Appendix A

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

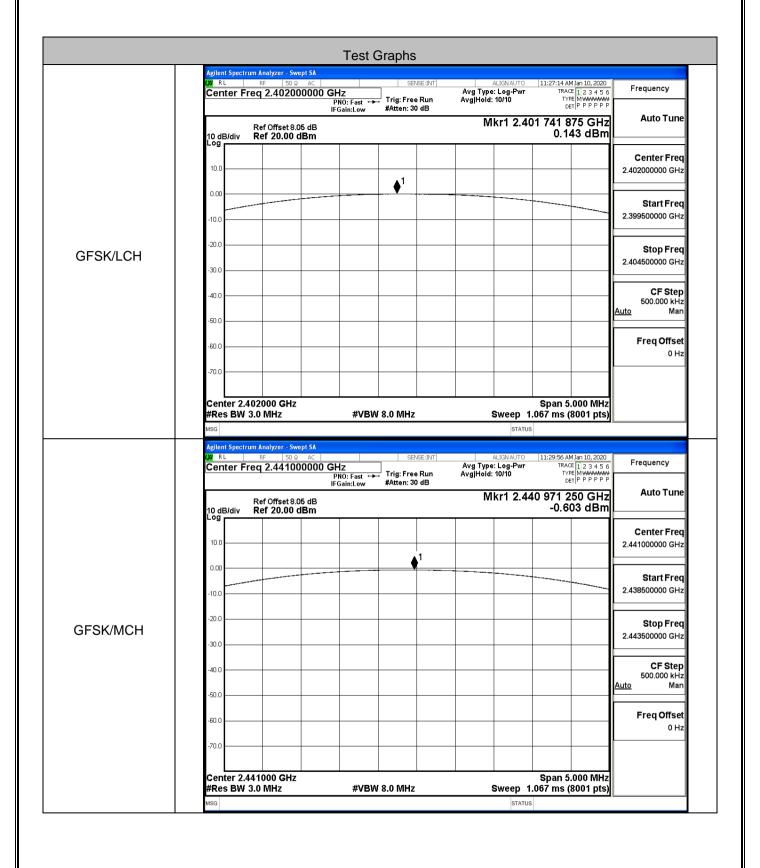
Product Name: Adak BT Speaker IX7 Trade Mark: Gemline Test Model: 100500-001B

Environmental Conditions

-	
Temperature:	25 ° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	Qu Xin
Supervised by:	Tom.Liu

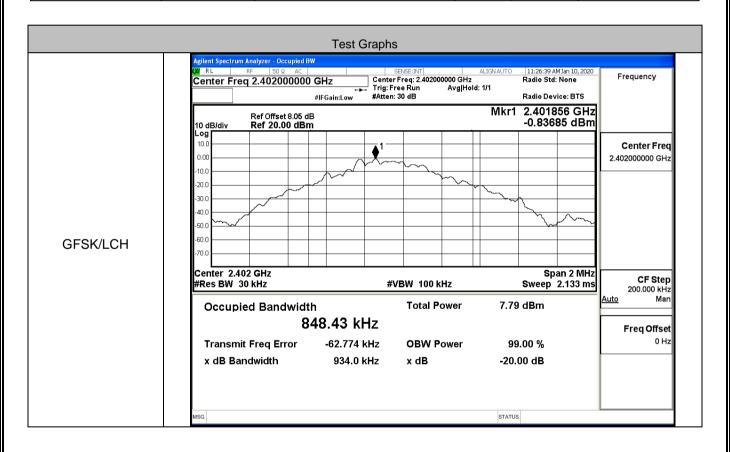
A.1 Maxmum Conducted Peak Output Power

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH 0.143		30	PASS
GFSK	MCH	-0.603	30	PASS
	НСН	-0.589	30	PASS
	LCH	3.124	21	PASS
π/4DQPSK	MCH	2.585	21	PASS
	НСН	2.715	21	PASS
	LCH	-0.594	21	PASS
8DPSK	MCH	-1.266	21	PASS
	НСН	-1.635	21	PASS



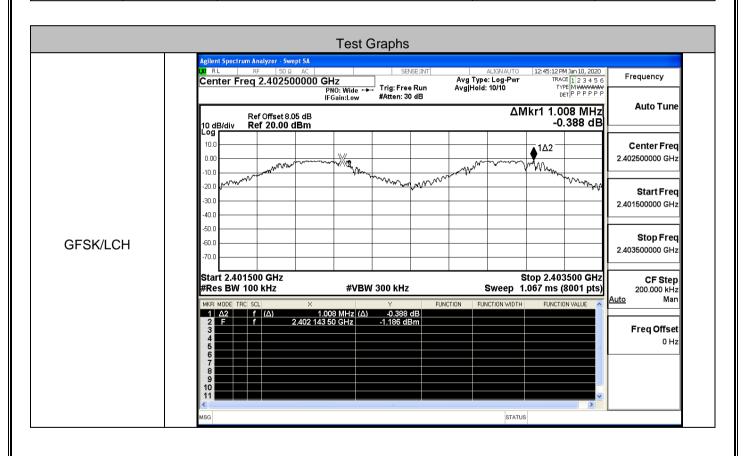
A.2 20dB Bandwidth

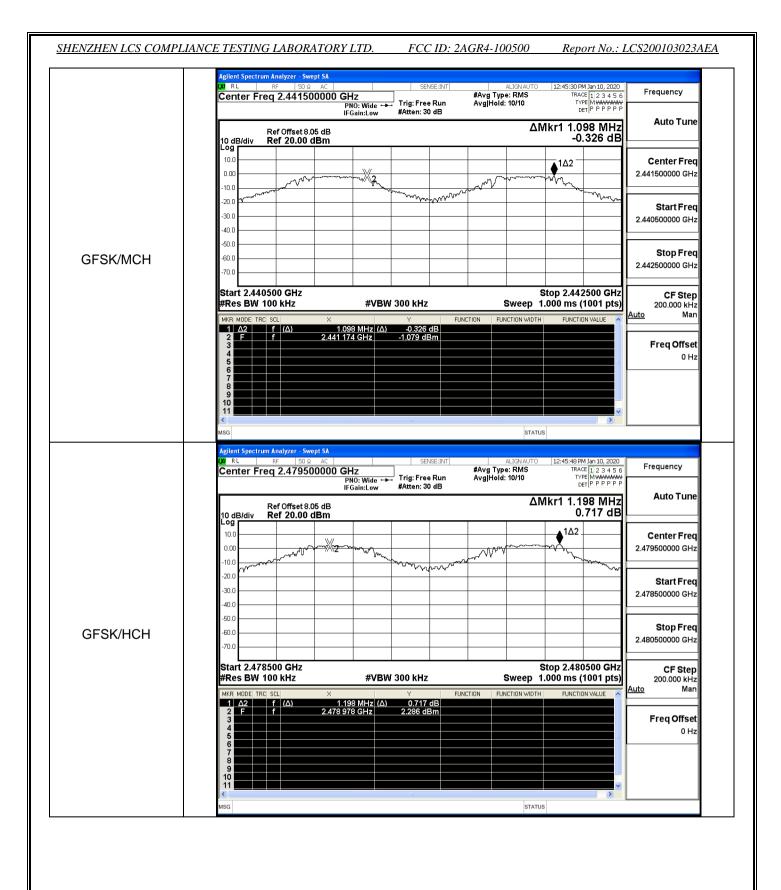
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	0.9340	Not Specified	PASS
GFSK	MCH	0.9370	Not Specified	PASS
	HCH	0.9352	Not Specified	PASS
	LCH	1.282	Not Specified	PASS
π/4DQPSK	MCH	1.282	Not Specified	PASS
	НСН	1.285	Not Specified	PASS
	LCH	1.291	Not Specified	PASS
8DPSK	MCH	1.294	Not Specified	PASS
	НСН	1.294	Not Specified	PASS

