# Appendix A

## RF Test Data for BT V3.0(BDR/EDR) (Conducted Measurement) **Product Name: BLUETOOTH SPEAKER** Trade Mark: N/A

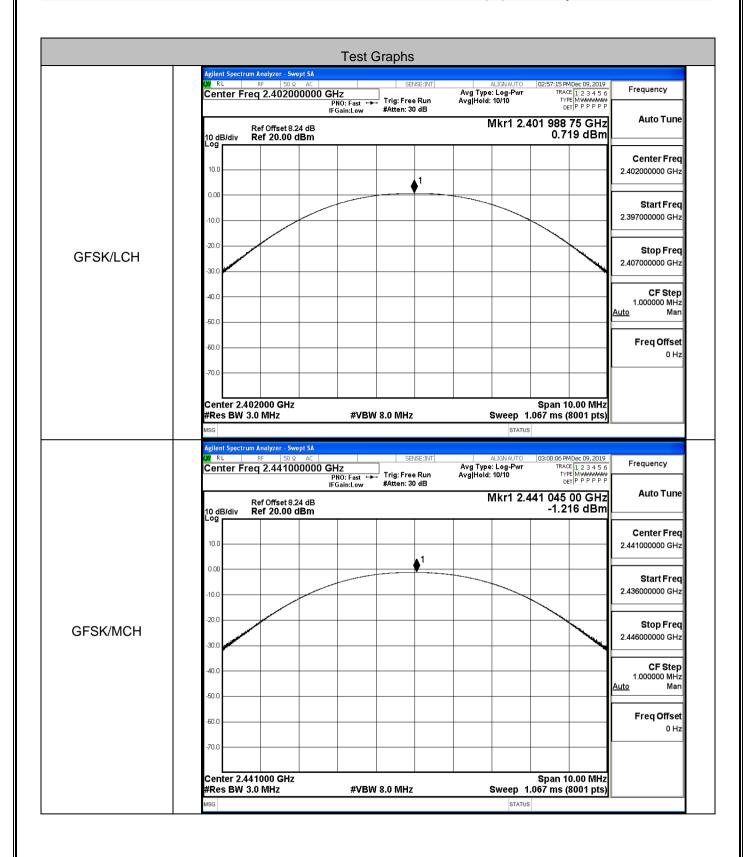
**Test Model: Q8** 

### **Environmental Conditions**

Temperature:	23.5° C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Alisa Huang
Supervised by:	Wang.Chuang

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

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	0.719	21	PASS
GFSK	MCH	-1.216	21	PASS
	НСН	0.076	21	PASS
	LCH	-0.085	21	PASS
π/4DQPSK	MCH	-1.896	21	PASS
	НСН	-0.575	21	PASS
	LCH	0.186	21	PASS
8DPSK	8DPSK MCH -1.628		21	PASS
	HCH	-0.430	21	PASS

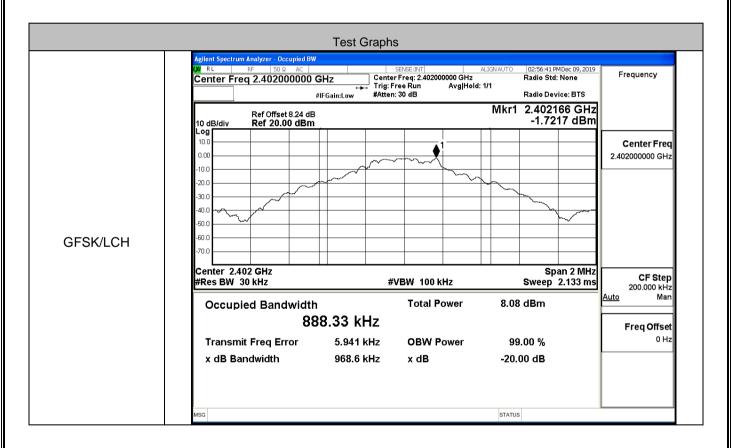


STATUS

### A.2 20dB Bandwidth

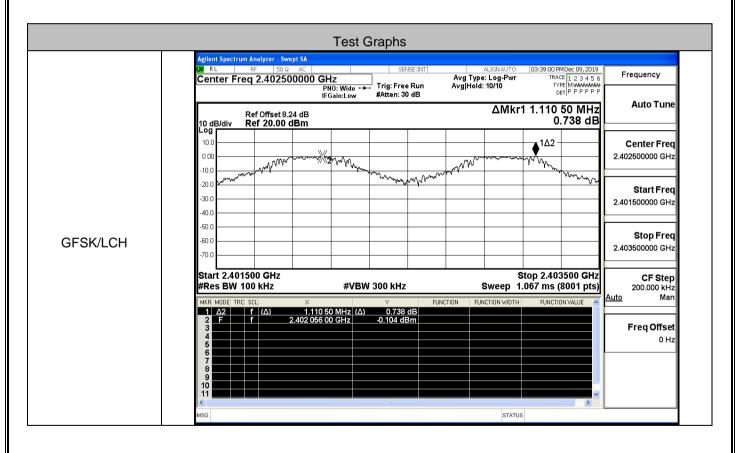
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.

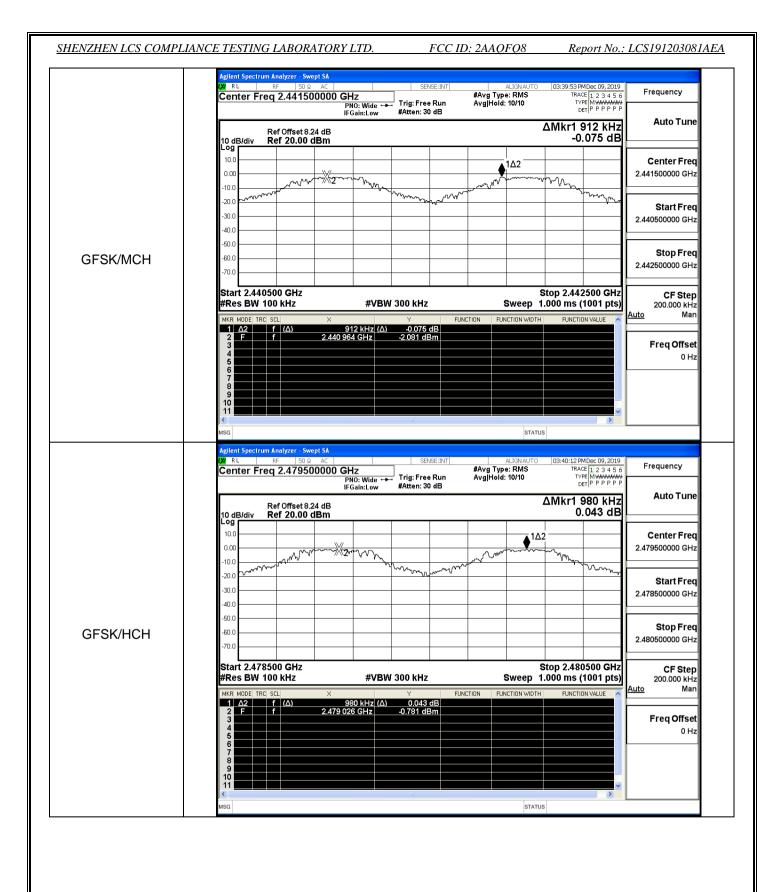
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	0.9686	Not Specified	PASS
GFSK	MCH	1.026	Not Specified	PASS
	HCH	1.028	Not Specified	PASS
	LCH	1.288	Not Specified	PASS
π/4DQPSK	MCH	1.308	Not Specified	PASS
	НСН	1.290	Not Specified	PASS
	LCH	1.291	Not Specified	PASS
8DPSK	MCH	1.296	Not Specified	PASS
	НСН	1.294	Not Specified	PASS

