Appendix A

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

Product Name: BLUETOOTH SPEAKER

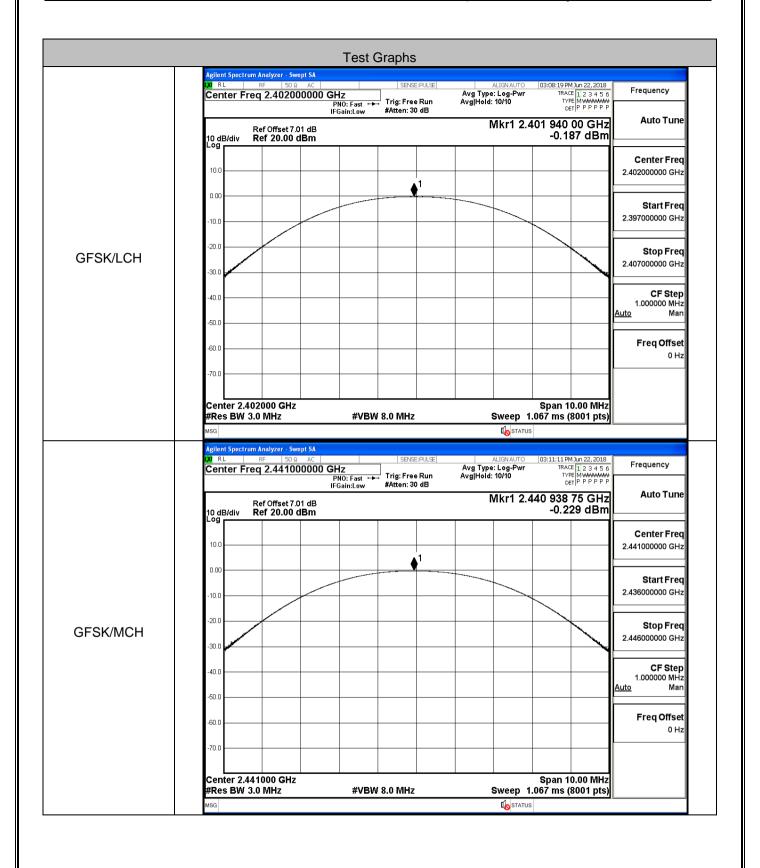
Trade Mark: N/A Test Model: F300

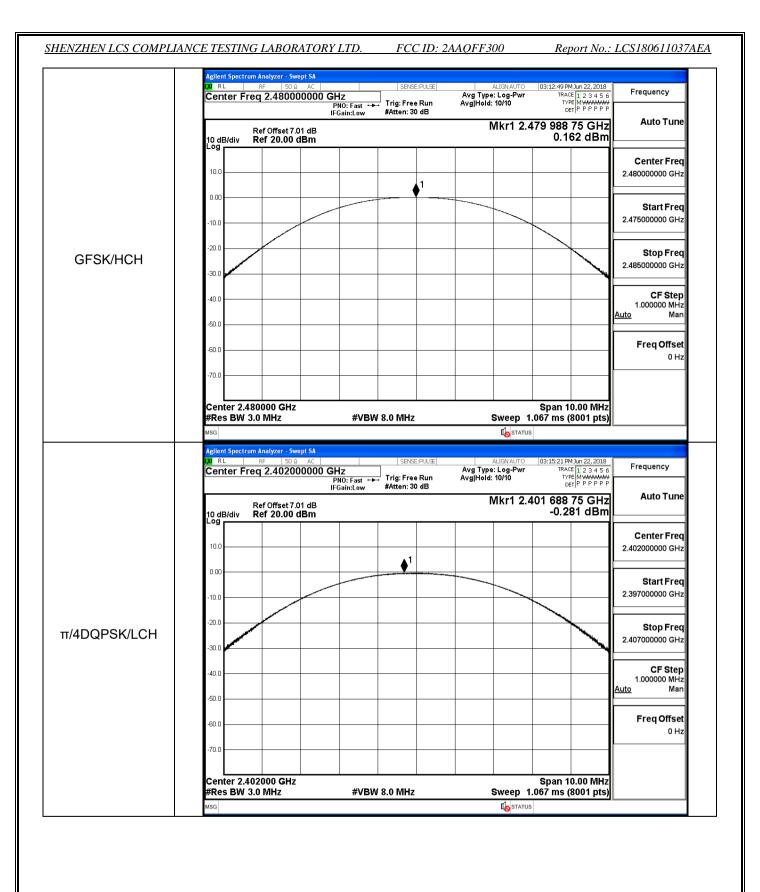
Environmental Conditions

Temperature:	23.2 ° C
Relative Humidity:	53.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Wlison Hong
Supervised by:	Jayden.Zhuo

A.1 Maximum Conducted Peak Output Power

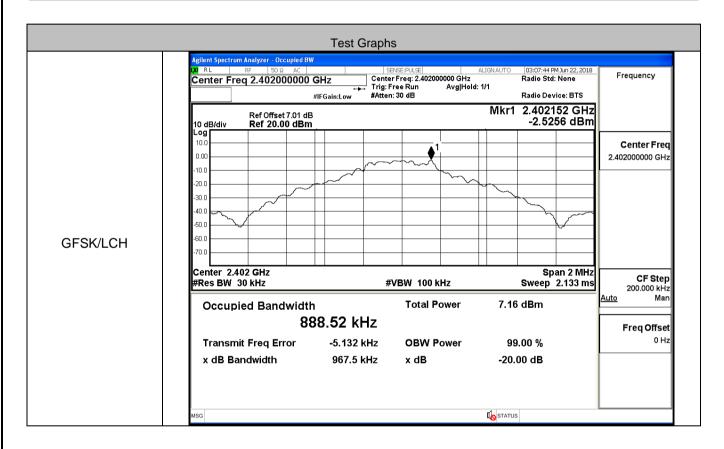
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	-0.187	30	PASS
GFSK	MCH	-0.229	30	PASS
	HCH	0.162	30	PASS
	LCH	-0.281	21	PASS
π/4DQPSK	/4DQPSK MCH -0.314		21	PASS
	HCH	-0.018	21	PASS

