# Appendix A

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

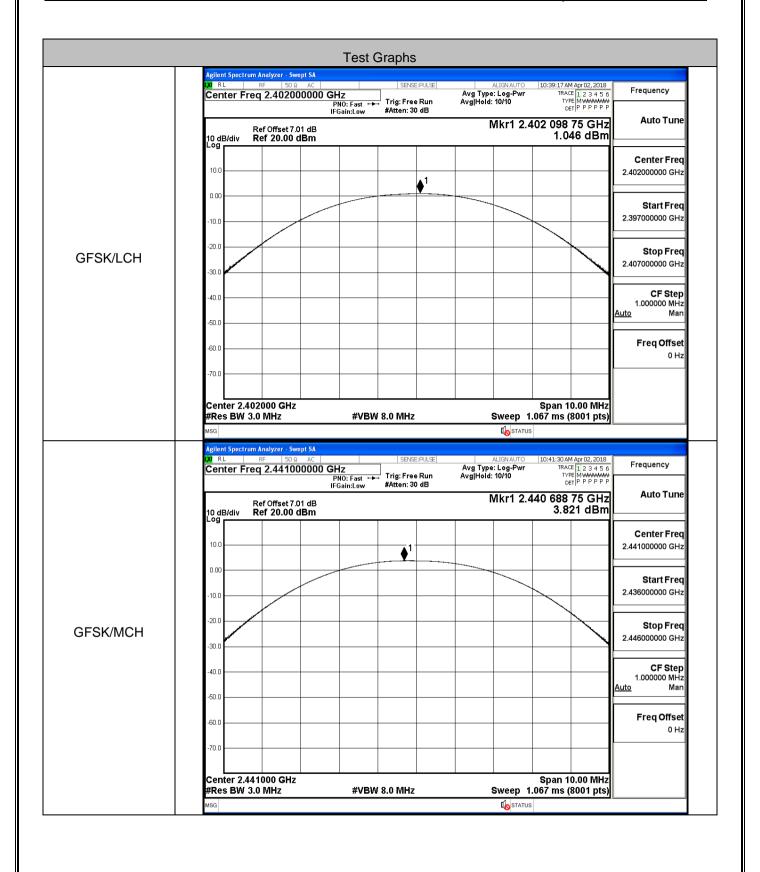
**Product Name: Bluetooth Sport Headset Trade Mark: AWEI** Test Model: A850BL

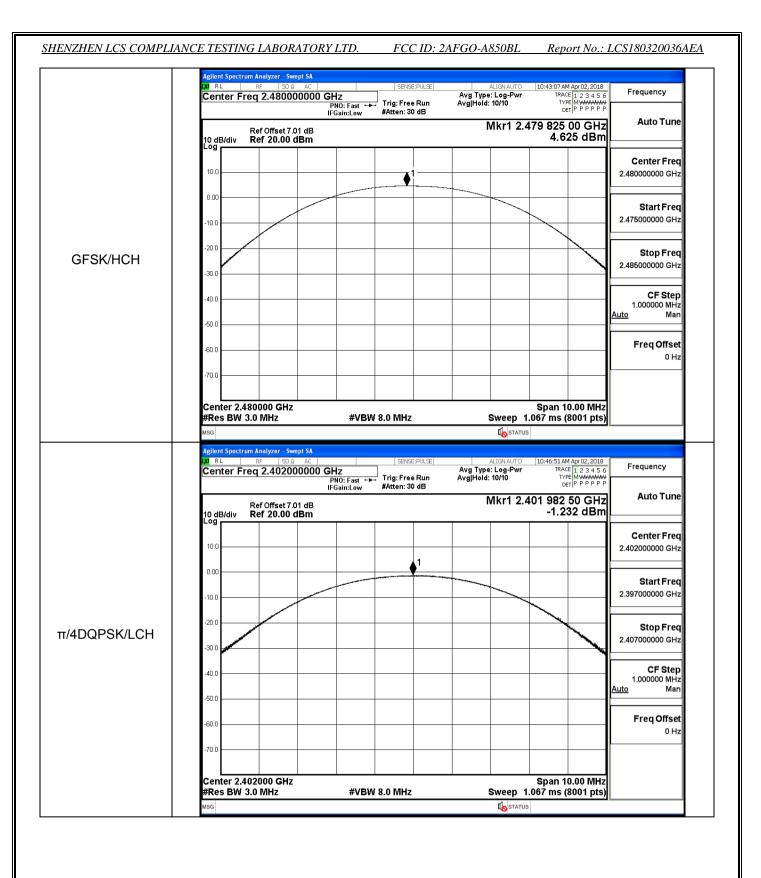
# **Environmental Conditions**

Temperature:	22.3 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Jayden.Zhuo
Supervised by:	Dick.Su

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

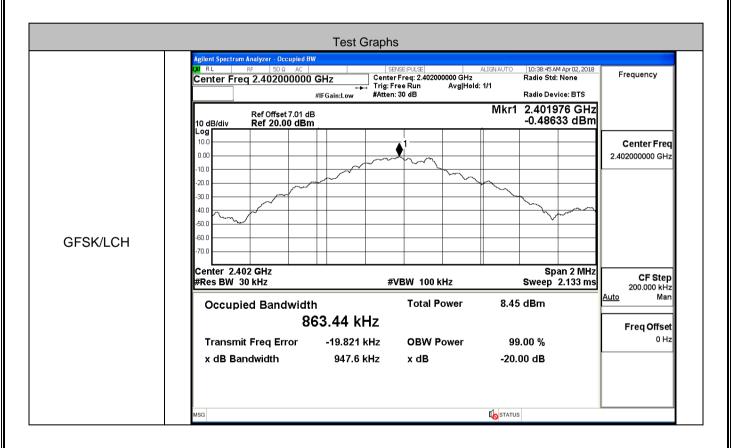
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	1.046	30	PASS
GFSK	MCH	3.821	30	PASS
	НСН	4.625	30	PASS
	LCH	-1.232	21	PASS
π/4DQPSK	МСН	2.371	21	PASS
	НСН	3.399	21	PASS
	LCH	-0.907	21	PASS
8DPSK	8DPSK MCH 2.710		21	PASS
	HCH	3.624	21	PASS





