# Appendix A

# RF Test Data for BT V4.1(BDR/EDR) (Conducted Measurement)

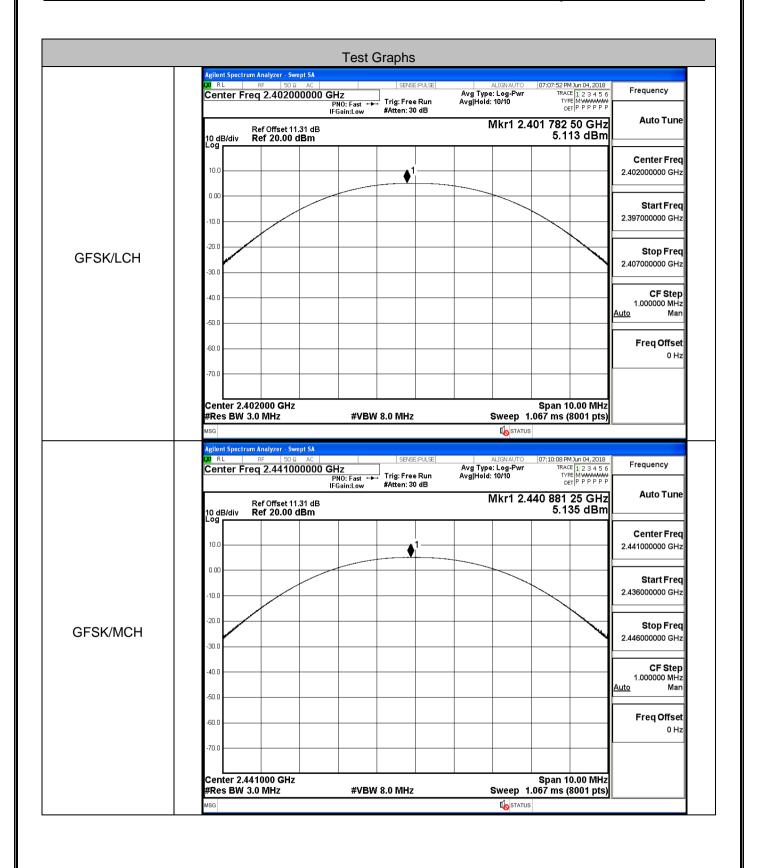
Product Name: t-Four Trade Mark: N/A Test Model: T00215

#### **Environmental Conditions**

Temperature:	22.3 ° C
Relative Humidity:	53.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Wilson Hong
Supervised by:	Jayden.Zhuo

### A.1 Maxmum Conducted Peak Output Power

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	5.113	30	PASS
GFSK	MCH	5.135	30	PASS
	НСН	5.317	30	PASS
	LCH	4.947	21	PASS
π/4DQPSK	MCH	5.024	21	PASS
	НСН	5.238	21	PASS
	LCH	5.108	21	PASS
8DPSK	8DPSK MCH 5.22		21	PASS
	НСН	5.415	21	PASS



**#VBW 8.0 MHz** 

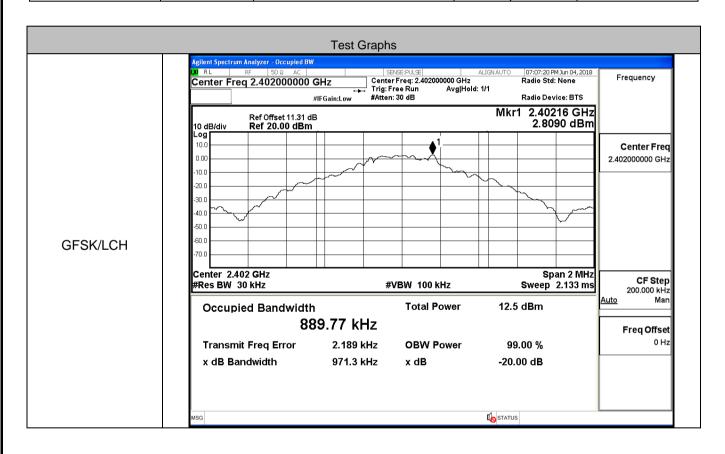
Span 10.00 MHz Sweep 1.067 ms (8001 pts)

STATUS

Center 2.480000 GHz #Res BW 3.0 MHz

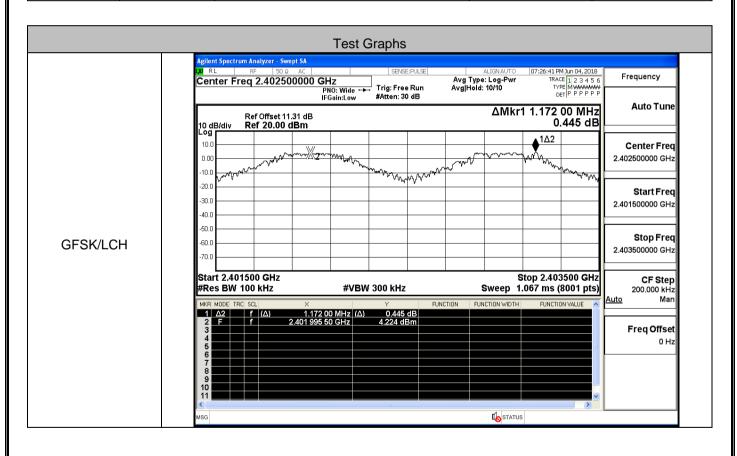
#### A.2 20dB Bandwidth

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	0.9713	Not Specified	PASS
GFSK	MCH	1.024	Not Specified	PASS
	HCH	0.9668	Not Specified	PASS
	LCH	1.290	Not Specified	PASS
π/4DQPSK	MCH	1.287	Not Specified	PASS
	HCH	1.286	Not Specified	PASS
	LCH	1.293	Not Specified	PASS
8DPSK	MCH	1.291	Not Specified	PASS
	HCH	1.289	Not Specified	PASS



