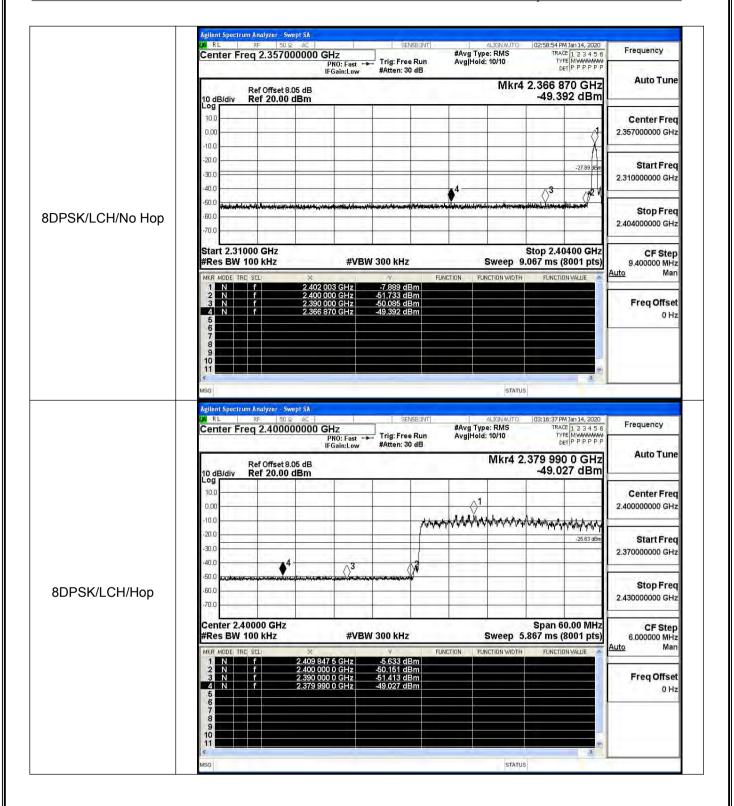
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict			
		0.400	-6.503	Off	-49.670	-26.5	PASS			
0501	LCH	2402	-3.604	On	-48.780	-23.6	PASS			
GFSK	НСН		-5.917	Off	-49.075	-25.92	PASS			
		2480	-4.252	On	-49.263	-24.25	PASS			
	LCH					-7.871	Off	-49.609	-27.87	PASS
		2402	-5.406	On	-48.830	-25.41	PASS			
π/4DQPSK	НСН		-6.932	Off	-49.223	-26.93	PASS			
		ICH 2480	-5.874	On	-48.591	-25.87	PASS			
		.CH 2402	-7.889	Off	-49.392	-27.89	PASS			
8DPSK	LCH		-5.633	On	-49.027	-25.63	PASS			
			-7.676	Off	-48.793	-27.68	PASS			
	HCH	2480	-5.950	On	-48.402	-25.95	PASS			

