Appendix A

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

Product Name: Huohuotu wifi digital player early educational machine

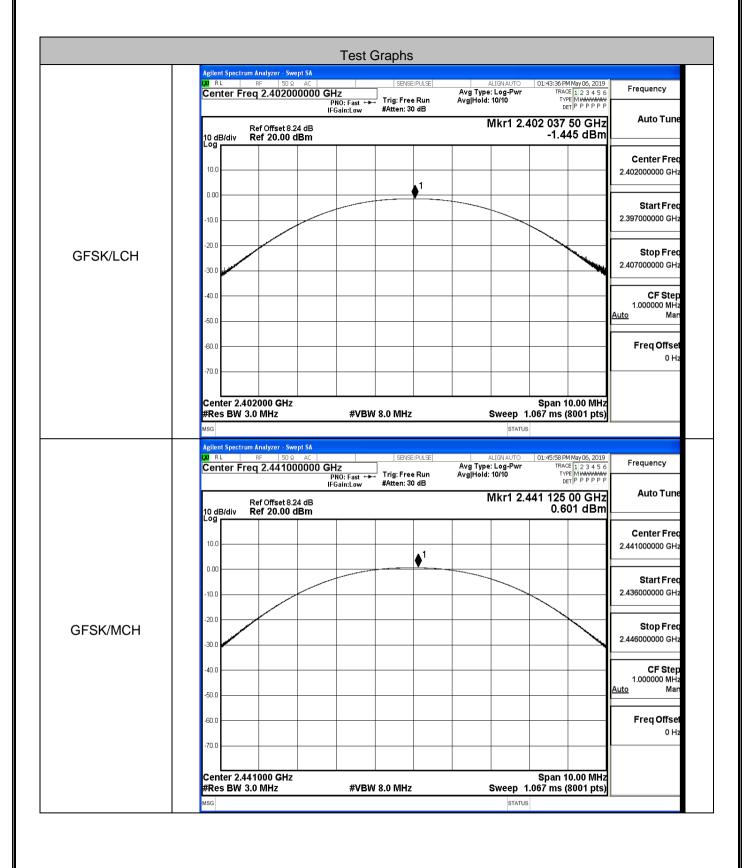
Trade Mark: alilo Test Model: G6S

Environmental Conditions

Temperature:	23.6 ° C
Relative Humidity:	54.2%
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	-1.445	30	PASS
GFSK	MCH	0.601	30	PASS
	НСН	0.514	30	PASS
	LCH	-2.140	21	PASS
π/4DQPSK	MCH	-0.045	21	PASS
	HCH	-0.158	21	PASS
	LCH	-1.985	21	PASS
8DPSK	8DPSK MCH 0.094		21	PASS
	HCH	-0.061	21	PASS



#VBW 8.0 MHz

Freq Offset

Span 10.00 MHz Sweep 1.067 ms (8001 pts)

