Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Portable 4G LTE Router Test Model: GL-E750C6

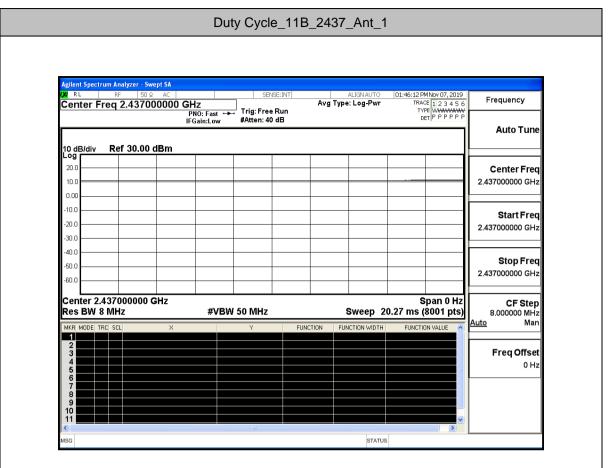
Environmental Conditions

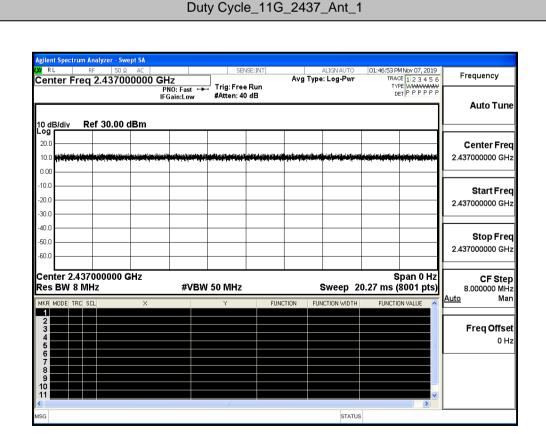
Temperature:	22.6°C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Wang Chuang

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

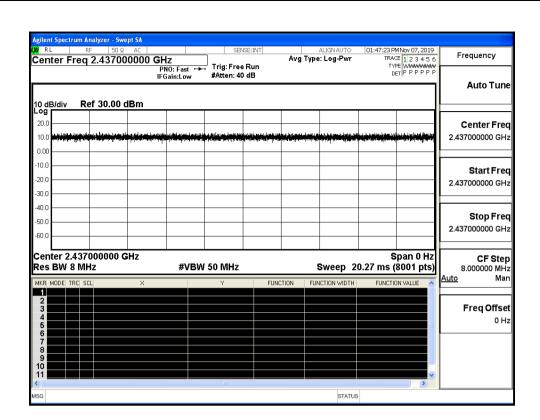
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant_2	100	PASS
11G	2437	Ant_2	100	PASS
11N20	2437	Ant_2	100	PASS
11N40	2437	Ant_2	100	PASS