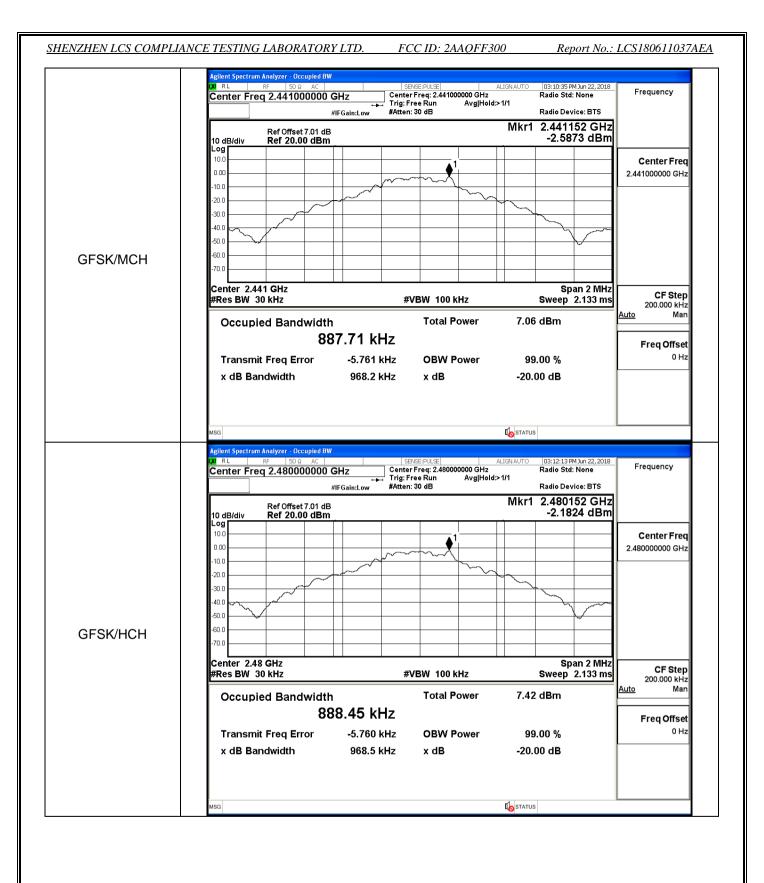


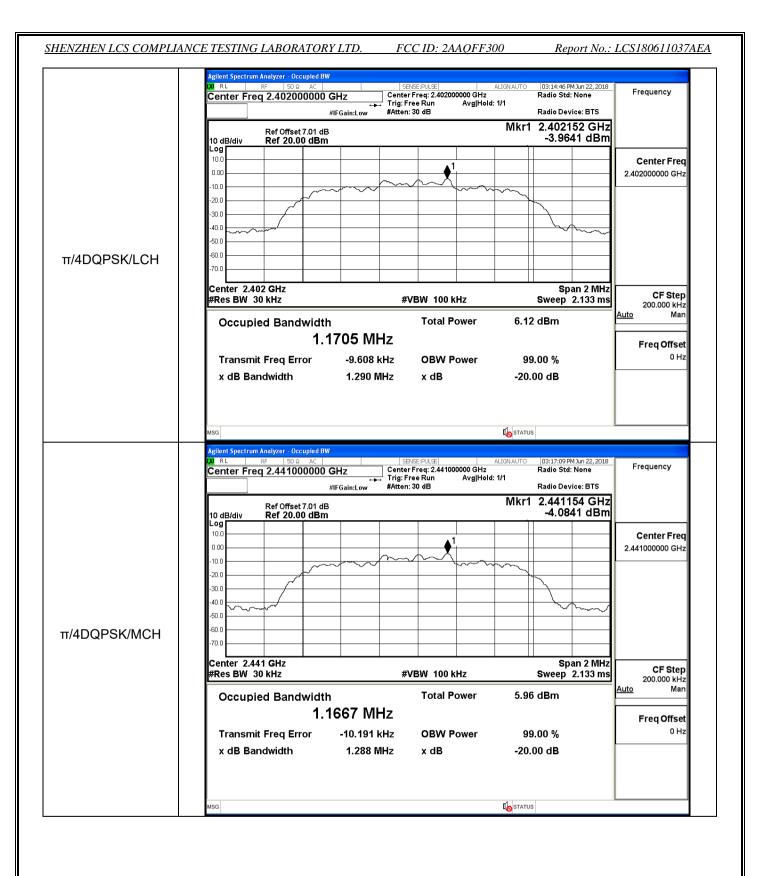


A.2 20dB Bandwidth

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	0.9675	Not Specified	PASS
GFSK	MCH	0.9682	Not Specified	PASS
	НСН	0.9685	Not Specified	PASS
	LCH	1.290	Not Specified	PASS
π/4DQPSK	MCH	1.288	Not Specified	PASS
	НСН	1.293	Not Specified	PASS