STATUS

0 Hz

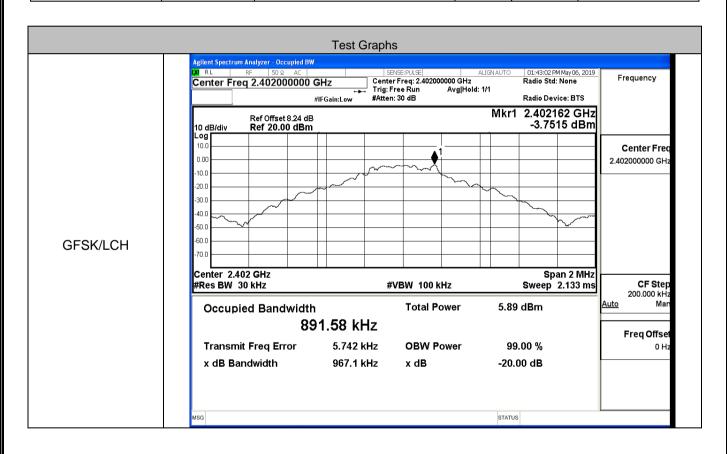
-50.0

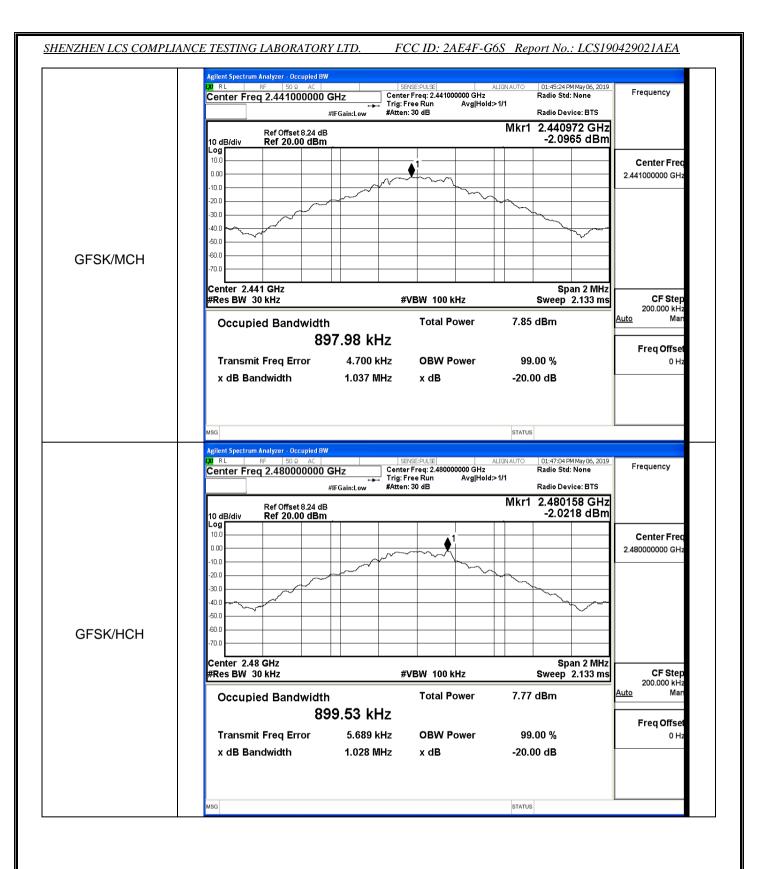
-60.0

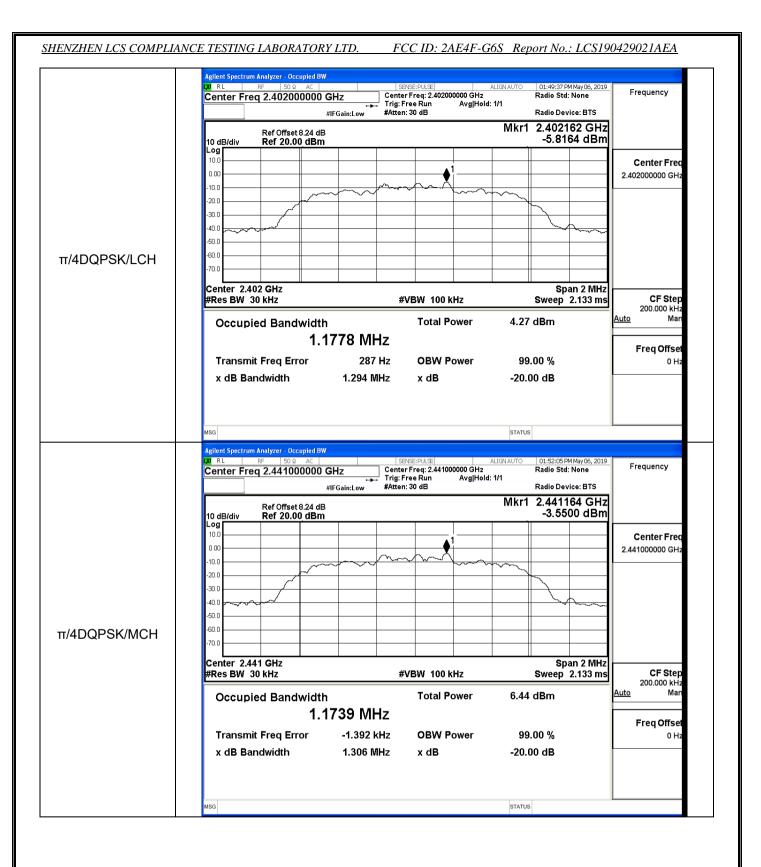
Center 2.480000 GHz #Res BW 3.0 MHz

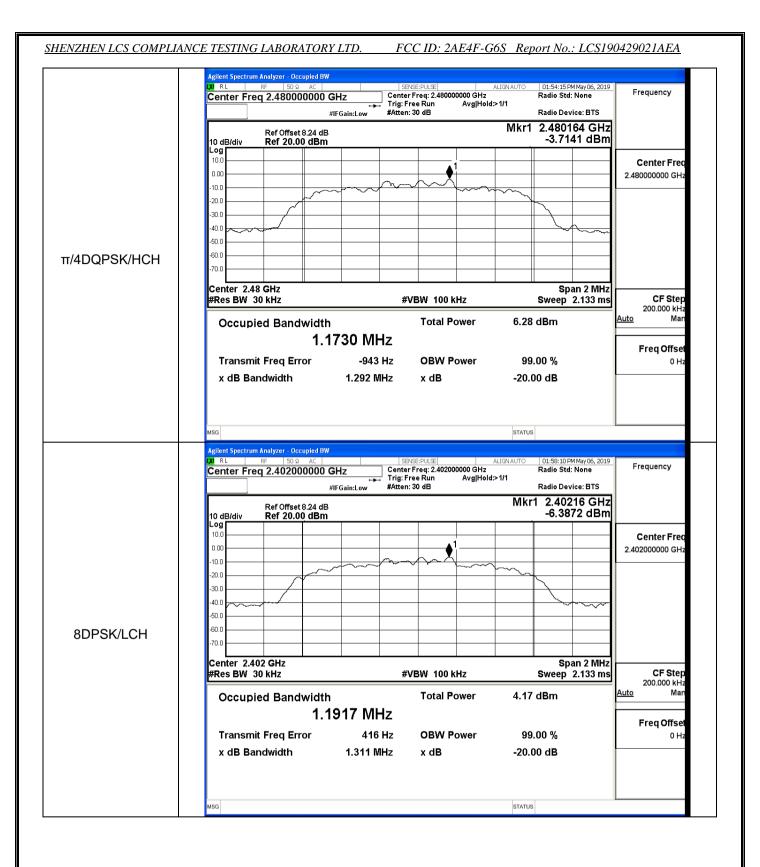
A.2 20dB Bandwidth

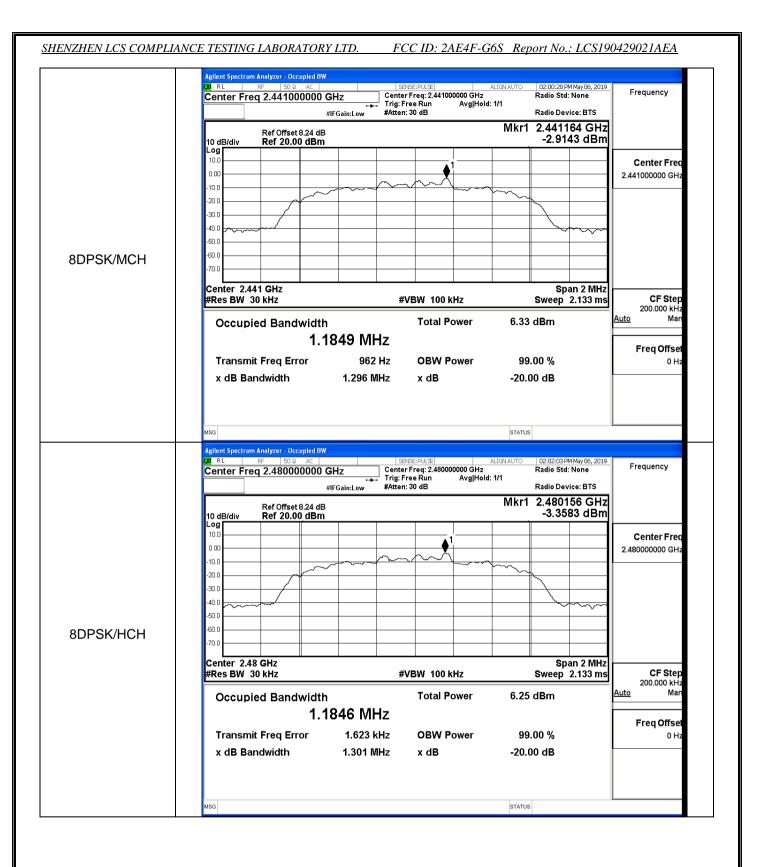
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	0.9671	Not Specified	PASS
GFSK	MCH	1.037	Not Specified	PASS
	HCH	1.028	Not Specified	PASS
π/4DQPSK	LCH	1.294	Not Specified	PASS
	MCH	1.306	Not Specified	PASS
	HCH	1.292	Not Specified	PASS
	LCH	1.311	Not Specified	PASS
8DPSK	MCH	1.296	Not Specified	PASS
	HCH	1.301	Not Specified	PASS





