



Appendix A

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

Product Name: Vinyl record player

Trade Mark: N/A

Test Model: A4

Environmental Conditions

Temperature:	24.6°C
Relative Humidity:	50.4%
ATM Pressure:	101Kpa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen

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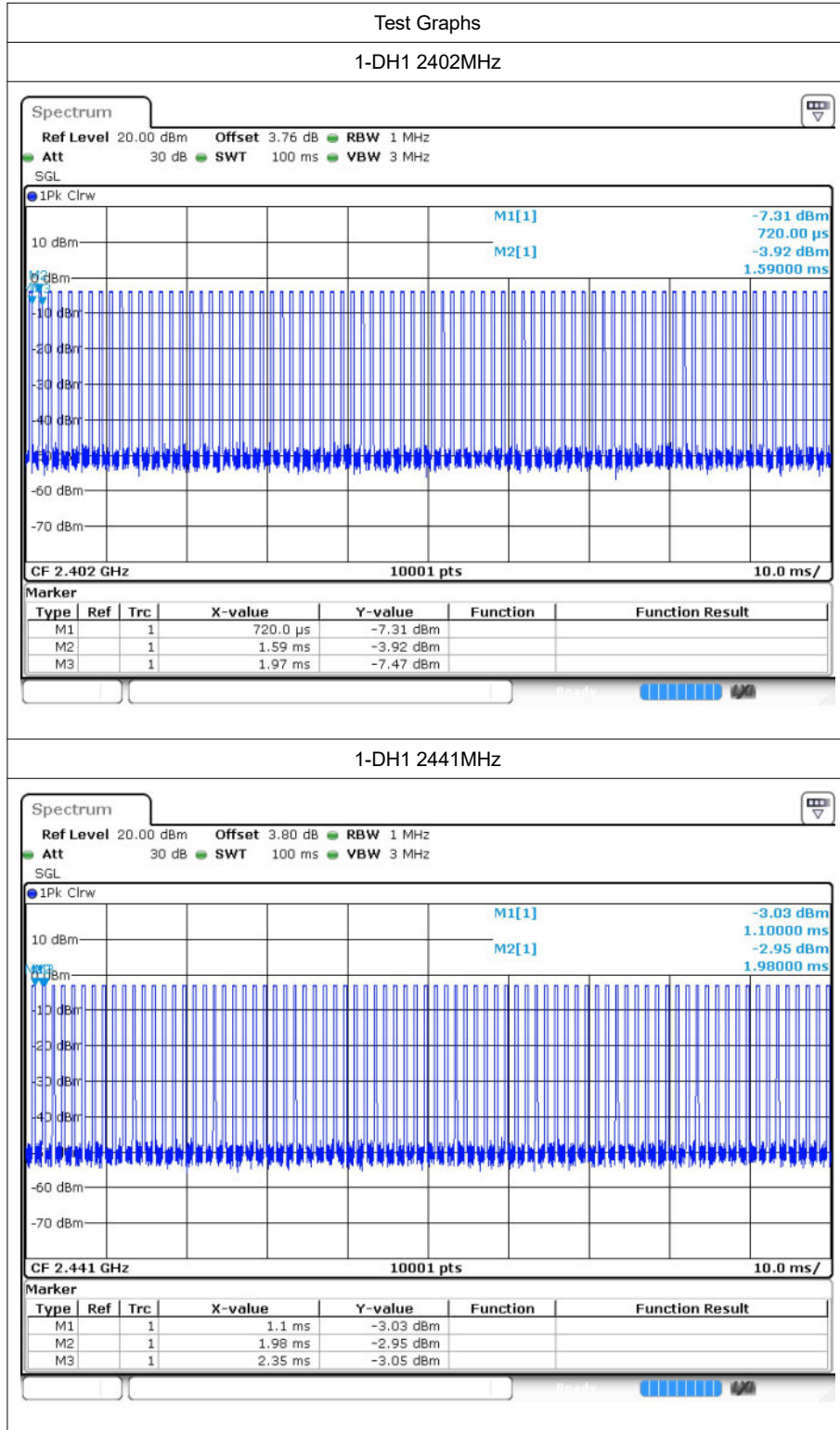
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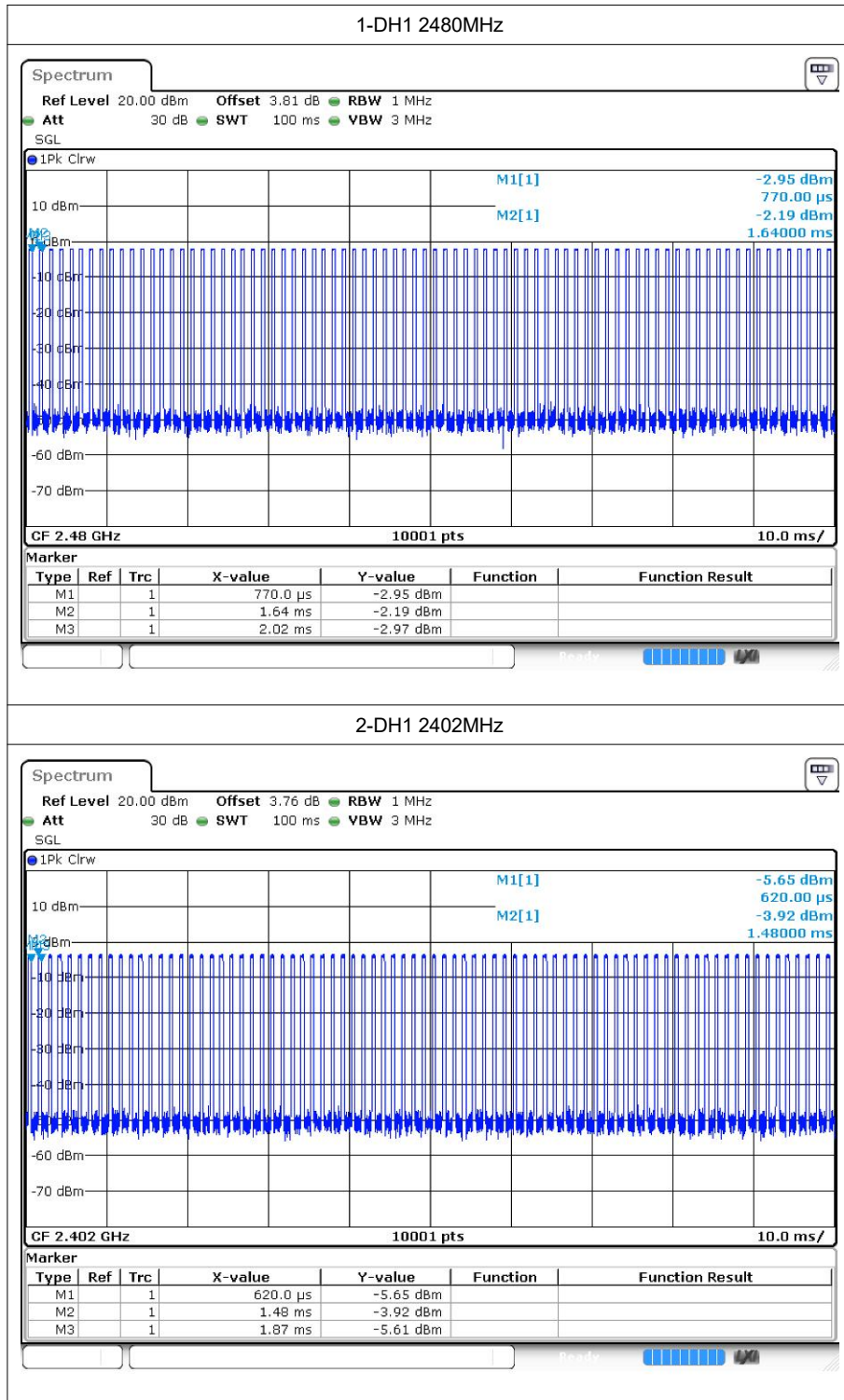
1 Duty Cycle

