# Appendix A

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

**Product Name: LTE GSM/WCDMA Smartphone** 

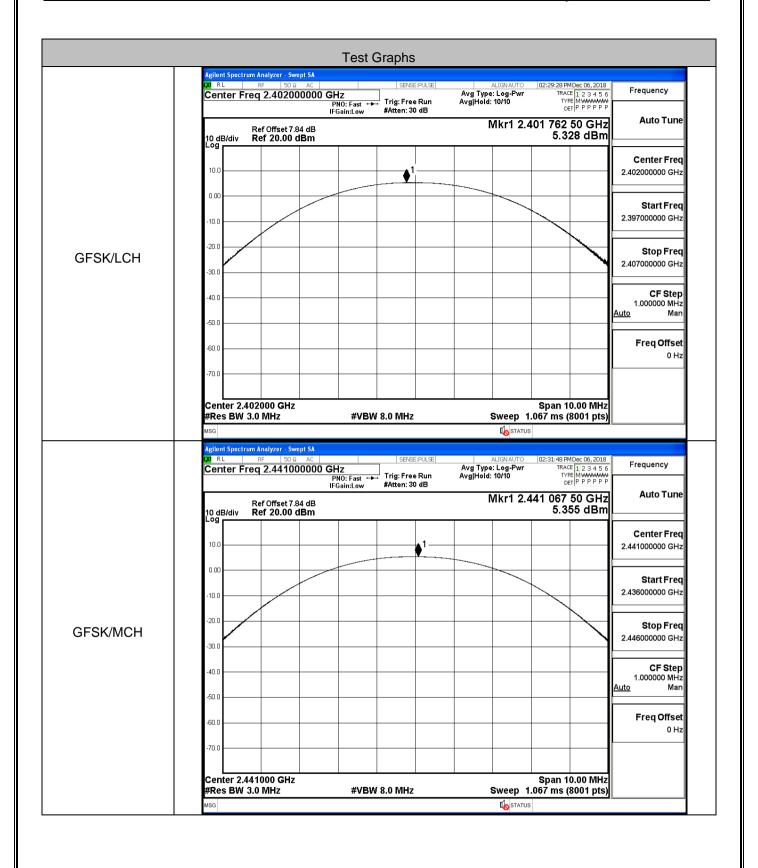
**Trade Mark: DOOGEE Test Model: S70 Lite** 

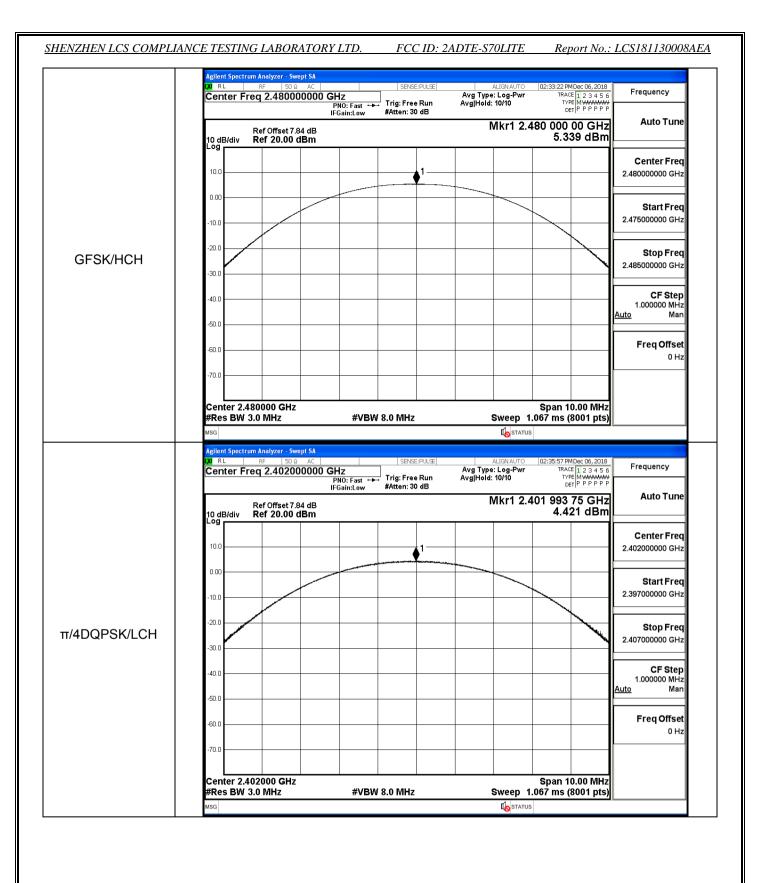
#### **Environmental Conditions**

·	
Temperature:	22.8 ° C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.Xu
Supervised by:	Jayden.Zhuo

### **A.1 Maxmum Conducted Peak Output Power**

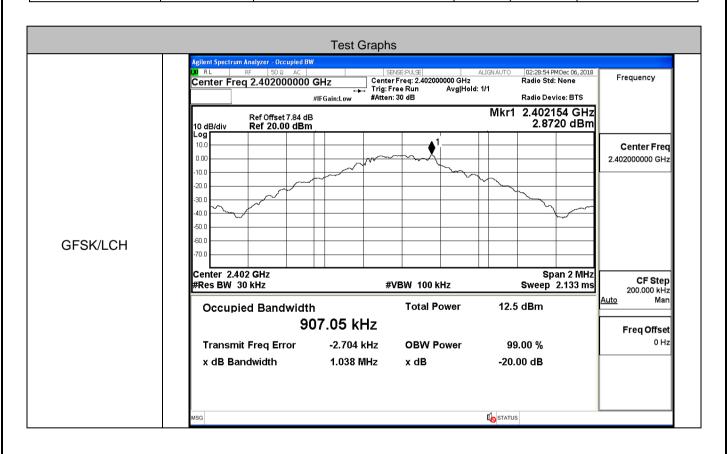
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	5.328	30	PASS
GFSK	MCH	5.355	30	PASS
	НСН	5.339	30	PASS
	LCH	4.421	21	PASS
π/4DQPSK	MCH	4.452	21	PASS
	НСН	4.617	21	PASS
	LCH	4.510	21	PASS
8DPSK	MCH	4.561	21	PASS
	HCH	4.715	21	PASS





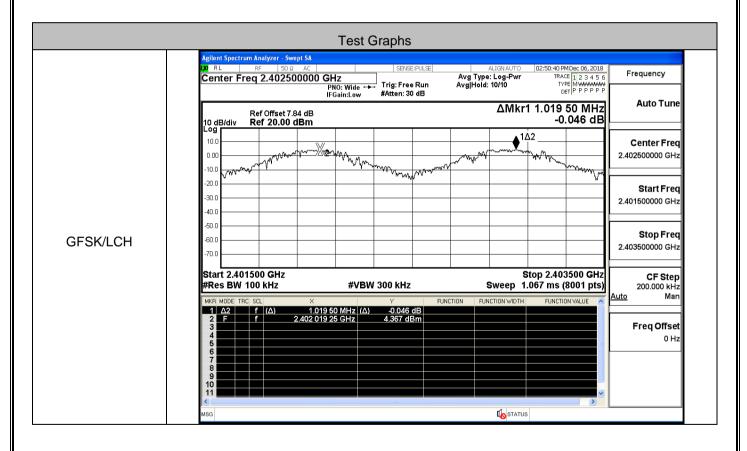
#### A.2 20dB Bandwidth

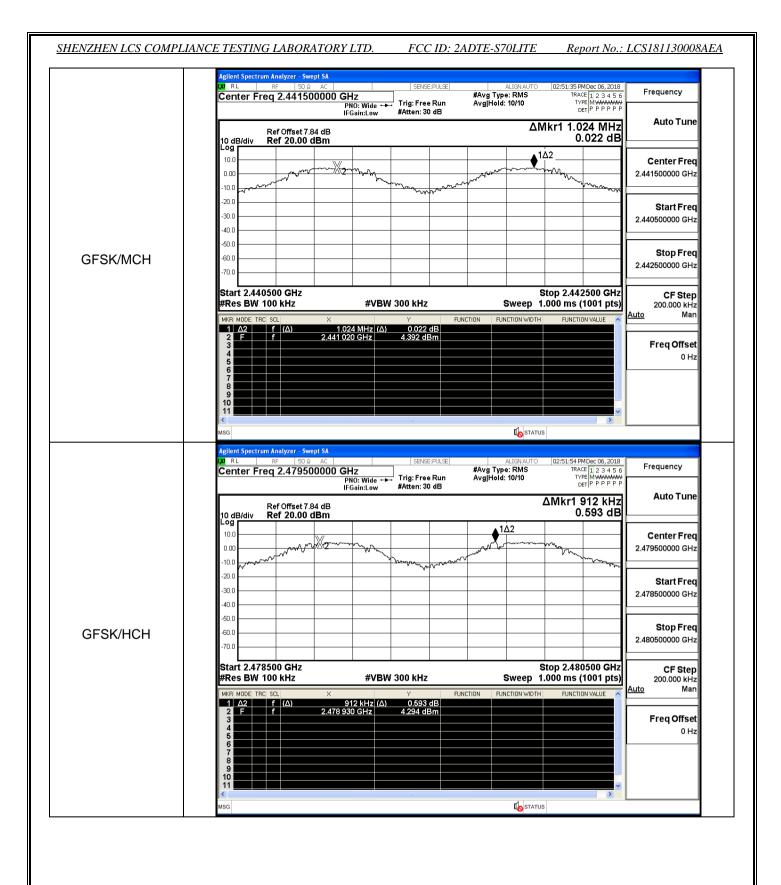
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	1.038	Not Specified	PASS
GFSK	MCH	1.042	Not Specified	PASS
	НСН	1.031	Not Specified	PASS
	LCH	1.287	Not Specified	PASS
π/4DQPSK	MCH	1.289	Not Specified	PASS
	HCH	1.290	Not Specified	PASS
	LCH	1.294	Not Specified	PASS
8DPSK	MCH	1.295	Not Specified	PASS
	HCH	1.298	Not Specified	PASS