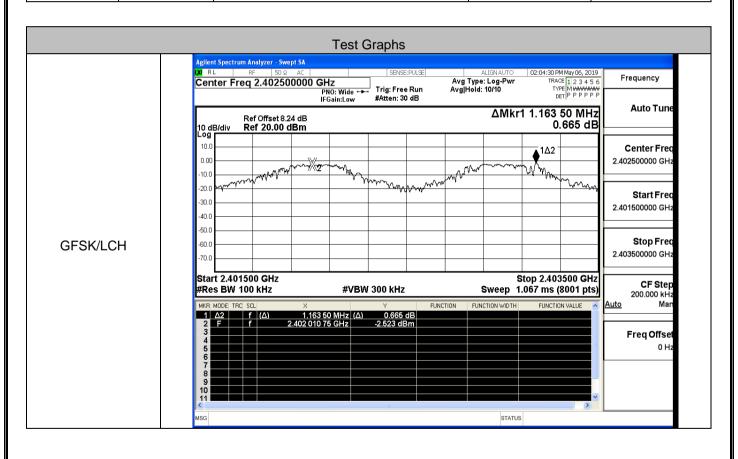


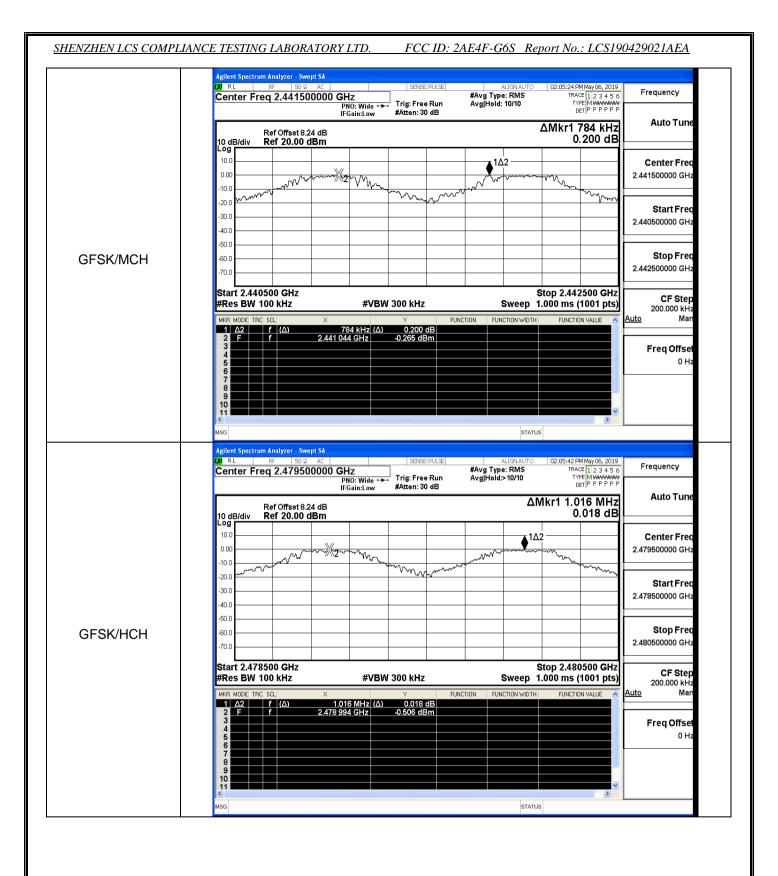


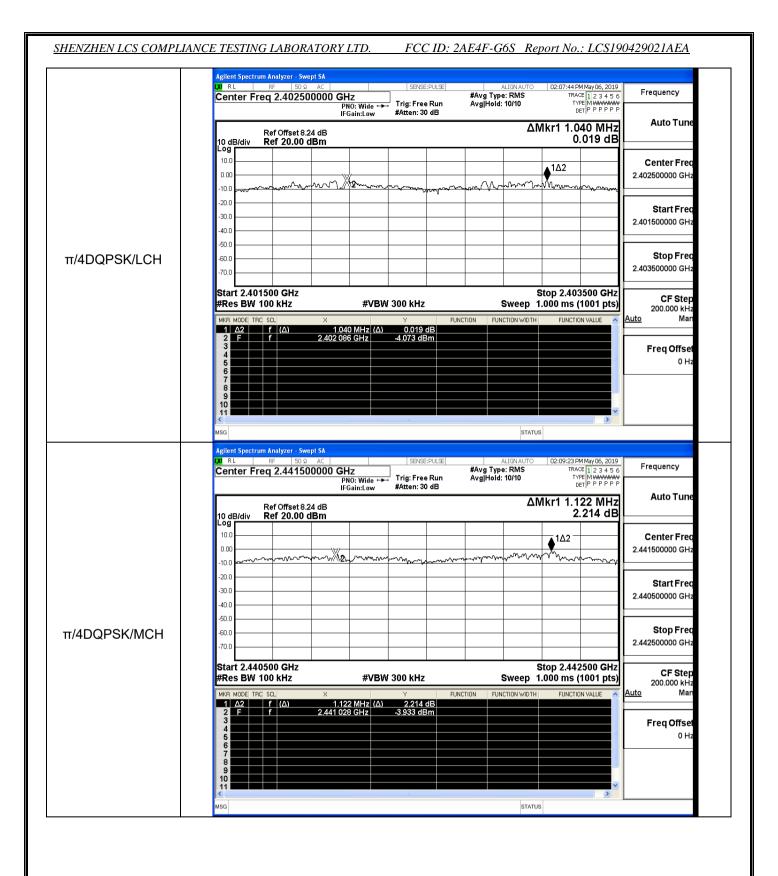


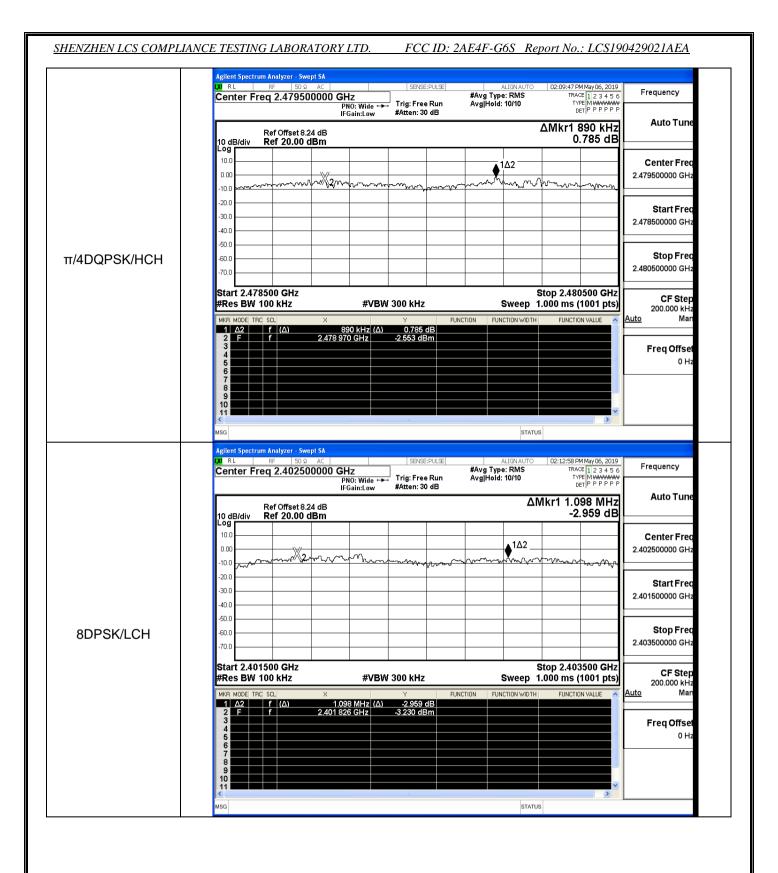
A.3 Carrier Frequency Separation

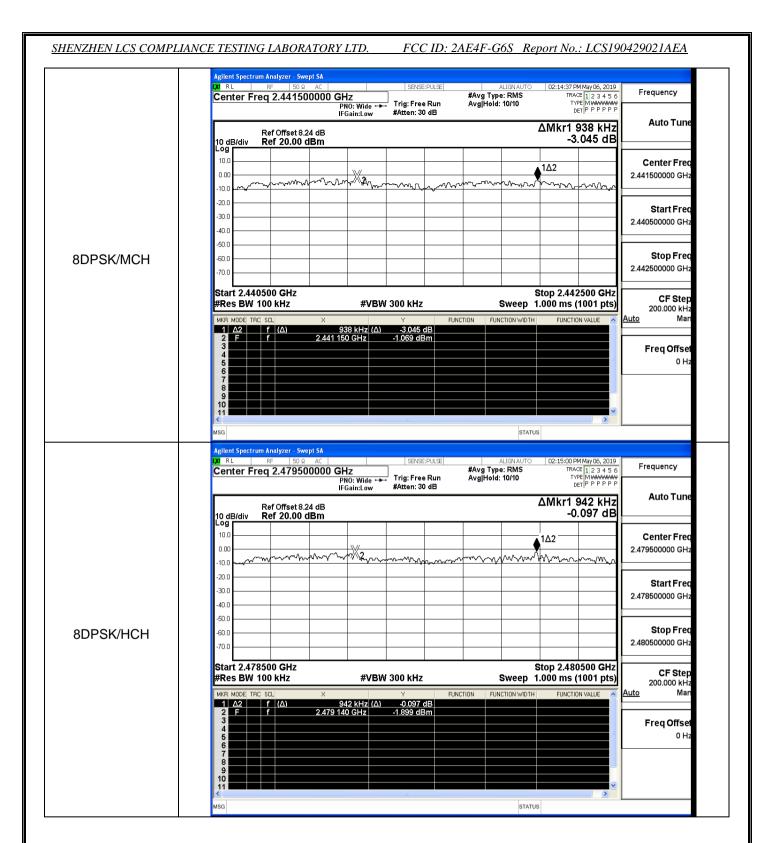
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	1.164	0.691	PASS
GFSK	MCH	0.784	0.691	PASS
	HCH	1.016	0.691	PASS
