

Appendix A

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

Product Name: 6 IN 1 SOUND MACHINE CLOCK

Trade Mark: N/A

Test Model: STG-6952-KB

Environmental Conditions

Temperature:	24.4 °C
Relative Humidity:	52.3%
ATM Pressure:	101Kpa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen

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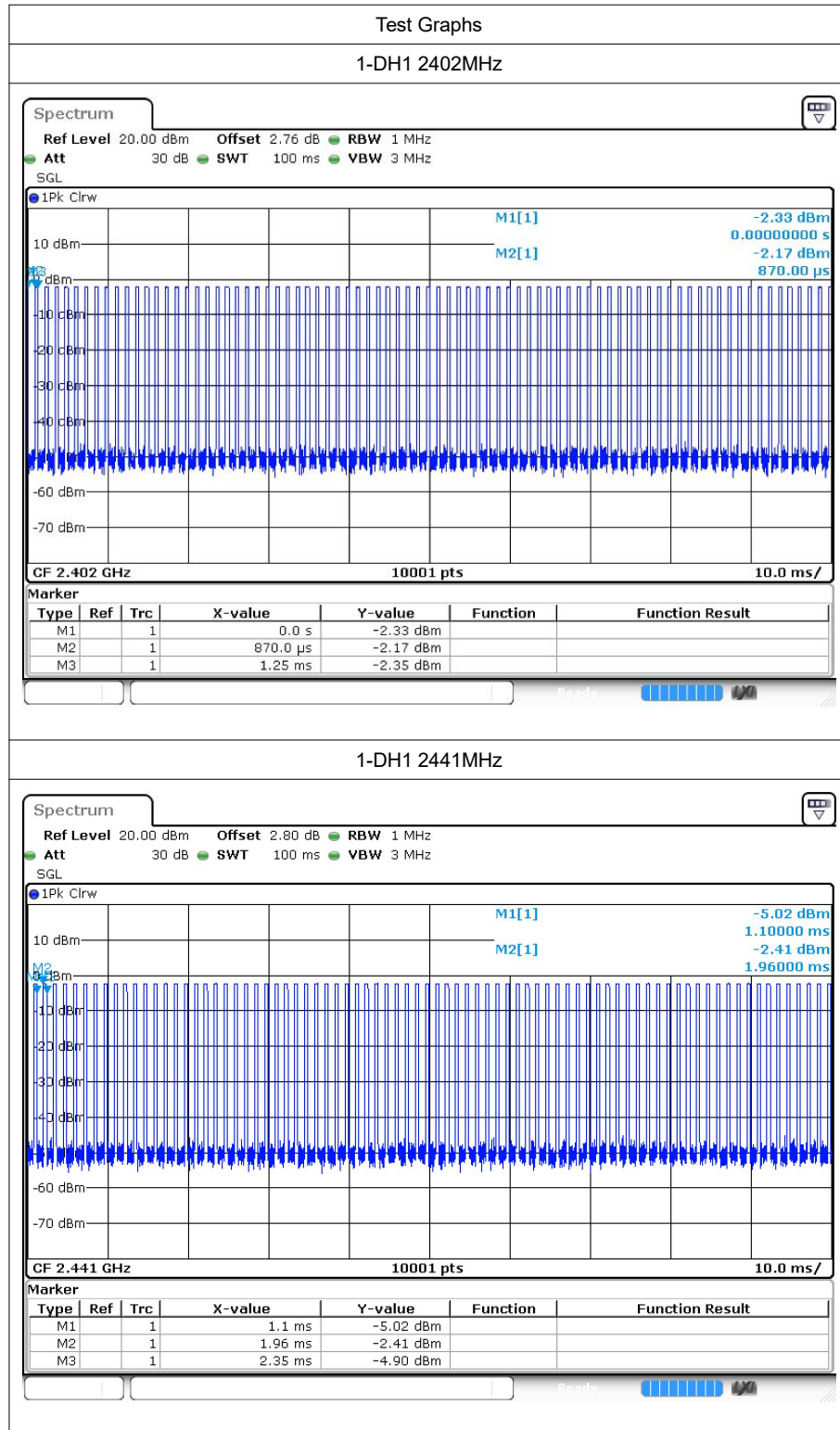
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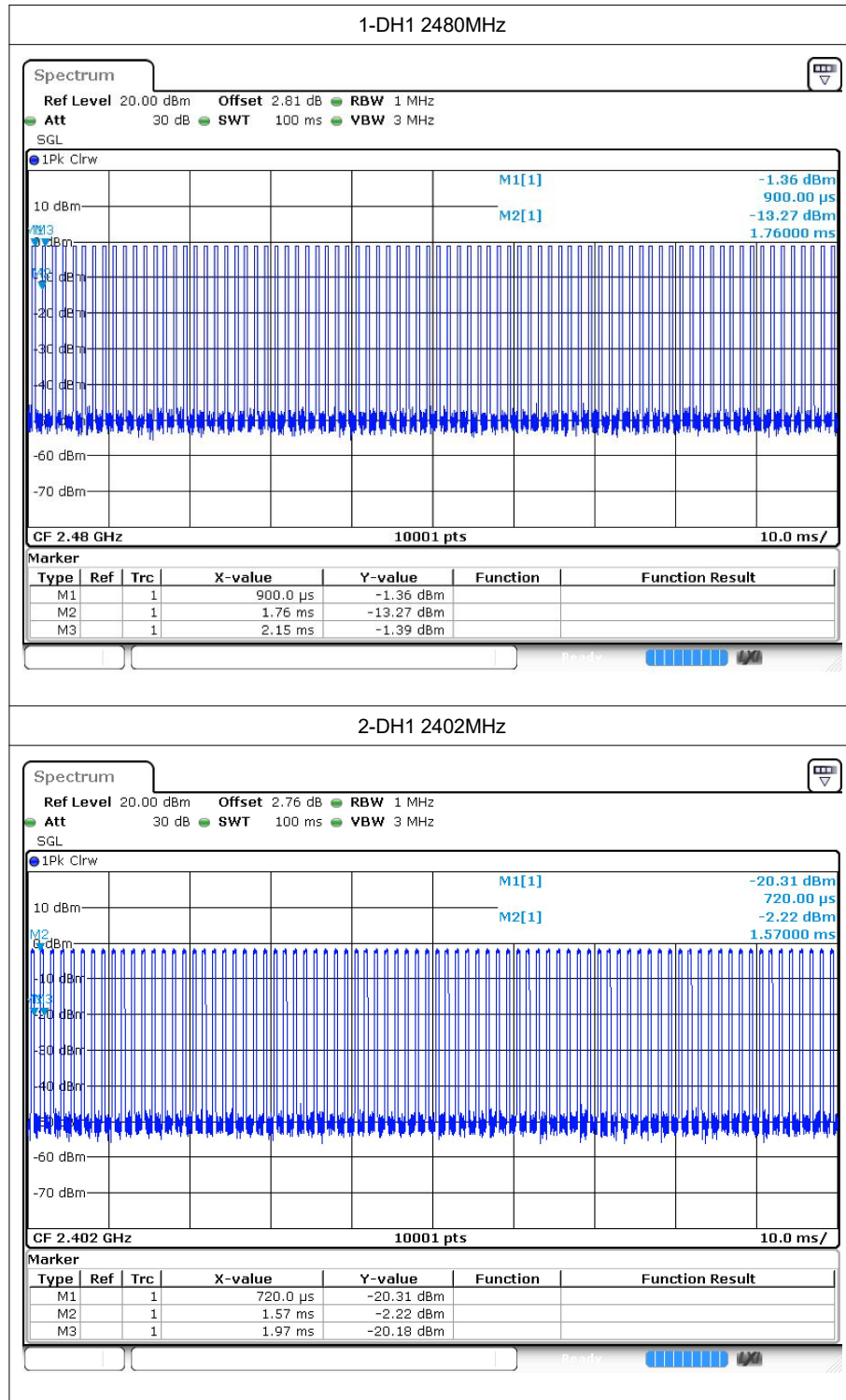
1 Duty Cycle

