Appendix A

RF Test Data for BT V4.0(BDR/EDR) (Conducted Measurement)

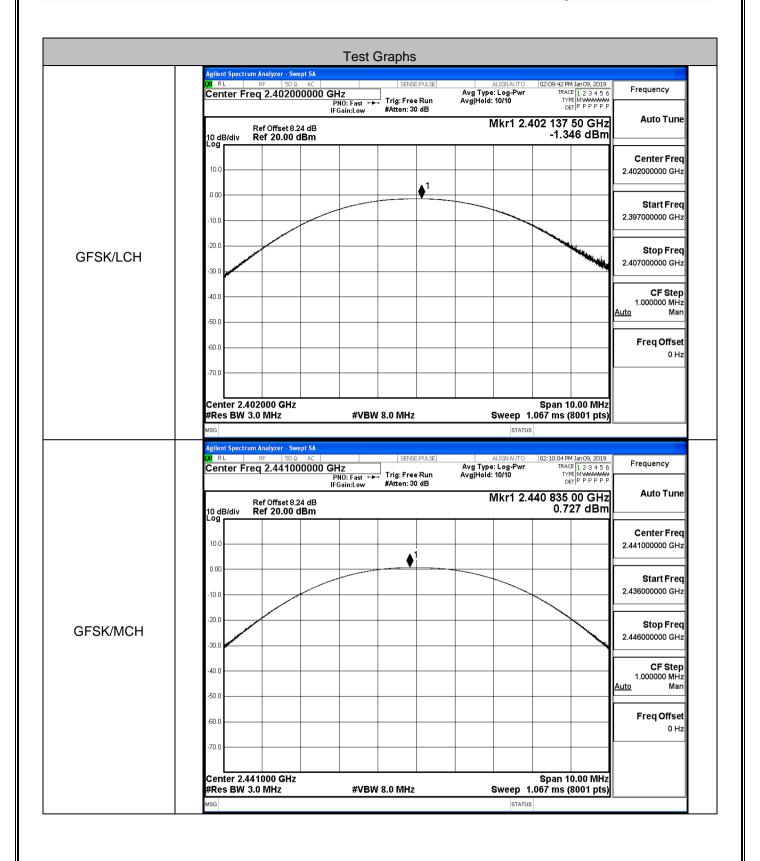
Product Name: Monster FLAME Trade Mark: Monster Test Model: MNFLAME

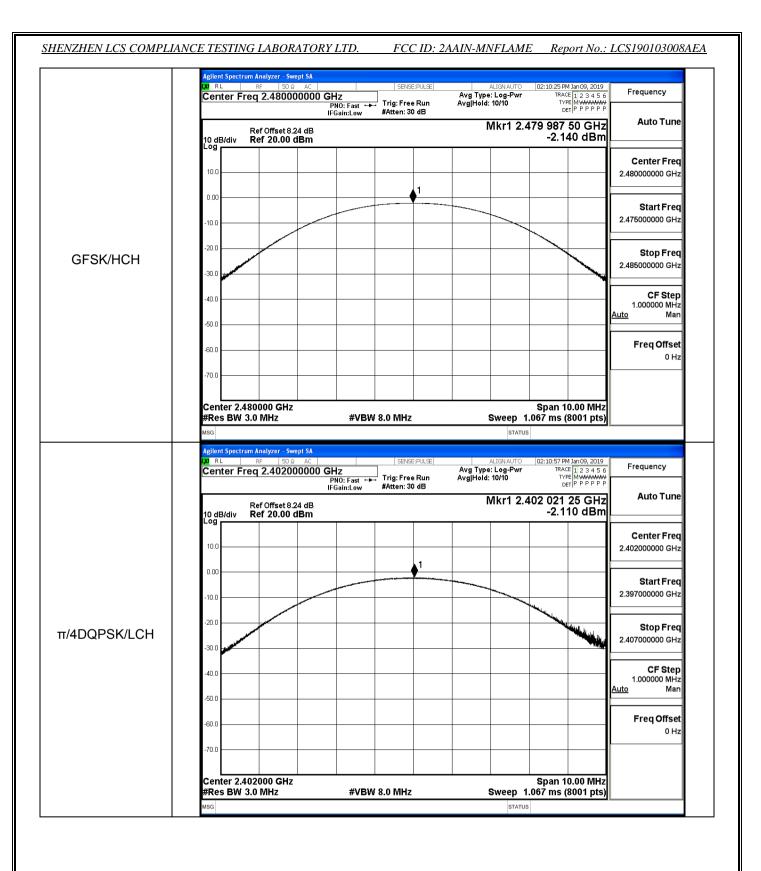
Environmental Conditions

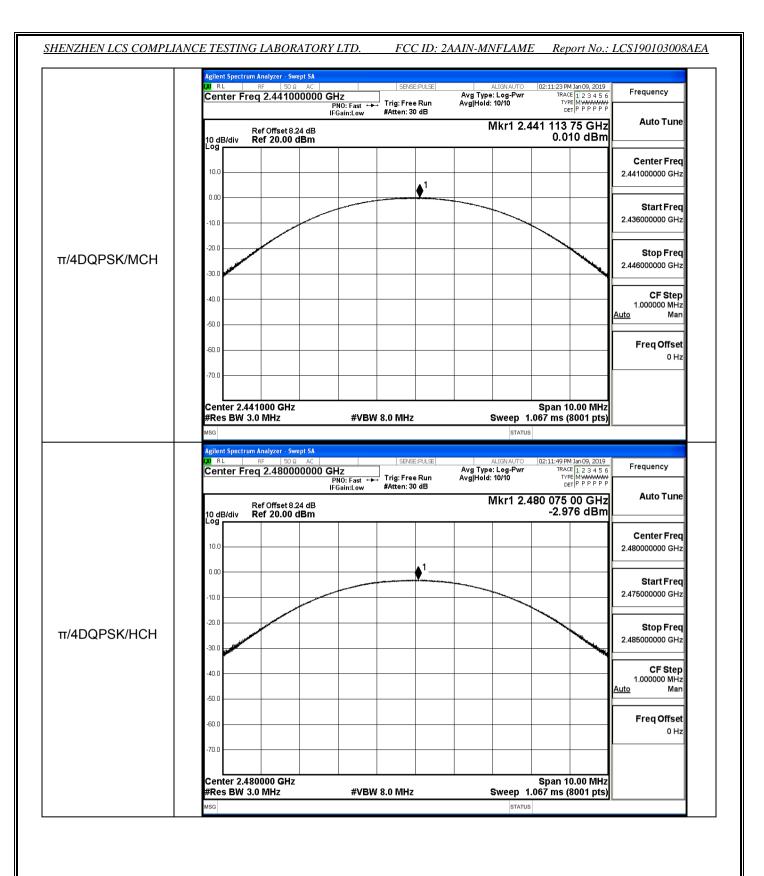
Temperature:	23.3 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond.Lu
Supervised by:	Jayden.Zhuo

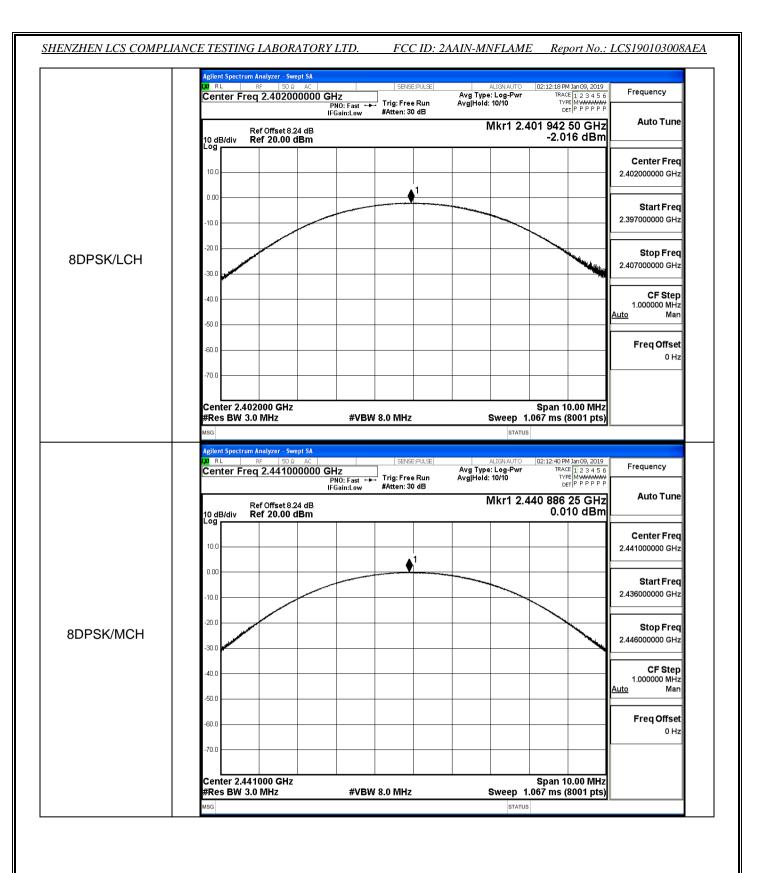
A.1 Maxmum Conducted Peak Output Power

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	-1.346	30	PASS
GFSK	MCH	0.727	30	PASS
	НСН	-2.140	30	PASS
	LCH	-2.110	21	PASS
π/4DQPSK	MCH	0.010	21	PASS
	HCH	-2.976	21	PASS
	LCH	-2.016	21	PASS
8DPSK	MCH	0.010	21	PASS
	НСН	-2.920	21	PASS







