Appendix A

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

Product Name: CD Stereo System with Bluetooth

Trade Mark: VICTROLA /Innovative technology

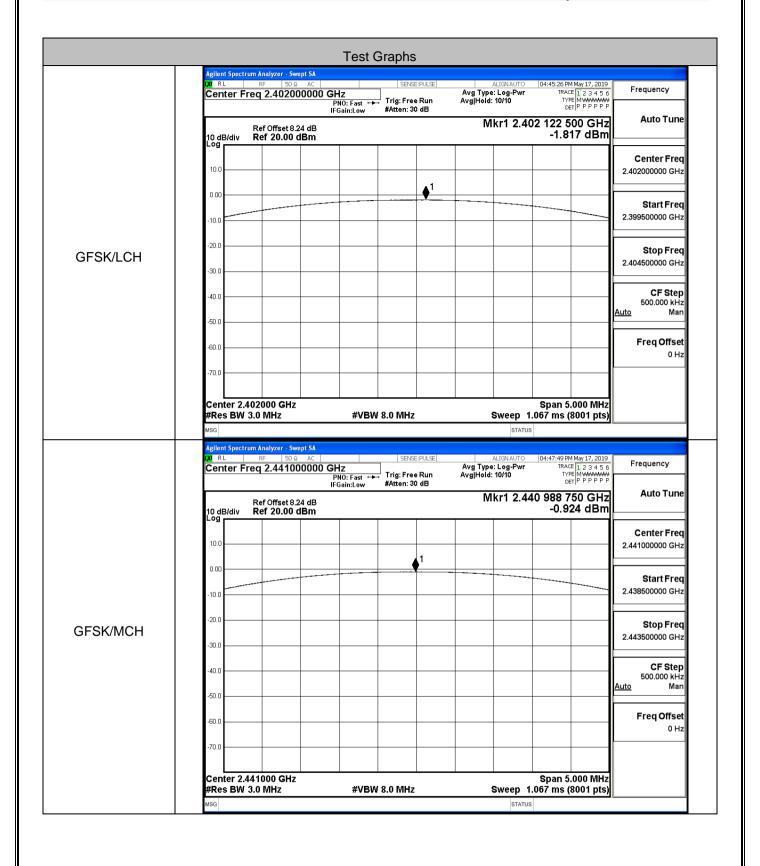
Test Model: ITCDS-5001-SLV

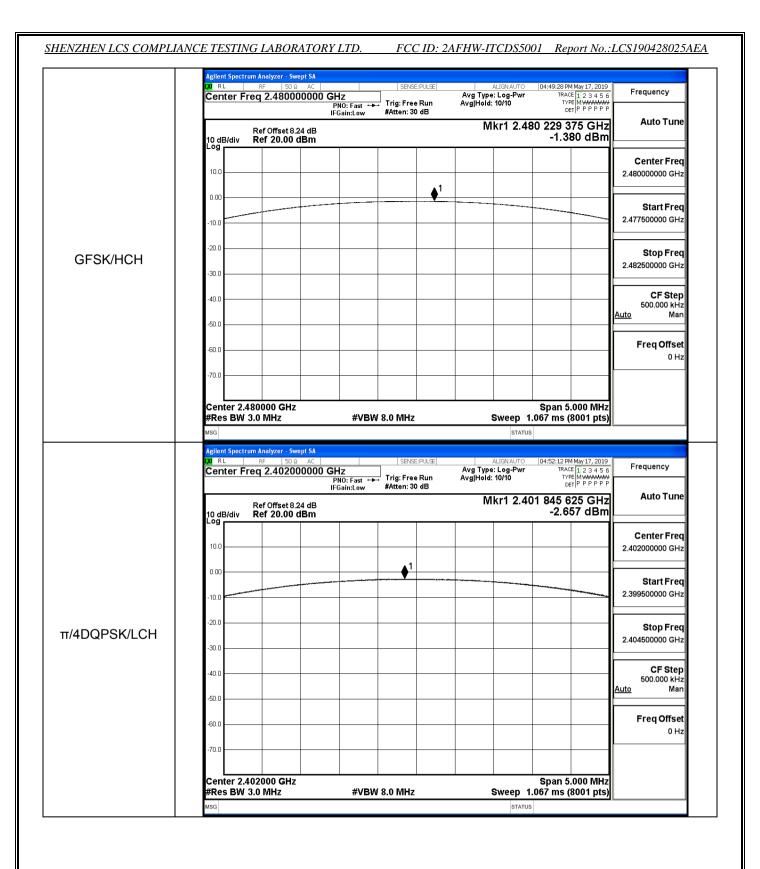
Environmental Conditions

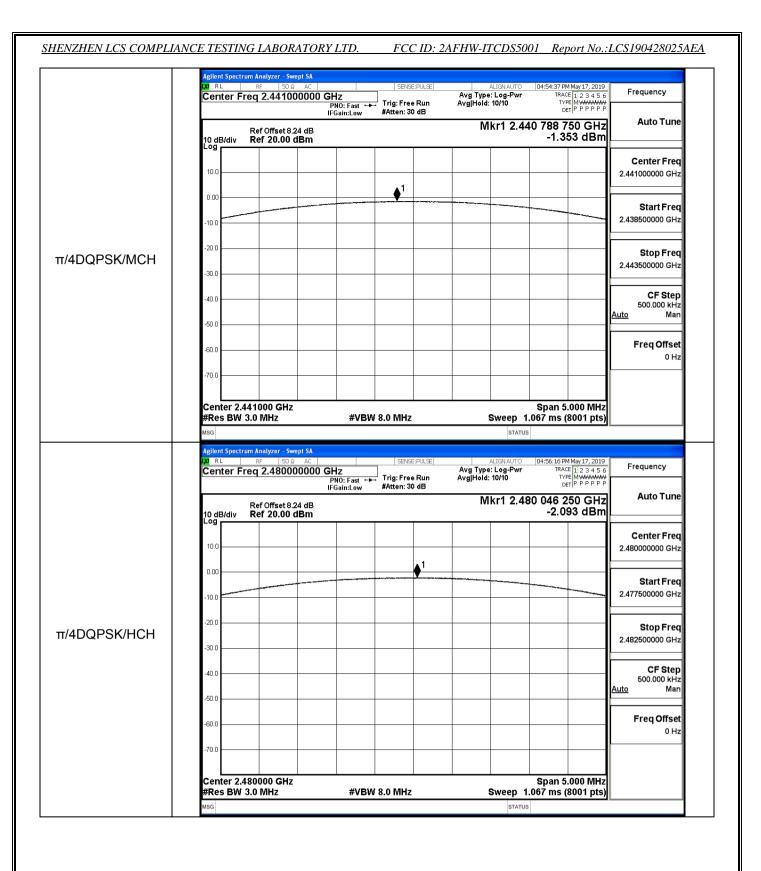
Temperature:	24.1 ° C
Relative Humidity:	53.4 %
ATM Pressure:	100.0 kPa
Test Engineer:	Scent Hu
Supervised by:	Tom.Liu

