Appendix A

RF Test Data for BT 3.0(BDR/EDR) (Conducted Measurement)

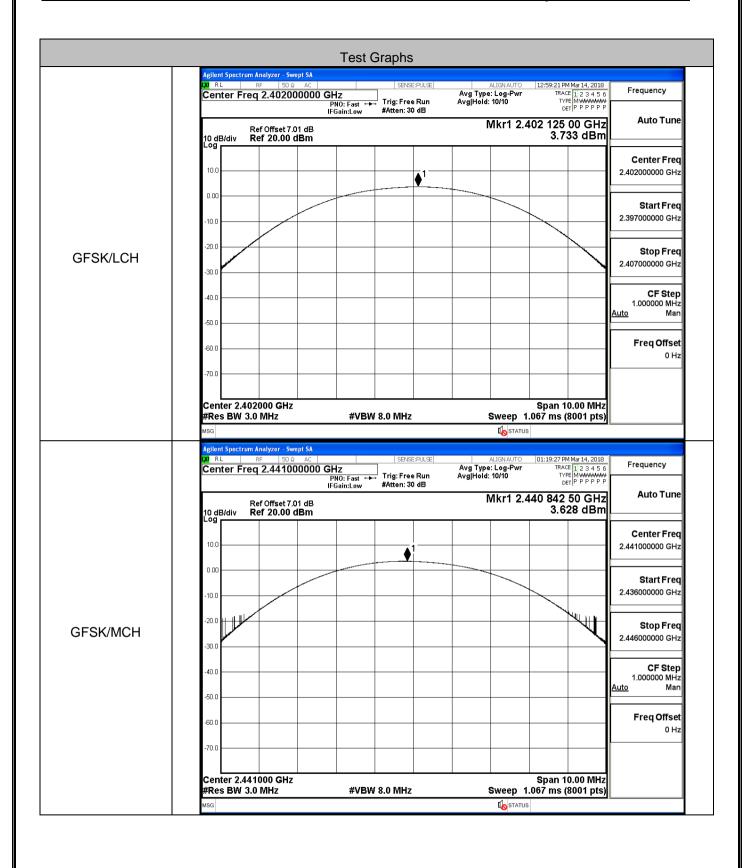
Product Name: Neckband wireless earphone Trade Mark: N/A **Test Model: NE03**

Environmental Conditions

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Temperature:	22.5 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jayden.zhuo
Supervised by:	Tom.Liu

A.1 Maxmum Conducted Peak Output Power

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	3.733	30	PASS
GFSK	MCH	3.628	30	PASS
	НСН	3.255	30	PASS
	LCH	3.514	21	PASS
π/4DQPSK	MCH	3.448	21	PASS
	HCH	3.755	21	PASS
	LCH	3.954	21	PASS
8DPSK	8DPSK MCH 3.987		21	PASS
	HCH	3.467	21	PASS



#VBW 8.0 MHz

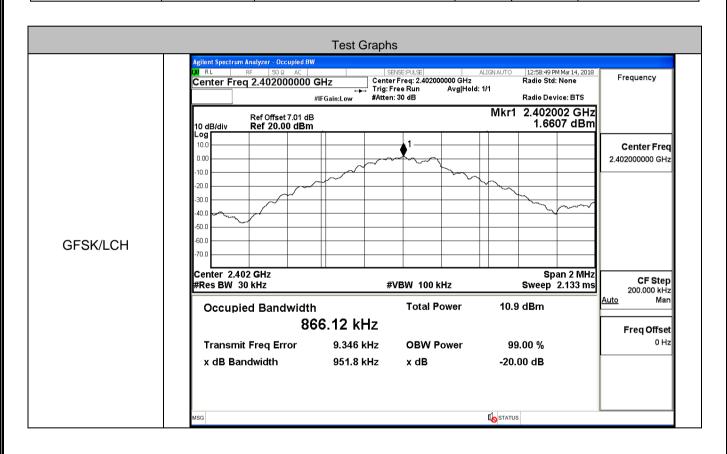
Span 10.00 MHz Sweep 1.067 ms (8001 pts)

