Appendix A

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

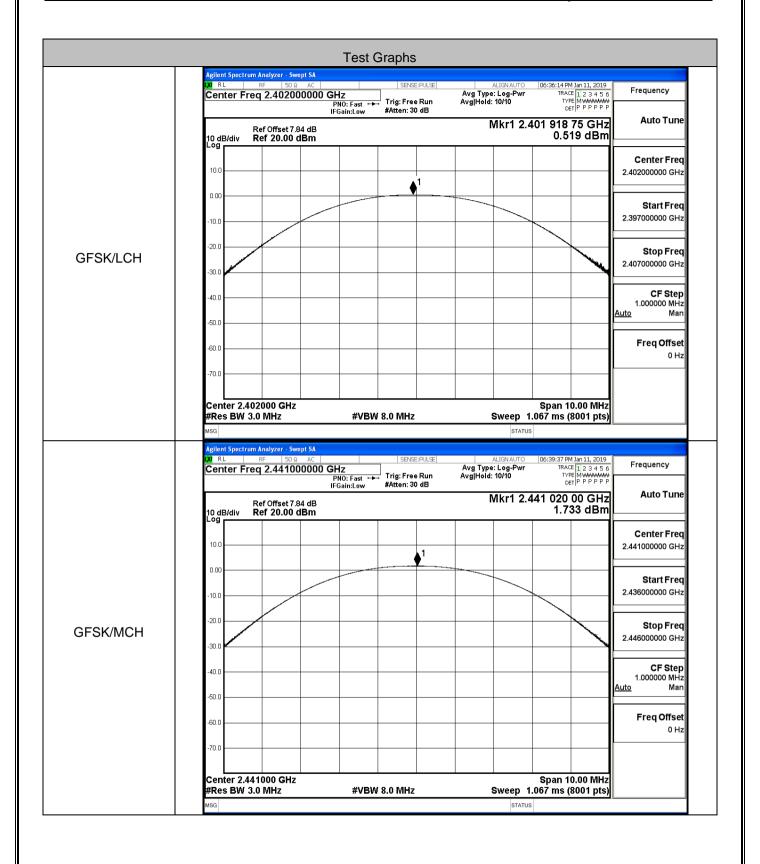
Product Name: POS Terminal Trade Mark: SmartPeak Test Model: P500

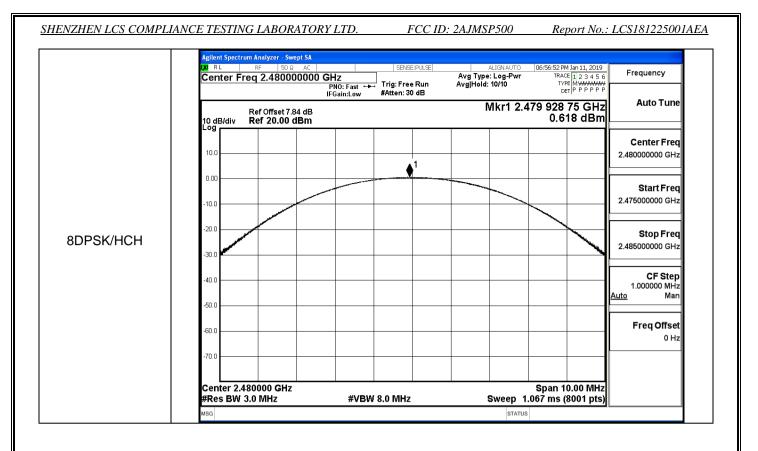
Environmental Conditions

Temperature:	24.1 ° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom Liu
Supervised by:	Jayden Zhuo

A.1 Maxmum Conducted Peak Output Power

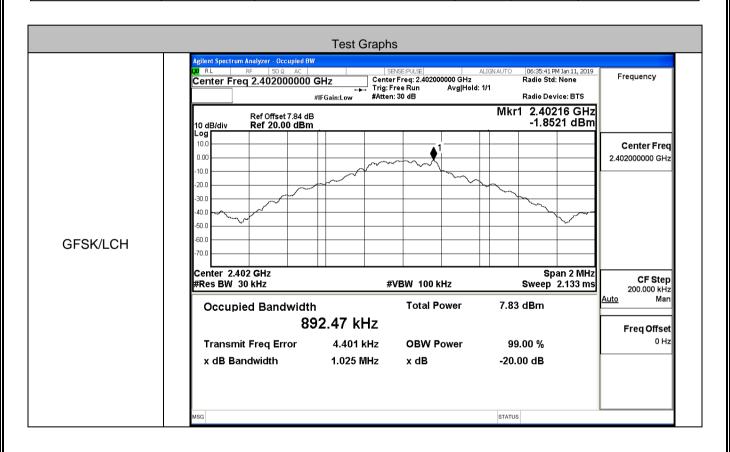
Mode	Channel.	Maximum Peak Output Power [dBm]	Maximum Average Output Power [dBm]	Limit [dBm]	Verdict
	LCH	0.519	0.385	21	PASS
GFSK	MCH	1.733	1.563	21	PASS
	НСН	1.187	1.031	21	PASS
	LCH	-0.163	-0.356	21	PASS
π/4DQPSK	MCH	1.001	0.808	21	PASS
	HCH	0.415	0.267	21	PASS
8DPSK	LCH	-0.133	-0.332	21	PASS
	MCH	1.119	0.975	21	PASS
	НСН	0.618	0.490	21	PASS





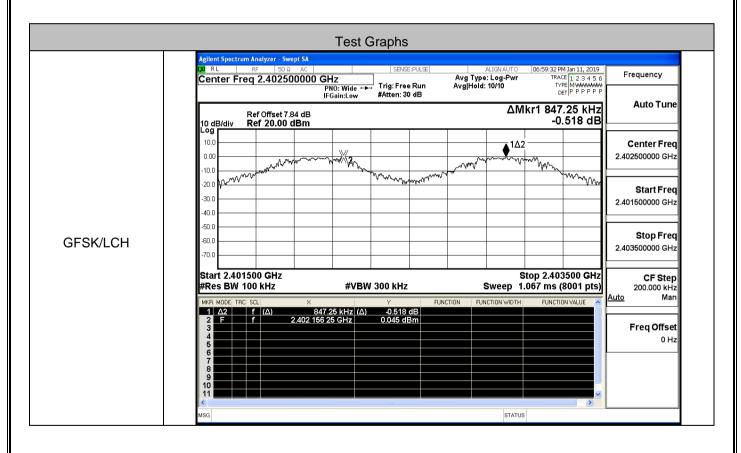
A.2 20dB Bandwidth

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	1.025	Not Specified	PASS
GFSK	MCH	1.028	Not Specified	PASS
	HCH	1.035	Not Specified	PASS
	LCH	1.293	Not Specified	PASS
π/4DQPSK	MCH	1.309	Not Specified	PASS
	НСН	1.312	Not Specified	PASS
	LCH	1.298	Not Specified	PASS
8DPSK	MCH	1.298	Not Specified	PASS
	НСН	1.298	Not Specified	PASS

