Appendix A

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

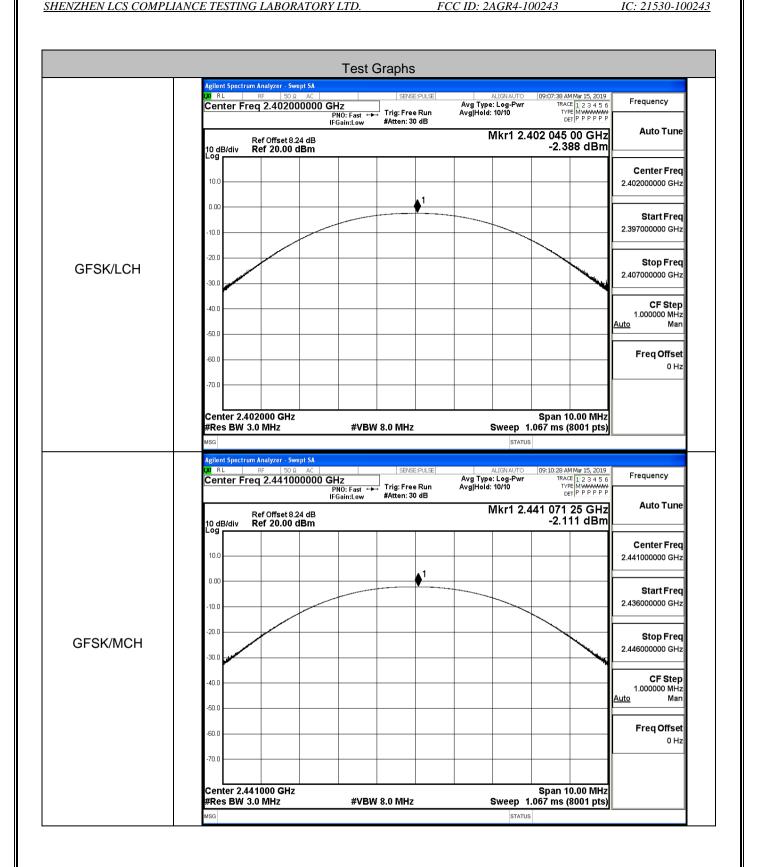
Product Name: Grant Bluetooth® Compact Speaker
Trade Mark: 100243-001B
Test Model: Gemline

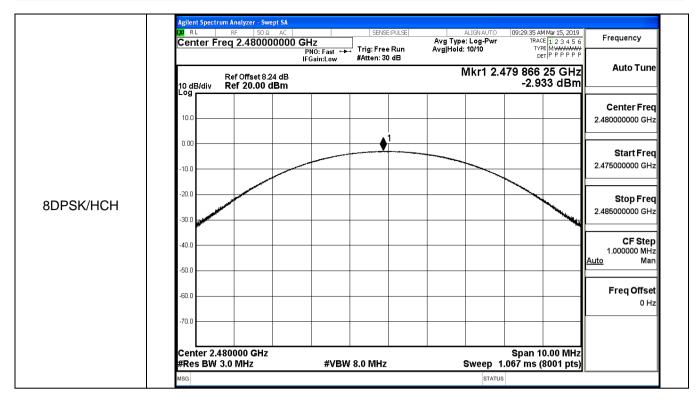
Environmental Conditions

Temperature:	21.8 ° C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond.Lu
Supervised by:	Tom.Liu

A.1 Maximum Conducted Peak Output Power

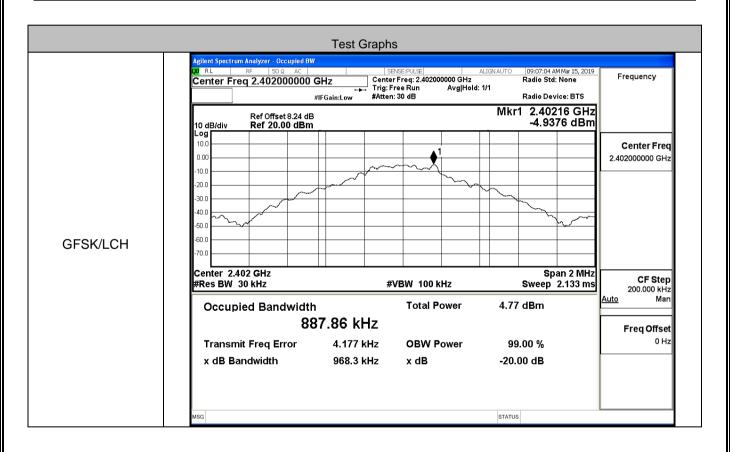
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	-2.388	21	PASS
GFSK	MCH	-2.111	21	PASS
	НСН	-2.537	21	PASS
	LCH	-3.245	21	PASS
π/4DQPSK	MCH	-2.692	21	PASS
	HCH	-1.492	21	PASS
	LCH	-3.048	21	PASS
8DPSK	MCH	-2.528	21	PASS
	HCH	-2.933	21	PASS





