# **Appendix A**

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

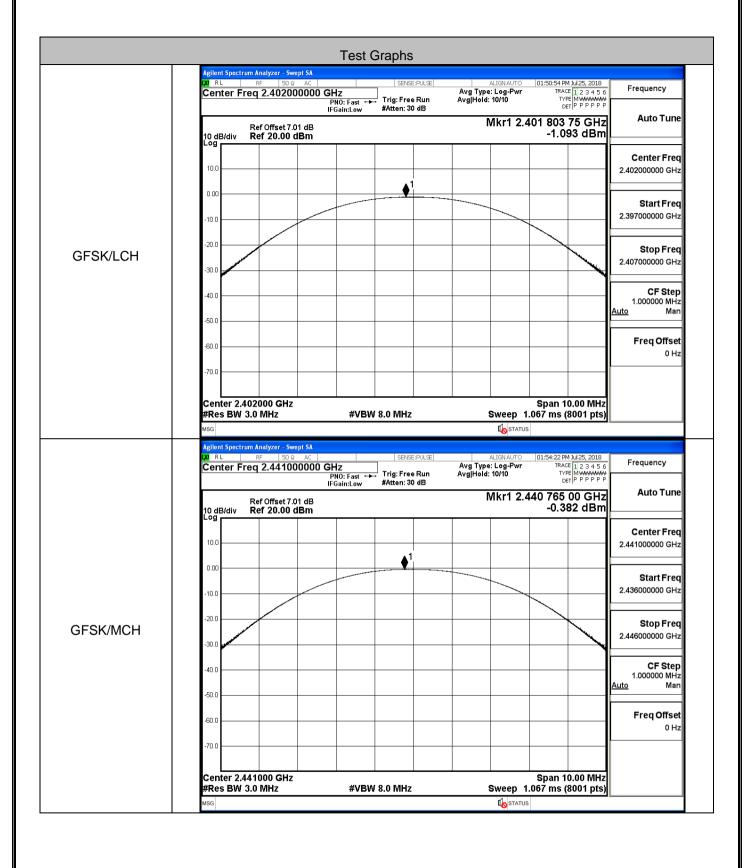
**Product Name: AIO PC Trade Mark: Fusion5 Test Model: A7** 

#### **Environmental Conditions**

Temperature:	22.6 ° C
Relative Humidity:	53.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom Liu
Supervised by:	Jayden Zhuo

## A.1 Maximum Conducted Peak Output Power

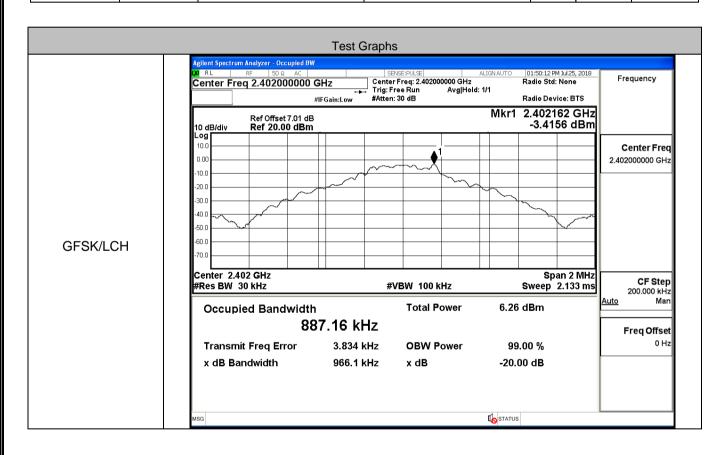
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	-1.093	21	PASS
GFSK	MCH	-0.382	21	PASS
	НСН	1.963	21	PASS
	LCH	-1.736	21	PASS
π/4DQPSK	MCH	-0.926	21	PASS
	НСН	1.197	21	PASS
	LCH	-1.588	21	PASS
8DPSK	MCH	-0.807	21	PASS
	НСН	1.335	21	PASS



STATUS

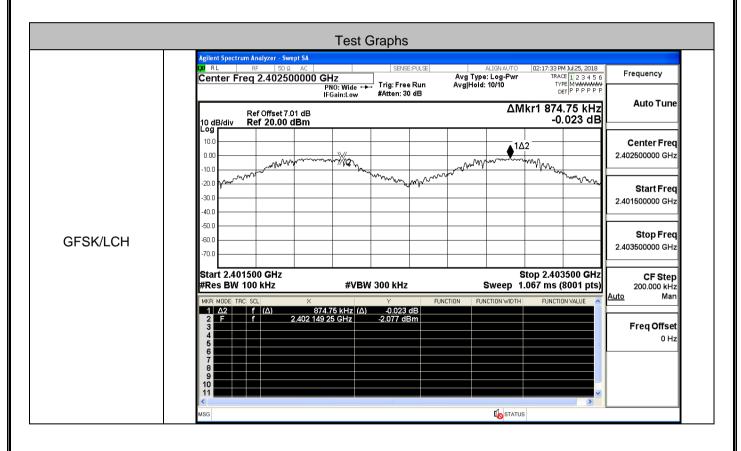
#### A.2 99% and 20dB Bandwidth

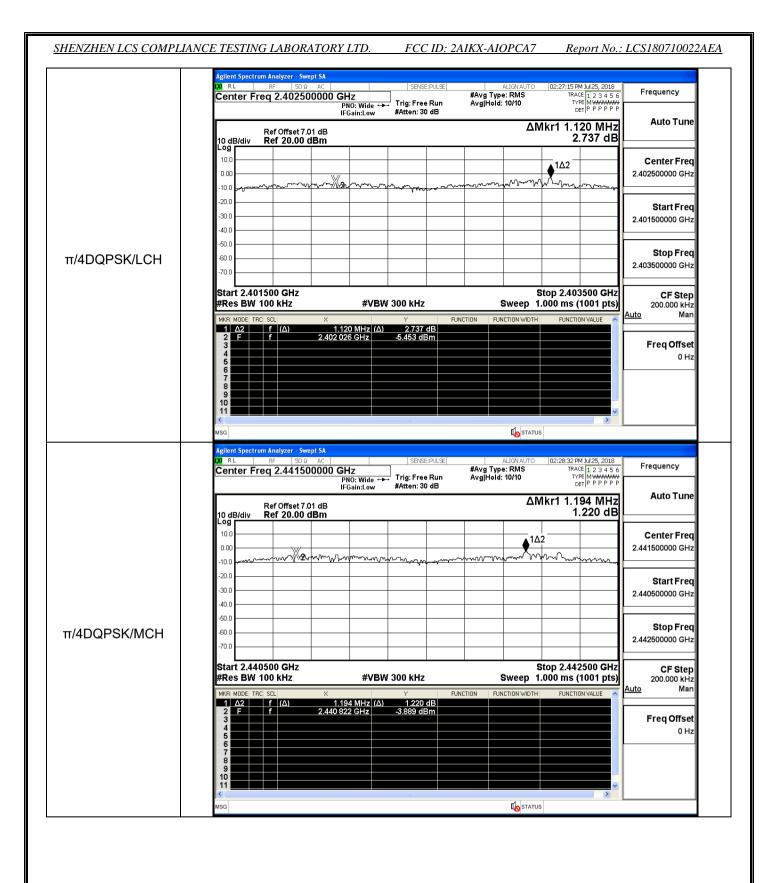
Mode	Channel.	99% Bandwidth [MHz]	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	0.88716	0.9661	Not Specified	PASS
GFSK	MCH	0.88555	0.9663	Not Specified	PASS
	НСН	0.88891	1.032	Not Specified	PASS
	LCH	1.1750	1.313	Not Specified	PASS
π/4DQPSK	MCH	1.1811	1.315	Not Specified	PASS
	HCH	1.1703	1.291	Not Specified	PASS
	LCH	1.1904	1.297	Not Specified	PASS
8DPSK	DPSK MCH 1.19		1.298	Not Specified	PASS
	HCH	1.1785	1.292	Not Specified	PASS