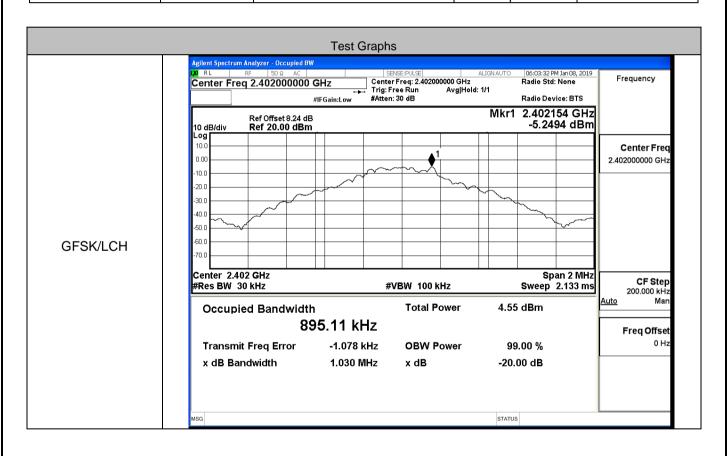


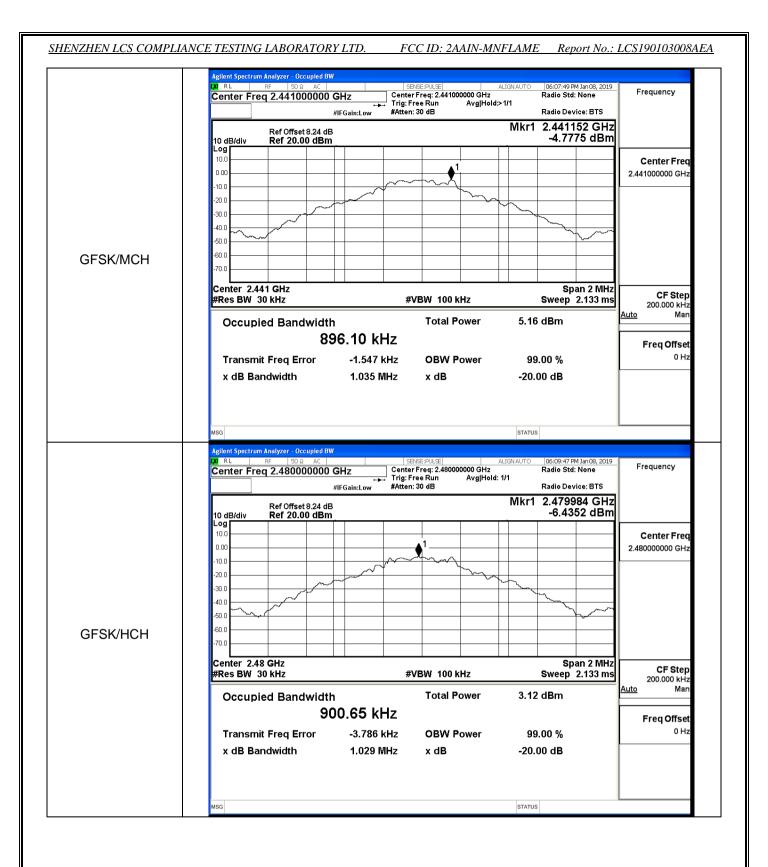
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AAIN-MNFLAME Report No.: LCS190103008AEA Agilent Spectrum Analyzer - Swept SA TO 02:13:01 PM Jan 09, 2019 WY TRACE 1 2 3 4 5 6 TYPE MWWWWWWWW DET P P P P P P SENSE:PULSE Avg Type: Log-Pwr Avg|Hold: 10/10 Frequency Mkr1 2.480 058 75 GHz -2.920 dBm Auto Tune Ref Offset 8.24 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**

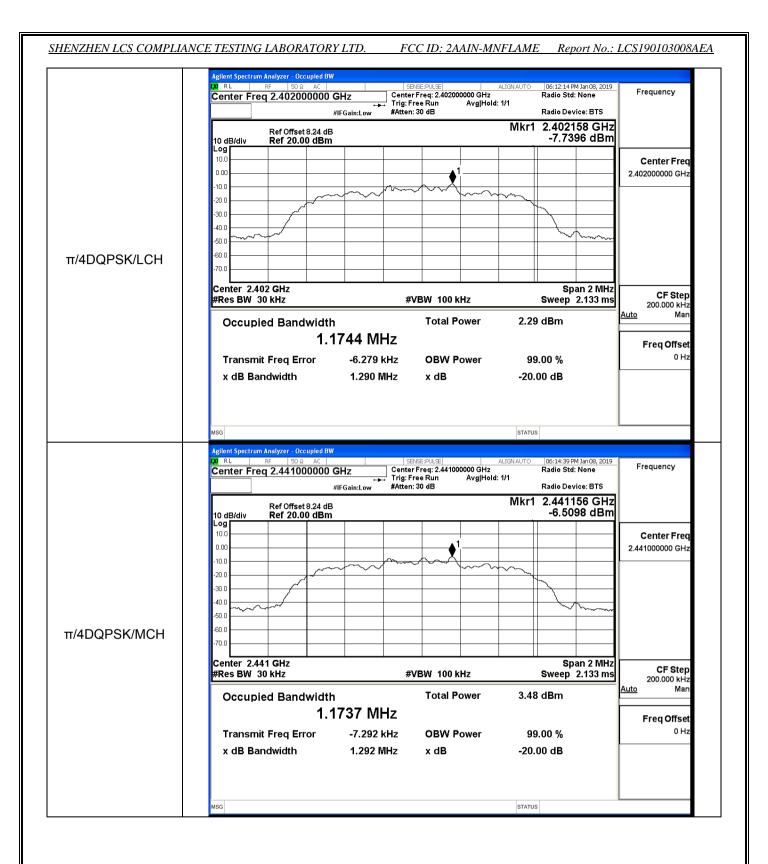
STATUS

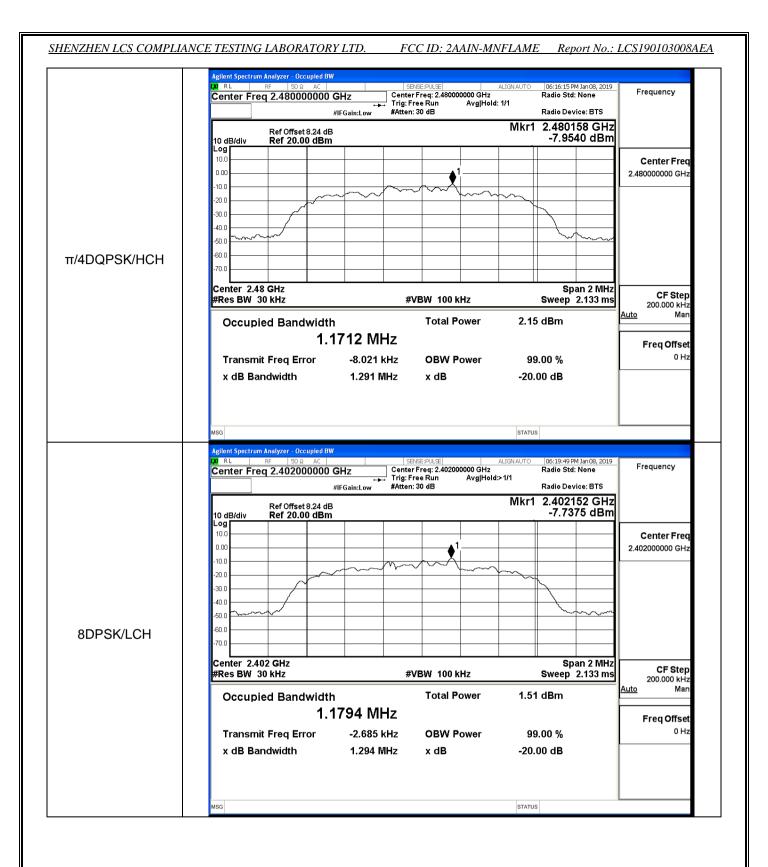
A.2 20dB Bandwidth

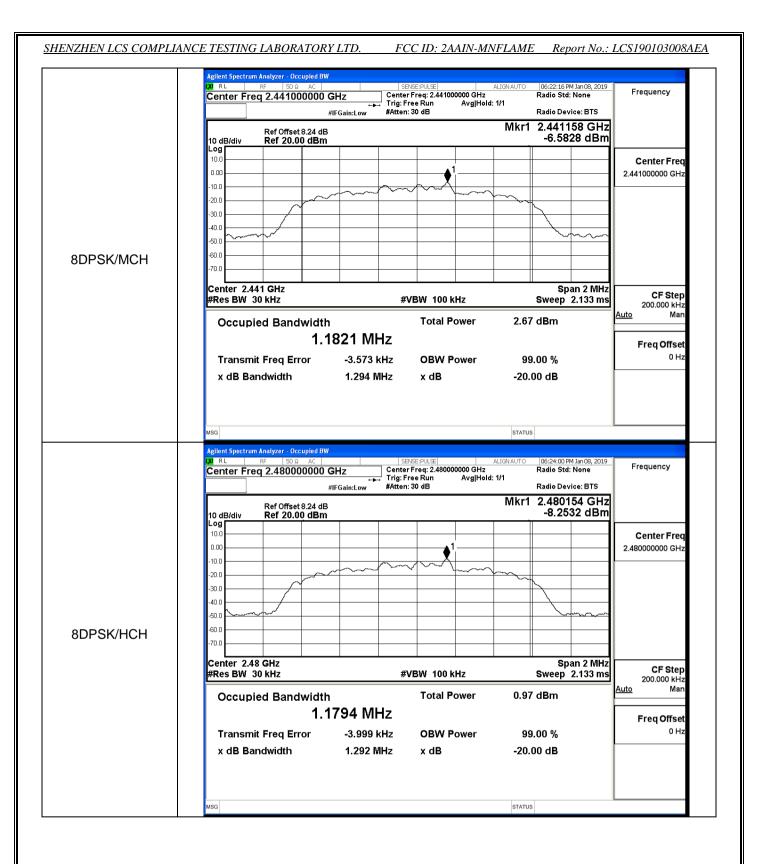
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	1.030	Not Specified	PASS
GFSK	MCH	1.035	Not Specified	PASS
	НСН	1.029	Not Specified	PASS
π/4DQPSK	LCH	1.290	Not Specified	PASS
	MCH	1.292	Not Specified	PASS
	НСН	1.291	Not Specified	PASS
	LCH	1.294	Not Specified	PASS
8DPSK	MCH	1.294	Not Specified	PASS
	НСН	1.292	Not Specified	PASS