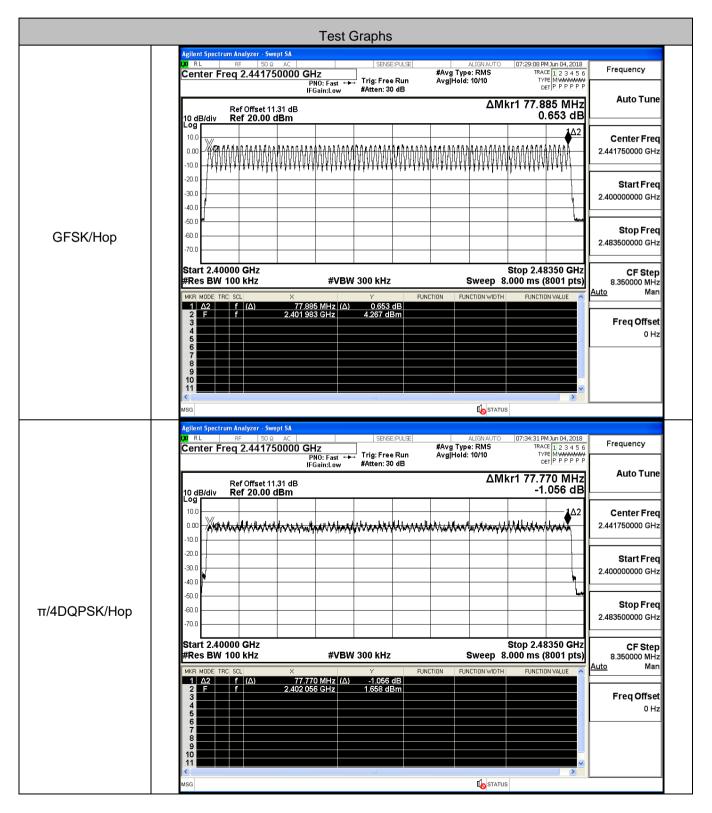
### **A.3 Carrier Frequency Separation**

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	1.172	0.683	PASS
GFSK	MCH	0.824	0.683	PASS
	HCH	1.120	0.683	PASS
	LCH	1.008	0.860	PASS
π/4DQPSK	MCH	0.972	0.860	PASS
	НСН	1.148	0.860	PASS
	LCH	1.270	0.862	PASS
8DPSK	MCH	0.922	0.862	PASS
	HCH	1.248	0.862	PASS



