Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Portable 4G LTE Router Test Model: GL-E750C4

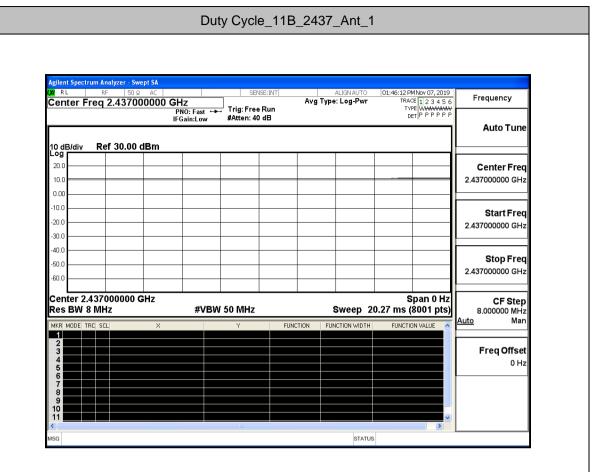
Environmental Conditions

_						
Temperature:	22.6°C					
Relative Humidity:	54.1%					
ATM Pressure:	100.0 kPa					
Test Engineer:	Diamond Lu					
Supervised by:	Wang Chuang					

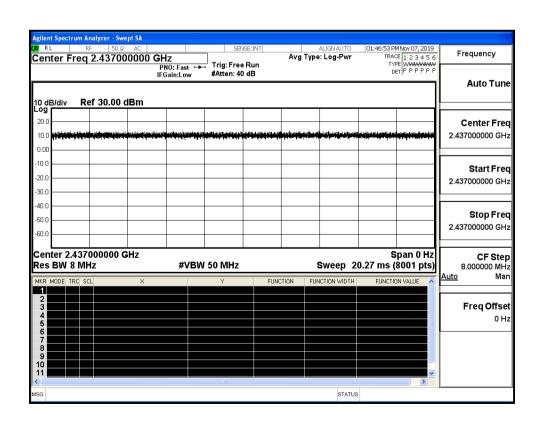
A.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant_1	100	PASS
11G	2437	Ant_1	100	PASS
11N20	2437	Ant_1	100	PASS
11N40	2437	Ant_1	100	PASS

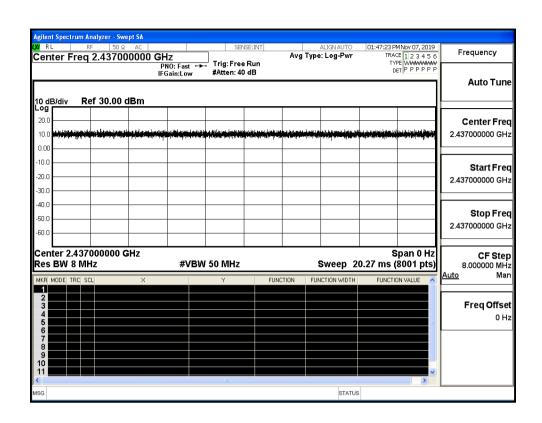
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant_2	100	PASS
11G	2437	Ant_2	100	PASS
11N20	2437	Ant_2	100	PASS
11N40	2437	Ant_2	100	PASS