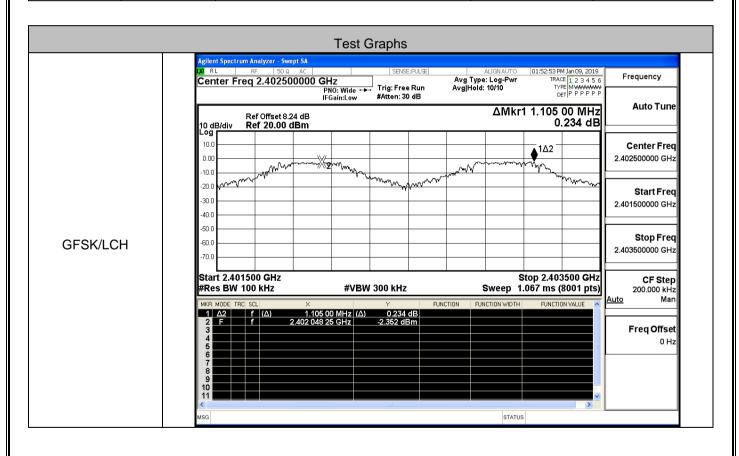


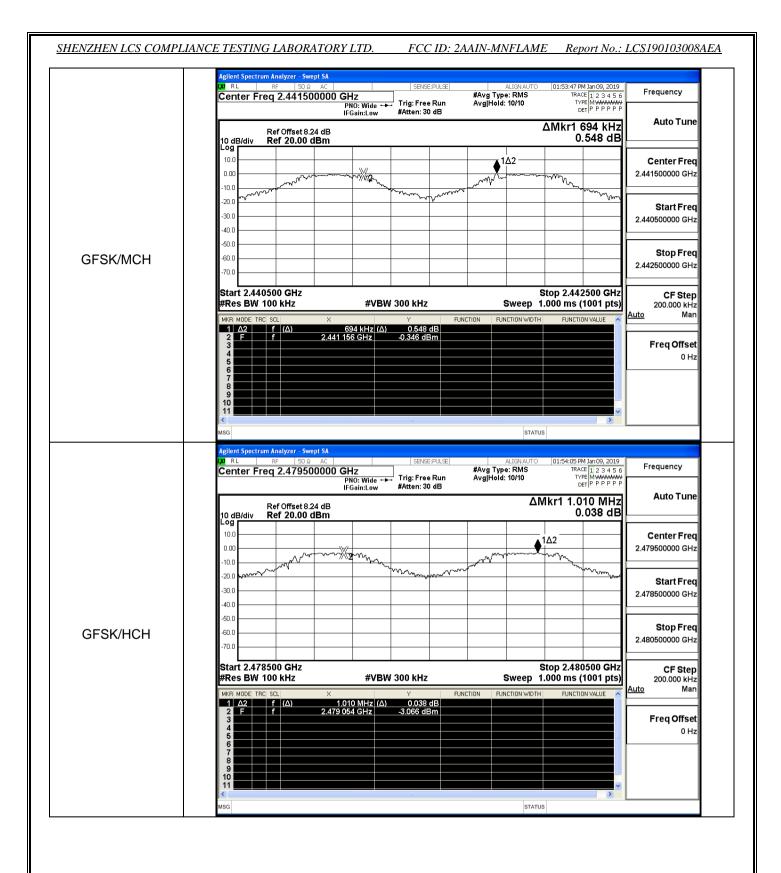


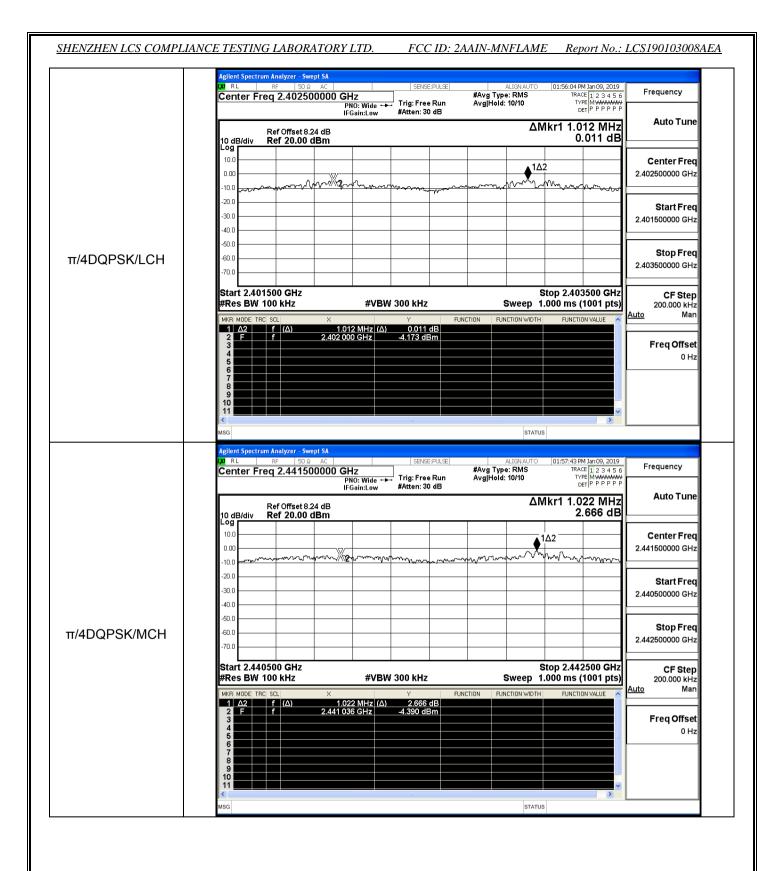


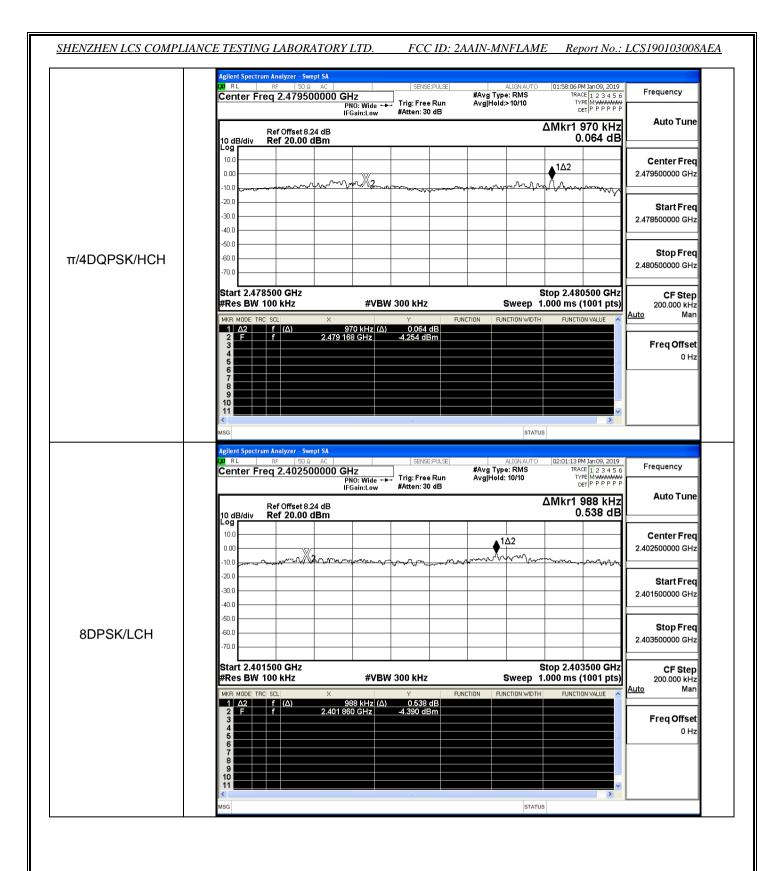
A.3 Carrier Frequency Separation

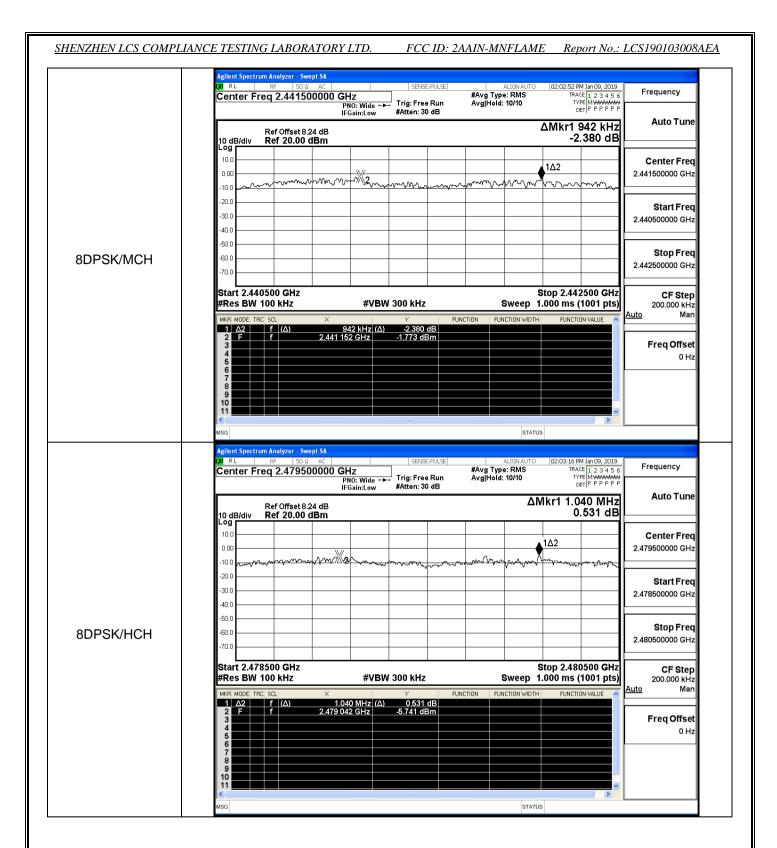
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	1.105	0.690	PASS
GFSK	MCH	0.694	0.690	PASS
	HCH	1.010	0.690	PASS
	LCH	1.012	0.861	PASS
π/4DQPSK	MCH	1.022	0.861	PASS
	HCH	0.970	0.861	PASS
	LCH	0.988	0.863	PASS
8DPSK	MCH	0.942	0.863	PASS
	HCH	1.040	0.863	PASS





