## **Appendix A**

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

Product Name: 4G Mobile phone Trade Mark: NYX Mobile

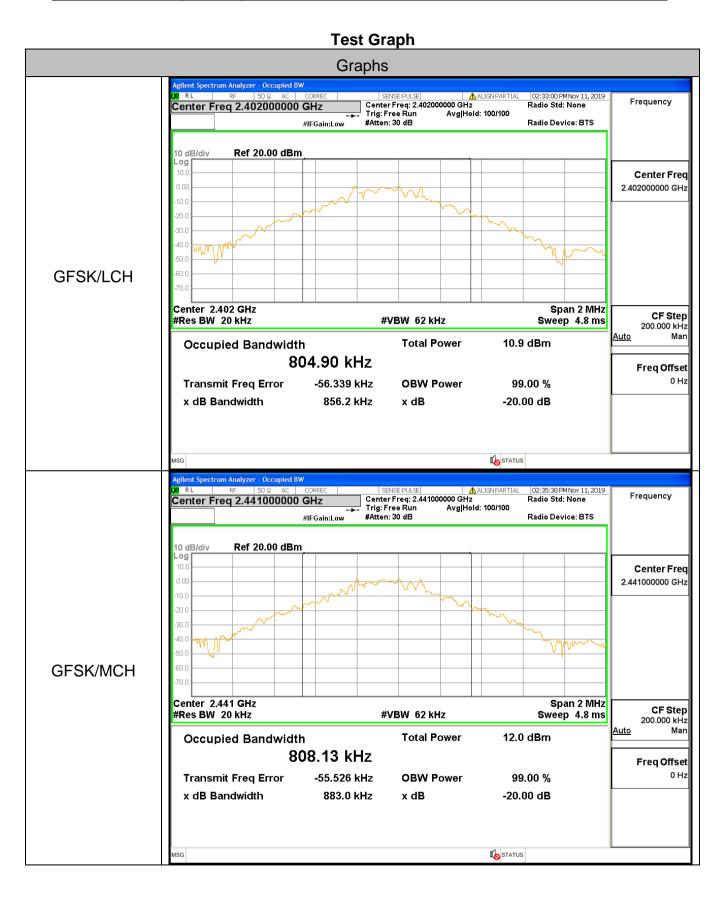
Test Model: Nickel FCC ID: YPVITALCOMNICKEL

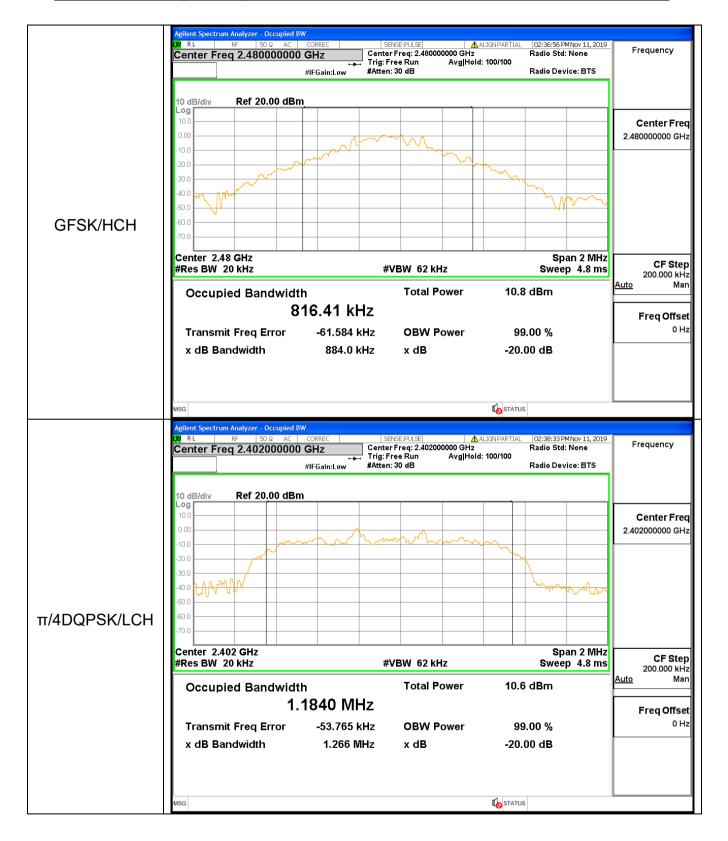
## **Environmental Conditions**

Temperature:	22.5° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	Gary Qian
Supervised by:	Eden Hu

#### A.1 20 dB Bandwidth

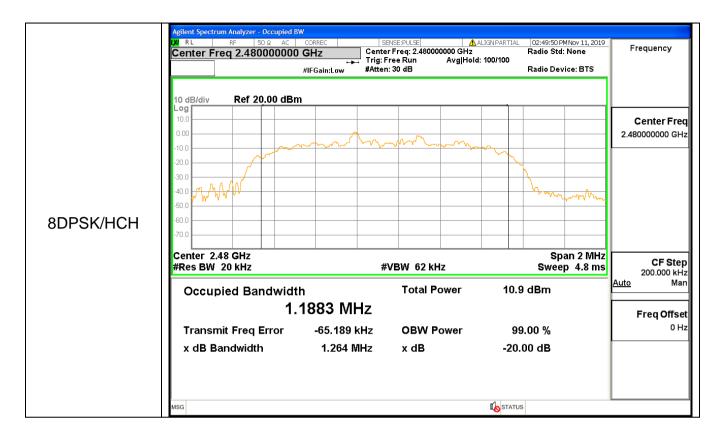
Mode	Channel.	20dB Bandwidth [MHz]	Limit(MHz)	Verdict
GFSK	LCH	0.856	Not Specified	PASS
GFSK	MCH	0.883	Not Specified	PASS
GFSK	HCH	0.884	0.884 Not Specified	
π/4DQPSK	LCH	1.266	Not Specified	PASS
π/4DQPSK	MCH	1.266	Not Specified	
π/4DQPSK	HCH	1.268	Not Specified	PASS
8DPSK	LCH	1.309	Not Specified	PASS
8DPSK	MCH	1.270	Not Specified	PASS
8DPSK	HCH	1.264	Not Specified	PASS