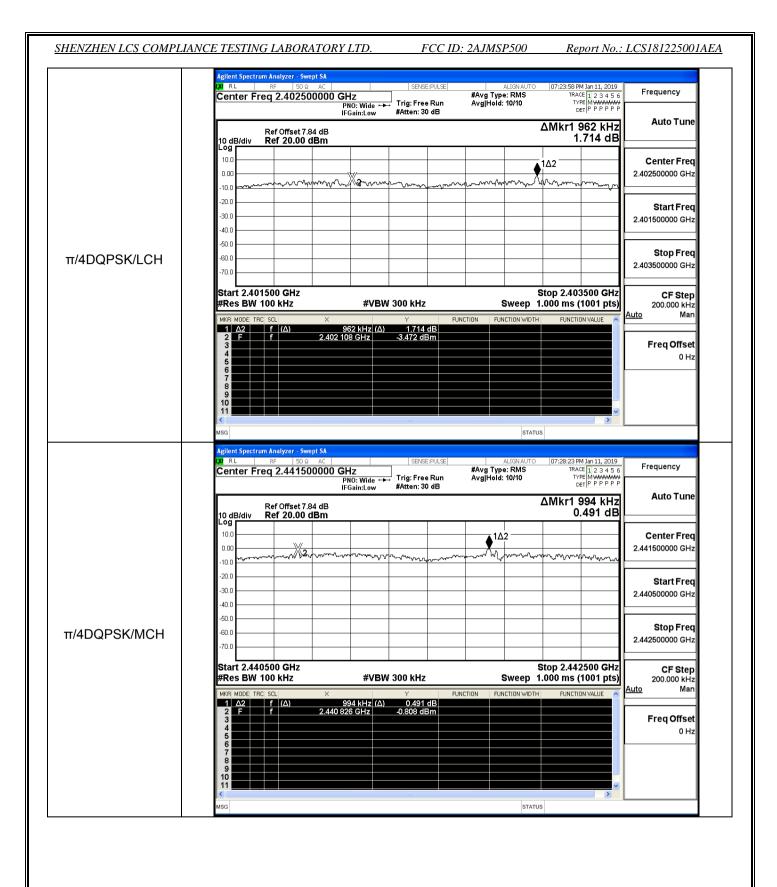


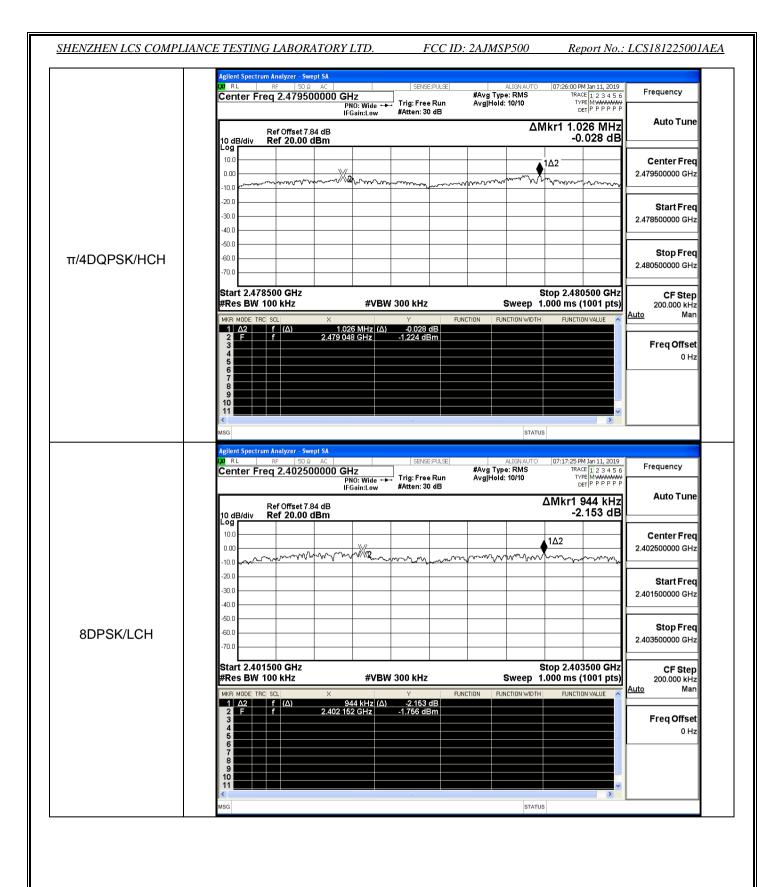
A.3 Carrier Frequency Separation

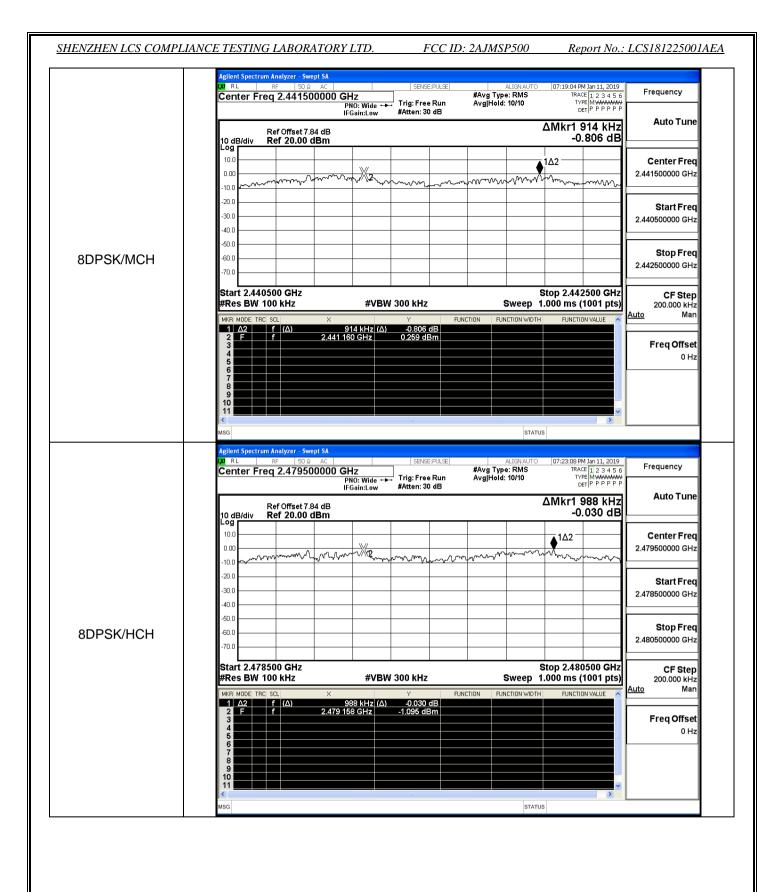
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	0.847	0.690	PASS
GFSK	MCH	1.300	0.690	PASS
	HCH	0.928	0.690	PASS
	LCH	0.962	0.875	PASS
π/4DQPSK	MCH	0.994	0.875	PASS
	HCH	1.026	0.875	PASS
	LCH	0.944	0.865	PASS
8DPSK	DPSK MCH 0.914		0.865	PASS
	HCH	0.988	0.865	PASS





