# Appendix A

# RF Test Data for BT V4.2(BDR/EDR) (Conducted Measurement)

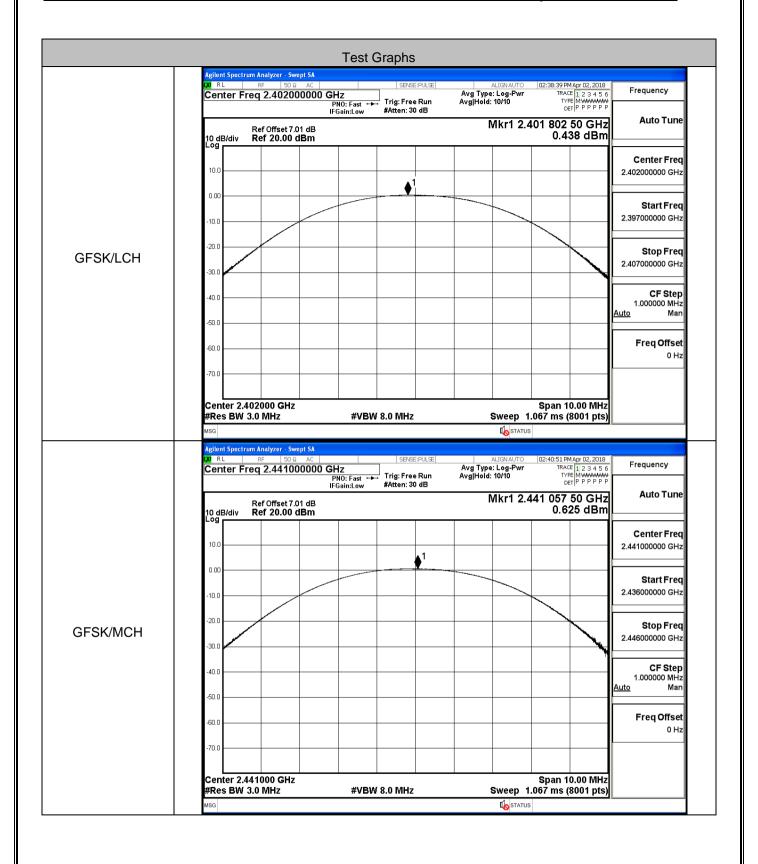
**Product Name: Bluetooth Sport Headset Trade Mark: AWEI** Test Model: B922BL

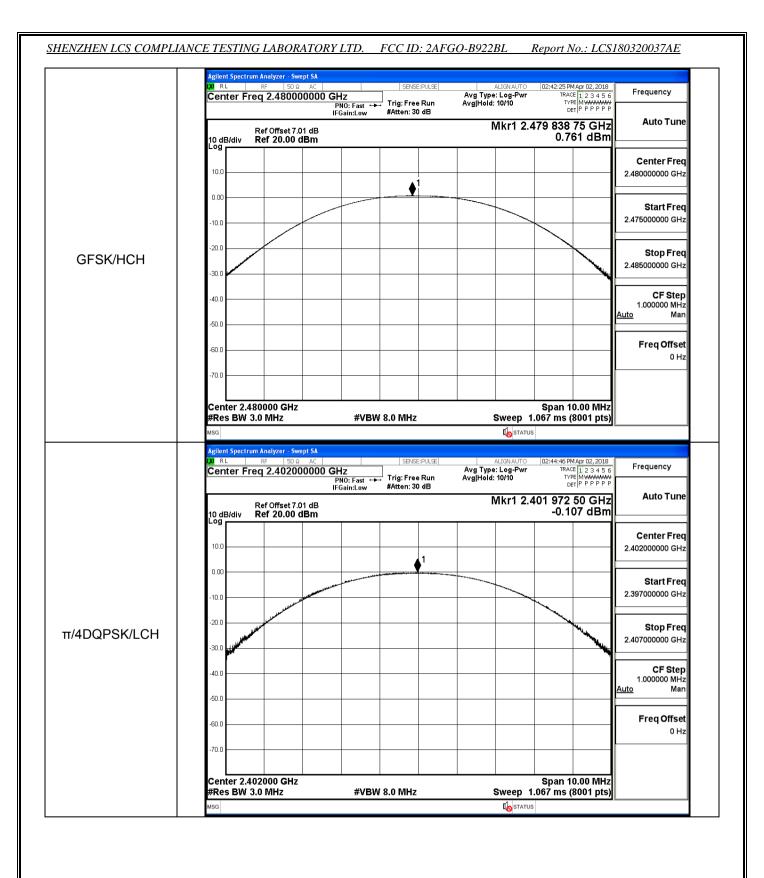
#### **Environmental Conditions**

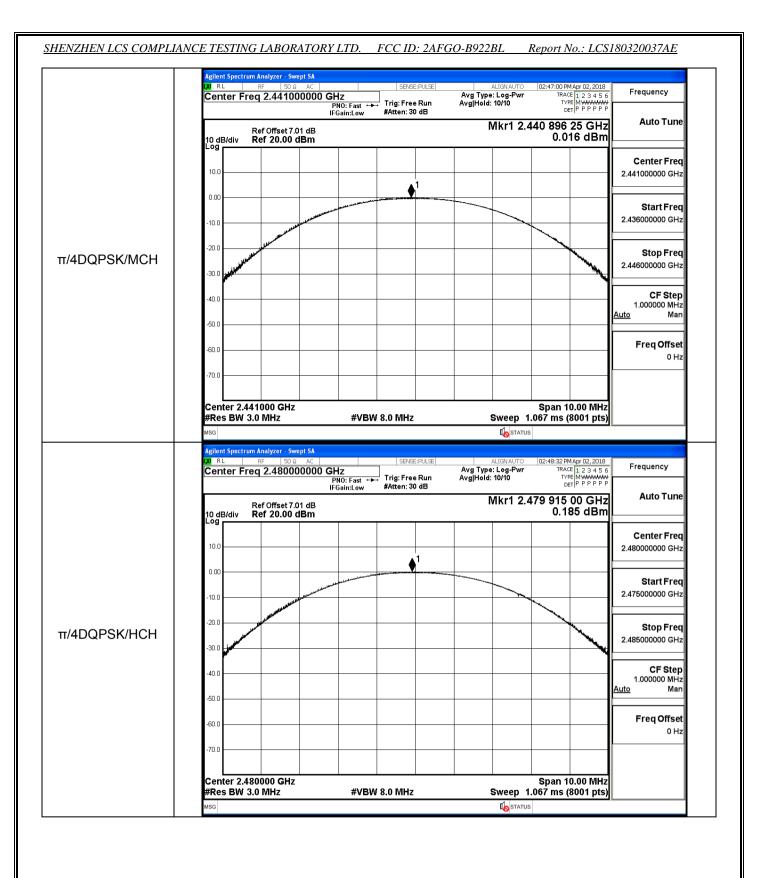
<del></del>	
Temperature:	22.3 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Jayden.Zhuo
Supervised by:	Dick.Su

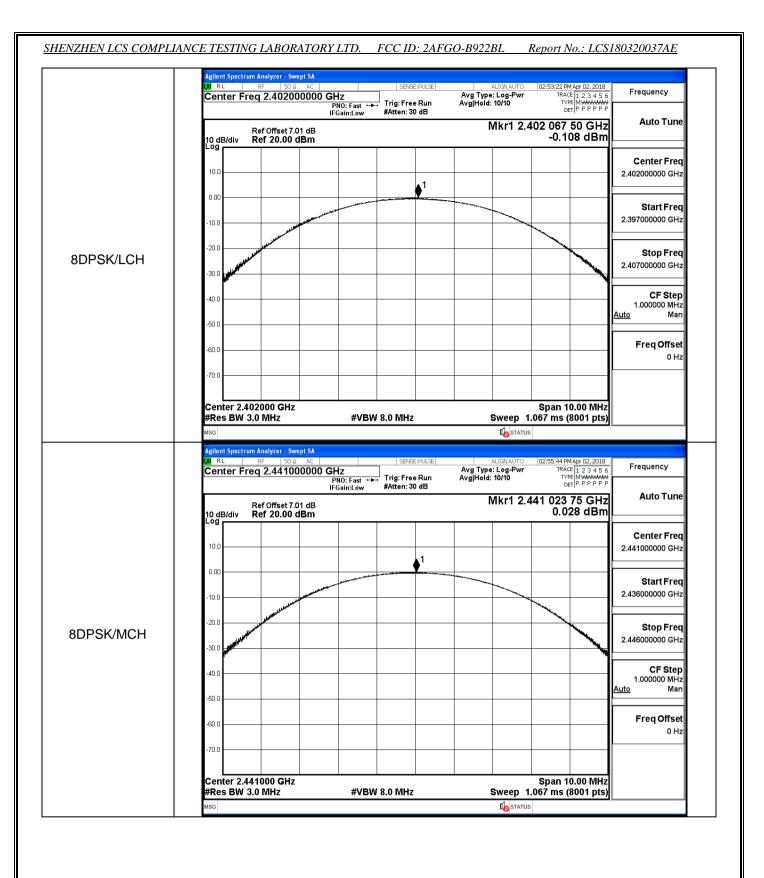
### **A.1 Maxmum Conducted Peak Output Power**

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	0.438	30	PASS
GFSK	MCH	0.625	30	PASS
	НСН	0.761	30	PASS
	LCH	-0.107	21	PASS
π/4DQPSK	MCH	0.016	21	PASS
	НСН	0.185	21	PASS
	LCH	-0.108	21	PASS
8DPSK	8DPSK MCH 0.028		21	PASS
	HCH	0.169	21	PASS