A.1 Maxmum Conducted Peak Output Power

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	-1.817	30	PASS
GFSK	MCH	-0.924	30	PASS
	НСН	-1.380	30	PASS
	LCH	-2.657	21	PASS
π/4DQPSK	MCH	-1.353	21	PASS
	НСН	-2.093	21	PASS

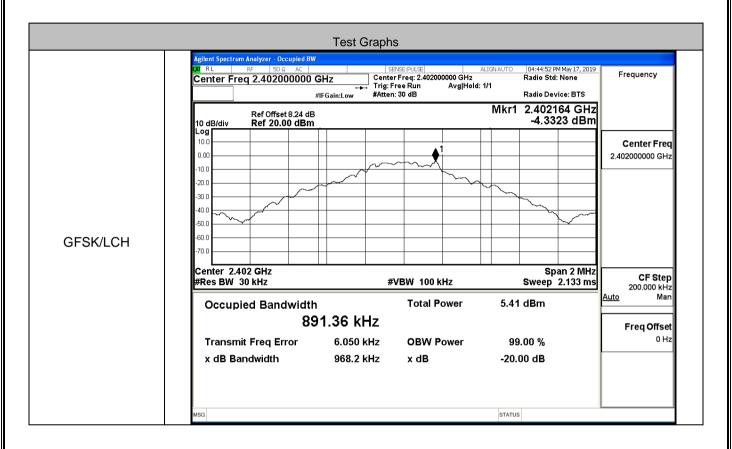






A.2 20dB Bandwidth

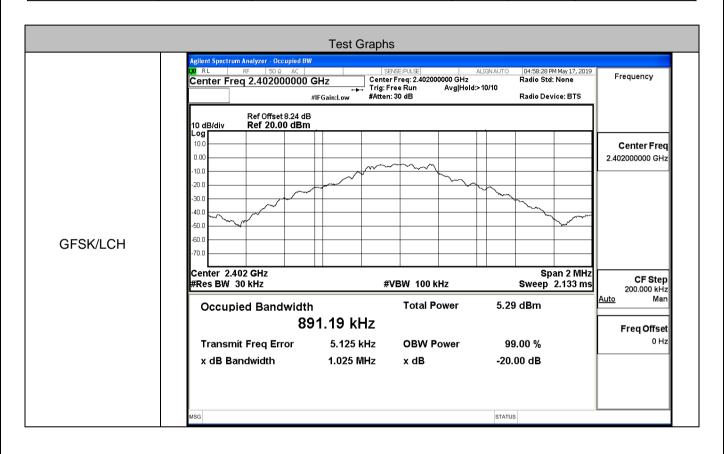
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	0.9682	Not Specified	PASS
GFSK	MCH	1.014	Not Specified	PASS
	HCH	1.037	Not Specified	PASS
	LCH	1.292	Not Specified	PASS
π/4DQPSK	MCH	1.292	Not Specified	PASS
	HCH	1.292	Not Specified	PASS