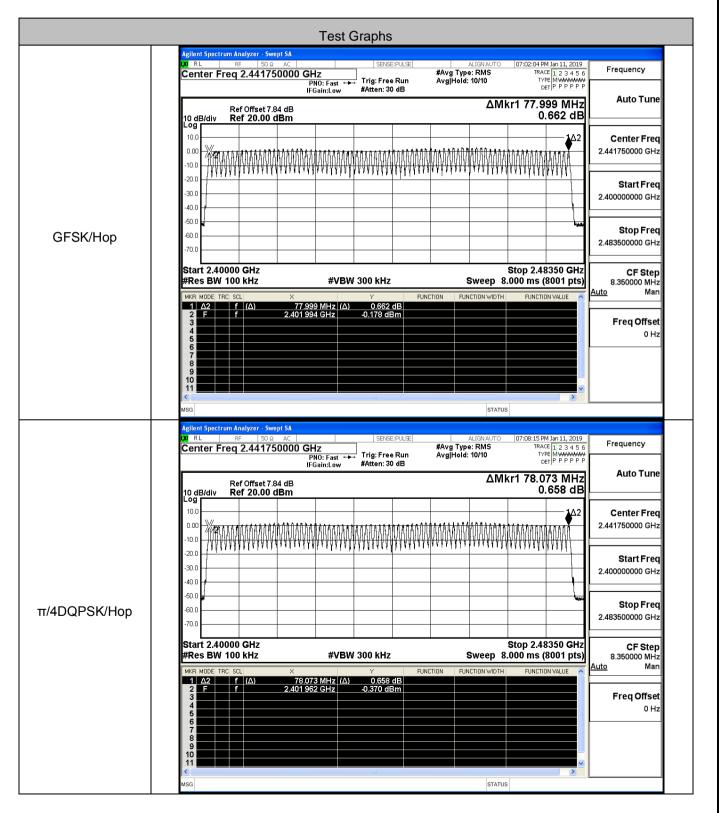




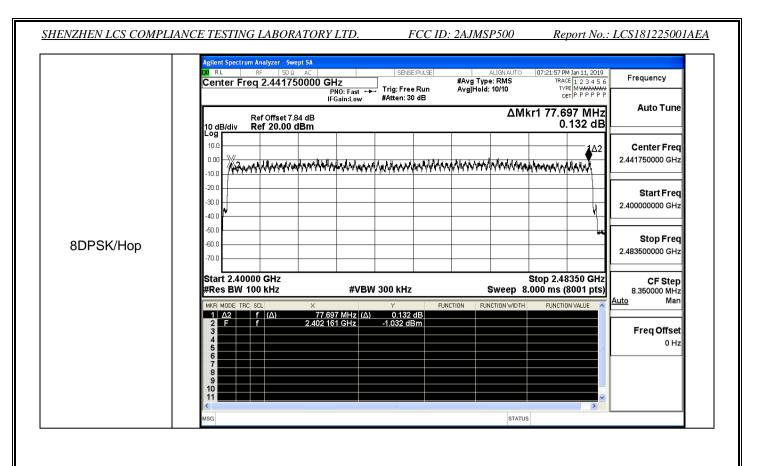


A.4 Hopping Channel Number

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

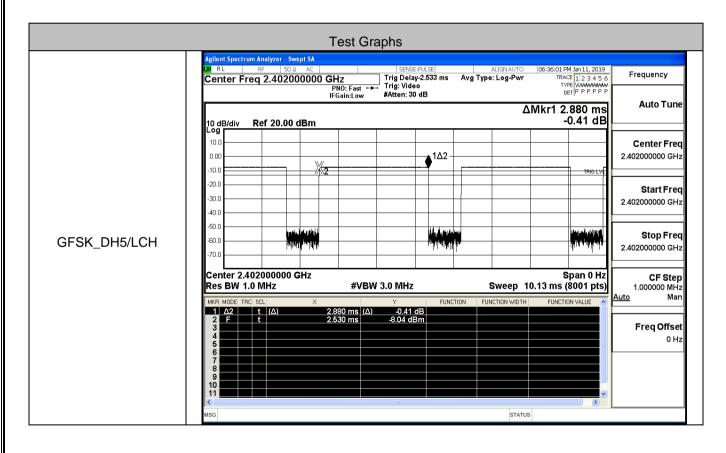


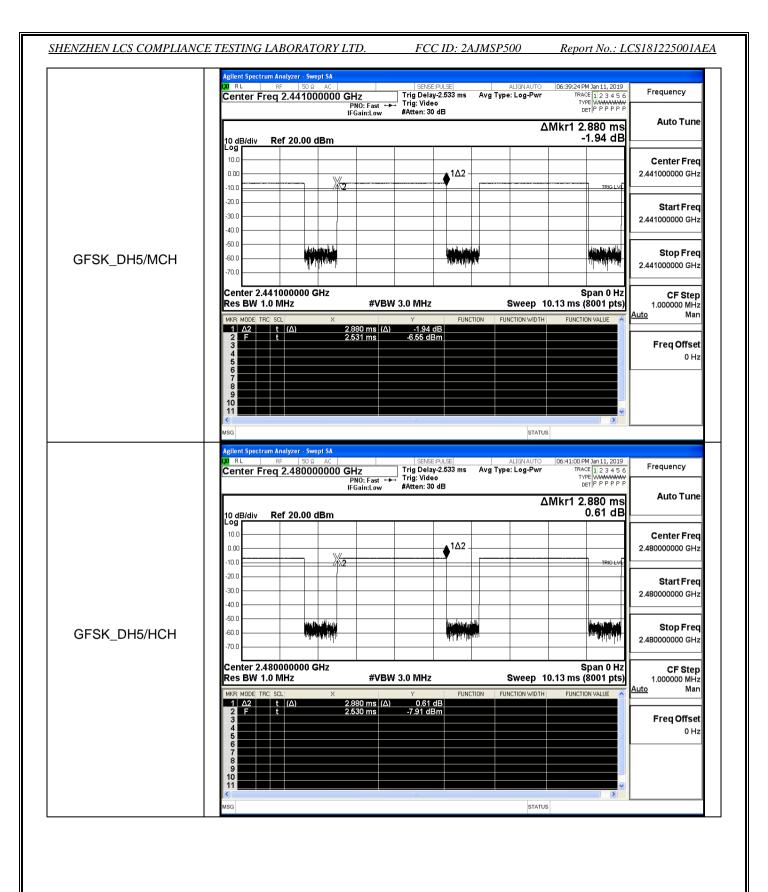
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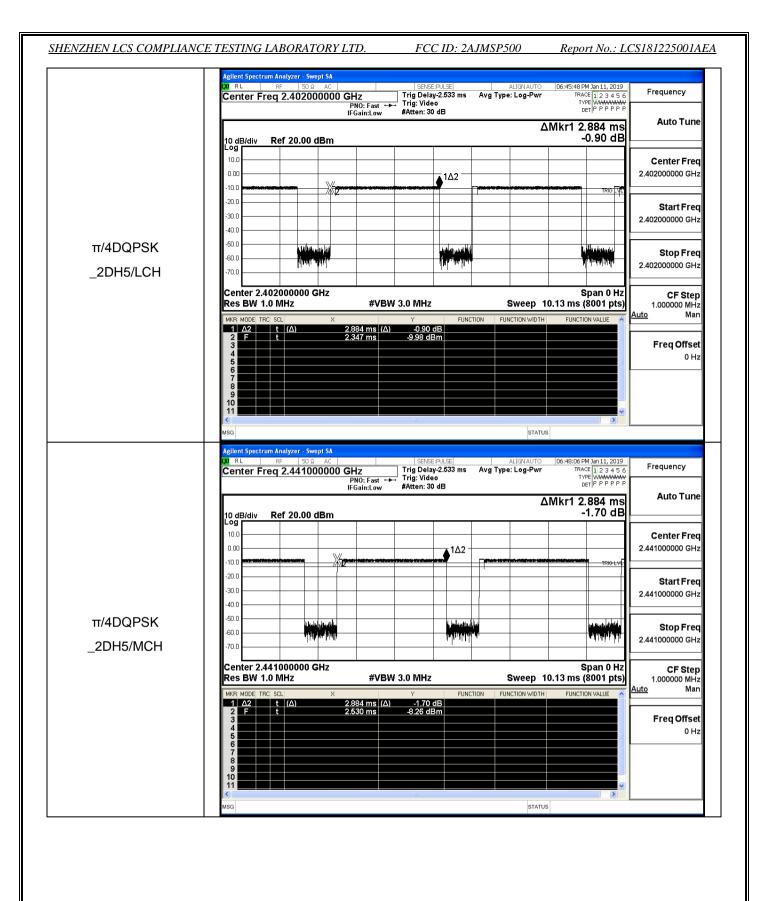