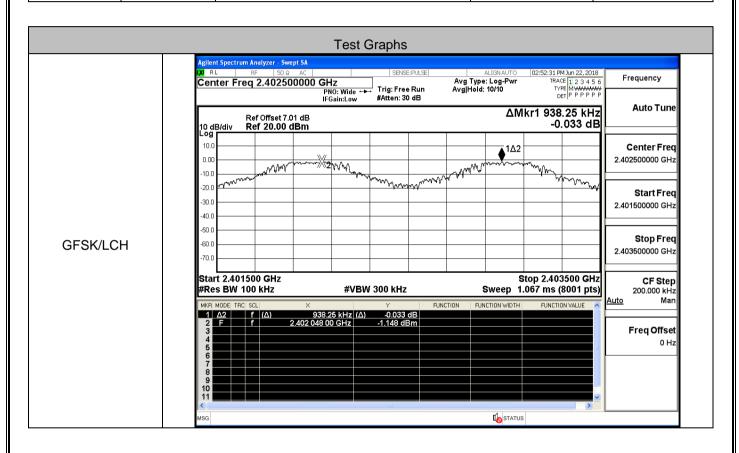


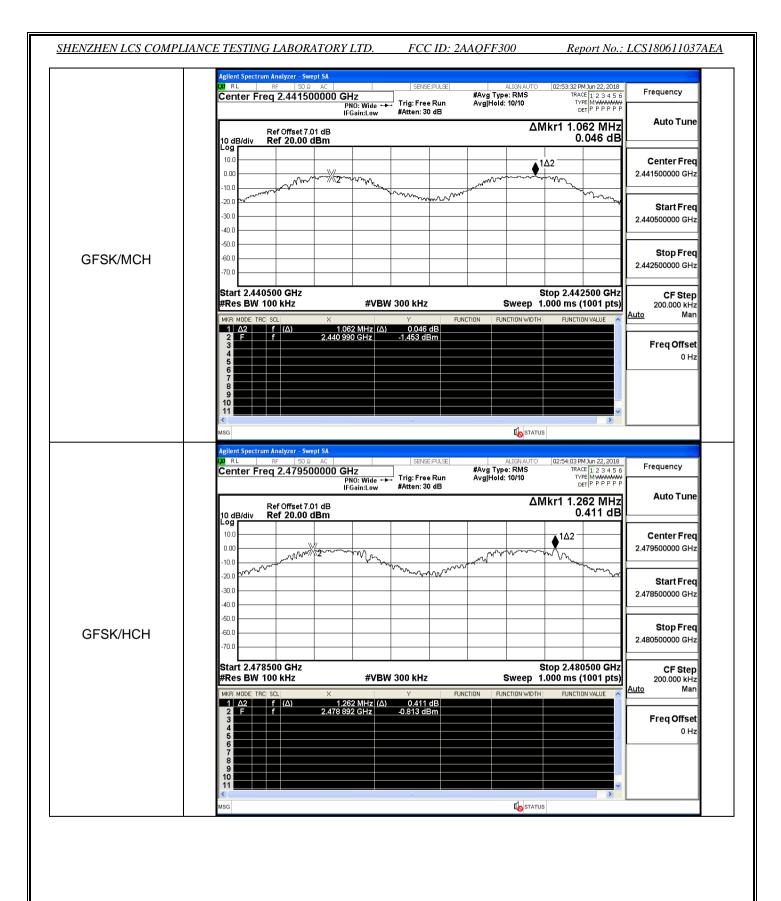


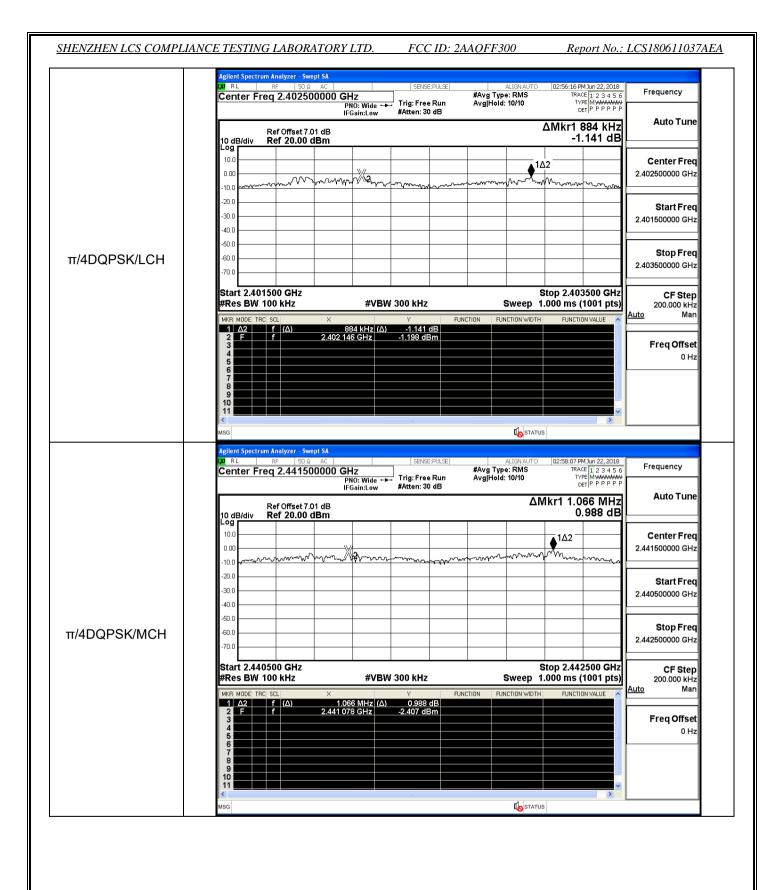


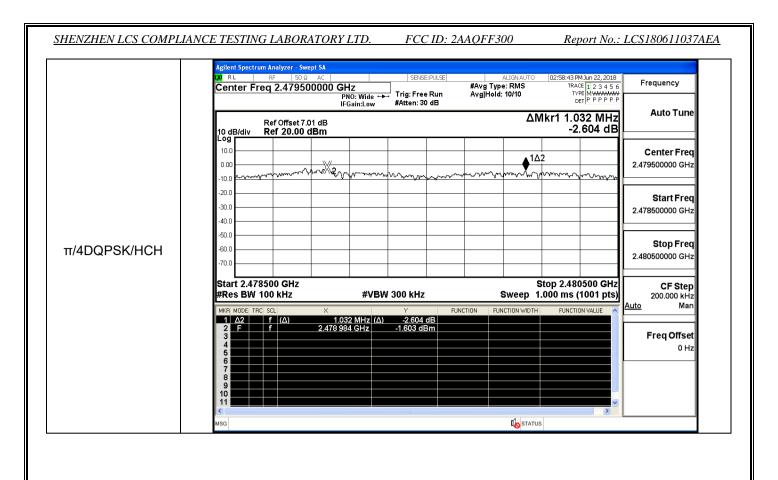
A.3 Carrier Frequency Separation

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	0.938	0.025	PASS
GFSK	MCH	1.062	0.025	PASS
	HCH	1.262	0.025	PASS
	LCH	0.884	0.025	PASS
π/4DQPSK	MCH	1.066	0.025	PASS
	HCH	1.032	0.025	PASS



