Appendix A

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

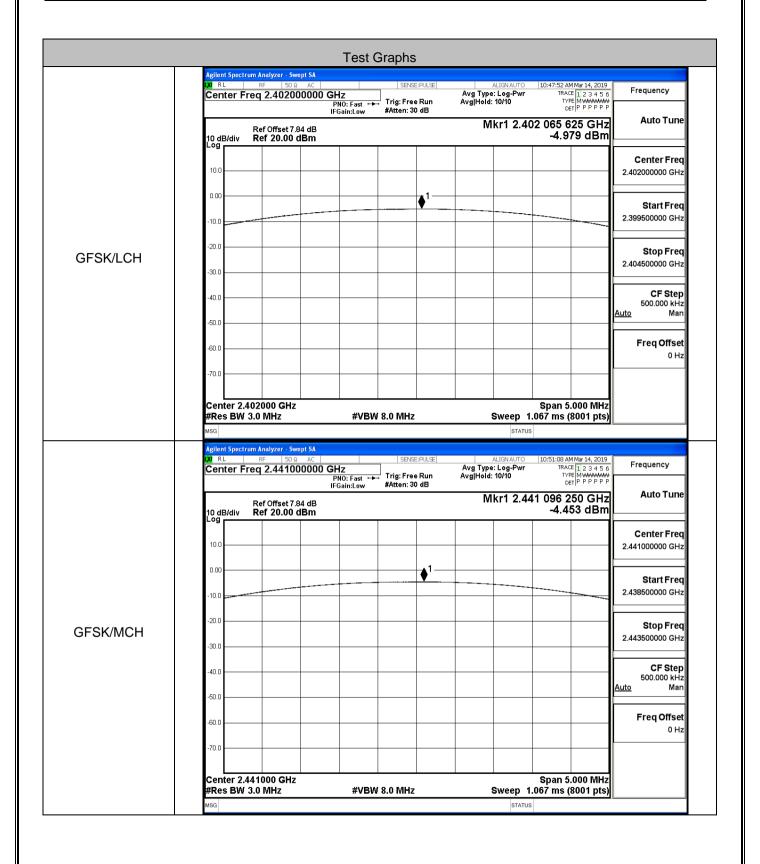
Product Name: BLUETOOTH SPEAKER
Trade Mark: N/A
Test Model: BS-672

Environmental Conditions

Temperature:	24.5 ° C
Relative Humidity:	53.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.Xu
Supervised by:	Tom Liu

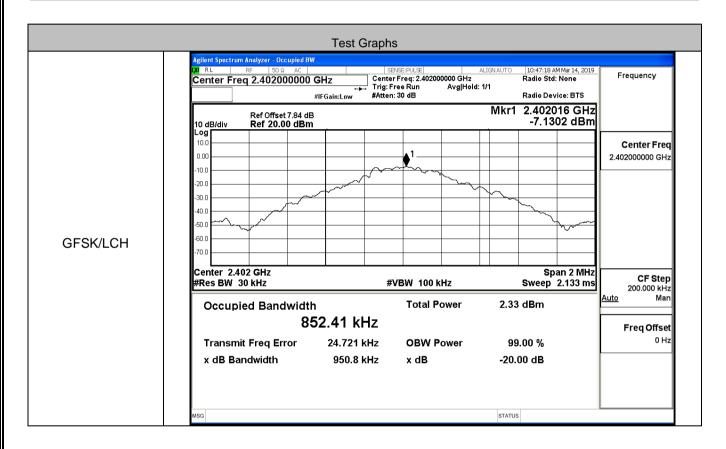
A.1 Maximum Conducted Peak Output Power

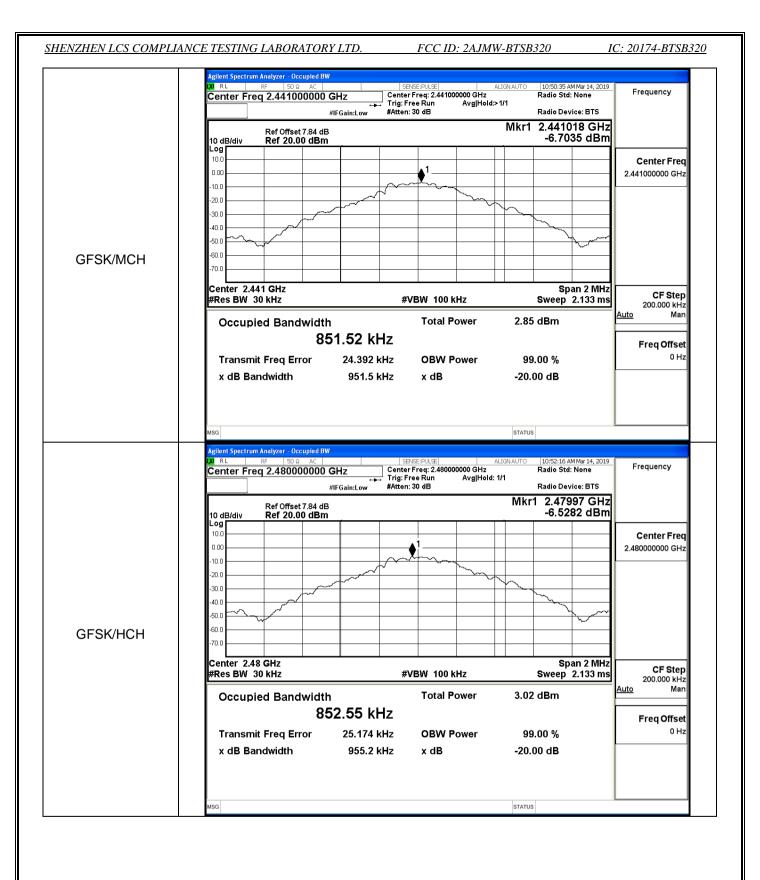
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	-4.979	21	PASS
GFSK	MCH	-4.453	21	PASS
	НСН	-4.294	21	PASS
	LCH	-3.814	21	PASS
π/4DQPSK	MCH	-3.338	21	PASS
	НСН	-3.147	21	PASS