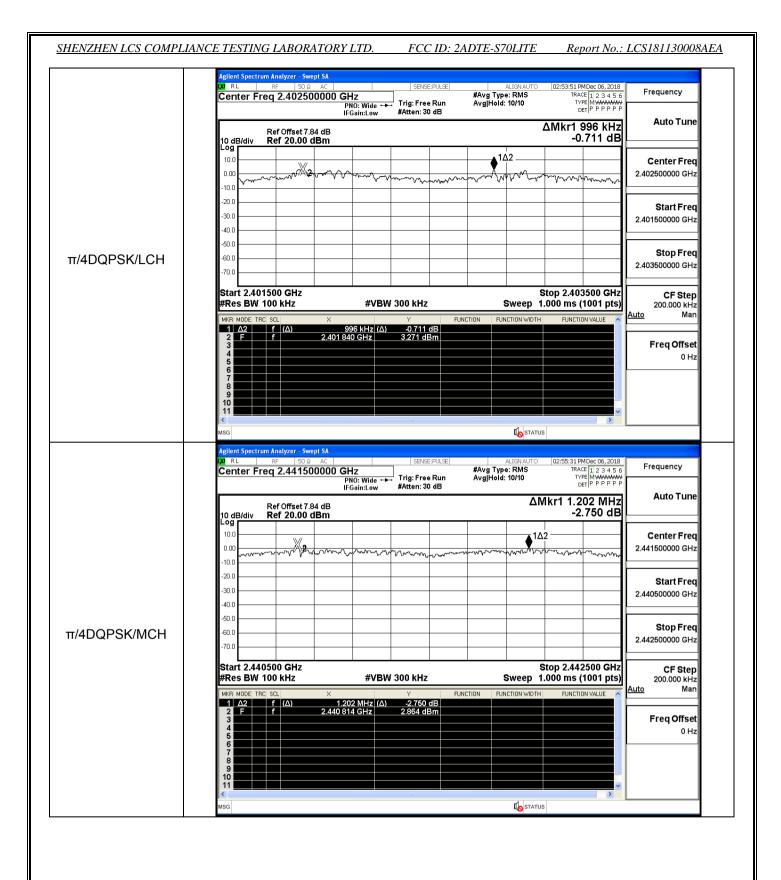


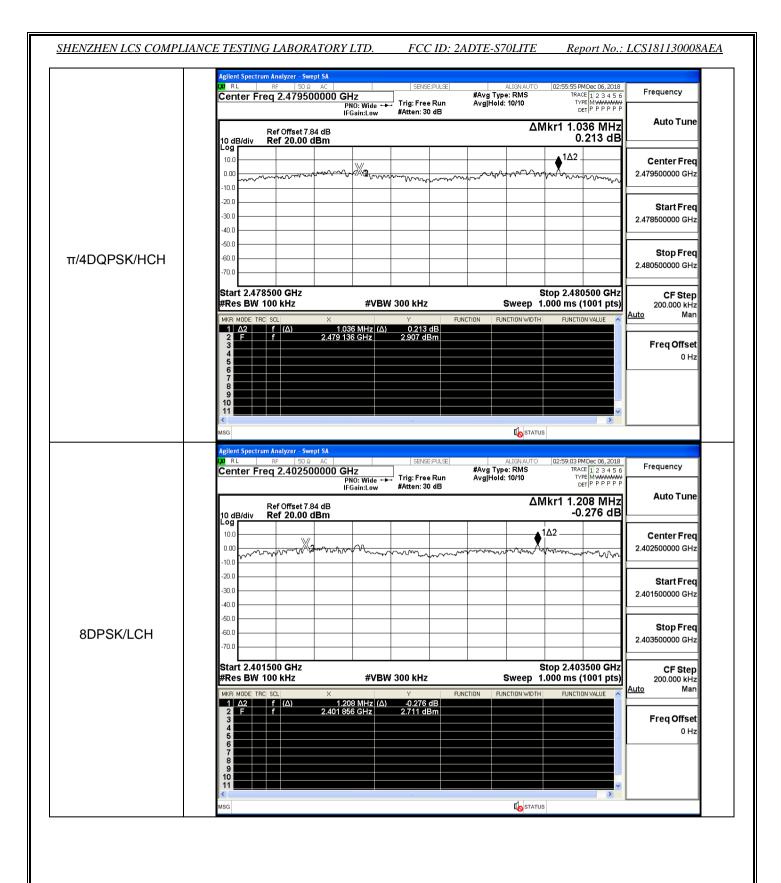
## **A.3 Carrier Frequency Separation**

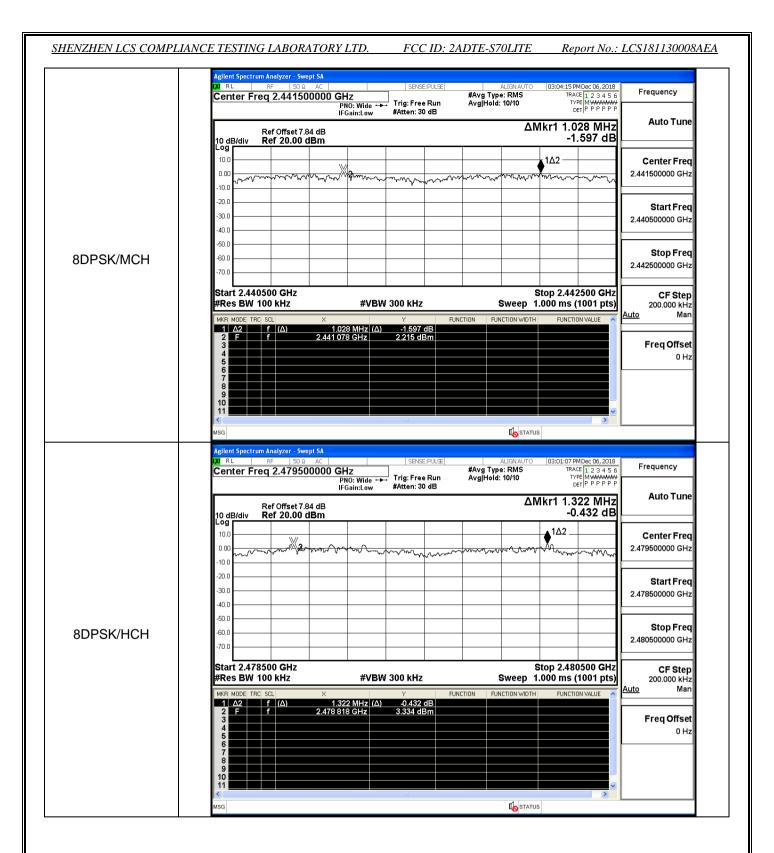
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	1.020	0.695	PASS
GFSK	MCH	1.024	0.695	PASS
	HCH	0.912	0.695	PASS
	LCH	0.996	0.860	PASS
π/4DQPSK	MCH	1.202	0.860	PASS
	HCH	1.036	0.860	PASS
	LCH	1.208	0.865	PASS
8DPSK	MCH	1.028	0.865	PASS
	HCH	1.322	0.865	PASS





