Appendix A

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

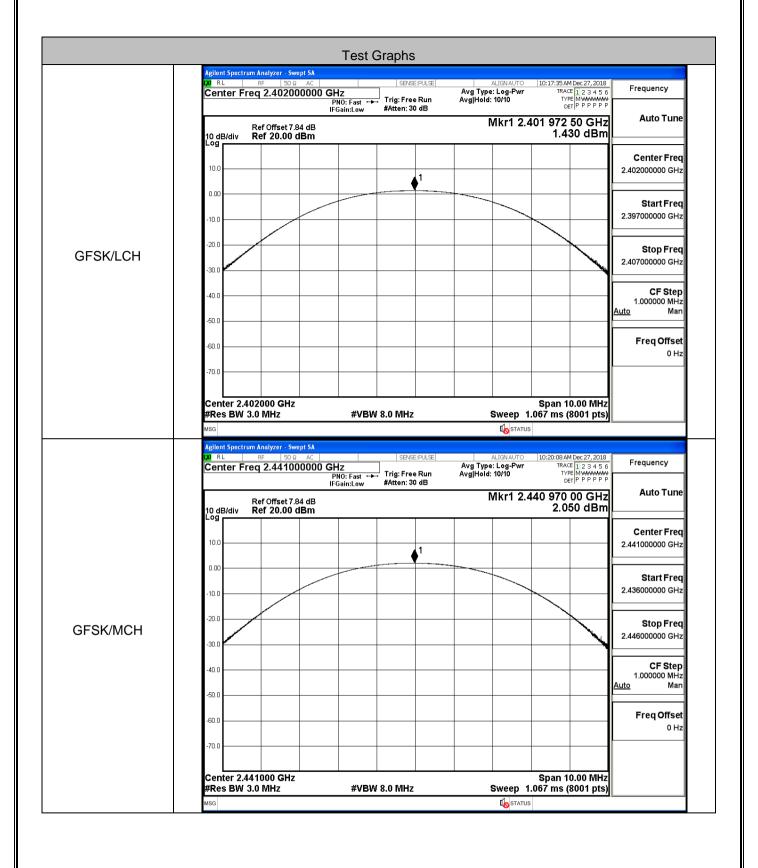
Product Name: Urbanista Boston Trade Mark: Urbanista **Test Model: Urbanista Boston**

Environmental Conditions

	 -	
	Temperature:	24.1 ° C
Relative Humidity:		53.1%
ATM Pressure:		100.0 kPa
Test Engineer:		WANGCHUANG
	Supervised by:	Jayden.Zhuo

A.1 Maximum Conducted Peak Output Power

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	1.430	21	PASS
GFSK	MCH	2.050	21	PASS
	НСН	1.605	21	PASS
	LCH	0.385	21	PASS
π/4DQPSK	MCH	1.142	21	PASS
	НСН	0.462	21	PASS
	LCH	0.279	21	PASS
8DPSK	MCH	1.014	21	PASS
	HCH	0.382	21	PASS



#VBW 8.0 MHz

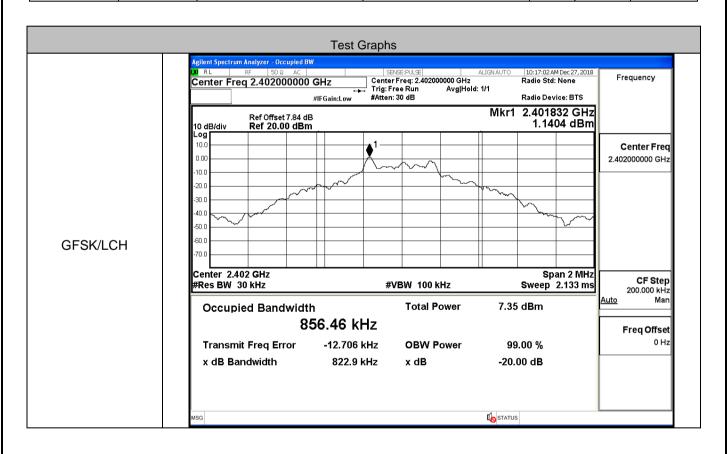
Span 10.00 MHz Sweep 1.067 ms (8001 pts)

STATUS

Center 2.480000 GHz #Res BW 3.0 MHz

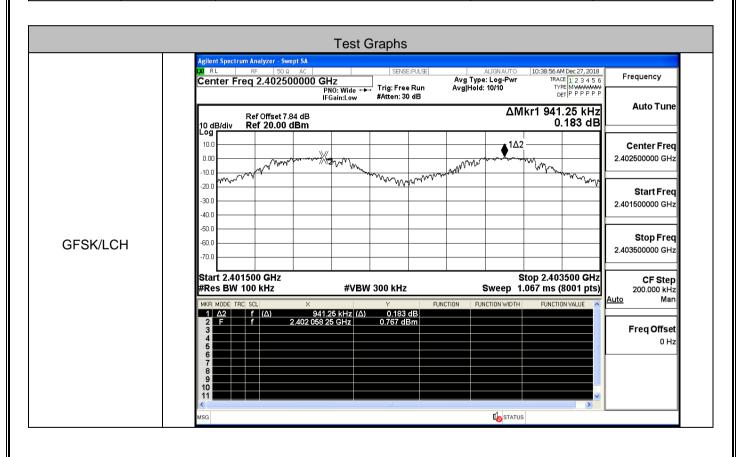
A.2 99% and 20dB Bandwidth

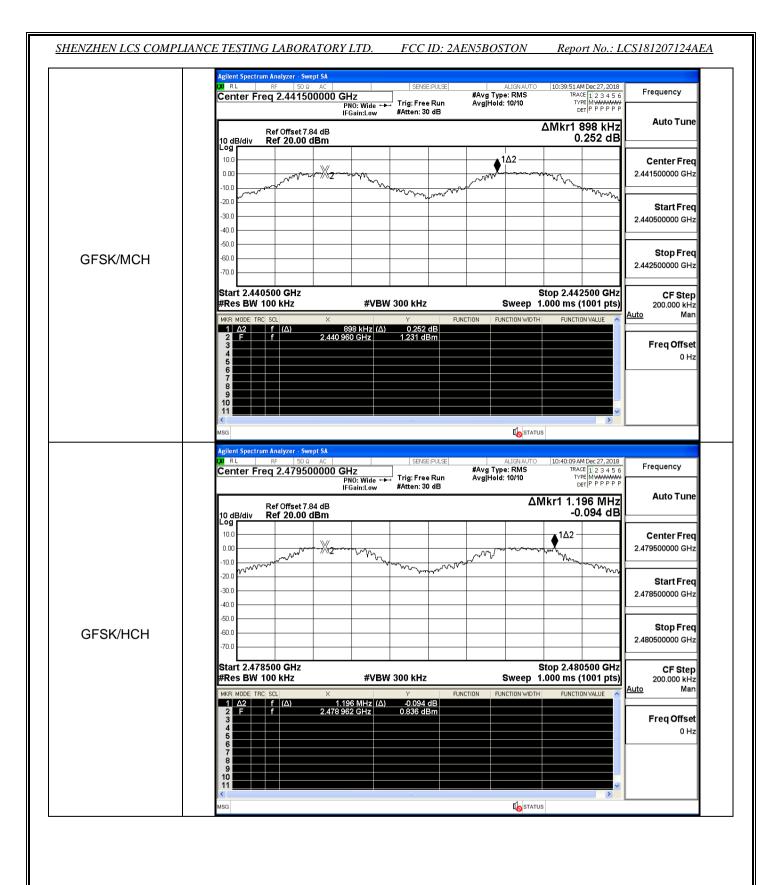
Mode	Channel.	99% Bandwidth [MHz]	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	0.85646	0.8229	Not Specified	PASS
GFSK	MCH	0.85477	0.8256	Not Specified	PASS
	HCH	0.85934	0.8234	Not Specified	PASS
	LCH	1.0738	1.126	Not Specified	PASS
π/4DQPSK	MCH	1.0729	1.126	Not Specified	PASS
	HCH	1.0739	1.140	Not Specified	PASS
	LCH	1.0749	1.150	Not Specified	PASS
8DPSK	MCH	1.0691	1.141	Not Specified	PASS
	HCH	1.0711	1.148	Not Specified	PASS