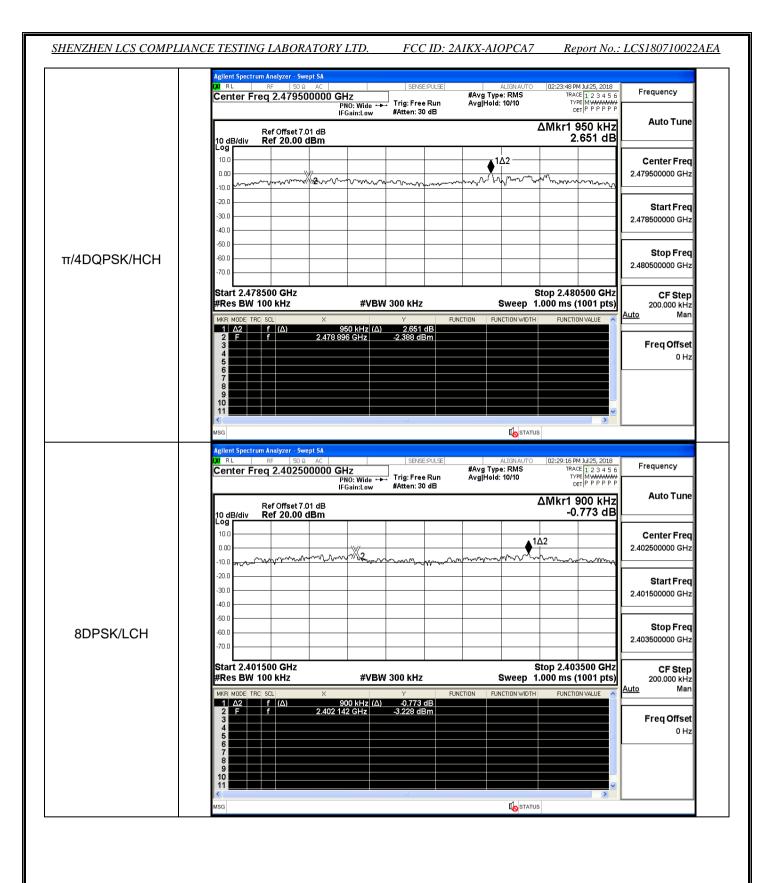


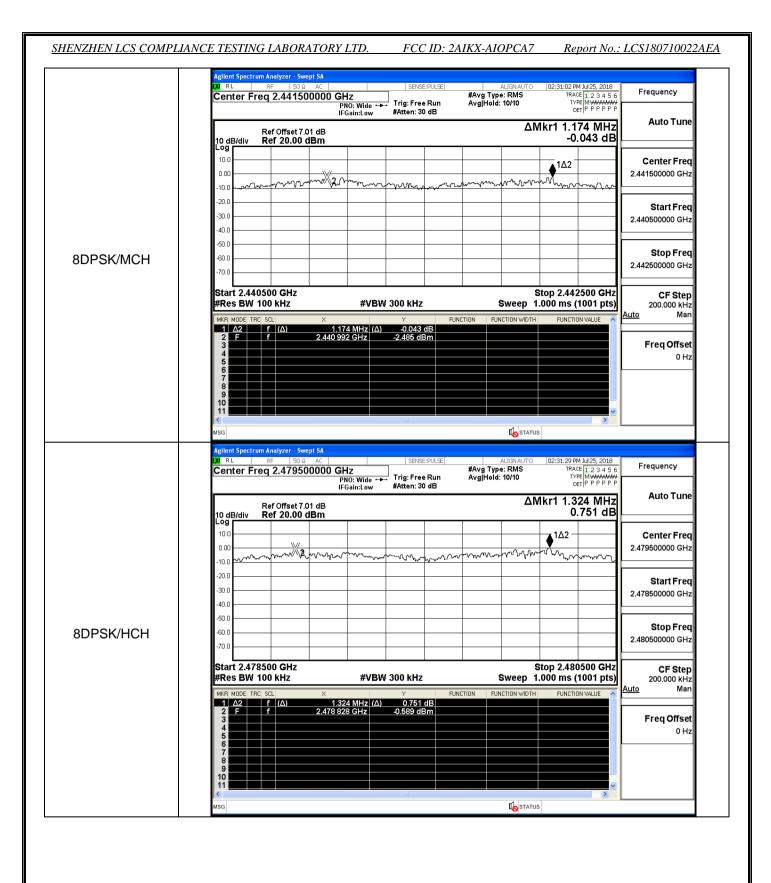
## **A.3 Carrier Frequency Separation**

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	0.875	0.688	PASS
GFSK	MCH	0.892	0.688	PASS
	HCH	0.946	0.688	PASS
	LCH	1.120	0.877	PASS
π/4DQPSK	MCH	1.194	0.877	PASS
	HCH	0.950	0.877	PASS
	LCH	0.900	0.865	PASS
8DPSK	MCH	1.174	0.865	PASS
	HCH	1.324	0.865	PASS



