# Appendix A

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

Product Name: Bluetooth voice activated GOOGLE/SIRI speaker **Trade Mark: ILIVE** 

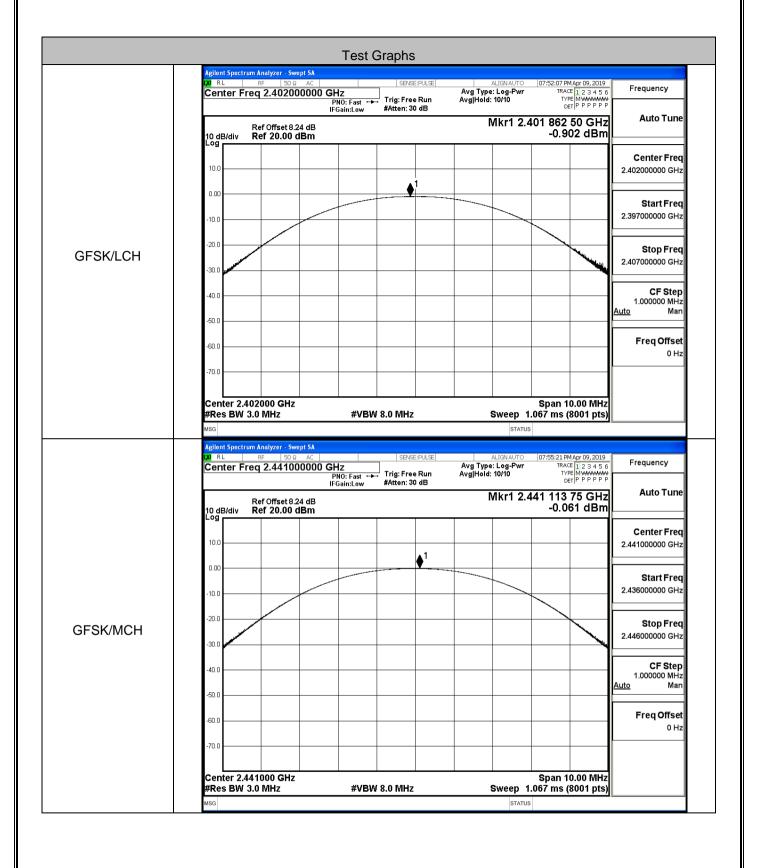
**Test Model: ISBV39** 

#### **Environmental Conditions**

Temperature:	24.5 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	JERRY.ZENG
Supervised by:	Tom.Liu

## A.1 Maximum Conducted Peak Output Power

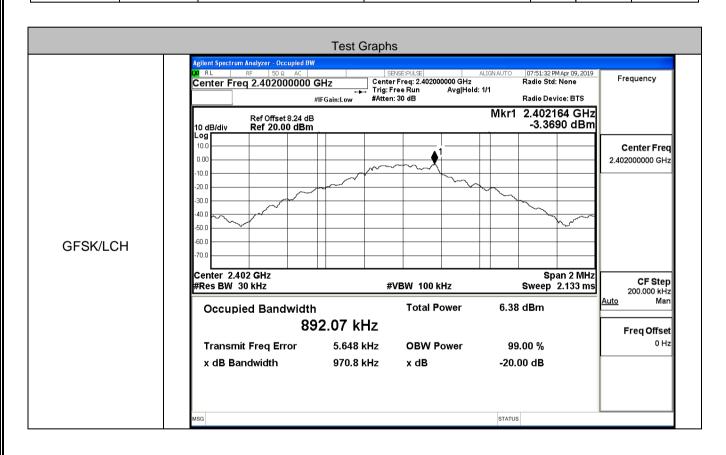
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	-0.902	21	PASS
GFSK	MCH	-0.061	21	PASS
	НСН	-1.013	21	PASS
	LCH	-1.442	21	PASS
π/4DQPSK	MCH	-0.752	21	PASS
	НСН	-1.635	21	PASS
	LCH	-1.294	21	PASS
8DPSK	BDPSK MCH -0.499		21	PASS
	HCH	-1.447	21	PASS



STATUS

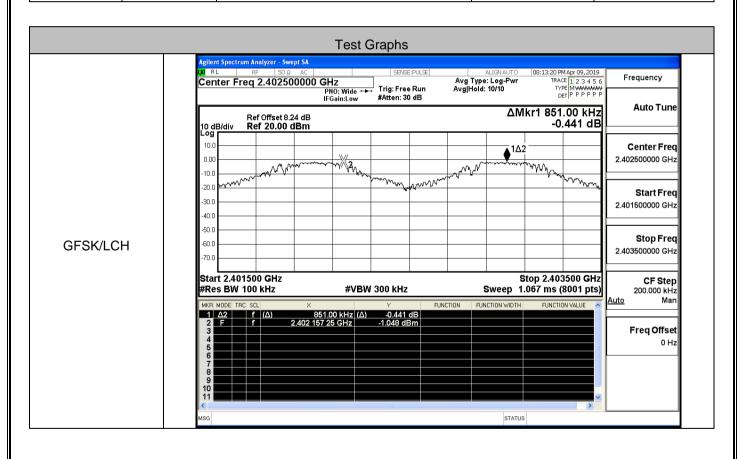
#### A.2 99% and 20dB Bandwidth

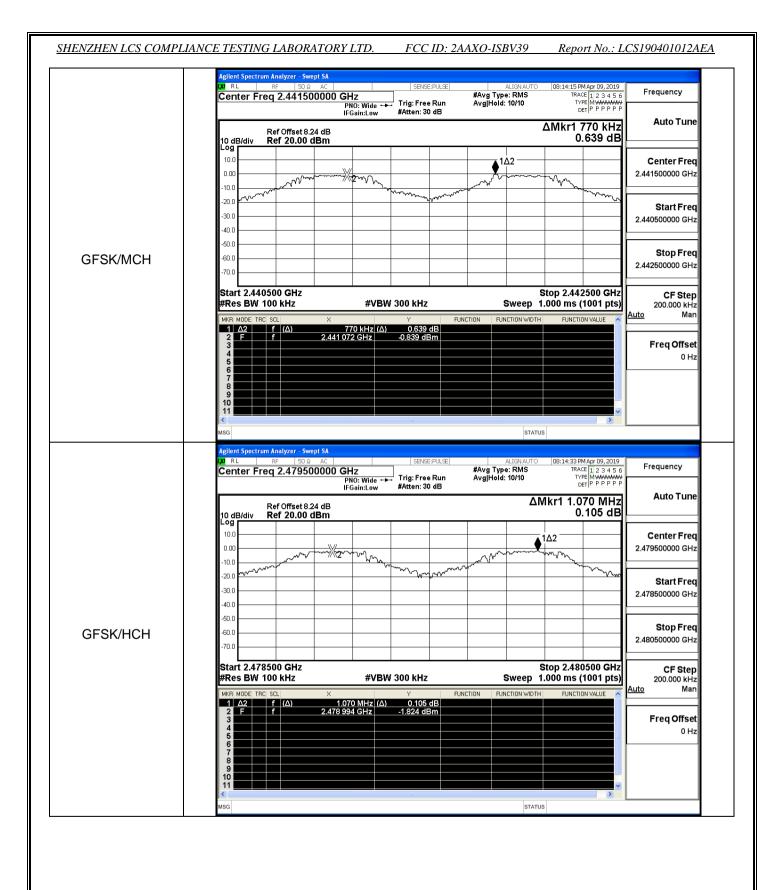
Mode	Channel.	99% Bandwidth [MHz]	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	0.89207	0.9708	Not Specified	PASS
GFSK	MCH	0.89418	0.9676	Not Specified	PASS
	HCH	0.89838	0.9666	Not Specified	PASS
	LCH	1.1770	1.292	Not Specified	PASS
π/4DQPSK	MCH	1.1733	1.292	Not Specified	PASS
	HCH	1.1725	1.307	Not Specified	PASS
	LCH	1.1892	1.295	Not Specified	PASS
8DPSK	DPSK MCH 1.18		1.297	Not Specified	PASS
	HCH	1.1855	1.297	Not Specified	PASS