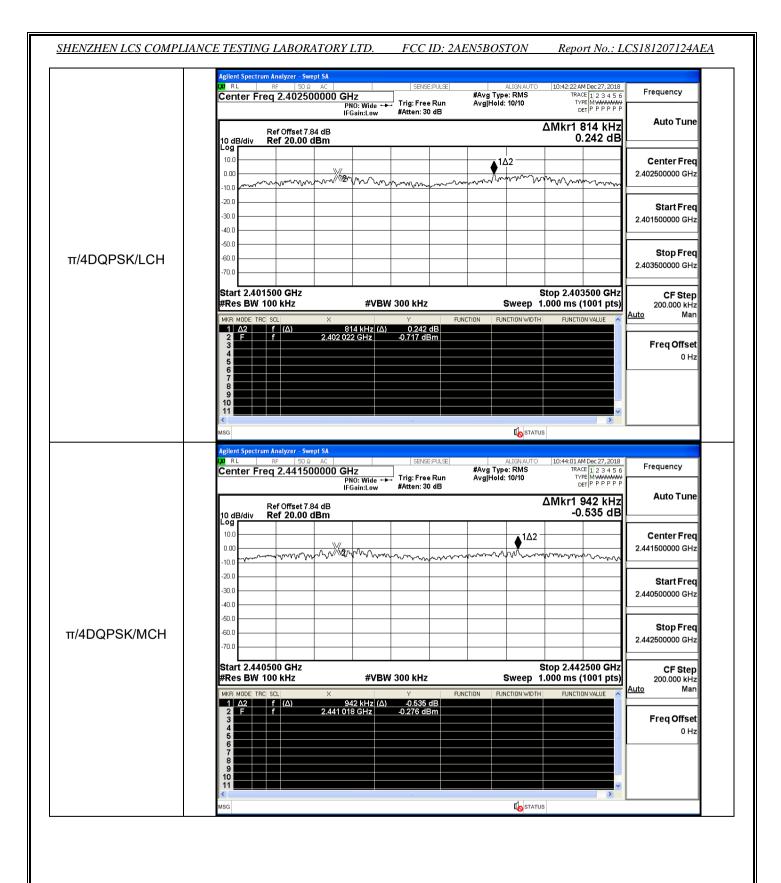


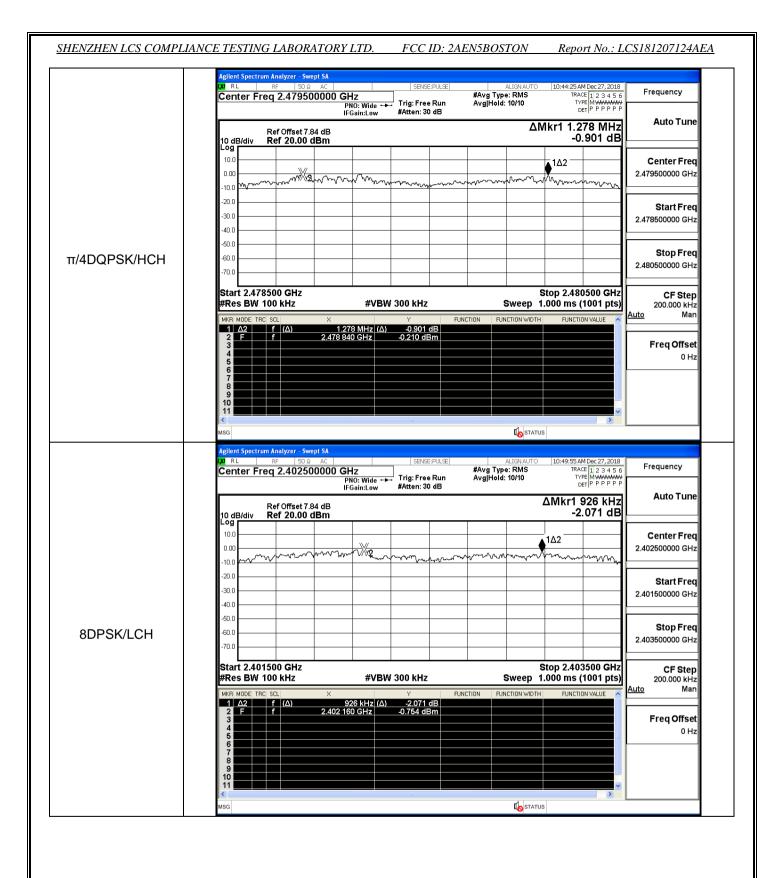
A.3 Carrier Frequency Separation

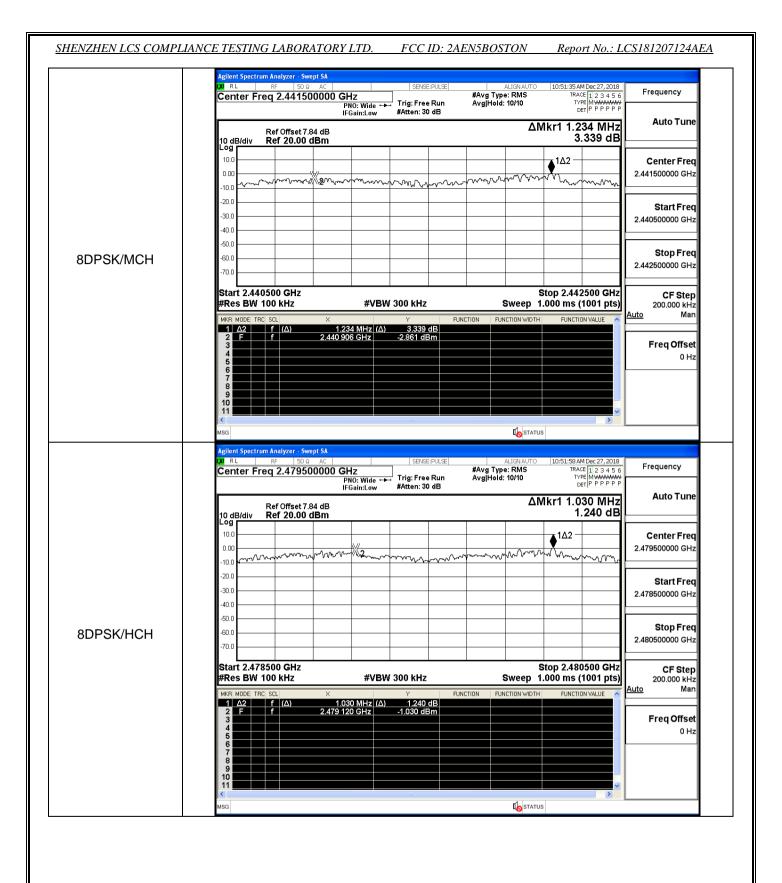
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	0.941	0.550	PASS
GFSK	MCH	0.898	0.550	PASS
	HCH	1.196	0.550	PASS
	LCH	0.814	0.760	PASS
π/4DQPSK	MCH	0.942	0.760	PASS
	HCH	1.278	0.760	PASS
	LCH	0.926	0.767	PASS
8DPSK	MCH	1.234	0.767	PASS
	HCH	1.030	0.767	PASS





