Appendix A

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

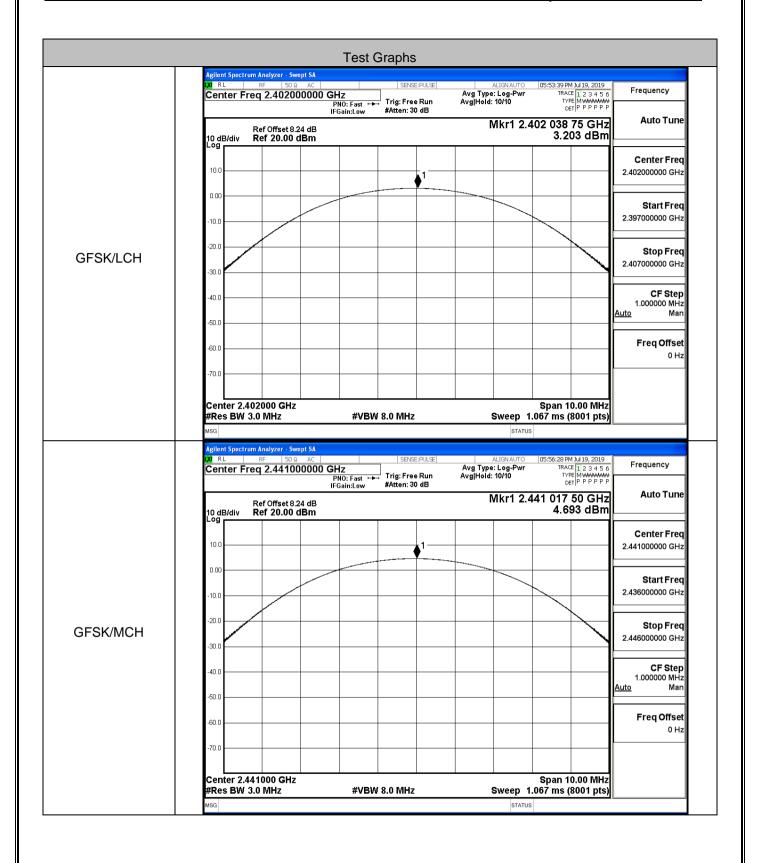
Product Name: Urbanista Sydney
Trade Mark: Urbanista
Test Model: Urbanista Sydney

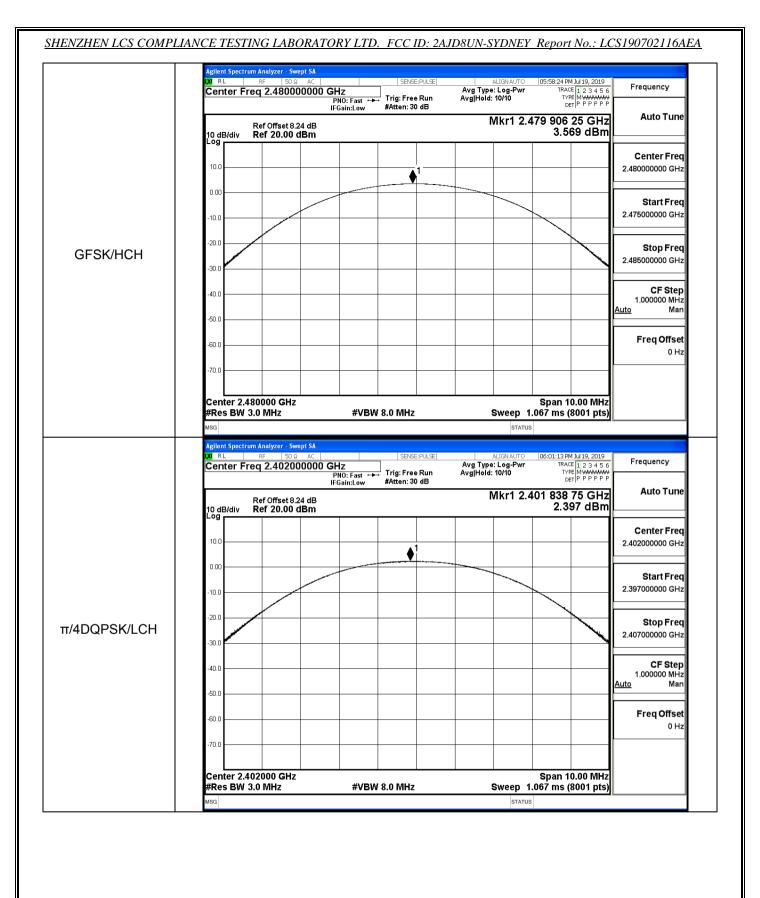
Environmental Conditions

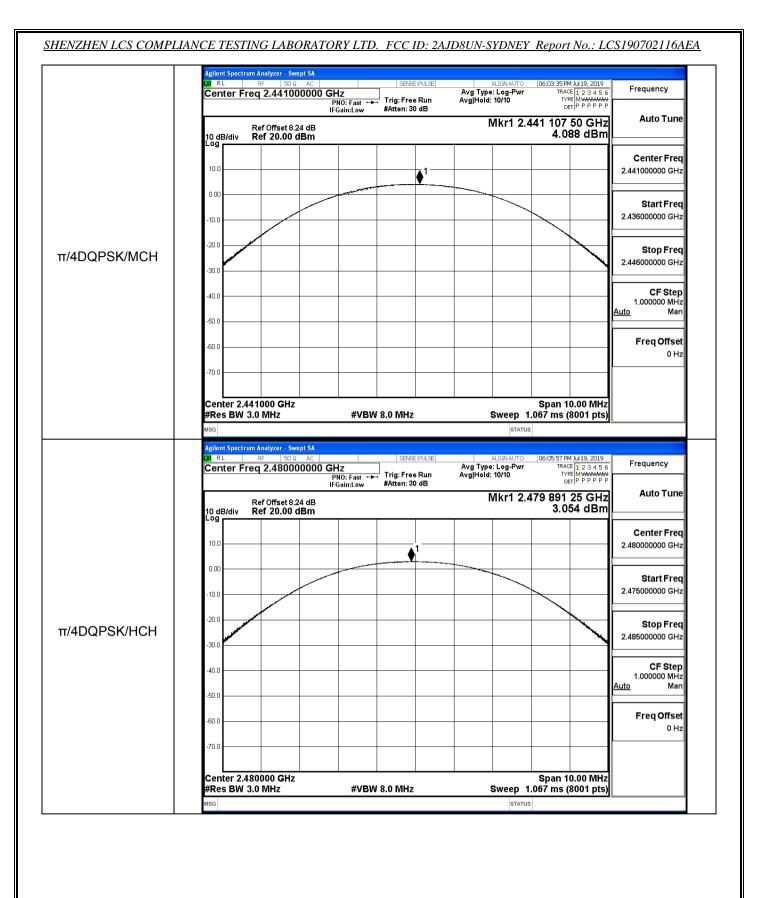
Temperature:	23.9 ° C
Relative Humidity:	52.9%
ATM Pressure:	100.0 kPa
Test Engineer:	JERRY ZENG
Supervised by:	Wang.Chuang

A.1 Maxmum Conducted Peak Output Power

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	3.203	30	PASS
GFSK	MCH	4.693	30	PASS
	НСН	3.569	30	PASS
	LCH	2.397	21	PASS
π/4DQPSK	MCH	4.088	21	PASS
	НСН	3.054	21	PASS