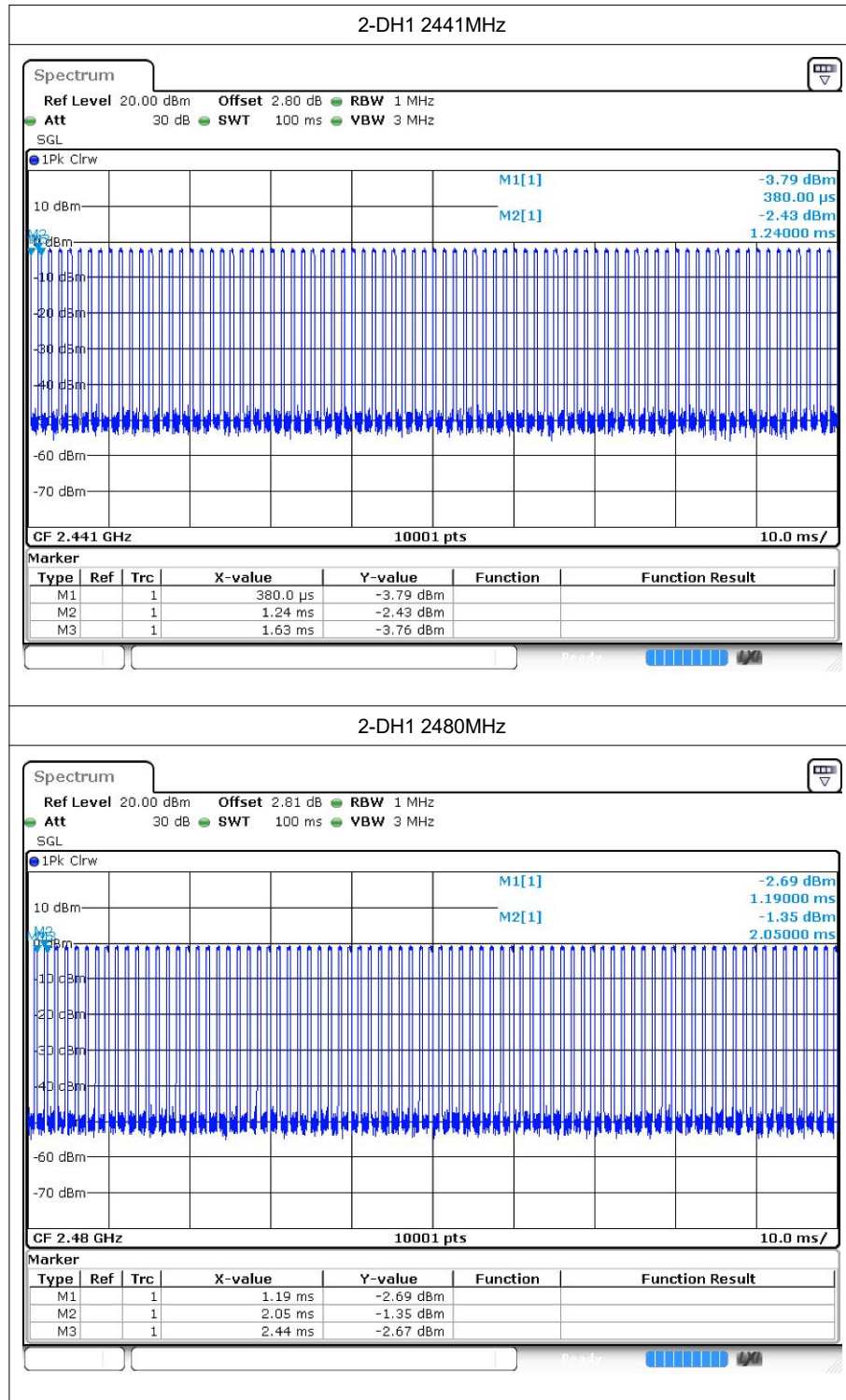
1.1 Test Result

Mode	Frequency (MHz)	Duty Cycle (%)	1/T (kHz)
1-DH1	2402	31.21	2.63
1-DH1	2441	32	2.56
1-DH1	2480	31.83	2.56
2-DH1	2402	32.8	2.5
2-DH1	2441	32.01	2.56
2-DH1	2480	32	2.56

1.2 Test Graphs





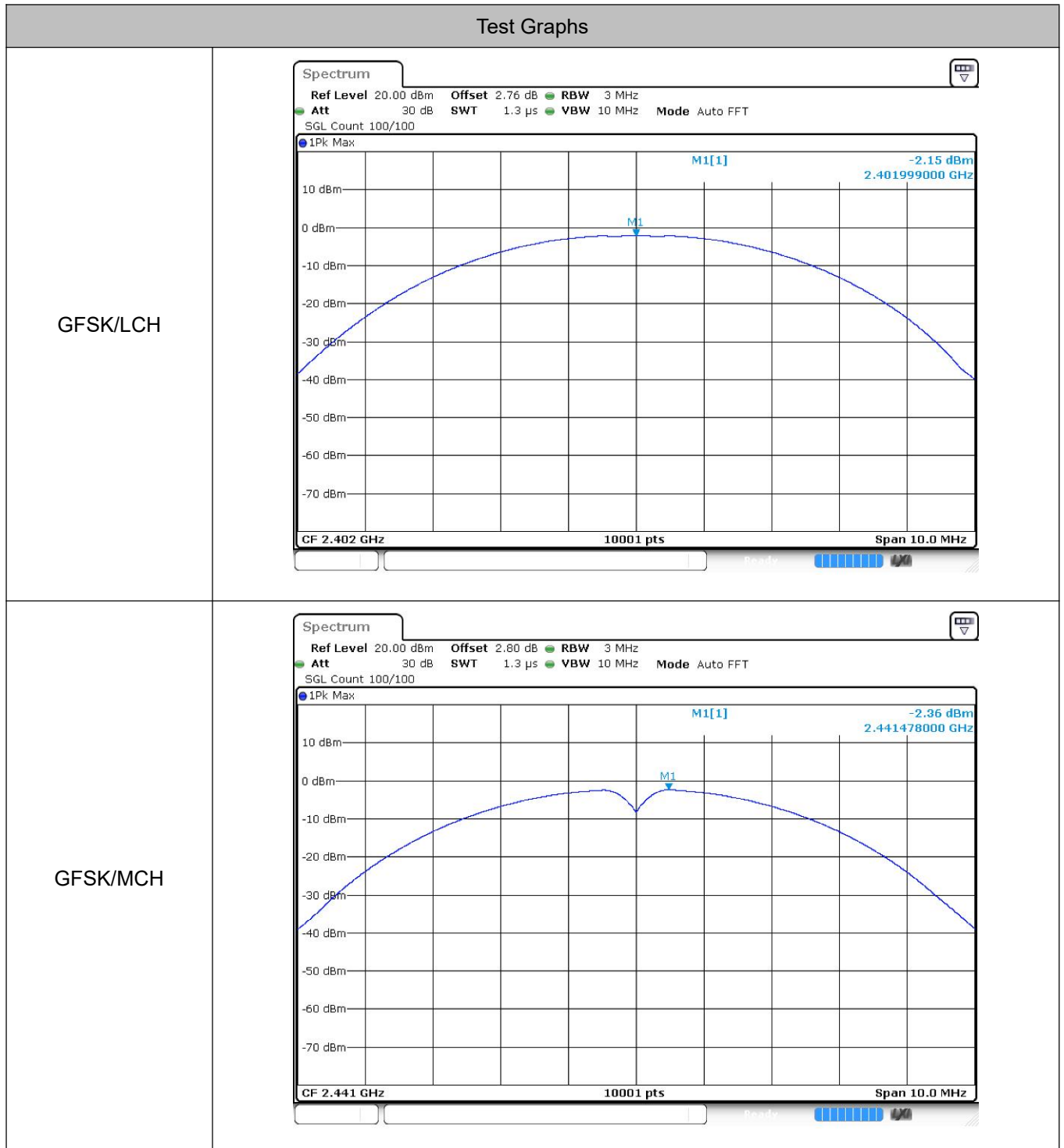


2 Maximum Conducted Peak Output Power

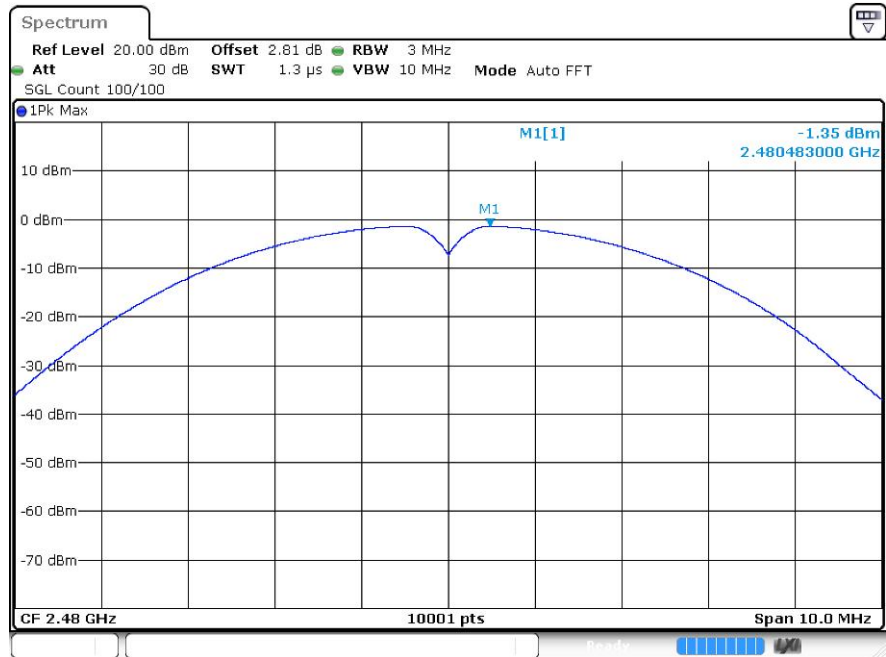
2.1 Test Result

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-2.15	21	Pass
	MCH	-2.36	21	Pass
	HCH	-1.35	21	Pass
$\pi/4$ DQPSK	LCH	-1.54	21	Pass
	MCH	-1.87	21	Pass
	HCH	-0.67	21	Pass

