

Appendix A

RF Test Data for BR_EDR(Conducted Measurement)

Product Name: 2.1CH SOUNDBAR SYSTEM

Trade Mark: N/A

Test Model: D40AH-7M

Environmental Conditions

Temperature:	℃
Relative Humidity:	%
ATM Pressure:	101Kpa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen

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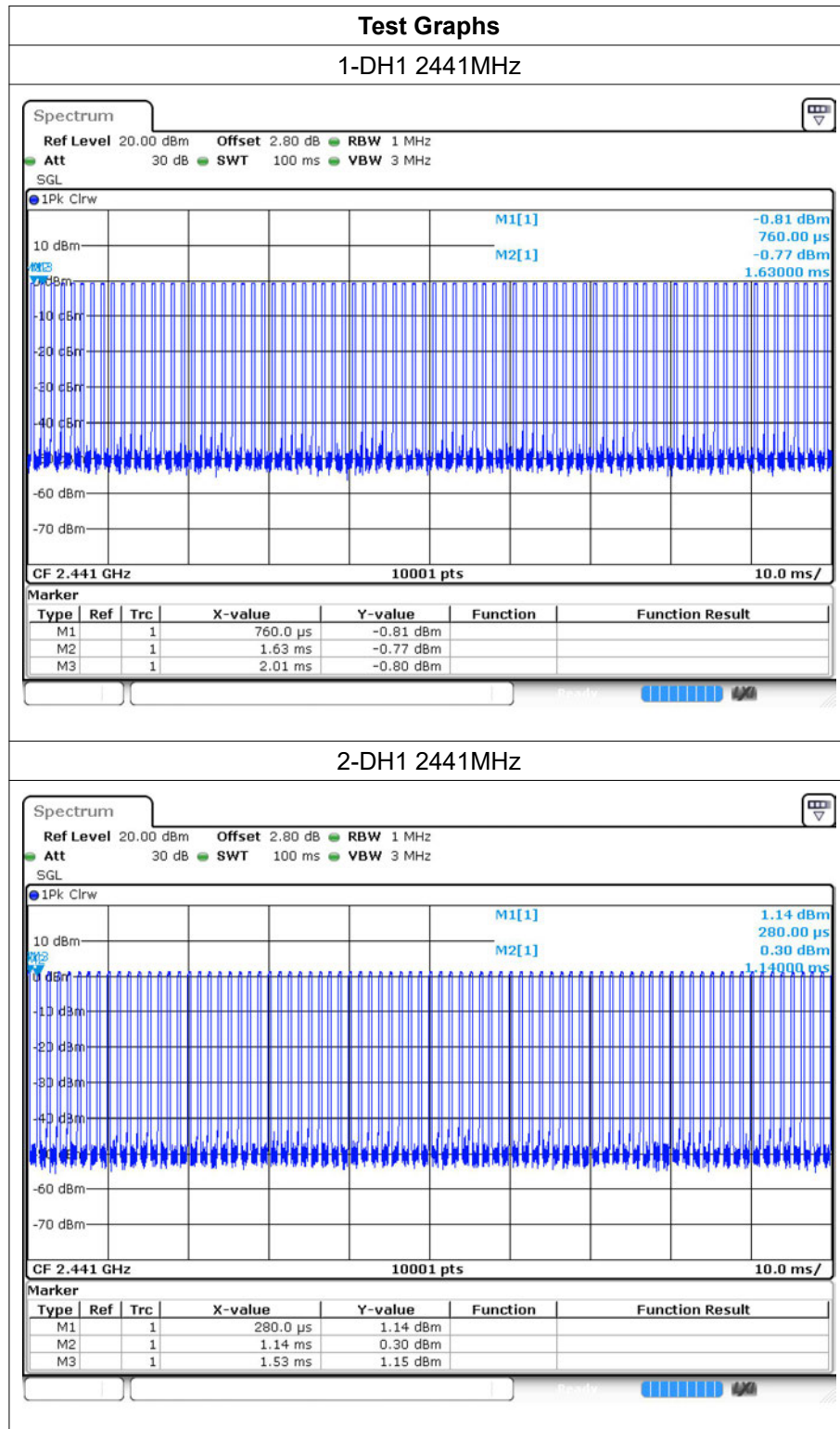
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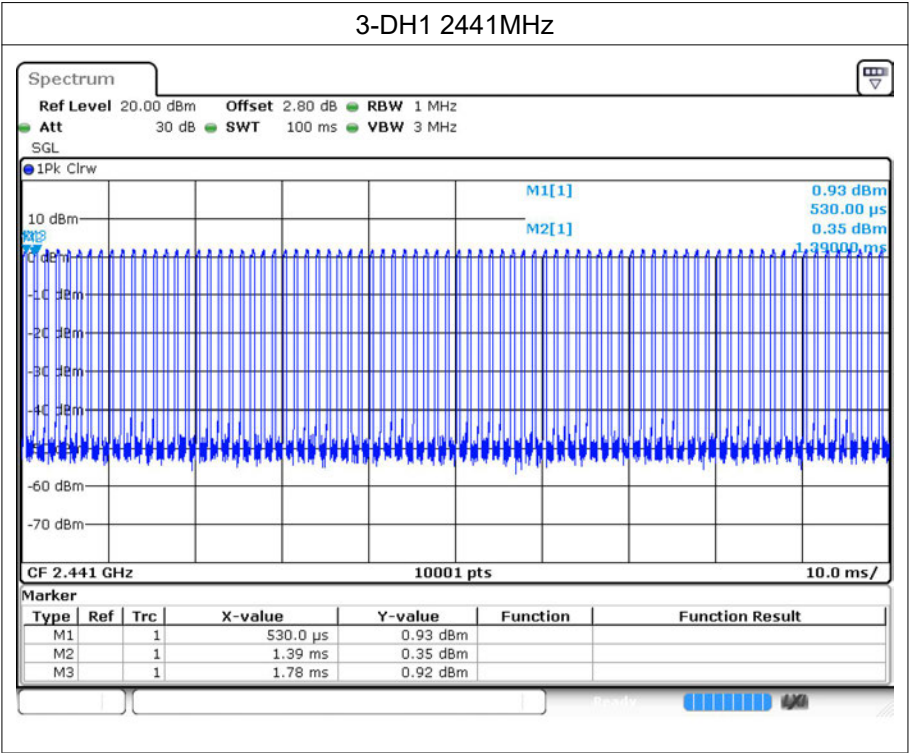
1 .Duty Cycle

1.1 Test Result

Mode	Frequency (MHz)	Duty Cycle (%)	1/T (kHz)
1-DH1	2441	31.2	2.63
2-DH1	2441	32.01	2.56
3-DH1	2441	32	2.56

1.2 Test Graphs



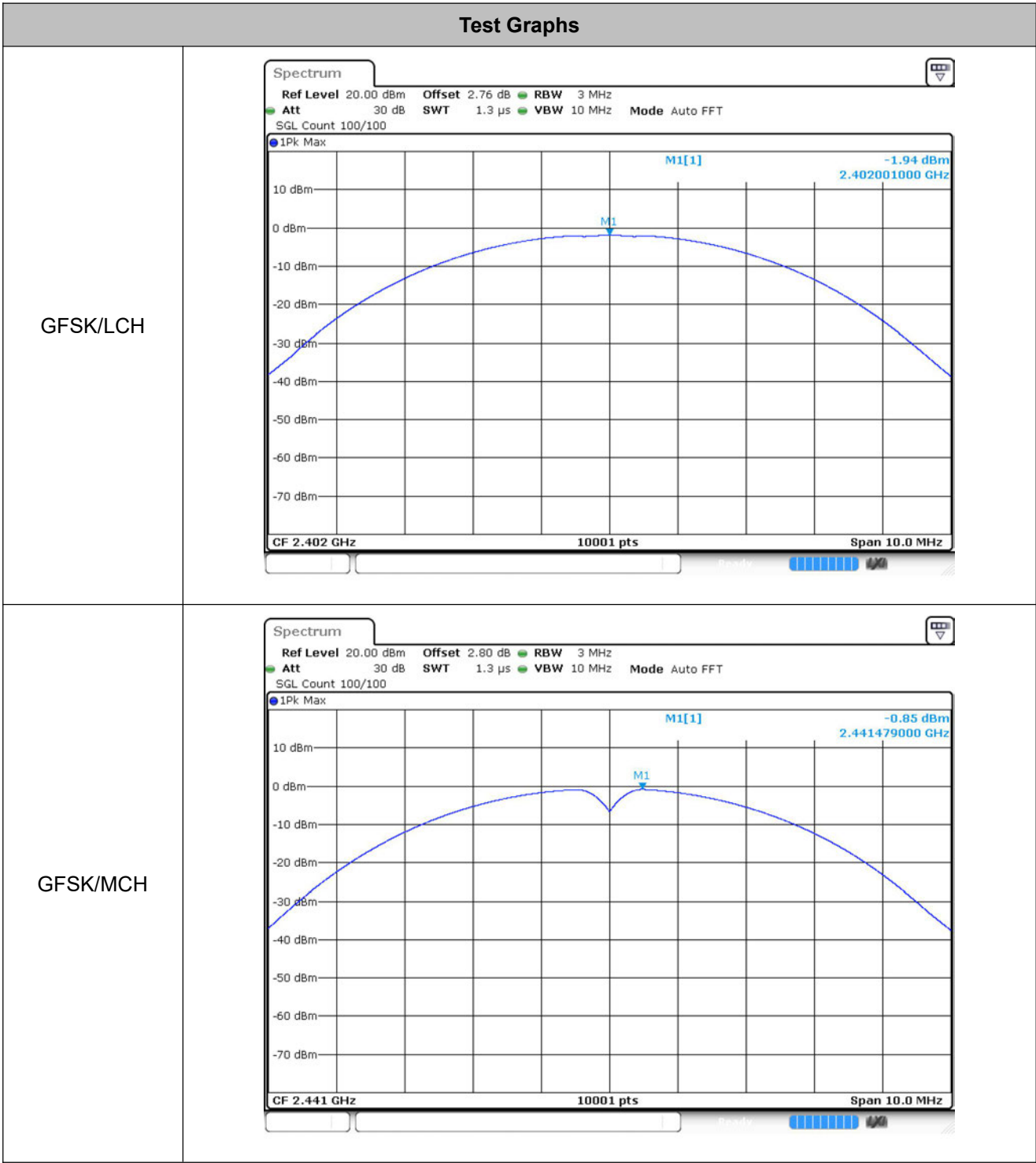


2 Maximum Conducted Peak Output Power

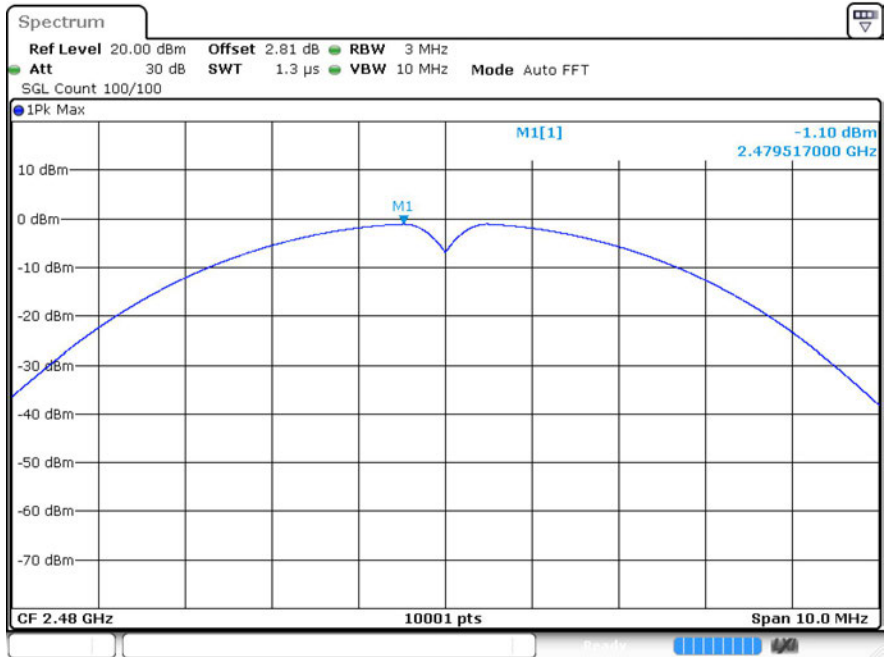
2.1 Test Result

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-1.94	≤ 21	Pass
	MCH	-0.85	≤ 21	Pass
	HCH	-1.1	≤ 21	Pass
$\pi/4$ DQPSK	LCH	1.38	≤ 21	Pass
	MCH	2.39	≤ 21	Pass
	HCH	2.28	≤ 21	Pass
8DPSK	LCH	1.14	≤ 21	Pass
	MCH	2.76	≤ 21	Pass
	HCH	2.27	≤ 21	Pass