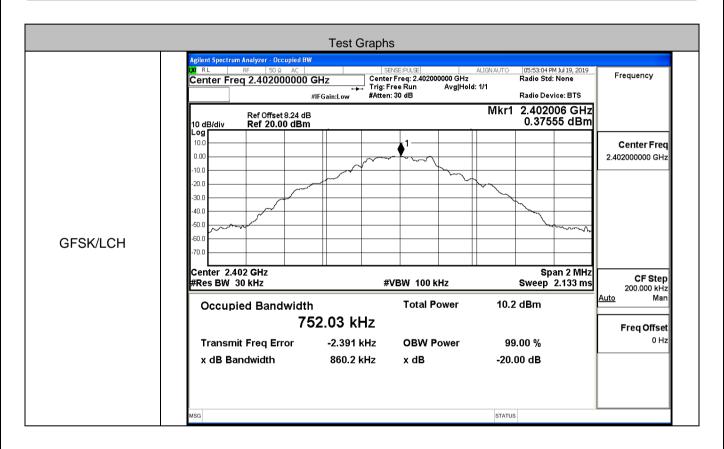


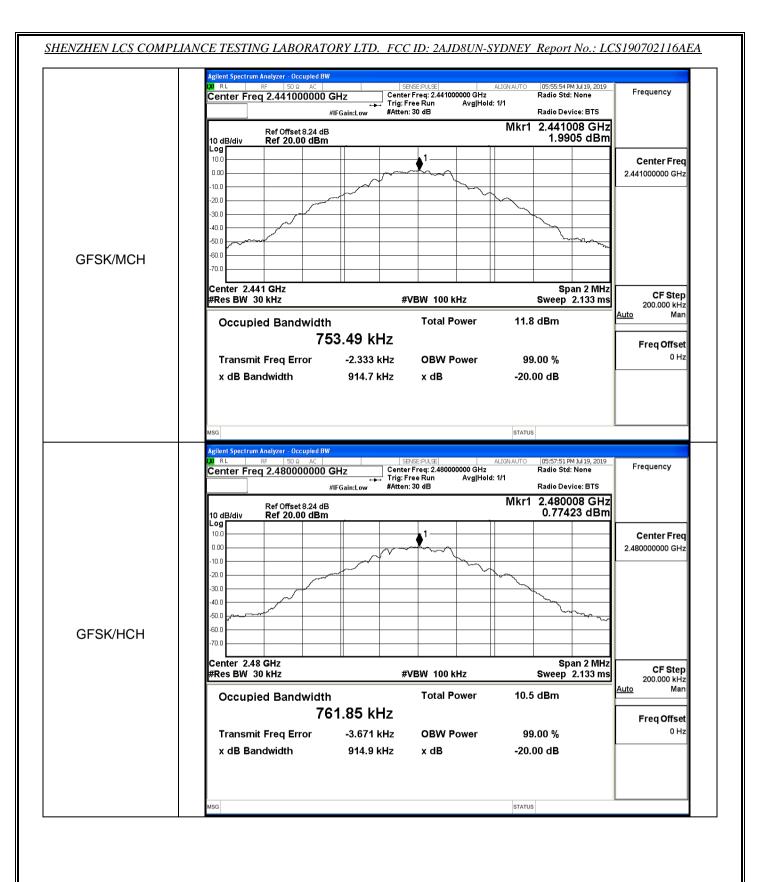


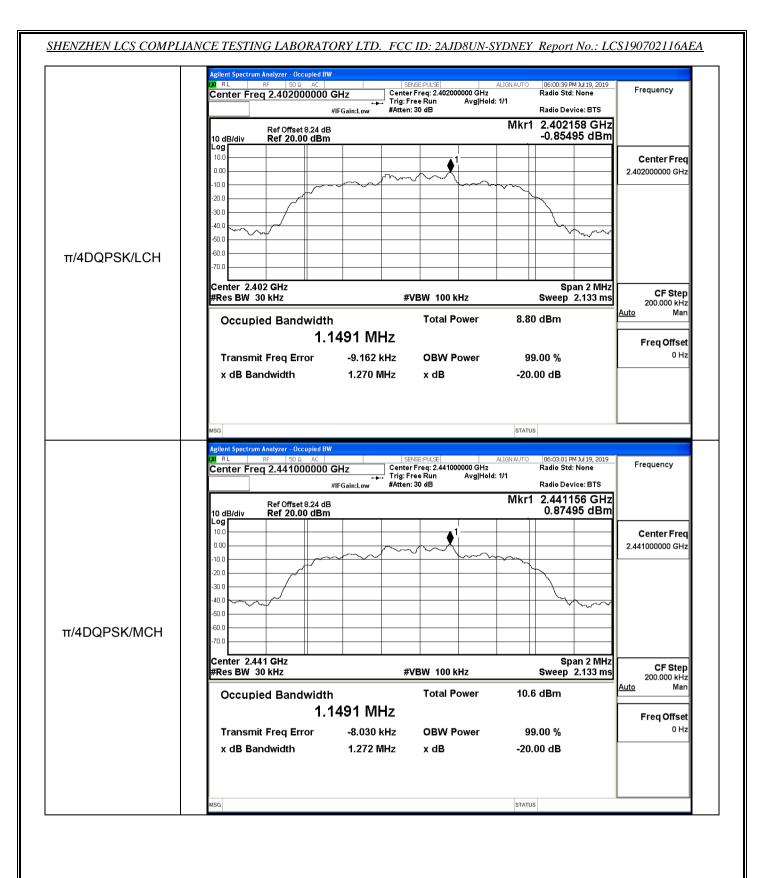


A.2 20dB Bandwidth

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	0.8602	Not Specified	PASS
GFSK	MCH	0.9147	Not Specified	PASS
	HCH	0.9149	Not Specified	PASS
	LCH	1.270	Not Specified	PASS
π/4DQPSK	/4DQPSK MCH 1.27		Not Specified	PASS
	HCH	1.273	Not Specified	PASS