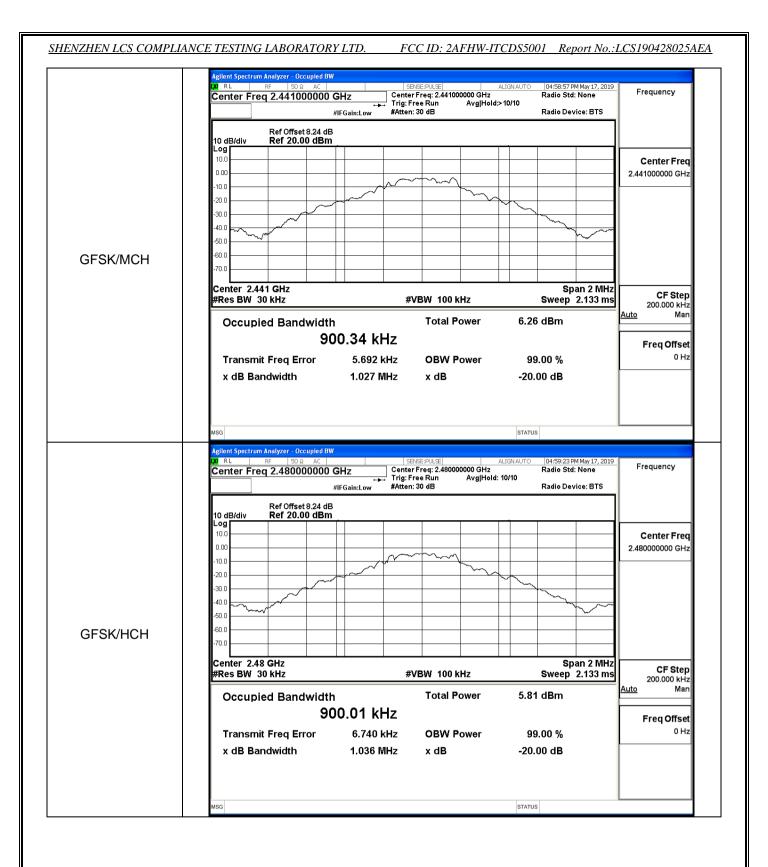


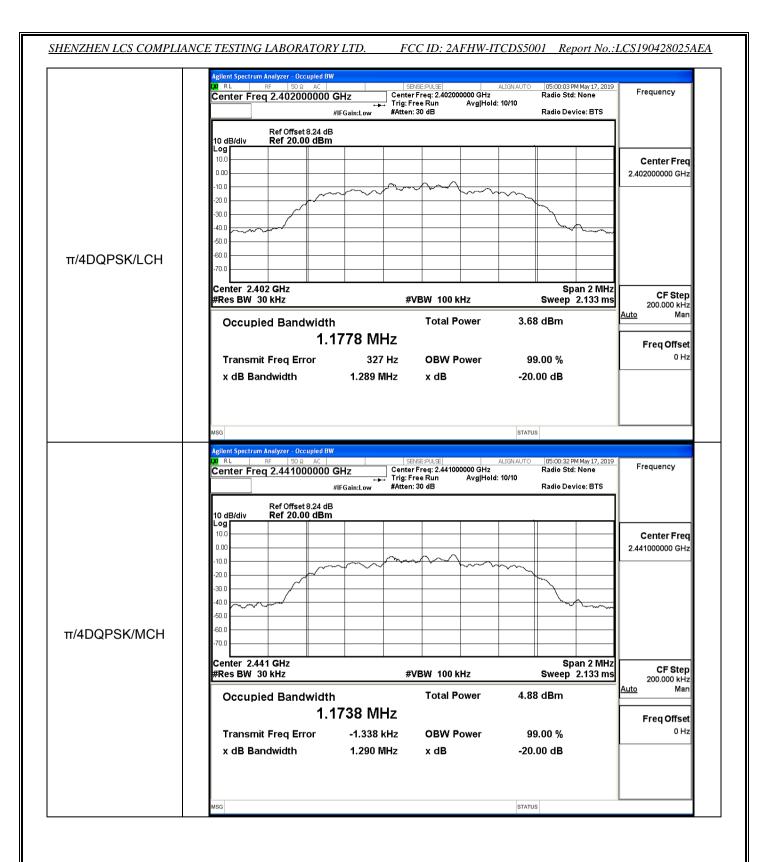
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AFHW-ITCDS5001 Report No.:LCS190428025AEA 04:55:42 PM May 17, 2019 Radio Std: None SENSE:PULSE ALIGN AUTO Center Freq: 2.480000000 GHz Trig: Free Run Avg|Hold: 1/1 #Atten: 30 dB Frequency Radio Device: BTS Mkr1 2.480162 GHz Ref Offset 8.24 dB Ref 20.00 dBm -5.6950 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** 4.37 dBm 1.1721 MHz Freq Offset 0 Hz Transmit Freq Error -836 Hz **OBW Power** 99.00 % 1.292 MHz x dB Bandwidth x dB -20.00 dB STATUS

A.3 Occupied Bandwidth

Mode	Mode Channel. Occu		Limit [MHz]	Verdict
	LCH	0.89119	Not Specified	PASS
GFSK	MCH	0.90034	Not Specified	PASS
	HCH	0.90001	Not Specified	PASS
	LCH	1.1778	Not Specified	PASS
π/4DQPSK	MCH	1.1738	Not Specified	PASS
	HCH	1.1731	Not Specified	PASS