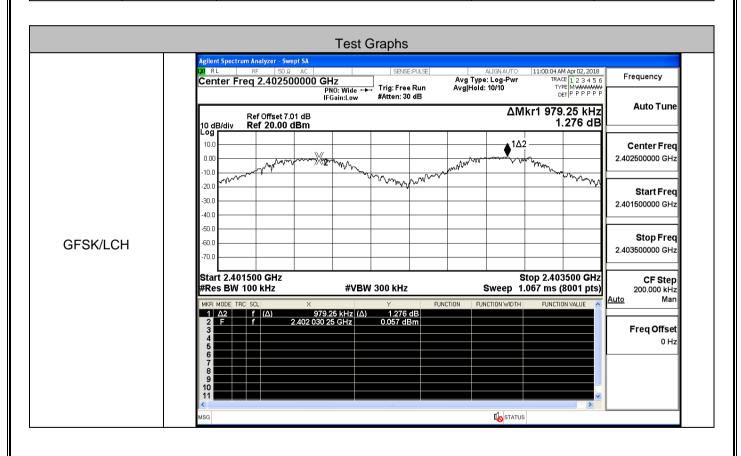
# A.2 20dB Bandwidth

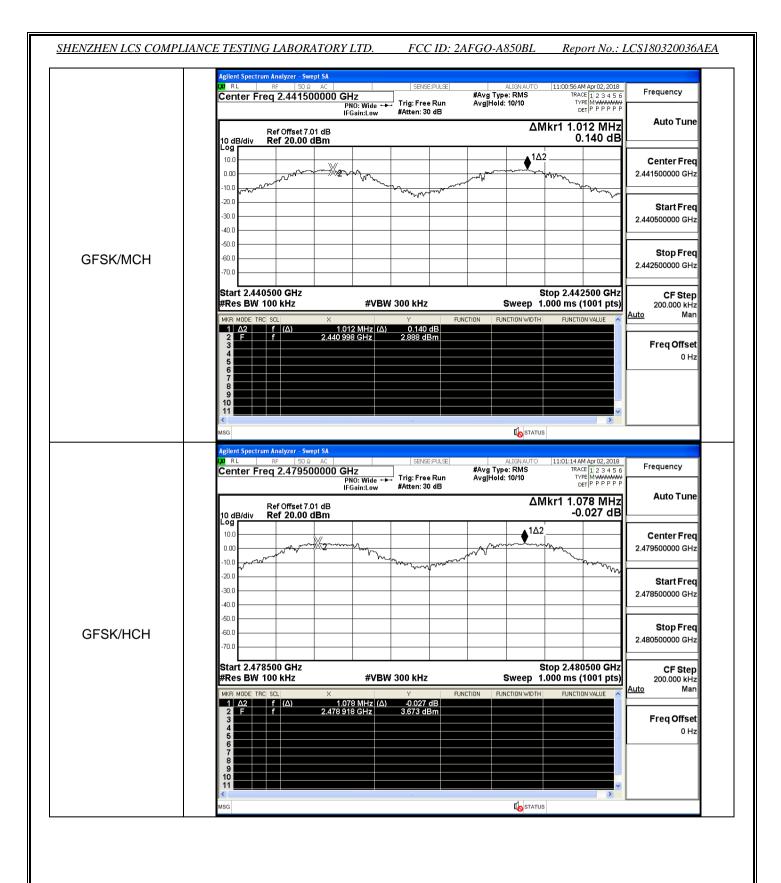
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	0.9476	Not Specified	PASS
GFSK	MCH	0.9434	Not Specified	PASS
	НСН	0.9435	Not Specified	PASS
	LCH	1.260	Not Specified	PASS
π/4DQPSK	MCH	1.229	Not Specified	PASS
	НСН	1.229	Not Specified	PASS
	LCH	1.273	Not Specified	PASS
8DPSK	MCH	1.260	Not Specified	PASS
	HCH	1.260	Not Specified	PASS

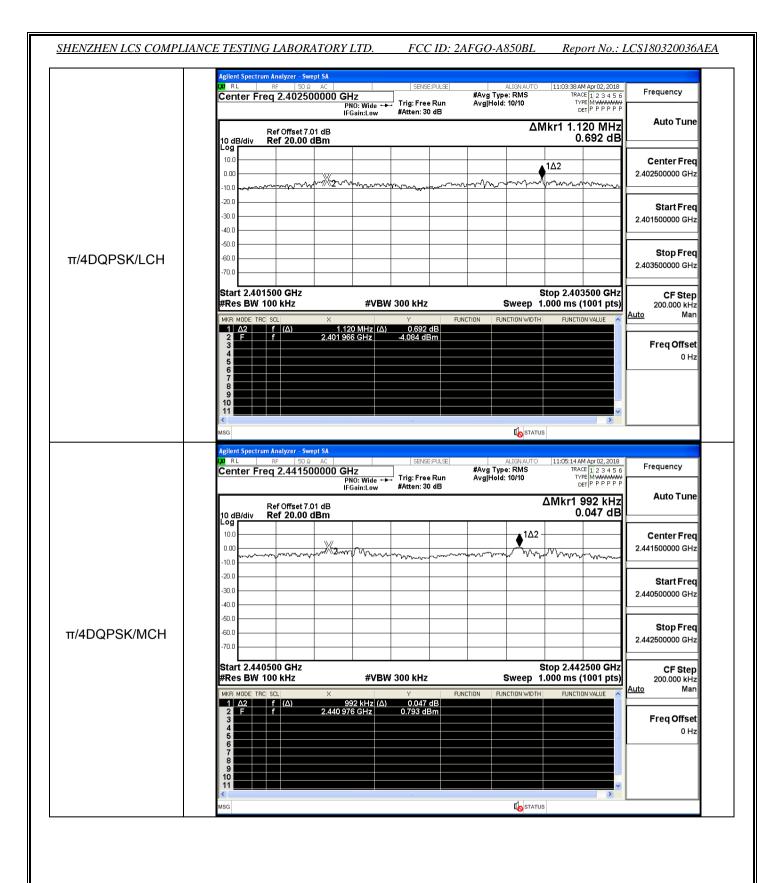


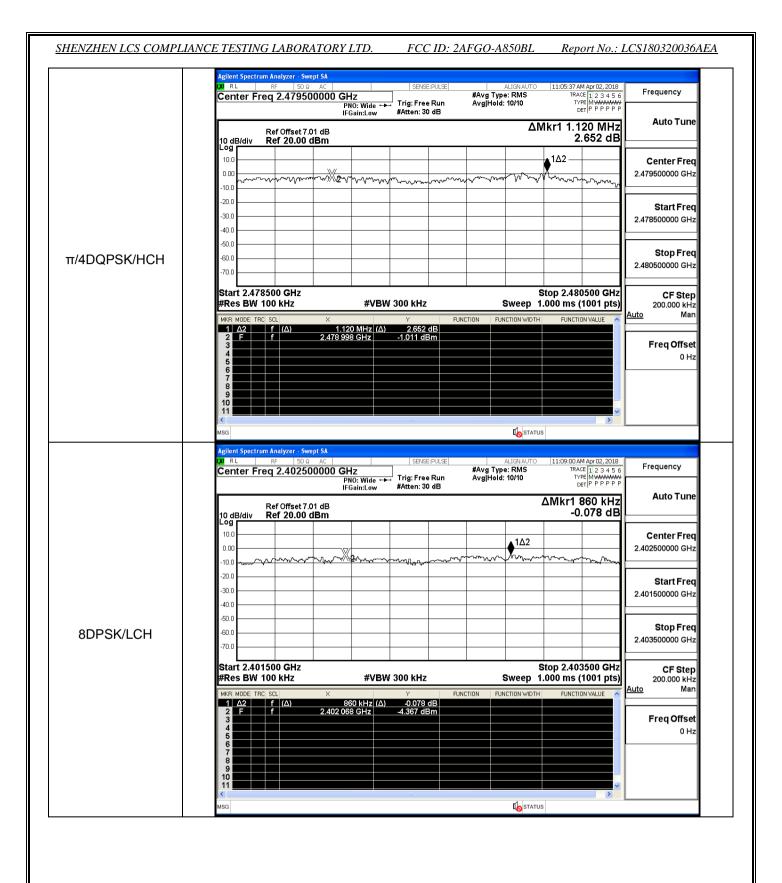
# **A.3 Carrier Frequency Separation**

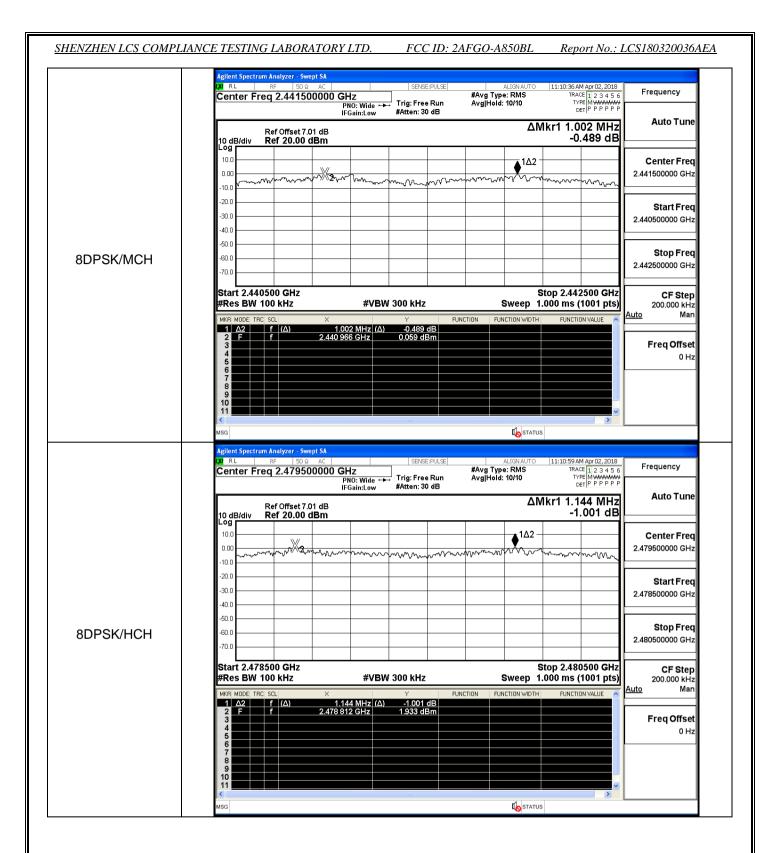
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	0.979	0.632	PASS
GFSK	MCH	1.012	0.629	PASS
	HCH	1.078	0.629	PASS
	LCH	1.120	0.84	PASS
π/4DQPSK	MCH	0.992	0.819	PASS
	HCH	1.120	0.819	PASS
8DPSK	LCH	0.860	0.848	PASS
	MCH	1.002	0.84	PASS
	HCH	1.144	0.84	PASS