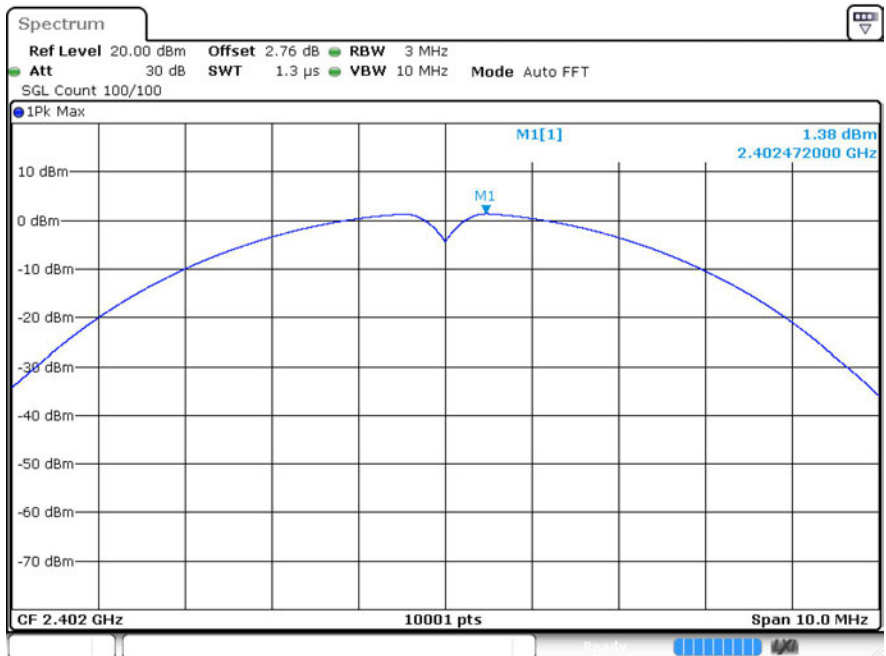
2.2 Test Graphs

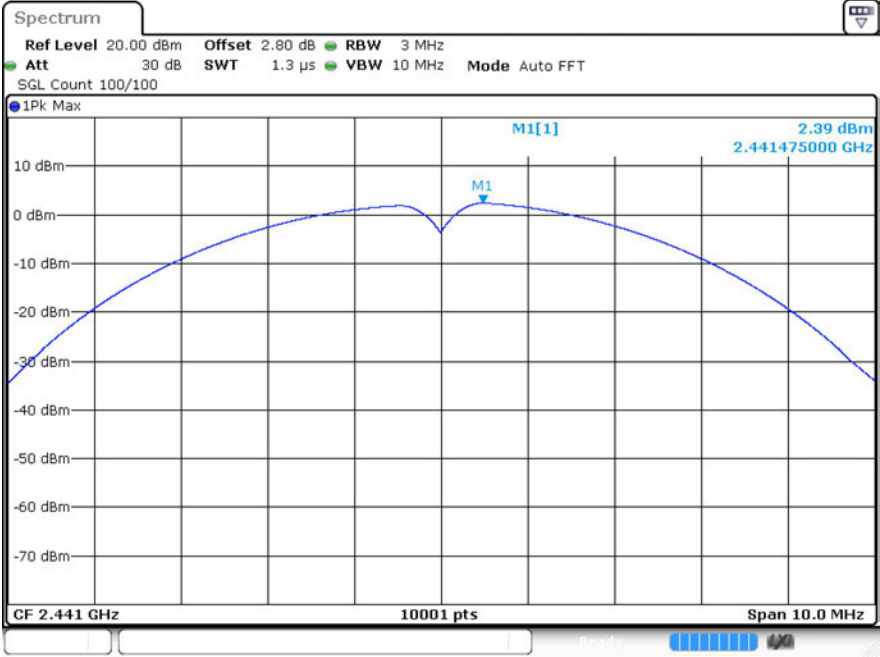
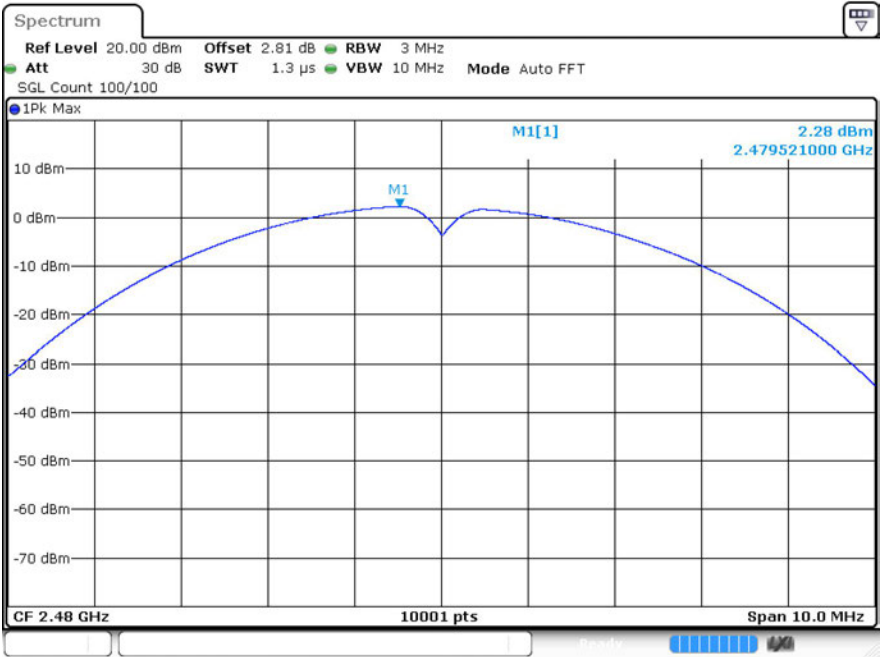


GFSK/HCH

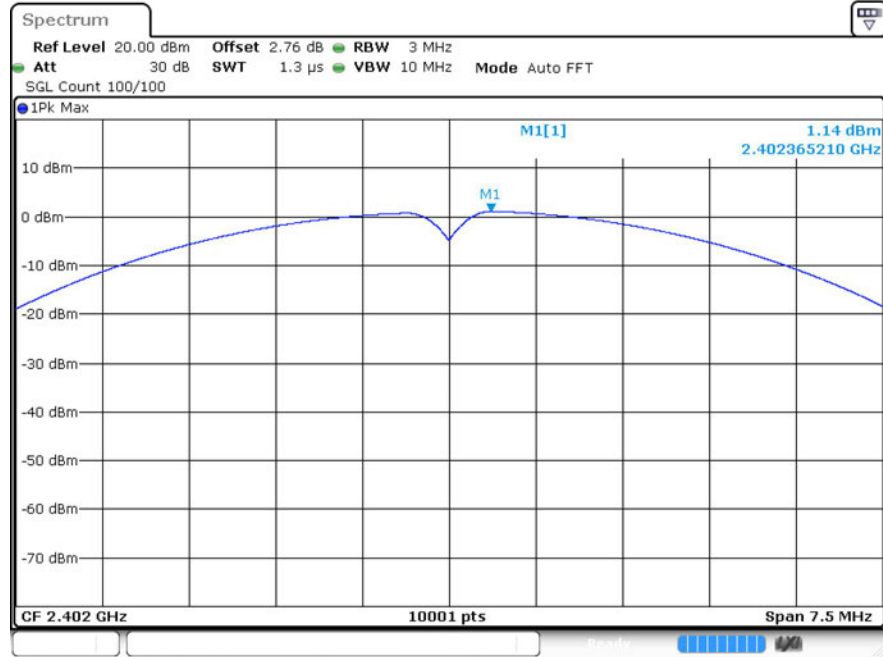


$\pi/4$ DQPSK/LCH

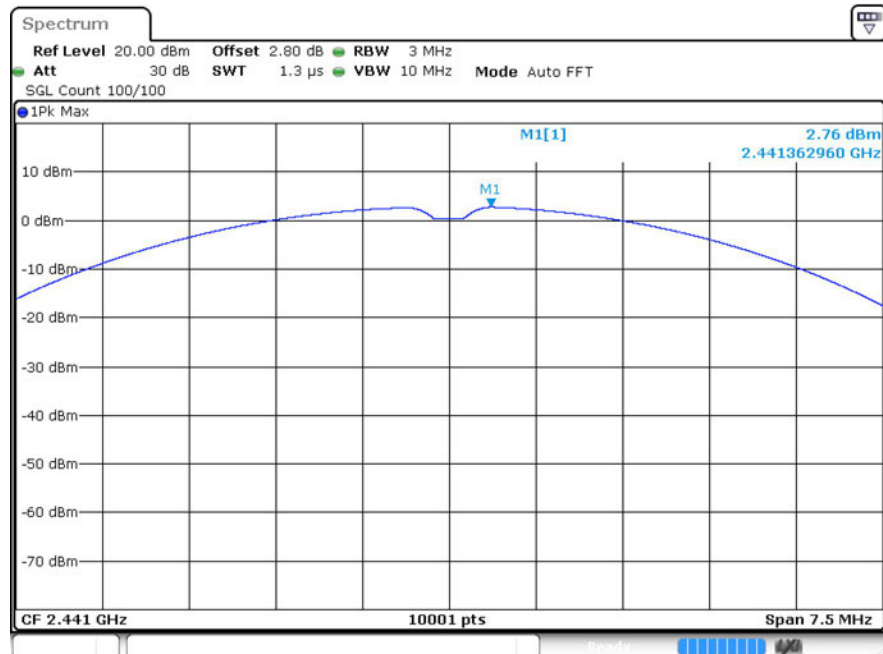


$\pi/4$DQPSK/MC H	
$\pi/4$DQPSK/HCH	

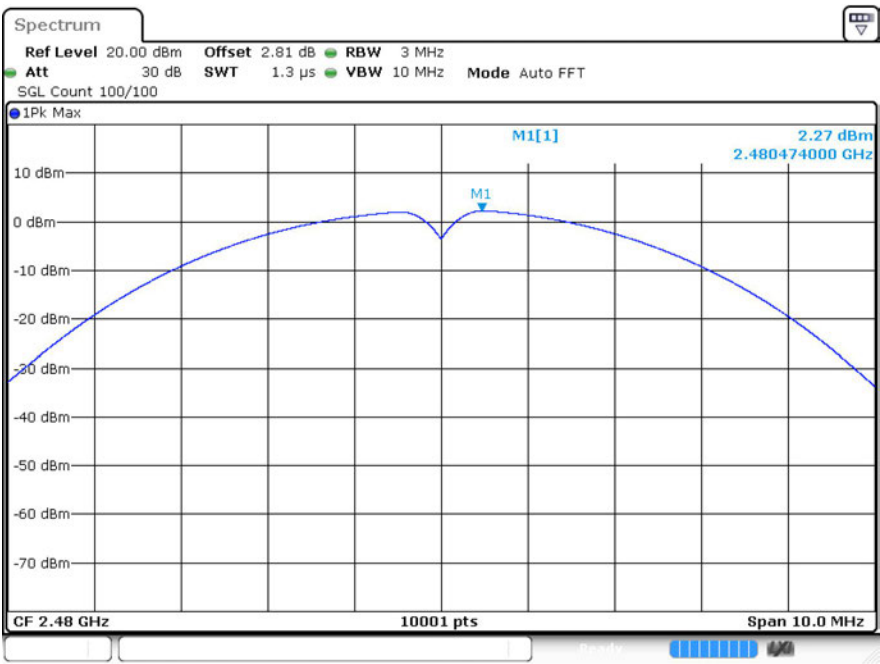
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