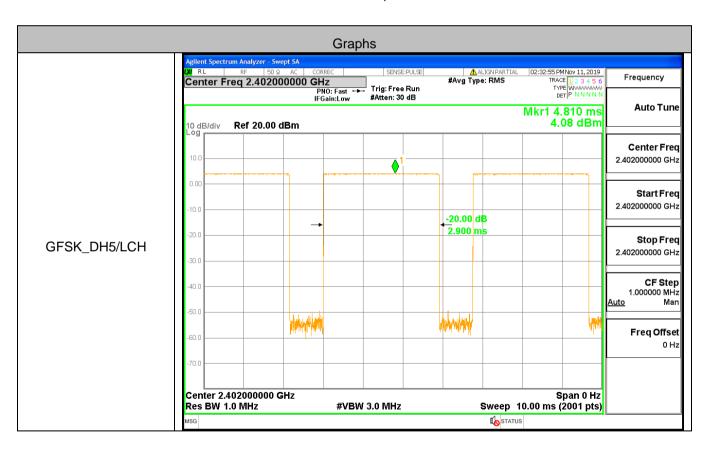


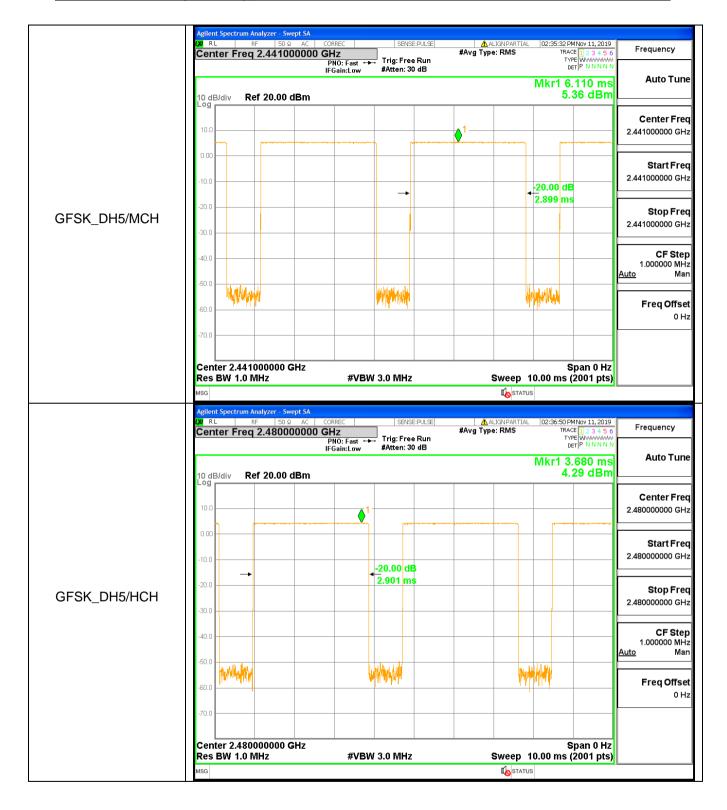


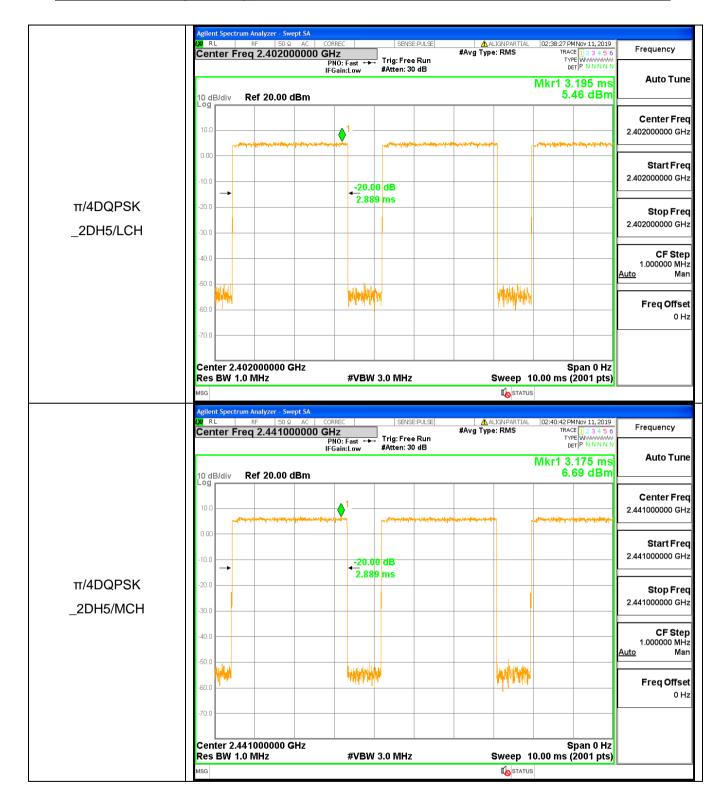
### A.2 Dwell Time

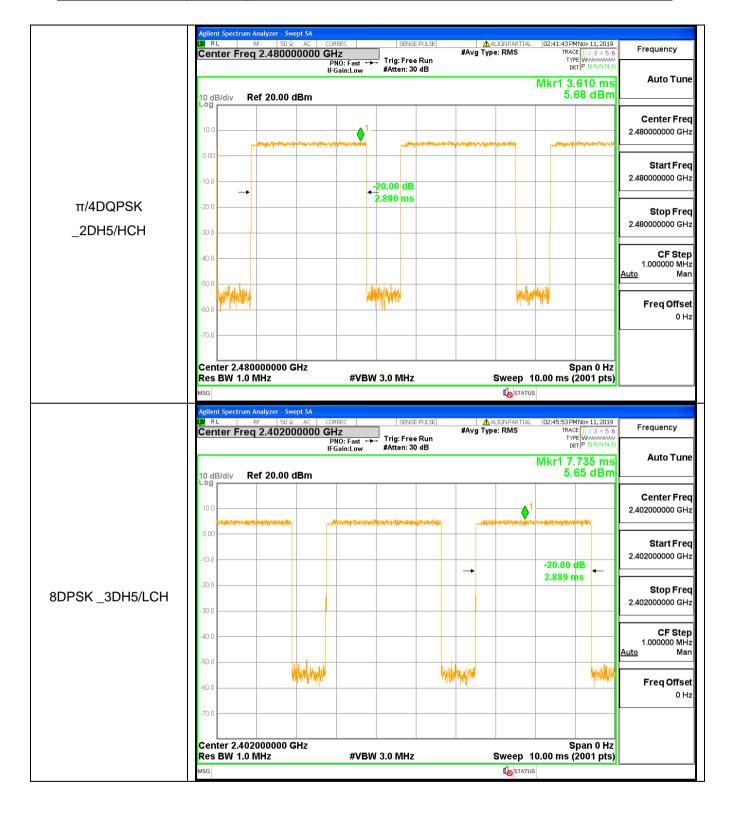
Mode	Packet	Chann el	Burst Width [s/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdic t
GFSK	DH5	LCH	0.002900	106.7	0.3094	0.4	PASS
GFSK	DH5	мсн	0.002899	106.7	0.3094	0.4	PASS
GFSK	DH5	HCH	0.002901	0.002901 106.7		0.4	PASS
π/4DQPSK	2DH5	LCH	0.002889	106.7	0.3083	0.4	PASS
π/4DQPSK	2DH5	мсн	0.002889	106.7	0.3083	0.4	PASS
π/4DQPSK	2DH5	НСН	0.002890	106.7	0.3084	0.4	PASS
8DPSK	3DH5	LCH	0.002889	106.7	0.3083	0.4	PASS
8DPSK	3DH5	мсн	0.002890	106.7	0.3083	0.4	PASS
8DPSK	3DH5	НСН	0.002890	106.7	0.3083	0.4	PASS