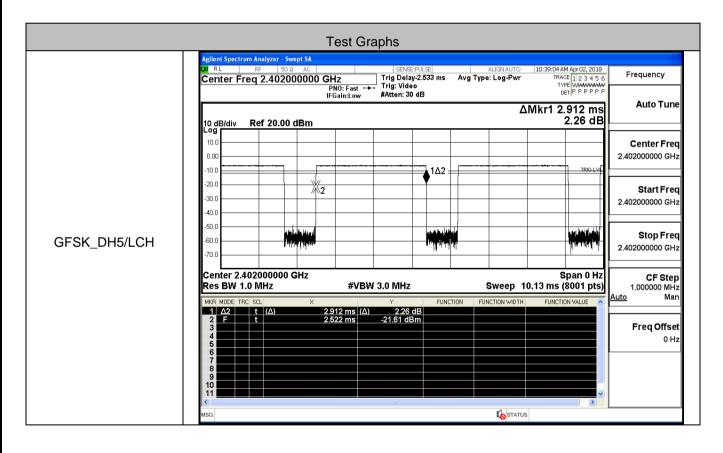


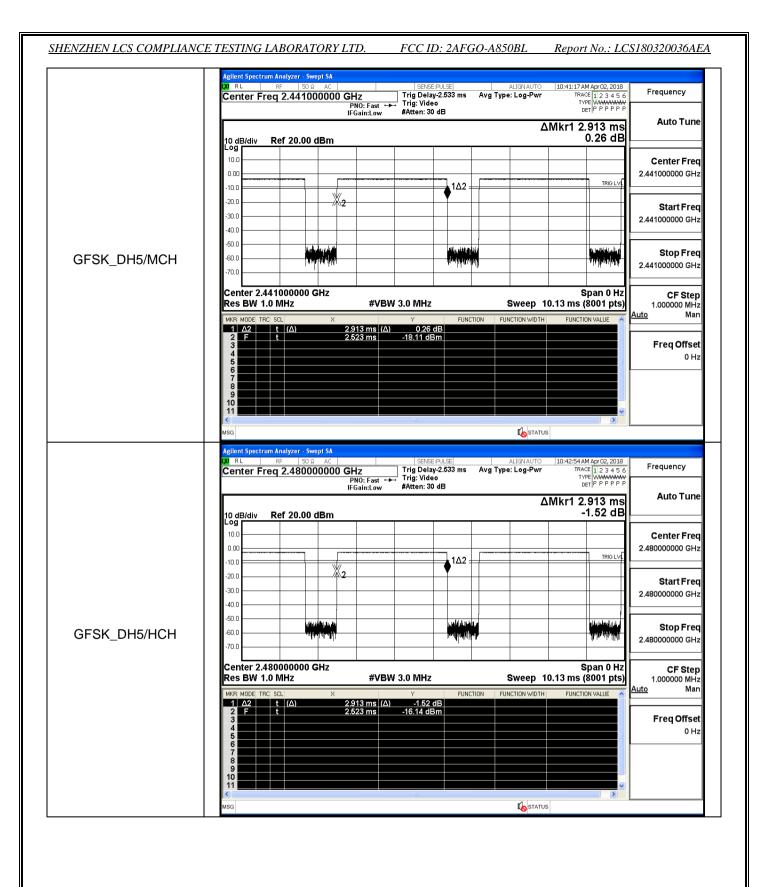
# A.4 Hopping Channel Number

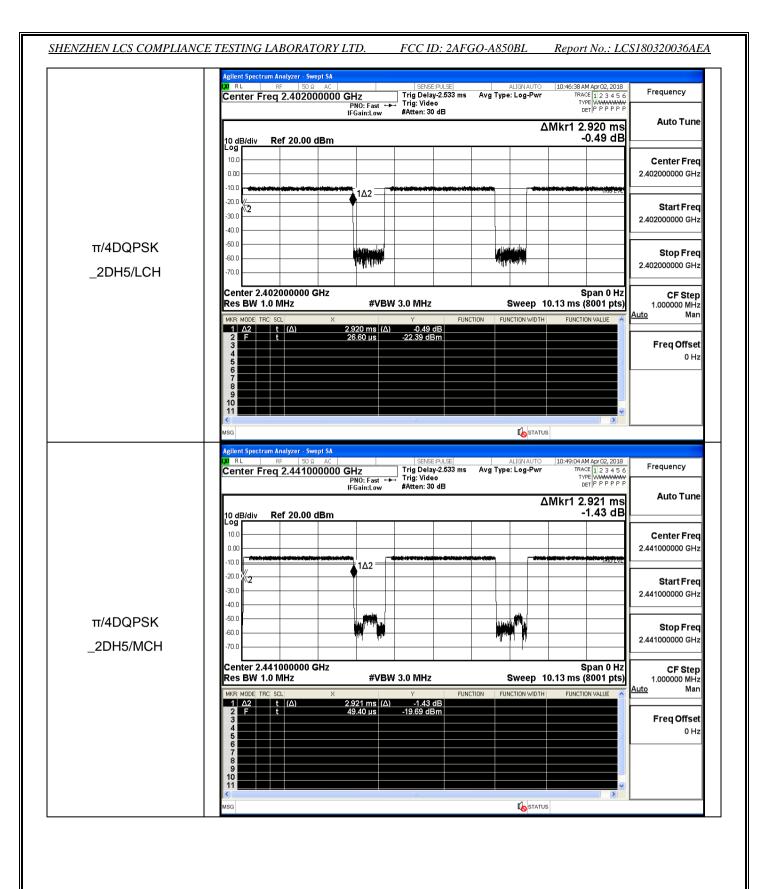
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS
8DPSK	Нор	79	>=15	PASS