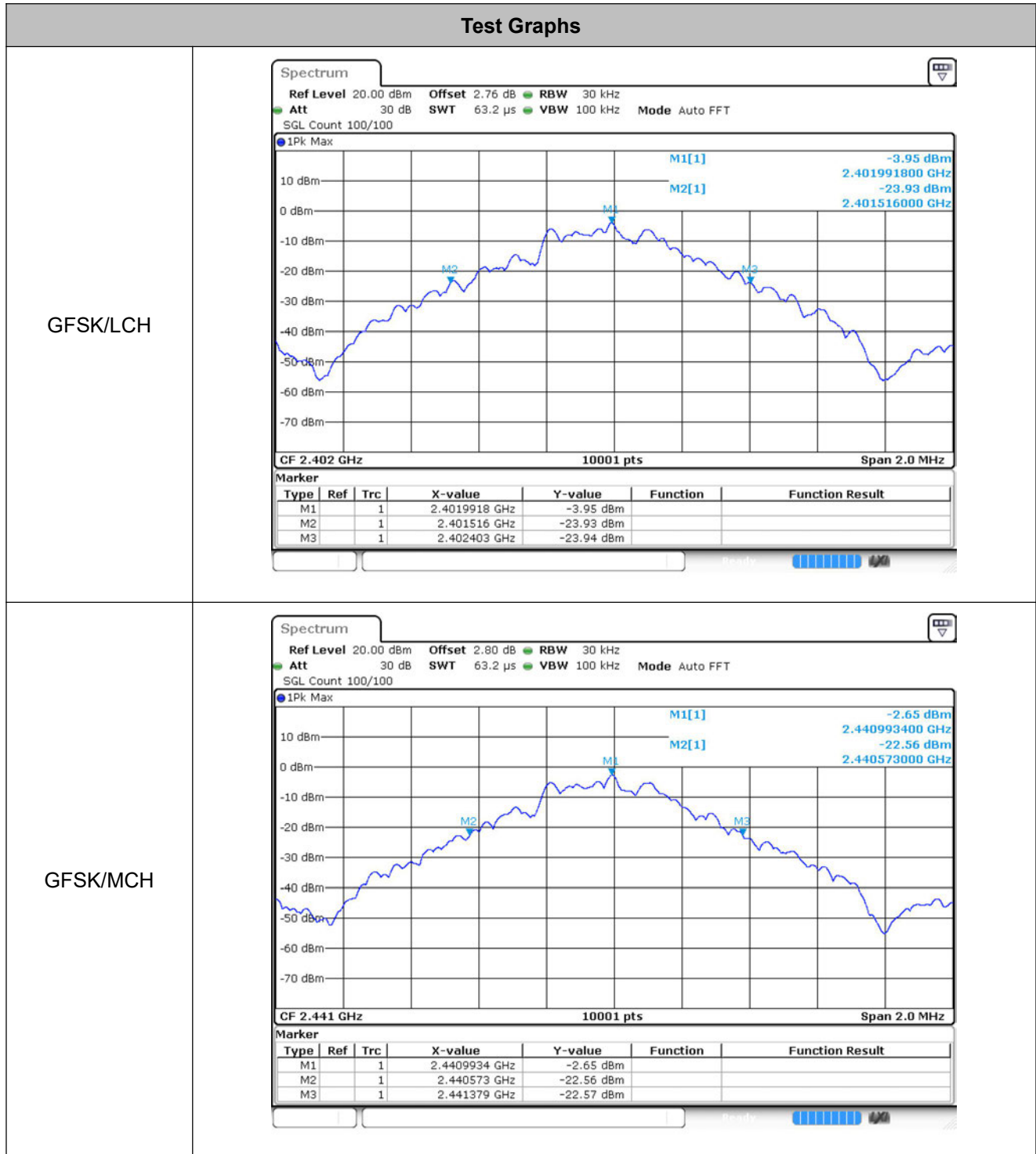


3 20dB Bandwidth

3.1 Test Result

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.887	Not Specified	Pass
	MCH	0.807	Not Specified	Pass
	HCH	0.889	Not Specified	Pass
$\pi/4$ DQPSK	LCH	1.425	Not Specified	Pass
	MCH	1.388	Not Specified	Pass
	HCH	1.423	Not Specified	Pass
8DPSK	LCH	1.438	Not Specified	Pass
	MCH	1.436	Not Specified	Pass
	HCH	1.404	Not Specified	Pass