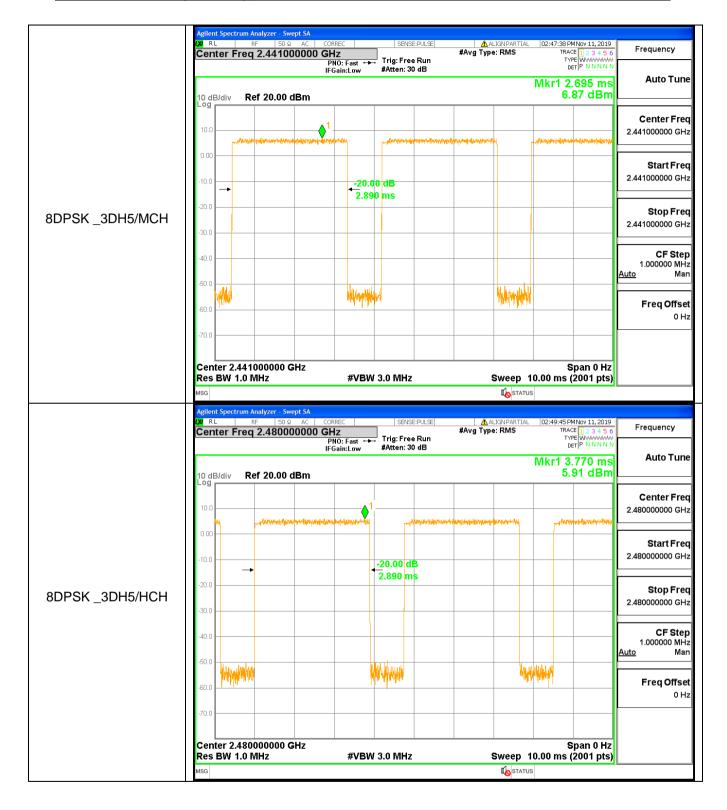
Test Graph







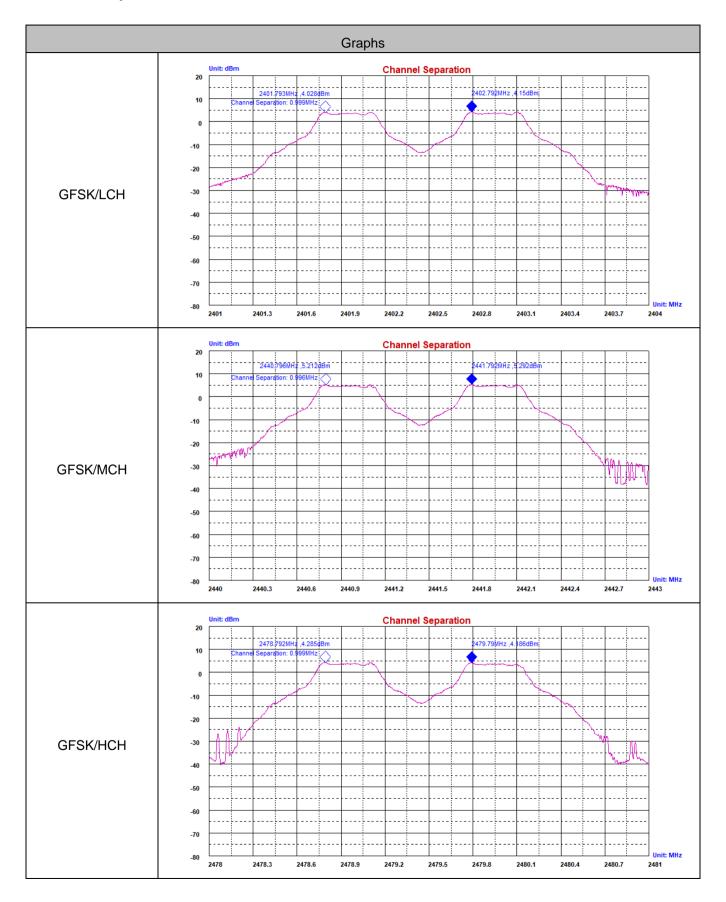


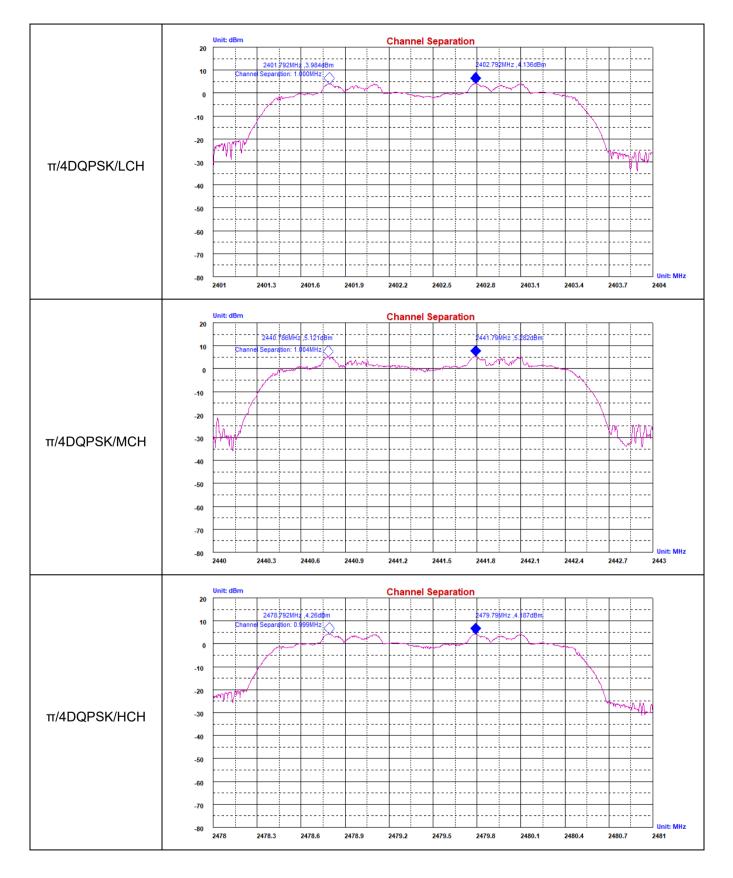


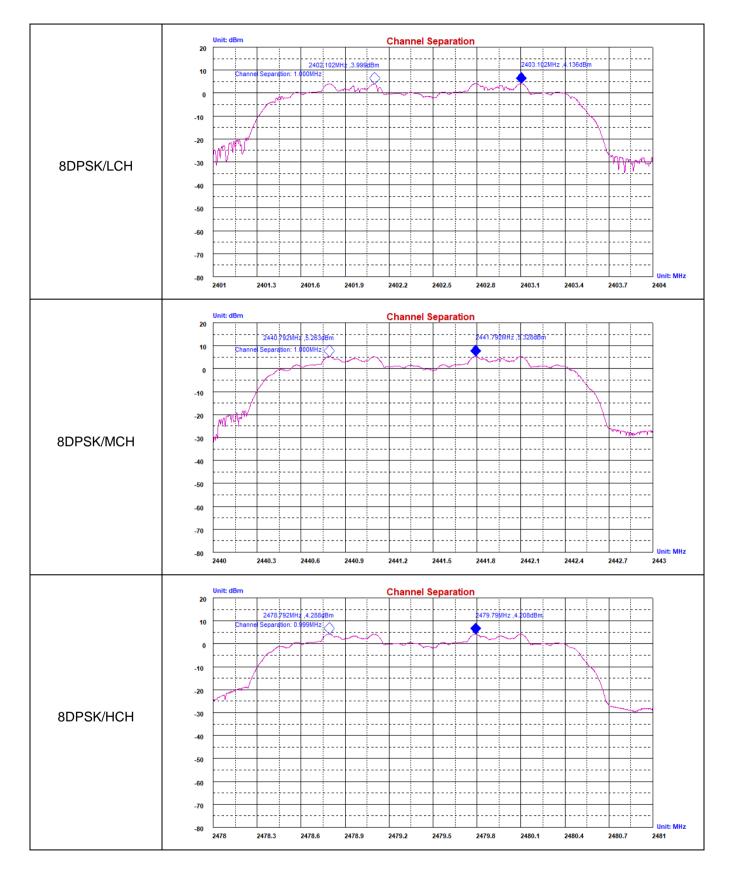
# A.3 Carrier Frequency Separation

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.999	0.571	PASS
GFSK	MCH	0.996	0.589	PASS
GFSK	HCH	0.999	0.589	PASS
π/4DQPSK	LCH	1.000	0.844	PASS
π/4DQPSK	MCH	1.004	0.844	PASS
π/4DQPSK	HCH	0.999	0.845	PASS
8DPSK	LCH	1.000	0.873	PASS
8DPSK	MCH	1.000	0.843	PASS
8DPSK	HCH	0.999	0.843	PASS