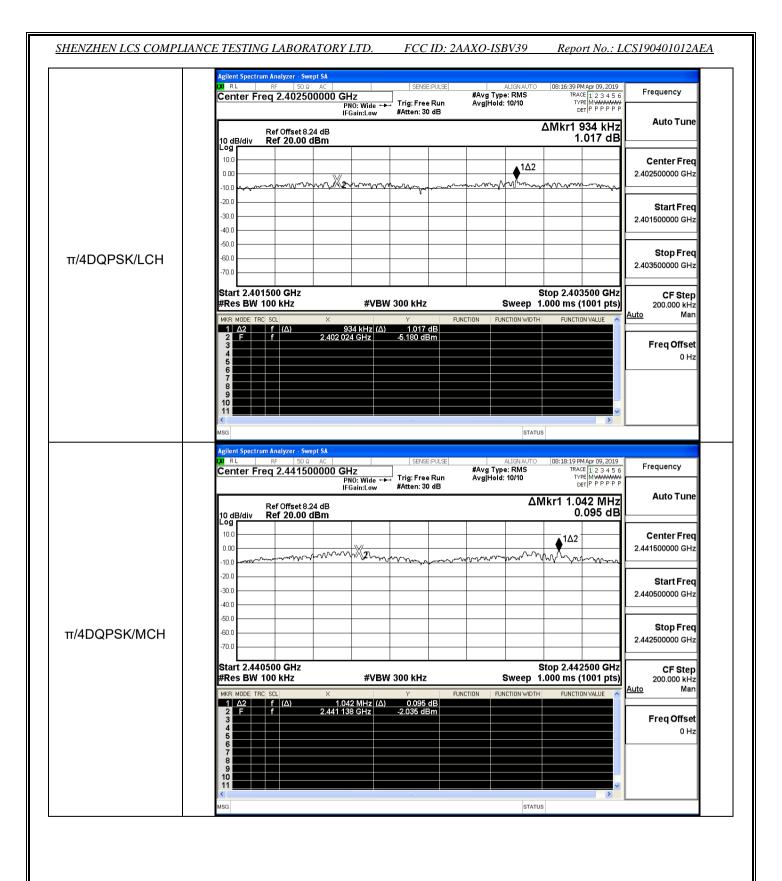


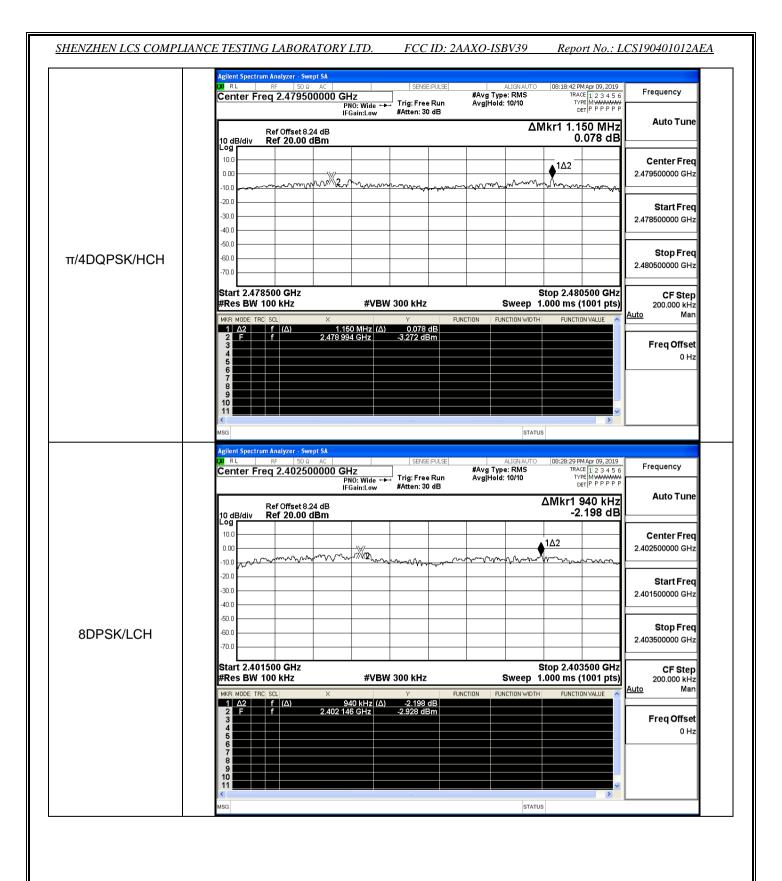
## **A.3 Carrier Frequency Separation**

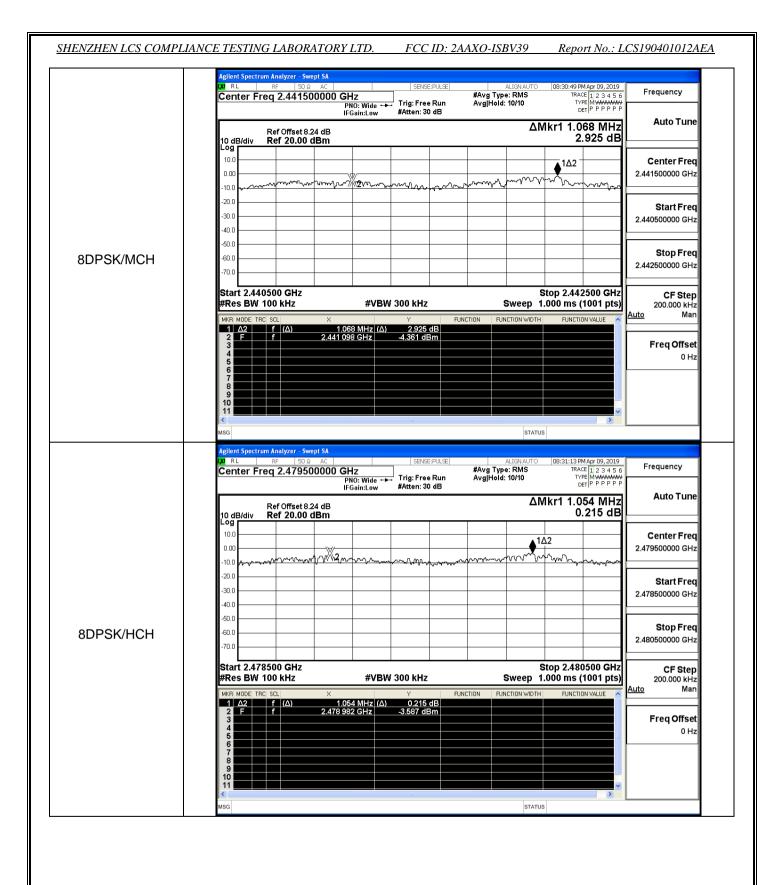
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	0.851	0.647	PASS
GFSK	MCH	0.770	0.647	PASS
	HCH	1.070	0.647	PASS
	LCH	0.934	0.871	PASS
π/4DQPSK	MCH	1.042	0.871	PASS
	HCH	1.150	0.871	PASS
	LCH	0.940	0.865	PASS
8DPSK	MCH	1.068	0.865	PASS
	HCH	1.054	0.865	PASS