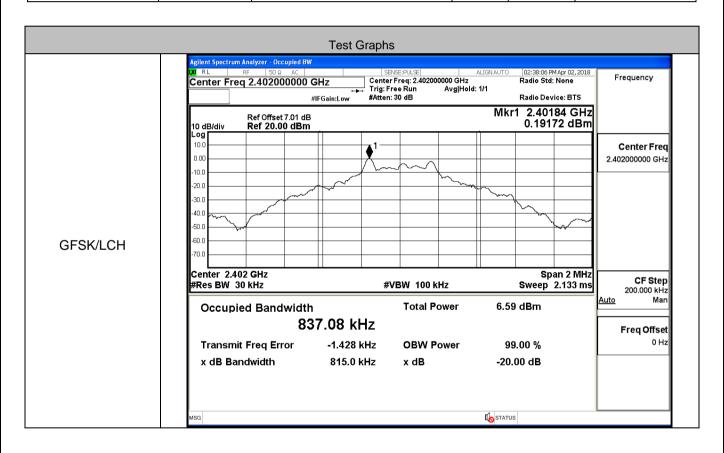


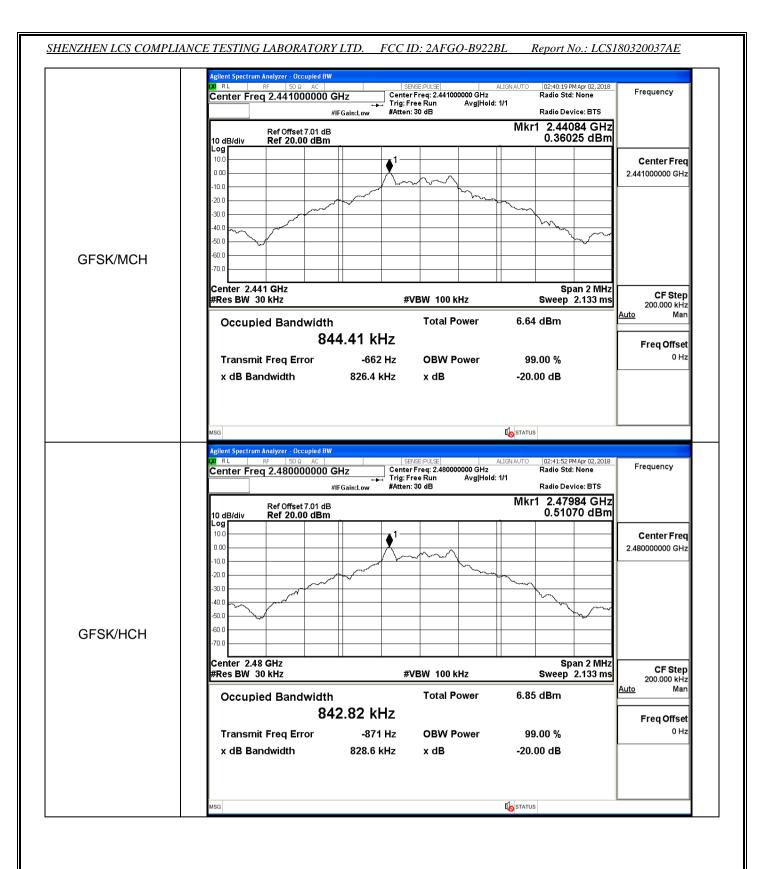


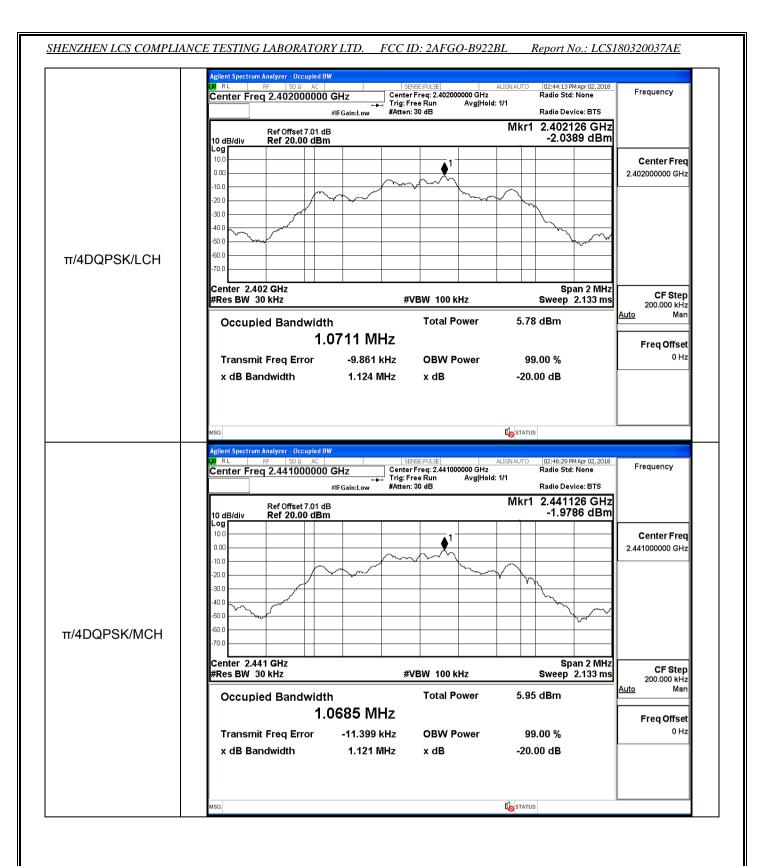
#### SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AFGO-B922BL Report No.: LCS180320037AE Agilent Spectrum Analyzer - Swept SA OTO 02:57:16 PM Apr 02, 2018 TRACE 1 2 3 4 5 6 TYPE MWWWWWW DET P P P P P P Avg Type: Log-Pwr Avg|Hold: 10/10 Frequency Mkr1 2.479 803 75 GHz 0.169 dBm Auto Tune Ref Offset 7.01 dB Ref 20.00 dBm 10 dB/div Log Center Freq 10.0 2.480000000 GHz 0.00 Start Freq 2.475000000 GHz -10.0 -20.0 Stop Freq 8DPSK/HCH 2.485000000 GHz CF Step 1.000000 MHz Man 40.0 <u>Auto</u> -50.0 Freq Offset -60.0 0 Hz -70.0 Center 2.480000 GHz #Res BW 3.0 MHz Span 10.00 MHz Sweep 1.067 ms (8001 pts) **#VBW 8.0 MHz** STATUS

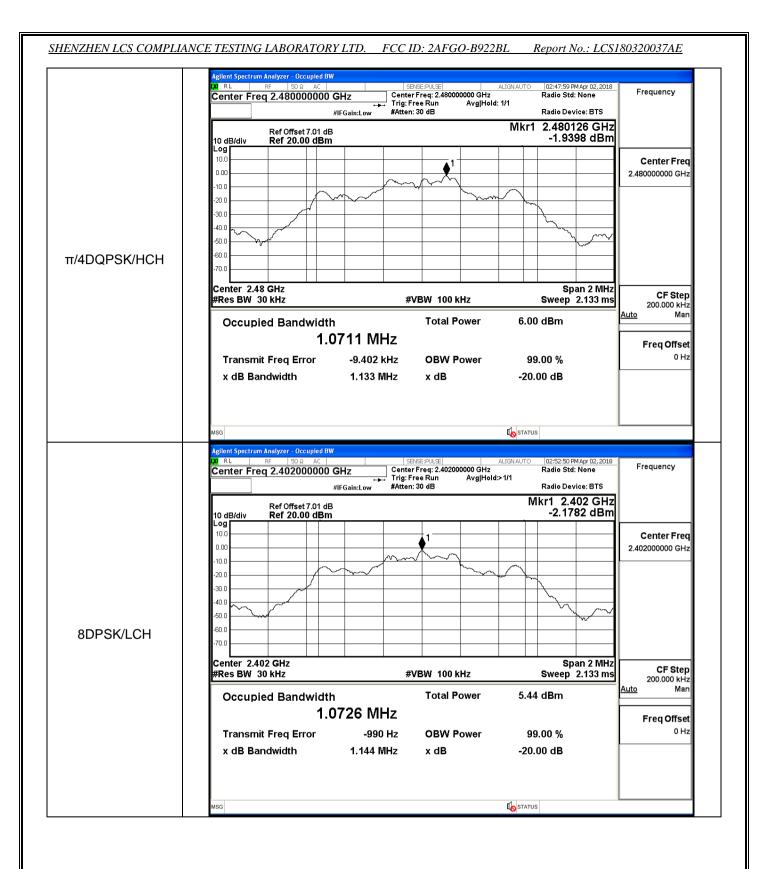
#### A.2 20dB Bandwidth

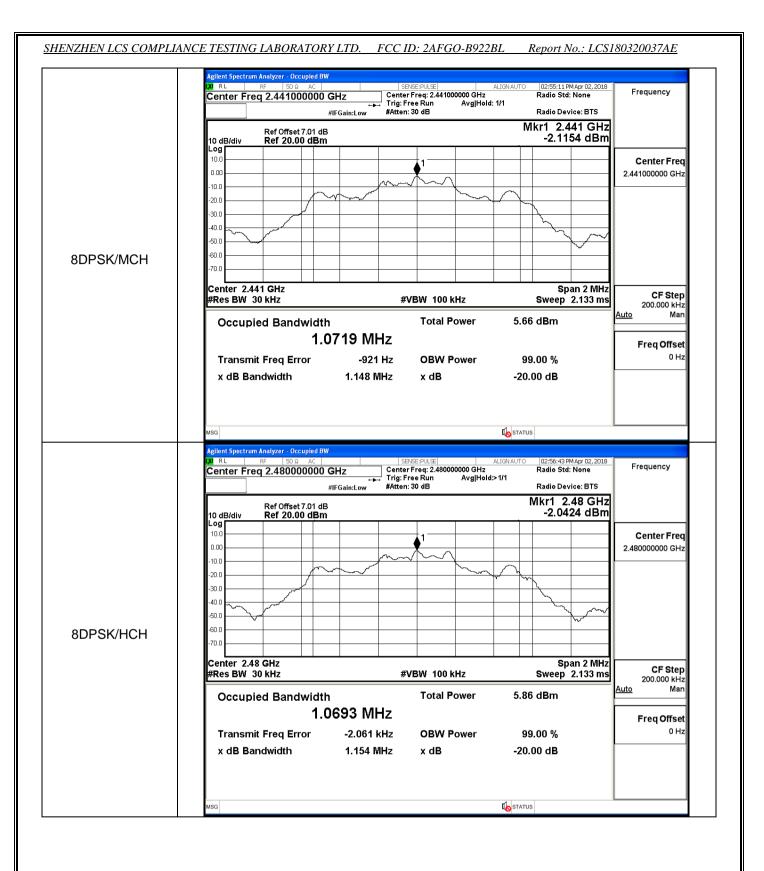
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	0.8150	Not Specified	PASS
GFSK	MCH	0.8264	Not Specified	PASS
	НСН	0.8286	Not Specified	PASS
	LCH	1.124	Not Specified	PASS
π/4DQPSK	MCH	1.121	Not Specified	PASS
	HCH	1.133	Not Specified	PASS
	LCH	1.144	Not Specified	PASS
8DPSK	MCH	1.148	Not Specified	PASS
	HCH	1.154	Not Specified	PASS





