Appendix A

RF Test Data for BT V3.0(BDR/EDR) (Conducted Measurement)

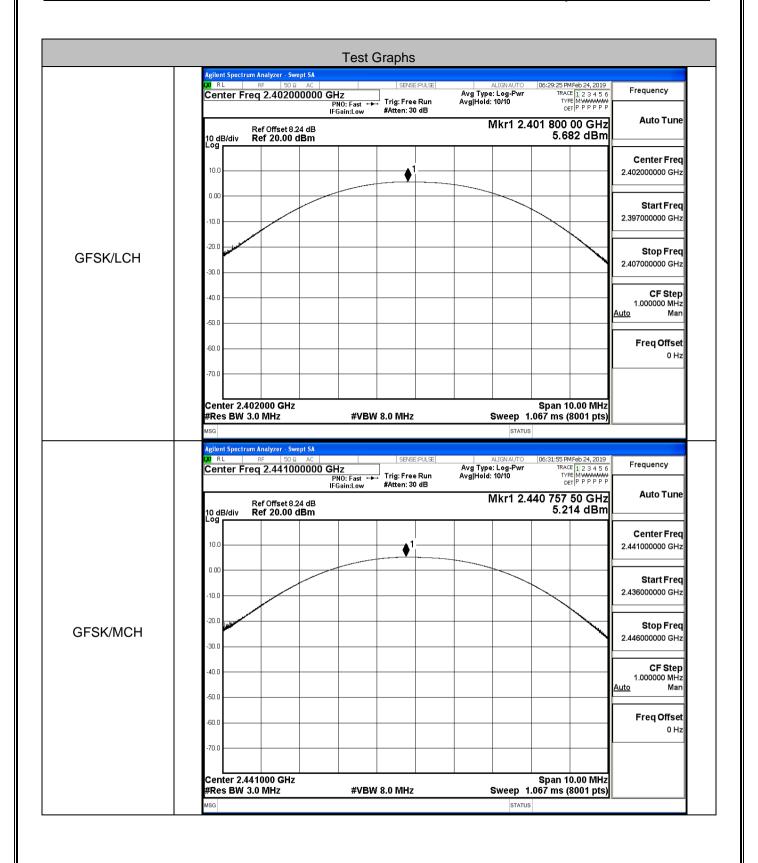
Product Name: Bluetooth receiver and car charger Trade Mark: Monoprice, IIIP Test Model: 38038

Environmental Conditions

·	
Temperature:	23.1 ° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	David.Luo
Supervised by:	Jayden.Zhuo

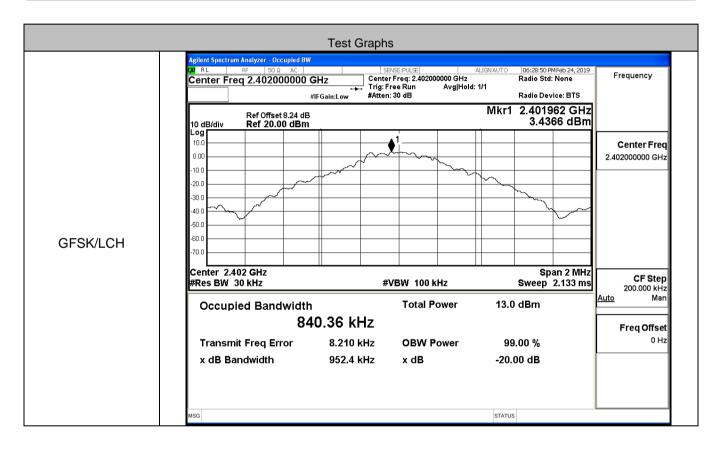
A.1 Maxmum Conducted Peak Output Power

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	5.682	21	PASS
GFSK	MCH	5.214	21	PASS
	НСН	4.815	21	PASS
	LCH	6.341	21	PASS
π/4DQPSK	MCH	5.875	21	PASS
	НСН	5.493	21	PASS