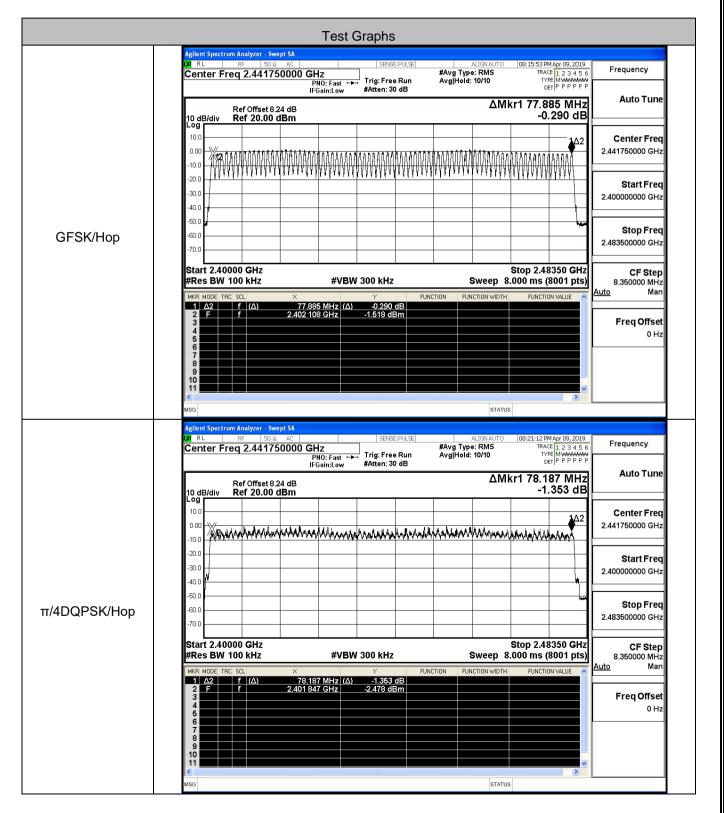






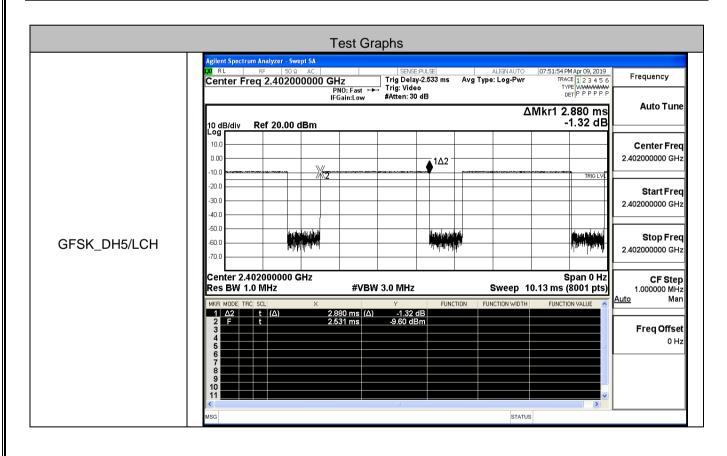
## A.4 Hopping Channel Number

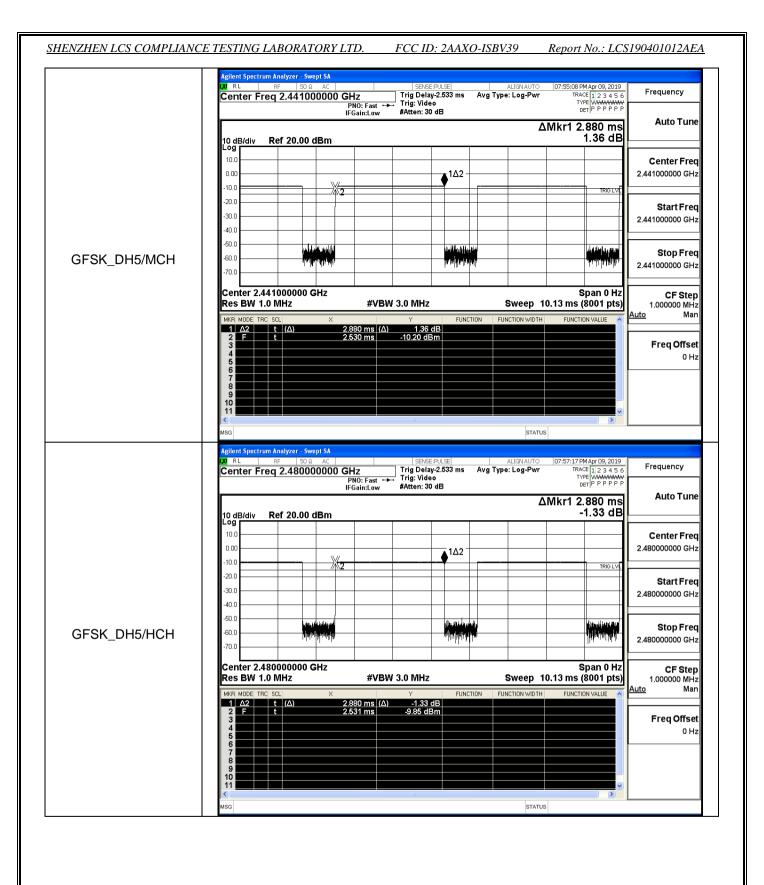
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS
8DPSK	Нор	79	>=15	PASS

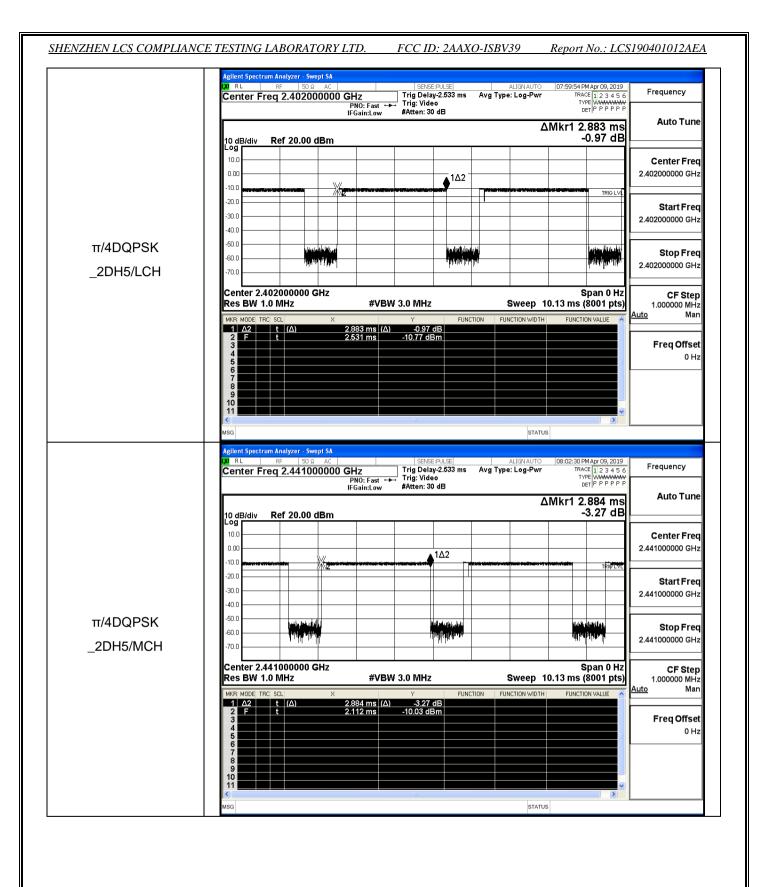


A.5 Dwell Time

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	GFSK DH5 MCH DH5 HCH		2.88	106.7	0.307	0.4	PASS
			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