STATUS

Center 2.480000 GHz #Res BW 3.0 MHz

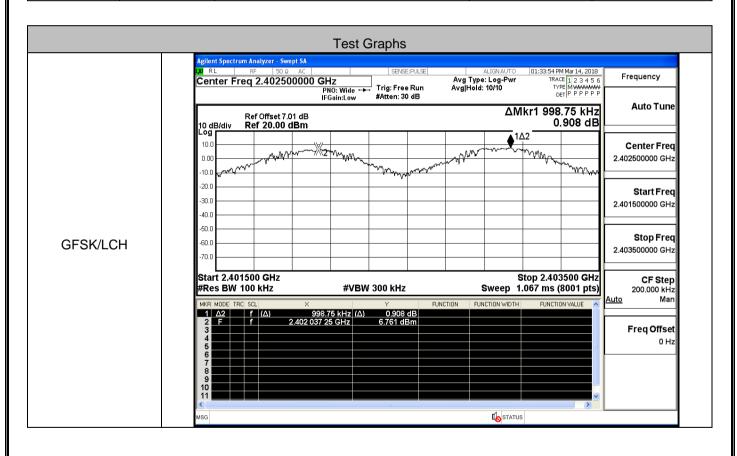
A.2 20dB Bandwidth

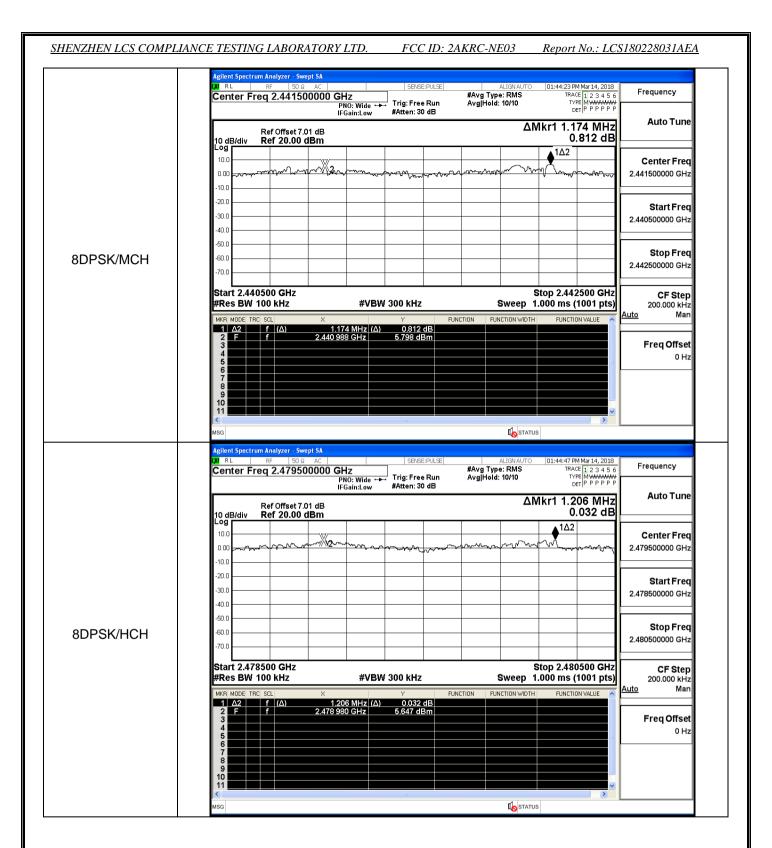
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	0.9518	Not Specified	PASS
GFSK	MCH	0.9509	Not Specified	PASS
	НСН	0.9508	Not Specified	PASS
π/4DQPSK	LCH	1.258	Not Specified	PASS
	MCH	1.231	Not Specified	PASS
	НСН	1.260	Not Specified	PASS
	LCH	1.263	Not Specified	PASS
8DPSK	MCH	1.255	Not Specified	PASS
	НСН	1.254	Not Specified	PASS



A.3 Carrier Frequency Separation

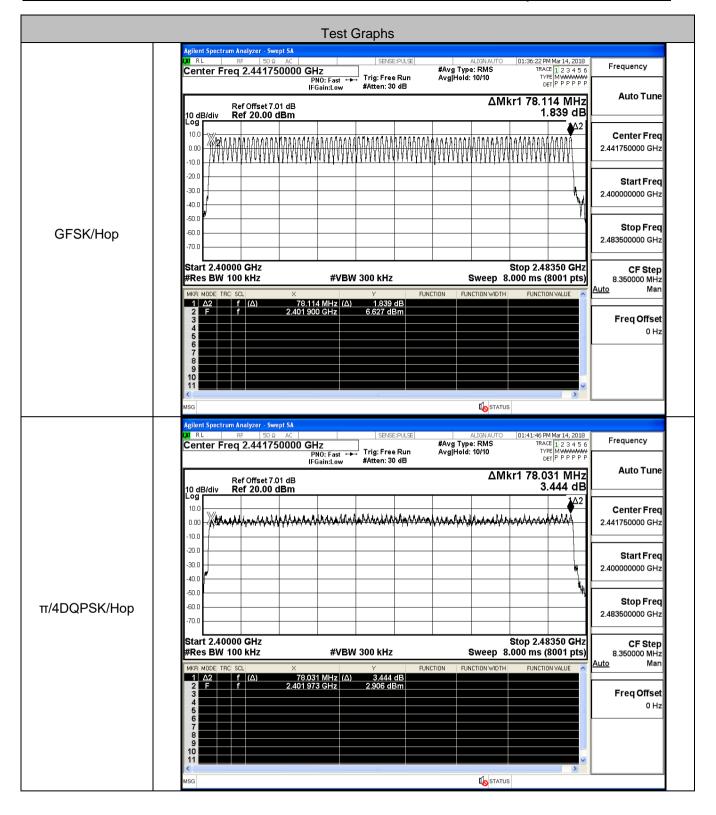
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	0.999	0.635	PASS
GFSK	MCH	0.984	0.635	PASS
	HCH	1.352	0.635	PASS
	LCH	1.018	0.840	PASS
π/4DQPSK	MCH	1.028	0.840	PASS
	НСН	1.164	0.840	PASS
8DPSK	LCH	0.916	0.842	PASS
	MCH	1.174	0.842	PASS
	НСН	1.206	0.842	PASS