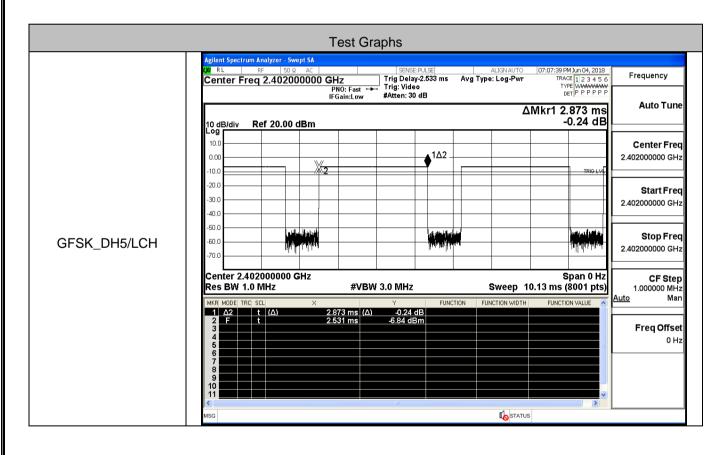
#### A.4 Hopping Channel Number

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



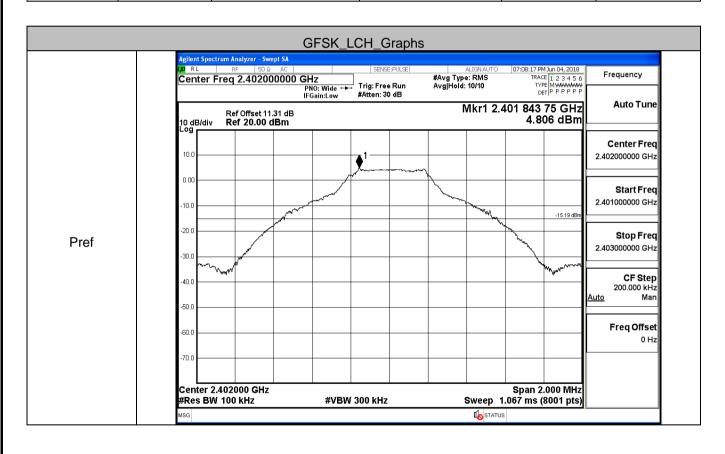
#### A.5 Dwell Time

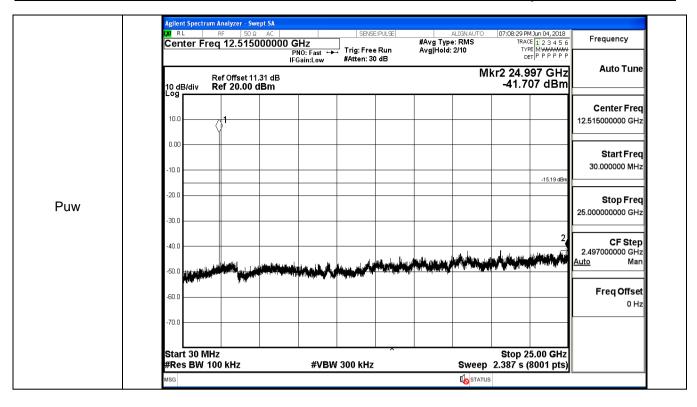
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
	DH5	LCH	2.87	106.7	0.306	0.4	PASS
GFSK	DH5	MCH	2.87	106.7	0.306	0.4	PASS
	DH5	HCH	2.87	106.7	0.306	0.4	PASS
	2DH5	LCH	2.87	106.7	0.307	0.4	PASS
π/4DQPSK	2DH5	MCH	2.87	106.7	0.307	0.4	PASS
	2DH5	HCH	2.87	106.7	0.307	0.4	PASS
	3DH5	LCH	2.87	106.7	0.307	0.4	PASS
8DPSK	3DH5	MCH	2.87	106.7	0.307	0.4	PASS
	3DH5	HCH	2.87	106.7	0.307	0.4	PASS

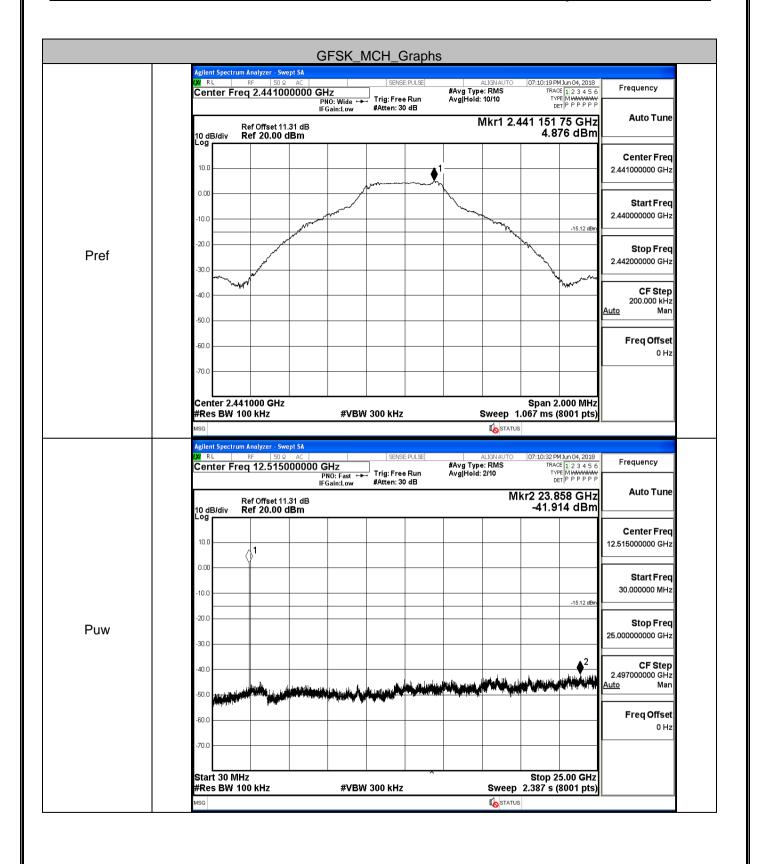


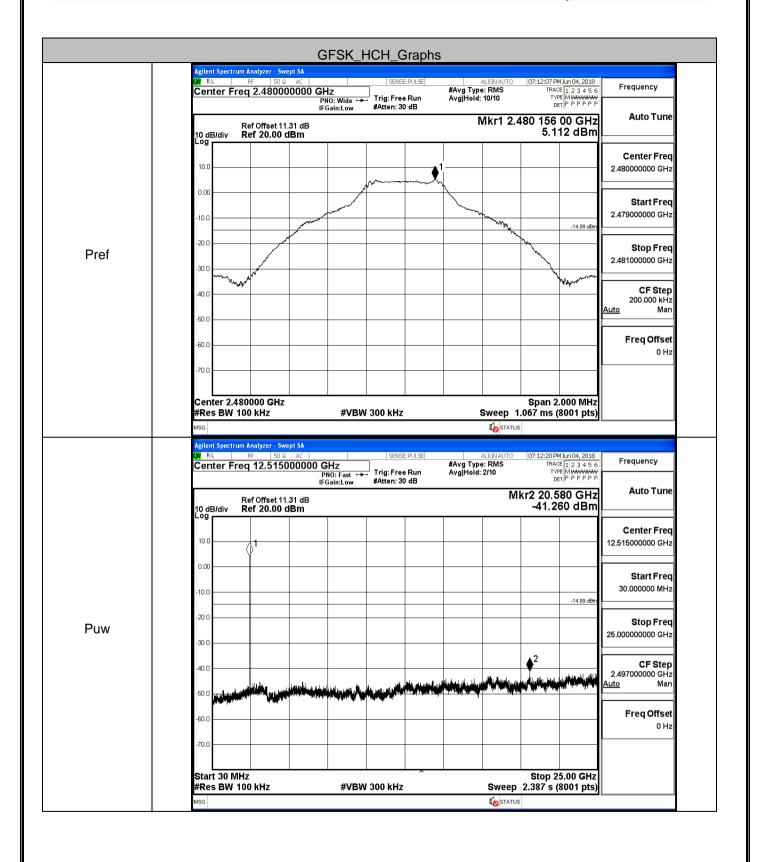
#### A.6 RF Conducted Spurious Emissions