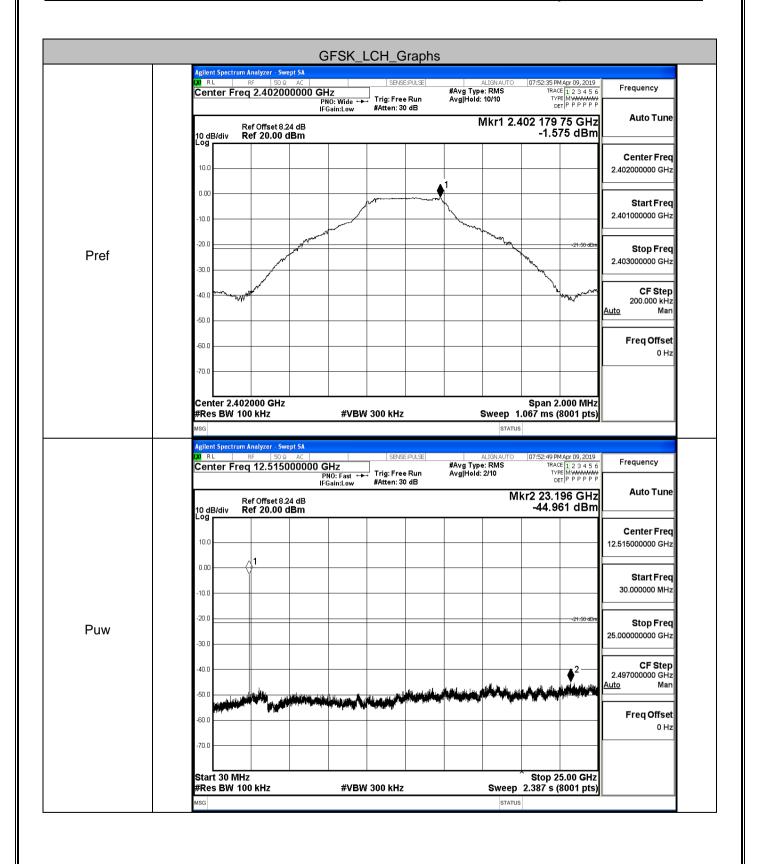


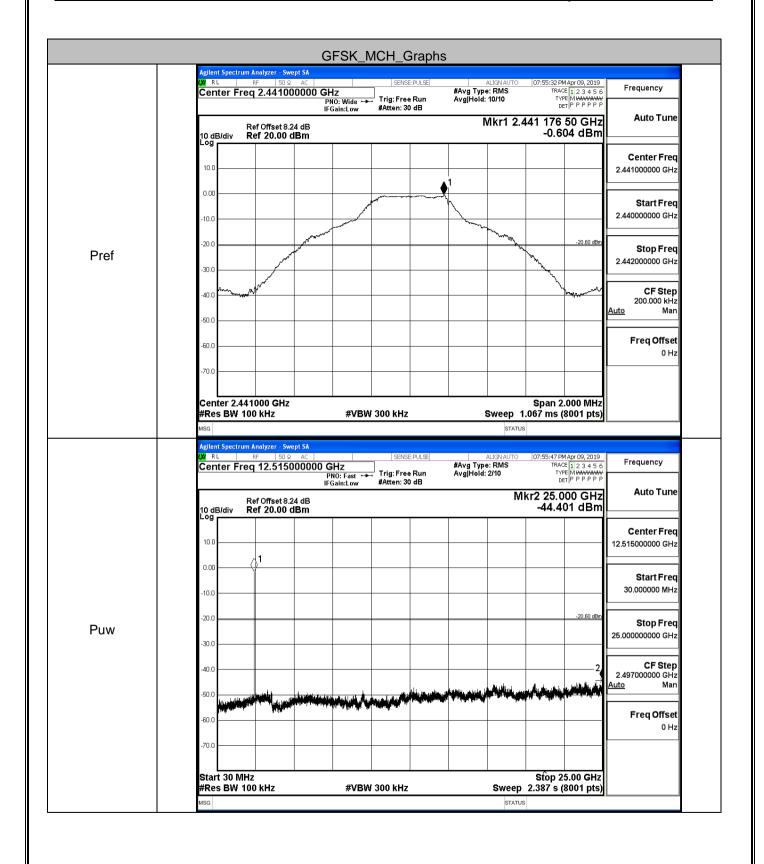


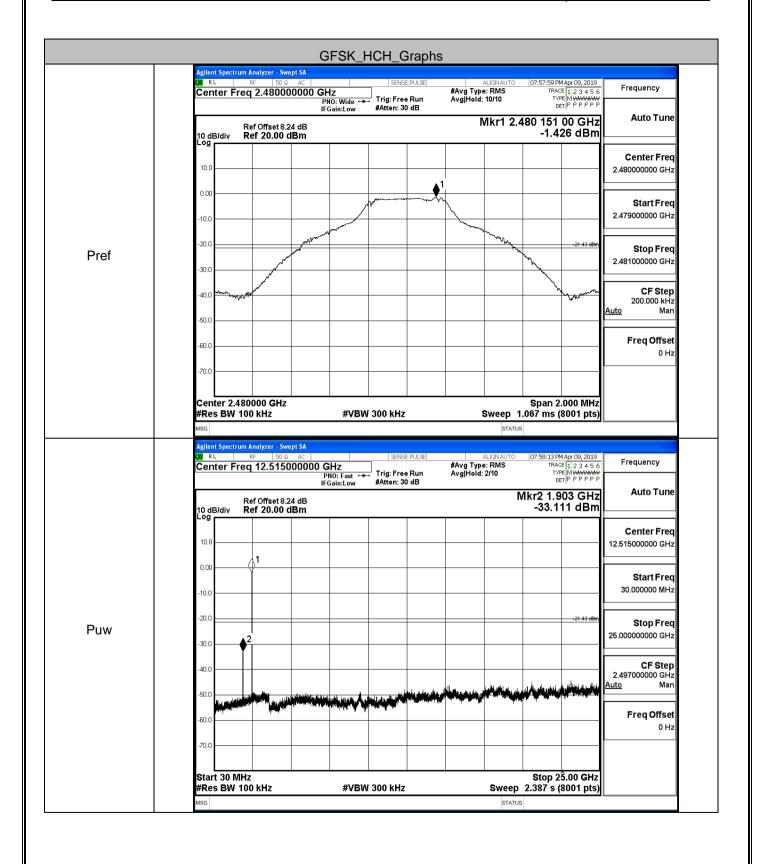


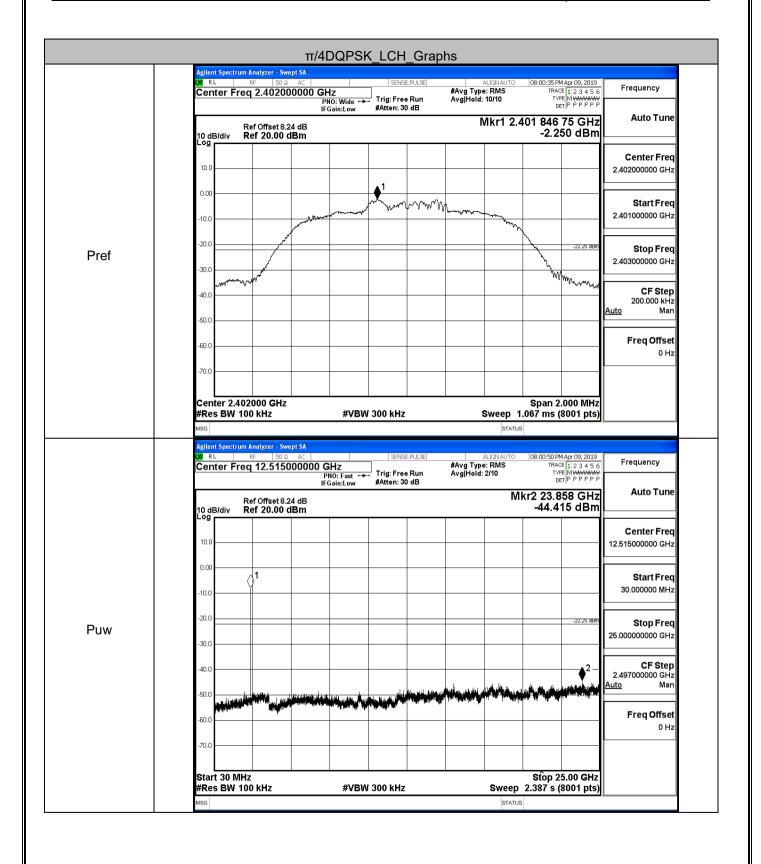
# A.6 RF Conducted Spurious Emissions

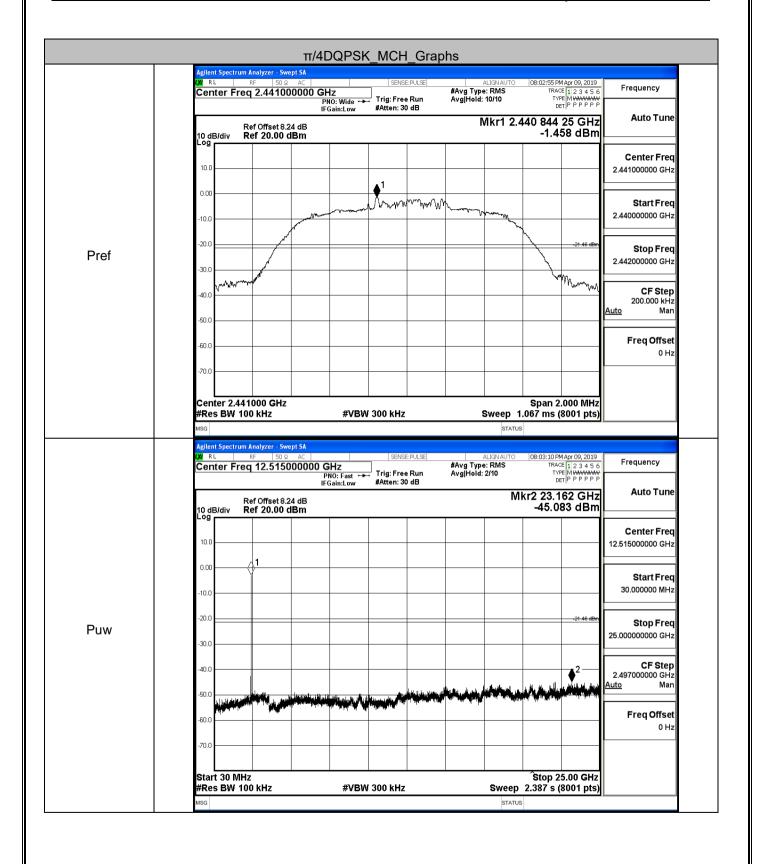
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	-1.575	-44.961	-21.575	PASS
GFSK	MCH	-0.604	-44.401	-20.604	PASS
	НСН	-1.426	-33.111	-21.426	PASS
	LCH	-2.25	-44.415	-22.250	PASS
π/4DQPSK	MCH	-1.458	-45.083	-21.458	PASS
	НСН	-2.457	-44.068	-22.457	PASS
	LCH	-2.175	-44.666	-22.175	PASS
8DPSK	MCH	-1.364	-44.678	-21.364	PASS
	HCH	-2.368	-44.466	-22.368	PASS