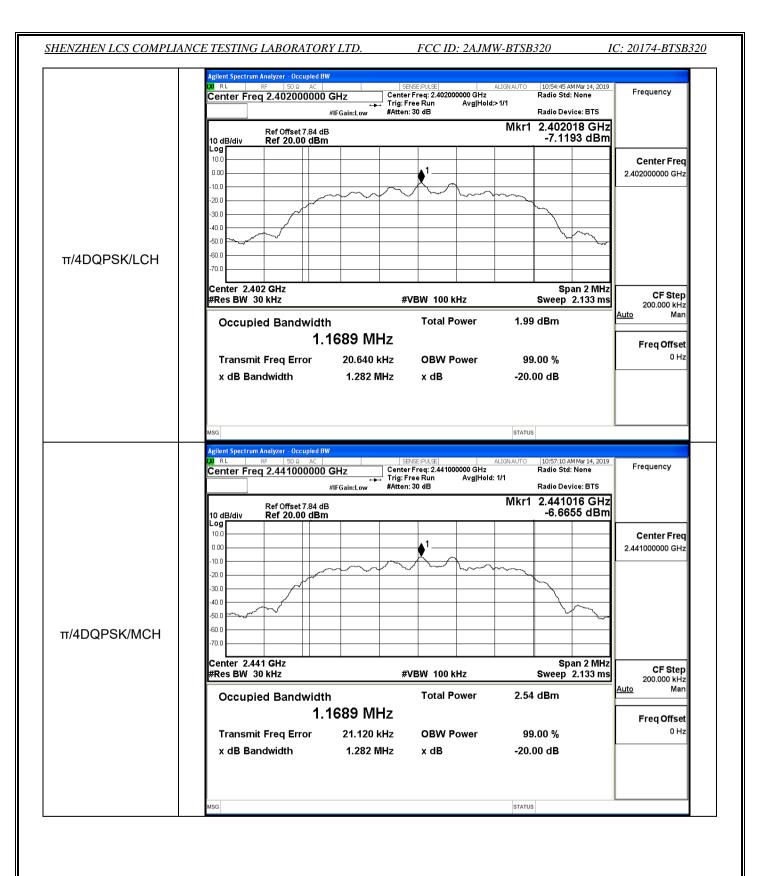


A.2 99% and 20dB Bandwidth

Mode	Channel.	99% Bandwidth [MHz]	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH 0.85241 0.9508		0.9508	Not Specified	PASS
GFSK	MCH	0.85152	0.9515	Not Specified	PASS
	НСН	0.85255	0.9552	Not Specified	PASS
	LCH	1.1689	1.282	Not Specified	PASS
π/4DQPSK	MCH	1.1689	1.282	Not Specified	PASS
	НСН	1.1680	1.281	Not Specified	PASS