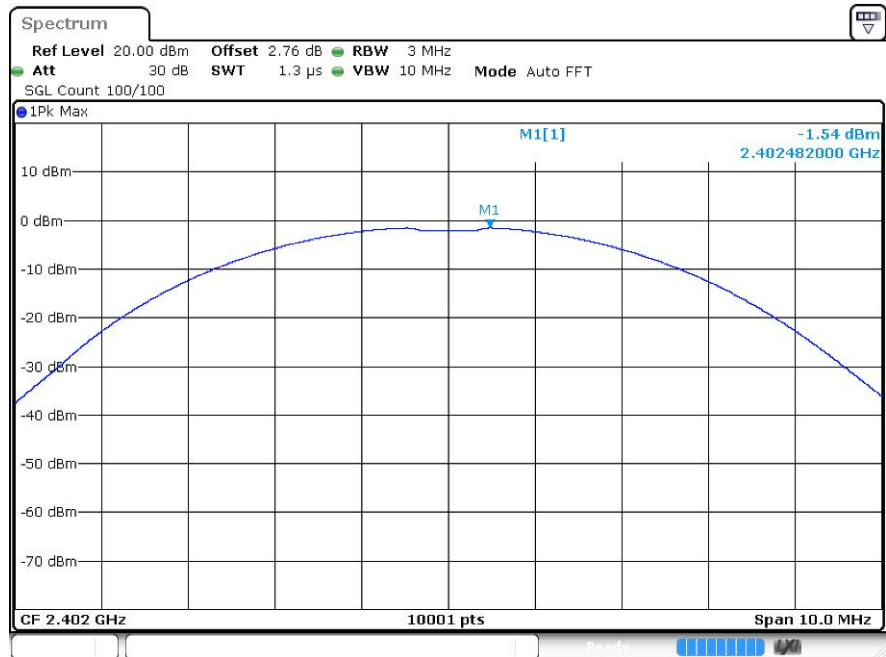
2.2 Test Graphs

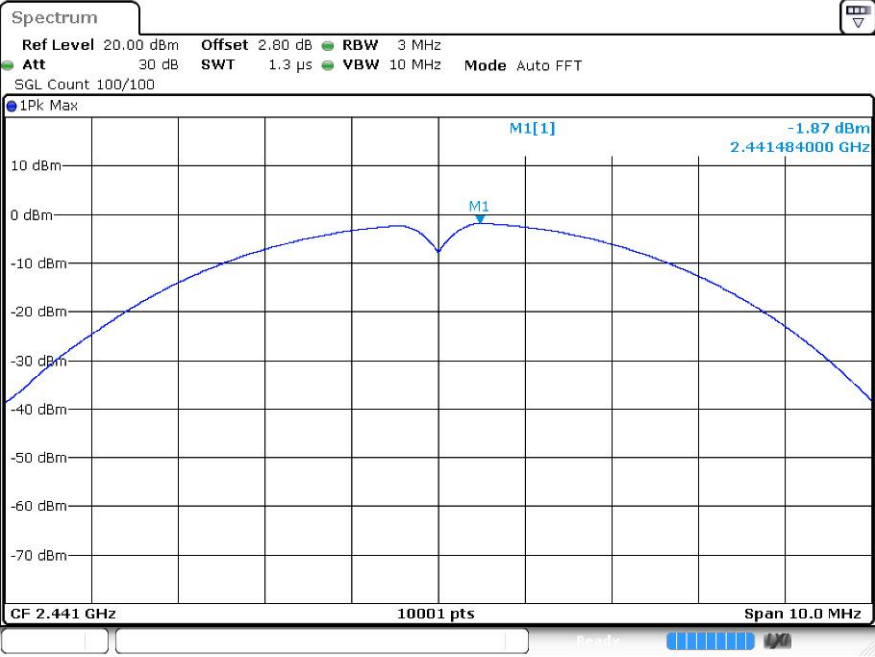
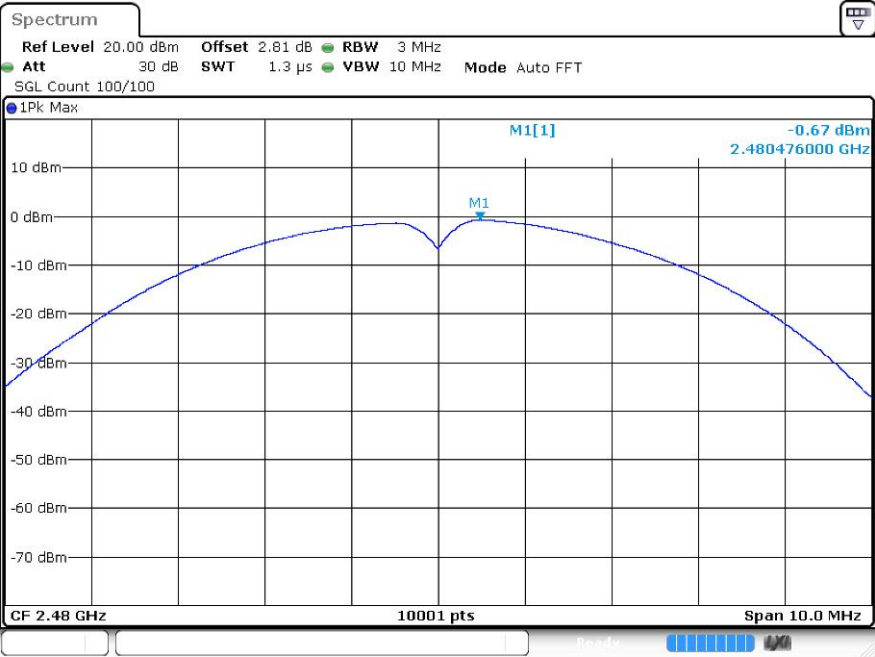


GFSK/HCH



$\pi/4$ DQPSK/LCH



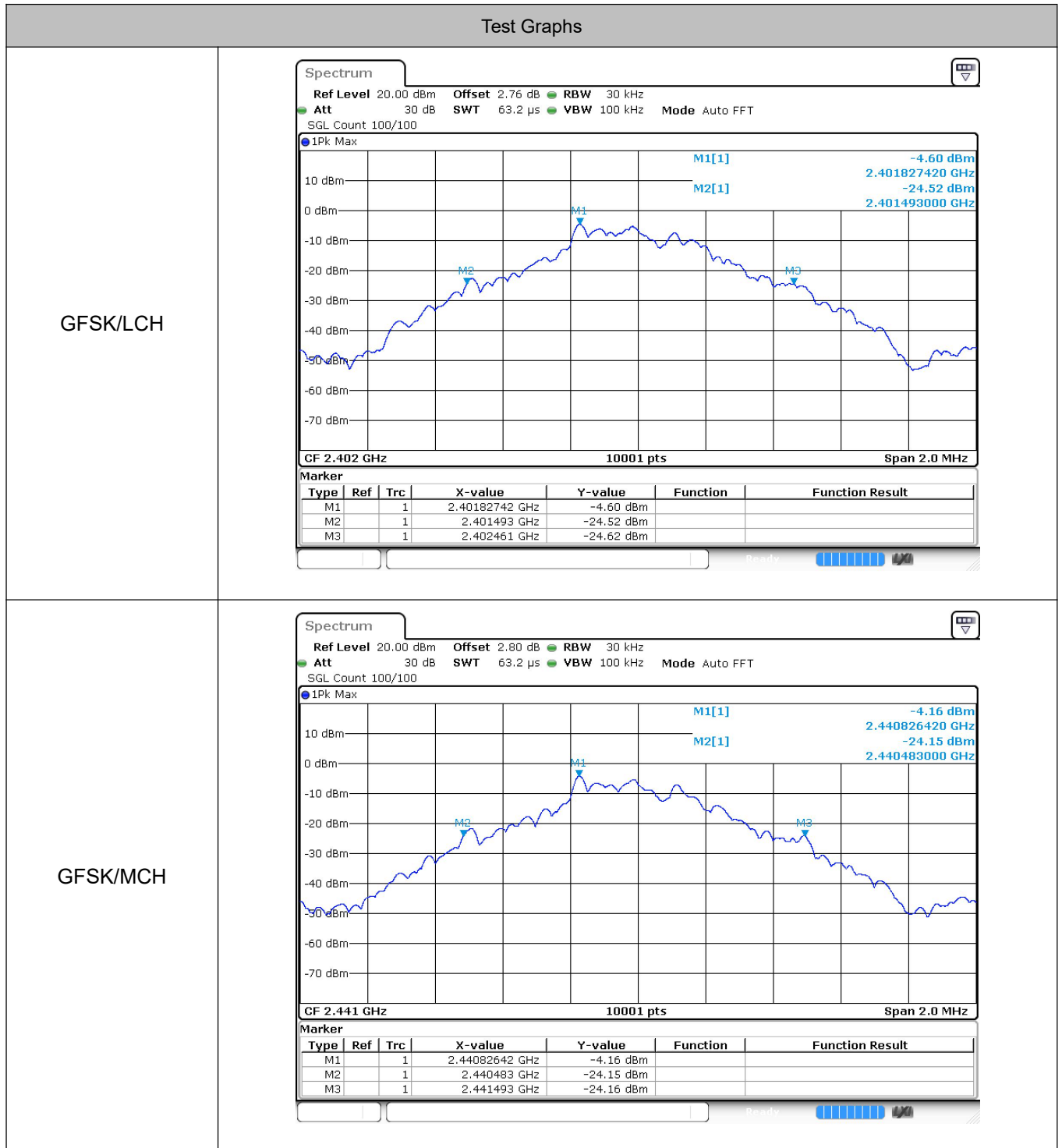
$\pi/4$DQPSK/MCH	
$\pi/4$DQPSK/HCH	

3 20dB Bandwidth

3.1 Test Result

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.968	Not Specified	Pass
	MCH	1.01	Not Specified	Pass
	HCH	1.028	Not Specified	Pass
$\pi/4$ DQPSK	LCH	1.248	Not Specified	Pass
	MCH	1.278	Not Specified	Pass
	HCH	1.226	Not Specified	Pass