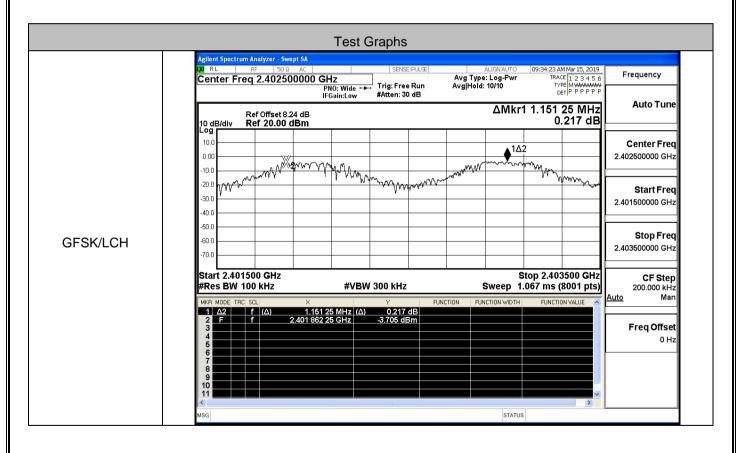
A.2 99% and 20dB Bandwidth

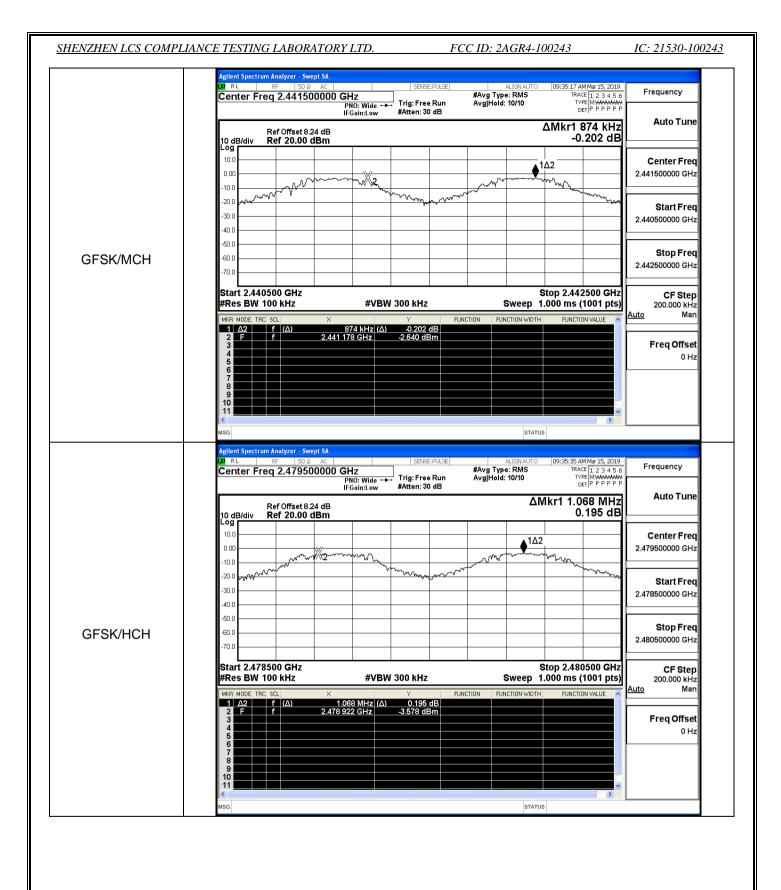
Mode	Channel.	99% Bandwidth [MHz]	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	0.88786	0.9683	Not Specified	PASS
GFSK	MCH	0.89071	0.9701	Not Specified	PASS
	HCH	0.89549	1.025	Not Specified	PASS
	LCH	1.1783	1.293	Not Specified	PASS
π/4DQPSK	MCH	1.1769	1.309	Not Specified	PASS
	HCH	1.1750	1.292	Not Specified	PASS
	LCH	1.1878	1.297	Not Specified	PASS
8DPSK	MCH	1.1915	1.297	Not Specified	PASS
	HCH	1.1878	1.298	Not Specified	PASS