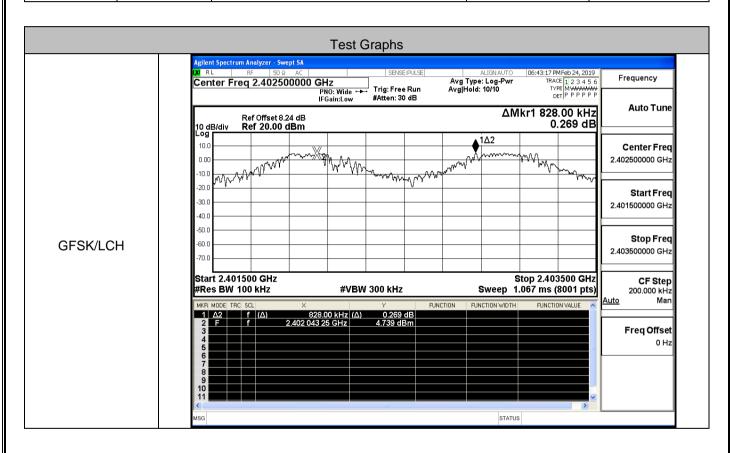
A.2 20dB Bandwidth

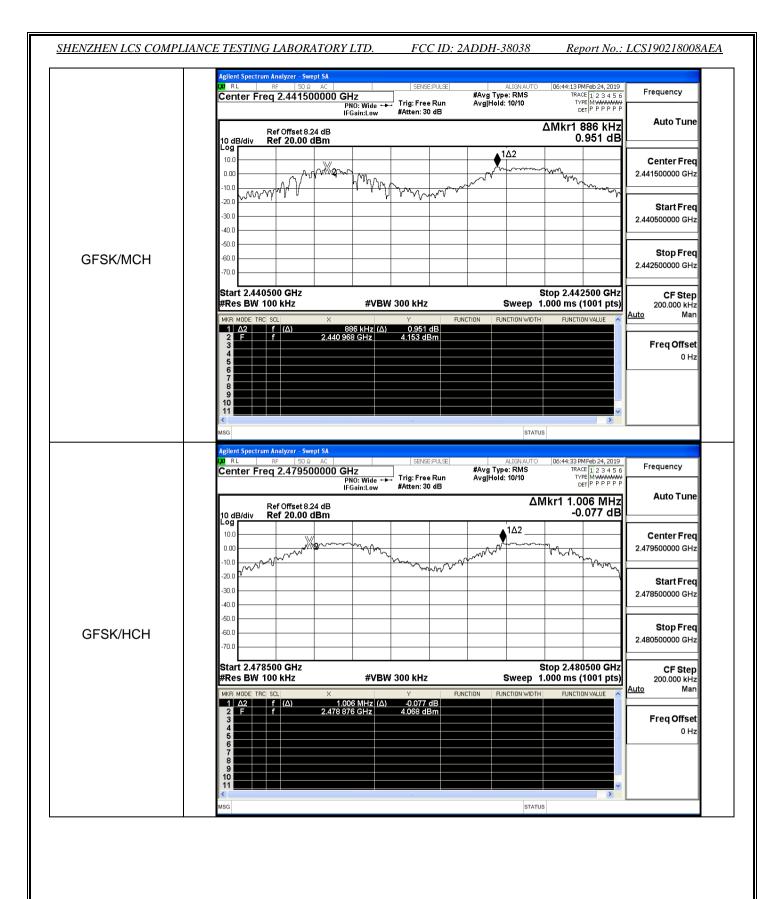
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	0.9524	Not Specified	PASS
GFSK	MCH	0.9516	Not Specified	PASS
	HCH	0.9513	Not Specified	PASS
	LCH	1.313	Not Specified	PASS
π/4DQPSK	MCH	1.316	Not Specified	PASS
	HCH	1.311	Not Specified	PASS

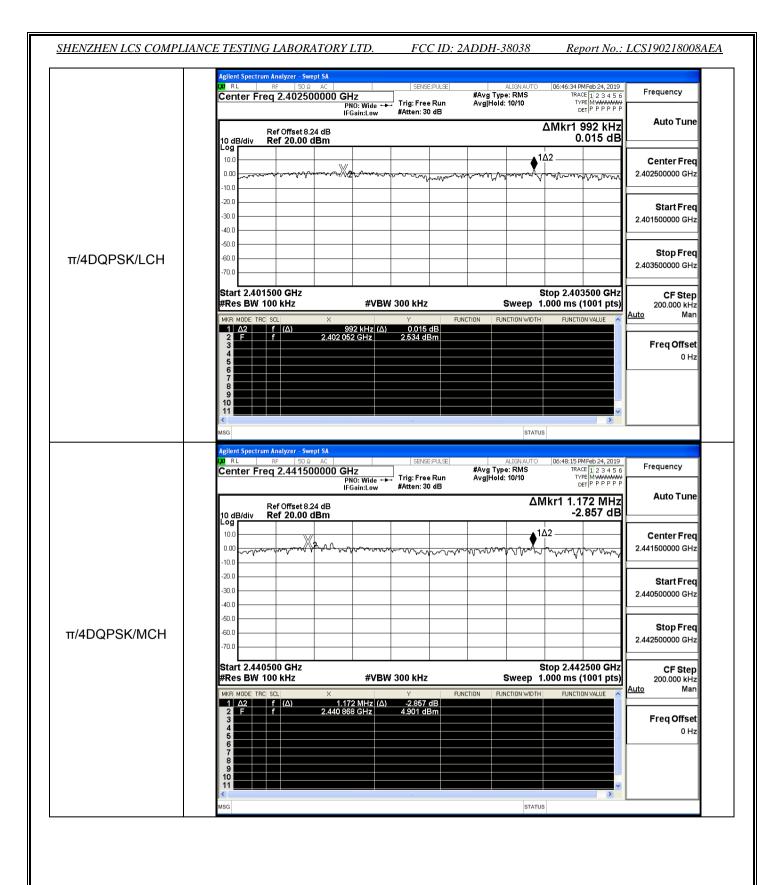


A.3 Carrier Frequency Separation

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	0.828	0.635	PASS
GFSK	MCH	0.886	0.635	PASS
	HCH	1.006	0.635	PASS
	LCH	0.992	0.877	PASS
π/4DQPSK	MCH	1.172	0.877	PASS
	НСН	0.904	0.877	PASS