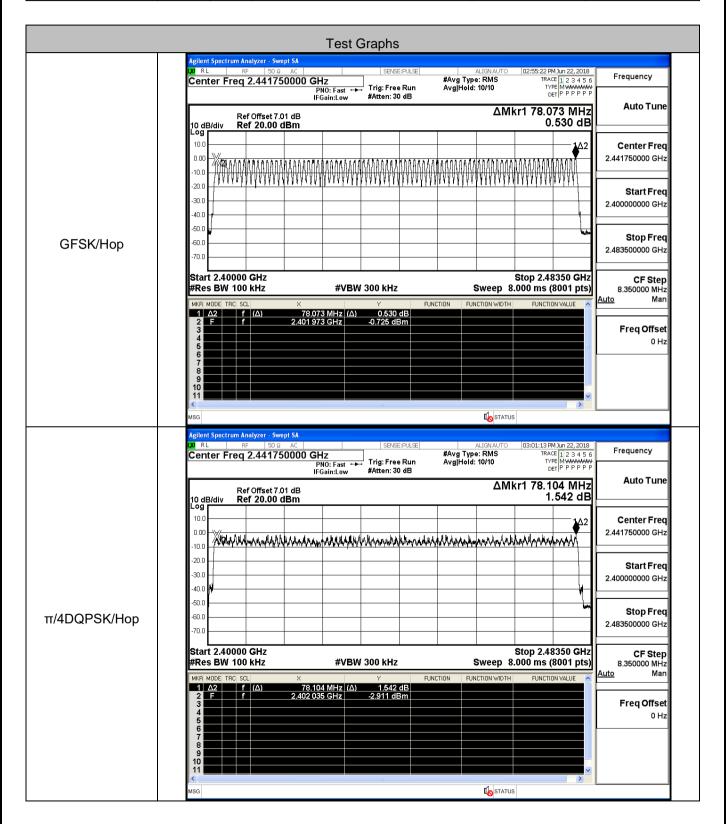






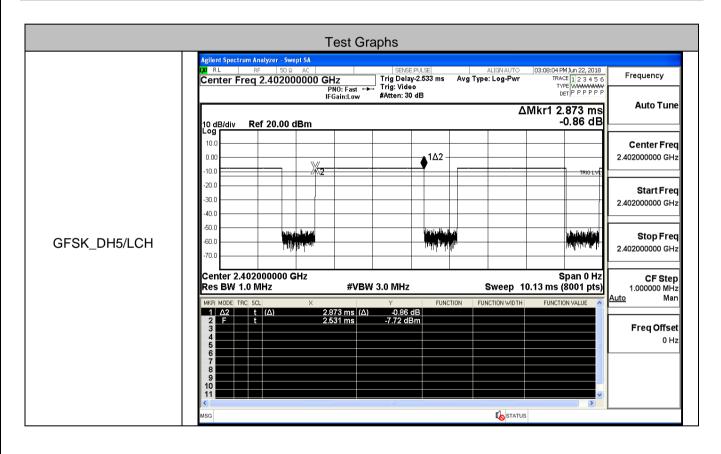
A.4 Hopping Channel Number

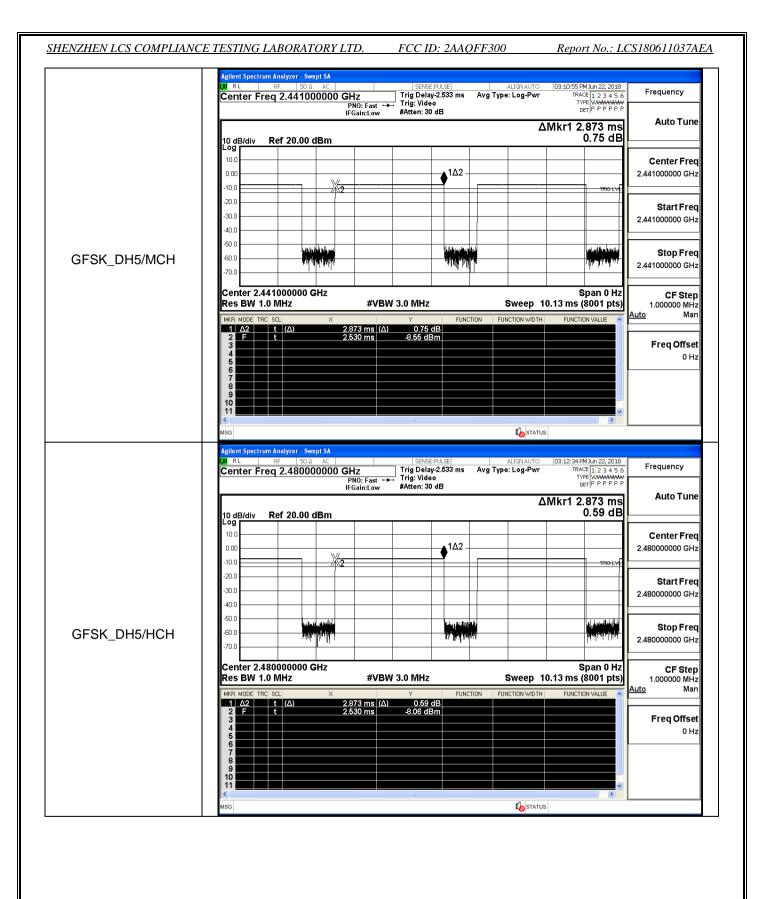
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	K Hop 79		>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS

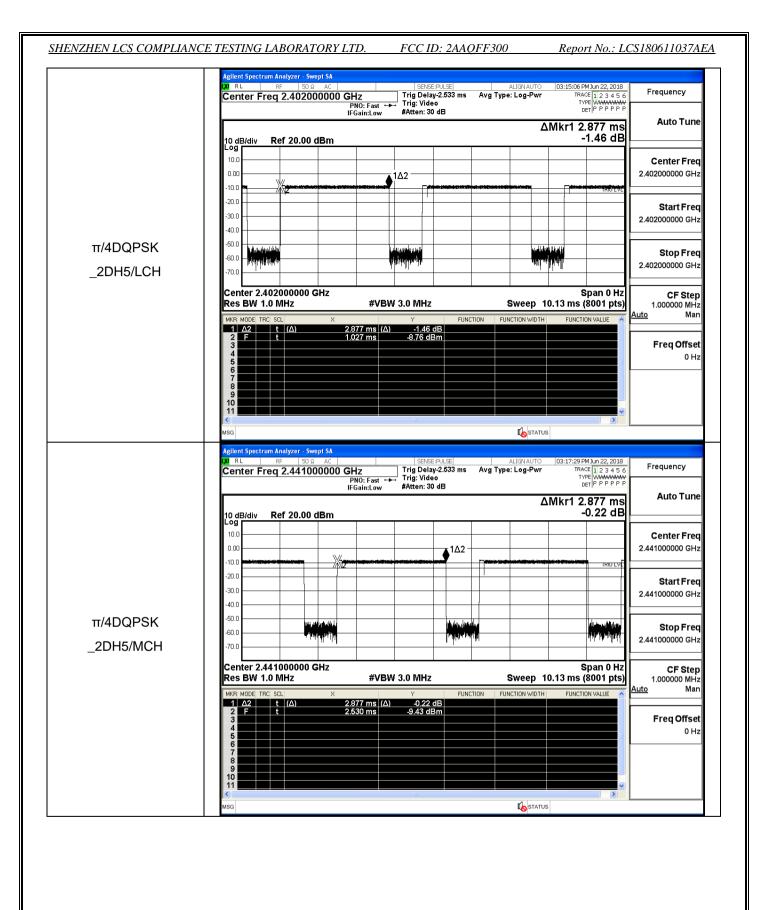


A.5 Dwell Time

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	HCH	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