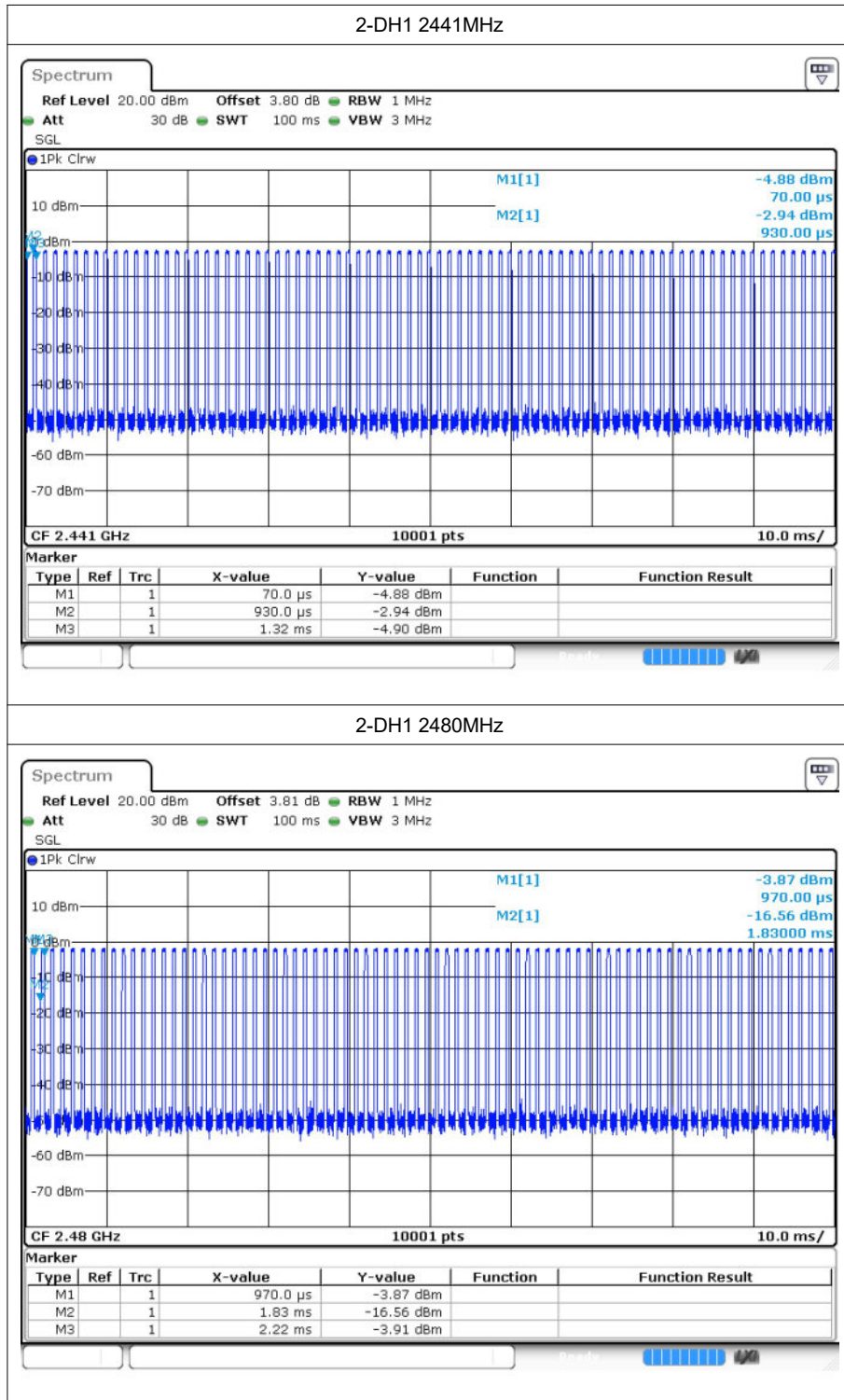
1.1 Test Result

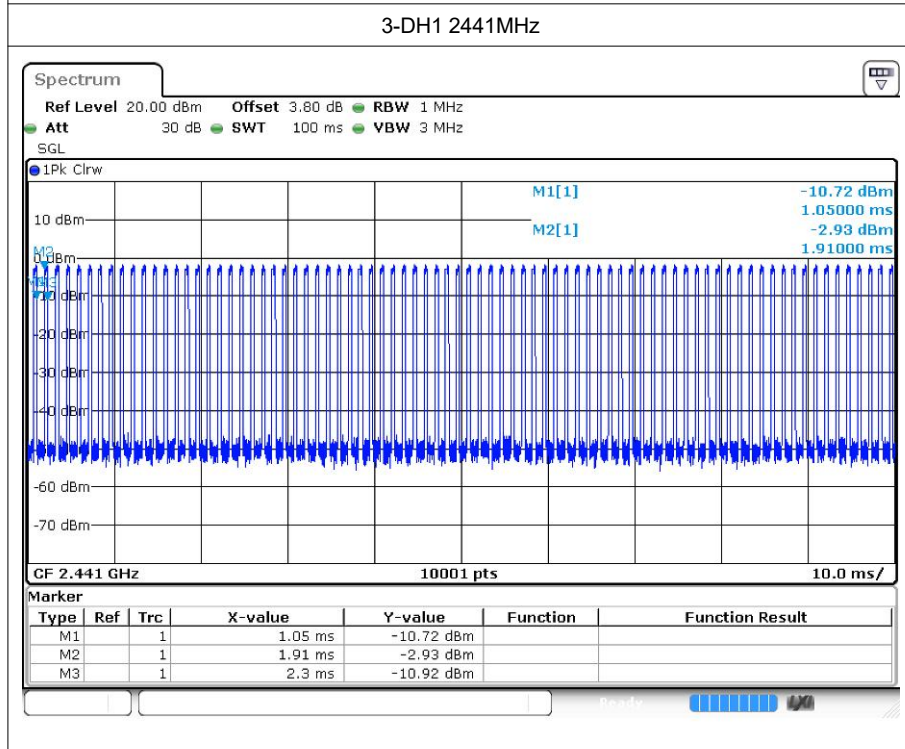
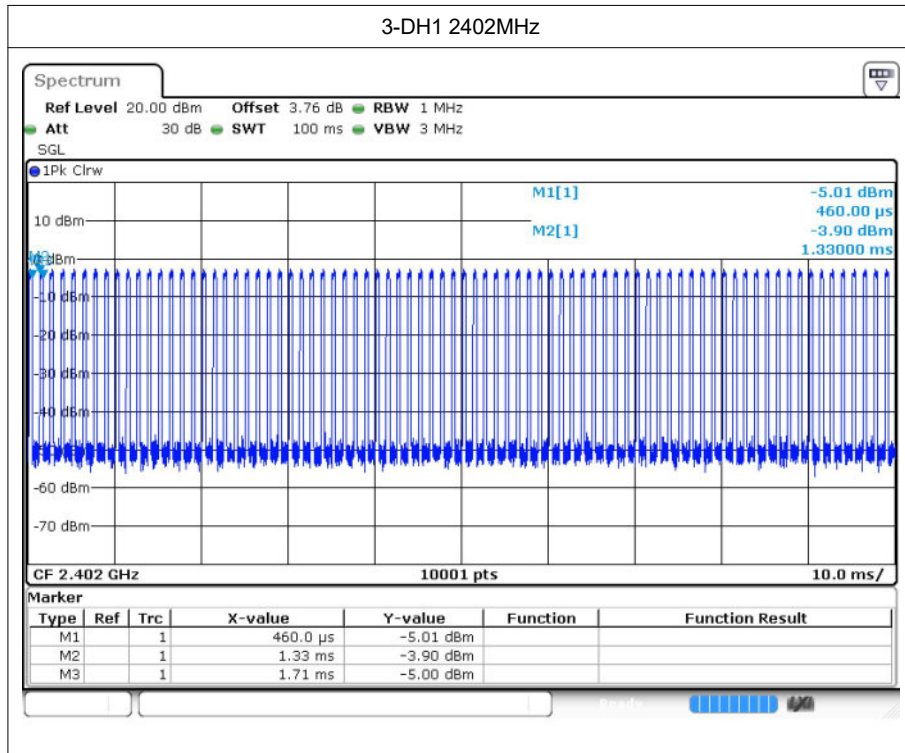
Mode	Frequency (MHz)	Duty Cycle (%)	1/T (kHz)	Correction Factor (dB)
1-DH1	2402	31.05	2.63	5.08
1-DH1	2441	30.4	2.7	5.17
1-DH1	2480	31.2	2.63	5.06
2-DH1	2402	32	2.56	4.95
2-DH1	2441	32.01	2.56	4.95
2-DH1	2480	32	2.56	4.95
3-DH1	2402	31.76	2.63	4.98
3-DH1	2441	31.64	2.56	5.00
3-DH1	2480	32	2.56	4.95