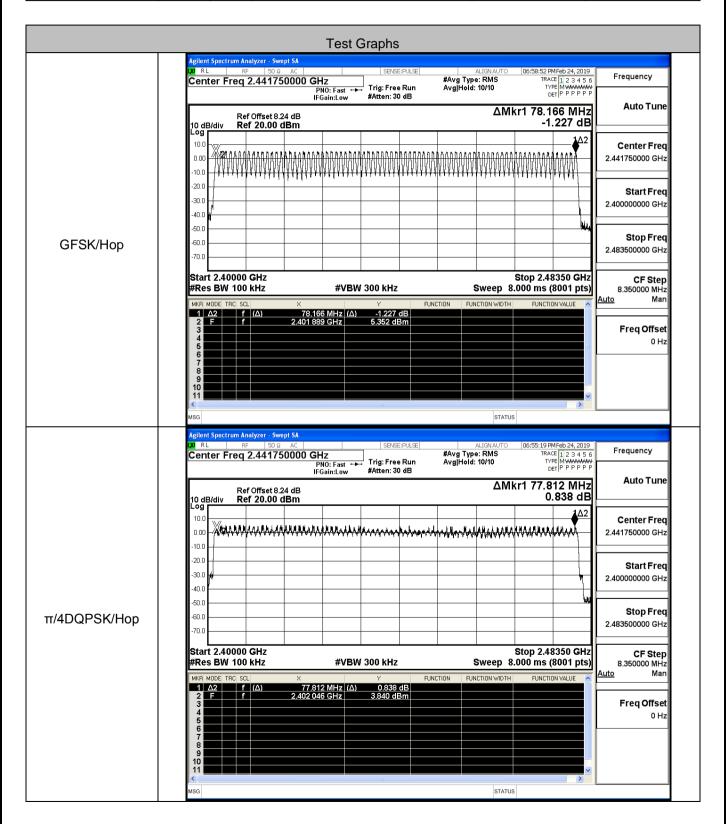






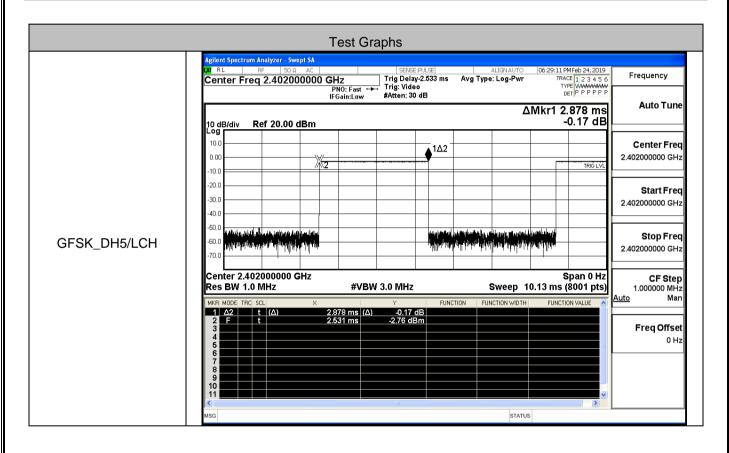
A.4 Hopping Channel Number

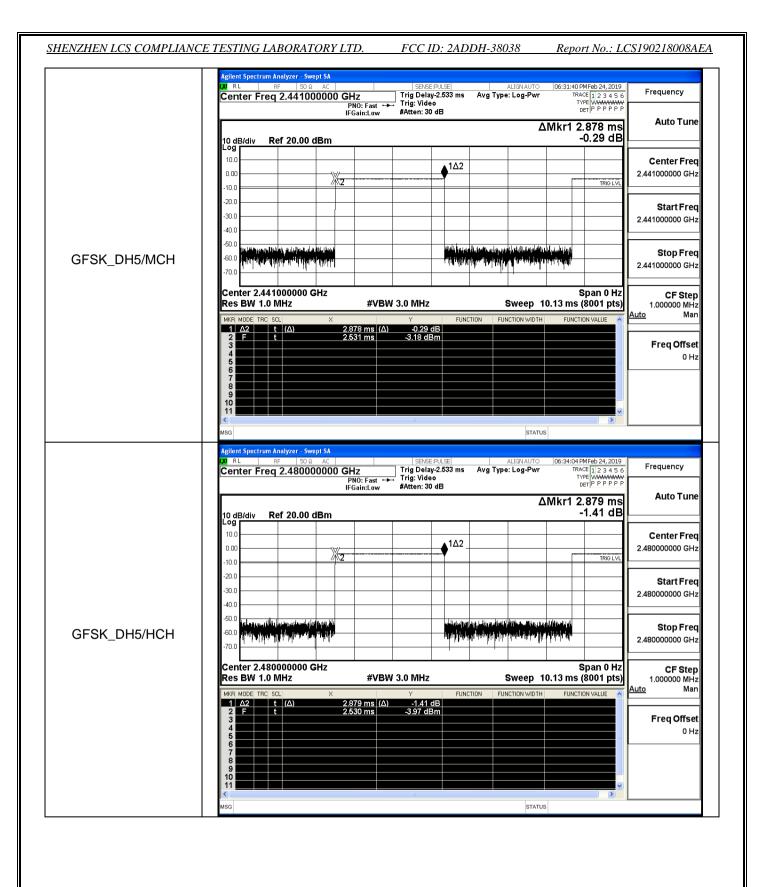
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS

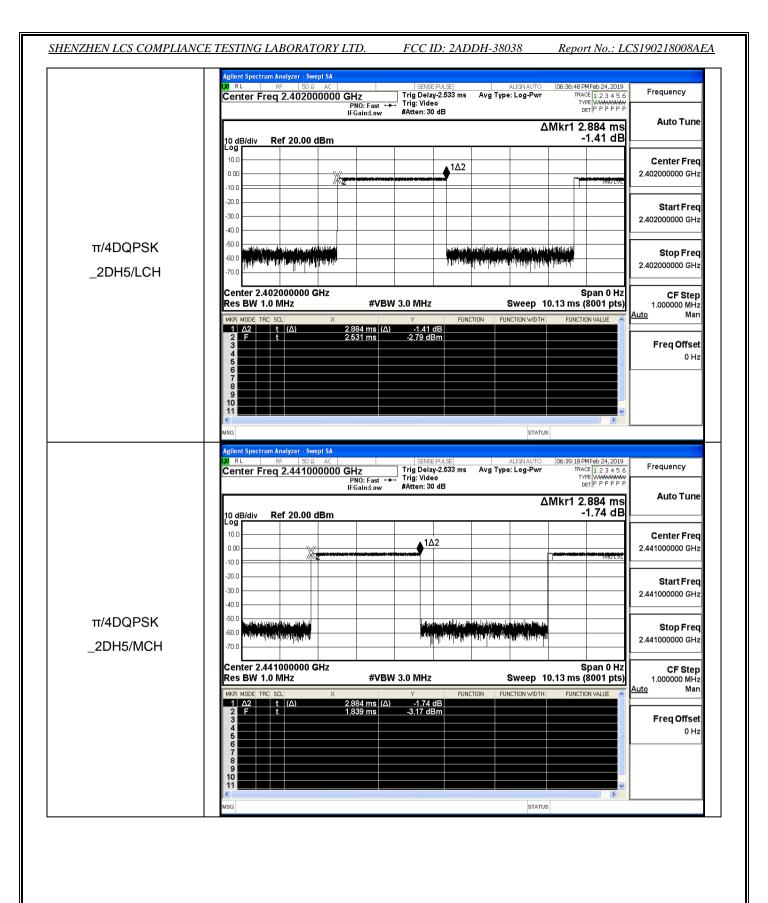


A.5 Dwell Time

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	МСН	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