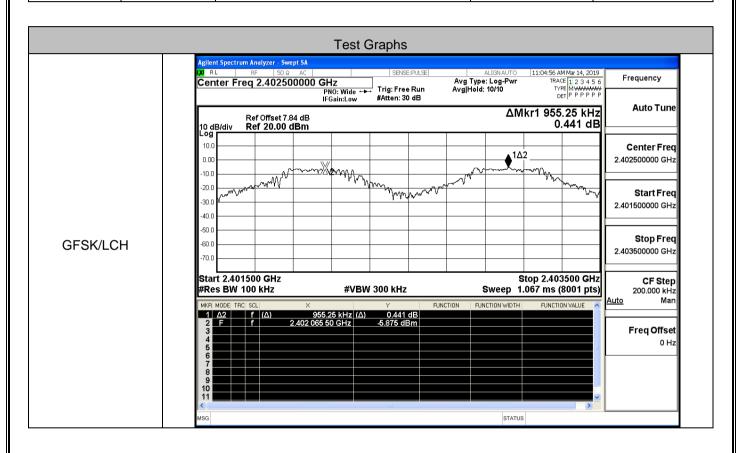


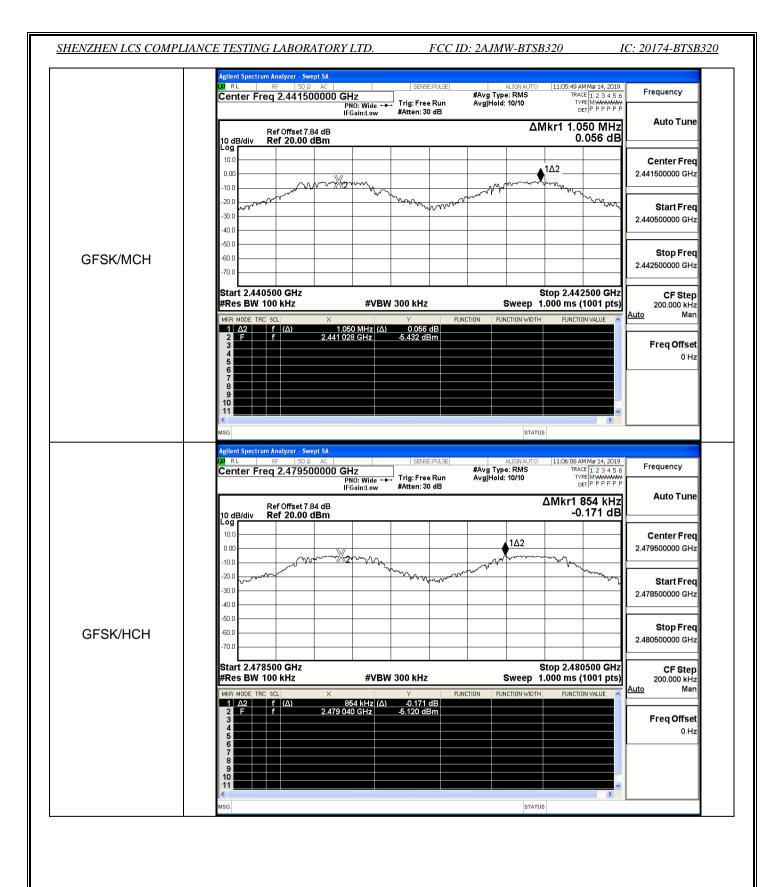


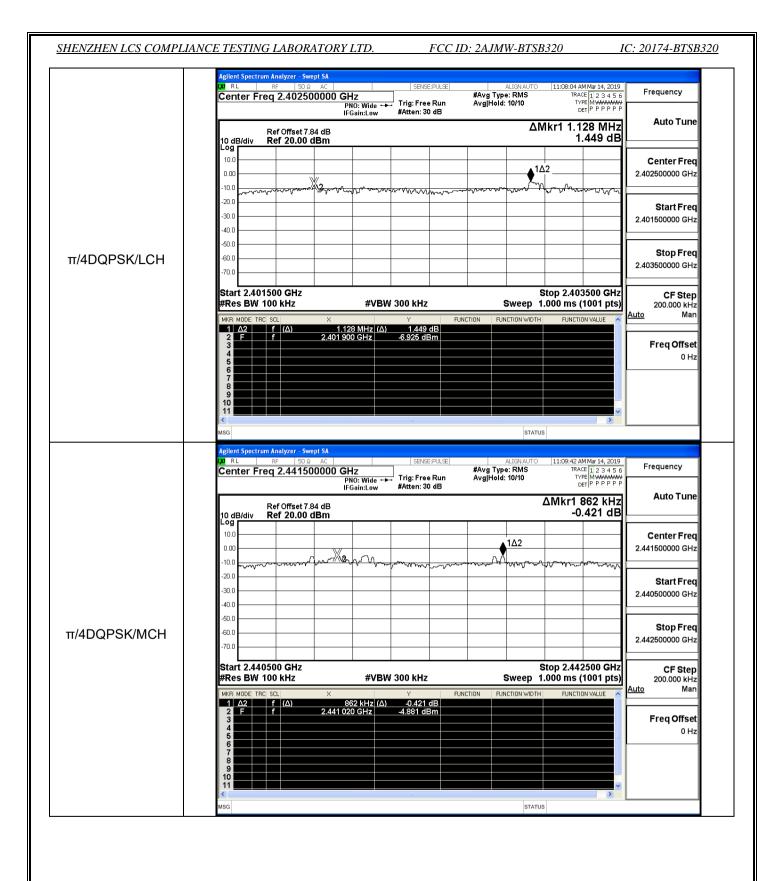


A.3 Carrier Frequency Separation

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	0.955	0.637	PASS
GFSK	MCH	1.050	0.637	PASS
	HCH	0.854	0.637	PASS
	LCH	1.128	0.855	PASS
π/4DQPSK	MCH	0.862	0.855	PASS
	HCH	0.934	0.855	PASS

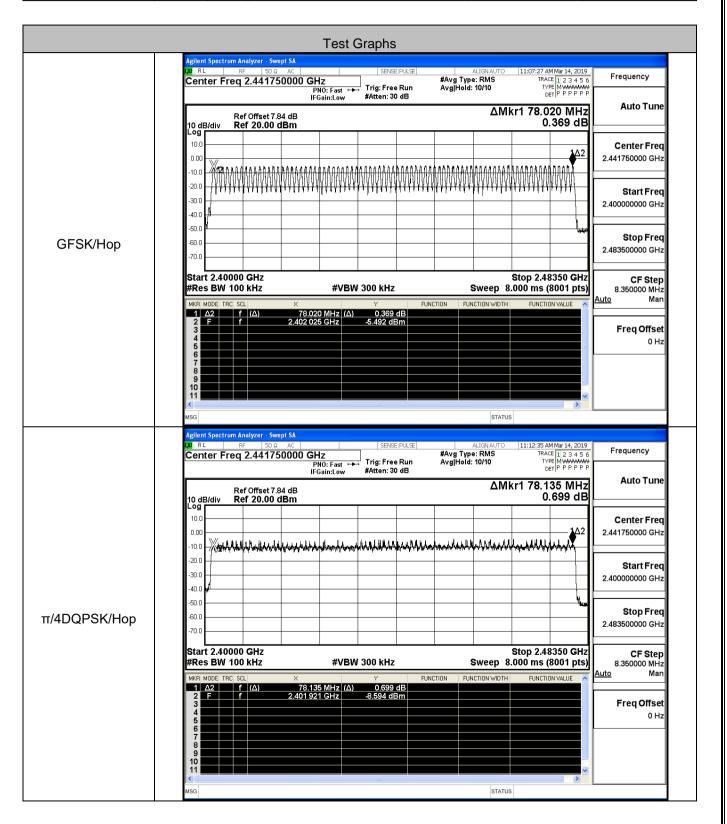






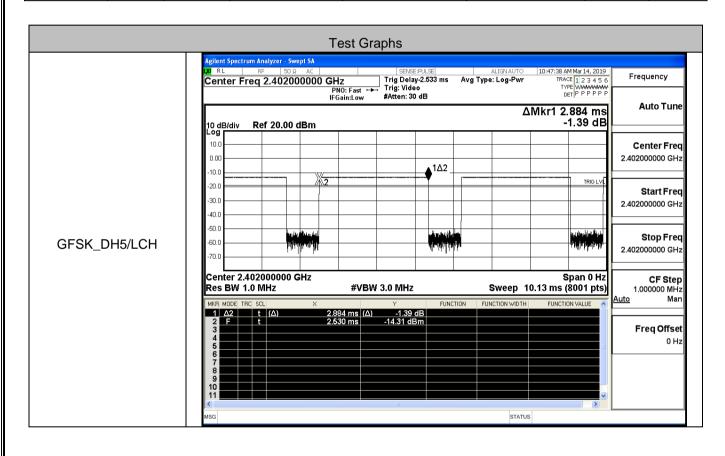
A.4 Hopping Channel Number

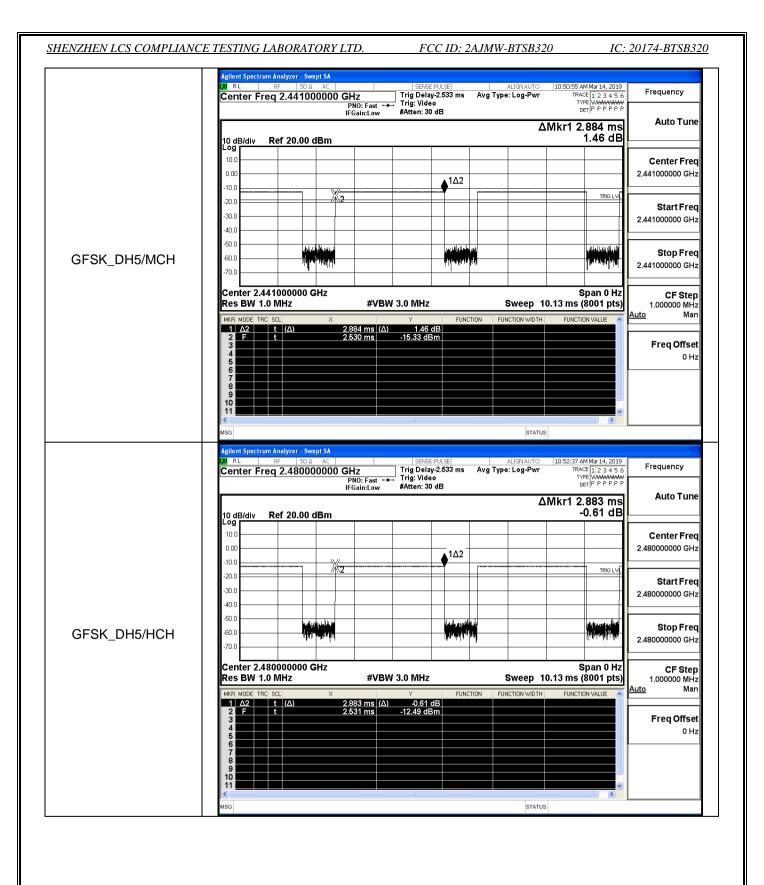
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS