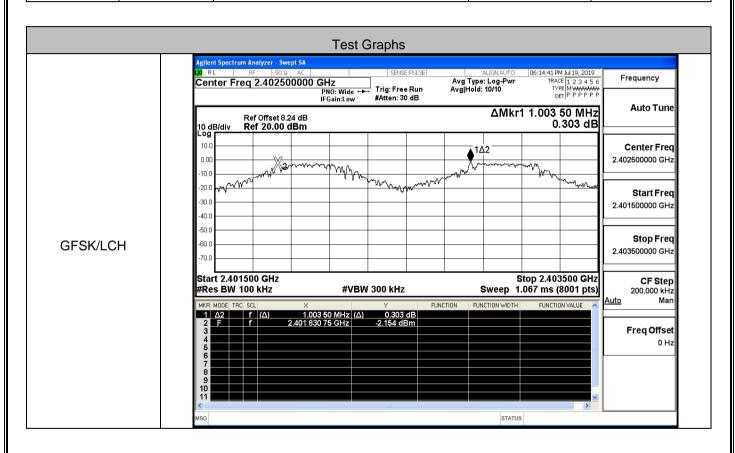


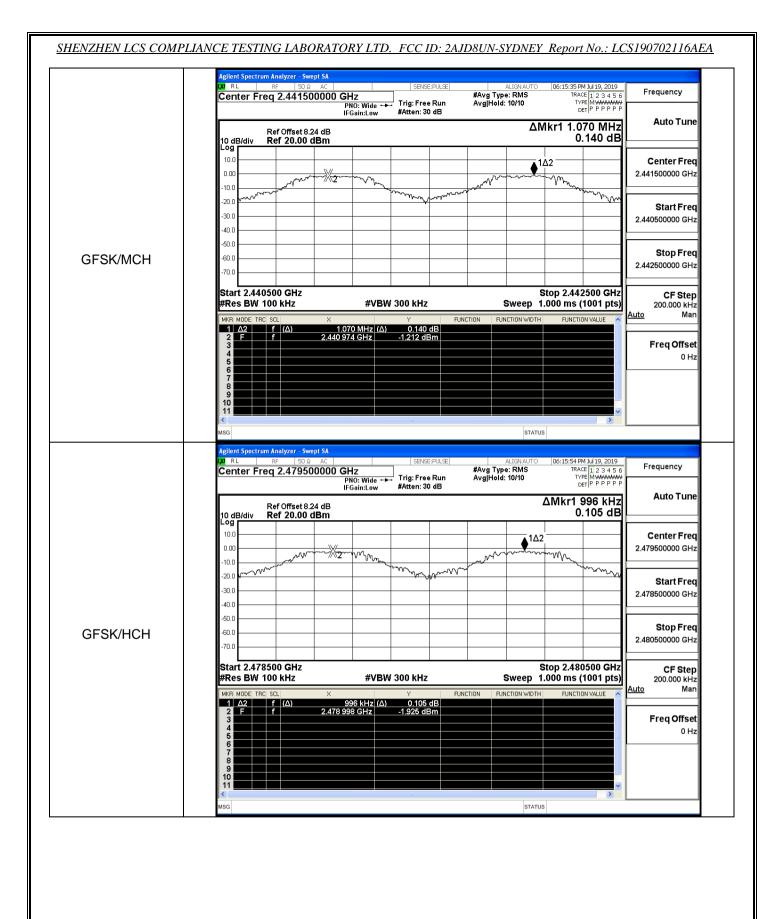


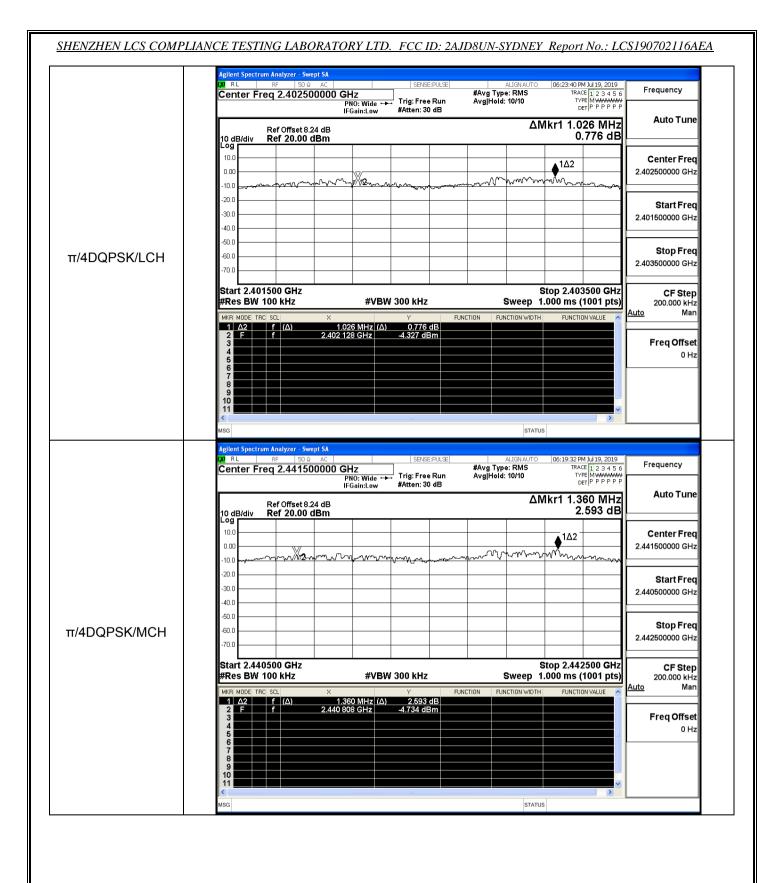
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AJD8UN-SYDNEY Report No.: LCS190702116AEA 06:05:23 PM Jul 19, 2019 Radio Std: None SENGE:PULSE ALIGN AUTO Center Freq: 2.480000000 GHz Trig: Free Run Avg|Hold: 1/1 #Atten: 30 dB Frequency #IFGain:Low Radio Device: BTS 2.480156 GHz -0.30117 dBm Mkr1 Ref Offset 8.24 dB Ref 20.00 dBm 10 dB/div 10.0 Center Freq 0.00 2.480000000 GHz -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 π/4DQPSK/HCH Center 2.48 GHz #Res BW 30 kHz Span 2 MHz CF Step 200.000 kHz #VBW 100 kHz Sweep 2.133 ms <u>Auto</u> Occupied Bandwidth **Total Power** 9.44 dBm 1.1515 MHz Freq Offset 0 Hz Transmit Freq Error -9.334 kHz **OBW Power** 99.00 % x dB Bandwidth 1.273 MHz x dB -20.00 dB STATUS

A.3 Carrier Frequency Separation

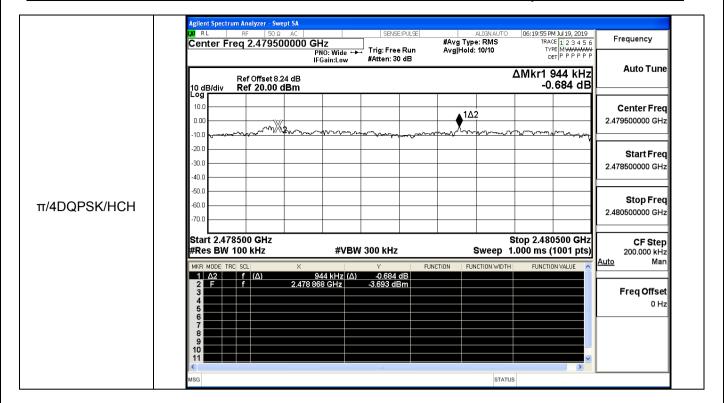
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	1.003	0.610	PASS
GFSK	MCH	1.070	0.610	PASS
	HCH	0.996	0.610	PASS
	LCH	1.026	0.849	PASS
π/4DQPSK	MCH	1.360	0.849	PASS
	HCH	0.944	0.849	PASS





