



Appendix A

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

Product Name: PS500 PA Party Speaker

Trade Mark: Oakcastle/Majority

Test Model: PS500, 1000002981

Environmental Conditions

Temperature:	25.4 °C
Relative Humidity:	53.5%
ATM Pressure:	101Kpa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung

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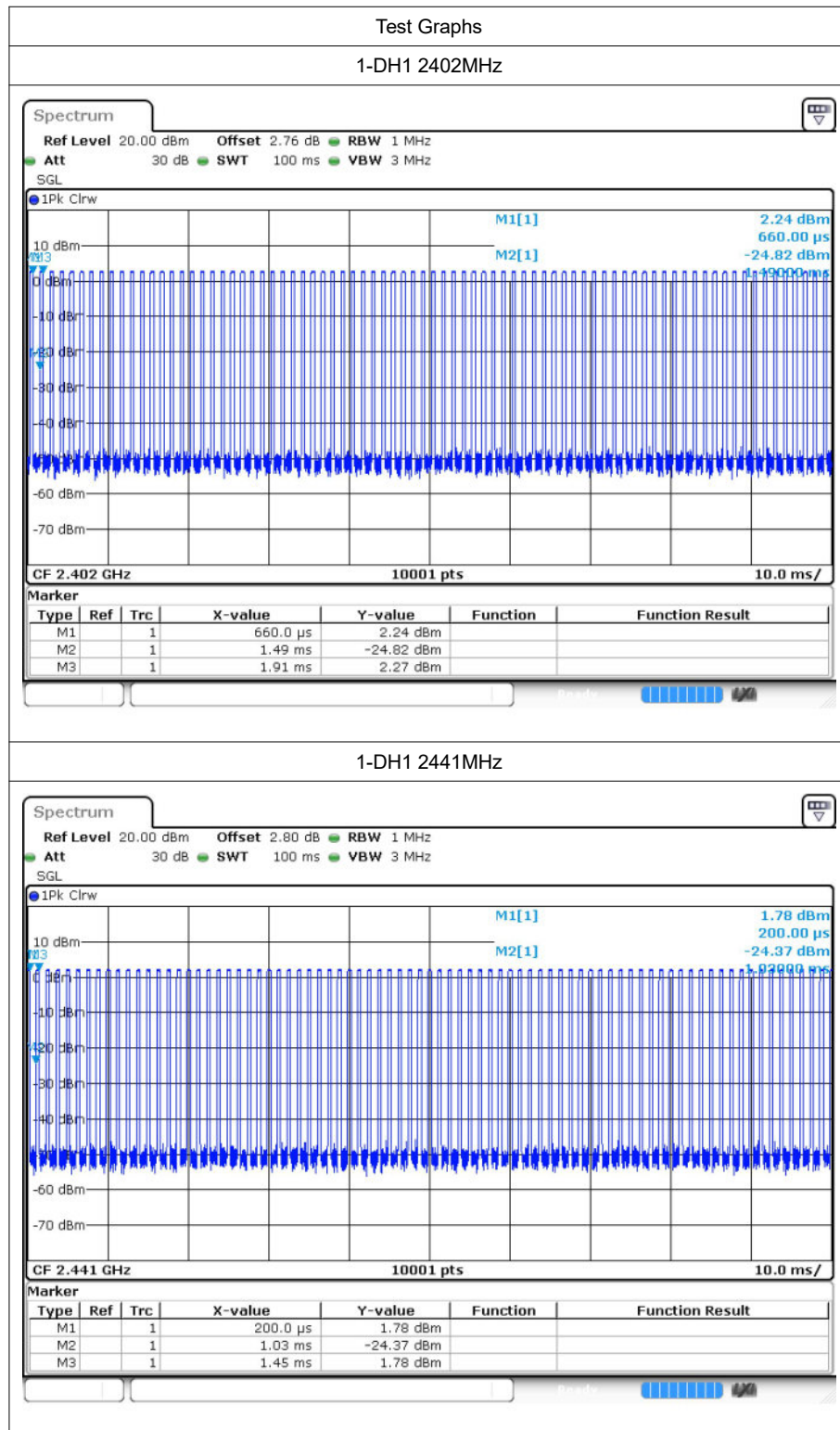
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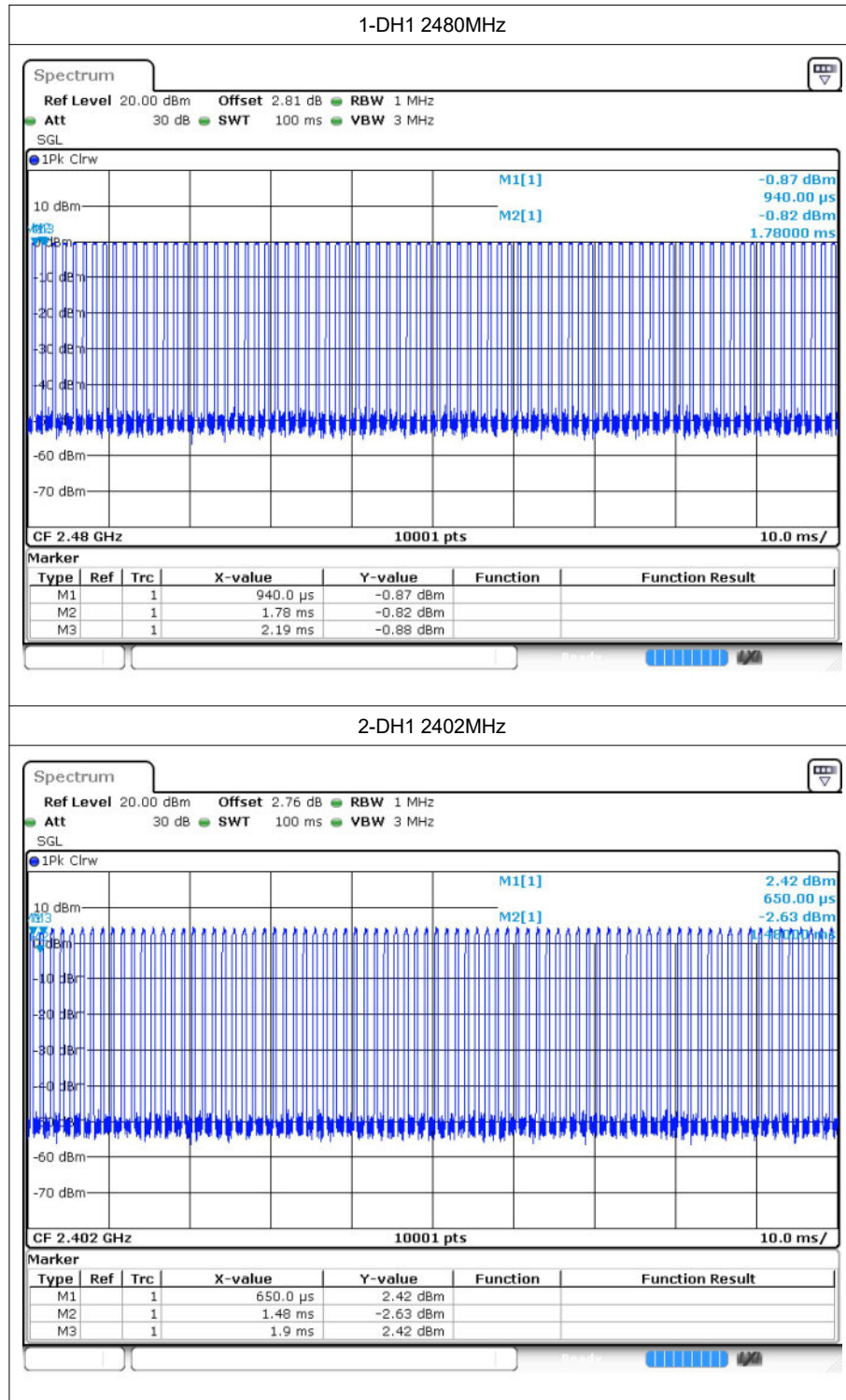
1 Duty Cycle