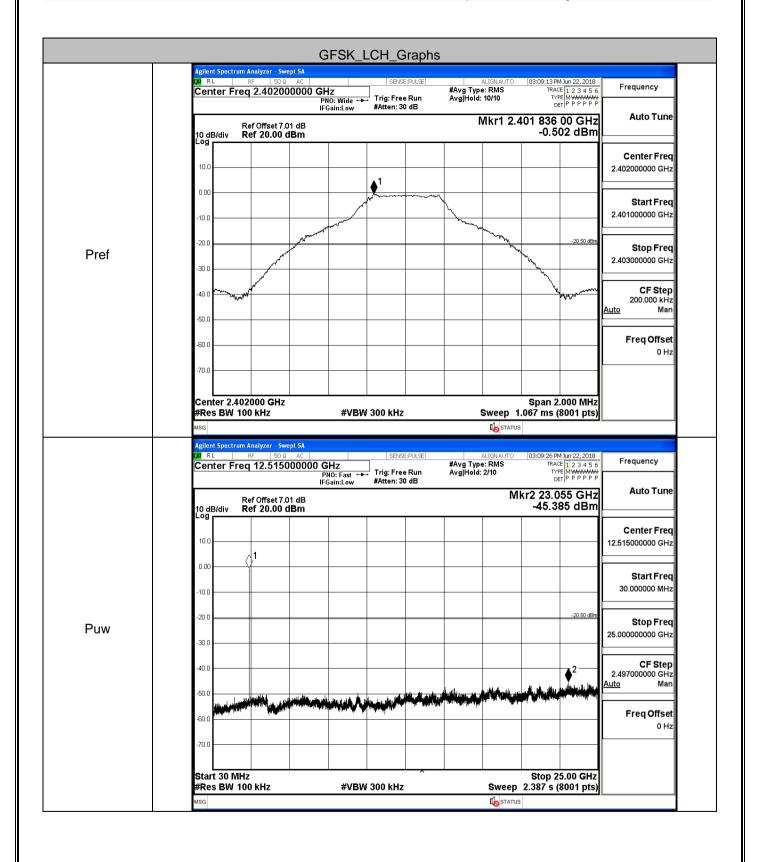


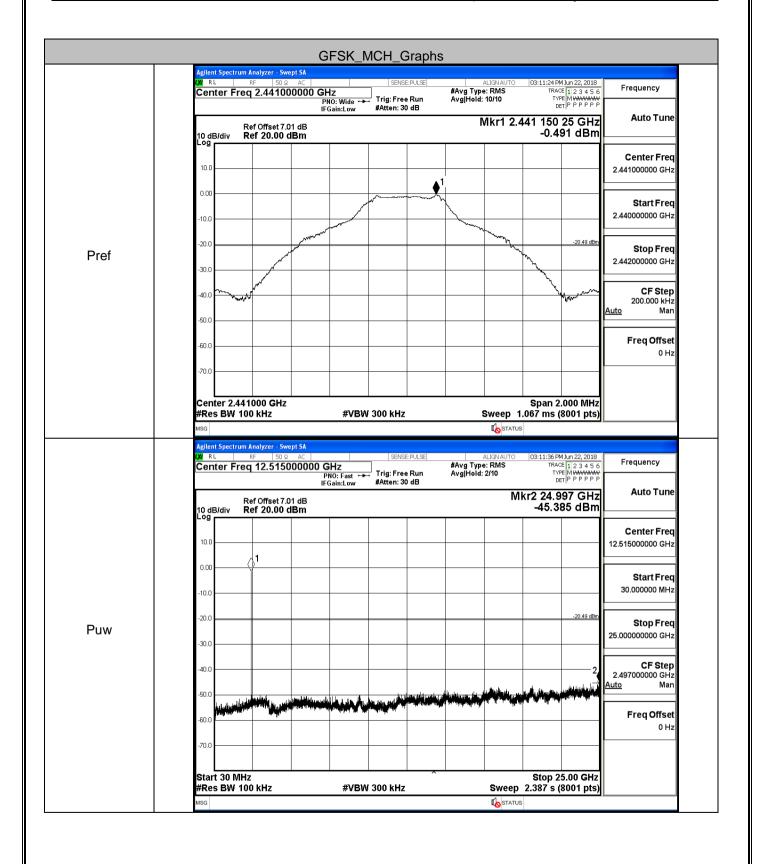
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AAQFF300 Report No.: LCS180611037AEA Agilent Spectrum Analyzer - Swept SA

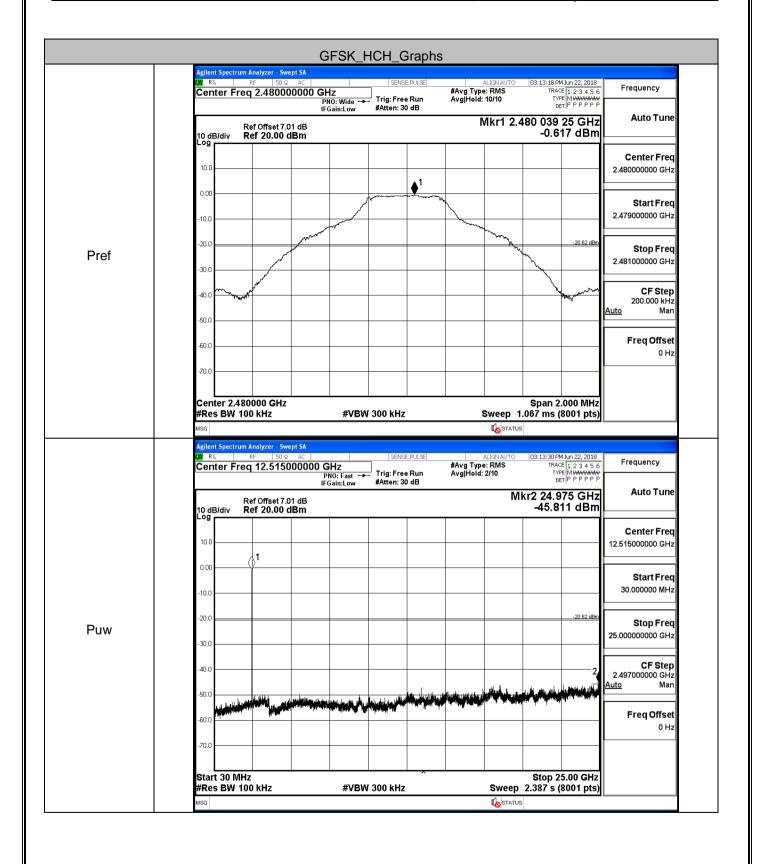
| M | R | R | SO Q | AC |
| Center Freq 2.480000000 GHz
| PNO: Fast | FGain:Low Frequency Auto Tune ΔMkr1 2.877 ms -0.94 dB 10 dB/div Ref 20.00 dBm 10.0 Center Freq **_**1∆2 0.00 2.480000000 GHz -10.0 -20.0 Start Freq -30.0 2.480000000 GHz -40.0 -50.0 π/4DQPSK Stop Freq -60.0 2.480000000 GHz _2DH5/HCH -70.0 Center 2.480000000 GHz Res BW 1.0 MHz Span 0 Hz CF Step 1.000000 MHz Man Sweep 10.13 ms (8001 pts) **#VBW 3.0 MHz** <u>Auto</u> FUNCTION FUNCTION WIDTH FUNCTION VALUE -0.94 dB -8.83 dBm Freq Offset 0 Hz STATUS