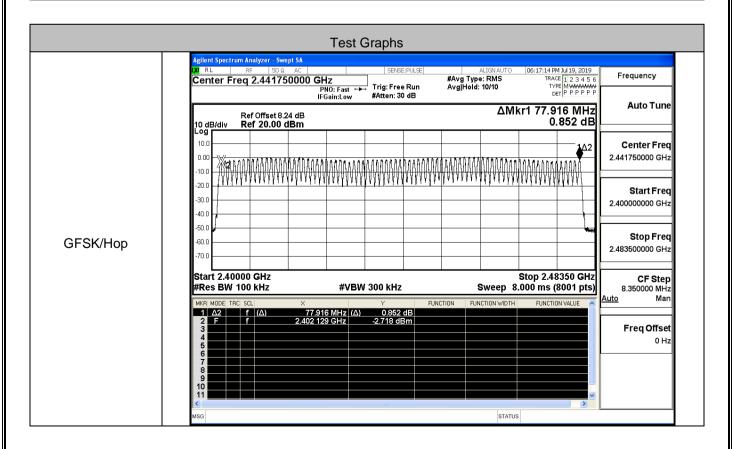


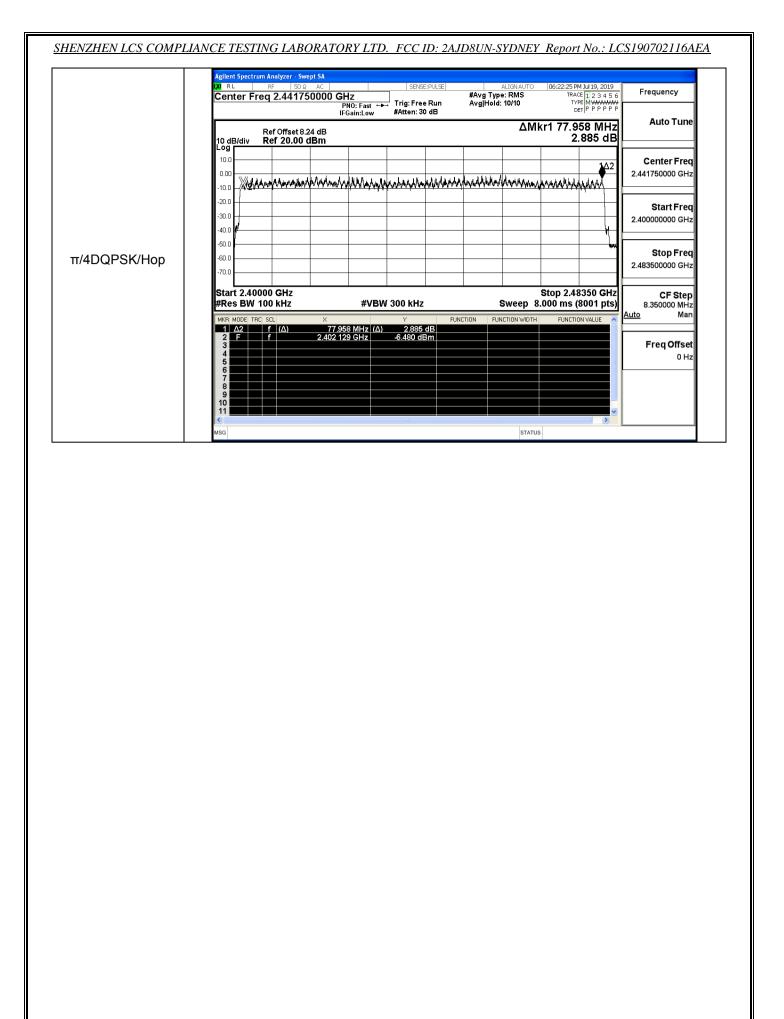
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AJD8UN-SYDNEY Report No.: LCS190702116AEA



A.4 Hopping Channel Number

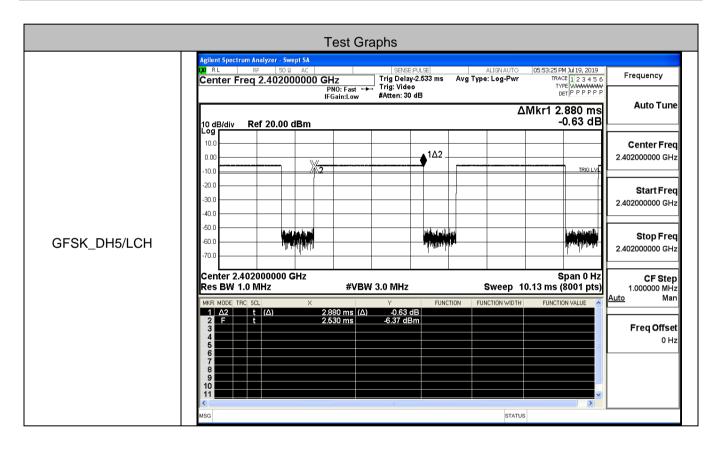
Mode	Mode Channel. Number of Hopping Channel [N]			Verdict
GFSK	Hop 79		>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS

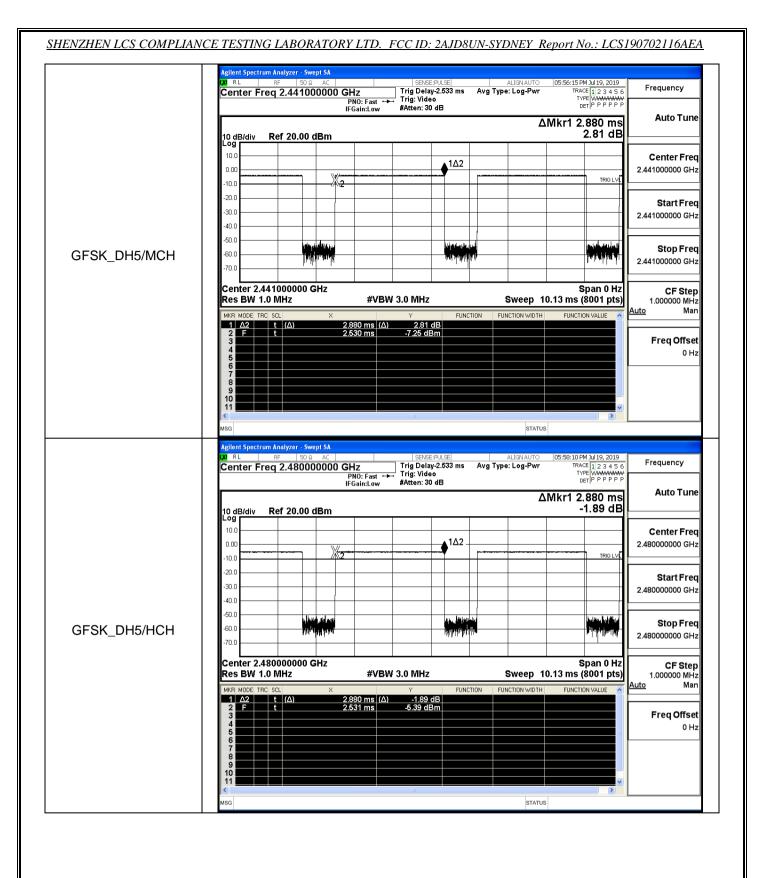


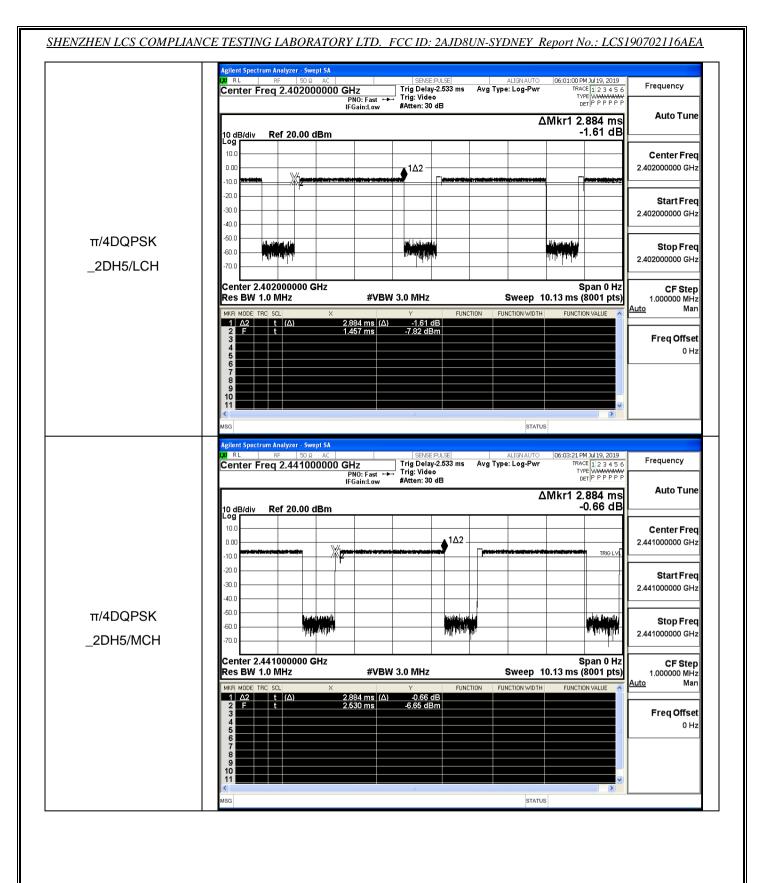


A.5 Dwell Time

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
	DH5	LCH	2.88	106.7	0.307	0.4	PASS
GFSK	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	HCH	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	НСН	2.88	106.7	0.307	0.4	PASS