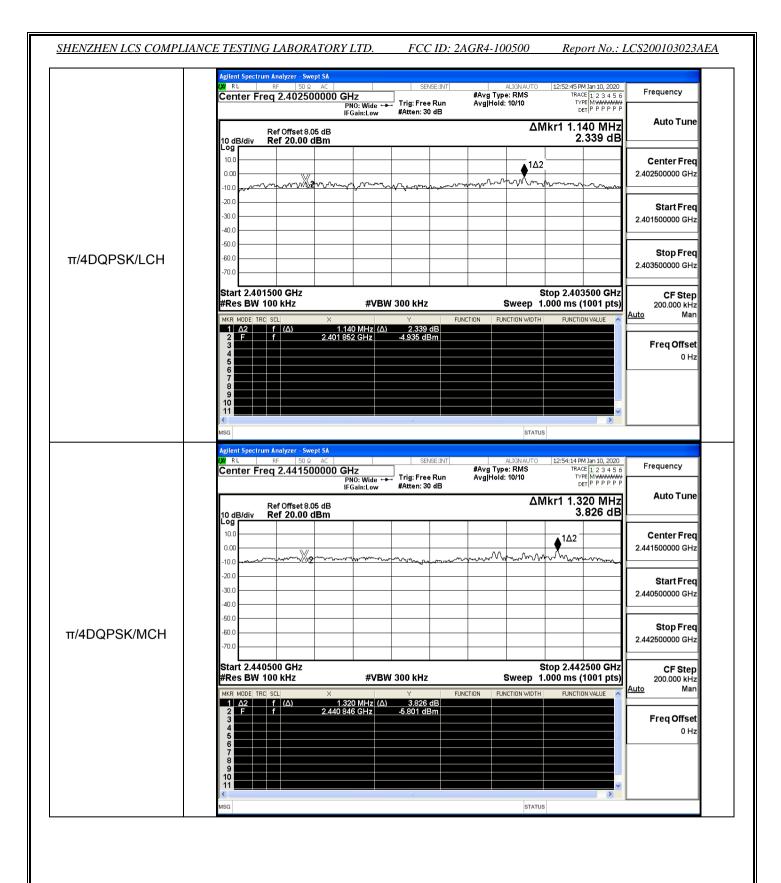


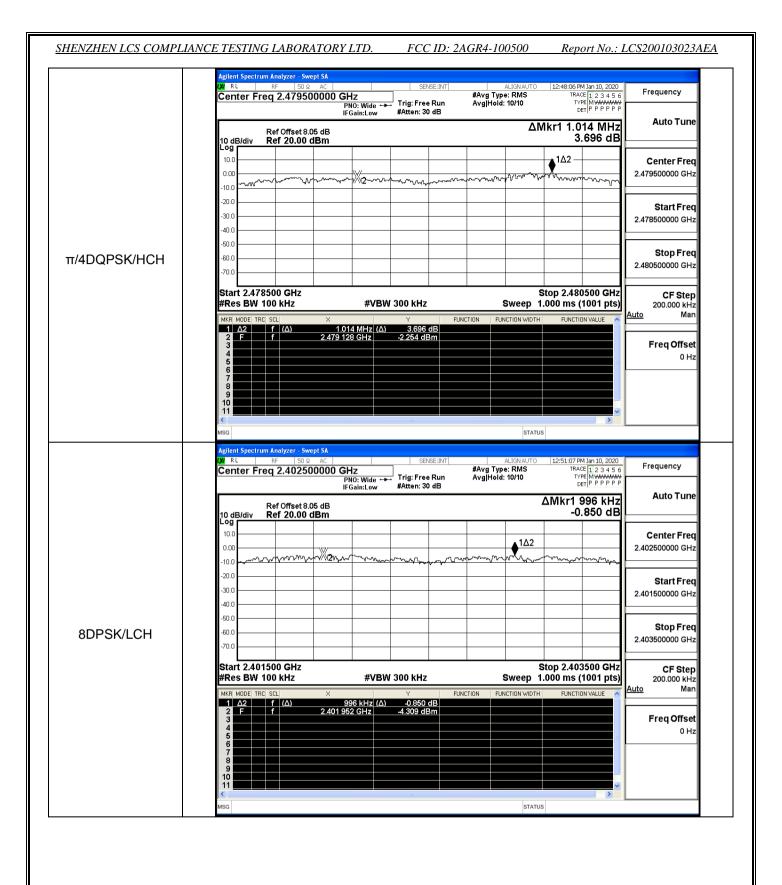
A.3 Carrier Frequency Separation

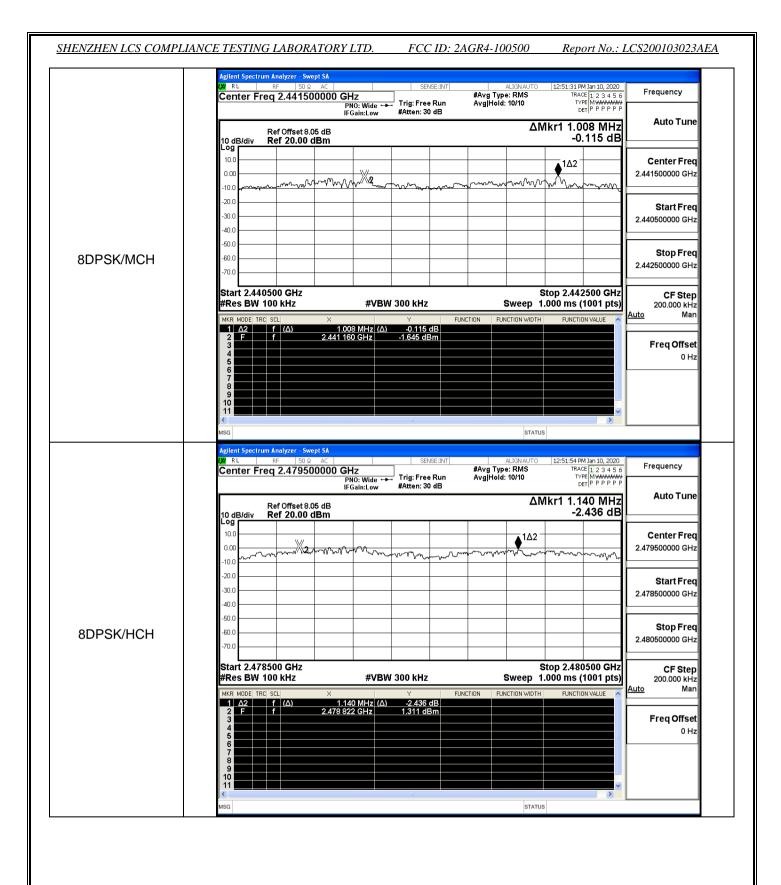
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	1.008	0.934	PASS
GFSK	MCH	1.098	0.937	PASS
	HCH	1.198	0.935	PASS
	LCH	1.140	0.857	PASS
π/4DQPSK	MCH	1.320	0.857	PASS
	HCH	1.014	0.857	PASS
	LCH	0.996	0.863	PASS
8DPSK	MCH	1.008	0.863	PASS
	HCH	1.140	0.863	PASS