	LCH	1.040	0.871	PASS
π/4DQPSK	MCH	1.122	0.871	PASS
	HCH	0.890	0.871	PASS
	LCH	1.098	0.874	PASS
8DPSK	MCH	0.938	0.874	PASS
	HCH	0.942	0.874	PASS





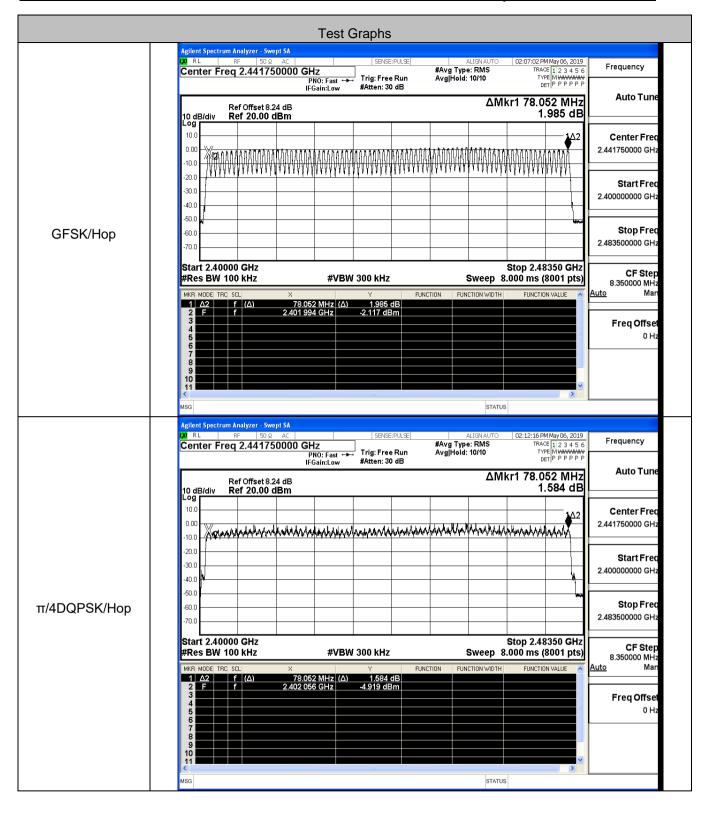






A.4 Hopping Channel Number

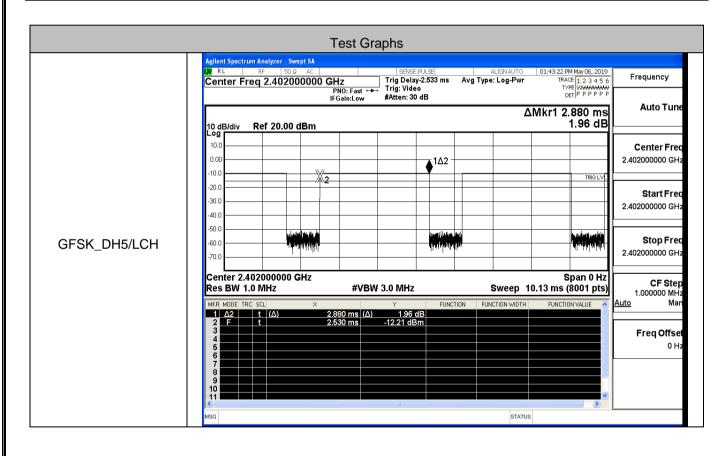
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS
8DPSK	Нор	79	>=15	PASS