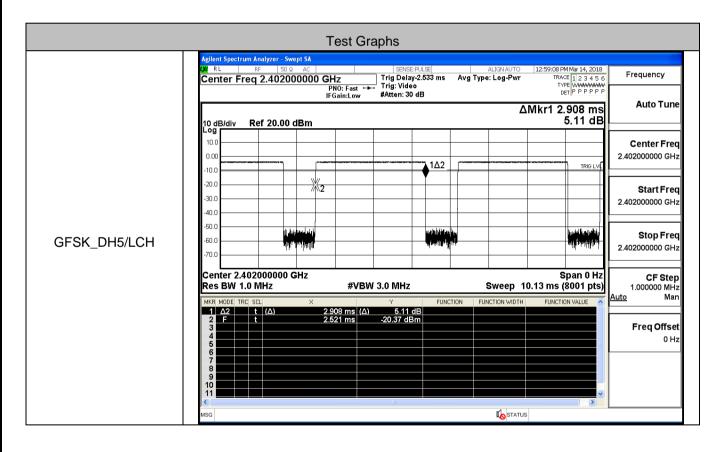
A.4 Hopping Channel Number

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



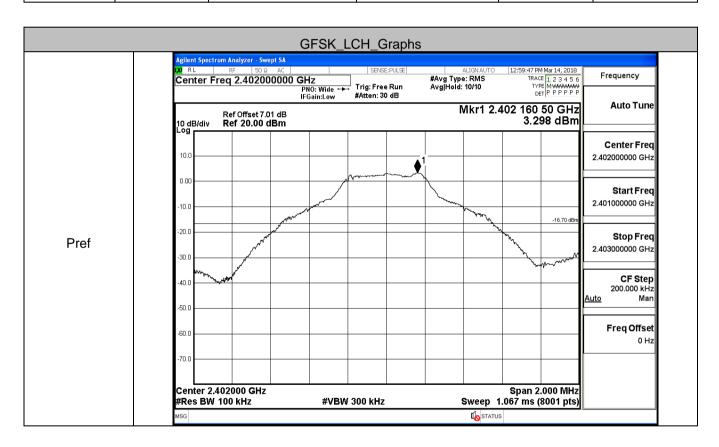
A.5 Dwell Time

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
	DH5	LCH	2.91	106.7	0.31	0.4	PASS
GFSK	DH5	MCH	2.91	106.7	0.31	0.4	PASS
	DH5	HCH	2.91	106.7	0.31	0.4	PASS
	2DH5	LCH	2.91	106.7	0.312	0.4	PASS
π/4DQPSK	2DH5	MCH	2.91	106.7	0.312	0.4	PASS
	2DH5	HCH	2.91	106.7	0.312	0.4	PASS
	3DH5	LCH	2.91	106.7	0.312	0.4	PASS
8DPSK	3DH5	MCH	2.91	106.7	0.312	0.4	PASS
	3DH5	HCH	2.91	106.7	0.312	0.4	PASS



A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	3.298	-44.937	-16.702	PASS
GFSK	MCH	6.467	-44.857	-13.533	PASS
	HCH	6.34	-44.283	-13.660	PASS
	LCH	-3.198	-45.669	-23.198	PASS
π/4DQPSK	MCH	6.498	-44.635	-13.502	PASS
	HCH	1.147	-45.461	-18.853	PASS
	LCH	1.548	-35.485	-18.452	PASS
8DPSK	MCH	1.158	-45.808	-18.842	PASS
	HCH	0.409	-45.173	-19.591	PASS