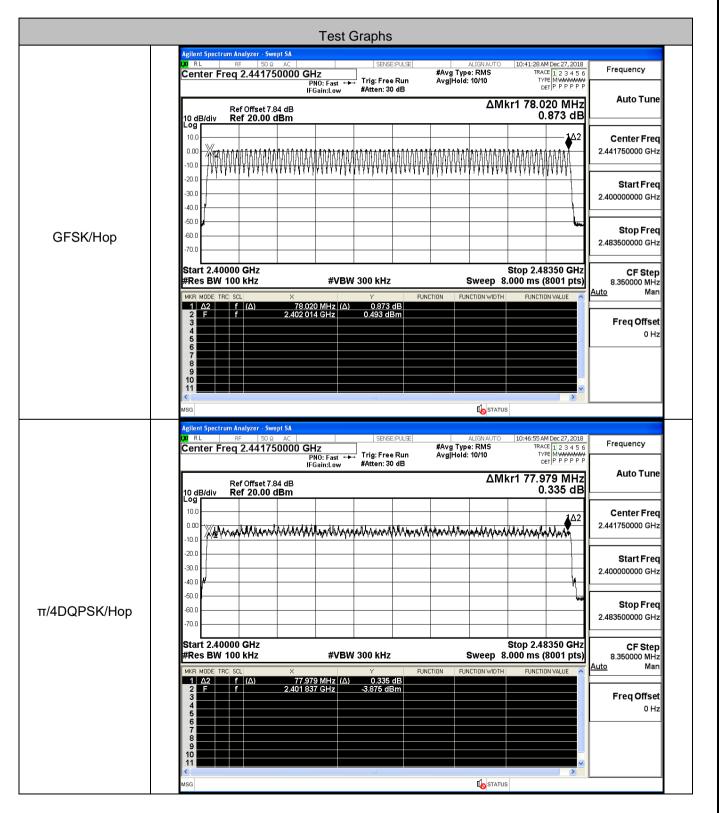






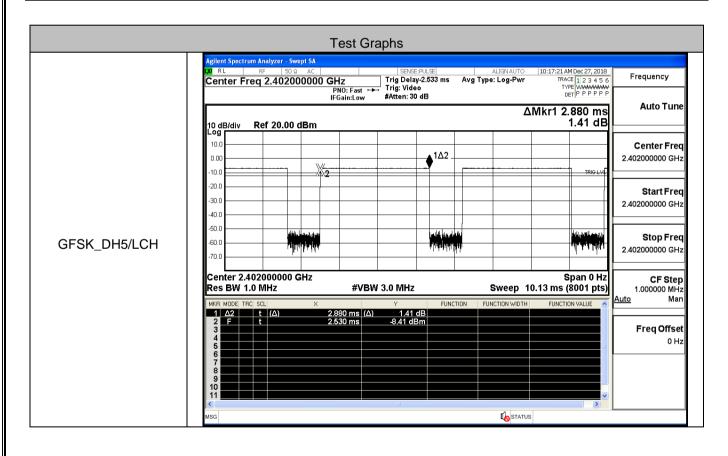
A.4 Hopping Channel Number

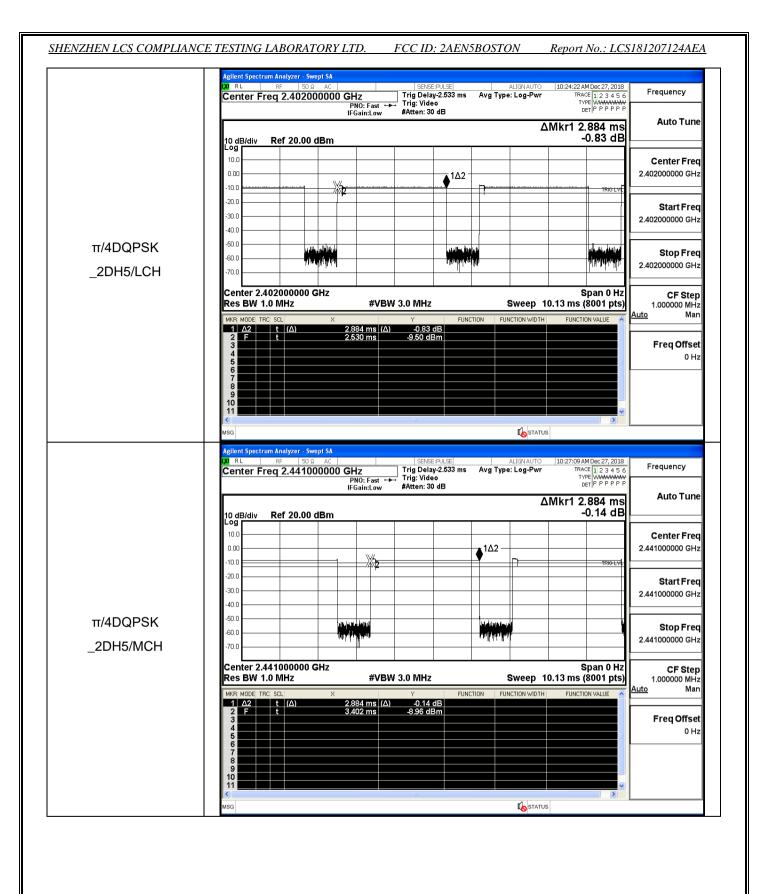
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS
8DPSK	Нор	79	>=15	PASS

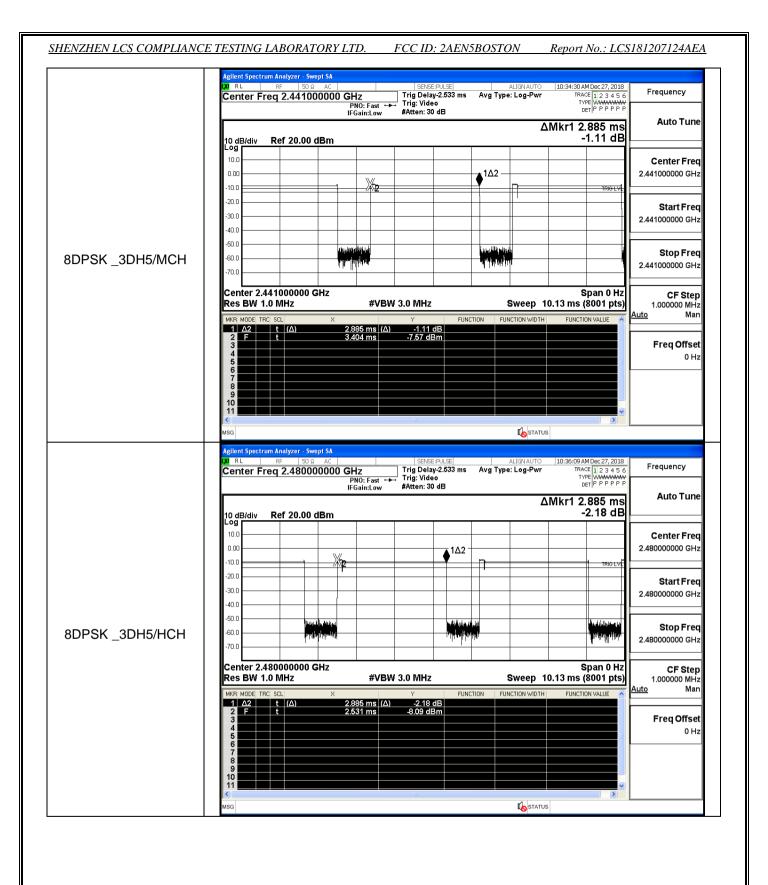


A.5 Dwell Time

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	НСН	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	HCH	2.89	106.7	0.308	0.4	PASS