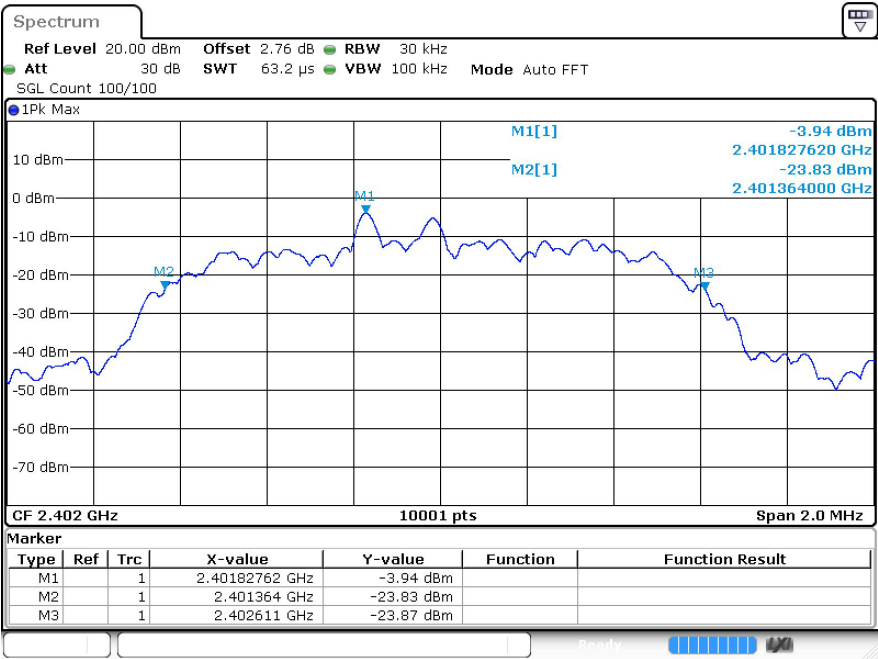
3.2 Test Graphs

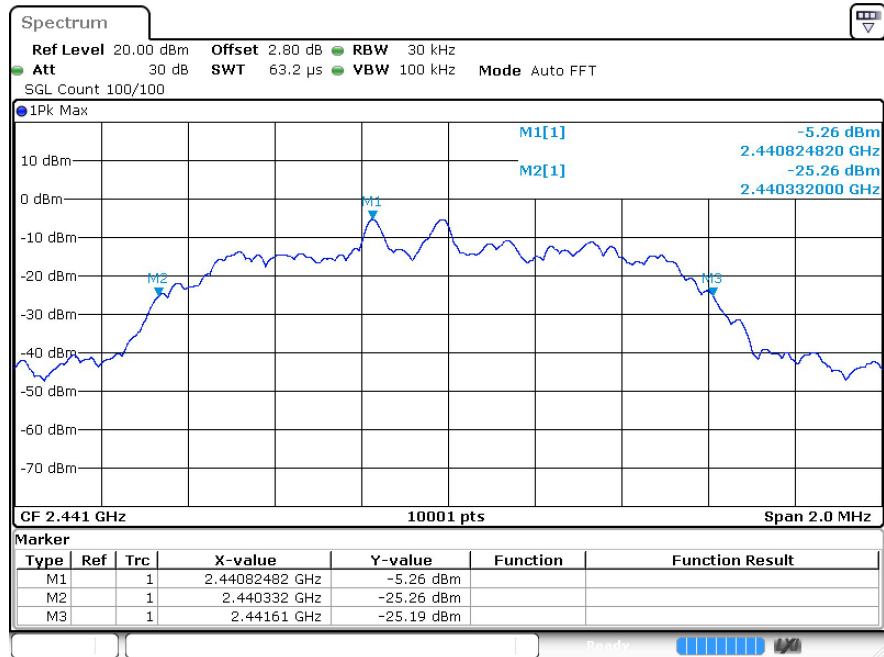
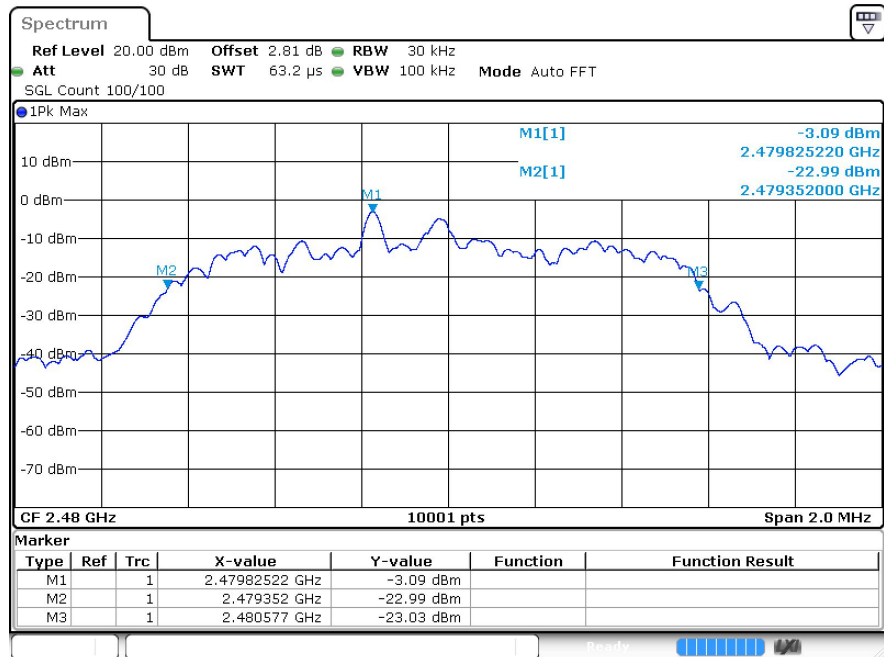


GFSK/HCH



$\pi/4$ DQPSK/LCH



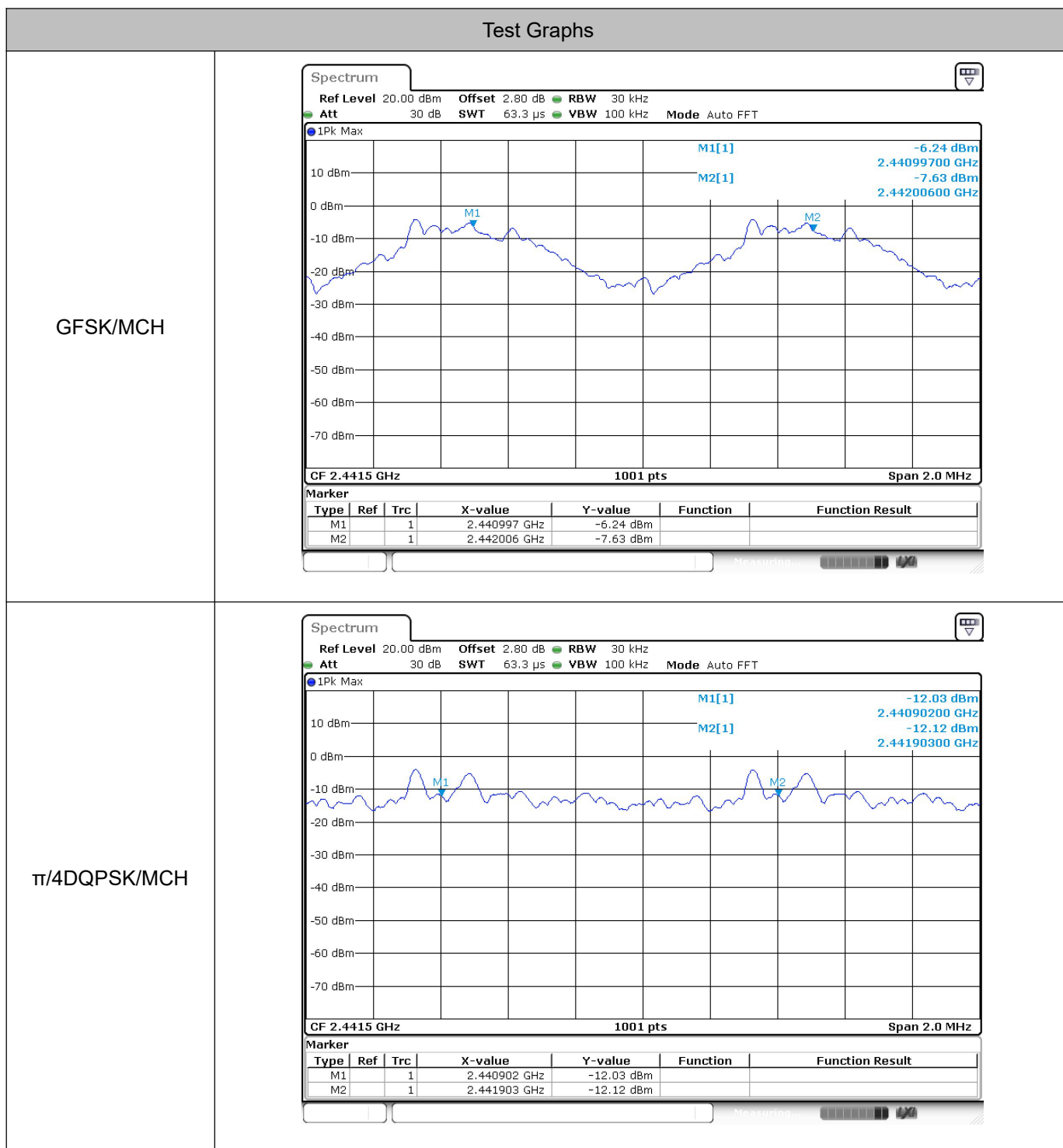
$\pi/4$ DQPSK/MCH

 $\pi/4$ DQPSK/HCH


4 Carrier Frequency Separation

4.1 Test Result

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	1.009	0.673	Pass
$\pi/4$ DQPSK	MCH	1.001	0.852	Pass