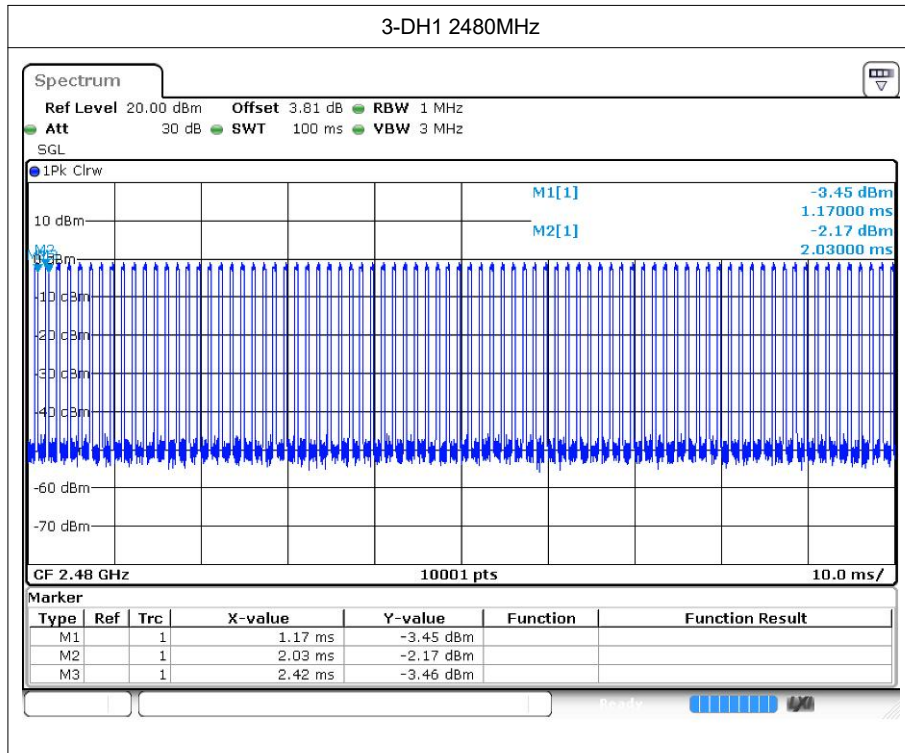
1.2 Test Graphs









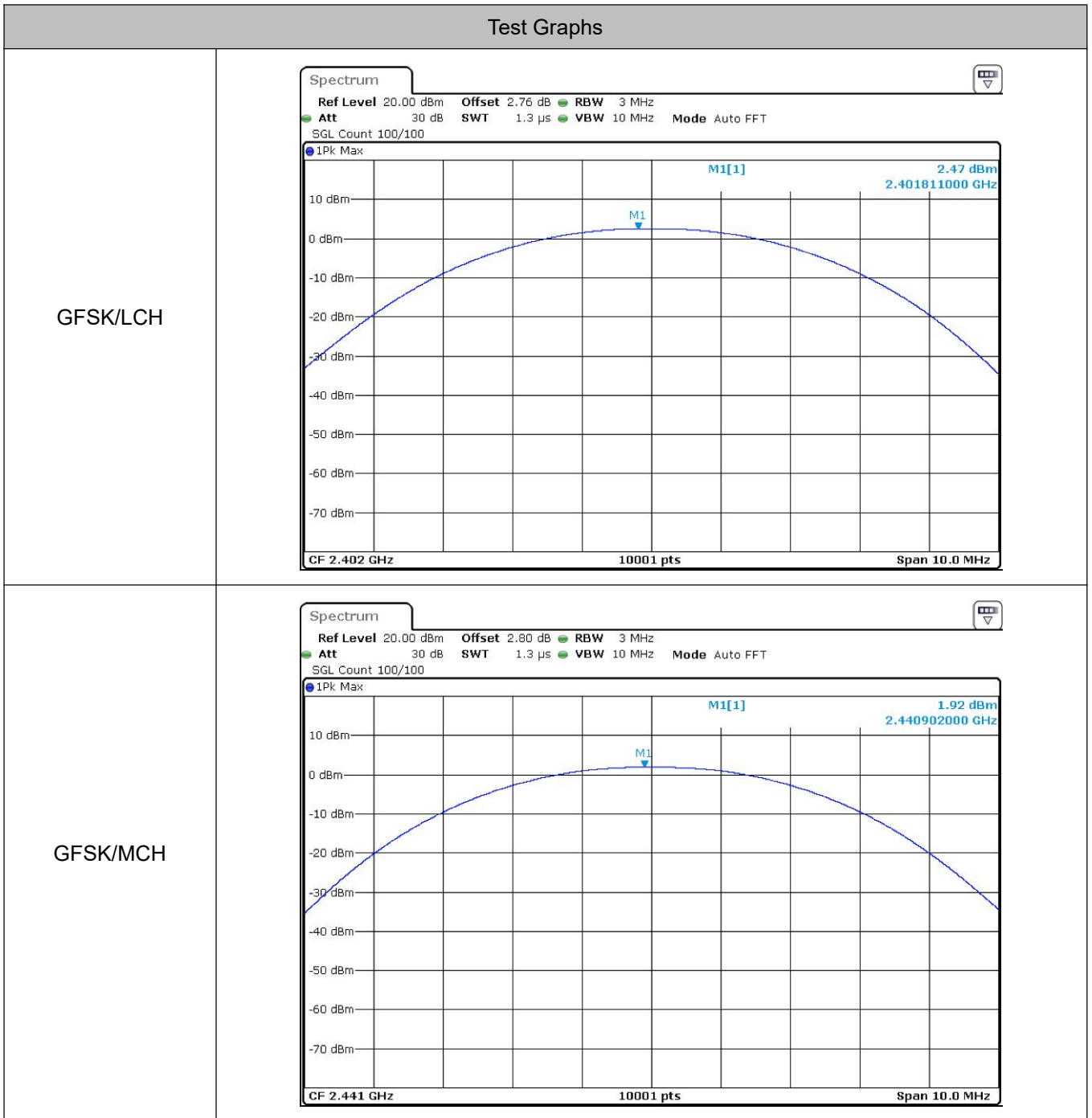


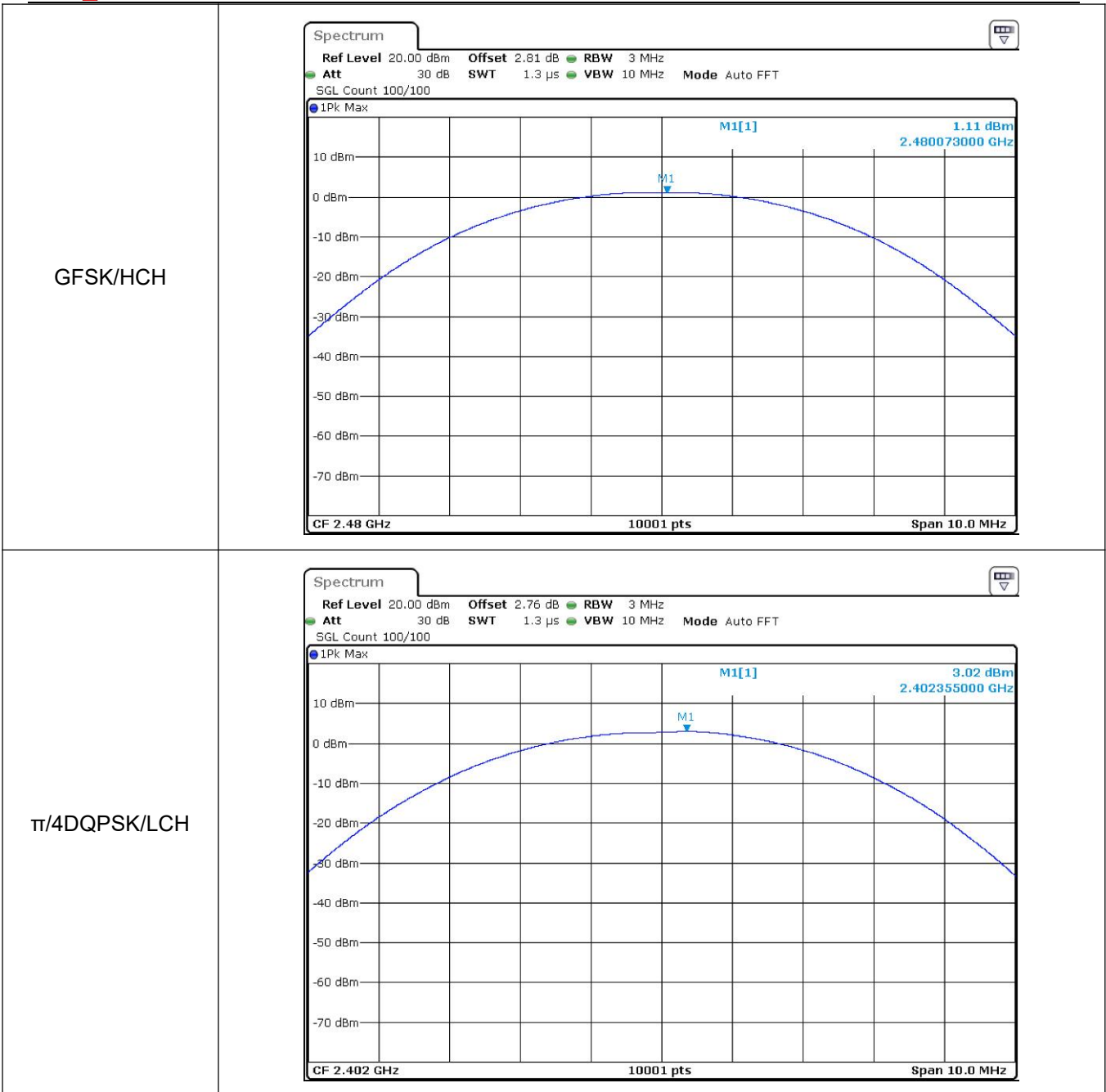
2 Maximum Conducted Peak Output Power

2.1 Test Result

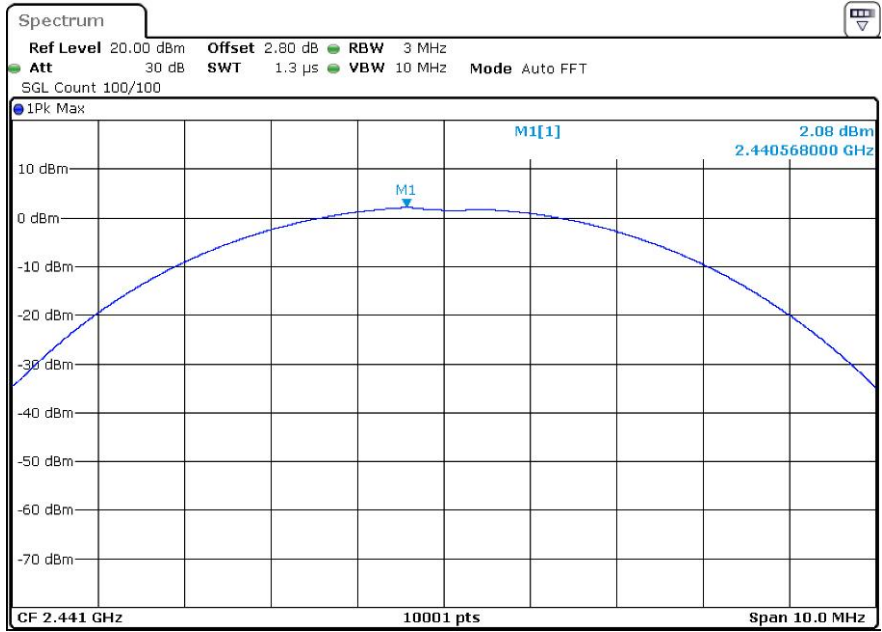
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2.47	21	Pass
	MCH	1.92	21	Pass
	HCH	1.11	21	Pass
$\pi/4$ DQPSK	LCH	3.02	21	Pass
	MCH	2.08	21	Pass
	HCH	1.41	21	Pass
8DPSK	LCH	3	21	Pass
	MCH	2.28	21	Pass
	HCH	1.42	21	Pass