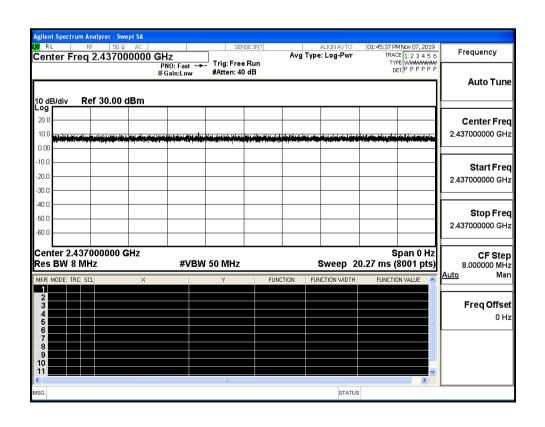


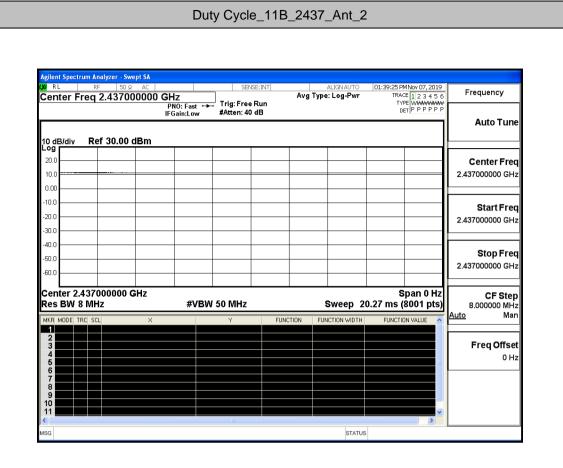


Duty Cycle_11N20_2437_Ant_1



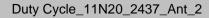
Duty Cycle_11N40_2437_Ant_1

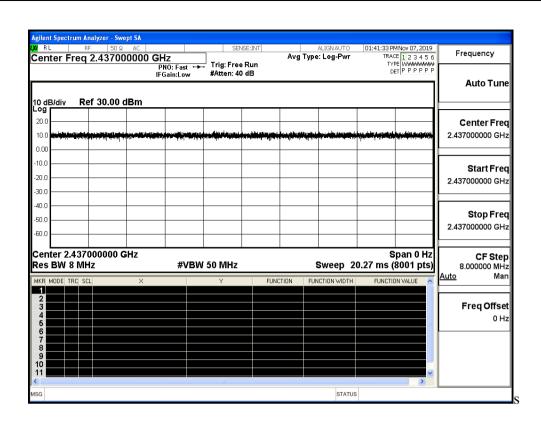




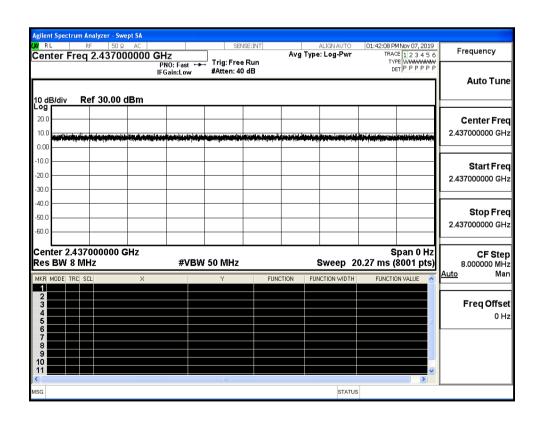








Duty Cycle_11N40_2437_Ant_2



A.2 Maximum Conducted Output Power

		Meas.Level [dBm]					
Mode	Channel	Ant_1	Ant_2	Sum	Limit [dBm]	Verdict	
	LCH	19.65	19.67	/	30	PASS	
11B	MCH	19.62	19.06	/	30	PASS	
	HCH	19.4	19.05	/	30	PASS	
	LCH	15.5	15.98	/	30	PASS	
11G	MCH	15.28	15.78	/	30	PASS	
	HCH	15.21	15.34	/	30	PASS	
	LCH	17.86	17.82	20.85	30	PASS	
11N20	MCH	17.55	17.35	20.46	30	PASS	
	HCH	17.05	17.29	20.18	30	PASS	
11N40	LCH	15.75	15.9	18.84	30	PASS	
	MCH	15.91	16.03	18.98	30	PASS	
	HCH	16.23	16.3	19.28	30	PASS	

A.3 Maximum Power Spectral Density

Ant_1

Mode	Channel	Meas.Level [dBm/30KHz]	Convert Factor	Result [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
	LCH	-0.440	-10	-10.440	8	PASS
11B	MCH	-1.198	-10	-11.198	8	PASS
	HCH	-0.648	-10	-10.648	8	PASS
	LCH	-4.473	-10	-14.473	8	PASS
11G	MCH	-4.947	-10	-14.947	8	PASS
	HCH	-8.776	-10	-18.776	8	PASS
	LCH	-4.484	-10	-14.484	8	PASS
11N20	MCH	-5.536	-10	-15.536	8	PASS
	HCH	-6.609	-10	-16.609	8	PASS
11N40	LCH	-10.292	-10	-20.292	8	PASS
	MCH	-11.072	-10	-21.072	8	PASS
	HCH	-10.622	-10	-20.622	8	PASS

^{***}Note: The Convert Factor = $10*\log(3KHz/30KHz) = -10$

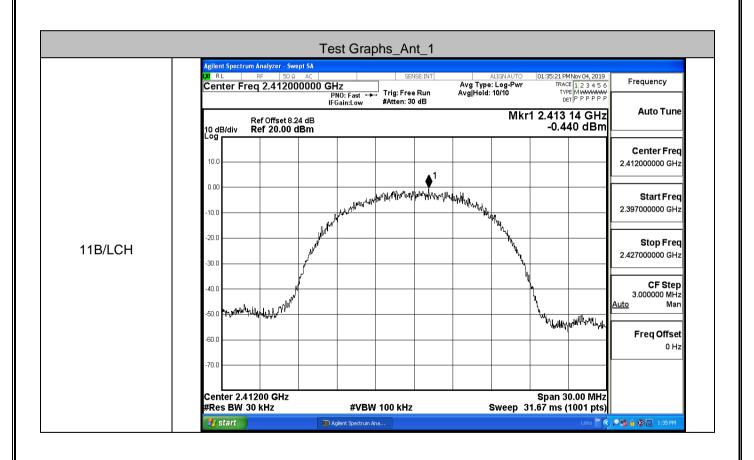
Ant 2

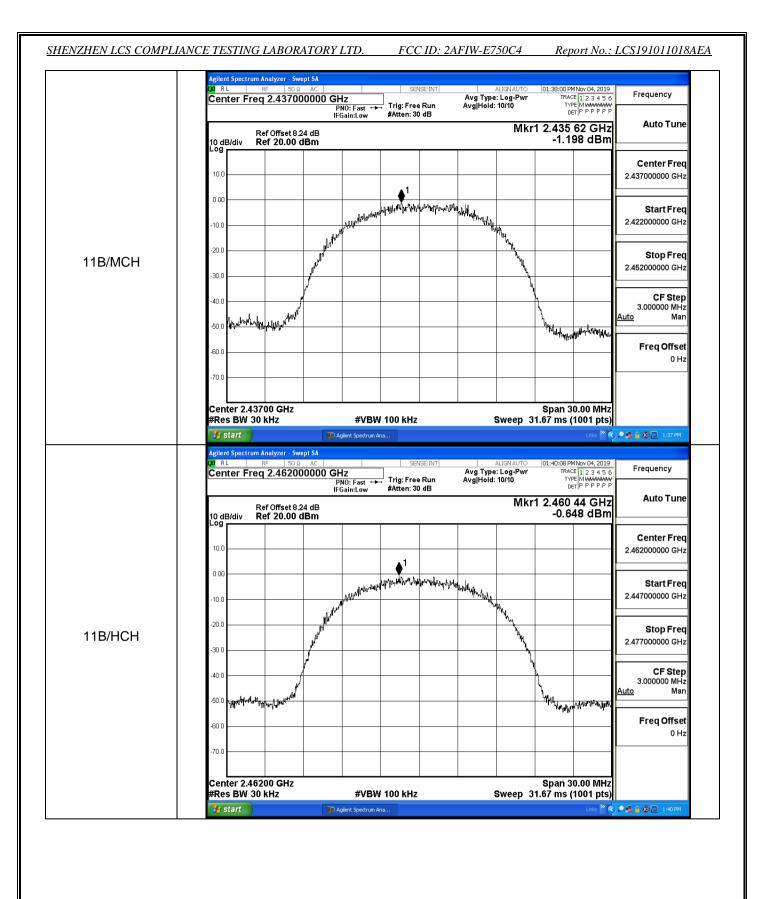
Ant_Z						
Mode	Channel	Meas.Level [dBm/30KHz]	Convert Factor	Result [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
	LCH	-0.974	-10	-10.974	8	PASS
11B	MCH	-1.463	-10	-11.463	8	PASS
	HCH	-1.504	-10	-11.504	8	PASS
	LCH	-8.149	-10	-18.149	8	PASS
11G	MCH	-8.457	-10	-18.457	8	PASS
	HCH	-8.447	-10	-18.447	8	PASS
	LCH	-5.899	-10	-15.899	8	PASS
11N20	MCH	-6.043	-10	-16.043	8	PASS
	HCH	-5.275	-10	-15.275	8	PASS
11N40	LCH	-11.226	-10	-21.226	8	PASS
	MCH	-11.320	-10	-21.320	8	PASS
	HCH	-10.563	-10	-20.563	8	PASS