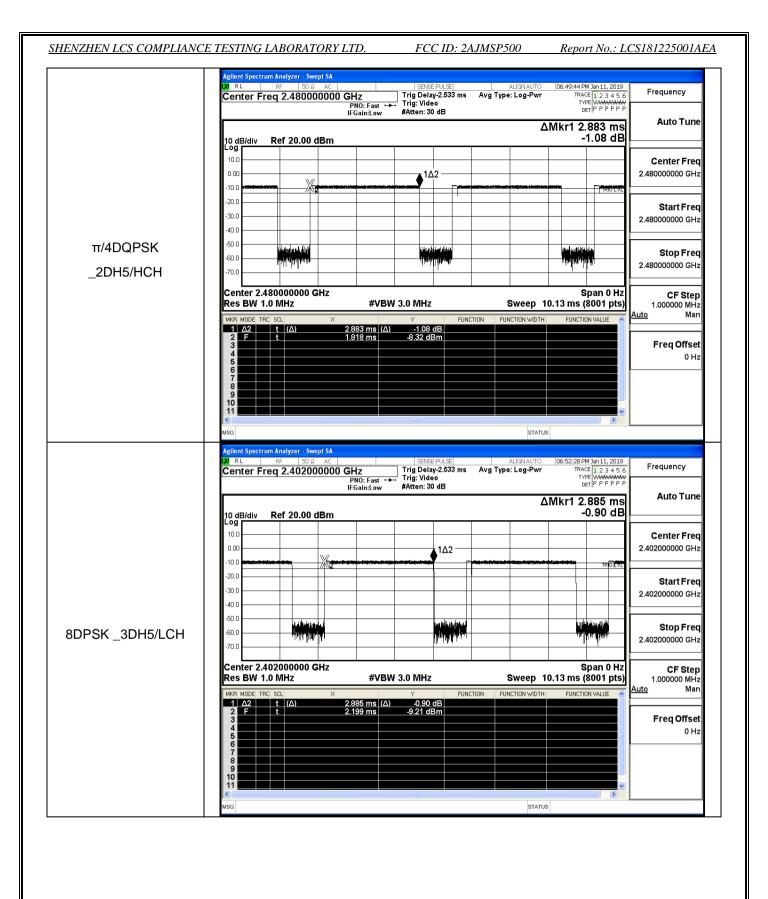
A.5 Dwell Time

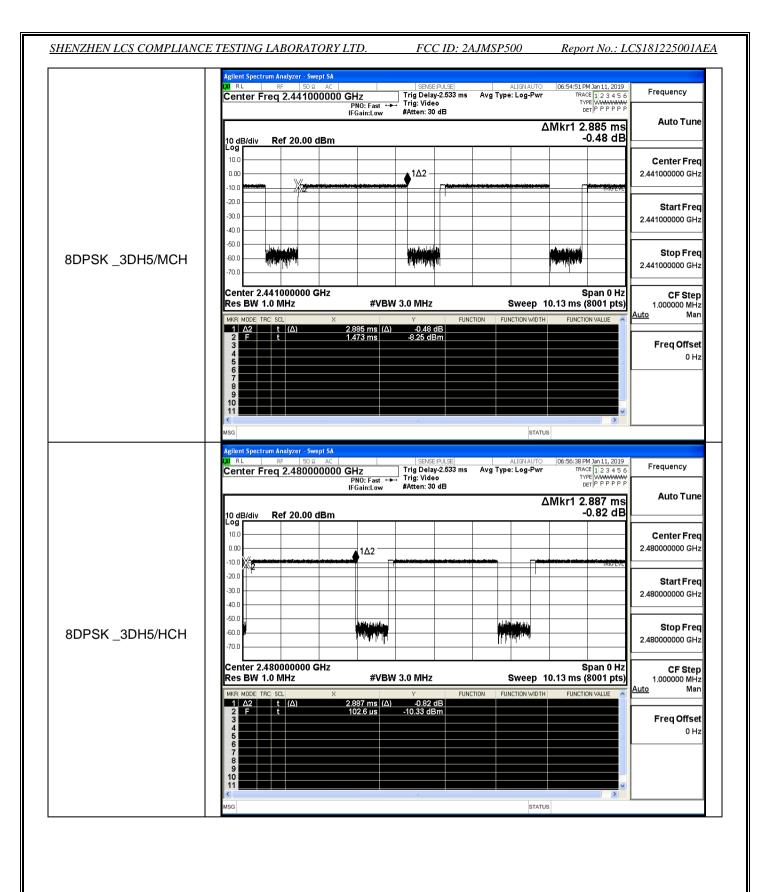
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
	DH5	LCH	2.88	106.7	0.307	0.4	PASS
GFSK	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	HCH	2.88	106.7	0.307	0.4	PASS
	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
π/4DQPSK	2DH5	MCH	2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	2.88	106.7	0.307	0.4	PASS
	3DH5	LCH	2.89	106.7	0.308	0.4	PASS
8DPSK	3DH5	MCH	2.89	106.7	0.308	0.4	PASS
	3DH5	НСН	2.89	106.7	0.308	0.4	PASS