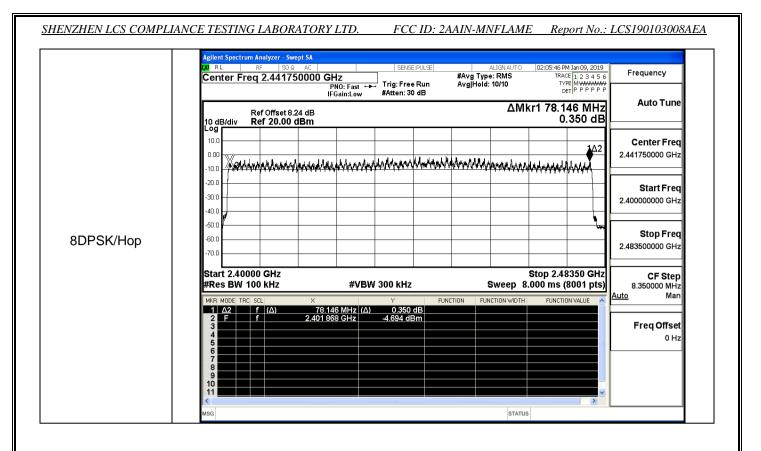






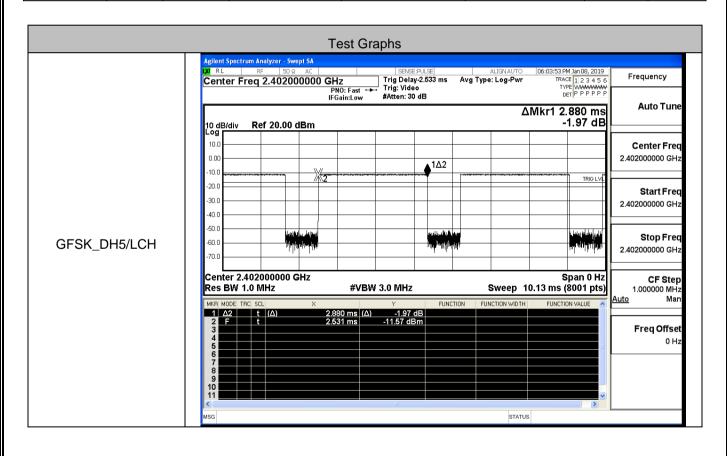
A.4 Hopping Channel Number

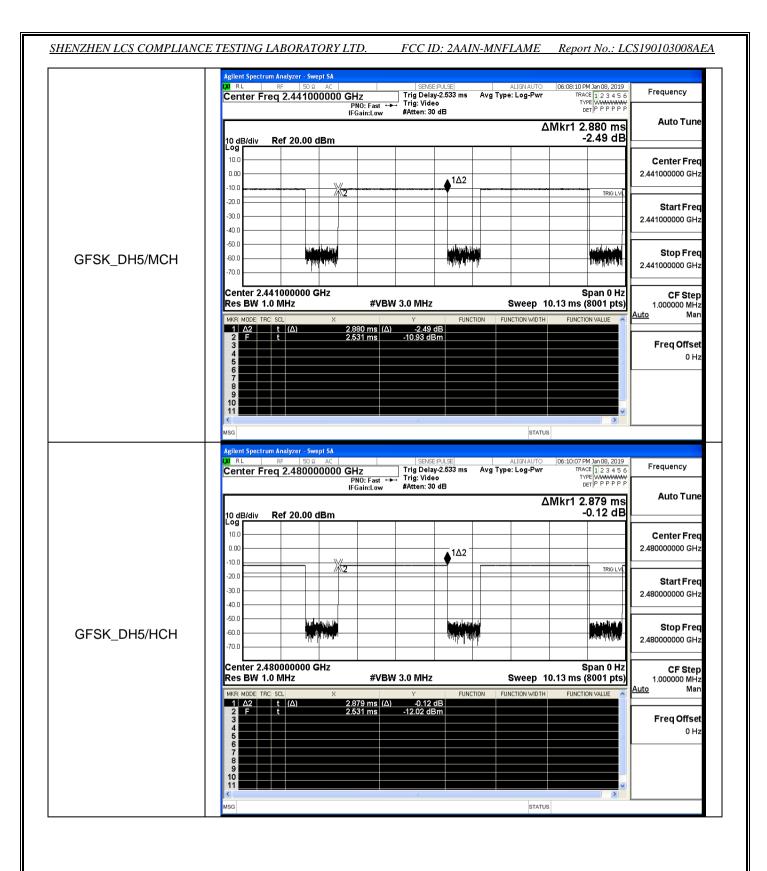
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS
8DPSK	Нор	79	>=15	PASS

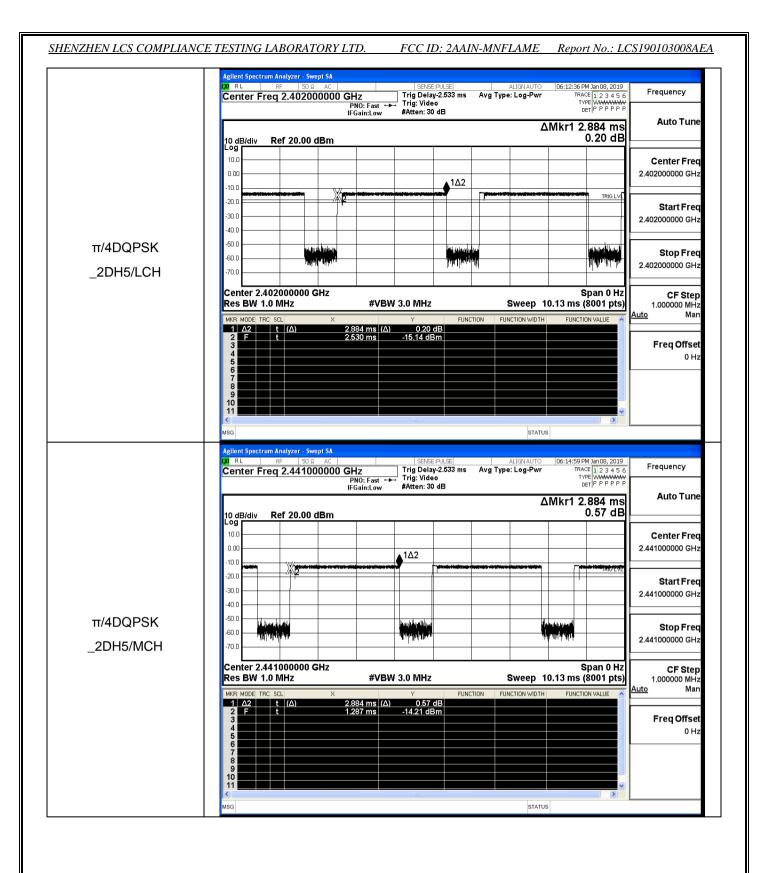


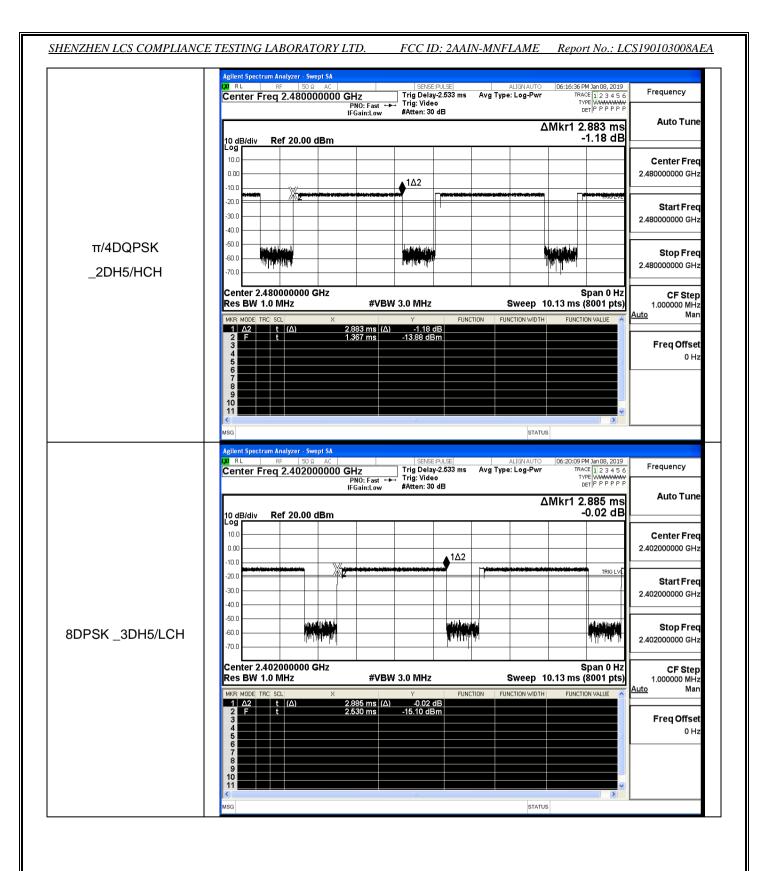
A.5 Dwell Time

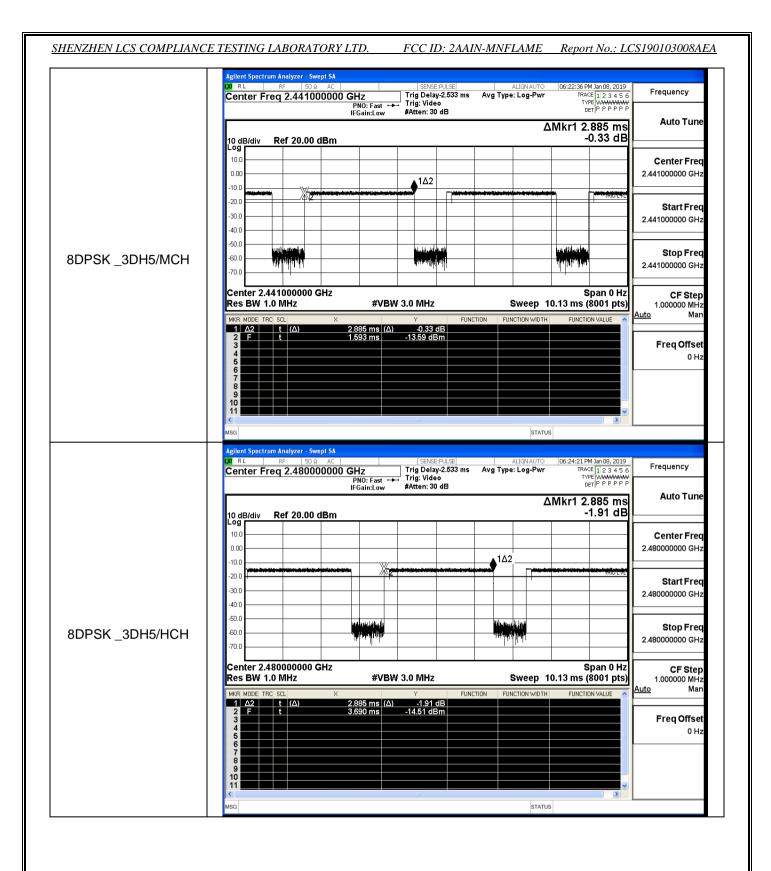
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
	DH5	LCH	2.88	106.7	0.307	0.4	PASS
GFSK	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	HCH	2.88	106.7	0.307	0.4	PASS
	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
π/4DQPSK	2DH5	MCH	2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	2.88	106.7	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