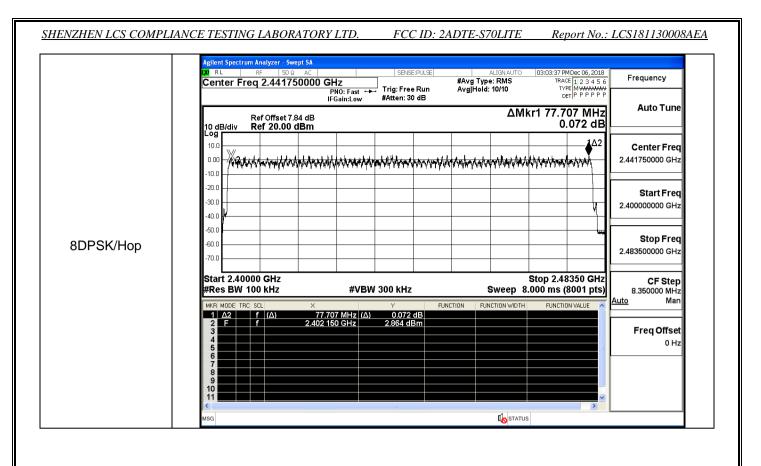






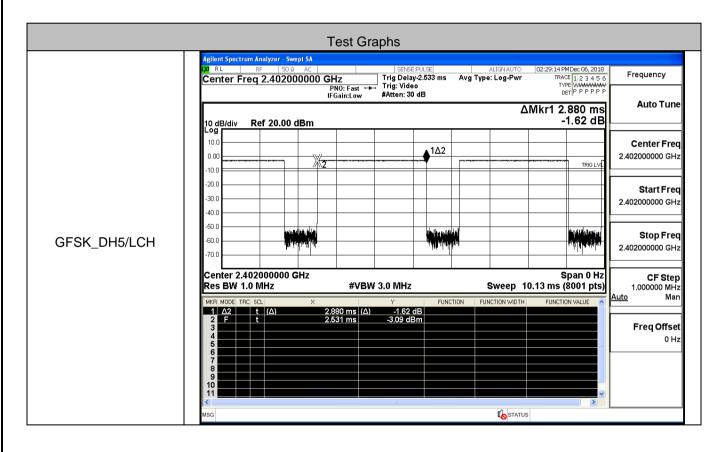
### A.4 Hopping Channel Number

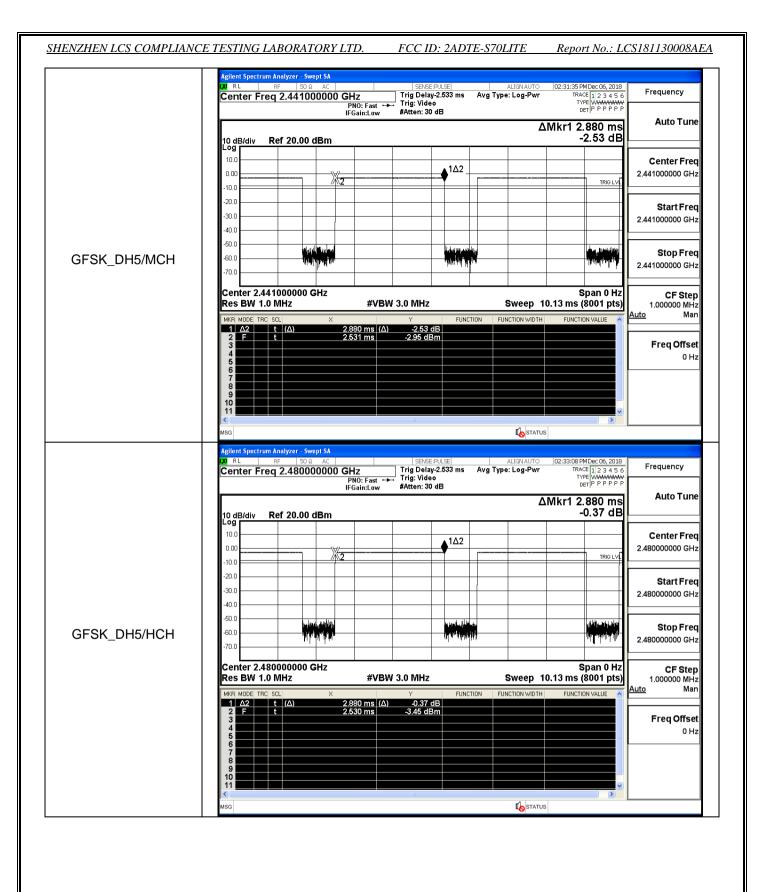
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS
8DPSK	Нор	79	>=15	PASS

