



Appendix A

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

Product Name: FitBuds H2

Trade Mark: Blackview

Test Model: FitBuds H2

Environmental Conditions

Temperature:	25.6° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Emiya Lin
Supervised by:	Simba Huang

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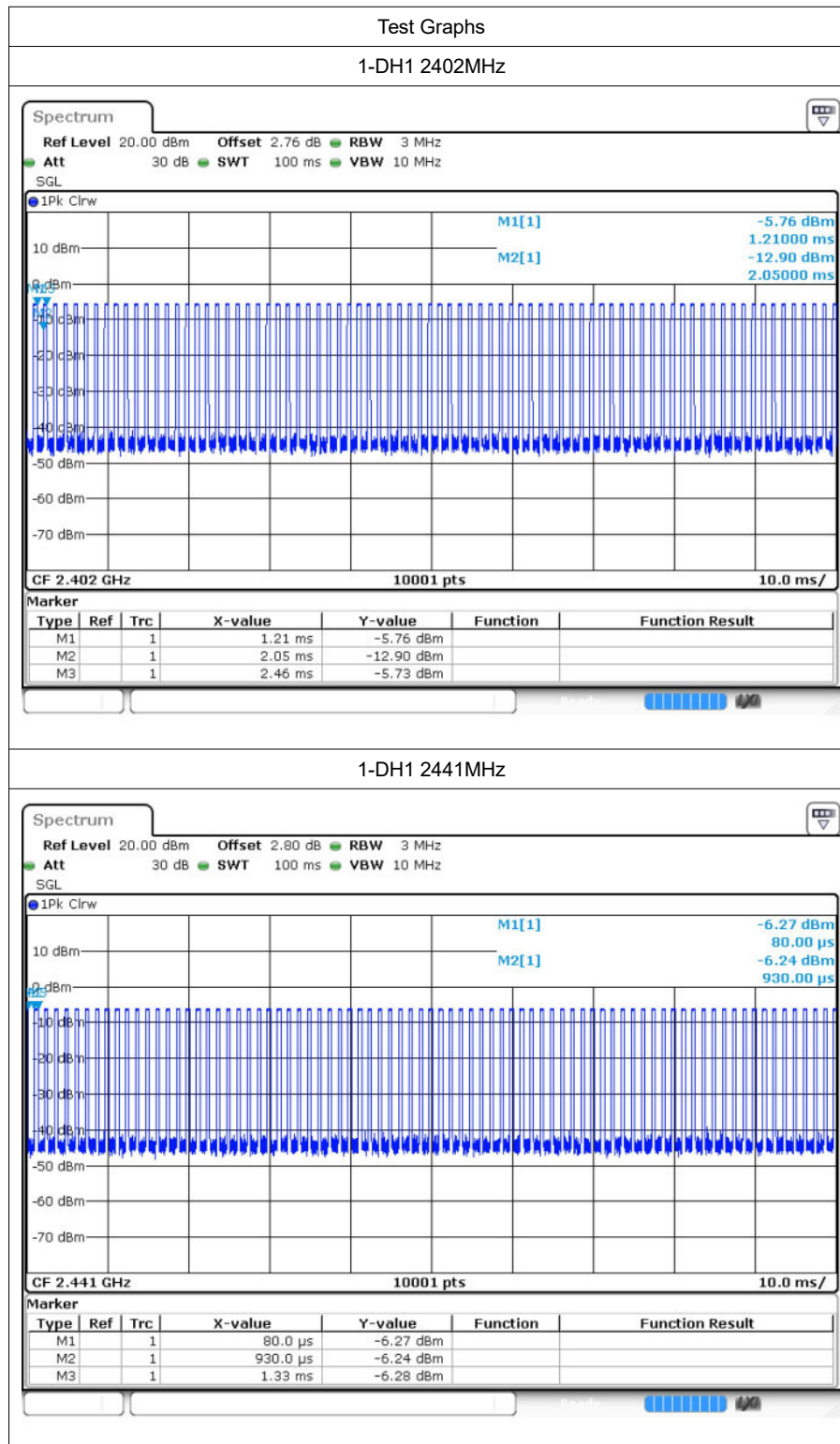
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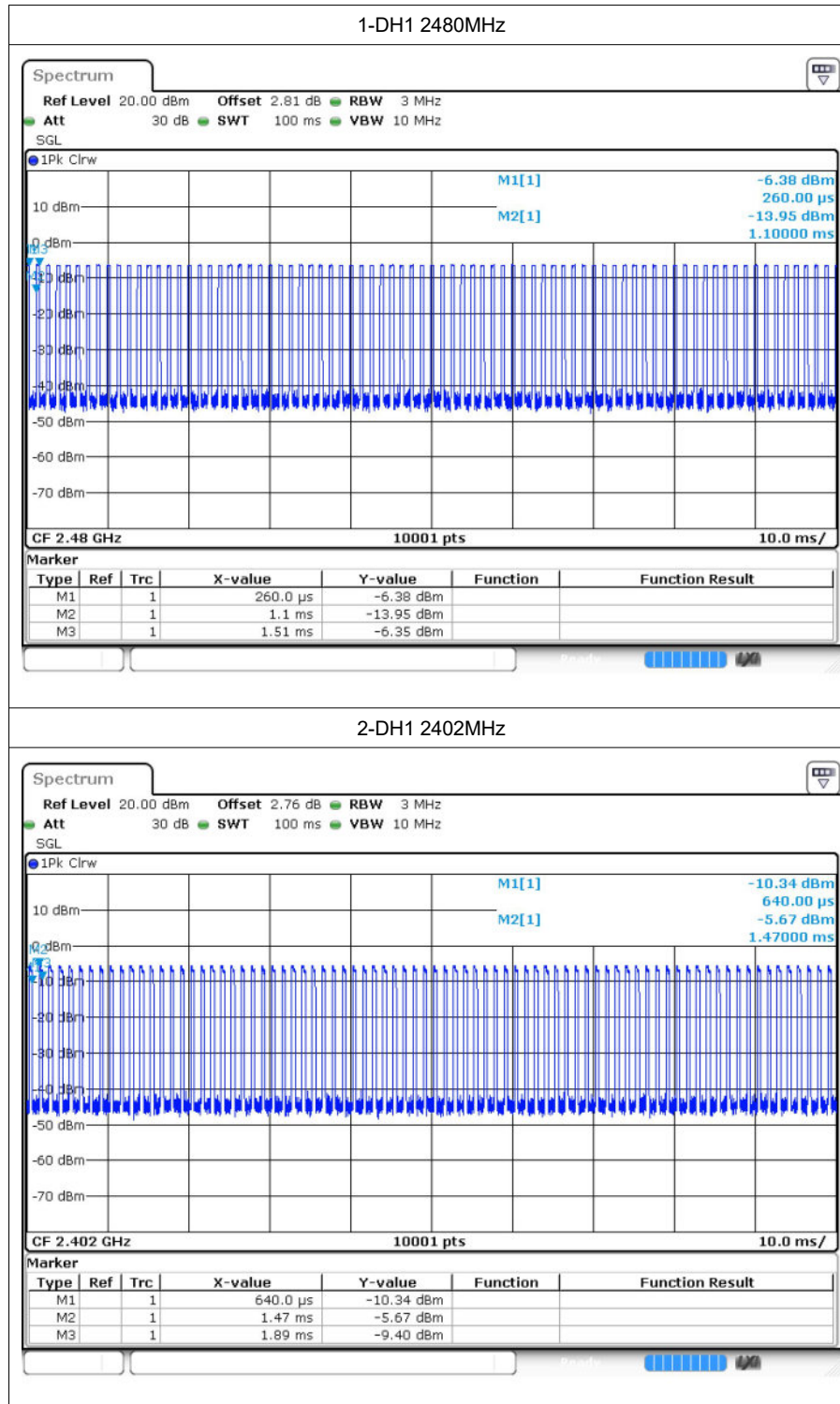
1 Duty Cycle

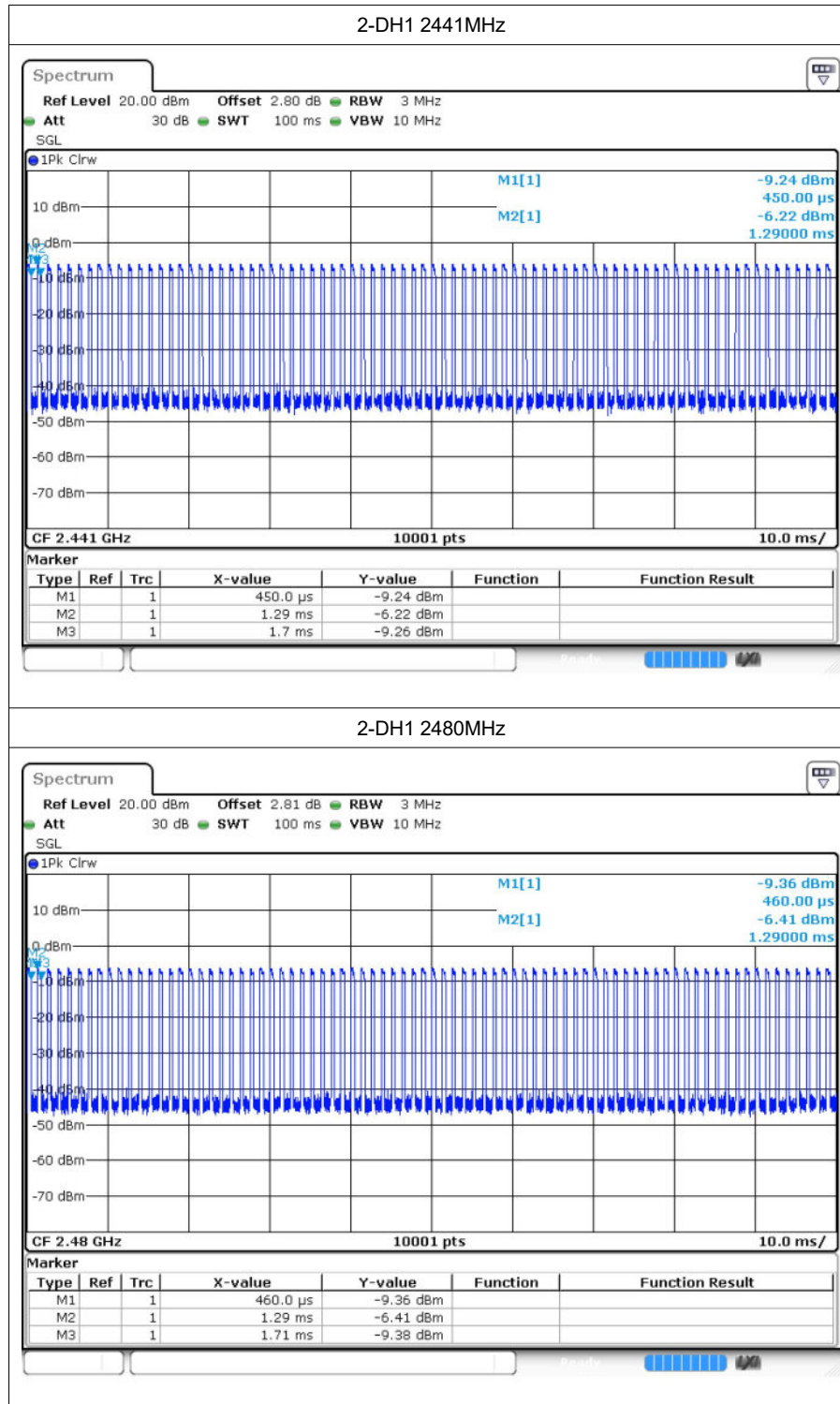
1.1 Test Result

Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor	1/T (kHz)
1-DH1	2402	33.6	4.74	2.44
1-DH1	2441	32.81	4.84	2.5
1-DH1	2480	33.61	4.74	2.44
2-DH1	2402	34.4	4.63	2.38
2-DH1	2441	33.69	4.73	2.44
2-DH1	2480	34.4	4.63	2.38

