# Appendix A

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

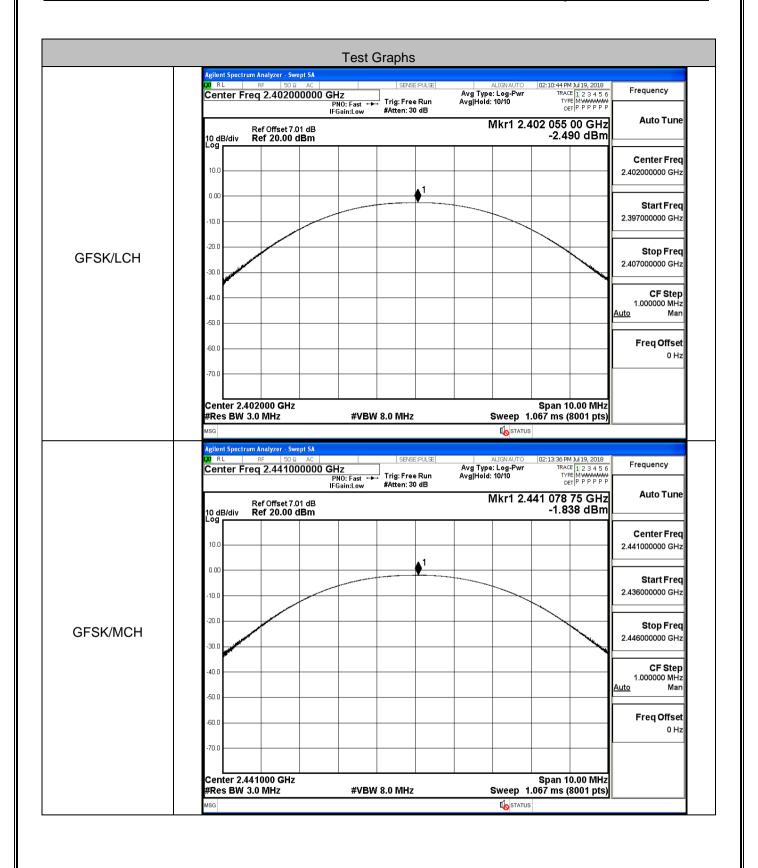
**Product Name: Metallic Wireless Neckrest Earbuds** Trade Mark: N/A Test Model: LG-BT800

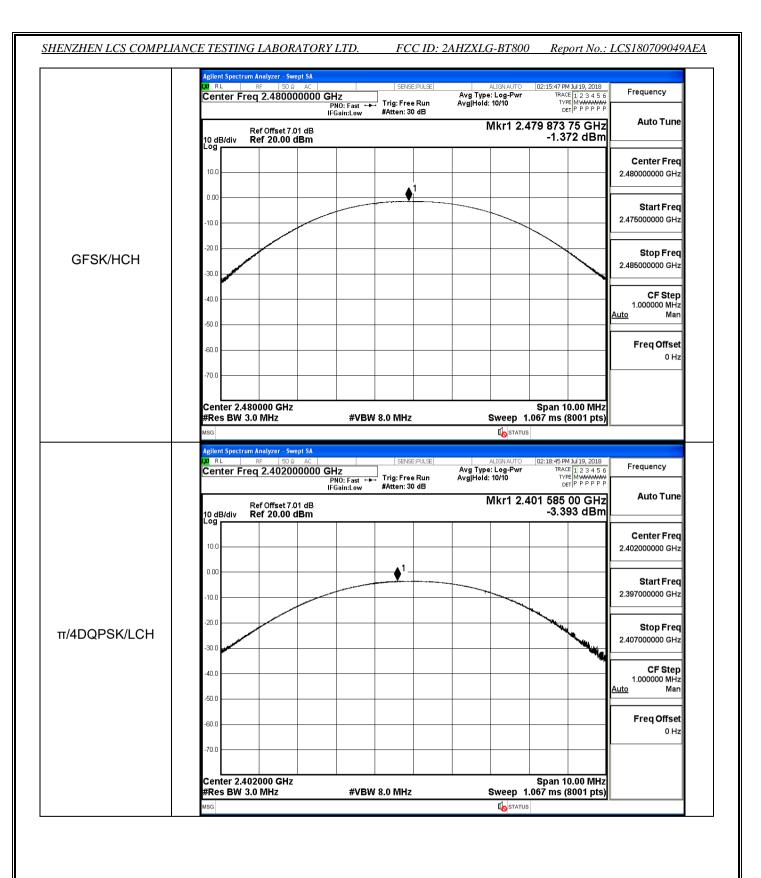
#### **Environmental Conditions**

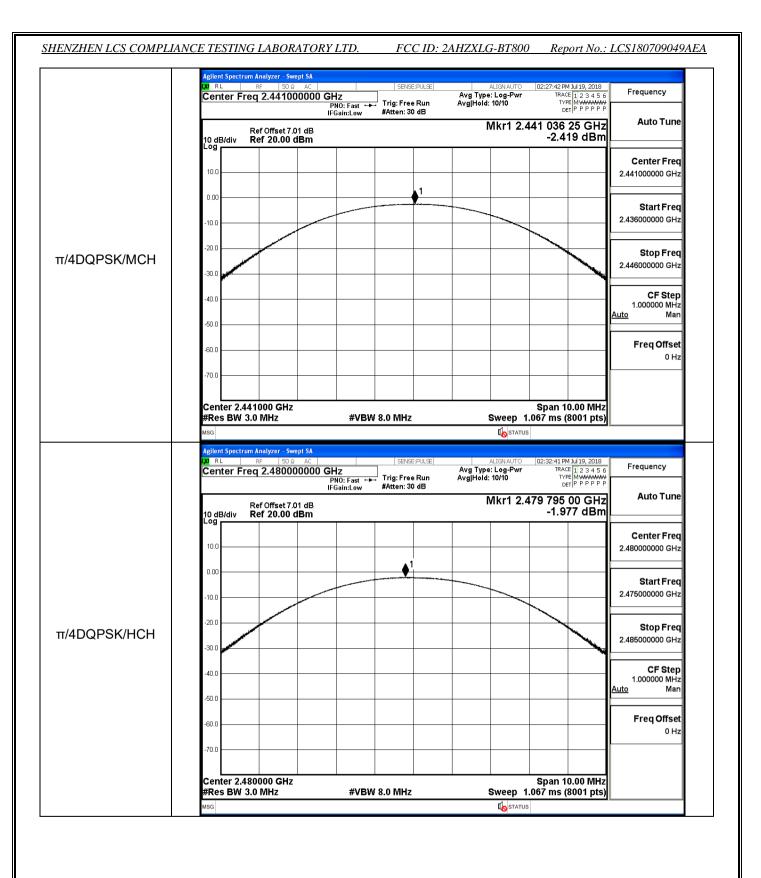
•	
Temperature:	23.2 ° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond.Lu
Supervised by:	Jayden.Zhuo

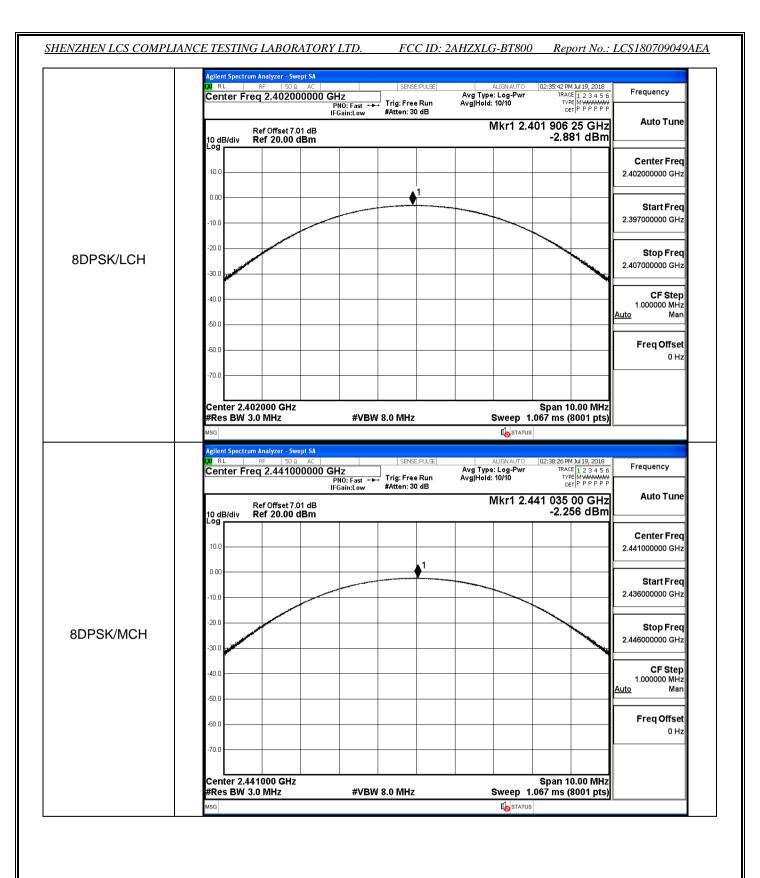
### A.1 Maximum Conducted Peak Output Power

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	-2.490	30	PASS
GFSK	MCH	-1.838	30	PASS
	НСН	-1.372	30	PASS
	LCH	-3.393	21	PASS
π/4DQPSK	MCH	-2.419	21	PASS
	НСН	-1.977	21	PASS
	LCH	-2.881	21	PASS
8DPSK	MCH	-2.256	21	PASS
	HCH	-1.837	21	PASS