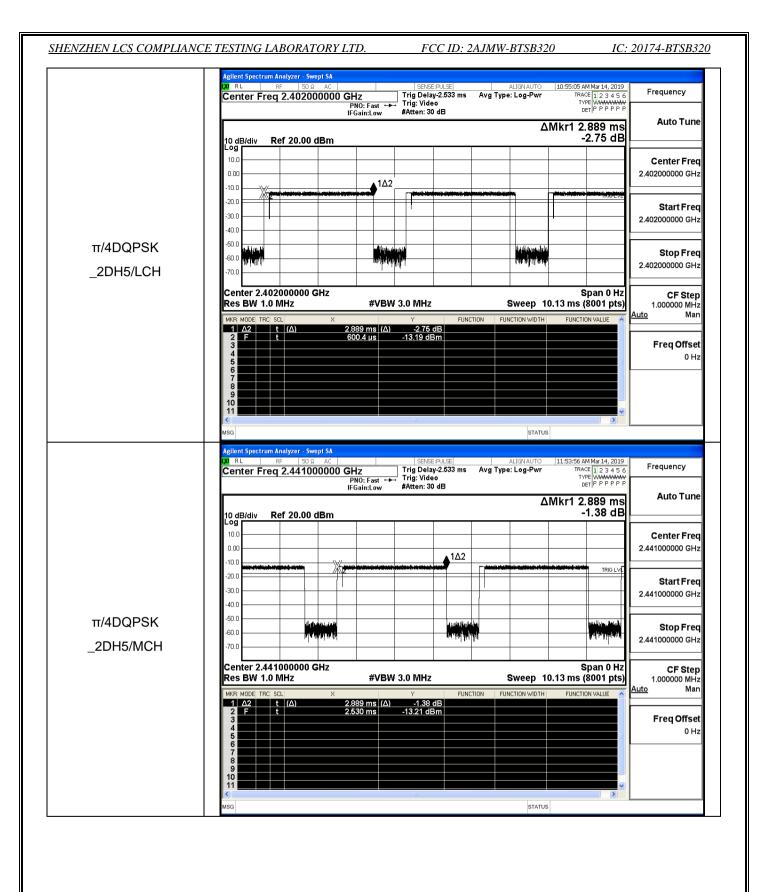


A.5 Dwell Time

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	2.89	106.7	0.308	0.4	PASS
π/4DQPSK	2DH5	MCH	2.89	106.7	0.308	0.4	PASS
	2DH5	НСН	2.89	106.7	0.308	0.4	PASS