FCC ID: 2AE4F-G6S Report No.: LCS190429021AEA SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. Agilent Spectrum Analyzer - Swept SA IX RL RF 50 \(\Omega \) AC | Center Freq 2.441750000 GHz 02:17:30 PM May 06, 2019 TRACE 1 2 3 4 5 6 TYPE M WWWWWW DET P P P P P P #Avg Type: RMS Avg|Hold: 10/10 Frequency PNO: Fast ↔ IFGain:Low Trig: Free Run #Atten: 30 dB **Auto Tune** ΔMkr1 78.198 MHz Ref Offset 8.24 dB Ref 20.00 dBm 3.649 dB 10 dB/div Log 10.0 Center Fred 0.00 2.441750000 GHz Santal adar throughour programmental entermonent behave a reference and a second programment of the second programment of -10.0 -20.0 Start Fred 30.0 2.400000000 GHz -40 N -50.0 Stop Fred 8DPSK/Hop 2.483500000 GHz 70.0 Stop 2.48350 GHz Start 2.40000 GHz CF Step 8.350000 MHz Man #Res BW 100 kHz **#VBW** 300 kHz Sweep 8.000 ms (8001 pts) <u>Auto</u> FUNCTION FUNCTION WIDTH 78.198 MHz (Δ) 2.401 952 GHz 3.649 dB -5.236 dBm Freq Offset 0 Hz STATUS MSG

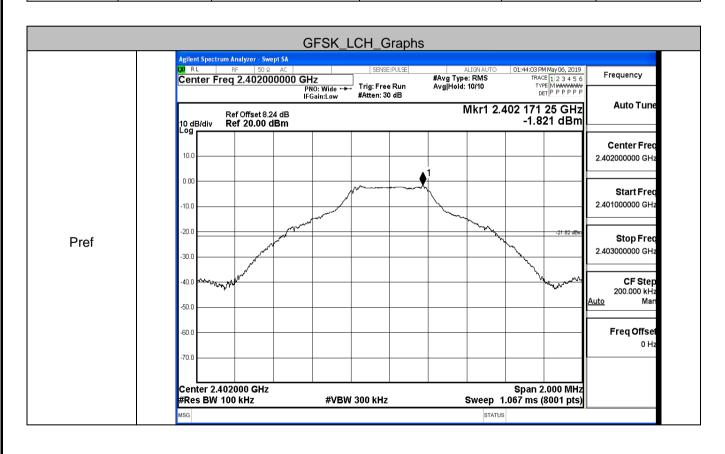
A.5 Dwell Time

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	HCH	2.88	106.7	0.307	0.4	PASS
	3DH5	LCH	2.88	106.7	0.308	0.4	PASS
8DPSK	3DH5	MCH	2.88	106.7	0.308	0.4	PASS
	3DH5	HCH	2.88	106.7	0.308	0.4	PASS

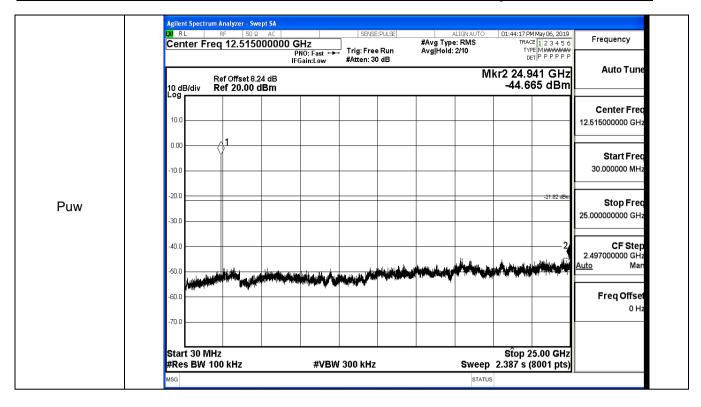


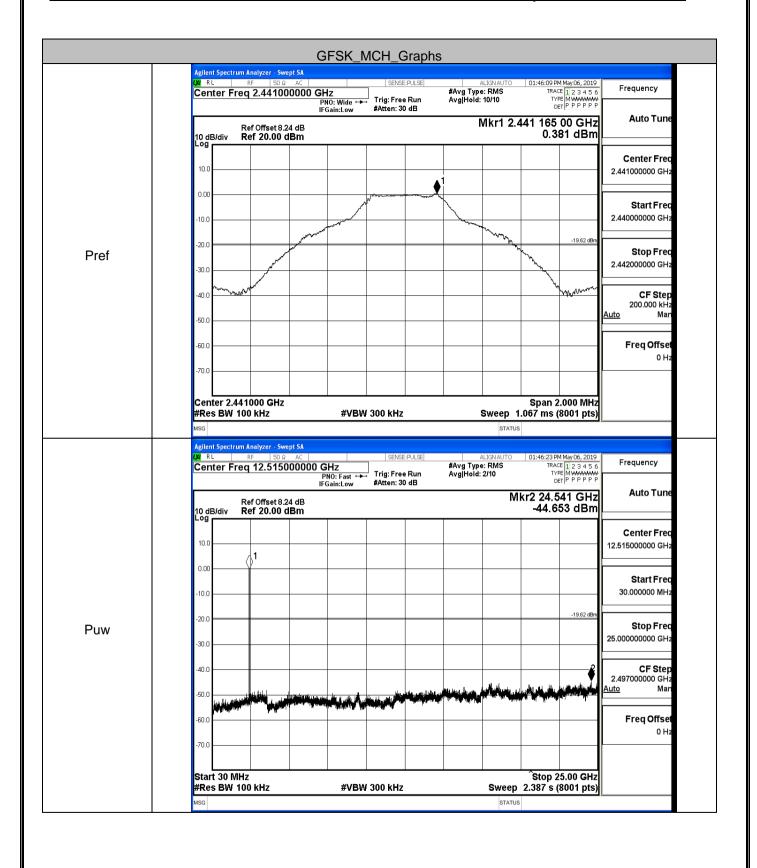
A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	-1.821	-44.665	-21.821	PASS
GFSK	MCH	0.381	-44.653	-19.619	PASS
	HCH	0.273	-44.558	-19.727	PASS
	LCH	-3.083	-44.560	-23.083	PASS
π/4DQPSK	MCH	-0.841	-44.496	-20.841	PASS
	HCH	-0.971	-43.029	-20.971	PASS
	LCH	-2.824	-44.624	-22.824	PASS
8DPSK	MCH	-0.909	-44.751	-20.909	PASS
	HCH	-1.184	-43.724	-21.184	PASS



SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AE4F-G6S Report No.: LCS190429021AEA





Stop 25.00 GHz

Sweep 2.387's (8001 pts)

STATUS

#VBW 300 kHz

-70.0

Start 30 MHz

#Res BW 100 kHz

Freq Offse

Stop 25.00 GHz

Sweep 2.387's (8001 pts)