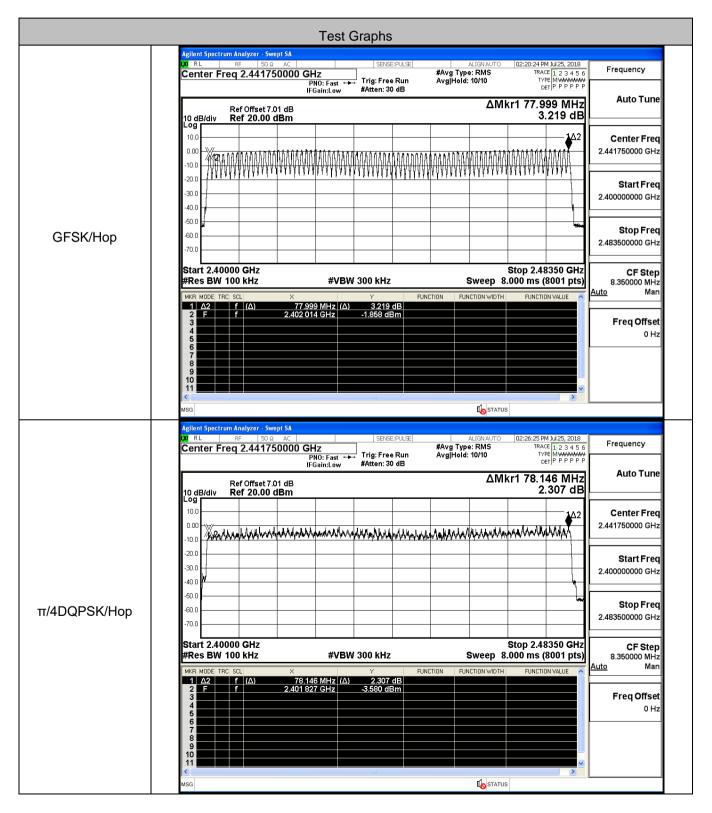






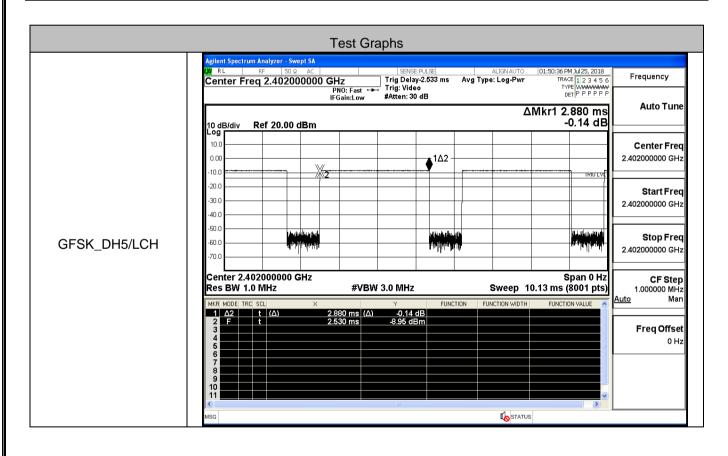
### A.4 Hopping Channel Number

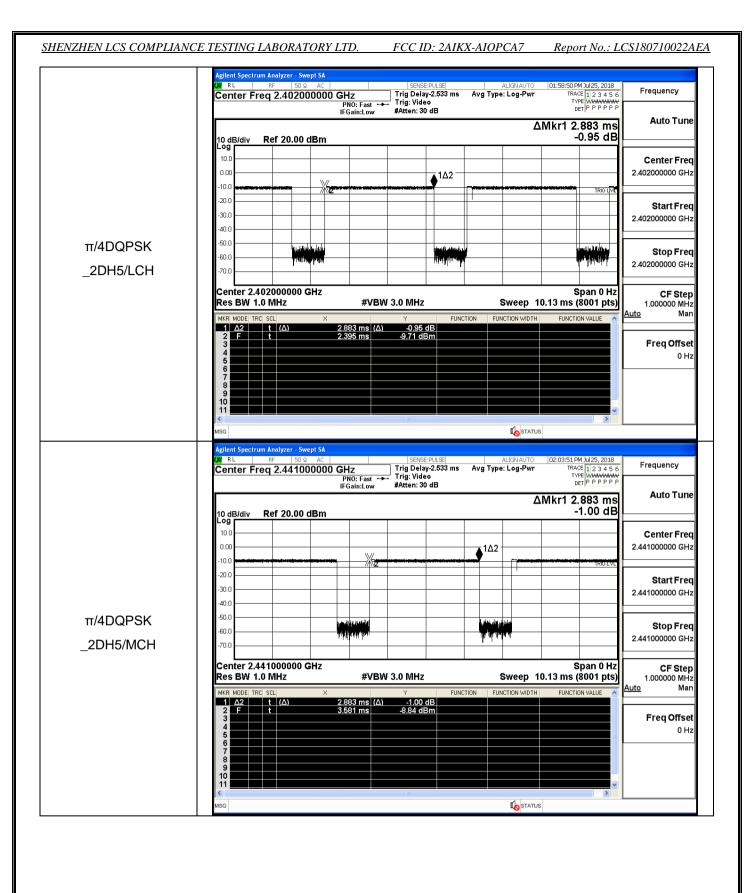
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS
8DPSK	Нор	79	>=15	PASS



#### A.5 Dwell Time

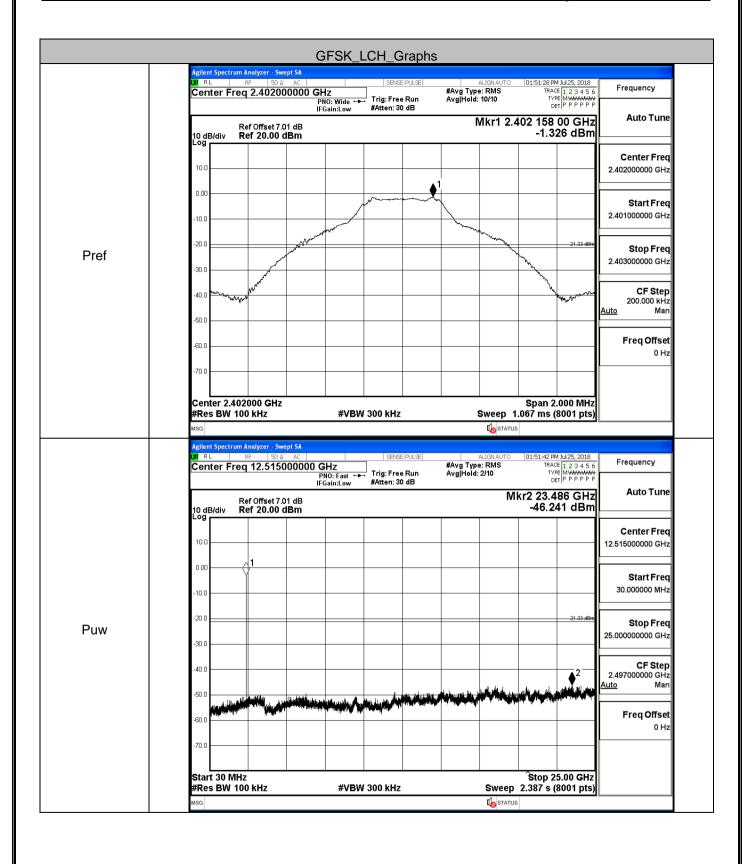
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
	DH5	LCH	2.88	106.7	0.307	0.4	PASS
GFSK	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	НСН	2.88	106.7	0.307	0.4	PASS
	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
π/4DQPSK	2DH5	MCH	2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	2.88	106.7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