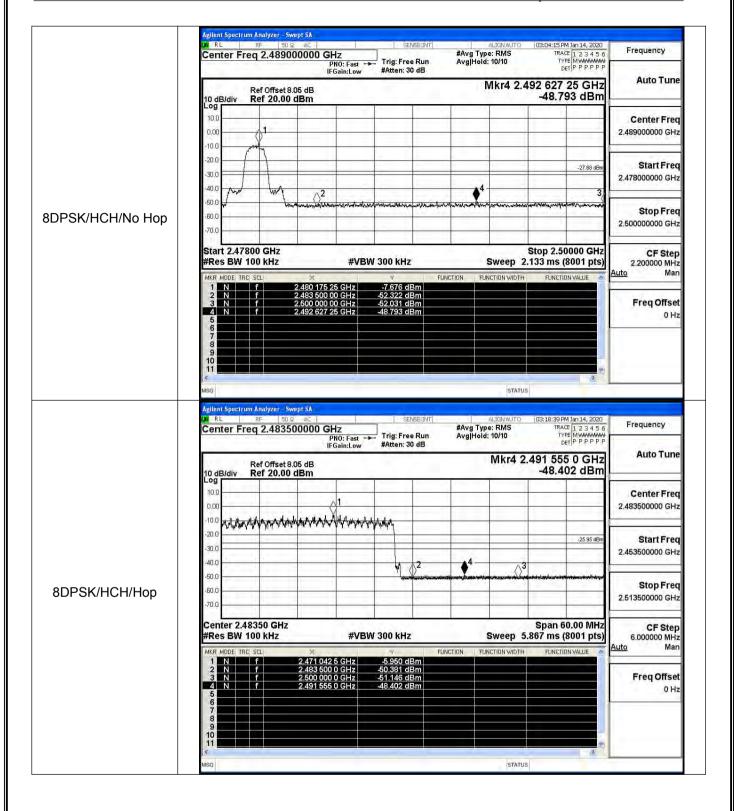






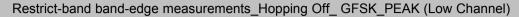


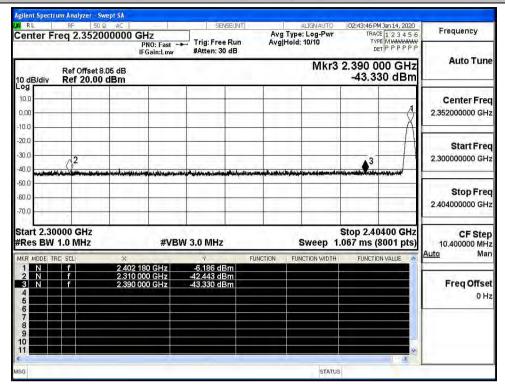




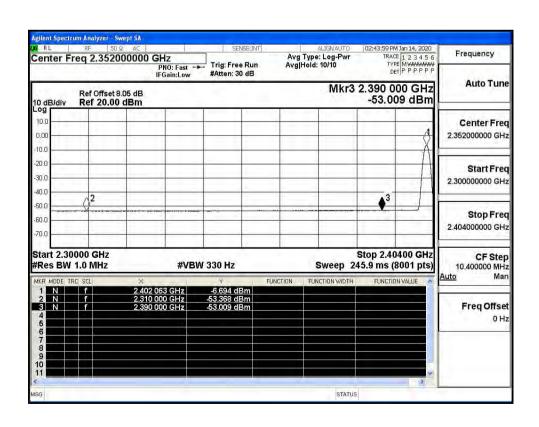
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-42.44	2.0	0	54.79	PEAK	74	PASS
	Off	2310.0	-53.37	2.0	0	43.86	AV	54	PASS
	Off	2390.0	-43.33	2.0	0	53.9	PEAK	74	PASS
	Off	2390.0	-53.01	2.0	0	44.22	AV	54	PASS
GFSK	Off	2483.5	-42.85	2.0	0	54.38	PEAK	74	PASS
	Off	2483.5	-52.55	2.0	0	40.68	AV	54	PASS
	Off	2500.0	-40.54	2.0	0	56.69	PEAK	74	PASS
	Off	2500.0	-52.38	2.0	0	44.85	AV	54	PASS
	Off	2310.0	-43.09	2.0	0	54.14	PEAK	74	PASS
	Off	2310.0	-53.43	2.0	0	43.8	AV	54	PASS
	Off	2390.0	-40.55	2.0	0	56.68	PEAK	74	PASS
	Off	2390.0	-53.04	2.0	0	44.19	AV	54	PASS
π/4DQPSK	Off	2483.5	-42.02	2.0	0	55.21	PEAK	74	PASS
	Off	2483.5	-52.57	2.0	0	40.66	AV	54	PASS
	Off	2500.0	-41.10	2.0	0	56.13	PEAK	74	PASS
	Off	2500.0	-52.33	2.0	0	44.9	AV	54	PASS
	Off	2310.0	-43.23	2.0	0	54	PEAK	74	PASS
	Off	2310.0	-53.39	2.0	0	43.84	AV	54	PASS
	Off	2390.0	-42.36	2.0	0	54.87	PEAK	74	PASS
00001	Off	2390.0	-52.93	2.0	0	44.3	AV	54	PASS
8DPSK	Off	2483.5	-42.96	2.0	0	54.27	PEAK	74	PASS
	Off	2483.5	-52.59	2.0	0	40.64	AV	54	PASS
	Off	2500.0	-42.47	2.0	0	54.76	PEAK	74	PASS
	Off	2500.0	-52.35	2.0	0	44.88	AV	54	PASS