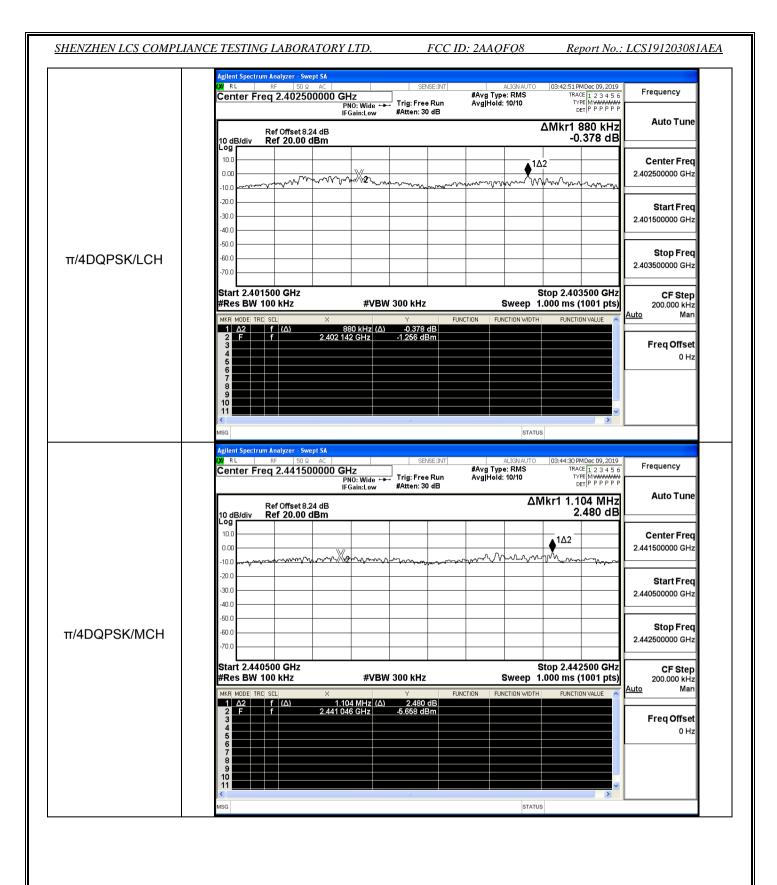


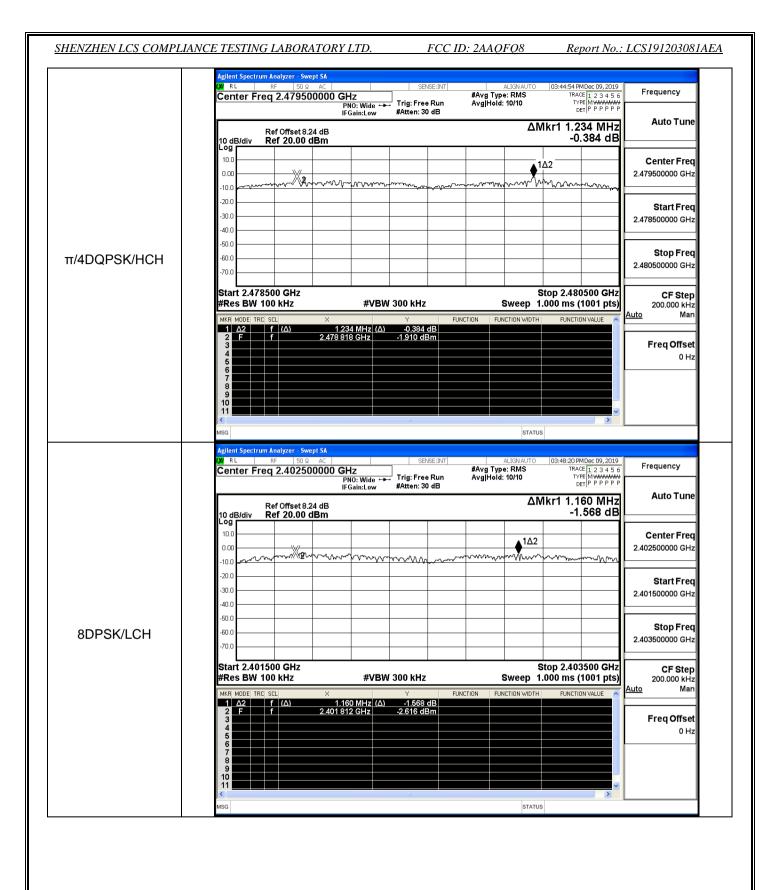
## **A.3 Carrier Frequency Separation**

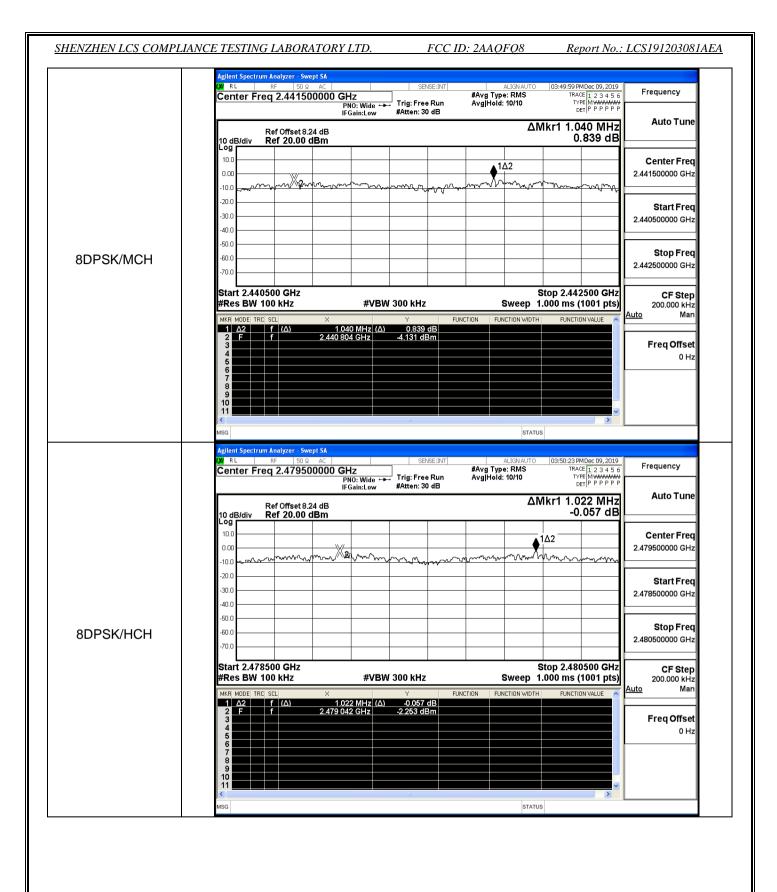
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	1.110	0.685	PASS
GFSK	MCH	0.912	0.685	PASS
	HCH	0.980	0.685	PASS
	LCH	0.880	0.872	PASS
π/4DQPSK	MCH	1.104	0.872	PASS
	HCH	1.234	0.872	PASS
8DPSK	LCH	1.160	0.864	PASS
	MCH	1.040	0.864	PASS
	HCH	1.022	0.864	PASS





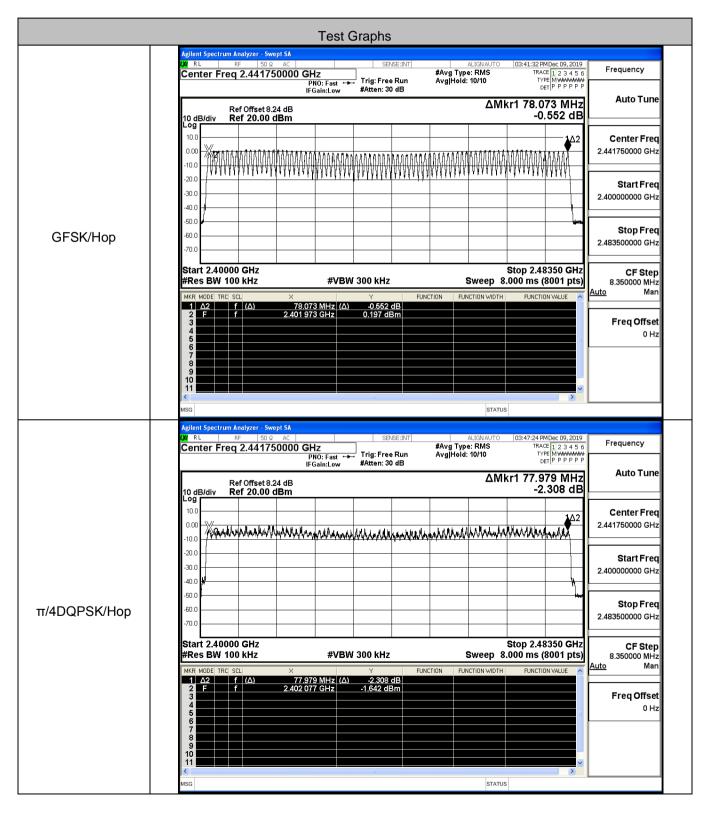


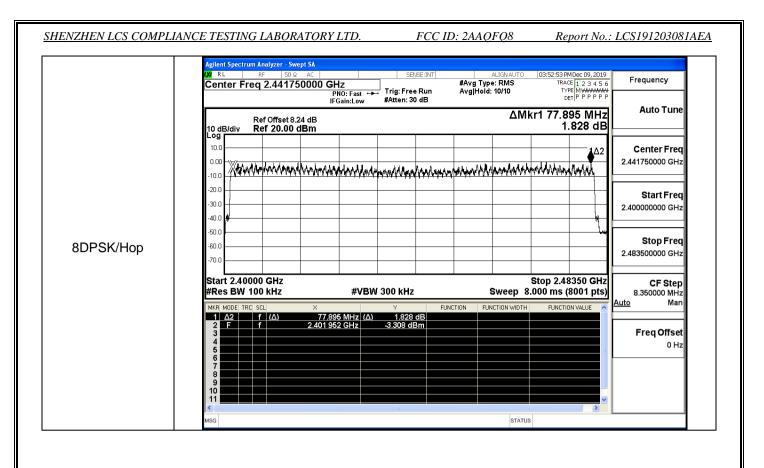




### A.4 Hopping Channel Number

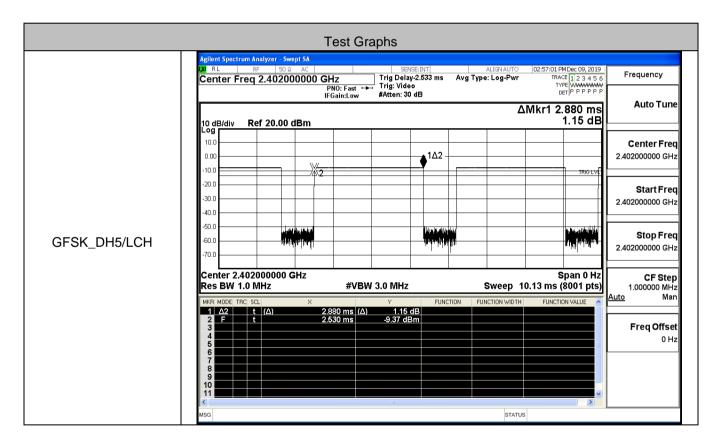
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS
8DPSK	Нор	79	>=15	PASS