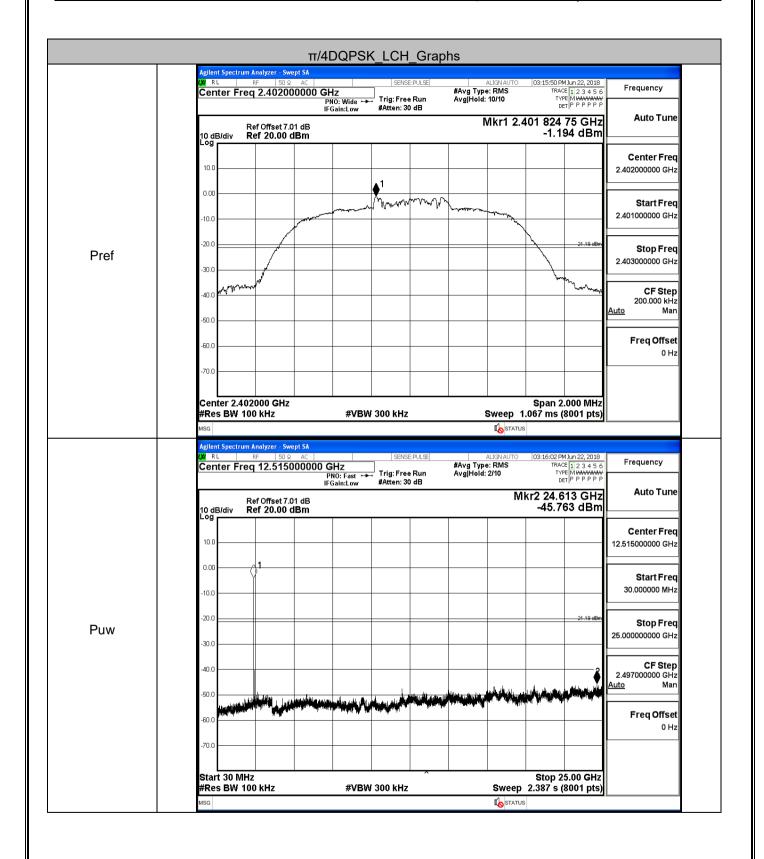
A.6 RF Conducted Spurious Emissions

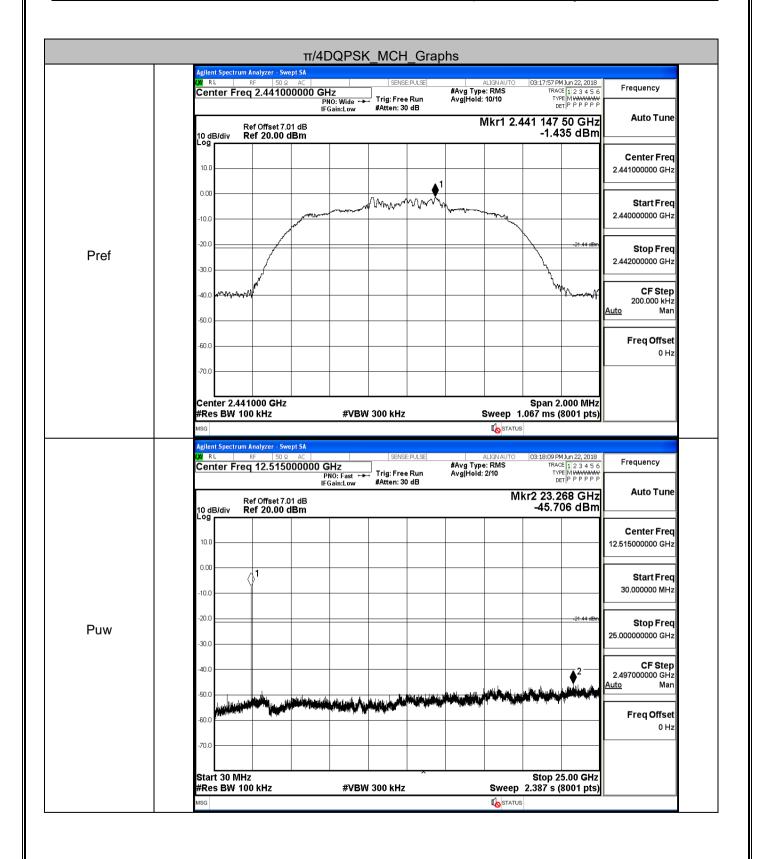
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	-0.502	-45.385	-20.502	PASS
GFSK	MCH	-0.491	-45.385	-20.491	PASS
	НСН	-0.617	-45.811	-20.617	PASS
π/4DQPSK	LCH	-1.194	-45.763	-21.194	PASS
	OQPSK MCH -1.435		-45.706	-21.435	PASS
	НСН	-1.06	-45.621	-21.060	PASS