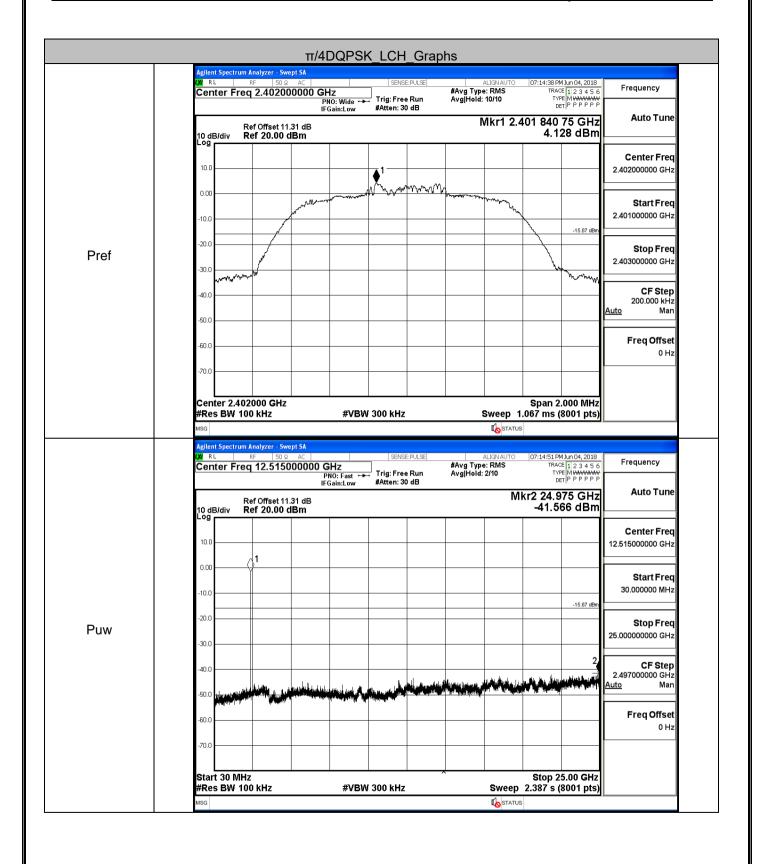
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	4.806	-41.707	-15.194	PASS
GFSK	MCH	4.876	-41.914	-15.124	PASS
	HCH	5.112	-41.260	-14.888	PASS
	LCH	4.128	-41.566	-15.872	PASS
π/4DQPSK	MCH	3.781	-41.284	-16.219	PASS
	НСН	4.225	-41.323	-15.775	PASS
	LCH	3.744	-41.864	-16.256	PASS
8DPSK	MCH	3.757	-41.929	-16.243	PASS
	HCH	4.278	-41.139	-15.722	PASS