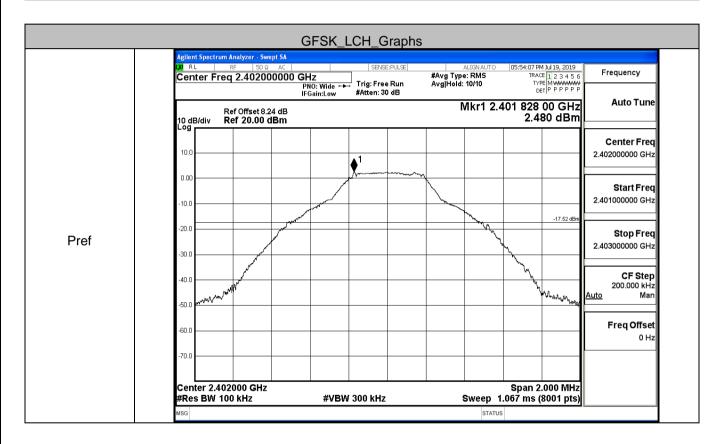




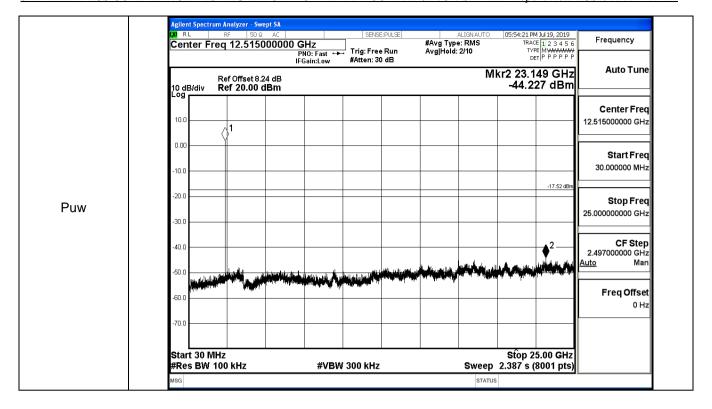
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AJD8UN-SYDNEY Report No.: LCS190702116AEA Frequency **Auto Tune** ΔMkr1 2.884 ms -4.20 dB 10 dB/div Ref 20.00 dBm 10 O Center Freq 2.480000000 GHz 0.00 <u></u> 1∆2 -10.0 -20.0 Start Freq -30.0 2.480000000 GHz -40.0 -50.0 π/4DQPSK Stop Freq -60.0 2.480000000 GHz 2DH5/HCH -70.0 Center 2.480000000 GHz Res BW 1.0 MHz Span 0 Hz CF Step 1.000000 MHz Sweep 10.13 ms (8001 pts) **#VBW 3.0 MHz** <u>Auto</u> FUNCTION FUNCTION WIDTH FUNCTION VALUE 2.884 ms (Δ) 444.6 μs -4.20 dB -6.04 dBm Freq Offset 0 Hz STATUS

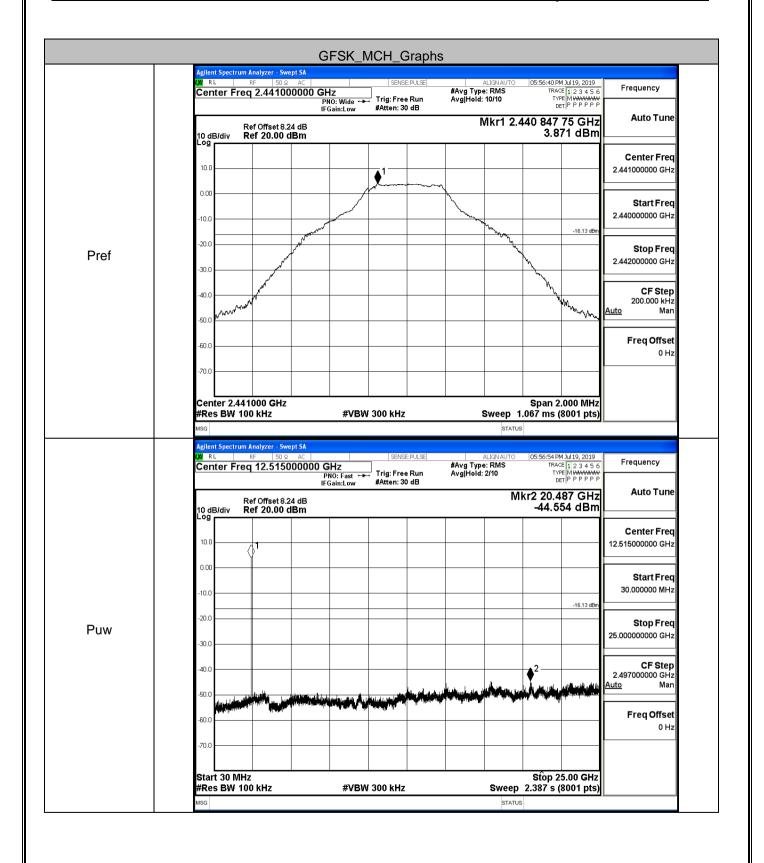
A.6 RF Conducted Spurious Emissions

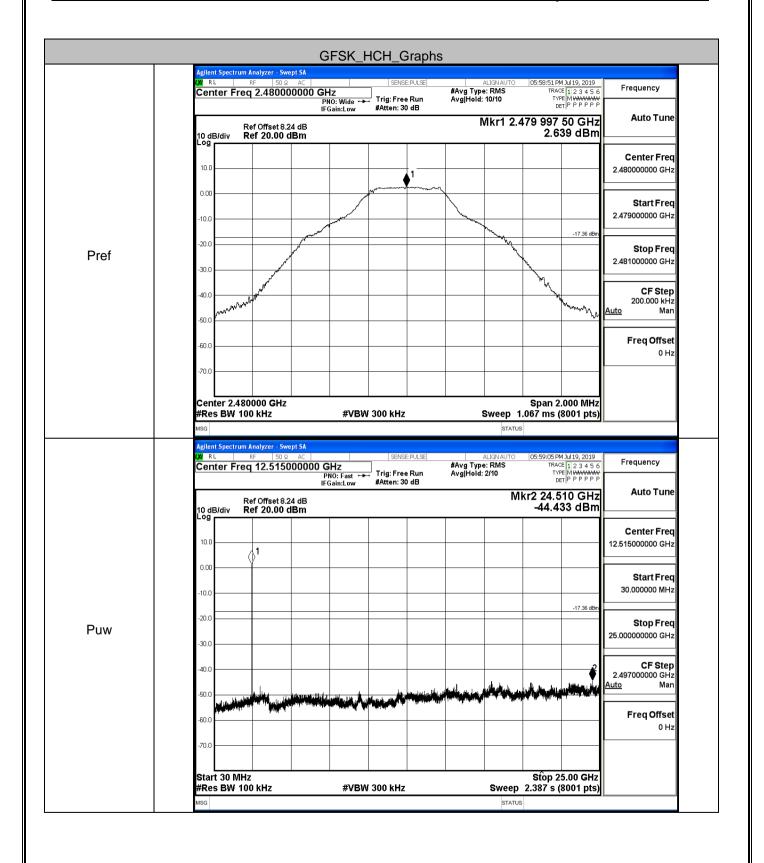
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	2.48	-44.227	-17.520	PASS
GFSK	MCH	3.871	-44.554	-16.129	PASS
	HCH	2.639	-44.433	-17.361	PASS
	LCH	1.797	-44.747	-18.203	PASS
π/4DQPSK	MCH	3.561	-44.759	-16.439	PASS
	НСН	2.224	-44.328	-17.776	PASS