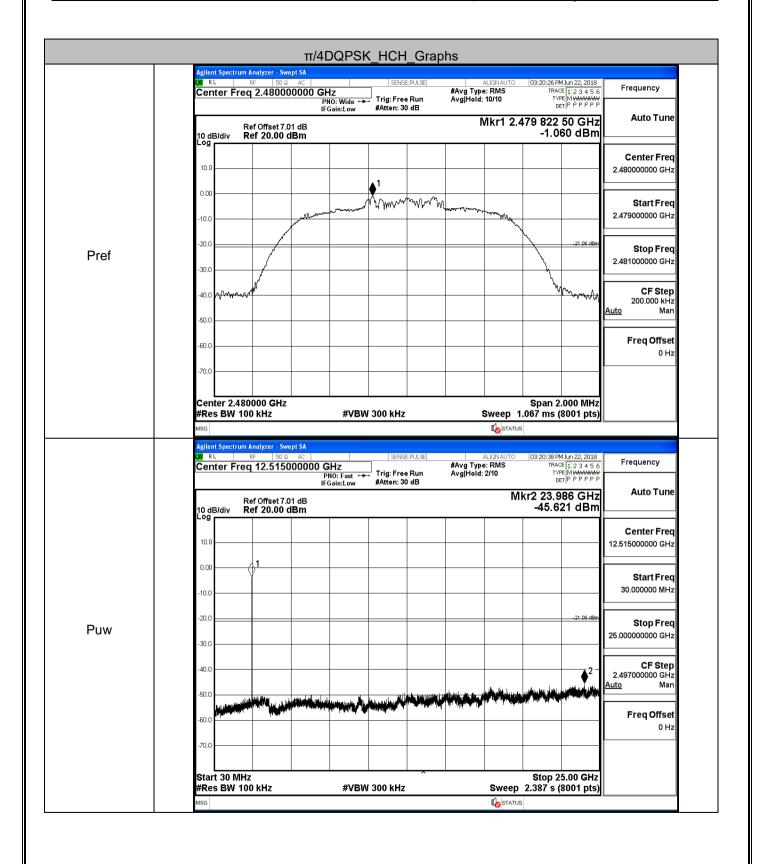






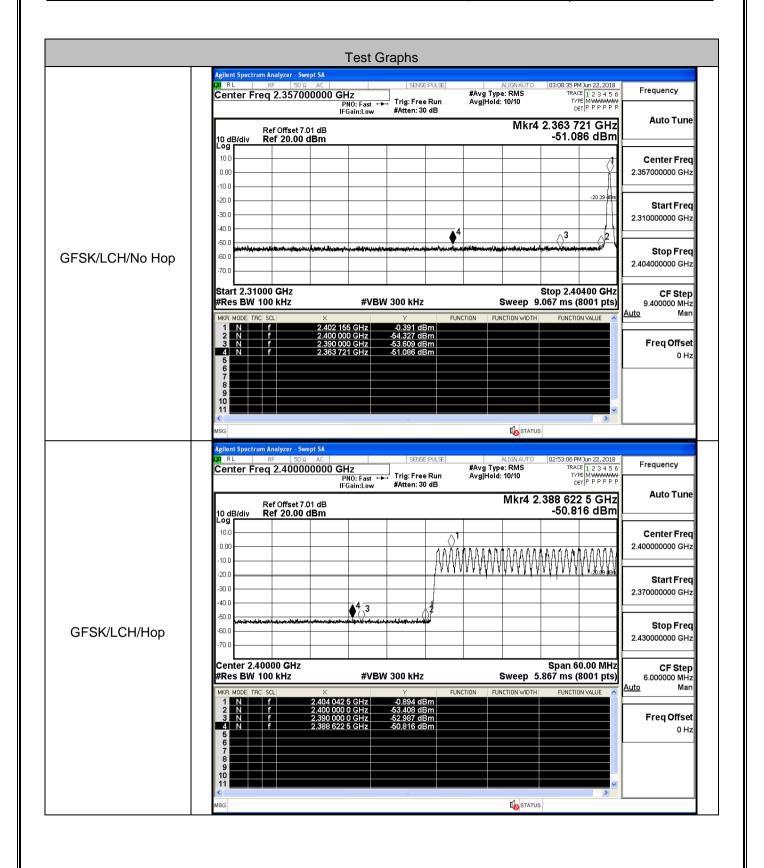


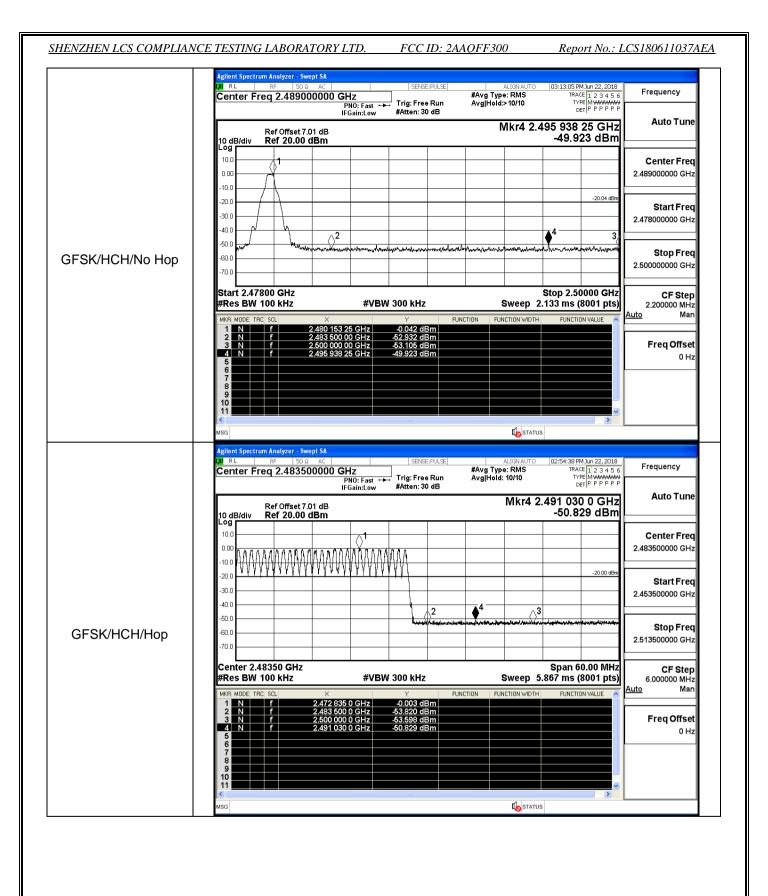


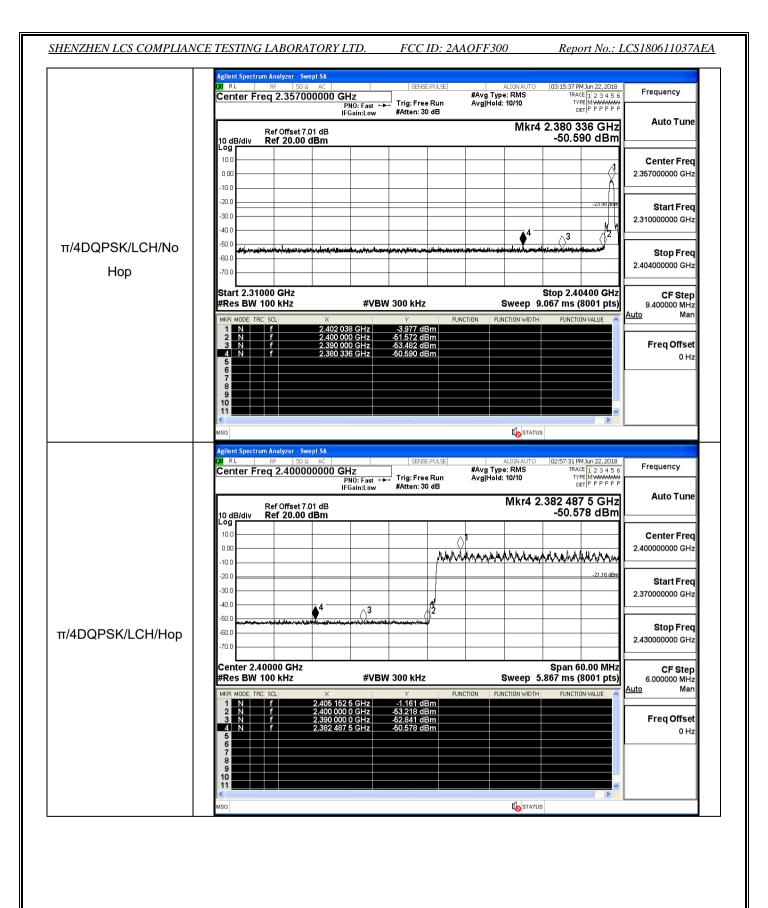


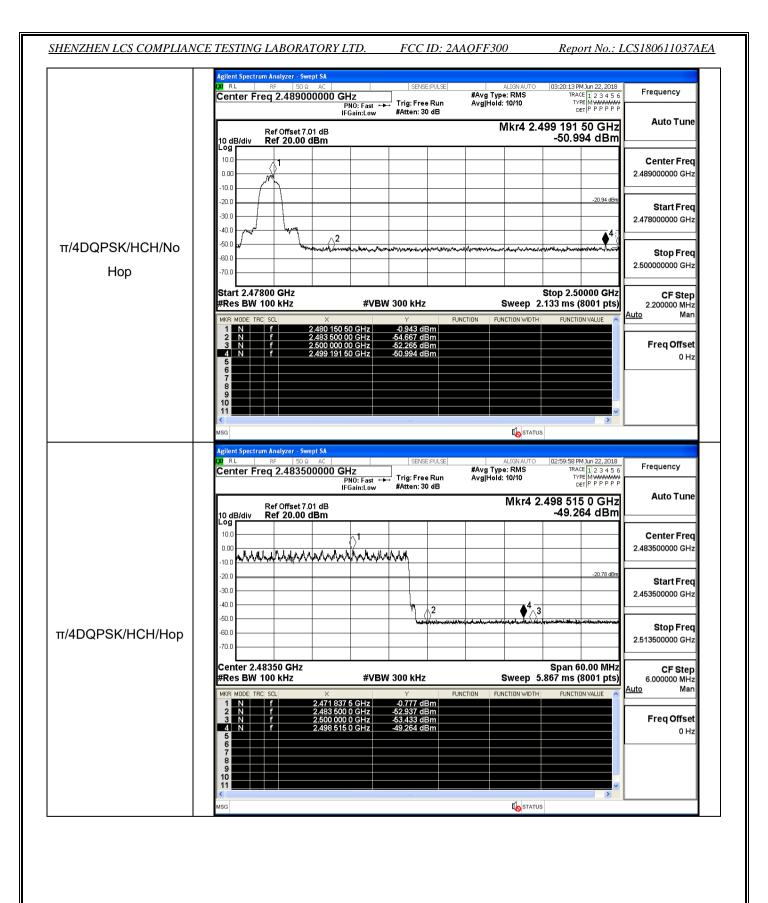
A.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict	
		0.400	-0.391	Off	-51.086	-20.39	PASS	
05014	LCH	2402	-0.894	On	-50.816	-20.89	PASS	
GFSK	НСН			-0.042	Off	-49.923	-20.04	PASS
		2480	-0.003	On	-50.829	-20	PASS	
	LCH 24	0.400	-3.977	Off	-50.590	-23.98	PASS	
		2402	-1.161	On	-50.578	-21.16	PASS	
π/4DQPSK			-0.943	Off	-50.994	-20.94	PASS	
	HCH	HCH 2480	-0.777	On	-49.264	-20.78	PASS	
			-1.065	On	-50.037	-21.07	PASS	