4.2 Test Graphs

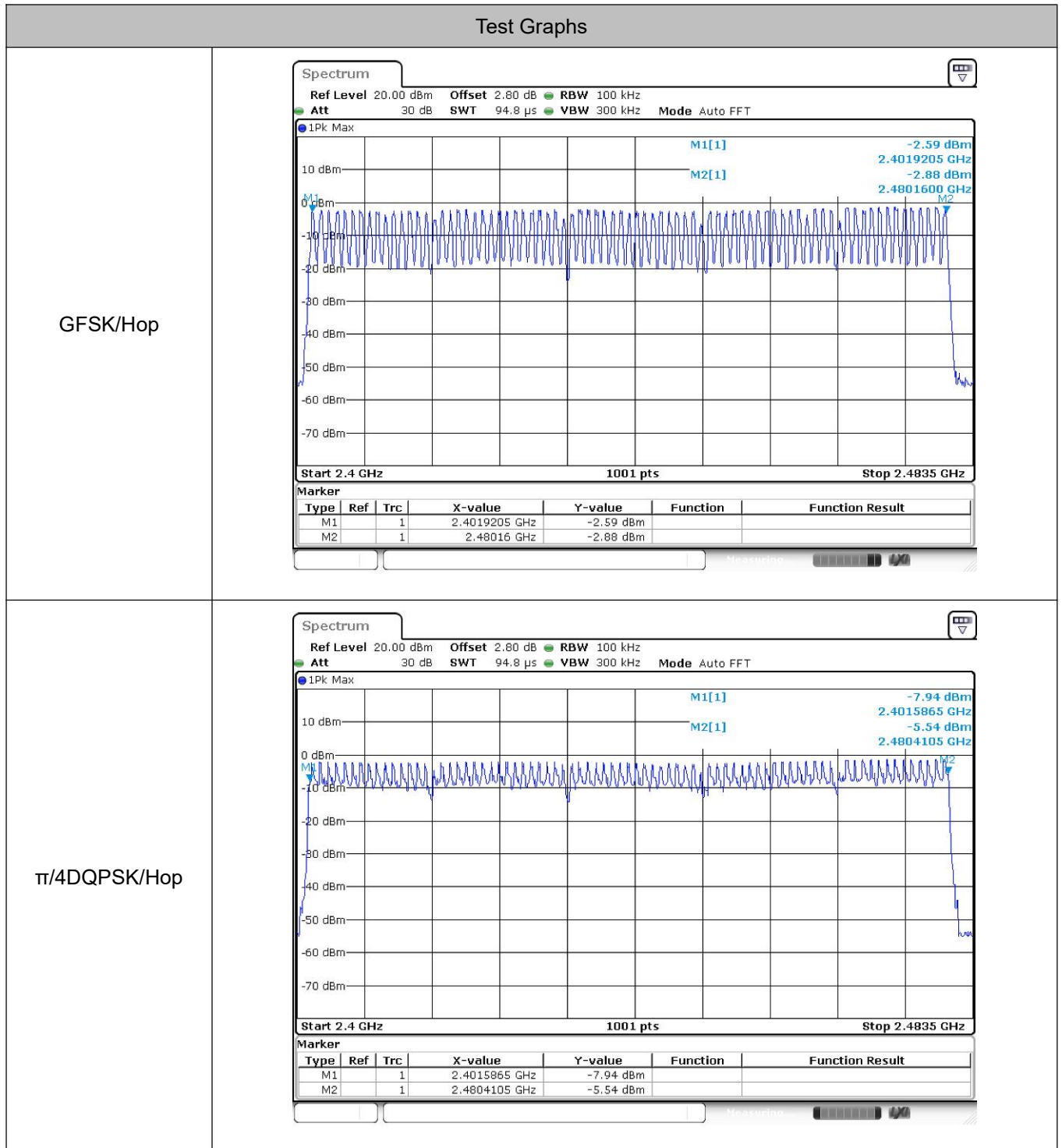


5 Hopping Channel Number

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

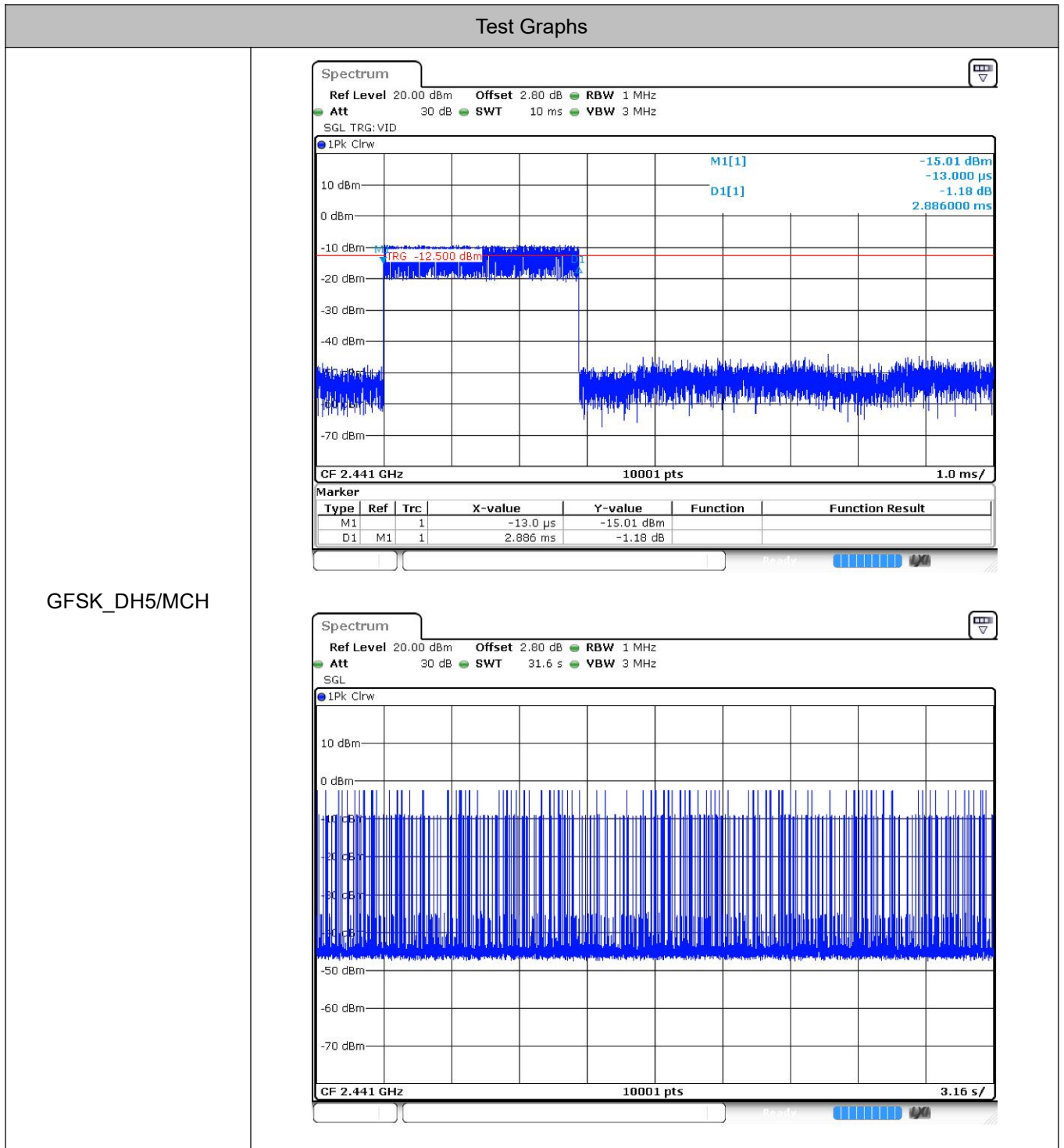


6 Dwell Time

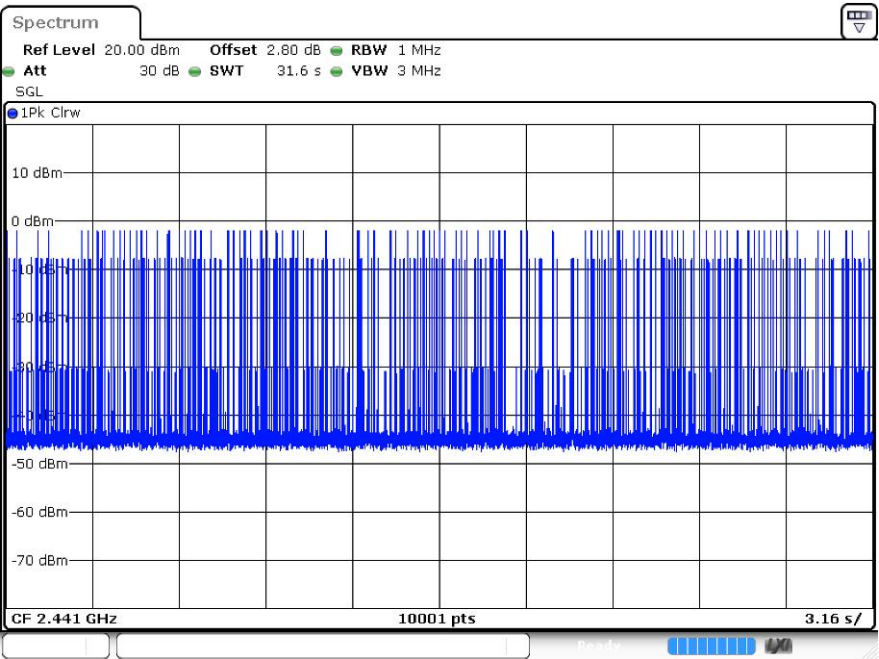
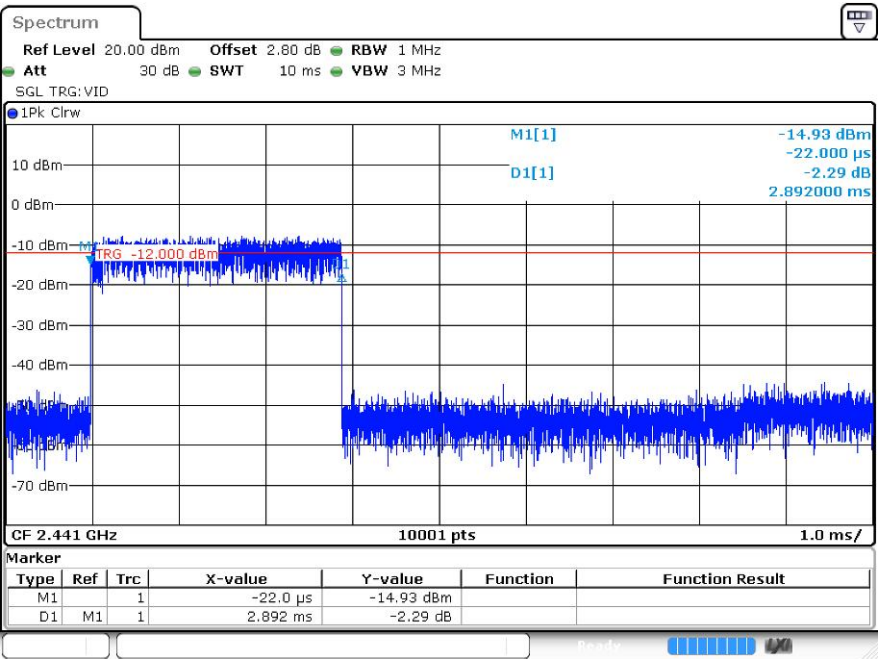
6.1 Test Result

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Limit [s]	Verdict
GFSK	DH5	MCH	2.886	113	326.118	0.4	Pass