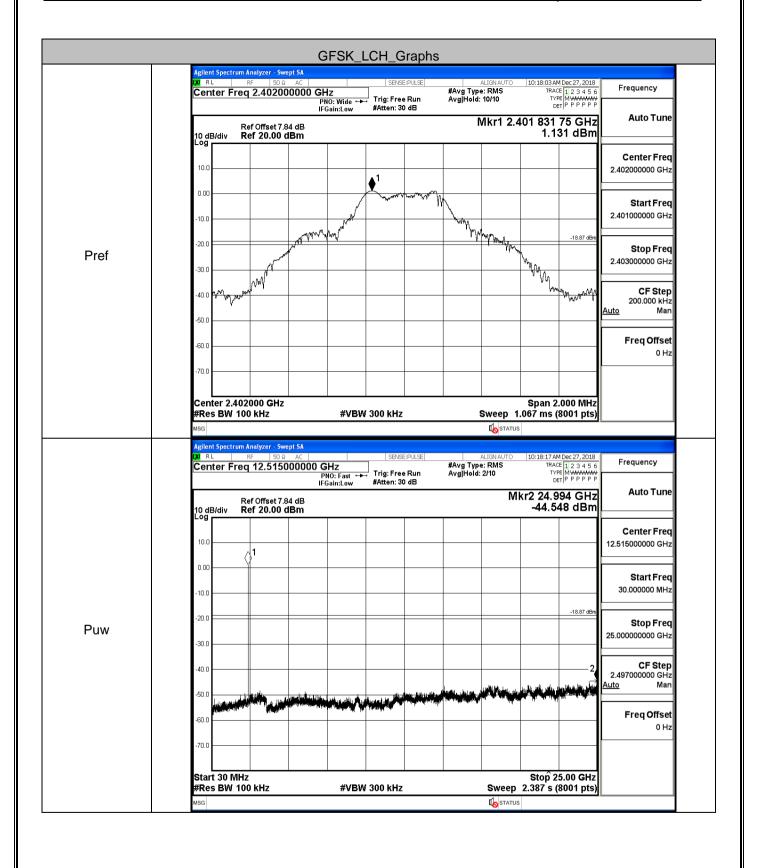


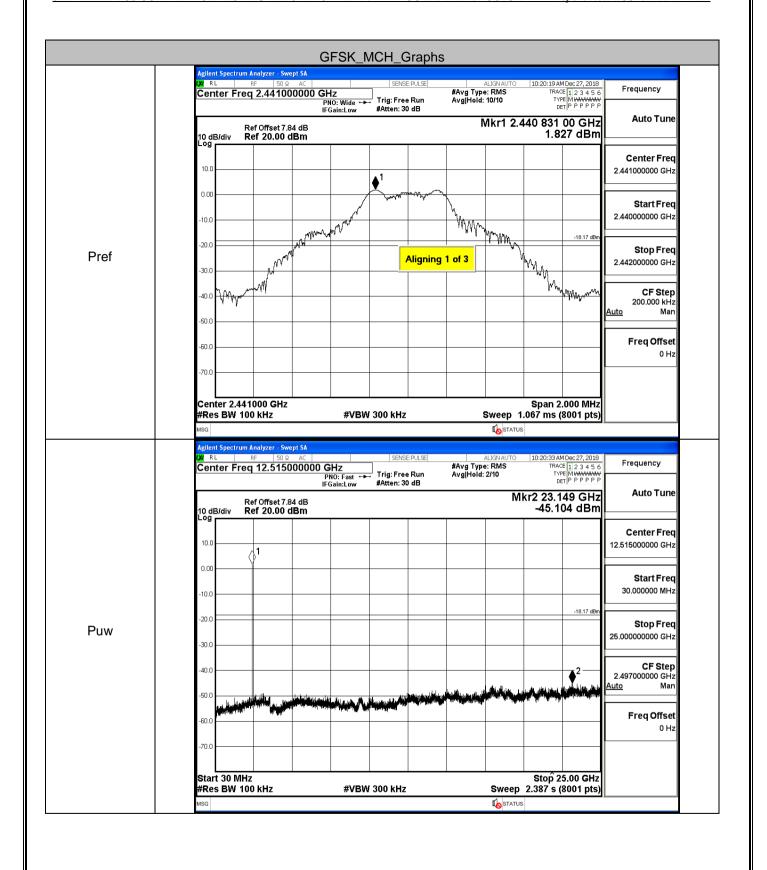


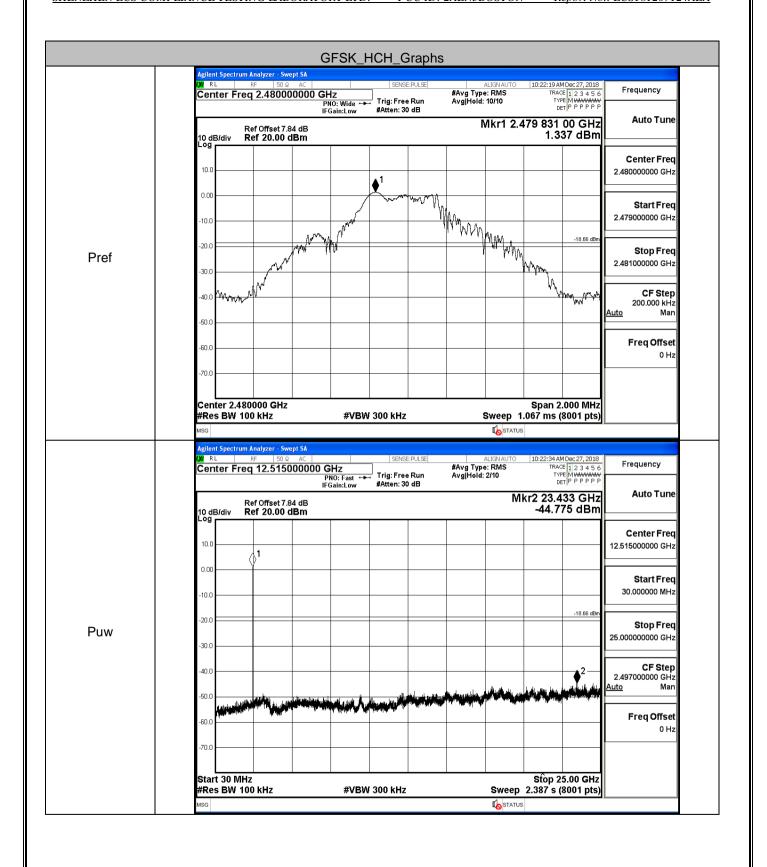


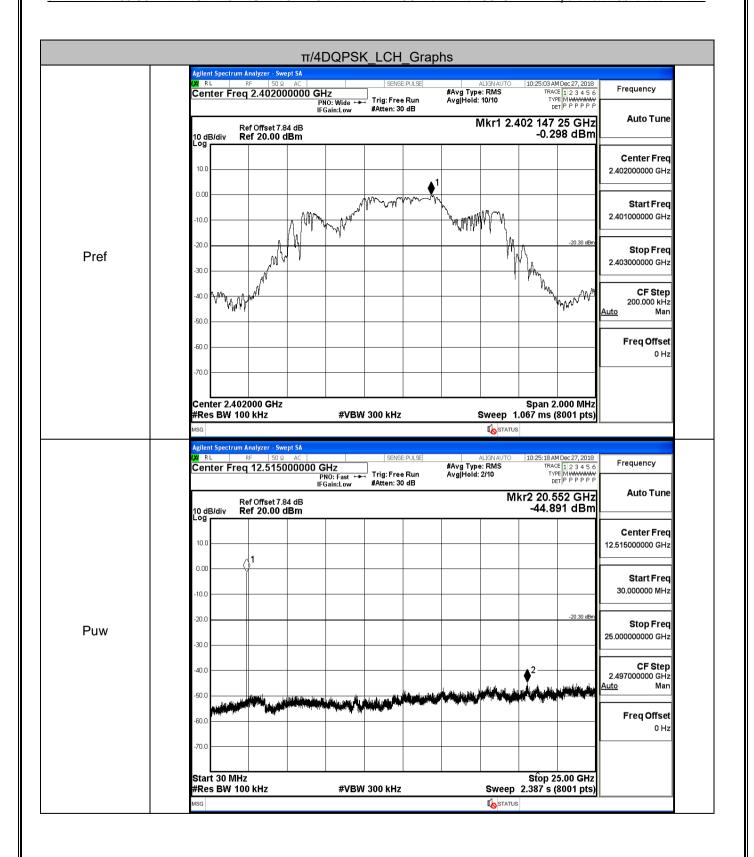
A.6 RF Conducted Spurious Emissions

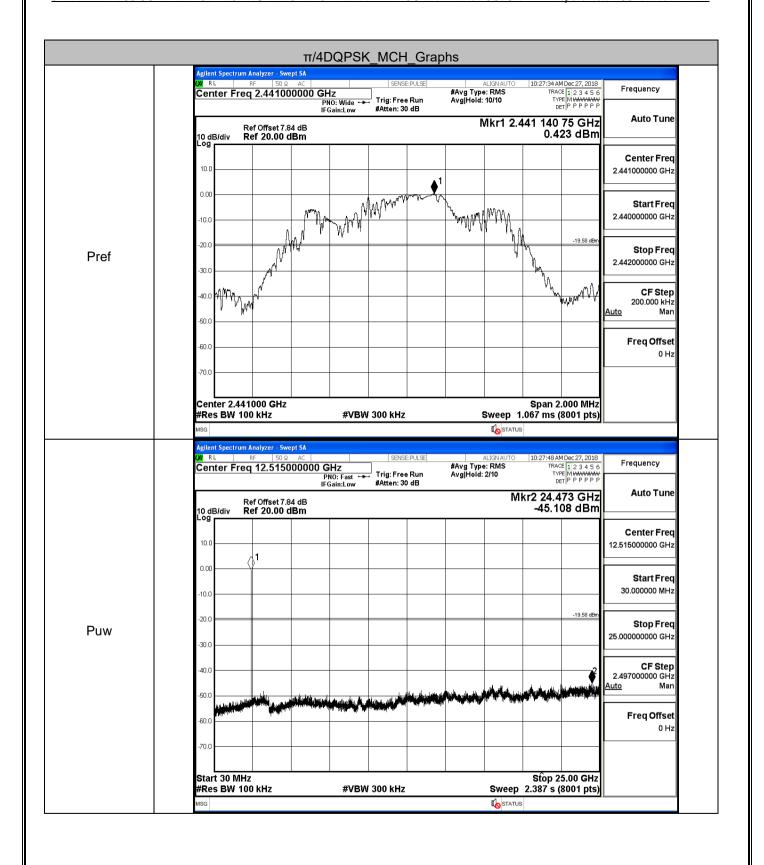
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	1.131	-44.548	-18.869	PASS
GFSK	MCH	1.827	-45.104	-18.173	PASS
	НСН	1.337	-44.775	-18.663	PASS
	LCH	-0.298	-44.891	-20.298	PASS
π/4DQPSK	MCH	0.423	-45.108	-19.577	PASS
	НСН	-0.103	-44.763	-20.103	PASS
	LCH	-0.247	-44.762	-20.247	PASS
8DPSK	MCH	0.537	-45.167	-19.463	PASS
	HCH	-0.286	-45.044	-20.286	PASS