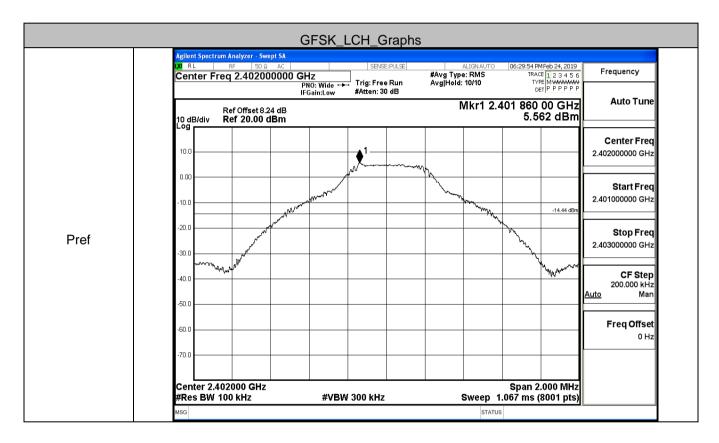




SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADDH-38038 Report No.: LCS190218008AEA Frequency **Auto Tune** ΔMkr1 2.884 ms 10 dB/div Ref 20.00 dBm -1.58 dB 10.0 Center Freq 1Δ2 0.00 2.480000000 GHz -10.0 -20.0 Start Freq -30.0 2.480000000 GHz -40.0 -50.0 π/4DQPSK -60.0 Triplich - and Charle and the many 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 Sweep 10.13 ms (8001 pts) **#VBW 3.0 MHz** <u>Auto</u> FUNCTION FUNCTION WIDTH FUNCTION VALUE 2.884 ms (Δ) 2.531 ms -1.58 dB -3.63 dBm Freq Offset 0 Hz STATUS

A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	5.562	-42.815	-14.438	PASS
GFSK	MCH	5.104	-44.909	-14.896	PASS
	HCH	4.419	-43.444	-15.581	PASS
	LCH	4.797	-44.734	-15.203	PASS
π/4DQPSK	MCH	4.77	-40.538	-15.230	PASS
	HCH	1.709	-44.563	-18.291	PASS