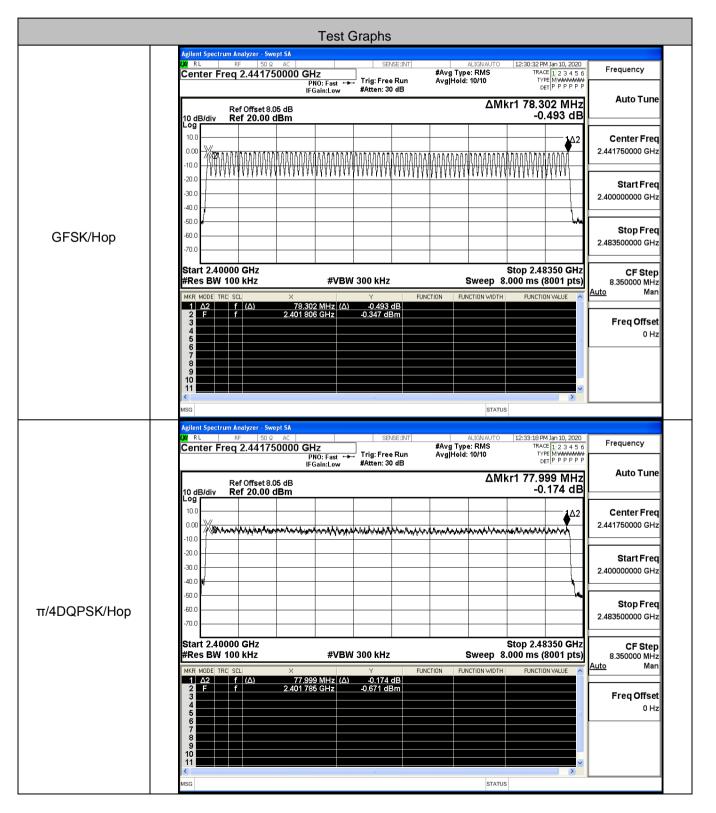






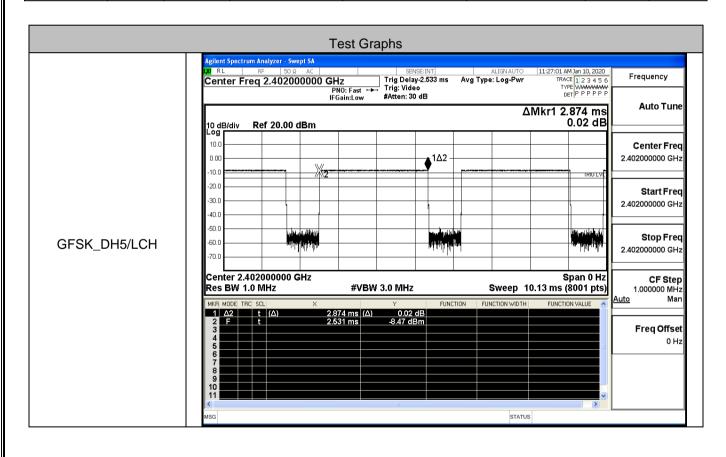
A.4 Hopping Channel Number

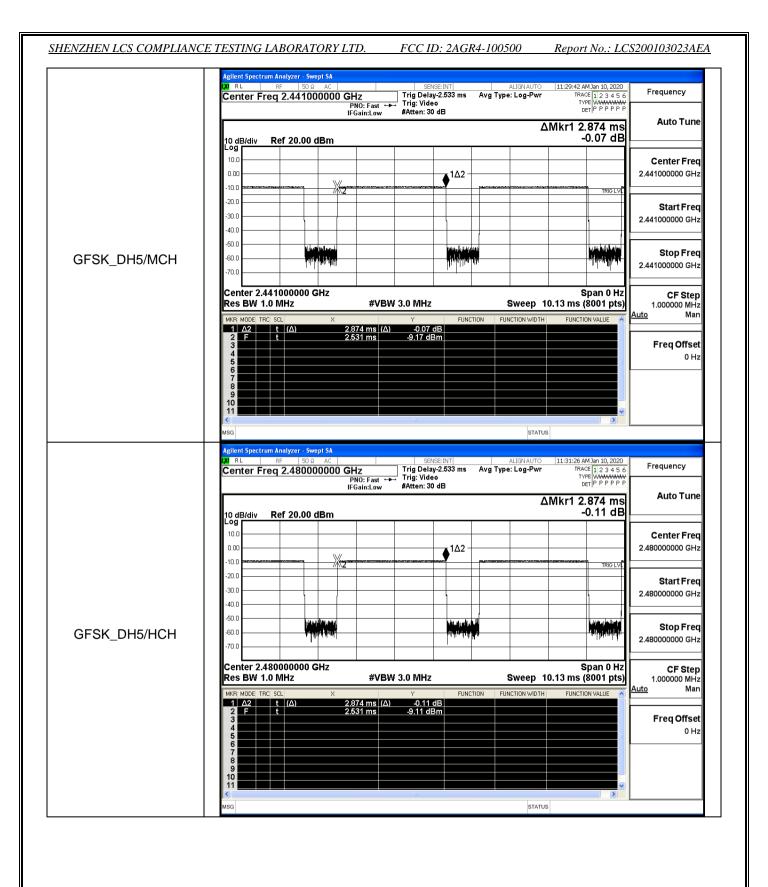
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS
8DPSK	Нор	79	>=15	PASS