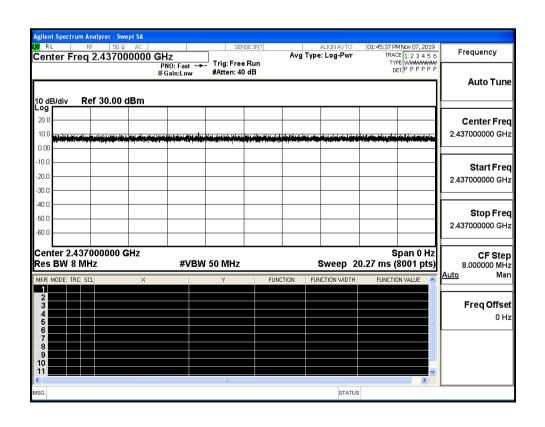


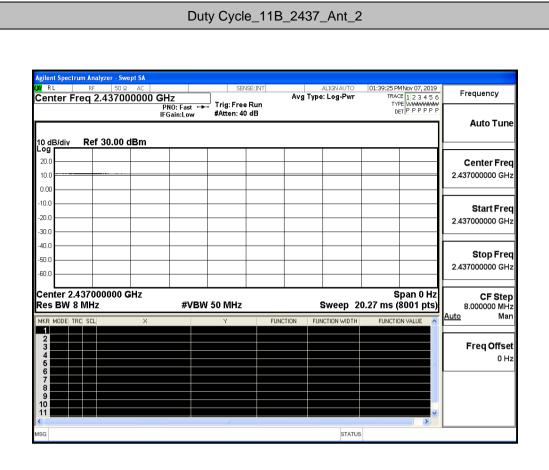
Page 2 of 88

Duty Cycle_11N20_2437_Ant_1

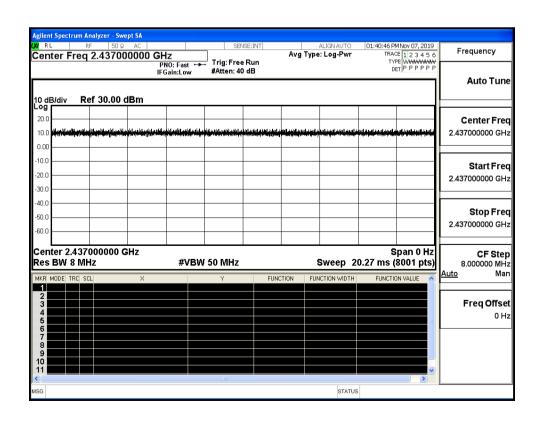


Duty Cycle_11N40_2437_Ant_1

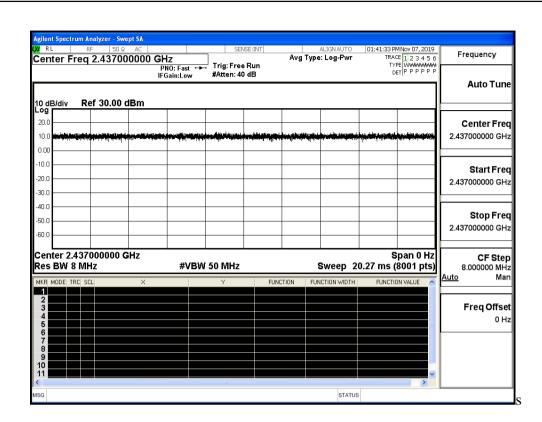








Duty Cycle_11N20_2437_Ant_2



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
	НСН	-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 = $10*\log(3KHz/30KHz) = -10$

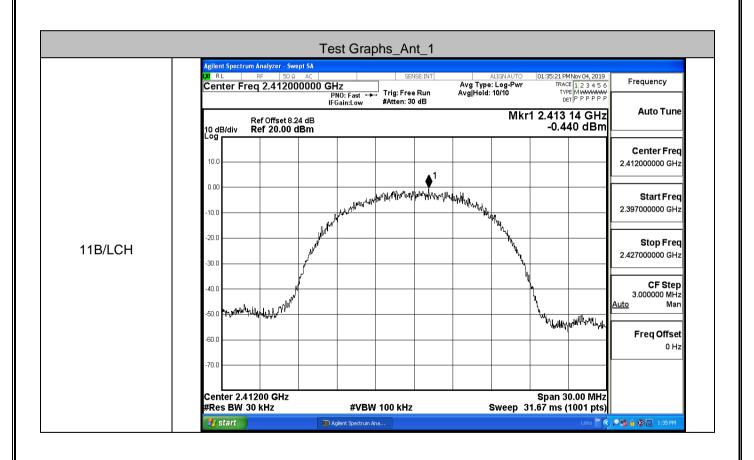
Ant 2

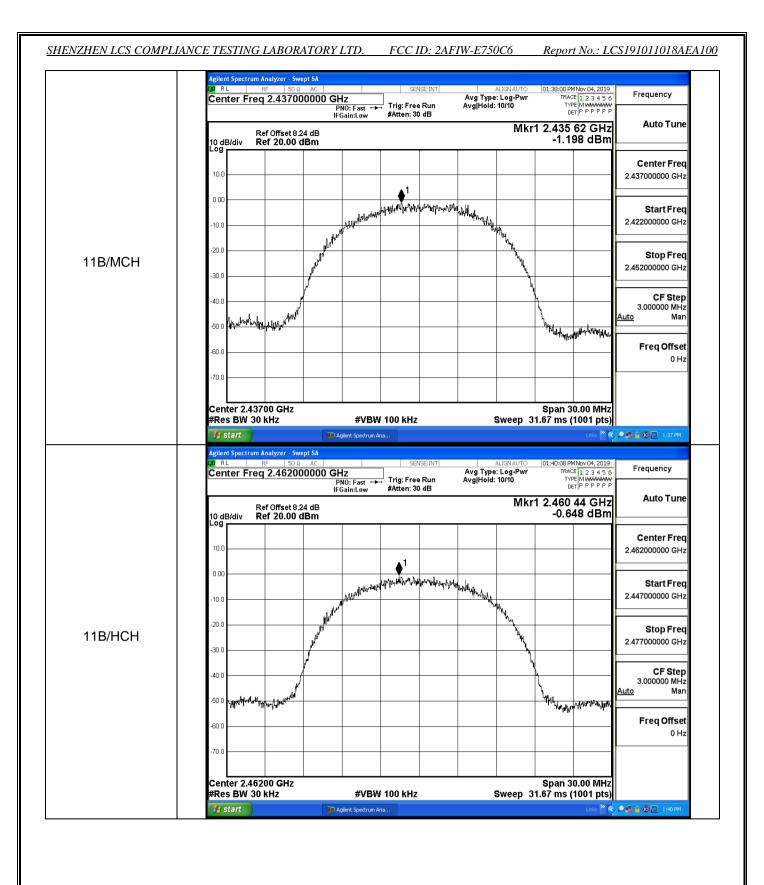
Ant_z						
Mode	Channel	Meas.Level [dBm/30KHz]	Convert Factor	Result [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
	LCH	-0.974	-10	-10.974	8	PASS
11B	MCH	-1.463	-10	-11.463	8	PASS
	НСН	-1.504	-10	-11.504	8	PASS
	LCH	-8.149	-10	-18.149	8	PASS
11G	MCH	-8.457	-10	-18.457	8	PASS
	НСН	-8.447	-10	-18.447	8	PASS
	LCH	-5.899	-10	-15.899	8	PASS
11N20	MCH	-6.043	-10	-16.043	8	PASS
	НСН	-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