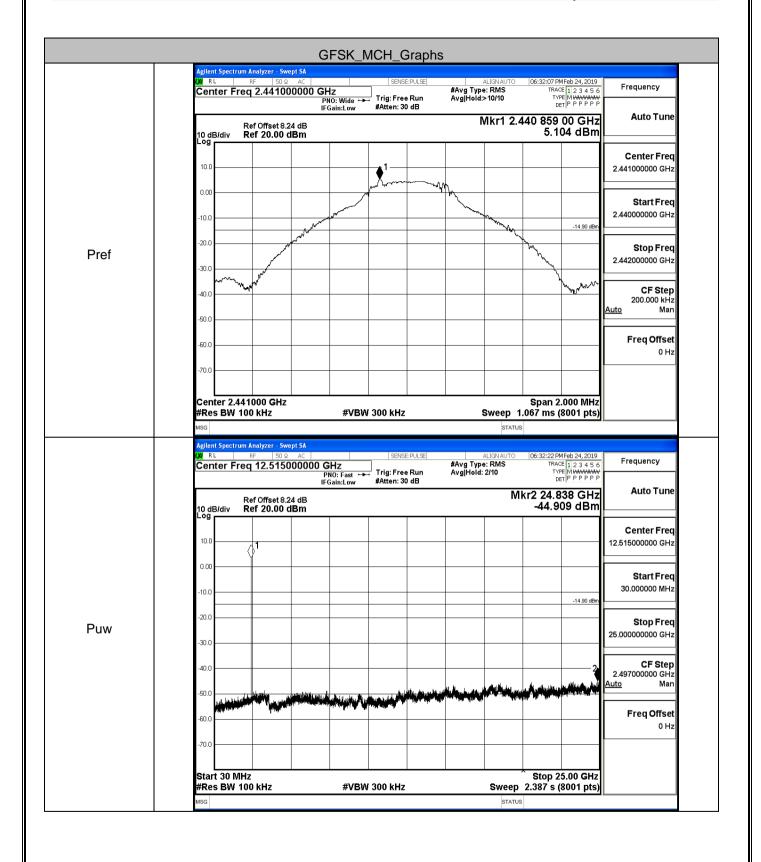


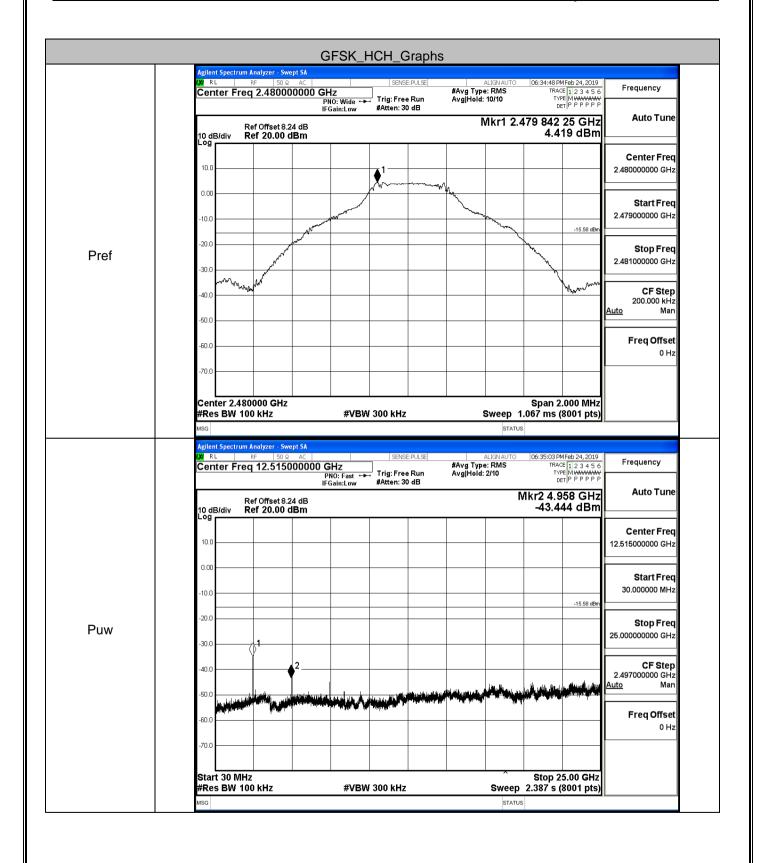
#VBW 300 kHz

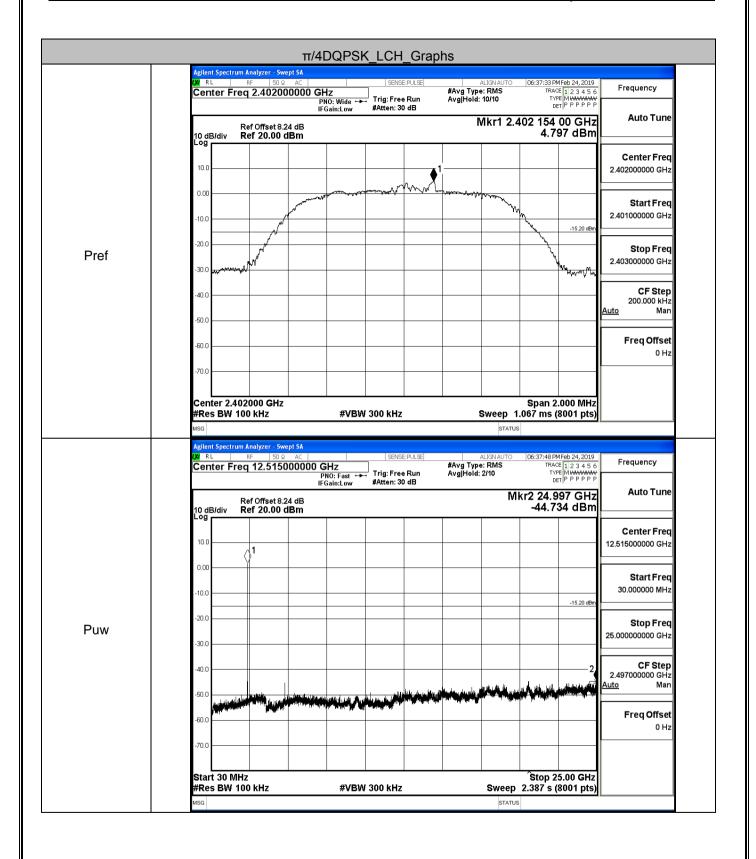
Stop 25.00 GHz Sweep 2.387 s (8001 pts)