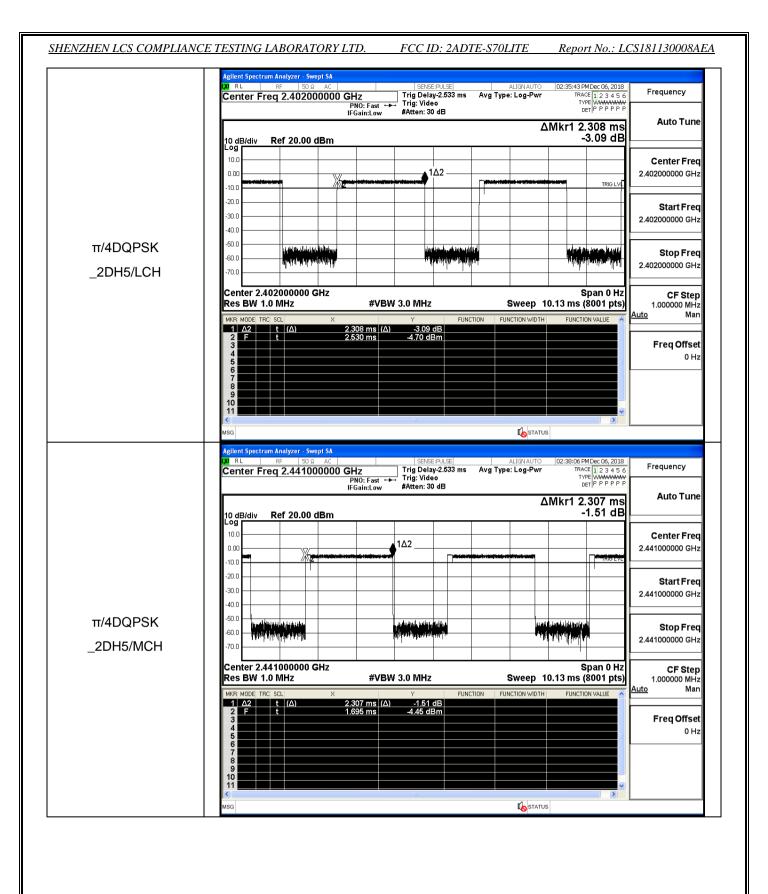


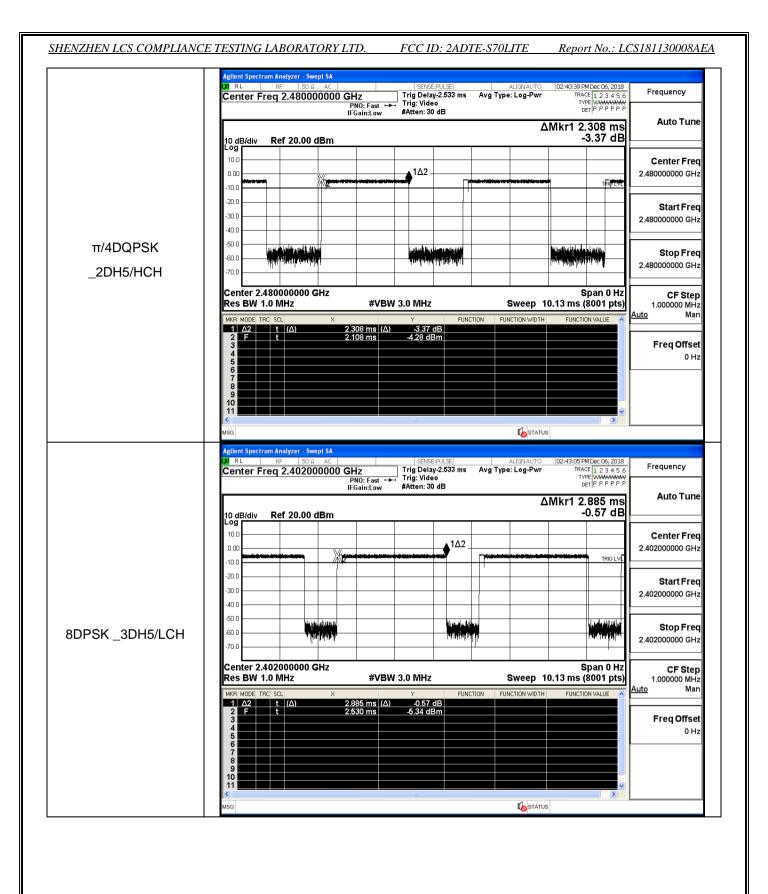
#### A.5 Dwell Time

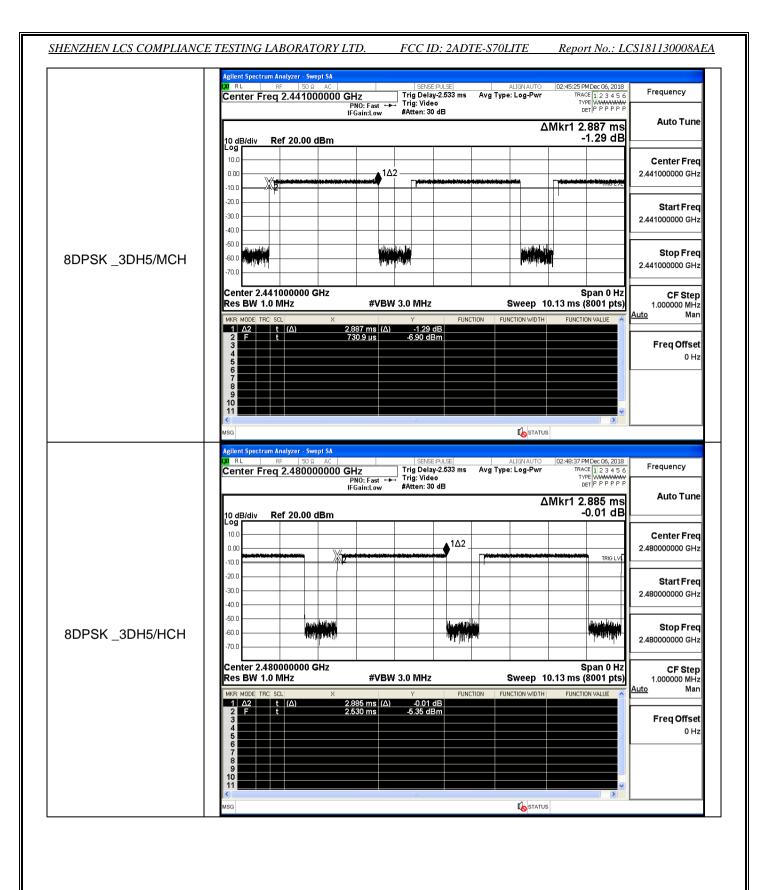
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
	DH5	LCH	2.88	106.7	0.307	0.4	PASS
GFSK	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	HCH	2.88	106.7	0.307	0.4	PASS
	2DH5	LCH	2.88	106.7	0.246	0.4	PASS
π/4DQPSK	2DH5	MCH	2.88	106.7	0.246	0.4	PASS
	2DH5	HCH	2.88	106.7	0.246	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	НСН	2.88	106.7	0.308	0.4	PASS





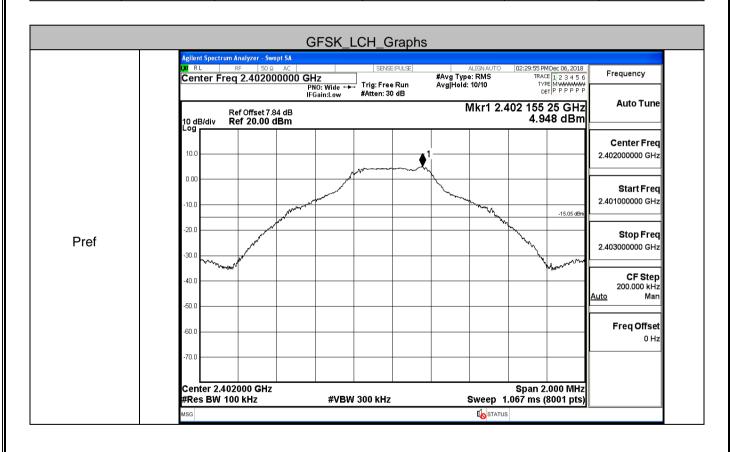