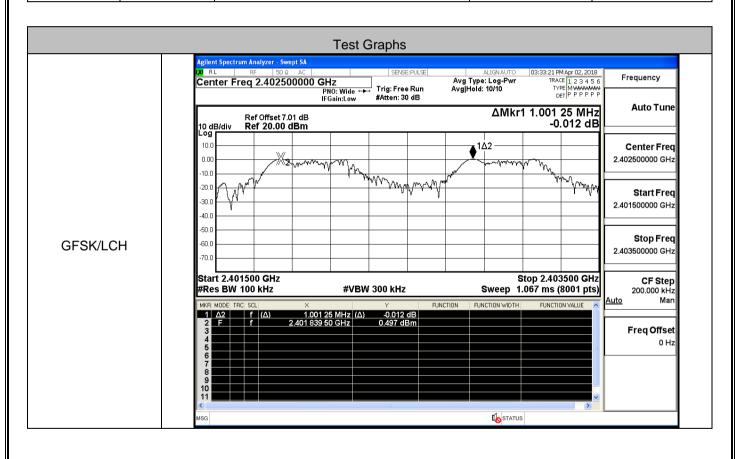


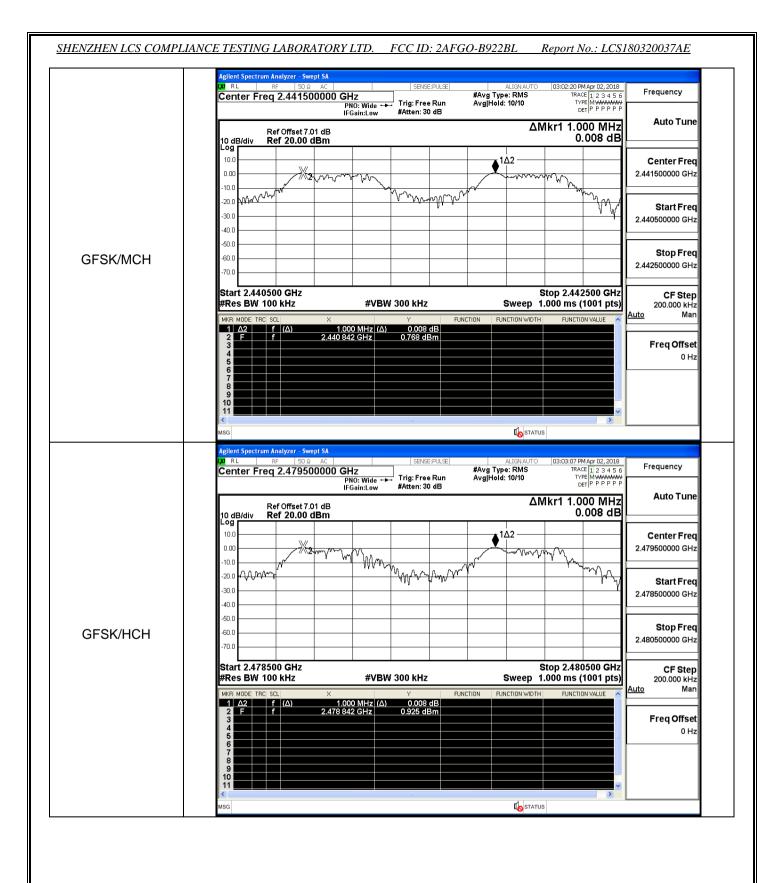


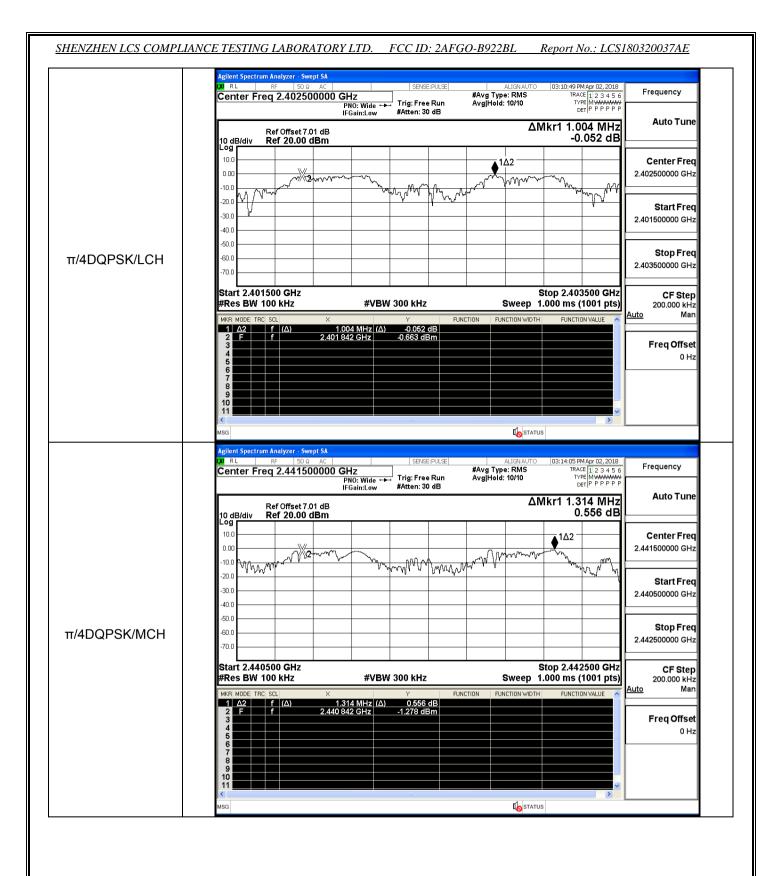


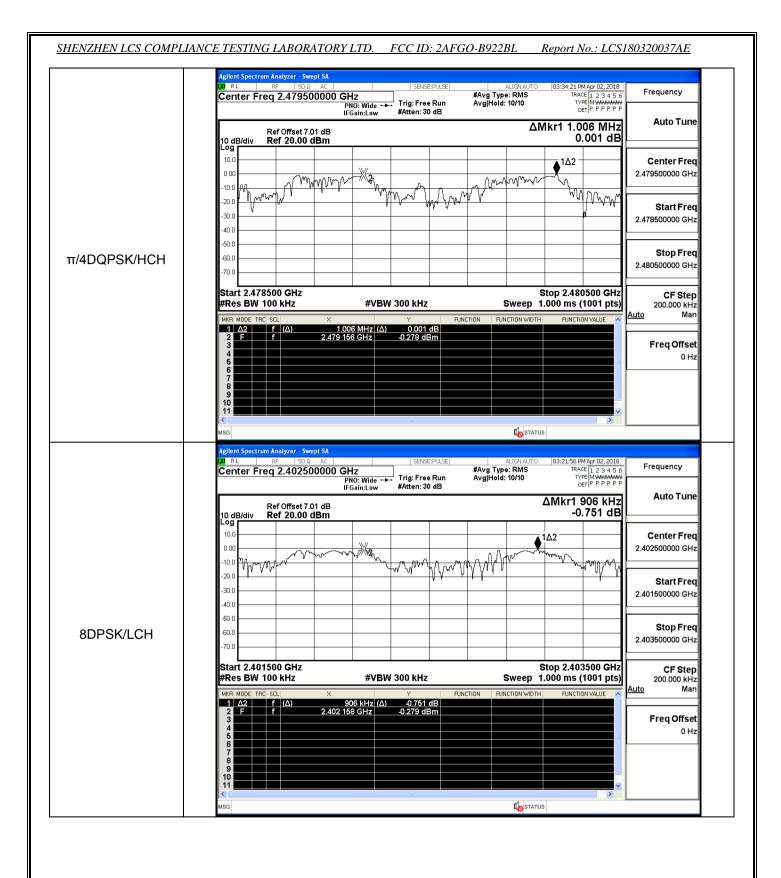
### **A.3 Carrier Frequency Separation**

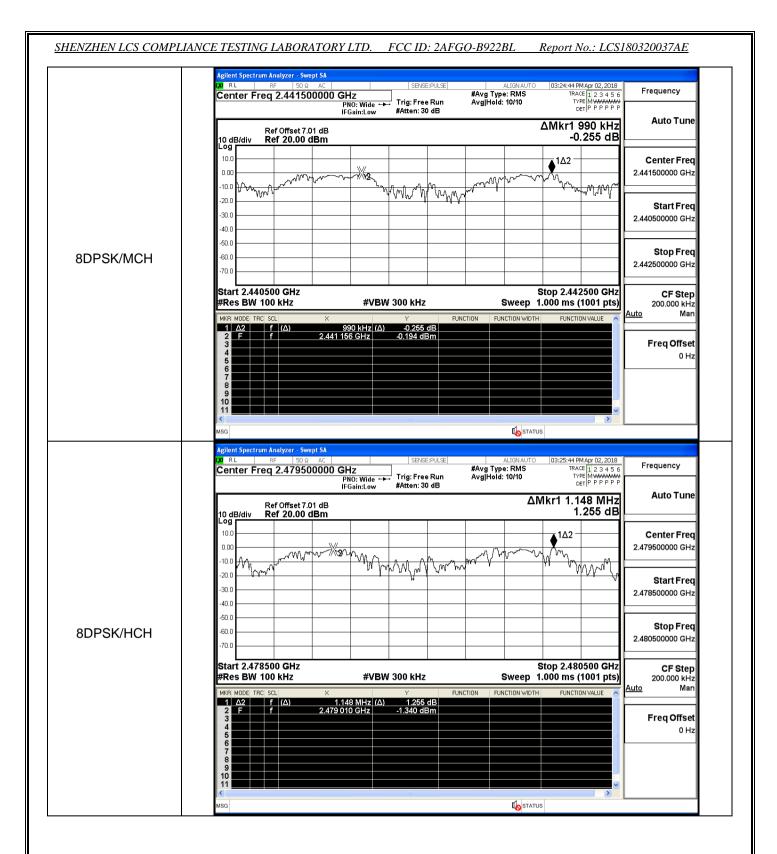
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	1.001	0.552	PASS
GFSK	MCH	1.000	0.552	PASS
	HCH	1.000	0.552	PASS
	LCH	1.004	0.755	PASS
π/4DQPSK	MCH	1.314	0.755	PASS
	НСН	1.006	0.755	PASS
	LCH	0.906	0.769	PASS
8DPSK	MCH	0.990	0.769	PASS
	HCH	1.148	0.769	PASS