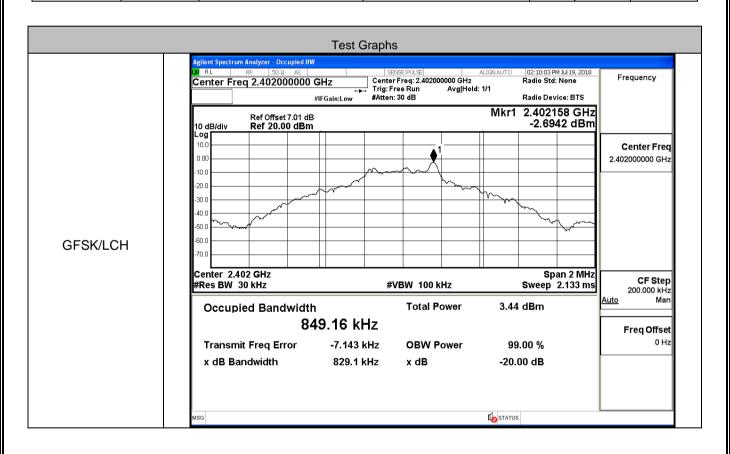


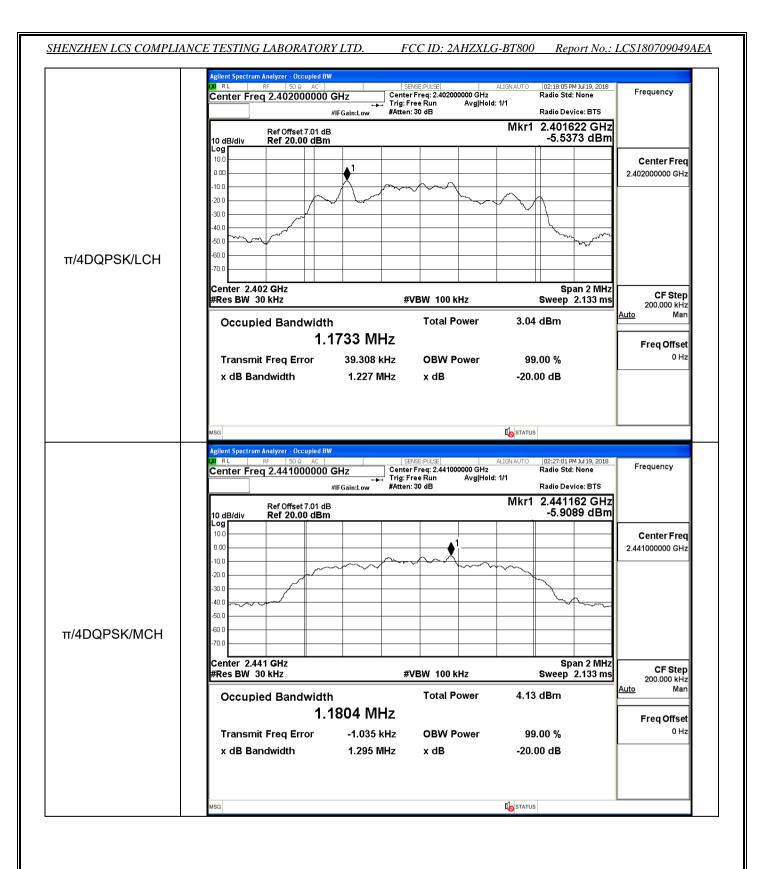


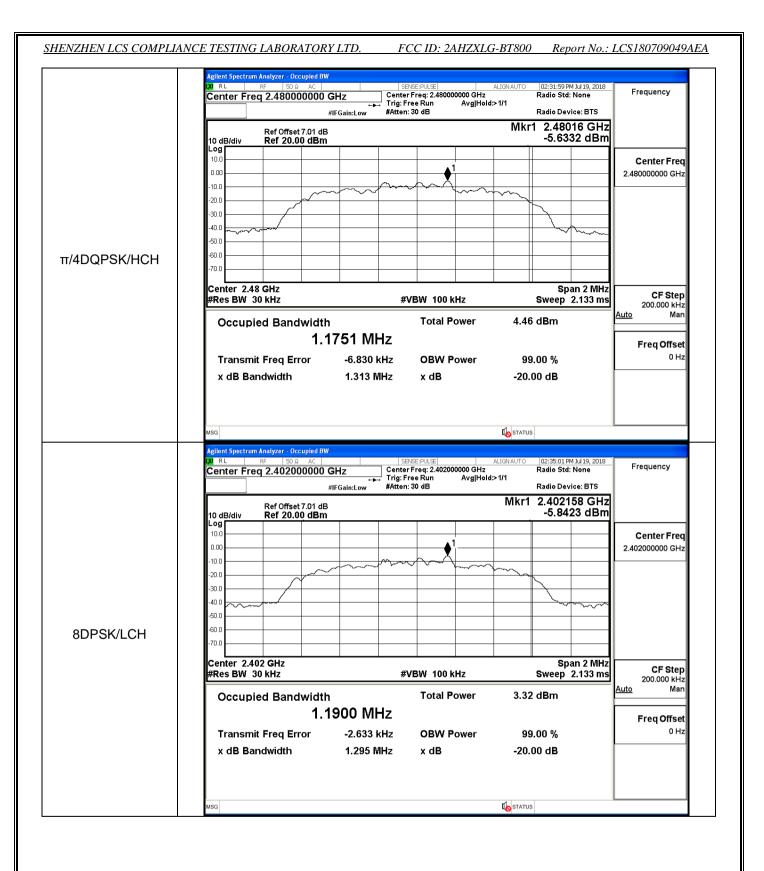


#### A.2 20dB Bandwidth

Mode	Channel.	99% Bandwidth [MHz]	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	0.84916	0.8291	Not Specified	PASS
GFSK	MCH	0.85652	0.8239	Not Specified	PASS
	HCH	0.85451	0.8278	Not Specified	PASS
	LCH	1.1733	1.2270	Not Specified	PASS
π/4DQPSK	MCH	1.1804	1.2950	Not Specified	PASS
	НСН	1.1751	1.3130	Not Specified	PASS
	LCH	1.1900	1.2950	Not Specified	PASS
8DPSK	MCH	1.1879	1.2990	Not Specified	PASS
	HCH	1.1872	1.2970	Not Specified	PASS

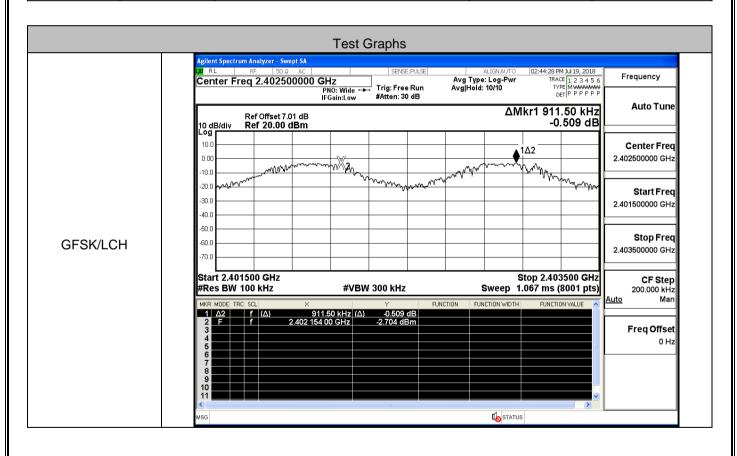






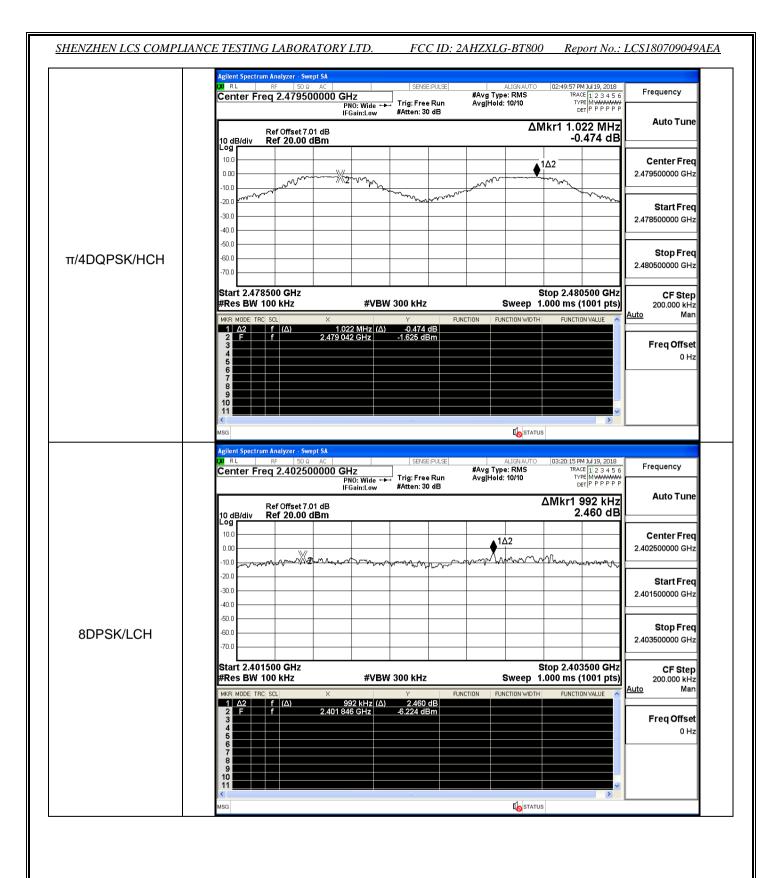
### **A.3 Carrier Frequency Separation**