## **Test Graph**



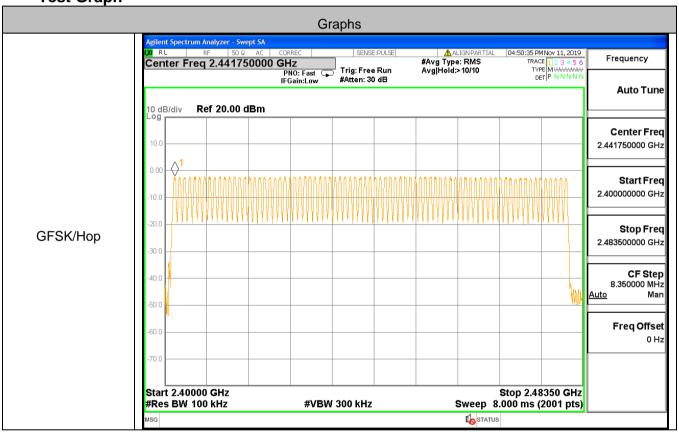


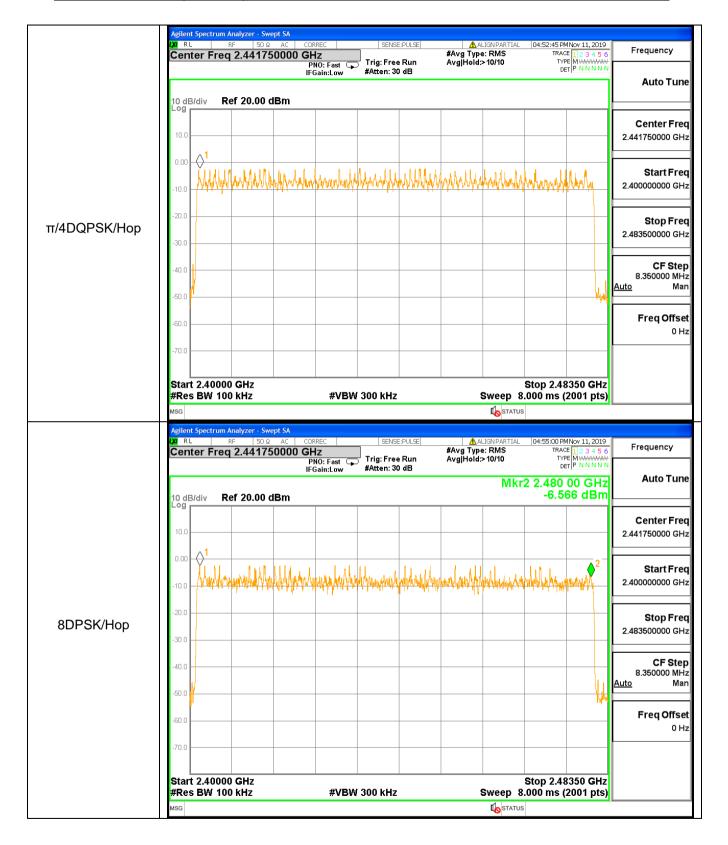


A.4 Hopping Channel Number

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

Test Graph

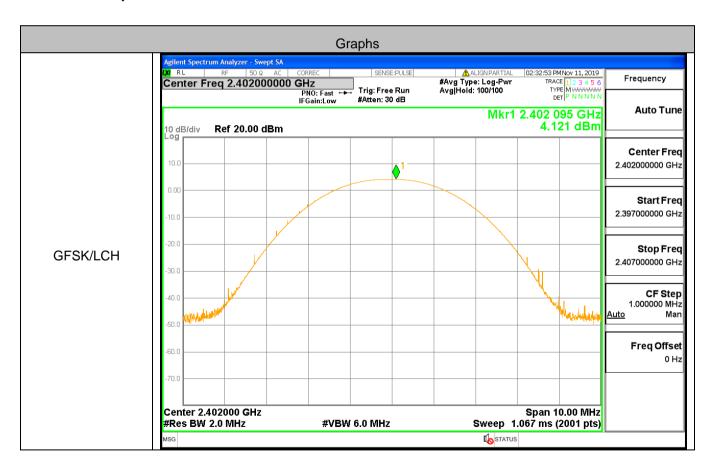


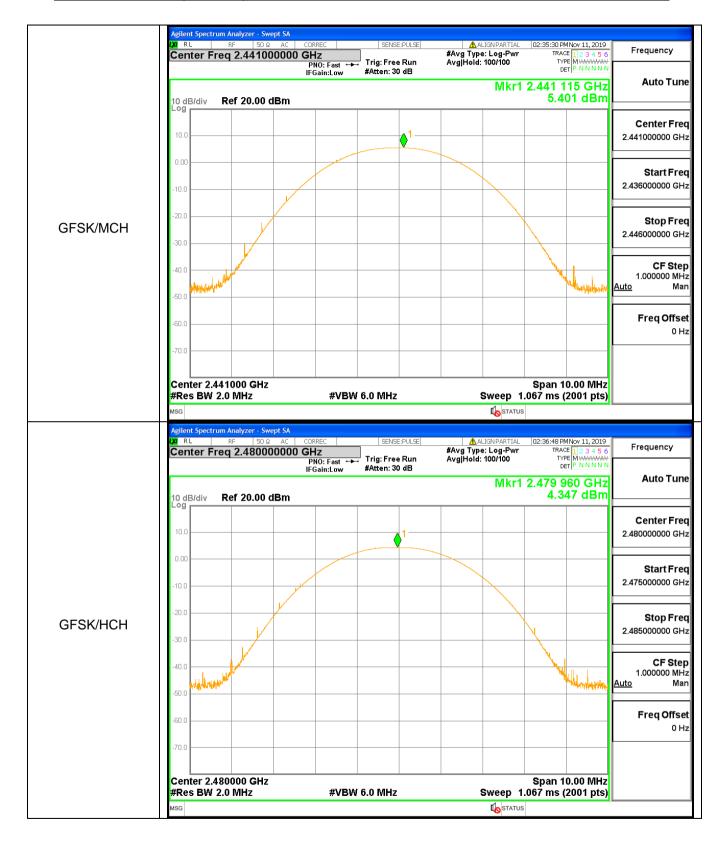


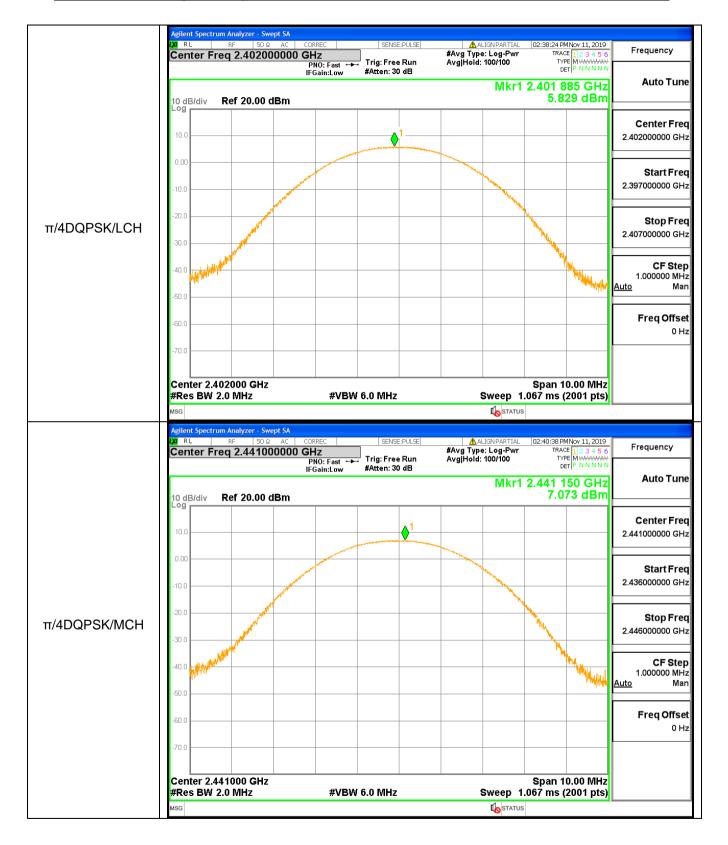
A.5 Conducted Peak Output Power

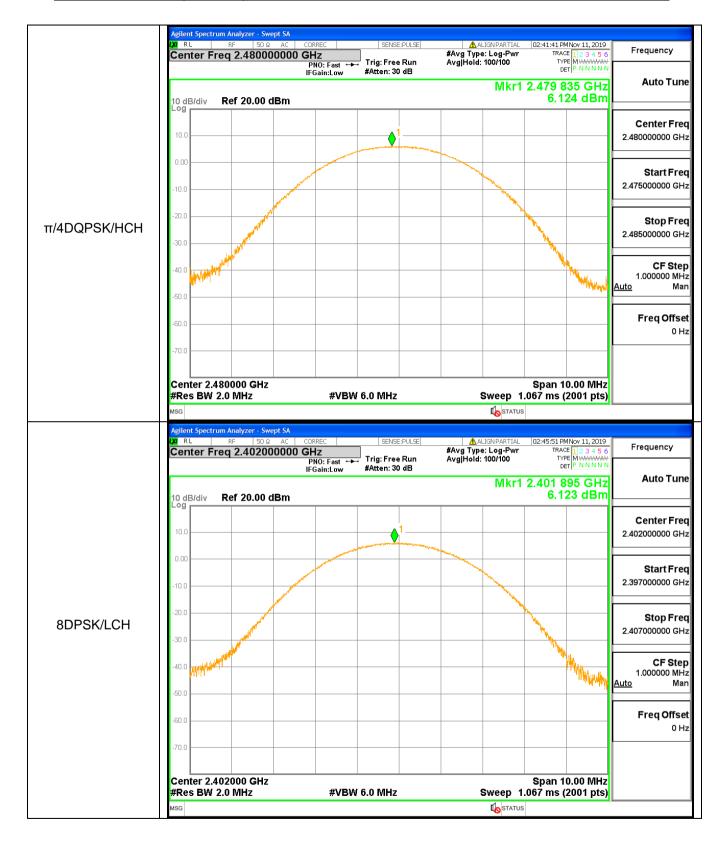
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	4.121	21	PASS
GFSK	MCH	5.401	21	PASS
GFSK	НСН	4.347	21	PASS
π/4DQPSK	LCH	5.829	21	PASS
π/4DQPSK	MCH	7.073	21	PASS
π/4DQPSK	HCH	6.124	21	PASS
8DPSK	LCH	6.123	21	PASS
8DPSK	MCH	7.322	21	PASS
8DPSK	HCH	6.407	21	PASS

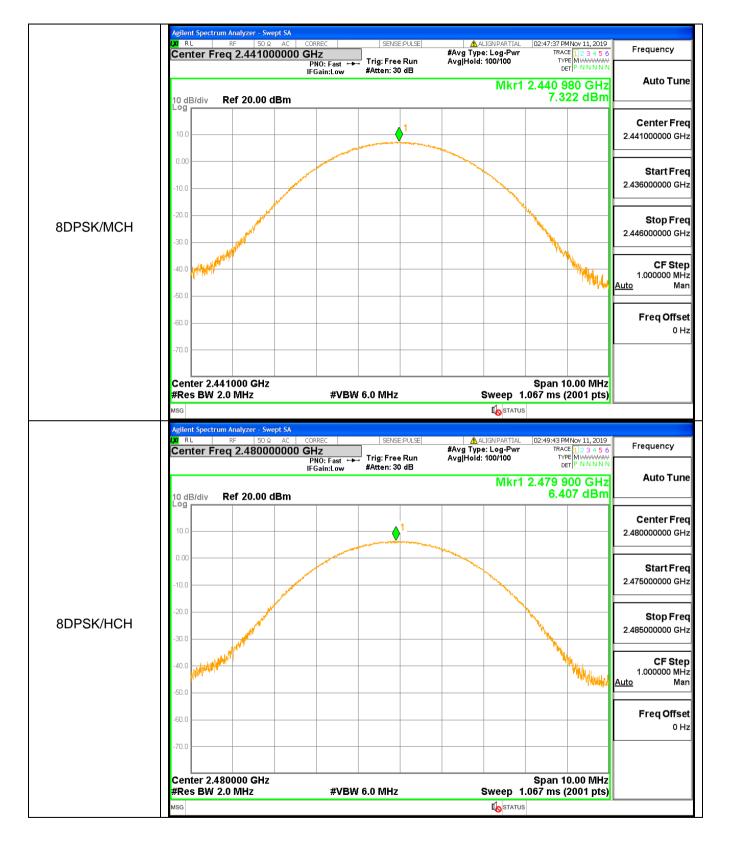
## **Test Graph**









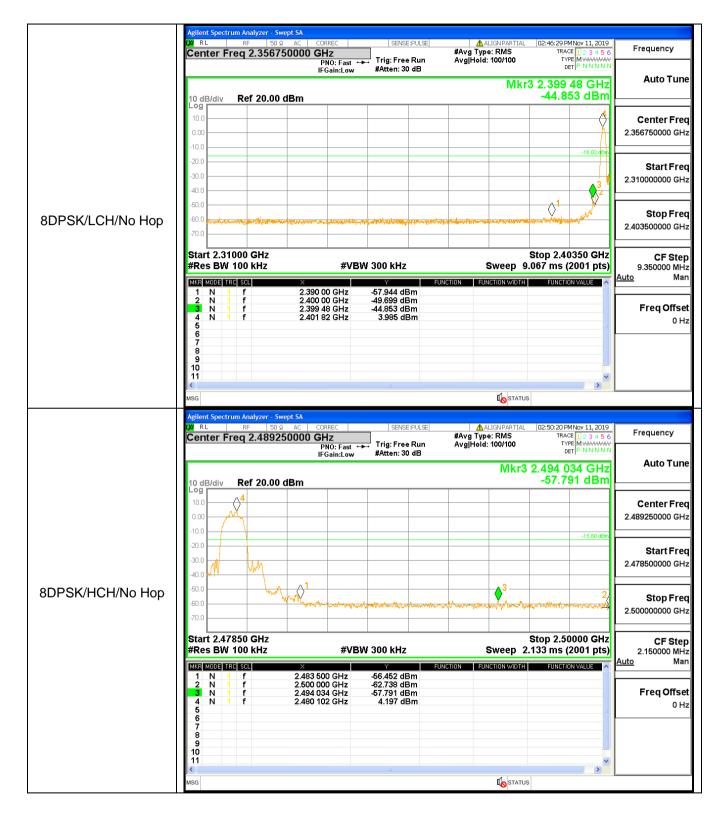


A.6 Band-edge for RF Conducted Emissions