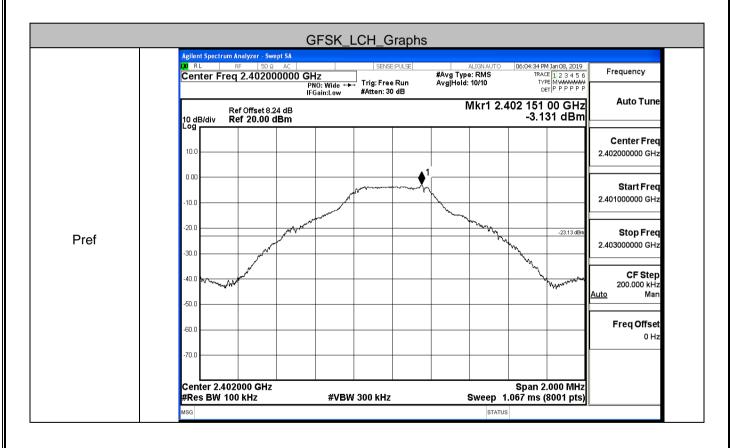




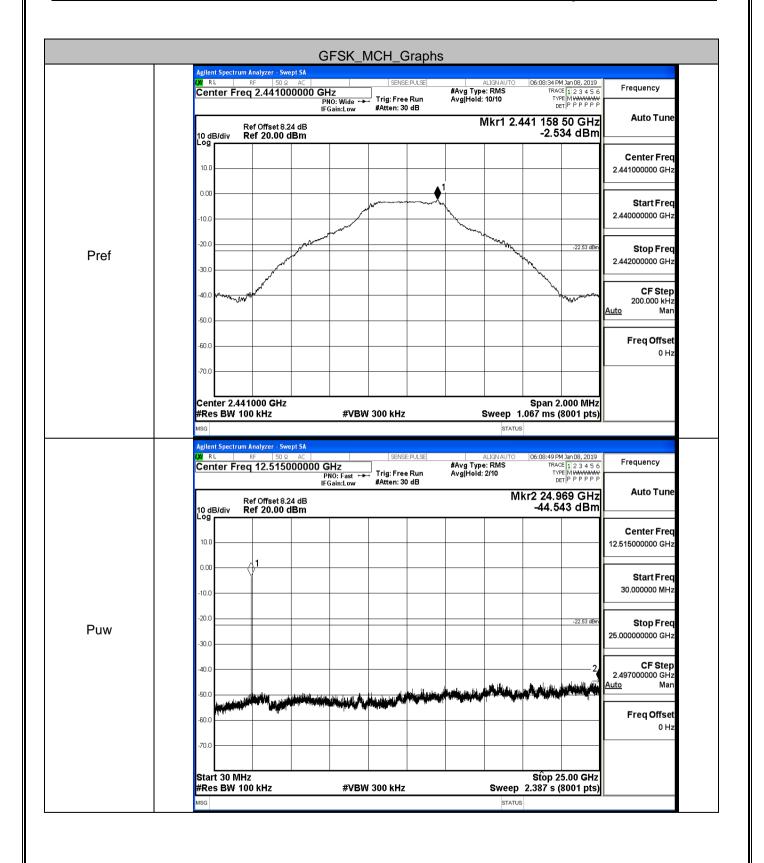


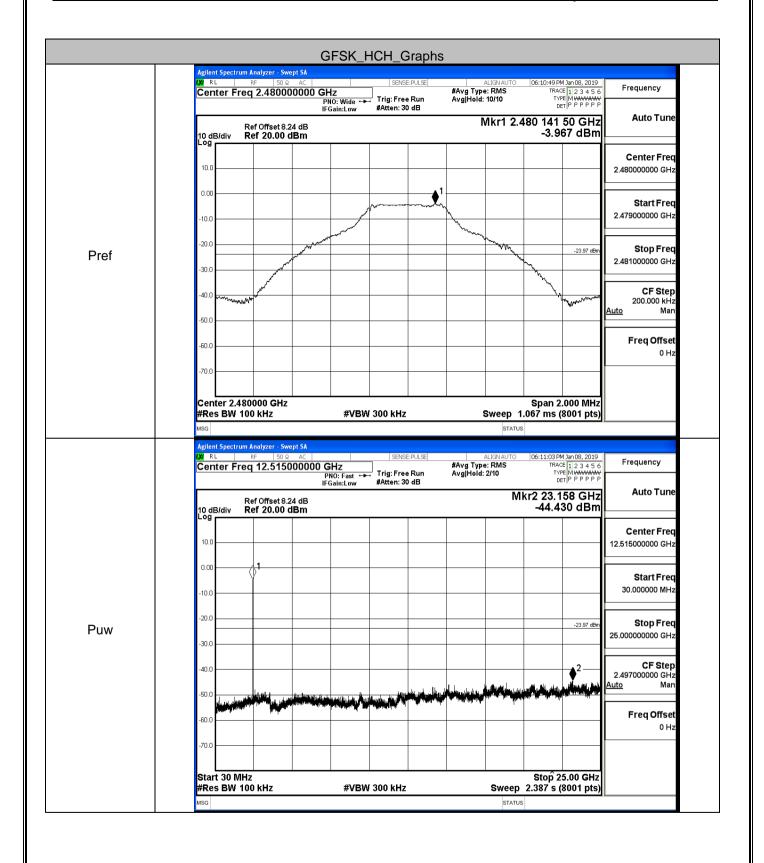
A.6 RF Conducted Spurious Emissions

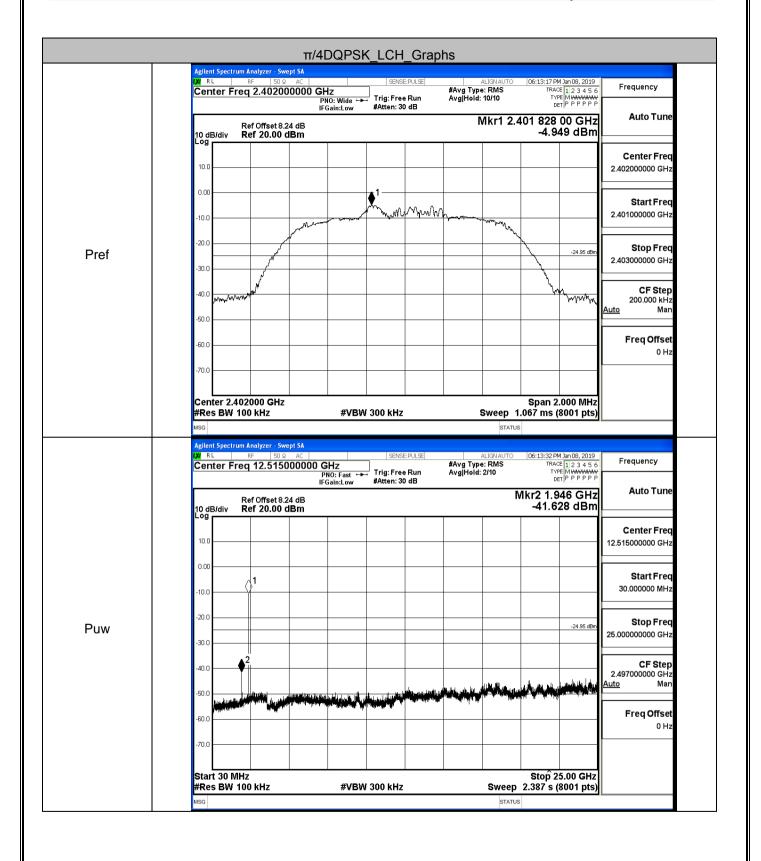
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	-3.131	-43.880	-23.131	PASS
GFSK	MCH	-2.534	-44.543	-22.534	PASS
	HCH	-3.967	-44.430	-23.967	PASS
	LCH	-4.949	-41.628	-24.949	PASS
π/4DQPSK	MCH	-3.793	-43.745	-23.793	PASS
	HCH	-6.282	-37.065	-26.282	PASS
	LCH	-5.597	-44.219	-25.597	PASS
8DPSK	MCH	-4.448	-43.708	-24.448	PASS
	НСН	-6.192	-44.159	-26.192	PASS

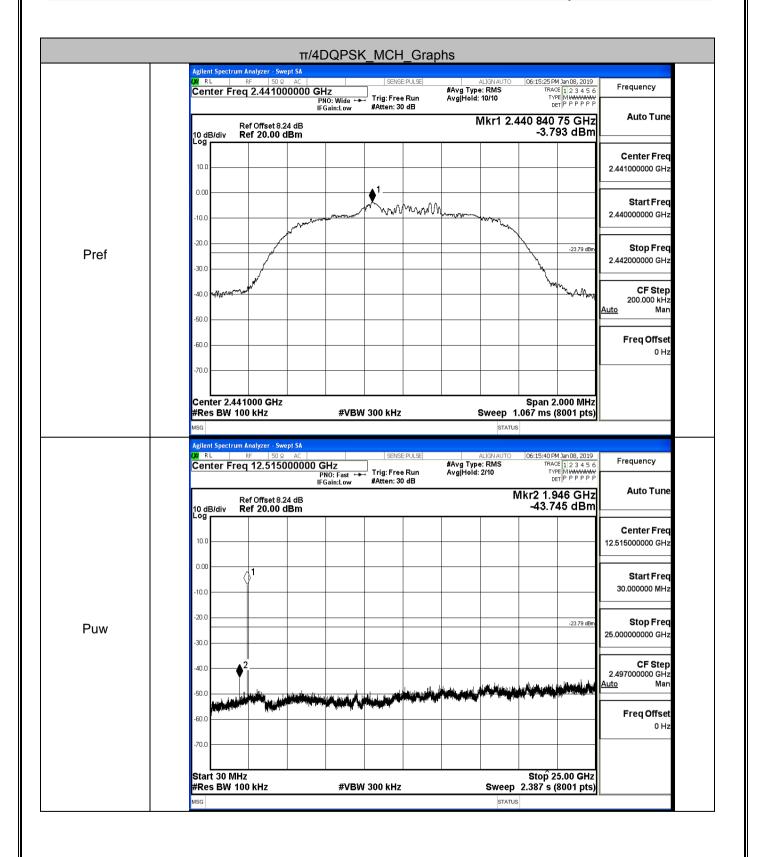


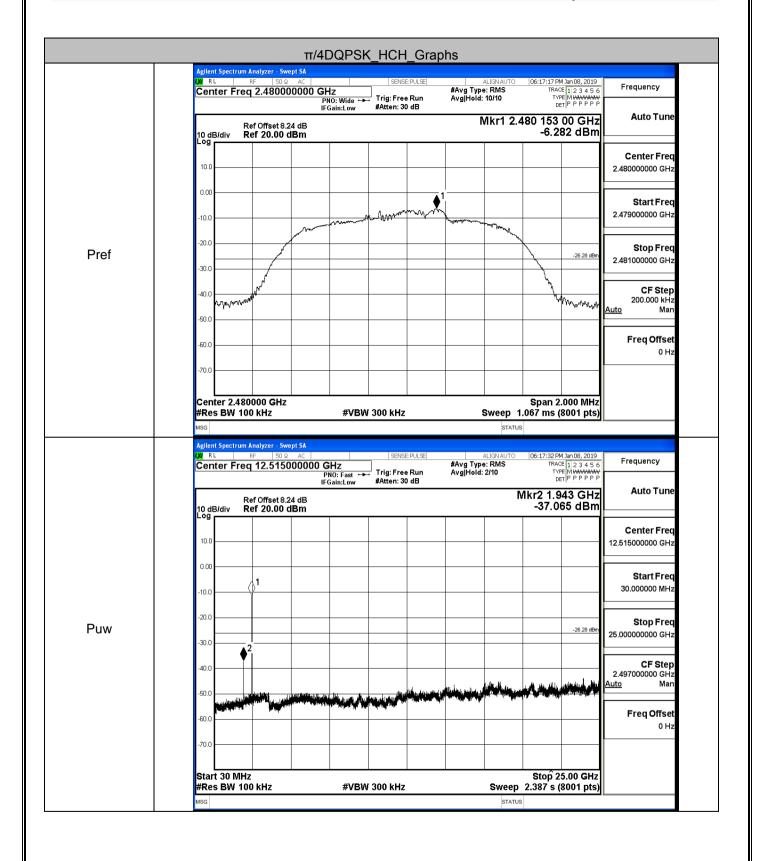
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AAIN-MNFLAME Report No.: LCS190103008AEA Agilent Spectrum Analyzer - Swept SA 06:04:48 PM Jan 08, 2019 TRACE 1 2 3 4 5 6 TYPE M WWWWWW DET P P P P P P #Avg Type: RMS Avg|Hold: 2/10 Frequency Mkr2 24.947 GHz -43.880 dBm **Auto Tune** Ref Offset 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 -23.13 dBrr 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