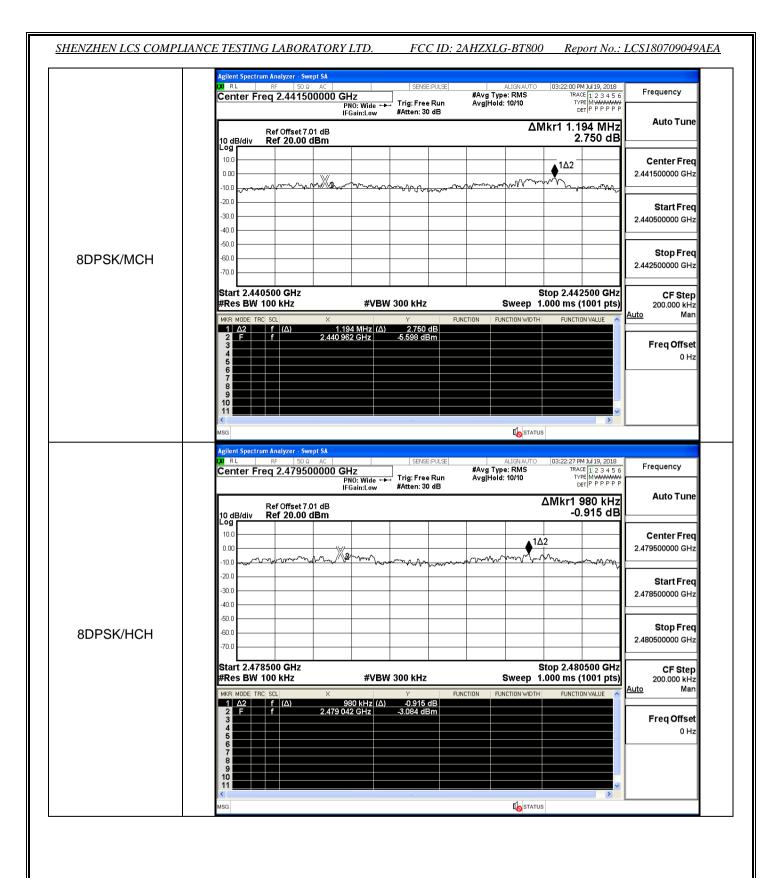
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	0.912	0.553	PASS
GFSK	MCH	1.192	0.553	PASS
	HCH	1.202	0.553	PASS
	LCH	1.230	0.875	PASS
π/4DQPSK	MCH	1.028	0.875	PASS
	HCH	1.022	0.875	PASS
	LCH	0.992	0.866	PASS
8DPSK	MCH	1.194	0.866	PASS
	HCH	0.980	0.866	PASS





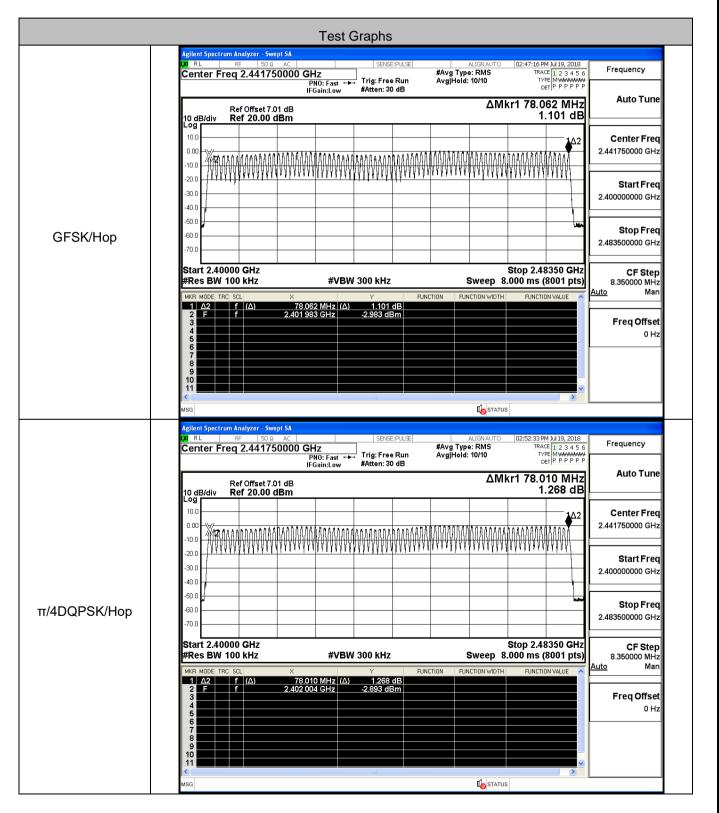


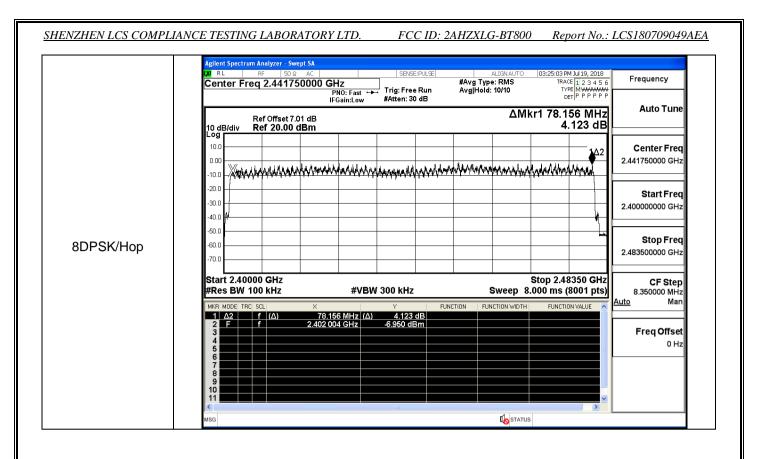




#### A.4 Hopping Channel Number

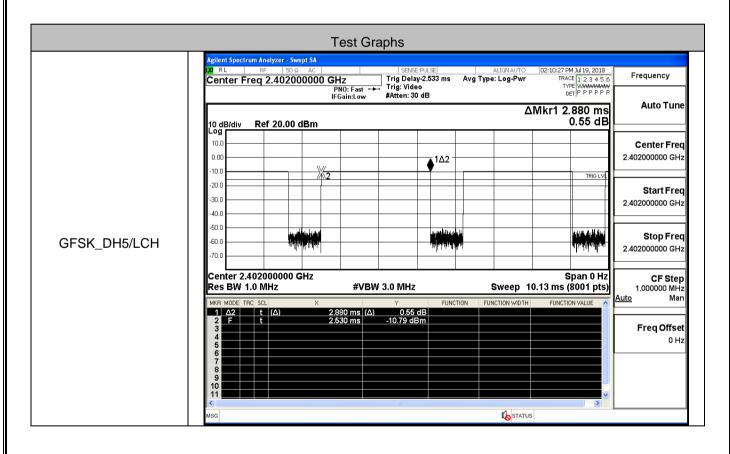
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS
8DPSK	Нор	79	>=15	PASS