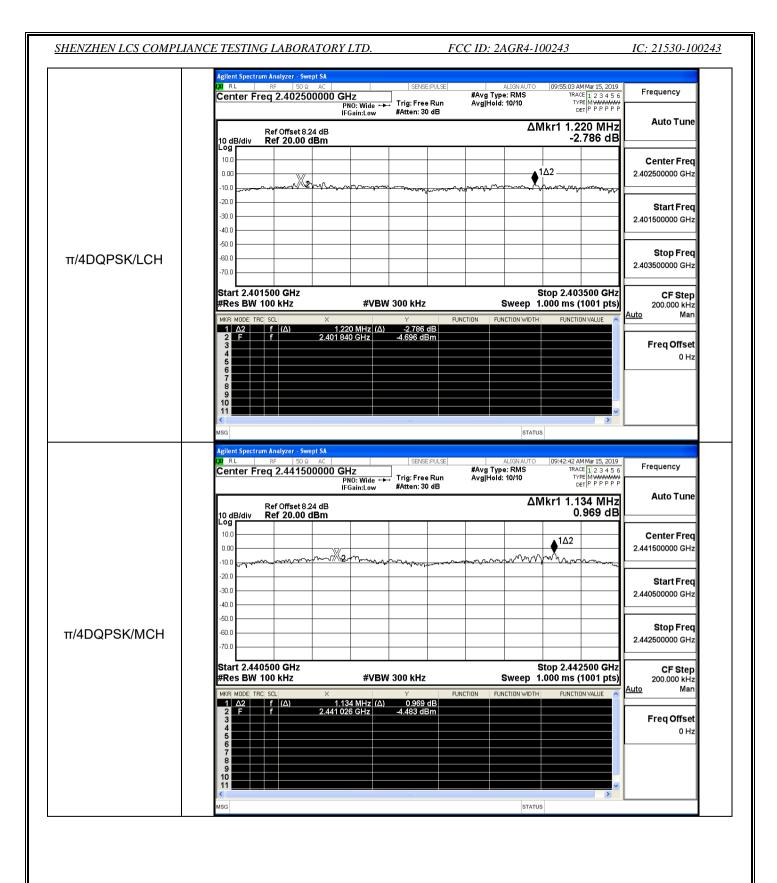


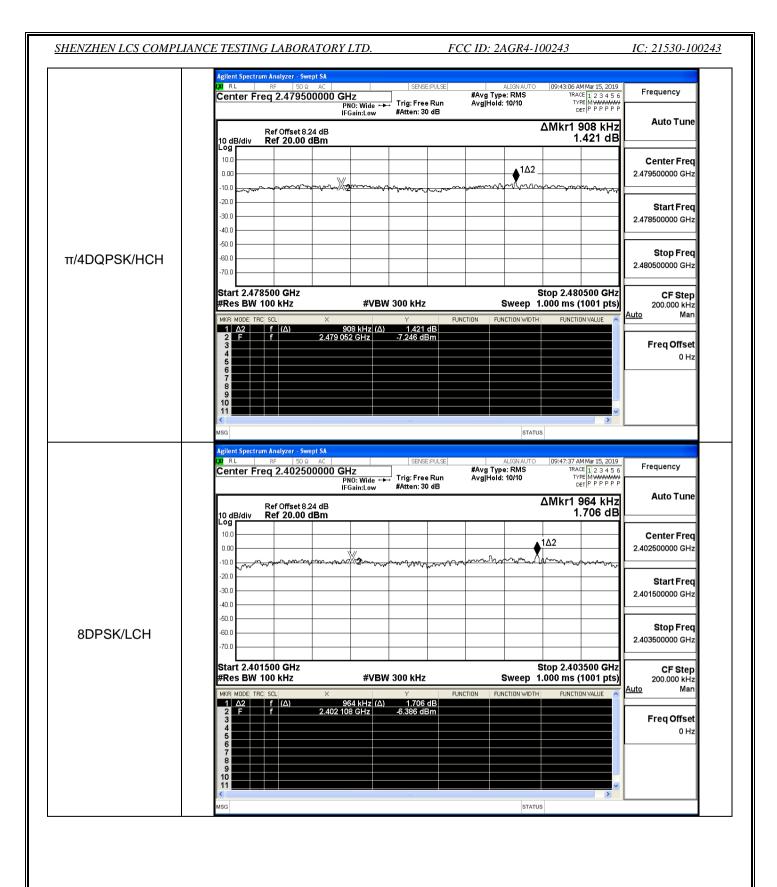
A.3 Carrier Frequency Separation

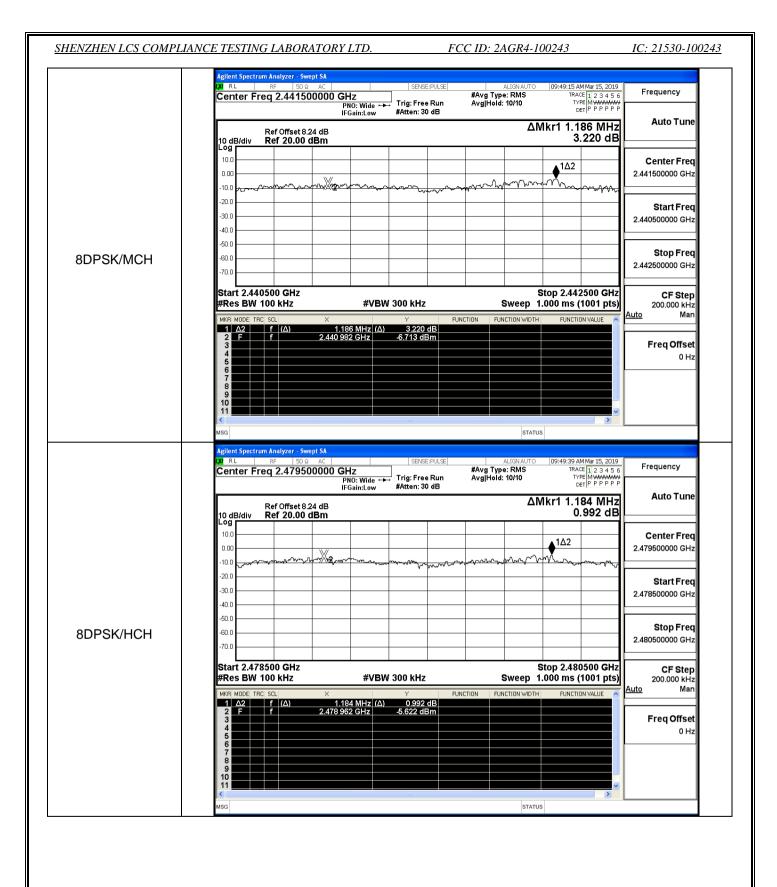
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	1.151	0.683	PASS
GFSK	MCH	0.874	0.683	PASS
	HCH	1.068	0.683	PASS
	LCH	1.220	0.873	PASS
π/4DQPSK	MCH	1.134	0.873	PASS
	НСН	0.908	0.873	PASS
	LCH	0.964	0.865	PASS
8DPSK	PSK MCH 1.186		0.865	PASS
	HCH	1.184	0.865	PASS





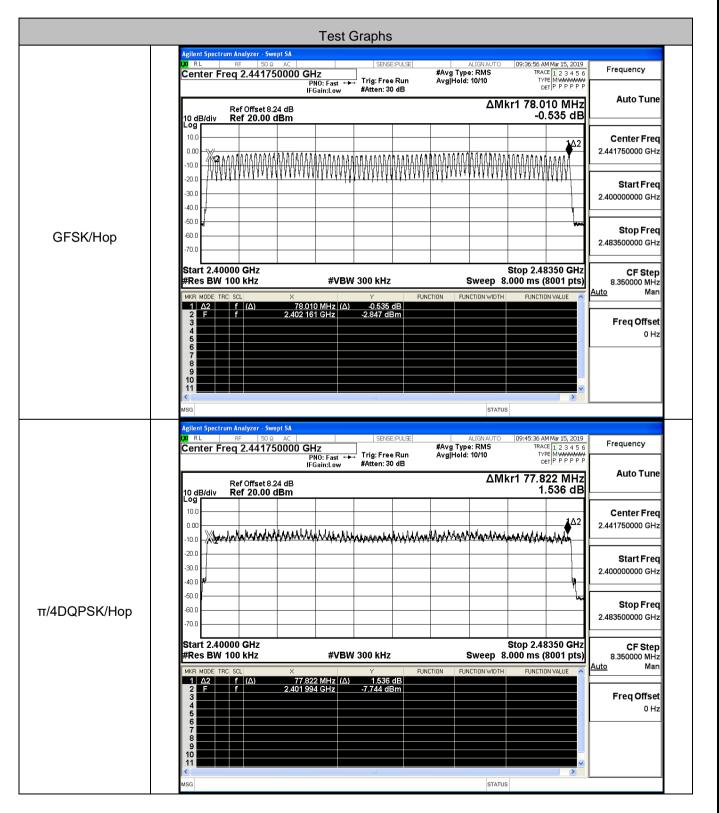






A.4 Hopping Channel Number

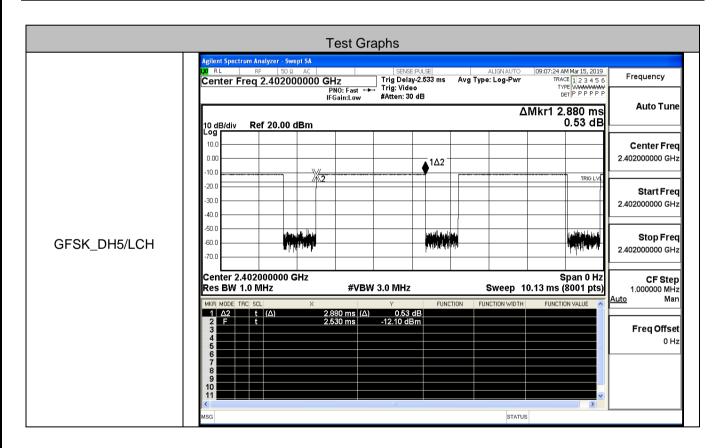
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS
8DPSK	Нор	79	>=15	PASS