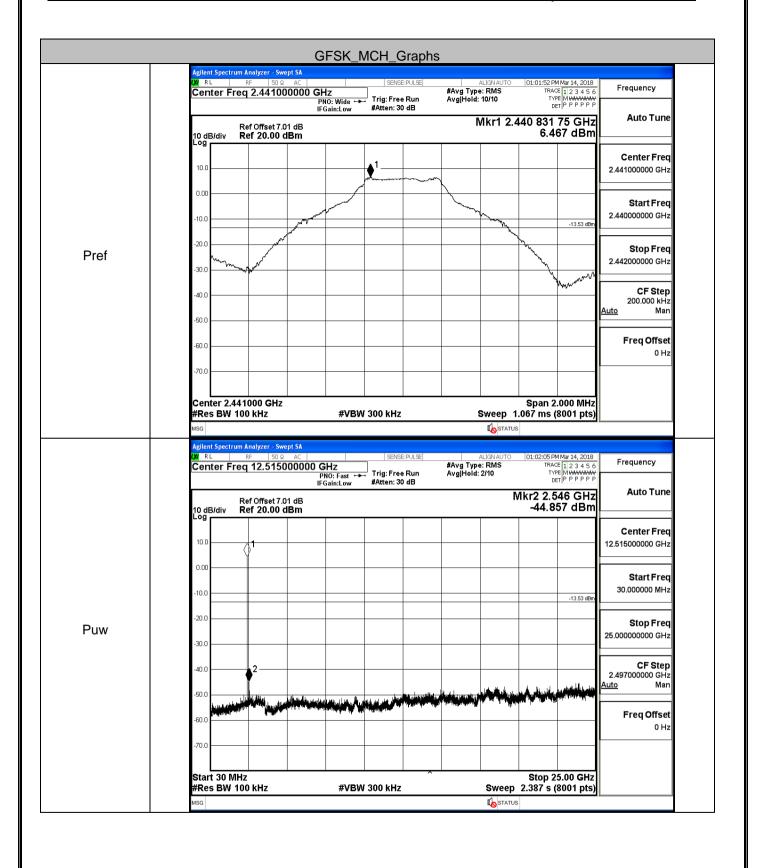
#VBW 300 kHz

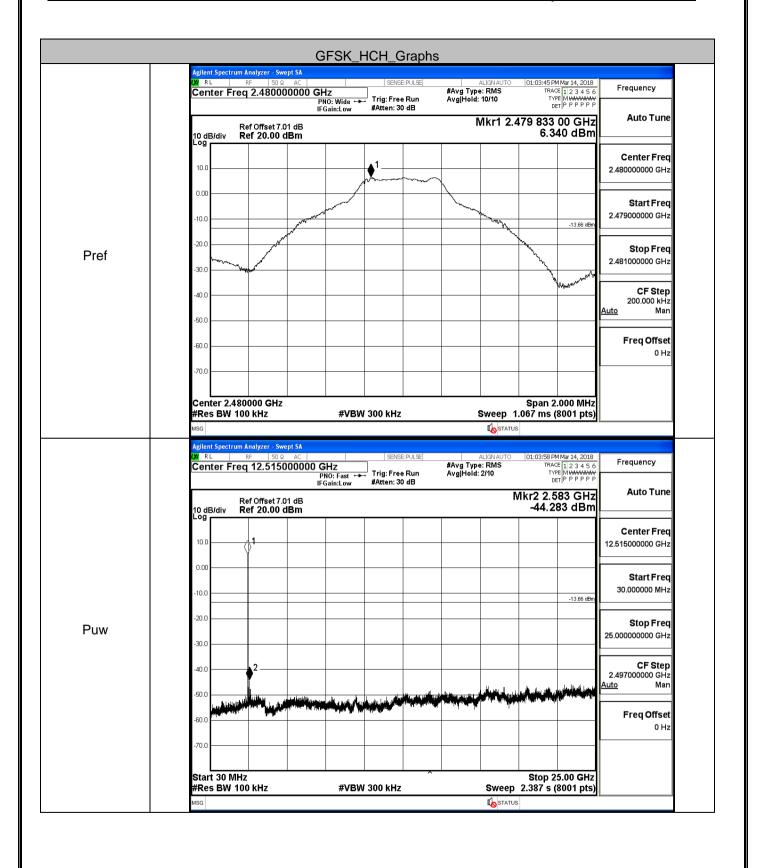
Stop 25.00 GHz Sweep 2.387 s (8001 pts)