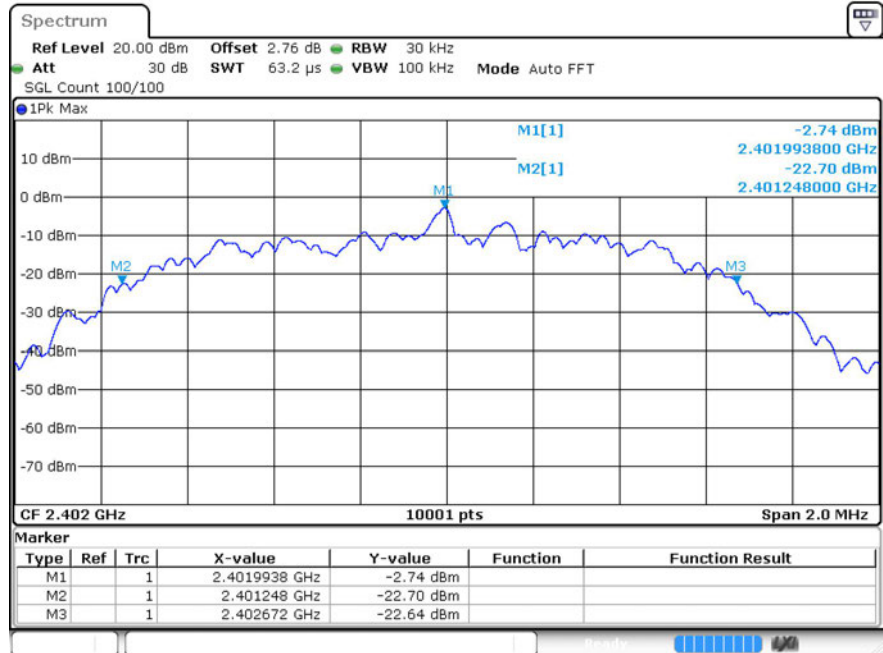
3.2 Test Graphs



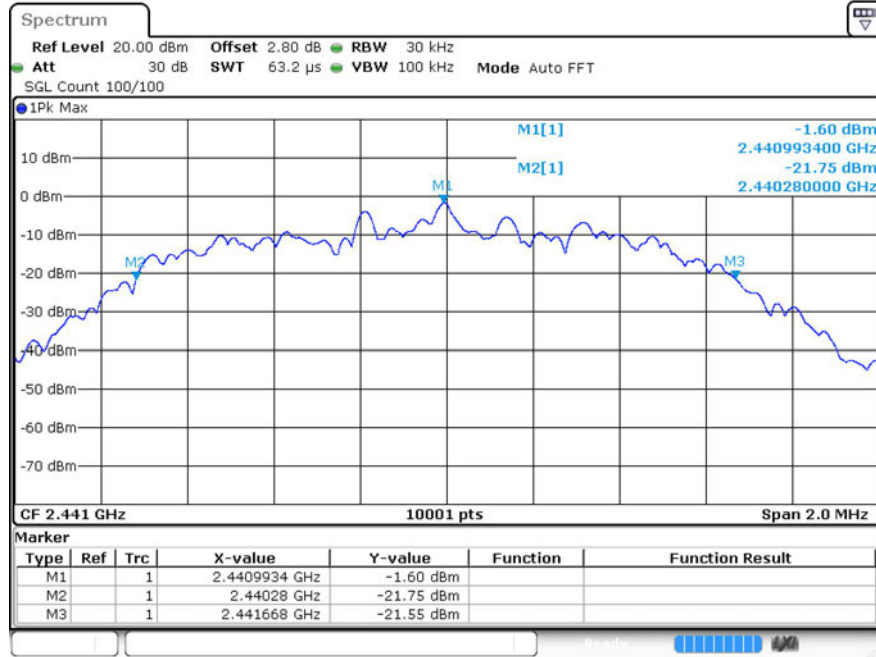
GFSK/HCH



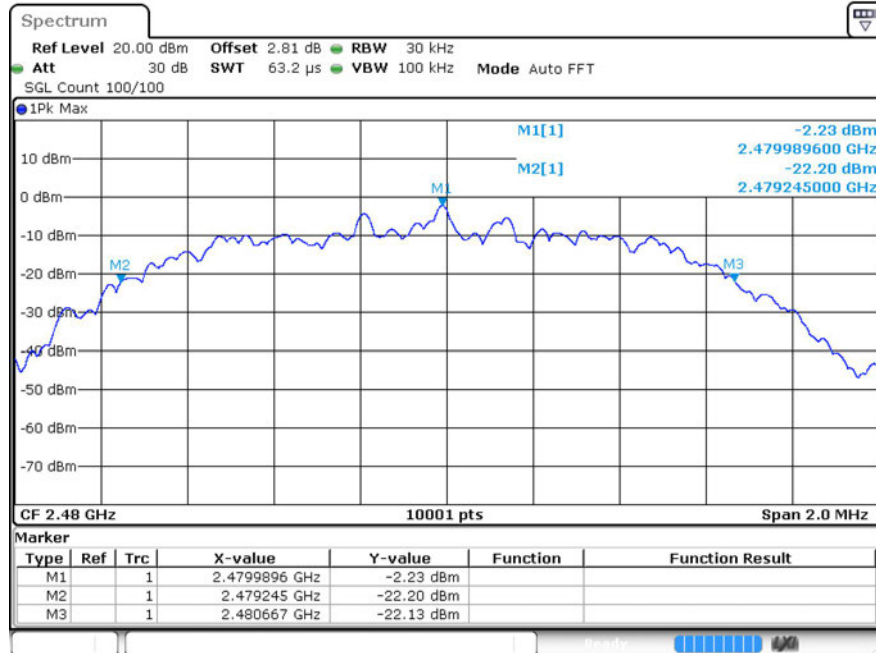
π /4DQPSK/LCH



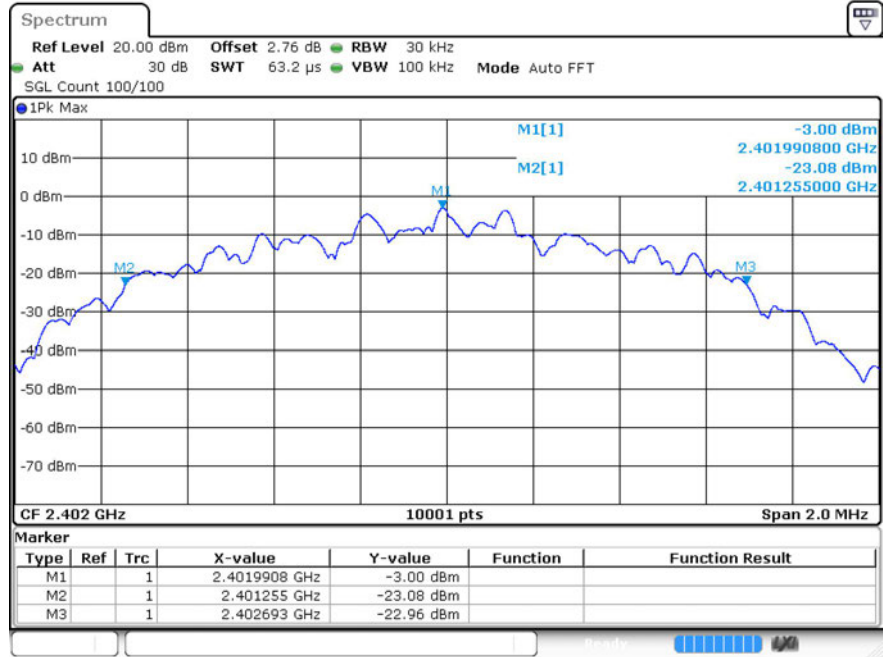
$\pi/4$ DQPSK/MCH



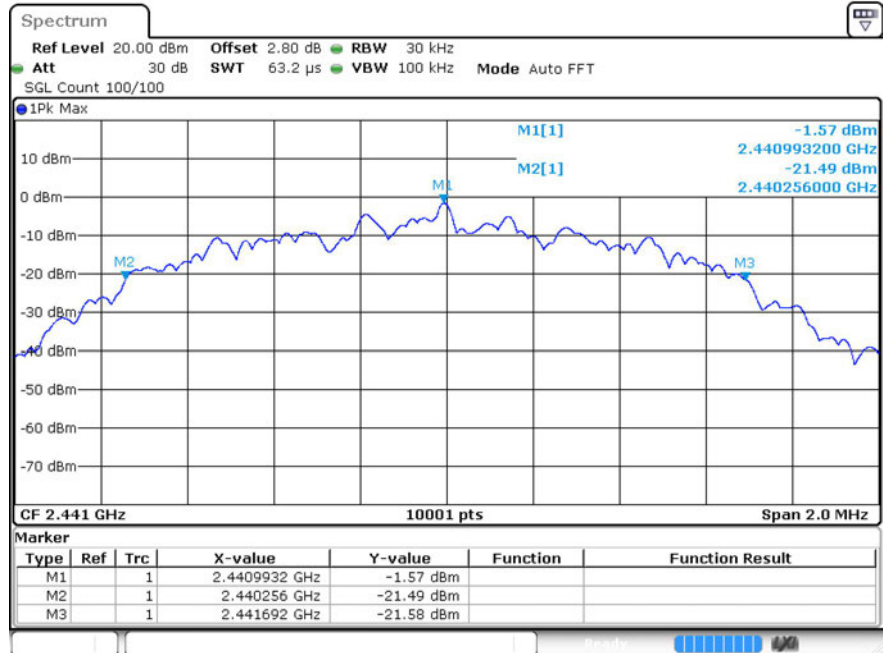
$\pi/4$ DQPSK/HCH



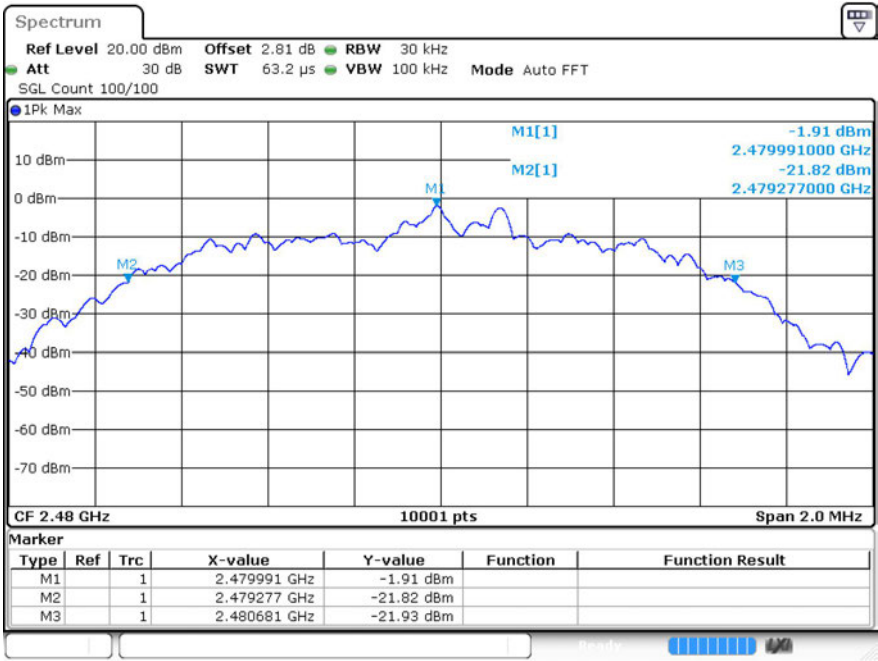
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH



4 Carrier Frequency Separation

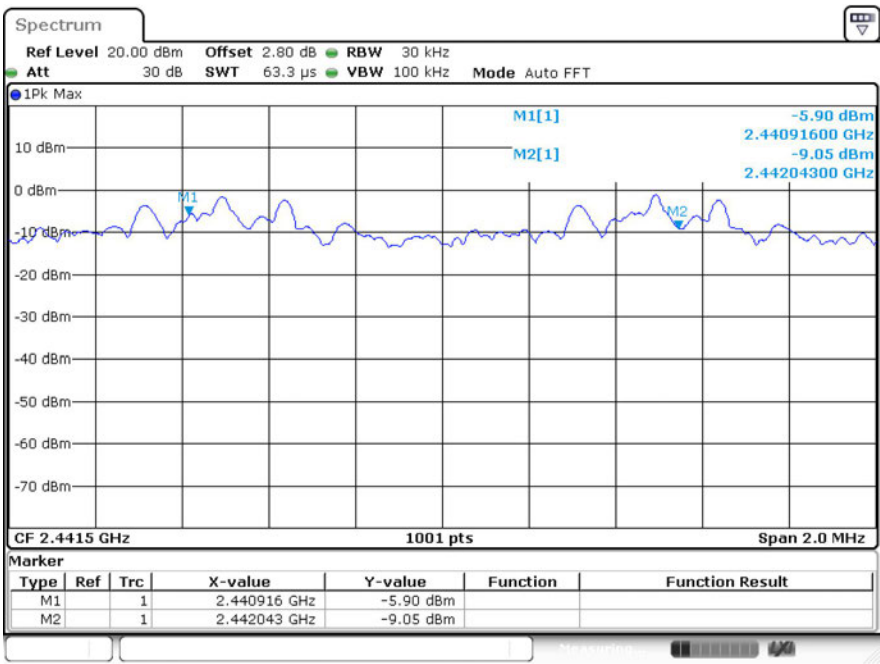
4.1 Test Result

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	1.001	0.538	Pass
$\pi/4$ DQPSK	MCH	1.07	0.925	Pass
8DPSK	MCH	1.127	0.957	Pass

4.2 Test Graphs



8DPSK/MCH

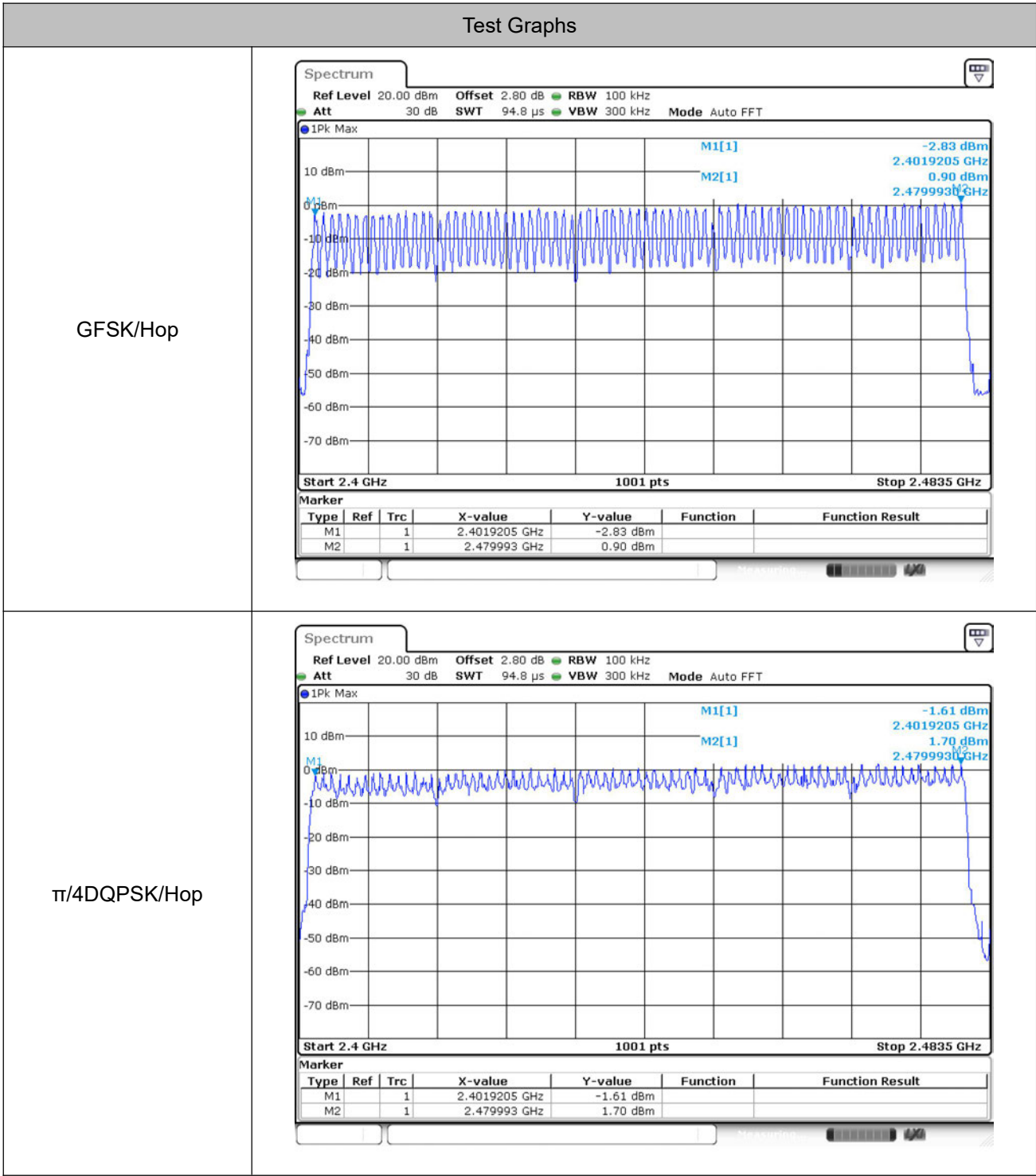


5 Hopping Channel Number

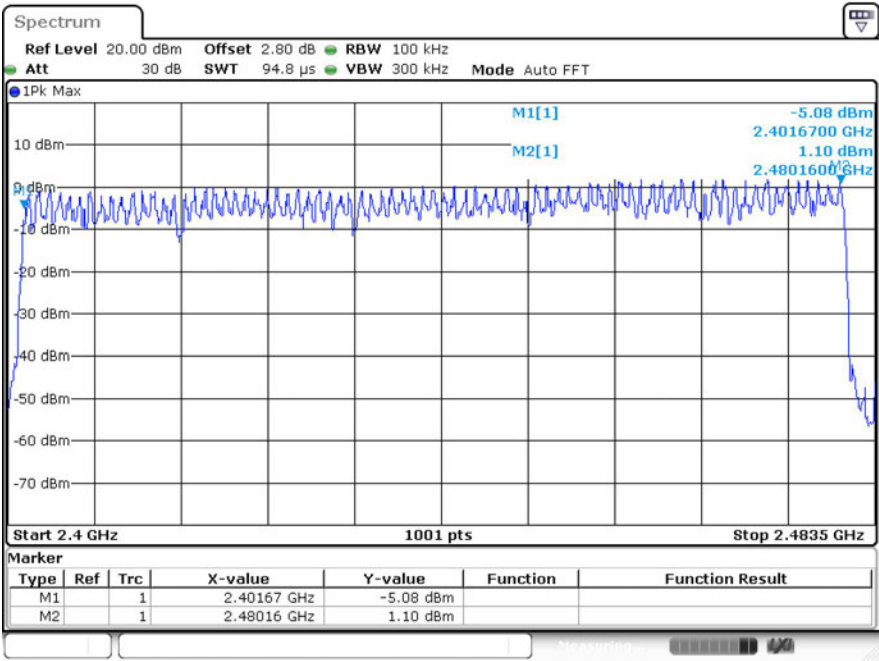
5.1 Test Result

Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	≥ 15	PASS
$\pi/4$ DQPSK	Hop	79	≥ 15	PASS
8DPSK	Hop	79	≥ 15	PASS