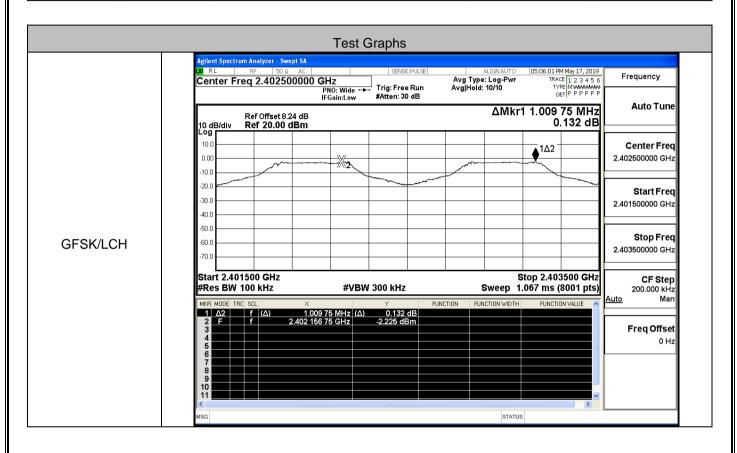


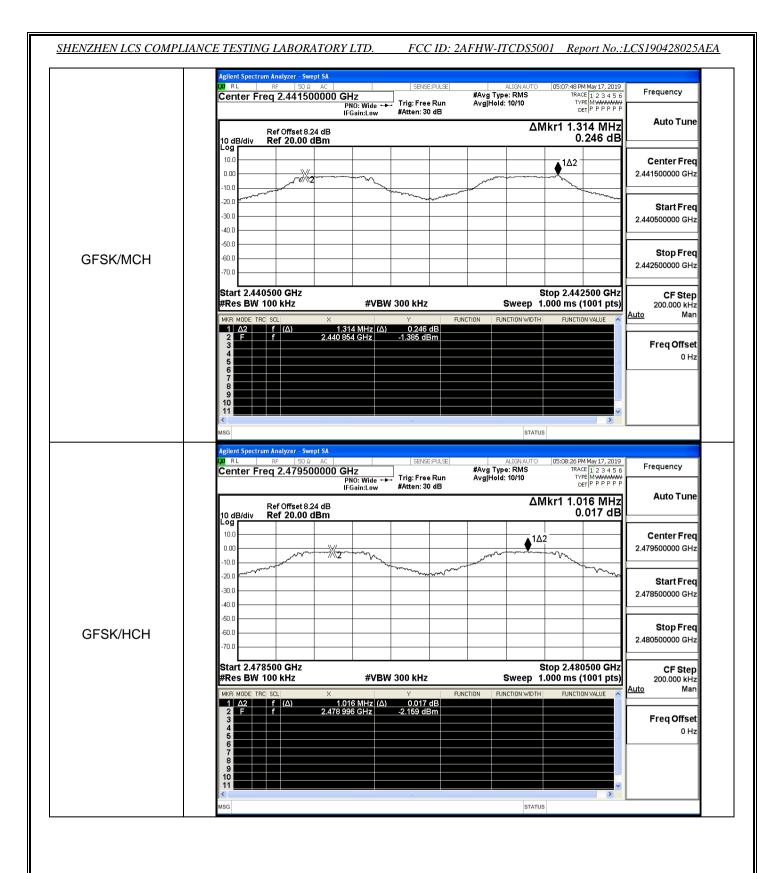


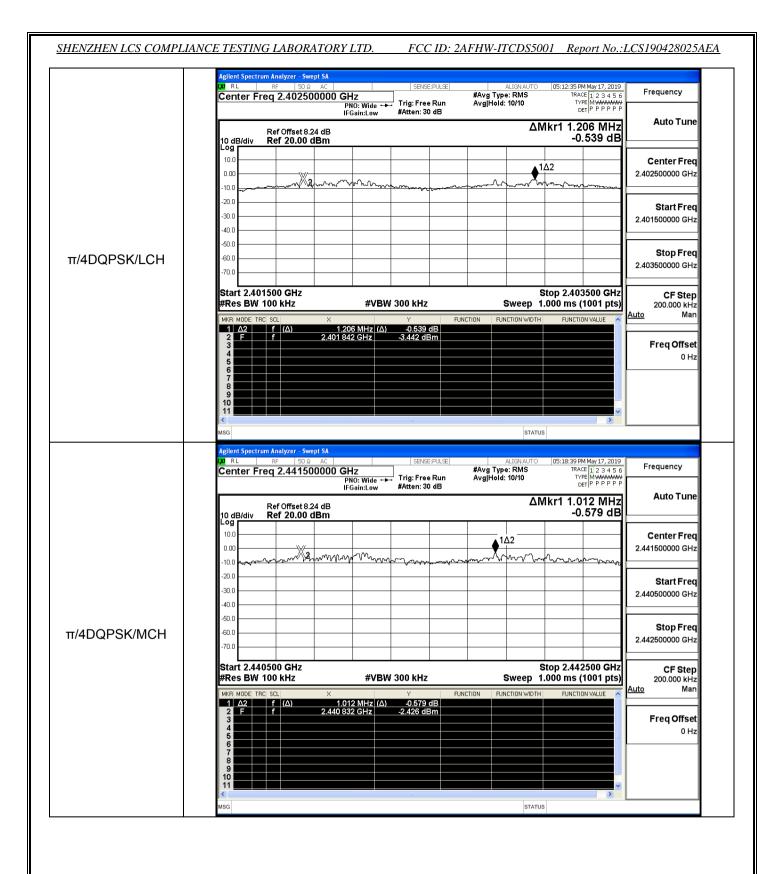
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AFHW-ITCDS5001 Report No.:LCS190428025AEA 05:01:00 PM May 17, 2019 Radio Std: None SENSE:PULSE ALIGN AUTO Center Freq: 2.480000000 GHz Trig: Free Run Avg|Hold: 10/10 #Atten: 30 dB Frequency Radio Device: BTS Ref Offset 8.24 dB Ref 20.00 dBm 10 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 Auto Occupied Bandwidth **Total Power** 4.38 dBm 1.1731 MHz Freq Offset 0 Hz Transmit Freq Error -567 Hz **OBW Power** 99.00 % 1.289 MHz x dB Bandwidth x dB -20.00 dB STATUS

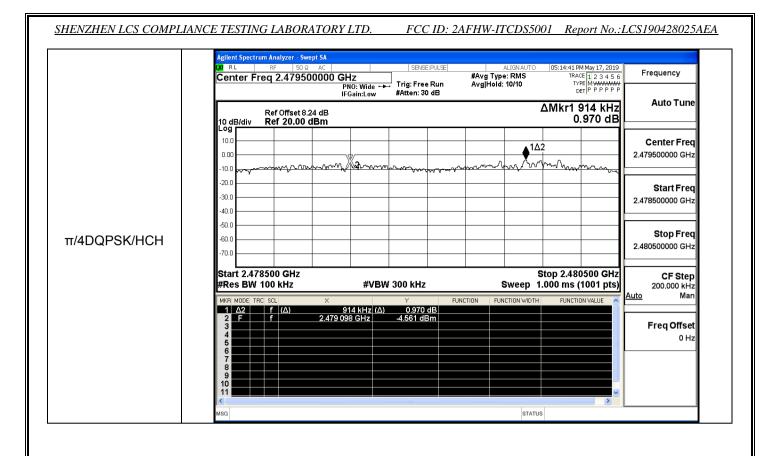
A.4 Carrier Frequency Separation

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	1.010	0.691	PASS
GFSK	MCH	1.314	0.691	PASS
	HCH	1.016	0.691	PASS
	LCH	1.206	0.861	PASS
π/4DQPSK	MCH	1.012	0.861	PASS
	НСН	0.914	0.861	PASS