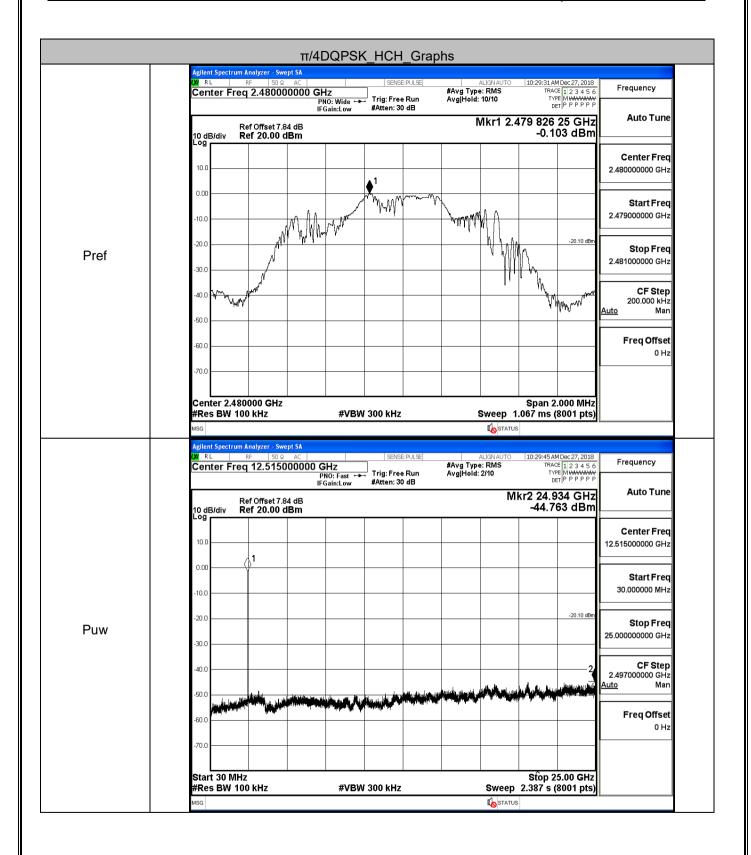


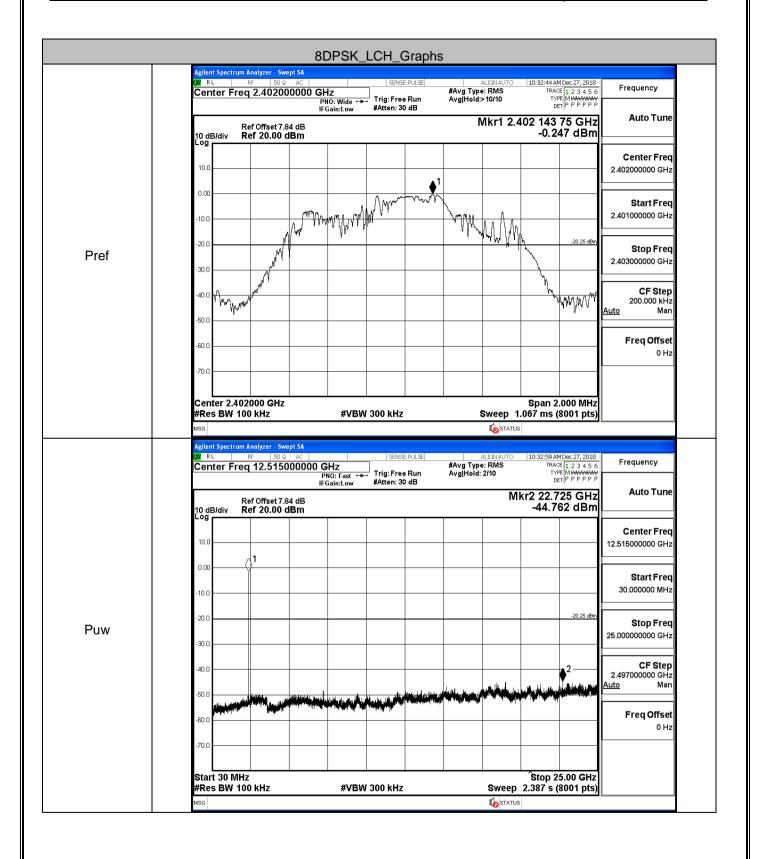


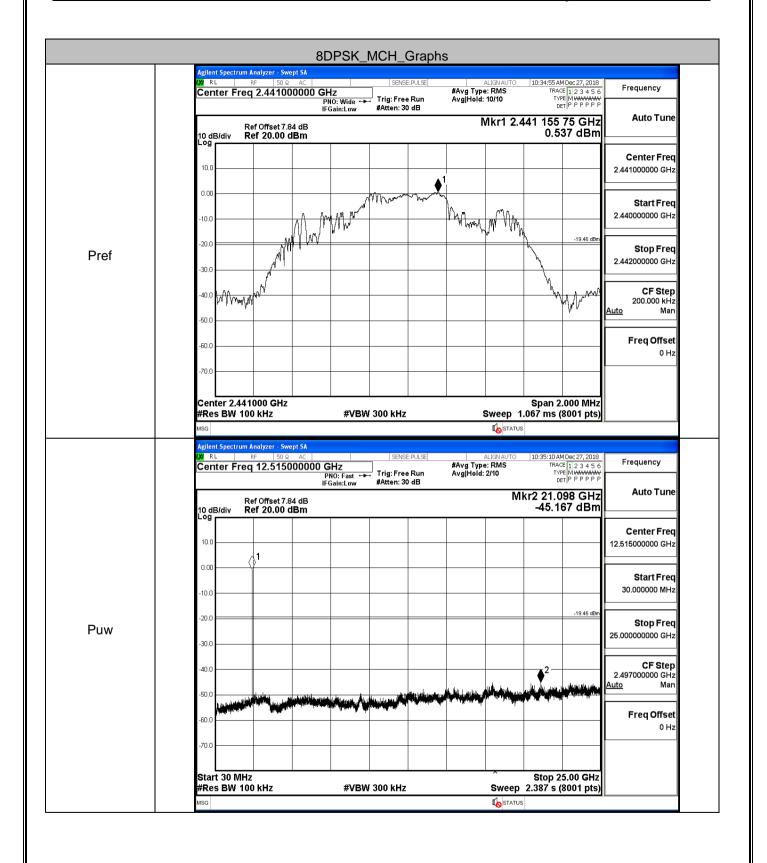


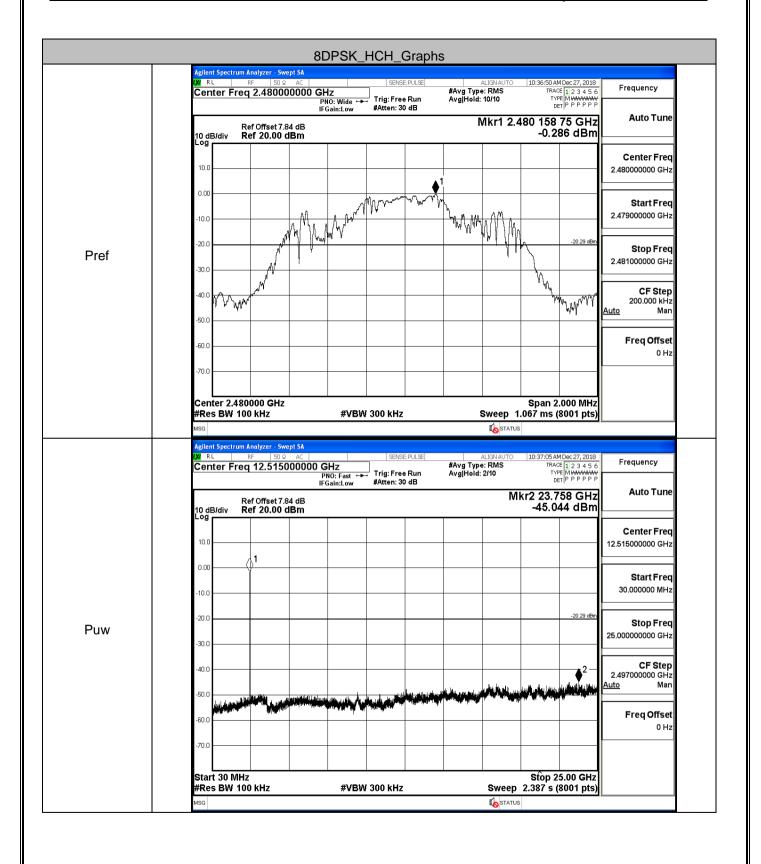






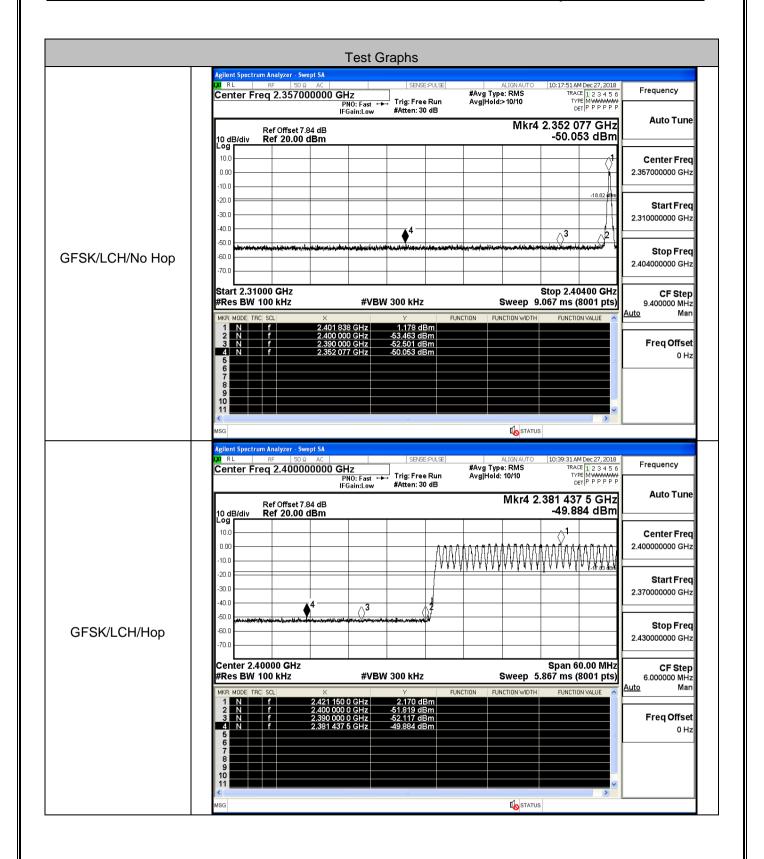


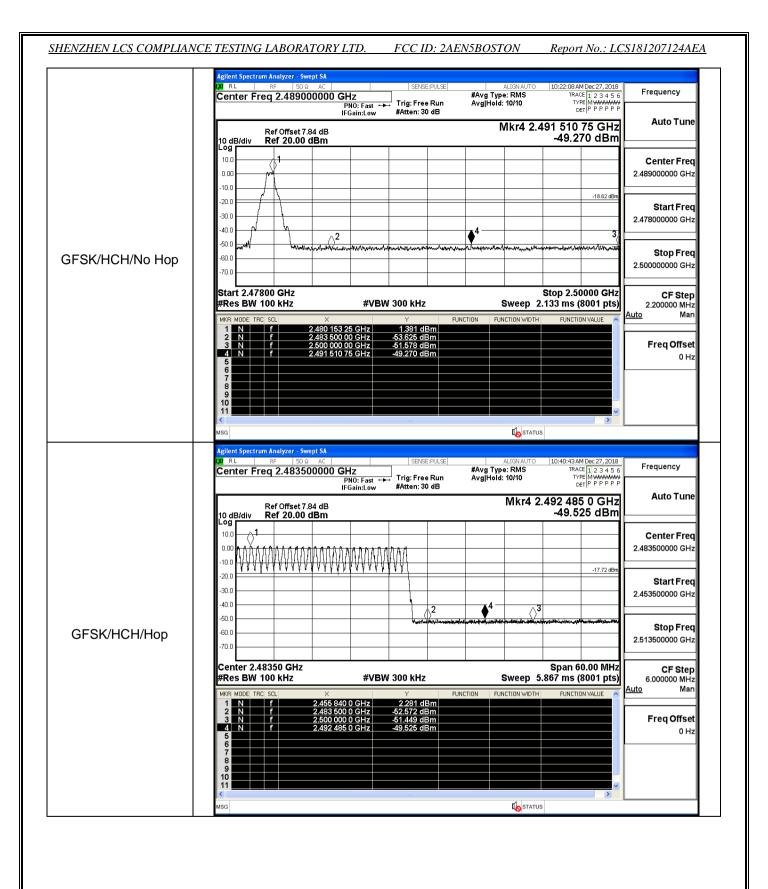


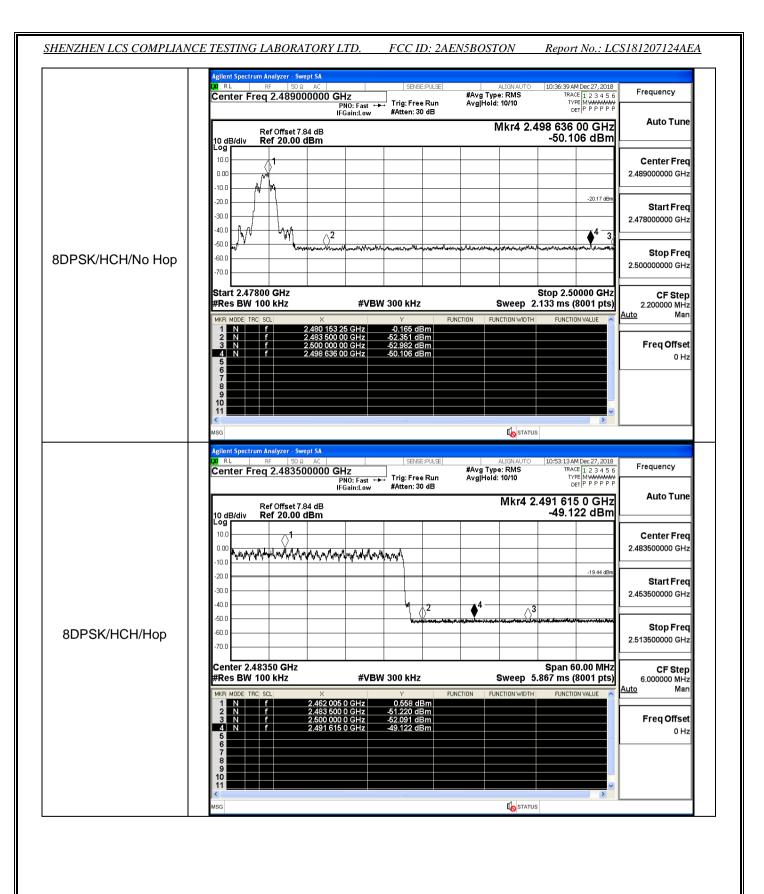


A.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
			1.178	Off	-50.053	-18.82	PASS
2-21/	LCH	2402	2.170	On	-49.884	-17.83	PASS
GFSK			1.381	Off	-49.270	-18.62	PASS
	HCH	2480	2.281	On	-49.525	-17.72	PASS
			-0.111	Off	-50.181	-20.11	PASS
	LCH	2402	0.802	On	-49.714	-19.2	PASS
π/4DQPSK			-0.195	Off	-50.418	-20.2	PASS
	HCH	2480	0.956	On	-48.679	-19.04	PASS