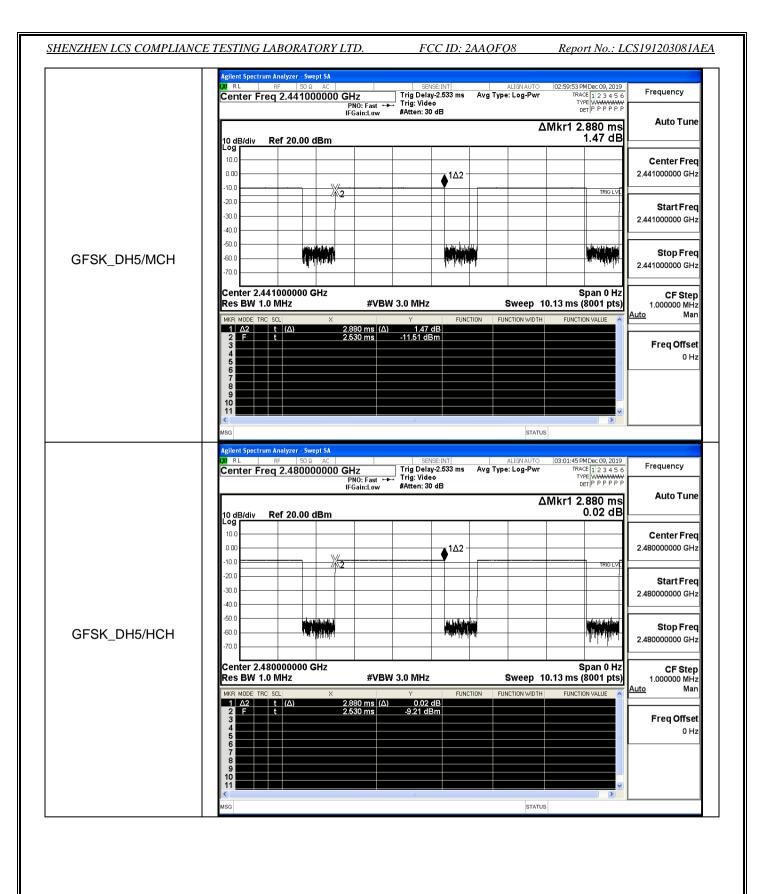


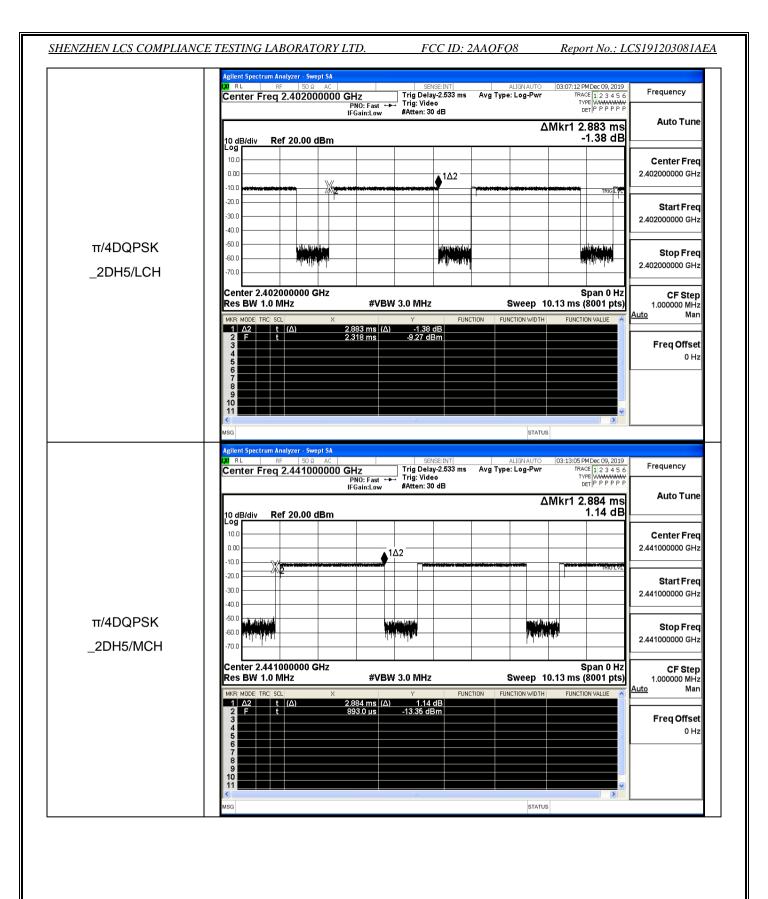


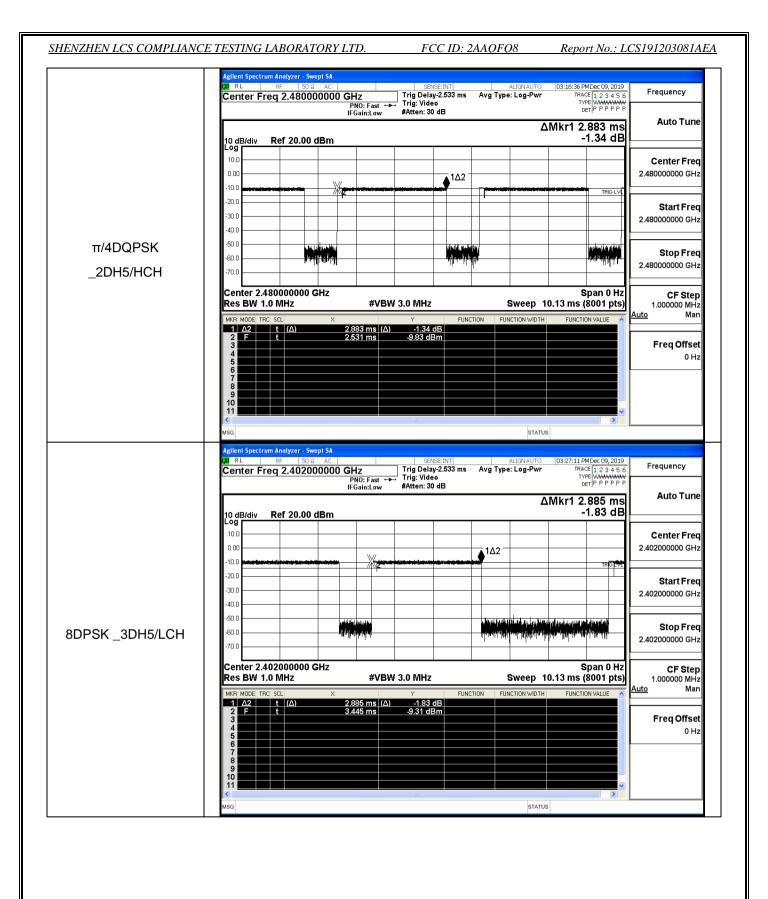
### A.5 Dwell Time

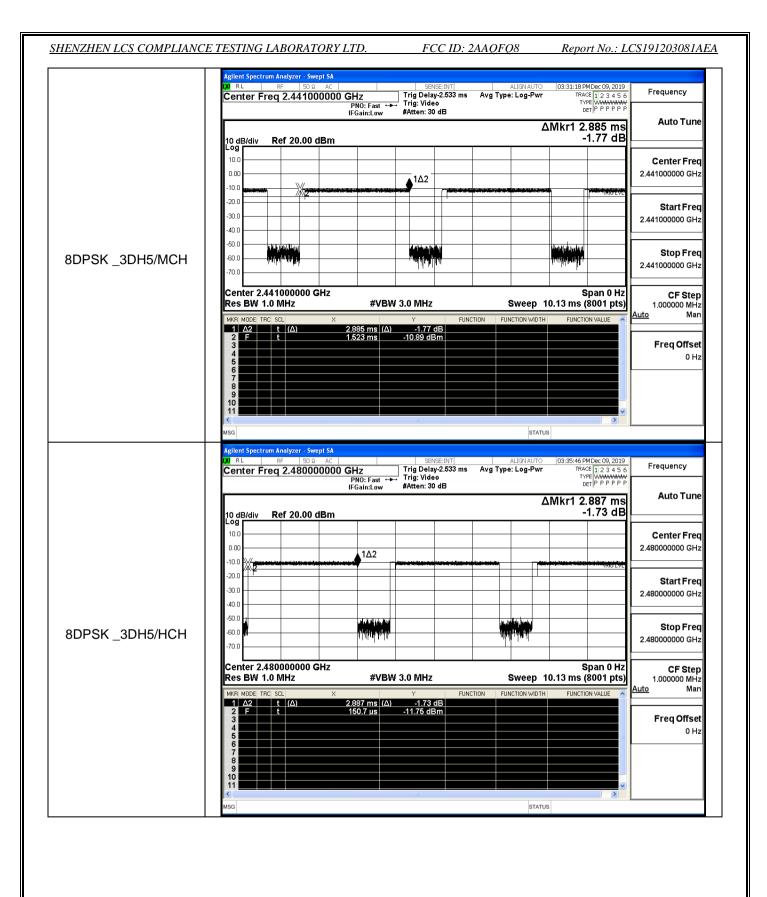
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
	DH5	LCH	2.88	106.7	0.307	0.4	PASS
GFSK	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	HCH	2.88	106.7	0.307	0.4	PASS
	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
π/4DQPSK	2DH5	MCH	2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	2.88	106.7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