1.2 Test Graphs





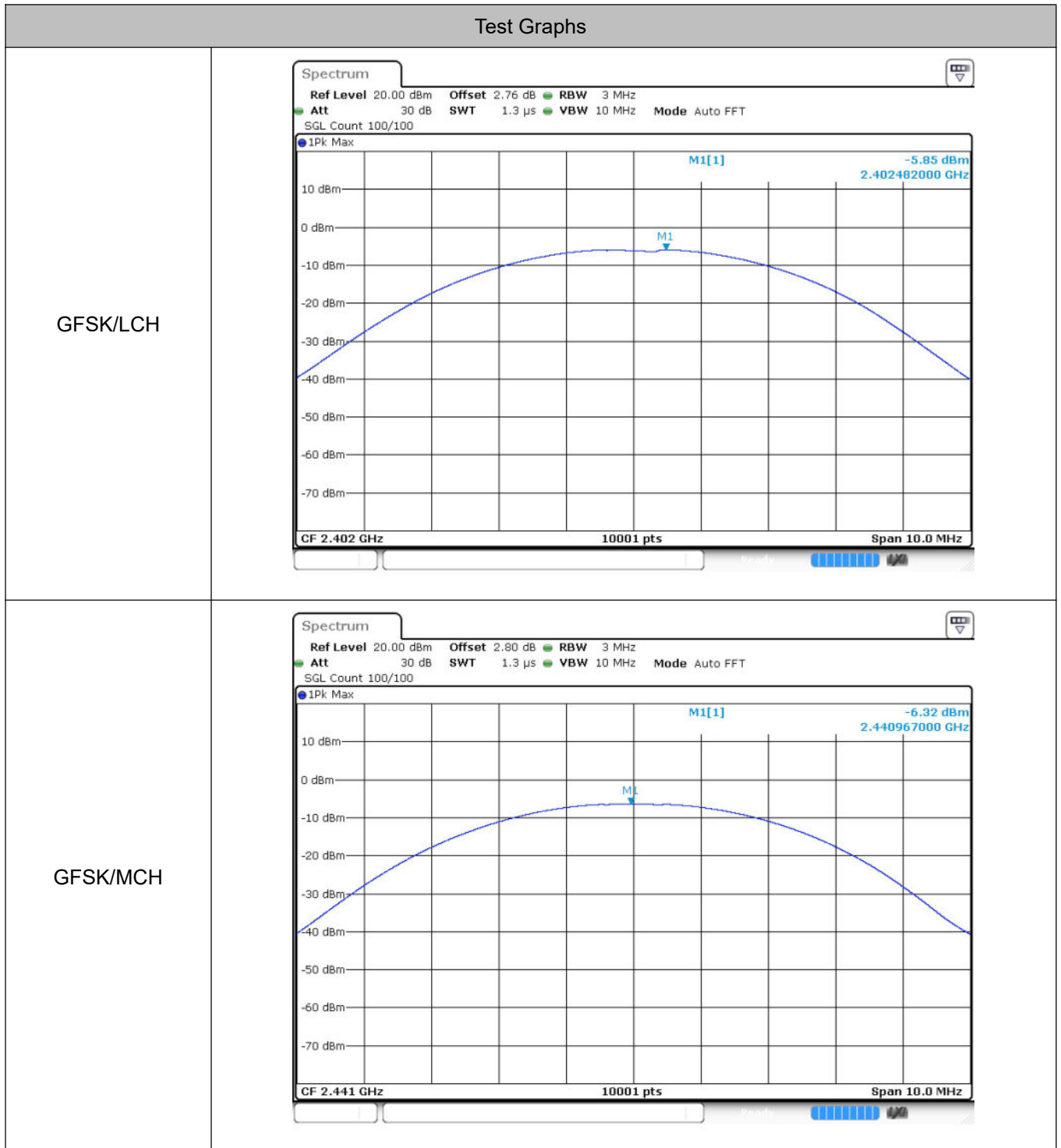


2 Maximum Conducted Peak Output Power

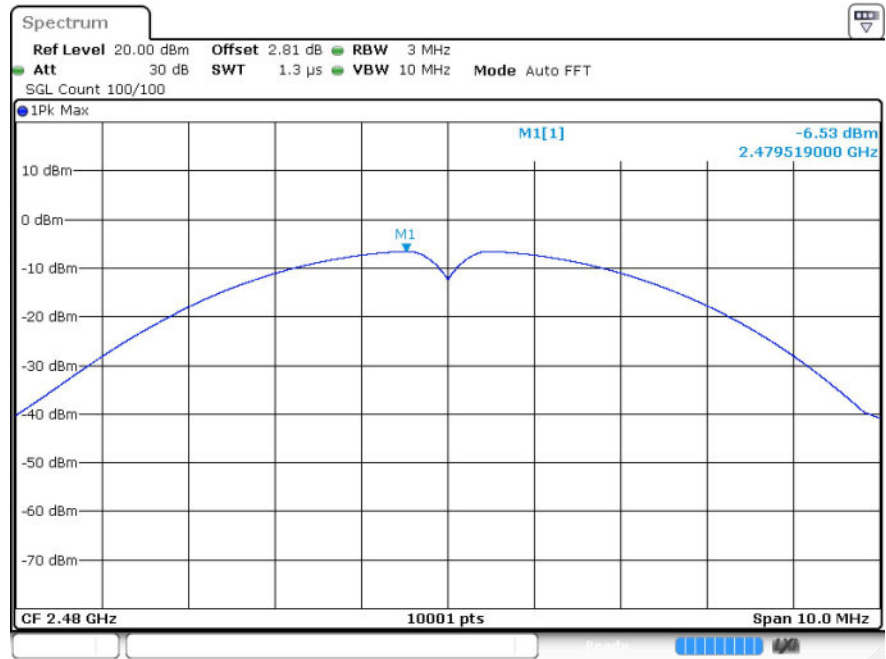
2.1 Test Result

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-5.85	21	Pass
	MCH	-6.32	21	Pass
	HCH	-6.53	21	Pass
$\pi/4$ DQPSK	LCH	-5.85	21	Pass
	MCH	-6.46	21	Pass
	HCH	-6.6	21	Pass

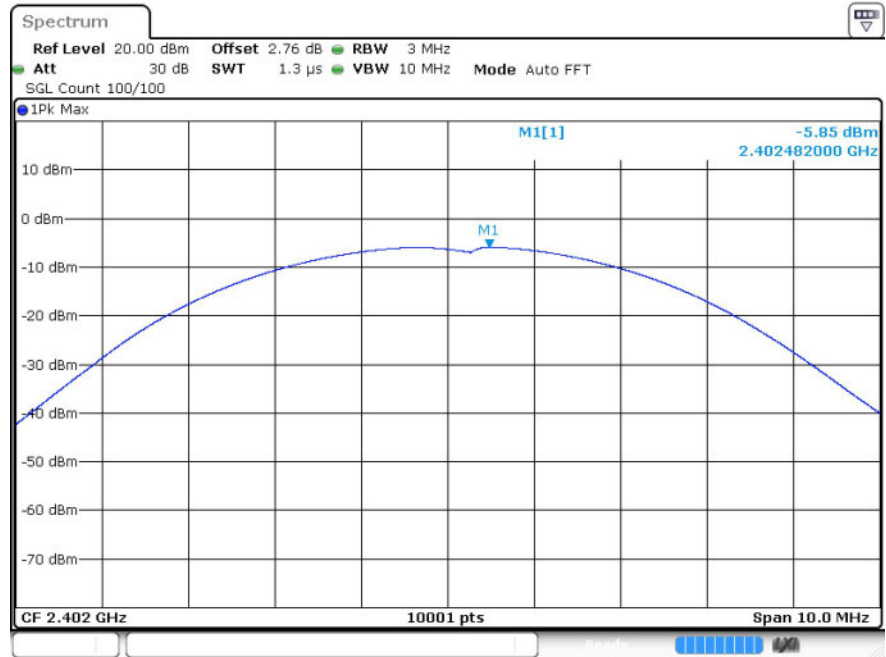
2.2 Test Graphs



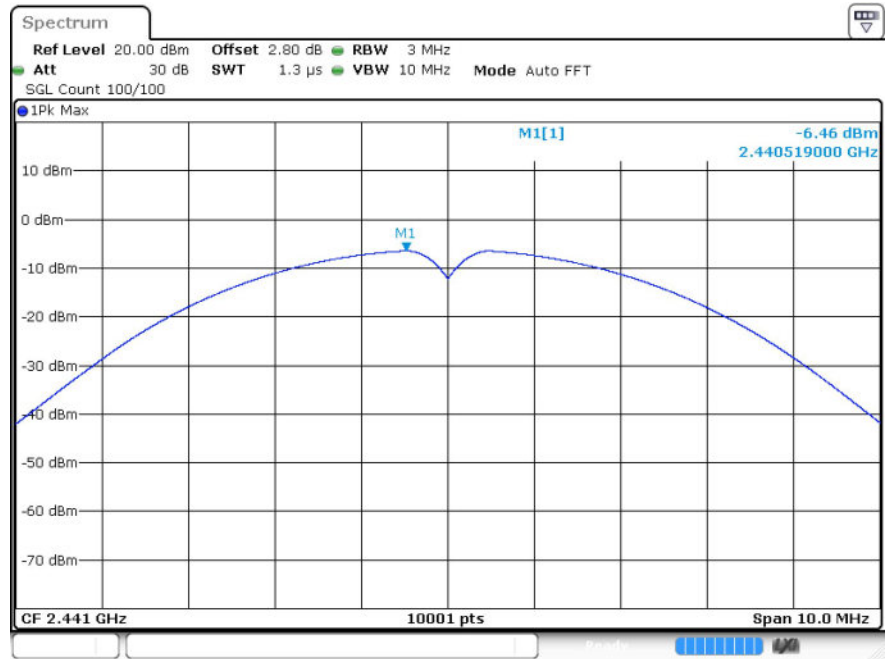
GFSK/HCH



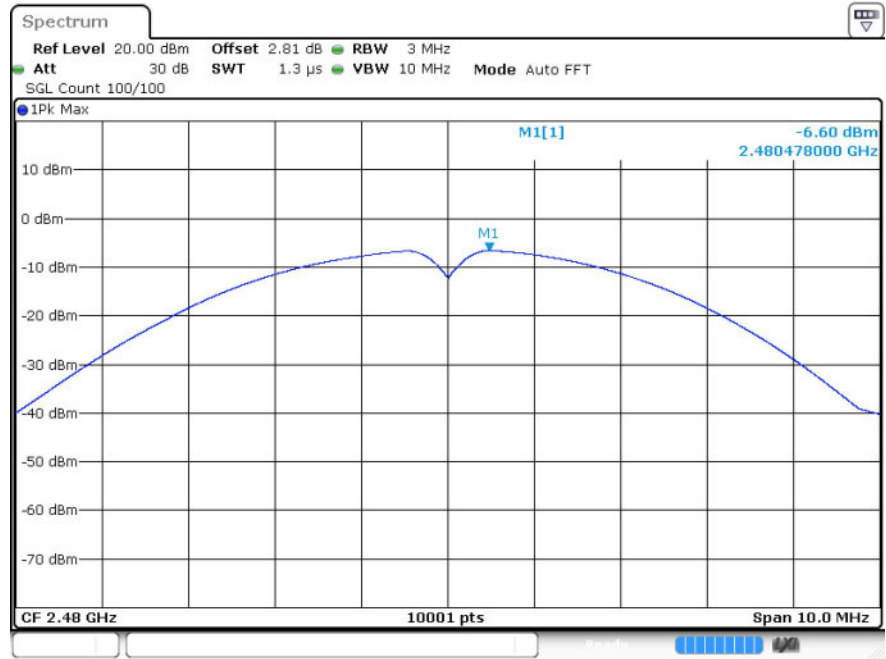
$\pi/4$ DQPSK/LCH



$\pi/4$ DQPSK/MCH



$\pi/4$ DQPSK/HCH

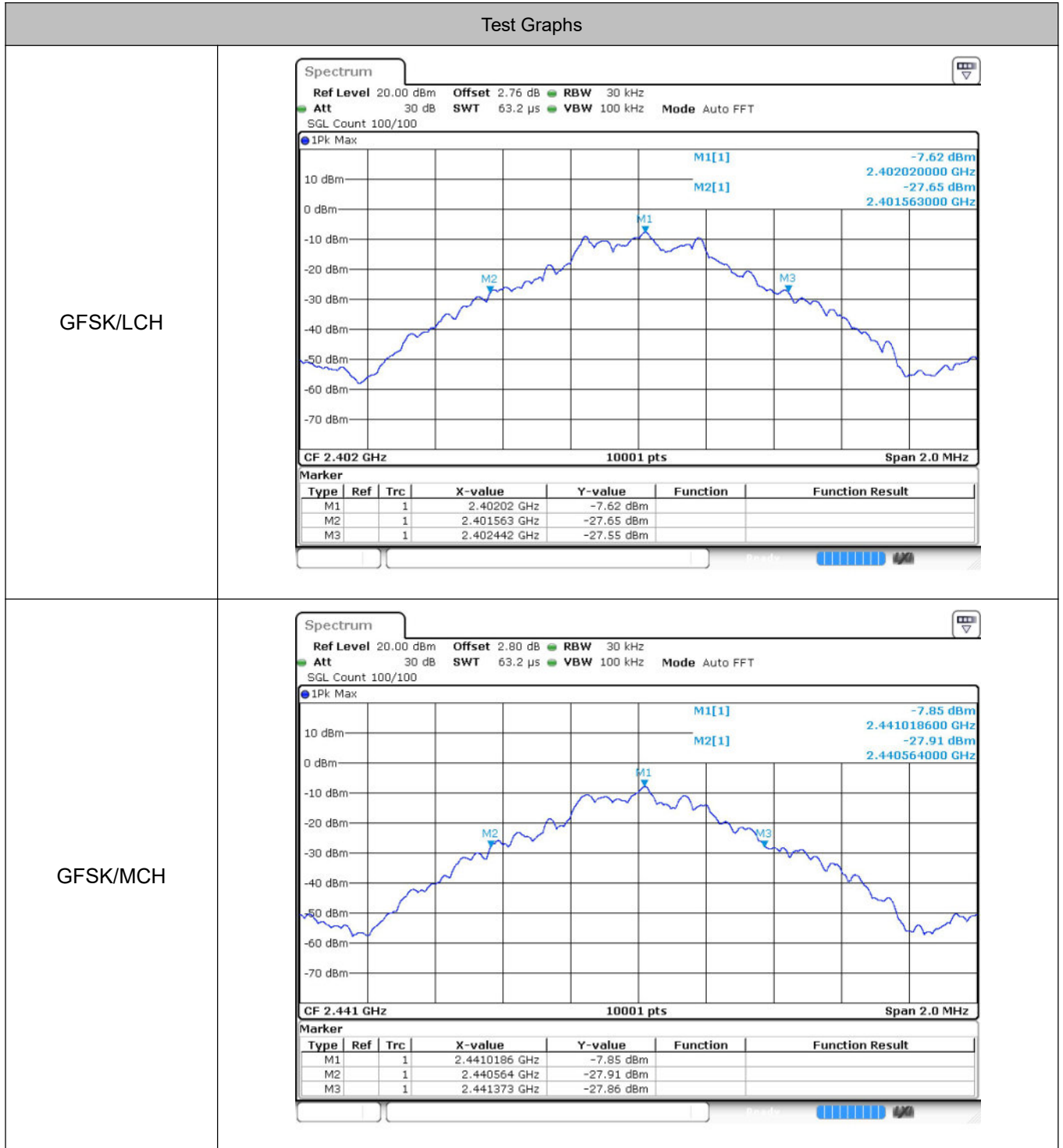


3 20dB Bandwidth

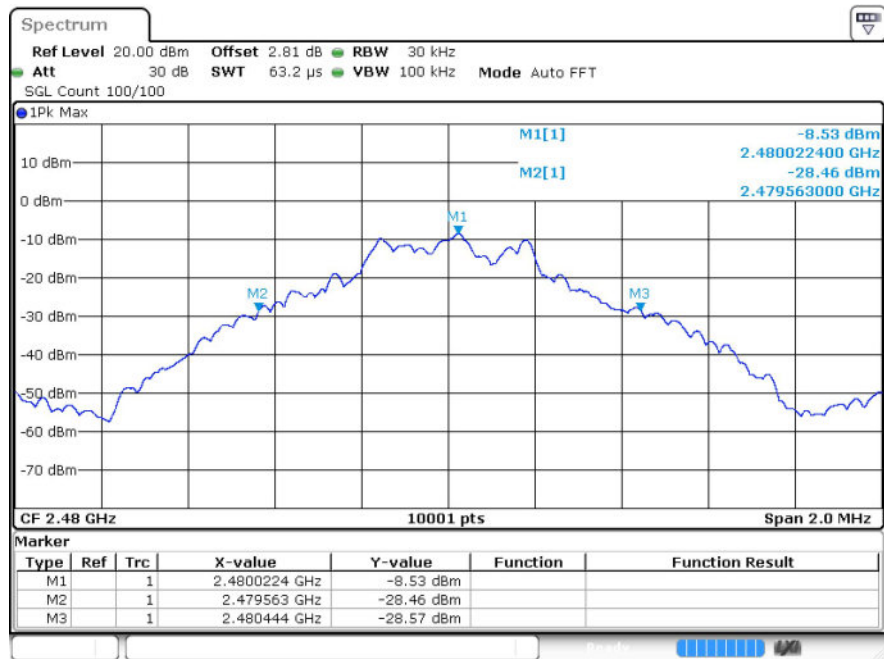
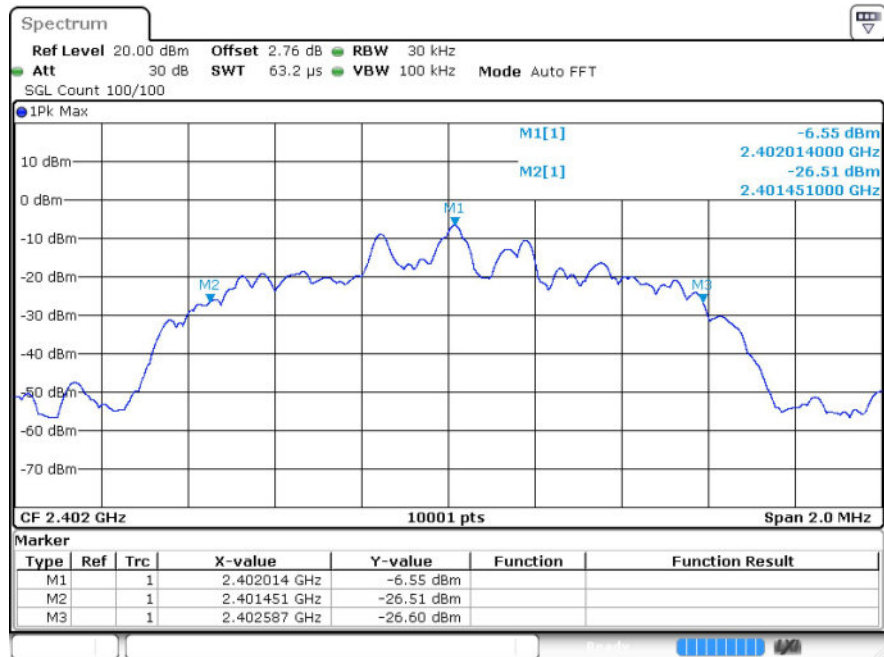
3.1 Test Result