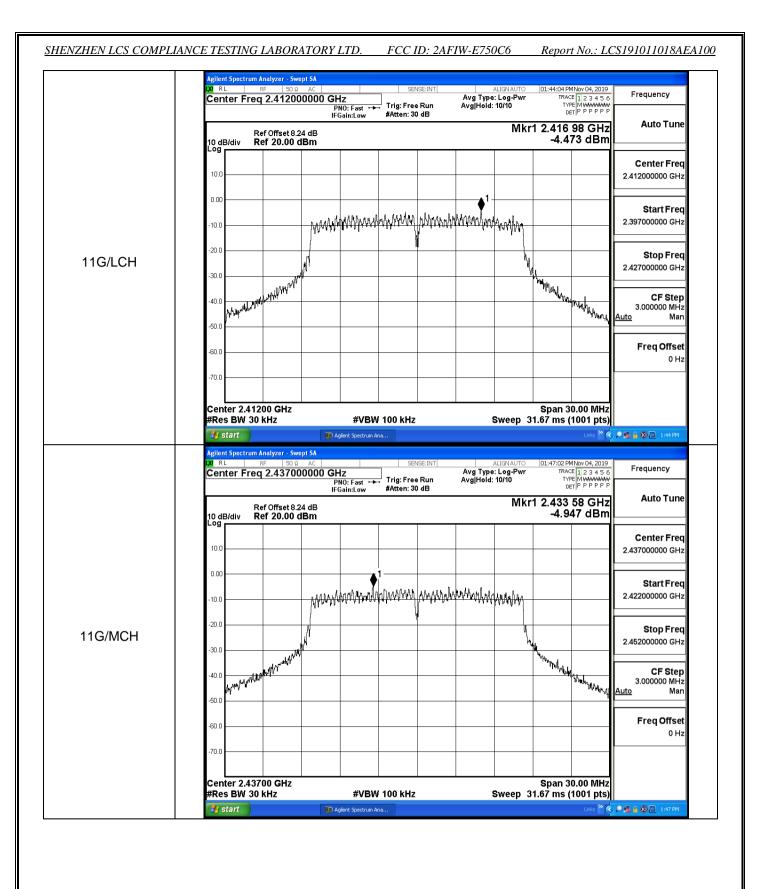
^{***}Note: The Convert Factor = 10*log(3KHz/30KHz) = -10