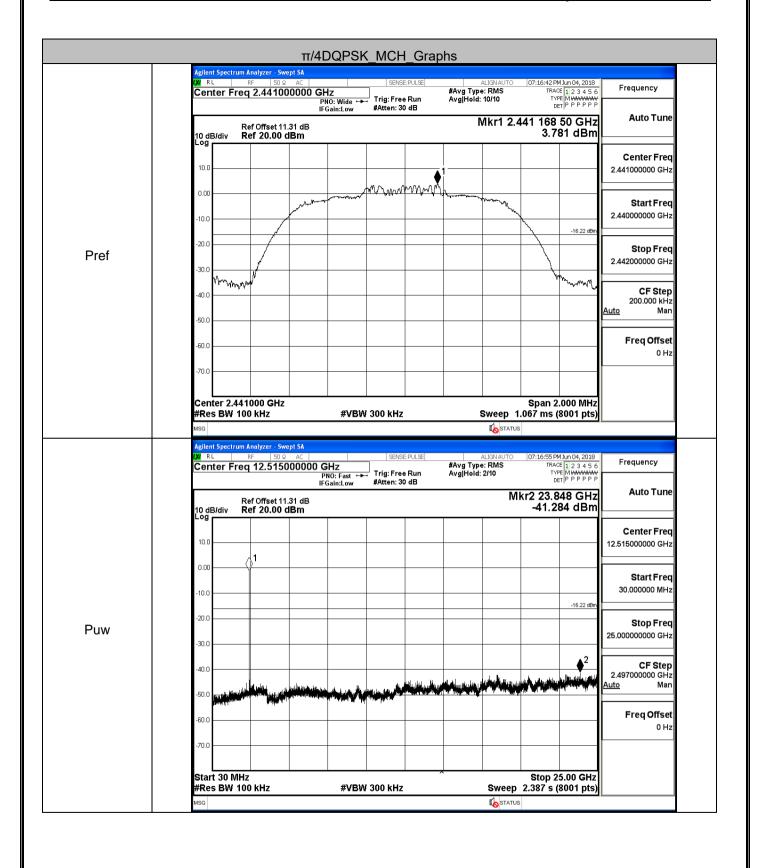


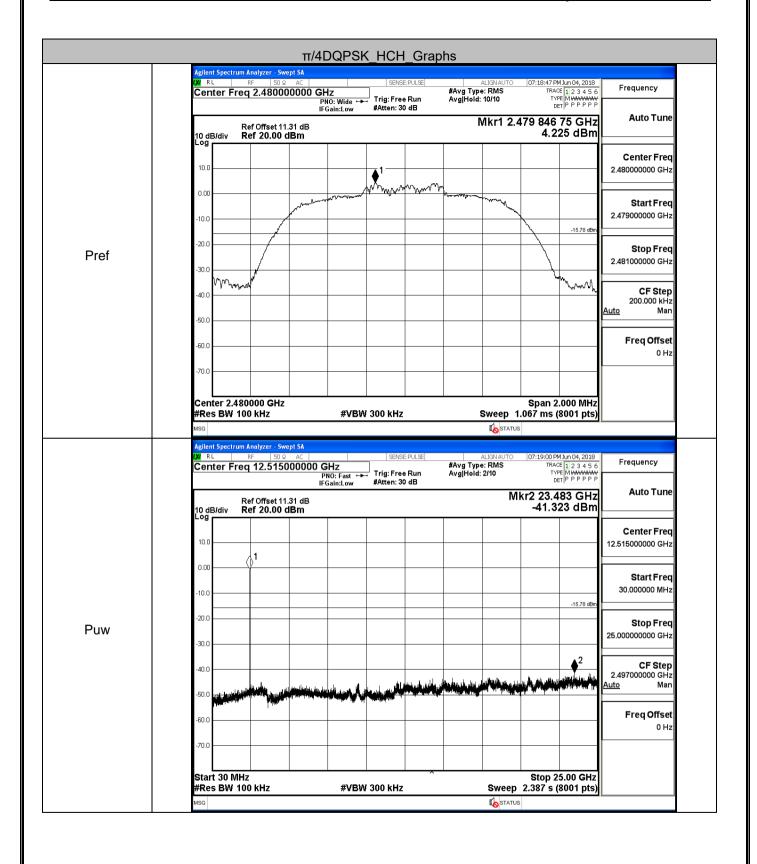


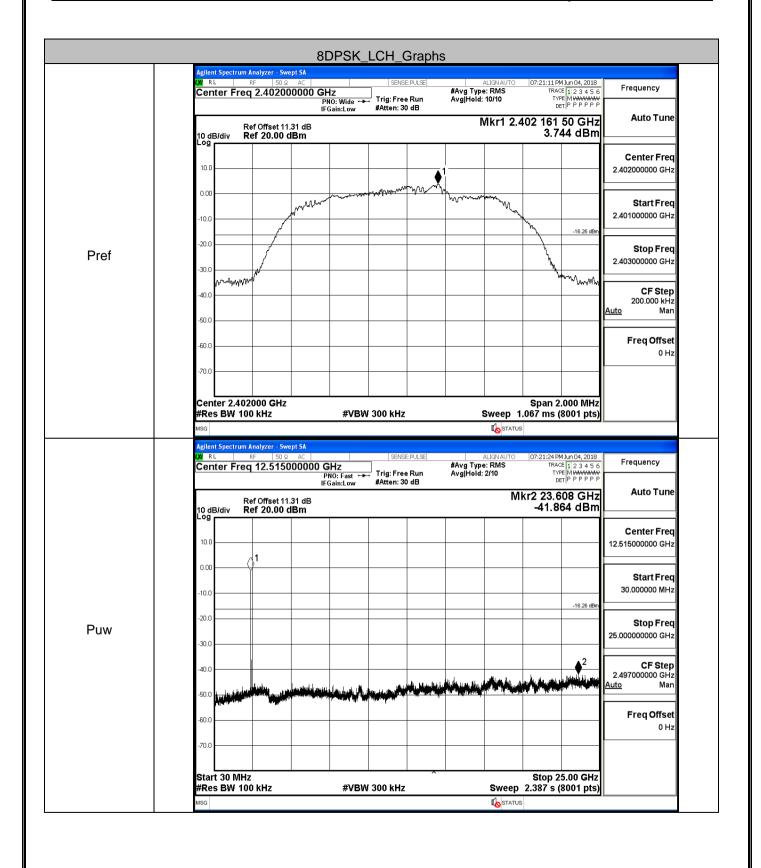


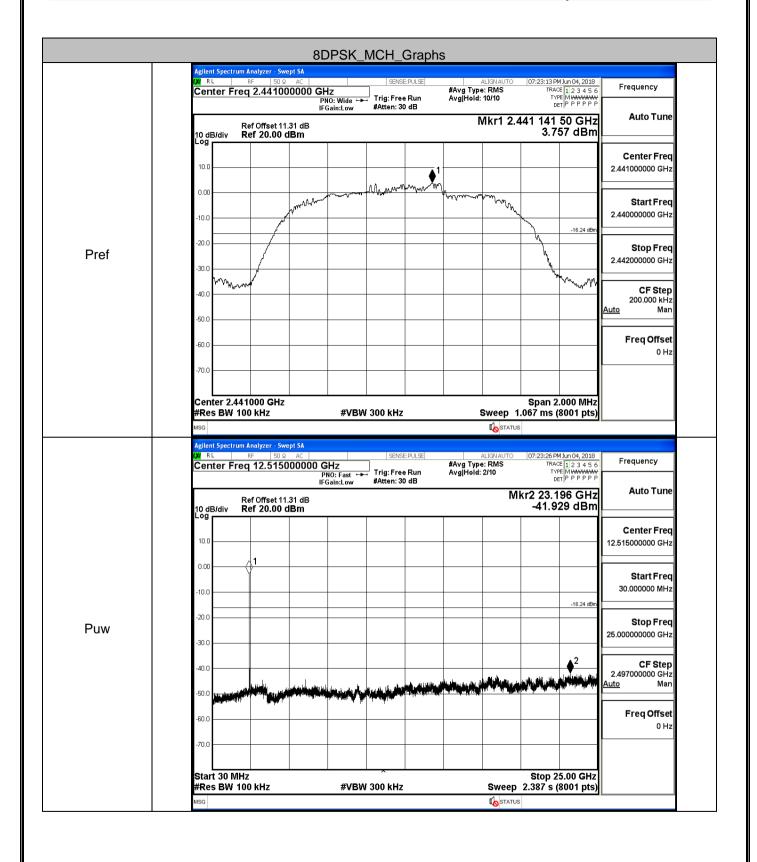