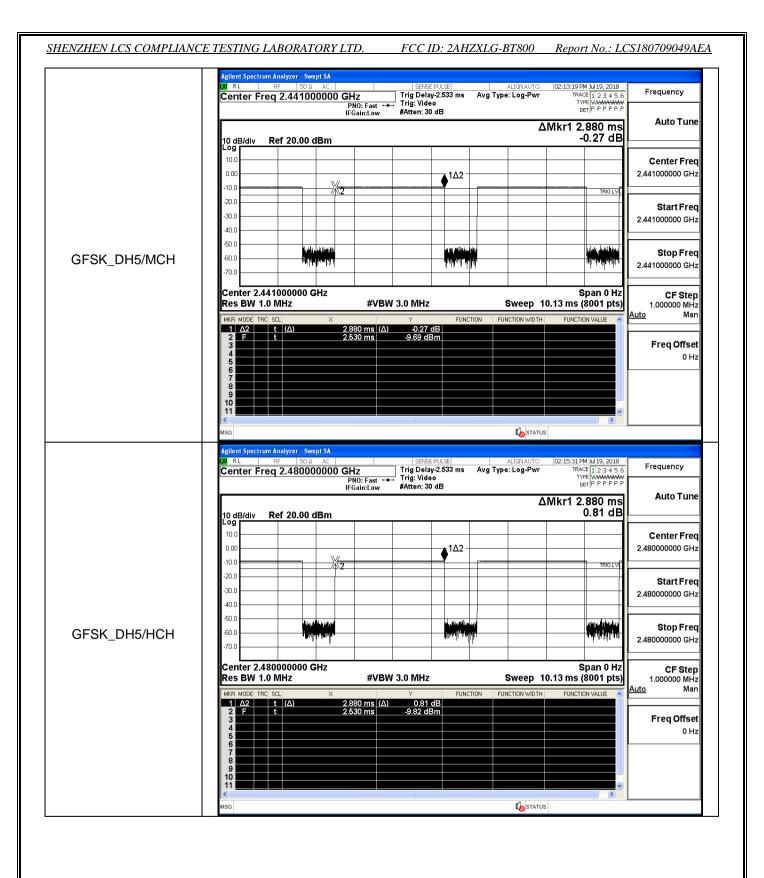


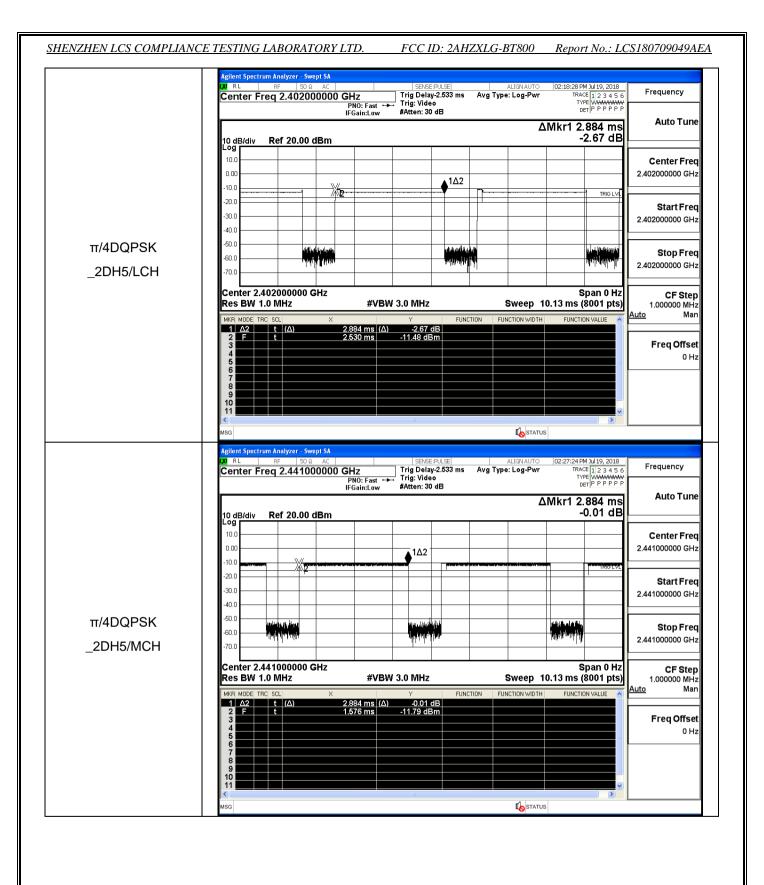


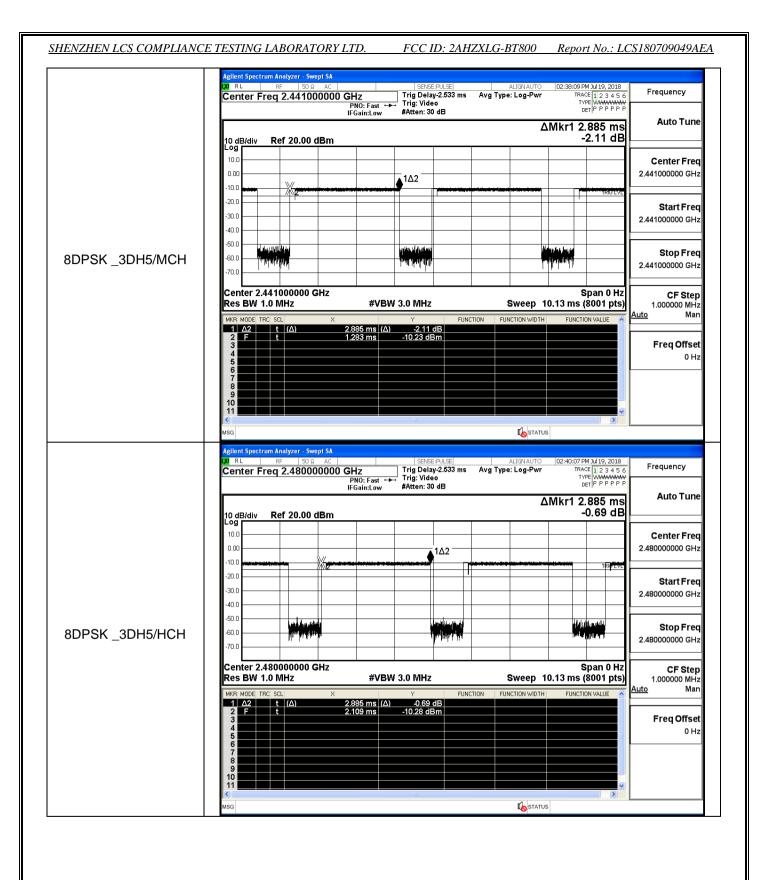
#### **A.5 Dwell Time**

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	MCH	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	2DH5	MCH	2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	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