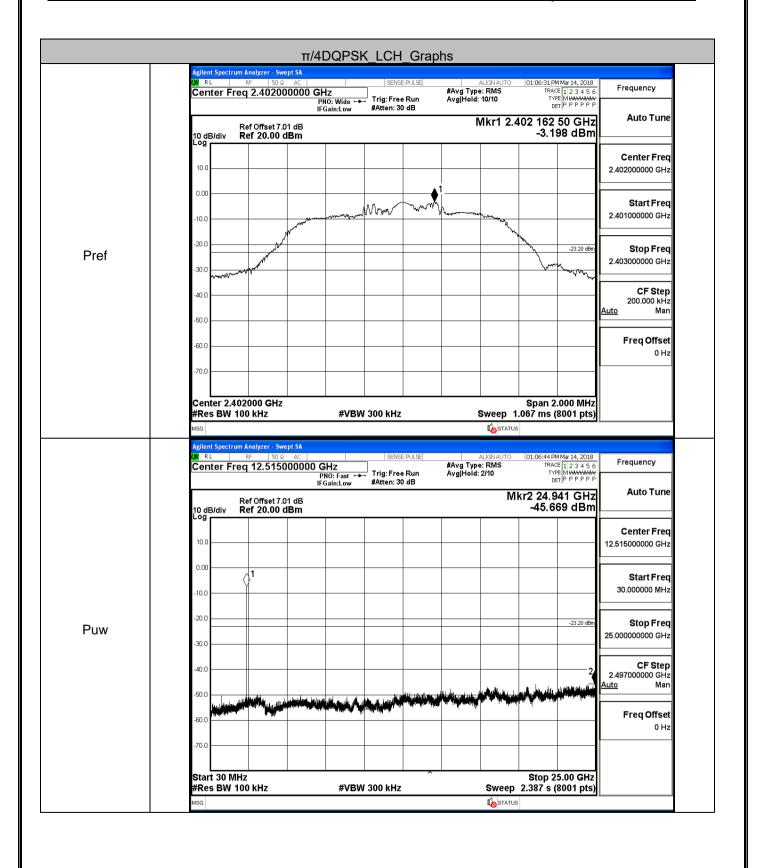
STATUS

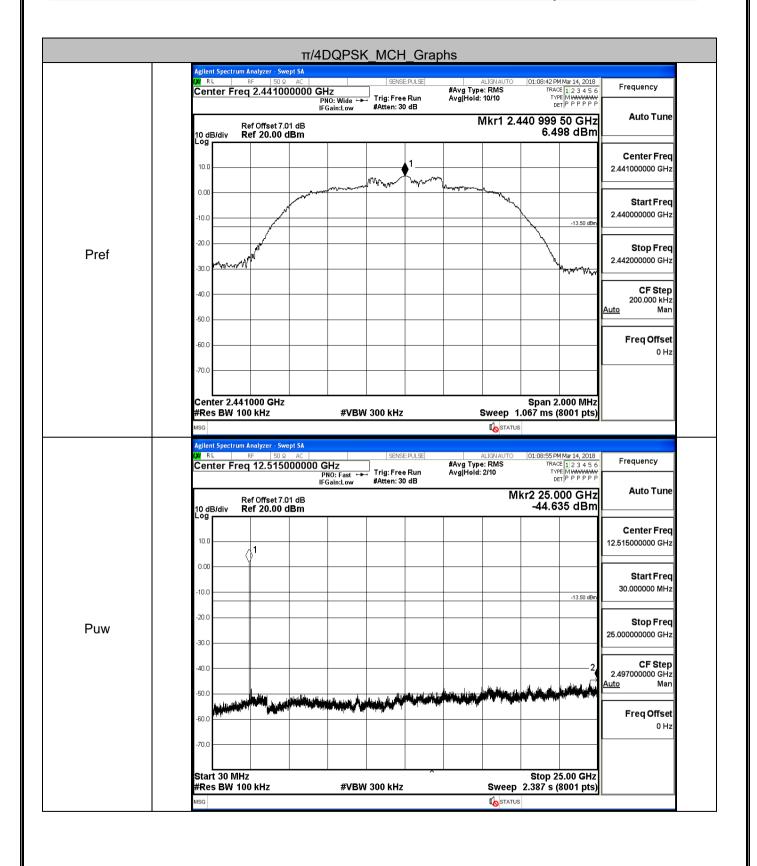
-70.0

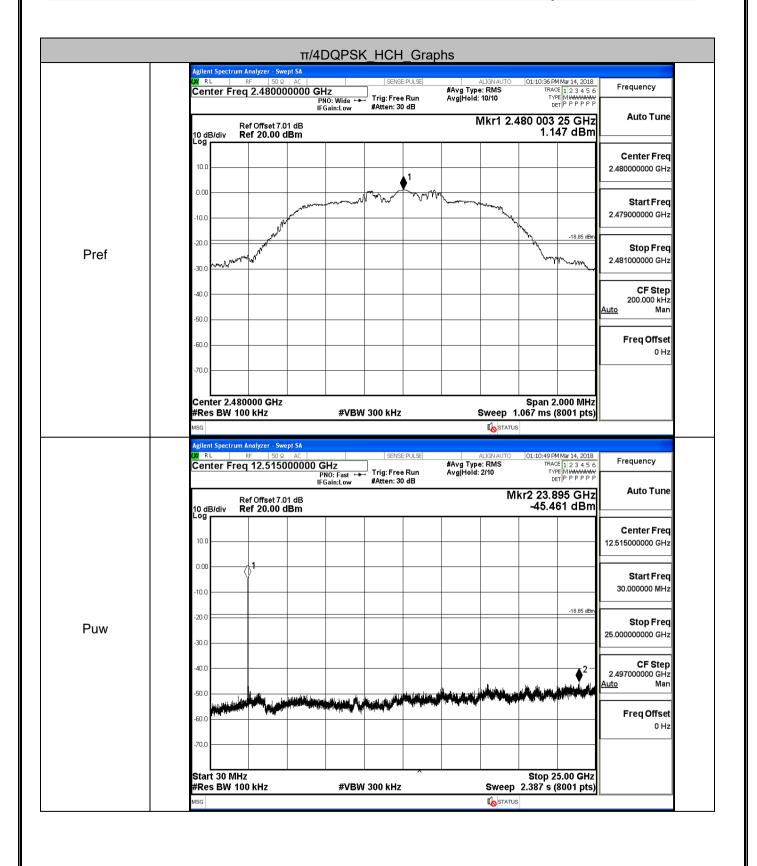
Start 30 MHz #Res BW 100 kHz

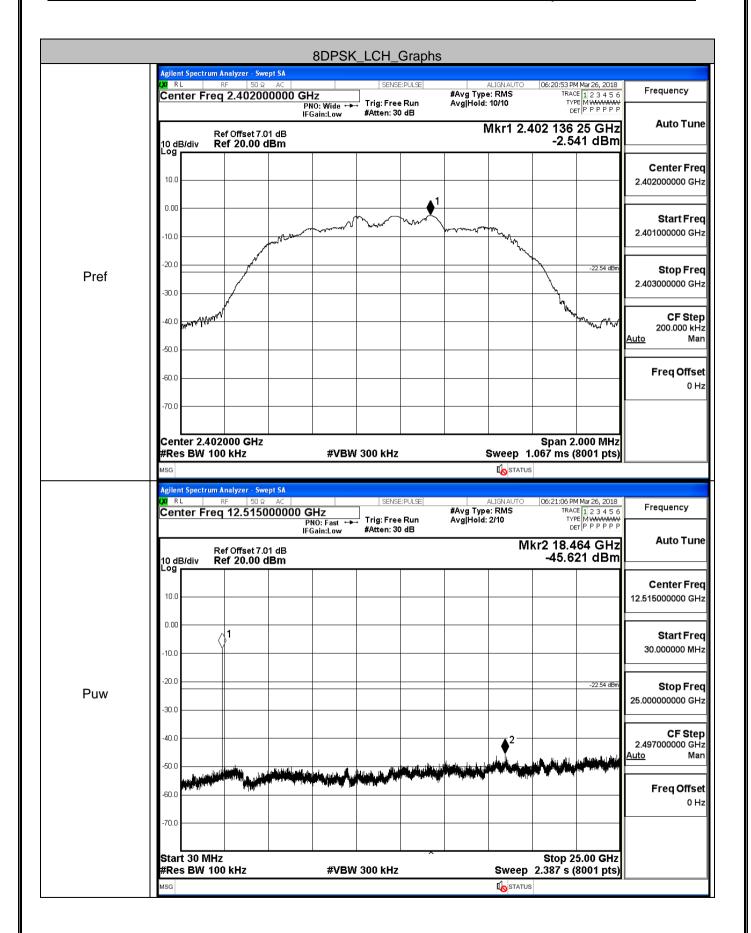


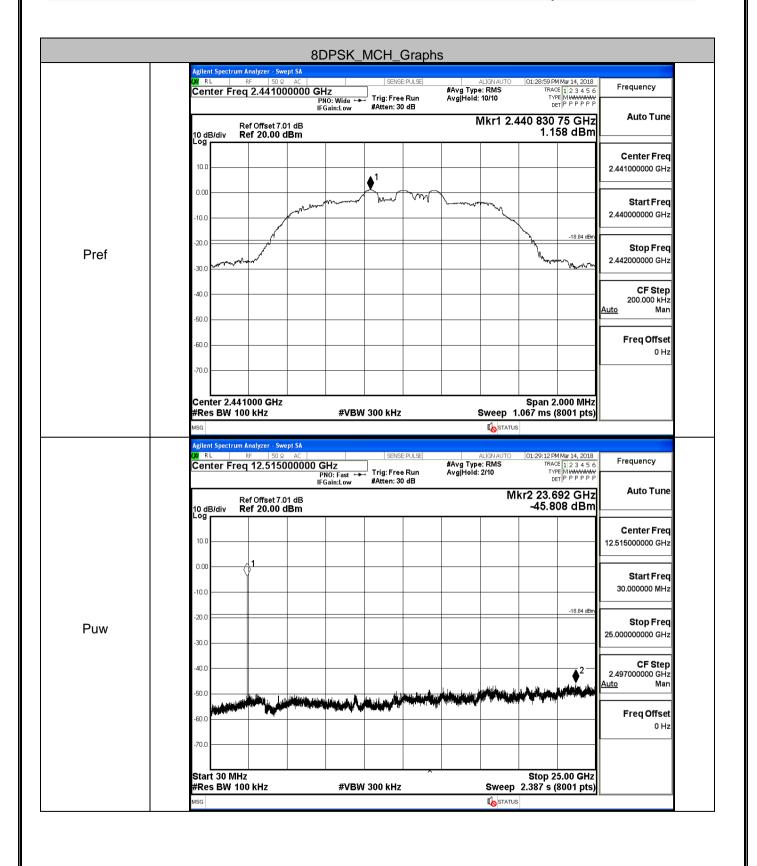


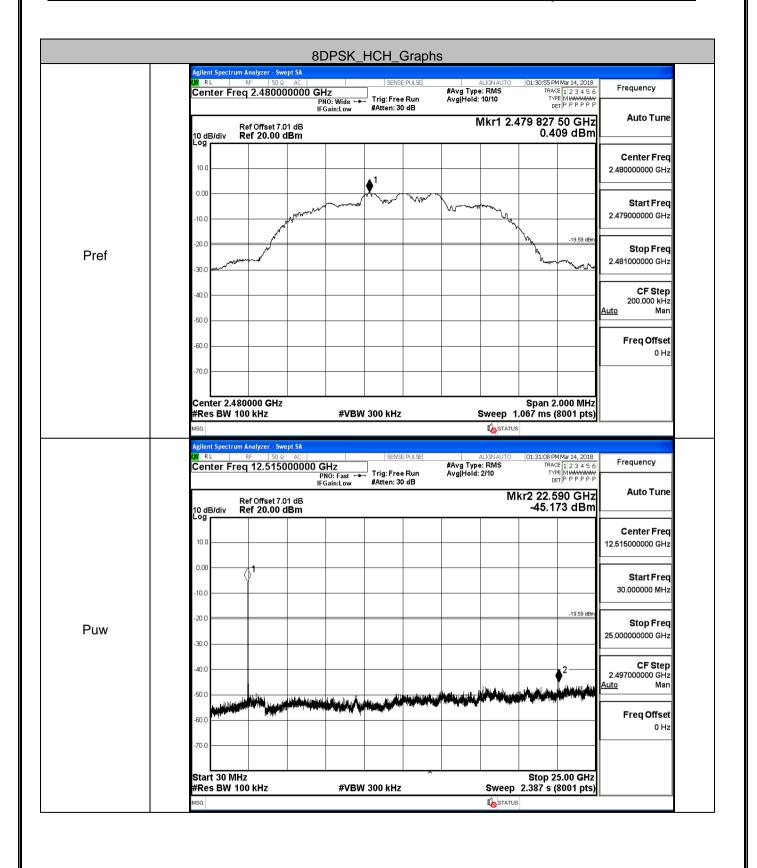






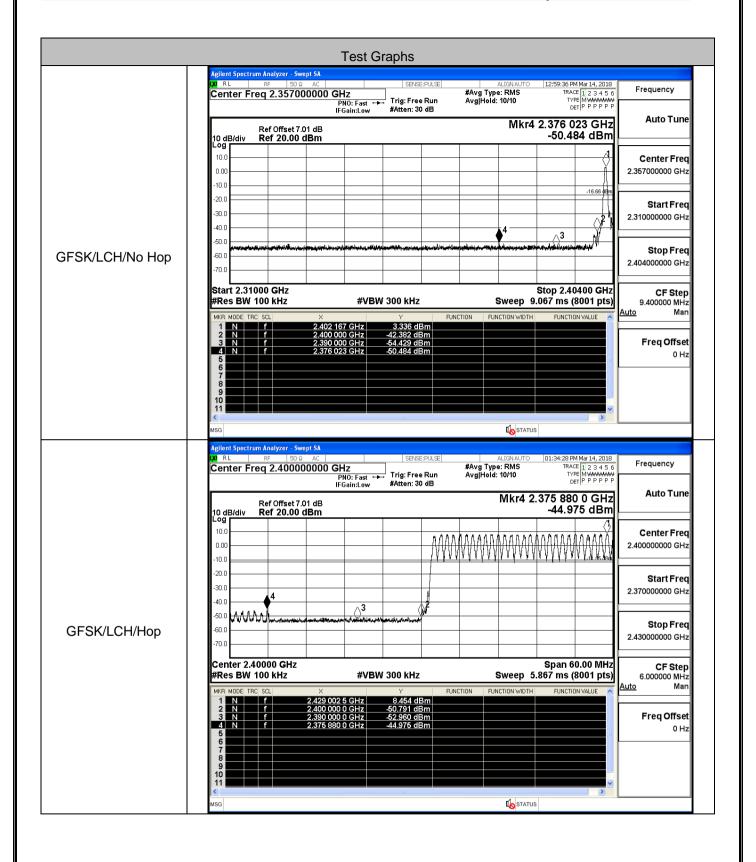






A.7 Band-edge for RF Conducted Emissions

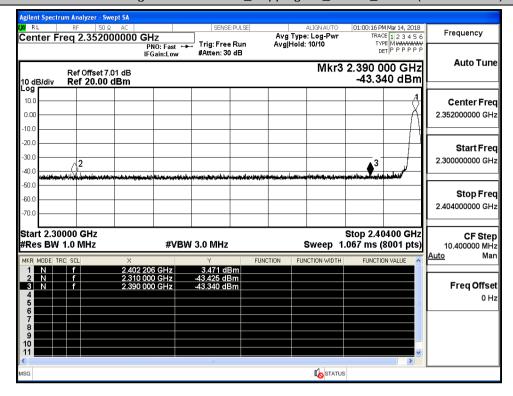
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
		0.400	3.336	Off	-50.484	-16.66	PASS
0501	LCH	2402	8.454	On	-44.975	-11.55	PASS
GFSK	НСН		6.512	Off	-51.100	-13.49	PASS
		2480	8.620	On	-48.771	-11.38	PASS
	LCH	2402	-3.173	Off	-50.765	-23.17	PASS
			6.162	On	-50.095	-13.84	PASS
π/4DQPSK	нсн	2480	1.231	Off	-50.814	-18.77	PASS