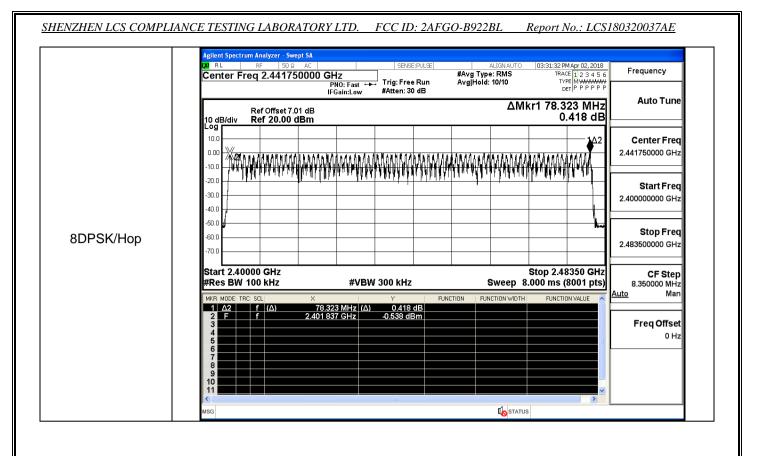






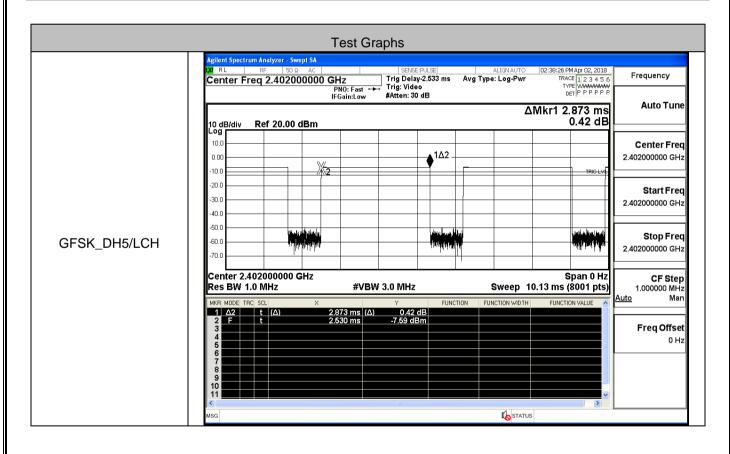
### A.4 Hopping Channel Number

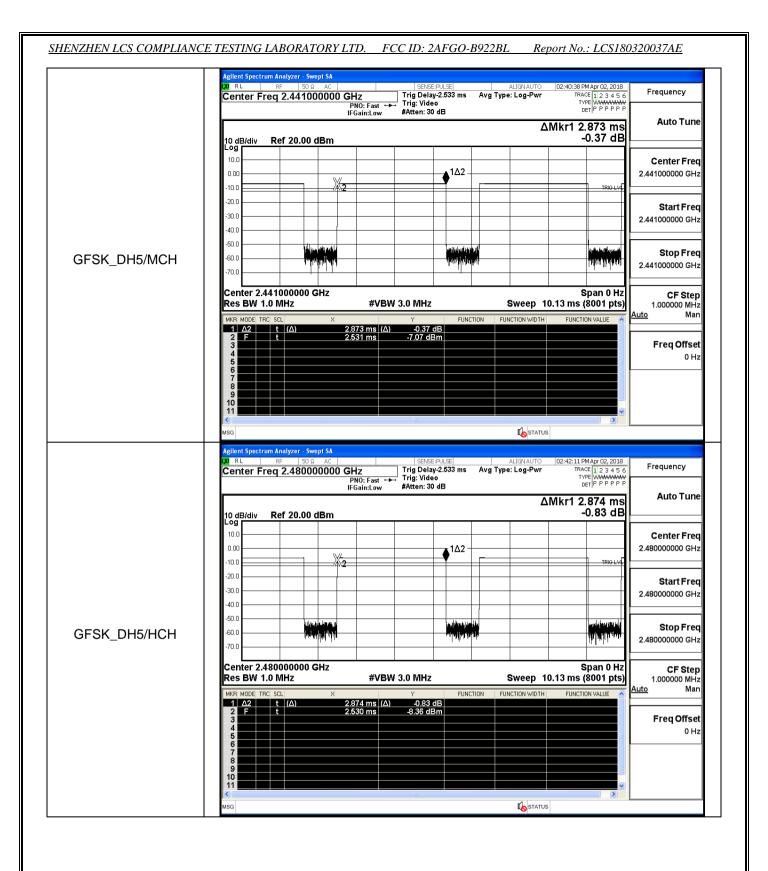
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS
8DPSK	Нор	79	>=15	PASS

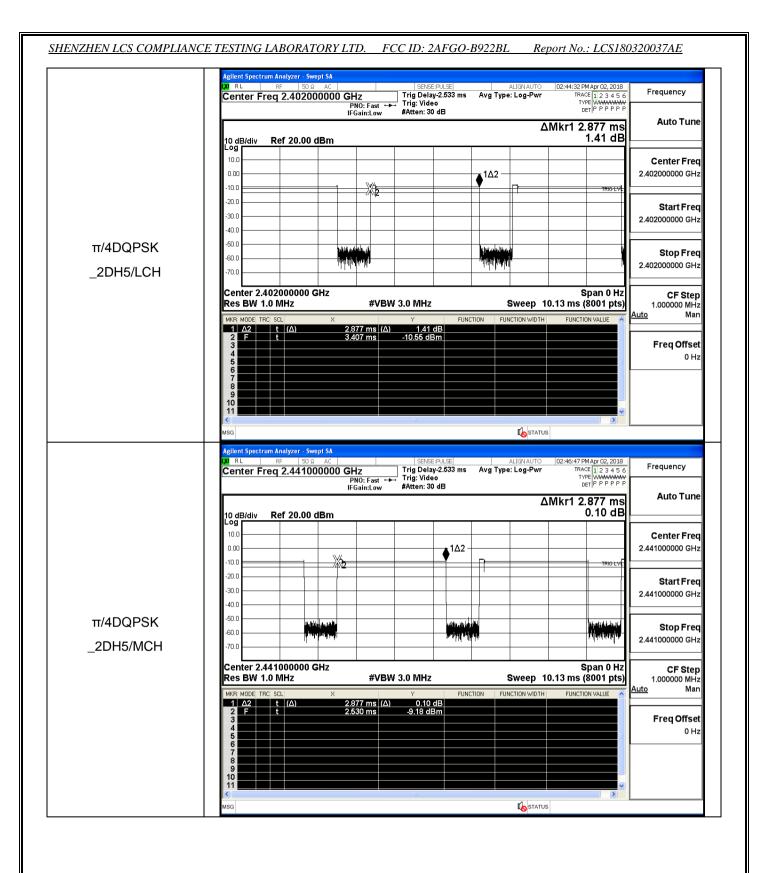


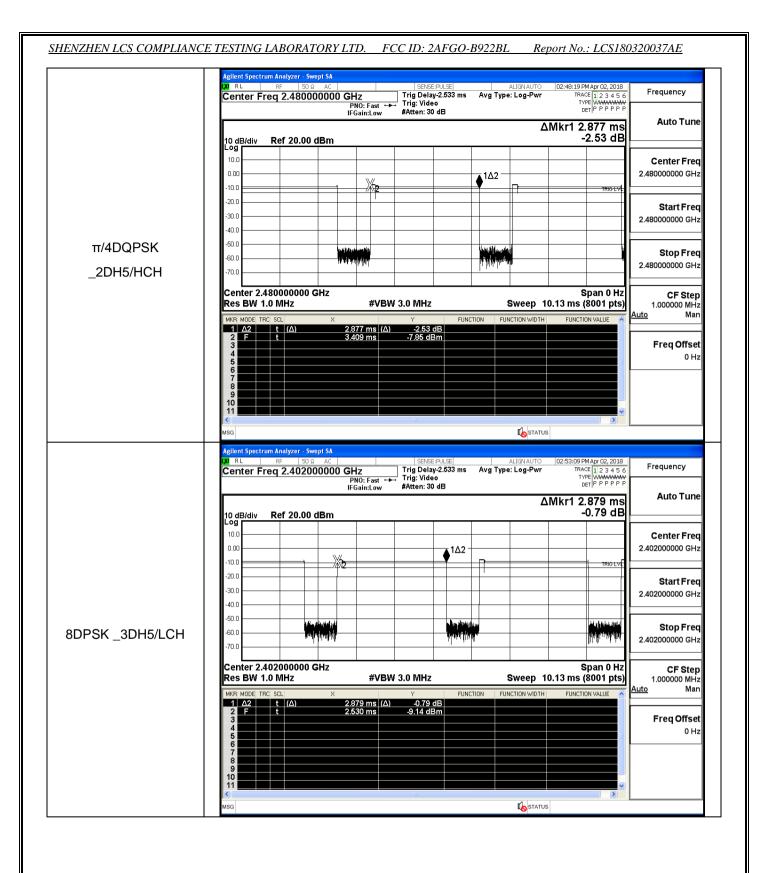
#### A.5 Dwell Time

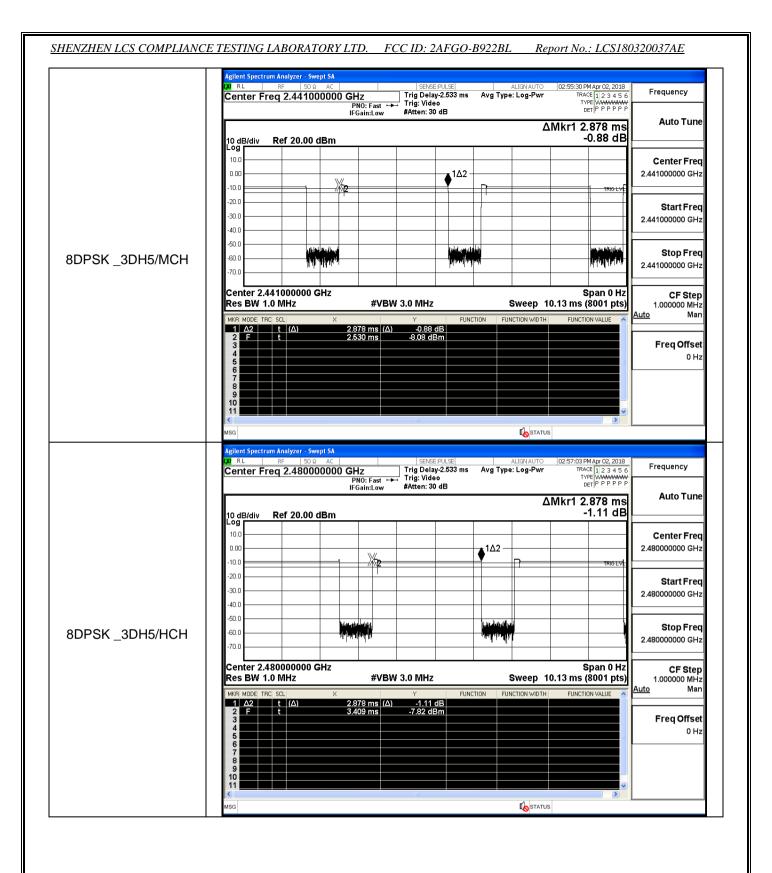
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
	DH5	LCH	2.87	106.7	0.306	0.4	PASS
GFSK	DH5	MCH	2.87	106.7	0.306	0.4	PASS
	DH5	HCH	2.87	106.7	0.306	0.4	PASS
	2DH5	LCH	2.87	106.7	0.307	0.4	PASS
π/4DQPSK	2DH5	MCH	2.87	106.7	0.307	0.4	PASS
	2DH5	НСН	2.87	106.7	0.307	0.4	PASS
	3DH5	LCH	2.87	106.7	0.307	0.4	PASS
8DPSK	3DH5	MCH	2.87	106.7	0.307	0.4	PASS
	3DH5	HCH	2.87	106.7	0.307	0.4	PASS