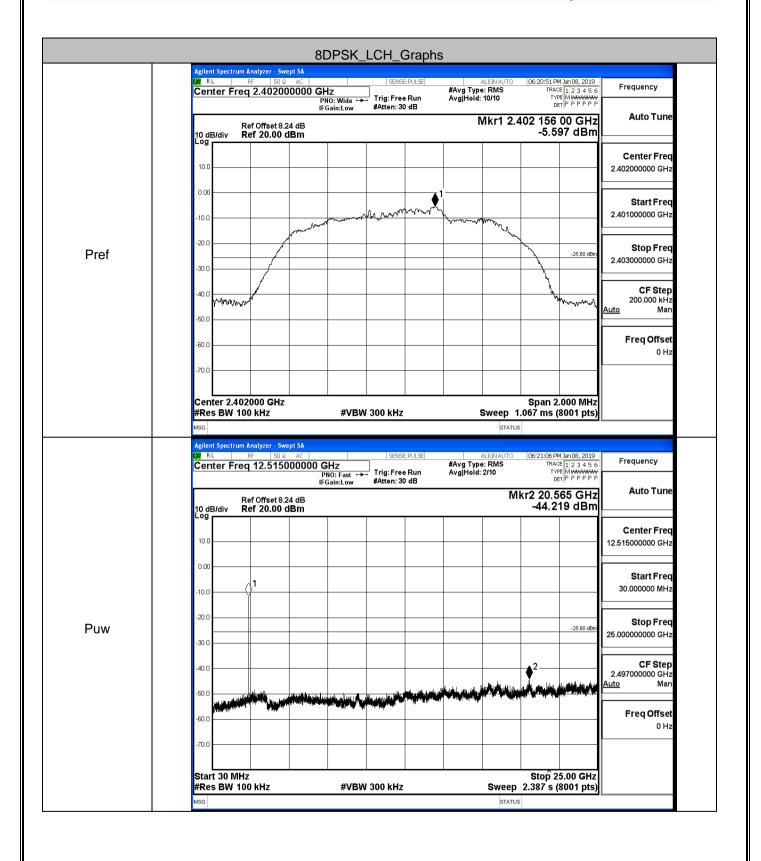


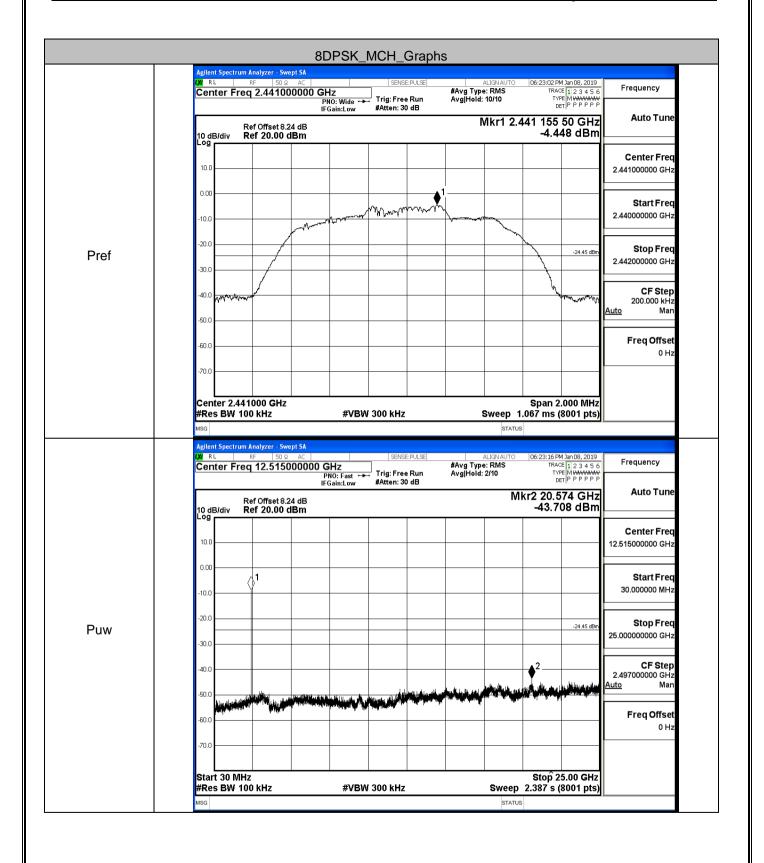


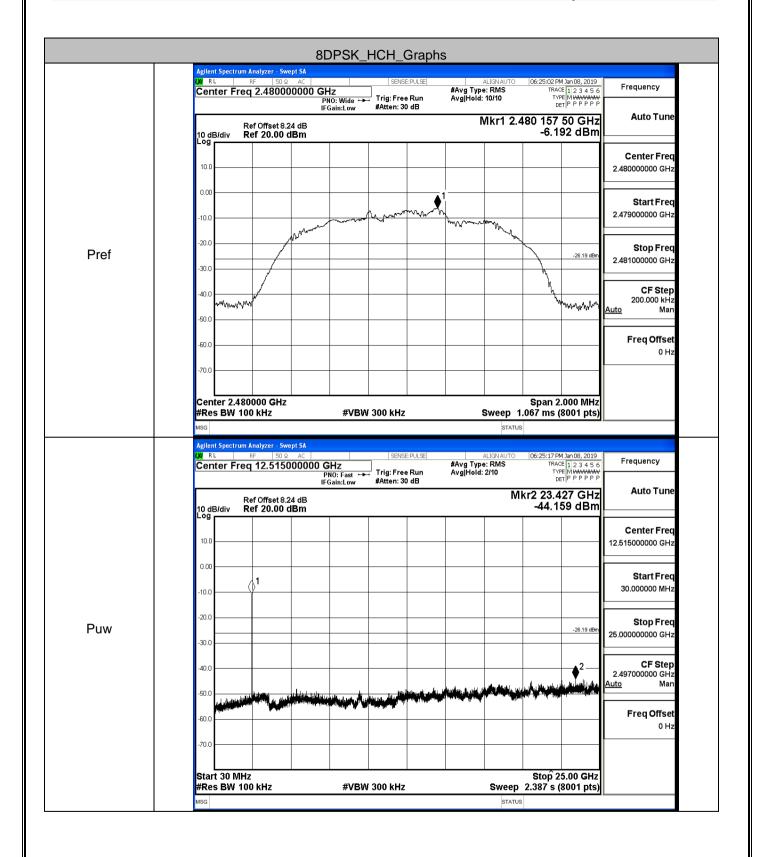






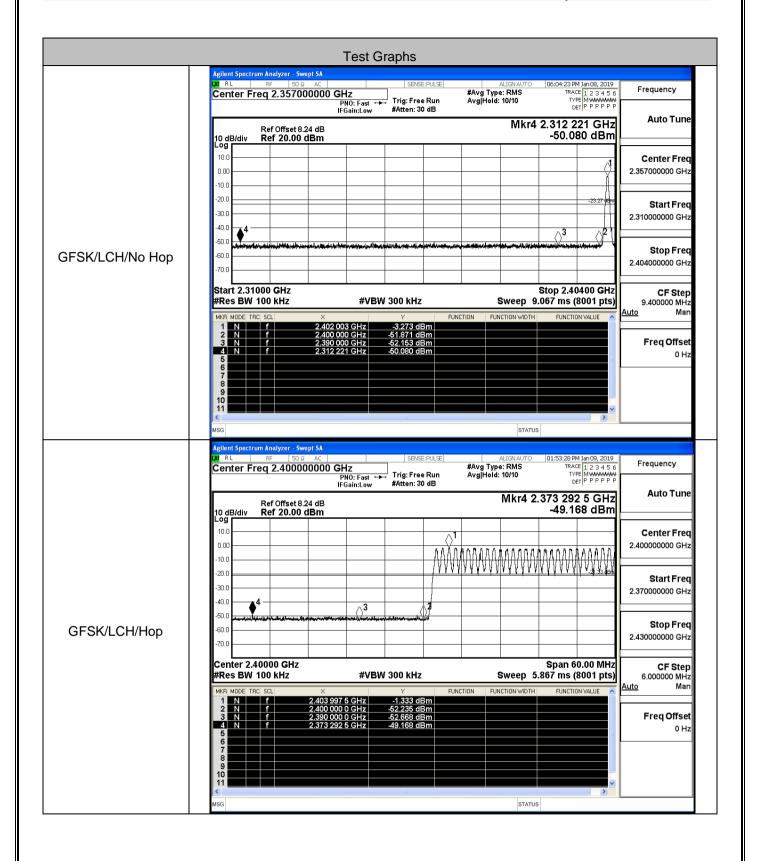


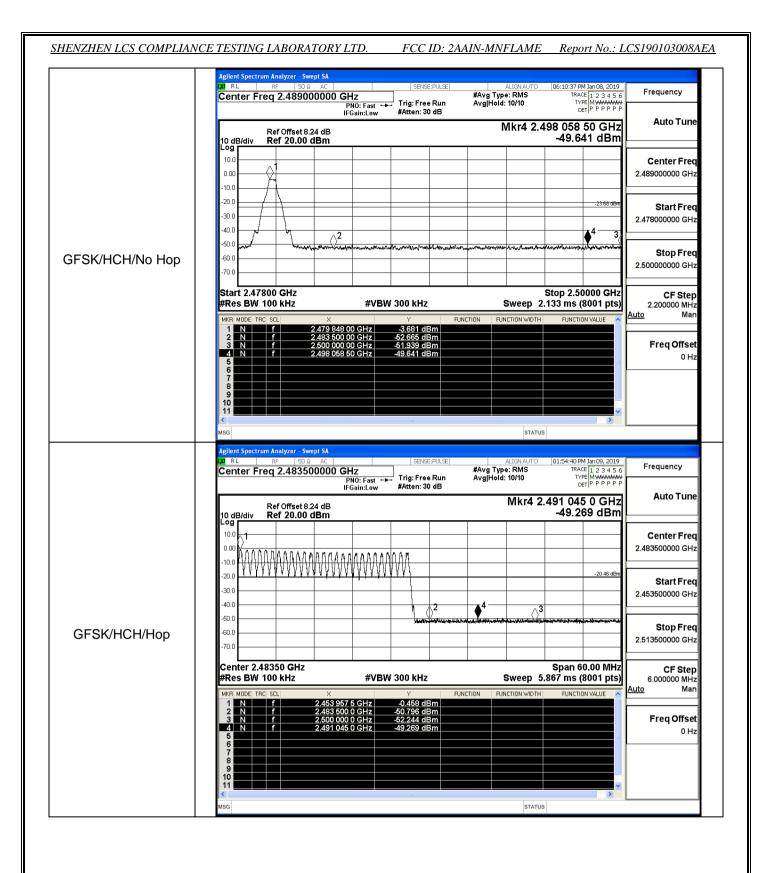


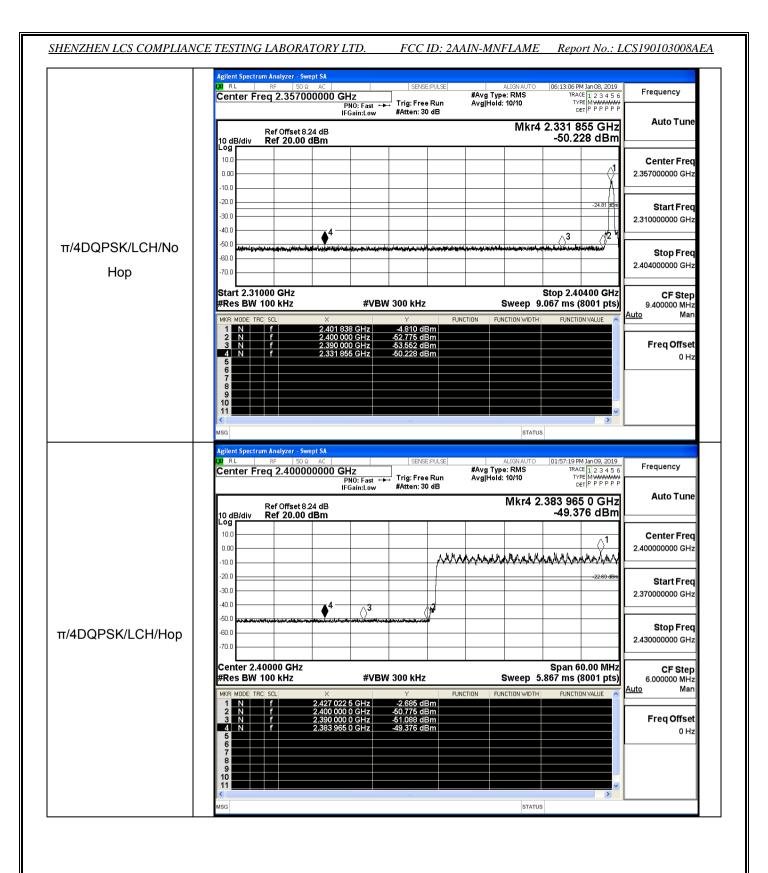


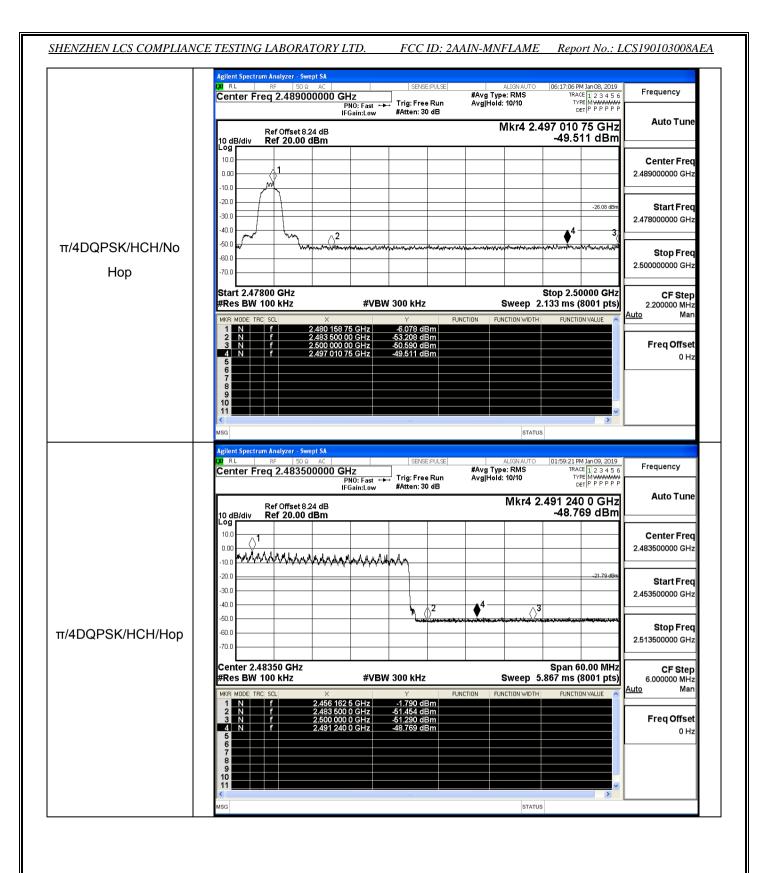
A.7 Band-edge for RF Conducted Emissions

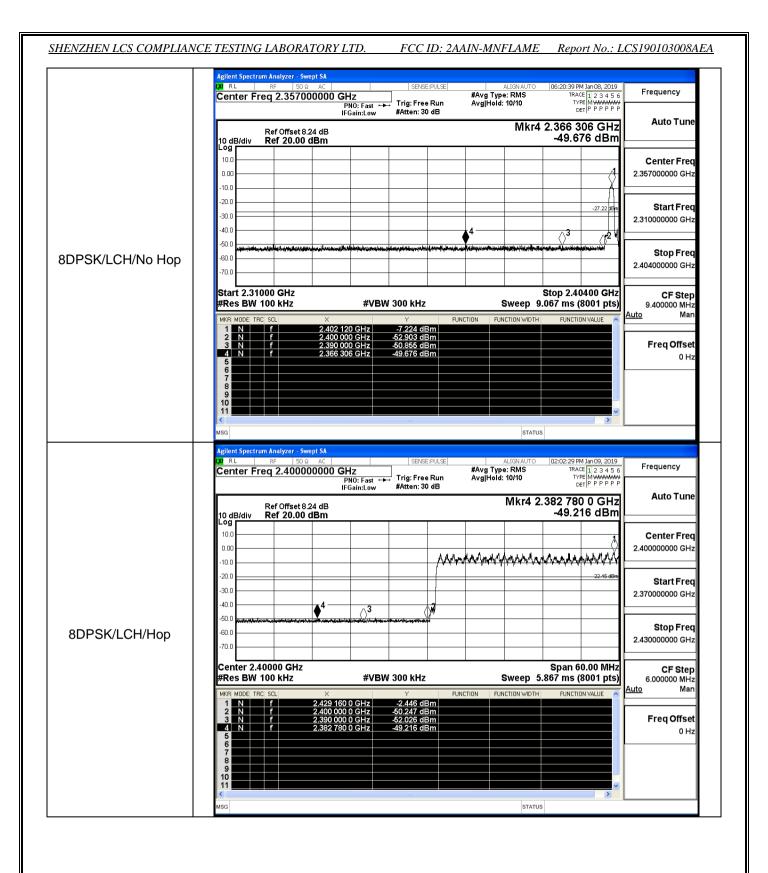
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
		0.400	-3.273	Off	-50.080	-23.27	PASS
	LCH	2402	-1.333	On	-49.168	-21.33	PASS
GFSK		2480	-3.681	Off	-49.641	-23.68	PASS
	HCH		-0.458	On	-49.269	-20.46	PASS
	LCH		-4.810	Off	-50.228	-24.81	PASS
		2402	-2.685	On	-49.376	-22.69	PASS
π/4DQPSK	нсн	2480	-6.078	Off	-49.511	-26.08	PASS
			-1.790	On	-48.769	-21.79	PASS
			-7.224	Off	-49.676	-27.22	PASS
	LCH	2402	-2.446	On	-49.216	-22.45	PASS
8DPSK		2.100	-6.122	Off	-49.609	-26.12	PASS
	HCH	2480	-2.125	On	-49.167	-22.13	PASS