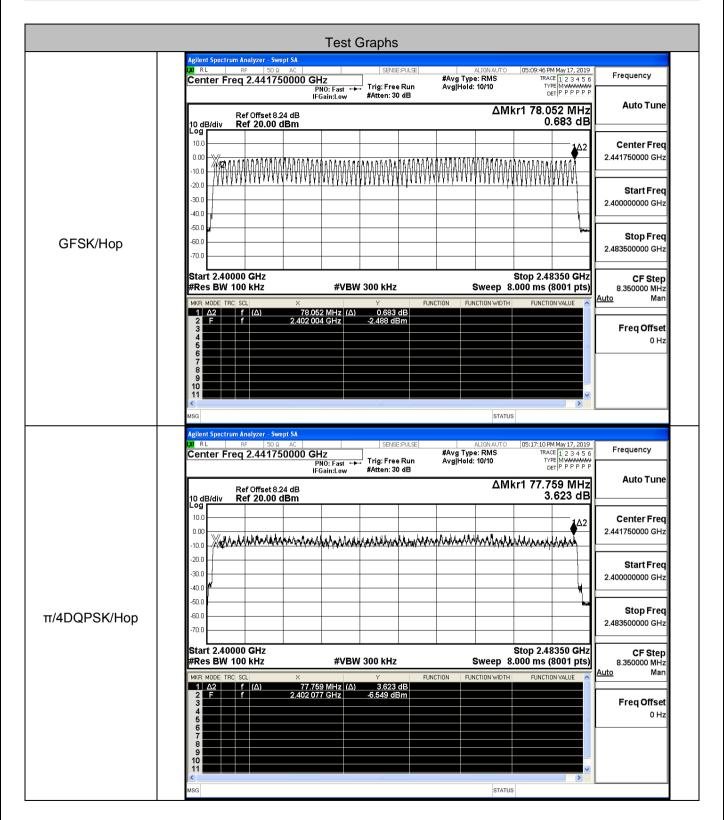






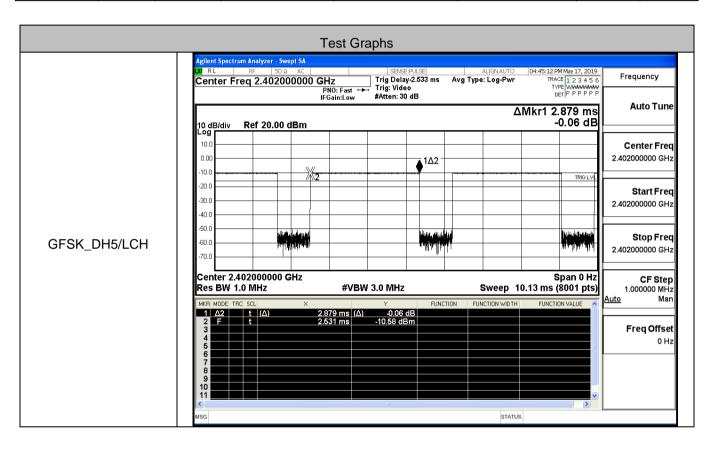
A.5 Hopping Channel Number

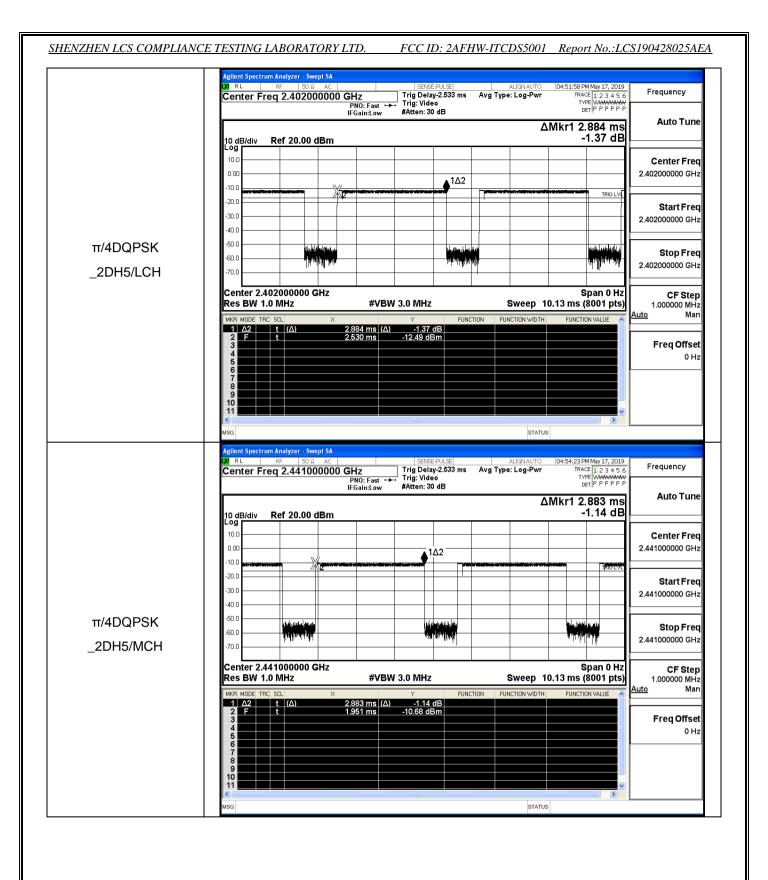
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS



A.6 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	HCH	2.88	106.7	0.307	0.4	PASS

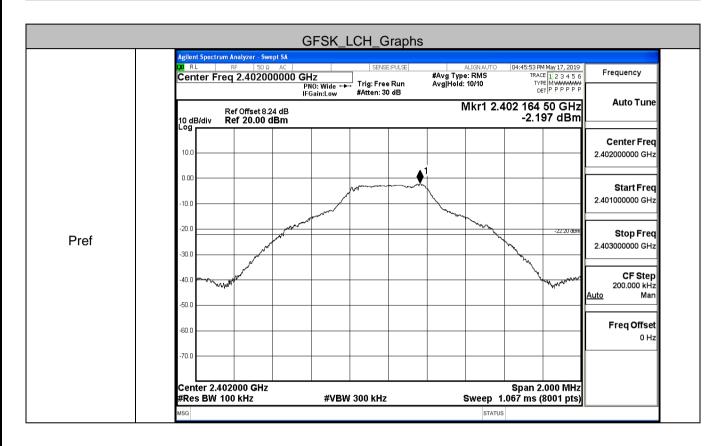




SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AFHW-ITCDS5001 Report No.:LCS190428025AEA Frequency **Auto Tune** ΔMkr1 2.884 ms -1.80 dB 10 dB/div Ref 20.00 dBm 10.0 Center Freq 0.00 2.480000000 GHz 1Δ2 -10.0 -20.0 Start Freq -30.0 2.480000000 GHz -40.0 -50.0 π/4DQPSK Stop Freq -60.0 2.480000000 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 2.884 ms (Δ) -1.80 dB 1.245 ms -12.04 dBm Freq Offset 0 Hz STATUS

A.7 RF Conducted Spurious Emissions

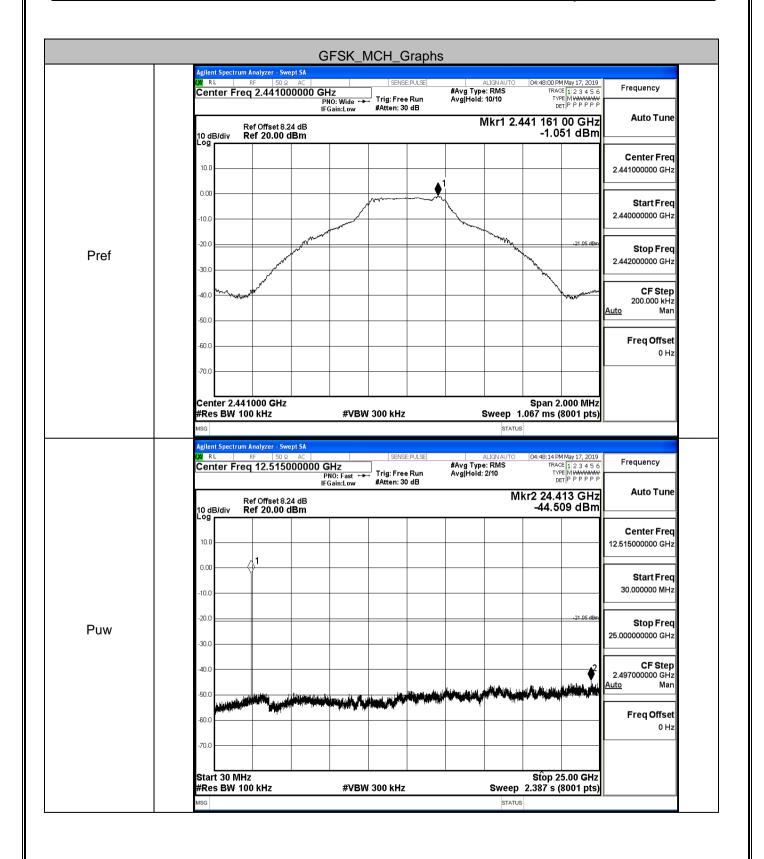
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	-2.197	-44.631	-22.197	PASS
GFSK	MCH	-1.051	-44.509	-21.051	PASS
	HCH	-2.267	-44.916	-22.267	PASS
	LCH	-3.57	-44.939	-23.570	PASS
π/4DQPSK	MCH	-2.297	-44.635	-22.297	PASS
	НСН	-3.45	-44.992	-23.450	PASS