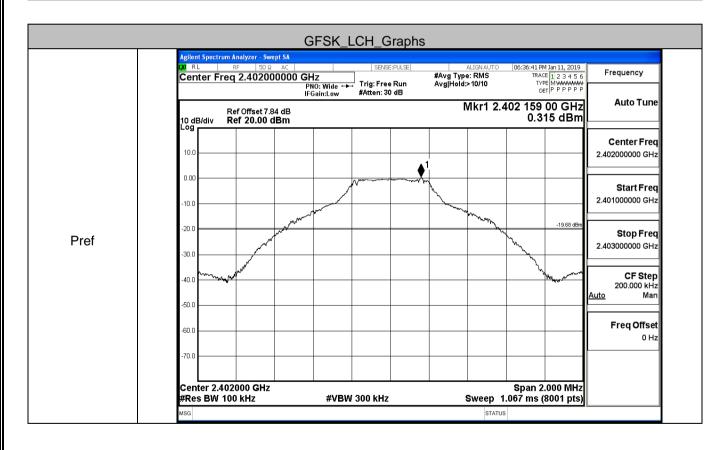




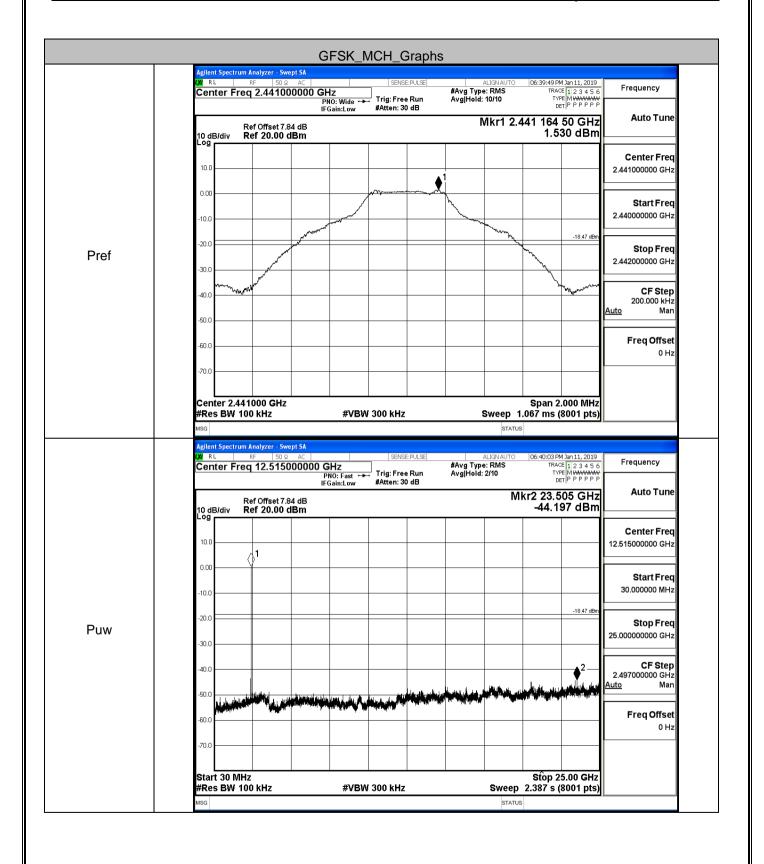


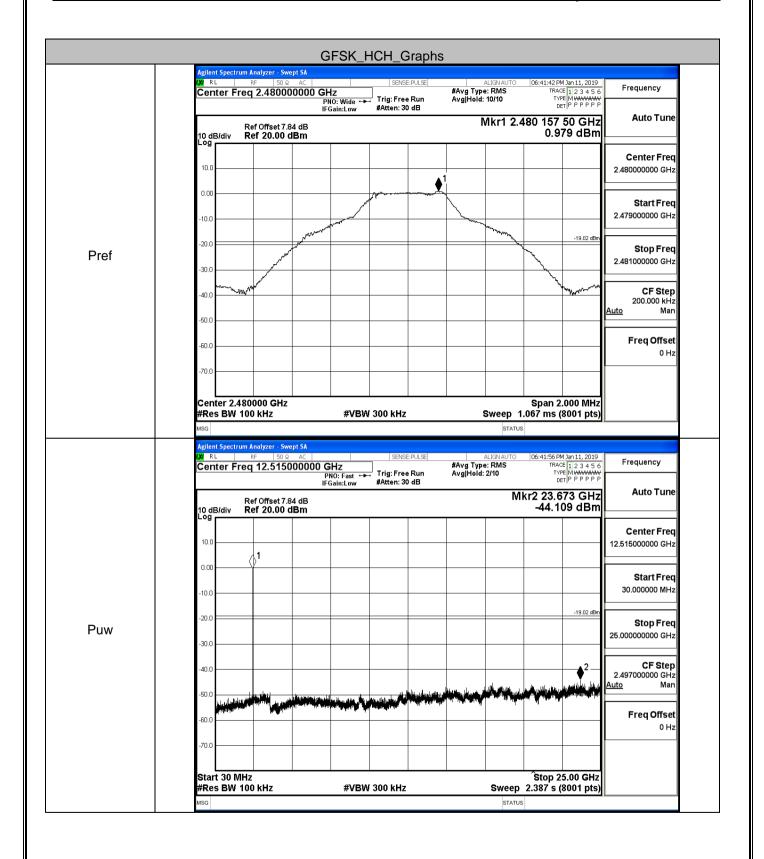
A.6 RF Conducted Spurious Emissions

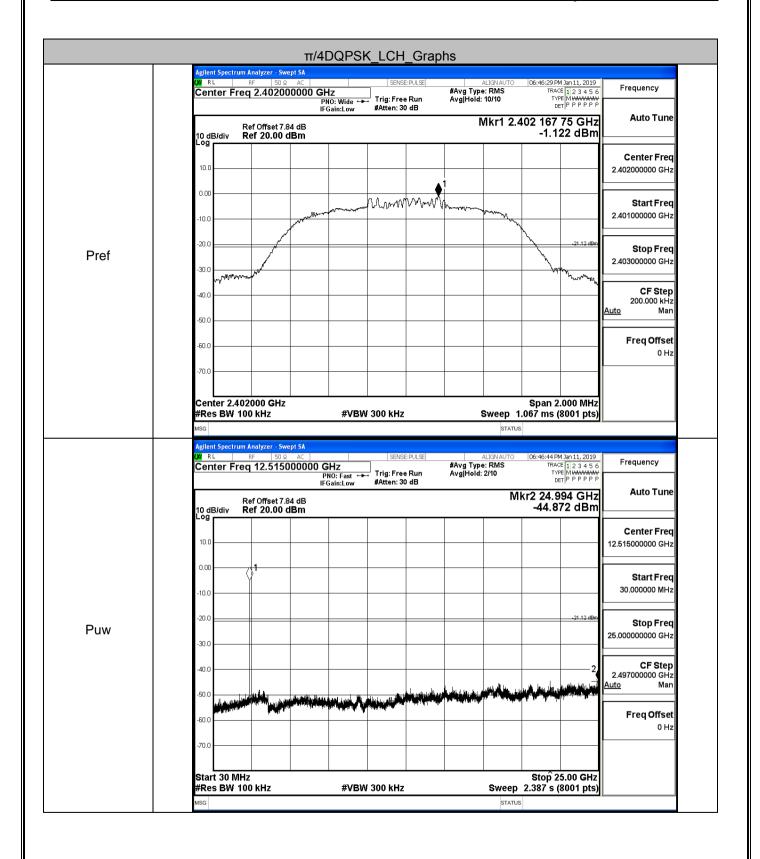
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	0.315	-45.053	-19.685	PASS
GFSK	MCH	1.53	-44.197	-18.470	PASS
	HCH	0.979	-44.109	-19.021	PASS
	LCH	-1.122	-44.872	-21.122	PASS
π/4DQPSK	MCH	0.033	-45.226	-19.967	PASS
	HCH	-0.456	-45.152	-20.456	PASS
	LCH	-1.098	-43.673	-21.098	PASS
8DPSK	MCH	0.197	-42.727	-19.803	PASS
	HCH	-0.35	-43.927	-20.350	PASS