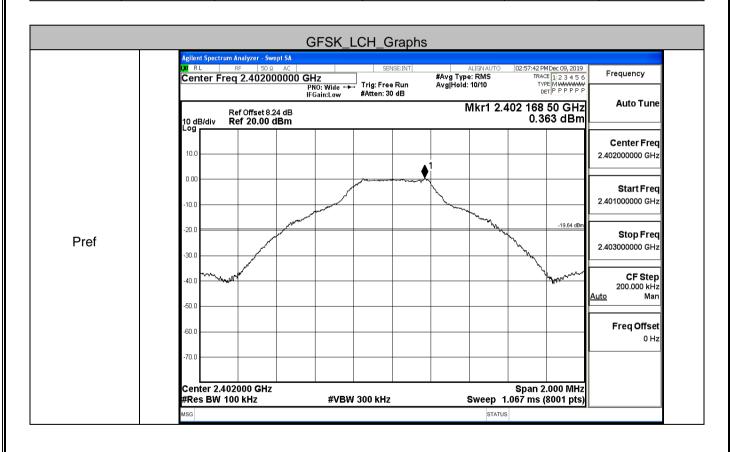






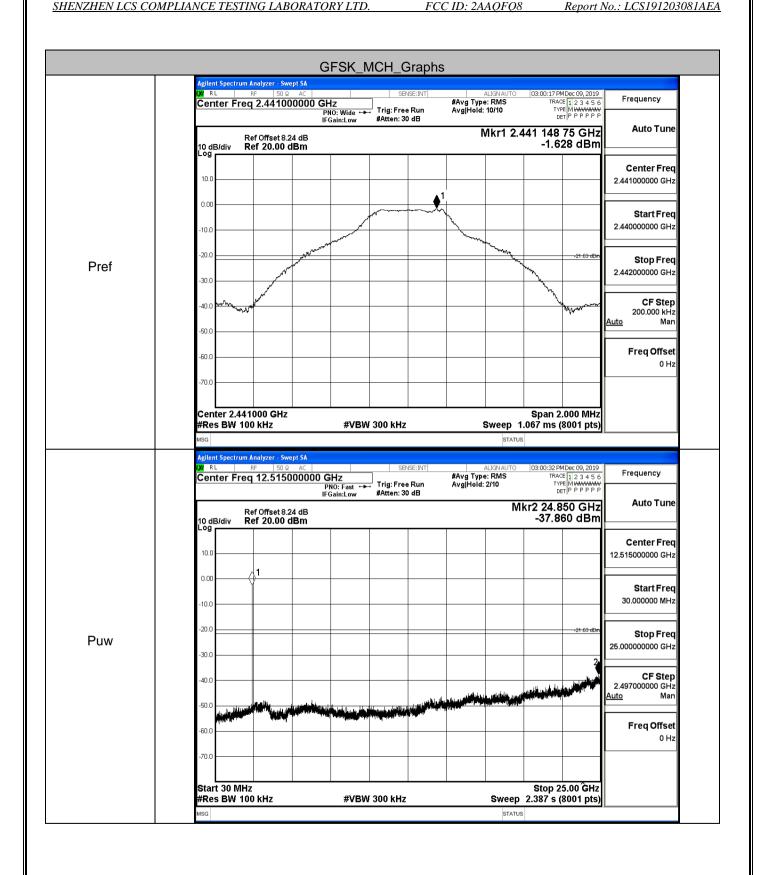
## A.6 RF Conducted Spurious Emissions

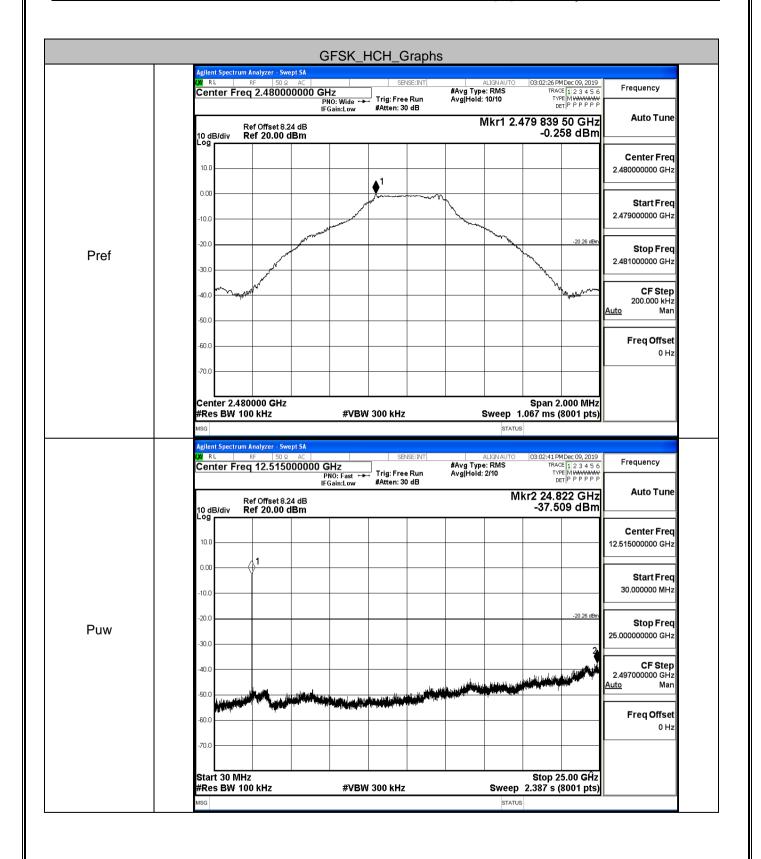
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	0.363	-37.077	-19.637	PASS
GFSK	MCH	-1.628	-37.860	-21.628	PASS
	НСН	-0.258	-37.509	-20.258	PASS
	LCH	-1.063	-37.550	-21.063	PASS
π/4DQPSK	MCH	-3.711	-37.500	-23.711	PASS
	НСН	-1.448	-37.187	-21.448	PASS
	LCH	-1.033	-37.547	-21.033	PASS
8DPSK	MCH	-2.547	-36.624	-22.547	PASS
	НСН	-1.553	-37.900	-21.553	PASS