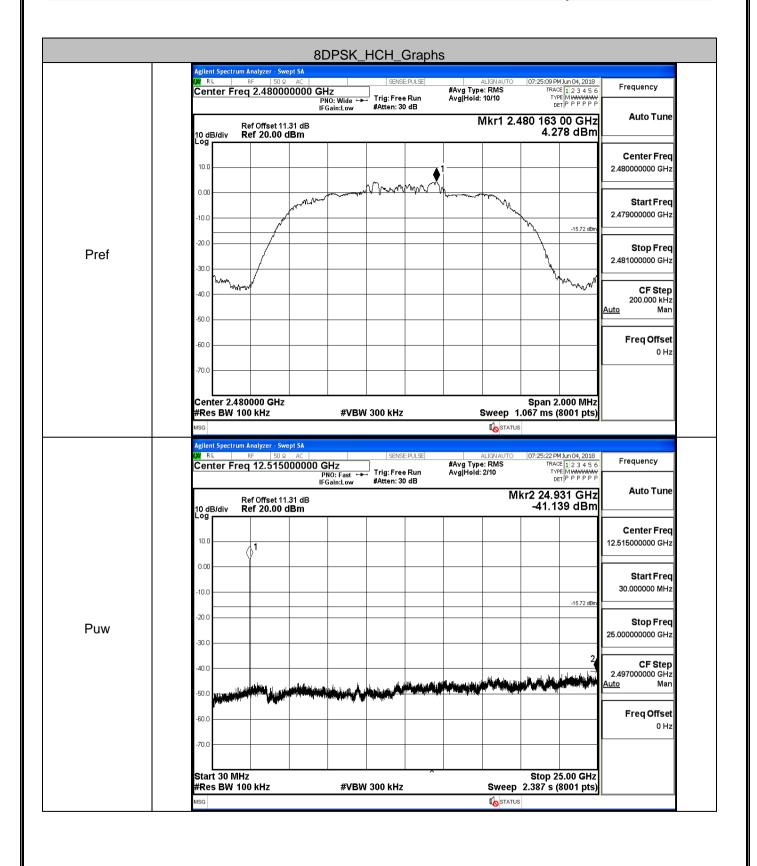






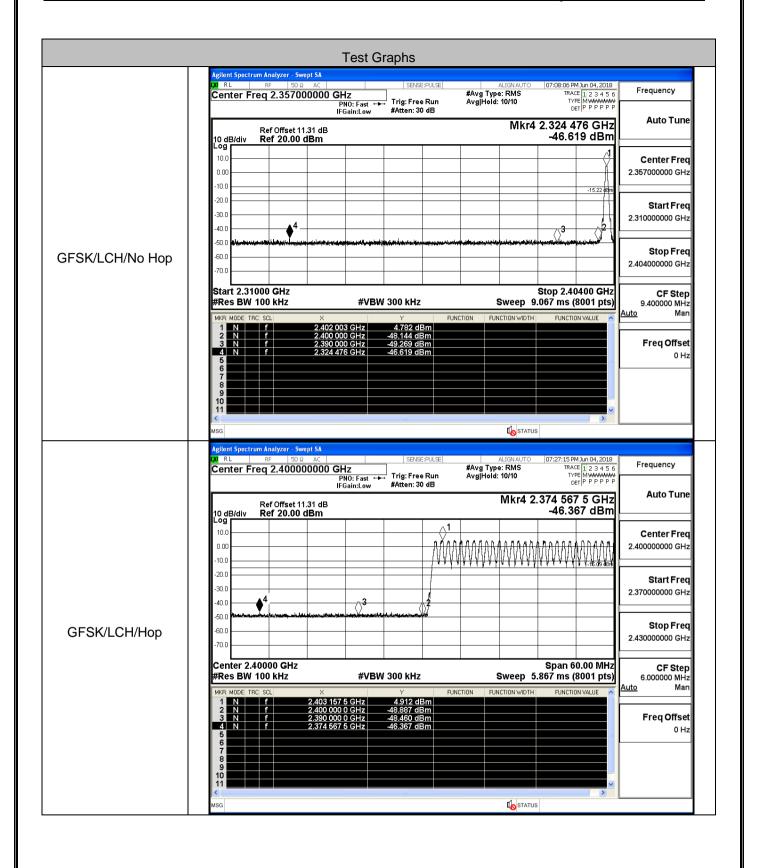






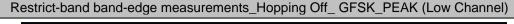
## A.7 Band-edge for RF Conducted Emissions