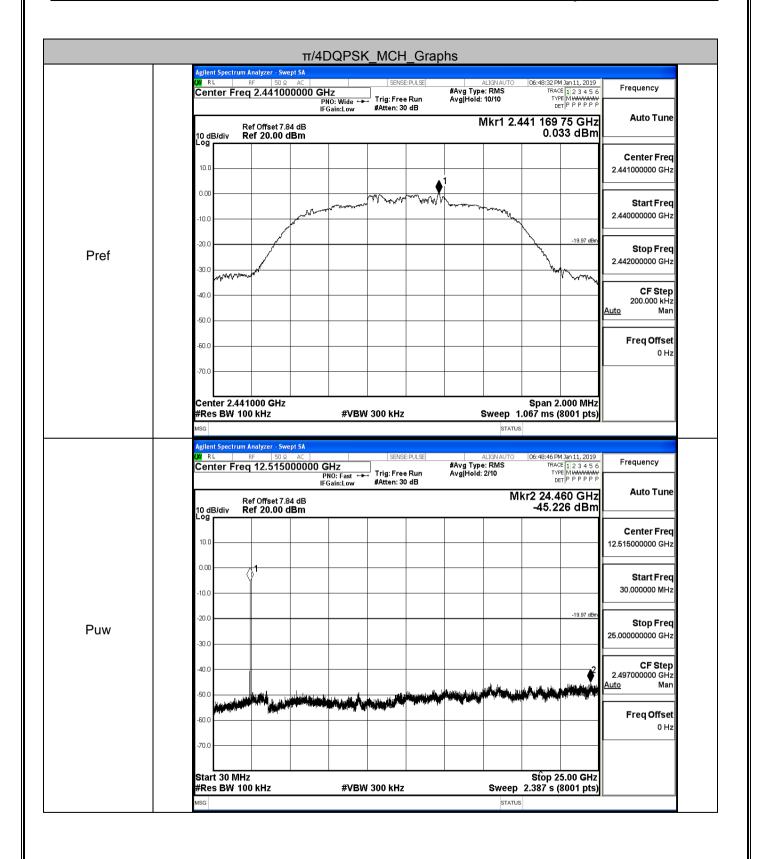


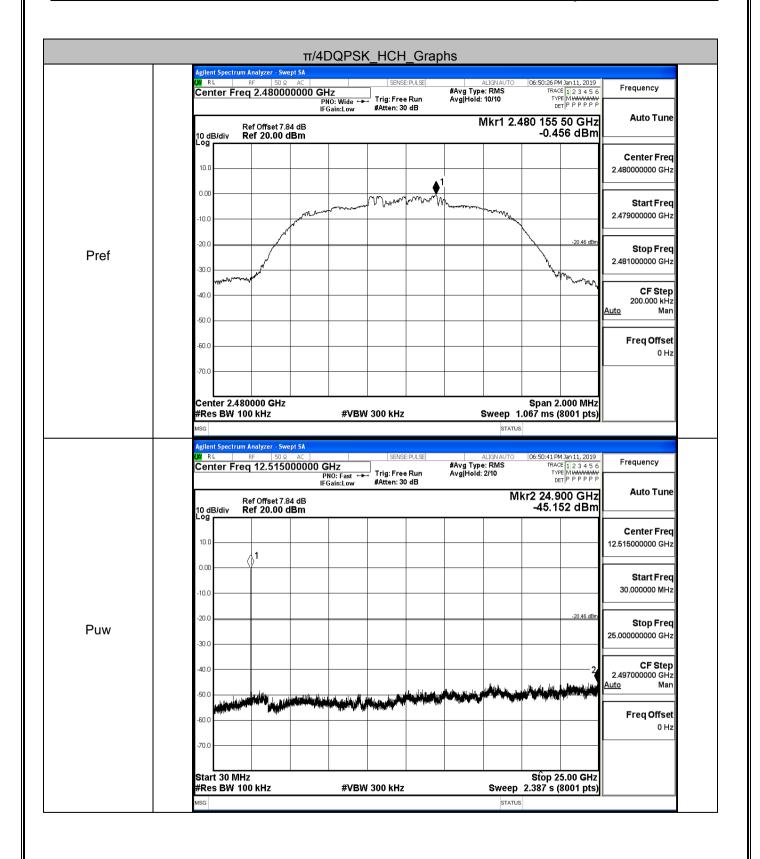
STATUS

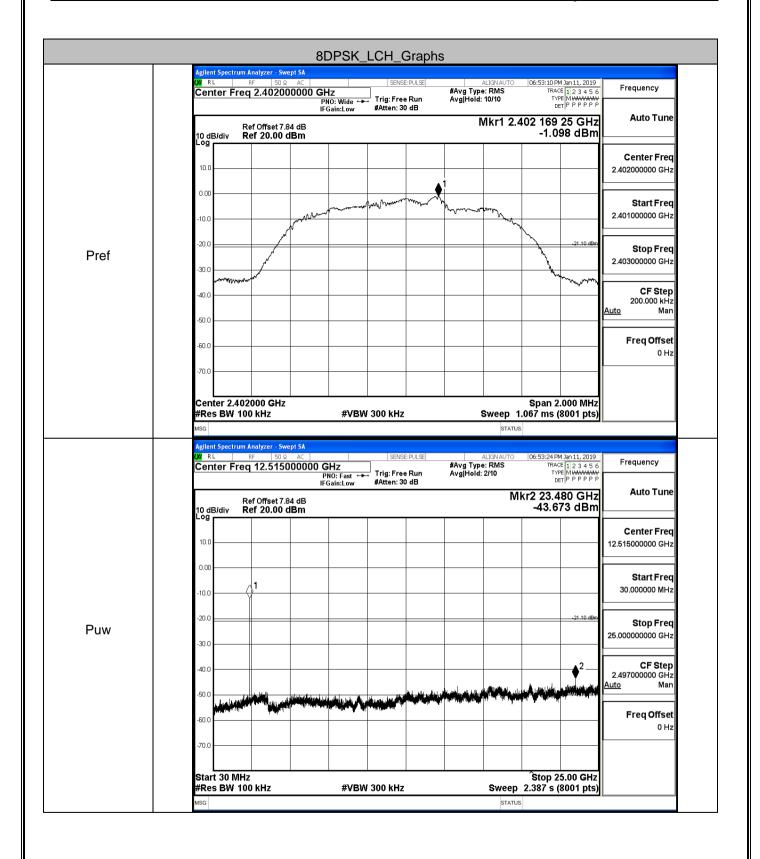


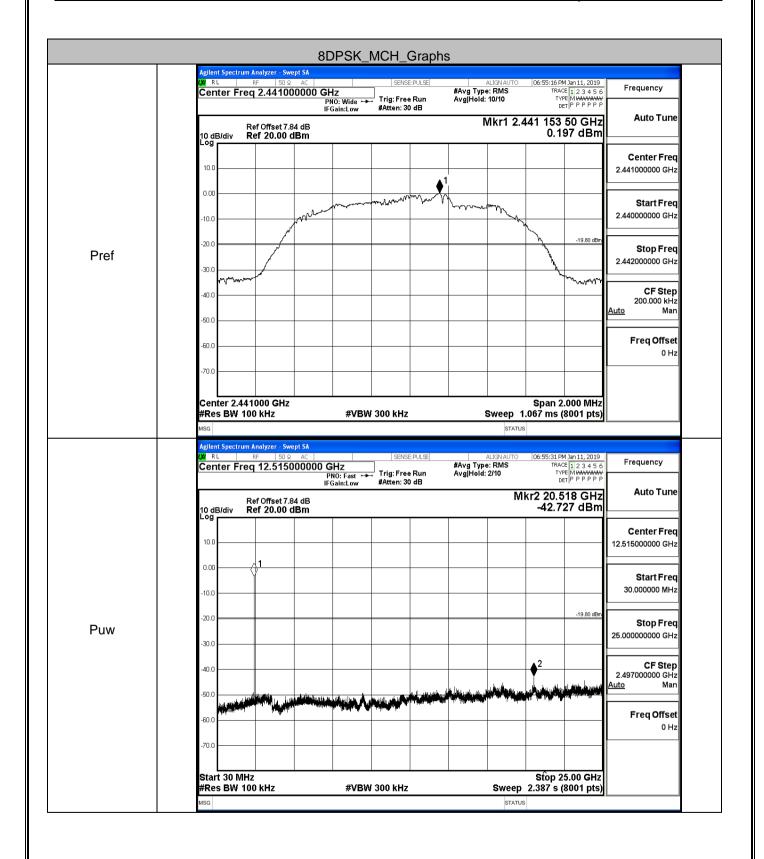






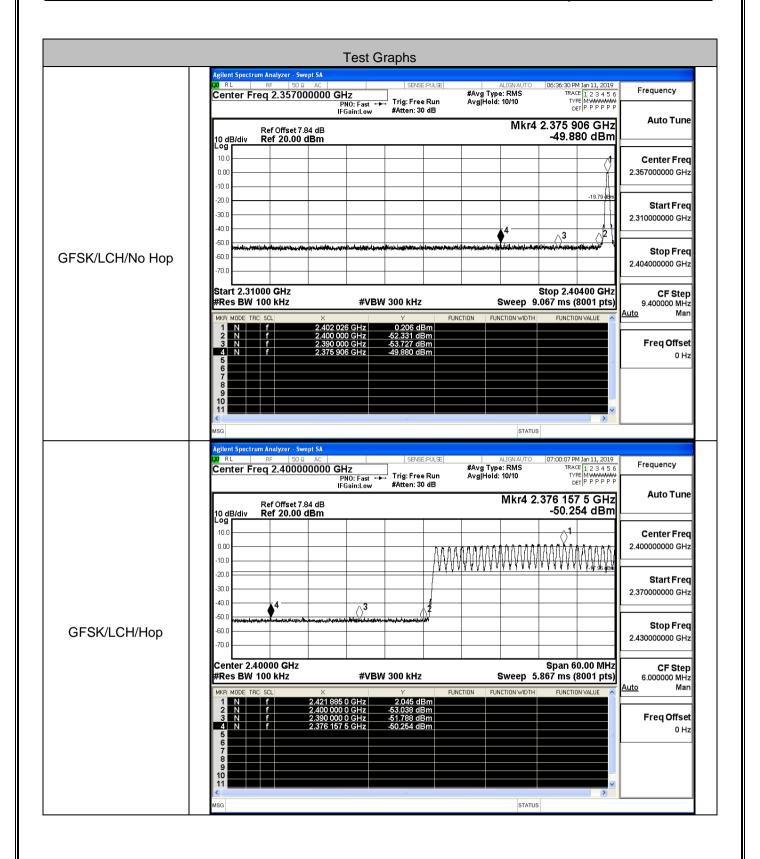


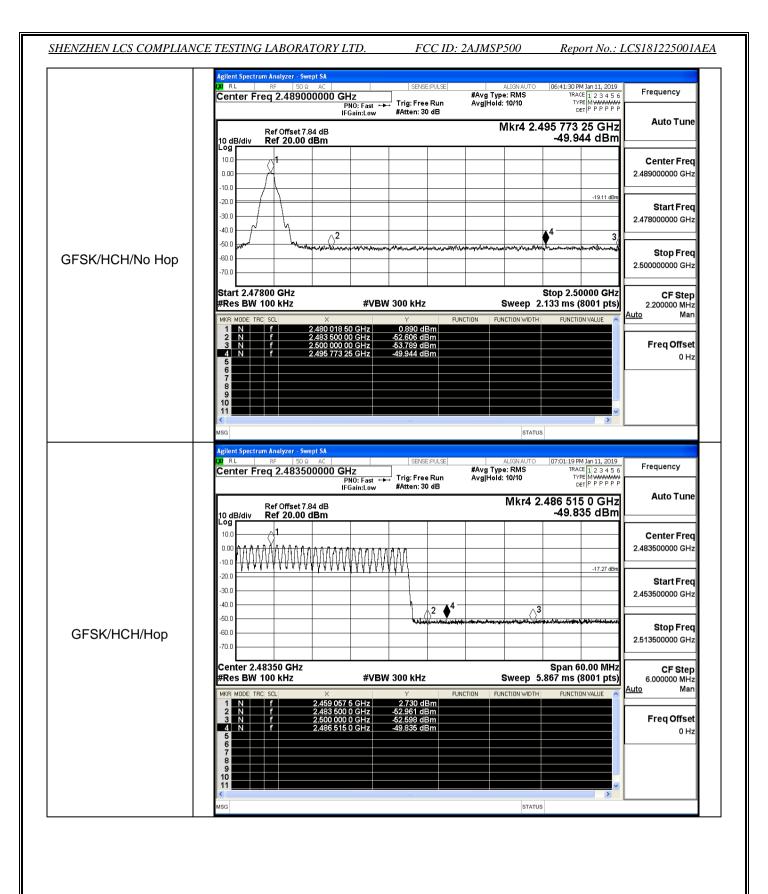


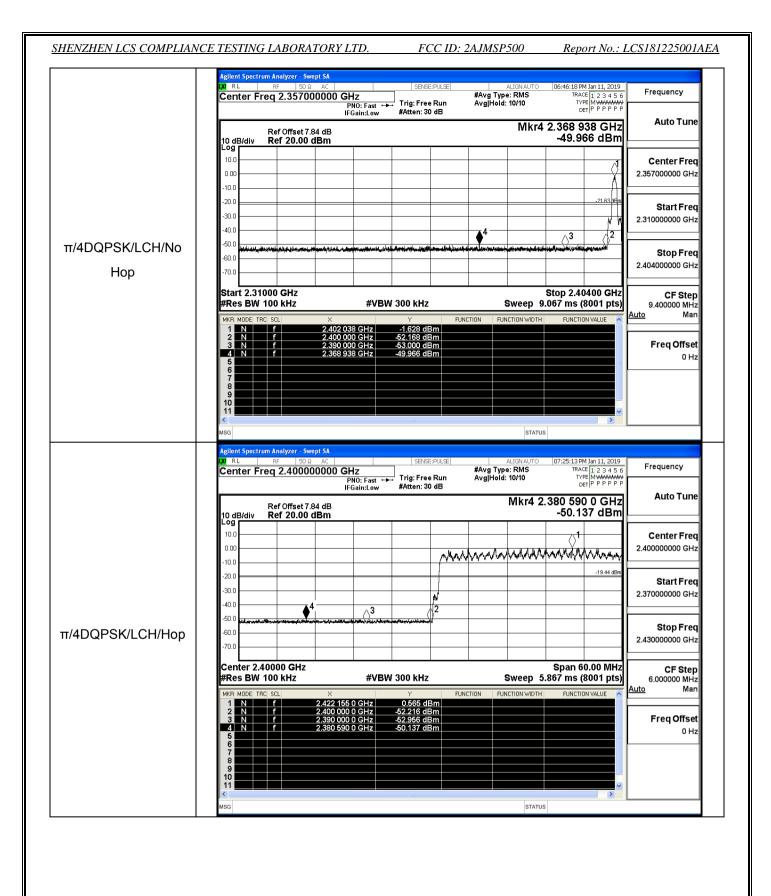


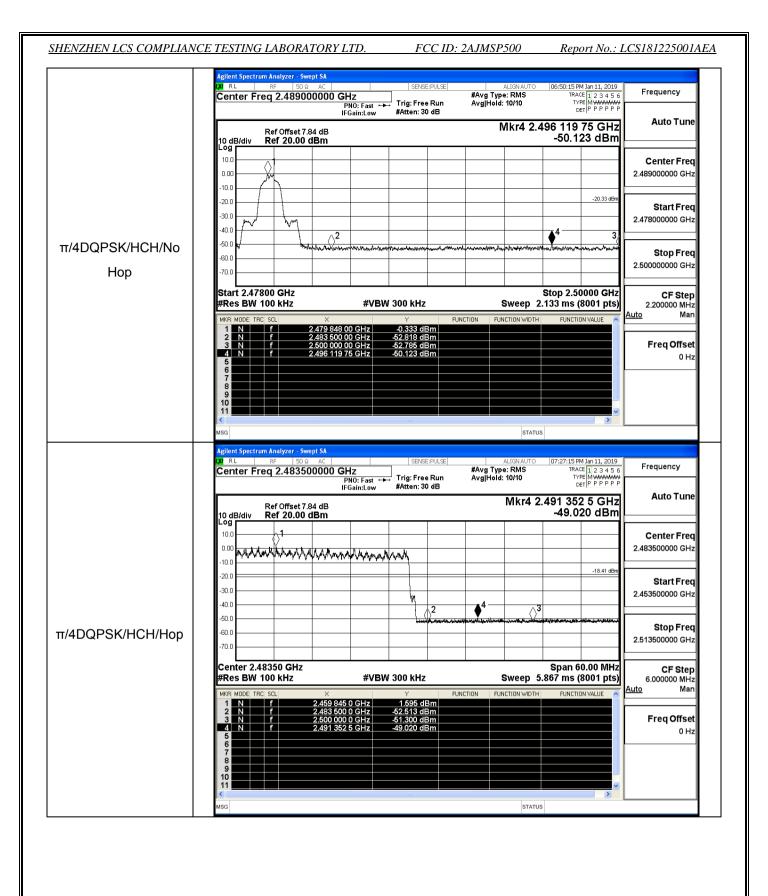
A.7 Band-edge for RF Conducted Emissions

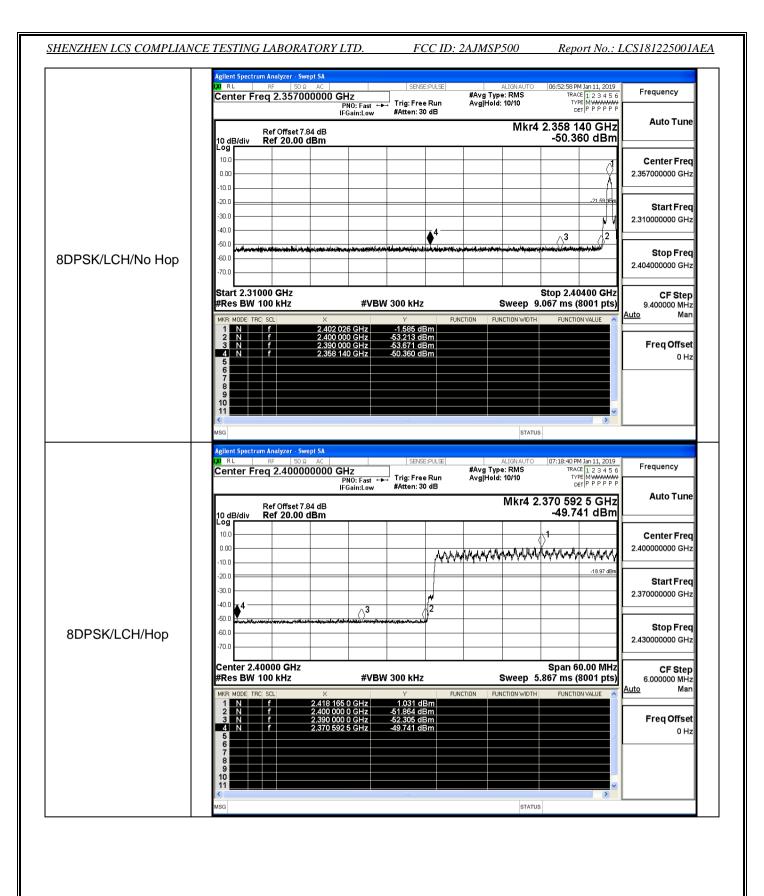
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict				
			0.206	Off	-49.880	-19.79	PASS				
0.501/	LCH	2402	2.045	On	-50.254	-17.96	PASS				
GFSK	НСН			0.890	Off	-49.944	-19.11	PASS			
		2480	2.730	On	-49.835	-17.27	PASS				
	LCH						-1.628	Off	-49.966	-21.63	PASS
		2402	0.565	On	-50.137	-19.44	PASS				
π/4DQPSK	НСН		-0.333	Off	-50.123	-20.33	PASS				
		2480	1.595	On	-49.020	-18.41	PASS				
		CH 2402	-1.585	Off	-50.360	-21.59	PASS				
	LCH		1.031	On	-49.741	-18.97	PASS				
8DPSK			-0.203	Off	-50.307	-20.2	PASS				
	HCH	2480	1.641	On	-49.209	-18.36	PASS				