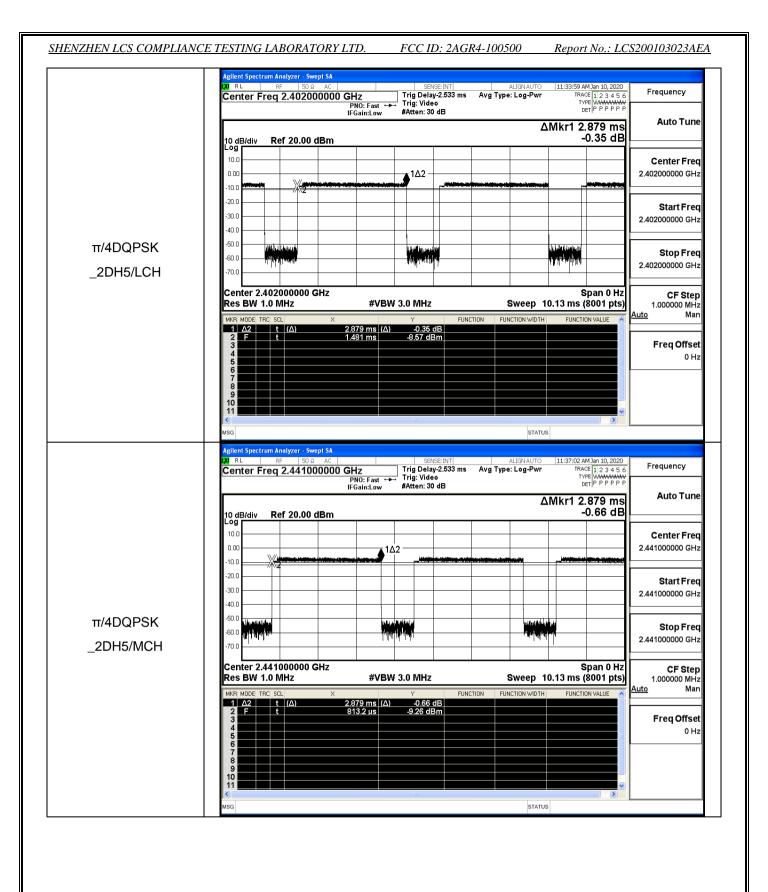


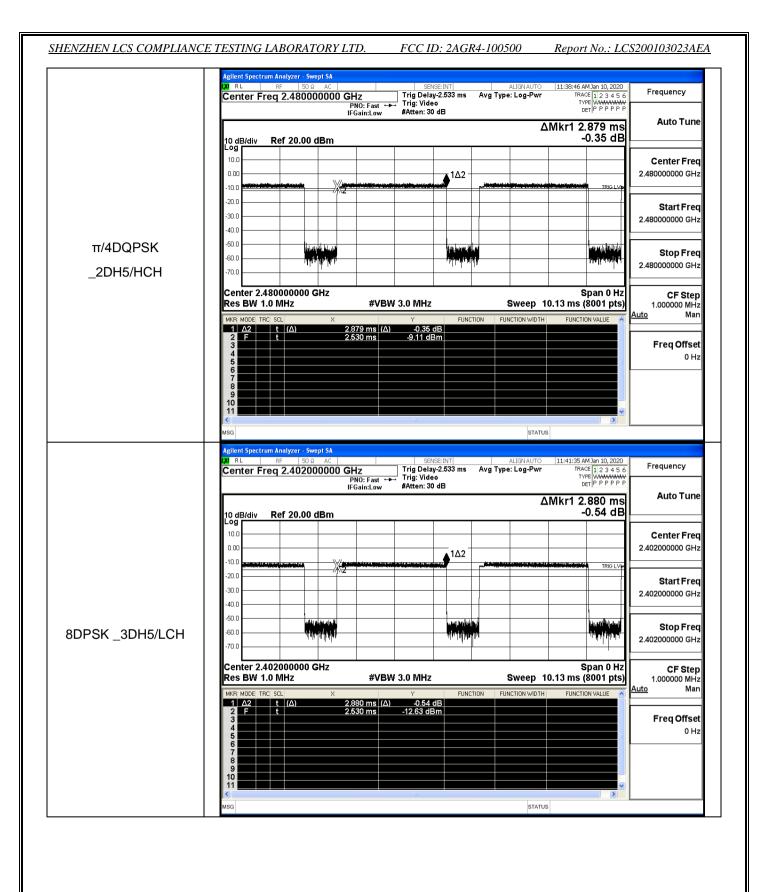
A.5 Dwell Time

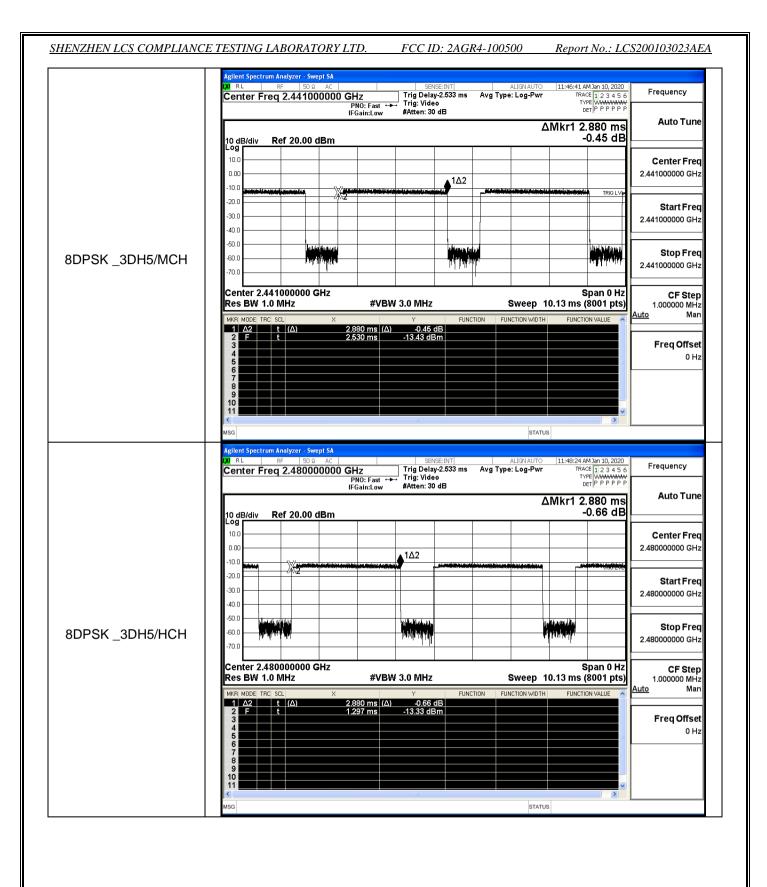
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
	DH5	LCH	2.87	106.7	0.306	0.4	PASS
GFSK	DH5	MCH	2.87	106.7	0.306	0.4	PASS
	DH5	НСН	2.87	106.7	0.306	0.4	PASS
	2DH5	LCH	2.87	106.7	0.307	0.4	PASS
π/4DQPSK	2DH5	MCH	2.87	106.7	0.307	0.4	PASS
	2DH5	HCH	2.87	106.7	0.307	0.4	PASS
	3DH5	LCH	2.87	106.7	0.307	0.4	PASS
8DPSK	3DH5	MCH	2.87	106.7	0.307	0.4	PASS
	3DH5	НСН	2.87	106.7	0.307	0.4	PASS





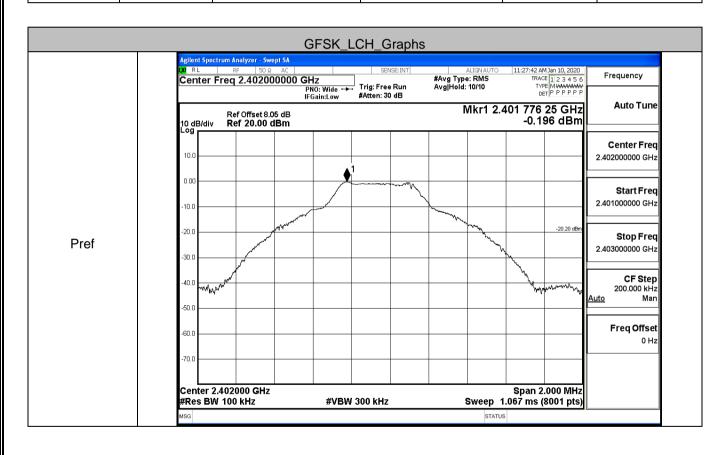