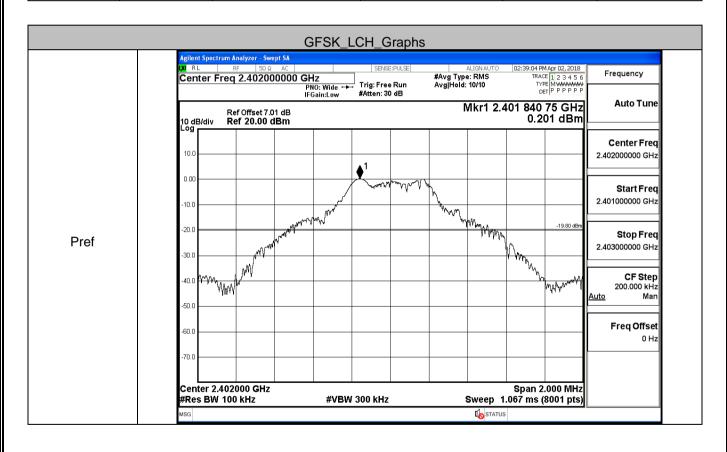




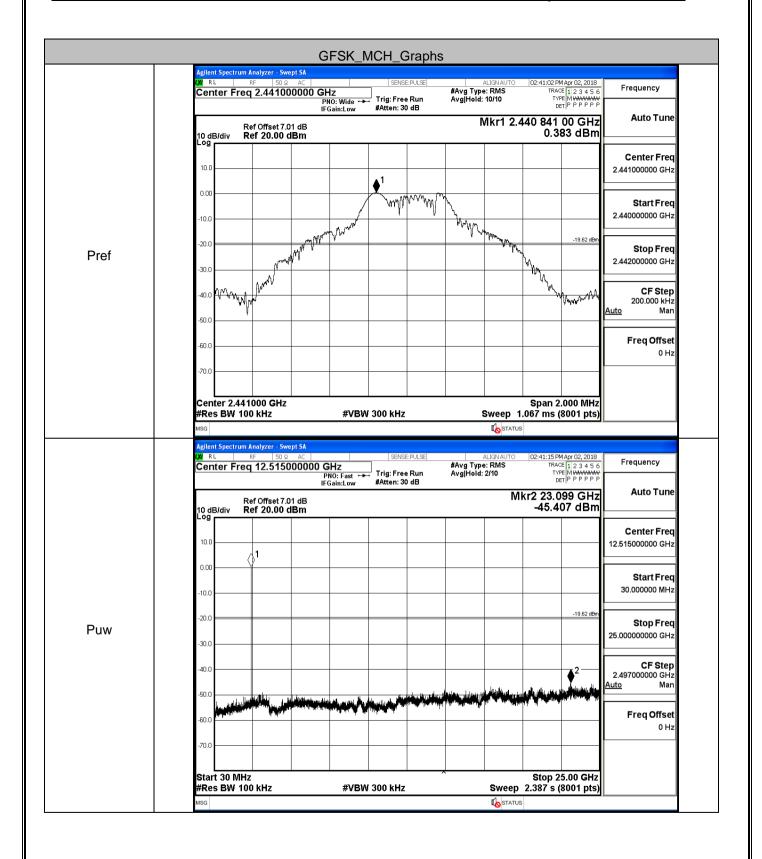


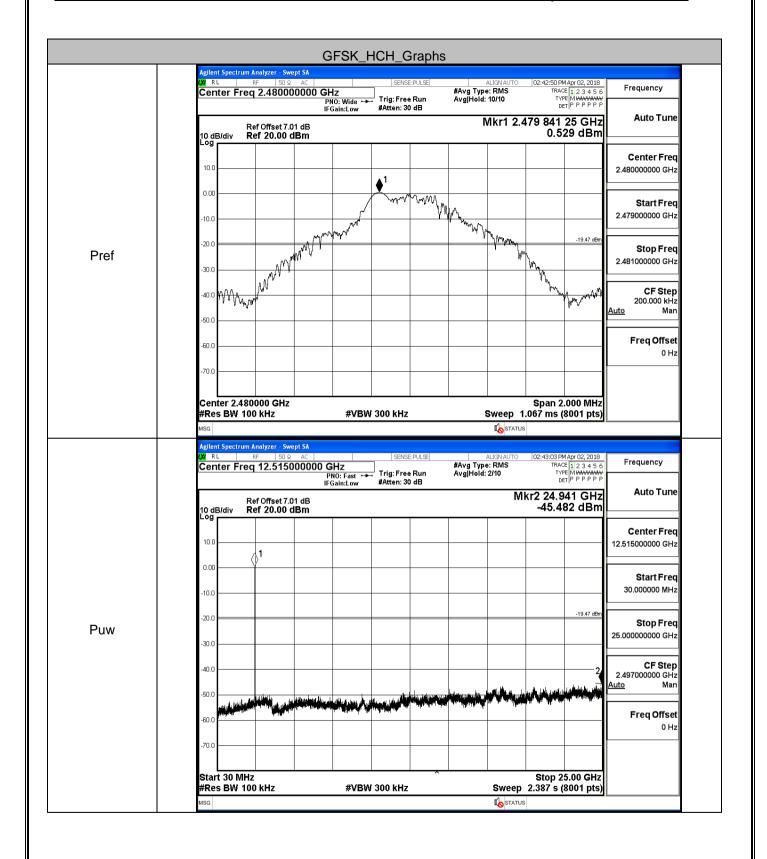
#### A.6 RF Conducted Spurious Emissions

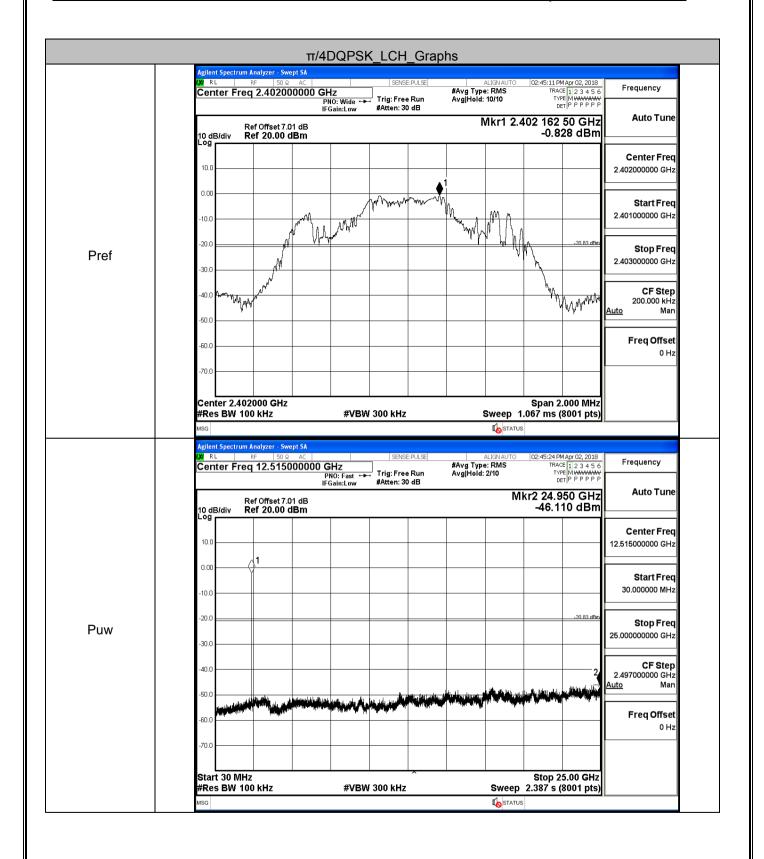
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	0.201	-45.319	-19.799	PASS
GFSK	MCH	0.383	-45.407	-19.617	PASS
	HCH	0.529	-45.482	-19.471	PASS
	LCH	-0.828	-46.110	-20.828	PASS
π/4DQPSK	MCH	-0.682	-46.030	-20.682	PASS
	НСН	-0.76	-45.525	-20.760	PASS
	LCH	-0.846	-45.885	-20.846	PASS
8DPSK	MCH	-0.613	-46.202	-20.613	PASS
	НСН	-0.887	-45.876	-20.887	PASS