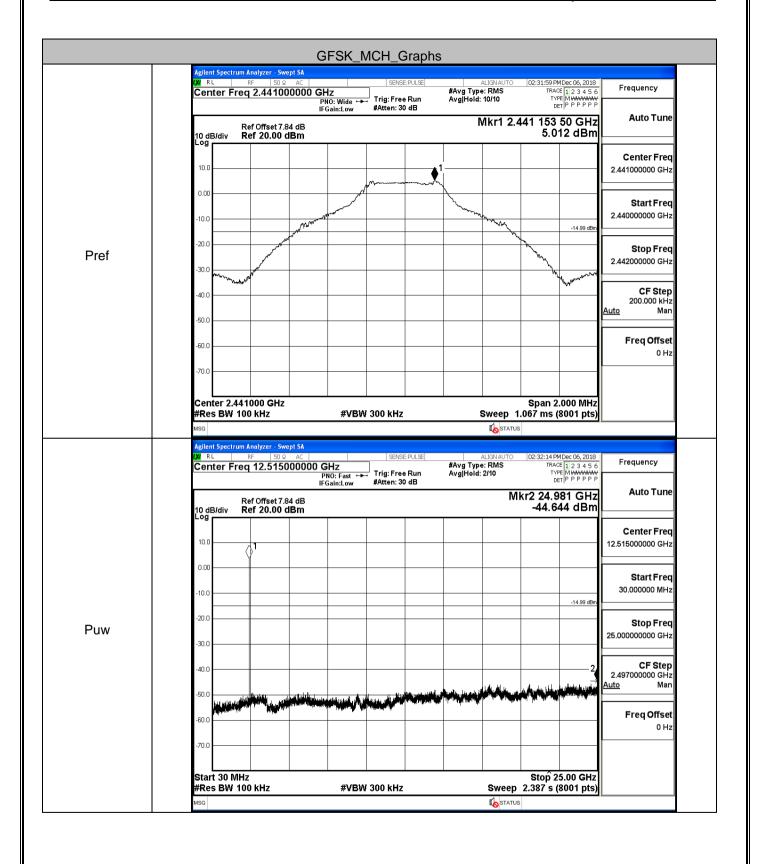


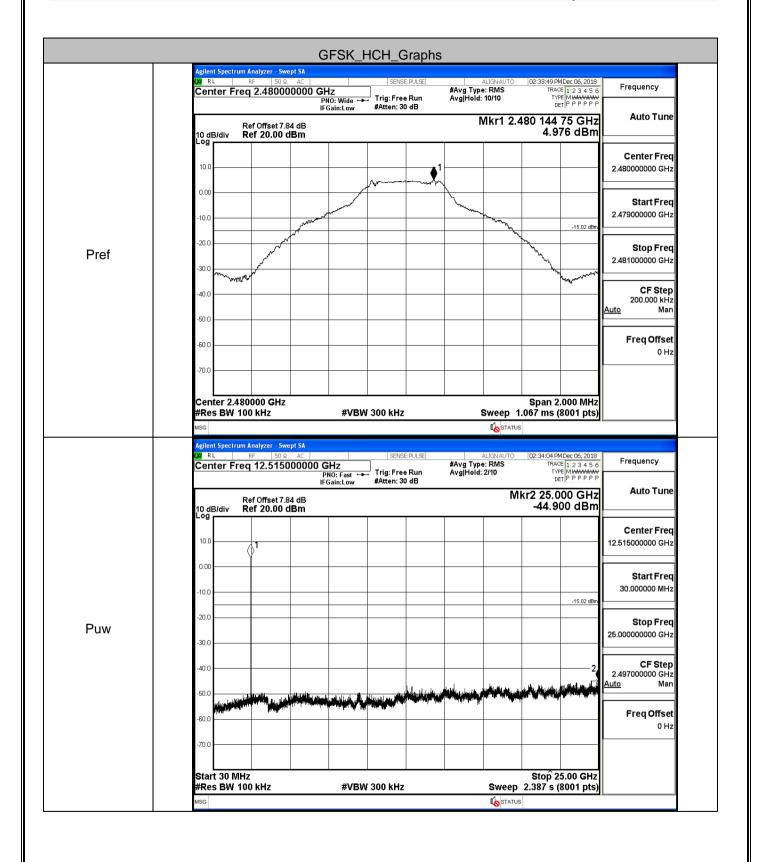
#### A.6 RF Conducted Spurious Emissions

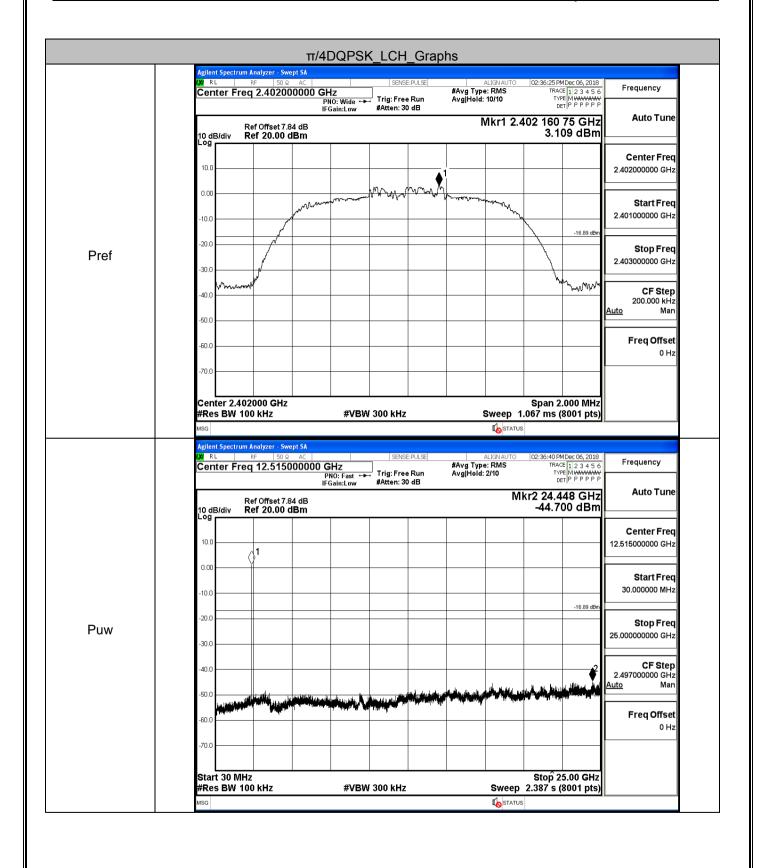
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	4.948	-44.396	-15.052	PASS
GFSK	MCH	5.012	-44.644	-14.988	PASS
	HCH	4.976	-44.900	-15.024	PASS
	LCH	3.109	-44.700	-16.891	PASS
π/4DQPSK	MCH	3.345	-45.428	-16.655	PASS
	HCH	3.716	-44.582	-16.284	PASS
	LCH	3.305	-44.978	-16.695	PASS
8DPSK	MCH	3.371	-44.798	-16.629	PASS
	HCH	3.693	-44.806	-16.307	PASS