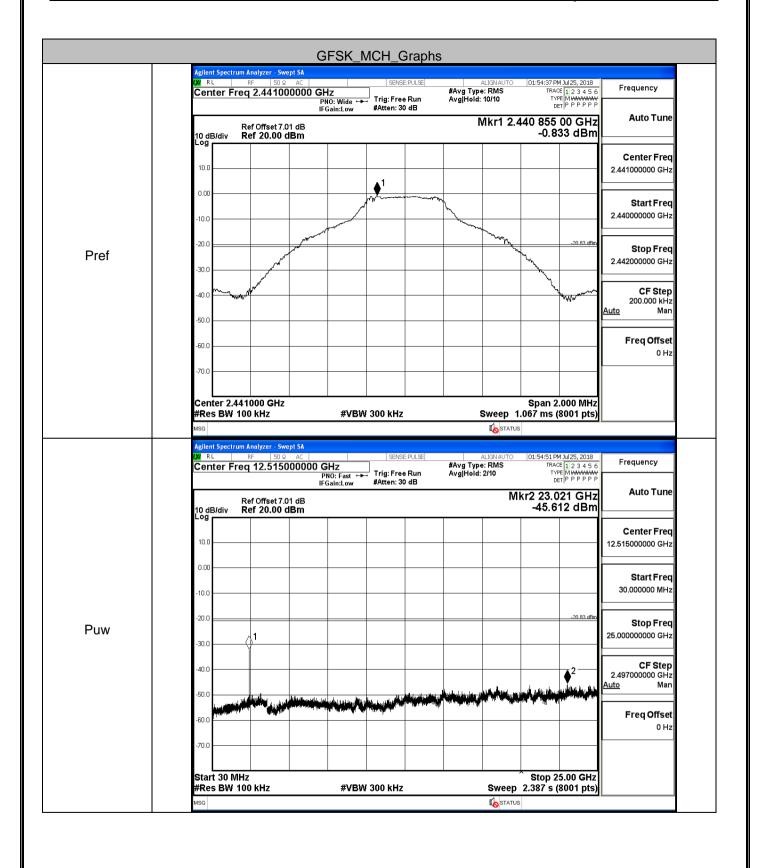


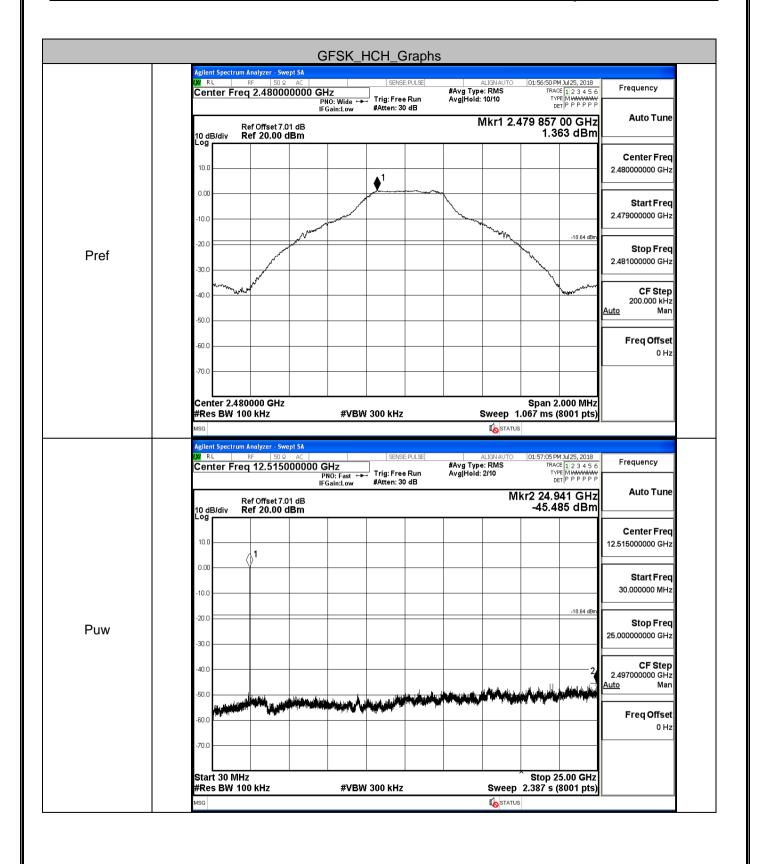


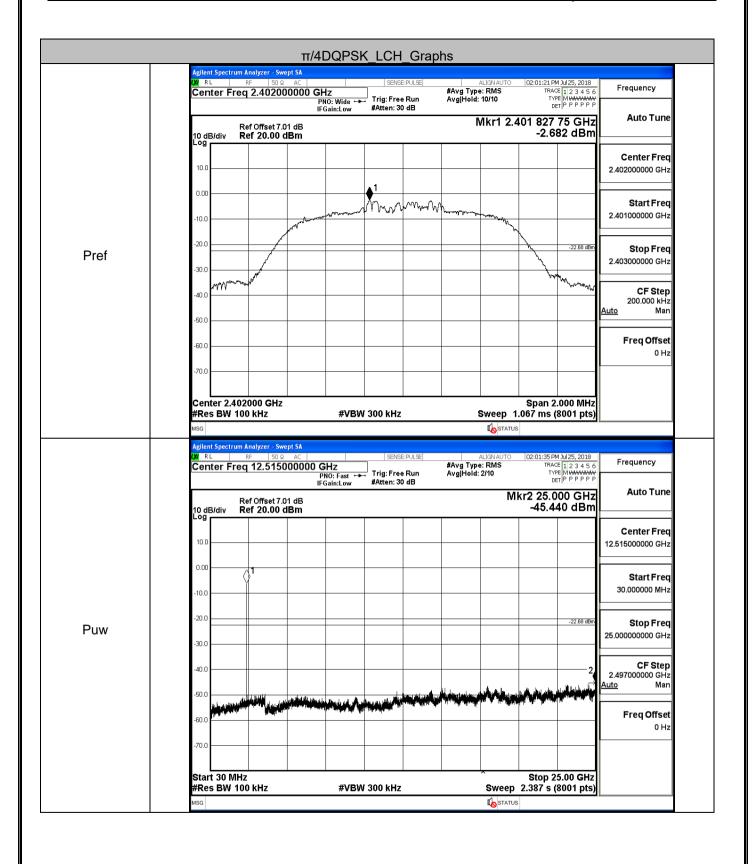
## A.6 RF Conducted Spurious Emissions

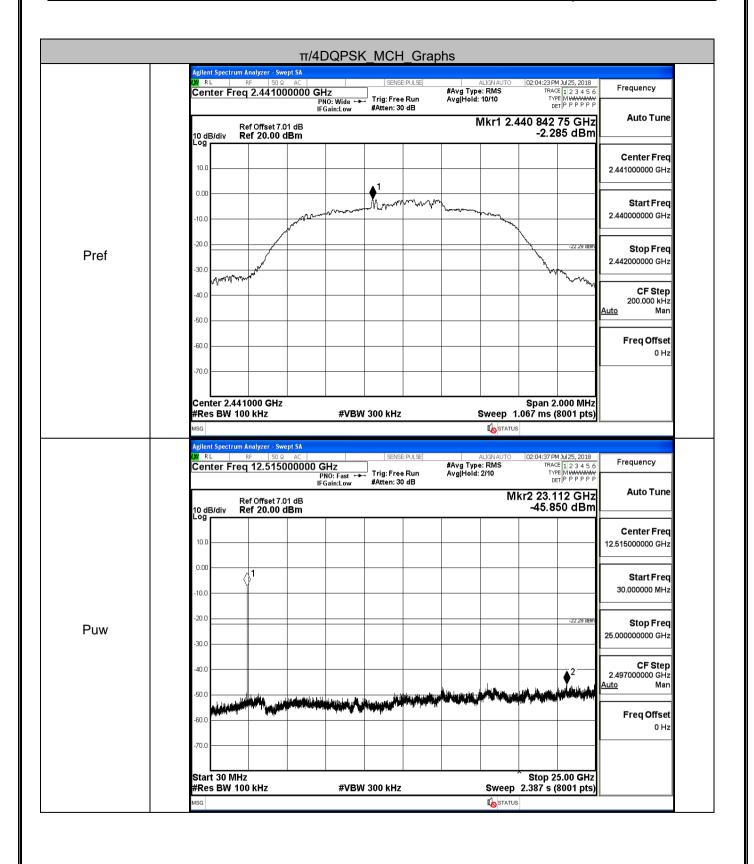
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	-1.326	-46.241	-21.326	PASS
GFSK	MCH	-0.833	-45.612	-20.833	PASS
	HCH	1.363	-45.485	-18.637	PASS
	LCH	-2.682	-45.440	-22.682	PASS
π/4DQPSK	MCH	-2.285	-45.850	-22.285	PASS
	НСН	0.152	-45.341	-19.848	PASS
	LCH	-2.712	-45.870	-22.712	PASS
8DPSK	MCH	-1.687	-45.358	-21.687	PASS
	НСН	-0.536	-46.256	-20.536	PASS