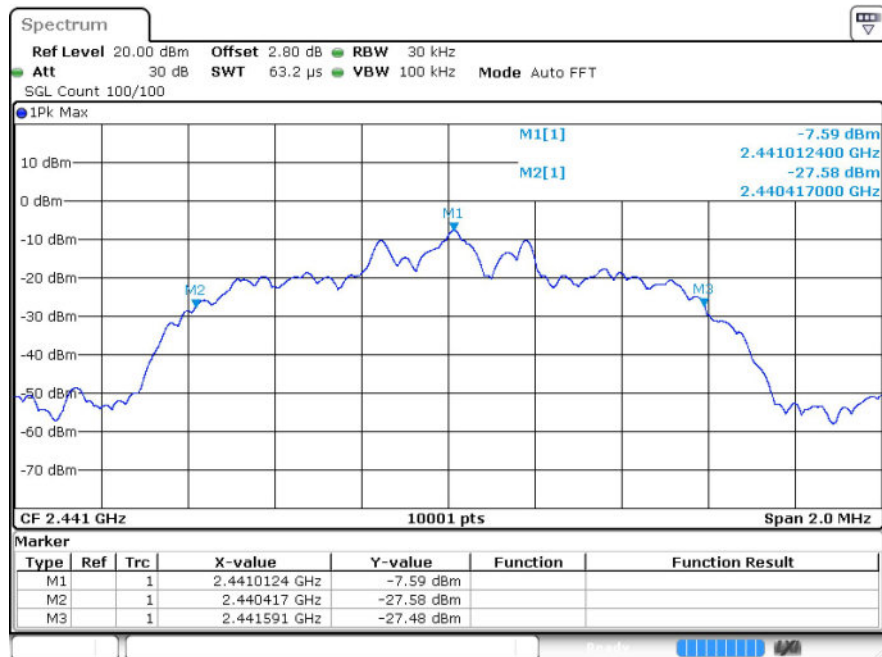
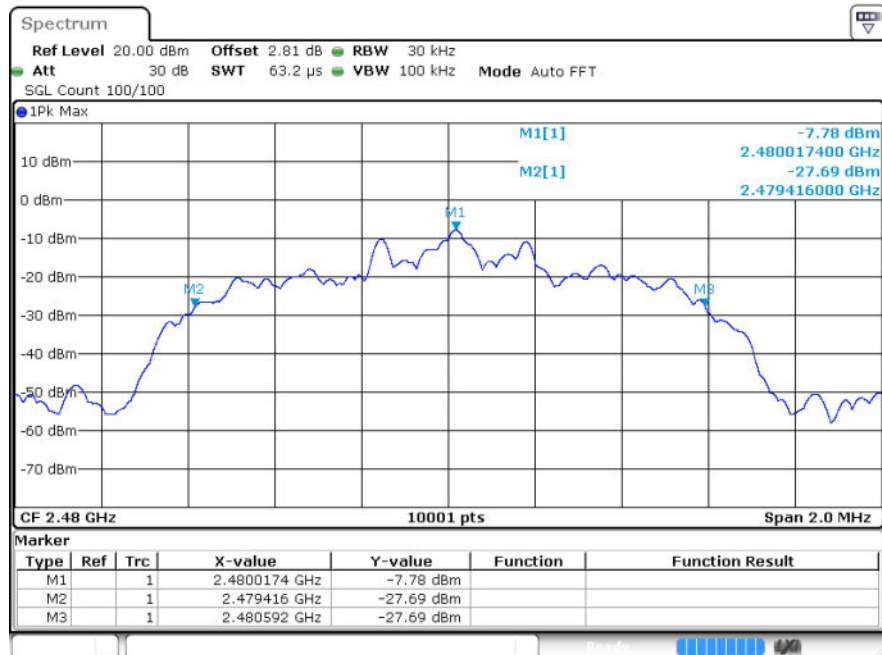
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.879	Not Specified	Pass
	MCH	0.808	Not Specified	Pass
	HCH	0.881	Not Specified	Pass
$\pi/4$ DQPSK	LCH	1.136	Not Specified	Pass
	MCH	1.174	Not Specified	Pass
	HCH	1.177	Not Specified	Pass

3.2 Test Graphs



GFSK/HCH


 $\pi/4$ DQPSK/LCH


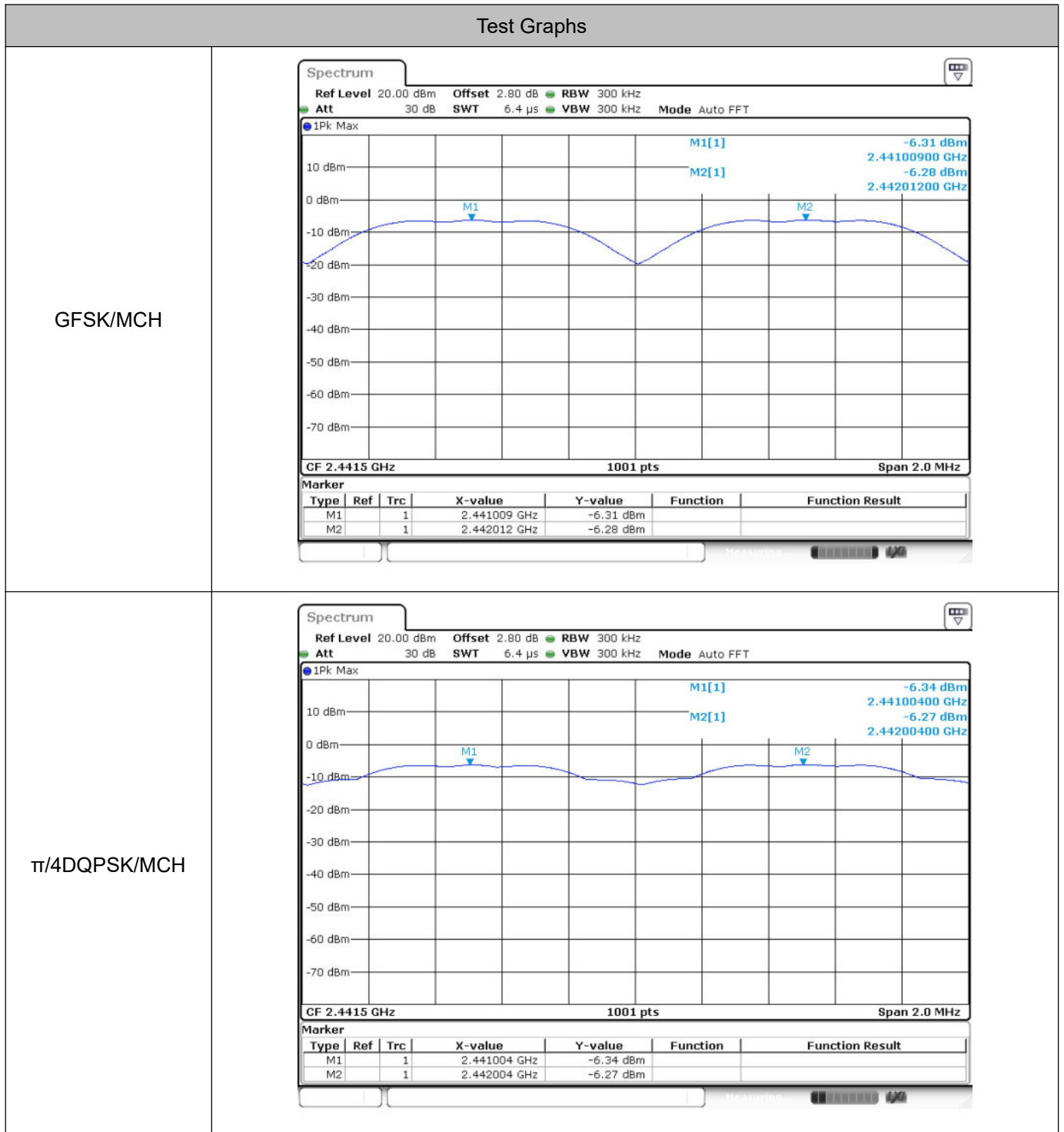
$\pi/4$ DQPSK/MCH

 $\pi/4$ DQPSK/HCH


4 Carrier Frequency Separation

4.1 Test Result

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	1.003	0.539	Pass
$\pi/4$ DQPSK	MCH	1	0.783	Pass

4.2 Test Graphs

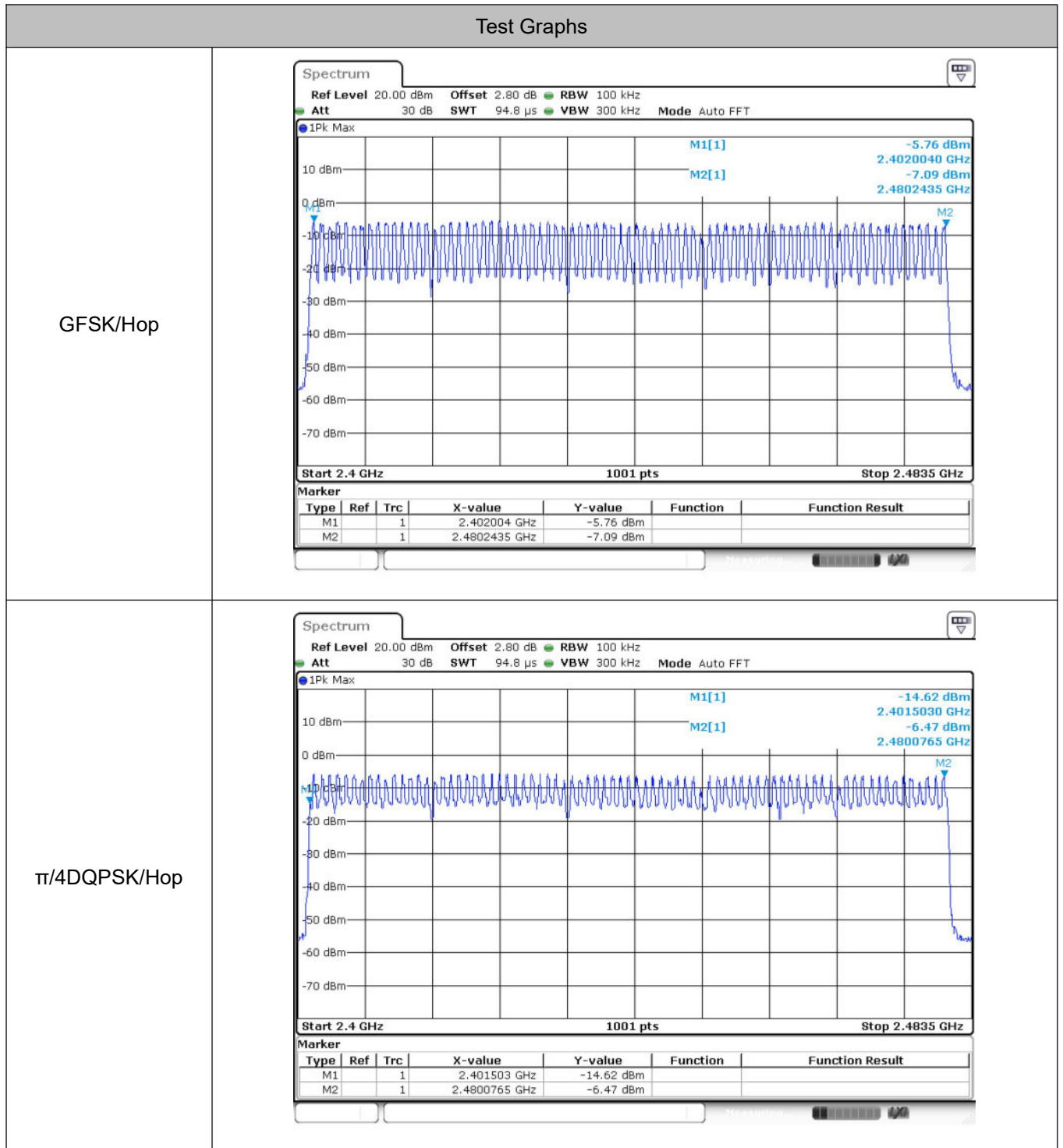


5 Hopping Channel Number

5.1 Test Result

Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	≥ 15	PASS
$\pi/4$ DQPSK	Hop	79	≥ 15	PASS