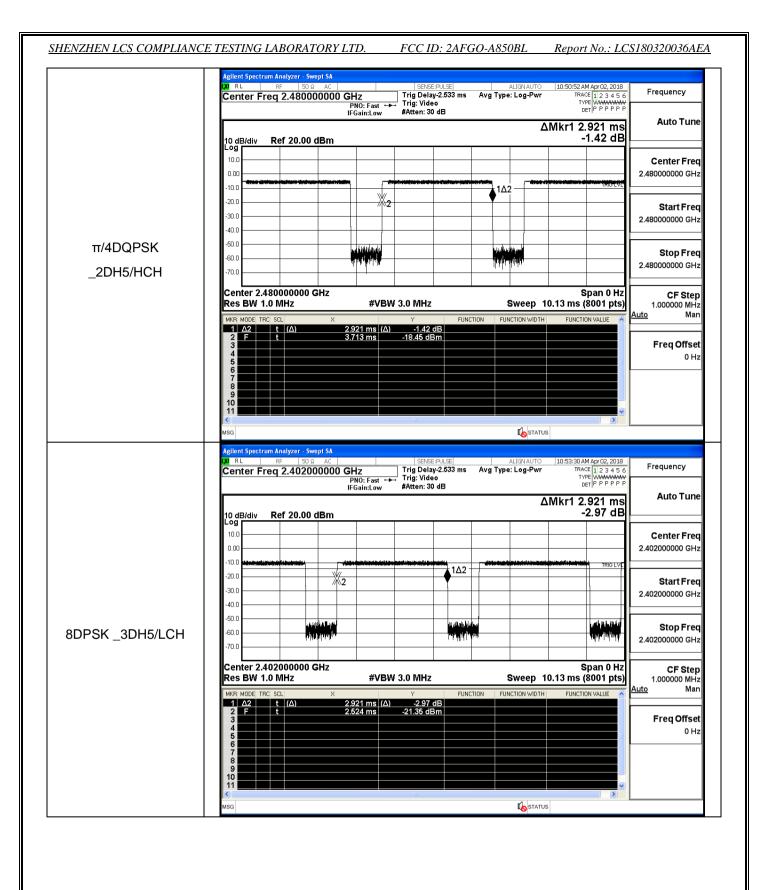
# A.5 Dwell Time

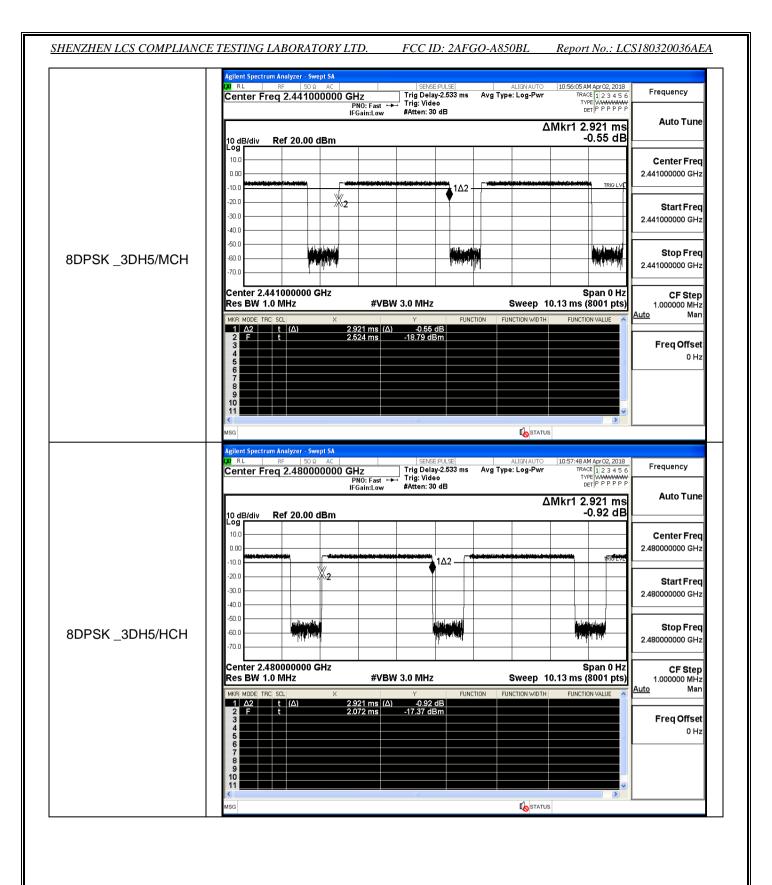
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
	DH5	LCH	2.91	106.7	0.31	0.4	PASS
GFSK	DH5	MCH	2.91	106.7	0.31	0.4	PASS
	DH5	HCH	2.91	106.7	0.31	0.4	PASS
	2DH5	LCH	2.91	106.7	0.312	0.4	PASS
π/4DQPSK	2DH5	MCH	2.91	106.7	0.312	0.4	PASS
	2DH5	HCH	2.91	106.7	0.312	0.4	PASS
8DPSK	3DH5	LCH	2.91	106.7	0.312	0.4	PASS
	3DH5	MCH	2.91	106.7	0.312	0.4	PASS
	3DH5	HCH	2.91	106.7	0.312	0.4	PASS