A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	-0.196	-36.332	-20.196	PASS
GFSK	MCH	-1.218	-37.980	-21.218	PASS
	HCH	-0.946	-36.986	-20.946	PASS
	LCH	-0.427	-37.636	-20.427	PASS
π/4DQPSK	MCH	-1.643	-36.735	-21.643	PASS
	НСН	-1.067	-37.101	-21.067	PASS
	LCH	-4.417	-37.640	-24.417	PASS
8DPSK	MCH	-5.142	-38.144	-25.142	PASS
	НСН	-5.282	-38.049	-25.282	PASS

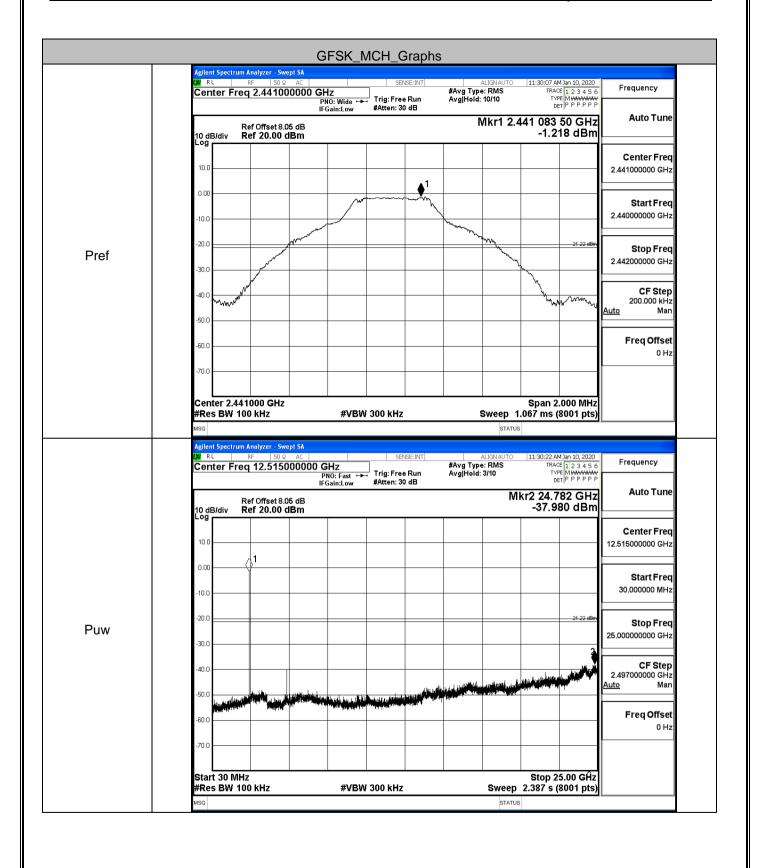


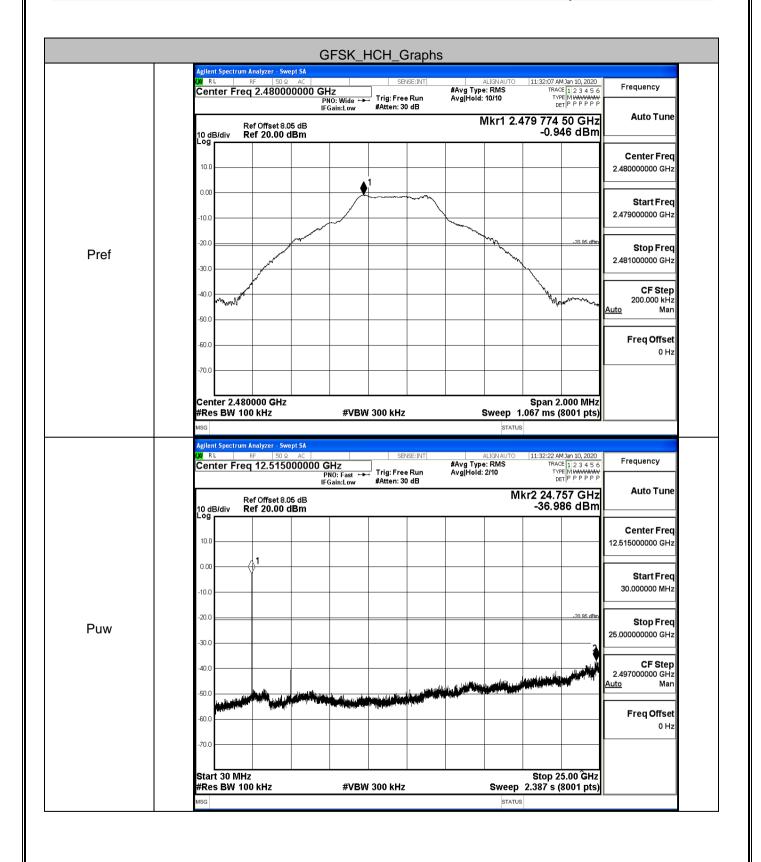
#VBW 300 kHz

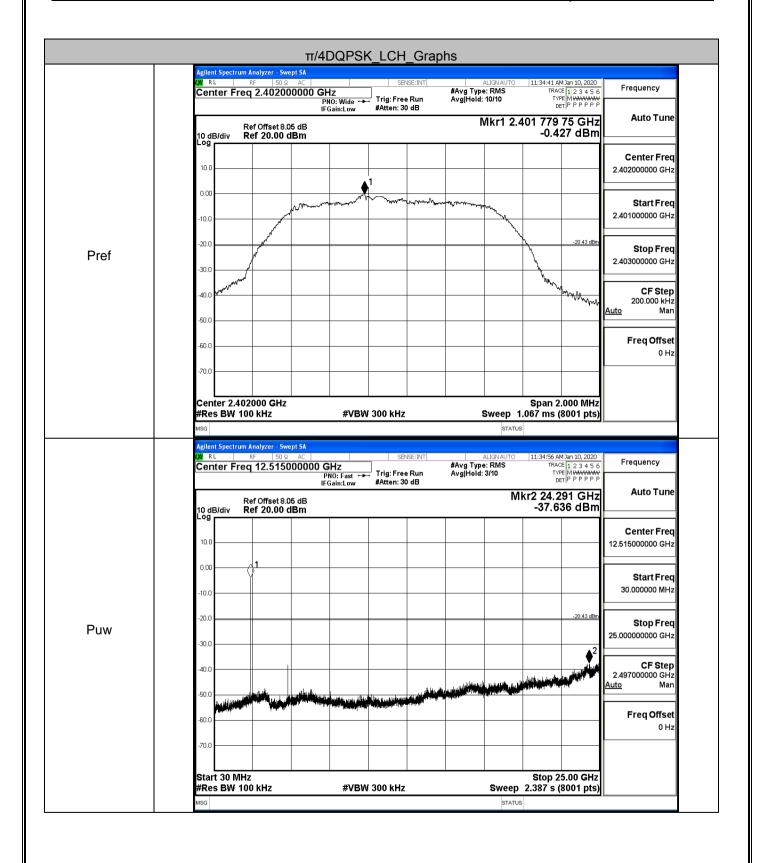
Stop 25.00 GHz Sweep 2.387 s (8001 pts)