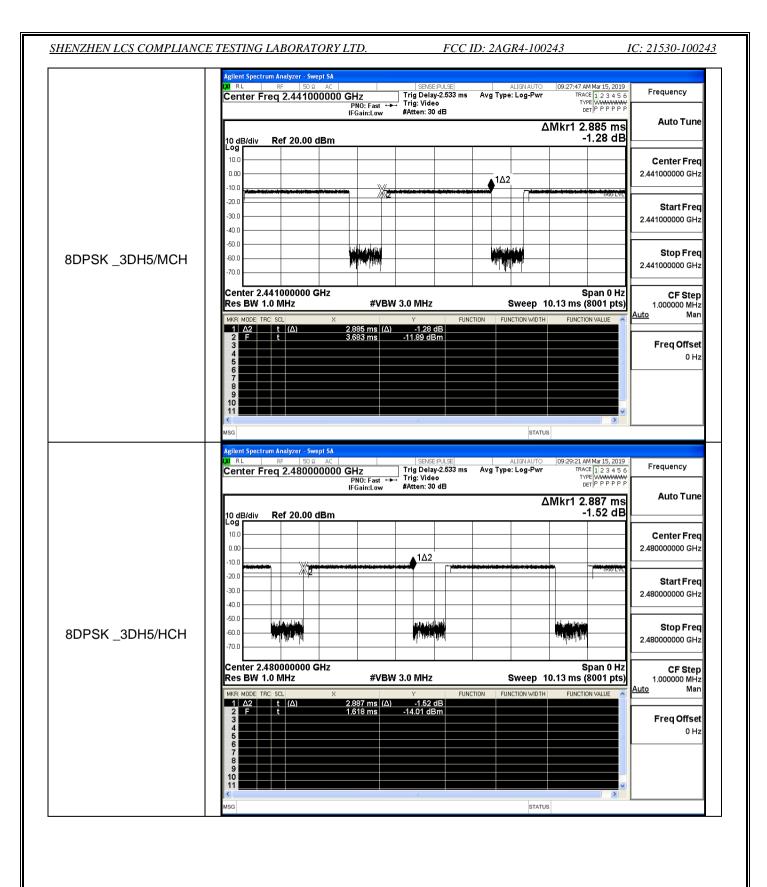


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A.5 Dwell Time

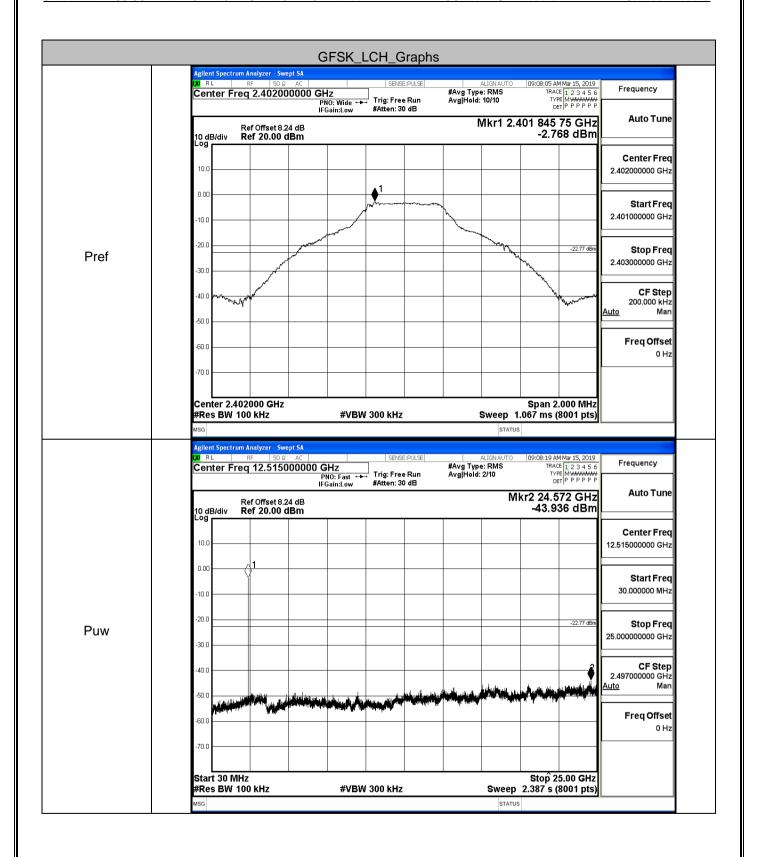
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
	DH5	LCH	2.88	106.7	0.307	0.4	PASS
GFSK	GFSK DH5 MC		2.88	106.7	0.307	0.4	PASS
	DH5 HCH		2.88	106.7	0.307	0.4	PASS
	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
π/4DQPSK	DQPSK 2DH5 MCH		2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	2.88	106.7	0.307	0.4	PASS
8DPSK	3DH5	LCH	2.89	106.7	0.308	0.4	PASS
	3DH5	MCH	2.89	106.7	0.308	0.4	PASS
	3DH5	HCH	2.89	106.7	0.308	0.4	PASS