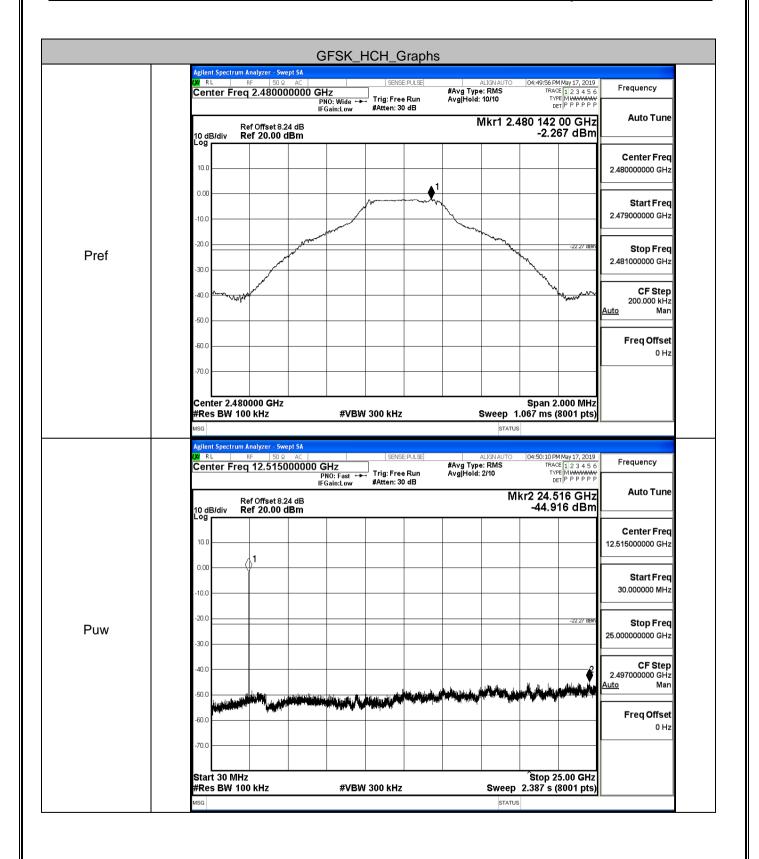


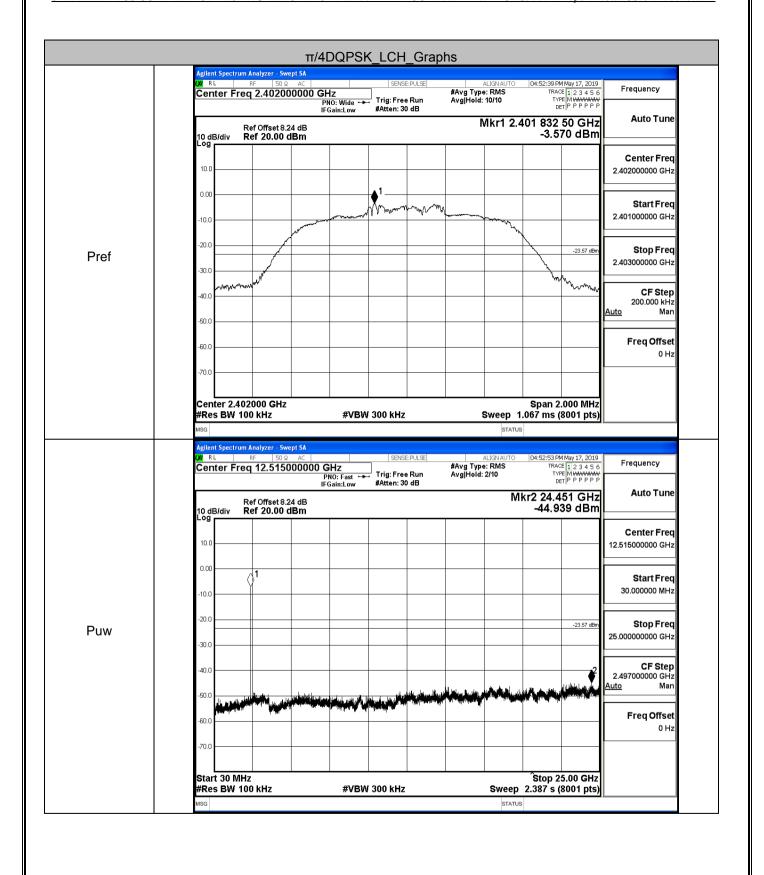
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AFHW-ITCDS5001 Report No.:LCS190428025AEA Agilent Spectrum Analyzer - Swept SA 04:46:07 PM May 17, 2019 TRACE 1 2 3 4 5 6 TYPE M WWWWWW DET P P P P P P #Avg Type: RMS Avg|Hold: 2/10 Frequency Mkr2 24.950 GHz -44.631 dBm Auto Tune Ref Offset 8.24 dB Ref 20.00 dBm 10 dB/div Log Center Freq 10.0 12.515000000 GHz 0.00 Start Freq 30.000000 MHz -10.0 -20.0 Stop Freq Puw 25.000000000 GHz -30.0 **CF Step** 2.497000000 GHz <u>Auto</u> Man 40.0 Auto -50.0 Freq Offset -60.0 0 Hz -70.0 Start 30 MHz #Res BW 100 kHz Stop 25.00 GHz Sweep 2.387 s (8001 pts)