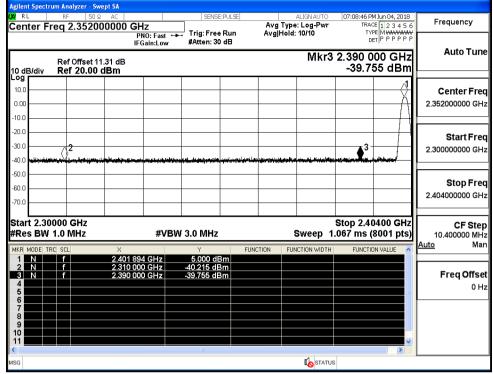
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict	
		0.400	4.782	Off	-46.619	-15.22	PASS	
	LCH	2402	4.912	On	-46.367	-15.09	PASS	
GFSK	нсн		5.108	Off	-46.710	-14.89	PASS	
		2480	4.870	On	-46.763	-15.13	PASS	
	LCH			4.111	Off	-47.070	-15.89	PASS
		2402	3.904	On	-46.555	-16.1	PASS	
π/4DQPSK	НСН	H 2480	4.245	Off	-46.562	-15.76	PASS	
			4.220	On	-46.017	-15.78	PASS	
		LCH 2402	1.417	Off	-46.333	-18.58	PASS	
8DPSK	LCH		4.024	On	-46.651	-15.98	PASS	
			4.330	Off	-46.611	-15.67	PASS	
	HCH	2480	4.138	On	-45.895	-15.86	PASS	



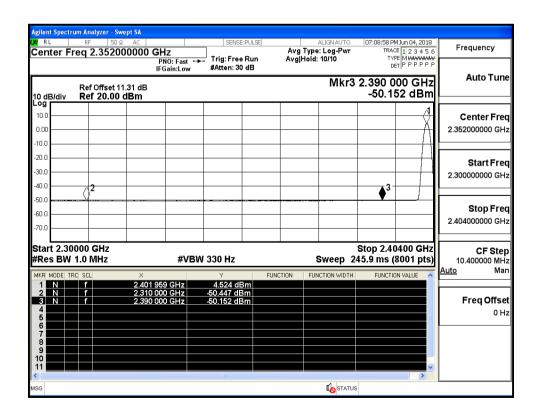
## A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-40.22	2.0	0	55.04	PEAK	74	PASS
	Off	2310.0	-50.45	2.0	0	44.81	AV	54	PASS
	Off	2390.0	-39.76	2.0	0	55.50	PEAK	74	PASS
2-21/	Off	2390.0	-50.15	2.0	0	45.11	AV	54	PASS
GFSK	Off	2483.5	-39.14	2.0	0	56.11	PEAK	74	PASS
	Off	2483.5	-49.95	2.0	0	45.31	AV	54	PASS
	Off	2500.0	-38.67	2.0	0	56.59	PEAK	74	PASS
	Off	2500.0	-49.88	2.0	0	45.38	AV	54	PASS
	Off	2310.0	-38.59	2.0	0	56.67	PEAK	74	PASS
	Off	2310.0	-50.40	2.0	0	44.86	AV	54	PASS
	Off	2390.0	-39.55	2.0	0	55.71	PEAK	74	PASS
///	Off	2390.0	-50.25	2.0	0	45.01	AV	54	PASS
π/4DQPSK	Off	2483.5	-39.95	2.0	0	55.30	PEAK	74	PASS
	Off	2483.5	-49.80	2.0	0	45.46	AV	54	PASS
	Off	2500.0	-39.61	2.0	0	55.65	PEAK	74	PASS
	Off	2500.0	-49.84	2.0	0	45.42	AV	54	PASS
	Off	2310.0	-39.56	2.0	0	55.69	PEAK	74	PASS
	Off	2310.0	-50.46	2.0	0	44.80	AV	54	PASS
	Off	2390.0	-39.25	2.0	0	56.01	PEAK	74	PASS
	Off	2390.0	-50.28	2.0	0	44.97	AV	54	PASS
8DPSK	Off	2483.5	-39.42	2.0	0	55.84	PEAK	74	PASS
	Off	2483.5	-49.85	2.0	0	45.41	AV	54	PASS
	Off	2500.0	-39.92	2.0	0	55.34	PEAK	74	PASS
	Off	2500.0	-49.82	2.0	0	45.44	AV	54	PASS

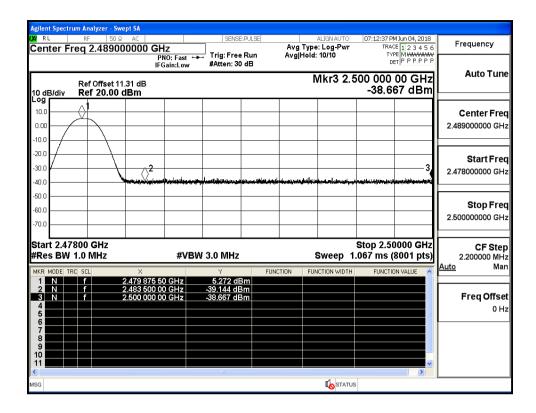




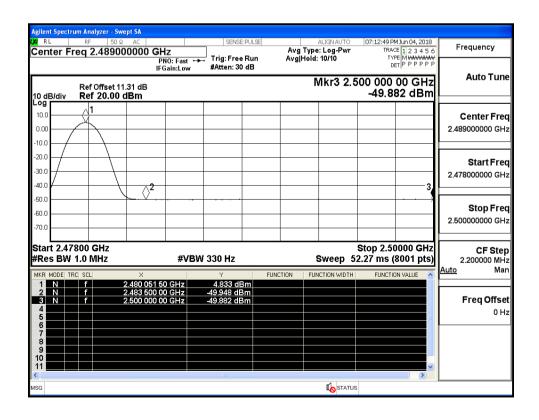
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (Low Channel)