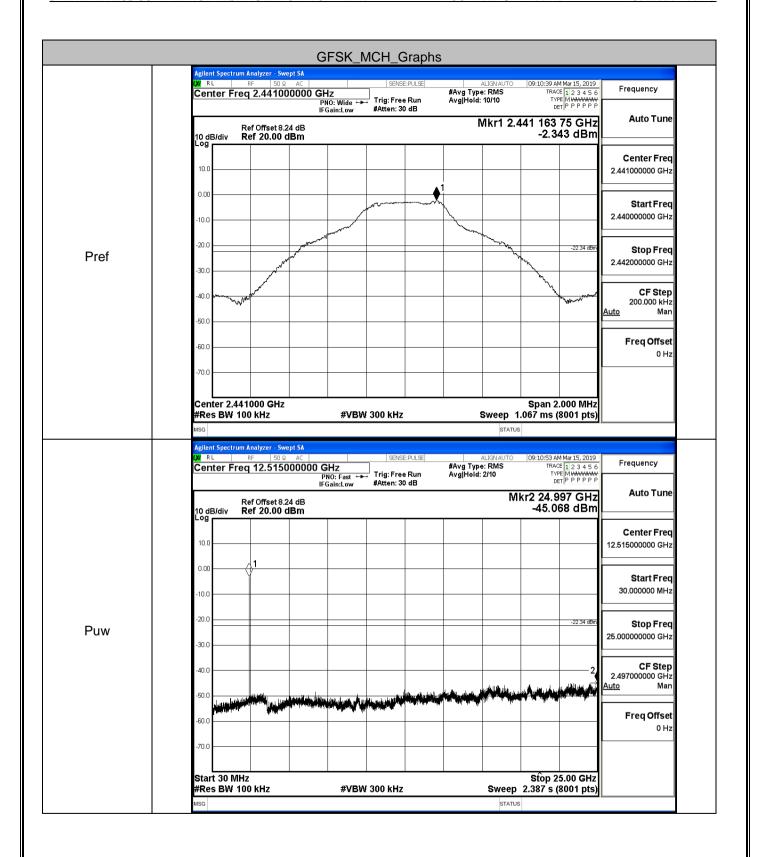


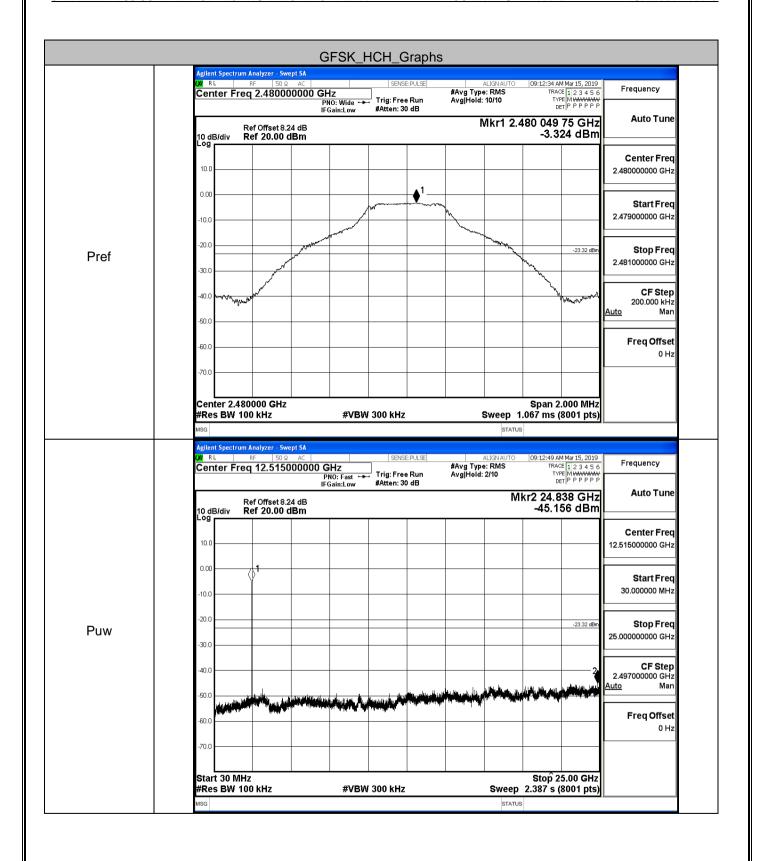


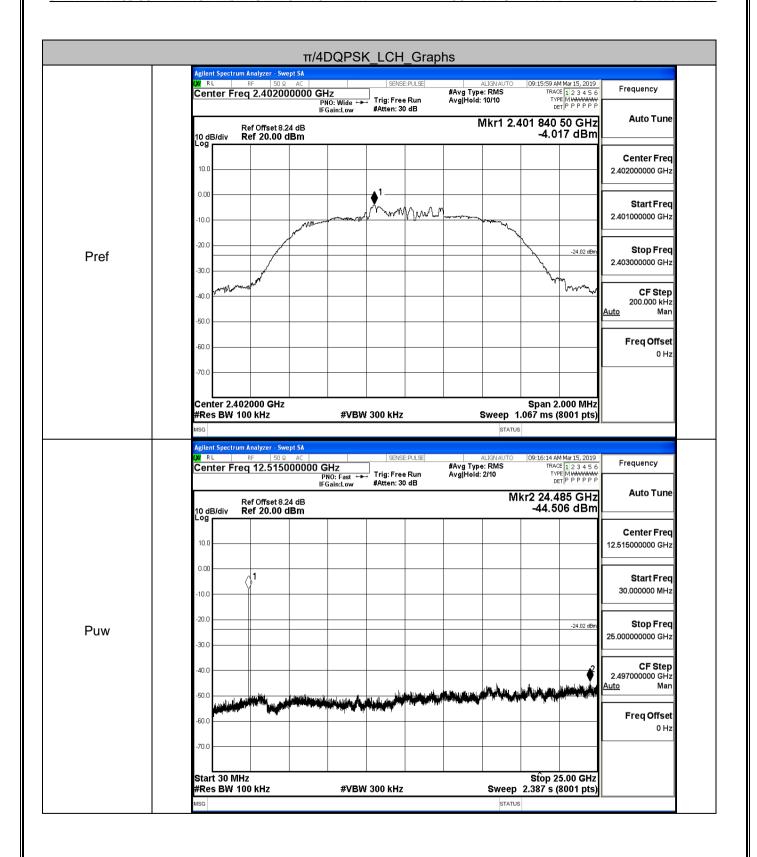
A.6 RF Conducted Spurious Emissions

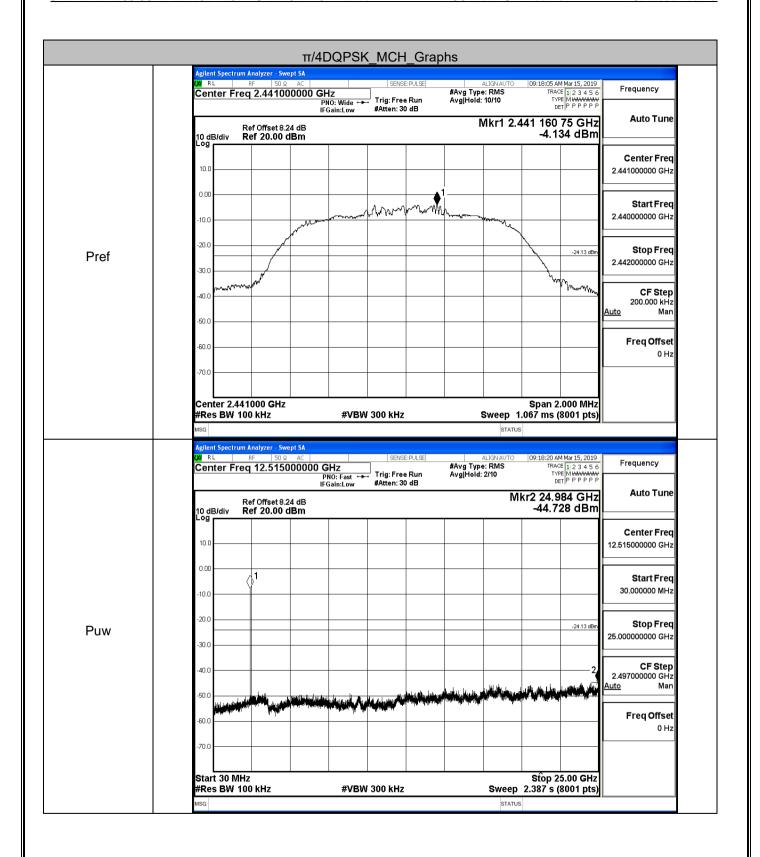
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	-2.768	-43.936	-22.768	PASS
GFSK	MCH	-2.343	-45.068	-22.343	PASS
	HCH	-3.324	-45.156	-23.324	PASS
	LCH	-4.017	-44.506	-24.017	PASS
π/4DQPSK	MCH	-4.134	-44.728	-24.134	PASS
	HCH	-3.863	-44.911	-23.863	PASS
8DPSK	LCH	-4.009	-44.857	-24.009	PASS
	MCH	-3.434	-44.270	-23.434	PASS
	НСН	-4.041	-44.356	-24.041	PASS