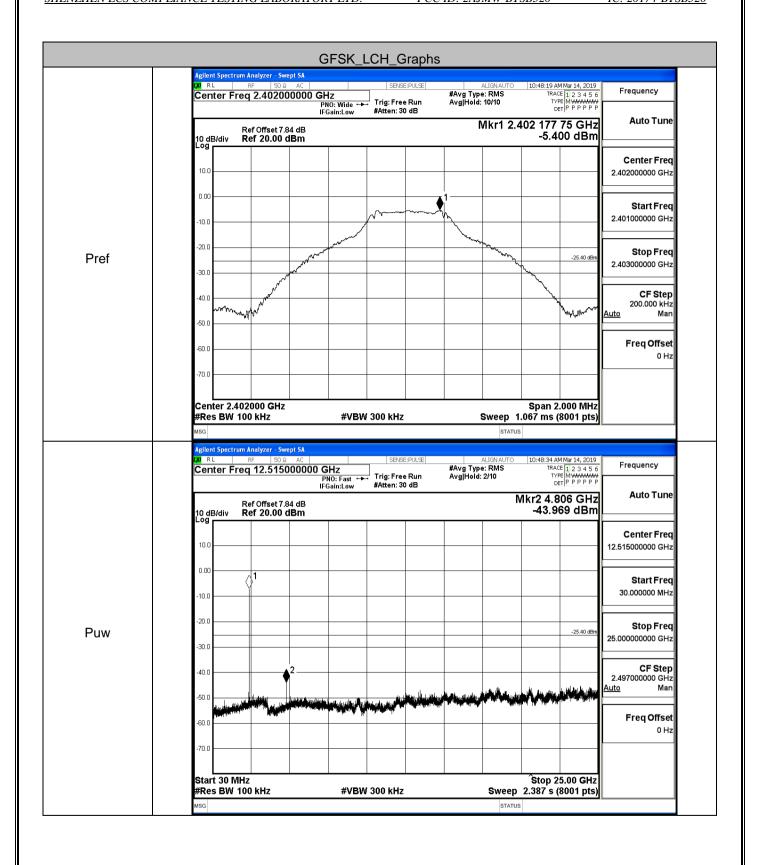


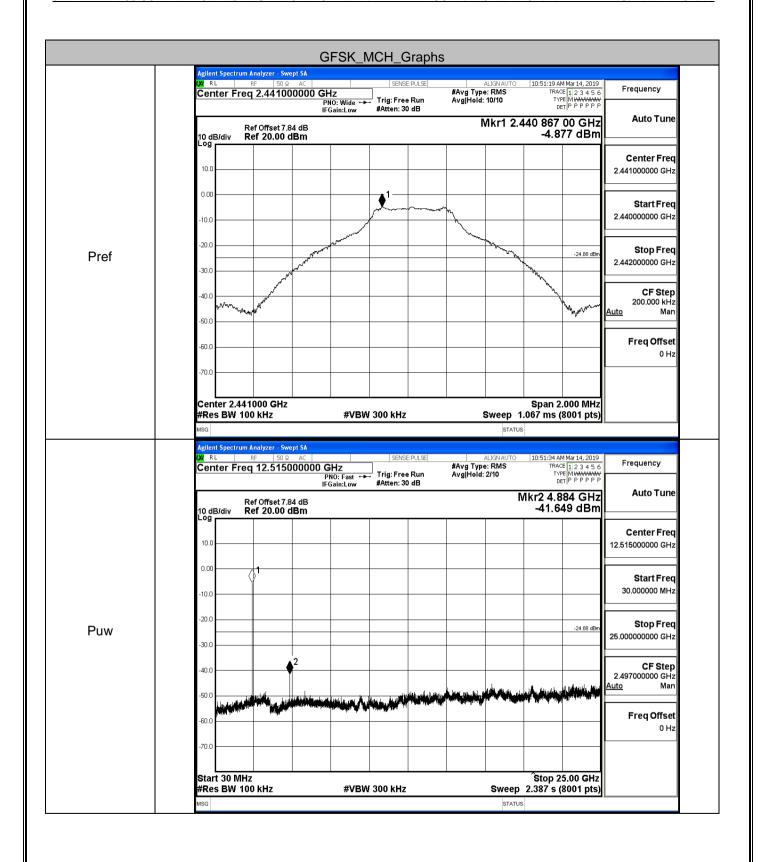


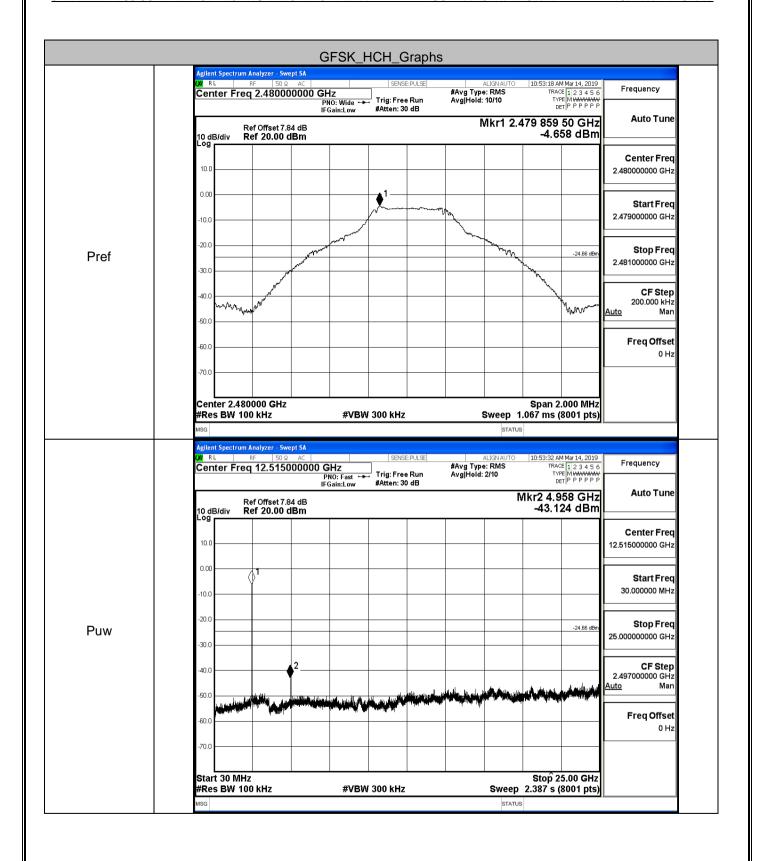
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AJMW-BTSB320 IC: 20174-BTSB320 Frequency Auto Tune ΔMkr1 2.889 ms -1.17 dB 10 dB/div Ref 20.00 dBm 10.0 Center Freq 0.00 2.480000000 GHz _1Δ2 -10.0 -20.0 Start Freq -30.0 2.480000000 GHz -40.0 -50.0 π/4DQPSK -50.0 -60.0 Stop Freq 2.480000000 GHz _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 2.889 ms (Δ) -1.17 dB 881.6 μs -13.17 dBm Freq Offset 0 Hz STATUS