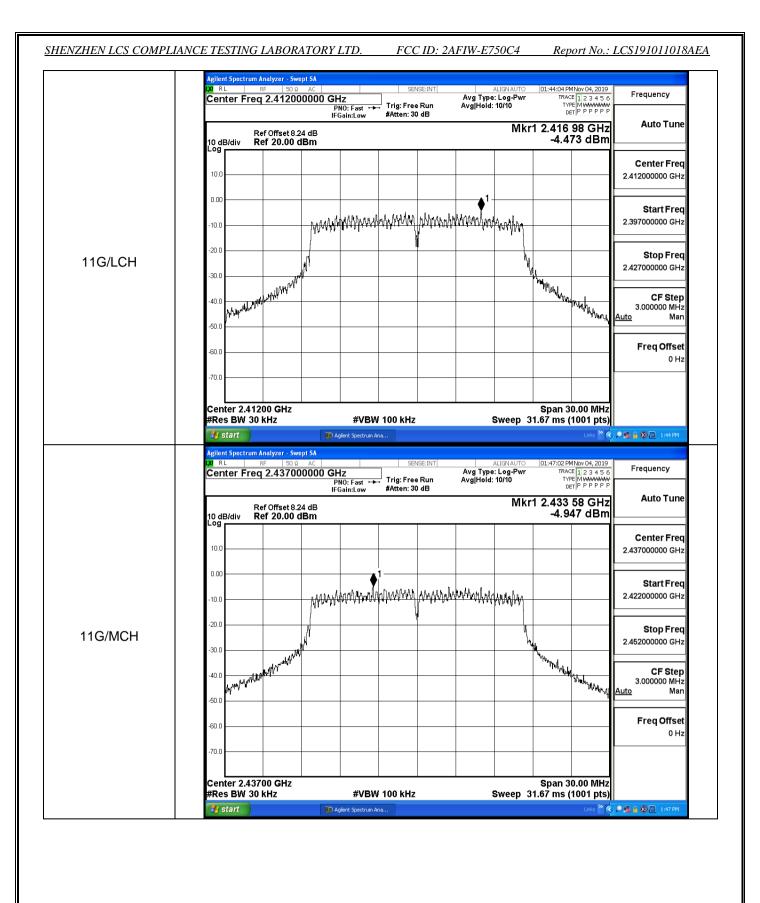
^{***}Note: The Convert Factor = $10*\log(3KHz/30KHz) = -10$