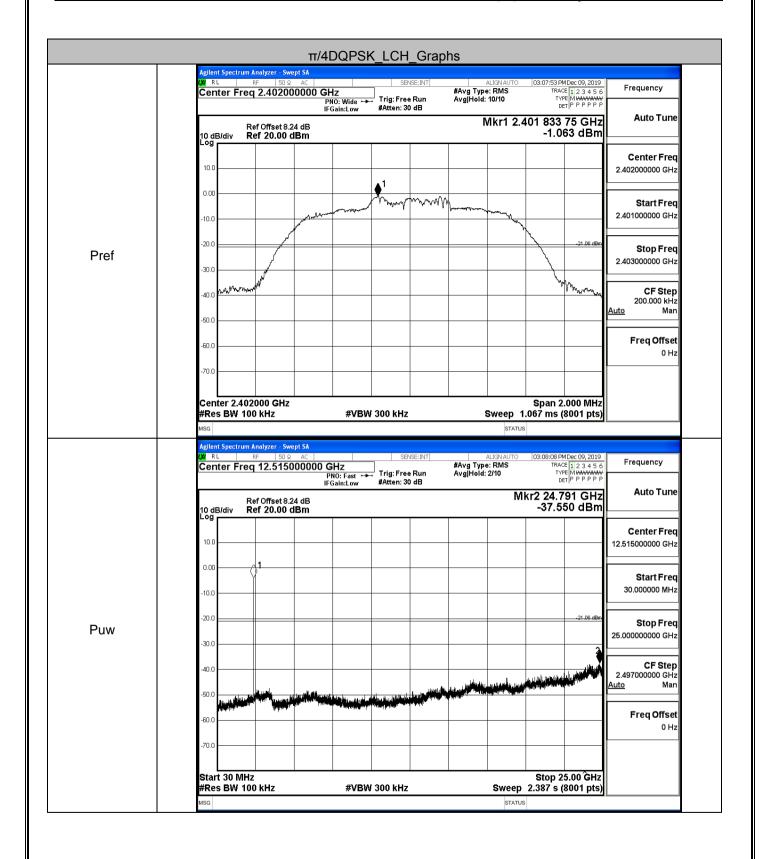


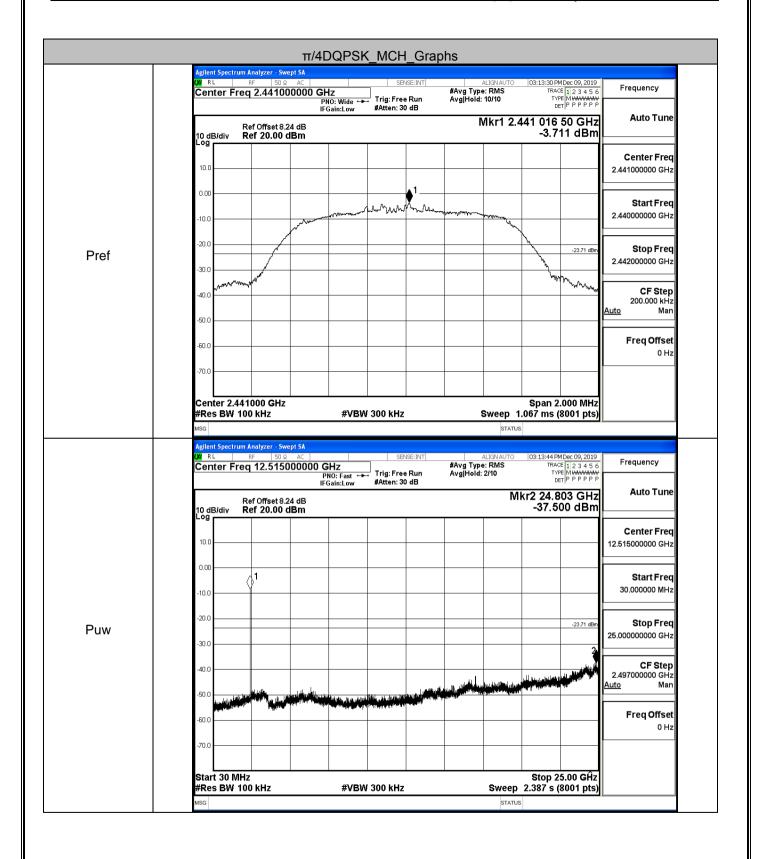
**#VBW** 300 kHz

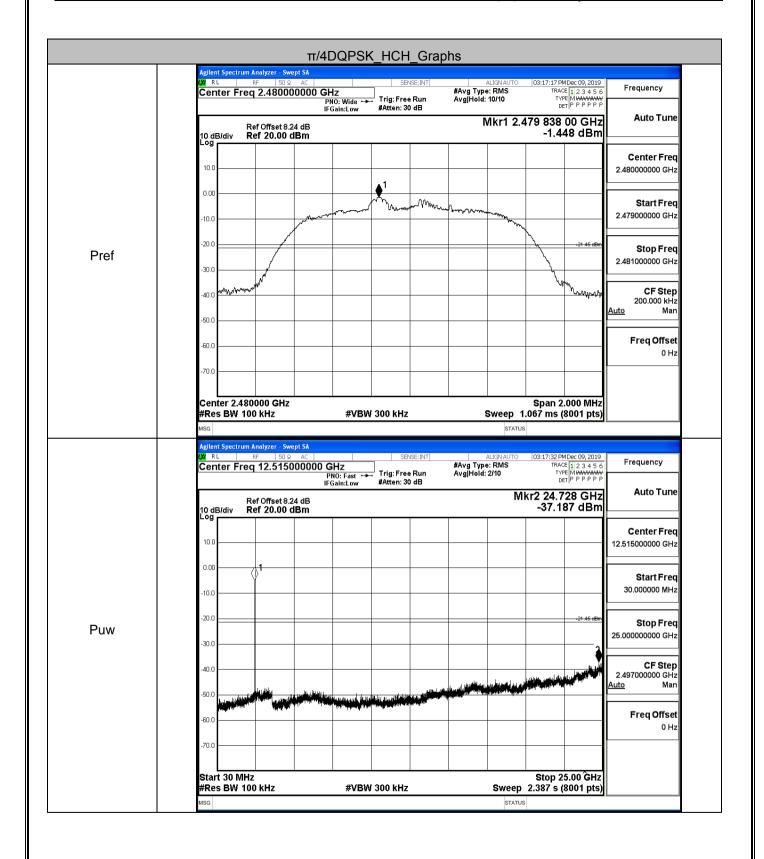
STATUS

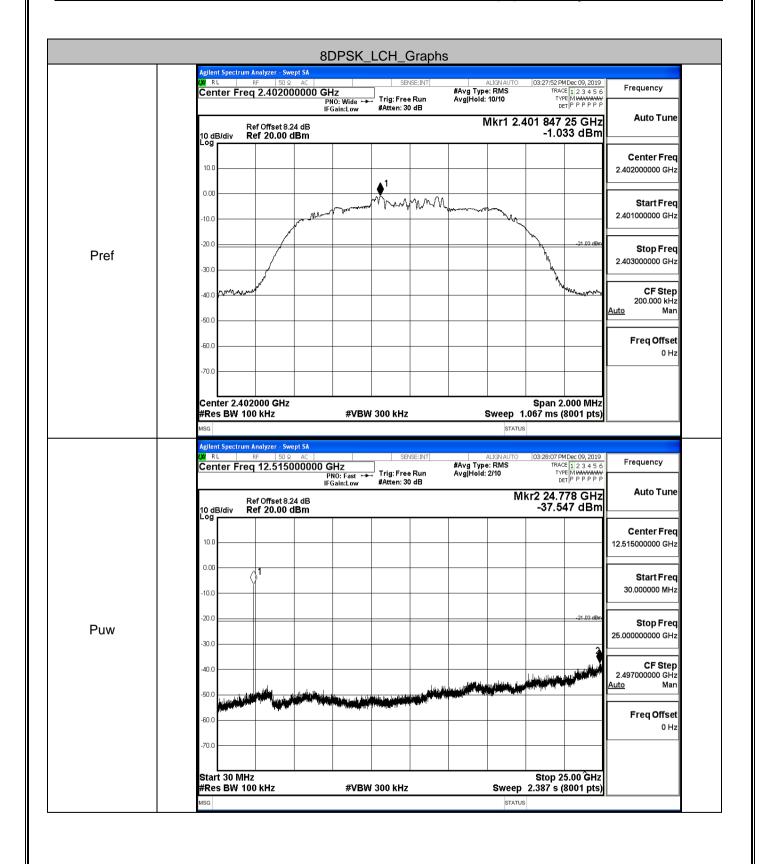


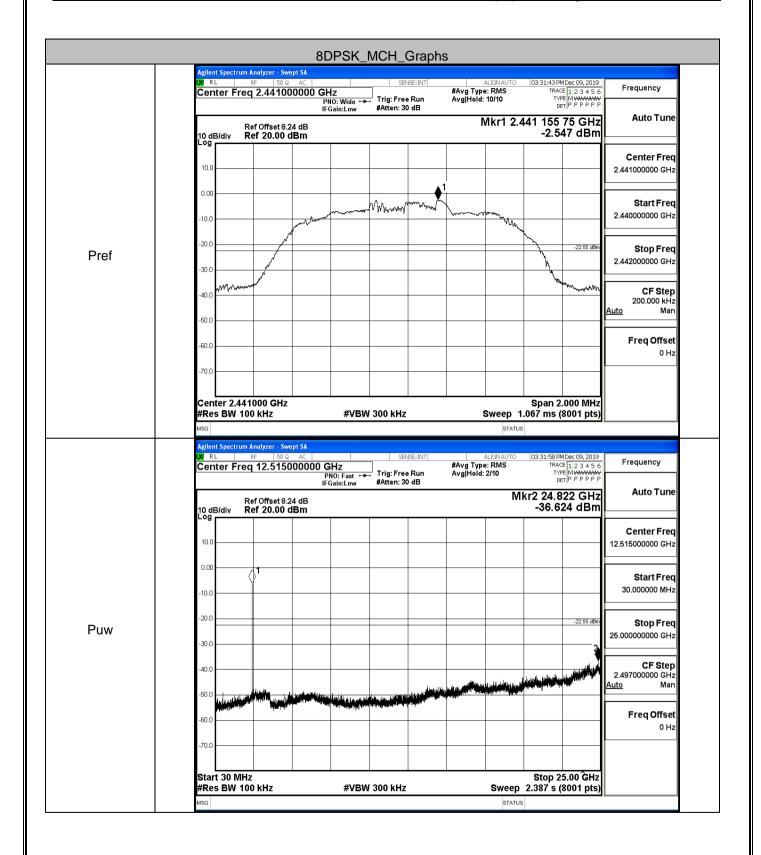


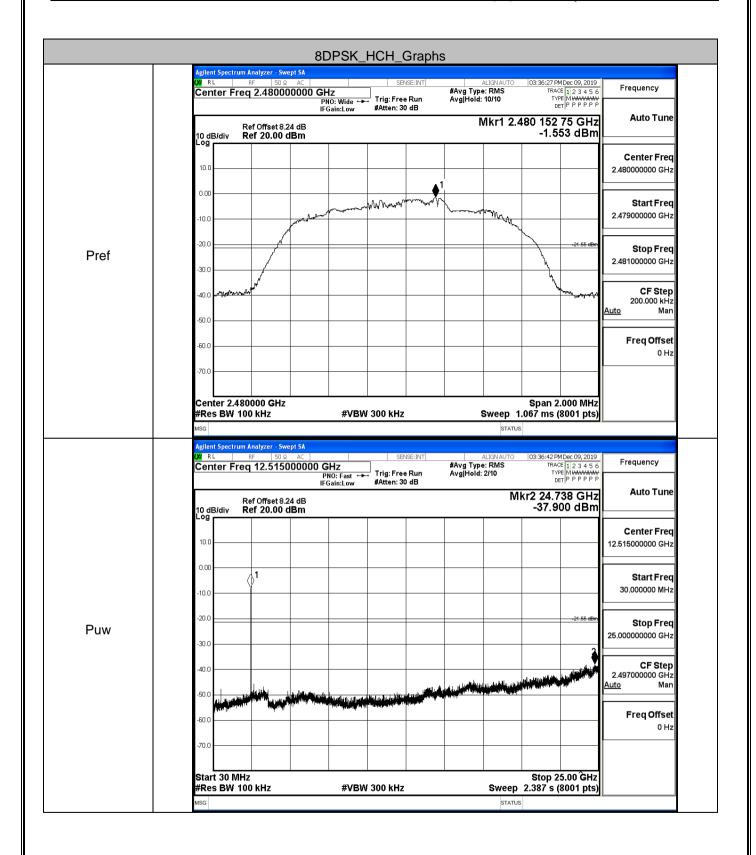






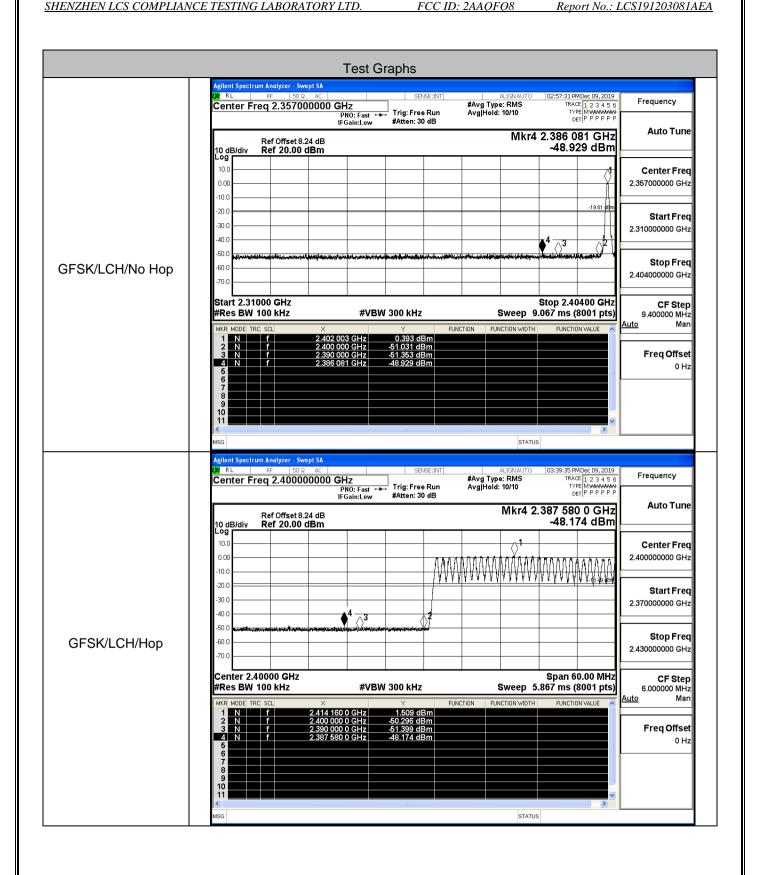


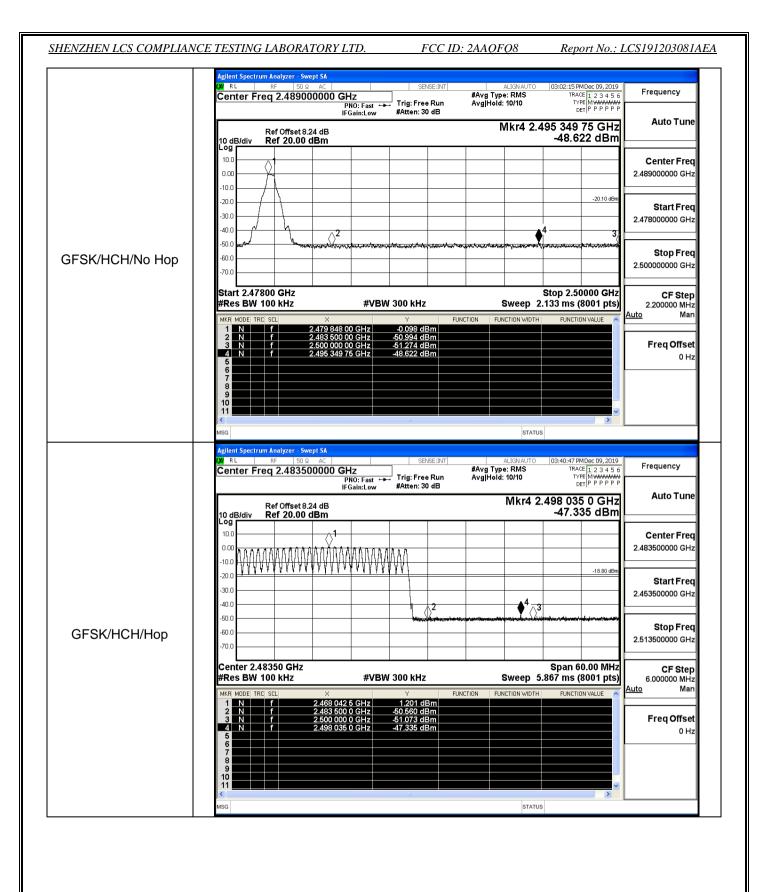