2.2 Test Graphs

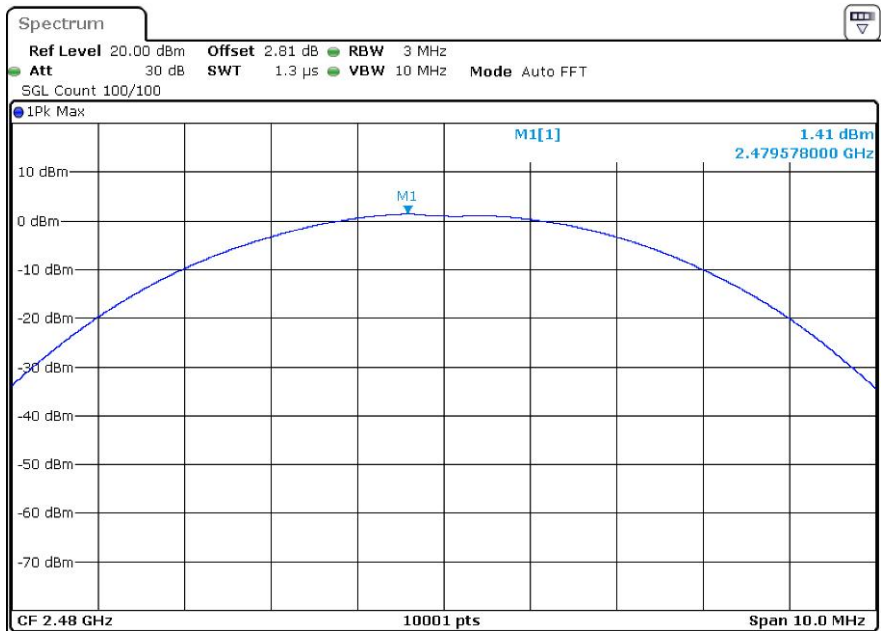


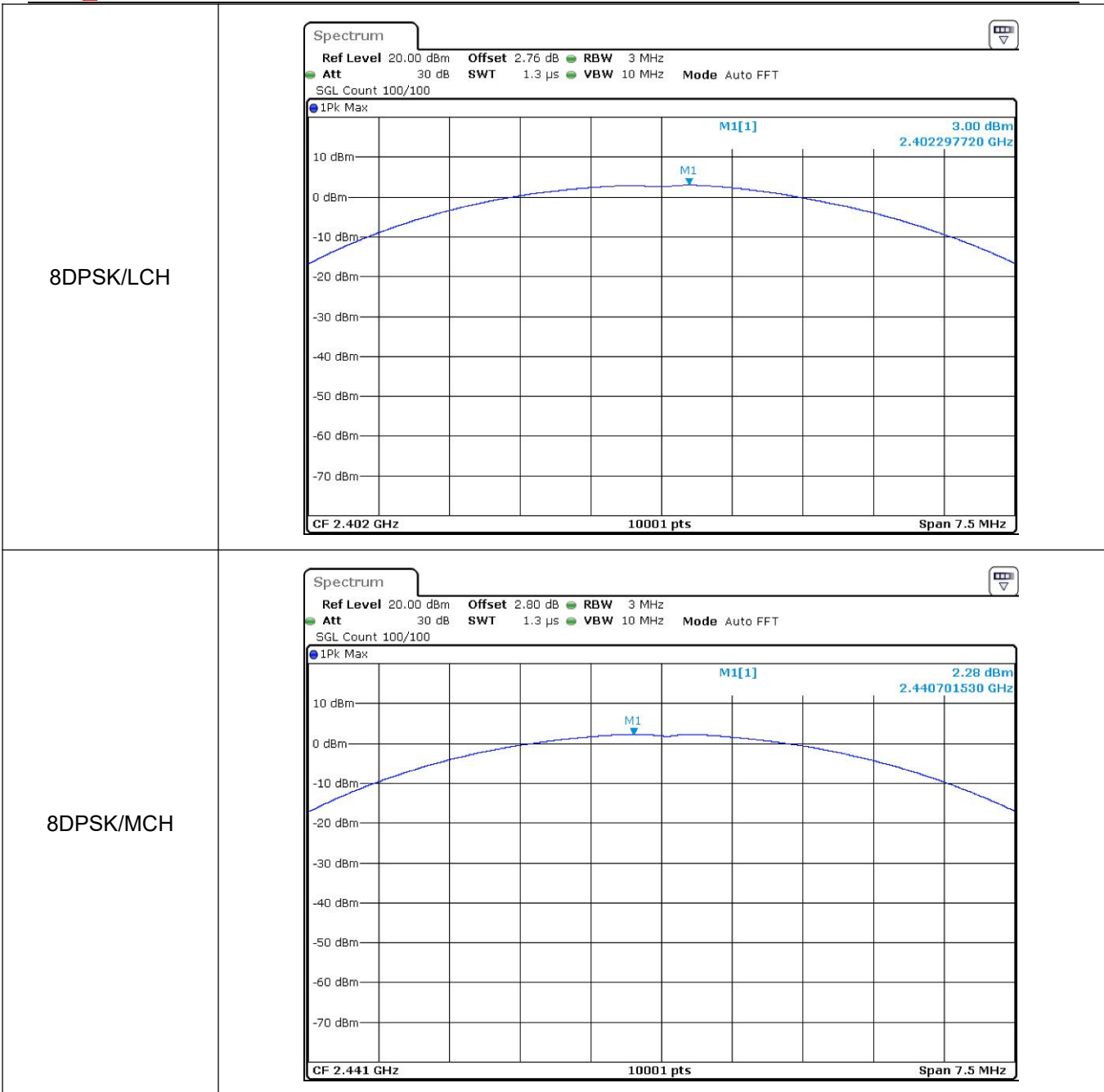


$\pi/4$ DQPSK/MCH



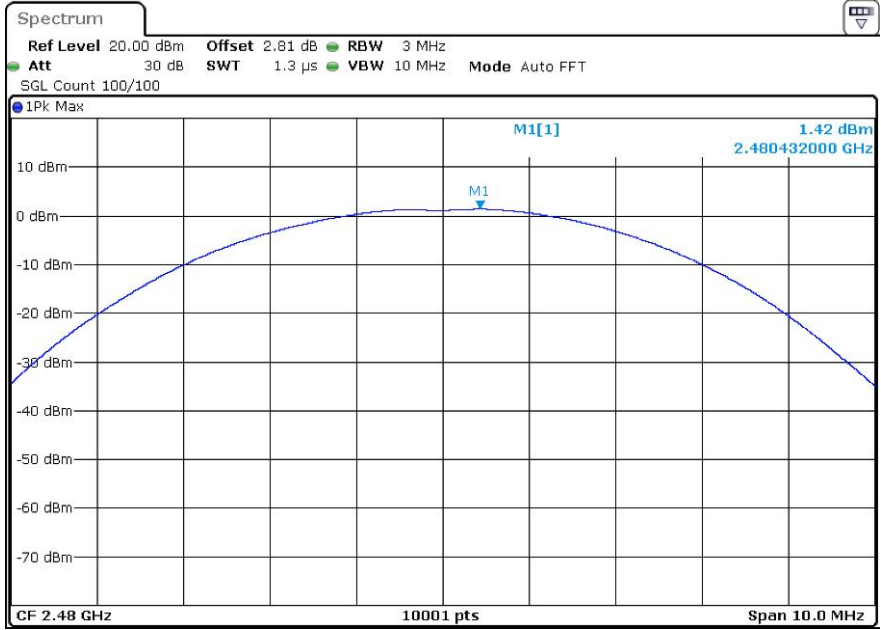
$\pi/4$ DQPSK/HCH







8DPSK/HCH

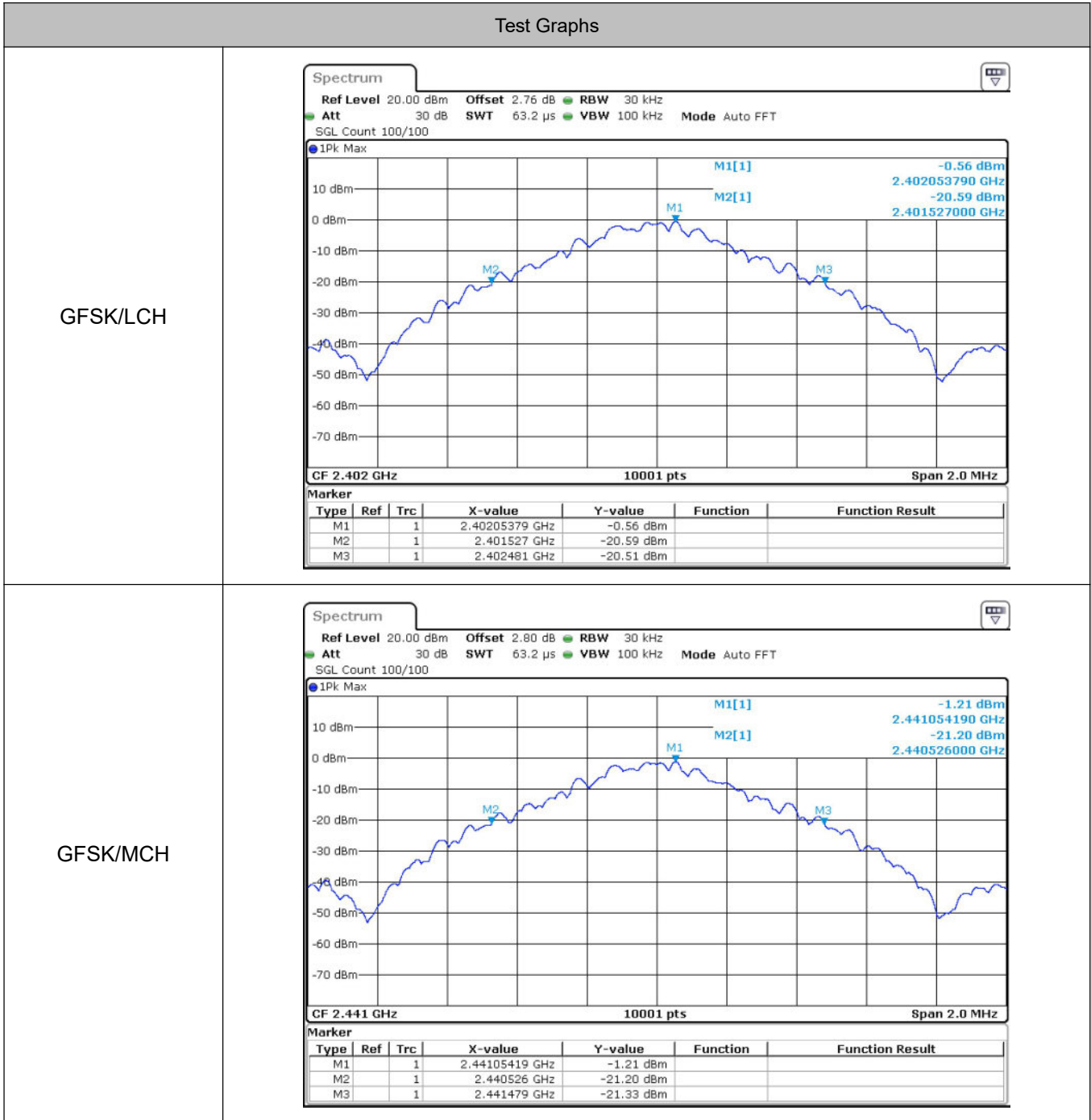


3 20dB Bandwidth

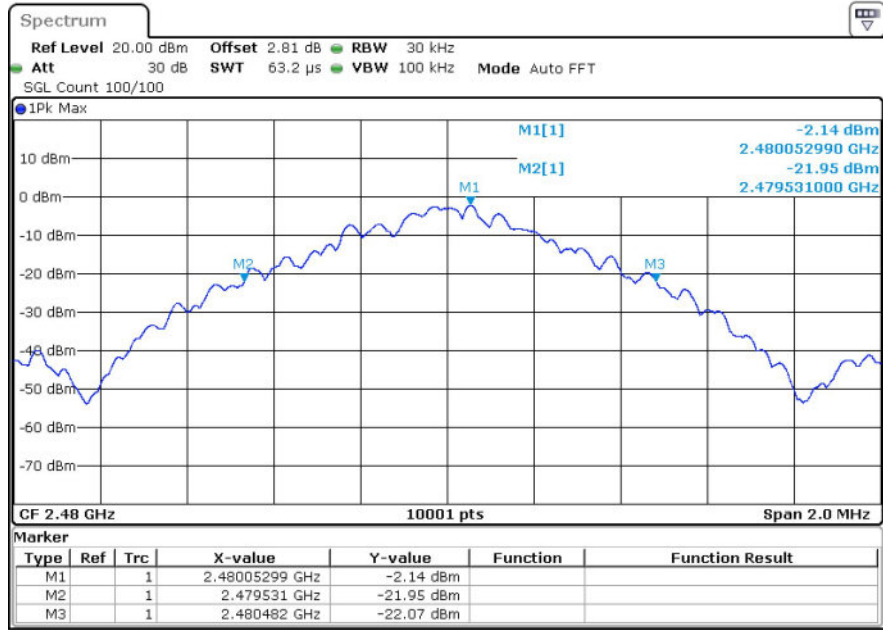
3.1 Test Result

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.954	Not Specified	Pass
	MCH	0.953	Not Specified	Pass
	HCH	0.952	Not Specified	Pass
$\pi/4$ DQPSK	LCH	1.354	Not Specified	Pass
	MCH	1.352	Not Specified	Pass
	HCH	1.359	Not Specified	Pass
8DPSK	LCH	1.346	Not Specified	Pass
	MCH	1.343	Not Specified	Pass
	HCH	1.346	Not Specified	Pass