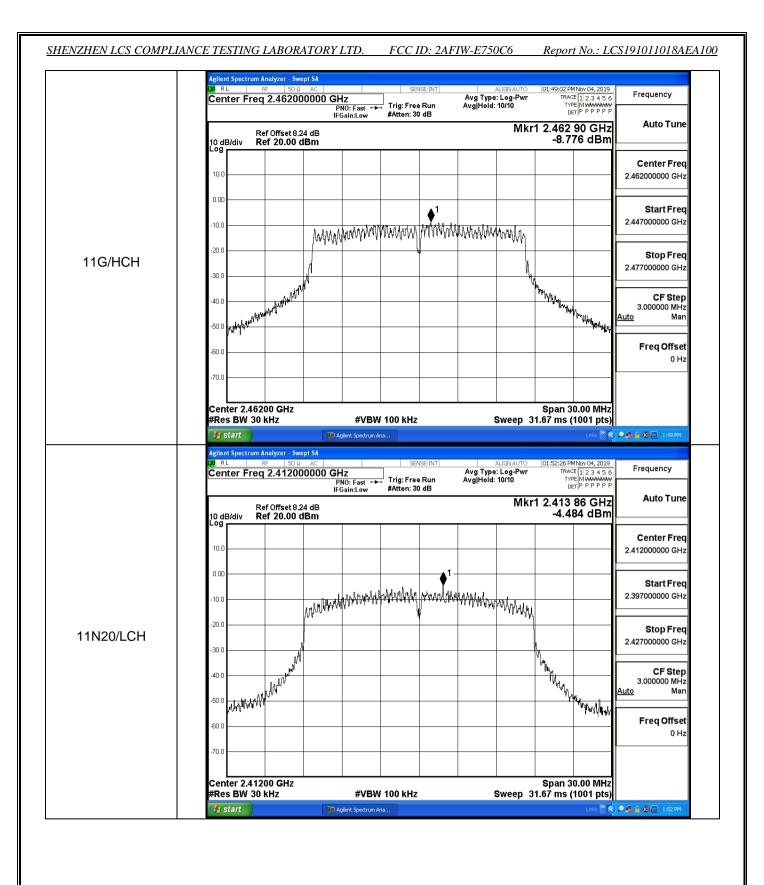
Combined Ant 1 and Ant 2

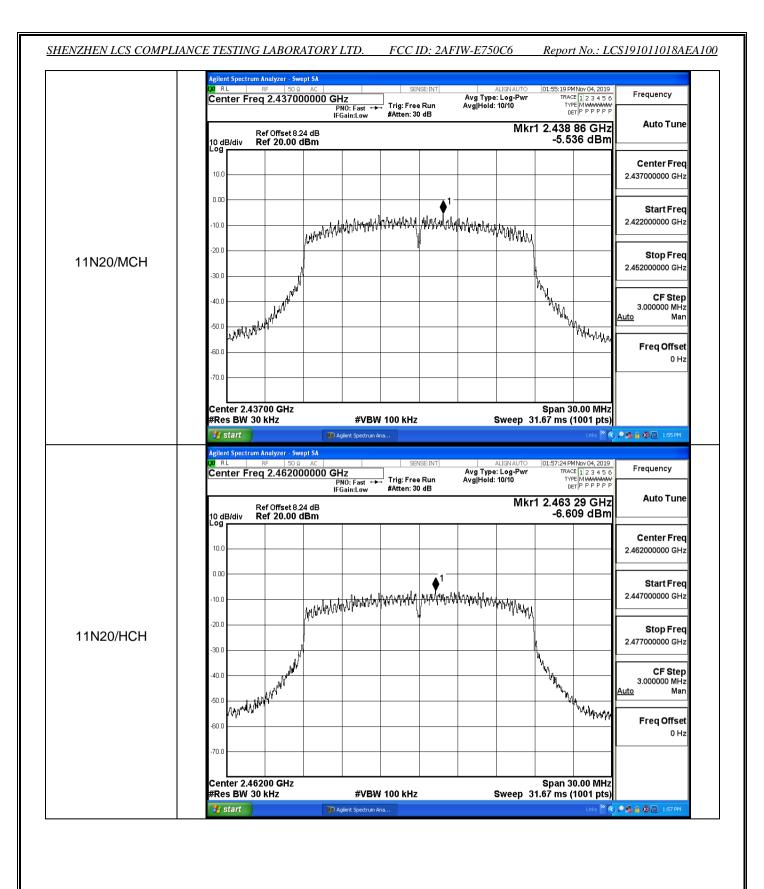
Mode	Channel	Result [dBm/3KHz]			Limit	Verdict
		Ant_1	Ant_2	Sum	[dBm/3KHz]	
	LCH	-14.484	-15.899	-12.124	8	PASS
11N20	МСН	-15.536	-16.043	-12.772	8	PASS
	НСН	-16.609	-15.275	-12.881	8	PASS
	LCH	-20.292	-21.226	-17.724	8	PASS
11N40	MCH	-21.072	-21.320	-18.184	8	PASS
	НСН	-20.622	-20.563	-17.582	8	PASS