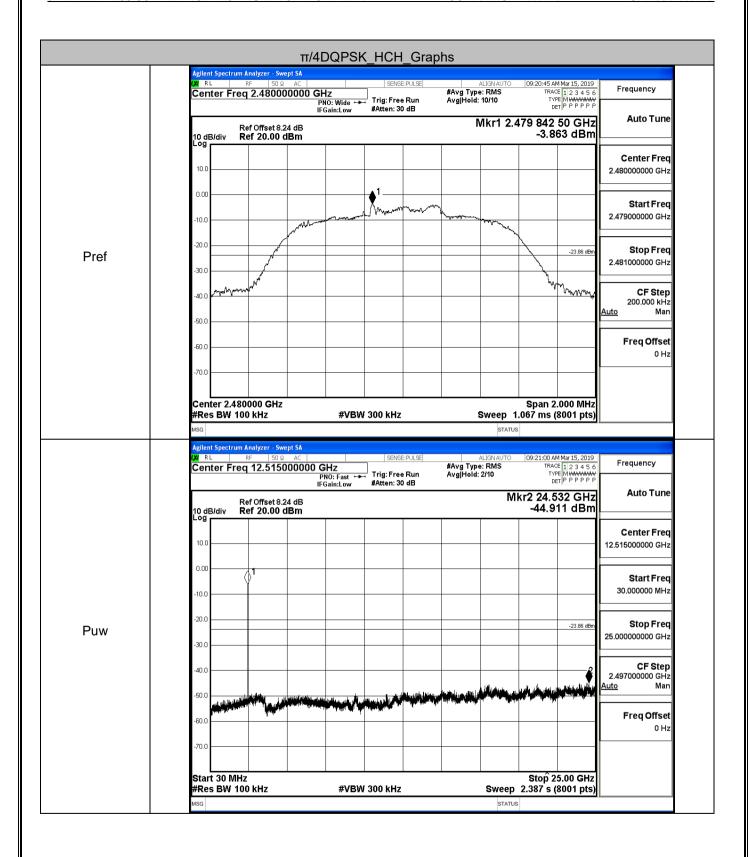


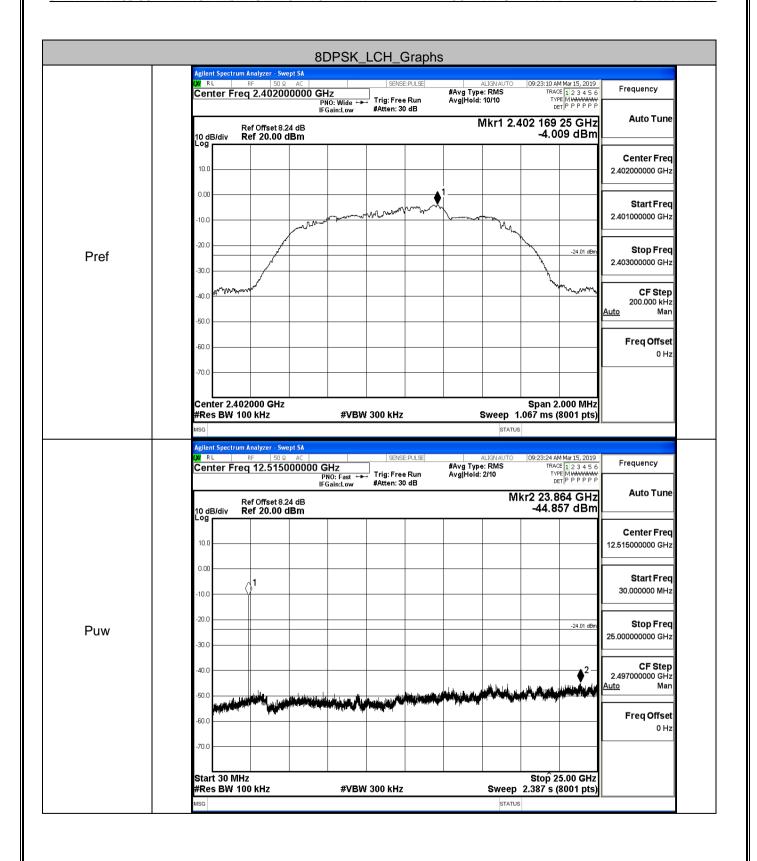


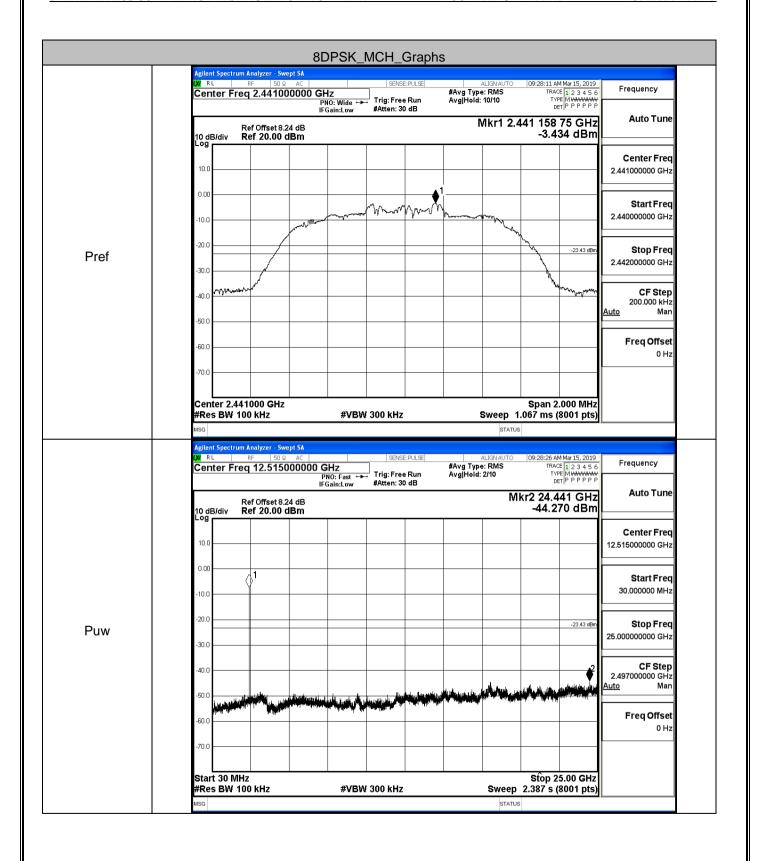


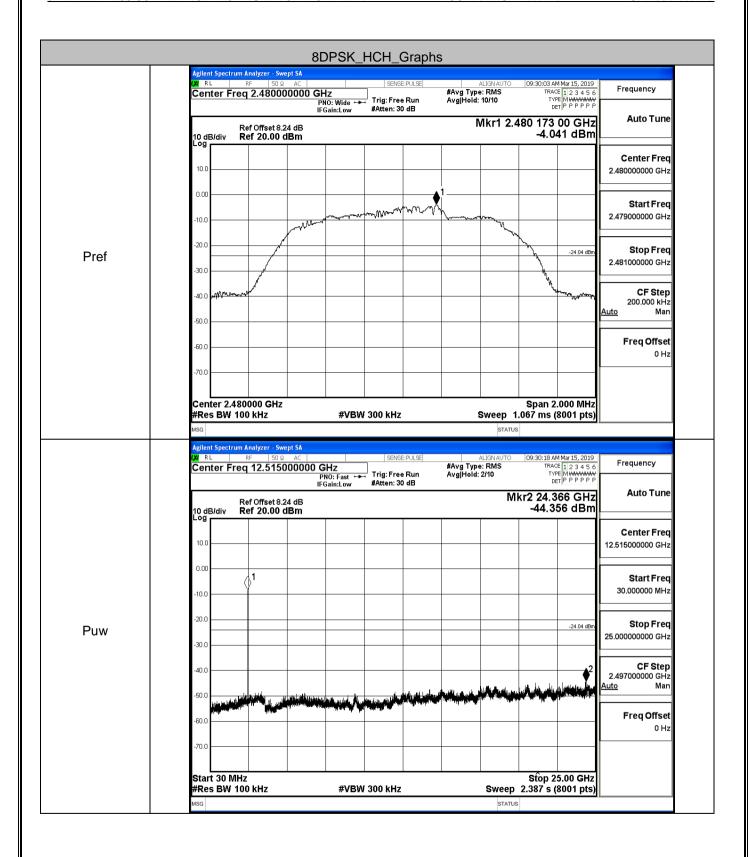






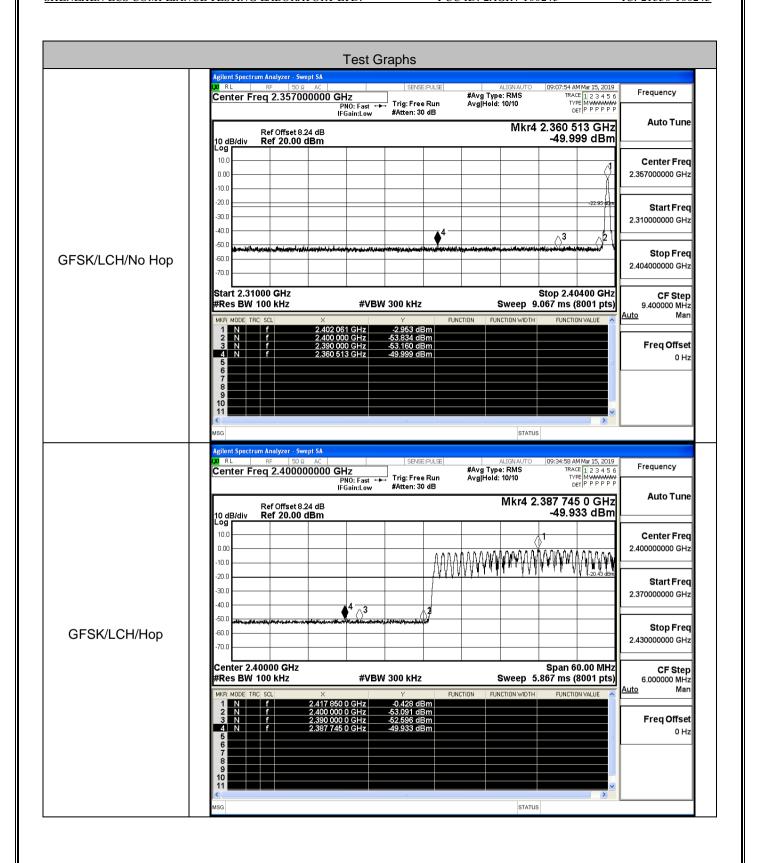






A.7 Band-edge for RF Conducted Emissions

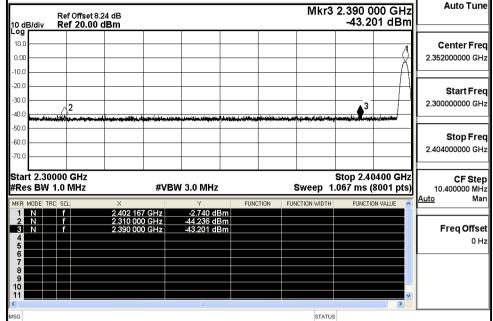
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict	
			-2.953	Off	-49.999	-22.95	PASS	
2-21/	LCH	2402	-0.428	On	-49.933	-20.43	PASS	
GFSK	нсн	2480	-2.861	Off	-50.328	-22.86	PASS	
			-0.451	On	-49.194	-20.45	PASS	
	LCH			-4.417	Off	-50.221	-24.42	PASS
		2402	-2.010	On	-49.355	-22.01	PASS	
π/4DQPSK	нсн		-3.770	Off	-49.855	-23.77	PASS	
		2480	-1.953	On	-47.660	-21.95	PASS	
			-4.029	Off	-49.880	-24.03	PASS	
	LCH	2402	-1.908	On	-49.372	-21.91	PASS	
8DPSK			-3.850	Off	-49.847	-23.85	PASS	
	HCH	2480	-1.663	On	-48.884	-21.66	PASS	



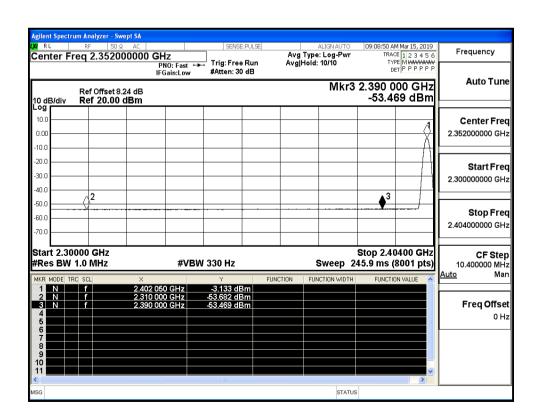
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-44.24	2.0	0	51.02	PEAK	74	PASS