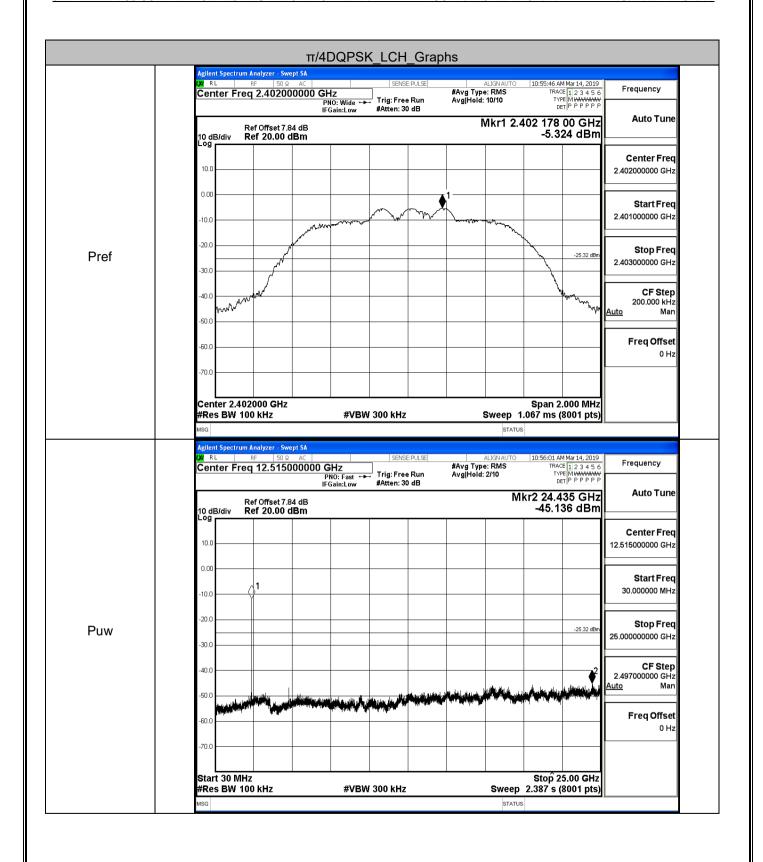
A.6 RF Conducted Spurious Emissions

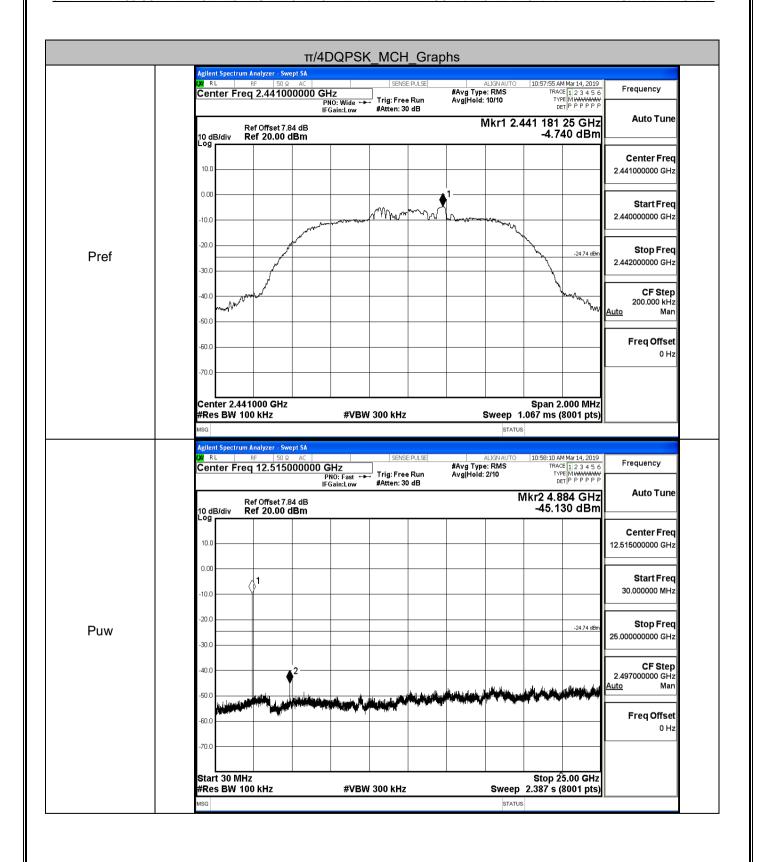
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH -5.400		-43.969	-25.400	PASS
GFSK	MCH	-4.877	-41.649	-24.877	PASS
	НСН	-4.658	-43.124	-24.658	PASS
	LCH	-5.324	-45.136	-25.324	PASS
π/4DQPSK	MCH	-4.740	-45.130	-24.740	PASS
	НСН	-4.565	-45.255	-24.565	PASS