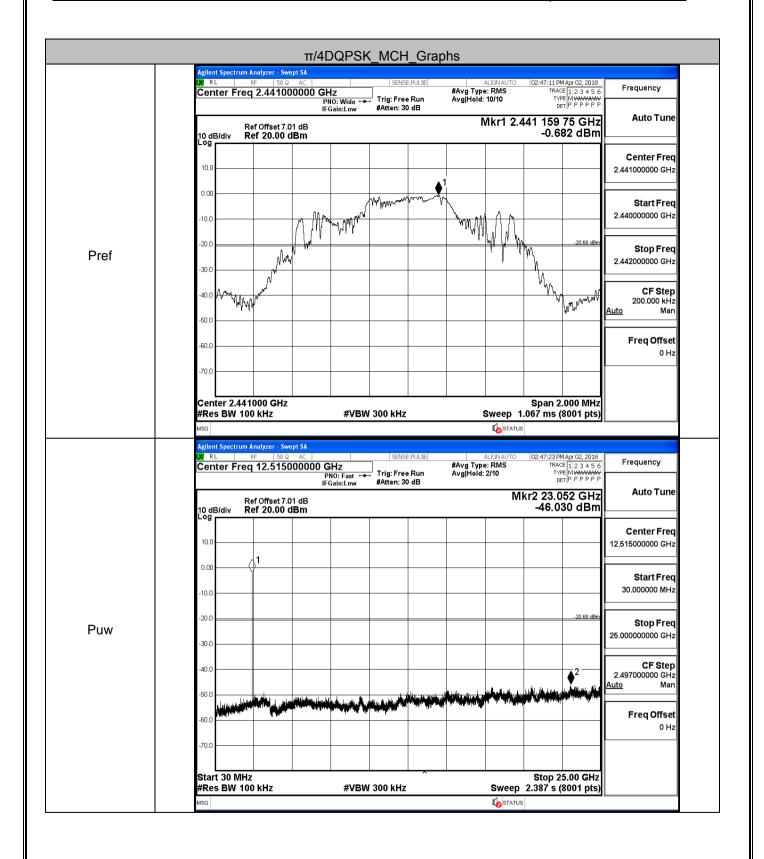


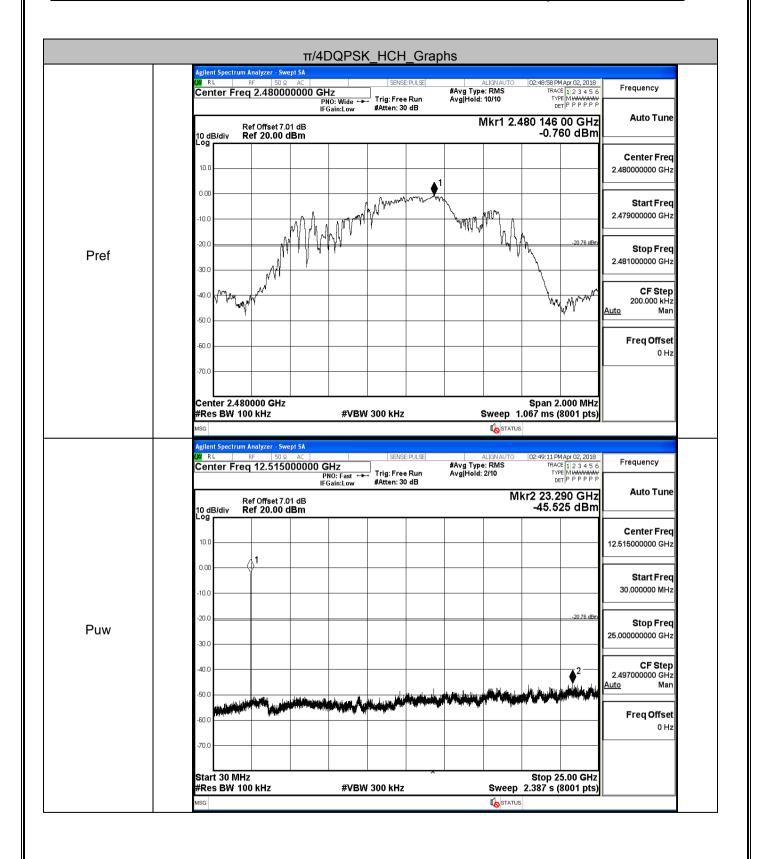
#### SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AFGO-B922BL Report No.: LCS180320037AE Agilent Spectrum Analyzer - Swept SA Agilish Spiss Lune RF | 50 Q AC | Center Freq 12.515000000 GHz PNO: Fast ---- IFGain:Low #Atten: 30 dB 02:39:16 PM Apr 02, 2018 TRACE 1 2 3 4 5 6 TYPE MWWWWWW DET P P P P P #Avg Type: RMS Avg|Hold: 2/10 Frequency Mkr2 23.059 GHz -45.319 dBm Auto Tune Ref Offset 7.01 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 -19.80 dBrr -20.0 Stop Freq Puw 25.000000000 GHz **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