Alo Bana cage for Kr. Conadotea Emissions									
Туре	Carrier Frequency(MHz )	Frequency(MHz )	Carrier Frequency Power [dBm]	Bandedge Peak(dBm)	Upper limit(dBm)	Conclusion			
1DH5	2402	2400	4.030	-60.110	-15.970	Pass			
1DH5	2480	2490.83	3.983	-56.816	-16.017	Pass			
2DH5	2402	2399.48	3.999	-45.265	-16.001	Pass			
2DH5	2480	2483.5	3.786	-58.410	-16.214	Pass			
3DH5	2402	2399.48	3.985	-44.853	-16.015	Pass			
3DH5	2480	2483.5	4.197	-56.450	-15.803	Pass			
1DH5-Hopping	2402	2398.74	-2.302	-41.737	-22.302	Pass			
1DH5-Hopping	2480	2483.5	-2.416	-45.670	-22.416	Pass			
2DH5-Hopping	2402	2399.85	-2.346	-38.819	-22.346	Pass			
2DH5-Hopping	2480	2483.5	-2.438	-47.340	-22.438	Pass			
3DH5-Hopping	2402	2400	-2.306	-39.210	-22.306	Pass			
3DH5-Hopping	2480	2483.5	-2.432	-46.400	-22.432	Pass			