$\pi/4$ DQPSK	2DH5	MCH	2.892	123	355.716	0.4	Pass

6.2 Test Graphs



$\pi/4$ DQPSK
_2DH5/MCH



7 RF Conducted Spurious Emissions

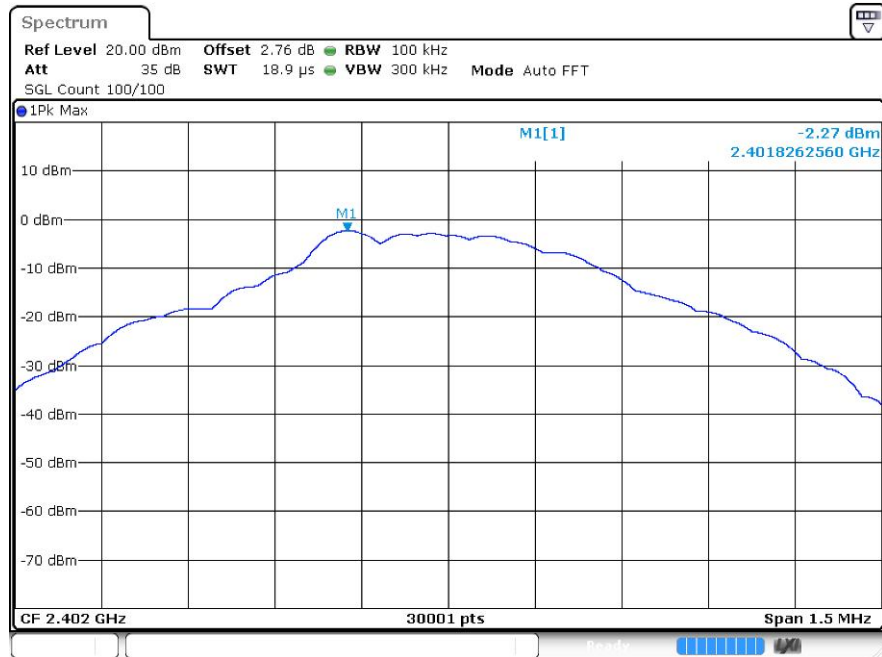
7.1 Test Result

Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-39.06	-20	Pass
	MCH	-38.1	-20	Pass
	HCH	-40	-20	Pass
$\pi/4$ DQPSK	LCH	-39.09	-20	Pass
	MCH	-38.49	-20	Pass
	HCH	-39.77	-20	Pass