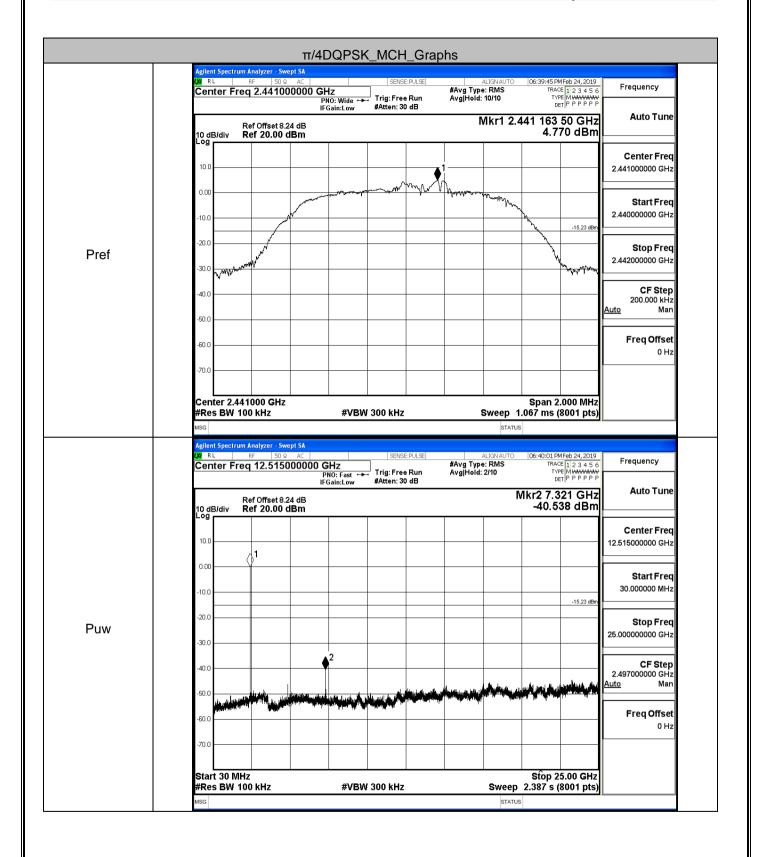
STATUS

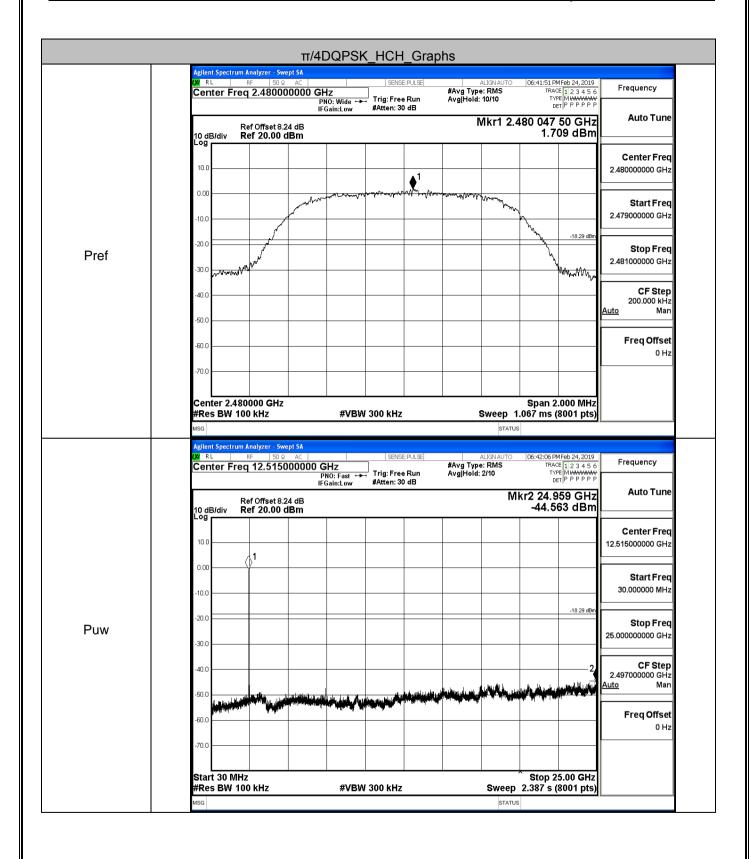
Start 30 MHz #Res BW 100 kHz





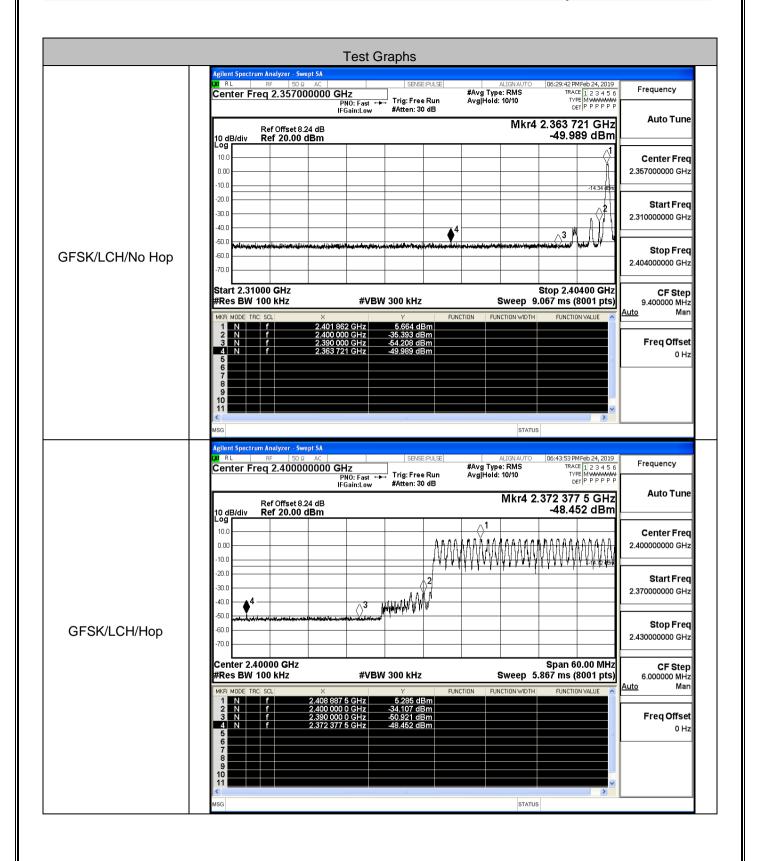


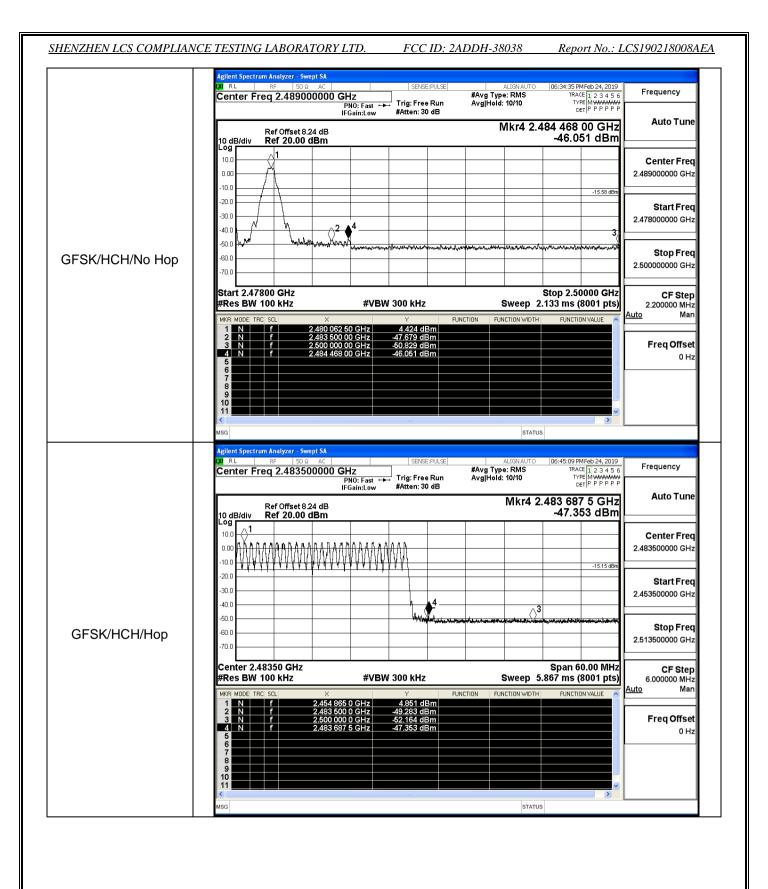


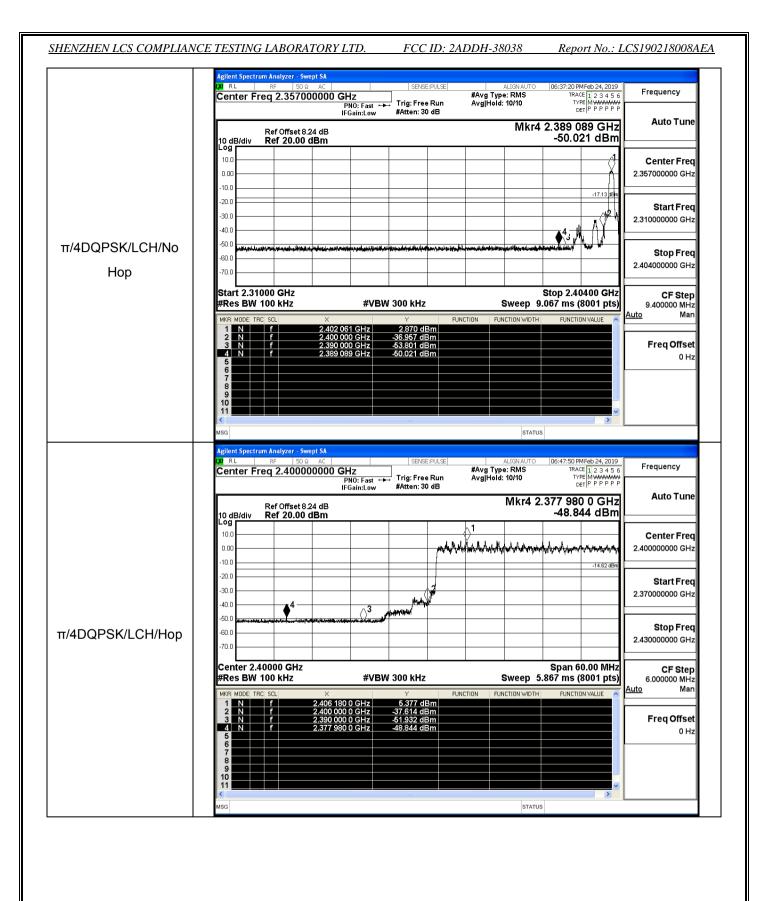


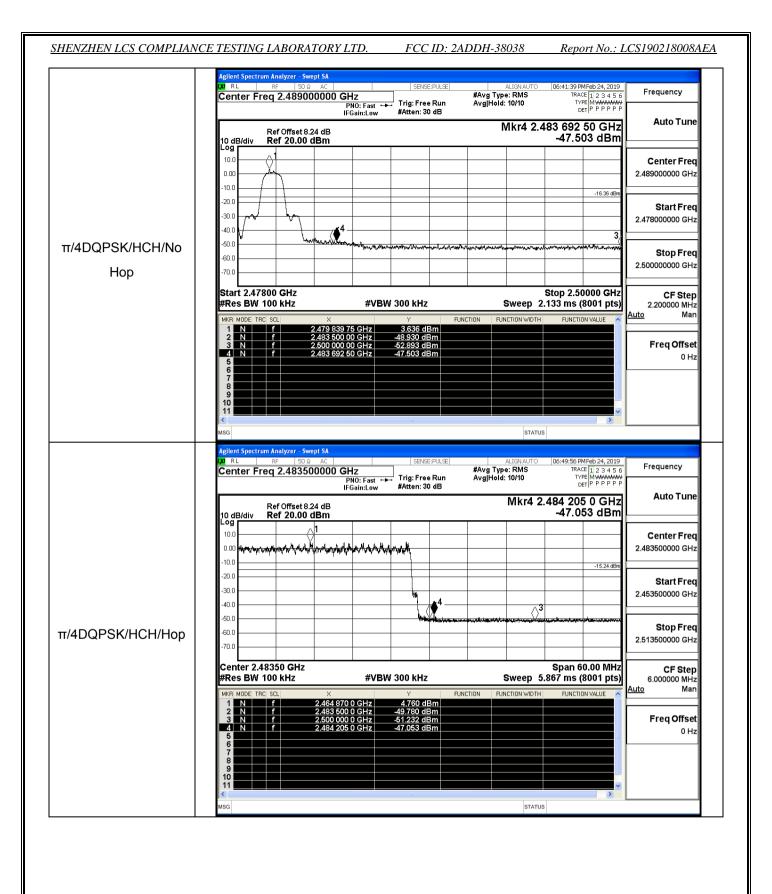
A.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
		0.400	5.664	Off	-49.989	-14.34	PASS
0.5014	LCH	2402	5.285	On	-48.452	-14.72	PASS
GFSK			4.424	Off	-46.051	-15.58	PASS
	HCH	2480	4.851	On	-47.353	-15.15	PASS
			2.870	Off	-50.021	-17.13	PASS
	LCH	2402	5.377	On	-48.844	-14.62	PASS
π/4DQPSK			3.636	Off	-47.503	-16.36	PASS
	HCH	2480	4.760	On	-47.053	-15.24	PASS