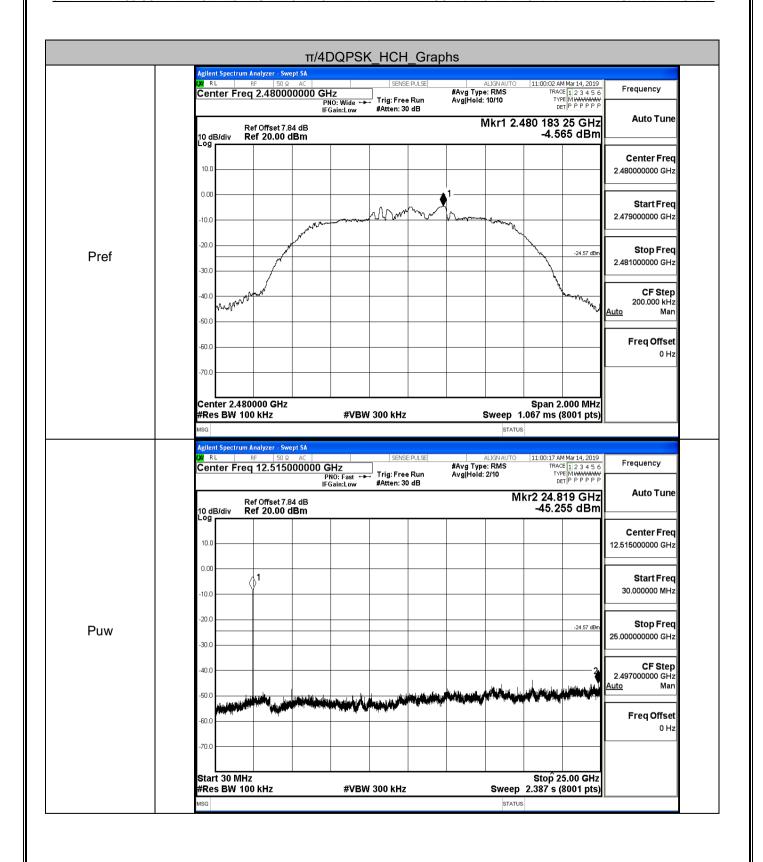






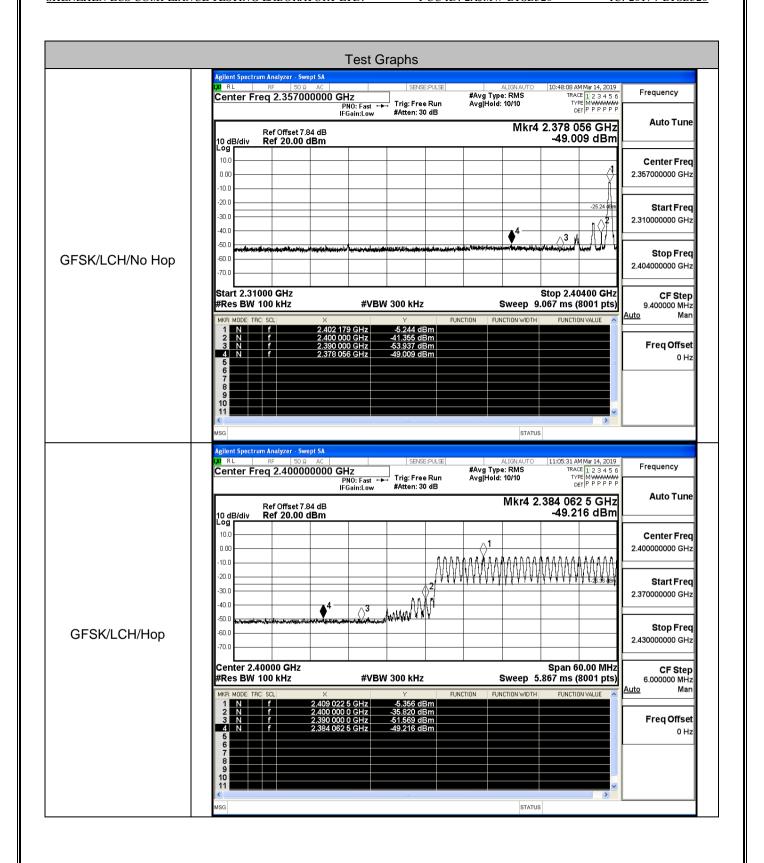


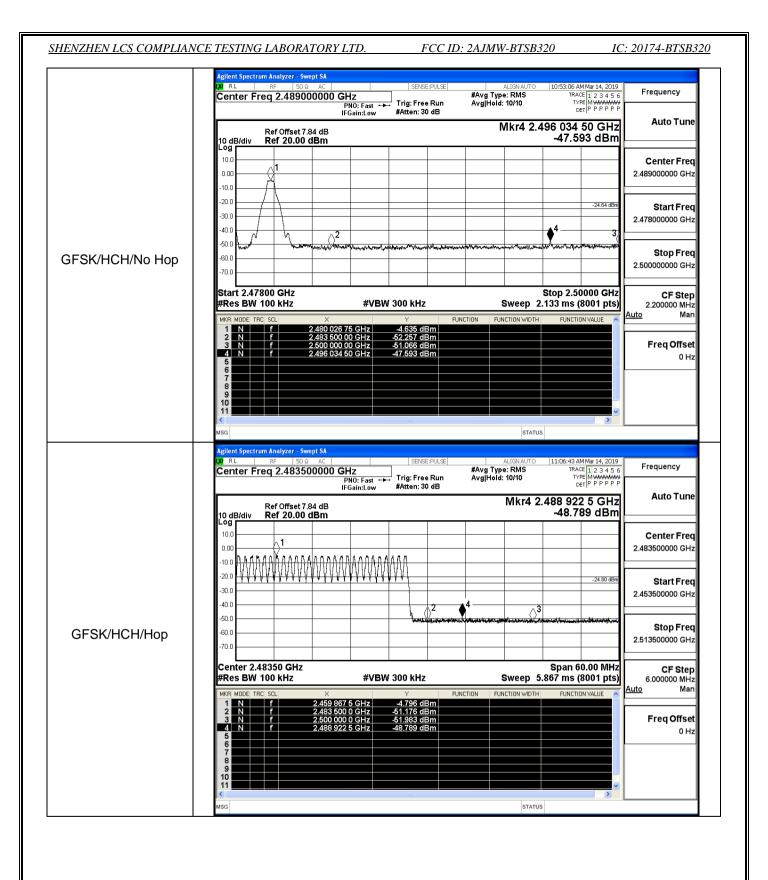


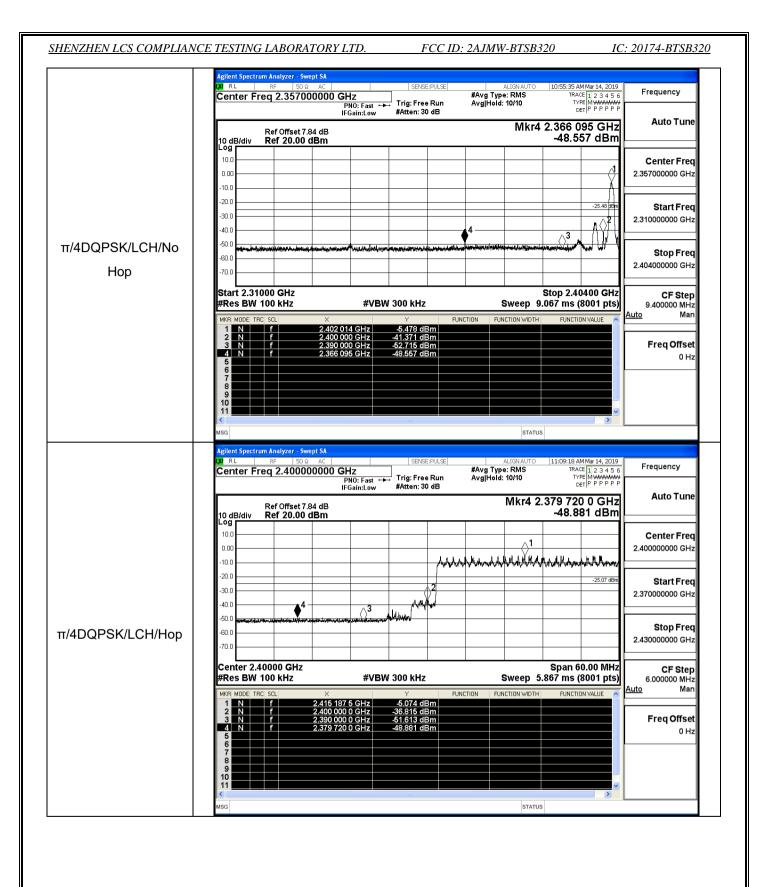


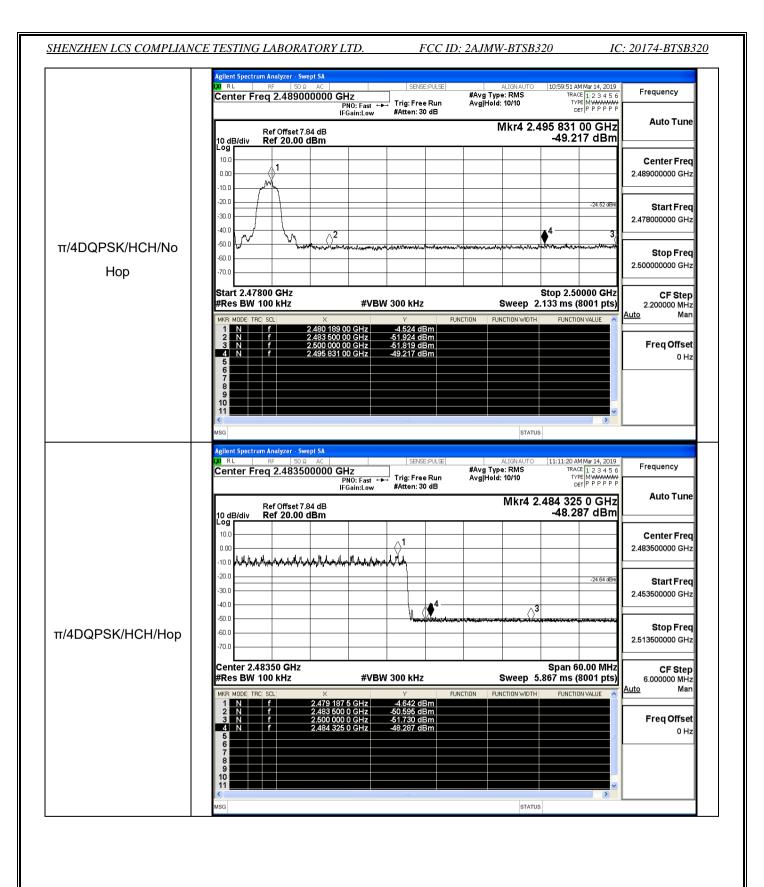
A.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
		0.400	-5.244	Off	-49.009	-25.24	PASS
	LCH	2402	-5.356	On	-49.216	-25.36	PASS
GFSK			-4.635	Off	-47.593	-24.64	PASS
	HCH	2480	-4.796	On	-48.789	-24.80	PASS
		LCH 2402	-5.478	Off	-48.557	-25.48	PASS
π/4DQPSK	LCH		-5.074	On	-48.881	-25.07	PASS
			-4.524	Off	-49.217	-24.52	PASS
	HCH	2480	-4.642	On	-48.287	-24.64	PASS