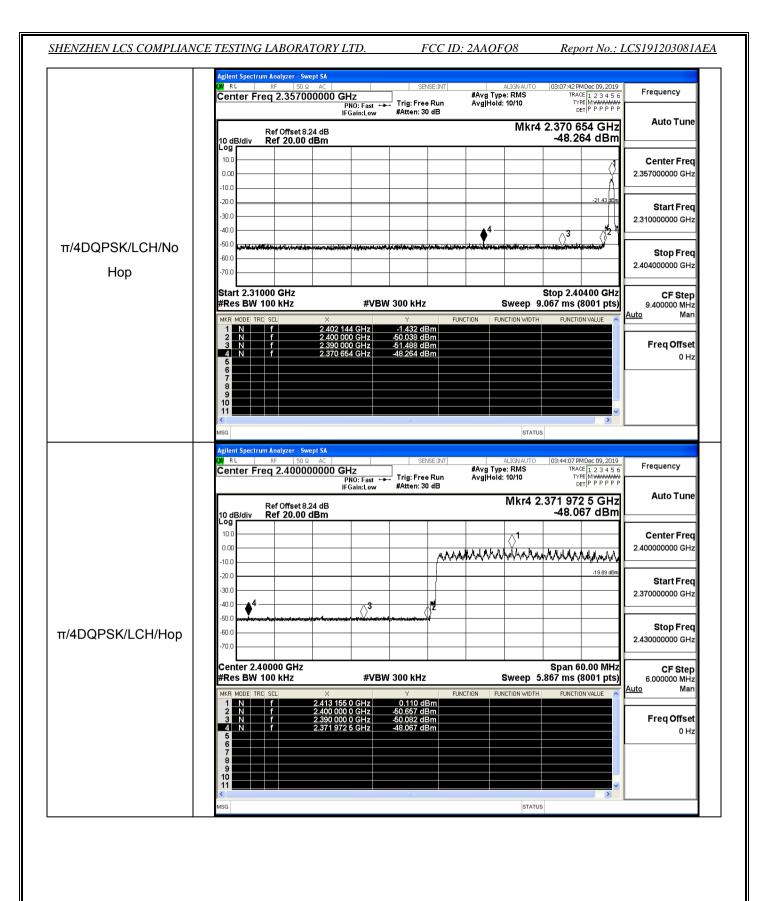


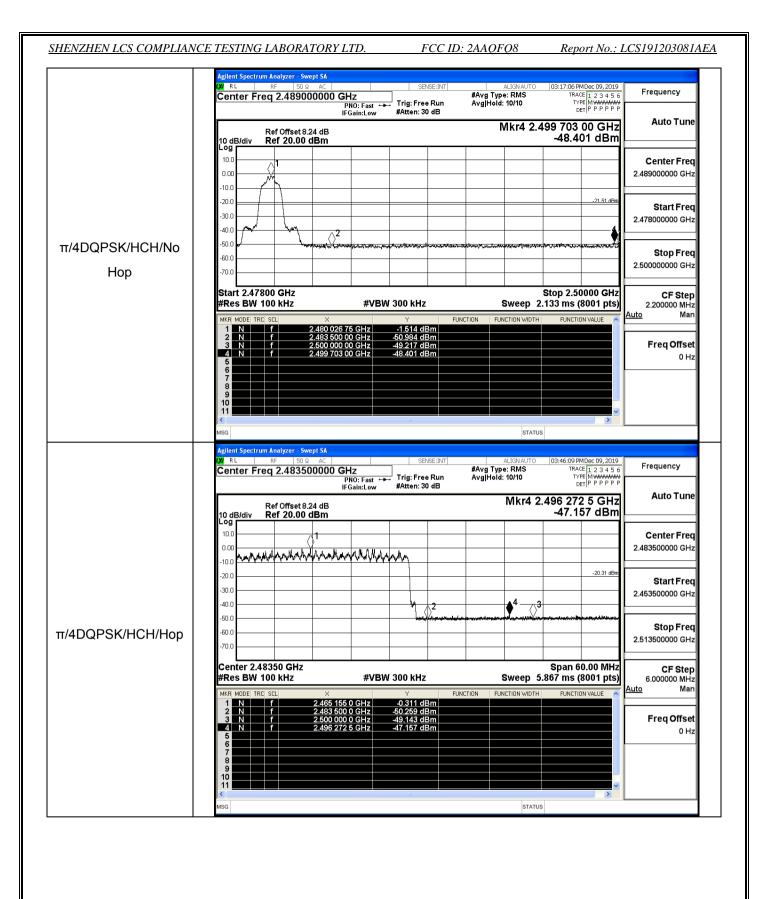
# A.7 Band-edge for RF Conducted Emissions

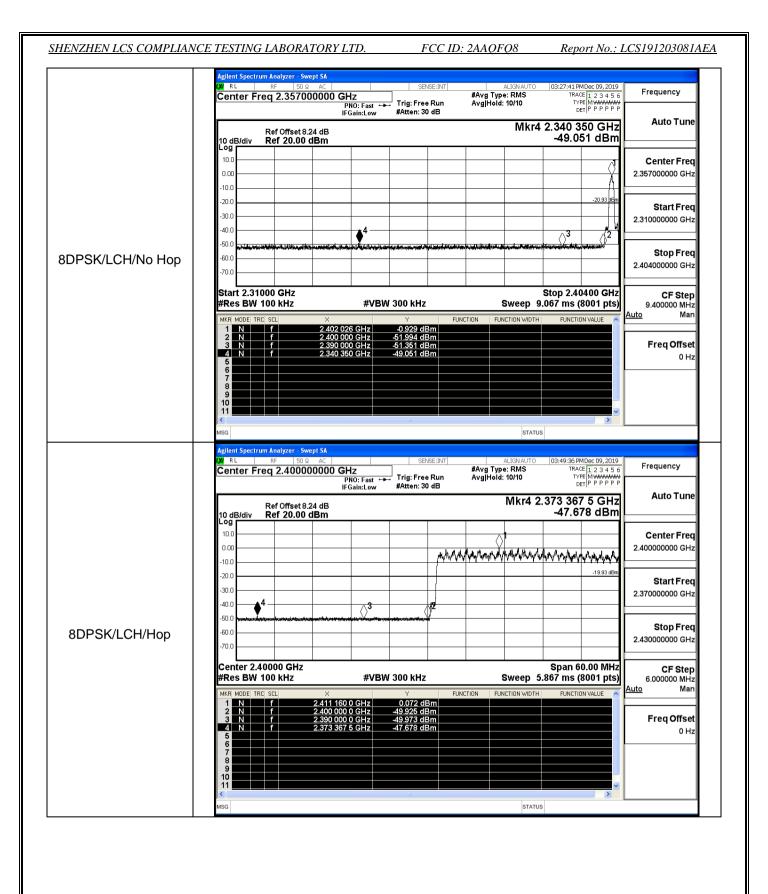
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict	
		0.400	0.393	Off	-48.929	-19.61	PASS	
0.501/	LCH	2402	1.509	On	-48.174	-18.49	PASS	
GFSK	нсн	2480	-0.098	Off	-48.622	-20.1	PASS	
			1.201	On	-47.335	-18.8	PASS	
	LCH			-1.432	Off	-48.264	-21.43	PASS
		2402	0.110	On	-48.067	-19.89	PASS	
π/4DQPSK	нсн		-1.514	Off	-48.401	-21.51	PASS	
		2480	-0.311	On	-47.157	-20.31	PASS	
			-0.929	Off	-49.051	-20.93	PASS	
	LCH	2402	0.072	On	-47.678	-19.93	PASS	
8DPSK			-1.476	Off	-48.379	-21.48	PASS	
	HCH	2480	-0.451	On	-47.928	-20.45	PASS	