			6.587	On	-49.571	-13.41	PASS
			0.209	Off	-50.894	-19.79	PASS
	LCH	2402	6.365	On	-49.667	-13.64	PASS
8DPSK			0.445	Off	-51.076	-19.56	PASS
	HCH	2480	6.621	On	-48.465	-13.38	PASS



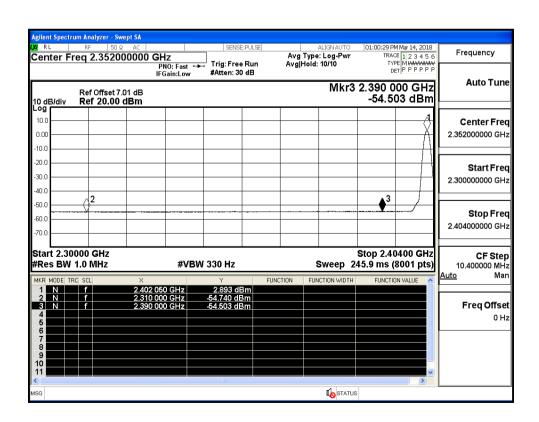
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-43.43	2.0	0	53.83	PEAK	74	PASS
	Off	2310.0	-54.74	2.0	0	42.52	AV	54	PASS
	Off	2390.0	-43.34	2.0	0	53.92	PEAK	74	PASS
2-21/	Off	2390.0	-54.50	2.0	0	42.75	AV	54	PASS
GFSK	Off	2483.5	-39.84	2.0	0	57.42	PEAK	74	PASS
	Off	2483.5	-50.59	2.0	0	46.67	AV	54	PASS
	Off	2500.0	-44.80	2.0	0	52.46	PEAK	74	PASS
	Off	2500.0	-54.10	2.0	0	43.16	AV	54	PASS
	Off	2310.0	-43.09	2.0	0	54.17	PEAK	74	PASS
	Off	2310.0	-54.76	2.0	0	42.50	AV	54	PASS
	Off	2390.0	-44.83	2.0	0	52.42	PEAK	74	PASS