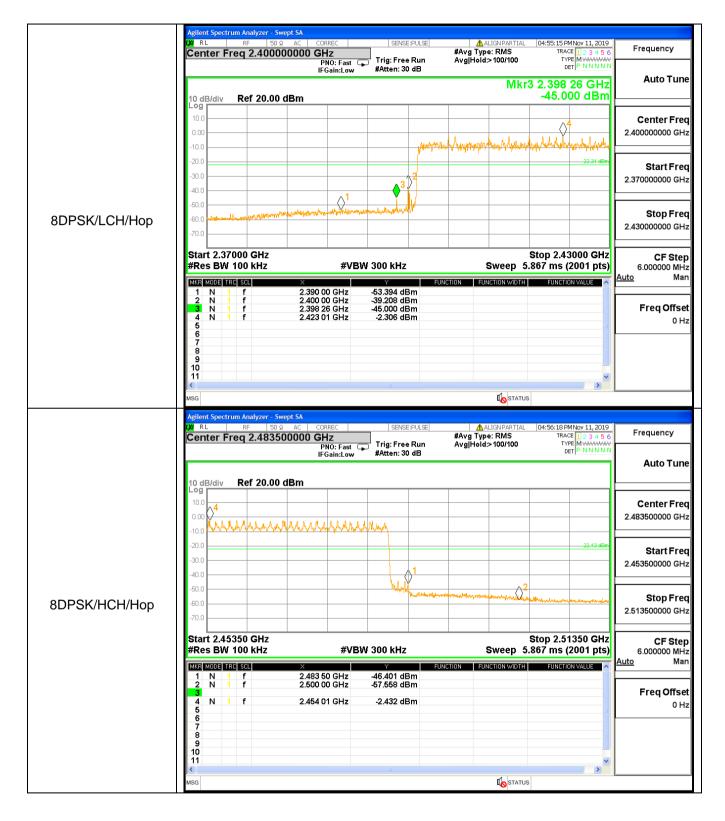




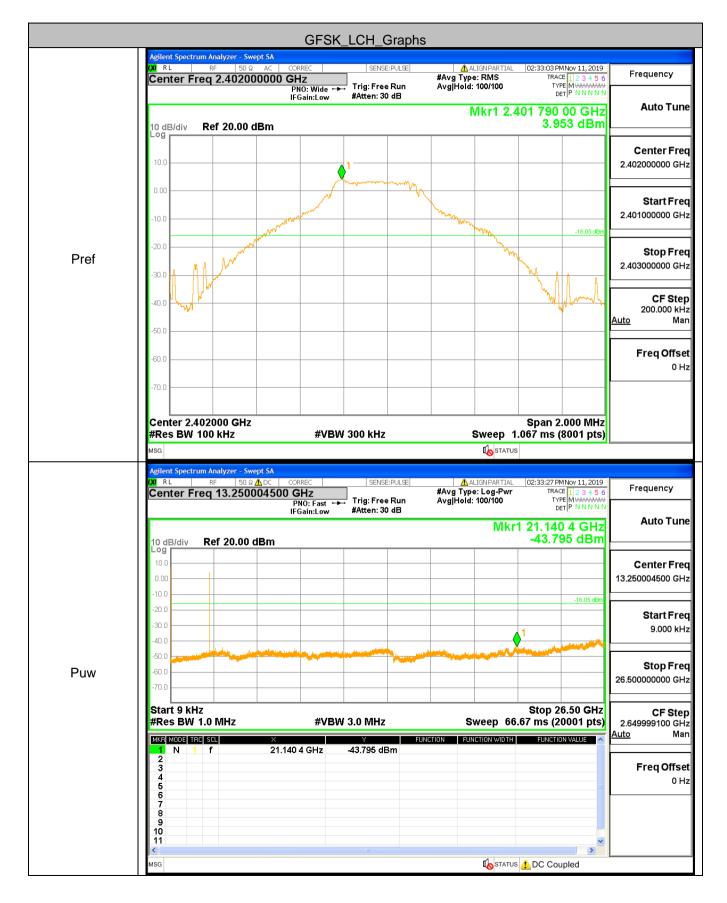


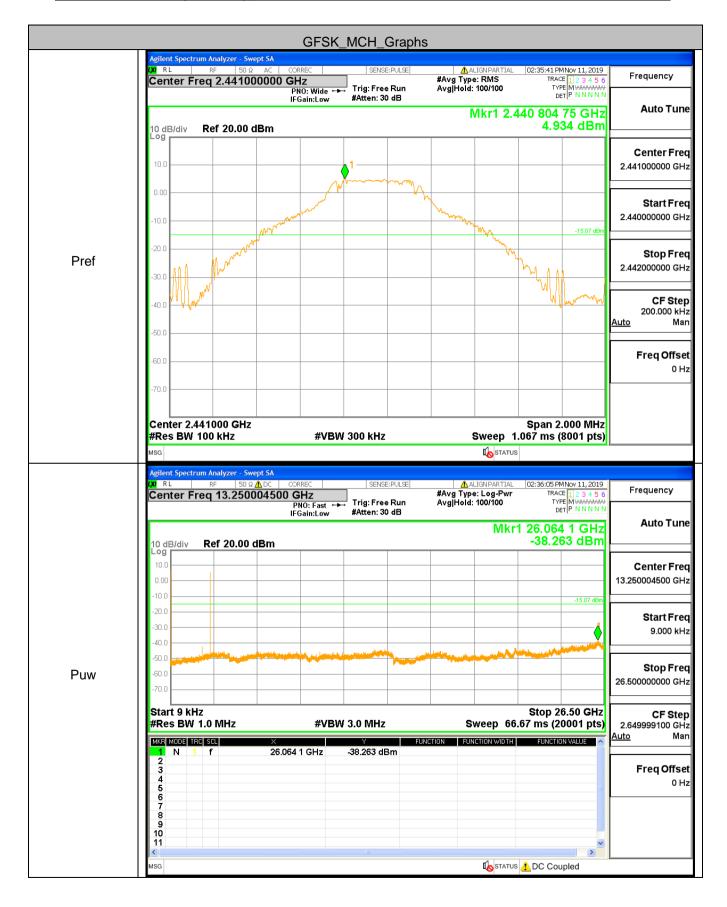


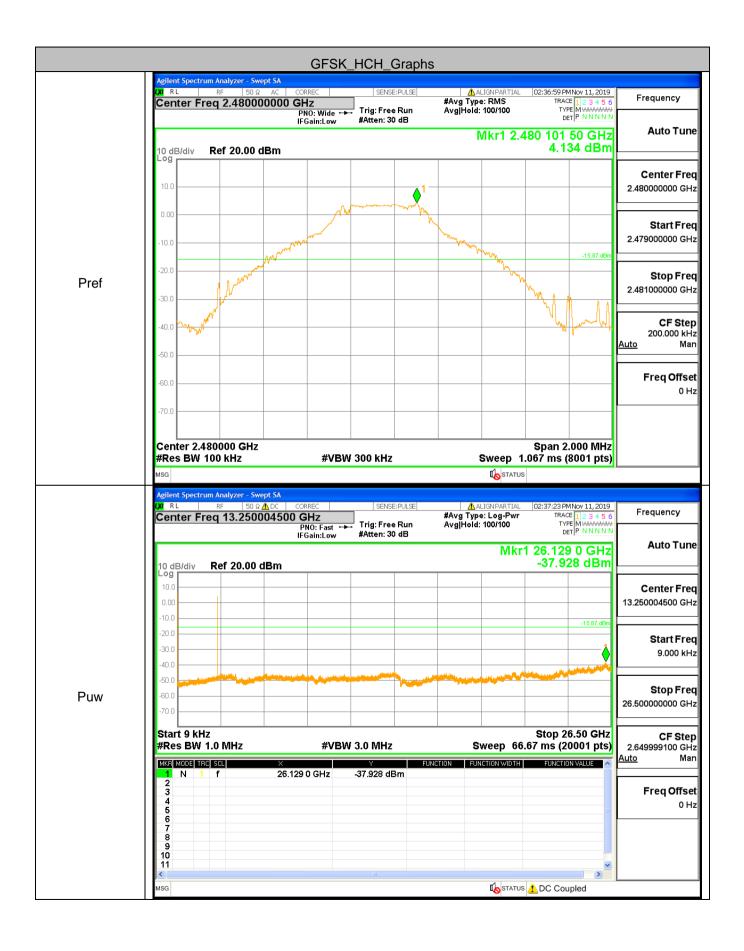