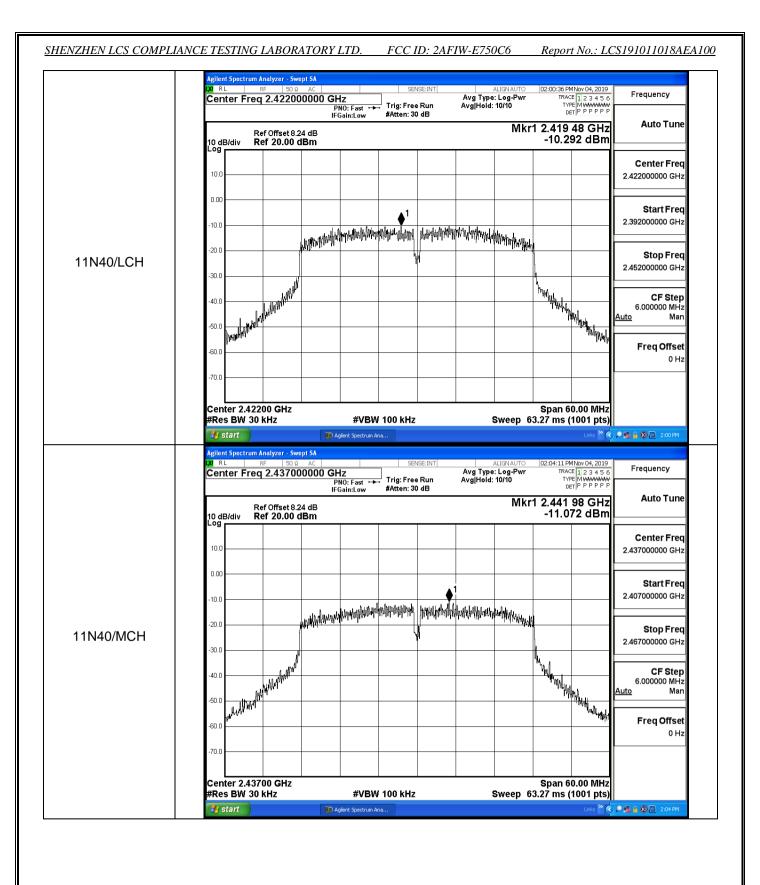












SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AFIW-E750C6 Report No.: LCS191011018AEA100 Avg Type: Log-Pwr Avg|Hold: 10/10 Frequency Center Freq 2.452000000 GHz PNO: Fast →→ IFGain:Low Trig: Free Run #Atten: 30 dB Auto Tune Mkr1 2.448 88 GHz Ref Offset 8.24 dB Ref 20.00 dBm -10.622 dBm 10 dB/div Log Center Freq 10.0 2.452000000 GHz 0.00 Start Freq 2.422000000 GHz -10.0 Marting to the state of the sta -20.0 Stop Freq 11N40/HCH 2.482000000 GHz The work of the land of the la balland with the properties of -30.0 **CF Step** 6.000000 MHz -40.0 Man <u>Auto</u> -50.0 Freq Offset -60.0