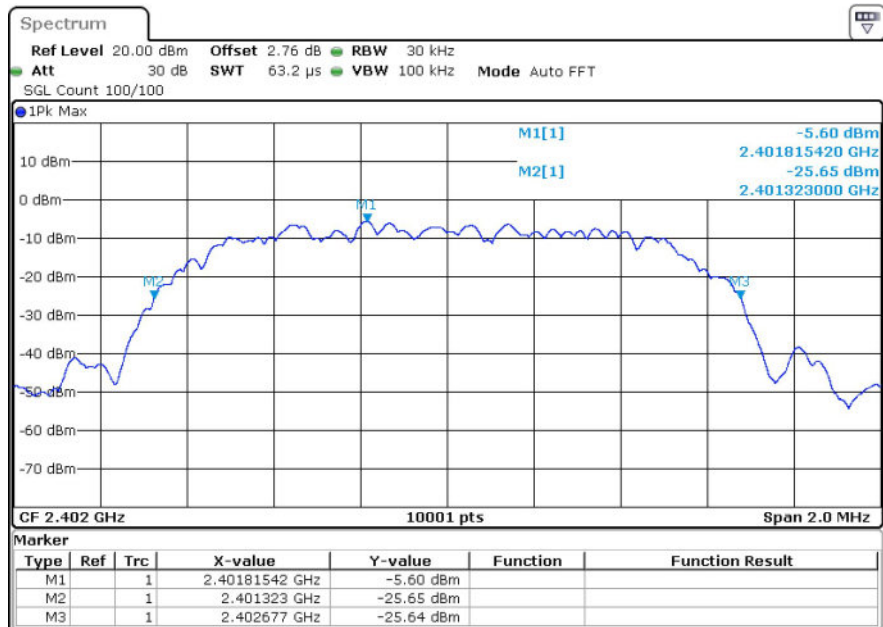
3.2 Test Graphs



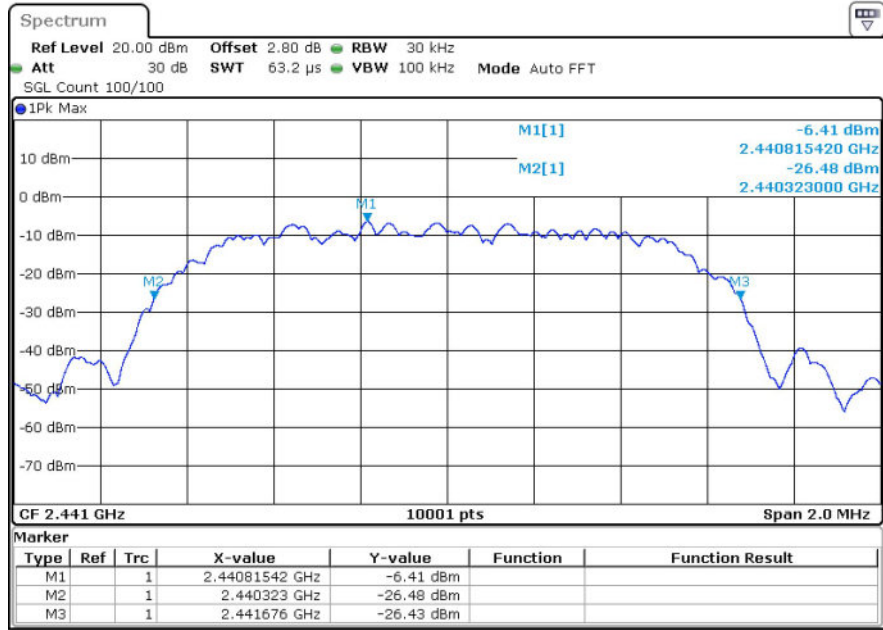
GFSK/HCH



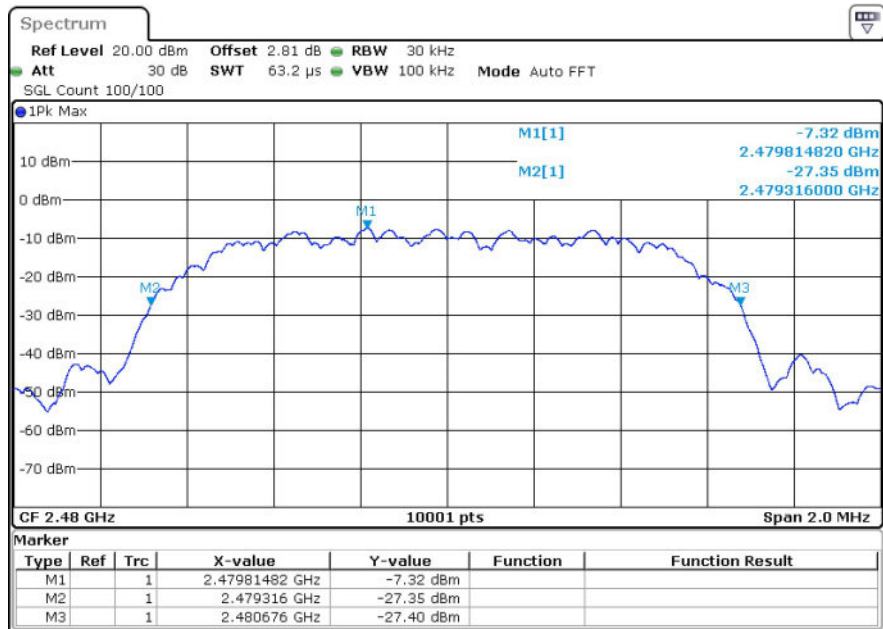
$\pi/4$ DQPSK/LCH



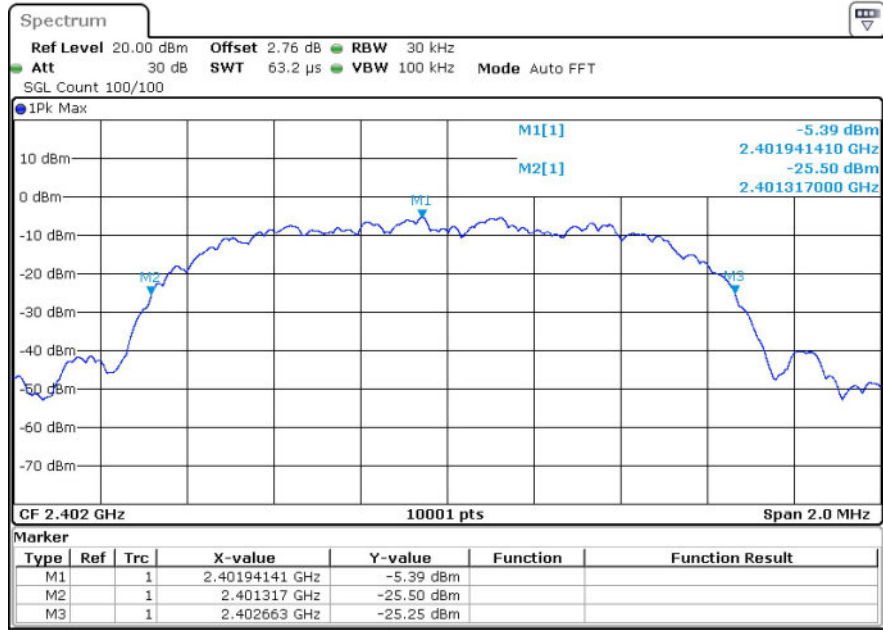
$\pi/4$ DQPSK/MCH



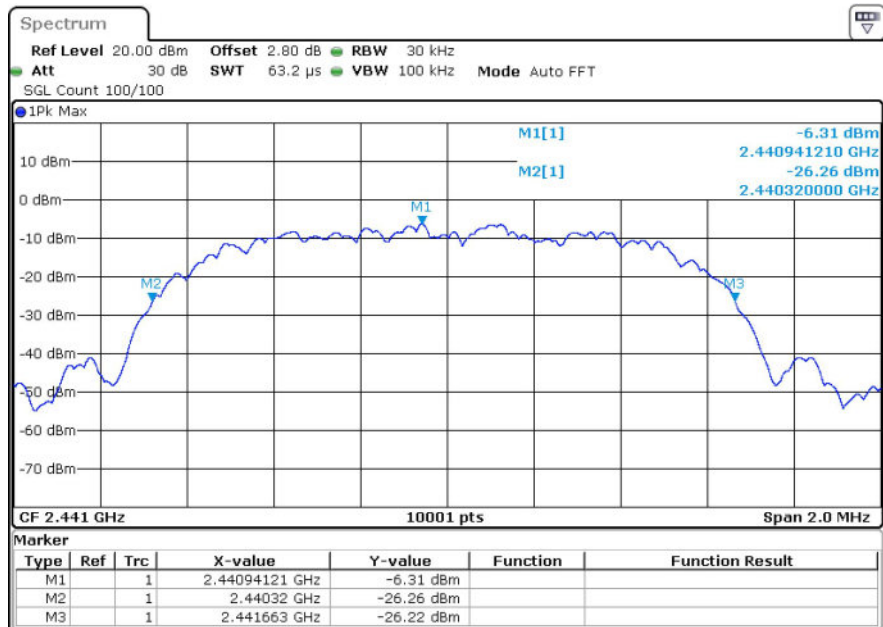
$\pi/4$ DQPSK/HCH



8DPSK/LCH

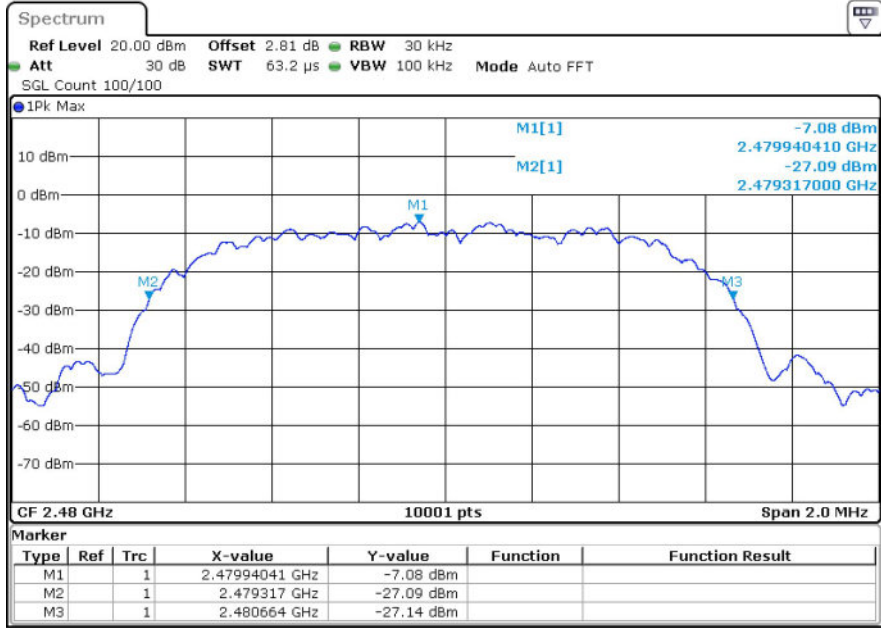


8DPSK/MCH





8DPSK/HCH



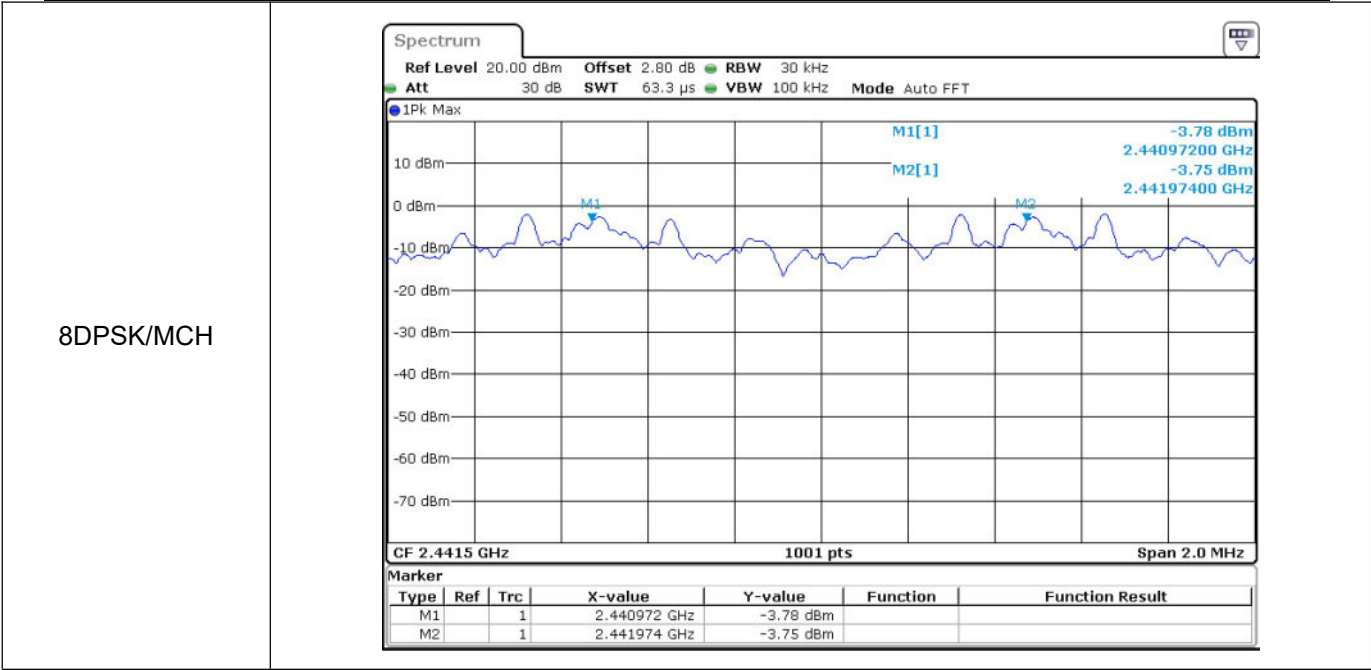
4 Carrier Frequency Separation

4.1 Test Result

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	0.998	0.635	Pass
$\pi/4$ DQPSK	MCH	1.026	0.901	Pass
8DPSK	MCH	1.002	0.895	Pass