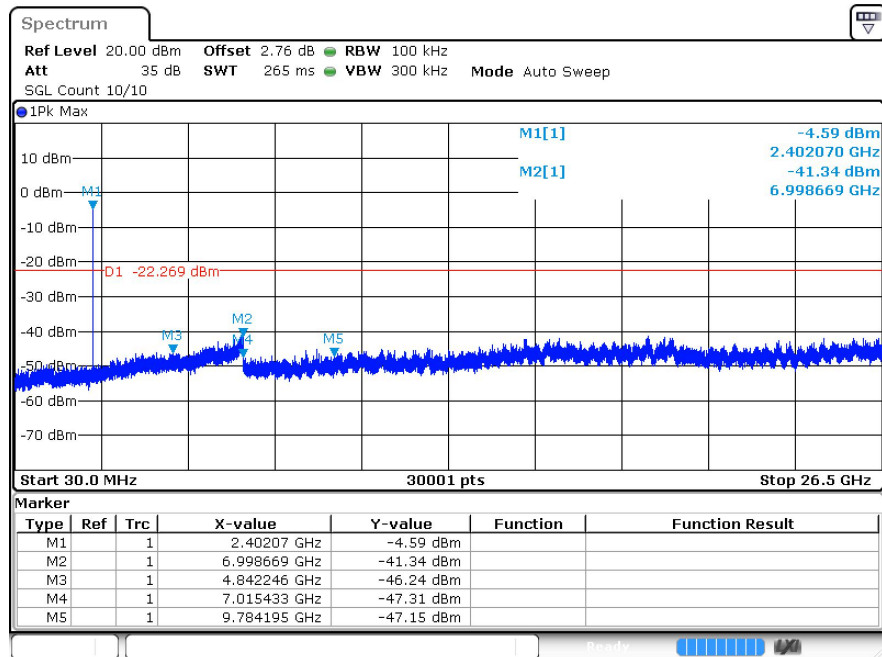
7.2 Test Graphs

GFSK_LCH_Graphs

Pref

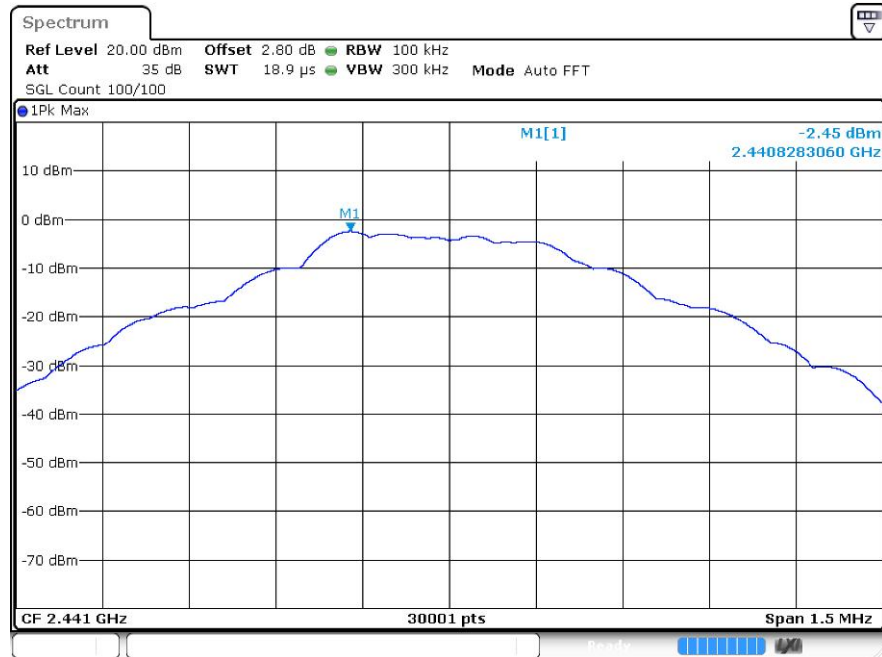


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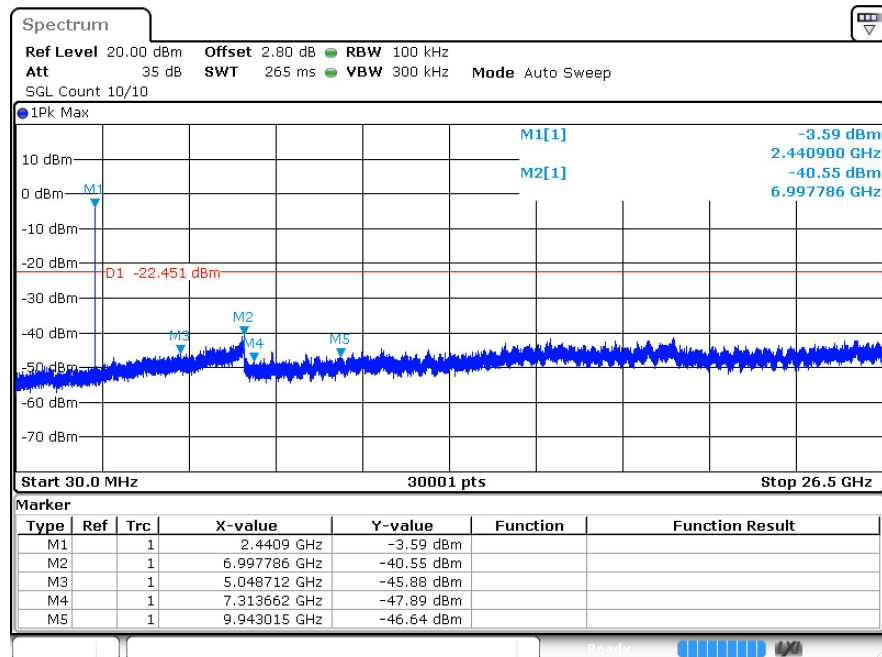


GFSK_MCH_Graphs

Pref

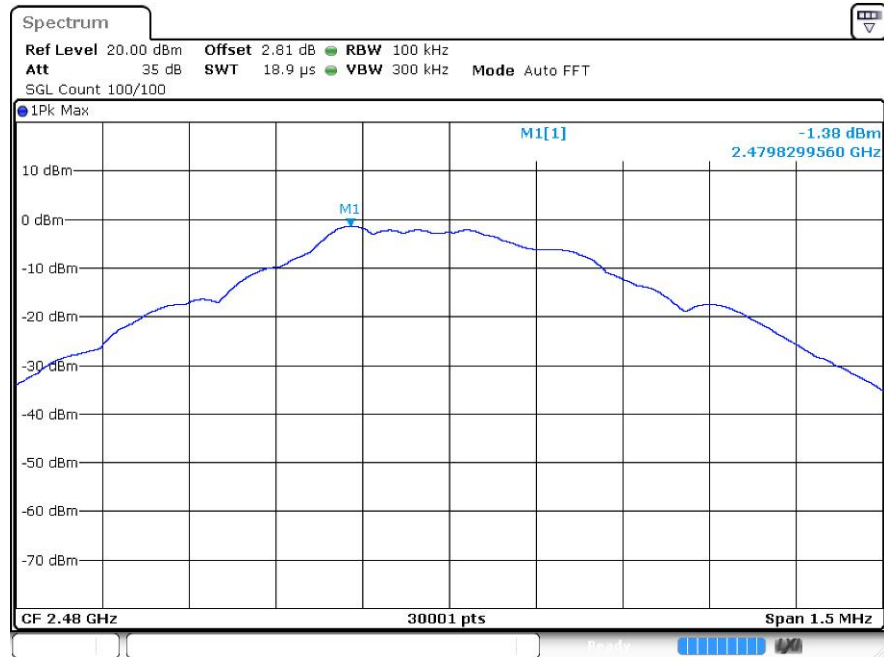


Puw

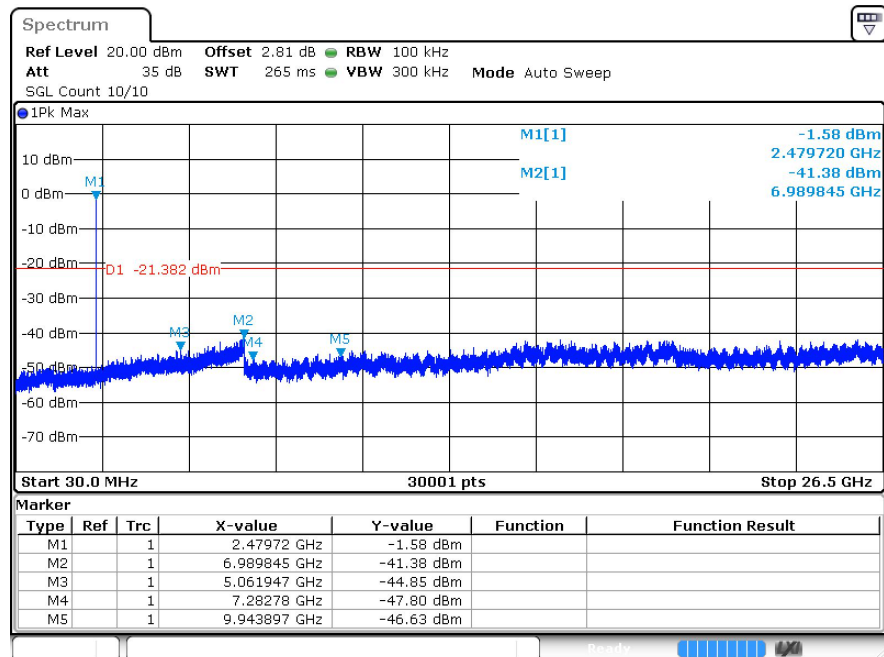


GFSK_HCH_Graphs

Pref

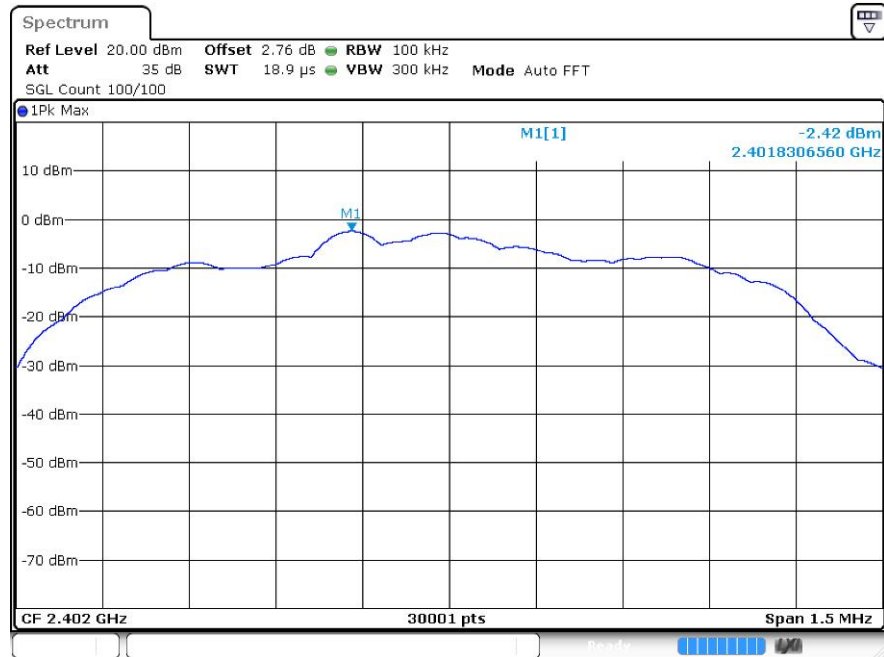


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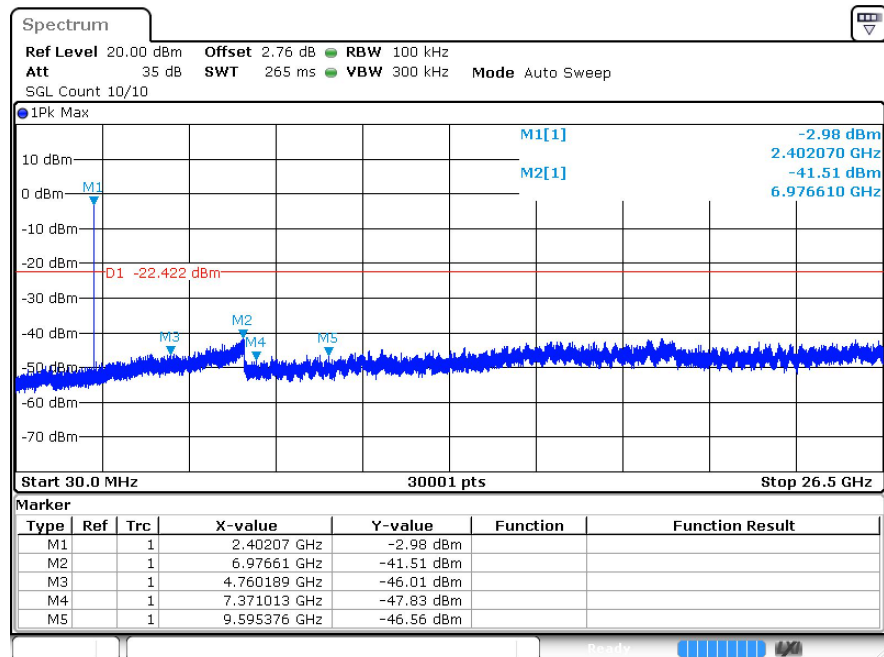