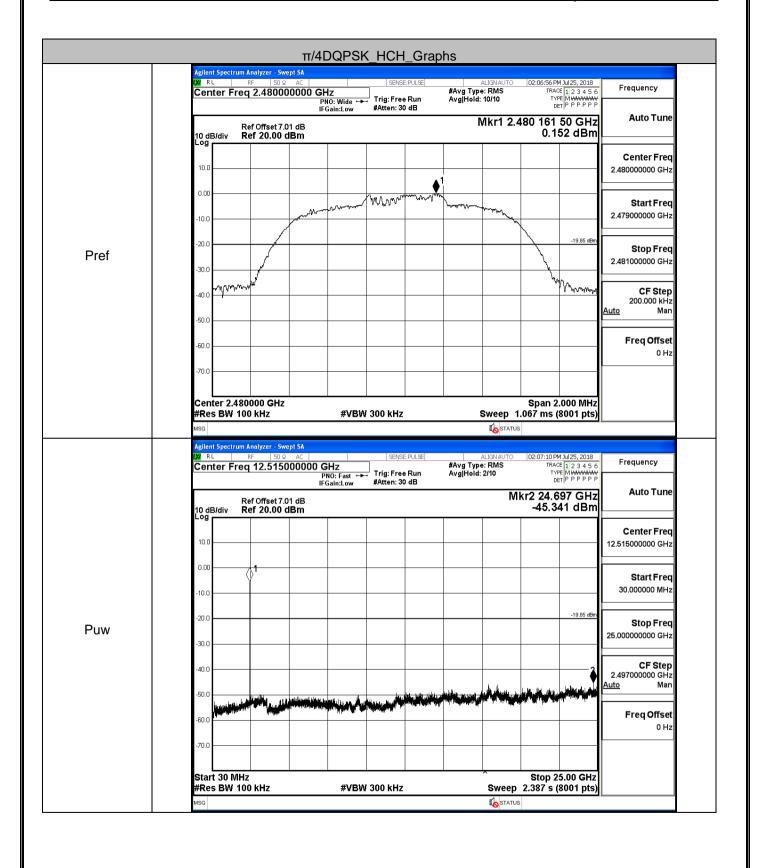


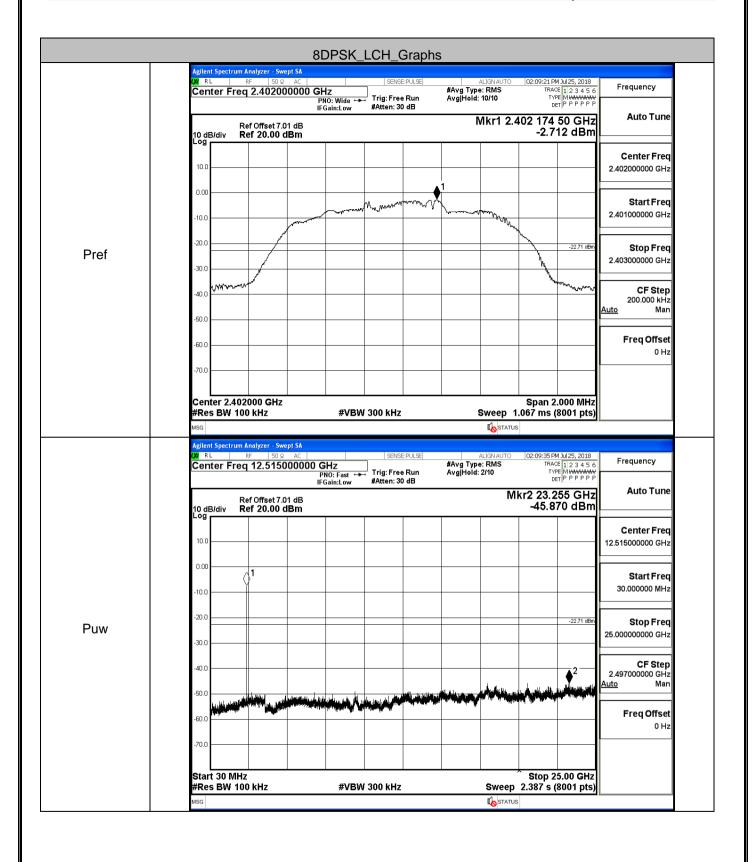


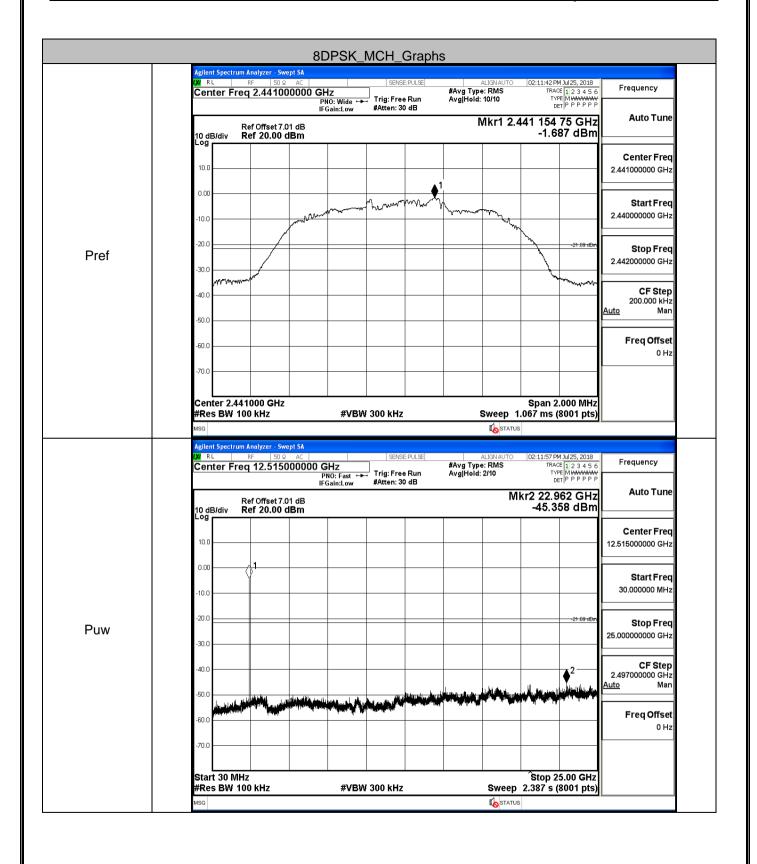


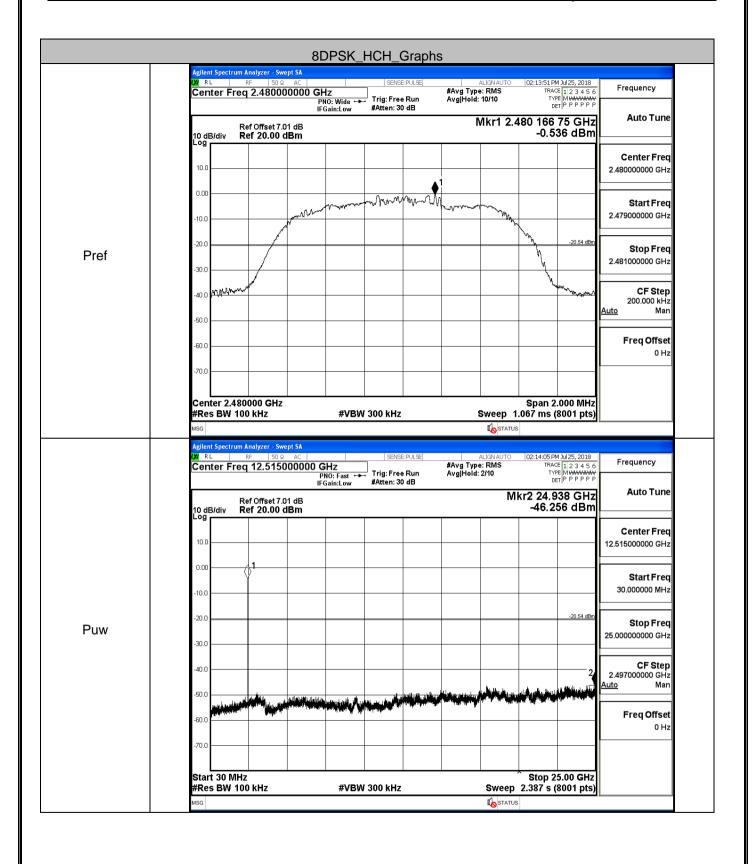






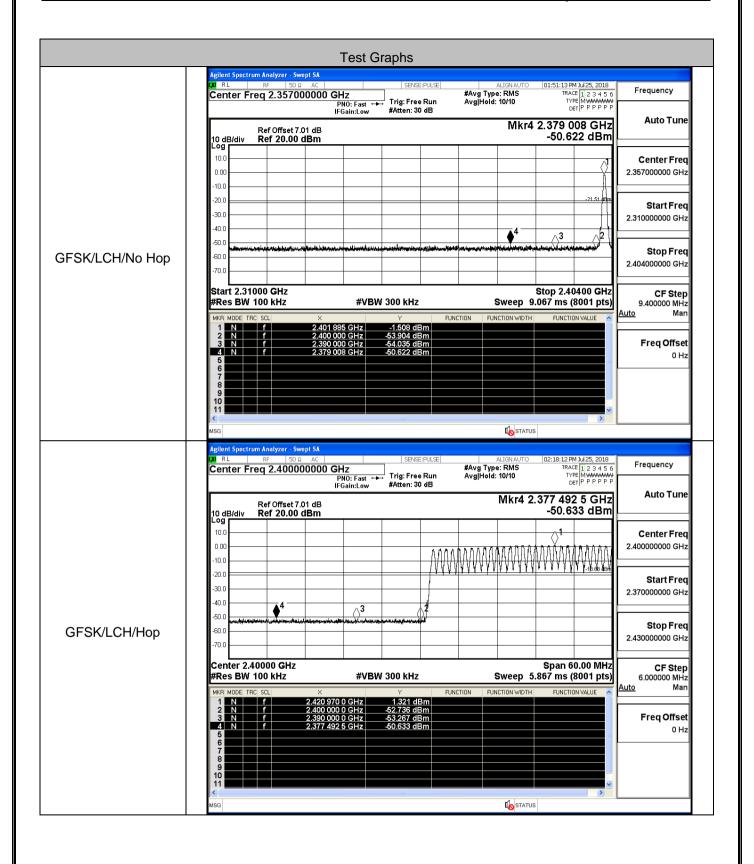


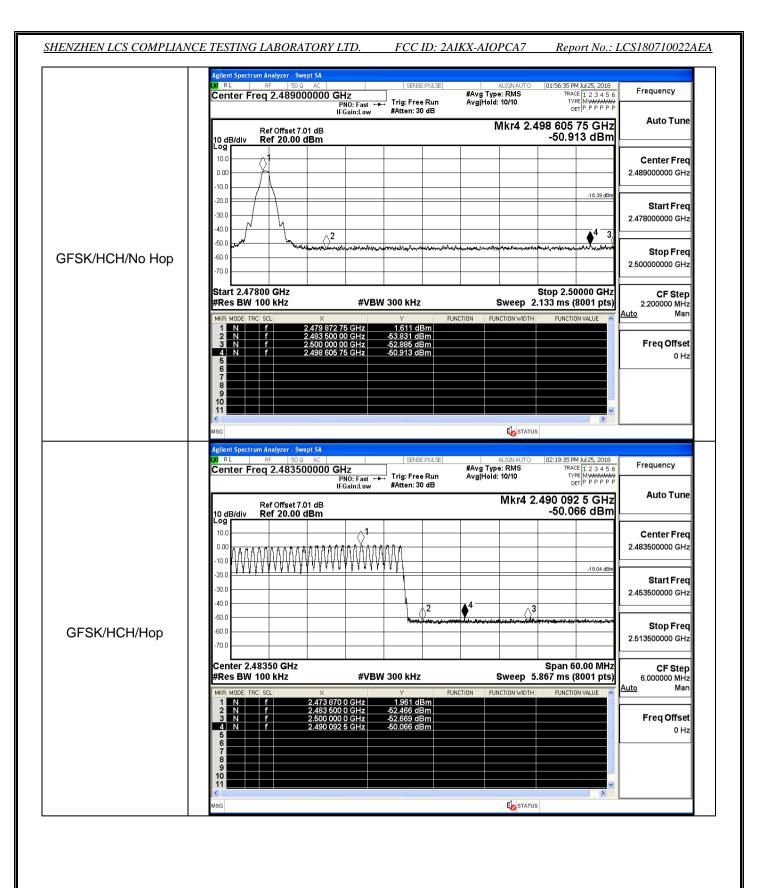


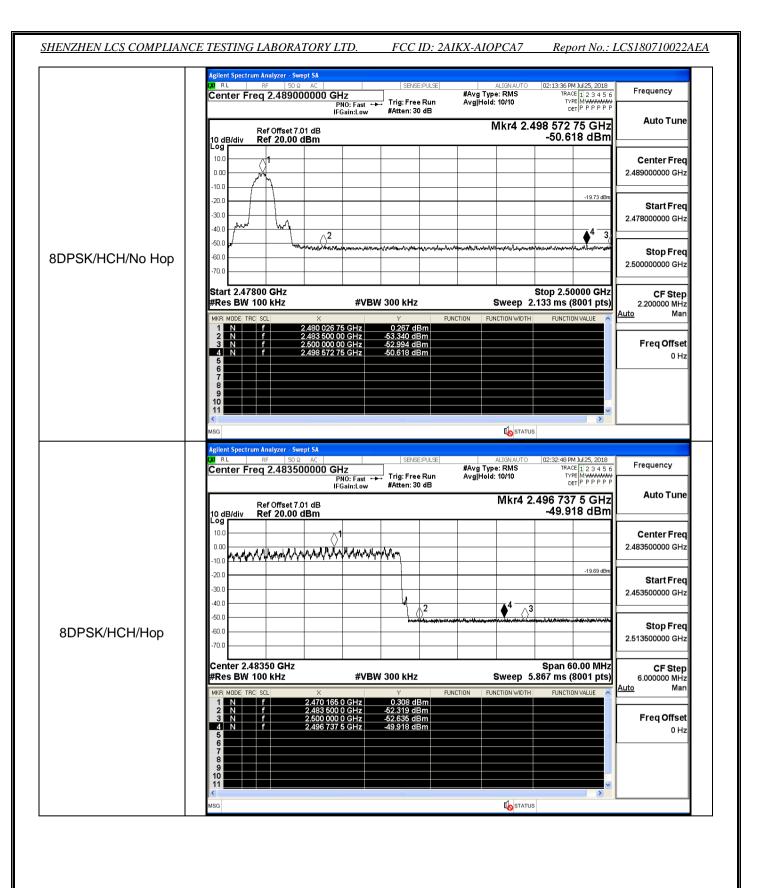


# A.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict				
		0.400	-1.508	Off	-50.622	-21.51	PASS				
2-21/	LCH	2402	1.321	On	-50.633	-18.68	PASS				
GFSK	нсн		1.611	Off	-50.913	-18.39	PASS				
		2480	1.961	On	-50.066	-18.04	PASS				
	LCH						-2.439	Off	-51.131	-22.44	PASS
		2402	-0.135	On	-50.280	-20.14	PASS				
π/4DQPSK	НСН		-0.041	Off	-50.209	-20.04	PASS				
		2480	0.464	On	-50.344	-19.54	PASS				