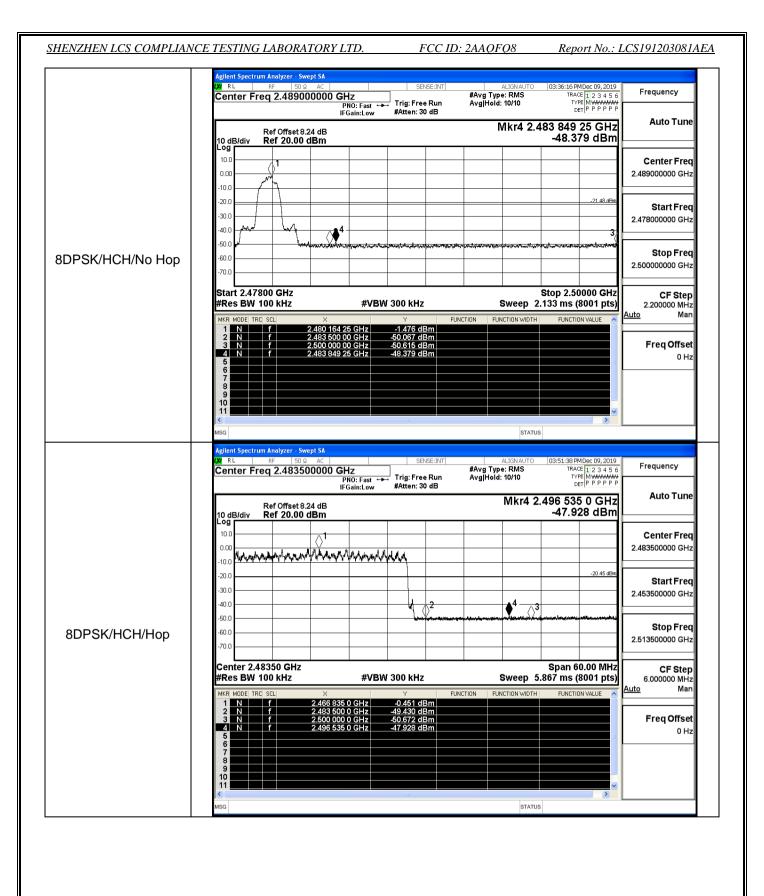






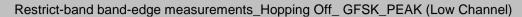


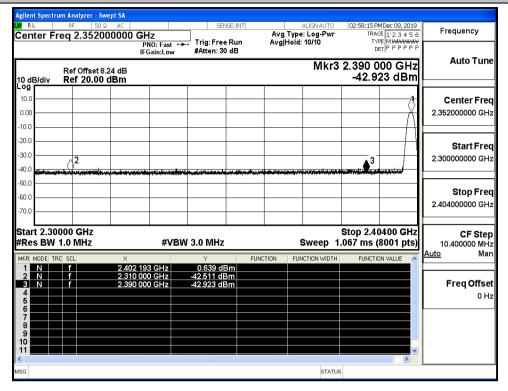




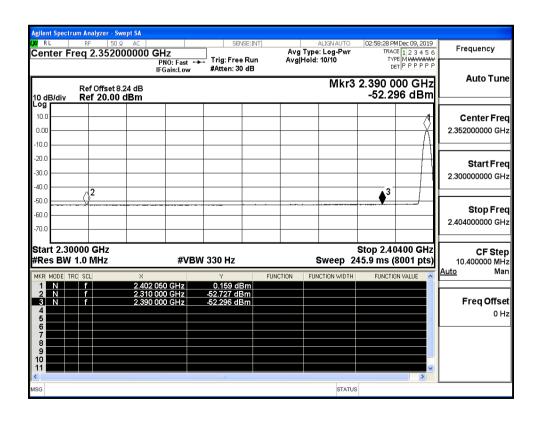
# A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-42.51	2.0	0	52.75	PEAK	74	PASS
	Off	2310.0	-52.73	2.0	0	42.53	AV	54	PASS
	Off	2390.0	-42.92	2.0	0	52.33	PEAK	74	PASS
	Off	2390.0	-52.30	2.0	0	42.96	AV	54	PASS
GFSK	Off	2483.5	-42.96	2.0	0	52.30	PEAK	74	PASS
	Off	2483.5	-51.89	2.0	0	43.37	AV	54	PASS
	Off	2500.0	-42.06	2.0	0	53.20	PEAK	74	PASS
	Off	2500.0	-51.76	2.0	0	43.50	AV	54	PASS
	Off	2310.0	-41.95	2.0	0	53.31	PEAK	74	PASS
	Off	2310.0	-52.71	2.0	0	42.55	AV	54	PASS
	Off	2390.0	-42.51	2.0	0	52.75	PEAK	74	PASS
/4D0D0K	Off	2390.0	-52.44	2.0	0	42.82	AV	54	PASS
π/4DQPSK	Off	2483.5	-41.31	2.0	0	53.95	PEAK	74	PASS
	Off	2483.5	-51.66	2.0	0	43.59	AV	54	PASS
	Off	2500.0	-42.26	2.0	0	53.00	PEAK	74	PASS
	Off	2500.0	-51.56	2.0	0	43.70	AV	54	PASS
	Off	2310.0	-42.24	2.0	0	53.02	PEAK	74	PASS
	Off	2310.0	-52.63	2.0	0	42.62	AV	54	PASS
	Off	2390.0	-42.41	2.0	0	52.85	PEAK	74	PASS
00001	Off	2390.0	-52.21	2.0	0	43.05	AV	54	PASS
8DPSK	Off	2483.5	-41.85	2.0	0	53.41	PEAK	74	PASS
	Off	2483.5	-51.77	2.0	0	43.49	AV	54	PASS
	Off	2500.0	-42.12	2.0	0	53.14	PEAK	74	PASS
	Off	2500.0	-51.62	2.0	0	43.64	AV	54	PASS

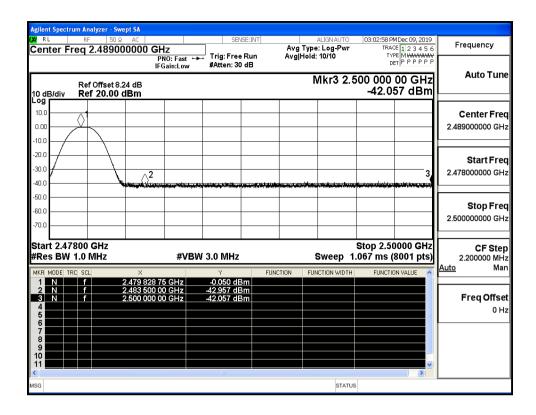




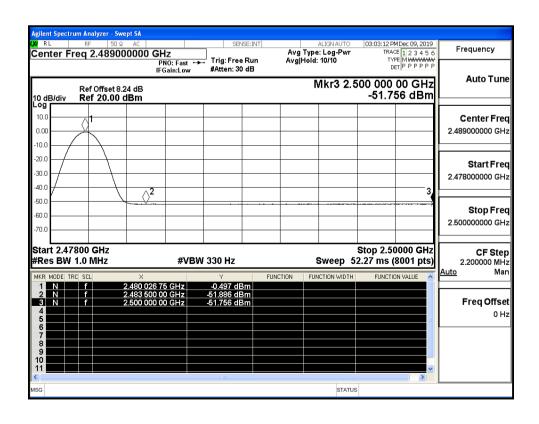
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (Low Channel)



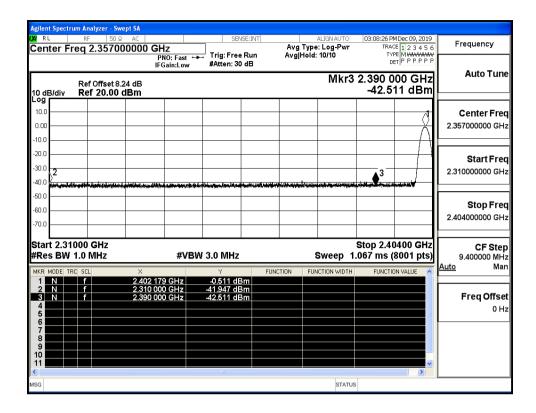
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_PEAK (High Channel)



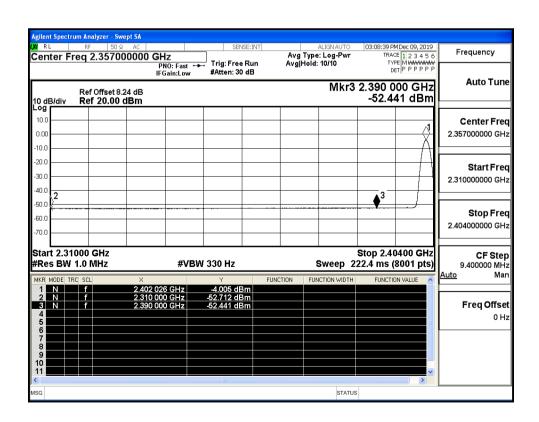
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (High Channel)



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

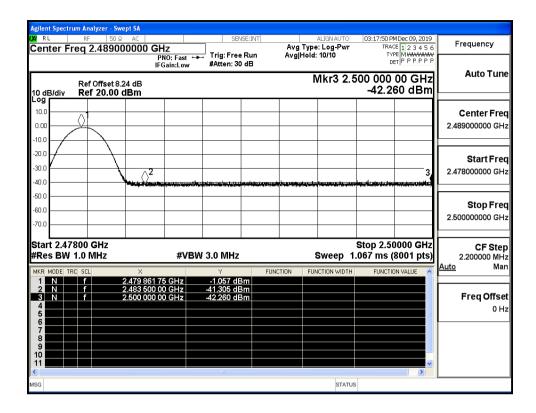


#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (Low Channel)

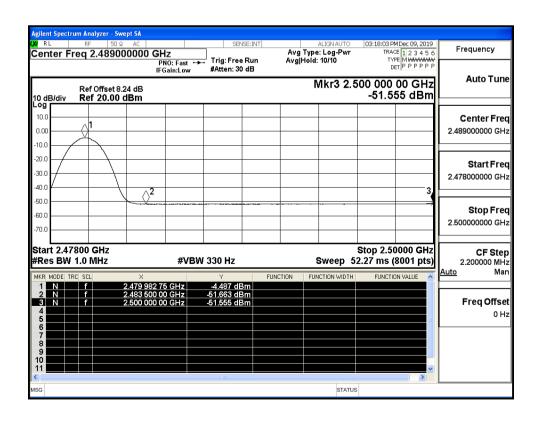


#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (High Channel)

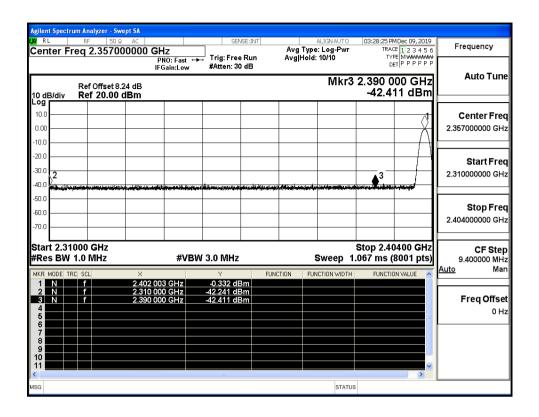
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.



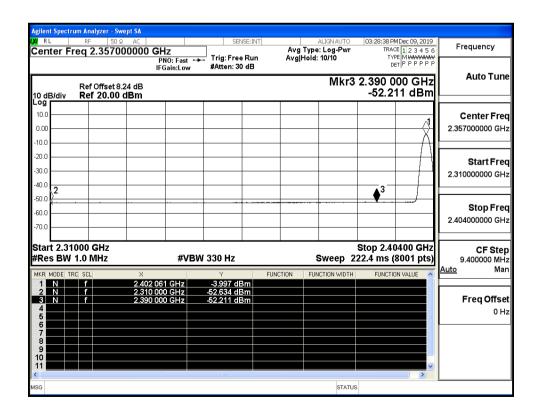
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (High Channel)



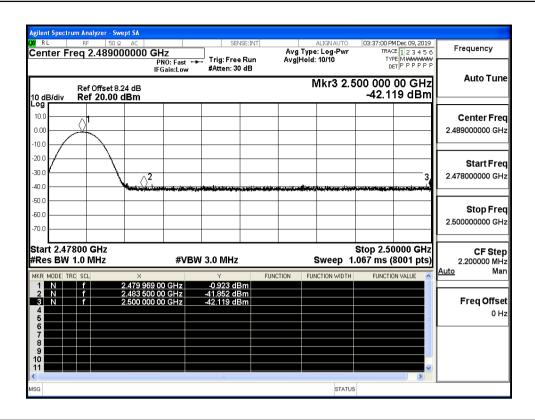
#### Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_PEAK (Low Channel)



#### 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)