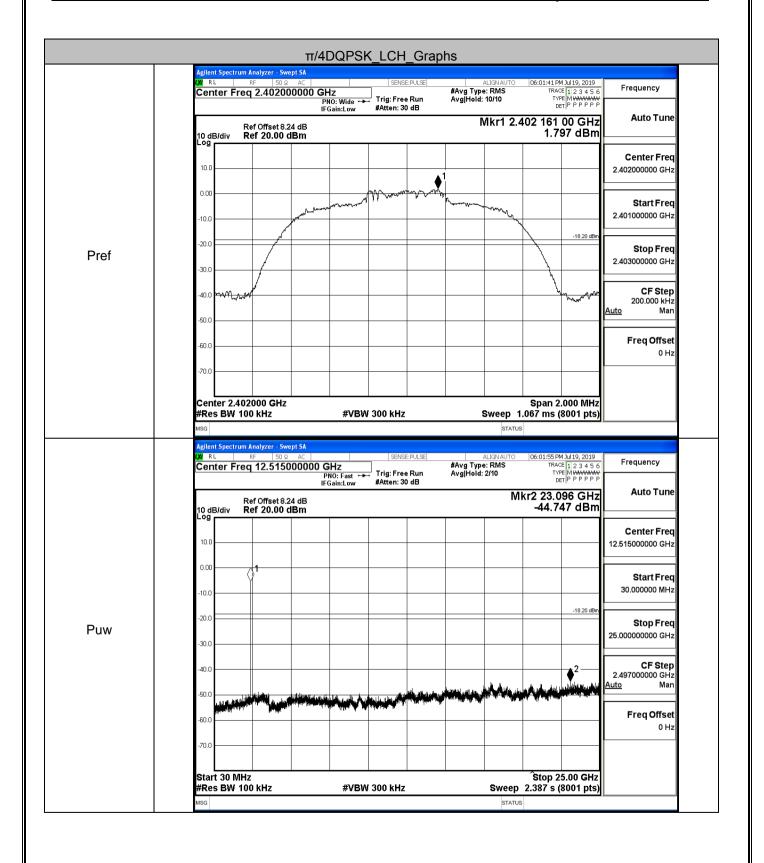


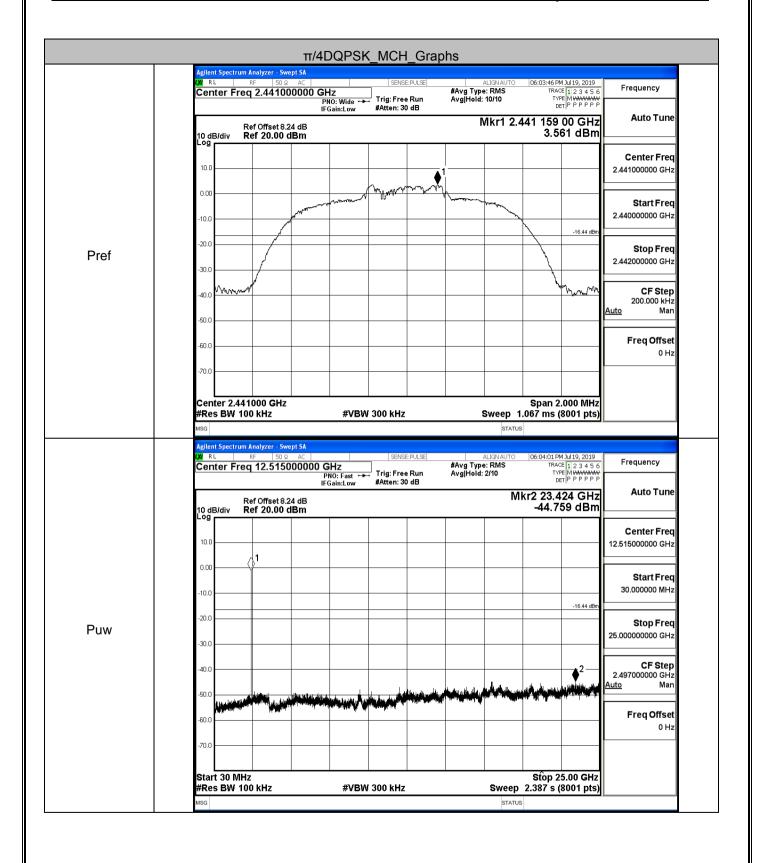
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AJD8UN-SYDNEY Report No.: LCS190702116AEA