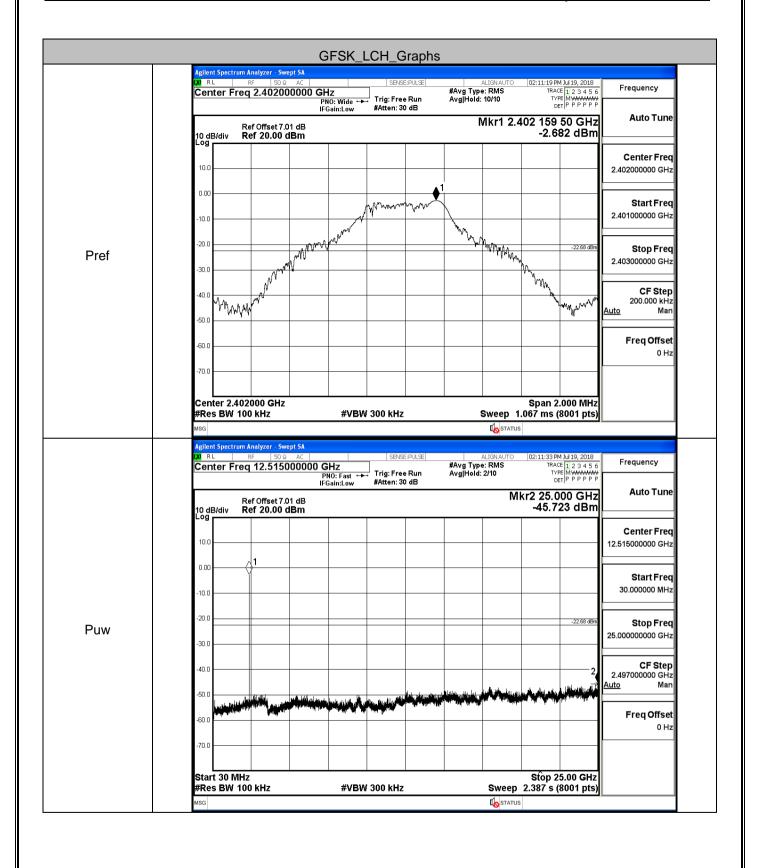


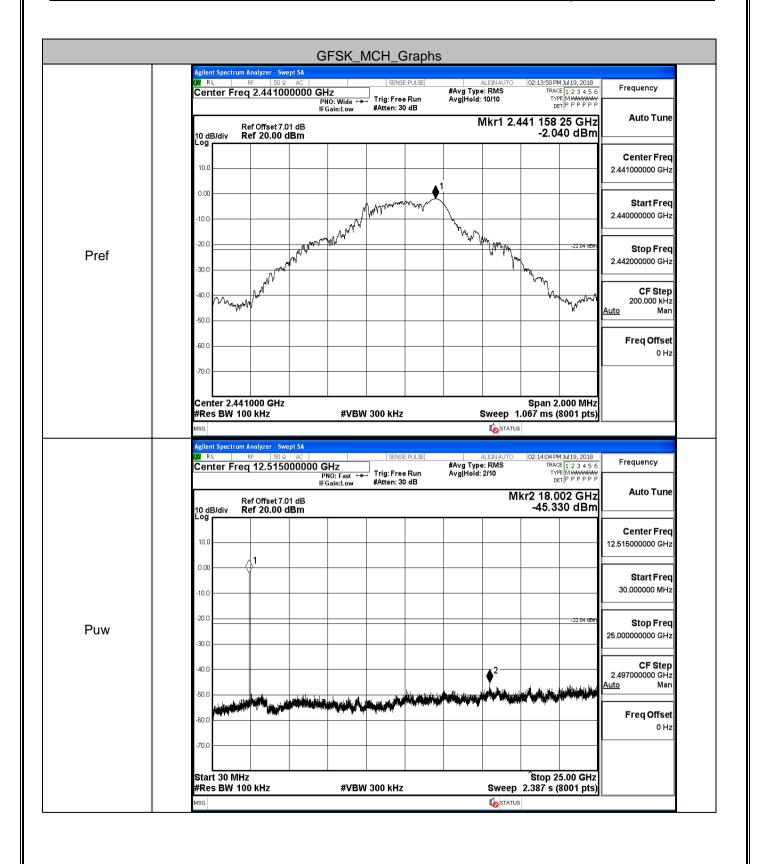


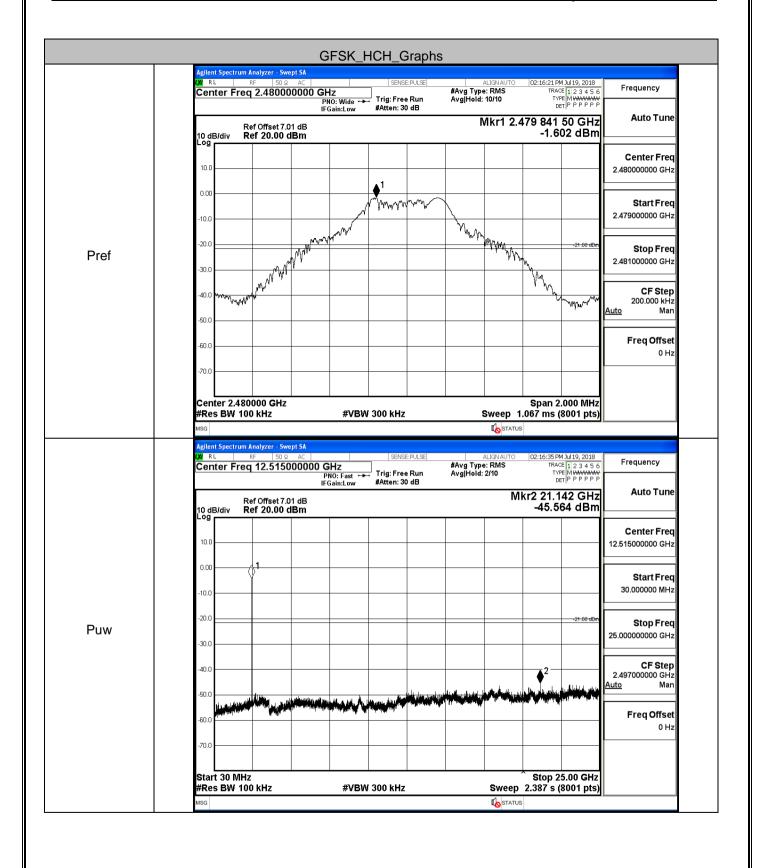


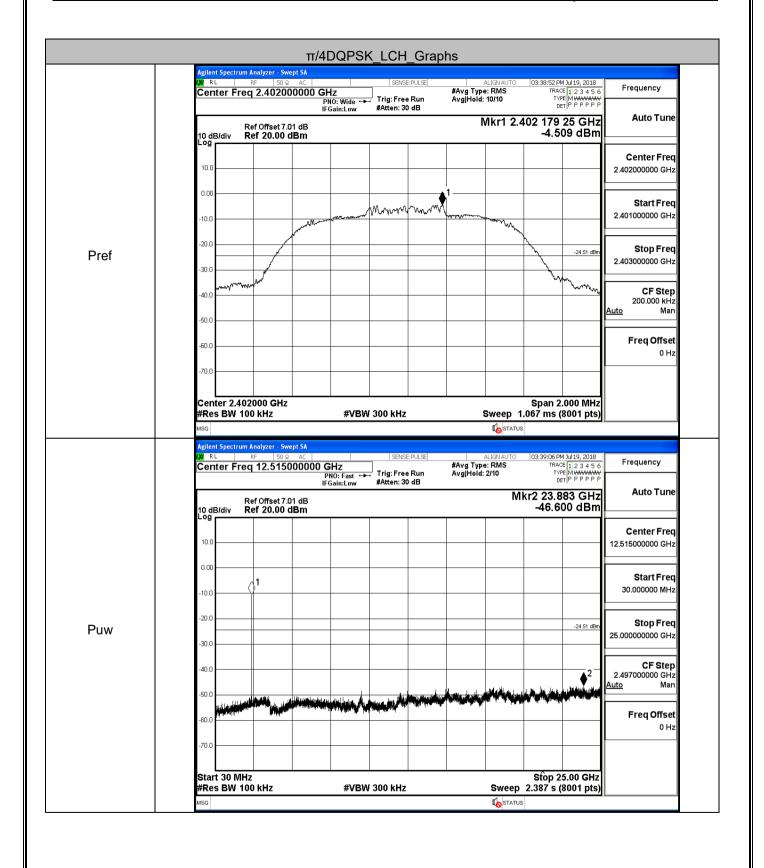
## A.6 RF Conducted Spurious Emissions

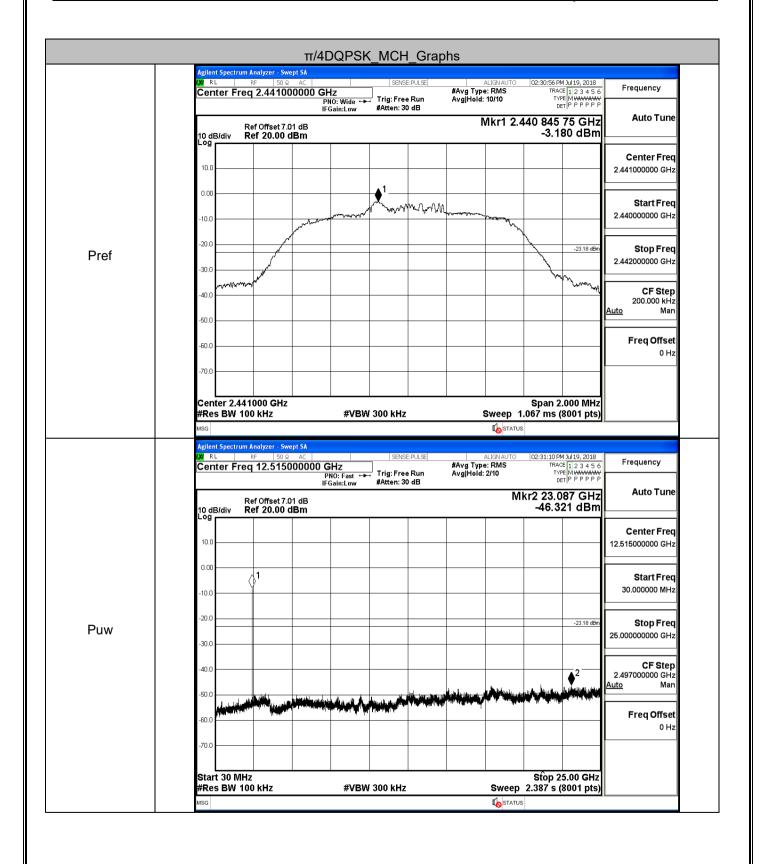
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	-2.682	-45.723	-22.682	PASS
GFSK	MCH	-2.04	-45.330	-22.040	PASS
	HCH	-1.602	-45.564	-21.602	PASS
	LCH	-4.509	-46.600	-24.509	PASS
π/4DQPSK	MCH	-3.18	-46.321	-23.180	PASS
	HCH	-2.953	-45.602	-22.953	PASS
	LCH	-3.947	-45.475	-23.947	PASS
8DPSK	MCH	-3.231	-46.347	-23.231	PASS
	HCH	-2.859	-45.290	-22.859	PASS