			-2.521	Off	-50.595	-22.52	PASS				
8DPSK	LCH	2402	-0.028	On	-50.356	-20.03	PASS				
			0.267	Off	-50.618	-19.73	PASS				
	HCH	2480	0.308	On	-49.918	-19.69	PASS				



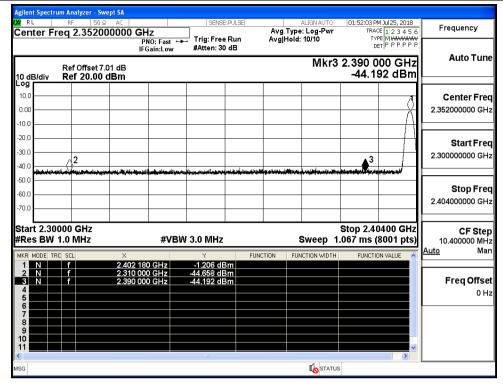




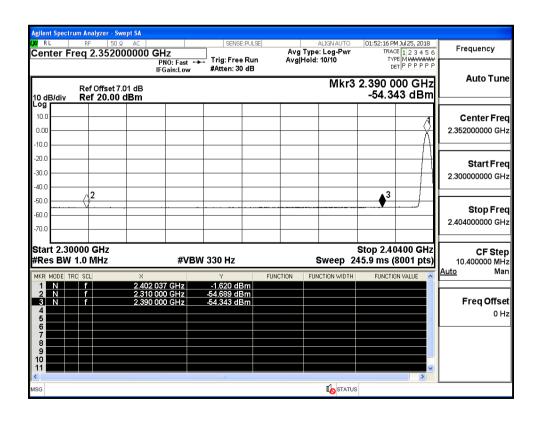
# A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-44.658	2.50	0	53.070	PEAK	74	PASS
	Off	2310.0	-54.699	2.50	0	43.029	AV	54	PASS
	Off	2390.0	-44.192	2.50	0	53.536	PEAK	74	PASS
	Off	2390.0	-54.343	2.50	0	43.385	AV	54	PASS
GFSK	Off	2483.5	-43.998	2.50	0	53.730	PEAK	74	PASS
	Off	2483.5	-53.655	2.50	0	44.073	AV	54	PASS
	Off	2500.0	-43.632	2.50	0	54.096	PEAK	74	PASS
	Off	2500.0	-54.069	2.50	0	43.659	AV	54	PASS
	Off	2310.0	-44.174	2.50	0	53.554	PEAK	74	PASS