			-0.299	Off	-49.462	-20.3	PASS
	LCH	2402	0.980	On	-49.605	-19.02	PASS
8DPSK			-0.165	Off	-50.106	-20.17	PASS
	HCH	2480	0.558	On	-49.122	-19.44	PASS



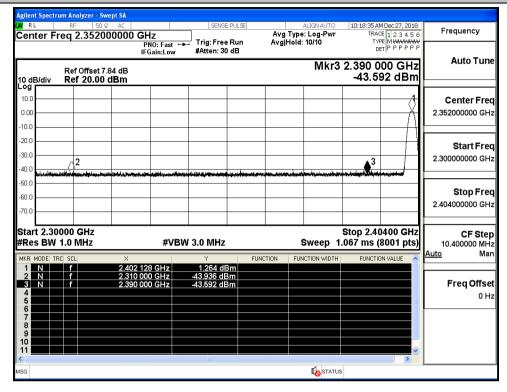




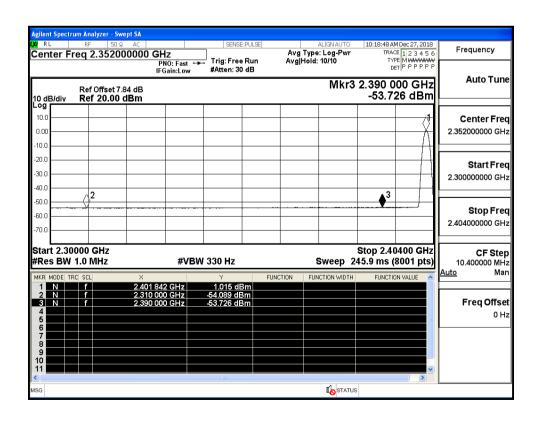
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-43.94	2.0	0	53.32	PEAK	74	PASS
	Off	2310.0	-54.09	2.0	0	43.17	AV	54	PASS
	Off	2390.0	-43.59	2.0	0	53.67	PEAK	74	PASS
	Off	2390.0	-53.73	2.0	0	43.53	AV	54	PASS
GFSK	Off	2483.5	-42.98	2.0	0	54.27	PEAK	74	PASS
	Off	2483.5	-53.49	2.0	0	43.77	AV	54	PASS
	Off	2500.0	-42.71	2.0	0	54.54	PEAK	74	PASS
	Off	2500.0	-53.33	2.0	0	43.92	AV	54	PASS
	Off	2310.0	-43.85	2.0	0	53.41	PEAK	74	PASS