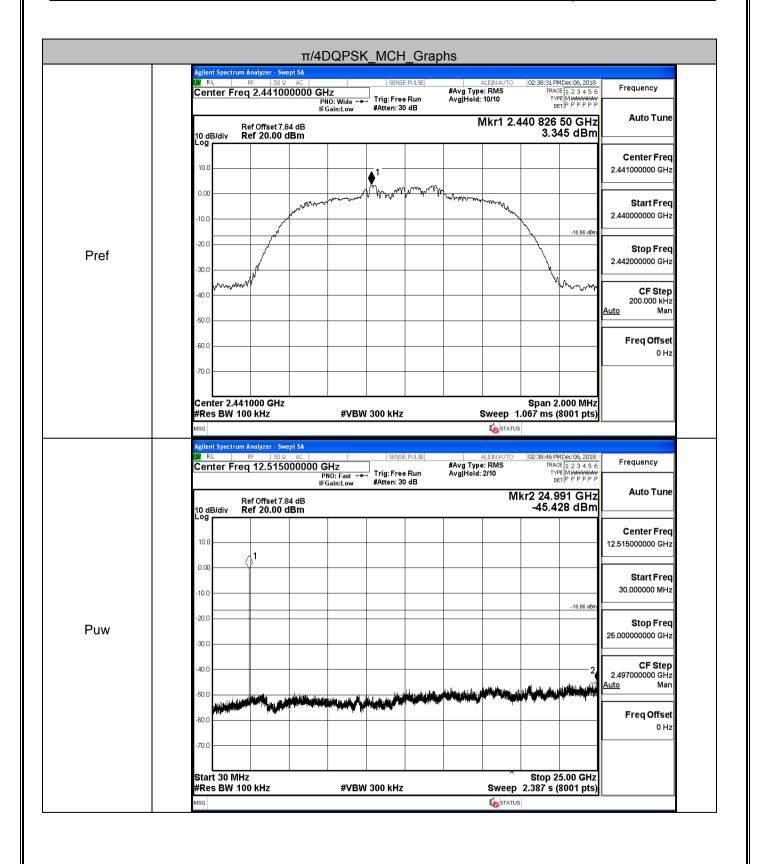


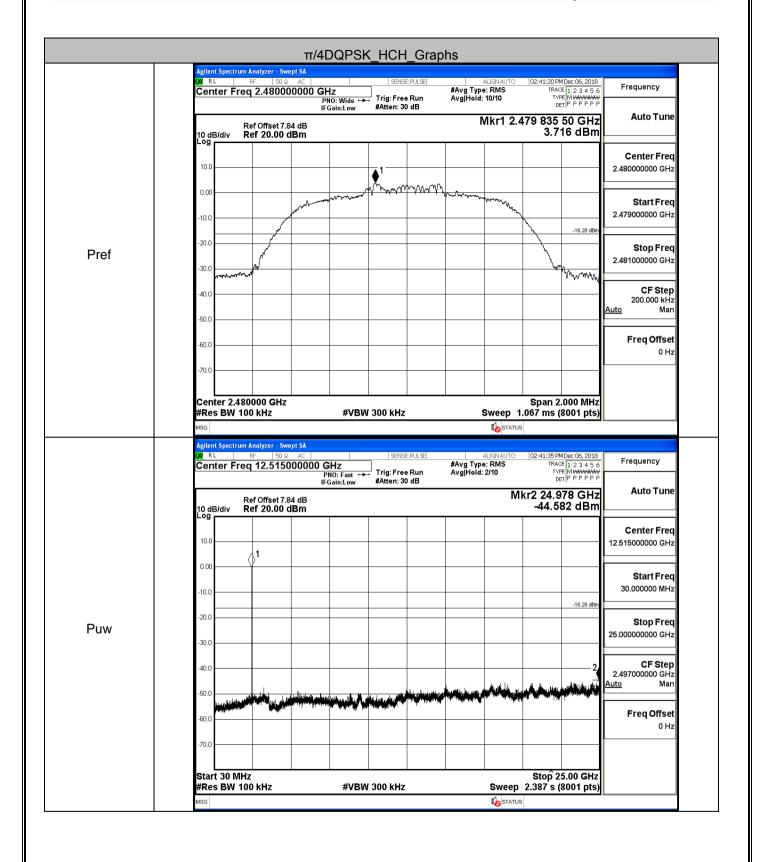
STATUS

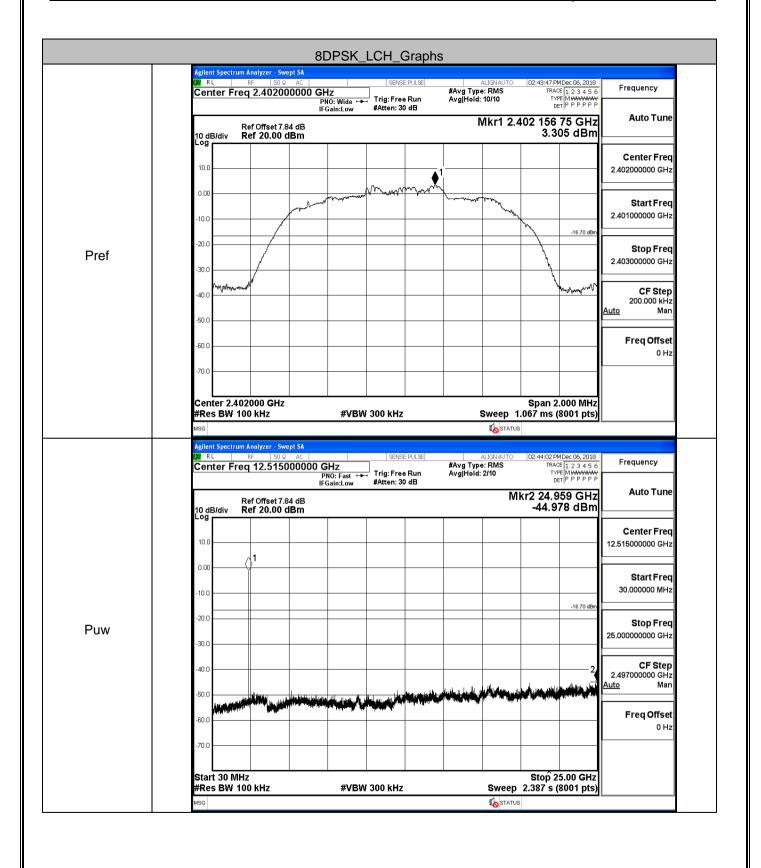


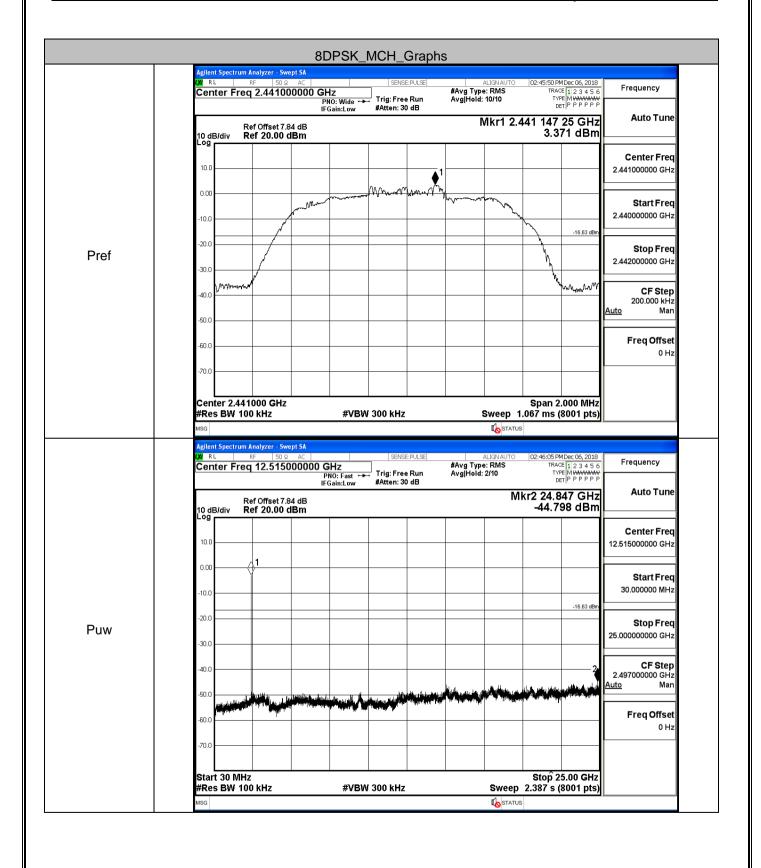


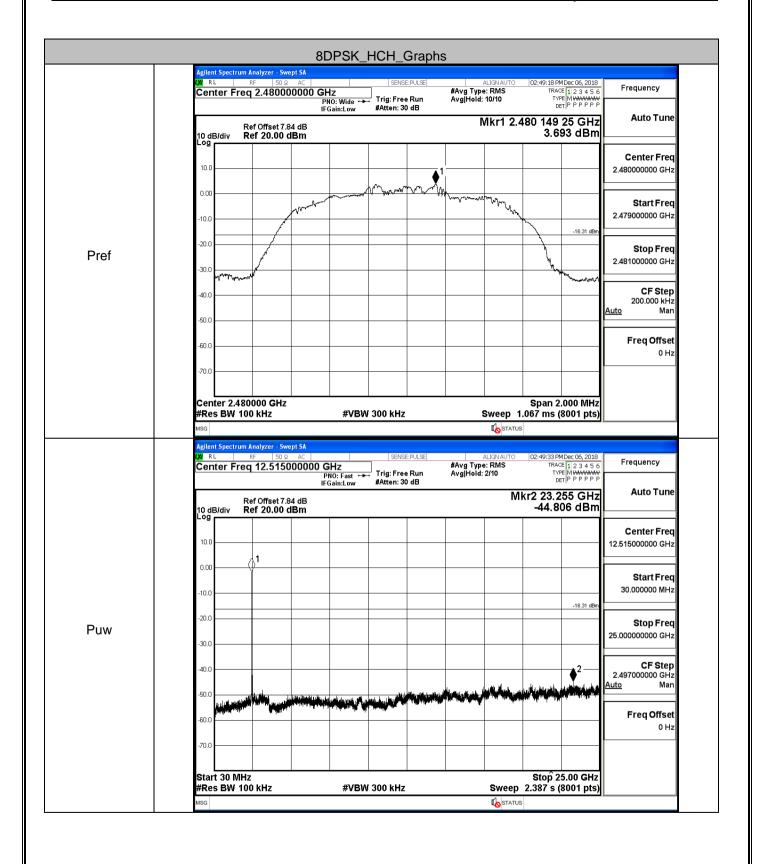






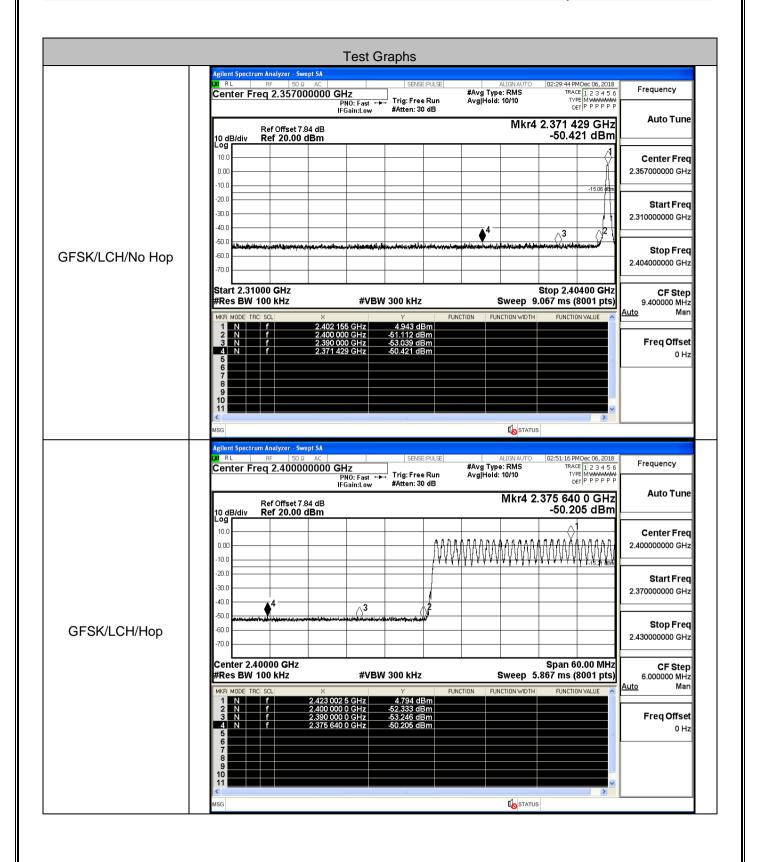


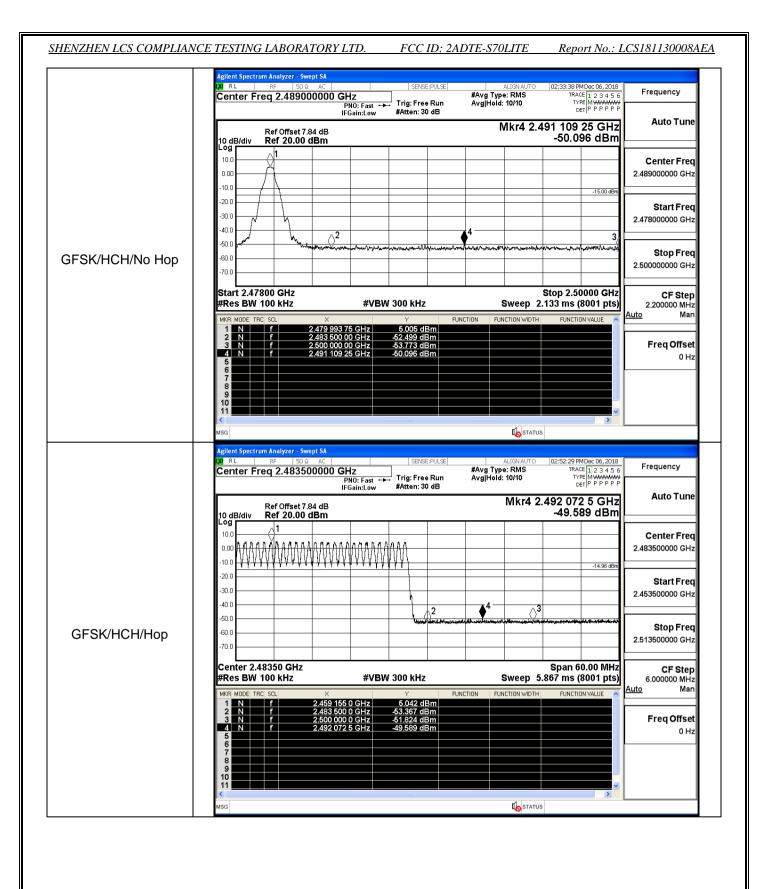


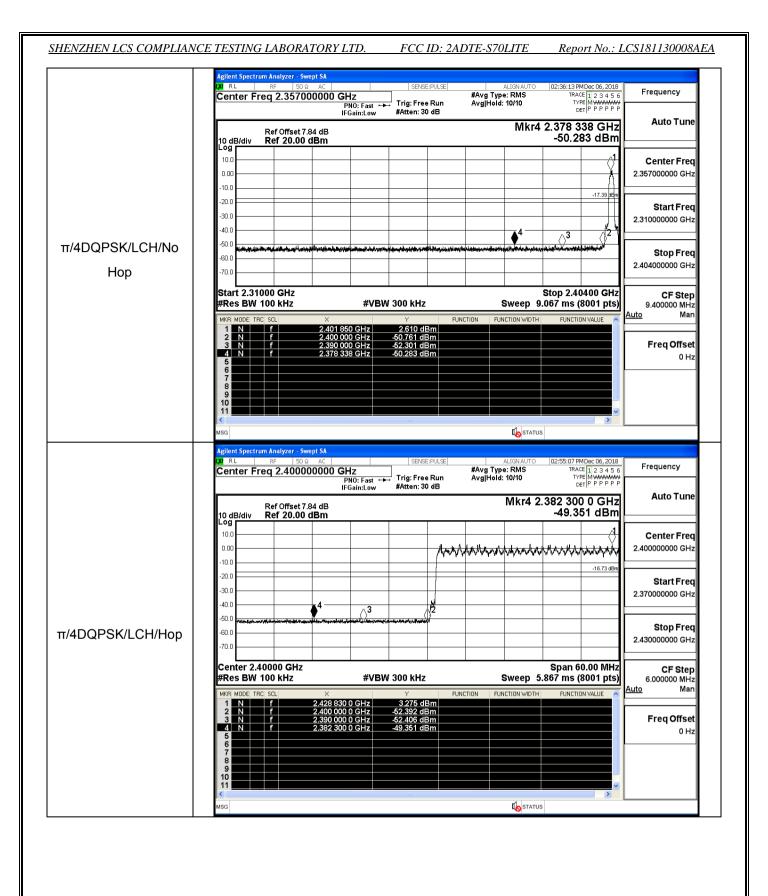


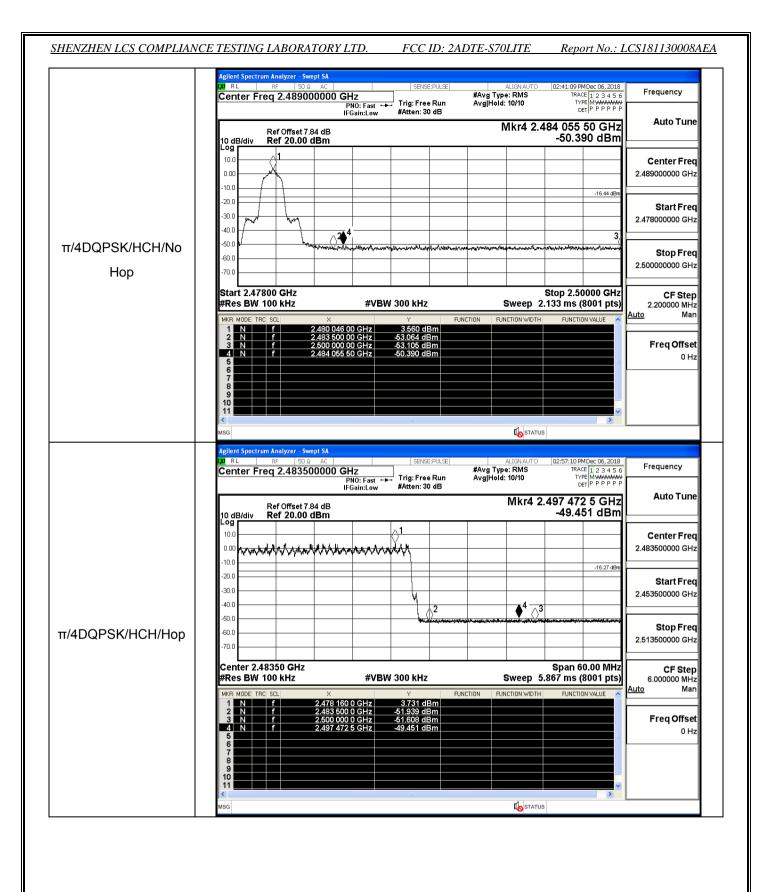
## A.7 Band-edge for RF Conducted Emissions

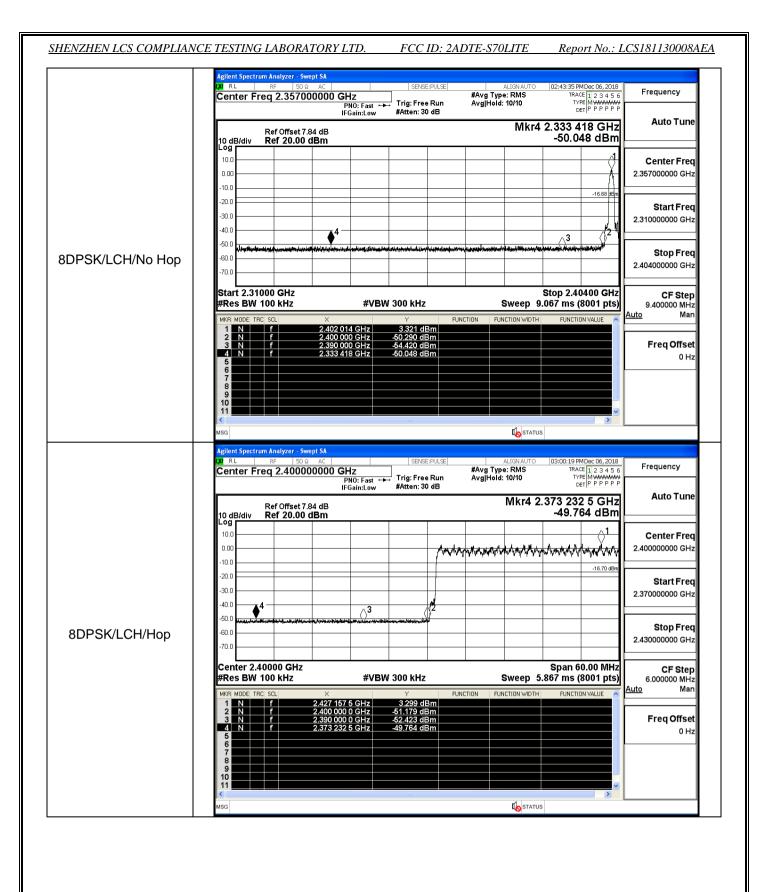
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
		0.400	4.943	Off	-50.421	-15.06	PASS
0.5014	LCH	2402	4.794	On	-50.205	-15.21	PASS
GFSK	нсн		5.005	Off	-50.096	-15	PASS
		2480	5.042	On	-49.589	-14.96	PASS
	LCH		2.610	Off	-50.283	-17.39	PASS
		2402	3.275	On	-49.351	-16.73	PASS
π/4DQPSK	нсн	2480	3.560	Off	-50.390	-16.44	PASS
			3.731	On	-49.451	-16.27	PASS
		LCH 2402	3.321	Off	-50.048	-16.68	PASS
	LCH		3.299	On	-49.764	-16.7	PASS
8DPSK		0.400	3.684	Off	-39.744	-16.32	PASS
	HCH	2480	3.600	On	-49.596	-16.4	PASS