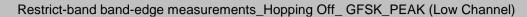


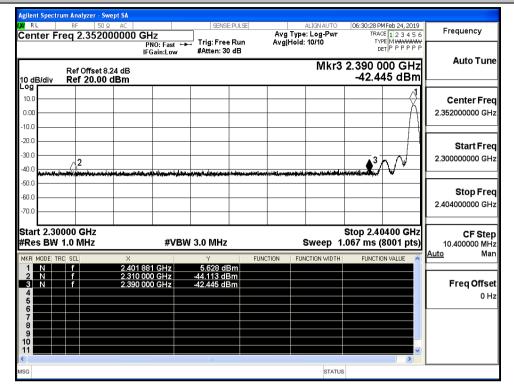




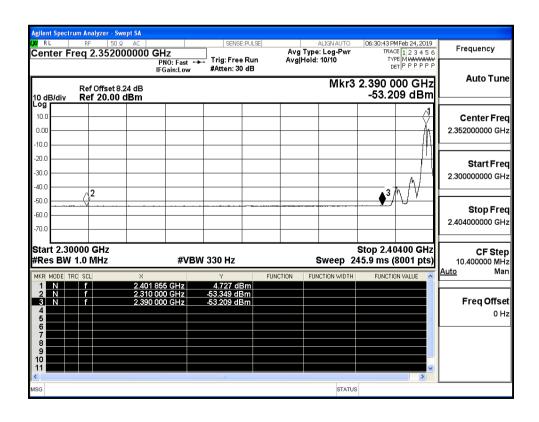
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-44.11	2.0	0	53.14	PEAK	74	PASS
	Off	2310.0	-53.35	2.0	0	43.91	AV	54	PASS
	Off	2390.0	-42.45	2.0	0	54.81	PEAK	74	PASS
	Off	2390.0	-53.21	2.0	0	44.05	AV	54	PASS
GFSK	Off	2483.5	-37.59	2.0	0	59.67	PEAK	74	PASS
	Off	2483.5	-47.63	2.0	0	49.63	AV	54	PASS
	Off	2500.0	-42.23	2.0	0	55.03	PEAK	74	PASS
	Off	2500.0	-52.97	2.0	0	44.29	AV	54	PASS
	Off	2310.0	-42.06	2.0	0	55.20	PEAK	74	PASS
	Off	2310.0	-53.64	2.0	0	43.61	AV	54	PASS
	Off	2390.0	-43.88	2.0	0	53.38	PEAK	74	PASS
	Off	2390.0	-53.28	2.0	0	43.98	AV	54	PASS
π/4DQPSK	Off	2483.5	-39.20	2.0	0	58.06	PEAK	74	PASS
	Off	2483.5	-49.07	2.0	0	48.19	AV	54	PASS
	Off	2500.0	-43.04	2.0	0	54.22	PEAK	74	PASS
	Off	2500.0	-52.82	2.0	0	44.43	AV	54	PASS

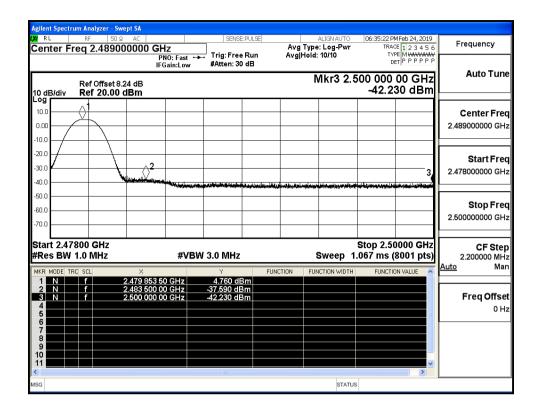




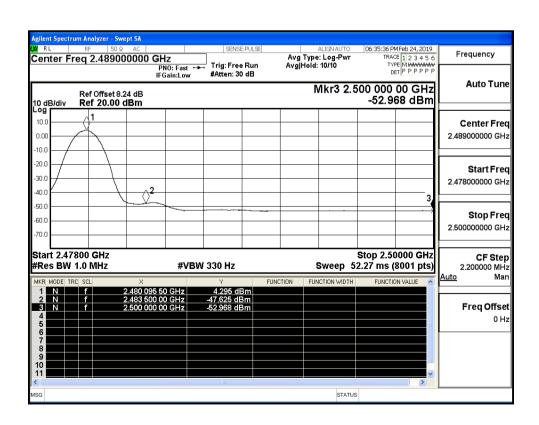
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



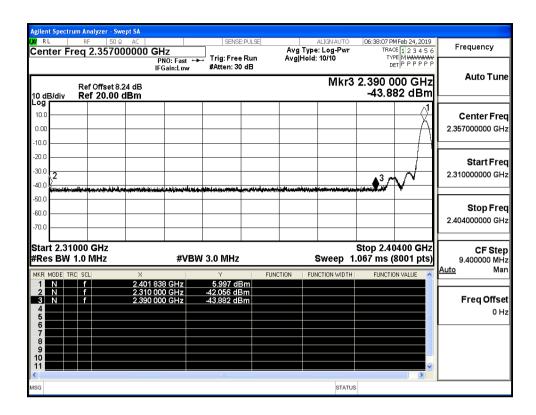
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



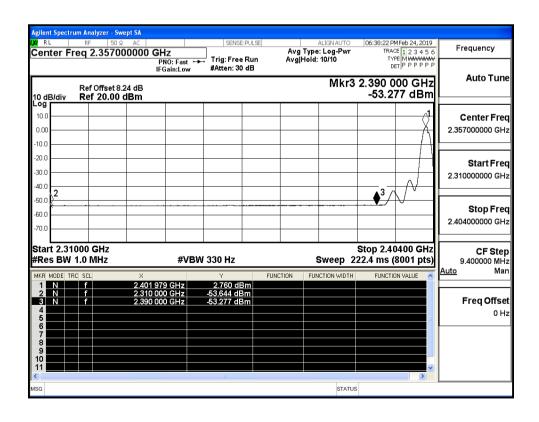
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



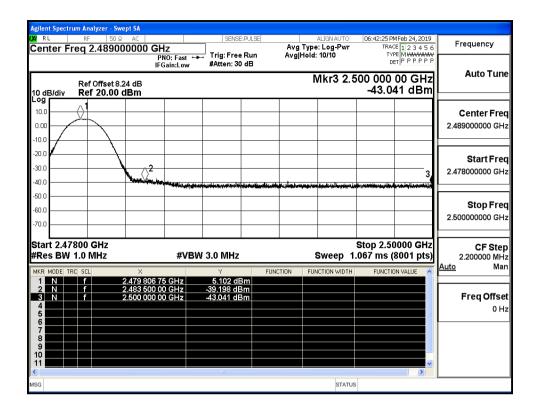
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



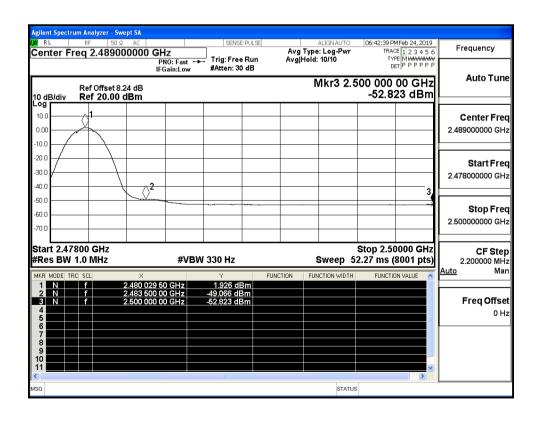
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



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)



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