5.2 Test Graphs

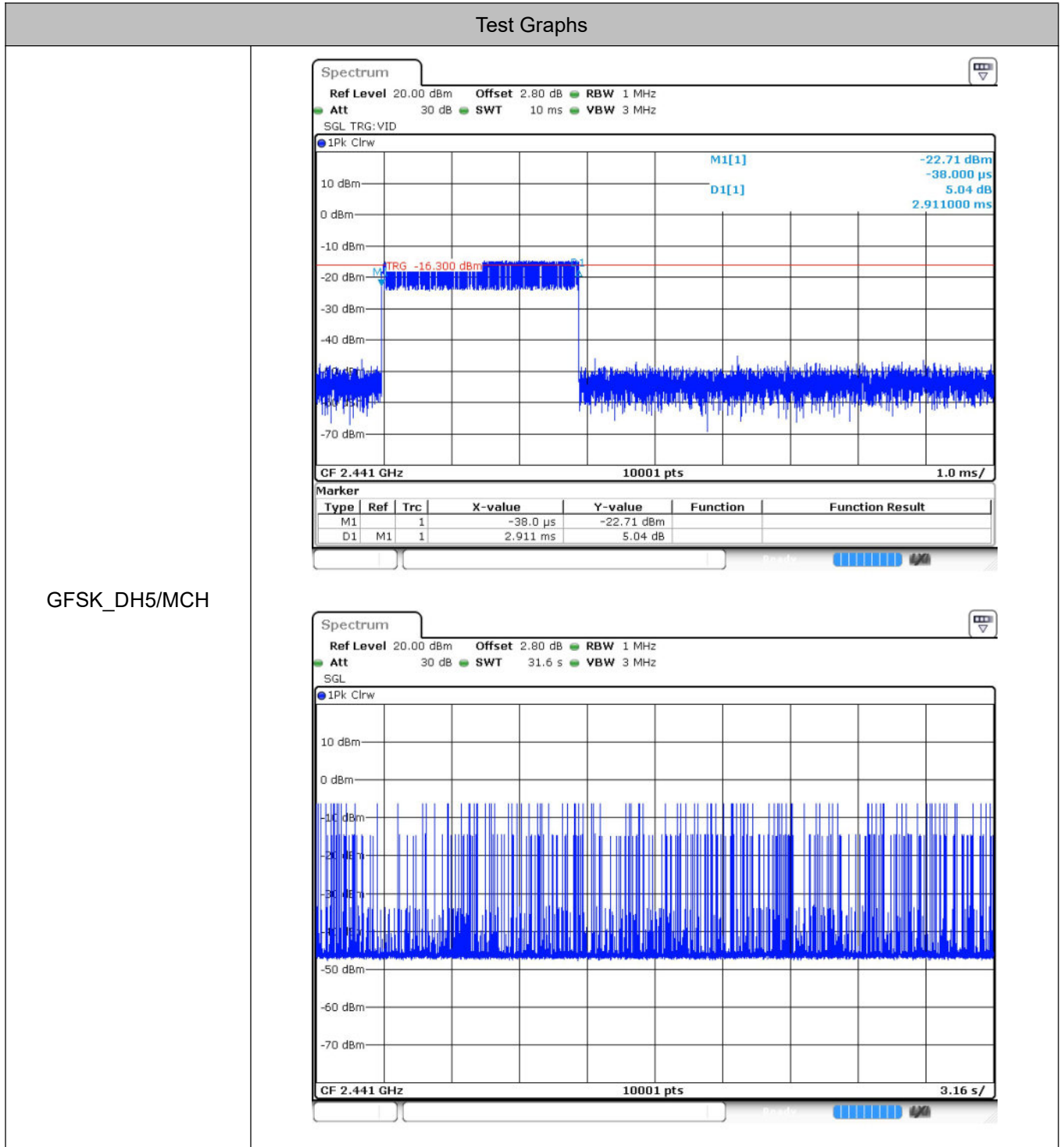


6 Dwell Time

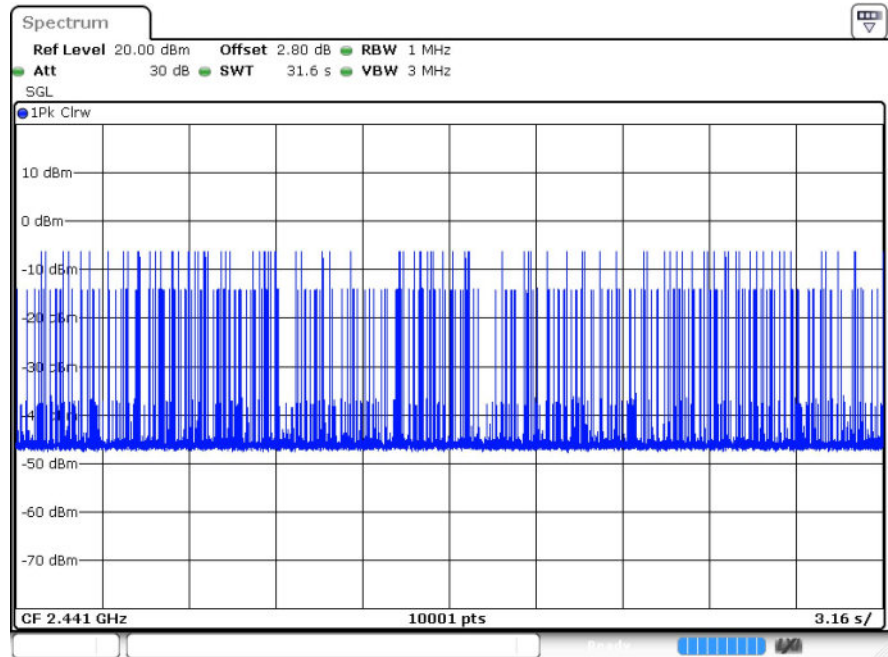
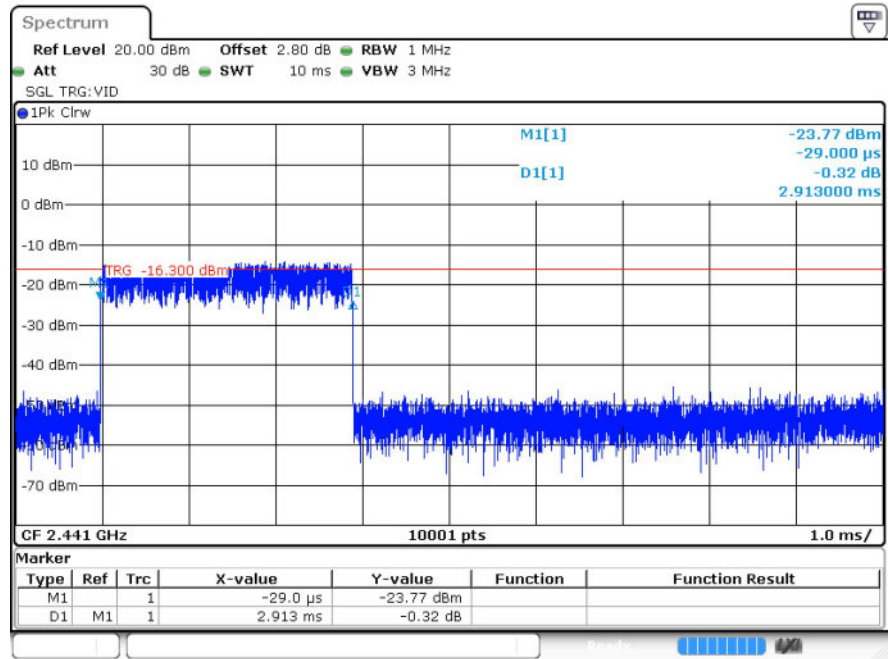
6.1 Test Result

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Limit [s]	Verdict
GFSK	DH5	MCH	2.911	112	326.032	0.4	Pass
$\pi/4$ DQPSK	2DH5	MCH	2.913	94	273.822	0.4	Pass

6.2 Test Graphs



$\pi/4$ DQPSK
_2DH5/MCH

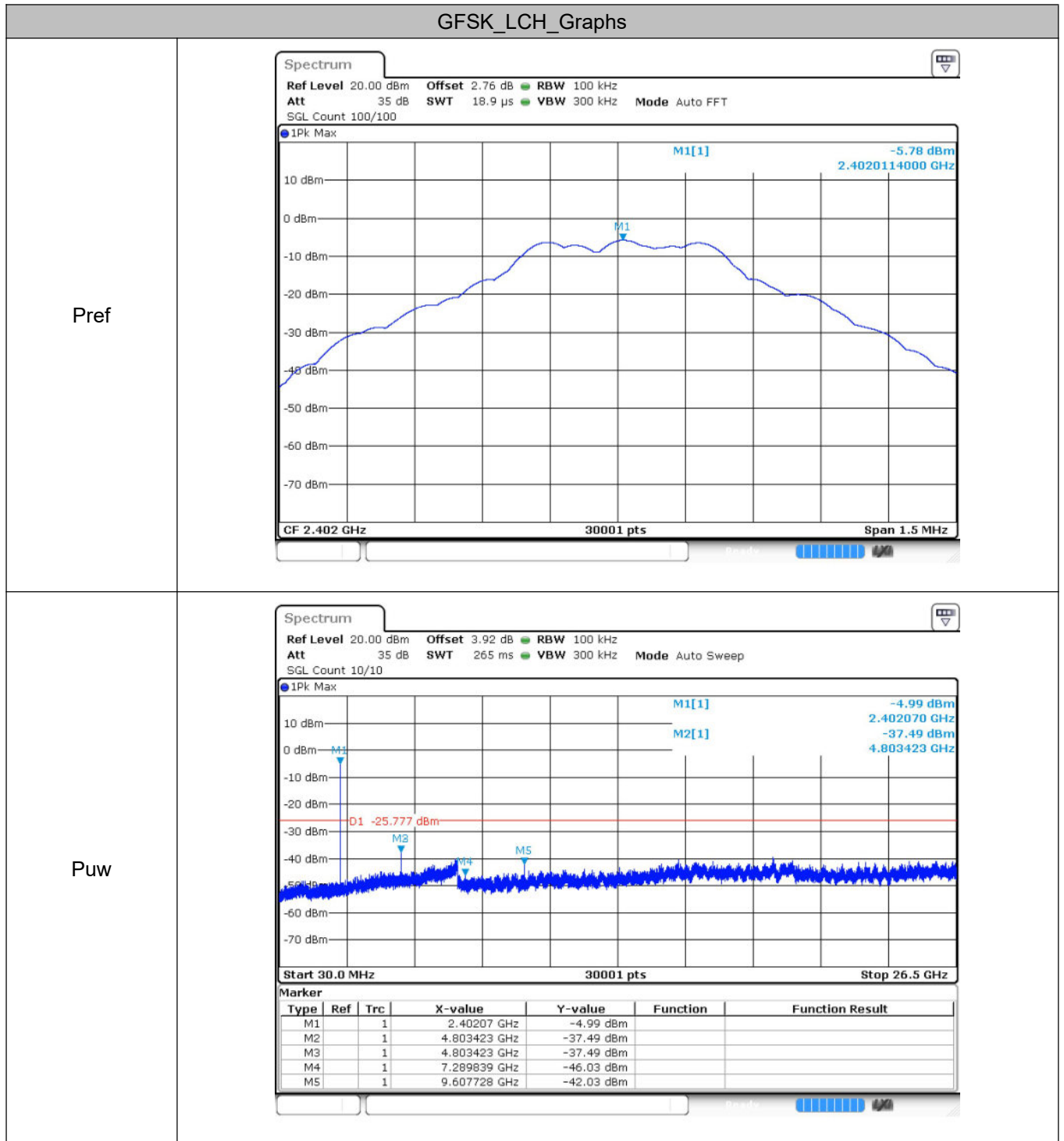


7 RF Conducted Spurious Emissions

7.1 Test Result

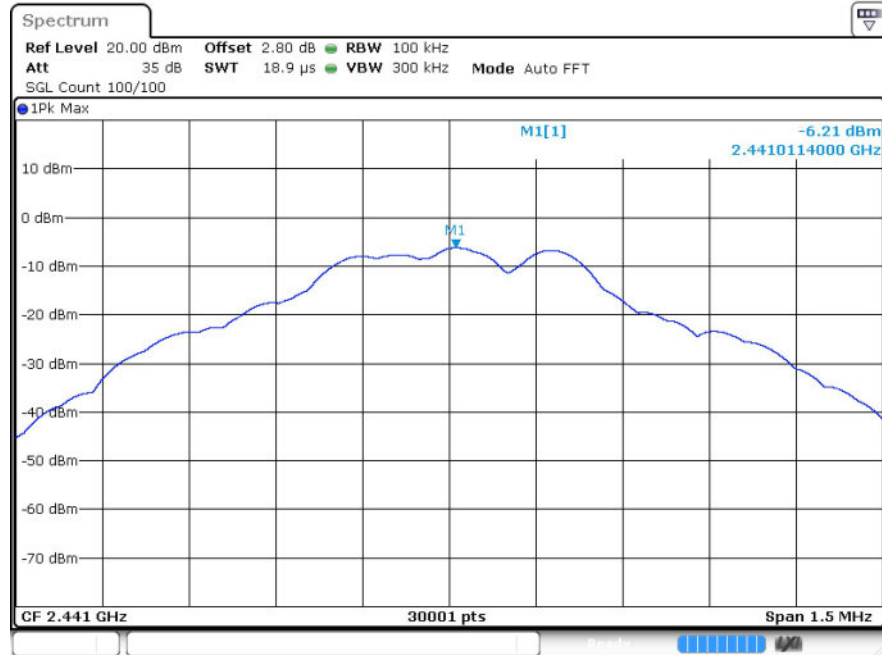
Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-31.71	-20	Pass
	MCH	-32.13	-20	Pass
	HCH	-31.65	-20	Pass
$\pi/4$ DQPSK	LCH	-30.48	-20	Pass
	MCH	-33.62	-20	Pass
	HCH	-30.13	-20	Pass