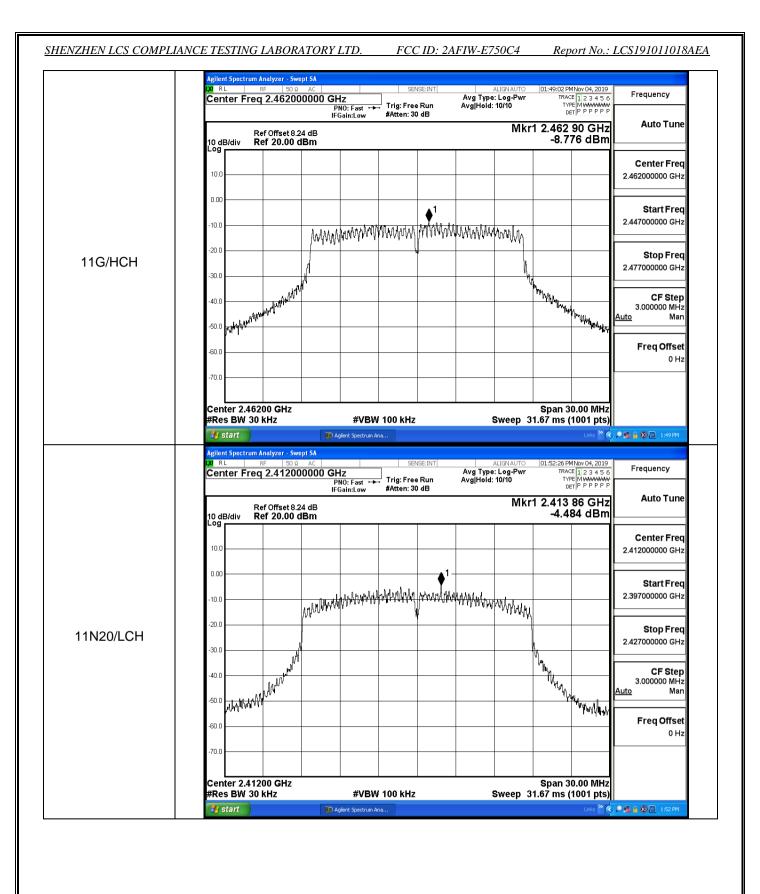
Combined Ant 1 and Ant 2

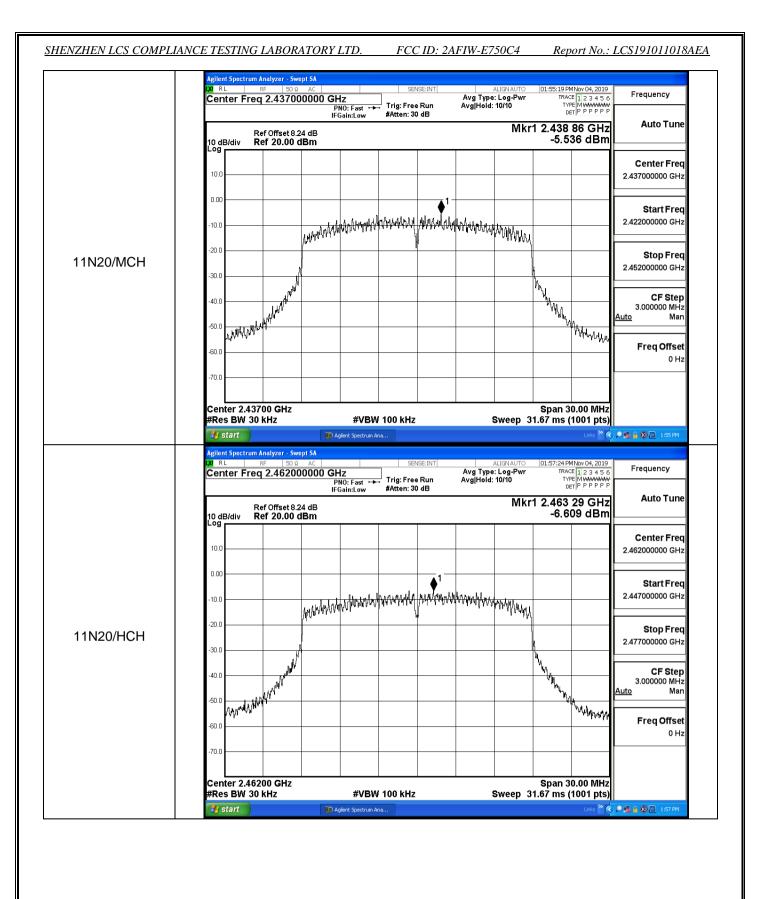
Mode	Channel	Result [dBm/3KHz]			Limit	Verdict
		Ant_1	Ant_2	Sum	[dBm/3KHz]	
	LCH	-14.484	-15.899	-12.124	5.99	PASS
11N20	MCH	-15.536	-16.043	-12.772	5.99	PASS
	HCH	-16.609	-15.275	-12.881	5.99	PASS
	LCH	-20.292	-21.226	-17.724	5.99	PASS
11N40	MCH	-21.072	-21.320	-18.184	5.99	PASS
	НСН	-20.622	-20.563	-17.582	5.99	PASS