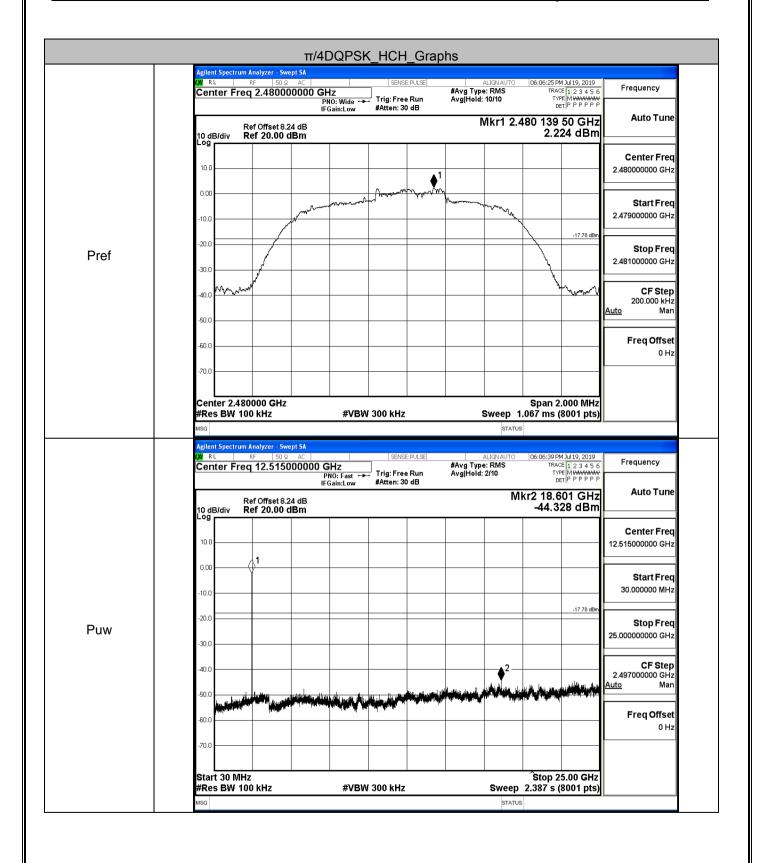






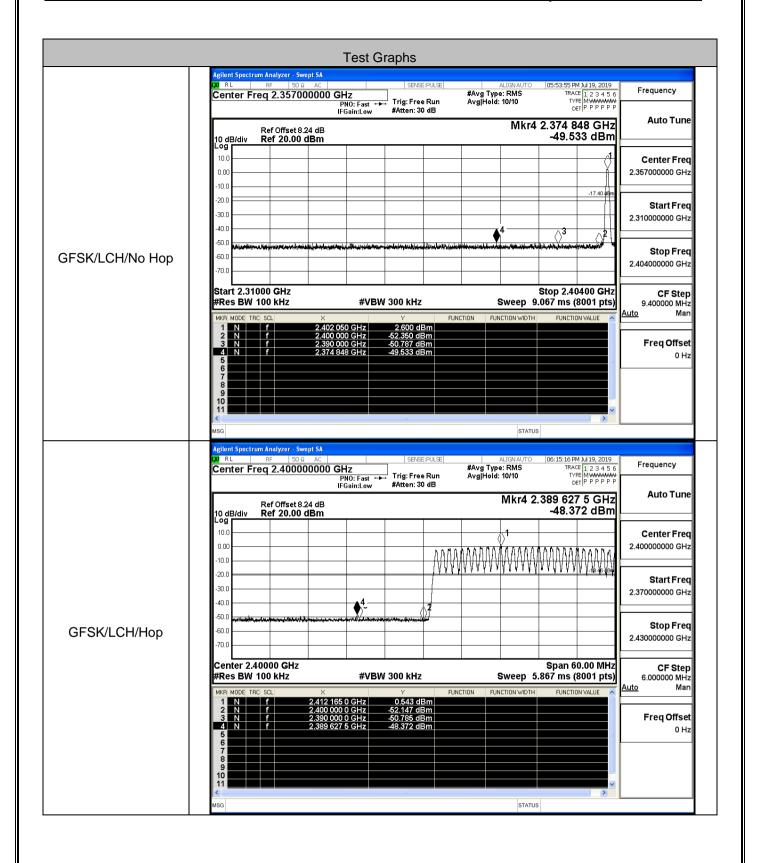


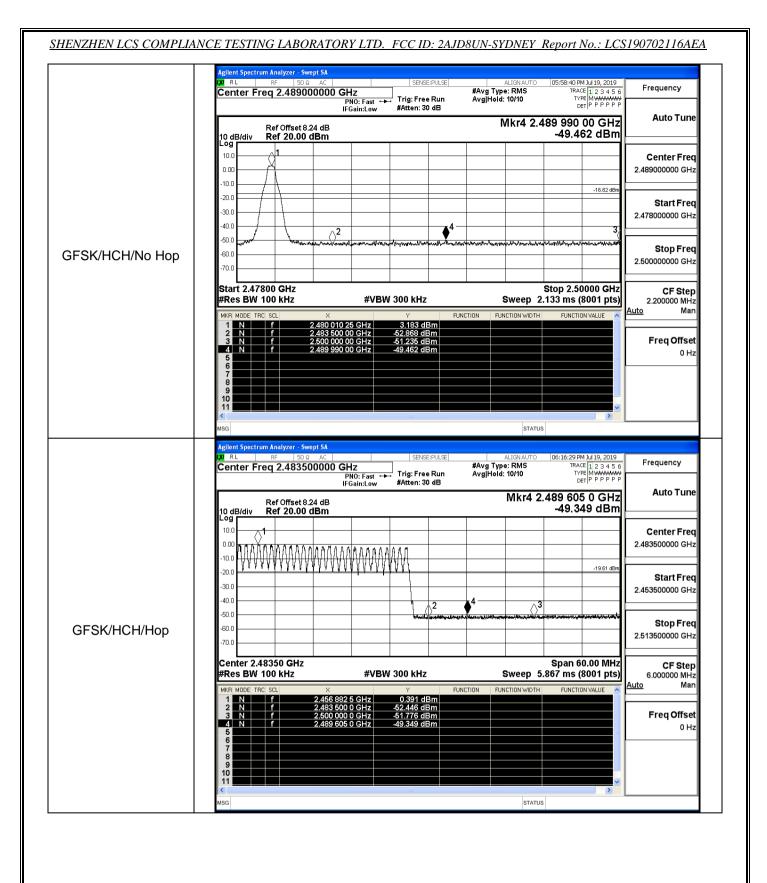


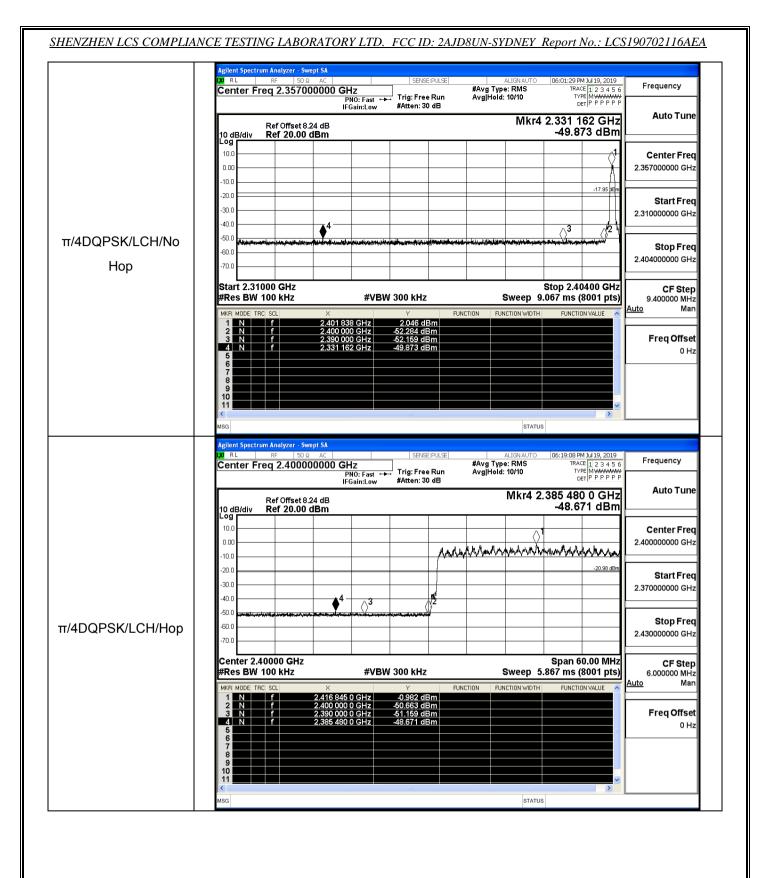


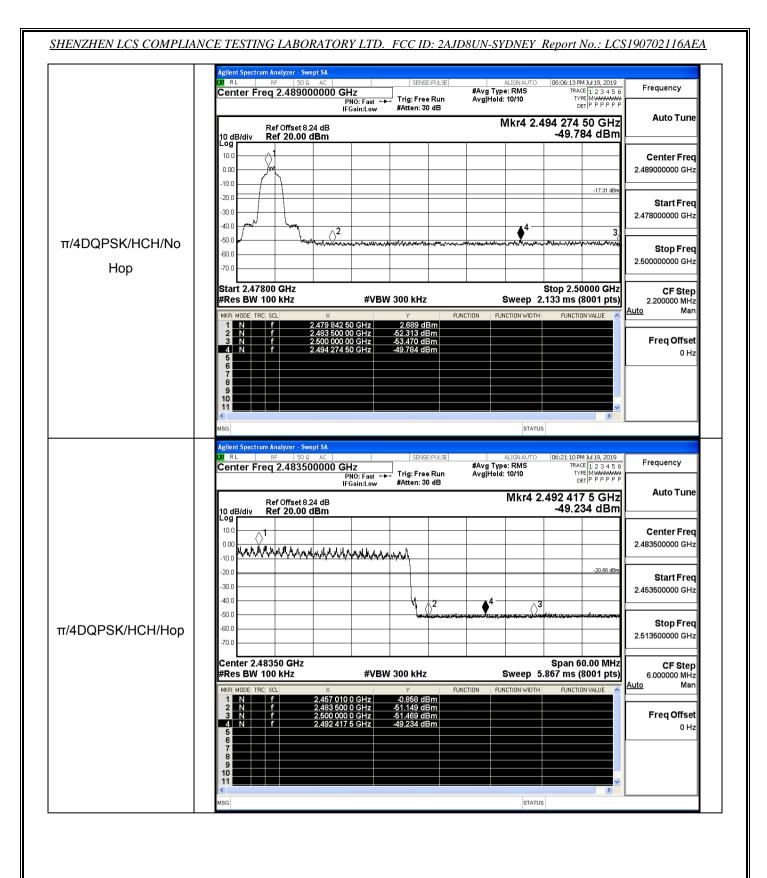
A.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict	
		0.400	2.600	Off	-49.533	-17.4	PASS	
0.5014	LCH	2402	0.543	On	-48.372	-19.46	PASS	
GFSK	НСН		3.183	Off	-49.462	-16.82	PASS	
		2480	0.391	On	-49.349	-19.61	PASS	
	LCH			2.046	Off	-49.873	-17.95	PASS
π/4DQPSK		2402	-0.982	On	-48.671	-20.98	PASS	
			2.689	Off	-49.784	-17.31	PASS	
	HCH	2480	-0.858	On	-49.234	-20.86	PASS	