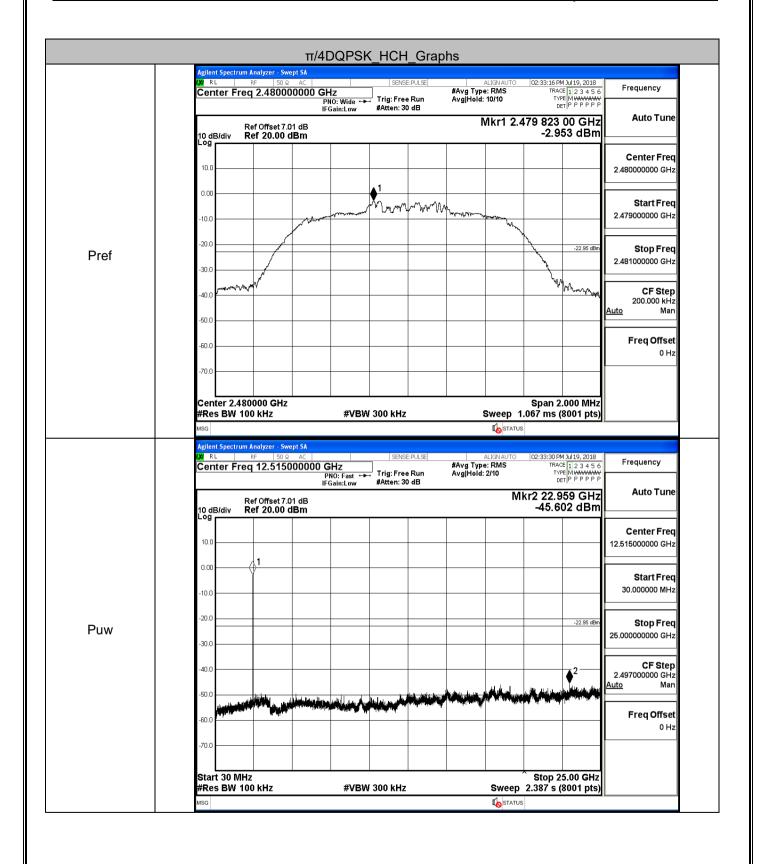


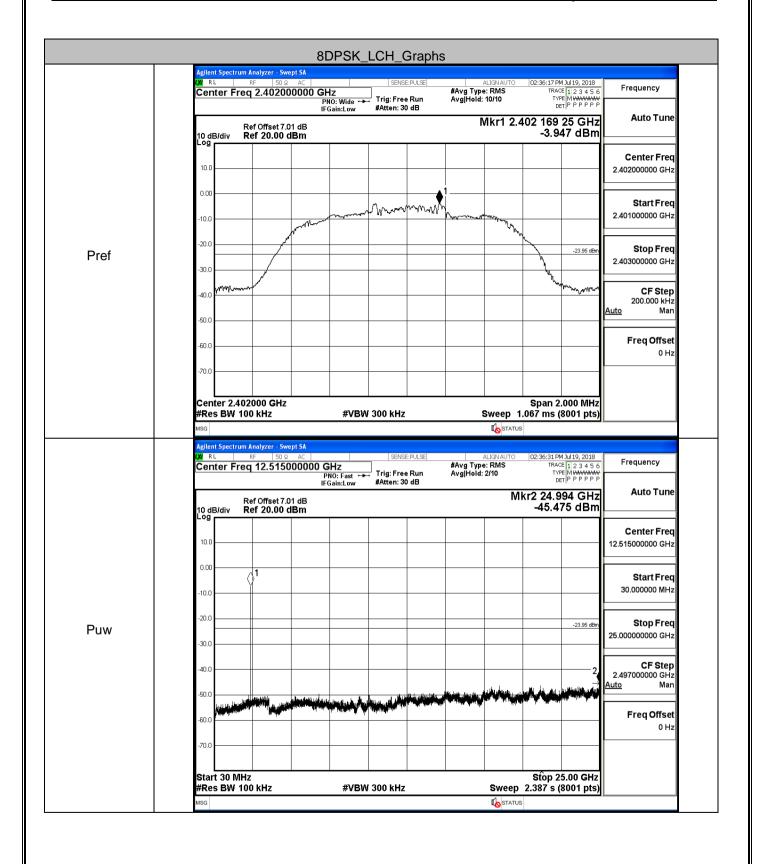


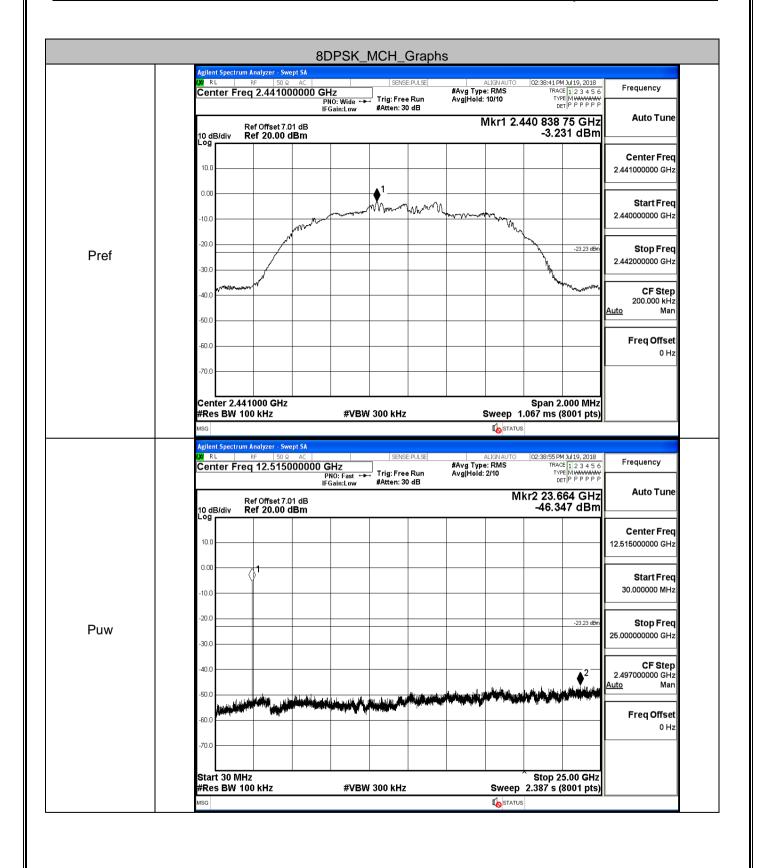


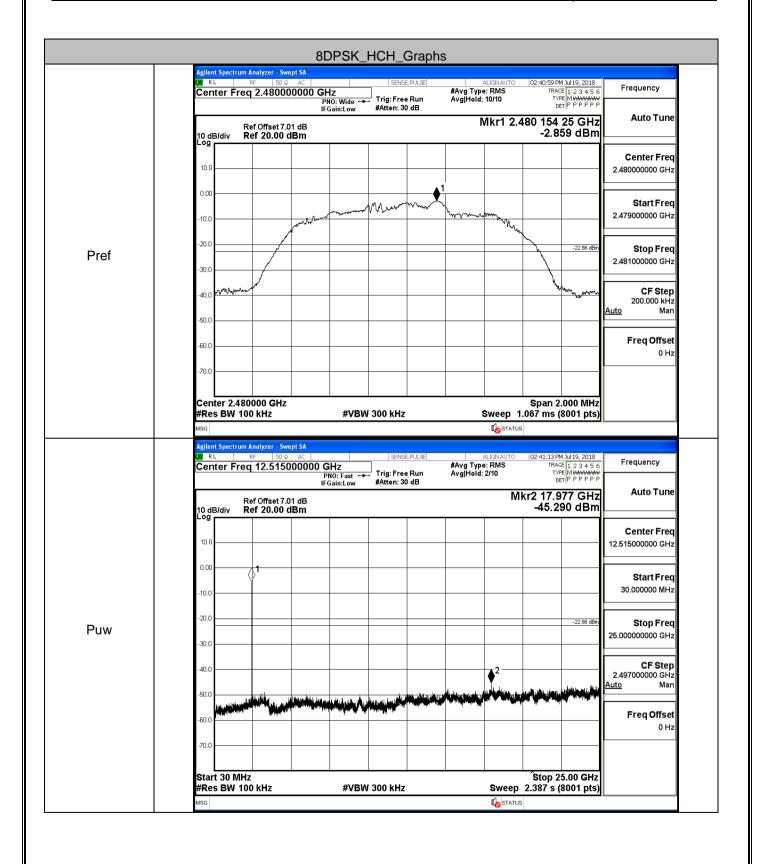






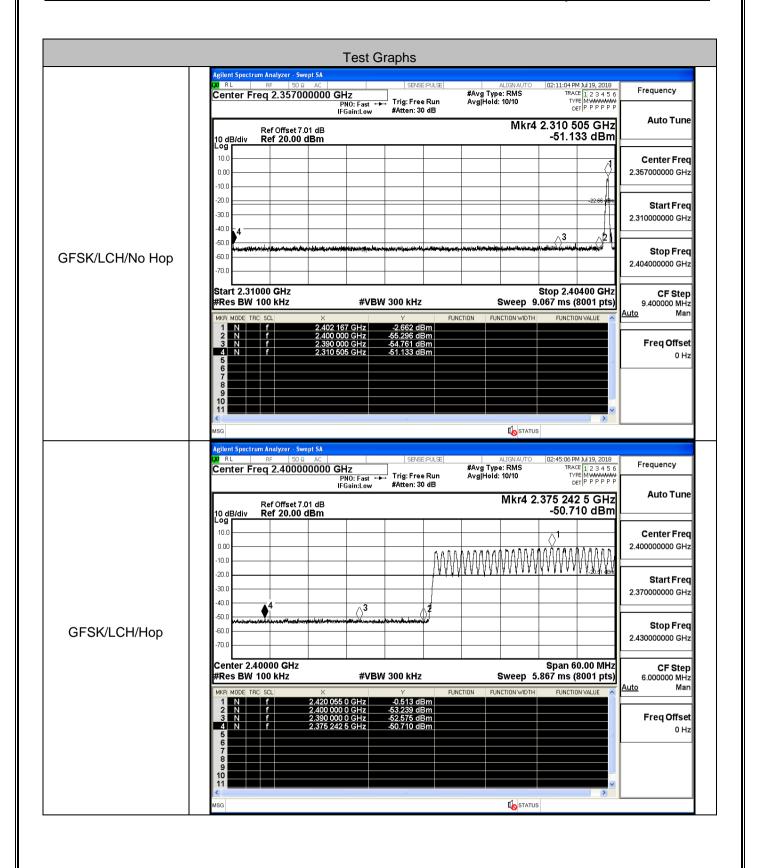


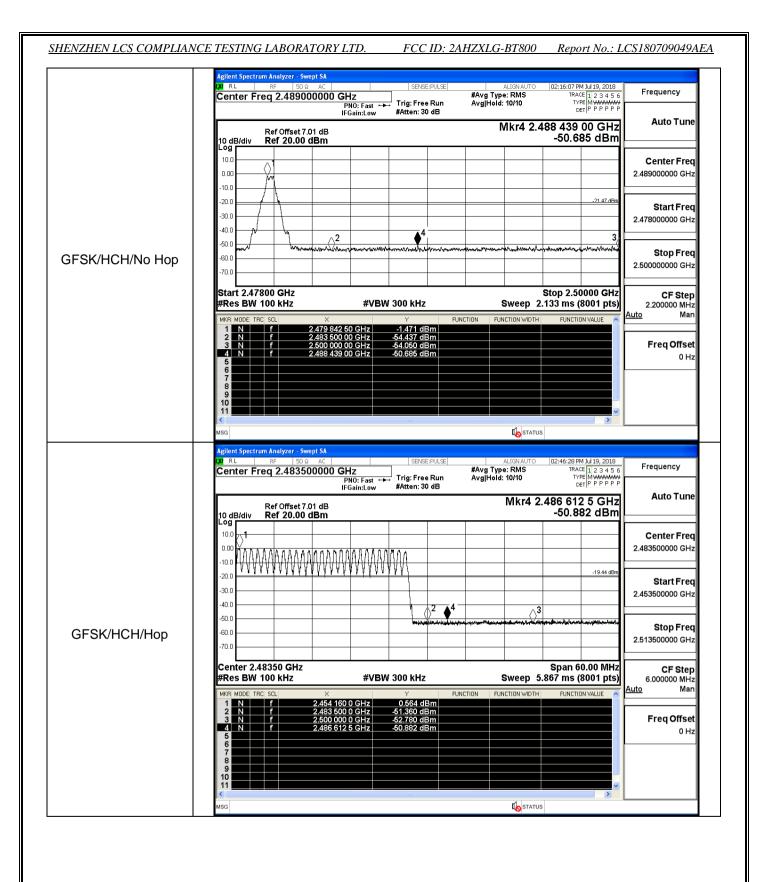


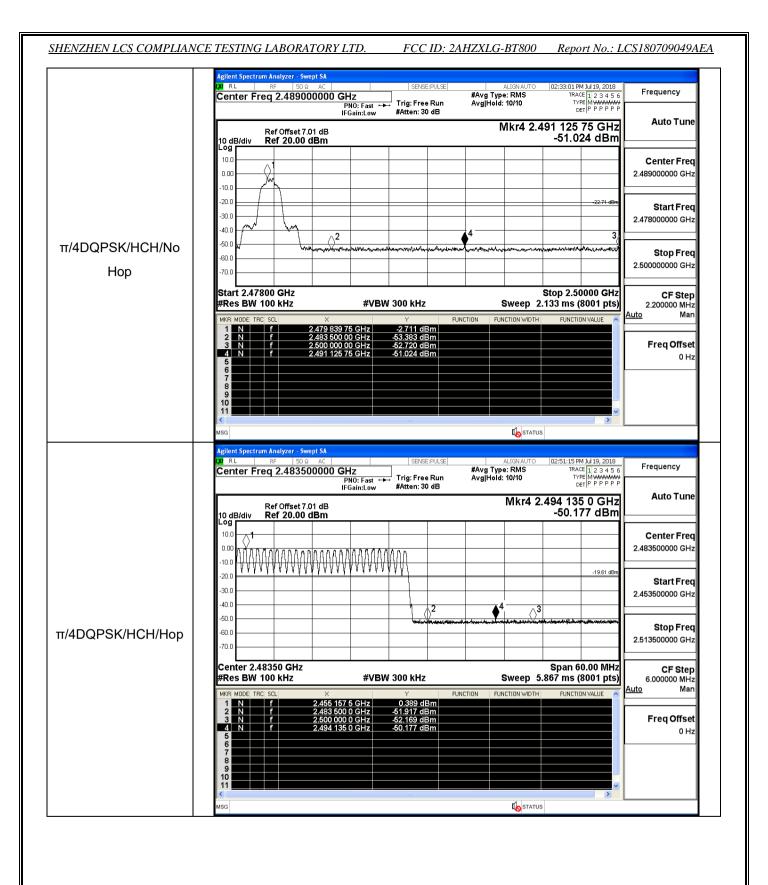


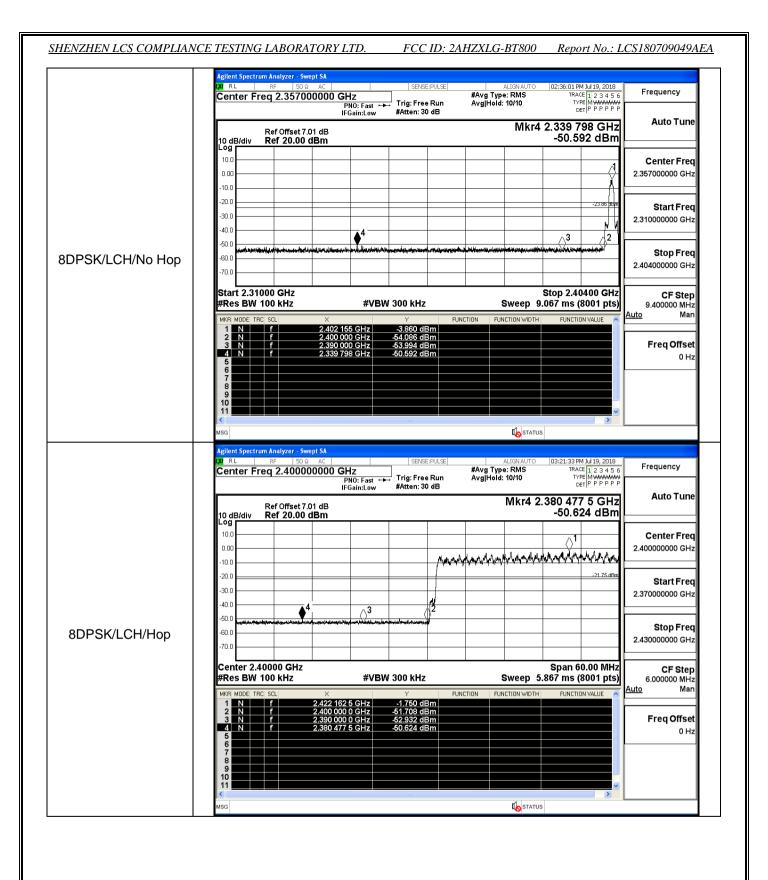
## A.7 Band-edge for RF Conducted Emissions

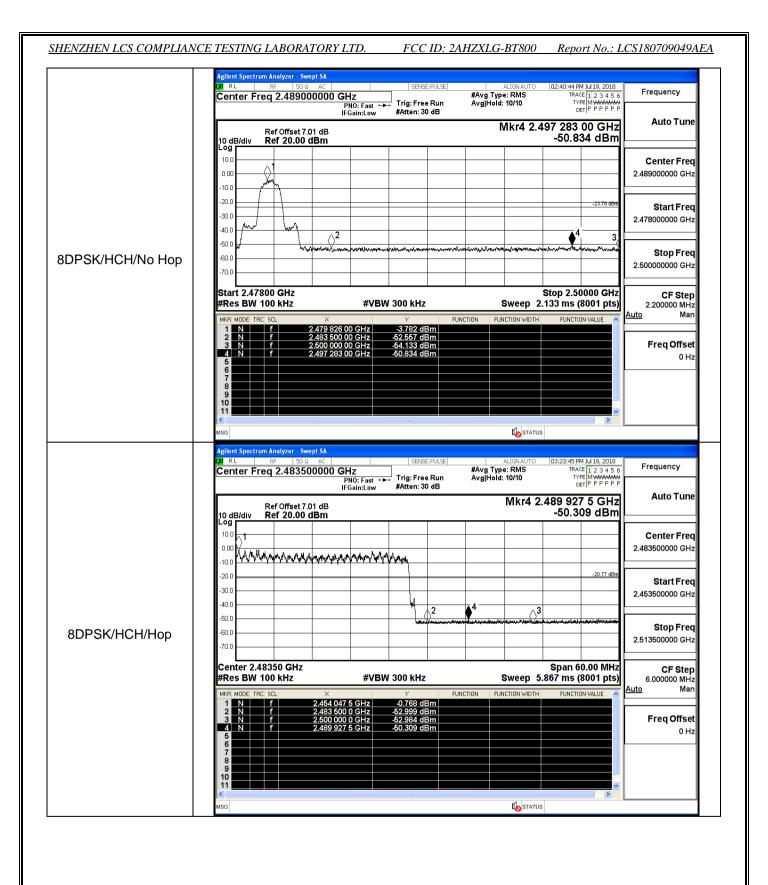
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
			-2.662	Off	-51.133	-22.66	PASS
0.501/	LCH	2402	-0.513	On	-50.710	-20.51	PASS
GFSK		2480	-1.471	Off	-50.685	-21.47	PASS
	HCH		0.564	On	-50.882	-19.44	PASS
	LCH	LCH 2402	-5.495	Off	-51.131	-25.5	PASS
			-0.065	On	-50.764	-20.07	PASS
π/4DQPSK	НСН		-2.711	Off	-51.024	-22.71	PASS
		2480	0.389	On	-50.177	-19.61	PASS
			-3.860	Off	-50.592	-23.86	PASS
	LCH	2402	-1.750	On	-50.624	-21.75	PASS
8DPSK			-3.782	Off	-50.834	-23.78	PASS
	HCH	2480	-0.768	On	-50.309	-20.77	PASS