5.2 Test Graphs



8DPSK/Hop

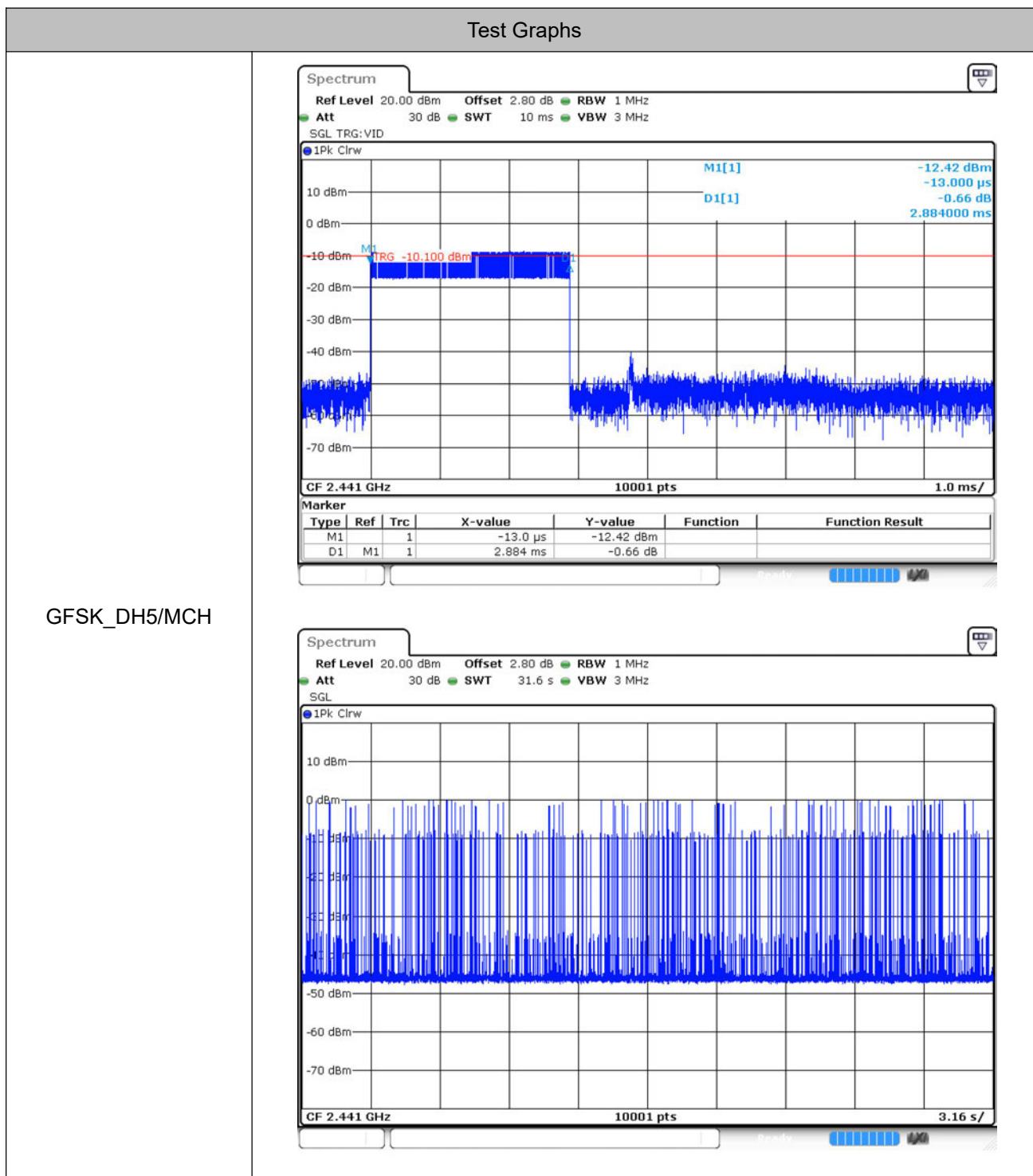


6 Dwell Time

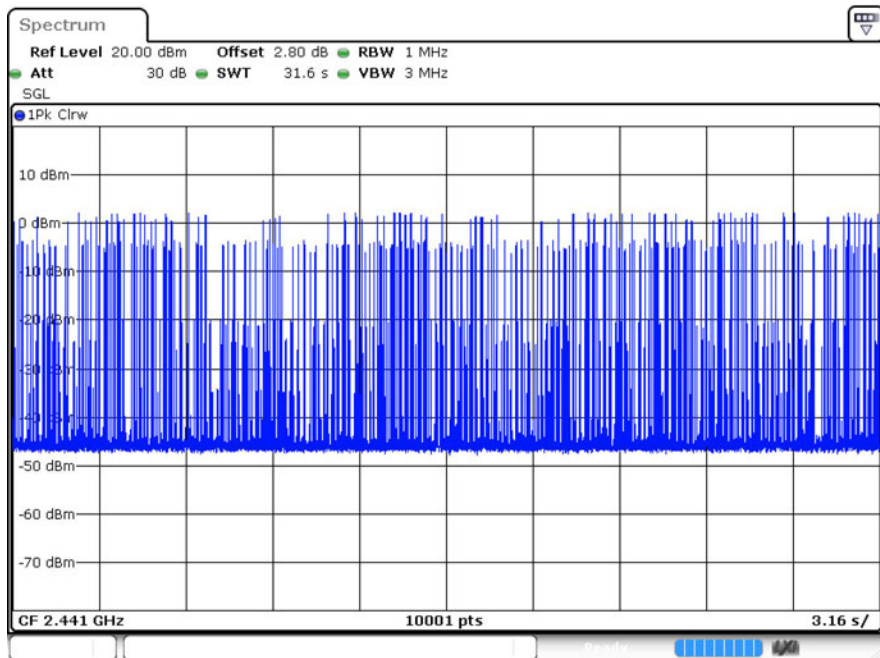
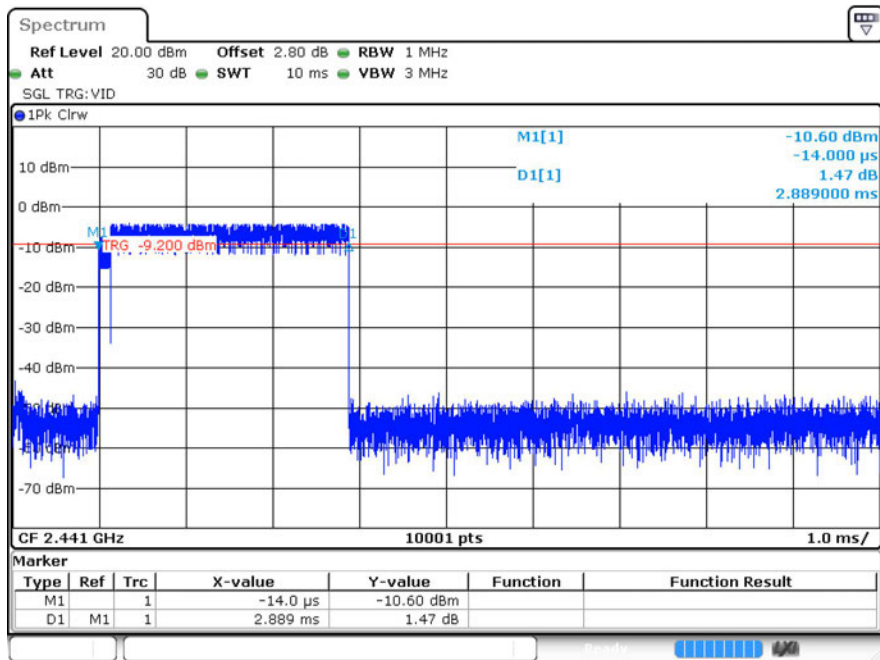
6.1 Test Result

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Limit [s]	Verdict
GFSK	DH5	MCH	2.884	99	285.516	0.4	Pass
$\pi/4$ DQPSK	2DH5	MCH	2.889	106	306.234	0.4	Pass
8DPSK	3DH5	MCH	2.892	111	321.012	0.4	Pass

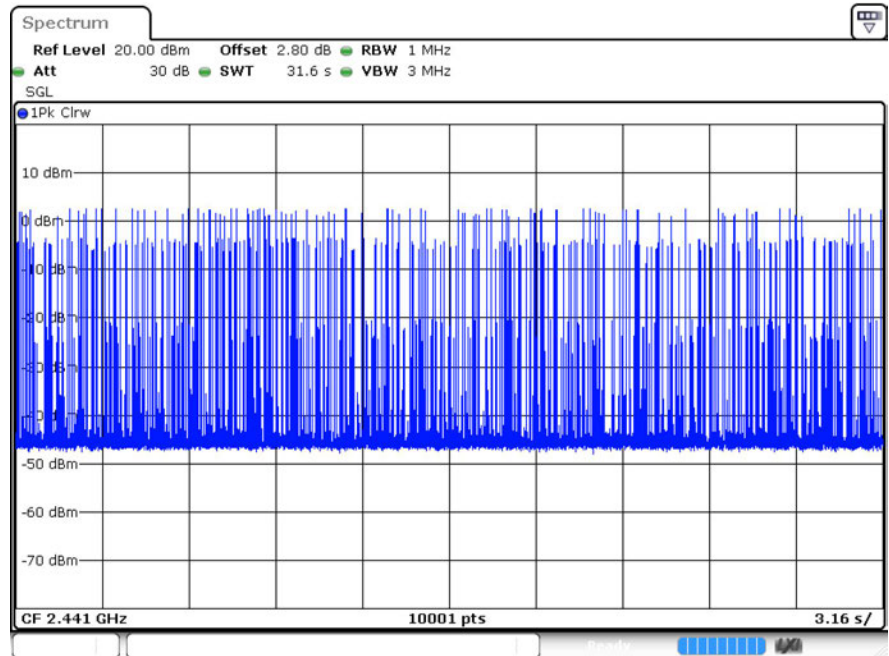
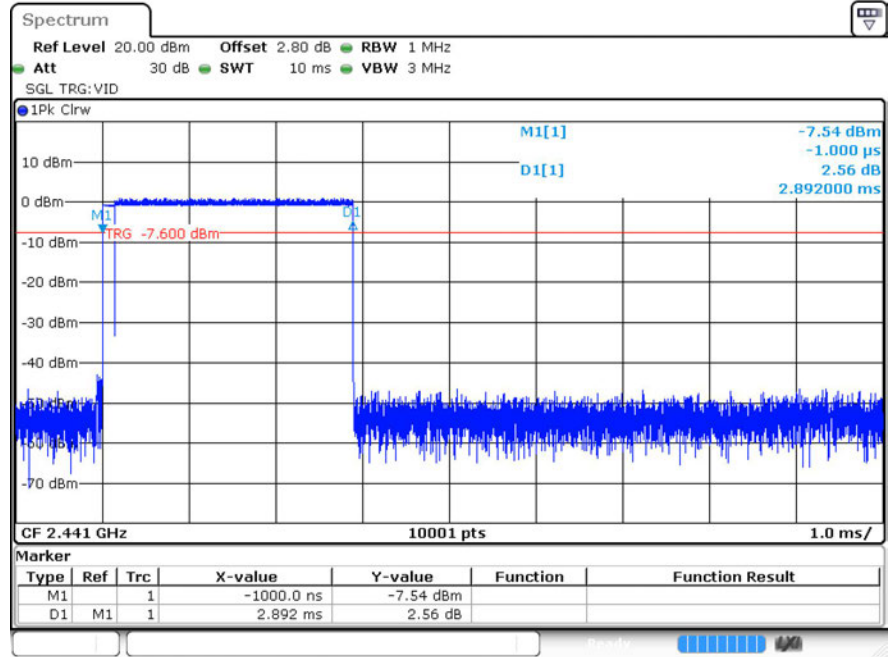
6.2 Test Graphs