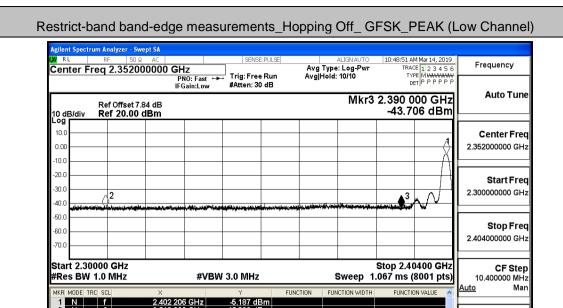




A.8 Restrict-band band-edge measurements

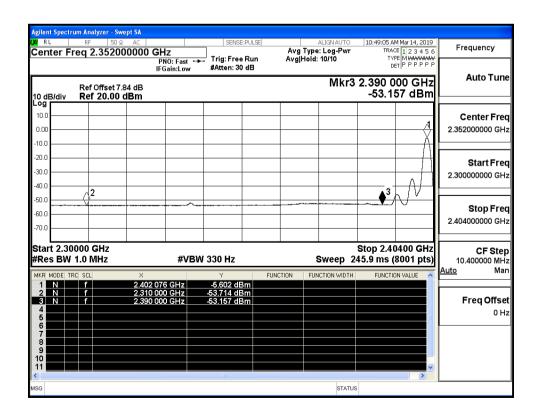
Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-43.51	2.0	0	53.75	PEAK	74	PASS
	Off	2310.0	-53.71	2.0	0	43.54	AV	54	PASS
	Off	2390.0	-43.71	2.0	0	53.55	PEAK	74	PASS
	Off	2390.0	-53.16	2.0	0	44.10	AV	54	PASS
GFSK	Off	2483.5	-41.43	2.0	0	55.83	PEAK	74	PASS
	Off	2483.5	-52.44	2.0	0	44.82	AV	54	PASS
	Off	2500.0	-41.98	2.0	0	55.28	PEAK	74	PASS
	Off	2500.0	-51.95	2.0	0	45.31	AV	54	PASS
	Off	2310.0	-43.93	2.0	0	53.32	PEAK	74	PASS
	Off	2310.0	-53.80	2.0	0	43.45	AV	54	PASS
	Off	2390.0	-43.22	2.0	0	54.04	PEAK	74	PASS
	Off	2390.0	-53.40	2.0	0	43.86	AV	54	PASS
π/4DQPSK	Off	2483.5	-42.70	2.0	0	54.56	PEAK	74	PASS
	Off	2483.5	-52.74	2.0	0	44.52	AV	54	PASS
	Off	2500.0	-42.59	2.0	0	54.67	PEAK	74	PASS
	Off	2500.0	-52.02	2.0	0	45.23	AV	54	PASS

Freq Offset 0 Hz

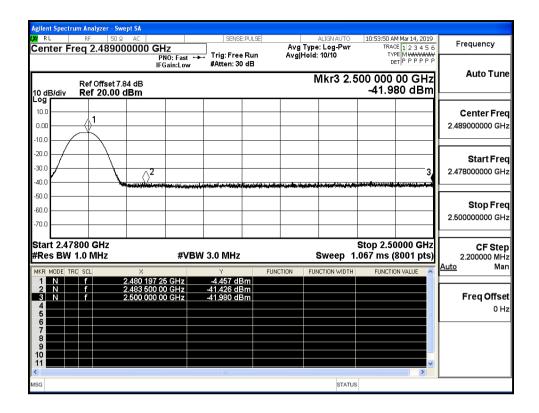


Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)

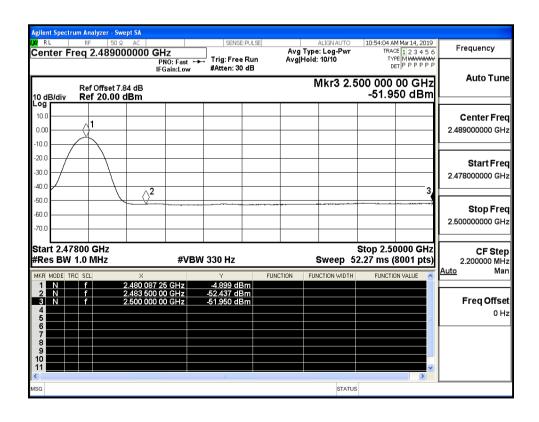
STATUS



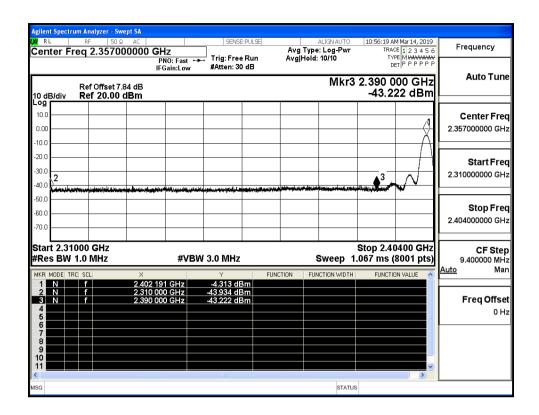
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



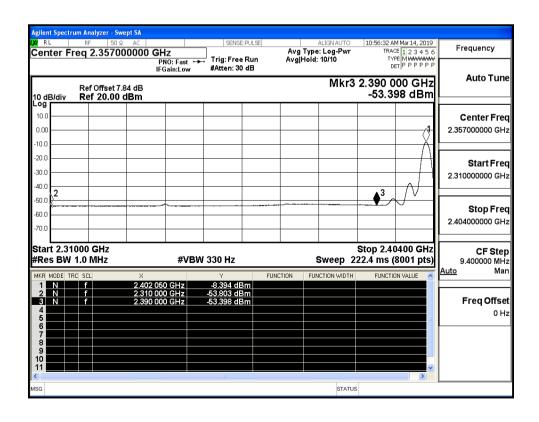
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



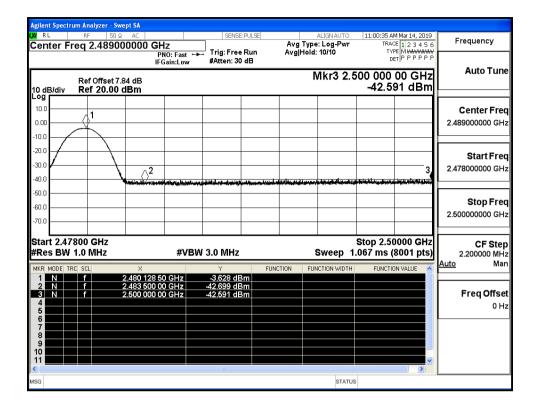
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



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)