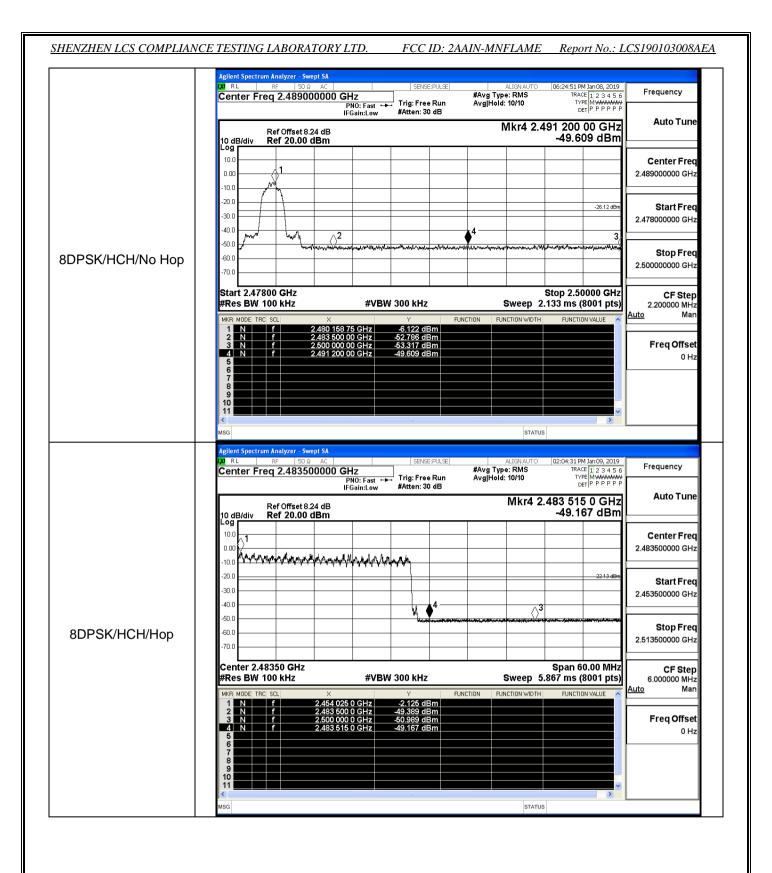






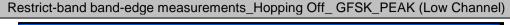


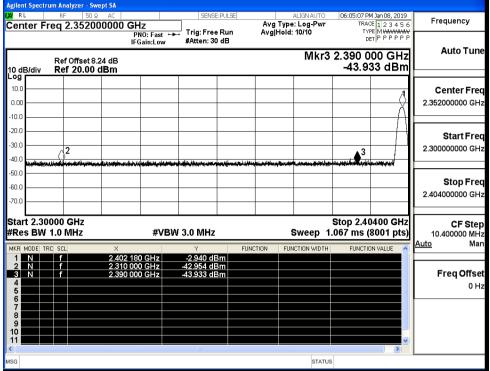




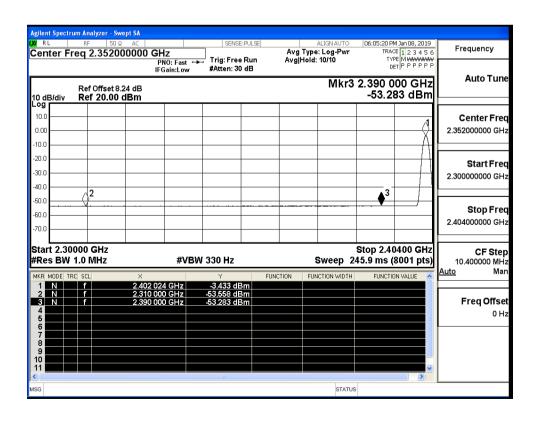
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-42.95	4.0	0	56.31	PEAK	74	PASS
	Off	2310.0	-53.56	4.0	0	45.70	AV	54	PASS
	Off	2390.0	-43.93	4.0	0	55.33	PEAK	74	PASS
	Off	2390.0	-53.28	4.0	0	45.98	AV	54	PASS
GFSK	Off	2483.5	-42.66	4.0	0	56.60	PEAK	74	PASS
	Off	2483.5	-53.12	4.0	0	46.14	AV	54	PASS
	Off	2500.0	-43.63	4.0	0	55.63	PEAK	74	PASS
	Off	2500.0	-52.95	4.0	0	46.31	AV	54	PASS
	Off	2310.0	-42.55	4.0	0	56.71	PEAK	74	PASS
	Off	2310.0	-53.62	4.0	0	45.64	AV	54	PASS
	Off	2390.0	-42.17	4.0	0	57.09	PEAK	74	PASS
(45.050)	Off	2390.0	-53.28	4.0	0	45.98	AV	54	PASS
π/4DQPSK	Off	2483.5	-43.85	4.0	0	55.41	PEAK	74	PASS
	Off	2483.5	-53.13	4.0	0	46.13	AV	54	PASS
	Off	2500.0	-41.65	4.0	0	57.61	PEAK	74	PASS
	Off	2500.0	-53.00	4.0	0	46.26	AV	54	PASS
	Off	2310.0	-43.30	4.0	0	55.96	PEAK	74	PASS
	Off	2310.0	-53.40	4.0	0	45.86	AV	54	PASS
	Off	2390.0	-41.84	4.0	0	57.42	PEAK	74	PASS
	Off	2390.0	-53.32	4.0	0	45.94	AV	54	PASS
8DPSK	Off	2483.5	-42.56	4.0	0	56.70	PEAK	74	PASS
	Off	2483.5	-53.06	4.0	0	46.20	AV	54	PASS
	Off	2500.0	-42.62	4.0	0	56.64	PEAK	74	PASS
	Off	2500.0	-52.99	4.0	0	46.27	AV	54	PASS

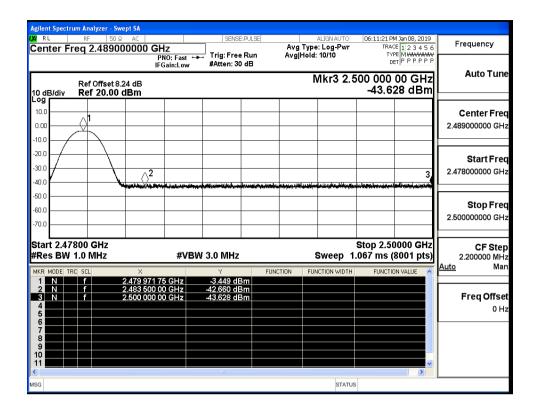




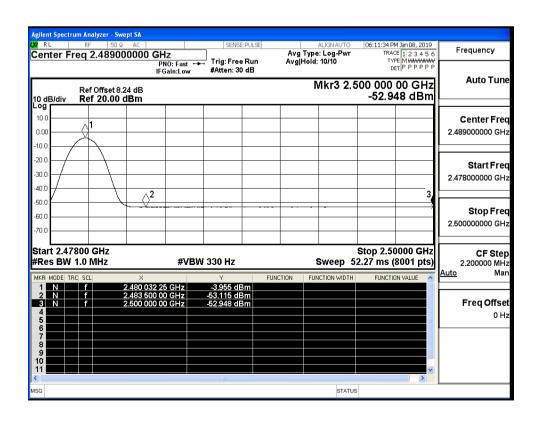
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



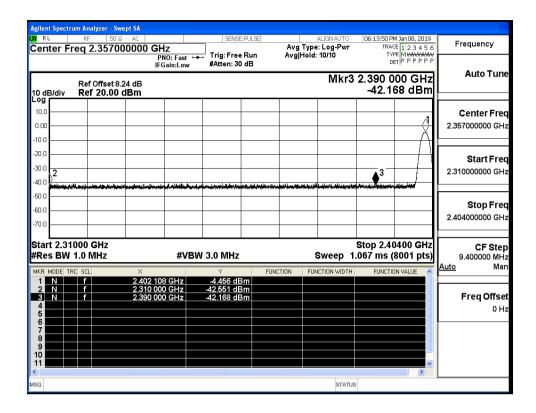
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



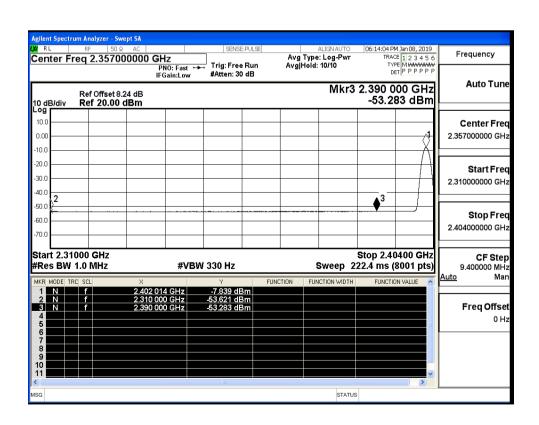
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



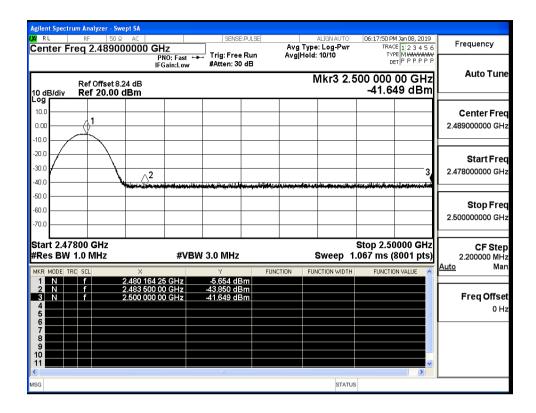
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



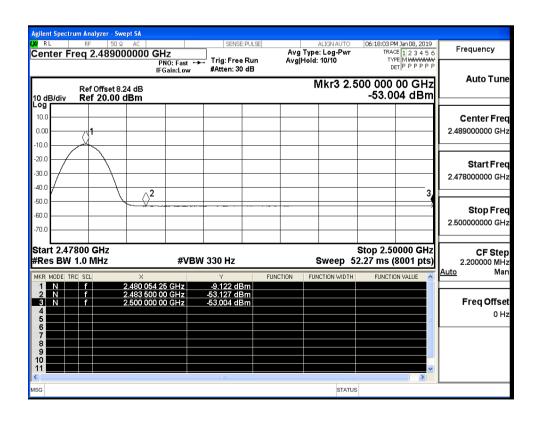
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



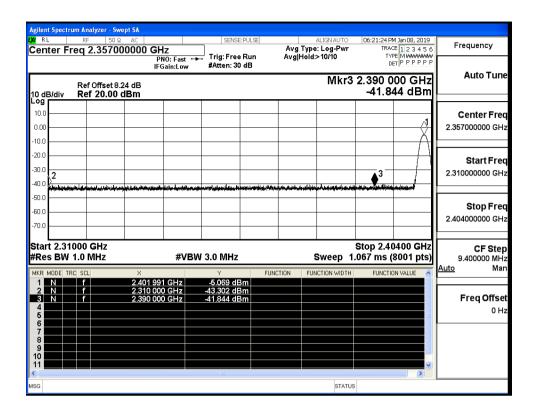
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



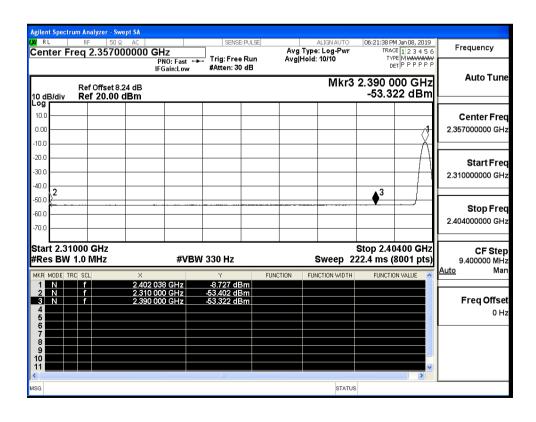
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



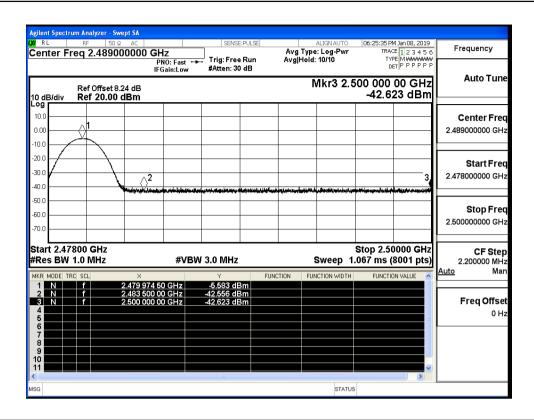
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



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)