7.2 Test Graphs

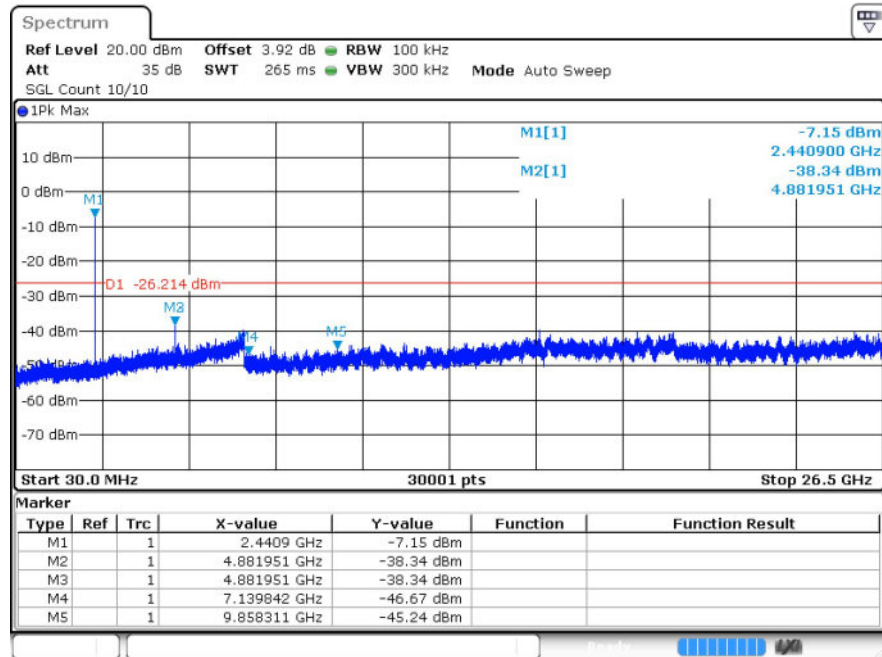


GFSK_MCH_Graphs

Pref

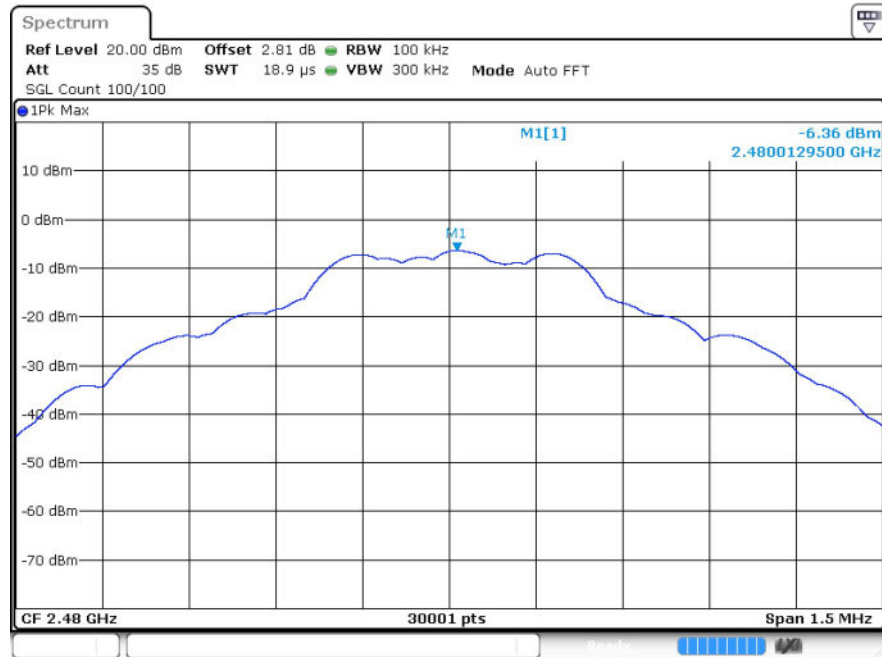


Puw

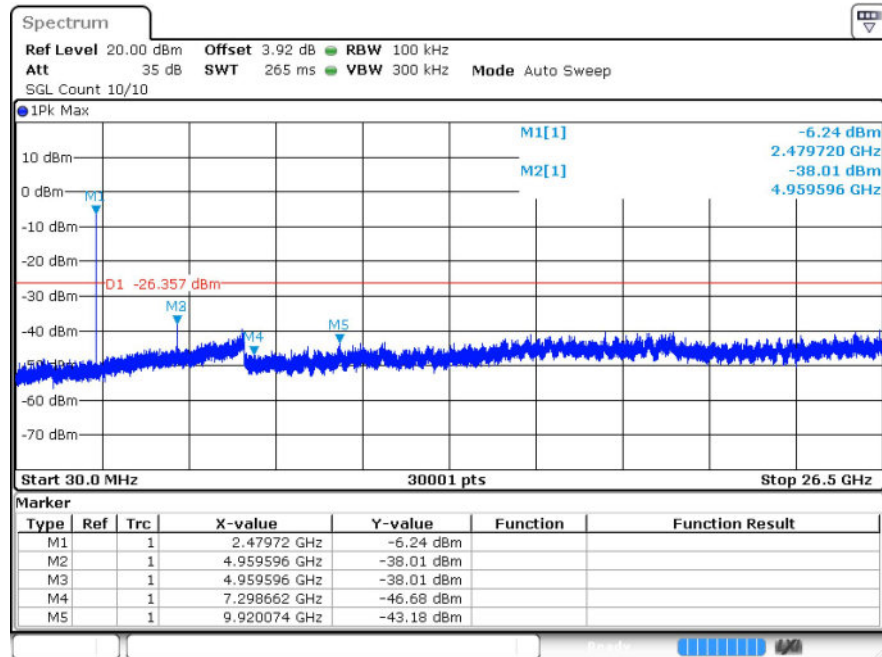


GFSK_HCH_Graphs

Pref

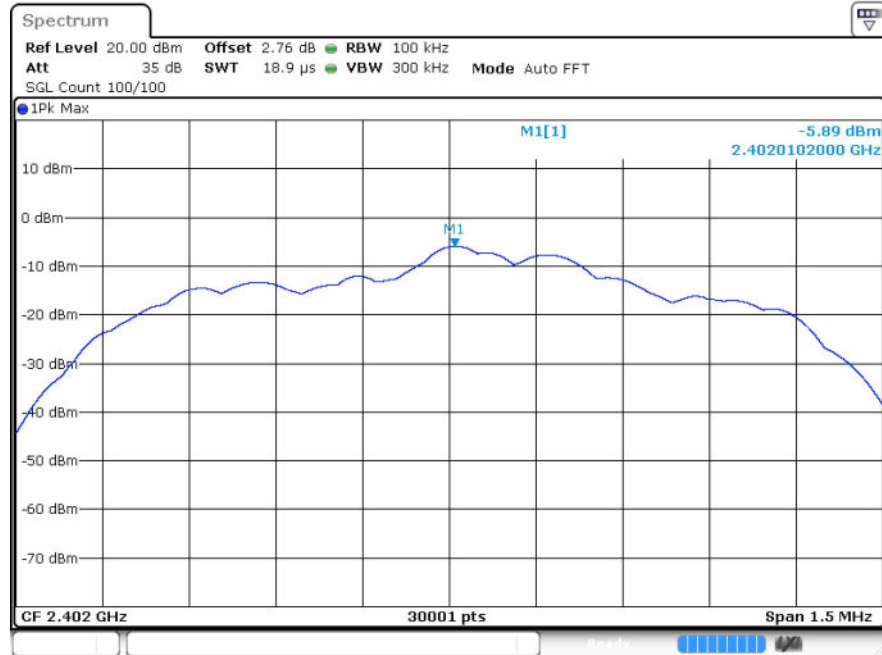


Puw

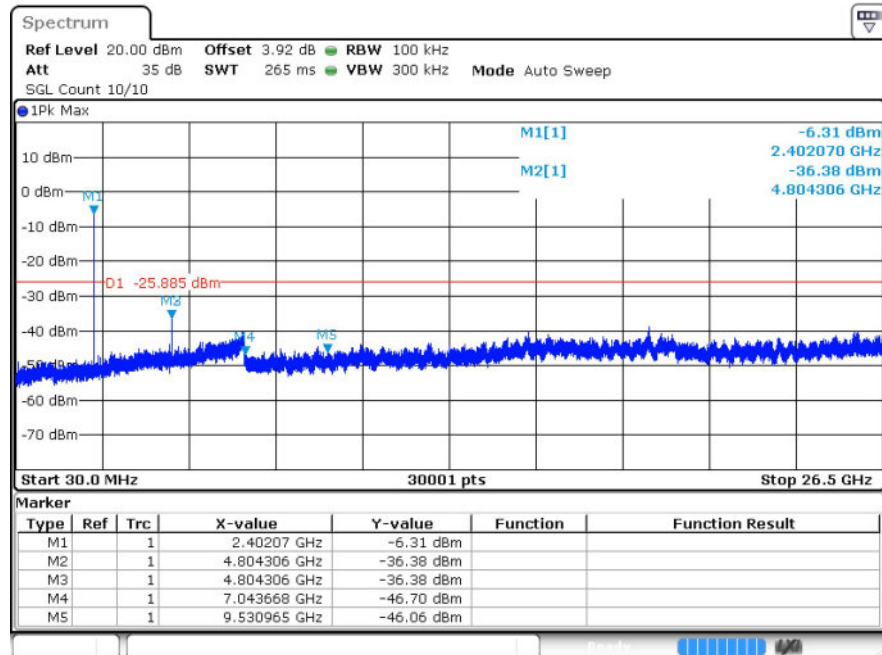


$\pi/4$ DQPSK_LCH_Graphs

Pref

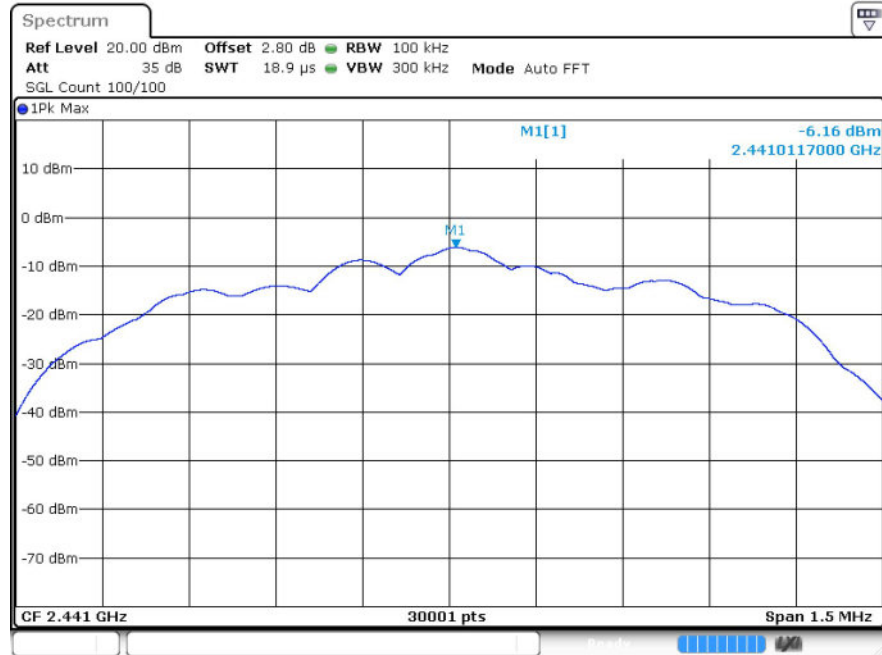


Puw

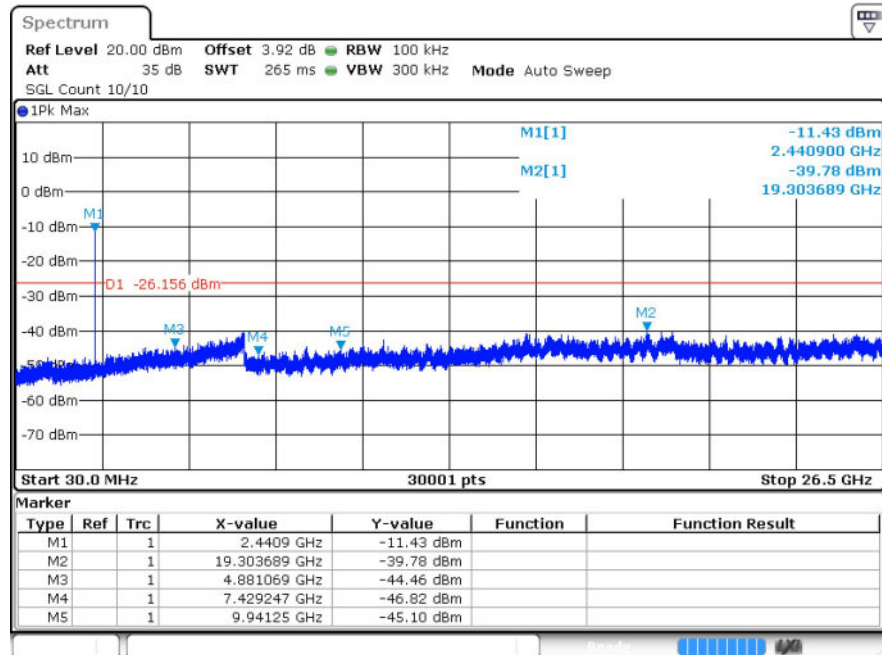


π /4DQPSK_MCH_Graphs

Pref

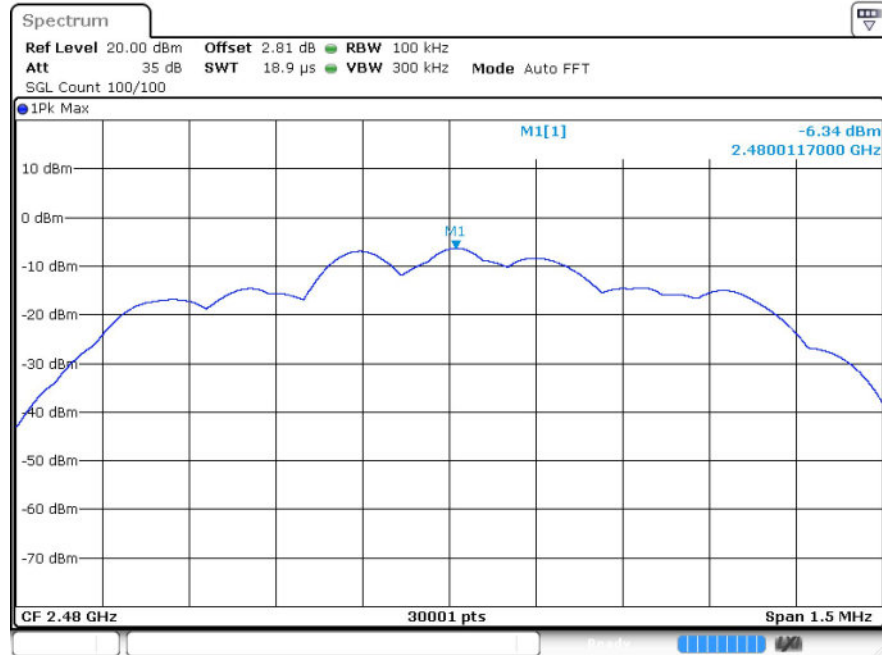


Puw

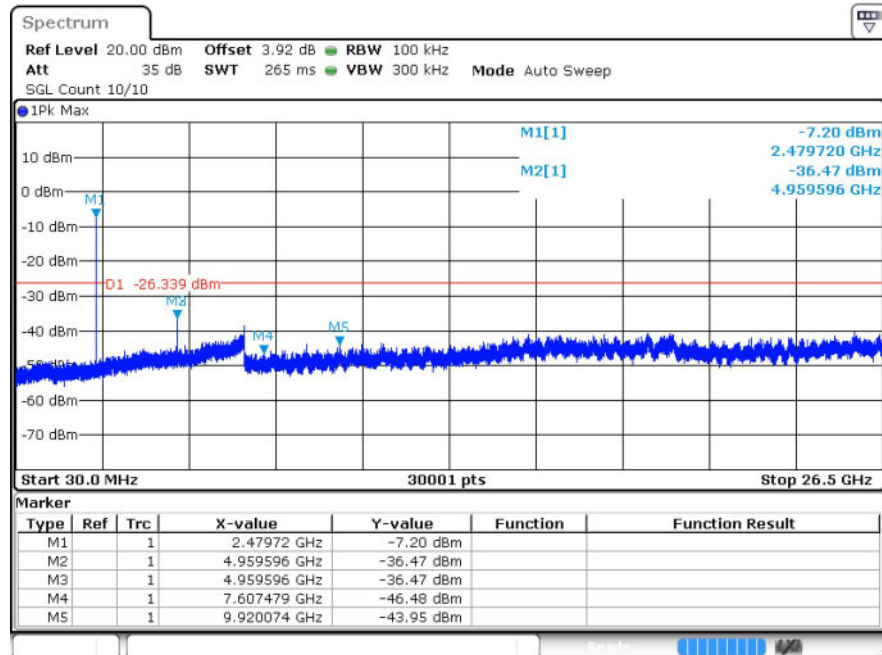


$\pi/4$ DQPSK_HCH_Graphs

Pref



Puw

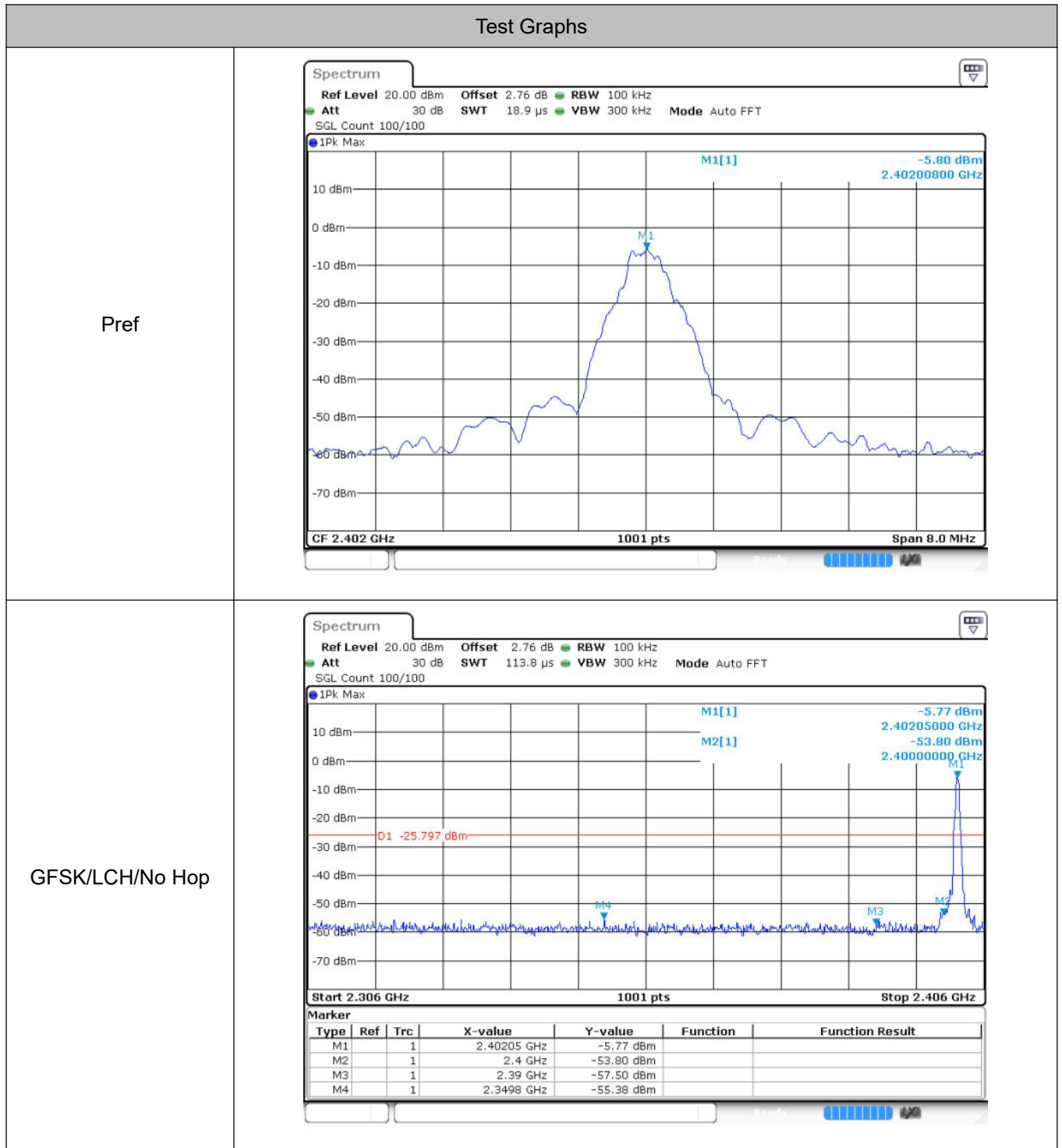