STATUS

0 H

-50.0

-60.0

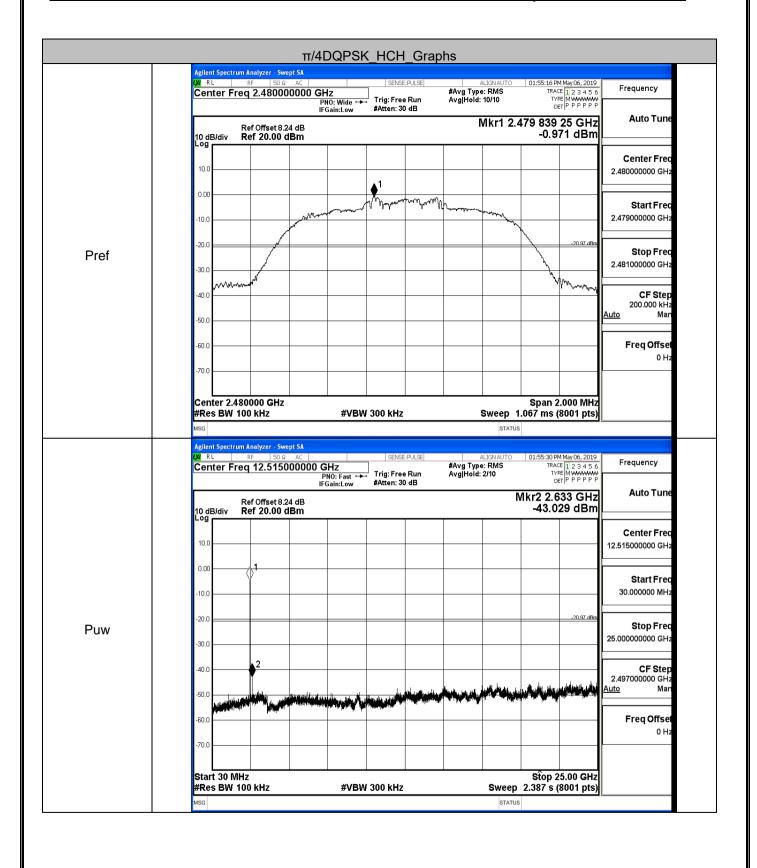
-70.0

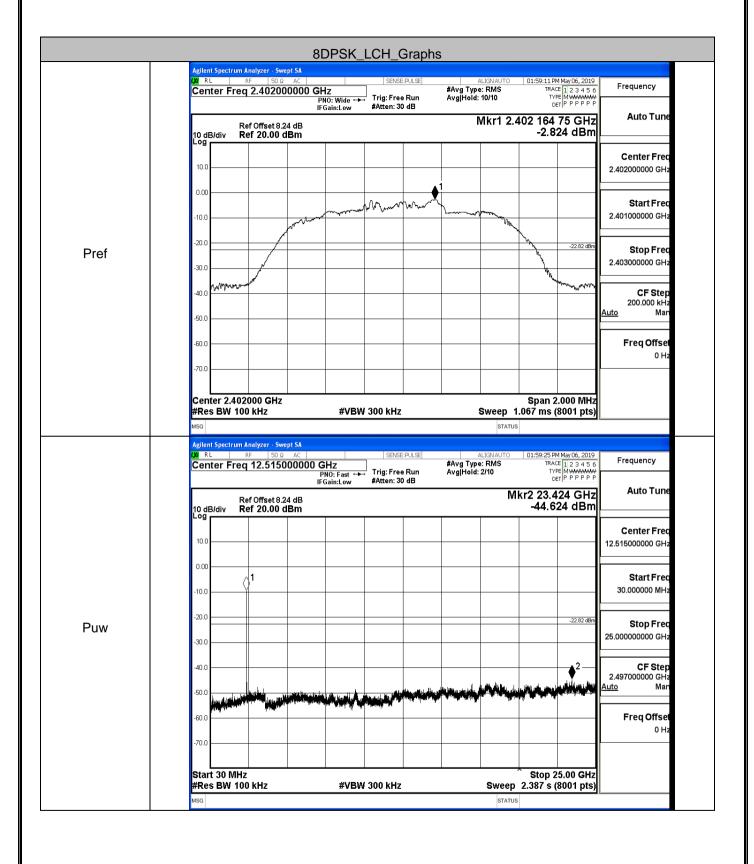
Start 30 MHz

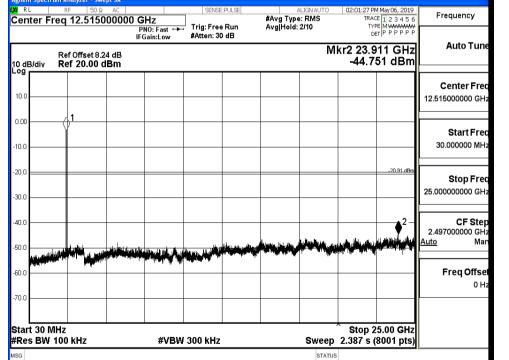
#Res BW 100 kHz

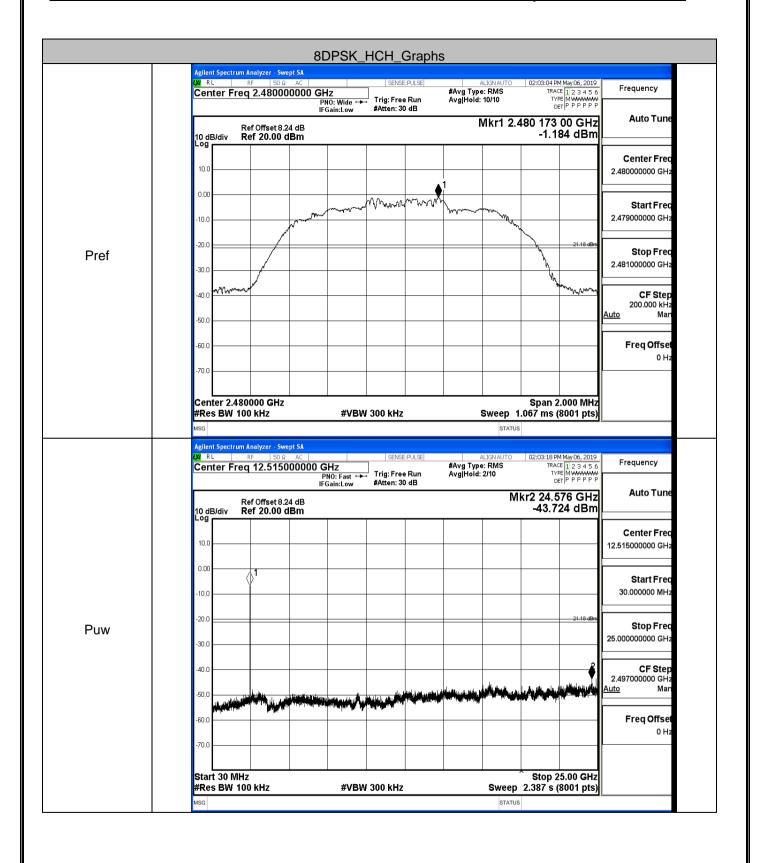
#VBW 300 kHz

STATUS



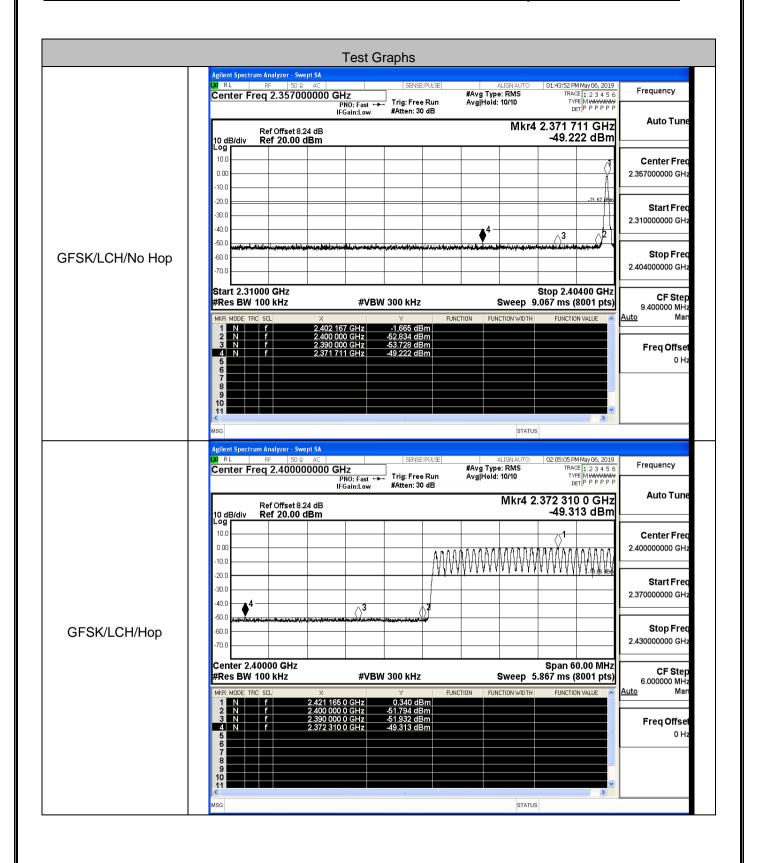






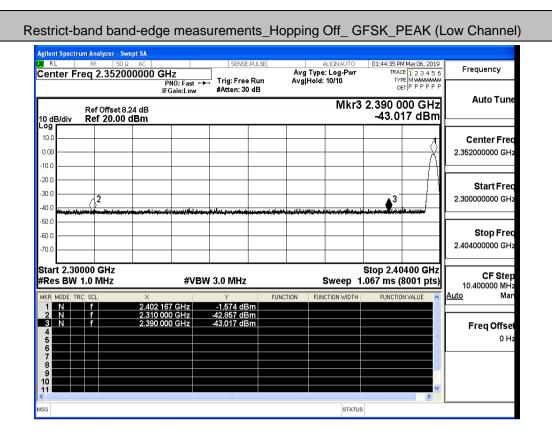
A.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict	
		0.400	-1.665	Off	-49.222	-21.67	PASS	
0501	LCH	2402	0.340	On	-49.313	-19.66	PASS	
GFSK	НСН			0.267	Off	-49.518	-19.73	PASS
		2480	1.925	On	-49.318	-18.08	PASS	
	LCH			-4.866	Off	-49.530	-24.87	PASS
		2402	-0.850	On	-48.833	-20.85	PASS	
π/4DQPSK	нсн		-0.885	Off	-49.110	-20.89	PASS	
		H 2480	0.468	On	-48.469	-19.53	PASS	
			-2.759	Off	-49.651	-22.76	PASS	
	LCH	2402	-1.030	On	-49.353	-21.03	PASS	
8DPSK			-1.314	Off	-49.686	-21.31	PASS	
	HCH	2480	0.080	On	-48.846	-19.92	PASS	

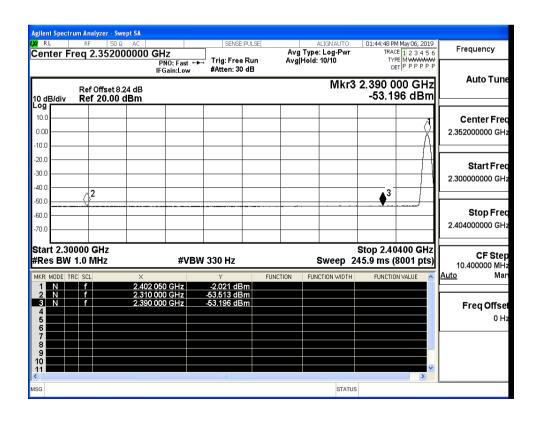


A.8 Restrict-band band-edge measurements

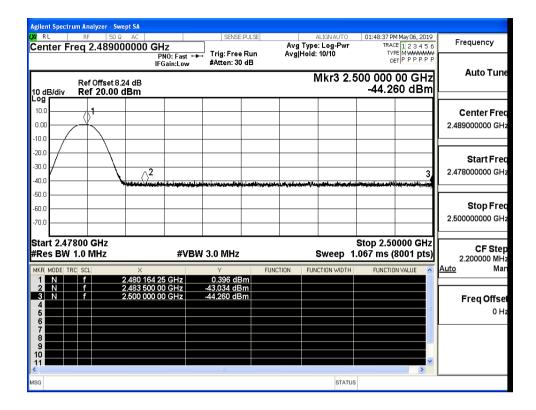
Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-42.86	2.0	0	52.40	PEAK	74	PASS