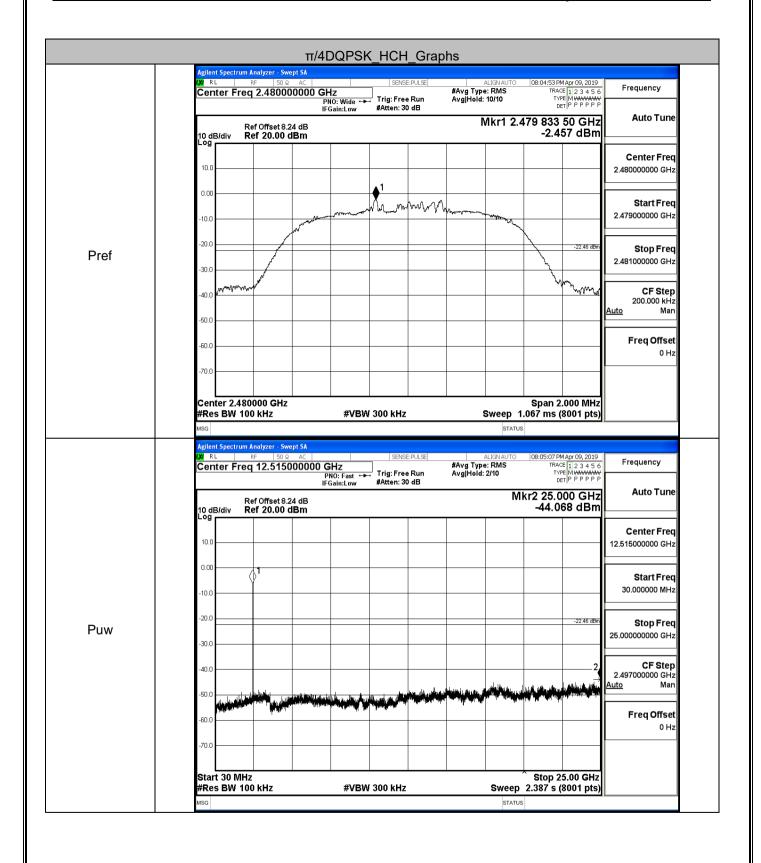


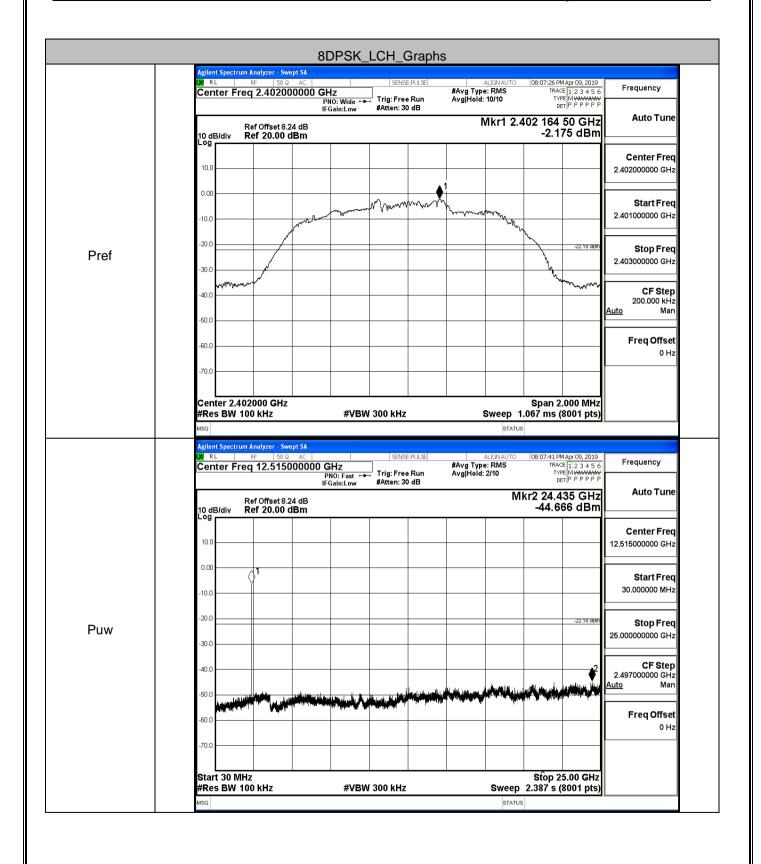


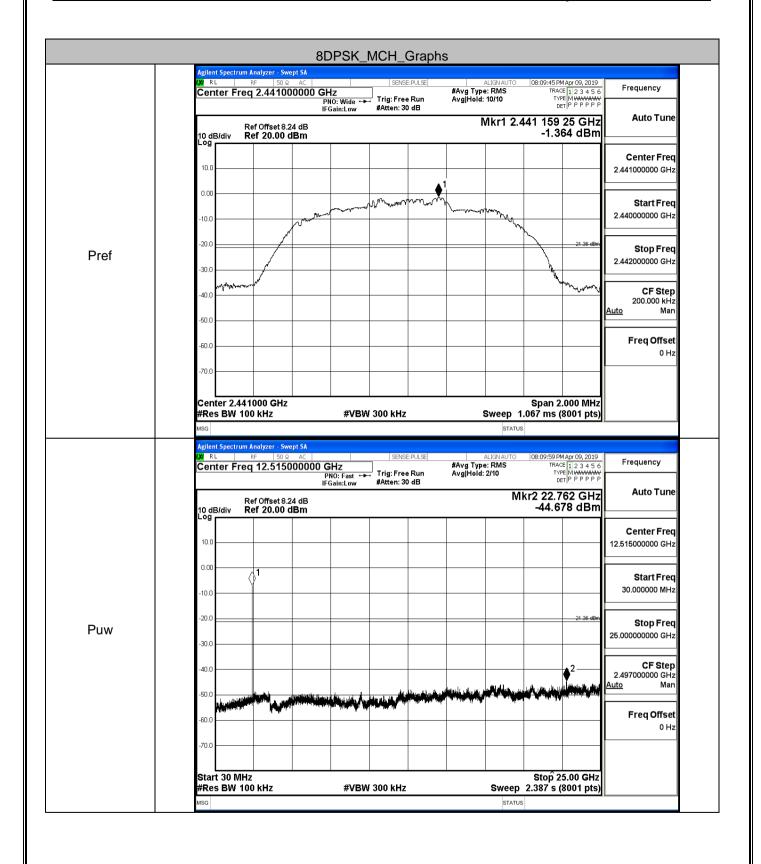


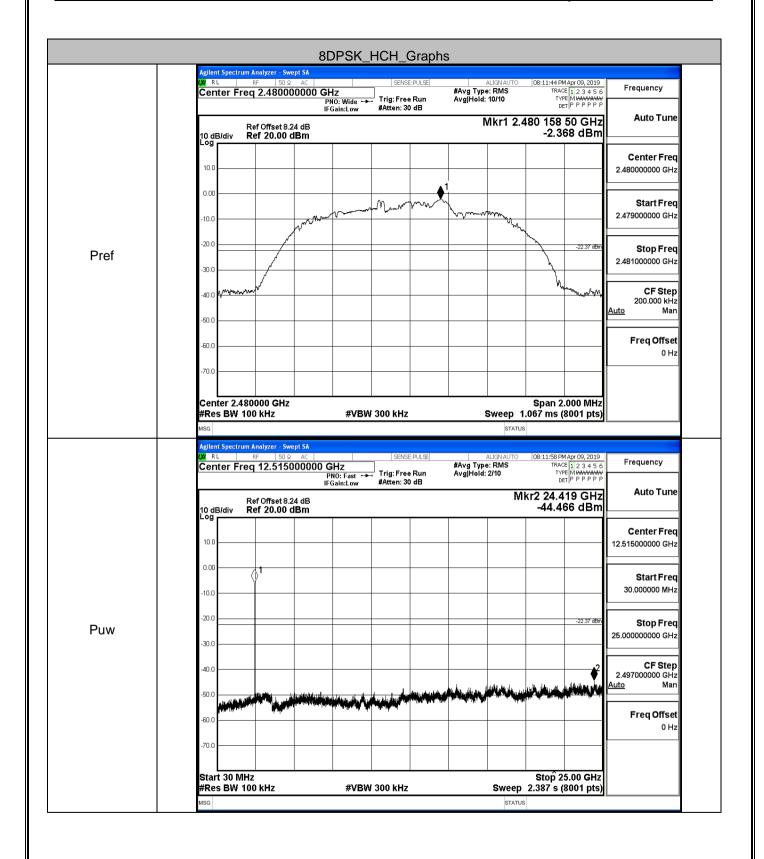






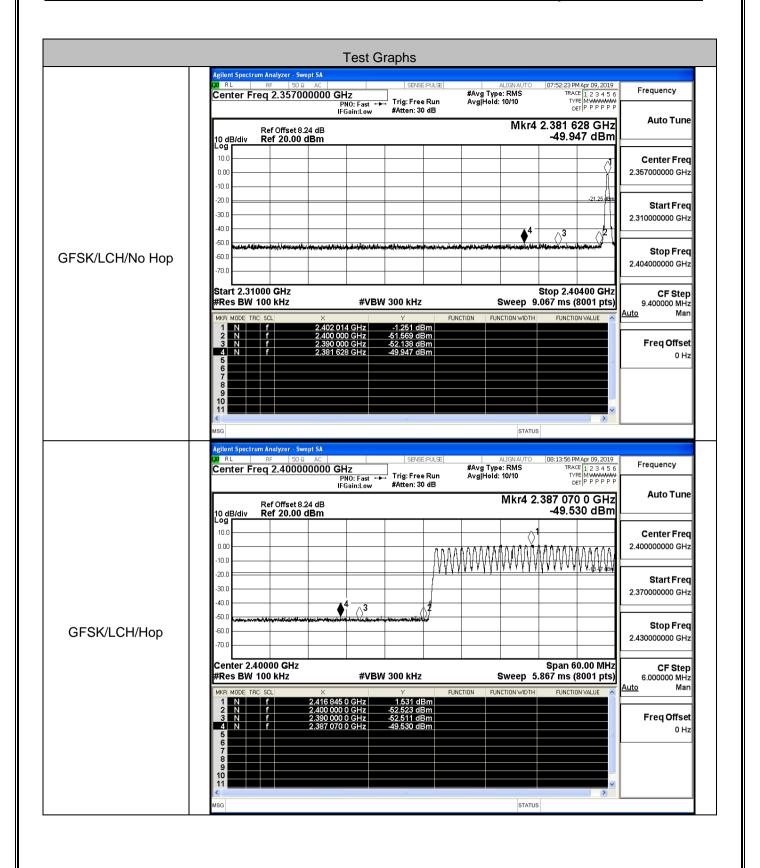


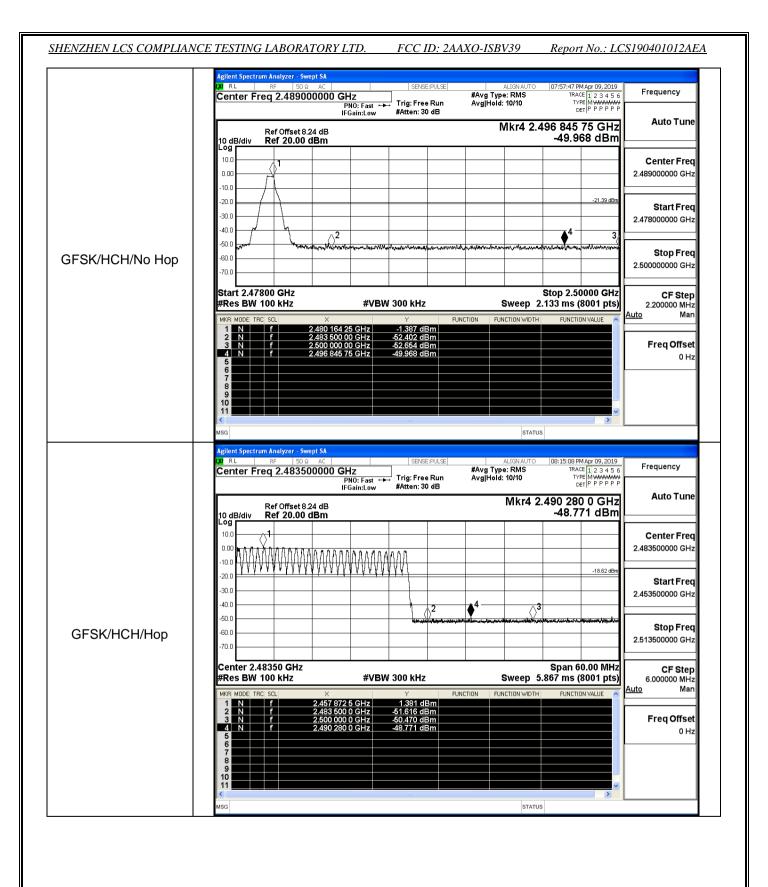


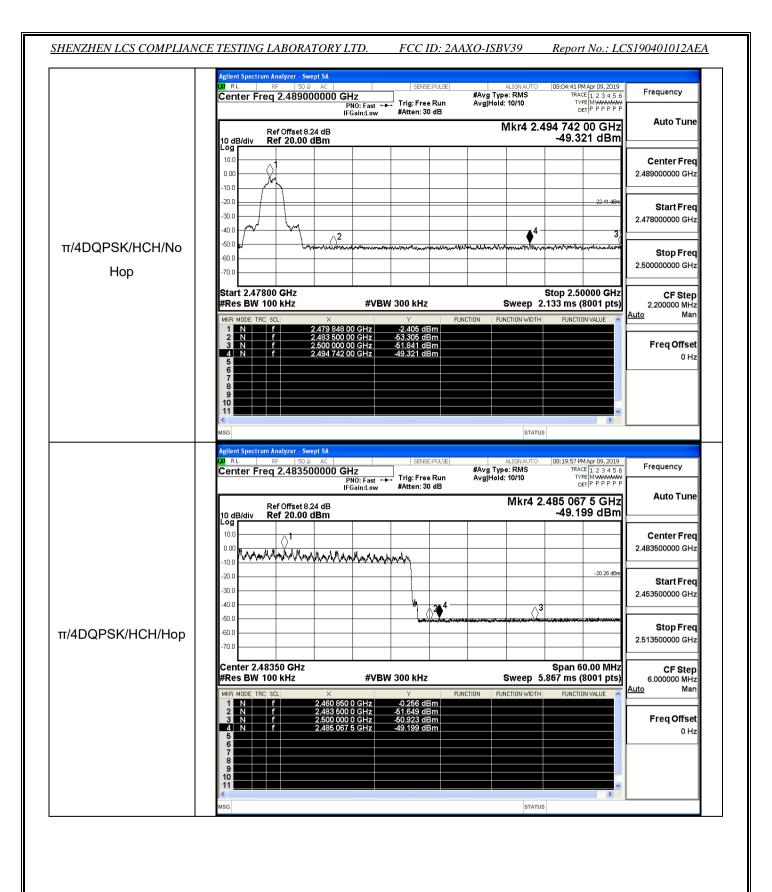


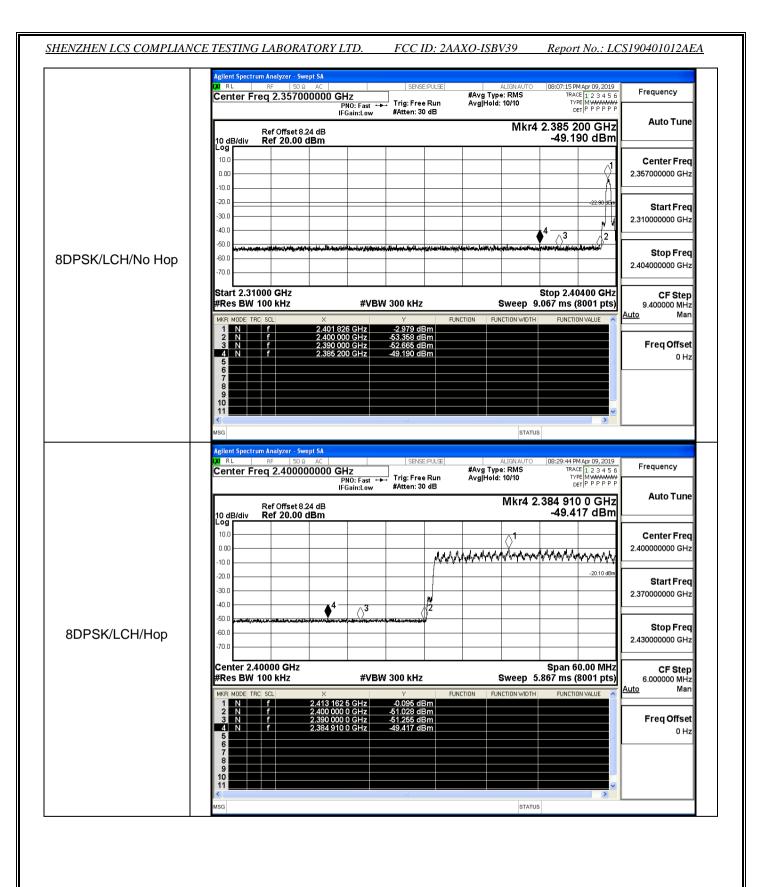
# A.7 Band-edge for RF Conducted Emissions

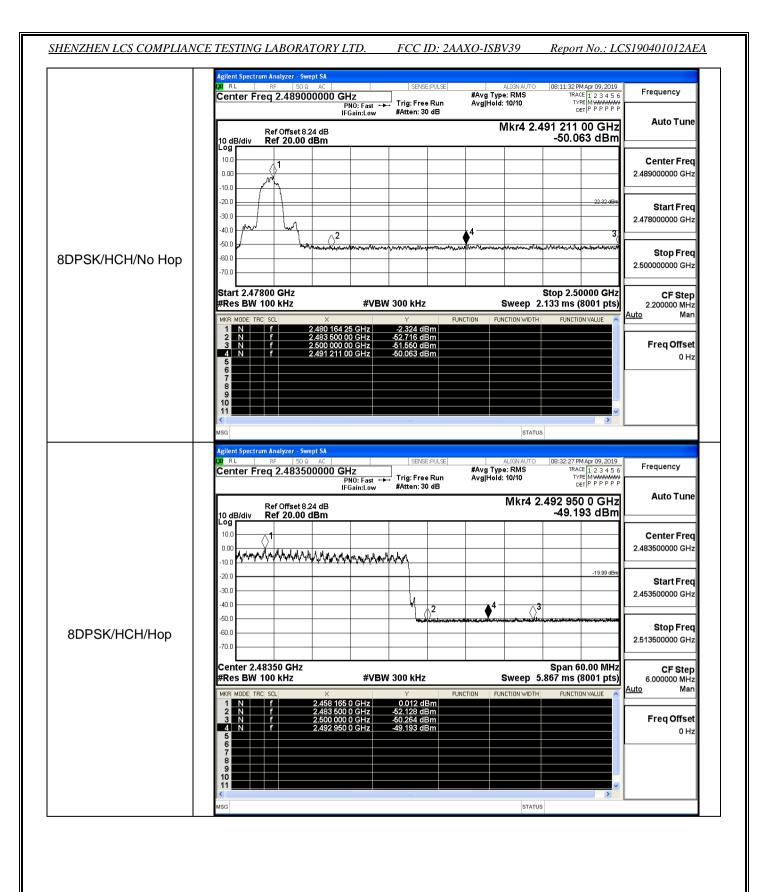
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict	
			-1.251	Off	-49.947	-21.25	PASS	
2-21/	LCH	2402	1.531	On	-49.530	-18.47	PASS	
GFSK			-1.387	Off	-49.968	-21.39	PASS	
	HCH	2480	1.381	On	-48.771	-18.62	PASS	
	LCH			-4.186	Off	-49.904	-24.19	PASS
		2402	-0.164	On	-48.895	-20.16	PASS	