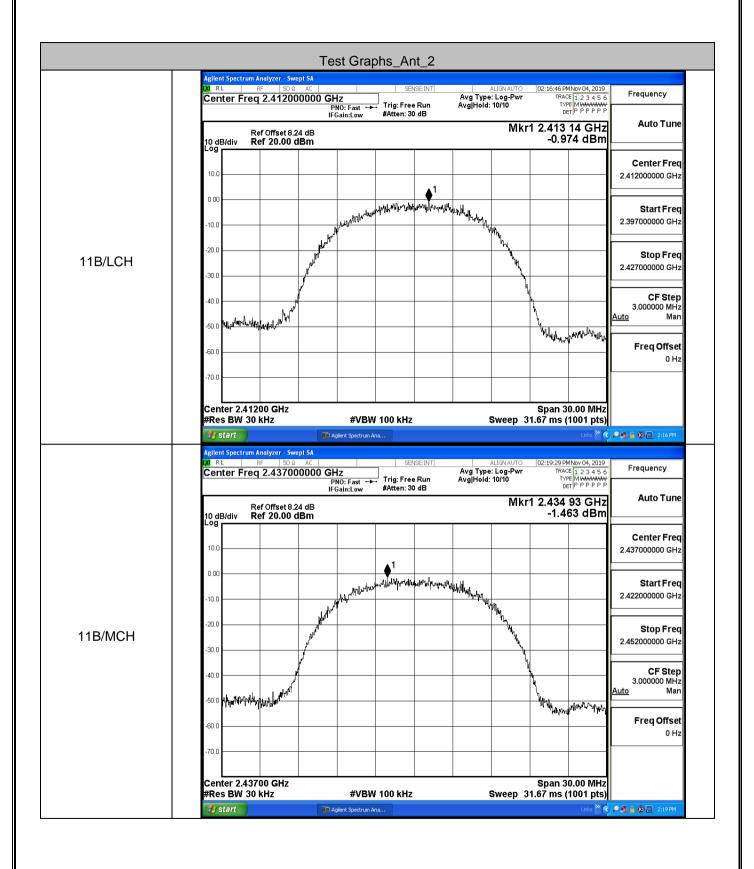
#VBW 100 kHz

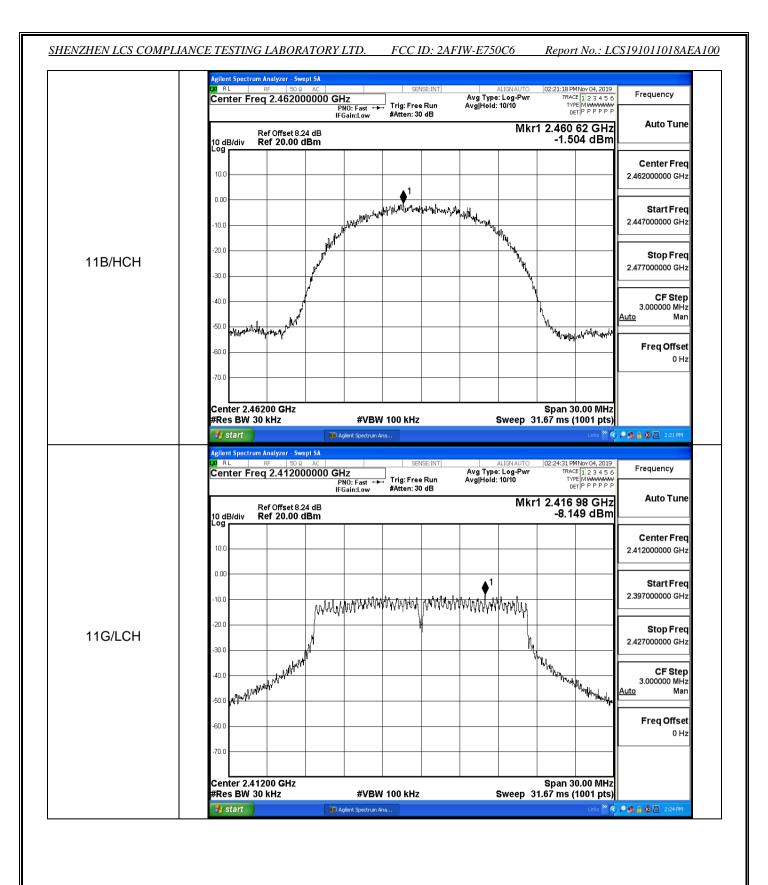
Span 60.00 MHz Sweep 63.27 ms (1001 pts)