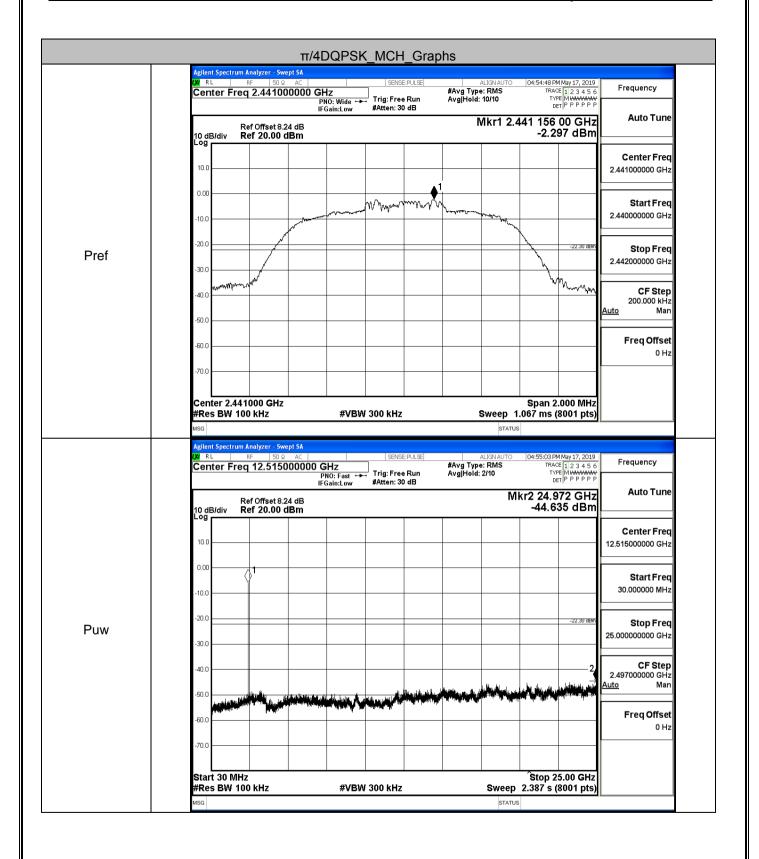
#VBW 300 kHz

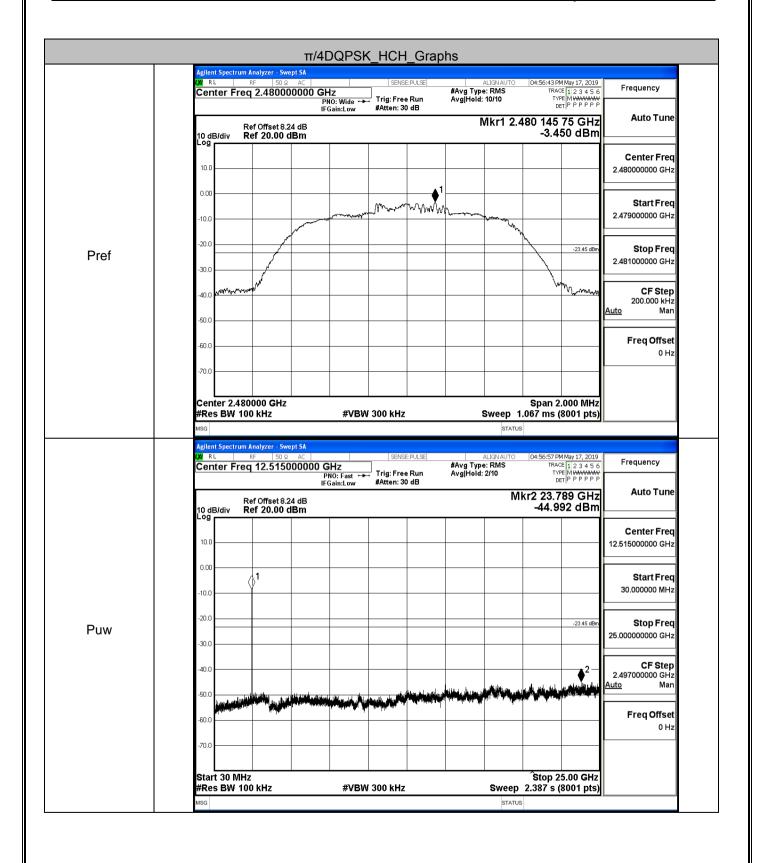
STATUS





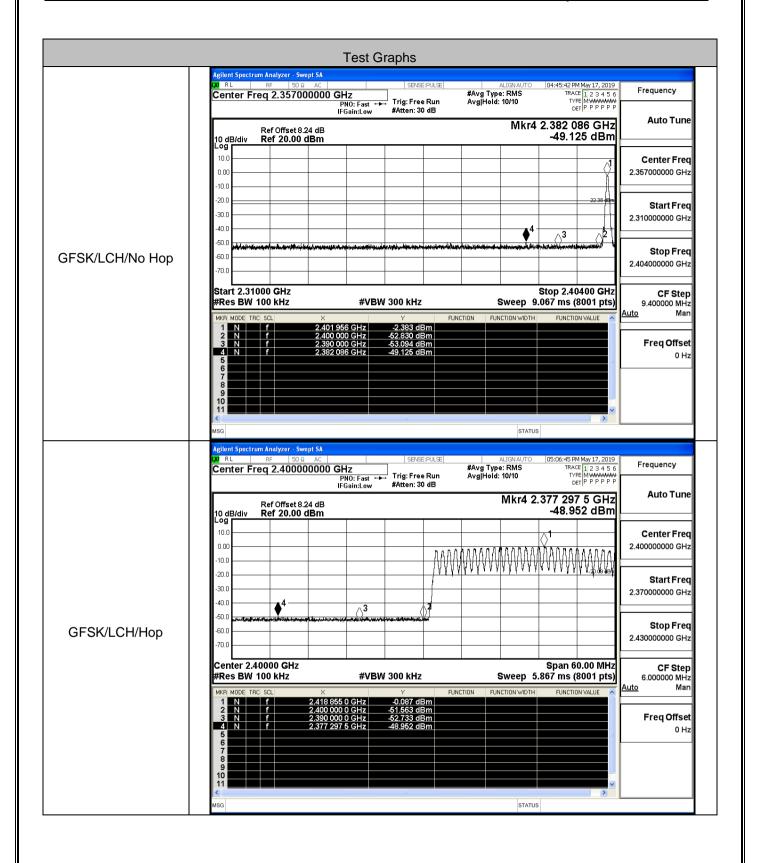






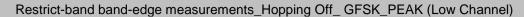
A.8 Band-edge for RF Conducted Emissions

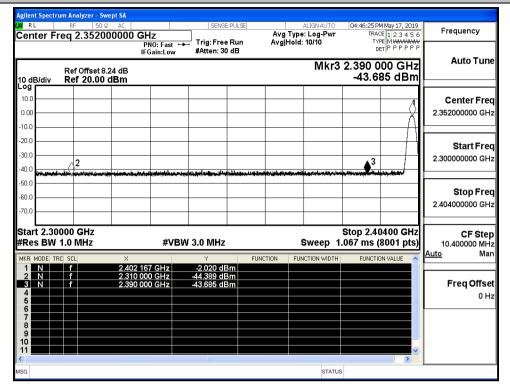
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict	
			-2.383	Off	-49.125	-22.38	PASS	
	LCH	2402	-0.087	On	-48.952	-20.09	PASS	
GFSK			-1.663	Off	-49.919	-21.66	PASS	
	HCH	HCH 2480	0.403	On	-49.291	-19.6	PASS	
			-3.392	Off	-49.569	-23.39	PASS	
	LCH	2402	-1.424	On	-49.451	-21.42	PASS	
π/4DQPSK				-2.953	Off	-49.000	-22.95	PASS
	HCH	2480	-1.064	On	-48.995	-21.06	PASS	