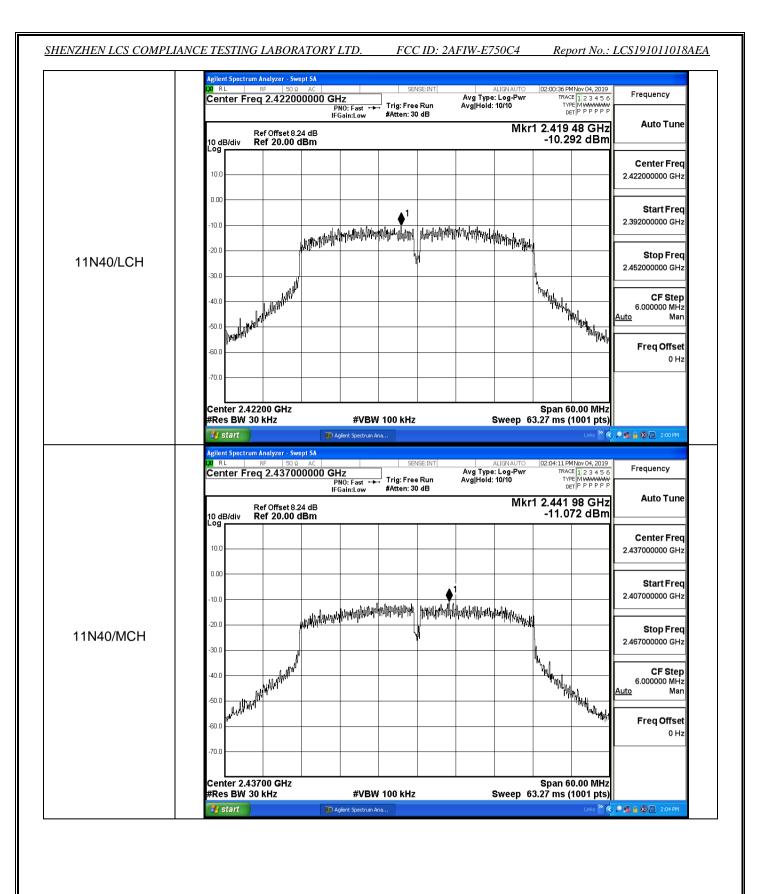






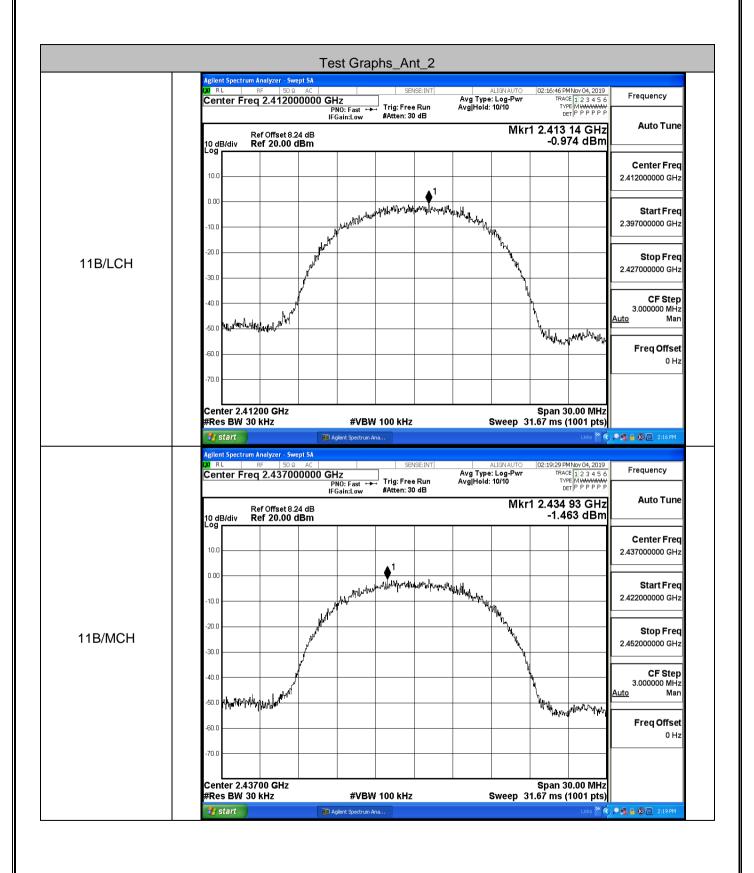


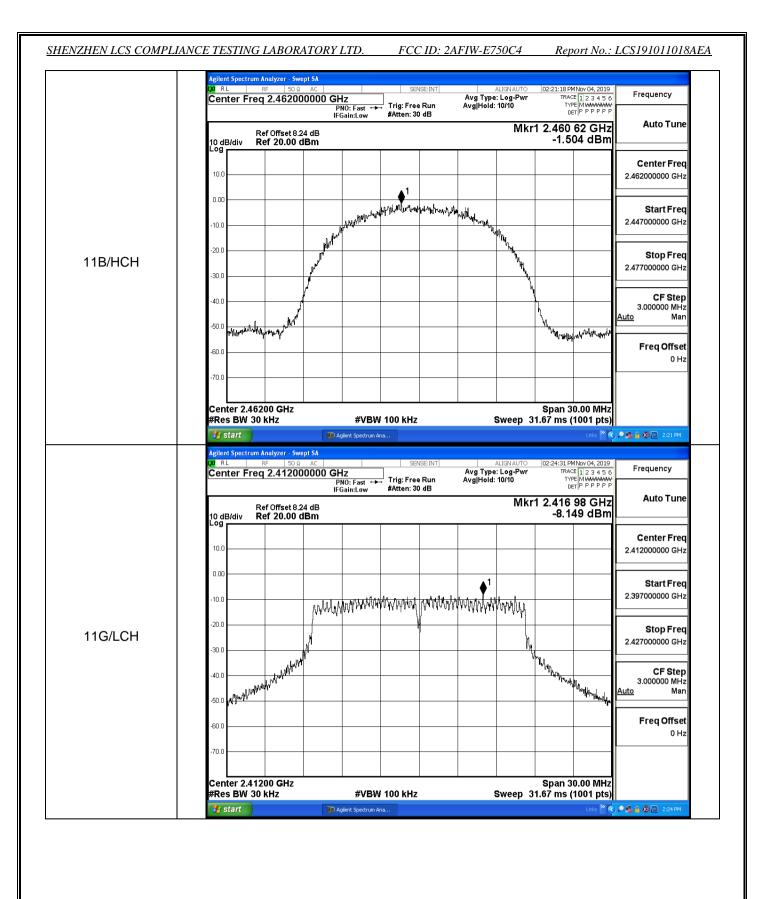


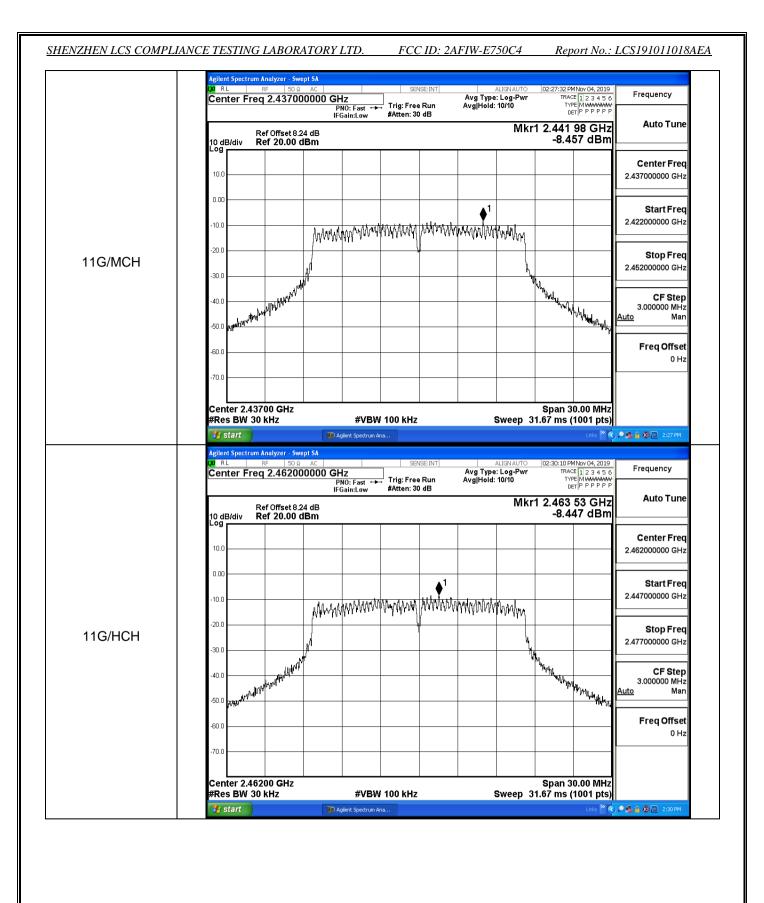


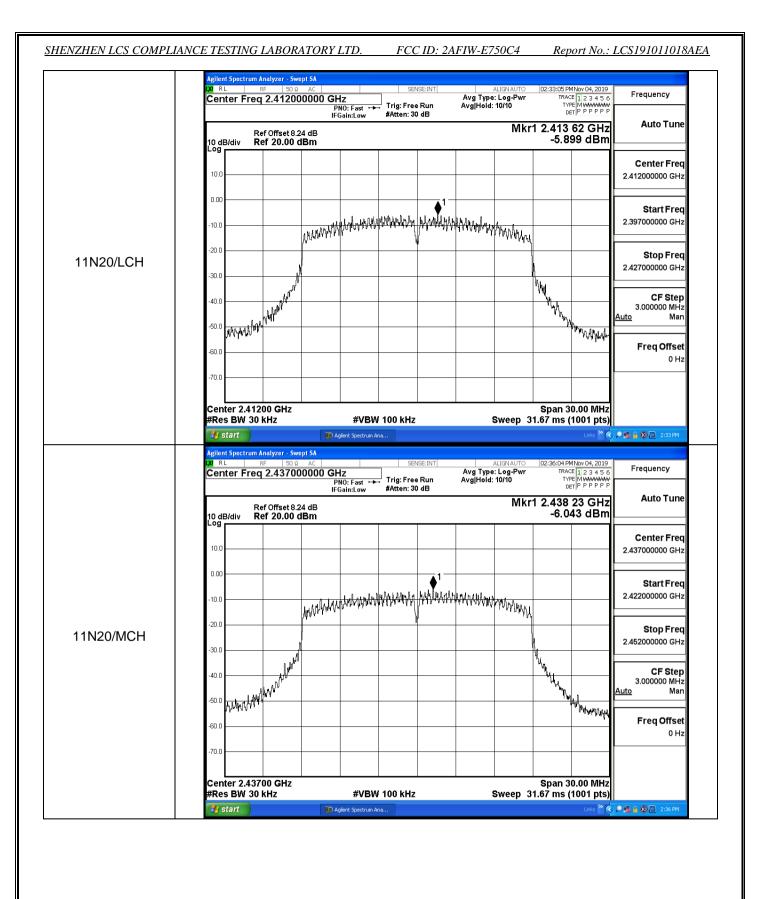
#VBW 100 kHz

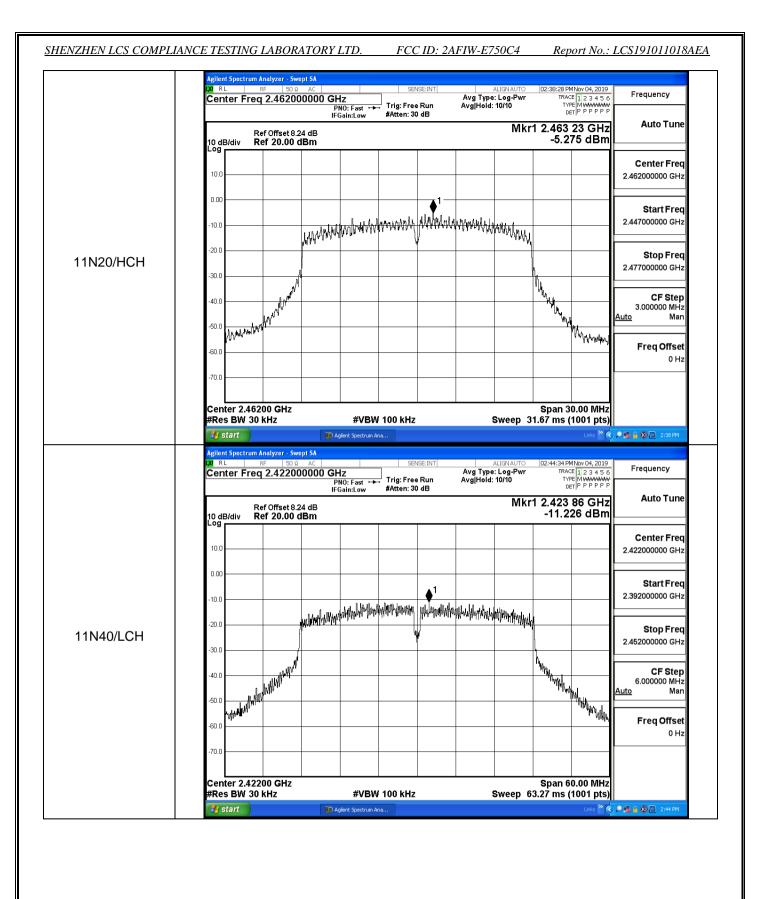
🎒 start

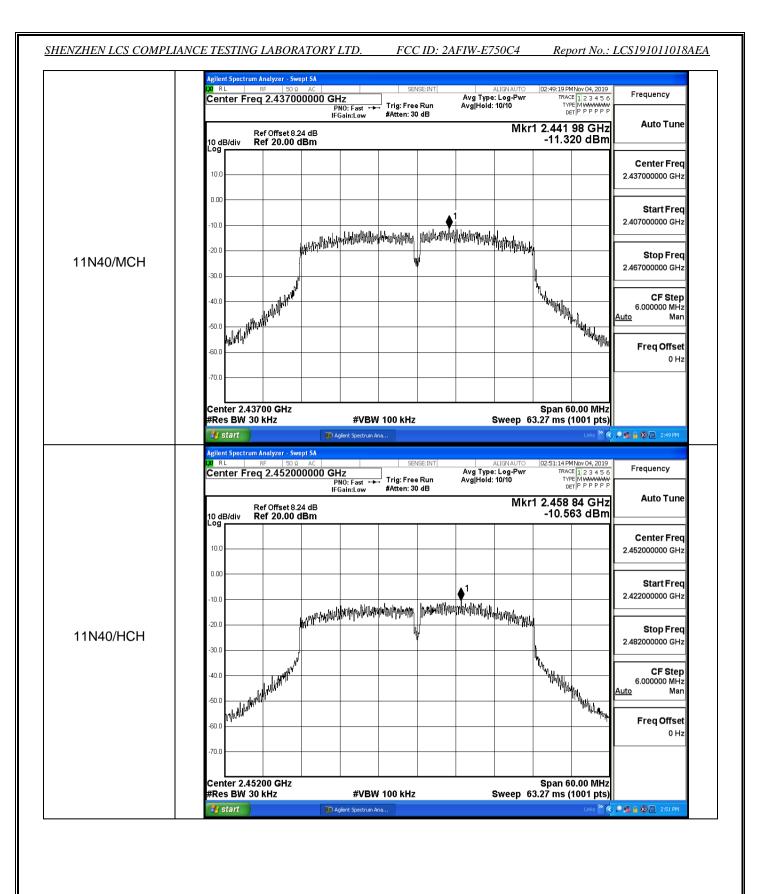






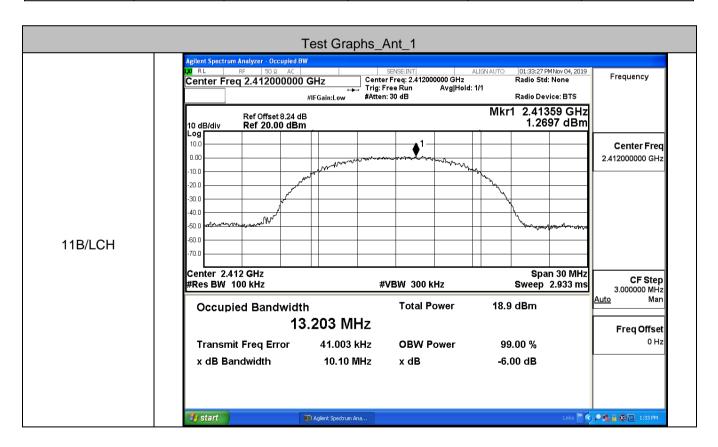