8 Band-edge for RF Conducted Emissions

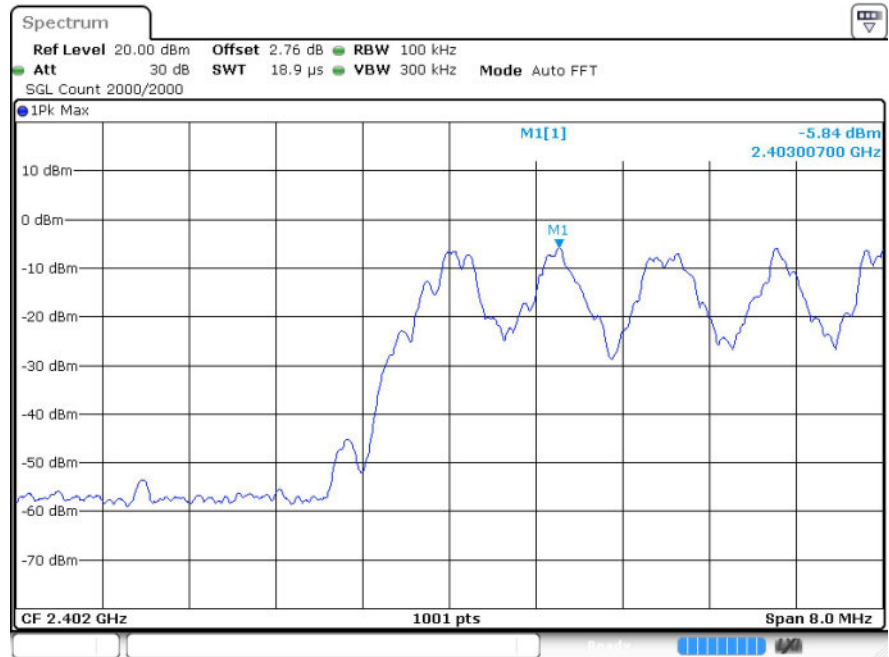
8.1 Test Result

Mode	Channel	Carrier Frequency [MHz]	Frequency Hopping	Max Spurious Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	2402	Off	-49.58	-20	Pass
			On	-49	-20	Pass
	HCH	2480	Off	-48.62	-20	Pass
			On	-47.75	-20	Pass
$\pi/4$ DQPSK	LCH	2402	Off	-49.75	-20	Pass
			On	-48.47	-20	Pass
	HCH	2480	Off	-48.27	-20	Pass
			On	-48.3	-20	Pass

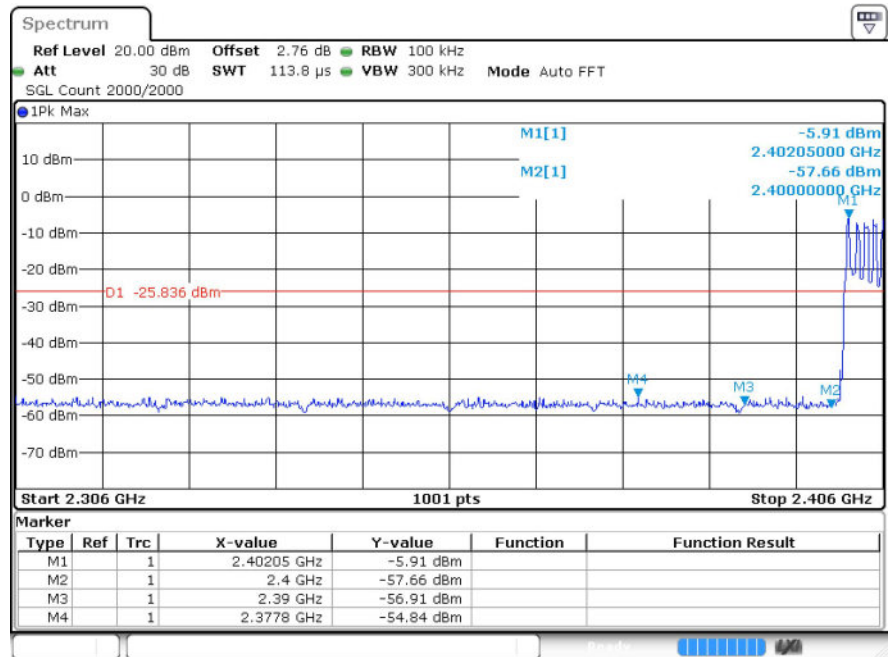
8.2 Test Graphs



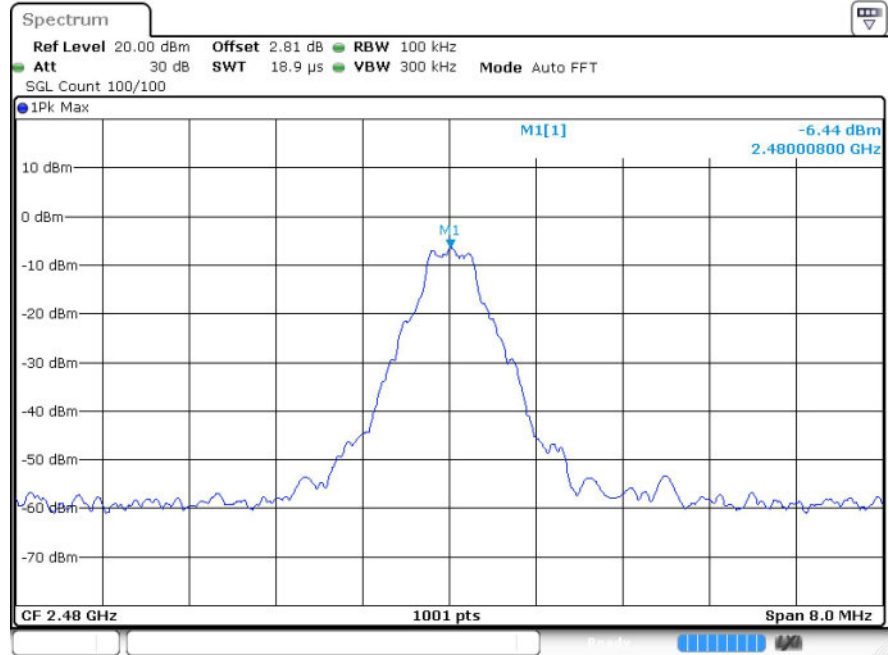
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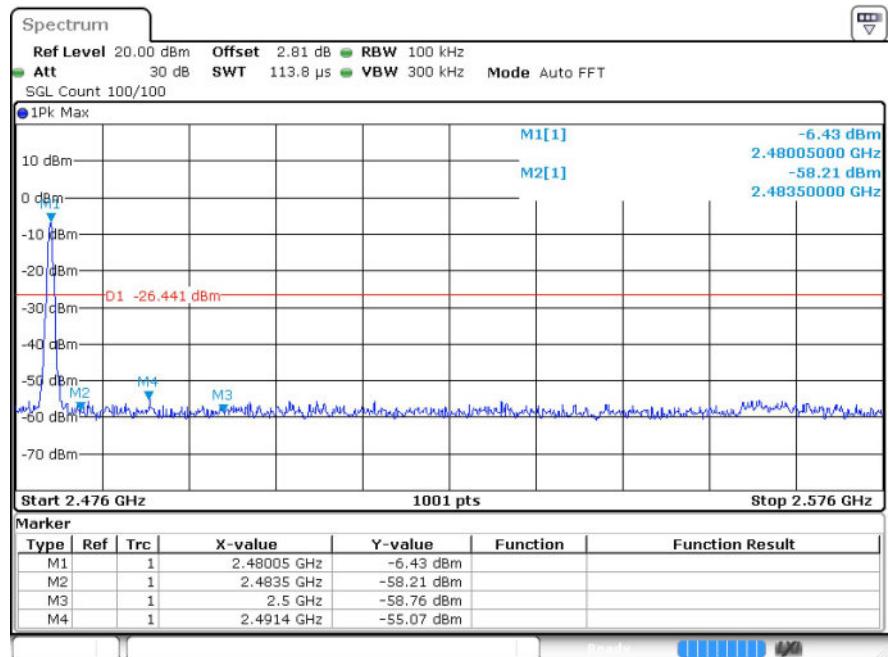
GFSK/LCH/Hop