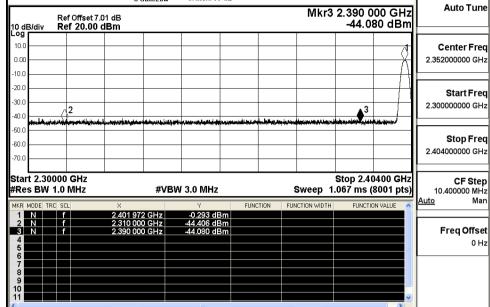


A.8 Restrict-band band-edge measurements

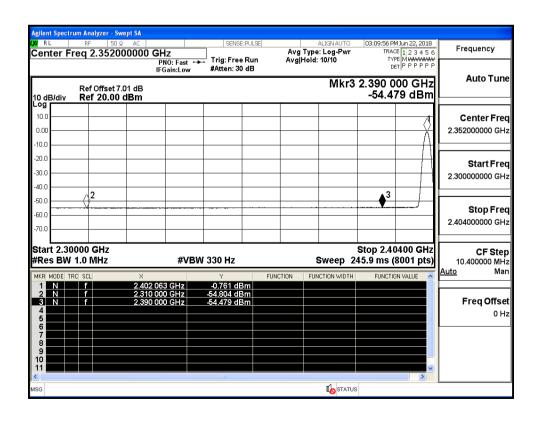
Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-44.41	2.0	0	52.85	PEAK	74	PASS
	Off	2310.0	-54.80	2.0	0	42.46	AV	54	PASS
	Off	2390.0	-44.08	2.0	0	53.18	PEAK	74	PASS
	Off	2390.0	-54.48	2.0	0	42.78	AV	54	PASS
GFSK	Off	2483.5	-43.57	2.0	0	53.69	PEAK	74	PASS
	Off	2483.5	-54.22	2.0	0	43.04	AV	54	PASS
	Off	2500.0	-44.83	2.0	0	52.43	PEAK	74	PASS
	Off	2500.0	-54.10	2.0	0	43.16	AV	54	PASS
	Off	2310.0	-44.72	2.0	0	52.54	PEAK	74	PASS
	Off	2310.0	-54.83	2.0	0	42.43	AV	54	PASS
	Off	2390.0	-44.93	2.0	0	52.33	PEAK	74	PASS
	Off	2390.0	-54.42	2.0	0	42.84	AV	54	PASS
π/4DQPSK	Off	2483.5	-43.54	2.0	0	53.72	PEAK	74	PASS
	Off	2483.5	-54.23	2.0	0	43.03	AV	54	PASS
	Off	2500.0	-44.63	2.0	0	52.63	PEAK	74	PASS
	Off	2500.0	-54.16	2.0	0	43.10	AV	54	PASS

STATUS

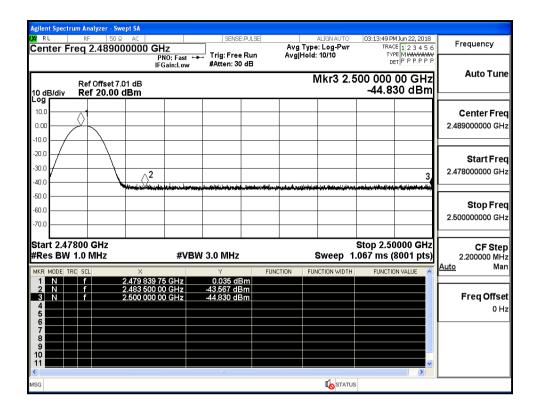




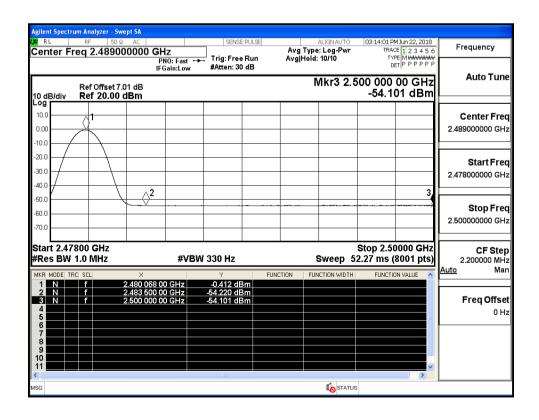
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



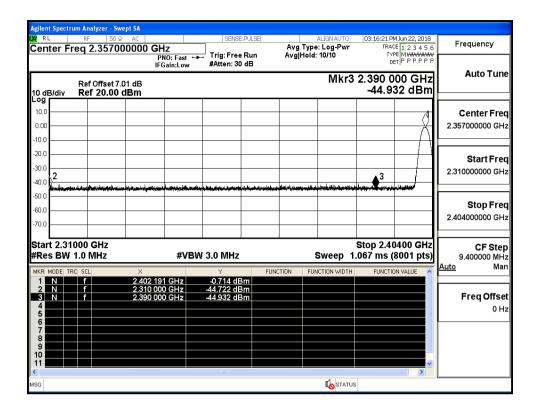
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



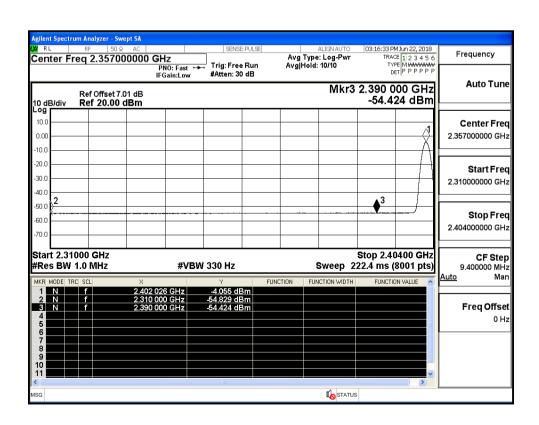
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



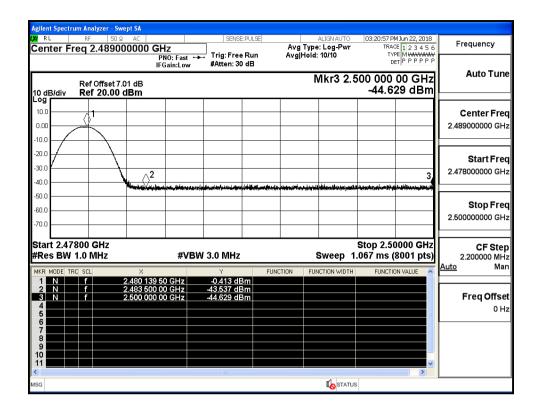
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



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)