4.2 Test Graphs



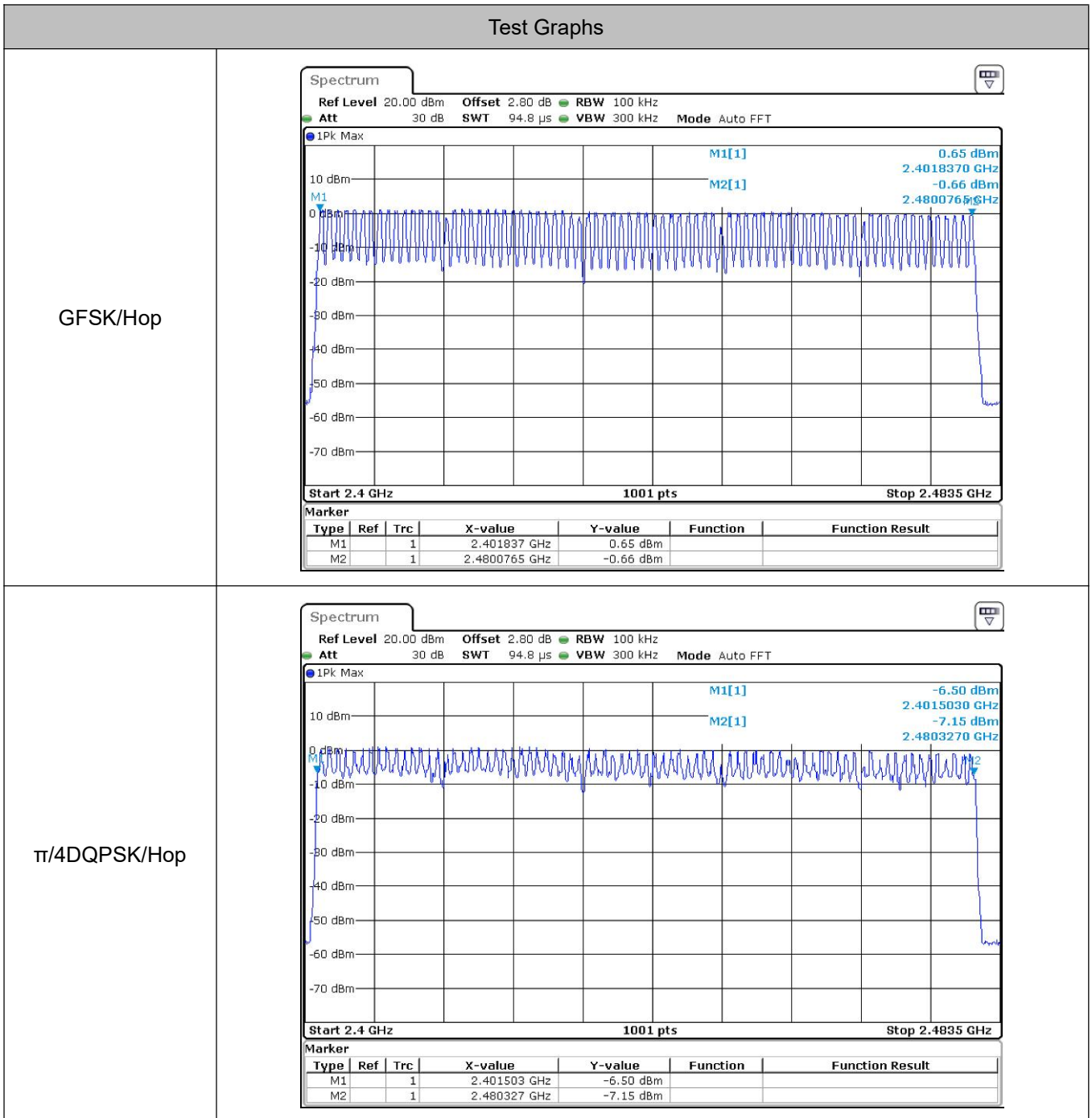


5 Hopping Channel Number

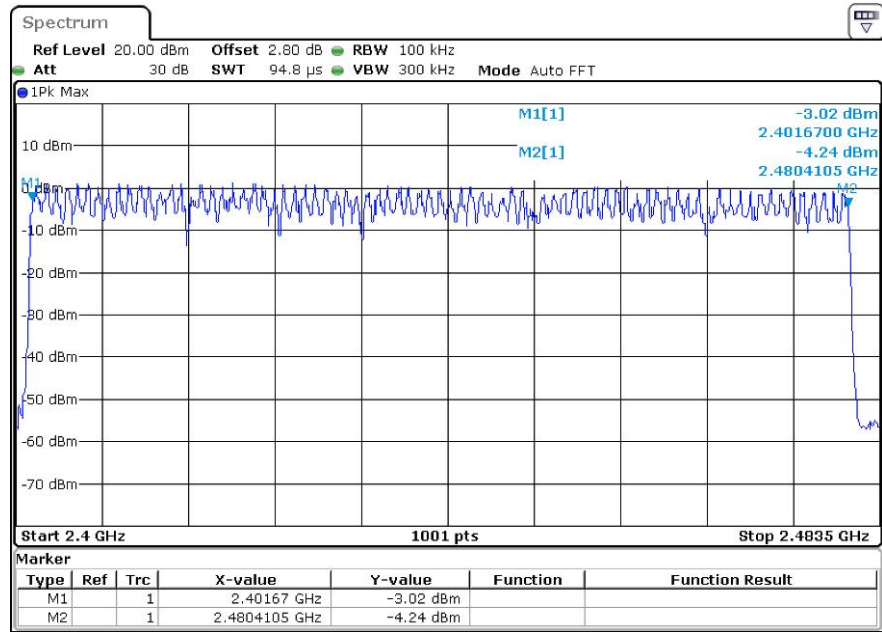
5.1 Test Result

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

5.2 Test Graphs



8DPSK/Hop

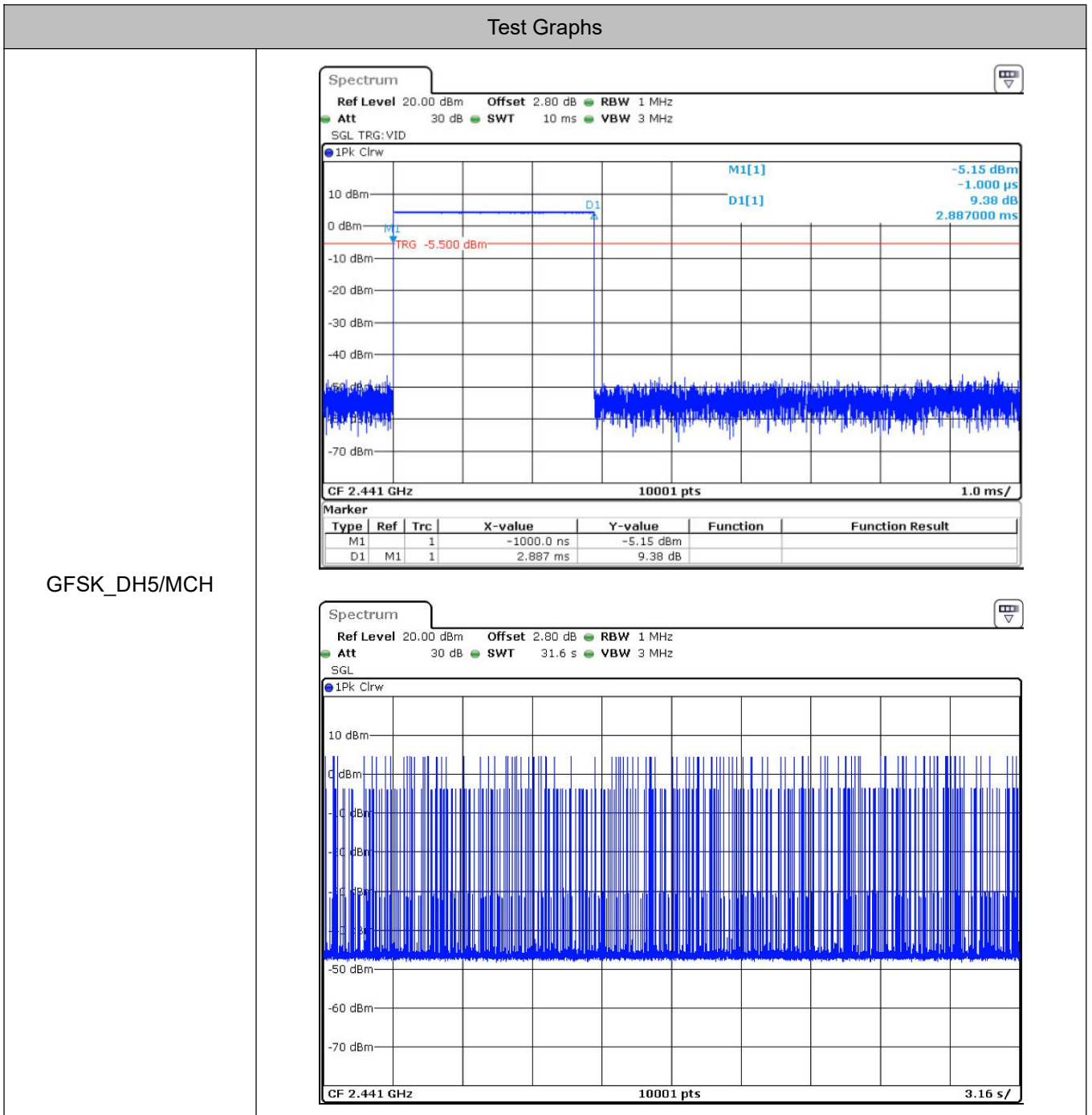


6 Dwell Time

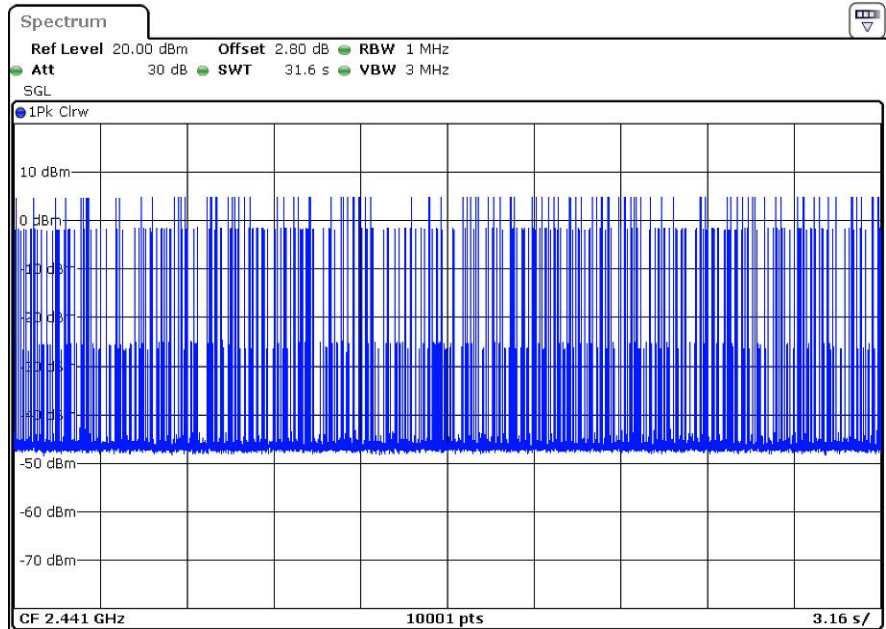
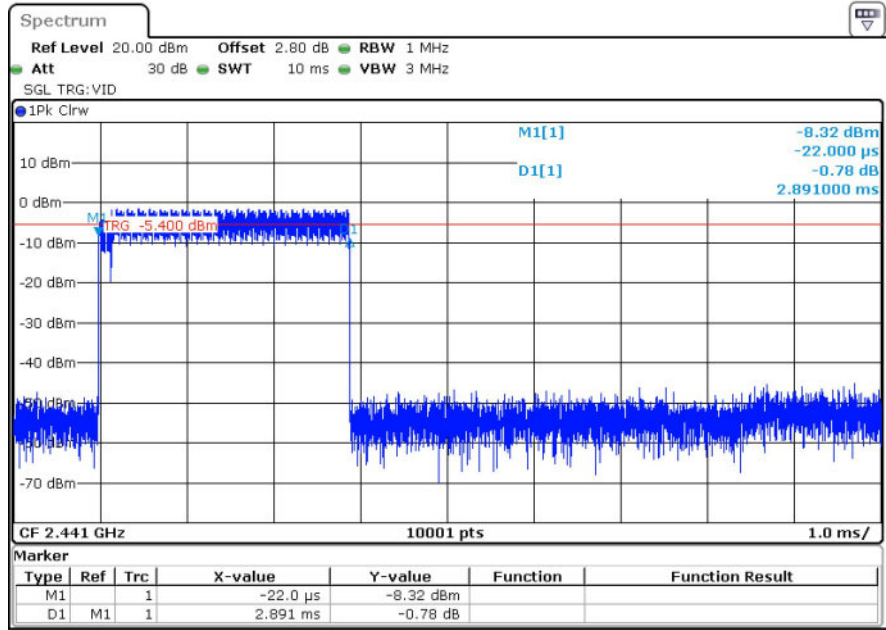
6.1 Test Result

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Limit [s]	Verdict
GFSK	DH5	MCH	2.887	111	320.457	0.4	Pass
$\pi/4$ DQPSK	2DH5	MCH	2.891	108	312.228	0.4	Pass
8DPSK	3DH5	MCH	2.893	117	338.481	0.4	Pass

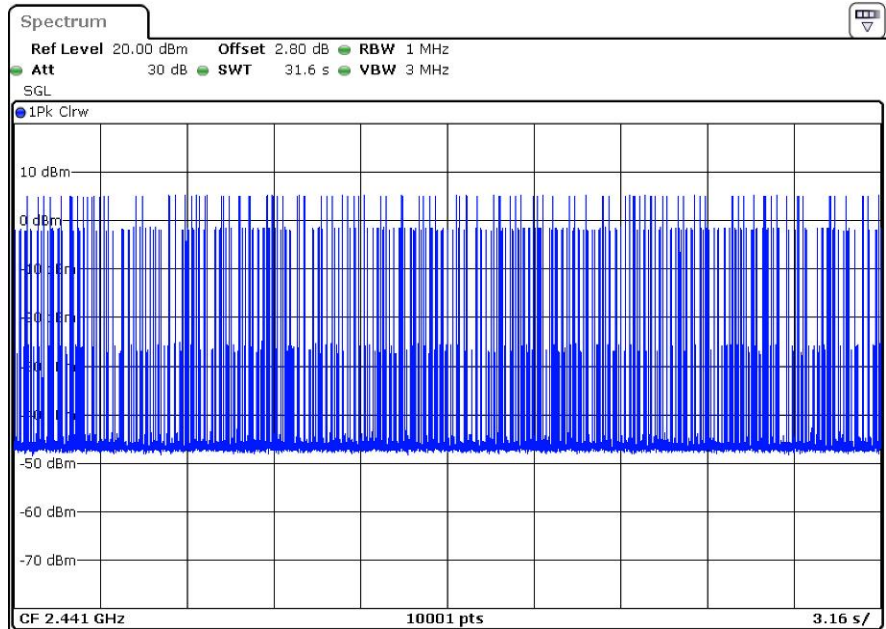
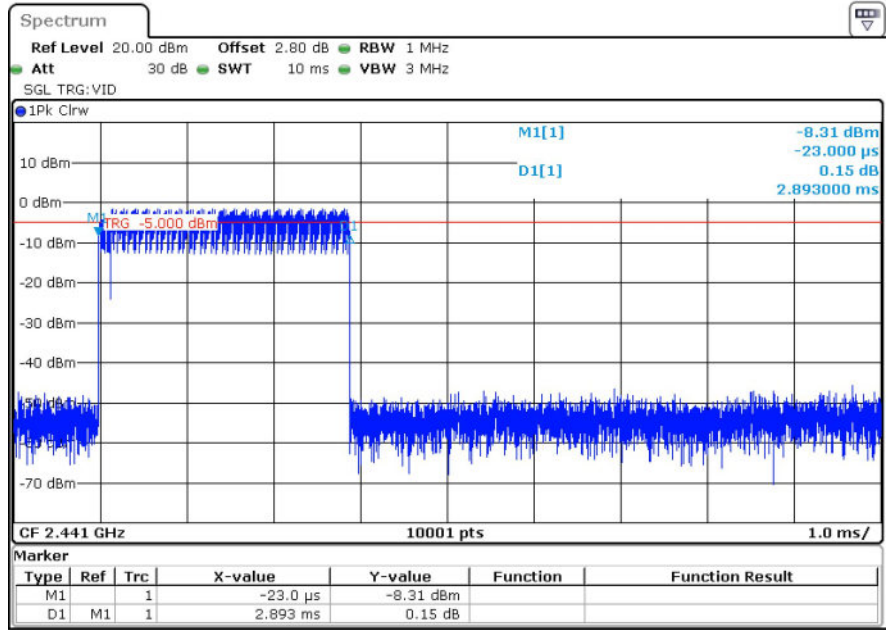
6.2 Test Graphs