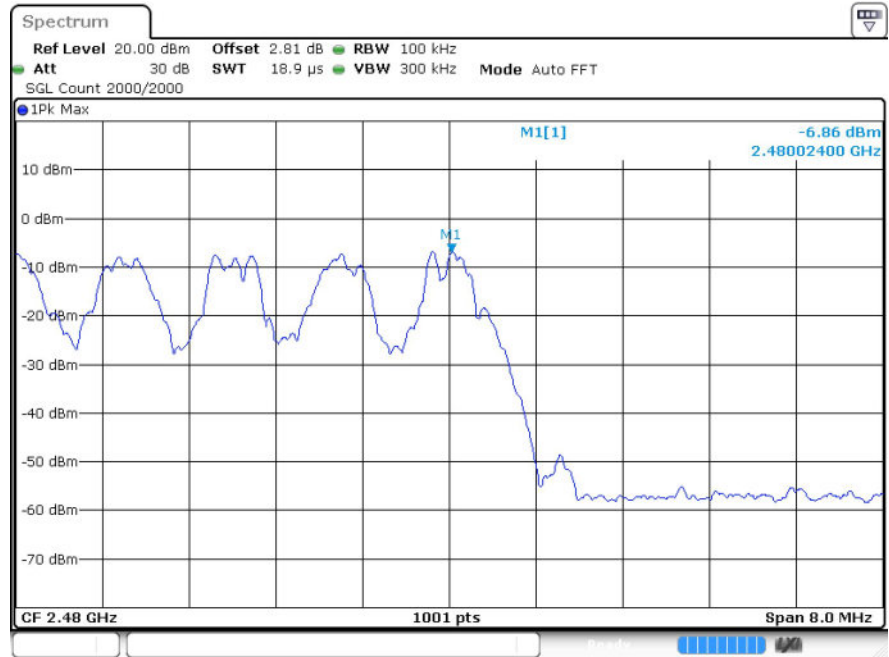
Ref



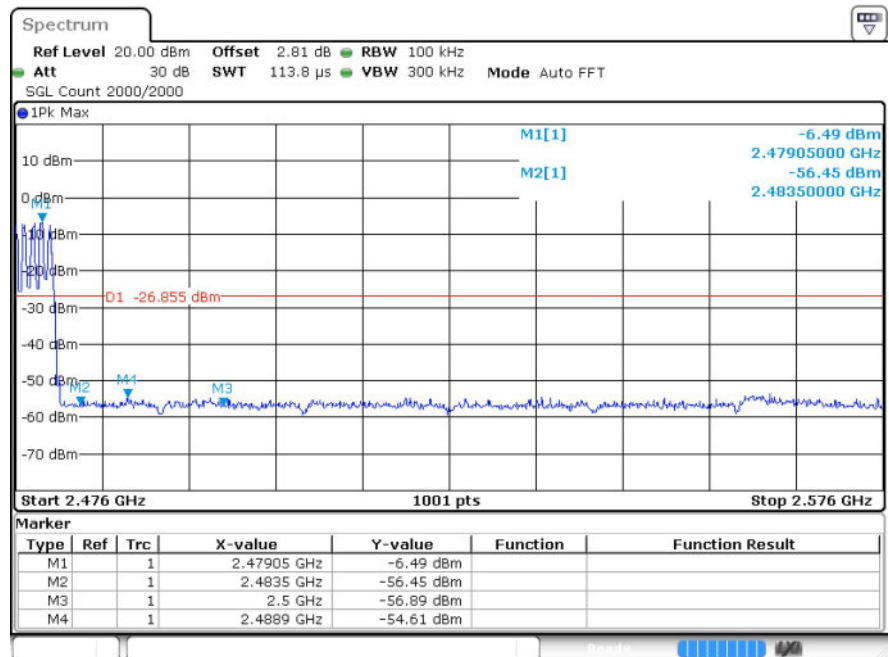
GFSK/HCH/No Hop



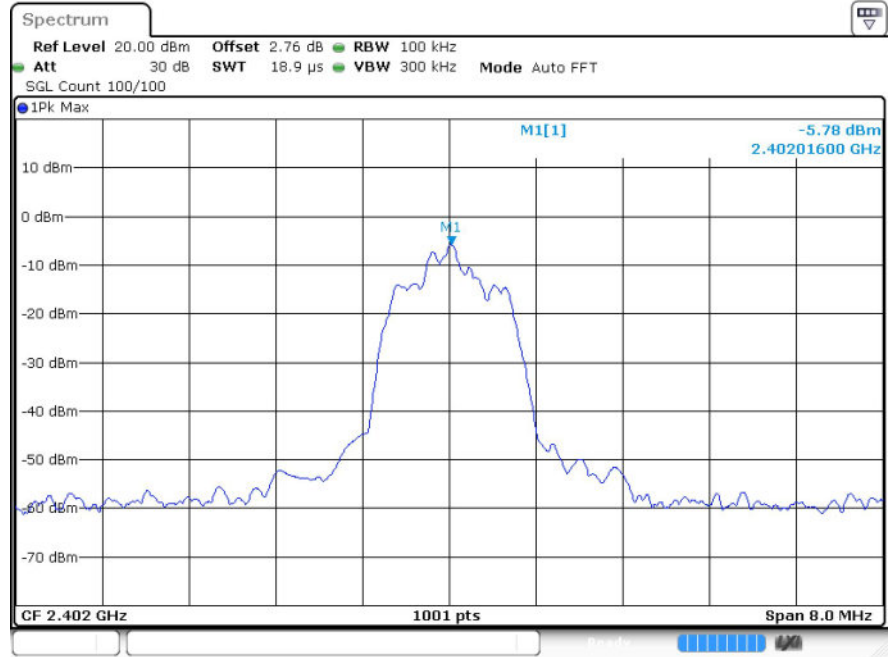
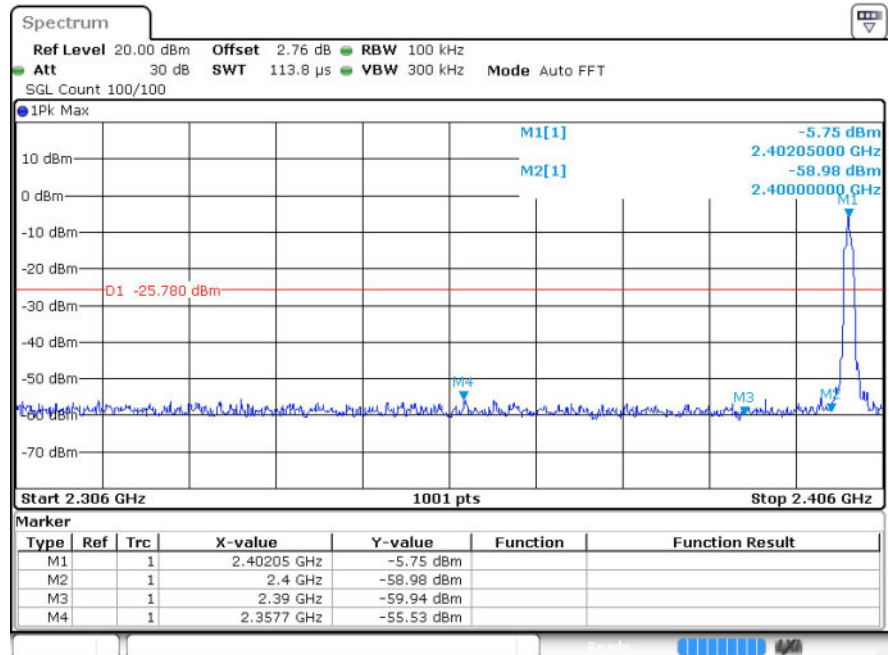
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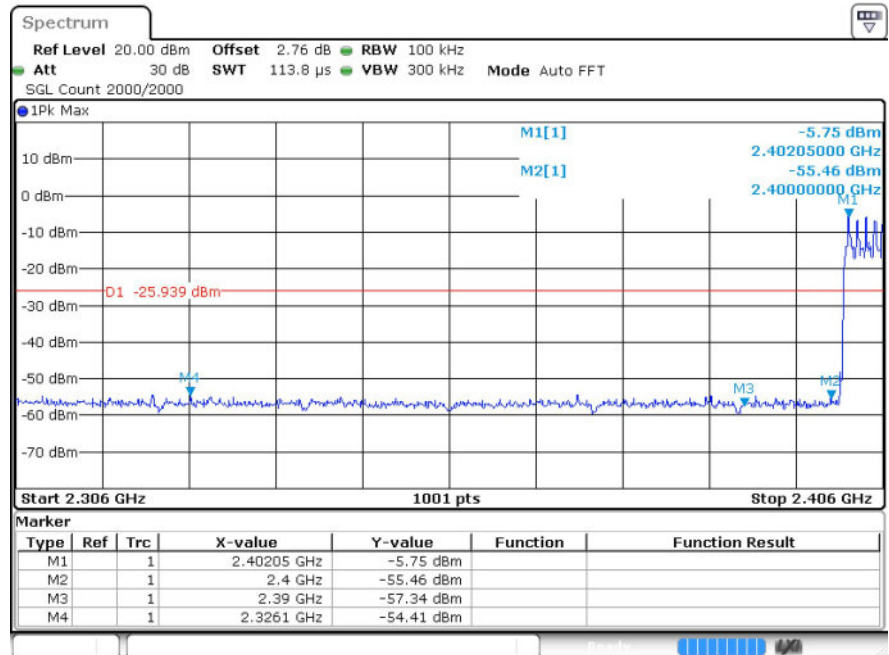
GFSK/HCH/Hop



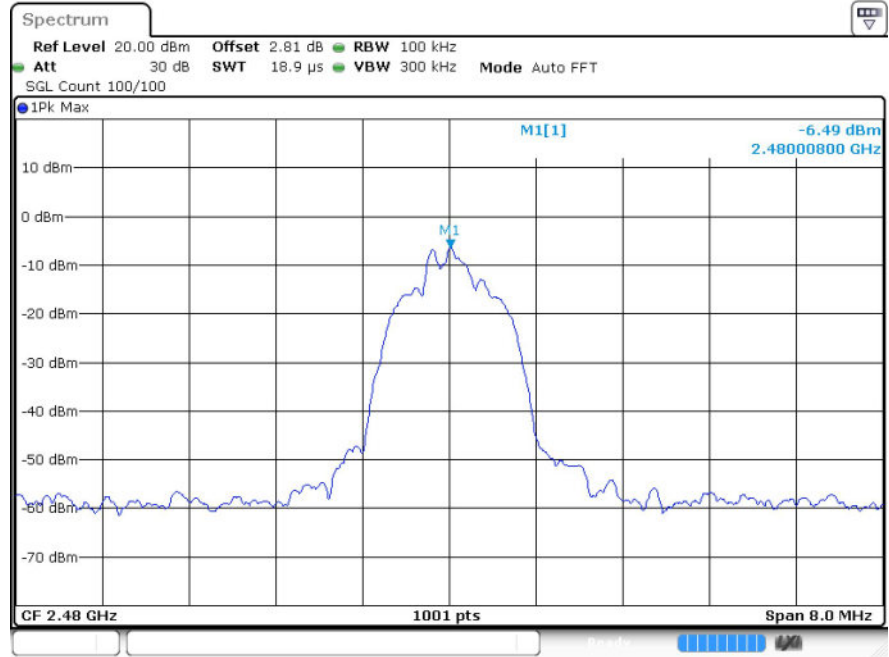
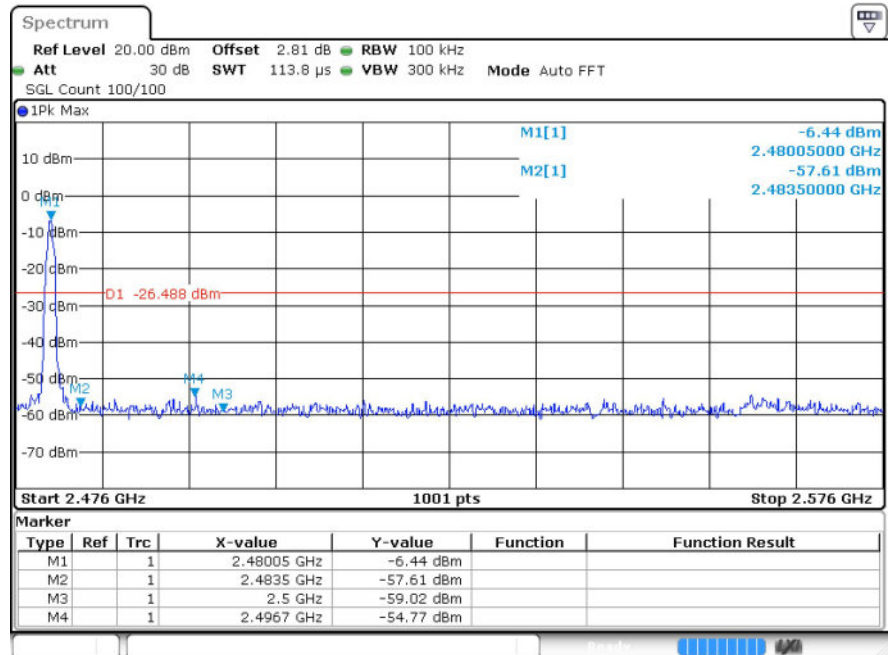
Ref


 $\pi/4$ DQPSK/LCH/No
Hop


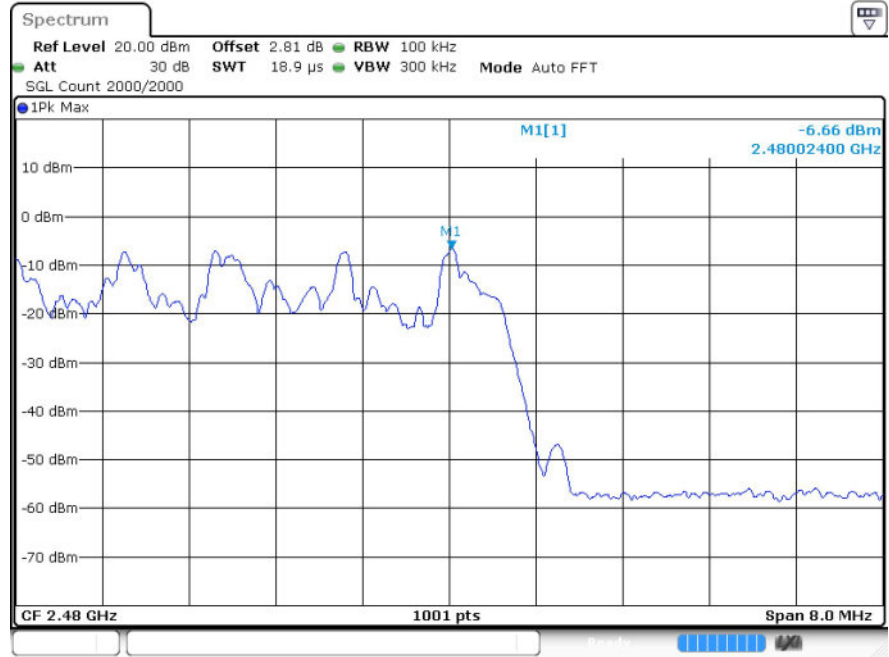
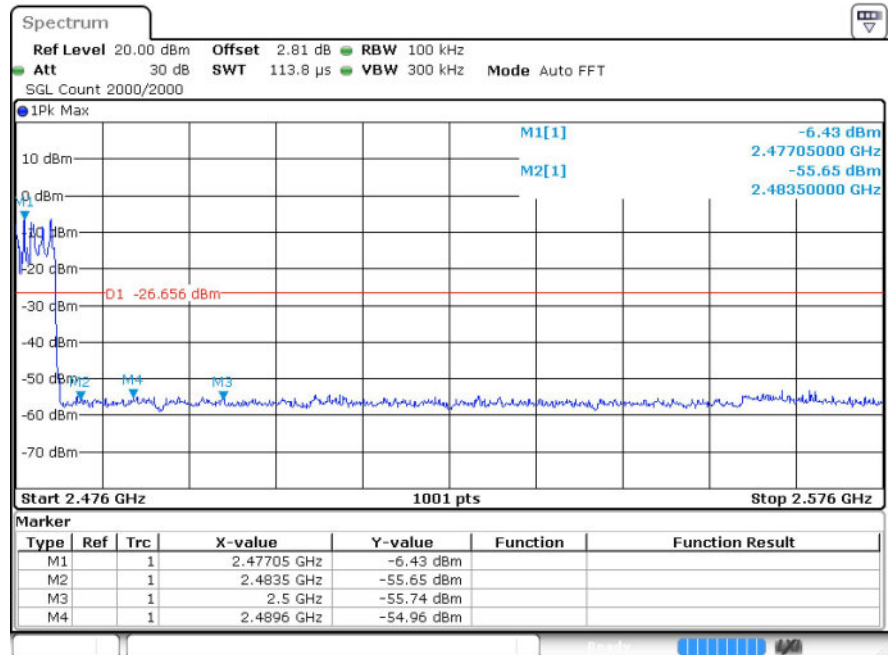
Ref