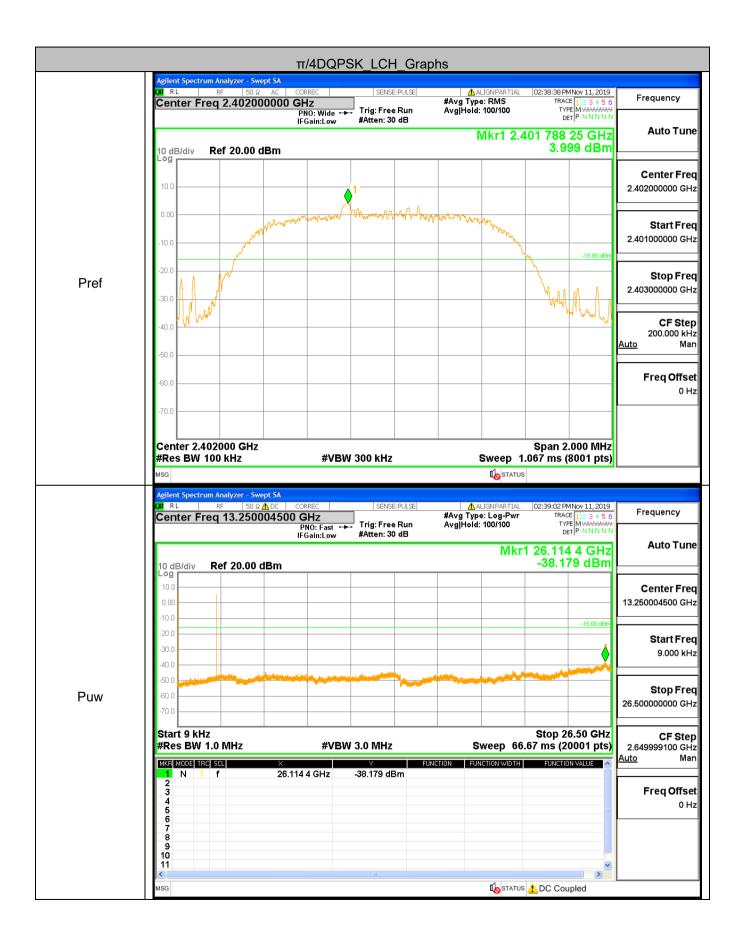


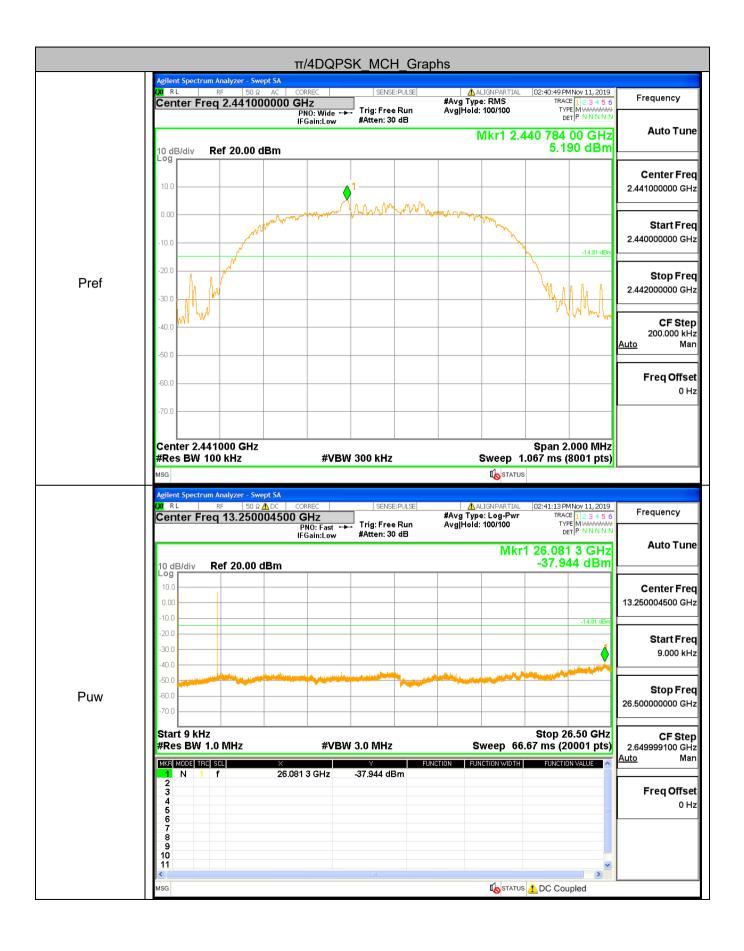
# A.7 RF Conducted Spurious Emissions Test Graph