	Off	2310.0	-53.68	2.0	0	41.58	AV	54	PASS
	Off	2390.0	-43.20	2.0	0	52.06	PEAK	74	PASS
	Off	2390.0	-53.47	2.0	0	41.79	AV	54	PASS
GFSK	Off	2483.5	-41.89	2.0	0	53.37	PEAK	74	PASS
	Off	2483.5	-53.21	2.0	0	42.05	AV	54	PASS
	Off	2500.0	-41.86	2.0	0	53.40	PEAK	74	PASS
	Off	2500.0	-53.08	2.0	0	42.18	AV	54	PASS
	Off	2310.0	-43.58	2.0	0	51.67	PEAK	74	PASS
	Off	2310.0	-53.68	2.0	0	41.58	AV	54	PASS
	Off	2390.0	-43.00	2.0	0	52.26	PEAK	74	PASS
	Off	2390.0	-53.46	2.0	0	41.80	AV	54	PASS
π/4DQPSK	Off	2483.5	-43.28	2.0	0	51.98	PEAK	74	PASS
	Off	2483.5	-53.18	2.0	0	42.08	AV	54	PASS
	Off	2500.0	-42.89	2.0	0	52.37	PEAK	74	PASS
	Off	2500.0	-53.08	2.0	0	42.18	AV	54	PASS
	Off	2310.0	-43.20	2.0	0	52.06	PEAK	74	PASS
	Off	2310.0	-53.69	2.0	0	41.57	AV	54	PASS
	Off	2390.0	-41.36	2.0	0	53.90	PEAK	74	PASS
	Off	2390.0	-53.41	2.0	0	41.84	AV	54	PASS
8DPSK	Off	2483.5	-42.63	2.0	0	52.63	PEAK	74	PASS
	Off	2483.5	-53.09	2.0	0	42.17	AV	54	PASS
	Off	2500.0	-43.56	2.0	0	51.70	PEAK	74	PASS
	Off	2500.0	-52.99	2.0	0	42.27	AV	54	PASS