	Off	2310.0	-53.51	2.0	0	41.74	AV	54	PASS
	Off	2390.0	-43.02	2.0	0	52.24	PEAK	74	PASS
2-21/	Off	2390.0	-53.20	2.0	0	42.06	AV	54	PASS
GFSK	Off	2483.5	-43.03	2.0	0	52.22	PEAK	74	PASS
	Off	2483.5	-53.01	2.0	0	42.25	AV	54	PASS
	Off	2500.0	-44.26	2.0	0	51.00	PEAK	74	PASS
	Off	2500.0	-52.77	2.0	0	42.49	AV	54	PASS
	Off	2310.0	-43.40	2.0	0	51.85	PEAK	74	PASS
	Off	2310.0	-53.28	2.0	0	41.98	AV	54	PASS
	Off	2390.0	-43.79	2.0	0	51.46	PEAK	74	PASS
	Off	2390.0	-53.20	2.0	0	42.06	AV	54	PASS
π/4DQPSK	Off	2483.5	-41.99	2.0	0	53.27	PEAK	74	PASS
	Off	2483.5	-52.91	2.0	0	42.35	AV	54	PASS
	Off	2500.0	-43.19	2.0	0	52.07	PEAK	74	PASS
	Off	2500.0	-52.82	2.0	0	42.44	AV	54	PASS
	Off	2310.0	-43.96	2.0	0	51.30	PEAK	74	PASS
	Off	2310.0	-53.53	2.0	0	41.73	AV	54	PASS
	Off	2390.0	-40.95	2.0	0	54.31	PEAK	74	PASS
	Off	2390.0	-53.34	2.0	0	41.92	AV	54	PASS
8DPSK	Off	2483.5	-42.56	2.0	0	52.70	PEAK	74	PASS
	Off	2483.5	-52.94	2.0	0	42.32	AV	54	PASS
	Off	2500.0	-42.81	2.0	0	52.45	PEAK	74	PASS
	Off	2500.0	-52.89	2.0	0	42.37	AV	54	PASS