	Off	2310.0	-54.06	2.0	0	43.20	AV	54	PASS
	Off	2390.0	-43.74	2.0	0	53.52	PEAK	74	PASS
//	Off	2390.0	-53.88	2.0	0	43.38	AV	54	PASS
π/4DQPSK	Off	2483.5	-42.75	2.0	0	54.51	PEAK	74	PASS
	Off	2483.5	-53.41	2.0	0	43.85	AV	54	PASS
	Off	2500.0	-43.74	2.0	0	53.52	PEAK	74	PASS
	Off	2500.0	-53.46	2.0	0	43.80	AV	54	PASS
	Off	2310.0	-41.89	2.0	0	55.37	PEAK	74	PASS
	Off	2310.0	-54.05	2.0	0	43.21	AV	54	PASS
	Off	2390.0	-43.94	2.0	0	53.31	PEAK	74	PASS
	Off	2390.0	-53.53	2.0	0	43.73	AV	54	PASS
8DPSK	Off	2483.5	-43.19	2.0	0	54.07	PEAK	74	PASS
	Off	2483.5	-53.48	2.0	0	43.78	AV	54	PASS
	Off	2500.0	-41.72	2.0	0	55.53	PEAK	74	PASS
	Off	2500.0	-53.36	2.0	0	43.90	AV	54	PASS