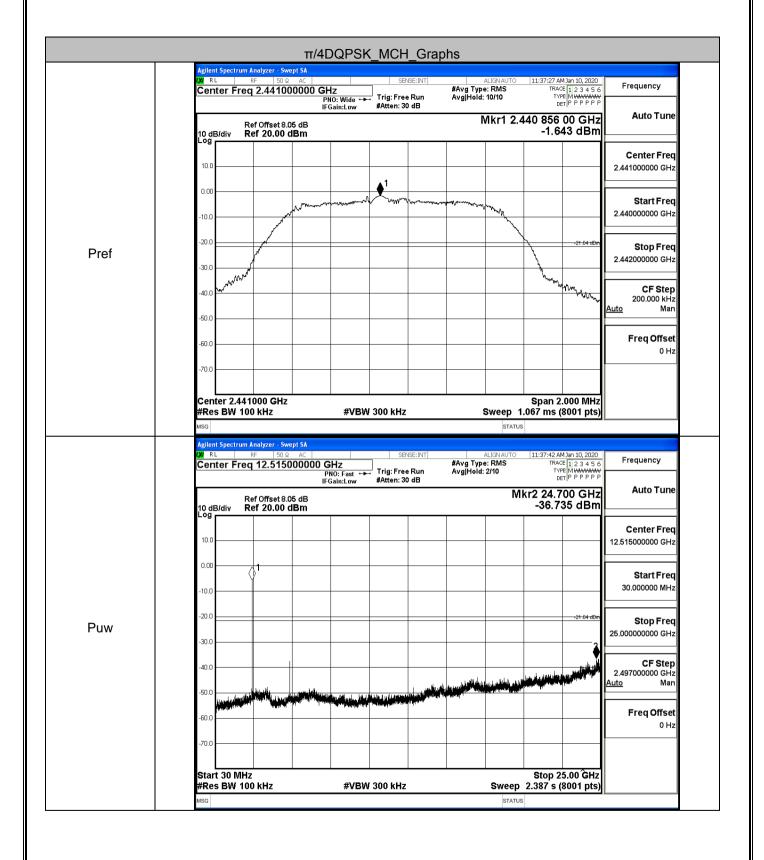
STATUS

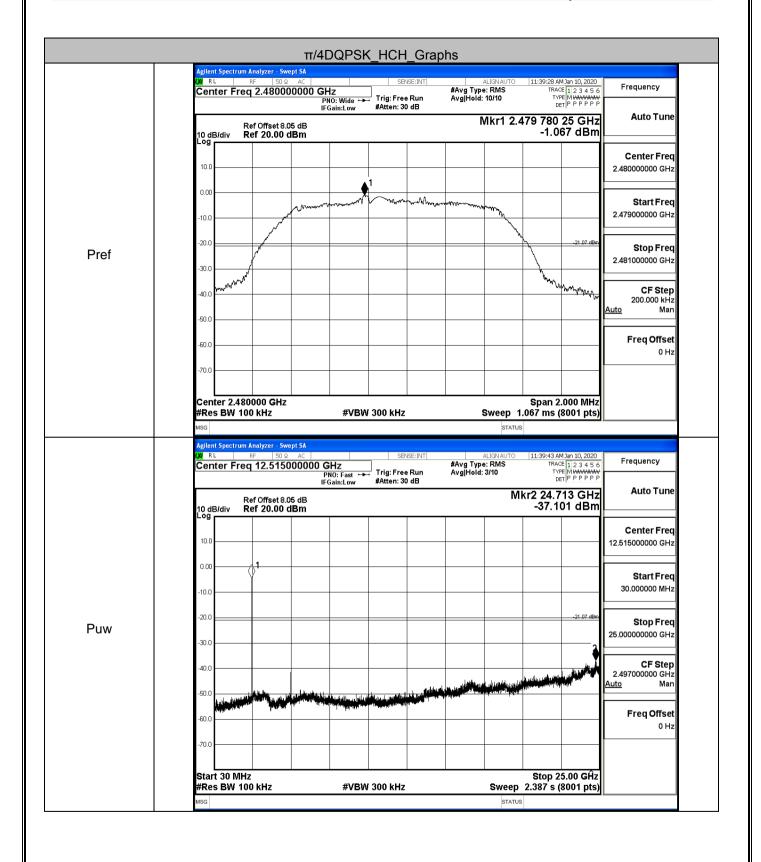
Start 30 MHz #Res BW 100 kHz

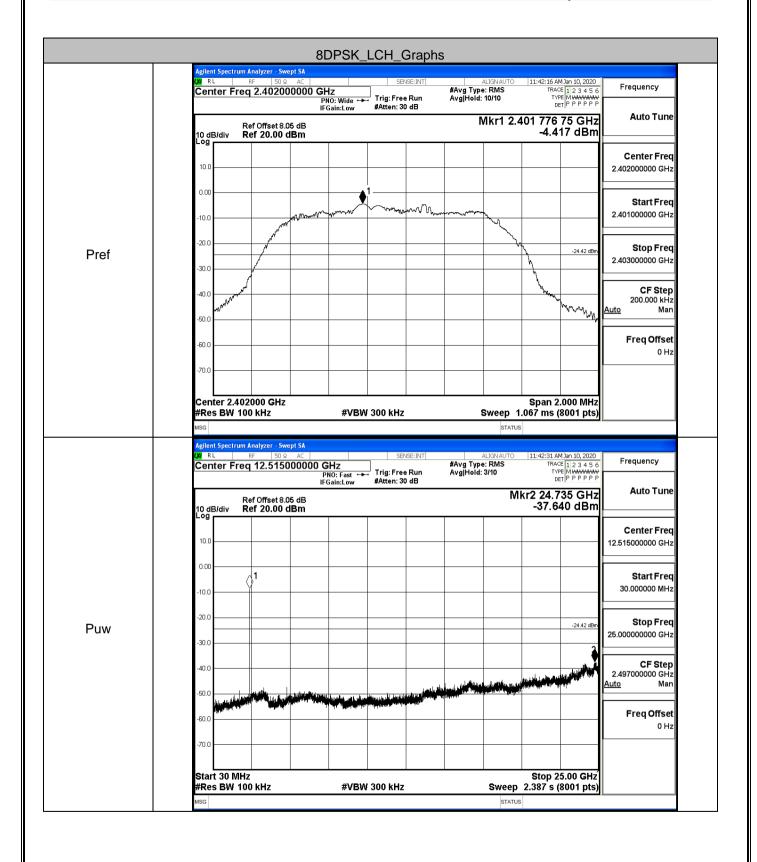


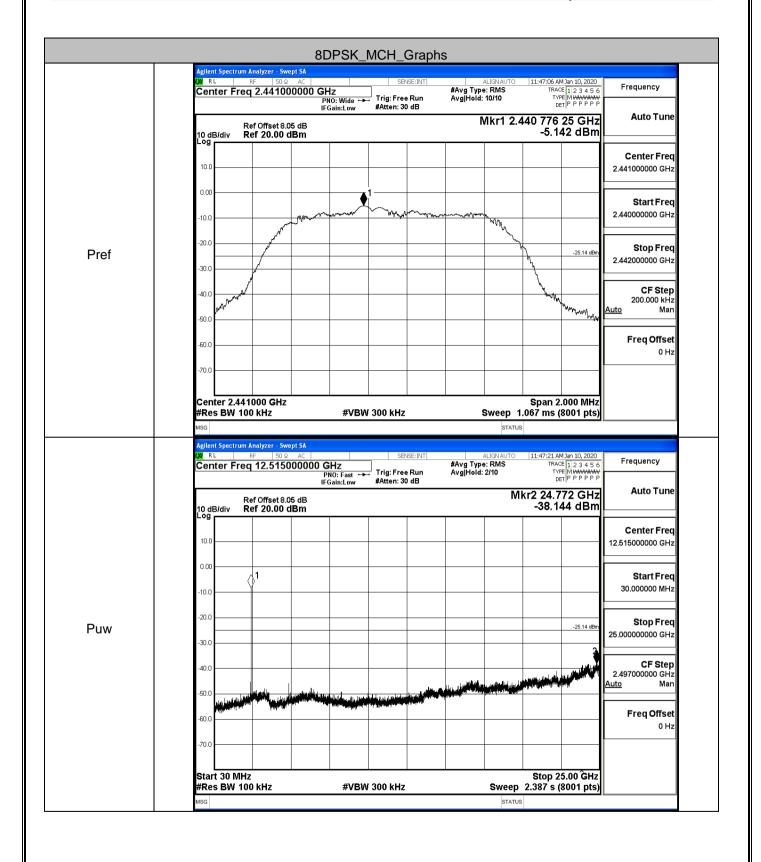


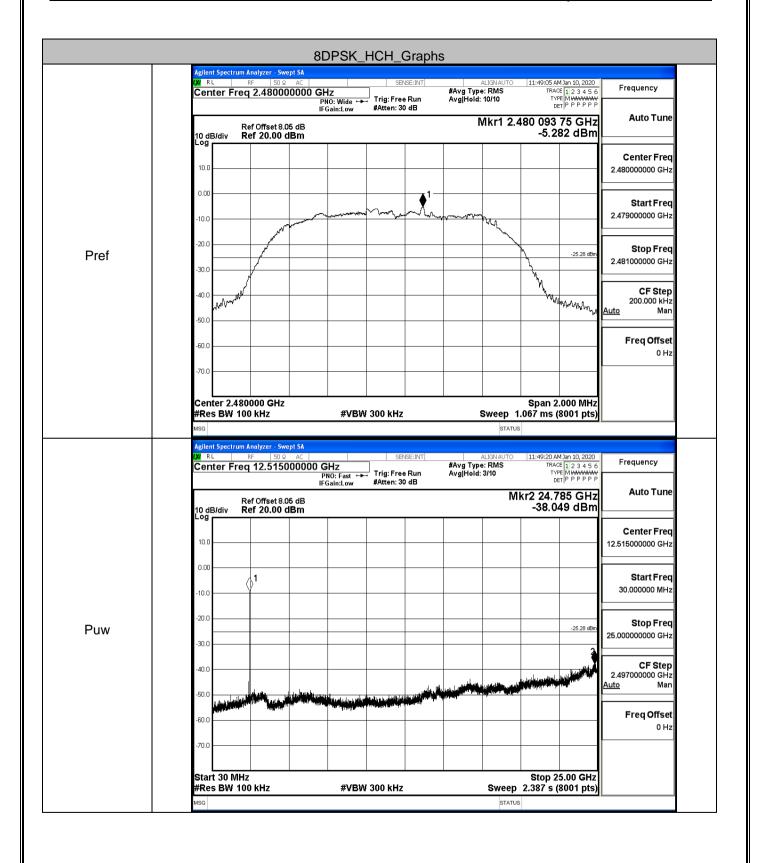






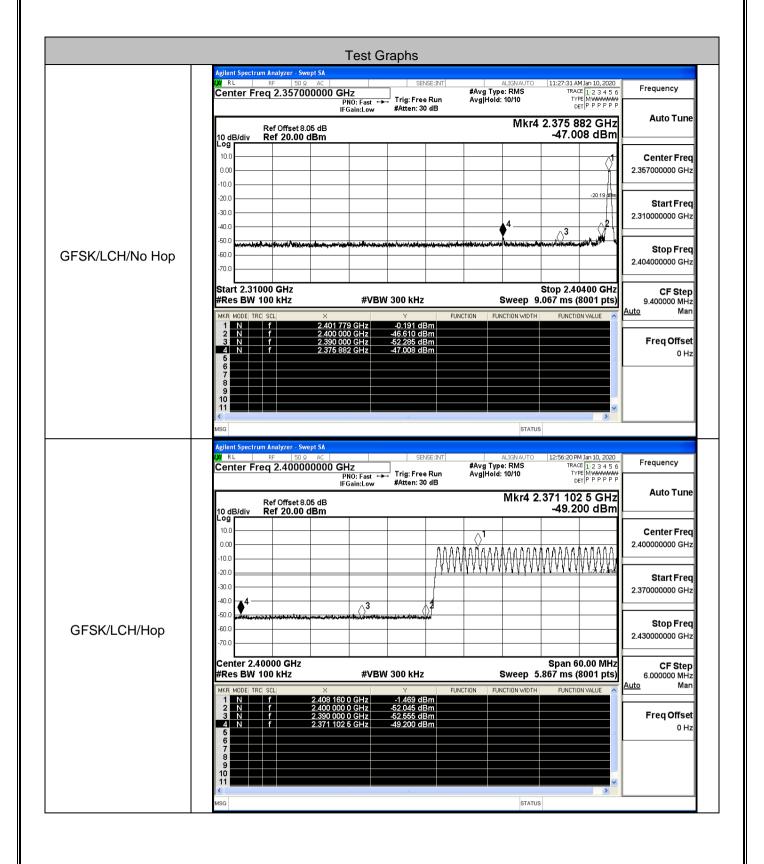


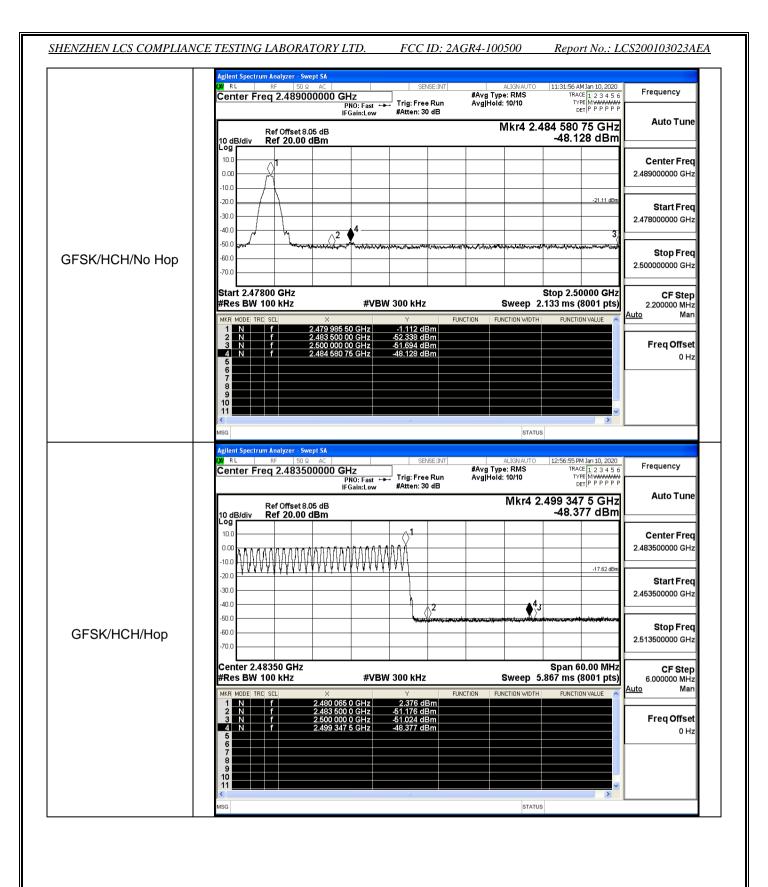


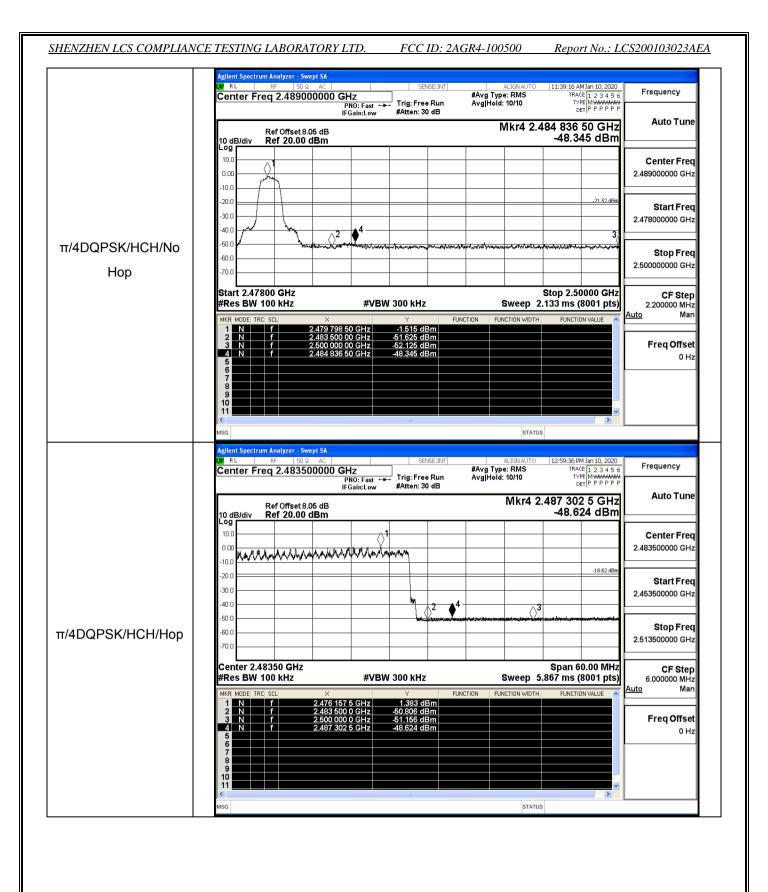


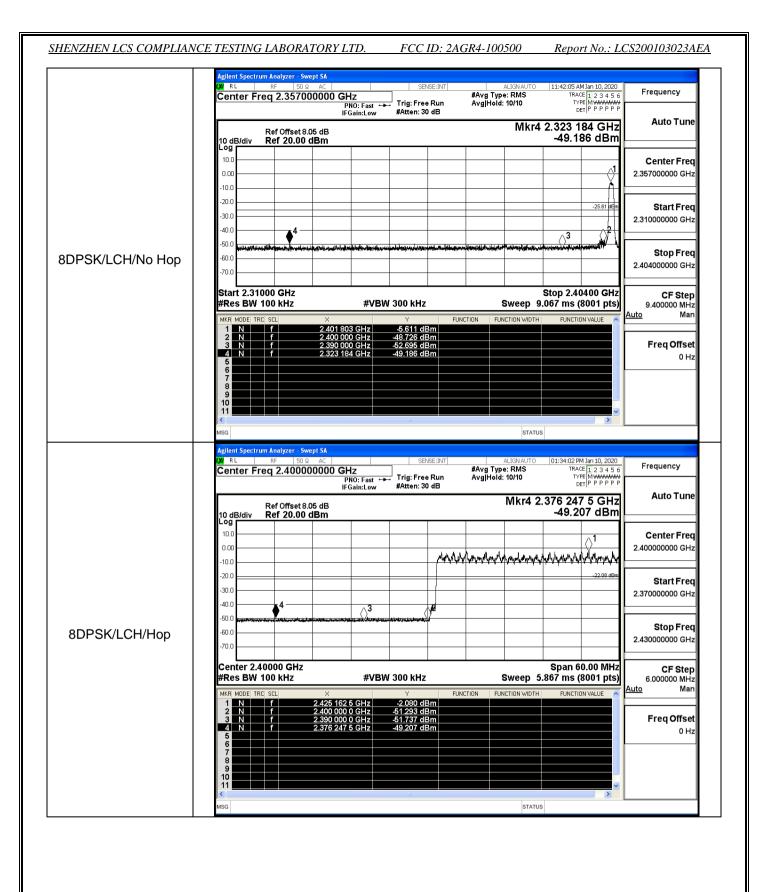
A.7 Band-edge for RF Conducted Emissions

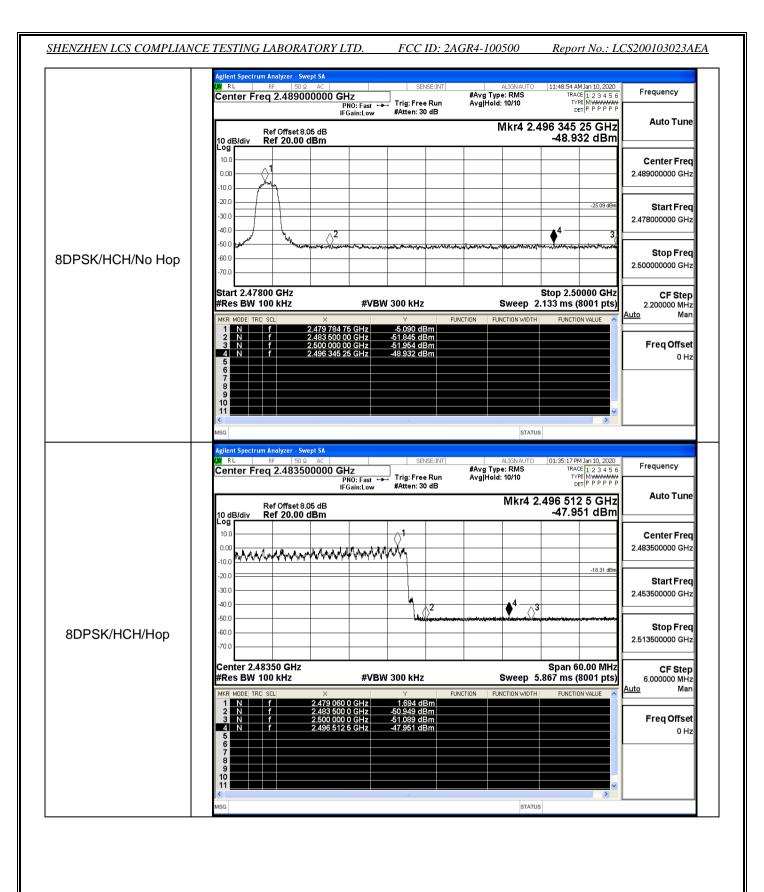
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict			
		0.400	-0.191	Off	-47.008	-20.19	PASS			
0.5014	LCH	2402	-1.469	On	-49.200	-21.47	PASS			
GFSK	нсн			-1.112	Off	-48.128	-21.11	PASS		
		2480	2.376	On	-48.377	-17.62	PASS			
	LCH					-0.349	Off	-48.569	-20.35	PASS
		2402	-2.113	On	-48.569	-22.11	PASS			
π/4DQPSK	нсн		-1.515	Off	-48.345	-21.52	PASS			
		ICH 2480	1.383	On	-48.624	-18.62	PASS			
		2402	-5.611	Off	-49.186	-25.61	PASS			
	LCH		-2.080	On	-49.207	-22.08	PASS			
8DPSK			-5.090	Off	-48.932	-25.09	PASS			
	HCH	2480	1.694	On	-47.951	-18.31	PASS			