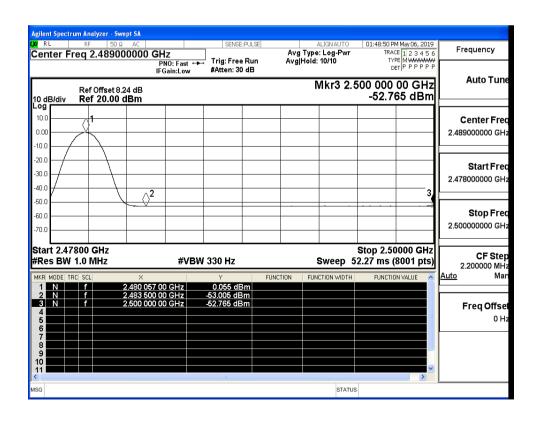
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



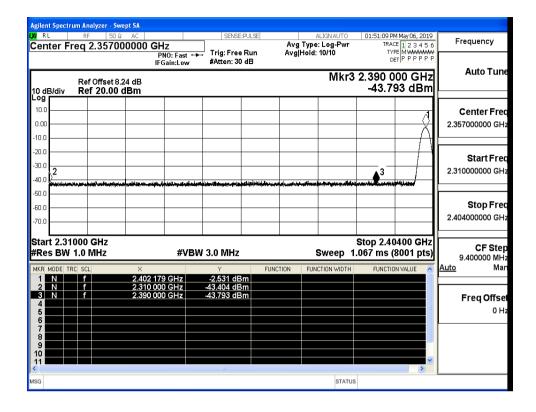
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



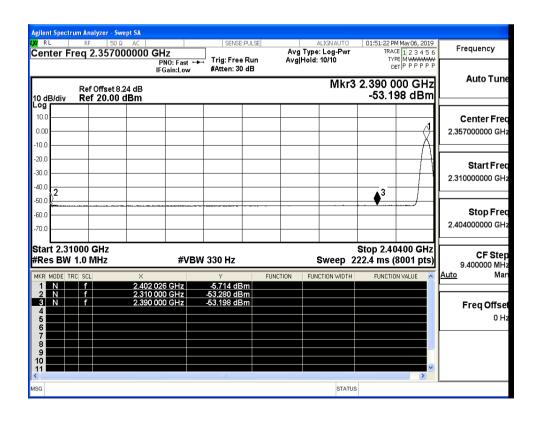
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



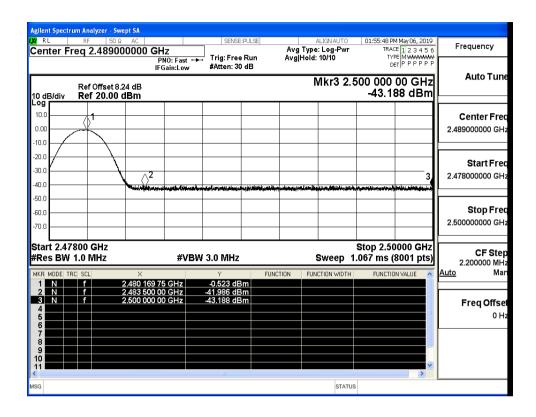
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



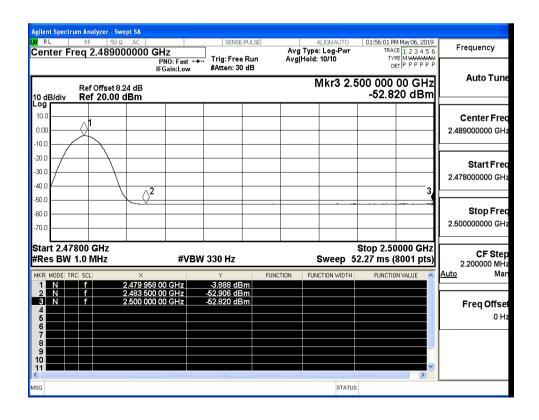
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



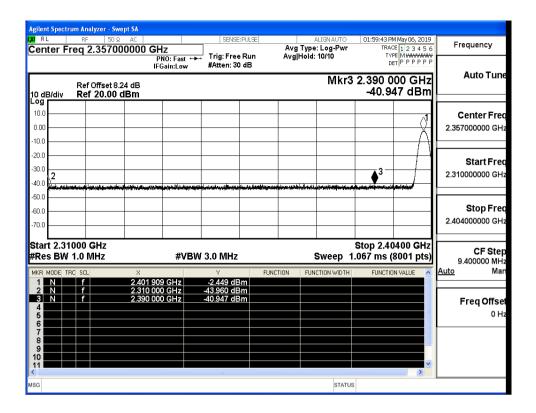
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



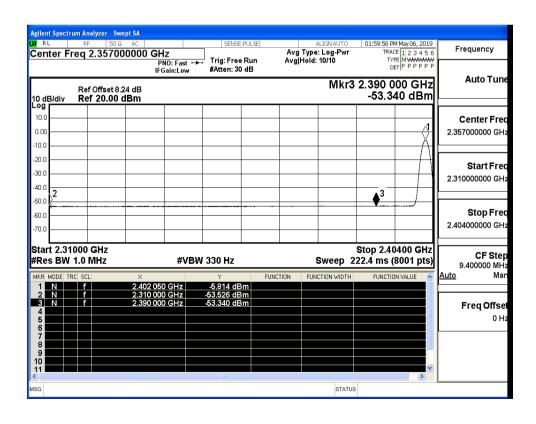
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



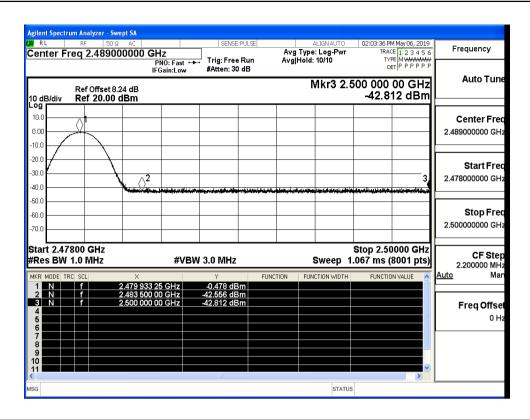
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



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)