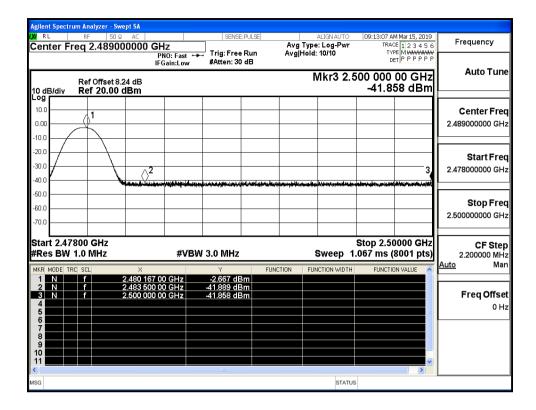




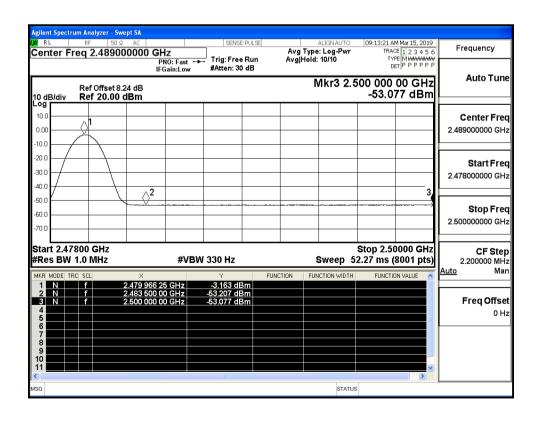
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



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

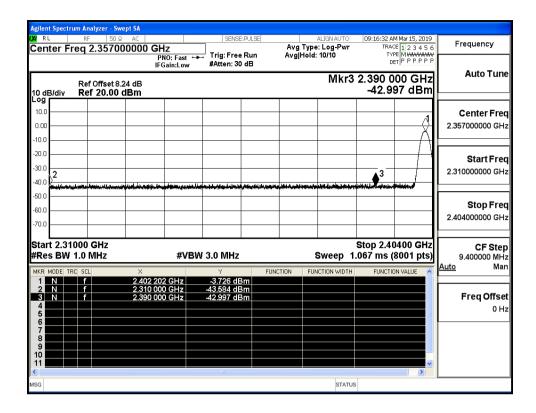


Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)

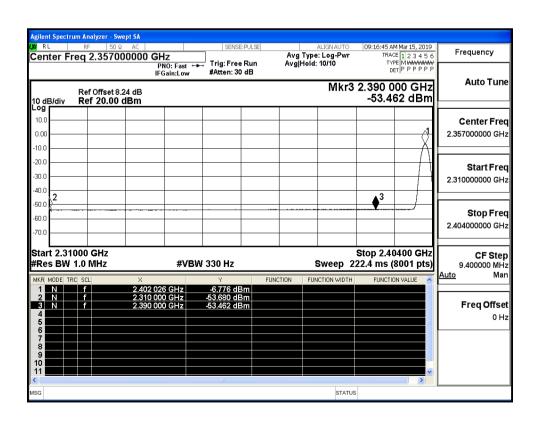


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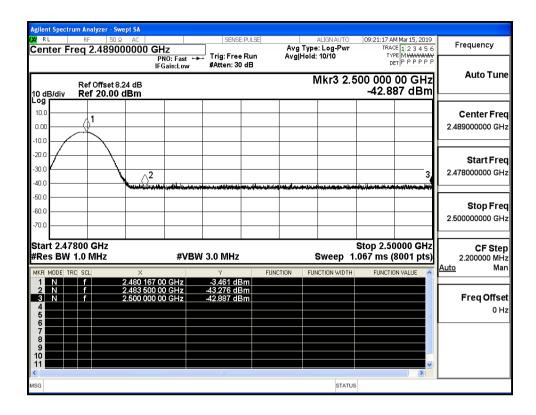
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



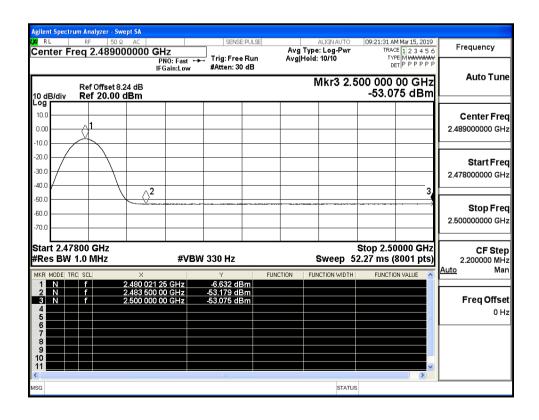
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



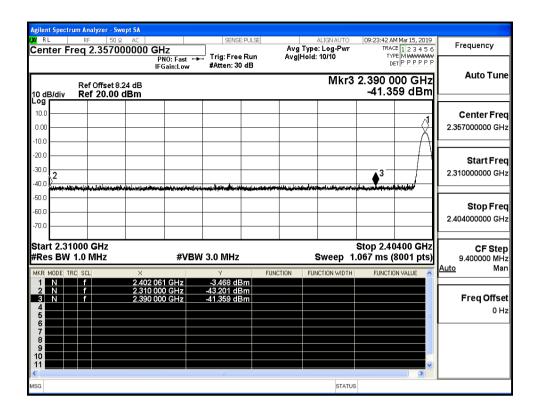
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



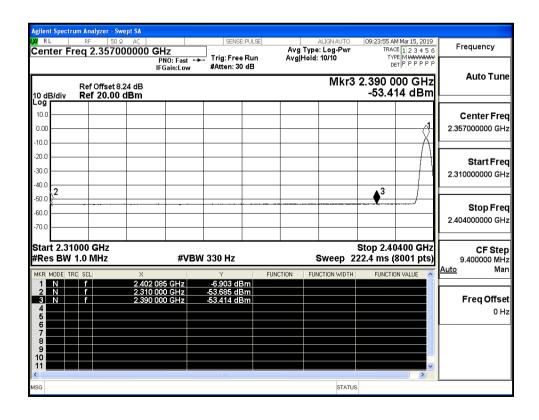
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



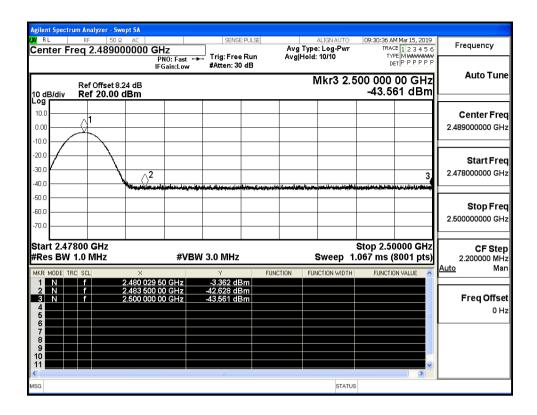
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



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)