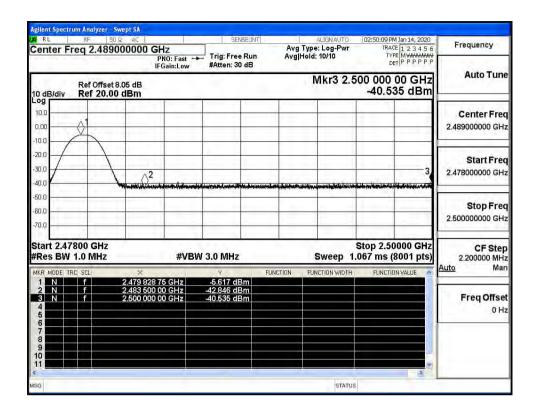




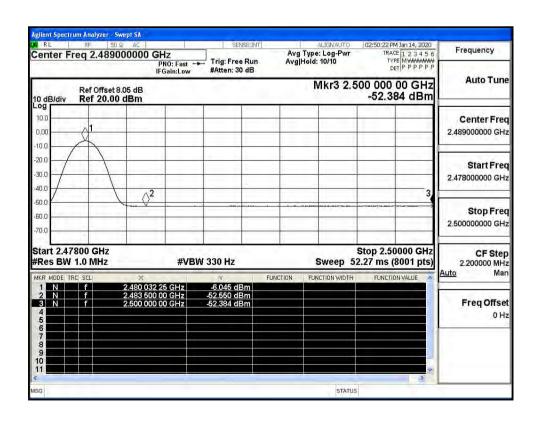
Restrict-band band-edge measurements Hopping Off GFSK Average (Low Channel)



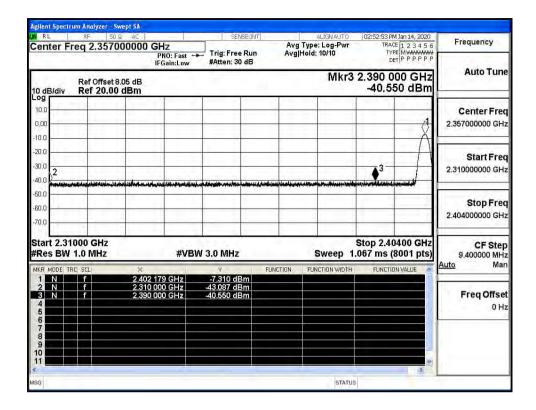
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



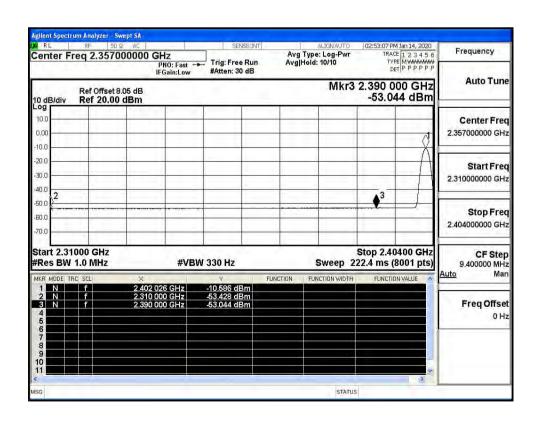
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