$\pi/4$ DQPSK
_2DH5/MCH



8DPSK_3DH5/MCH

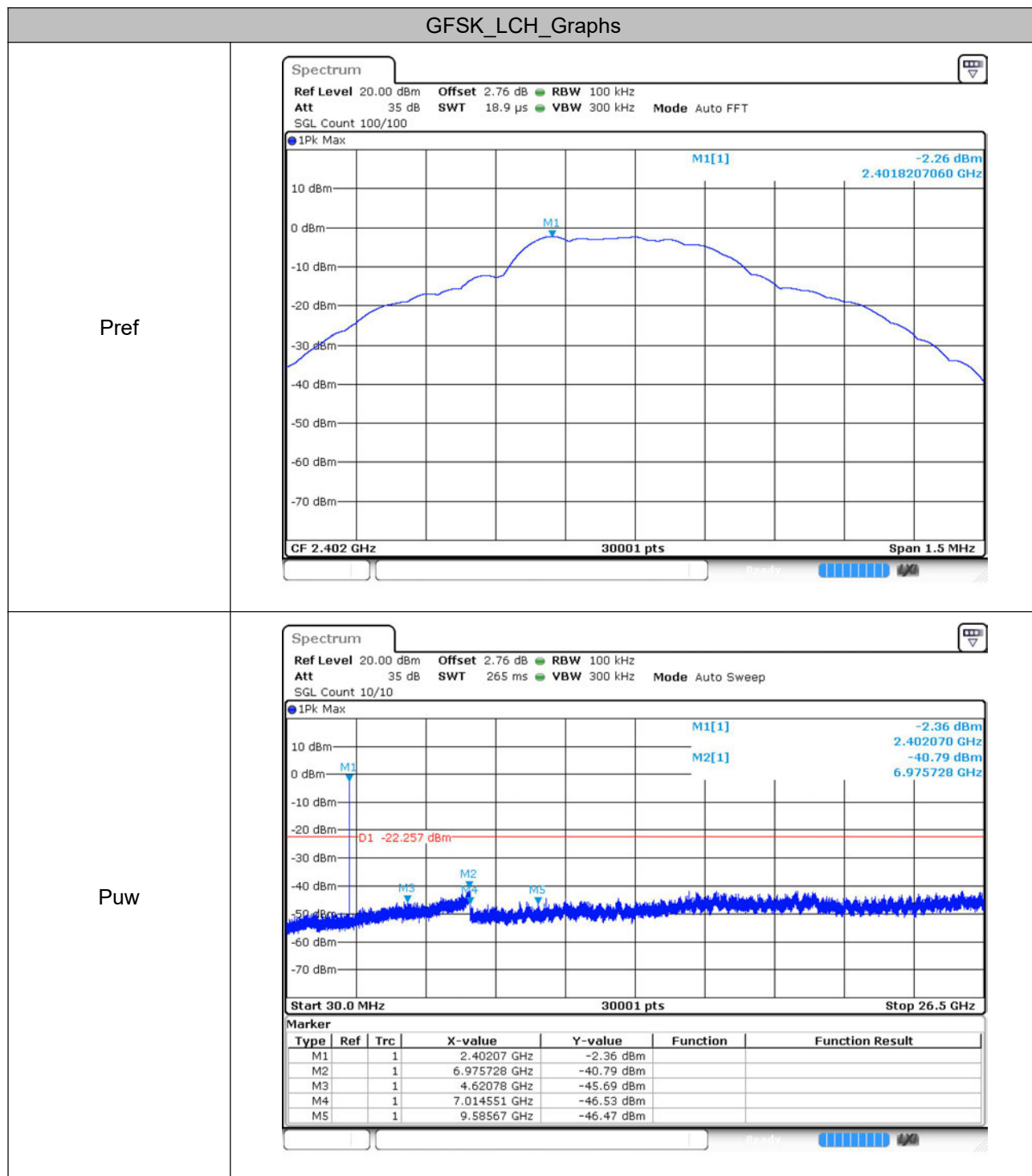


7 RF Conducted Spurious Emissions

7.1 Test Result

Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-38.52	-20	Pass
	MCH	-39.57	-20	Pass
	HCH	-39.49	-20	Pass
$\pi/4$ DQPSK	LCH	-39.74	-20	Pass
	MCH	-40.75	-20	Pass
	HCH	-40.53	-20	Pass
8DPSK	LCH	-39.55	-20	Pass
	MCH	-41.25	-20	Pass
	HCH	-41.29	-20	Pass