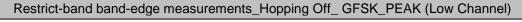


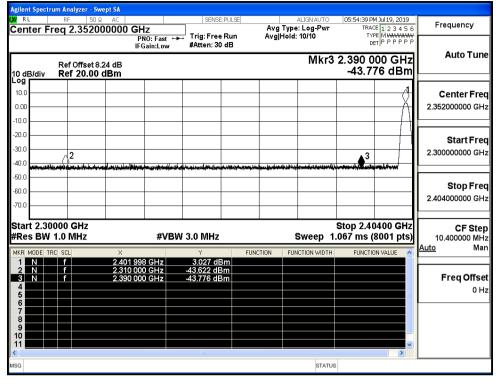




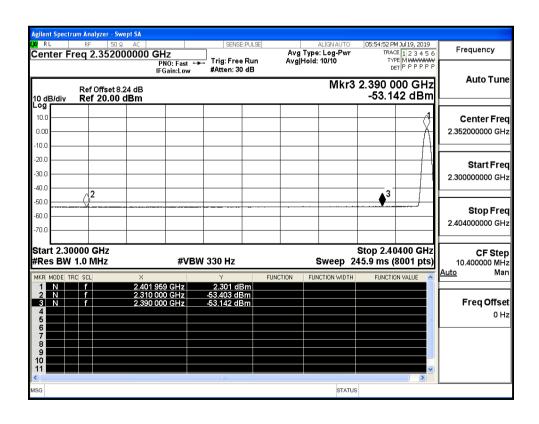
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-43.62	2.0	0	53.64	PEAK	74	PASS
	Off	2310.0	-53.40	2.0	0	43.85	AV	54	PASS
	Off	2390.0	-43.78	2.0	0	53.48	PEAK	74	PASS
	Off	2390.0	-53.14	2.0	0	44.12	AV	54	PASS
GFSK	Off	2483.5	-41.72	2.0	0	55.54	PEAK	74	PASS
	Off	2483.5	-52.79	2.0	0	44.47	AV	54	PASS
	Off	2500.0	-42.26	2.0	0	55.00	PEAK	74	PASS
	Off	2500.0	-52.87	2.0	0	44.39	AV	54	PASS
	Off	2310.0	-42.79	2.0	0	54.47	PEAK	74	PASS
	Off	2310.0	-53.34	2.0	0	43.92	AV	54	PASS
	Off	2390.0	-43.11	2.0	0	54.15	PEAK	74	PASS
	Off	2390.0	-53.22	2.0	0	44.03	AV	54	PASS
π/4DQPSK	Off	2483.5	-43.03	2.0	0	54.23	PEAK	74	PASS
	Off	2483.5	-52.88	2.0	0	44.38	AV	54	PASS
	Off	2500.0	-41.87	2.0	0	55.39	PEAK	74	PASS
	Off	2500.0	-52.68	2.0	0	44.58	AV	54	PASS

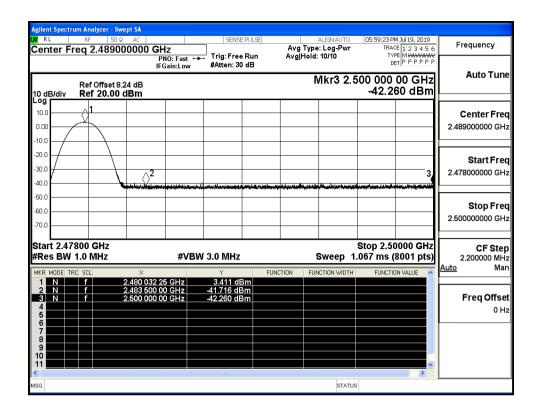




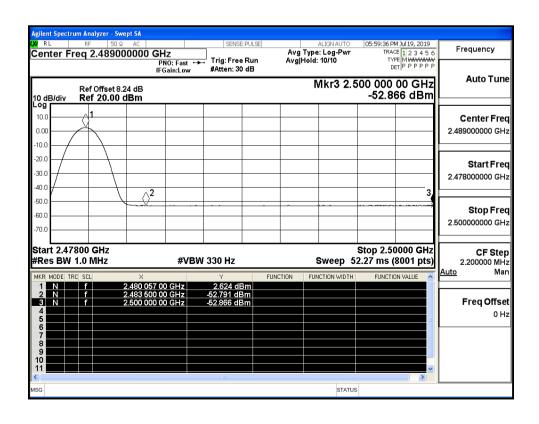
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



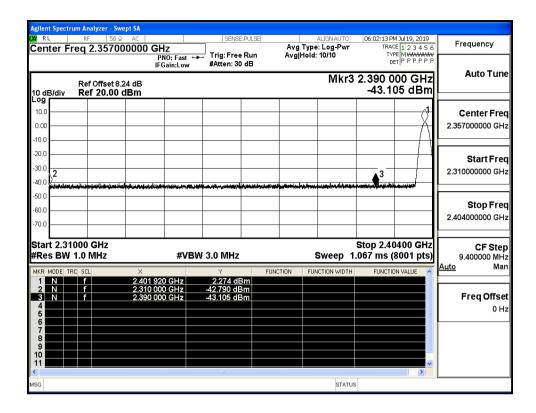
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



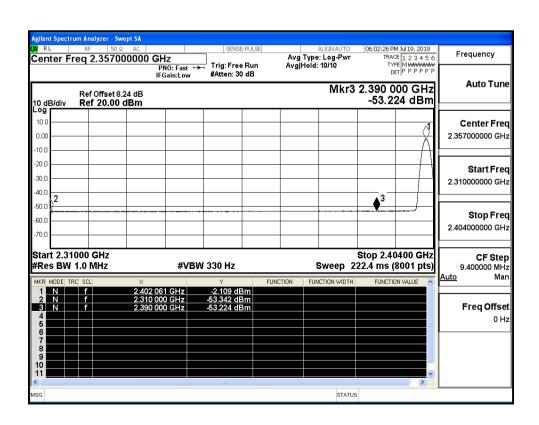
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



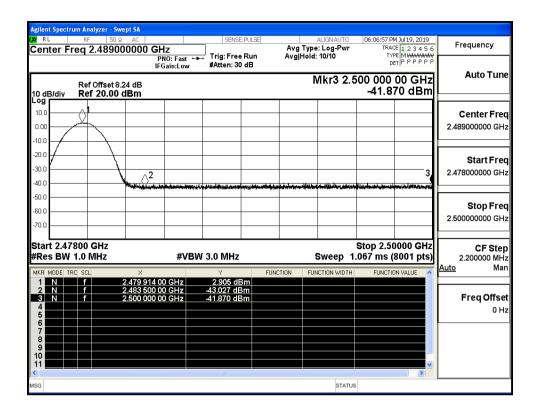
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



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)