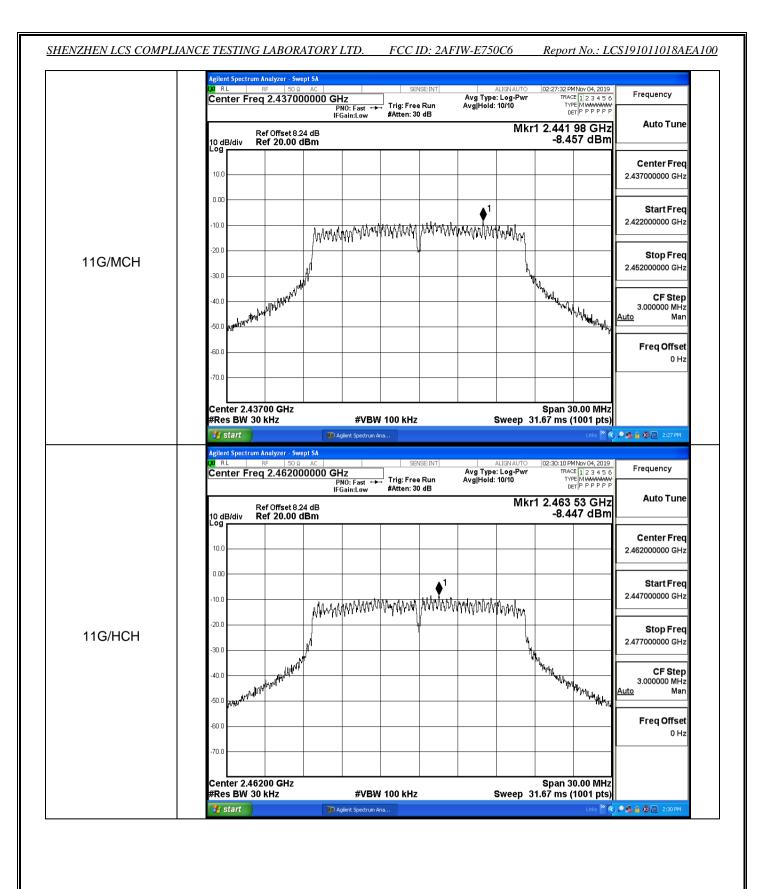
-70.0

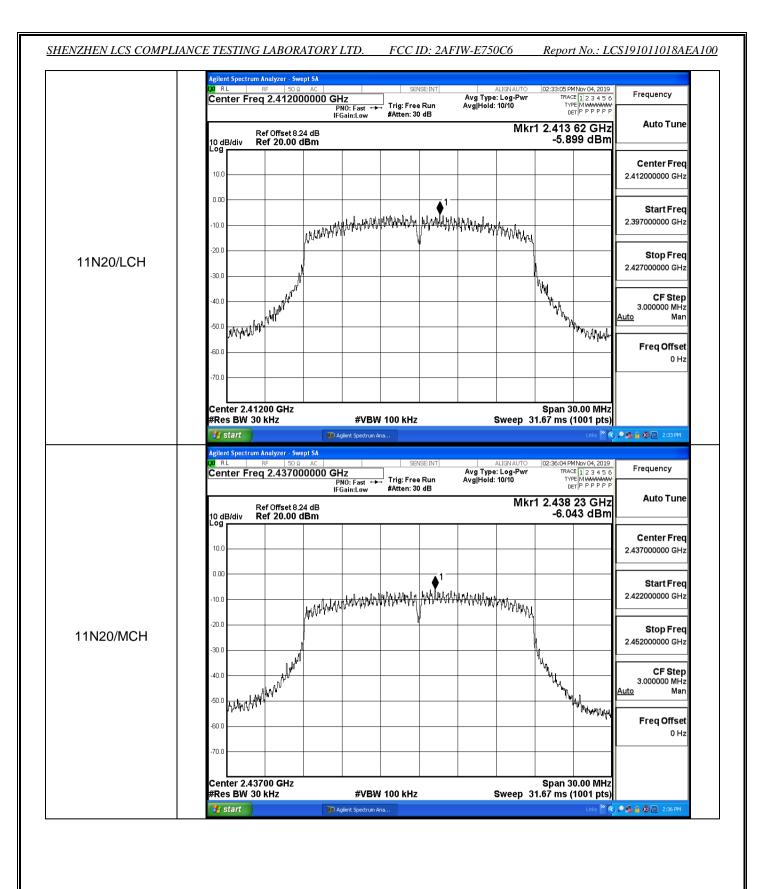
🎒 start

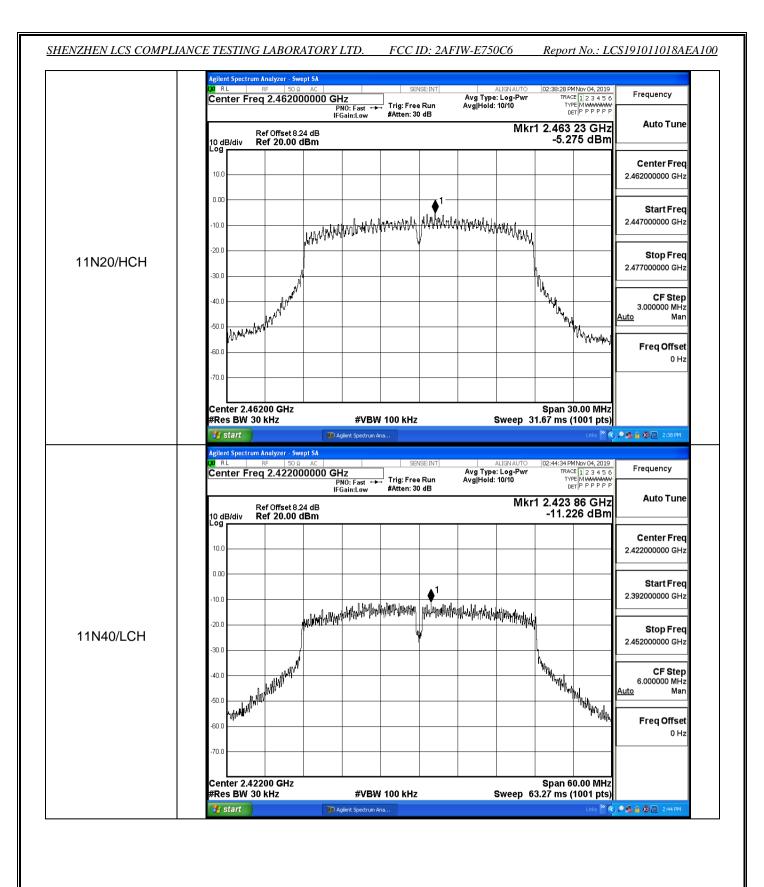
Center 2.45200 GHz #Res BW 30 kHz

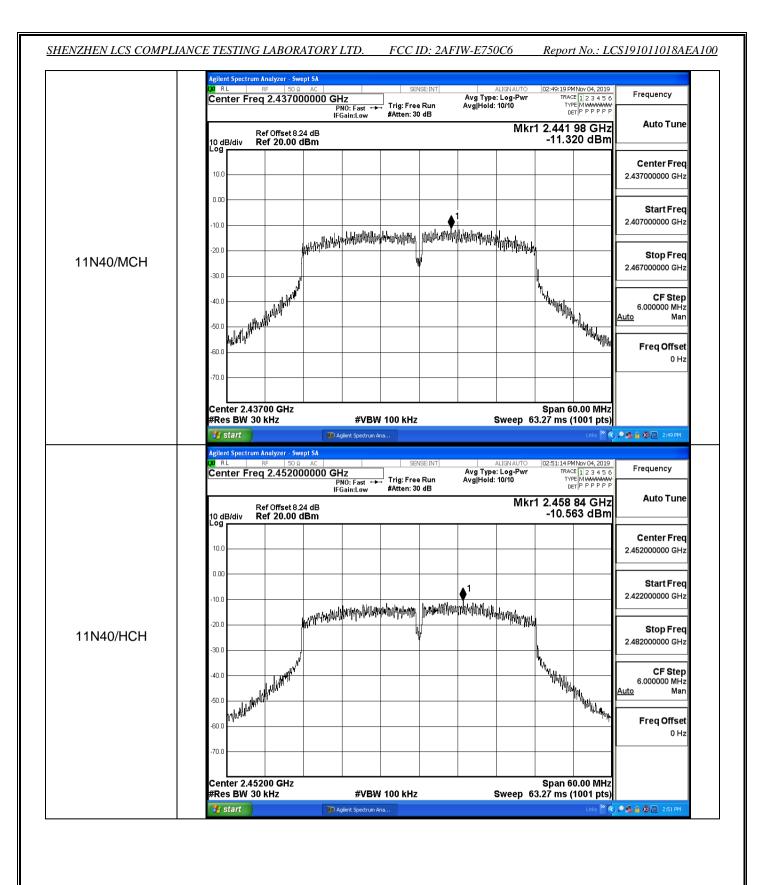






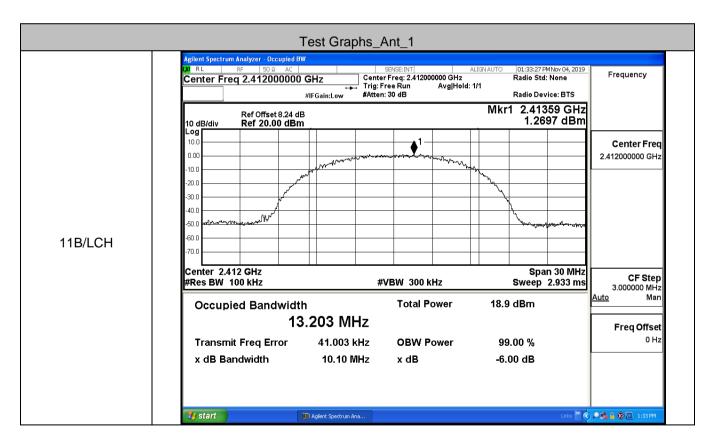


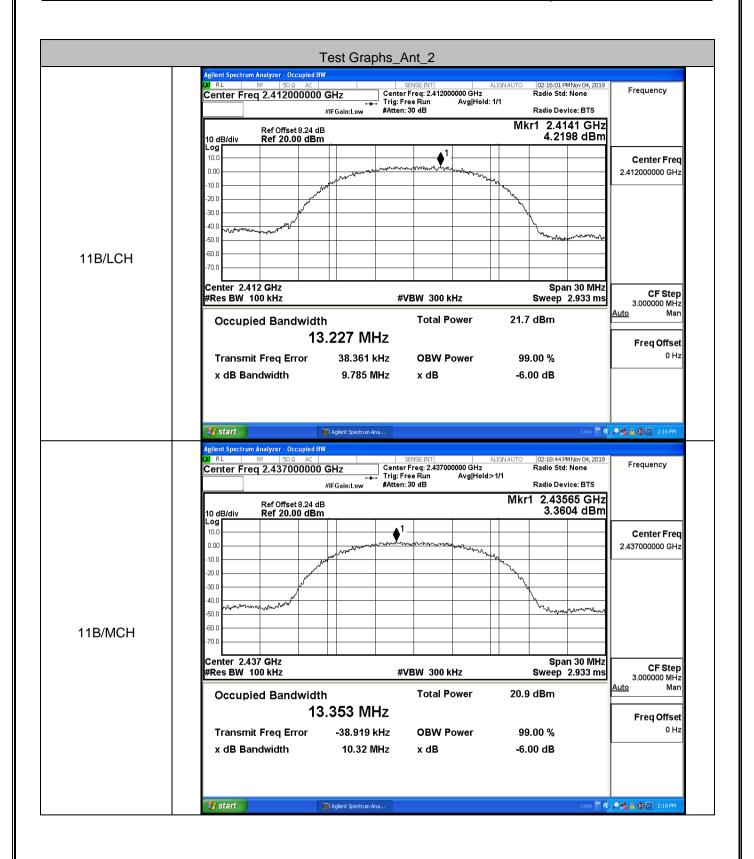




A.4 6dB Bandwidth

		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	МСН	3.715	-37.179	-16.285	PASS
	HCH	3.917	-19.114	-16.083	PASS
	LCH	-0.233	-20.417	-20.233	PASS
11G	MCH	-0.256	-37.588	-20.256	PASS
	HCH	-3.688	-37.249	-23.688	PASS
	LCH	-0.287	-37.413	-20.287	PASS
11N20	MCH	-0.289	-37.745	-20.289	PASS
	HCH	-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