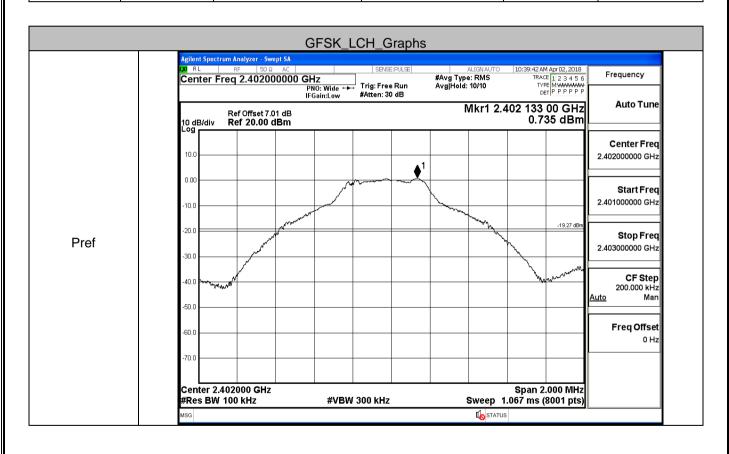


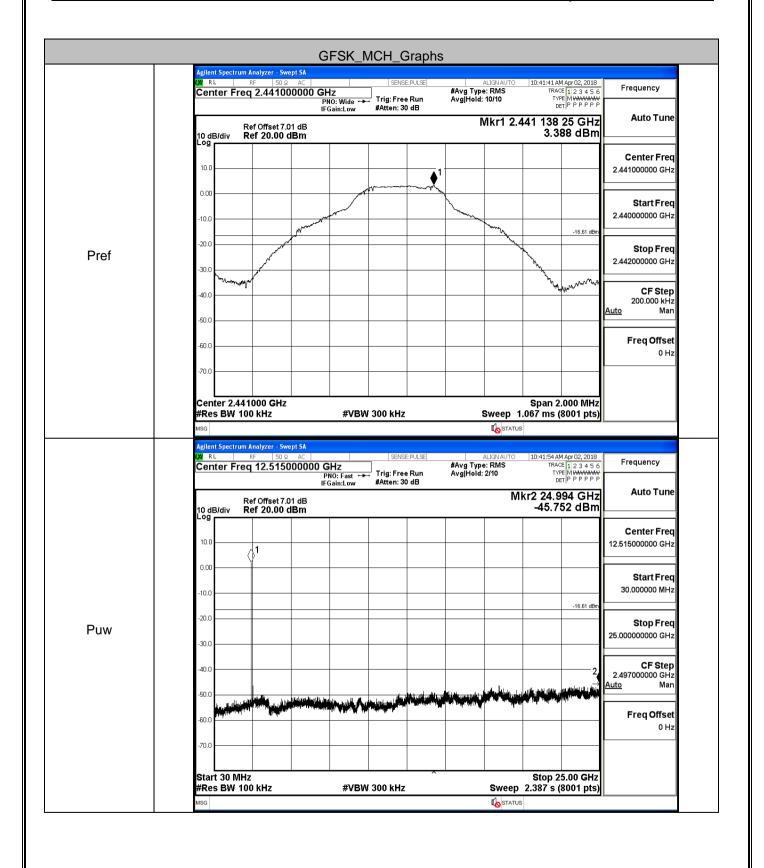


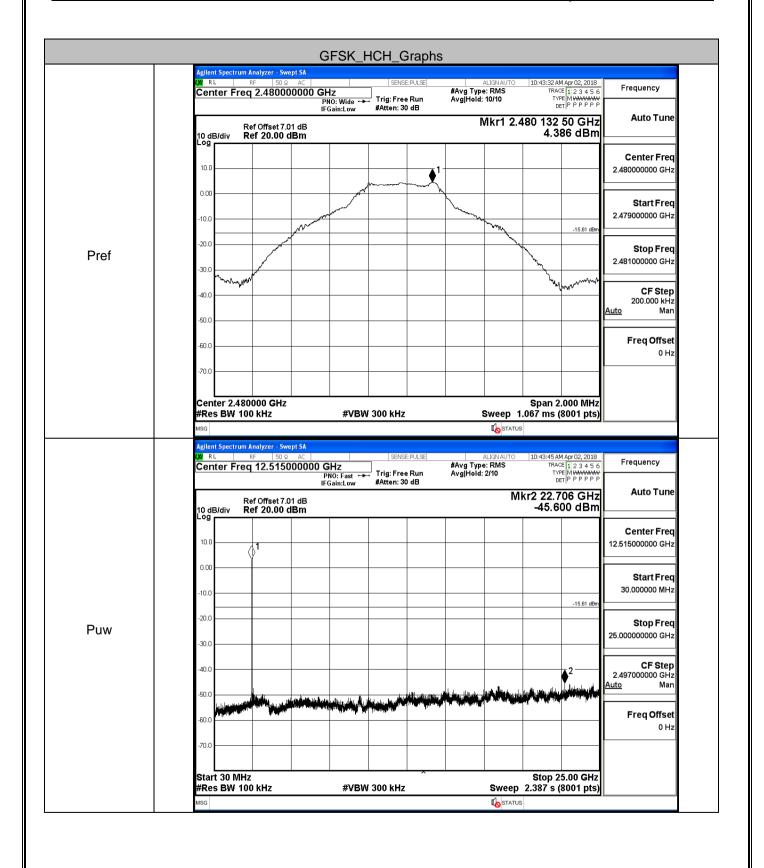


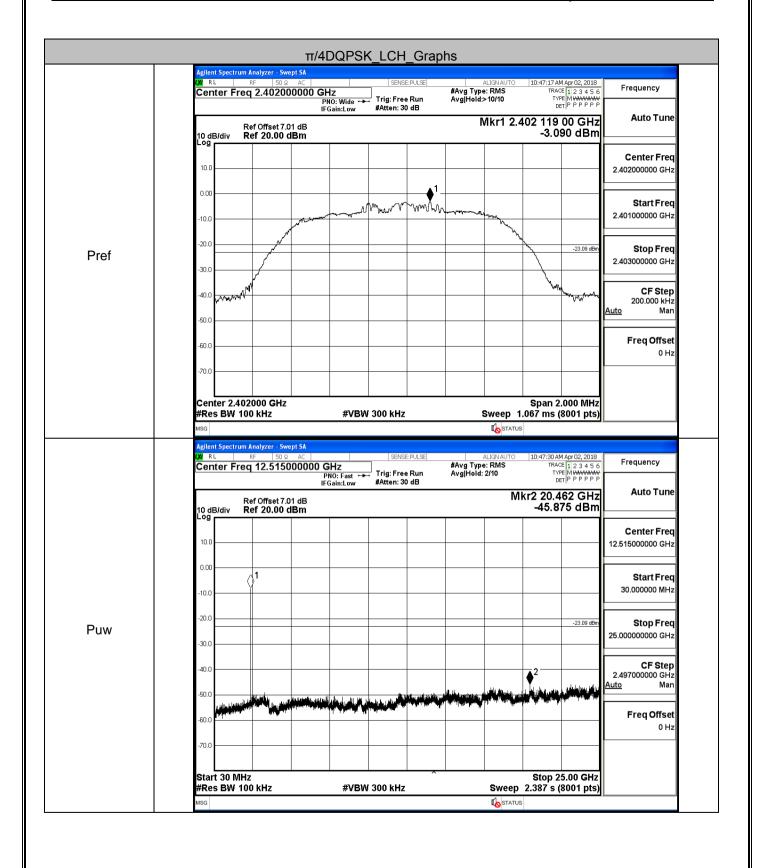
# A.6 RF Conducted Spurious Emissions

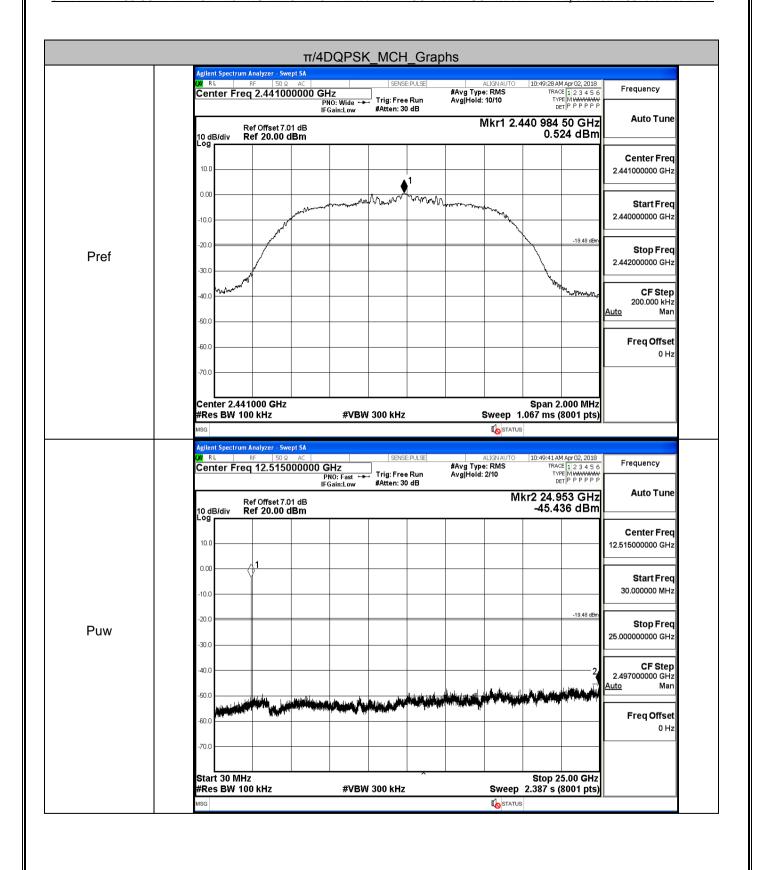
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	0.735	-45.149	-19.265	PASS
GFSK	MCH	3.388	-45.752	-16.612	PASS
	НСН	4.386	-45.600	-15.614	PASS
	LCH	-3.09	-45.875	-23.090	PASS
π/4DQPSK	MCH	0.524	-45.436	-19.476	PASS
	НСН	1.731	-45.207	-18.269	PASS
	LCH	-2.721	-45.552	-22.721	PASS
8DPSK	MCH	0.936	-45.276	-19.064	PASS
	HCH	2.106	-44.918	-17.894	PASS