π/4DQPSK	НСН	HCH 2480	-2.405	Off	-49.321	-22.41	PASS	
			-0.256	On	-49.199	-20.26	PASS	
			-2.979	Off	-49.190	-22.98	PASS	
	LCH	2402	-0.095	On	-49.417	-20.1	PASS	
8DPSK		2.400	-2.324	Off	-50.063	-22.32	PASS	
	HCH	2480	0.012	On	-49.193	-19.99	PASS	





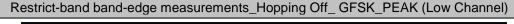


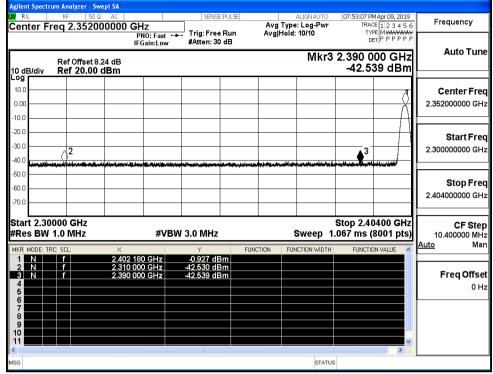




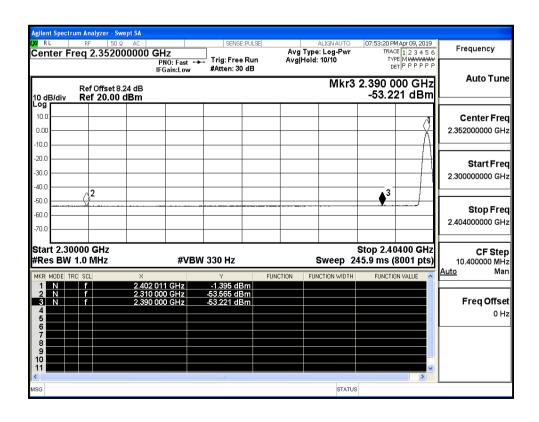
# A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-42.53	2.0	0	54.73	PEAK	74	PASS
	Off	2310.0	-53.57	2.0	0	43.69	AV	54	PASS
	Off	2390.0	-42.54	2.0	0	54.72	PEAK	74	PASS
	Off	2390.0	-53.22	2.0	0	44.04	AV	54	PASS
GFSK	Off	2483.5	-42.07	2.0	0	55.19	PEAK	74	PASS
	Off	2483.5	-52.96	2.0	0	44.30	AV	54	PASS
	Off	2500.0	-42.06	2.0	0	55.20	PEAK	74	PASS