	Off	2390.0	-54.55	2.0	0	42.71	AV	54	PASS
π/4DQPSK	Off	2483.5	-40.22	2.0	0	57.03	PEAK	74	PASS
	Off	2483.5	-52.96	2.0	0	44.30	AV	54	PASS
	Off	2500.0	-43.52	2.0	0	53.74	PEAK	74	PASS
	Off	2500.0	-54.21	2.0	0	43.05	AV	54	PASS
	Off	2310.0	-44.63	2.0	0	52.62	PEAK	74	PASS
	Off	2310.0	-54.79	2.0	0	42.47	AV	54	PASS
	Off	2390.0	-44.90	2.0	0	52.35	PEAK	74	PASS
	Off	2390.0	-54.52	2.0	0	42.73	AV	54	PASS
8DPSK	Off	2483.5	-41.70	2.0	0	55.55	PEAK	74	PASS
	Off	2483.5	-52.87	2.0	0	44.39	AV	54	PASS
	Off	2500.0	-44.86	2.0	0	52.40	PEAK	74	PASS
	Off	2500.0	-54.16	2.0	0	43.10	AV	54	PASS

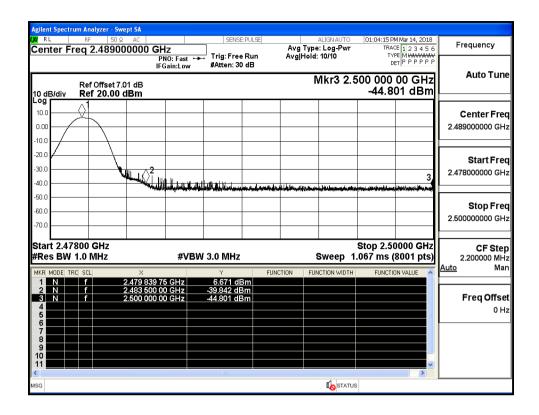
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (Low Channel)



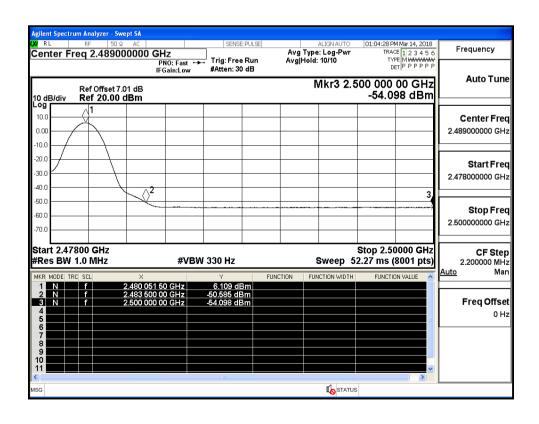
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