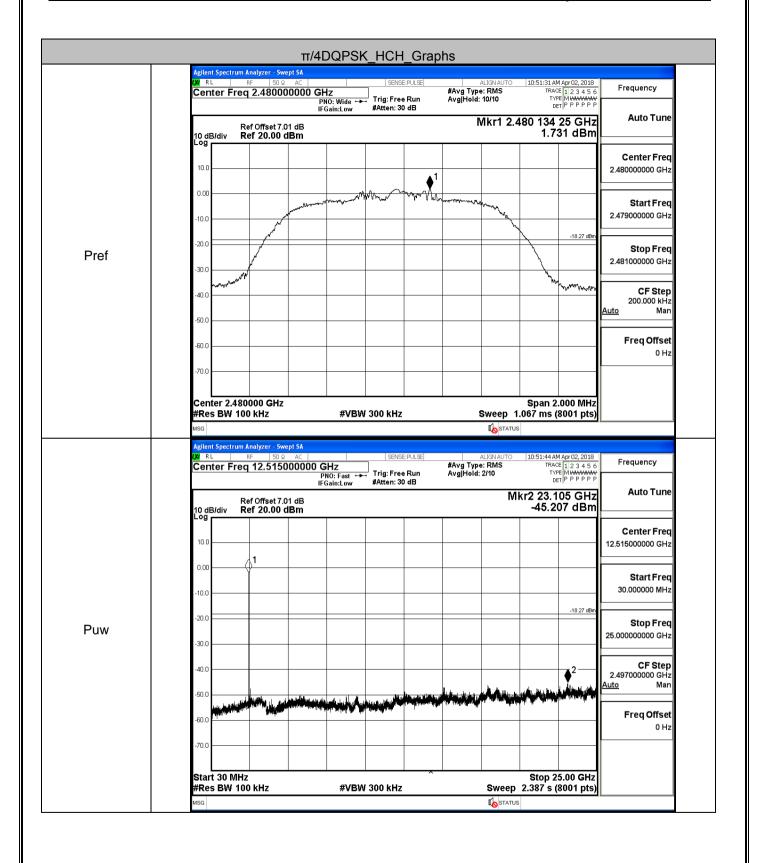


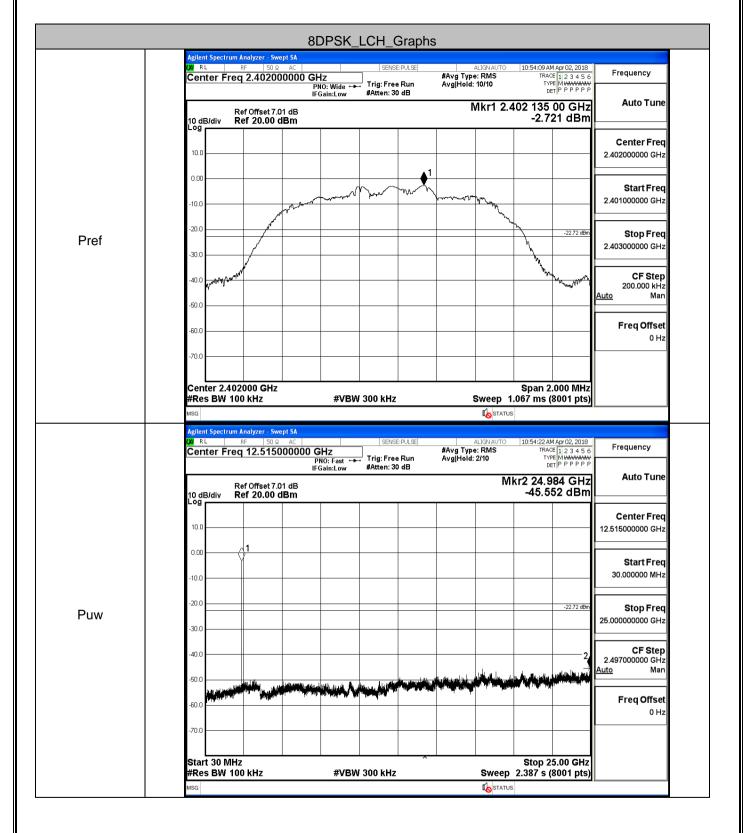


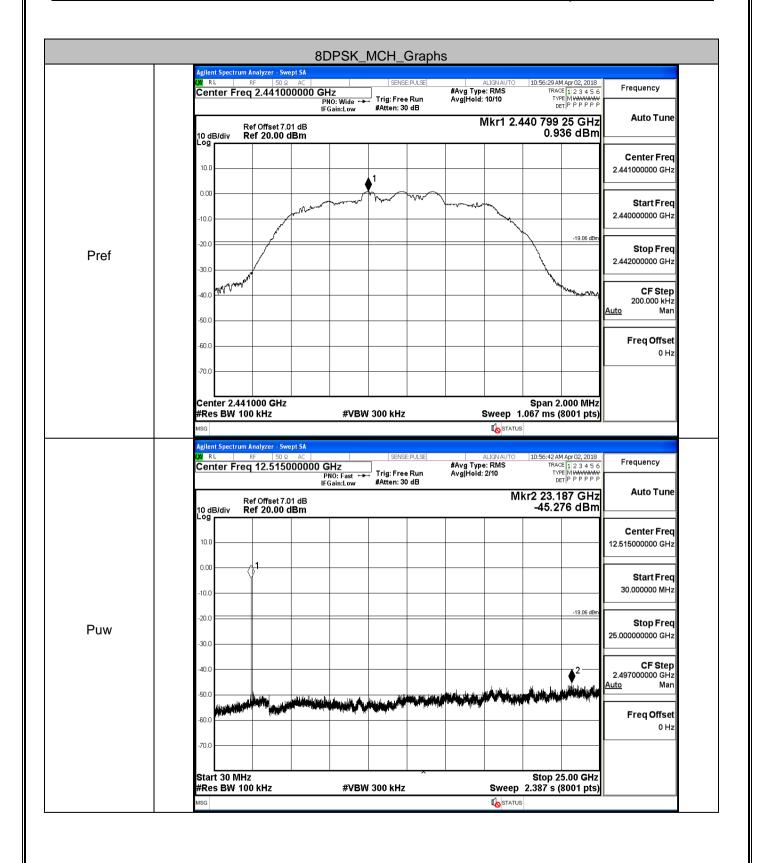








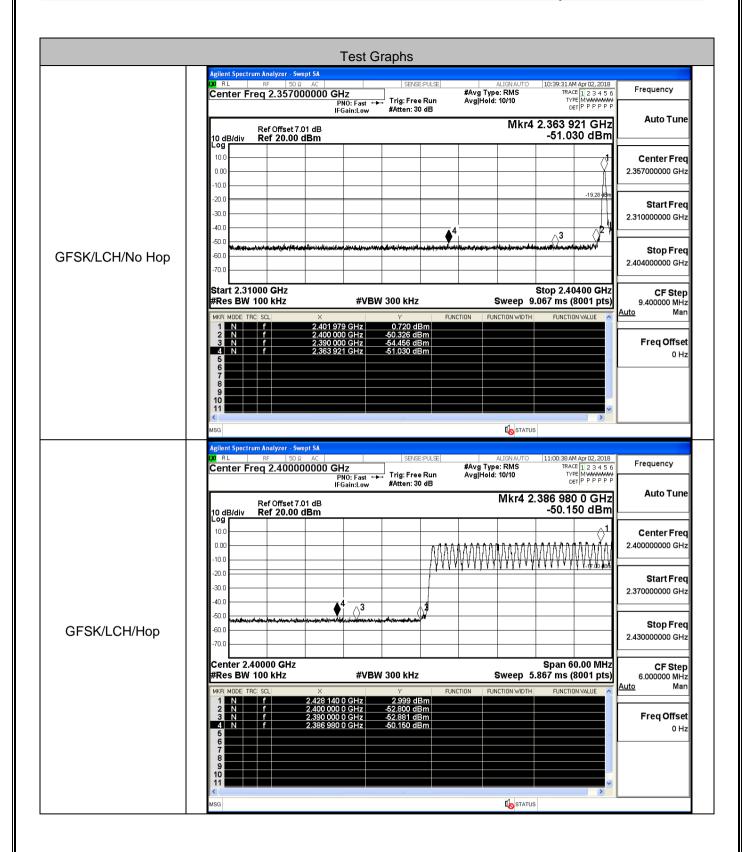


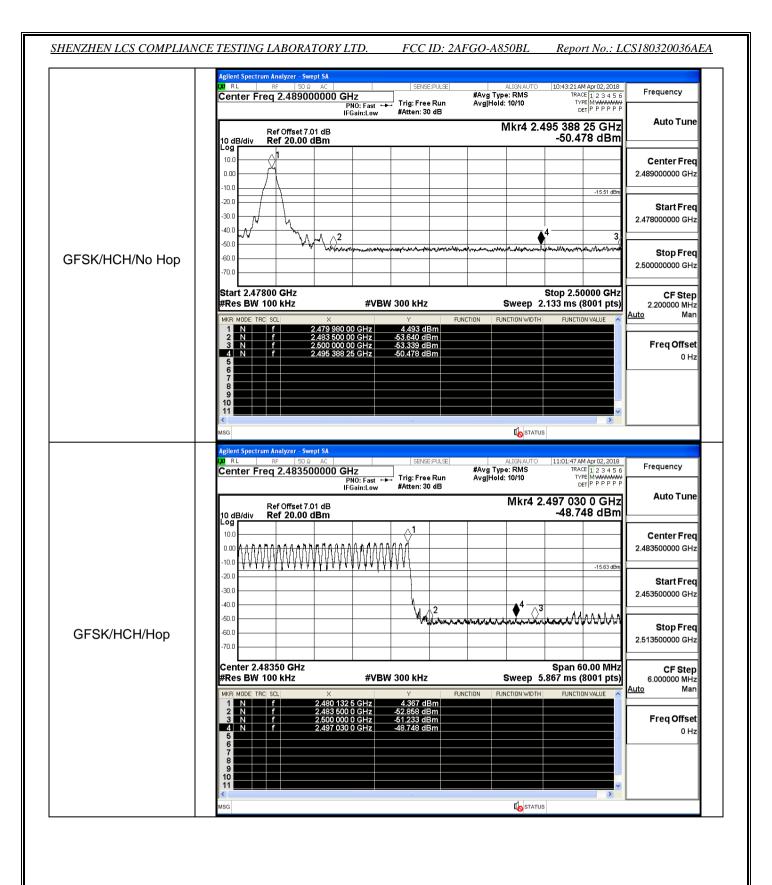


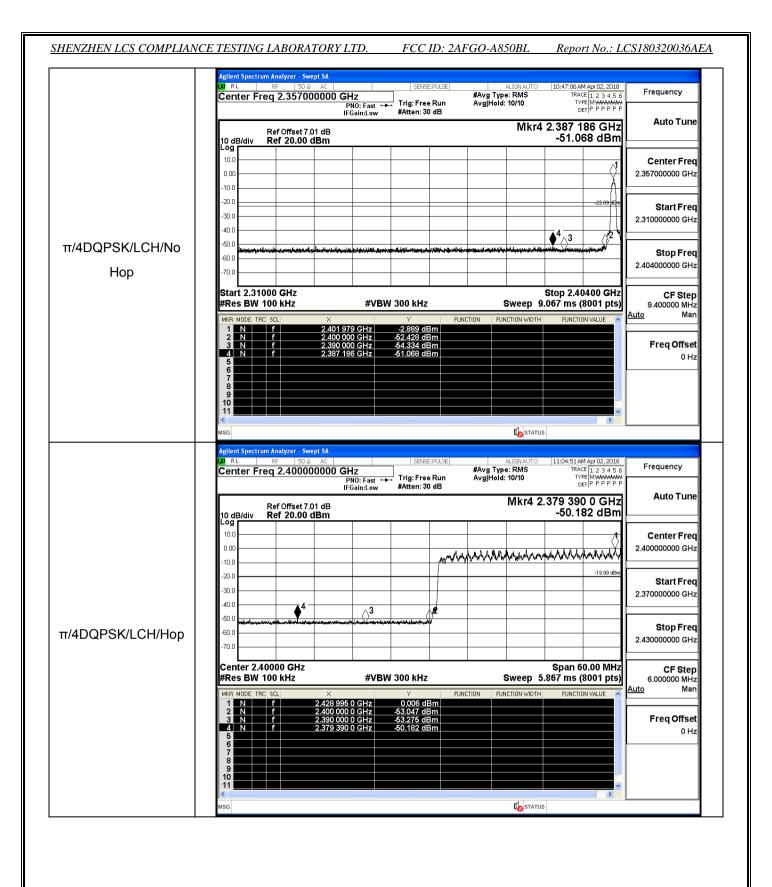
STATUS

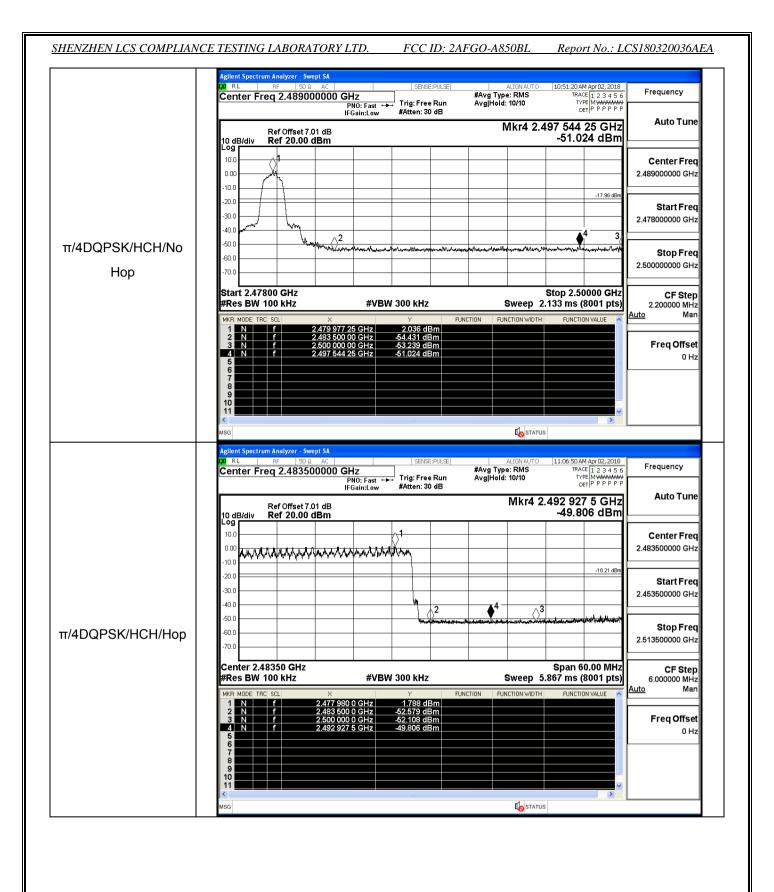
# A.7 Band-edge for RF Conducted Emissions

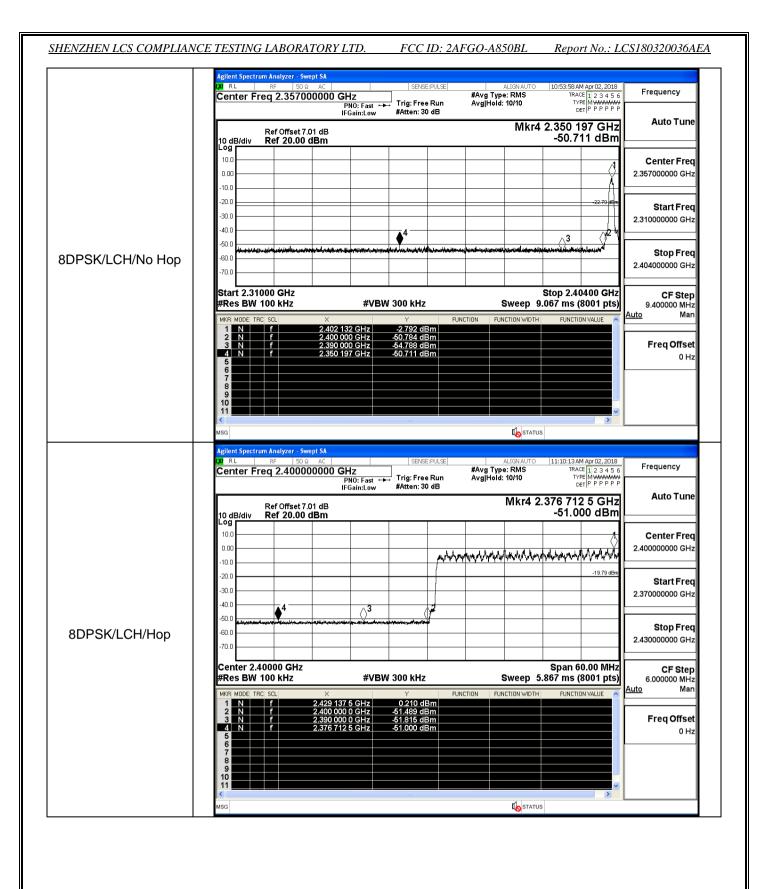
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict		
		0.400	0.720	Off	-51.030	-19.28	PASS		
0.501/	LCH	2402	2.999	On	-50.150	-17	PASS		
GFSK	нсн		4.493	Off	-50.478	-15.51	PASS		
		2480	4.367	On	-48.748	-15.63	PASS		
	LCH				-2.889	Off	-51.068	-22.89	PASS
		2402	0.006	On	-50.182	-19.99	PASS		
π/4DQPSK	нсн		2.036	Off	-51.024	-17.96	PASS		
		2480	1.788	On	-49.806	-18.21	PASS		
		.CH 2402	-2.792	Off	-50.711	-22.79	PASS		
	LCH		0.210	On	-51.000	-19.79	PASS		
8DPSK			2.101	Off	-50.459	-17.9	PASS		
	HCH	2480	1.934	On	-49.522	-18.07	PASS		