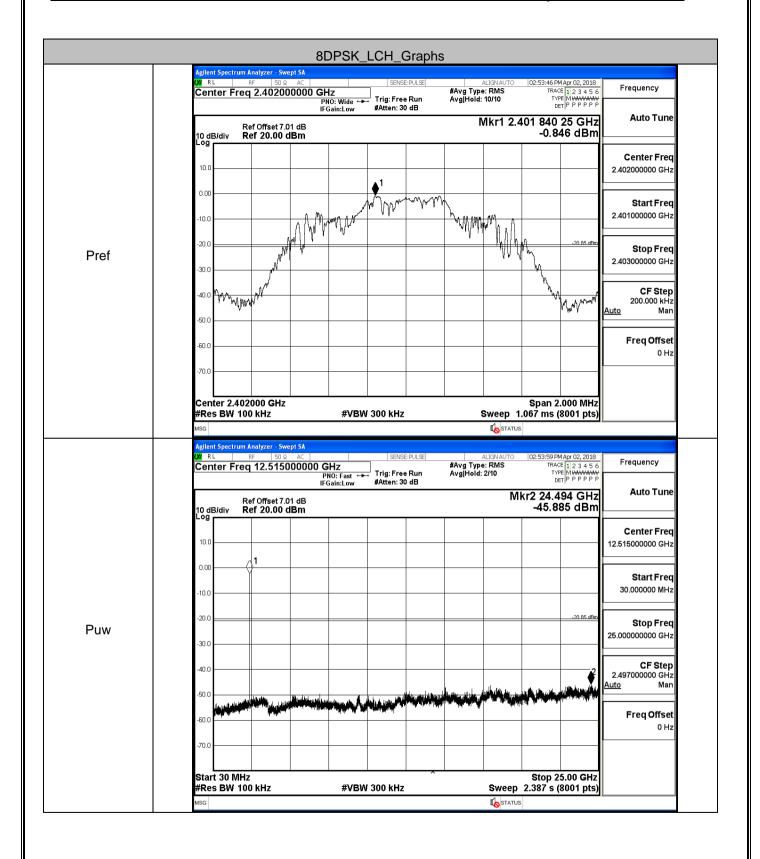


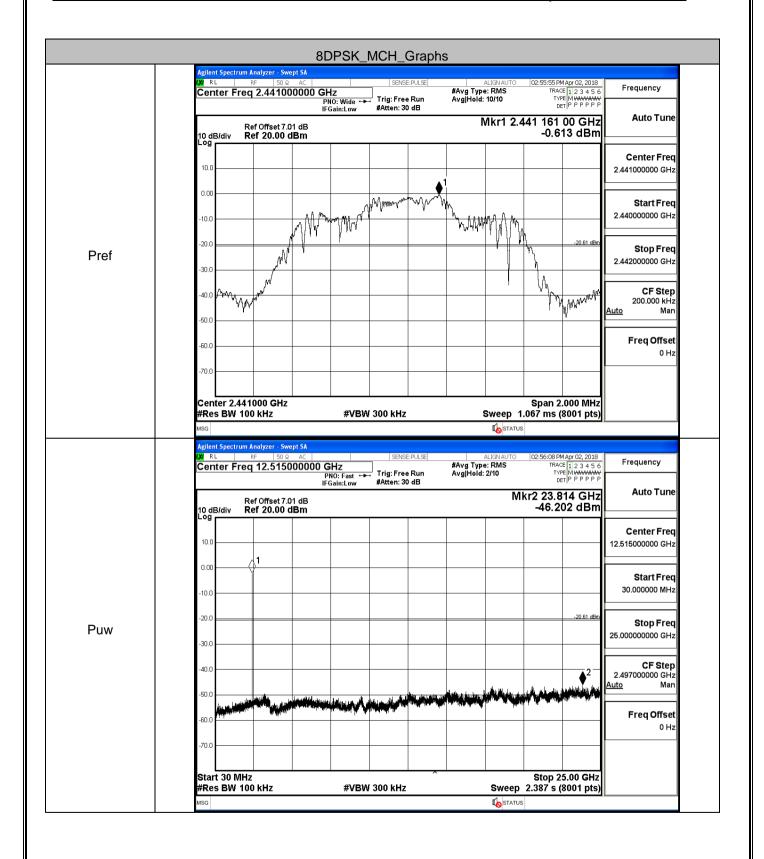


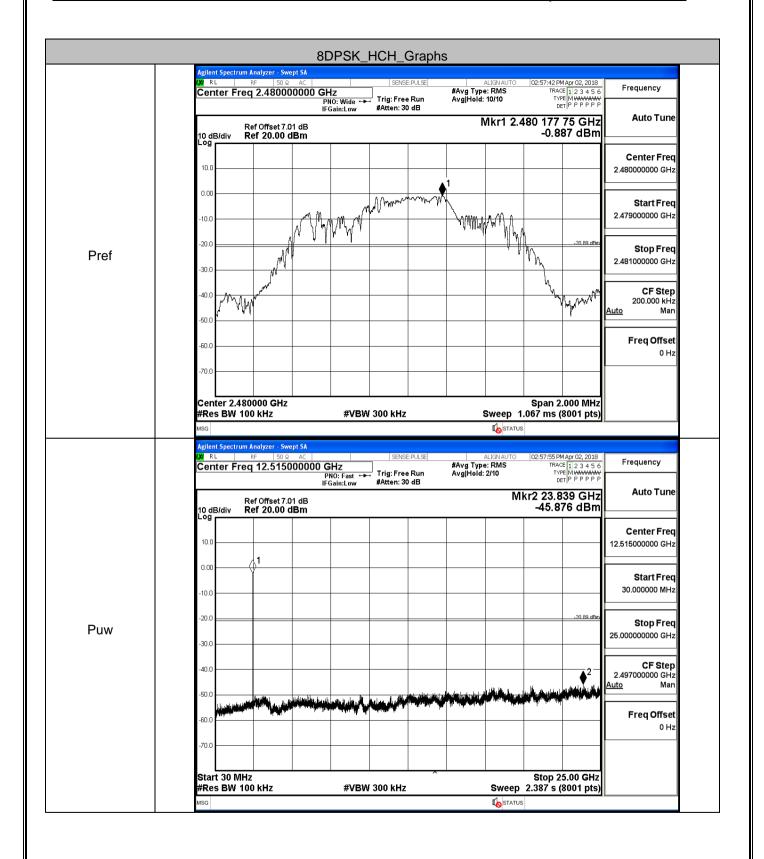






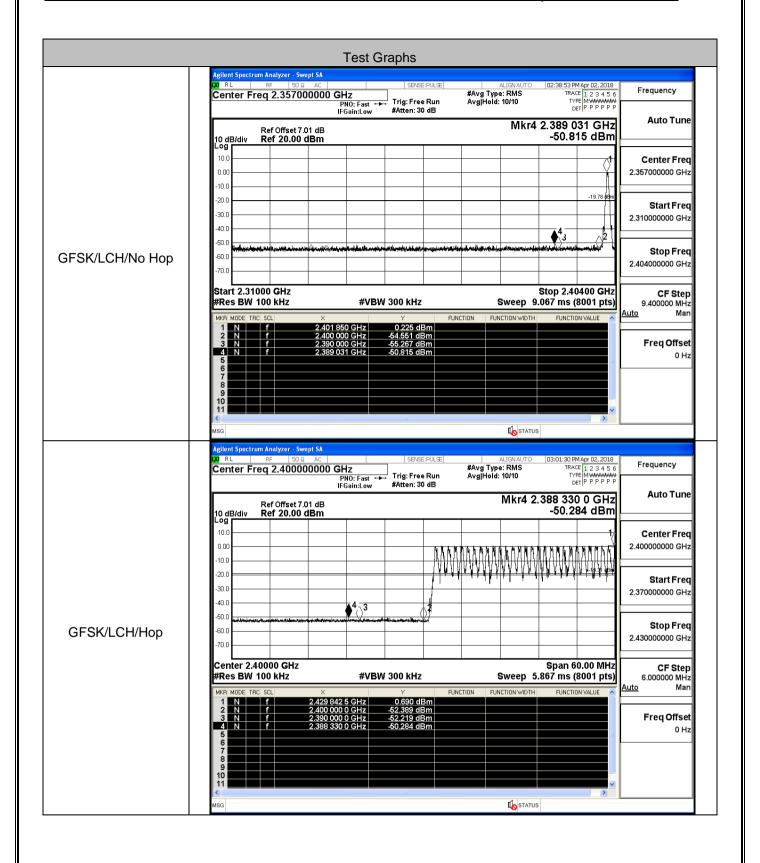


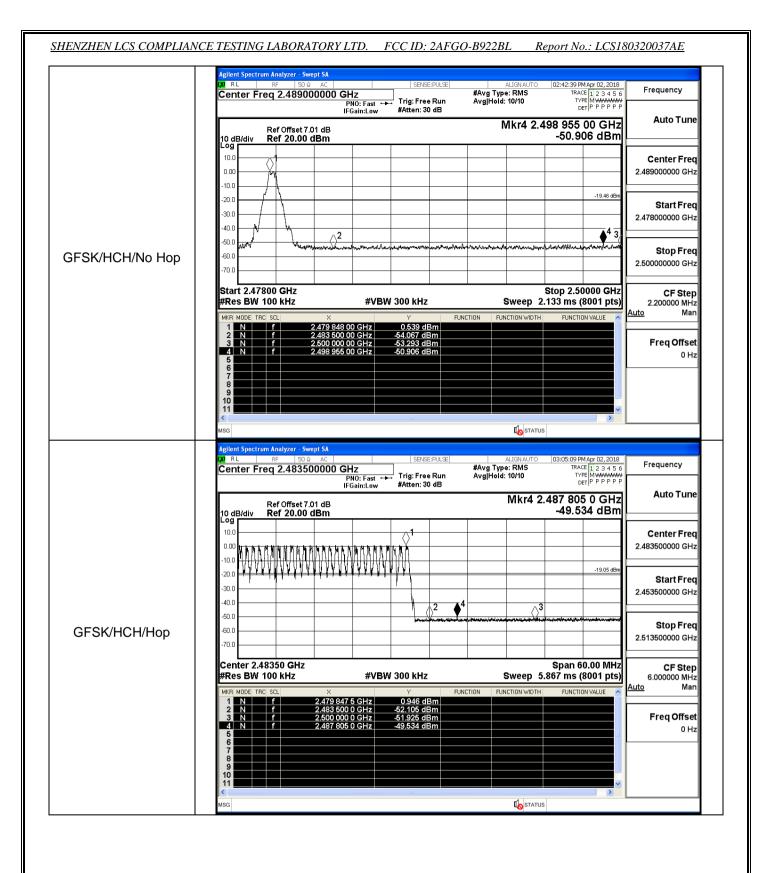


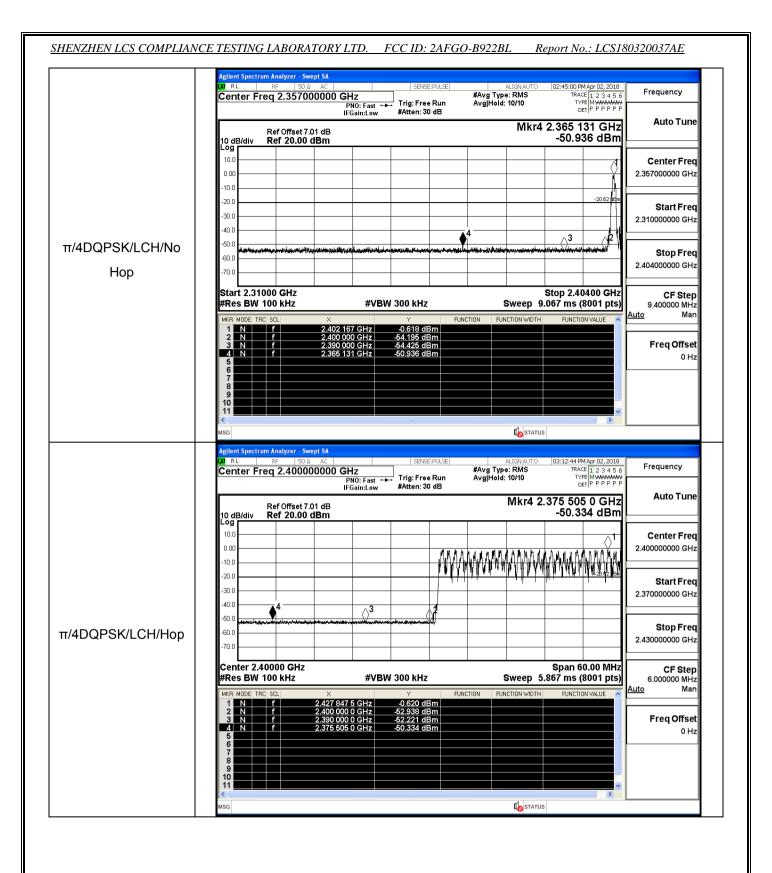


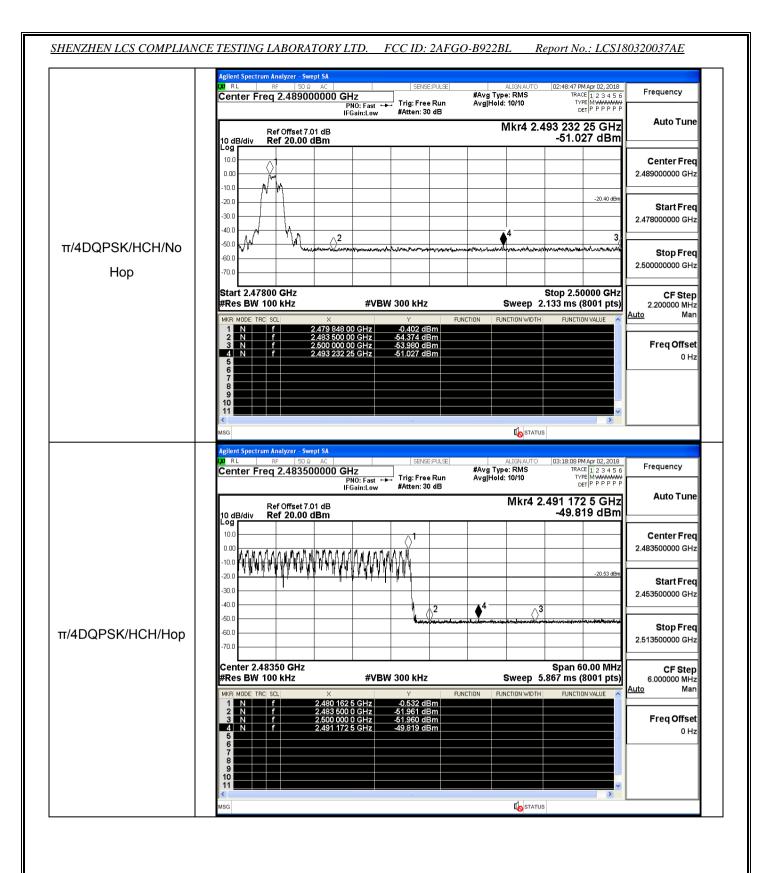
## A.7 Band-edge for RF Conducted Emissions

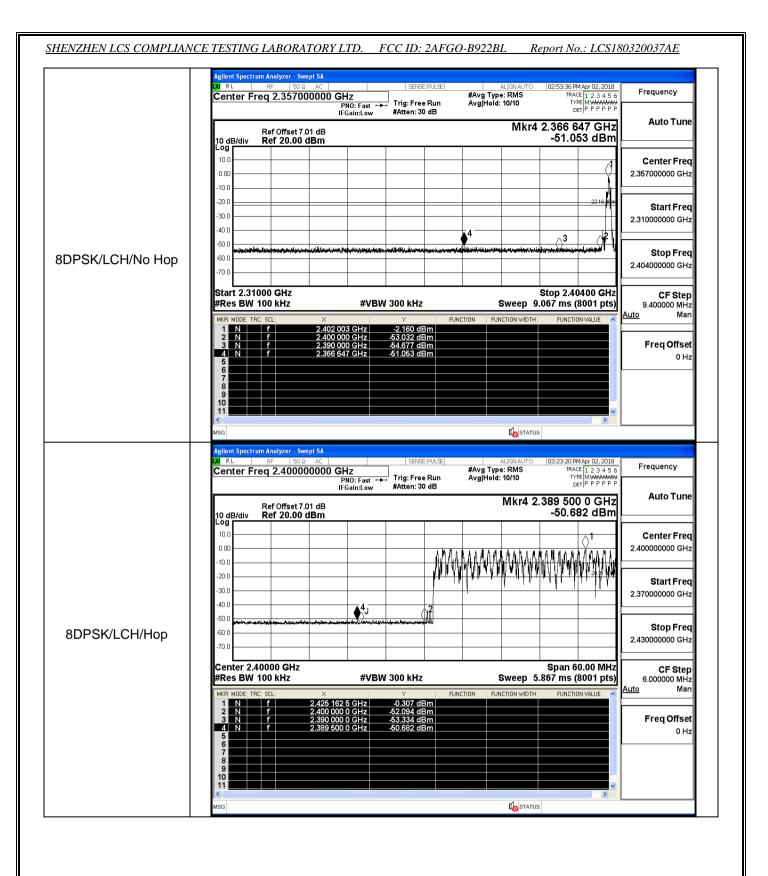
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
		0.400	0.225	Off	-50.815	-19.78	PASS
0.501/	LCH	2402	0.690	On	-50.284	-19.31	PASS
GFSK	нсн	2480	0.539	Off	-50.906	-19.46	PASS
			0.946	On	-49.534	-19.05	PASS
	LCH		-0.618	Off	-50.936	-20.62	PASS
		2402	-0.620	On	-50.334	-20.62	PASS
π/4DQPSK	нсн	2480	-0.402	Off	-51.027	-20.4	PASS
			-0.532	On	-49.819	-20.53	PASS
			-2.160	Off	-51.053	-22.16	PASS
	LCH	2402	-0.307	On	-50.682	-20.31	PASS
8DPSK			-0.630	Off	-50.946	-20.63	PASS
	HCH	2480	-0.100	On	-49.870	-20.1	PASS