	Off	2310.0	-54.696	2.50	0	43.032	AV	54	PASS
	Off	2390.0	-44.394	2.50	0	53.334	PEAK	74	PASS
	Off	2390.0	-54.404	2.50	0	43.324	AV	54	PASS
π/4DQPSK	Off	2483.5	-43.849	2.50	0	53.879	PEAK	74	PASS
	Off	2483.5	-54.028	2.50	0	43.700	AV	54	PASS
	Off	2500.0	-44.040	2.50	0	53.688	PEAK	74	PASS
	Off	2500.0	-53.892	2.50	0	43.836	AV	54	PASS
	Off	2310.0	-44.336	2.50	0	53.392	PEAK	74	PASS
	Off	2310.0	-54.671	2.50	0	43.057	AV	54	PASS
	Off	2390.0	-43.079	2.50	0	54.649	PEAK	74	PASS
	Off	2390.0	-54.435	2.50	0	43.293	AV	54	PASS
8DPSK	Off	2483.5	-43.687	2.50	0	54.041	PEAK	74	PASS
	Off	2483.5	-53.956	2.50	0	43.772	AV	54	PASS
	Off	2500.0	-43.346	2.50	0	54.382	PEAK	74	PASS
	Off	2500.0	-53.904	2.50	0	43.824	AV	54	PASS