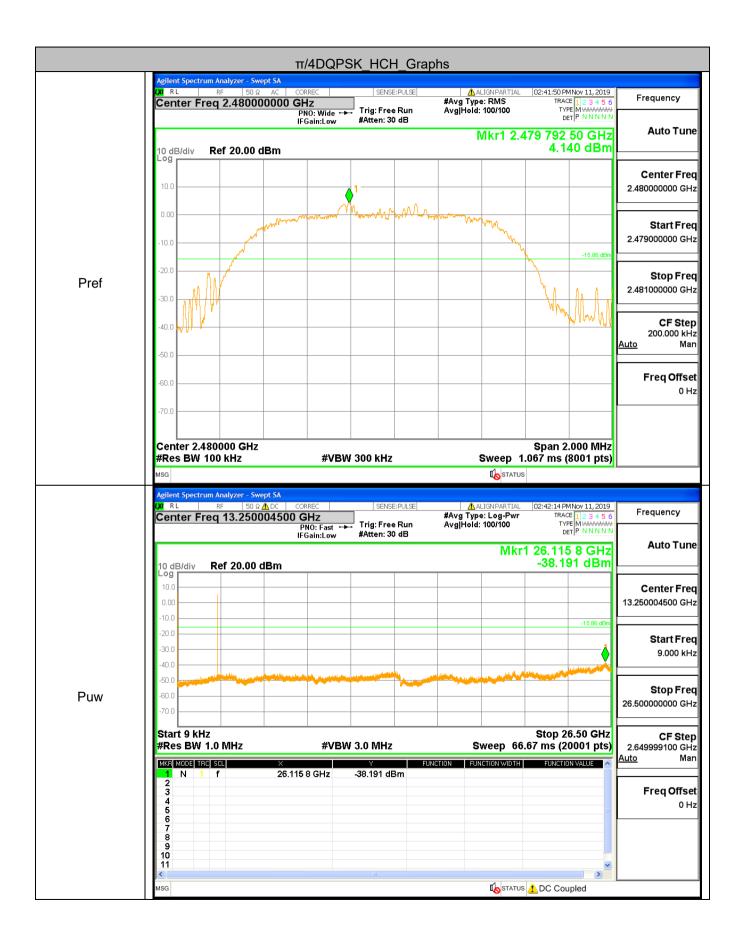


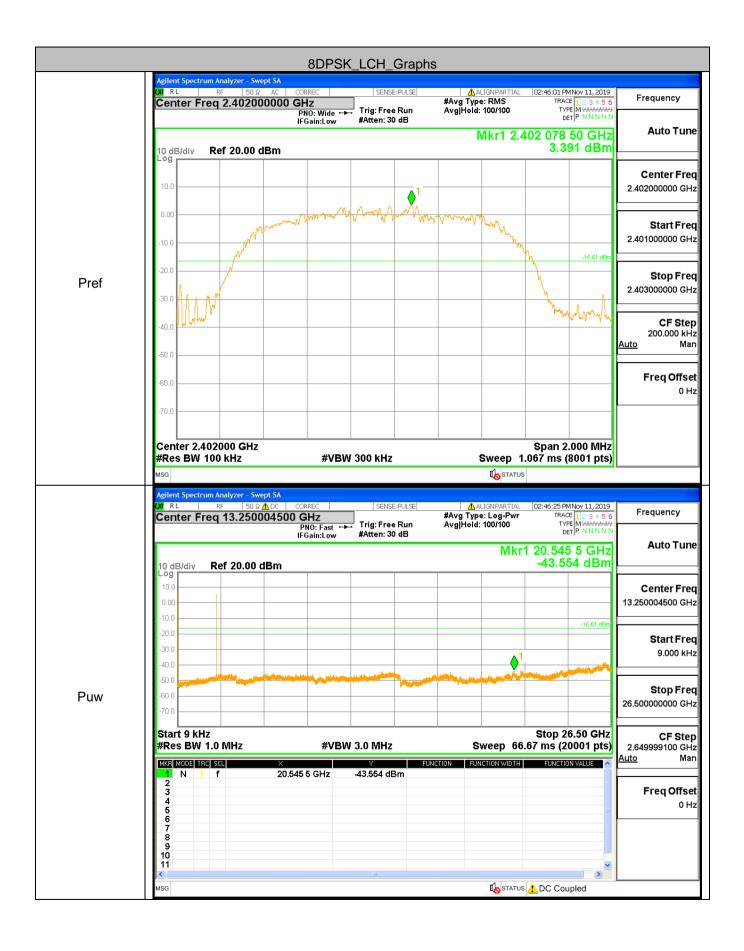


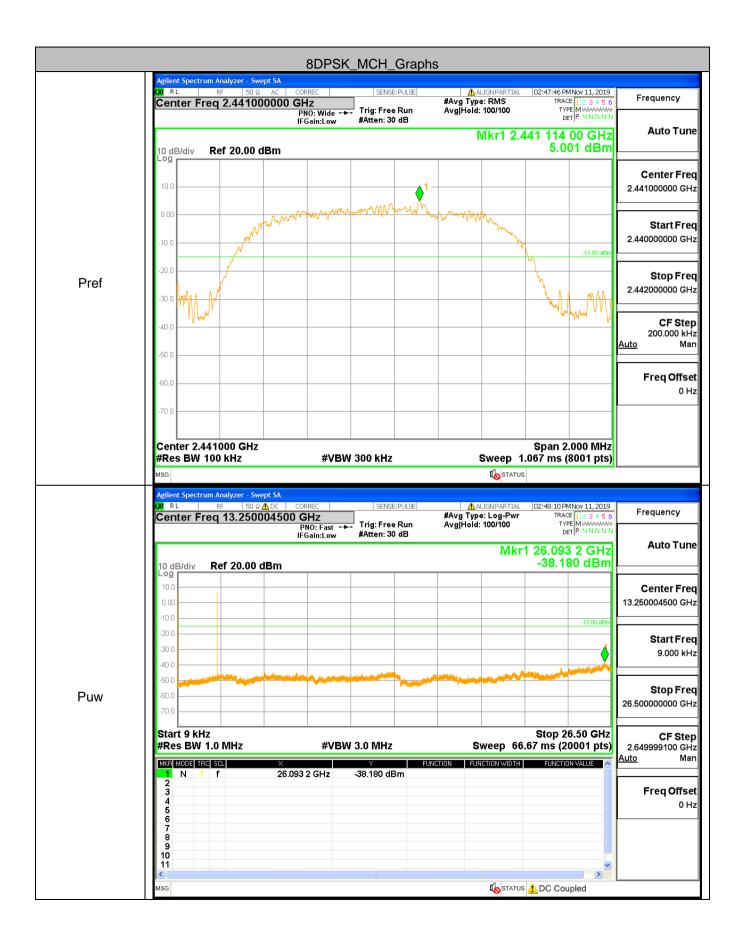


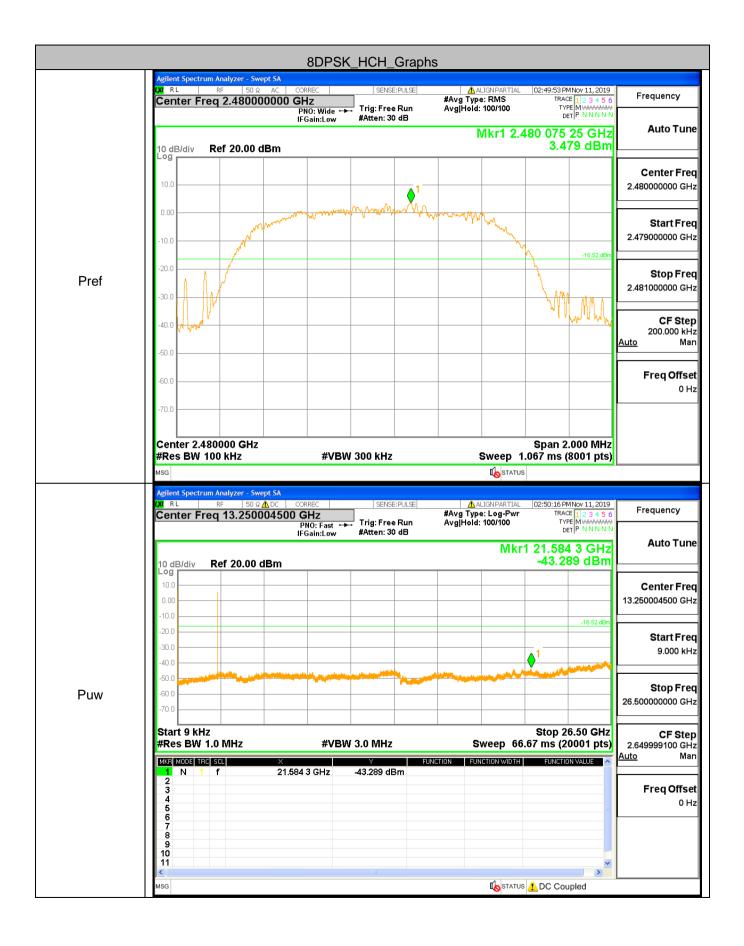












# A.8 Restrict-band band-edge measurements

Туре	Carrier Frequency (MHz)	Frequency(M Hz)	Gain	Ground Factor	Peak Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Conclusion
1DH5	2402	2390	2.10	0.00	-49.34	47.96	74	Pass
1DH5	2480	2484.251	2.10	0.00	-46.34	50.96	74	Pass
2DH5	2402	2390	2.10	0.00	-50.48	46.82	74	Pass
2DH5	2480	2484.477	2.10	0.00	-45.436	51.86	74	Pass
3DH5	2402	2390	2.10	0.00	-50.34	46.96	74	Pass
3DH5	2480	2483.5	2.10	0.00	-47.51	49.79	74	Pass

Туре	Carrier Frequency (MHz)	Frequency(M Hz)	Gain	Ground Factor	Average Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Conclusion
1DH5	2402	2390	2.10	0.00	-58.24	39.06	54	Pass
1DH5	2480	2484.251	2.10	0.00	-53.10	44.20	54	Pass
2DH5	2402	2390	2.10	0.00	-58.30	39.00	54	Pass
2DH5	2480	2484.477	2.10	0.00	-50.78	46.52	54	Pass
3DH5	2402	2390	2.10	0.00	-58.29	39.01	54	Pass
3DH5	2480	2483.5	2.10	0.00	-50.75	46.55	54	Pass