7.2 Test Graphs

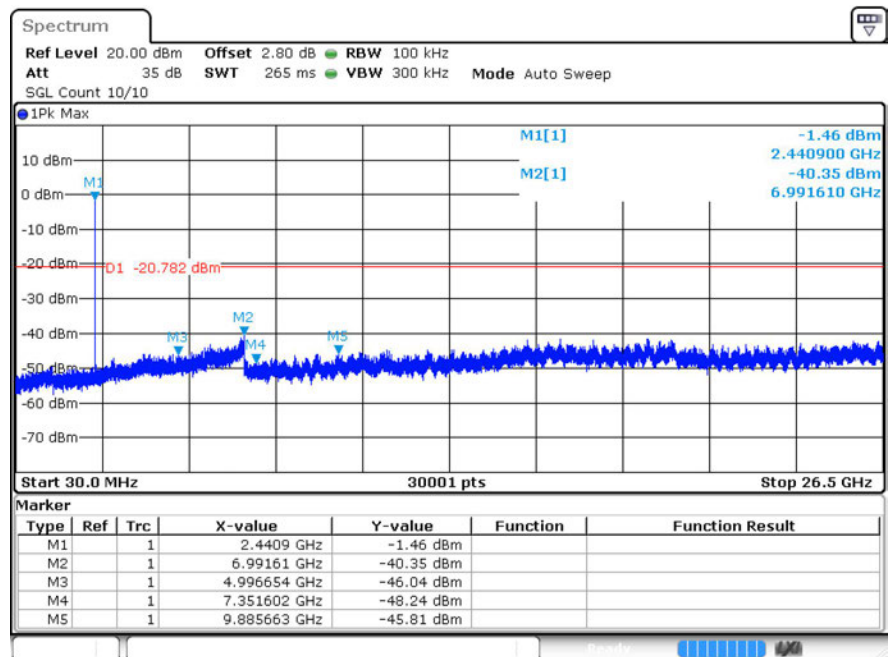


GFSK_MCH_Graphs

Pref

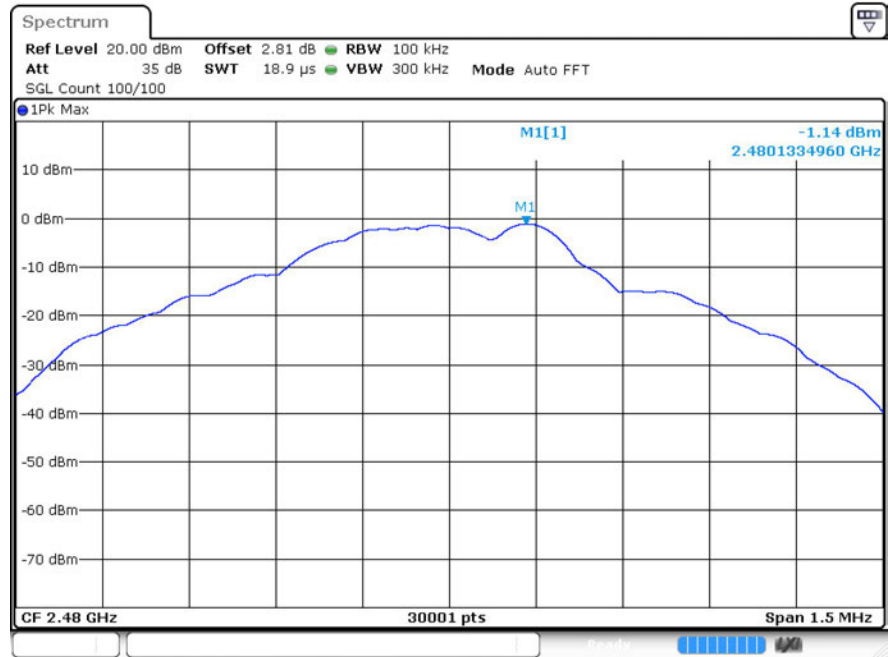


Puw

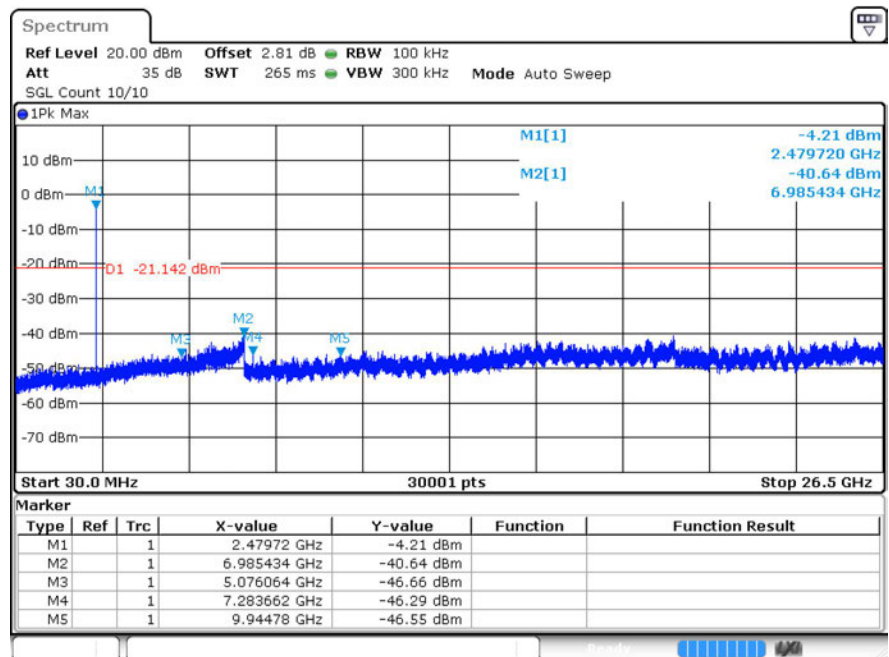


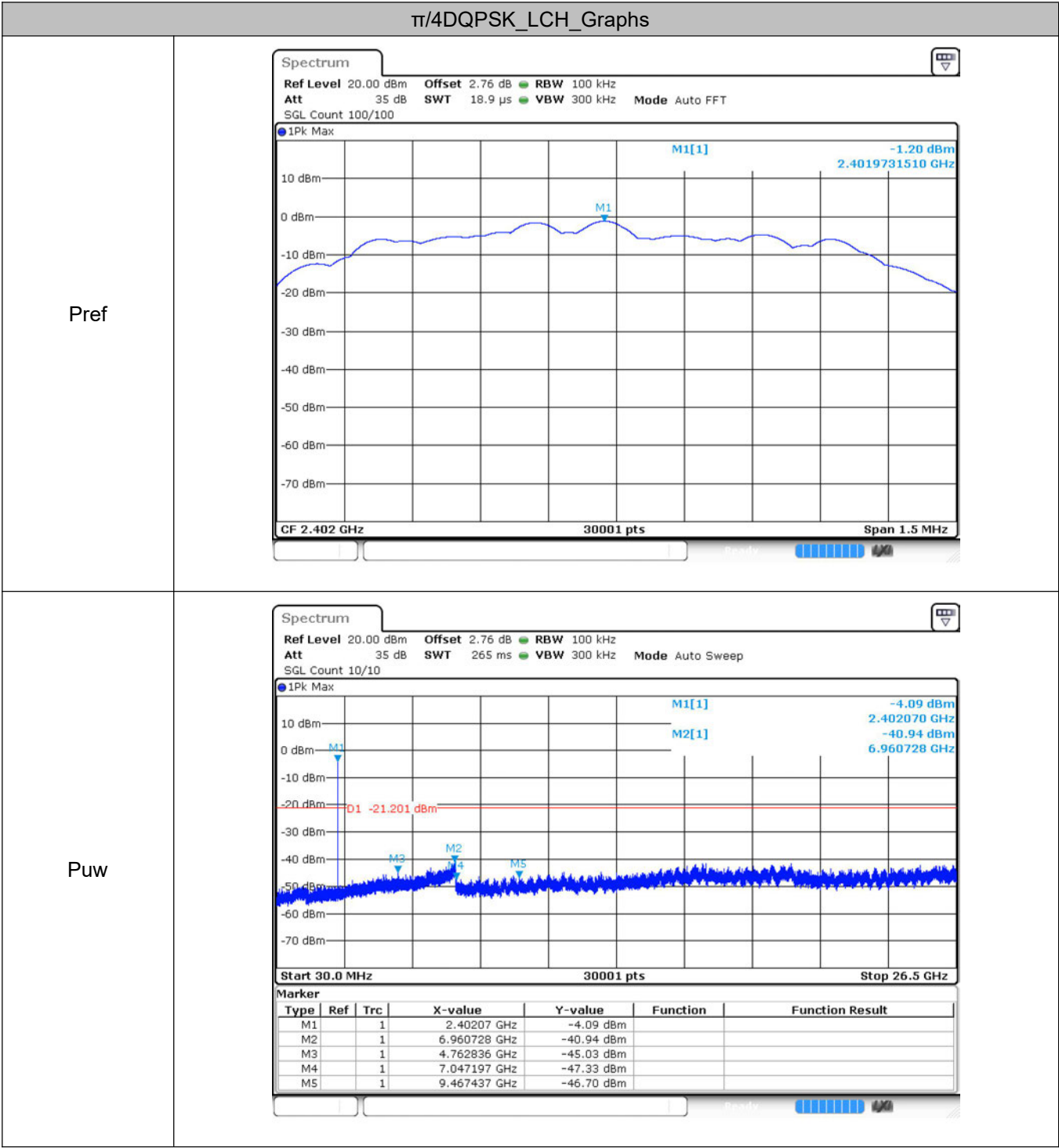
GFSK_HCH_Graphs

Pref



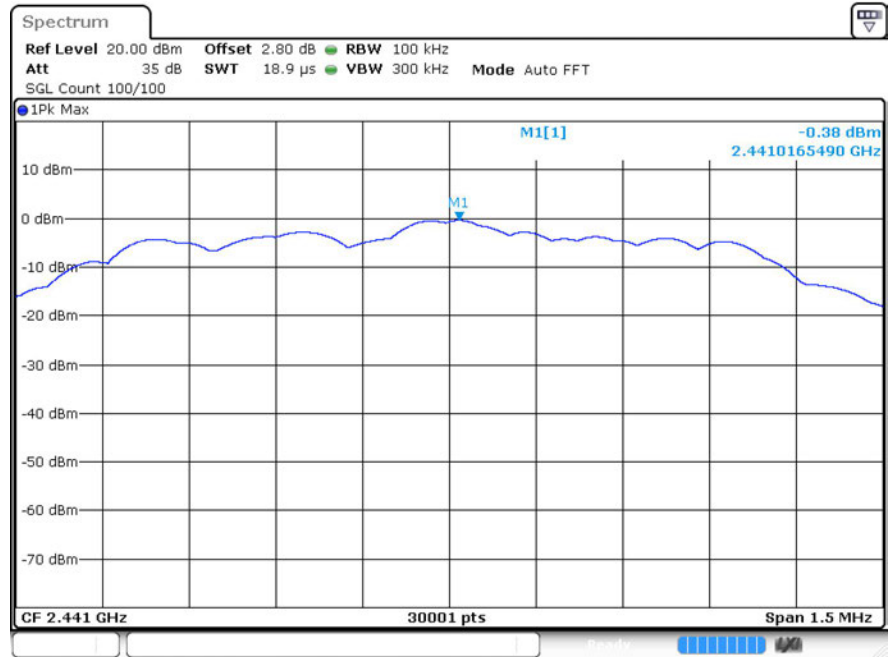
Puw



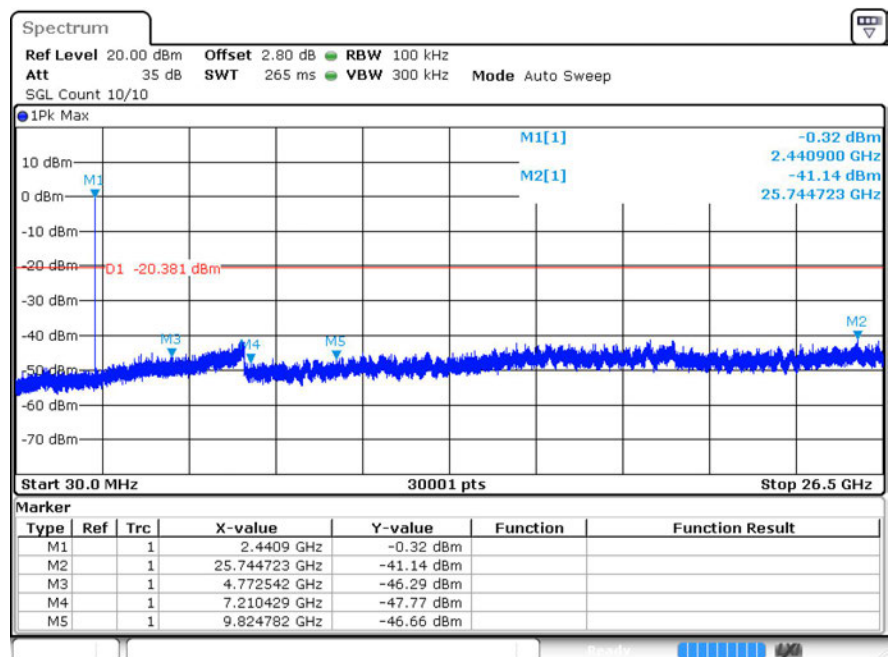


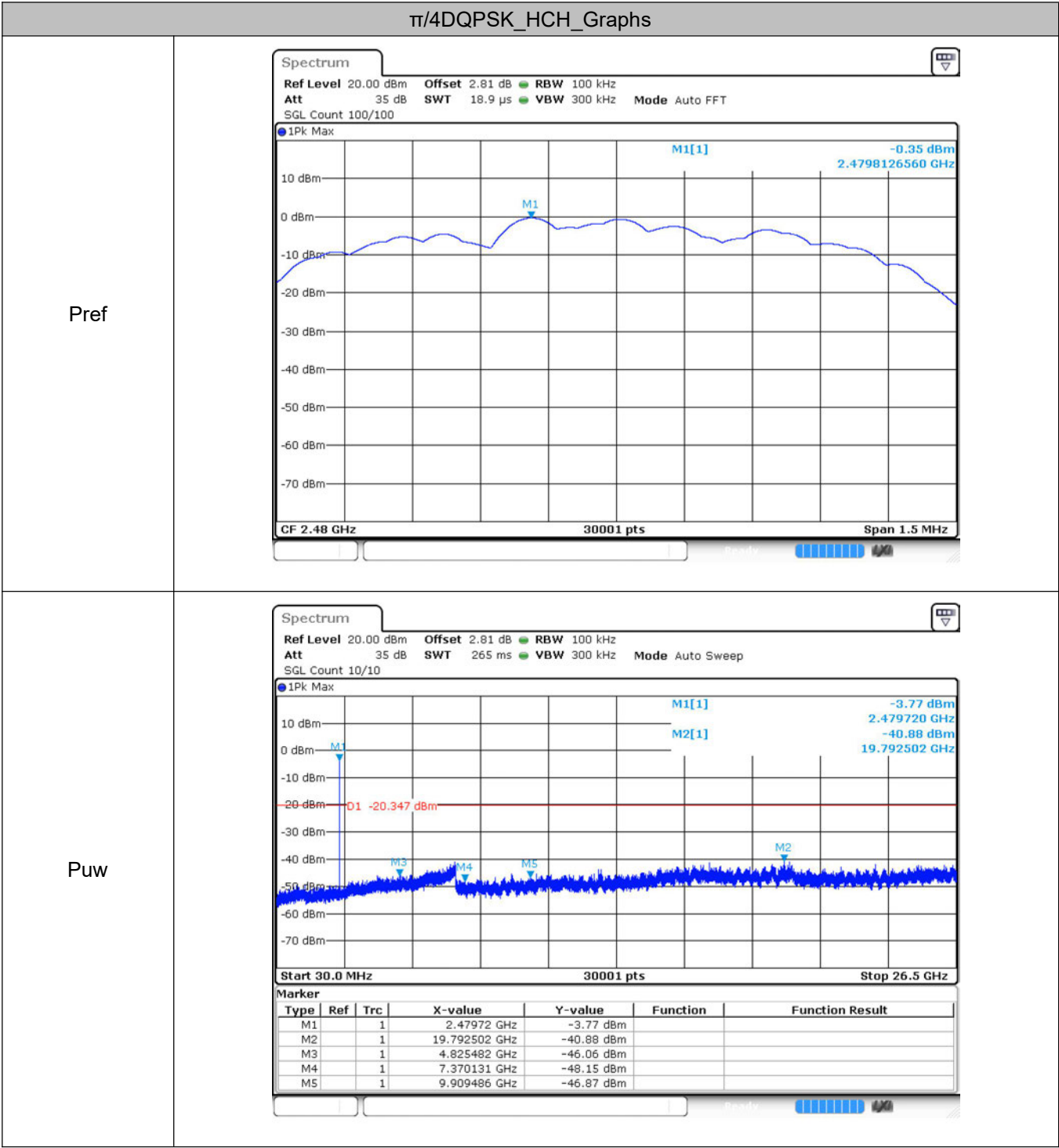
π /4DQPSK_MCH_Graphs

Pref



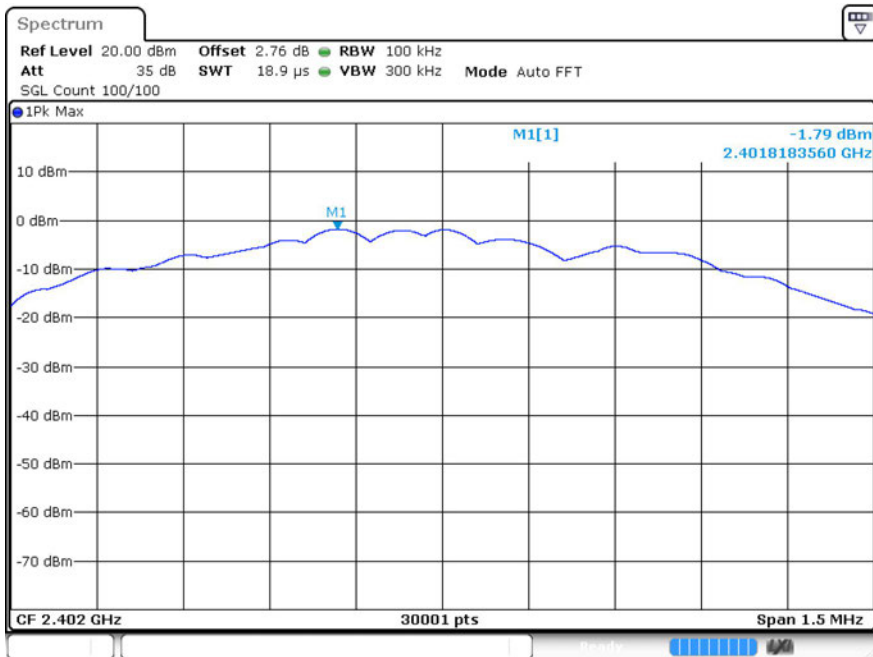
Puw



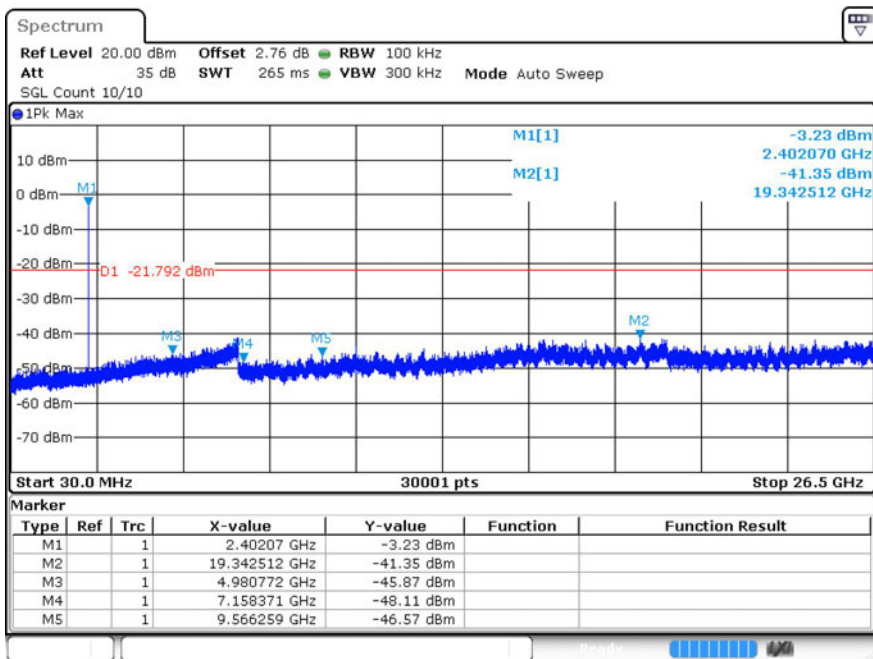


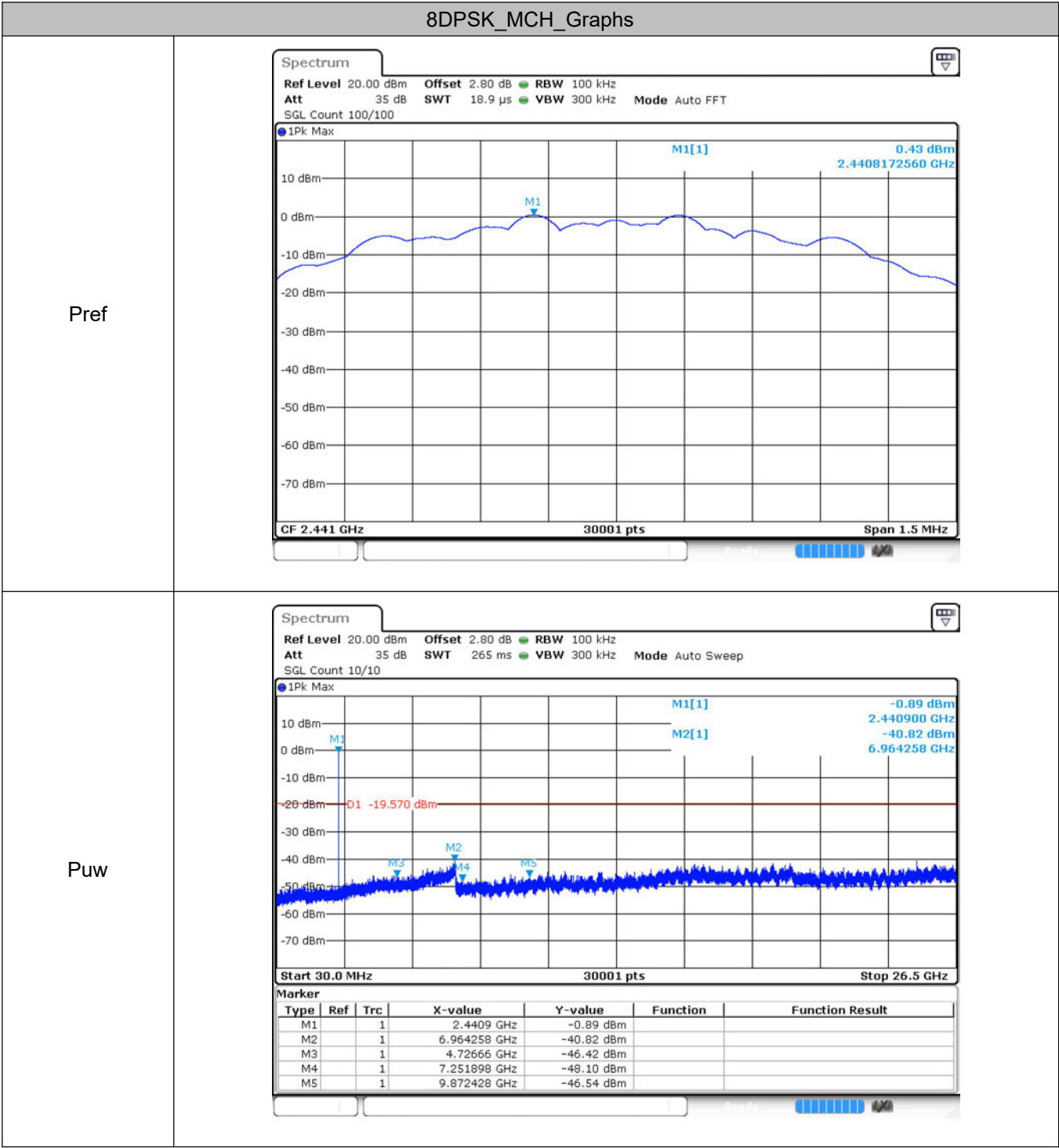
8DPSK_LCH_Graphs

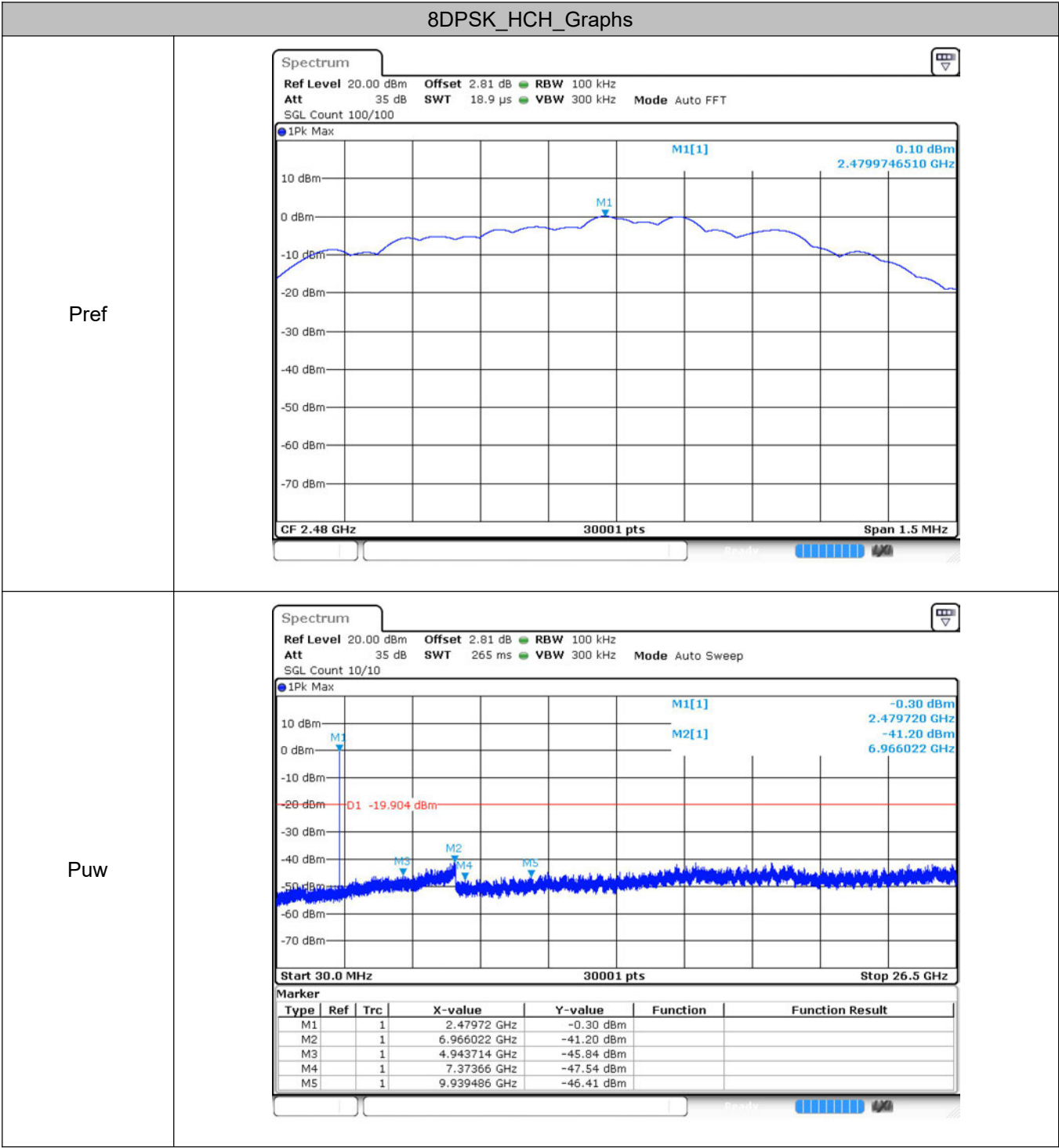
Pref



Puw