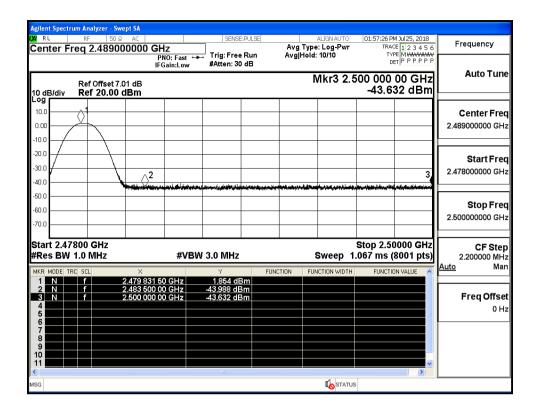




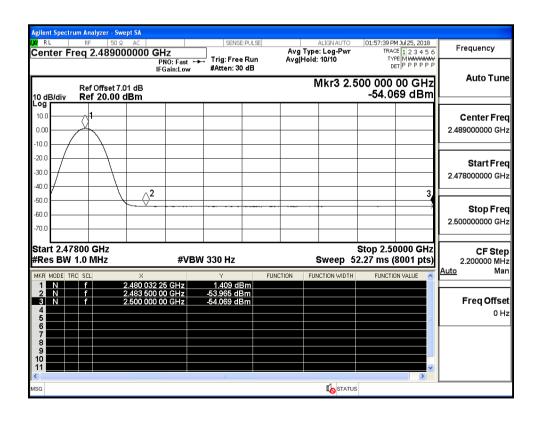
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (Low Channel)



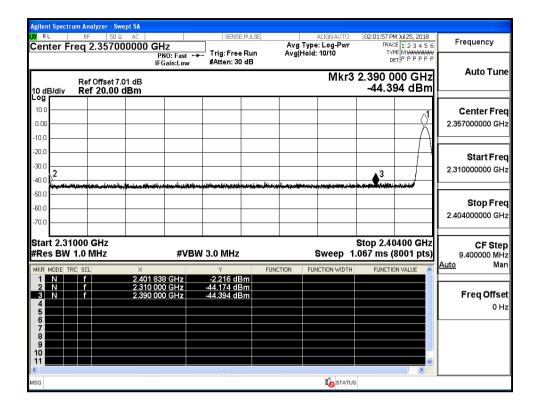
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_PEAK (High Channel)



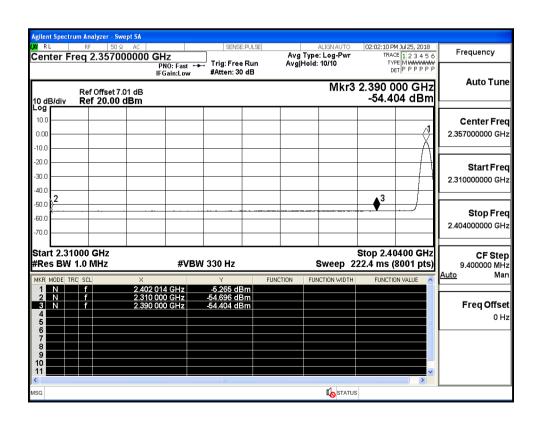
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (High Channel)



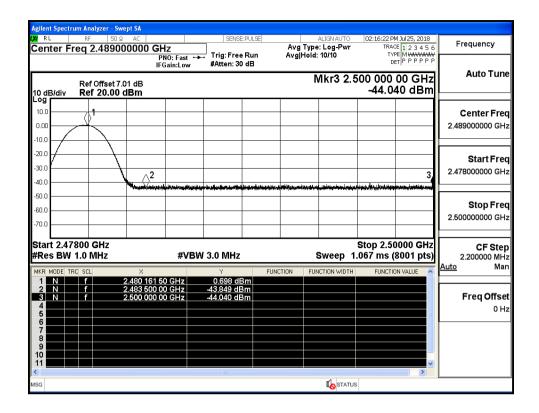
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (Low Channel)



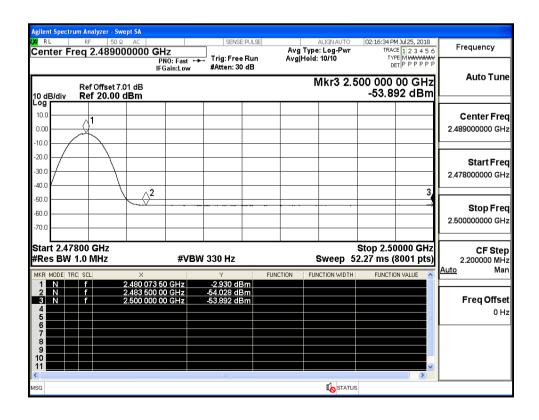
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (Low Channel)



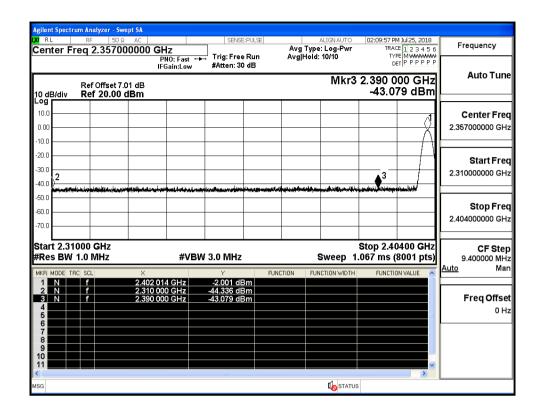
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (High Channel)



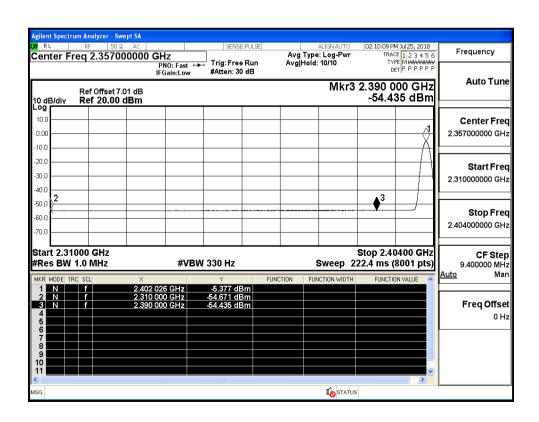
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (High Channel)



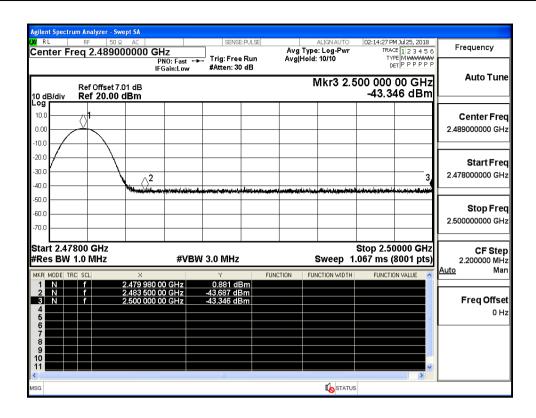
#### Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_PEAK (Low Channel)



#### 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)