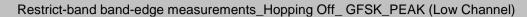


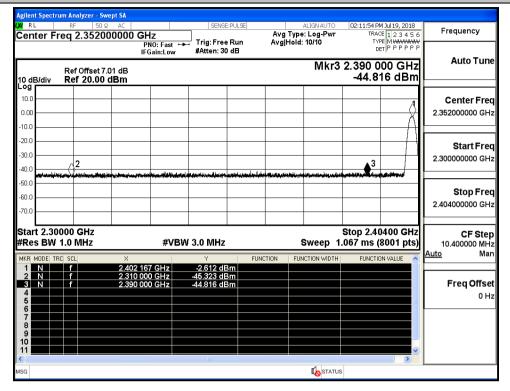




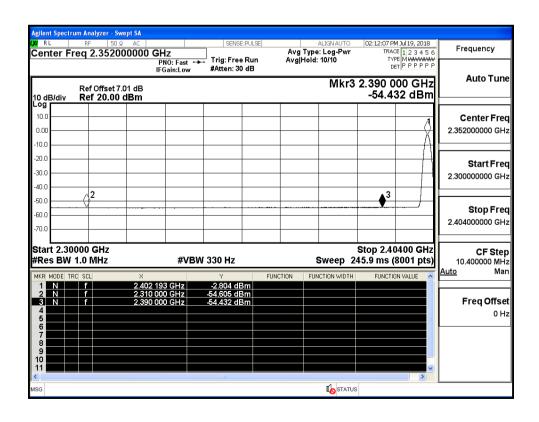
## A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-45.32	2.0	0	49.93	PEAK	74	PASS
	Off	2310.0	-54.61	2.0	0	40.65	AV	54	PASS
	Off	2390.0	-44.82	2.0	0	50.44	PEAK	74	PASS
	Off	2390.0	-54.43	2.0	0	40.83	AV	54	PASS
GFSK	Off	2483.5	-43.59	2.0	0	51.67	PEAK	74	PASS
	Off	2483.5	-54.22	2.0	0	41.04	AV	54	PASS
	Off	2500.0	-42.13	2.0	0	53.13	PEAK	74	PASS
	Off	2500.0	-54.02	2.0	0	41.24	AV	54	PASS
	Off	2310.0	-44.38	2.0	0	50.88	PEAK	74	PASS
	Off	2310.0	-54.62	2.0	0	40.64	AV	54	PASS
	Off	2390.0	-44.04	2.0	0	51.21	PEAK	74	PASS
445.0504	Off	2390.0	-54.45	2.0	0	40.80	AV	54	PASS
π/4DQPSK	Off	2483.5	-44.19	2.0	0	51.07	PEAK	74	PASS
	Off	2483.5	-54.16	2.0	0	41.10	AV	54	PASS
	Off	2500.0	-42.36	2.0	0	52.89	PEAK	74	PASS
	Off	2500.0	-54.04	2.0	0	41.22	AV	54	PASS
	Off	2310.0	-44.69	2.0	0	50.57	PEAK	74	PASS
	Off	2310.0	-54.77	2.0	0	40.49	AV	54	PASS
	Off	2390.0	-43.47	2.0	0	51.79	PEAK	74	PASS
	Off	2390.0	-54.43	2.0	0	40.83	AV	54	PASS
8DPSK	Off	2483.5	-43.99	2.0	0	51.26	PEAK	74	PASS
	Off	2483.5	-54.08	2.0	0	41.18	AV	54	PASS
	Off	2500.0	-43.70	2.0	0	51.56	PEAK	74	PASS
	Off	2500.0	-54.05	2.0	0	41.21	AV	54	PASS

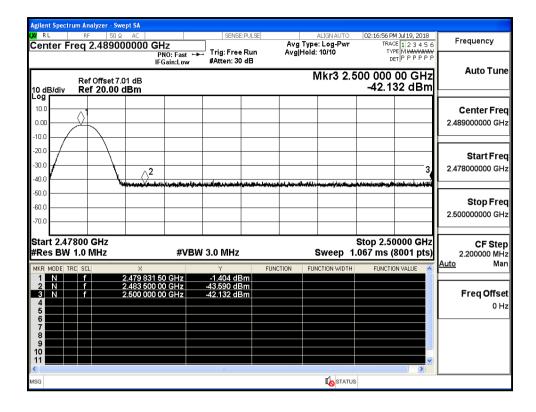




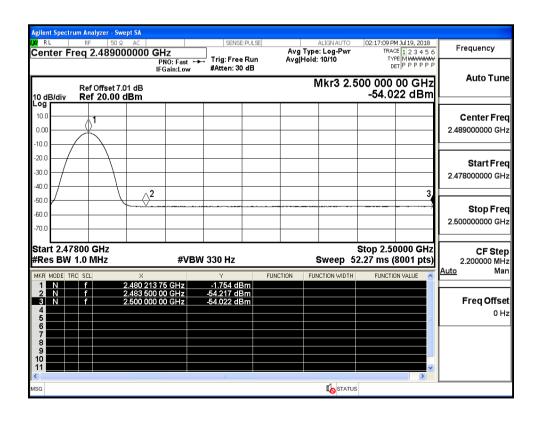
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (Low Channel)



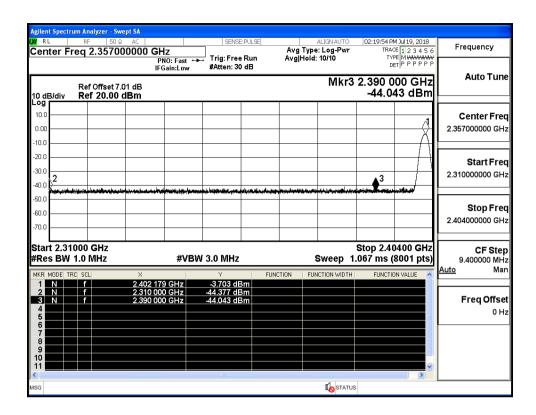
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_PEAK (High Channel)



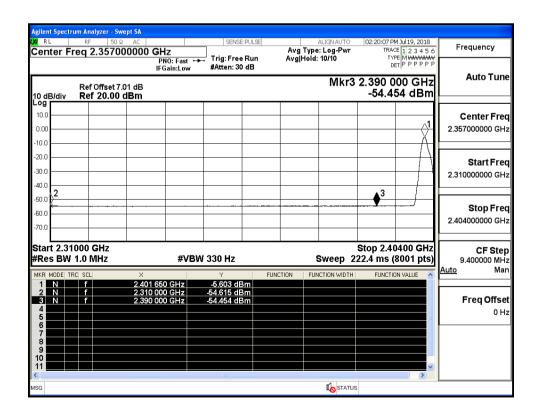
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (High Channel)



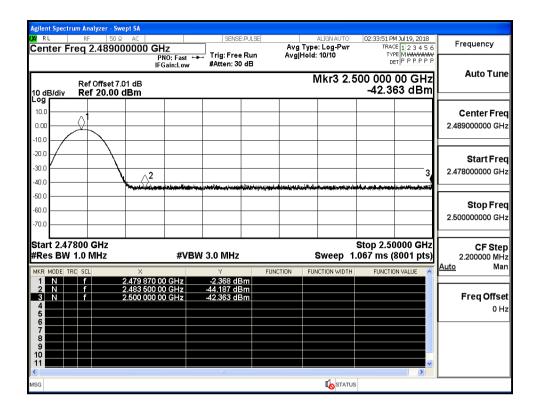
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (Low Channel)



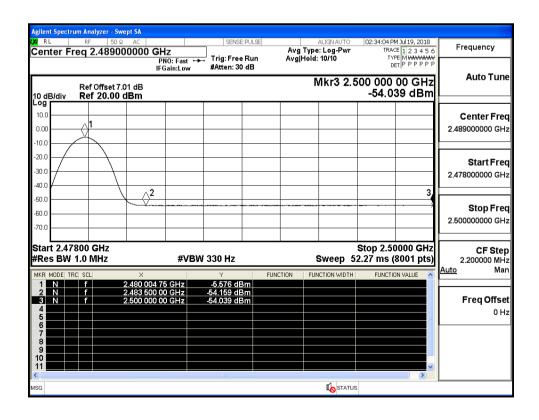
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (Low Channel)



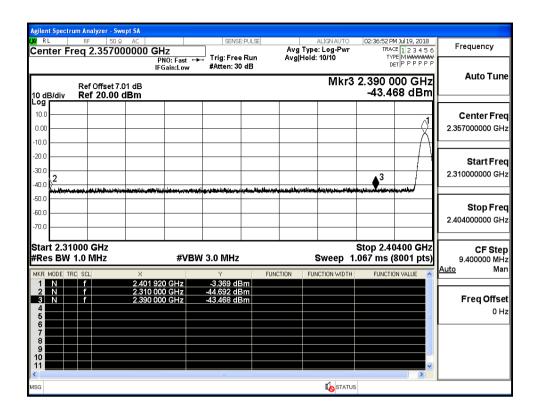
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (High Channel)



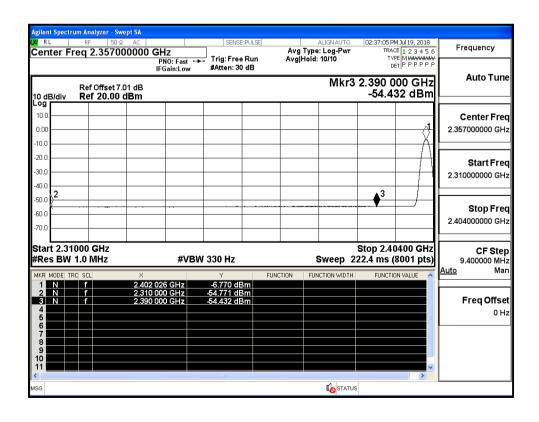
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (High Channel)



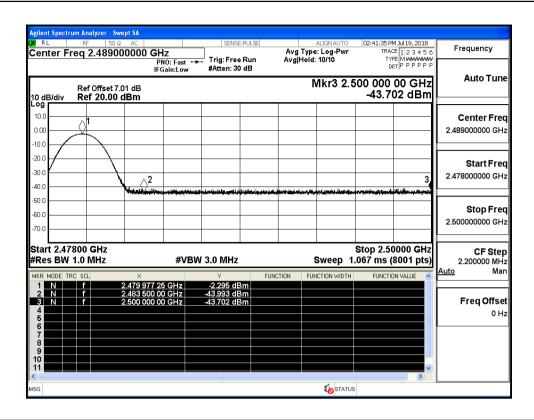
#### Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_PEAK (Low Channel)



#### 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)