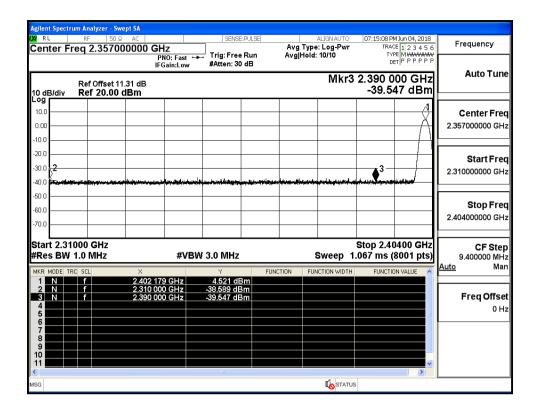
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_PEAK (High Channel)



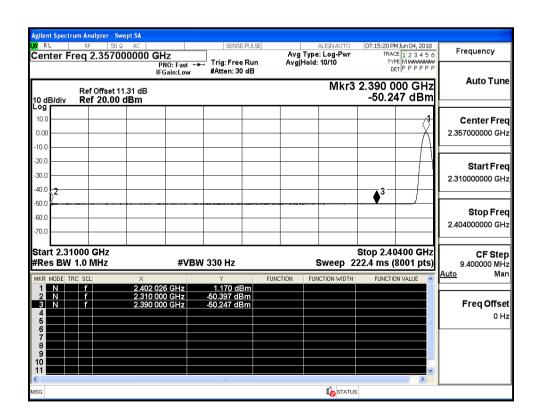
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (High Channel)



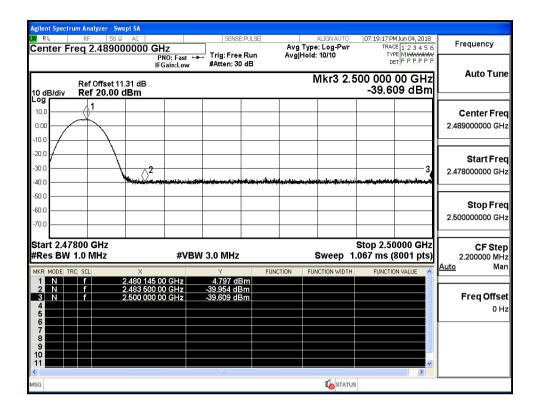
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (Low Channel)



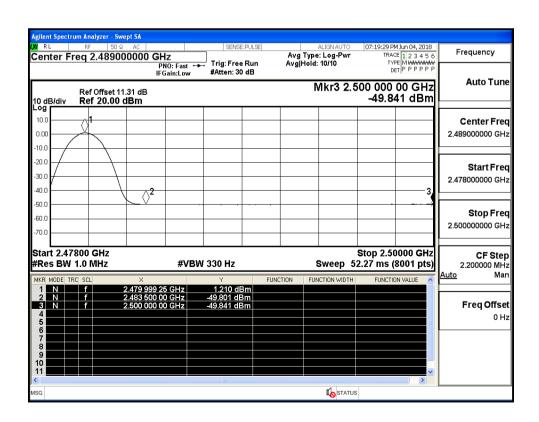
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (Low Channel)



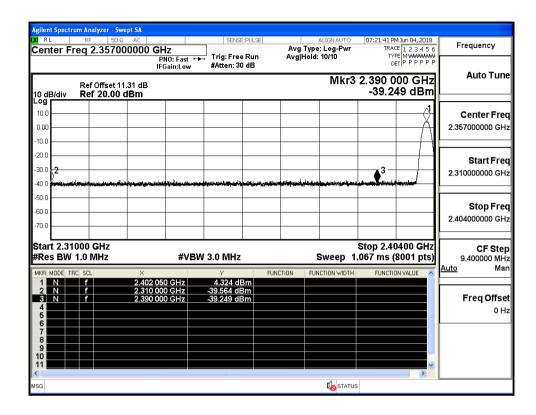
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (High Channel)



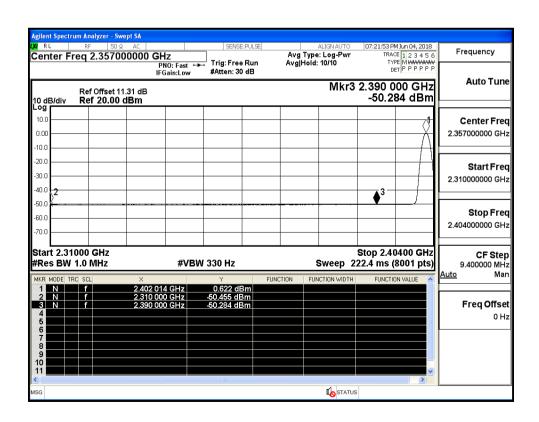
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (High Channel)



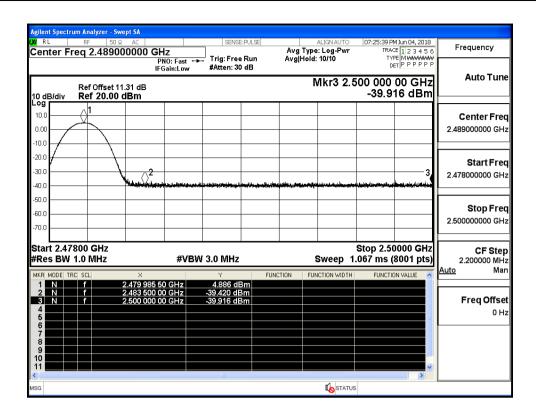
#### Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_PEAK (Low Channel)



#### 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)