 $\pi/4$ DQPSK/LCH/Hop


Ref


 $\pi/4$ DQPSK/HCH/No Hop


Ref


 $\pi/4$ DQPSK/HCH/Hop


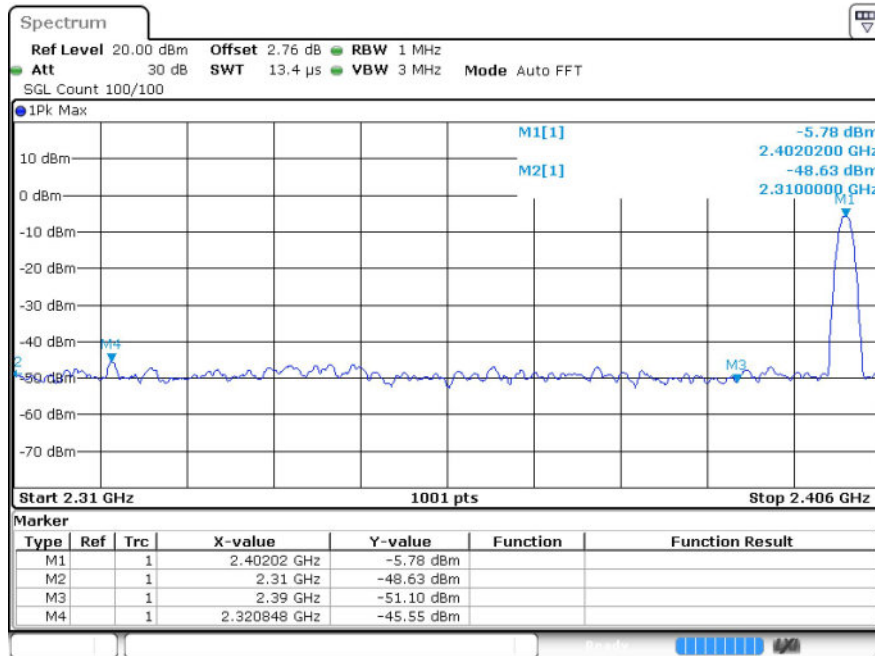
9 Restrict-band band-edge measurements

9.1 Test Result

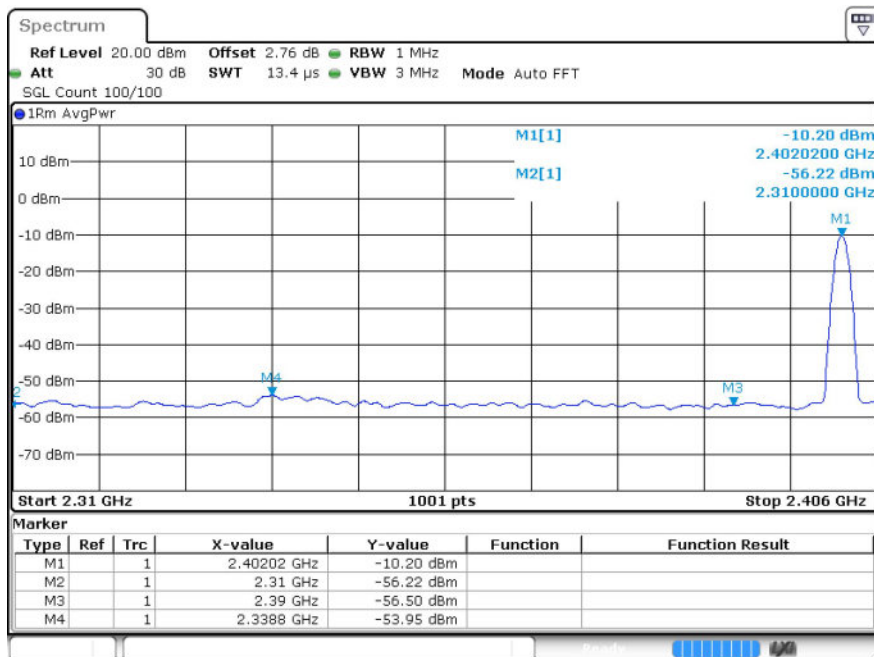
Test Mode	Hopping	Freq.	Power [dBm]	Gain	Duty Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-48.63	2	-	48.63	PEAK	74	Pass
	Off	2310.0	-56.22	2	4.74	45.78	AV	54	Pass
	Off	2320.848	-45.55	2	-	51.71	PEAK	74	Pass
	Off	2338.8	-53.94	2	4.74	48.06	AV	54	Pass
	Off	2390.0	-51.1	2	-	46.16	PEAK	74	Pass
	Off	2390.0	-56.5	2	4.74	45.5	AV	54	Pass
	Off	2483.5	-49.37	2	-	47.89	PEAK	74	Pass
	Off	2483.5	-56.16	2	4.74	45.84	AV	54	Pass
	Off	2499.28	-46.96	2	-	50.3	PEAK	74	Pass
	Off	2490.04	-55.49	2	4.74	46.51	AV	54	Pass
	Off	2500.0	-49.92	2	-	47.34	PEAK	74	Pass
	Off	2500.0	-56.2	2	4.74	45.8	AV	54	Pass
$\pi/4$ DQPSK	Off	2310.0	-49.86	2	-	47.4	PEAK	74	Pass
	Off	2310.0	-55.83	2	4.63	46.06	AV	54	Pass
	Off	2338.512	-45.49	2	-	51.77	PEAK	74	Pass
	Off	2340.72	-53.79	2	4.63	48.1	AV	54	Pass
	Off	2390.0	-48.92	2	-	48.34	PEAK	74	Pass
	Off	2390.0	-56.14	2	4.63	45.75	AV	54	Pass
	Off	2483.5	-48.58	2	-	48.68	PEAK	74	Pass
	Off	2483.5	-56.03	2	4.63	45.86	AV	54	Pass
	Off	2489.248	-46.1	2	-	51.16	PEAK	74	Pass
	Off	2490.976	-55.5	2	4.63	46.39	AV	54	Pass
	Off	2500.0	-47.52	2	-	49.74	PEAK	74	Pass
	Off	2500.0	-55.53	2	4.63	46.36	AV	54	Pass

9.2 Test Graphs

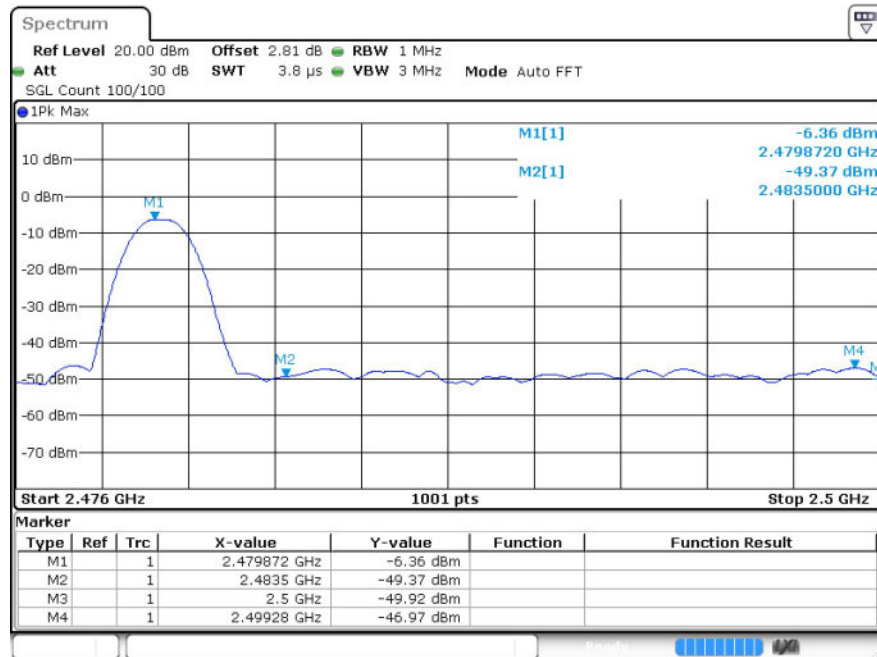
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (Low Channel)



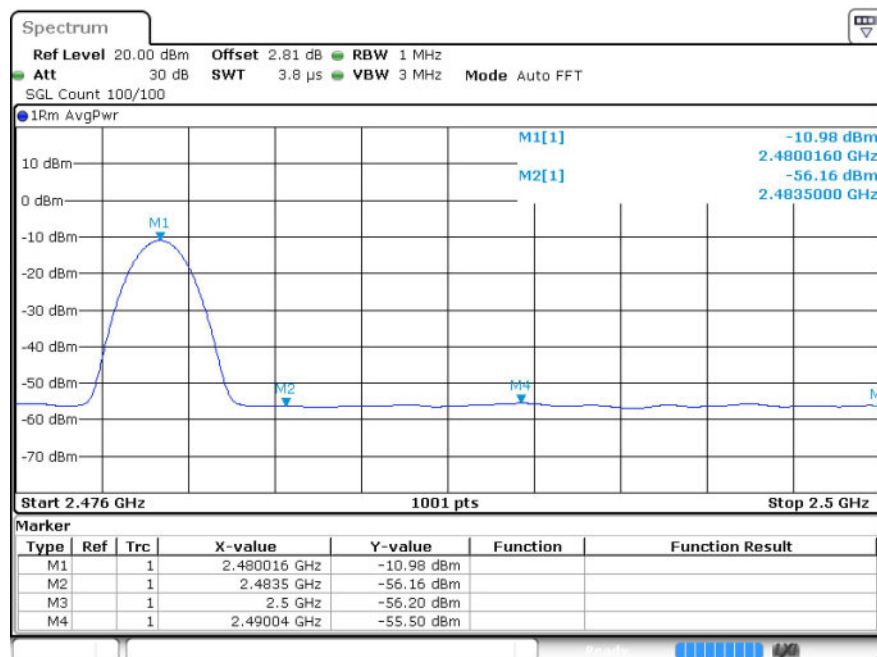
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



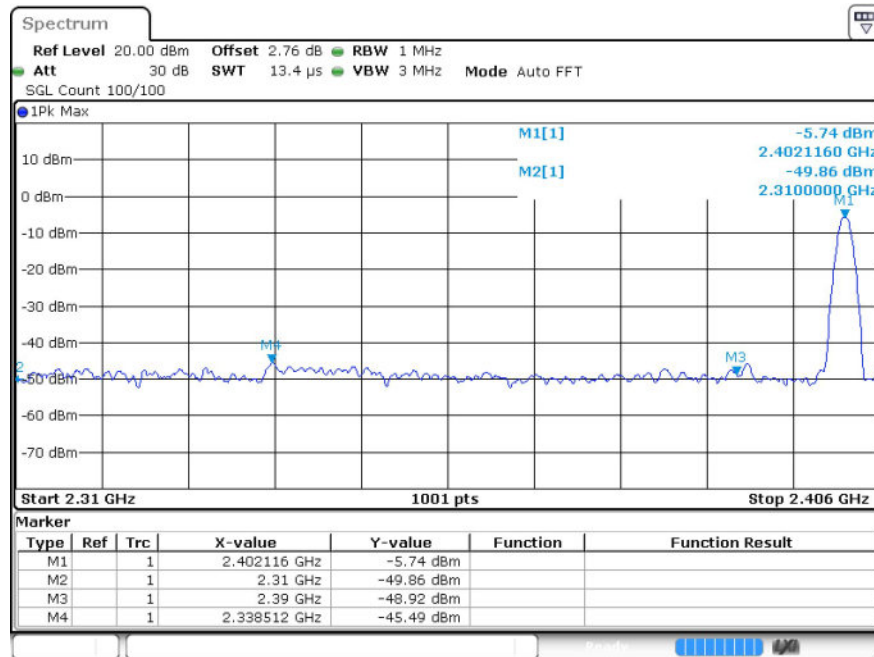
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



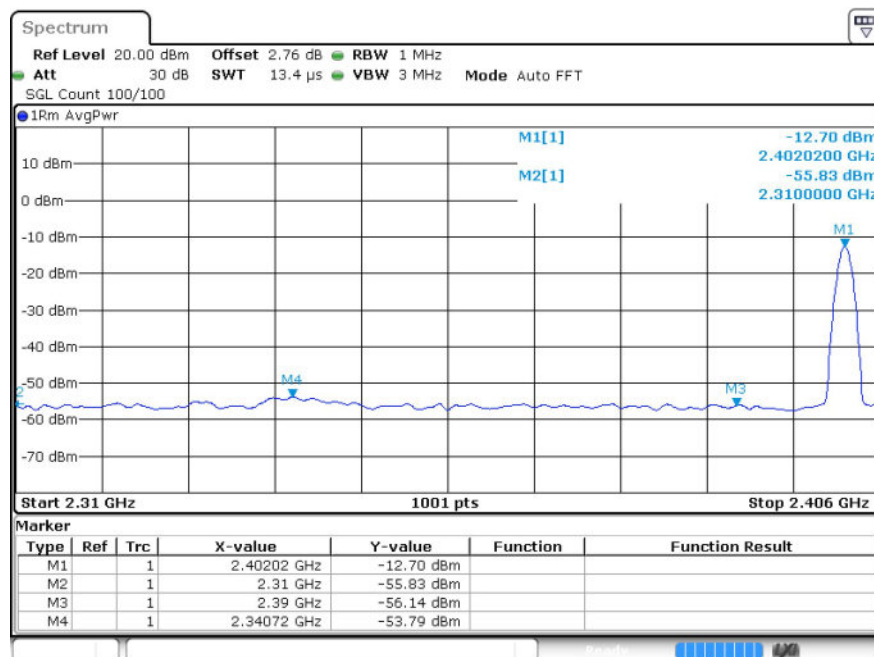
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



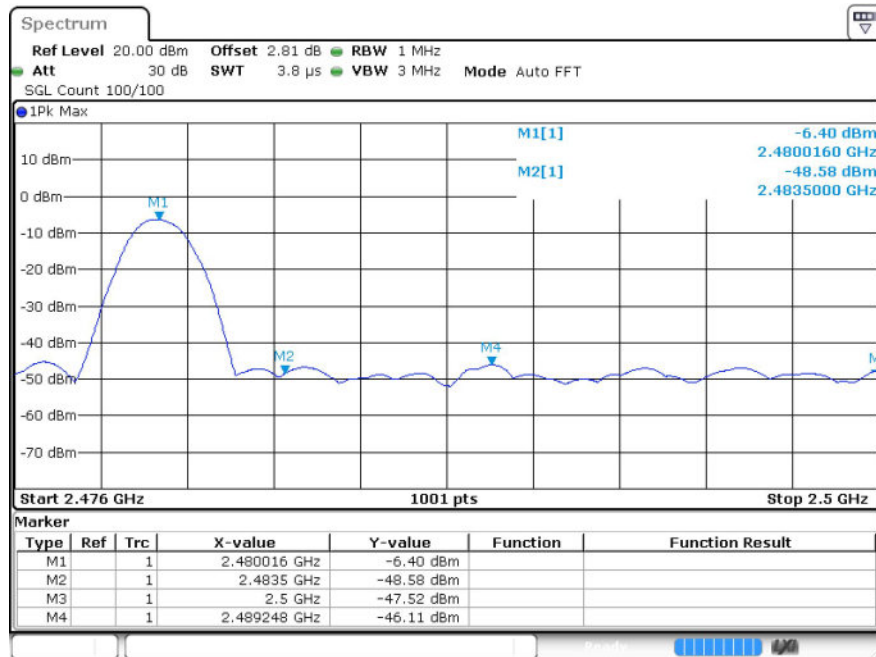
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



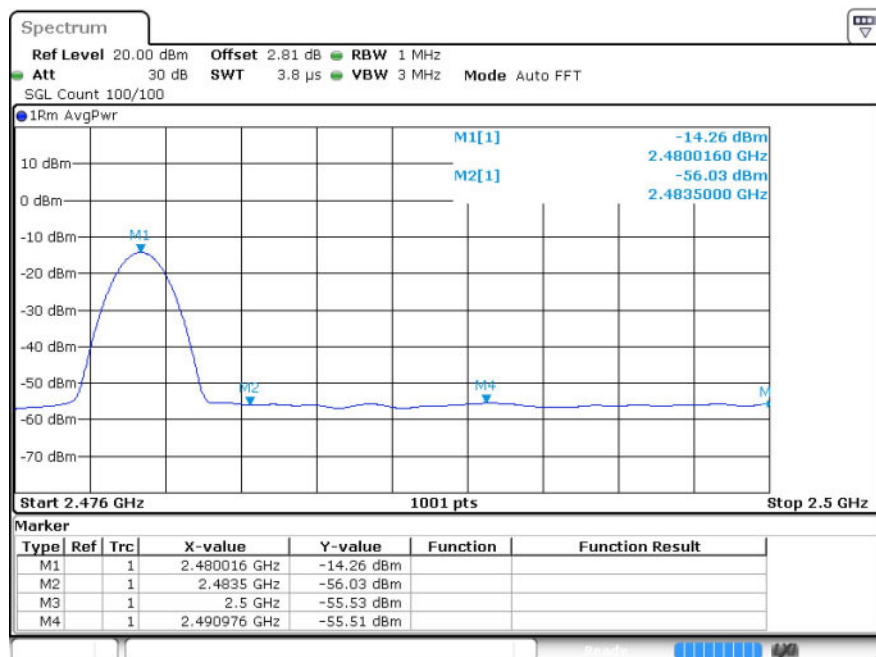
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



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)



---The End---