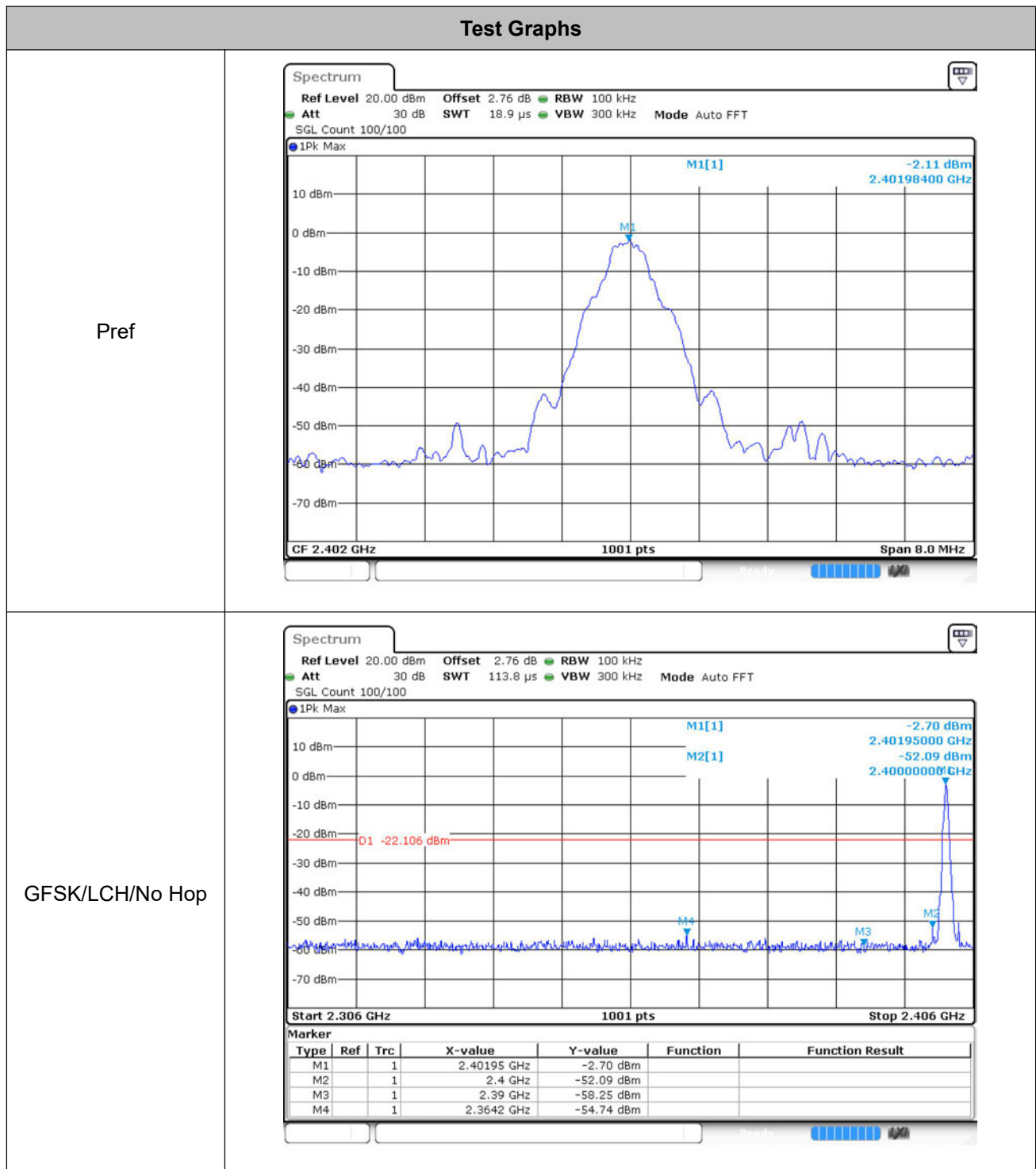


8 Band-edge for RF Conducted Emissions

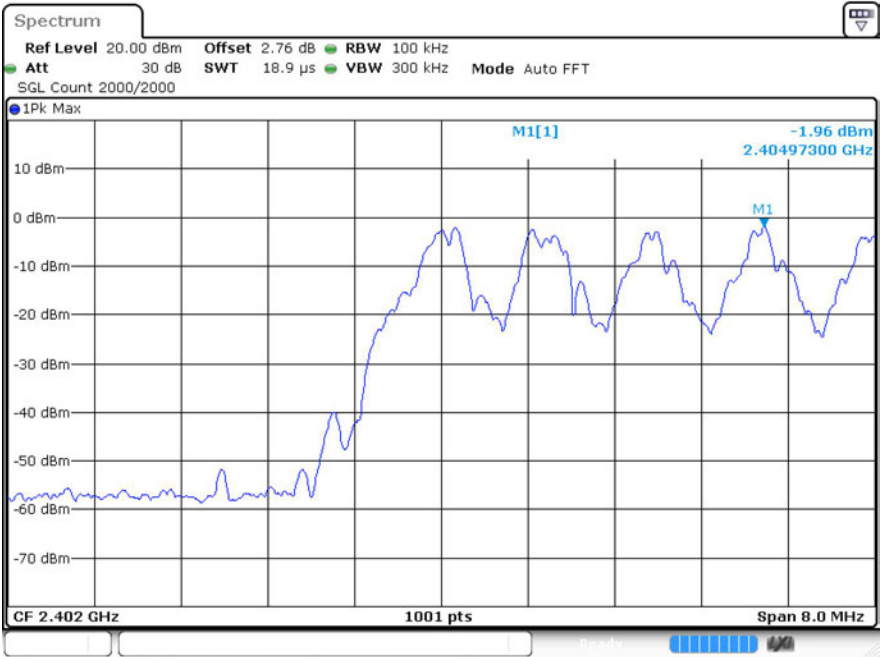
8.1 Test Result

Mode	Channel	Carrier Frequency [MHz]	Frequency Hopping	Max Spurious Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	2402	Off	-52.63	-20	Pass
			On	-52.54	-20	Pass
	HCH	2480	Off	-46.43	-20	Pass
			On	-47.26	-20	Pass
$\pi/4$ DQPSK	LCH	2402	Off	-54.04	-20	Pass
			On	-52.62	-20	Pass
	HCH	2480	Off	-55.71	-20	Pass
			On	-48.74	-20	Pass
8DPSK	LCH	2402	Off	-54.69	-20	Pass
			On	-53.55	-20	Pass
	HCH	2480	Off	-47.82	-20	Pass
			On	-56.9	-20	Pass

8.2 Test Graphs



Ref



GFSK/LCH/Hop