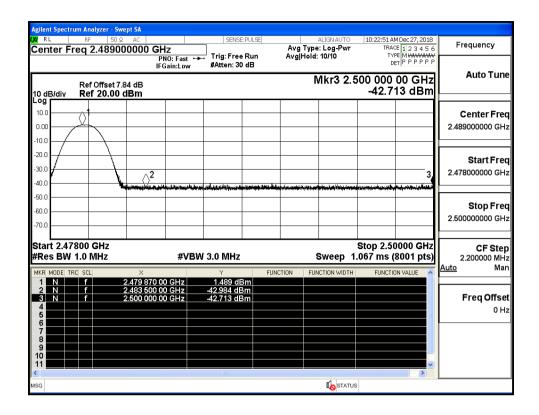




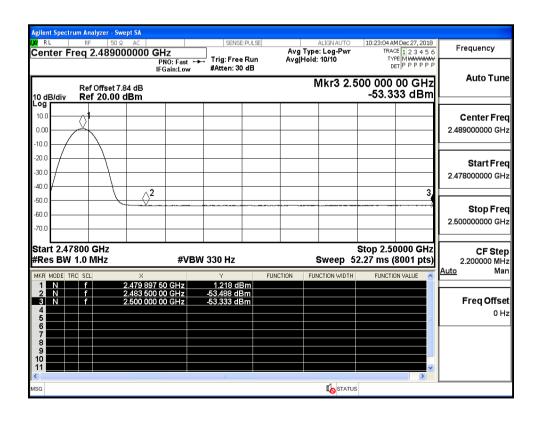
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



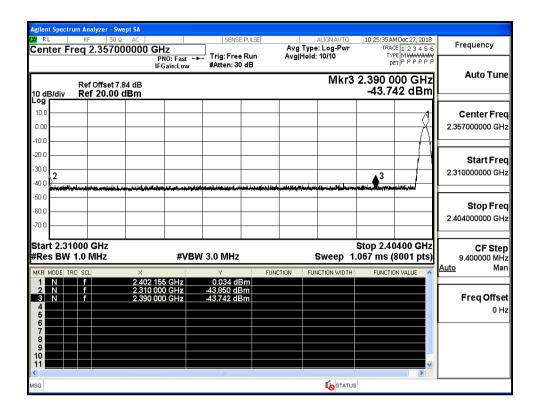
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



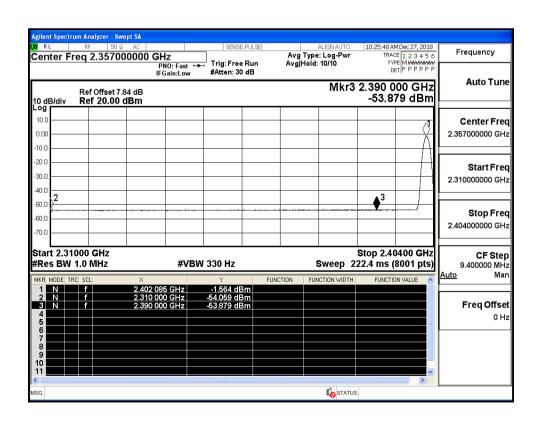
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



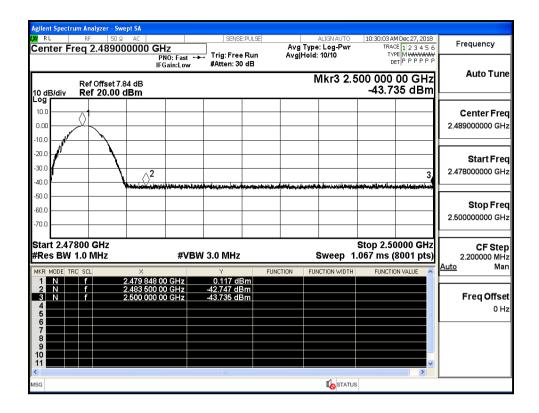
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



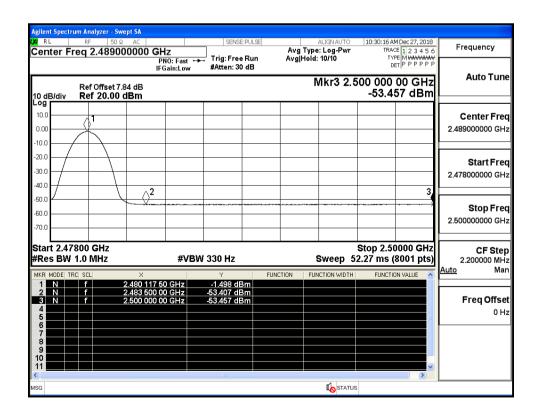
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



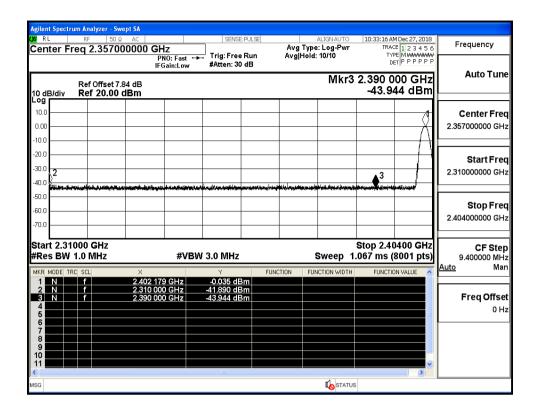
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



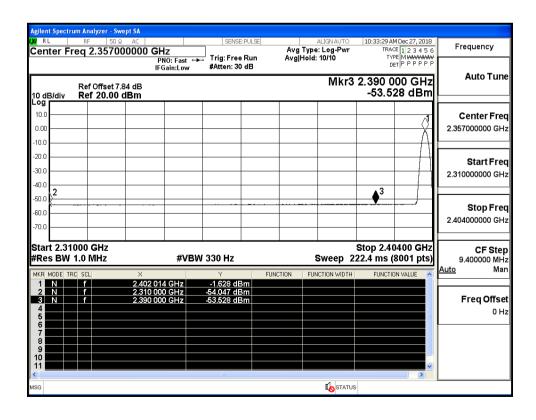
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



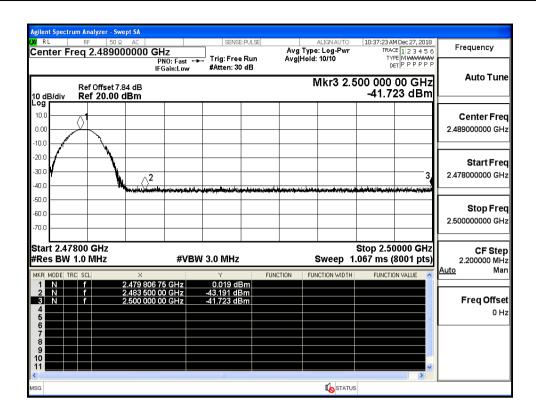
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



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)