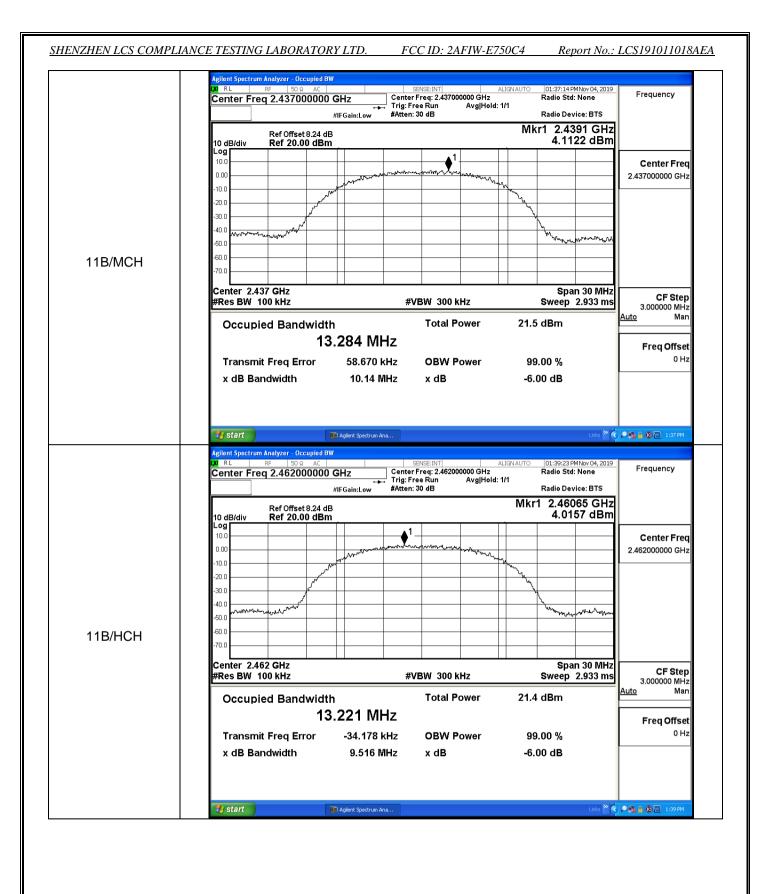


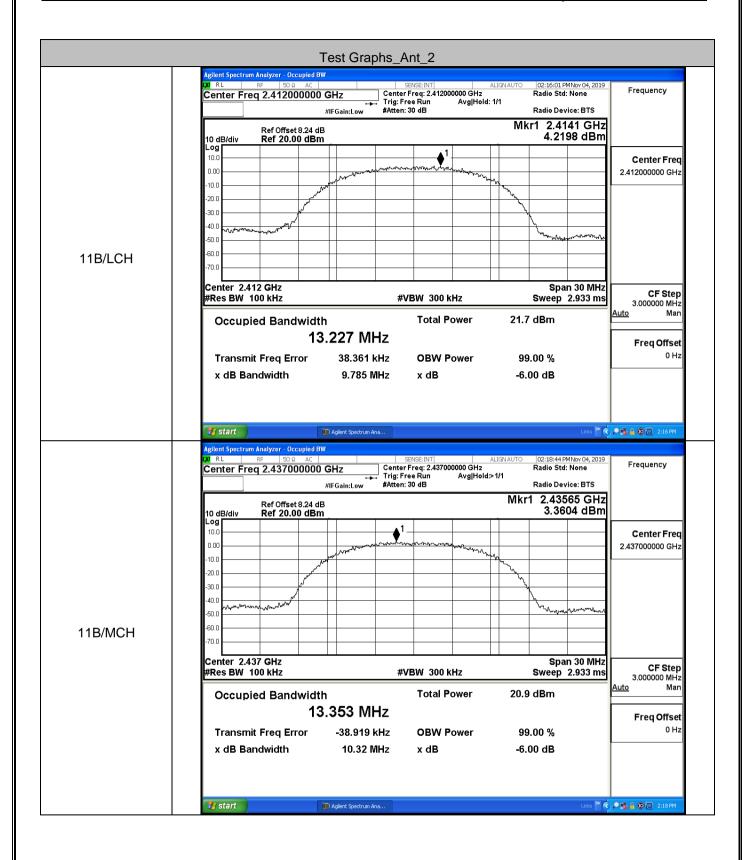


A.4 6dB Bandwidth

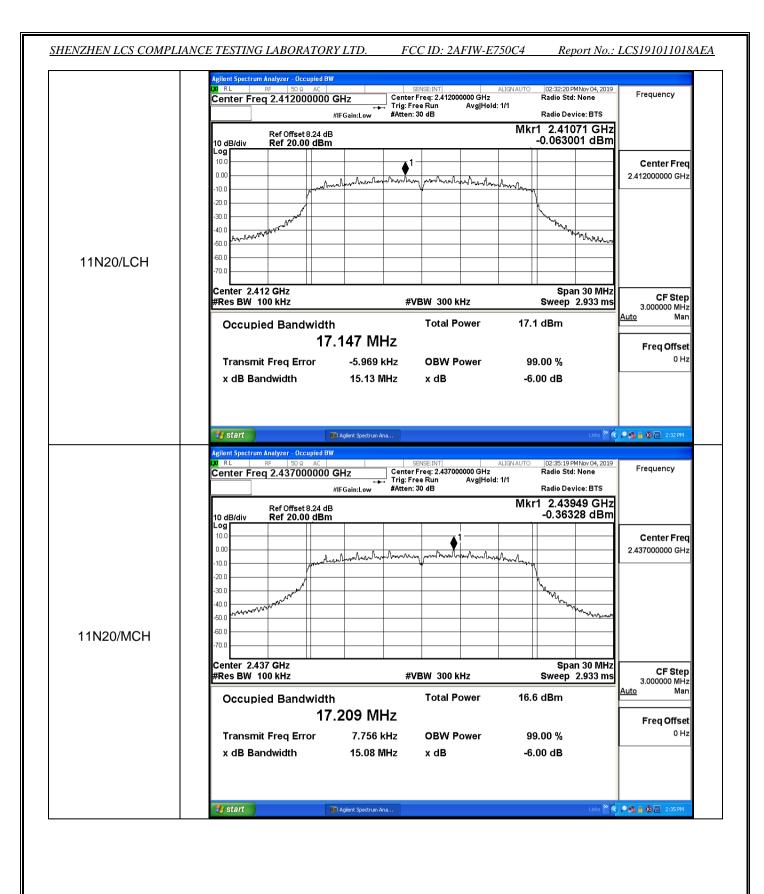
		6dB Bandw	vidth [MHz]			
Mode	Channel	Ant_1	Ant_2	Limit [MHz]	Verdict	
	LCH	10.10	9.785	≥0.5	PASS	
11B	MCH	10.14	10.32	≥0.5	PASS	
	HCH	9.516	10.30	≥0.5	PASS	
	LCH	16.42	16.35	≥0.5	PASS	
11G	MCH	16.45	16.40	≥0.5	PASS	
	HCH	16.28	16.33	≥0.5	PASS	
	LCH	15.12	15.13	≥0.5	PASS	
11N20	MCH	15.09	15.08	≥0.5	PASS	
	HCH	15.09	15.04	≥0.5	PASS	
11N40	LCH	35.05	31.39	≥0.5	PASS	
	MCH	33.84	35.07	≥0.5	PASS	
	HCH	33.87	35.07	≥0.5	PASS	











A.5 RF Conducted Spurious Emissions

Ant_1

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	3.559	-37.974	-16.441	PASS
11B	MCH	3.715	-37.179	-16.285	PASS
	НСН	3.917	-19.114	-16.083	PASS
	LCH	-0.233	-20.417	-20.233	PASS
11G	MCH	-0.256	-37.588	-20.256	PASS
	НСН	-3.688	-37.249	-23.688	PASS
	LCH	-0.287	-37.413	-20.287	PASS
11N20	MCH	-0.289	-37.745	-20.289	PASS
	НСН	-0.398	-37.523	-20.398	PASS
	LCH	-4.313	-38.020	-24.313	PASS
11N40	MCH	-5.239	-37.876	-25.239	PASS
	НСН	-5.062	-37.240	-25.062	PASS