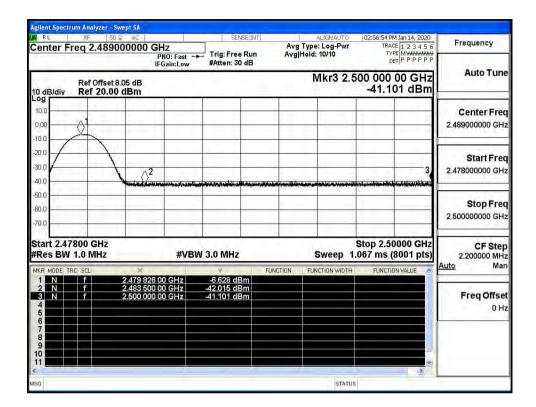
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



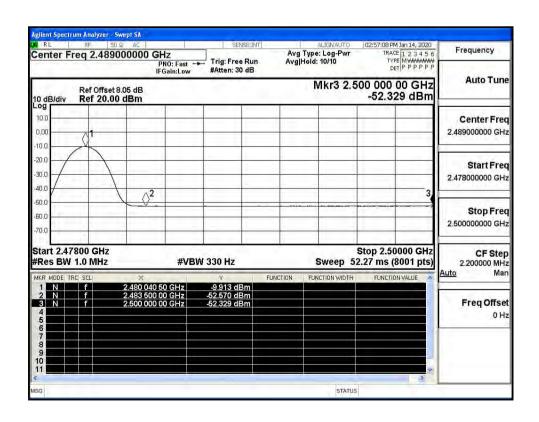
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



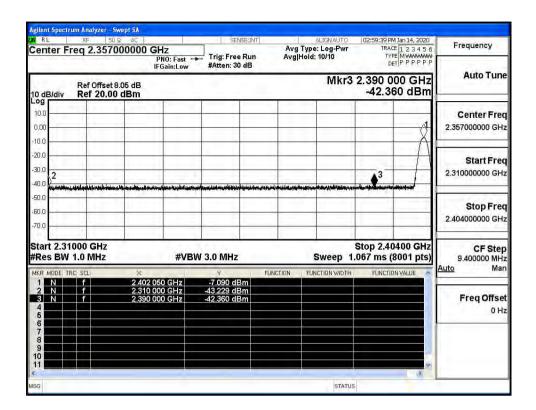
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



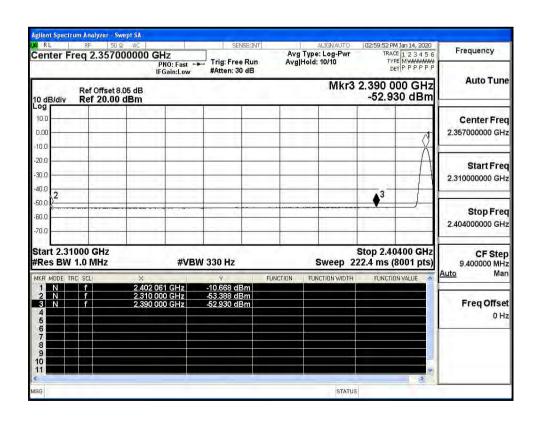
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



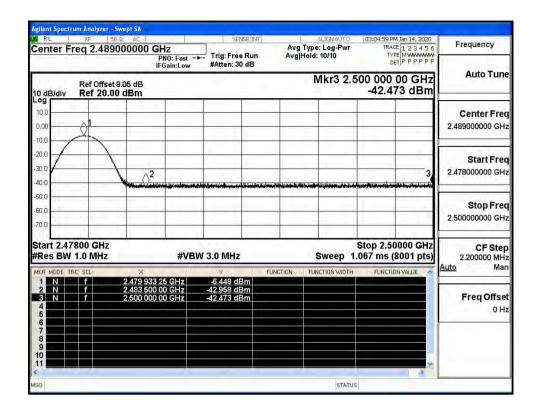
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



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)