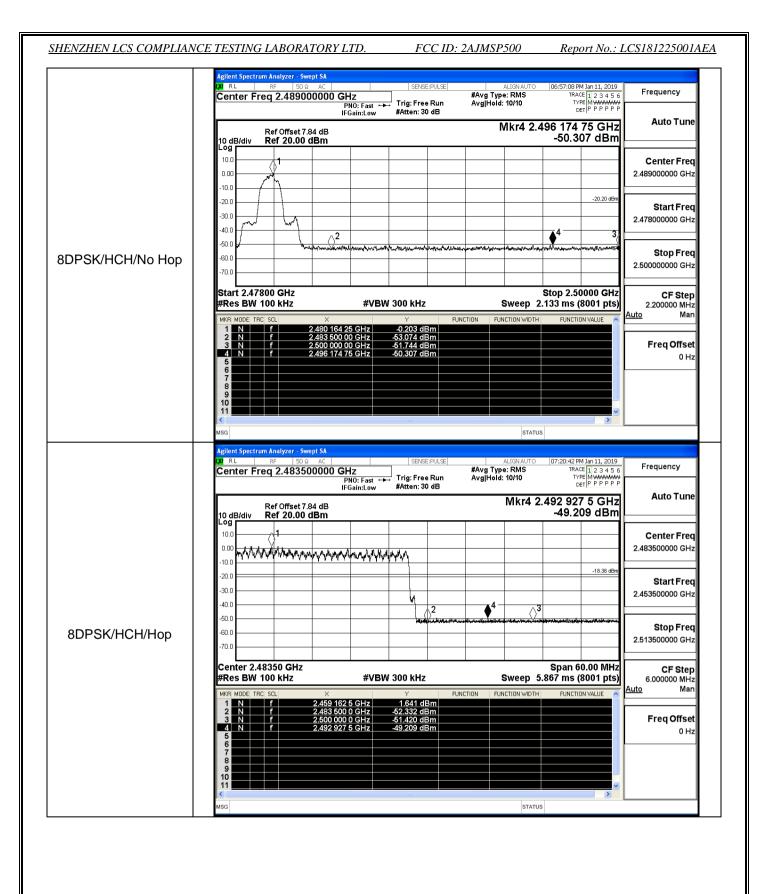






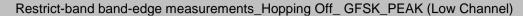


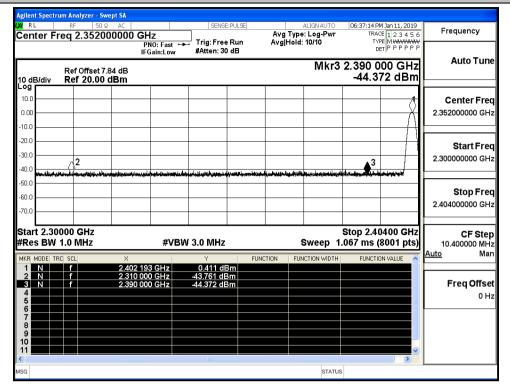




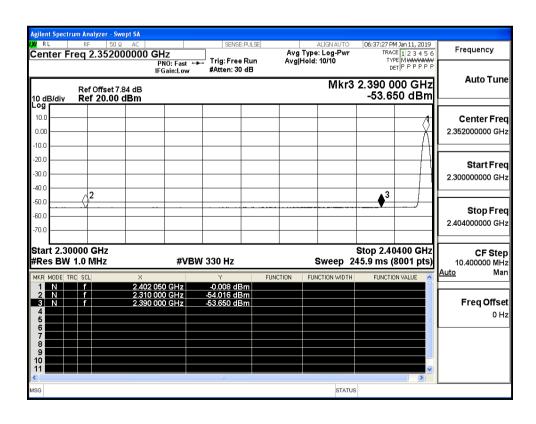
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-43.76	2.0	0	53.50	PEAK	74	PASS
	Off	2310.0	-54.02	2.0	0	43.24	AV	54	PASS
	Off	2390.0	-44.37	2.0	0	52.89	PEAK	74	PASS
05014	Off	2390.0	-53.65	2.0	0	43.61	AV	54	PASS
GFSK	Off	2483.5	-44.19	2.0	0	53.06	PEAK	74	PASS
	Off	2483.5	-53.35	2.0	0	43.91	AV	54	PASS
	Off	2500.0	-42.91	2.0	0	54.35	PEAK	74	PASS
	Off	2500.0	-53.31	2.0	0	43.95	AV	54	PASS
	Off	2310.0	-43.00	2.0	0	54.26	PEAK	74	PASS
	Off	2310.0	-53.88	2.0	0	43.38	AV	54	PASS
	Off	2390.0	-43.44	2.0	0	53.82	PEAK	74	PASS
(45.050)	Off	2390.0	-53.66	2.0	0	43.60	AV	54	PASS
π/4DQPSK	Off	2483.5	-43.62	2.0	0	53.64	PEAK	74	PASS
	Off	2483.5	-53.36	2.0	0	43.89	AV	54	PASS
	Off	2500.0	-41.67	2.0	0	55.59	PEAK	74	PASS
	Off	2500.0	-53.45	2.0	0	43.81	AV	54	PASS
	Off	2310.0	-43.99	2.0	0	53.27	PEAK	74	PASS
	Off	2310.0	-53.98	2.0	0	43.28	AV	54	PASS
	Off	2390.0	-44.18	2.0	0	53.08	PEAK	74	PASS
	Off	2390.0	-53.81	2.0	0	43.45	AV	54	PASS
8DPSK	Off	2483.5	-42.71	2.0	0	54.54	PEAK	74	PASS
	Off	2483.5	-53.30	2.0	0	43.96	AV	54	PASS
	Off	2500.0	-44.14	2.0	0	53.11	PEAK	74	PASS
	Off	2500.0	-53.39	2.0	0	43.87	AV	54	PASS

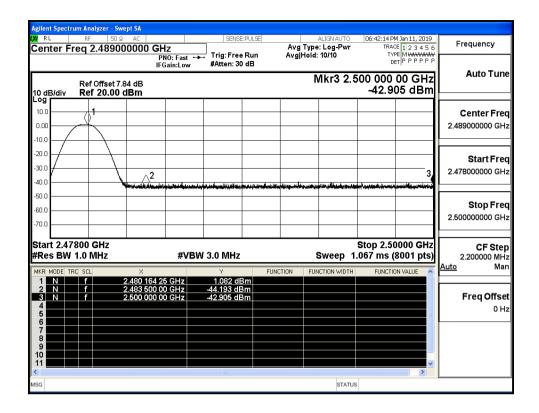




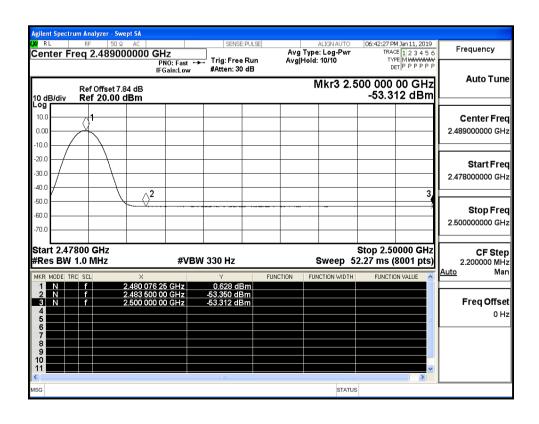
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



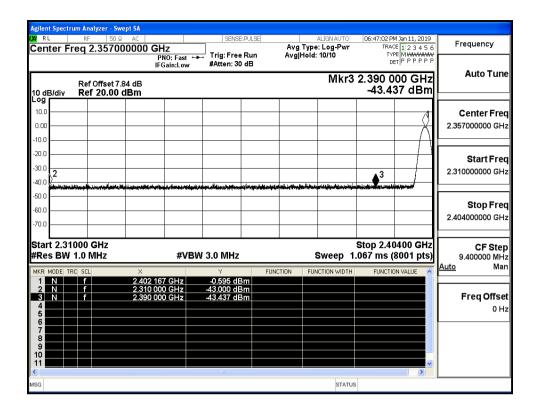
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



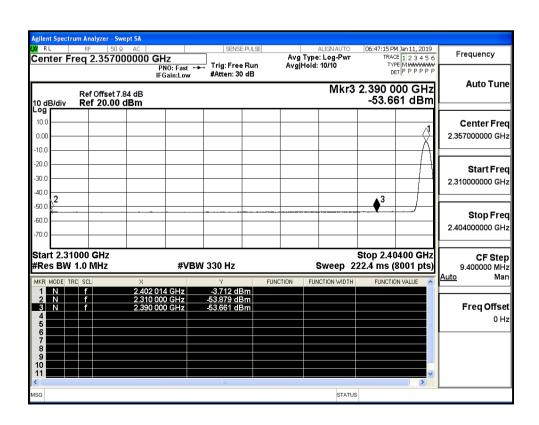
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



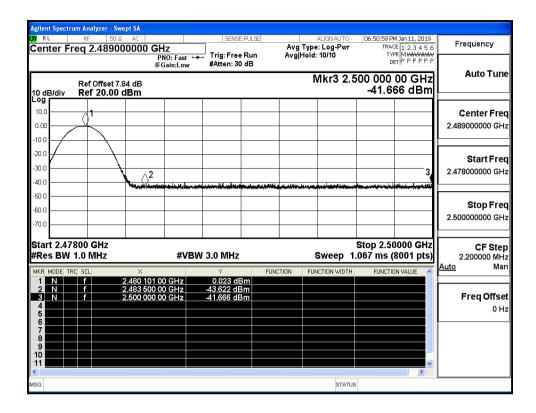
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



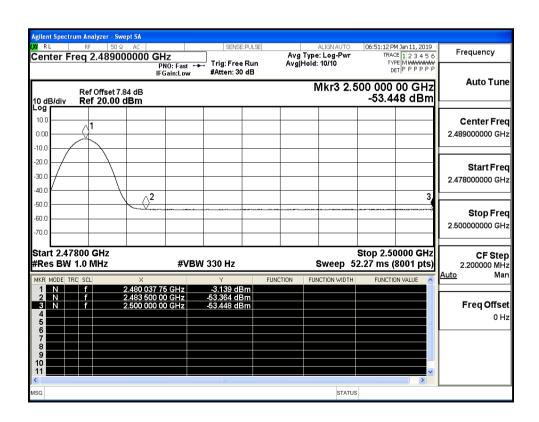
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



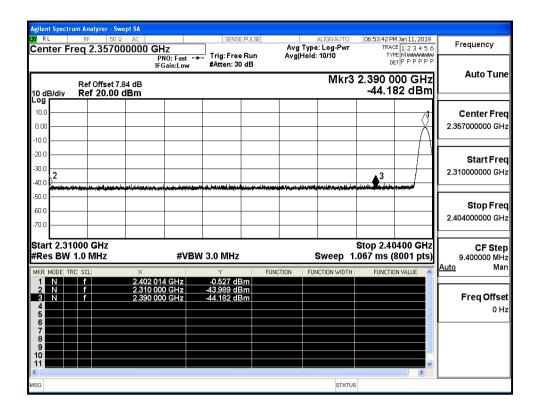
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



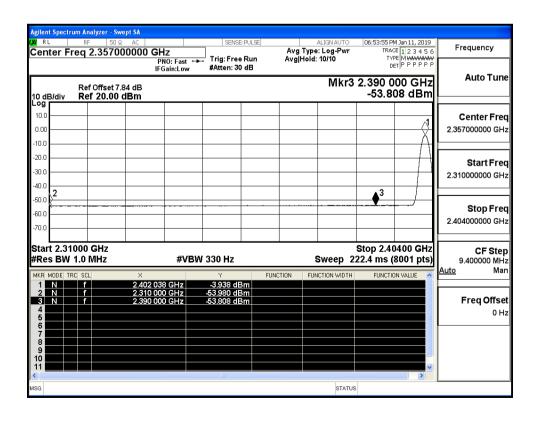
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



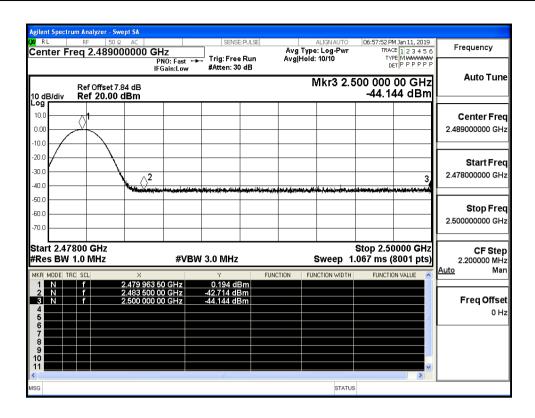
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



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)