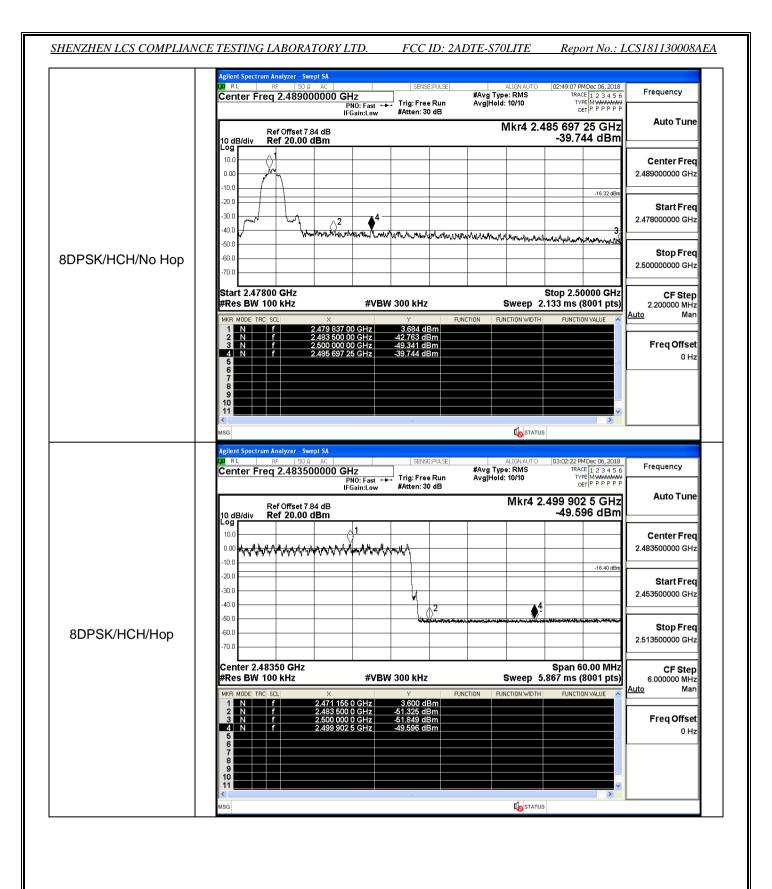








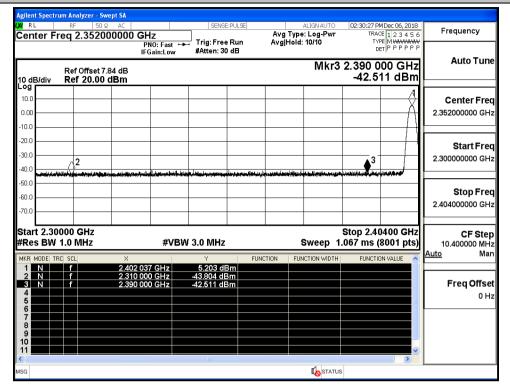




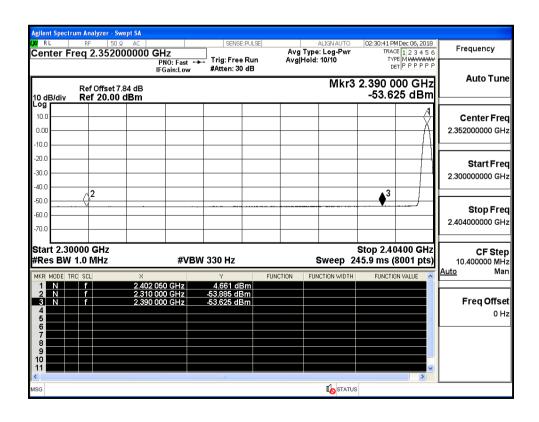
## A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-43.80	2.0	0	53.45	PEAK	74	PASS
	Off	2310.0	-53.89	2.0	0	43.37	AV	54	PASS
	Off	2390.0	-42.51	2.0	0	54.75	PEAK	74	PASS
	Off	2390.0	-53.63	2.0	0	43.63	AV	54	PASS
GFSK	Off	2483.5	-42.01	2.0	0	55.25	PEAK	74	PASS
	Off	2483.5	-53.05	2.0	0	44.21	AV	54	PASS
	Off	2500.0	-44.49	2.0	0	52.77	PEAK	74	PASS
	Off	2500.0	-53.25	2.0	0	44.01	AV	54	PASS
	Off	2310.0	-42.06	2.0	0	55.20	PEAK	74	PASS
	Off	2310.0	-53.85	2.0	0	43.41	AV	54	PASS
	Off	2390.0	-42.58	2.0	0	54.68	PEAK	74	PASS
	Off	2390.0	-53.65	2.0	0	43.60	AV	54	PASS
π/4DQPSK	Off	2483.5	-43.16	2.0	0	54.09	PEAK	74	PASS
	Off	2483.5	-53.10	2.0	0	44.16	AV	54	PASS
	Off	2500.0	-42.67	2.0	0	54.59	PEAK	74	PASS
	Off	2500.0	-53.32	2.0	0	43.93	AV	54	PASS
	Off	2310.0	-44.62	2.0	0	52.64	PEAK	74	PASS
	Off	2310.0	-53.95	2.0	0	43.31	AV	54	PASS
	Off	2390.0	-42.90	2.0	0	54.36	PEAK	74	PASS
	Off	2390.0	-53.48	2.0	0	43.78	AV	54	PASS
8DPSK	Off	2483.5	-26.75	2.0	0	70.51	PEAK	74	PASS
	Off	2483.5	-52.02	2.0	0	45.24	AV	54	PASS
	Off	2500.0	-32.27	2.0	0	64.99	PEAK	74	PASS
	Off	2500.0	-52.75	2.0	0	44.51	AV	54	PASS

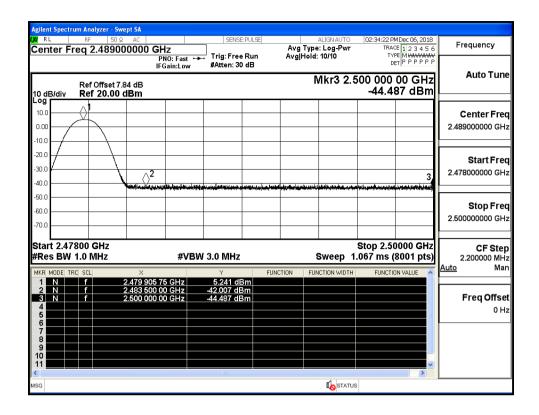




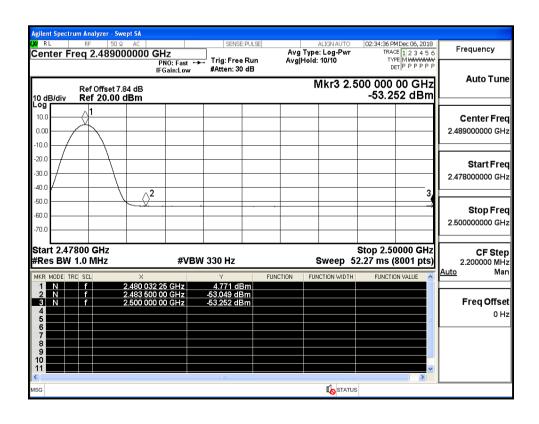
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (Low Channel)



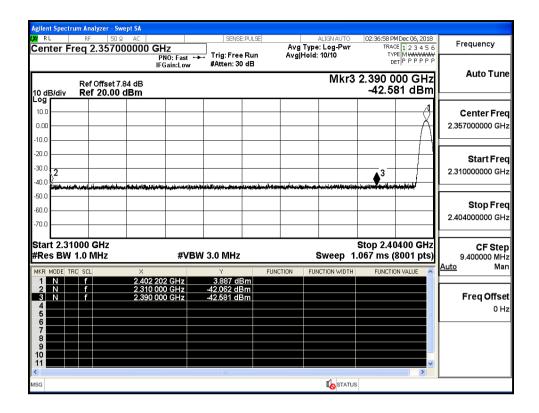
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_PEAK (High Channel)



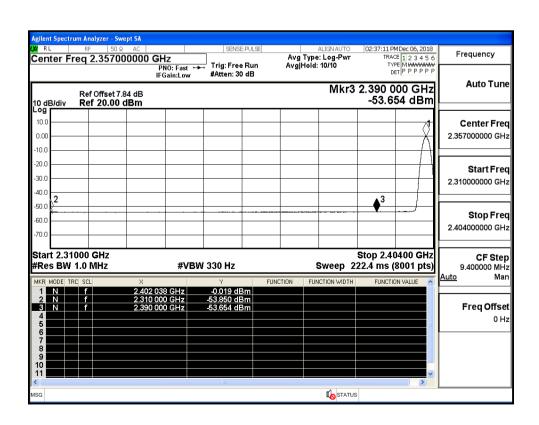
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (High Channel)



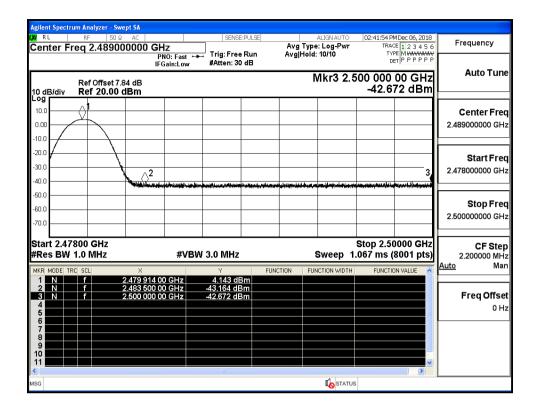
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (Low Channel)



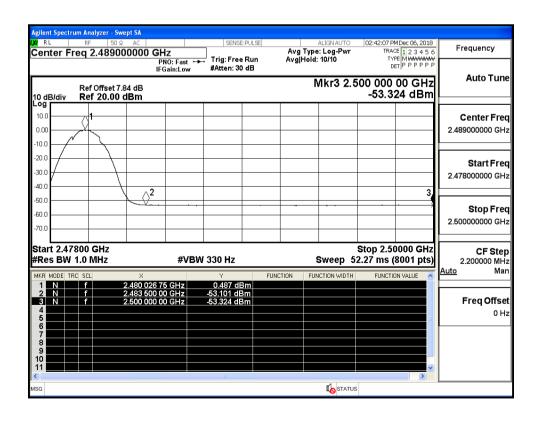
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (Low Channel)



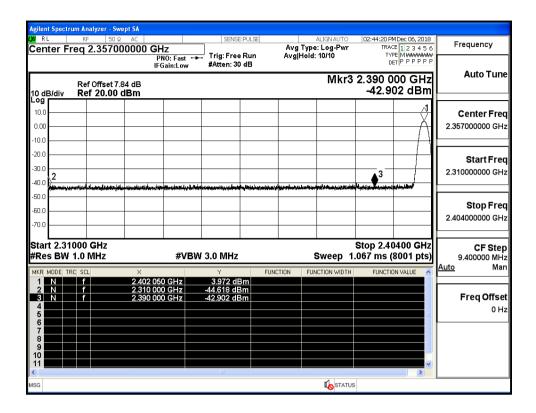
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (High Channel)



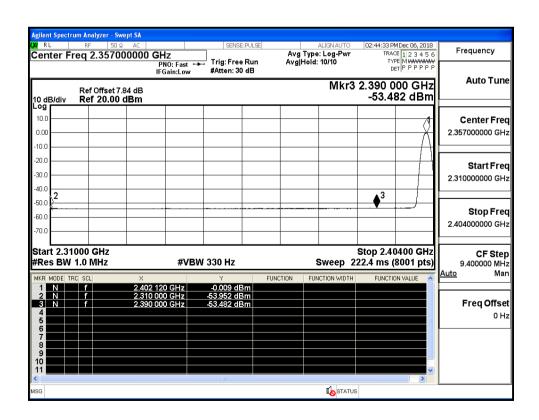
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (High Channel)



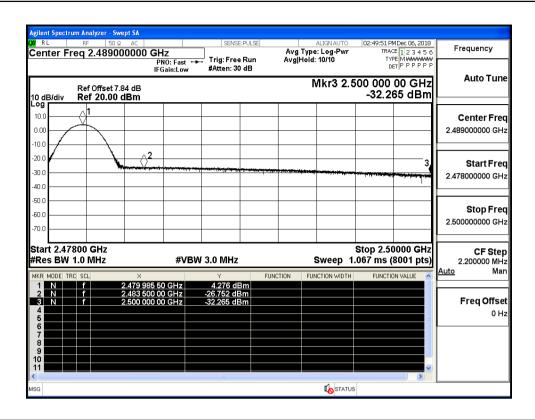
#### Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_PEAK (Low Channel)



#### 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)