	Off	2500.0	-52.80	2.0	0	44.46	AV	54	PASS
	Off	2310.0	-42.46	2.0	0	54.80	PEAK	74	PASS
	Off	2310.0	-53.38	2.0	0	43.88	AV	54	PASS
	Off	2390.0	-42.94	2.0	0	54.31	PEAK	74	PASS
	Off	2390.0	-53.28	2.0	0	43.97	AV	54	PASS
π/4DQPSK	Off	2483.5	-42.40	2.0	0	54.86	PEAK	74	PASS
	Off	2483.5	-52.94	2.0	0	44.32	AV	54	PASS
	Off	2500.0	-42.35	2.0	0	54.91	PEAK	74	PASS
	Off	2500.0	-52.84	2.0	0	44.42	AV	54	PASS
	Off	2310.0	-42.51	2.0	0	54.75	PEAK	74	PASS
	Off	2310.0	-53.41	2.0	0	43.85	AV	54	PASS
	Off	2390.0	-41.91	2.0	0	55.35	PEAK	74	PASS
	Off	2390.0	-53.29	2.0	0	43.97	AV	54	PASS
8DPSK	Off	2483.5	-42.70	2.0	0	54.56	PEAK	74	PASS
	Off	2483.5	-52.99	2.0	0	44.27	AV	54	PASS
	Off	2500.0	-42.40	2.0	0	54.86	PEAK	74	PASS
	Off	2500.0	-52.82	2.0	0	44.44	AV	54	PASS