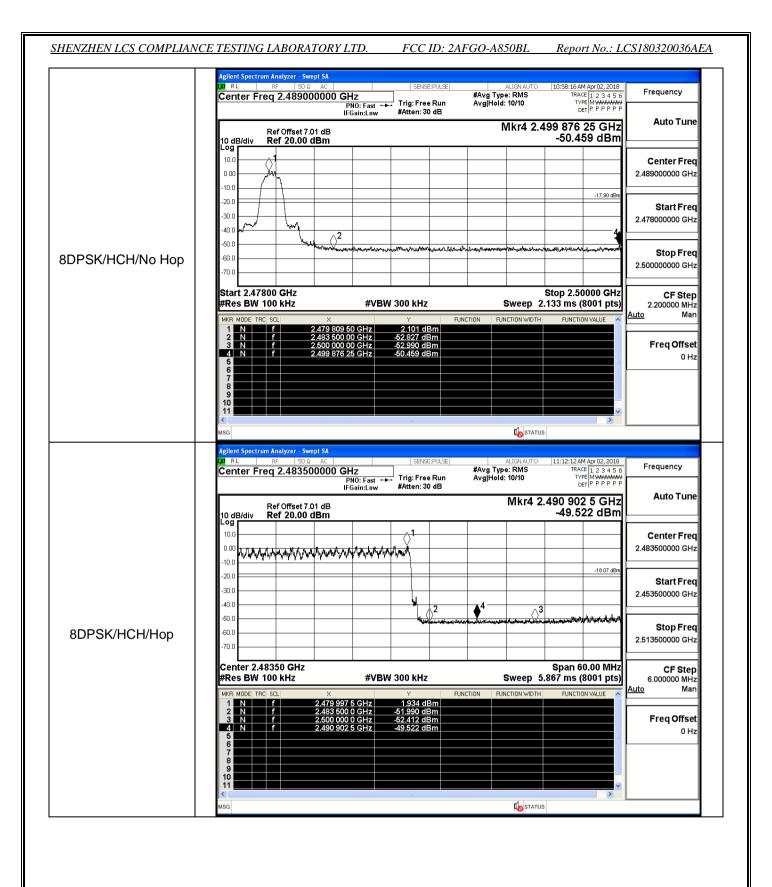




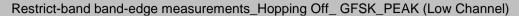


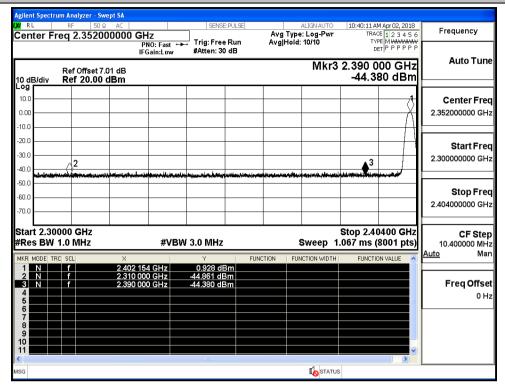




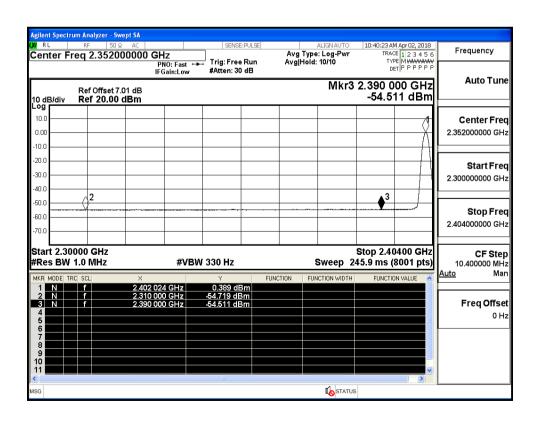


Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-44.86	2.0	0	50.40	PEAK	74	PASS
	Off	2310.0	-54.72	2.0	0	40.54	AV	54	PASS
	Off	2390.0	-44.38	2.0	0	50.88	PEAK	74	PASS
	Off	2390.0	-54.51	2.0	0	40.75	AV	54	PASS
GFSK	Off	2483.5	-42.81	2.0	0	52.45	PEAK	74	PASS
	Off	2483.5	-52.09	2.0	0	43.17	AV	54	PASS
	Off	2500.0	-43.89	2.0	0	51.37	PEAK	74	PASS
	Off	2500.0	-54.10	2.0	0	41.16	AV	54	PASS
	Off	2310.0	-44.41	2.0	0	50.85	PEAK	74	PASS
	Off	2310.0	-54.75	2.0	0	40.51	AV	54	PASS
	Off	2390.0	-44.36	2.0	0	50.90	PEAK	74	PASS
	Off	2390.0	-54.58	2.0	0	40.68	AV	54	PASS
π/4DQPSK	Off	2483.5	-45.02	2.0	0	50.24	PEAK	74	PASS
	Off	2483.5	-53.61	2.0	0	41.65	AV	54	PASS
	Off	2500.0	-44.42	2.0	0	50.83	PEAK	74	PASS
	Off	2500.0	-54.06	2.0	0	41.20	AV	54	PASS
	Off	2310.0	-44.50	2.0	0	50.76	PEAK	74	PASS
	Off	2310.0	-54.81	2.0	0	40.45	AV	54	PASS
	Off	2390.0	-45.30	2.0	0	49.96	PEAK	74	PASS
	Off	2390.0	-54.46	2.0	0	40.80	AV	54	PASS
8DPSK	Off	2483.5	-44.19	2.0	0	51.07	PEAK	74	PASS
	Off	2483.5	-53.52	2.0	0	41.74	AV	54	PASS
	Off	2500.0	-43.64	2.0	0	51.62	PEAK	74	PASS
	Off	2500.0	-54.13	2.0	0	41.13	AV	54	PASS

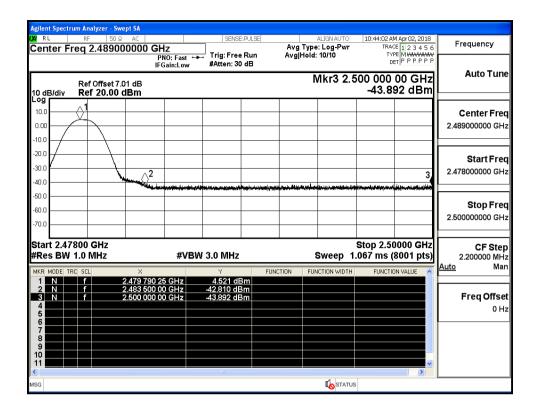




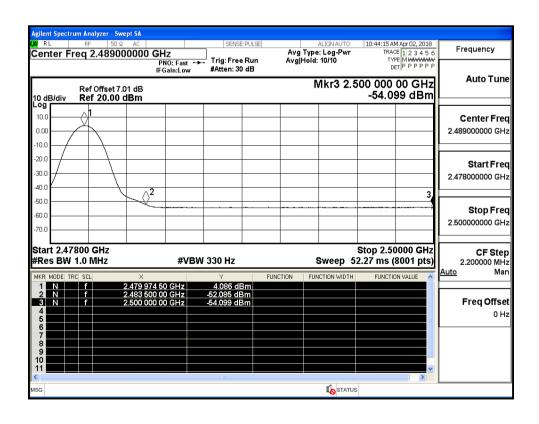
# Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (Low Channel)



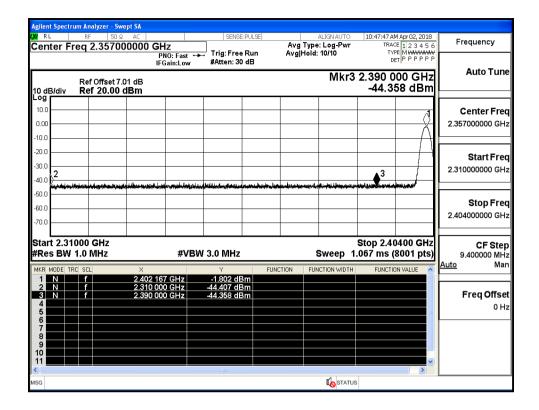
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_PEAK (High Channel)



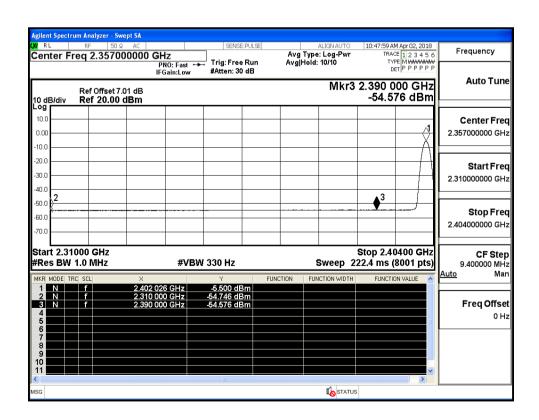
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (High Channel)



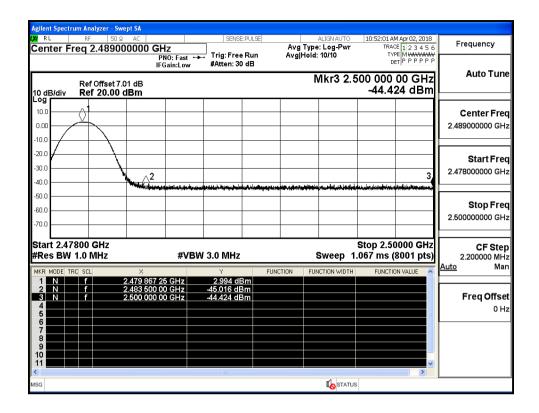
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (Low Channel)



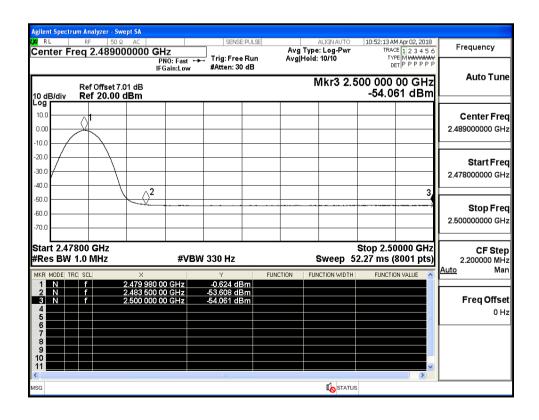
# Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (Low Channel)



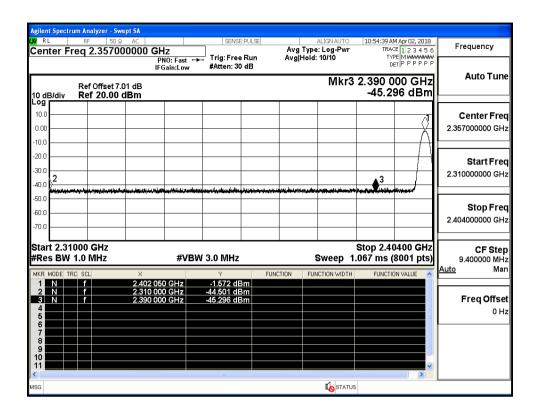
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (High Channel)



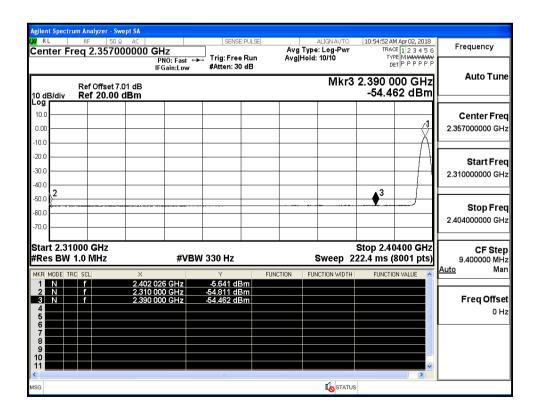
# Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (High Channel)



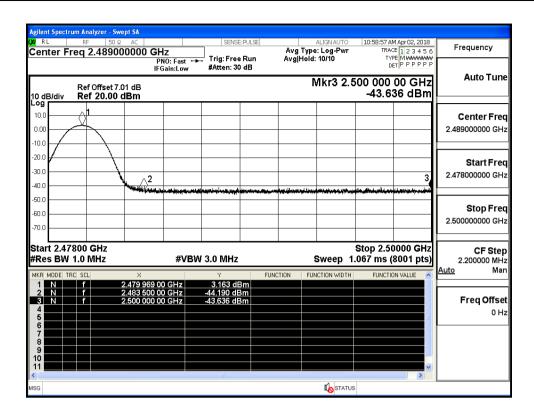
# Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_PEAK (Low Channel)



# 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)