$\pi/4$ DQPSK
_2DH5/MCH



8DPSK_3DH5/MCH



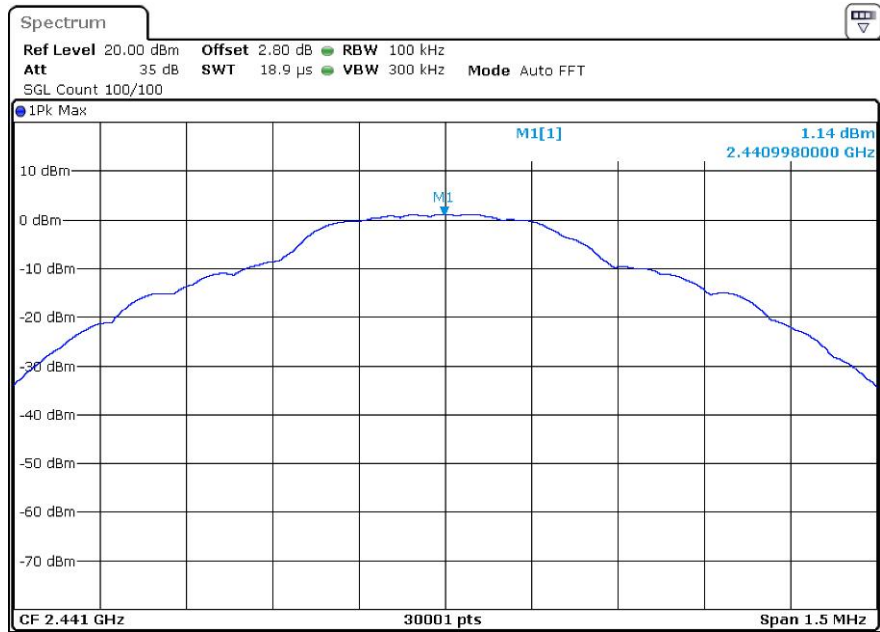
7 RF Conducted Spurious Emissions

7.1 Test Result

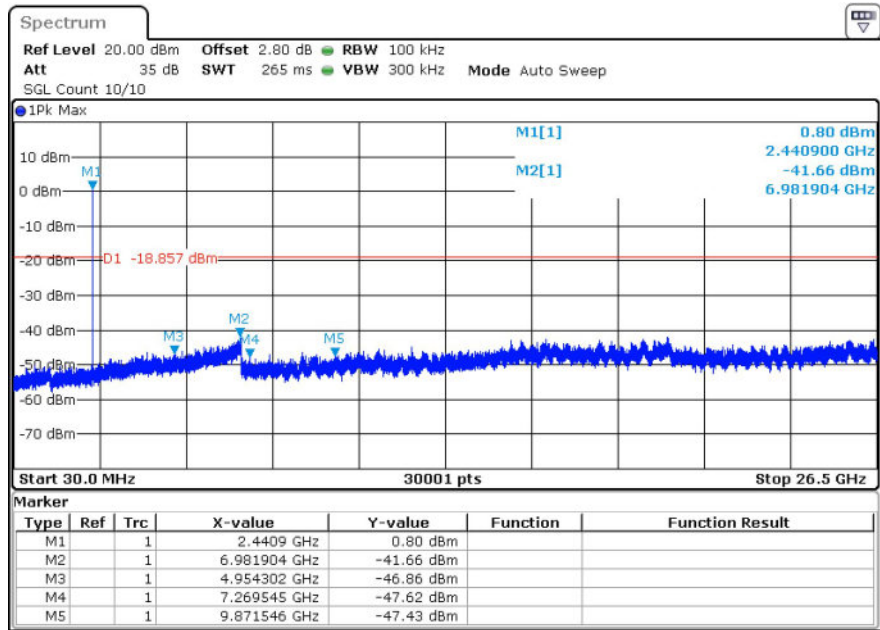
Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-42.88	-20	Pass
	MCH	-42.79	-20	Pass
	HCH	-42.47	-20	Pass
$\pi/4$ DQPSK	LCH	-39.3	-20	Pass
	MCH	-39.66	-20	Pass
	HCH	-37.76	-20	Pass
8DPSK	LCH	-41.06	-20	Pass
	MCH	-38.92	-20	Pass
	HCH	-39.62	-20	Pass

GFSK_MCH_Graphs

Pref

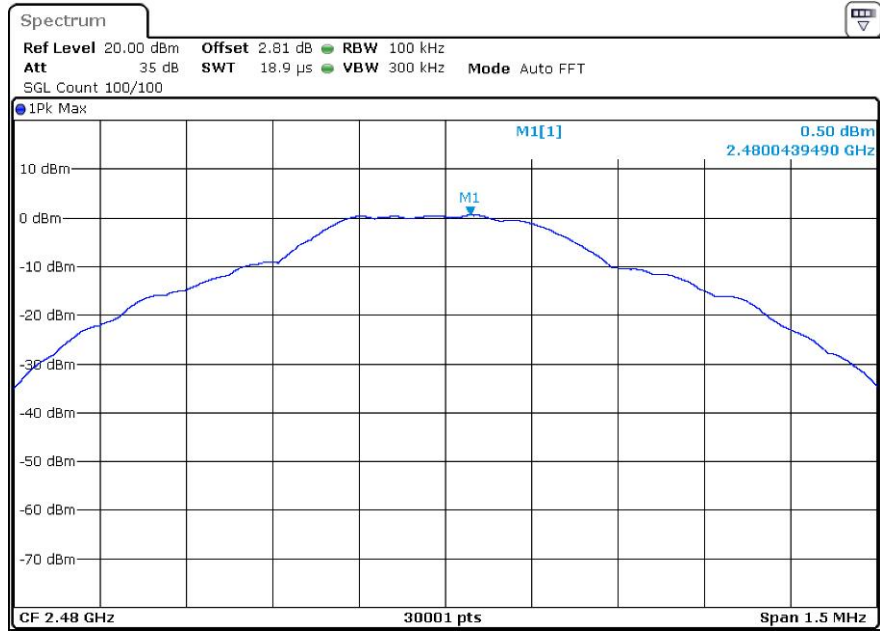


Puw

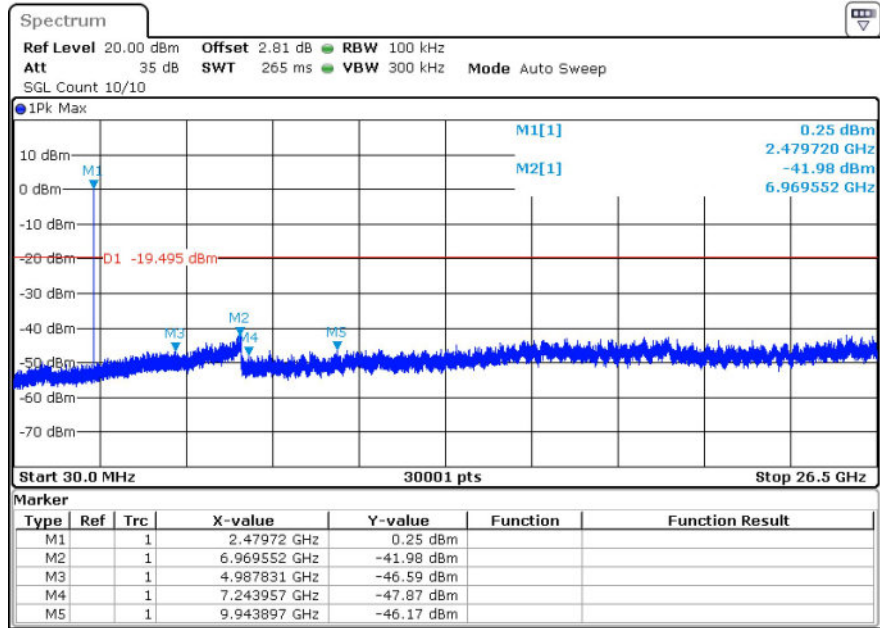


GFSK_HCH_Graphs

Pref

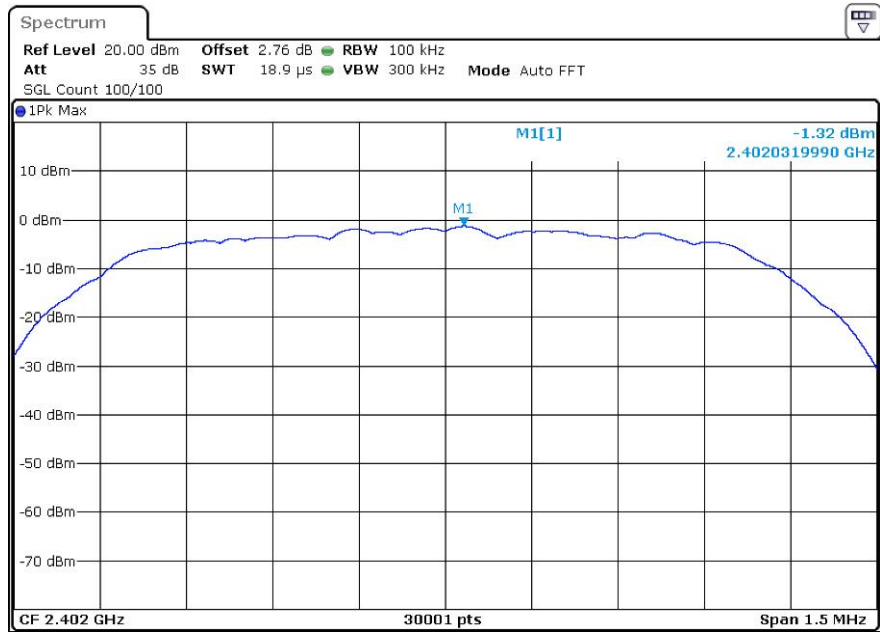


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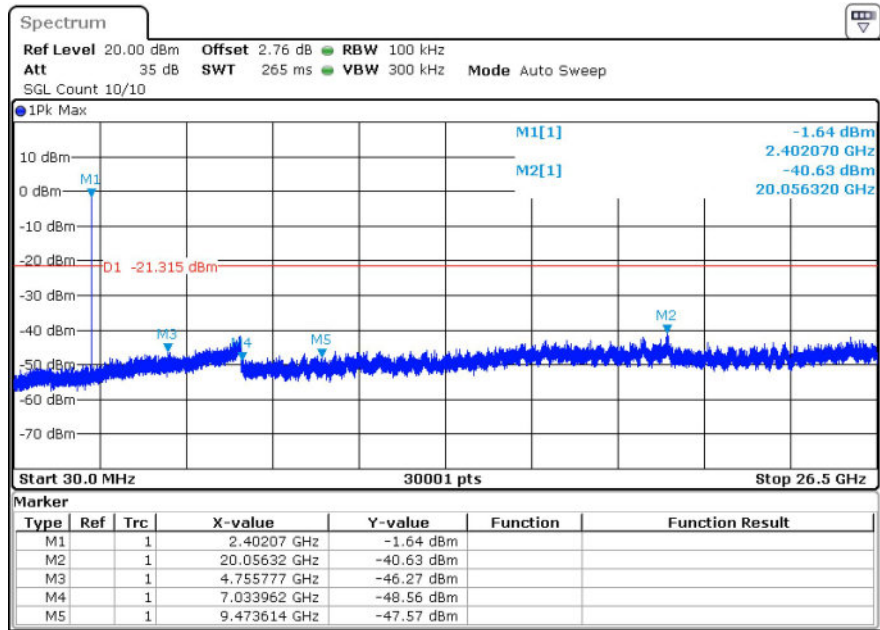