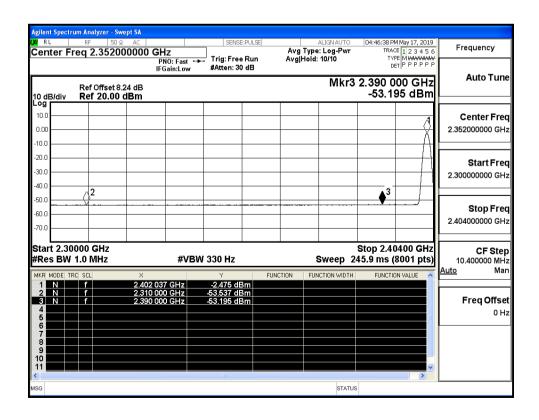
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-44.39	2.0	0	52.87	PEAK	74	PASS
	Off	2310.0	-53.54	2.0	0	43.72	AV	54	PASS
	Off	2390.0	-43.69	2.0	0	53.57	PEAK	74	PASS
	Off	2390.0	-53.20	2.0	0	44.06	AV	54	PASS
GFSK	Off	2483.5	-42.93	2.0	0	54.33	PEAK	74	PASS
	Off	2483.5	-52.88	2.0	0	44.38	AV	54	PASS
	Off	2500.0	-42.28	2.0	0	54.97	PEAK	74	PASS
	Off	2500.0	-52.82	2.0	0	44.43	AV	54	PASS
	Off	2310.0	-43.90	2.0	0	53.36	PEAK	74	PASS
	Off	2310.0	-53.54	2.0	0	43.71	AV	54	PASS
	Off	2390.0	-42.23	2.0	0	55.03	PEAK	74	PASS
	Off	2390.0	-53.19	2.0	0	44.07	AV	54	PASS
π/4DQPSK	Off	2483.5	-42.26	2.0	0	55.00	PEAK	74	PASS
	Off	2483.5	-52.91	2.0	0	44.35	AV	54	PASS
	Off	2500.0	-42.93	2.0	0	54.33	PEAK	74	PASS
	Off	2500.0	-52.81	2.0	0	44.44	AV	54	PASS

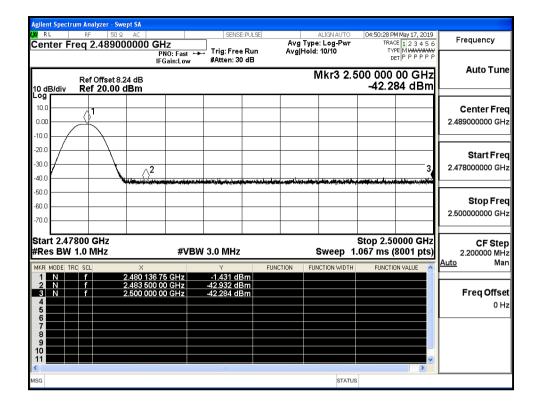




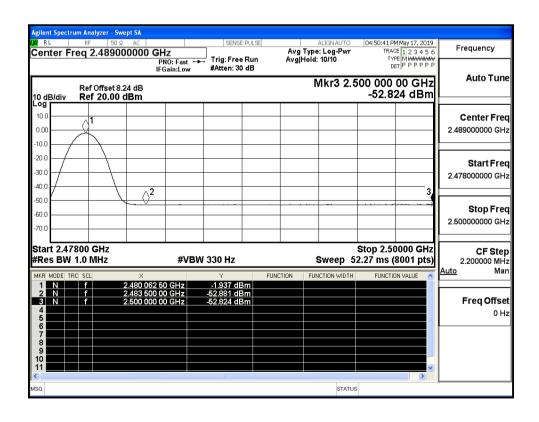
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



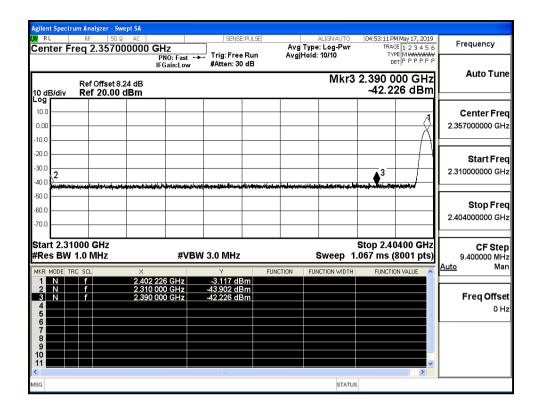
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



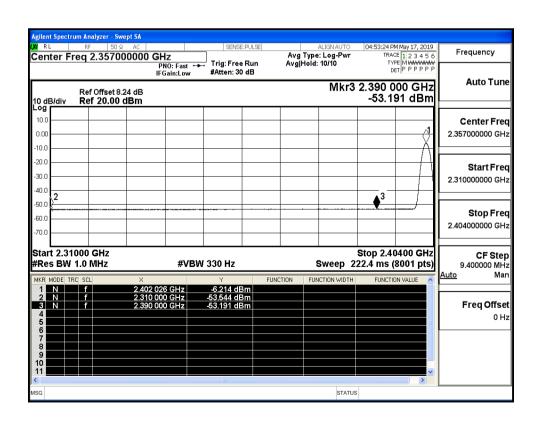
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



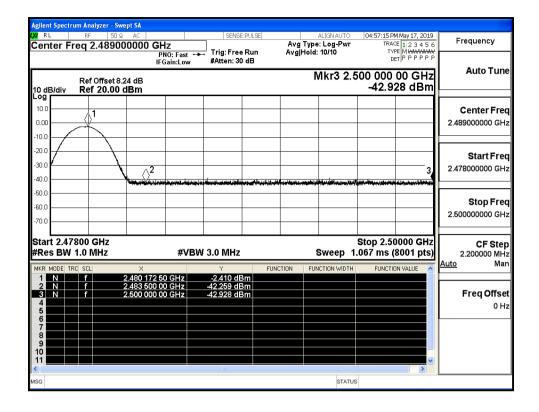
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



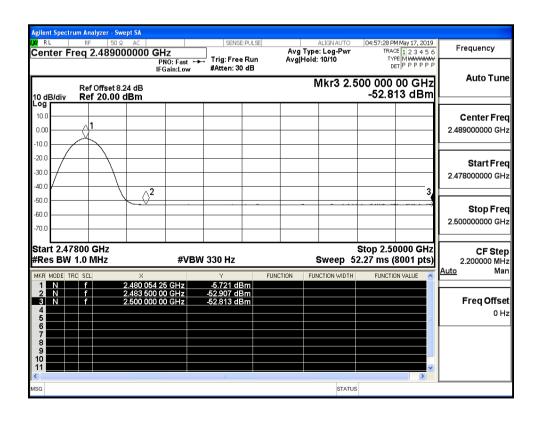
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



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)



SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.	FCC ID: 2AFHW-ITCDS5001	Report No.:LCS190428025AEA