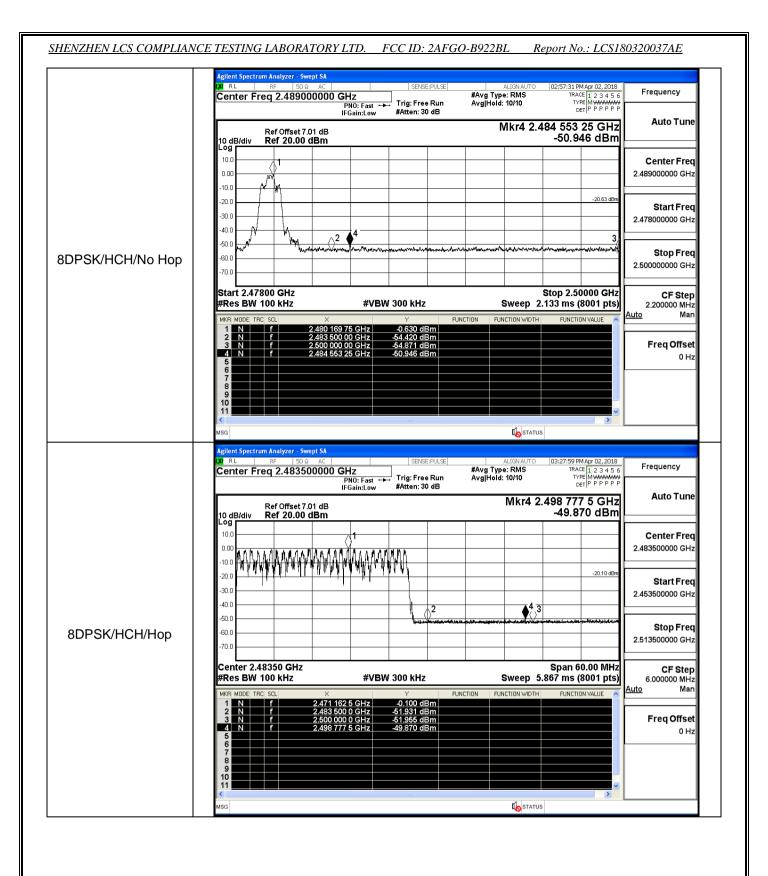






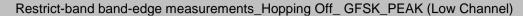


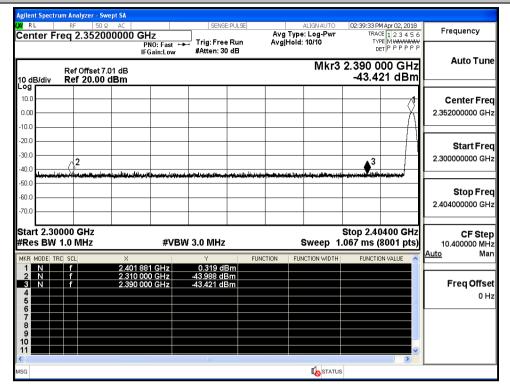




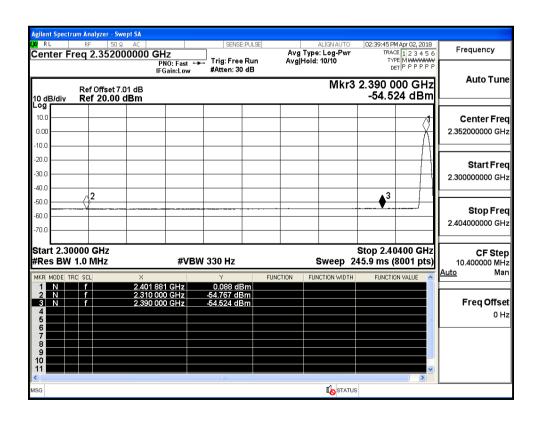
## A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-43.99	2.0	0	51.27	PEAK	74	PASS
	Off	2310.0	-54.77	2.0	0	40.49	AV	54	PASS
	Off	2390.0	-43.42	2.0	0	51.84	PEAK	74	PASS
	Off	2390.0	-54.52	2.0	0	40.73	AV	54	PASS
GFSK	Off	2483.5	-44.75	2.0	0	50.51	PEAK	74	PASS
	Off	2483.5	-54.28	2.0	0	40.98	AV	54	PASS
	Off	2500.0	-44.00	2.0	0	51.25	PEAK	74	PASS
	Off	2500.0	-54.16	2.0	0	41.10	AV	54	PASS
	Off	2310.0	-45.59	2.0	0	49.66	PEAK	74	PASS
	Off	2310.0	-54.82	2.0	0	40.43	AV	54	PASS
	Off	2390.0	-44.91	2.0	0	50.35	PEAK	74	PASS
	Off	2390.0	-54.54	2.0	0	40.72	AV	54	PASS
π/4DQPSK	Off	2483.5	-44.34	2.0	0	50.91	PEAK	74	PASS
	Off	2483.5	-54.22	2.0	0	41.04	AV	54	PASS
	Off	2500.0	-43.12	2.0	0	52.13	PEAK	74	PASS
	Off	2500.0	-54.01	2.0	0	41.25	AV	54	PASS
	Off	2310.0	-44.43	2.0	0	50.83	PEAK	74	PASS
	Off	2310.0	-54.74	2.0	0	40.52	AV	54	PASS
	Off	2390.0	-44.05	2.0	0	51.21	PEAK	74	PASS
	Off	2390.0	-54.53	2.0	0	40.73	AV	54	PASS
8DPSK	Off	2483.5	-43.70	2.0	0	51.56	PEAK	74	PASS
	Off	2483.5	-54.37	2.0	0	40.88	AV	54	PASS
	Off	2500.0	-43.66	2.0	0	51.60	PEAK	74	PASS
	Off	2500.0	-54.14	2.0	0	41.12	AV	54	PASS

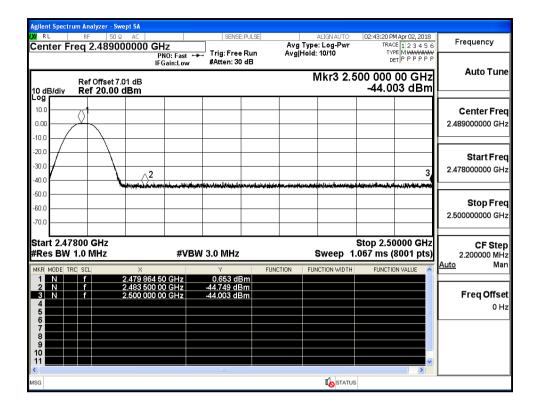




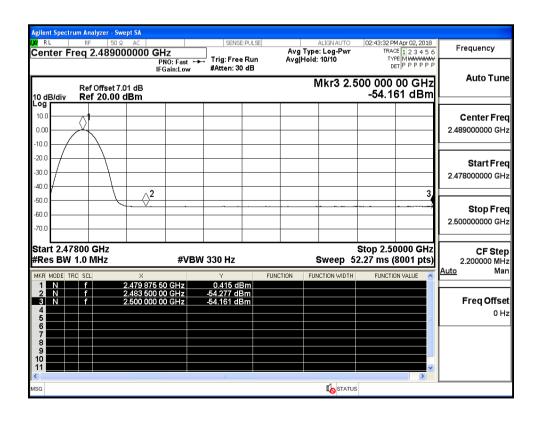
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (Low Channel)



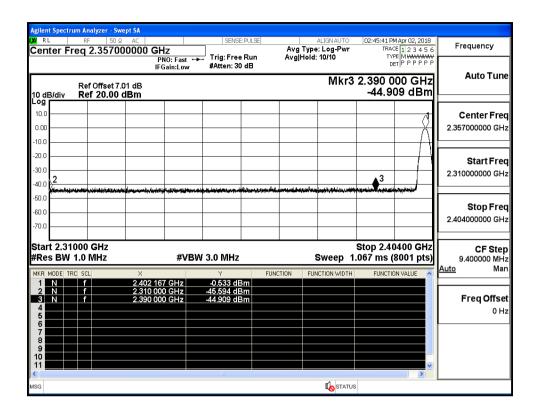
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_PEAK (High Channel)



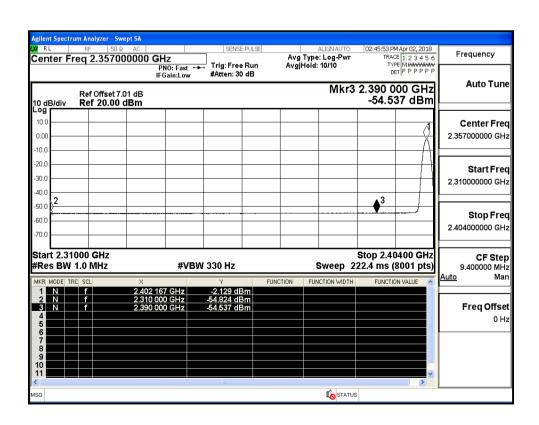
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (High Channel)



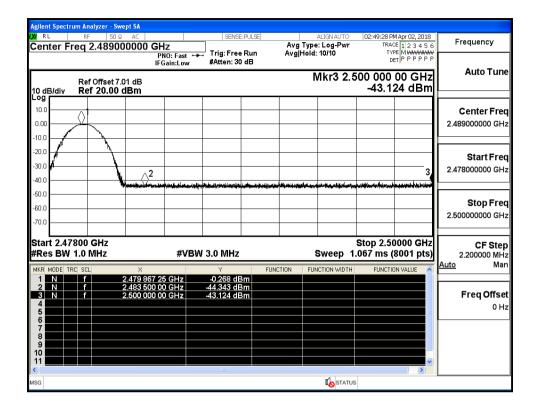
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (Low Channel)



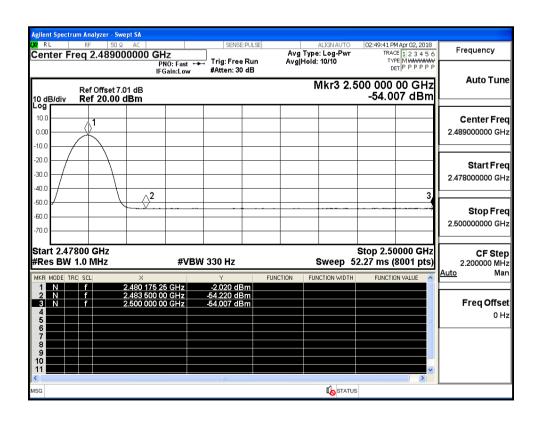
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (Low Channel)



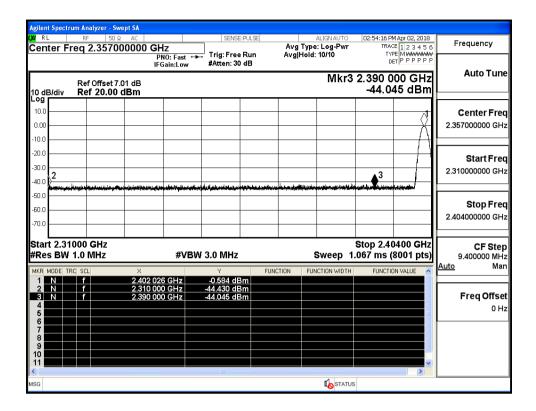
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (High Channel)



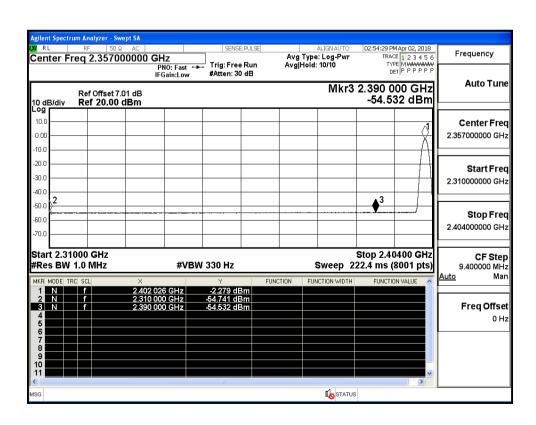
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (High Channel)



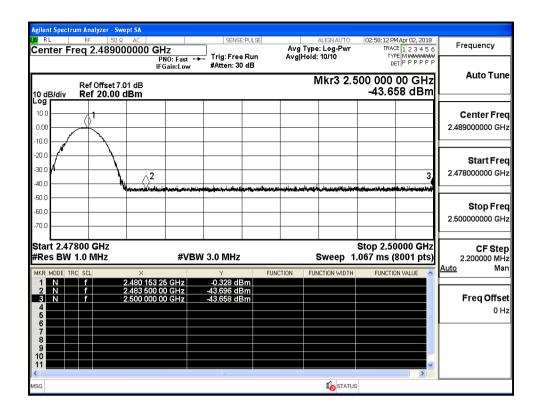
#### Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_PEAK (Low Channel)



#### 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)