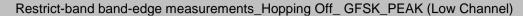


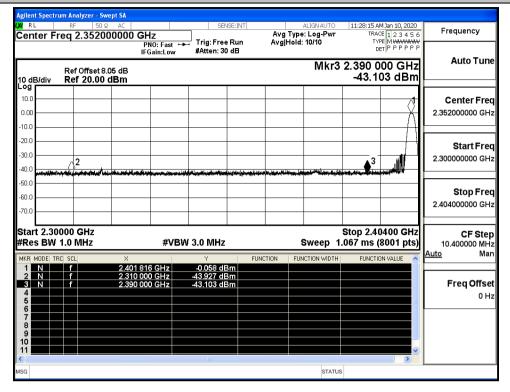




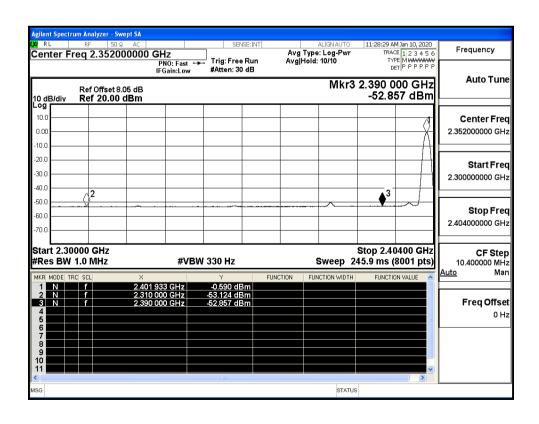
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-43.93	0.5	0	51.33	PEAK	74	PASS
	Off	2310.0	-53.12	0.5	0	42.13	AV	54	PASS
	Off	2390.0	-43.10	0.5	0	52.15	PEAK	74	PASS
	Off	2390.0	-52.86	0.5	0	42.40	AV	54	PASS
GFSK	Off	2483.5	-41.61	0.5	0	53.64	PEAK	74	PASS
	Off	2483.5	-52.15	0.5	0	43.11	AV	54	PASS
	Off	2500.0	-41.31	0.5	0	53.95	PEAK	74	PASS
	Off	2500.0	-52.30	0.5	0	42.96	AV	54	PASS
	Off	2310.0	-44.01	0.5	0	51.25	PEAK	74	PASS
	Off	2310.0	-53.33	0.5	0	41.93	AV	54	PASS
	Off	2390.0	-43.19	0.5	0	52.07	PEAK	74	PASS
	Off	2390.0	-52.90	0.5	0	42.36	AV	54	PASS
π/4DQPSK	Off	2483.5	-41.81	0.5	0	53.45	PEAK	74	PASS
	Off	2483.5	-52.05	0.5	0	43.21	AV	54	PASS
	Off	2500.0	-41.30	0.5	0	53.96	PEAK	74	PASS
	Off	2500.0	-52.27	0.5	0	42.98	AV	54	PASS
	Off	2310.0	-43.13	0.5	0	52.13	PEAK	74	PASS
	Off	2310.0	-53.26	0.5	0	42.00	AV	54	PASS
	Off	2390.0	-42.82	0.5	0	52.44	PEAK	74	PASS
	Off	2390.0	-52.87	0.5	0	42.38	AV	54	PASS
8DPSK	Off	2483.5	-42.58	0.5	0	52.68	PEAK	74	PASS
	Off	2483.5	-52.30	0.5	0	42.96	AV	54	PASS
	Off	2500.0	-42.37	0.5	0	52.88	PEAK	74	PASS
	Off	2500.0	-52.18	0.5	0	43.07	AV	54	PASS

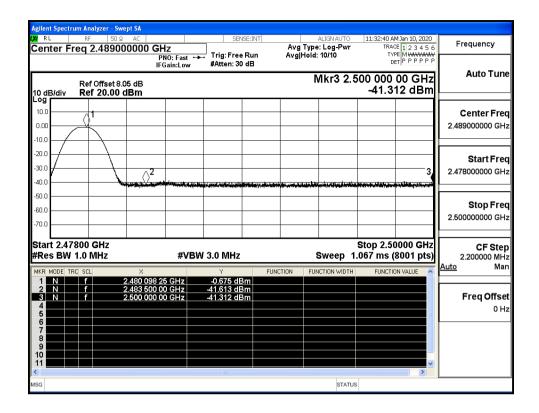




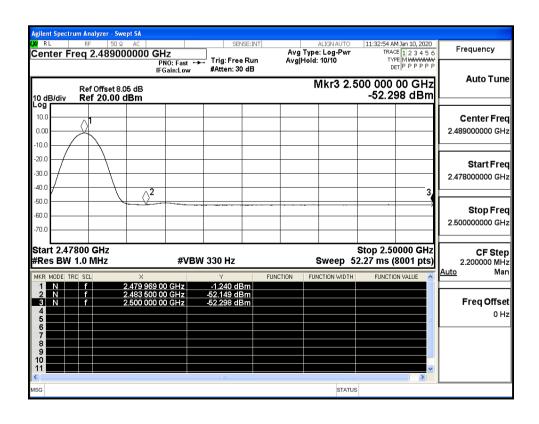
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



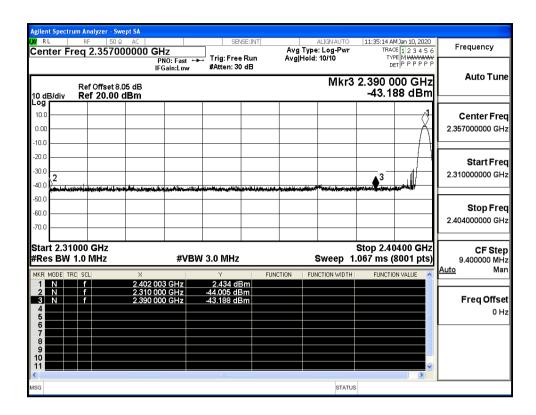
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



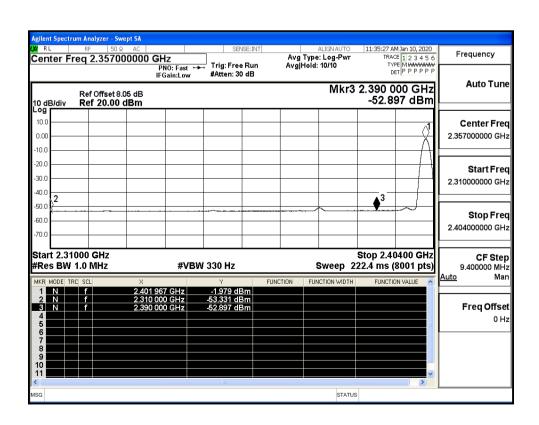
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



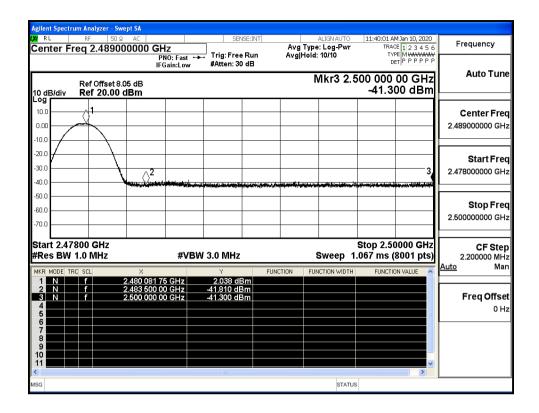
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



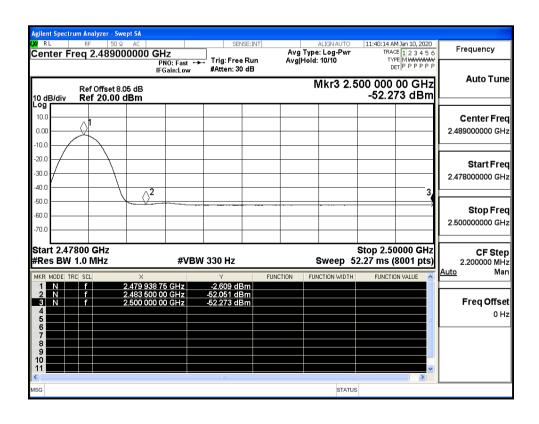
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



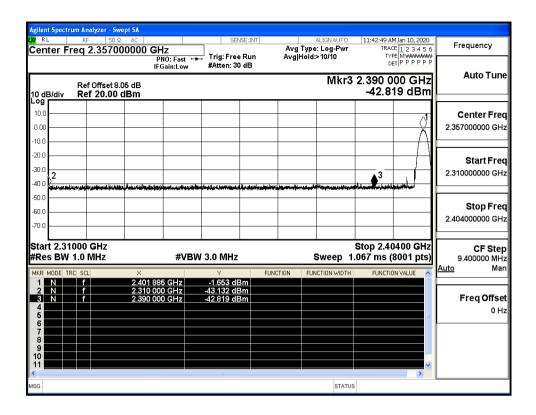
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



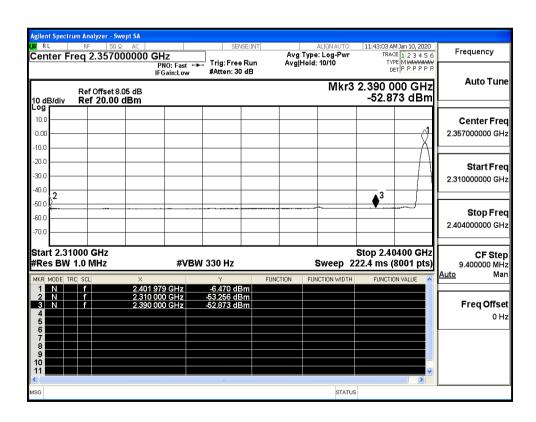
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



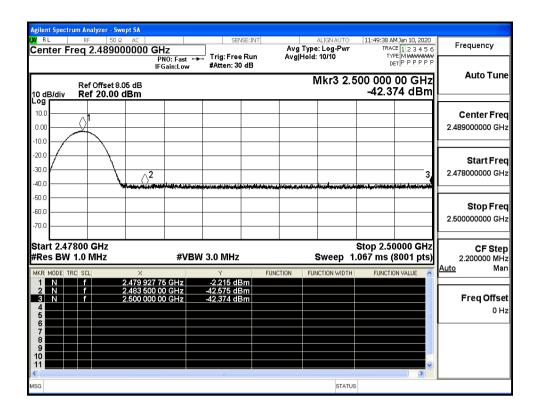
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



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)