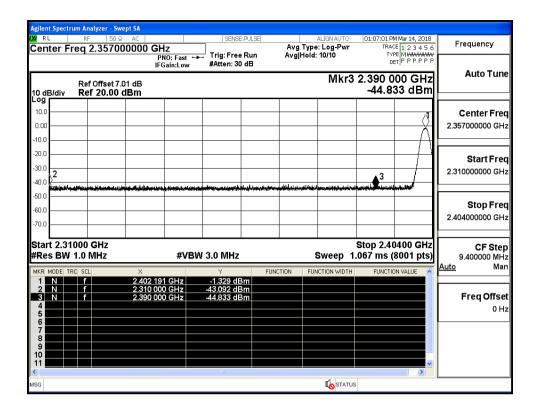
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



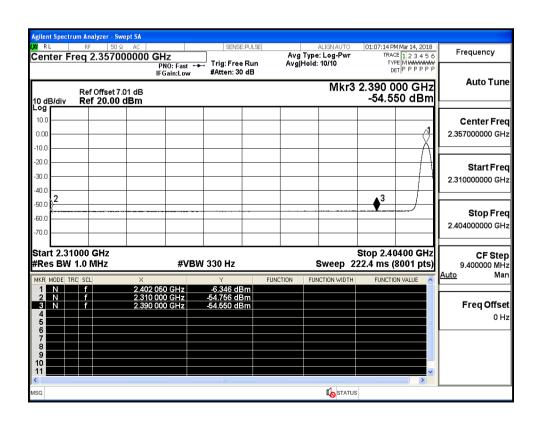
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



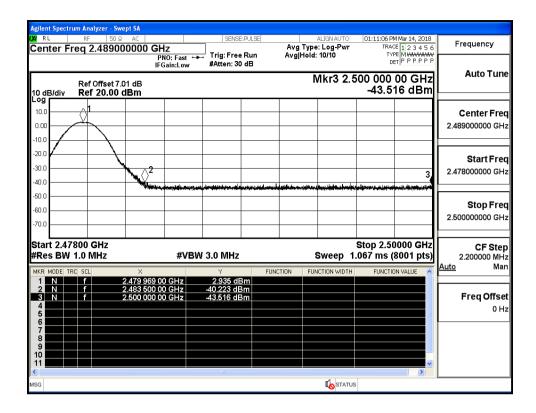
Restrict-band band-edge measurements_Hopping Off π/4-DQPSK_PEAK (Low Channel)



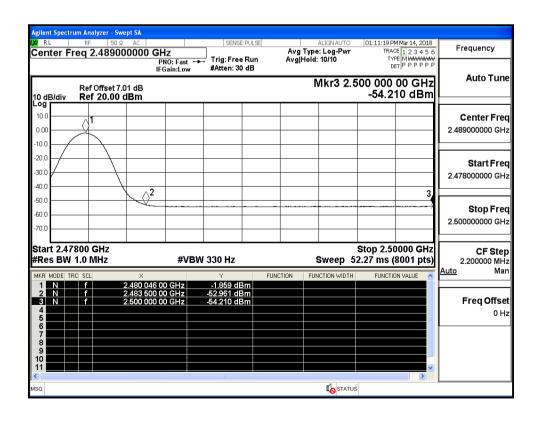
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



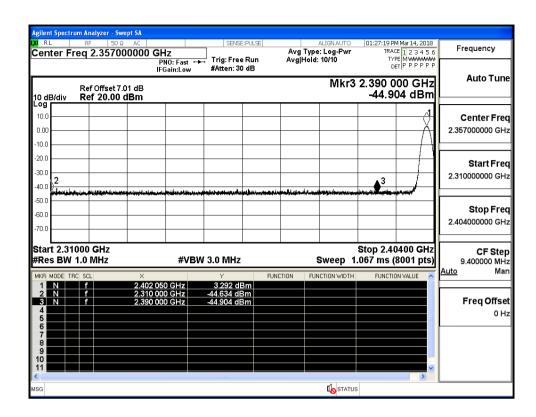
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



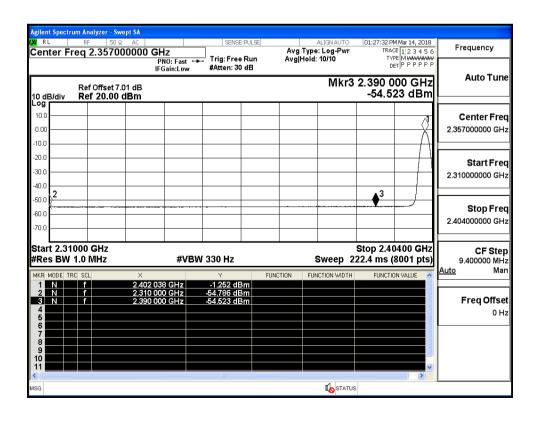
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



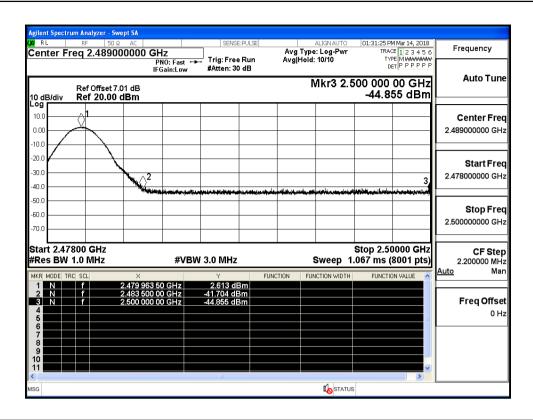
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



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)