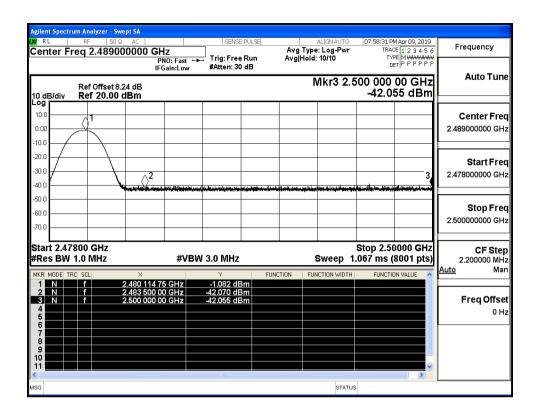




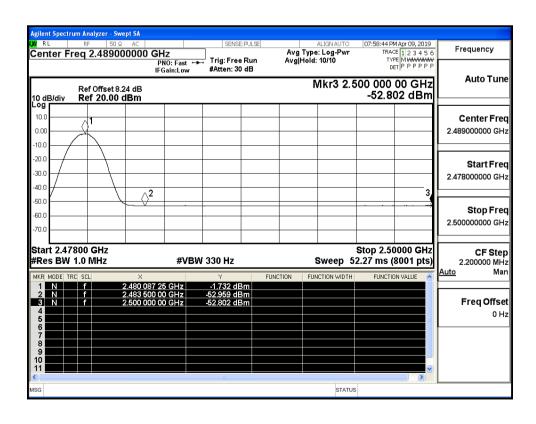
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (Low Channel)



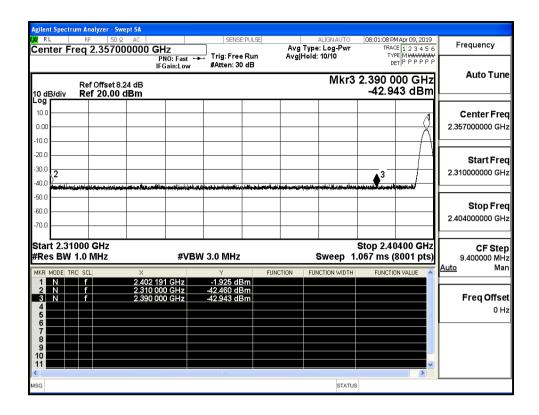
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_PEAK (High Channel)



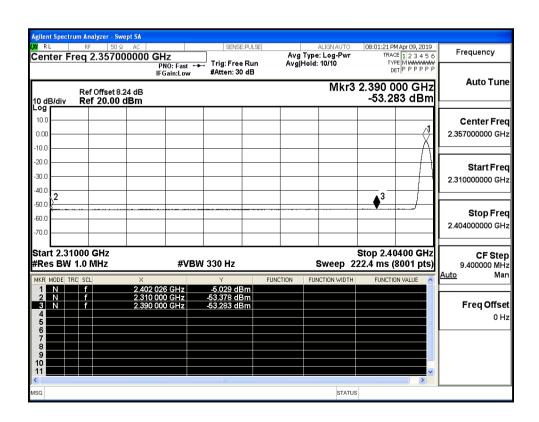
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (High Channel)



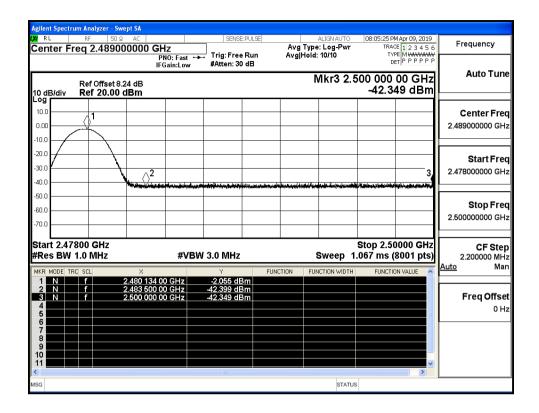
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (Low Channel)



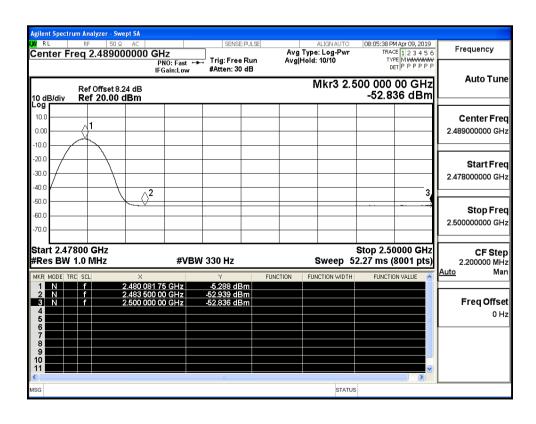
### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (Low Channel)



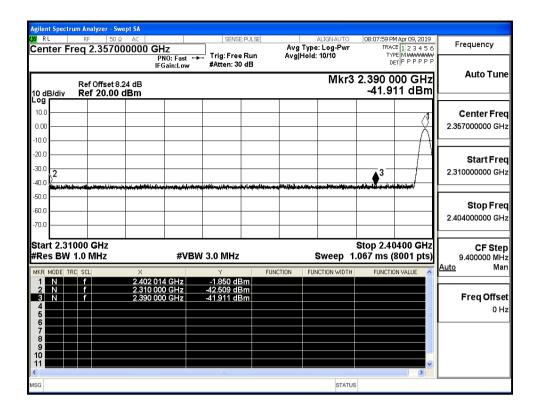
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (High Channel)



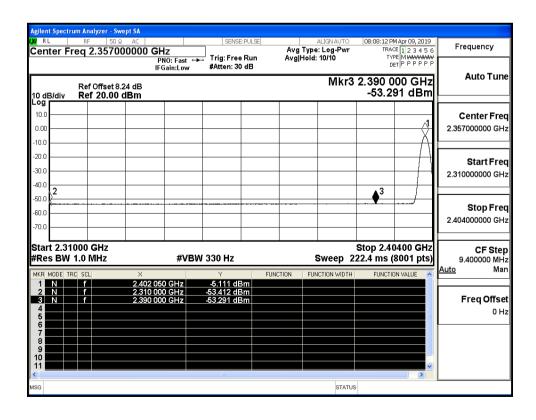
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (High Channel)



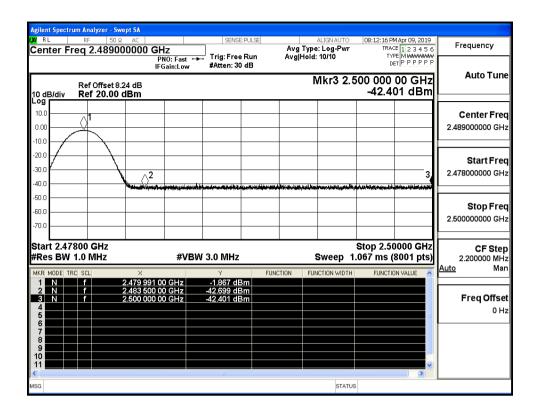
### Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_PEAK (Low Channel)



#### 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)