$\pi/4$ DQPSK_LCH_Graphs

Pref

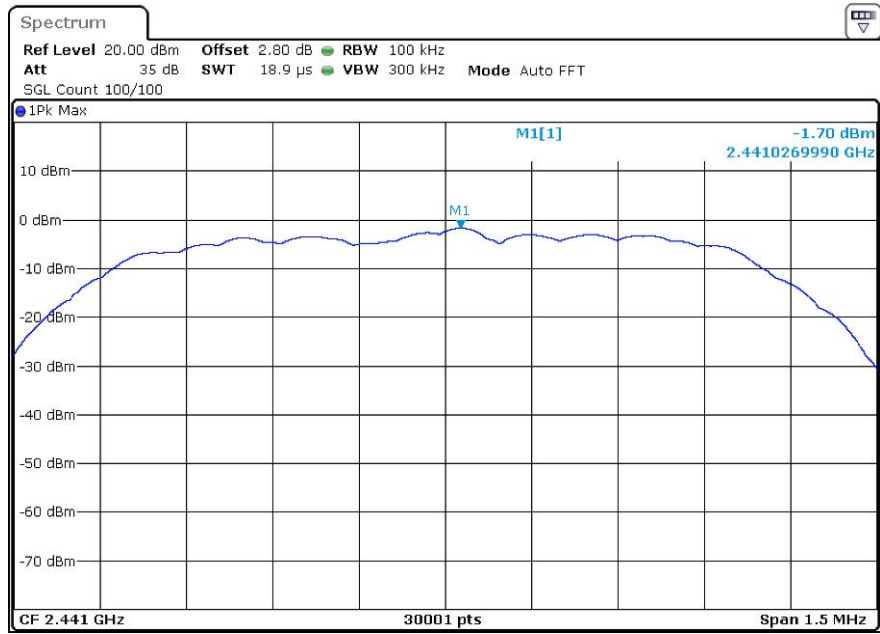


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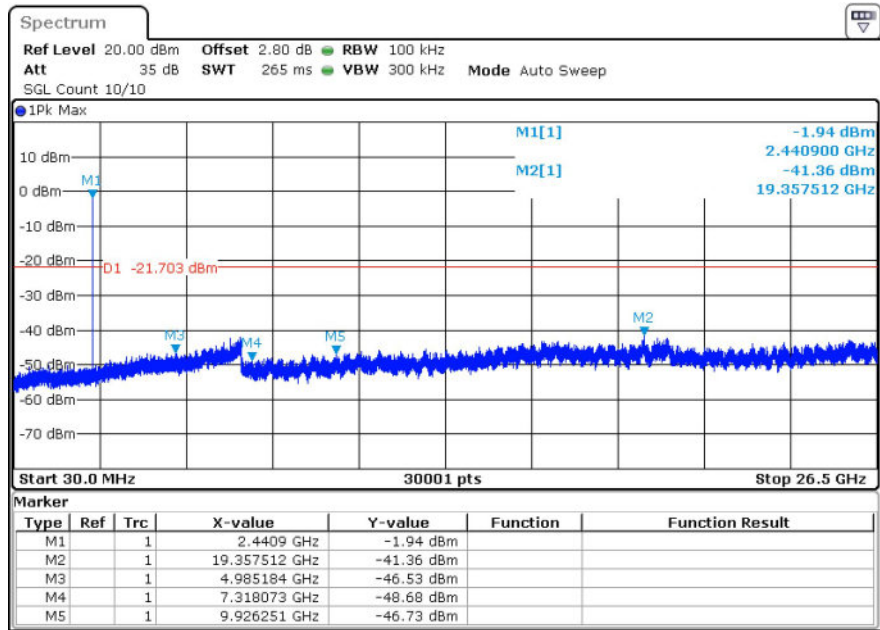


$\pi/4$ DQPSK_MCH_Graphs

Pref

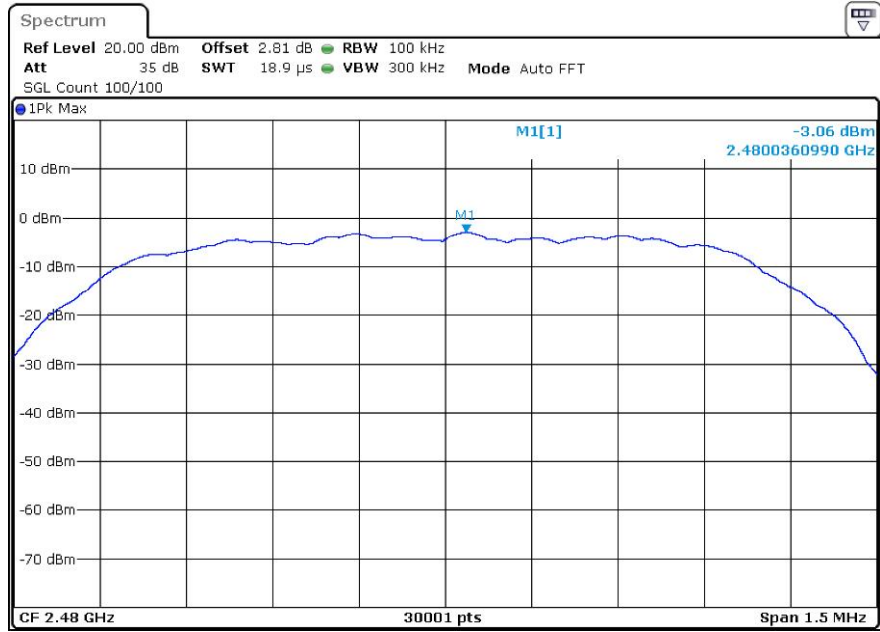


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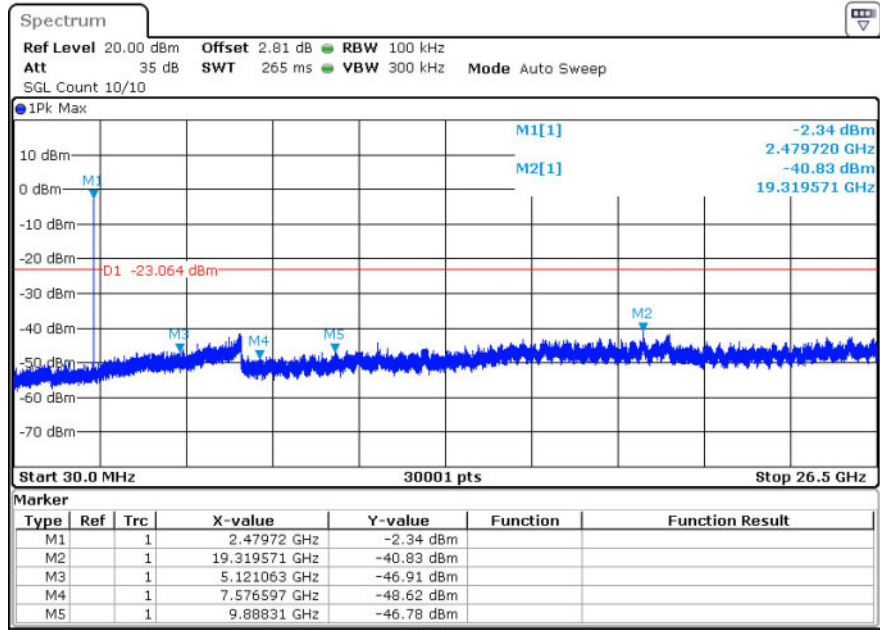


$\pi/4$ DQPSK_HCH_Graphs

Pref

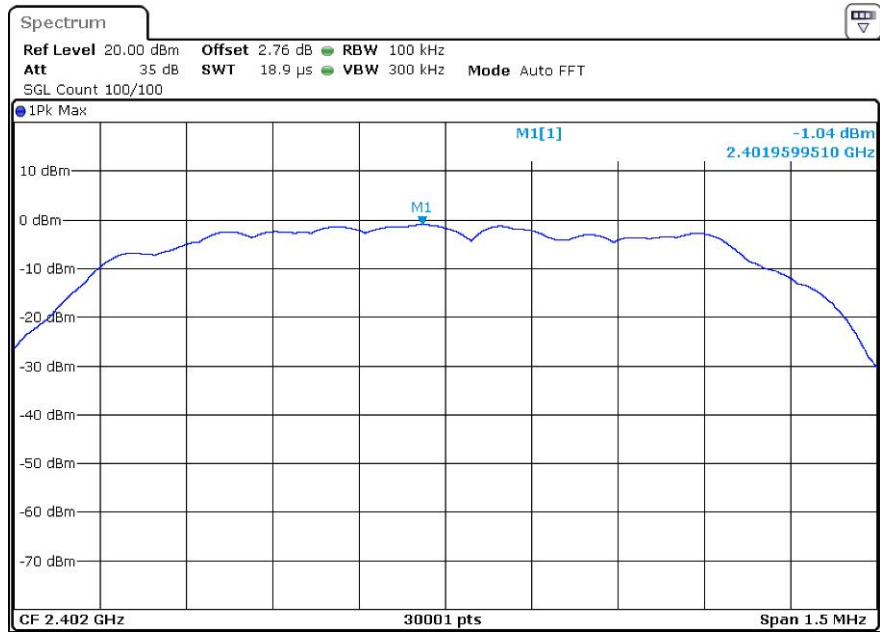


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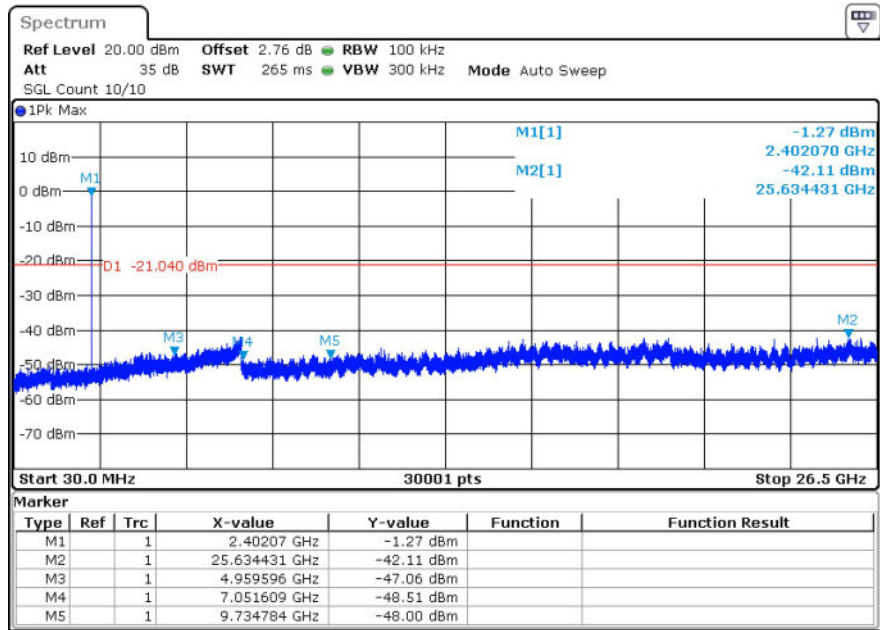


8DPSK_LCH_Graphs

Pref

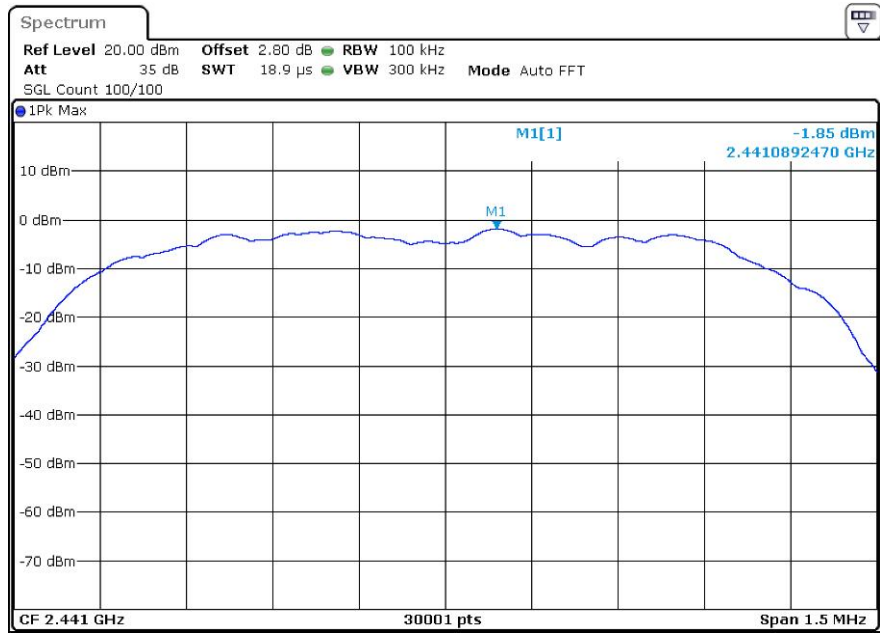


Puw



8DPSK_MCH_Graphs

Pref



Puw