$\pi/4$ DQPSK_LCH_Graphs

Pref

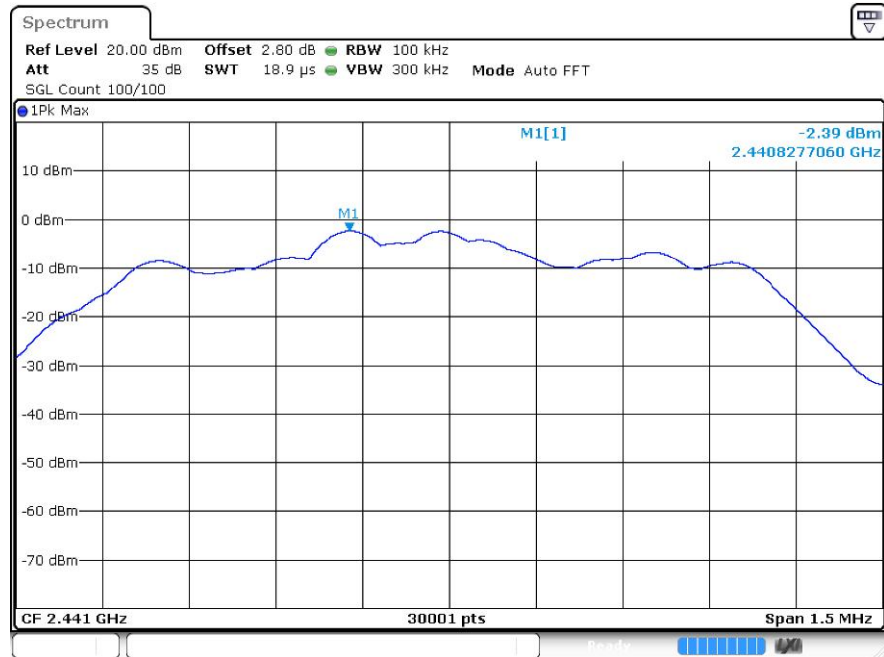


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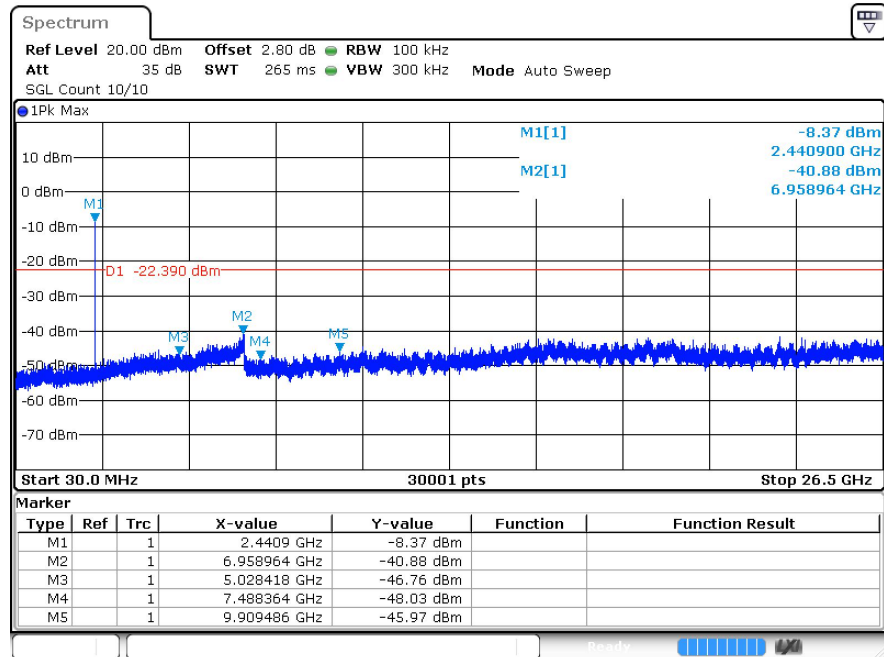


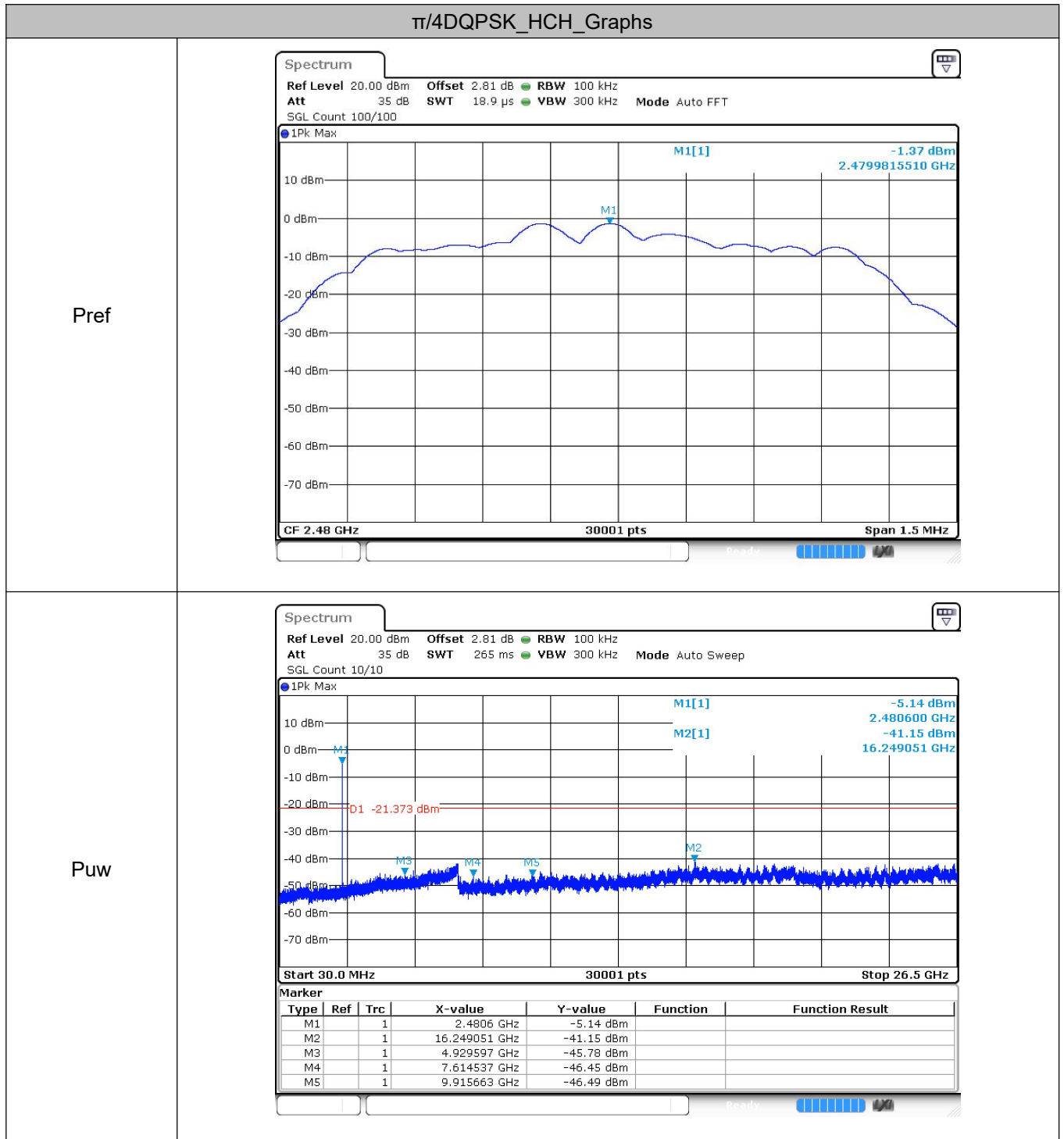
$\pi/4$ DQPSK_MCH_Graphs

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	-52.51	-20	Pass
			On	-51.46	-20	Pass
	HCH	2480	Off	-52.19	-20	Pass
			On	-52.01	-20	Pass
$\pi/4$ DQPSK	LCH	2402	Off	-52.94	-20	Pass
			On	-51.84	-20	Pass
	HCH	2480	Off	-52.37	-20	Pass
			On	-51.5	-20	Pass

8.2 Test Graphs