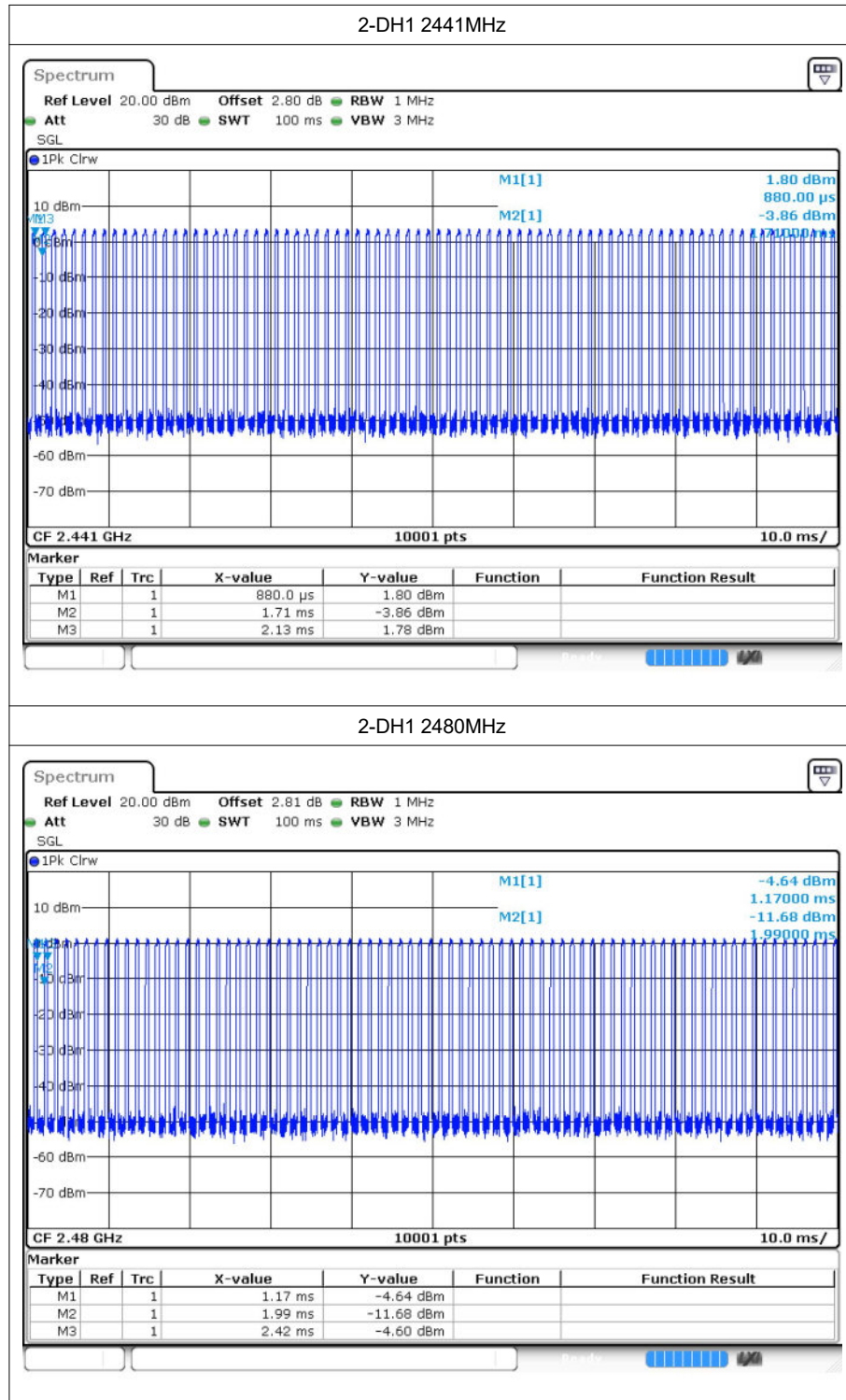
1.1 Test Result

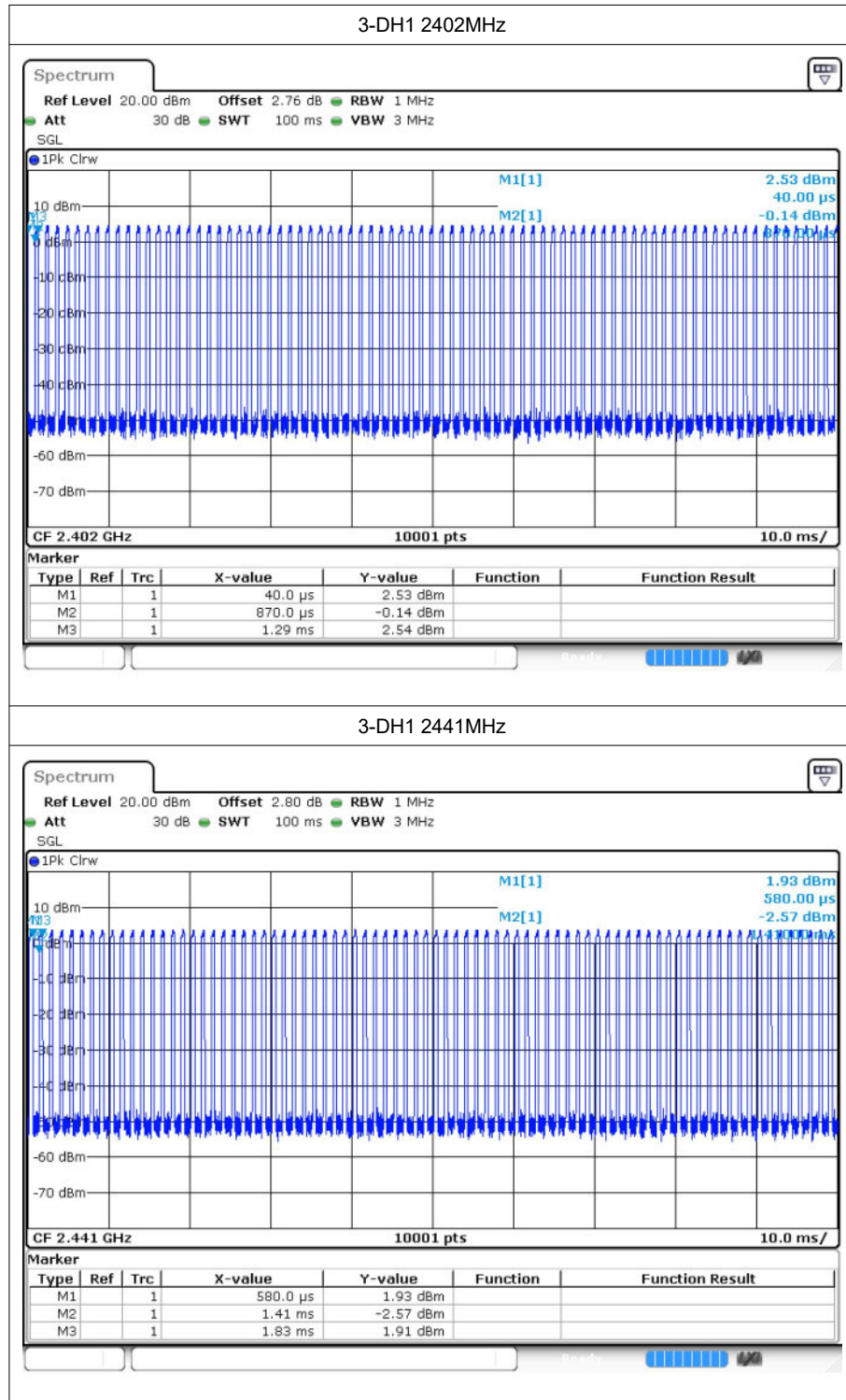
Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor	1/T (kHz)
1-DH1	2402	34.07	4.68	2.38
1-DH1	2441	33.91	4.7	2.38
1-DH1	2480	33.6	4.74	2.44
2-DH1	2402	34.4	4.63	2.38
2-DH1	2441	34.4	4.63	2.38
2-DH1	2480	35.2	4.54	2.33
3-DH1	2402	34.41	4.63	2.38
3-DH1	2441	34.58	4.61	2.38
3-DH1	2480	34.4	4.63	2.38

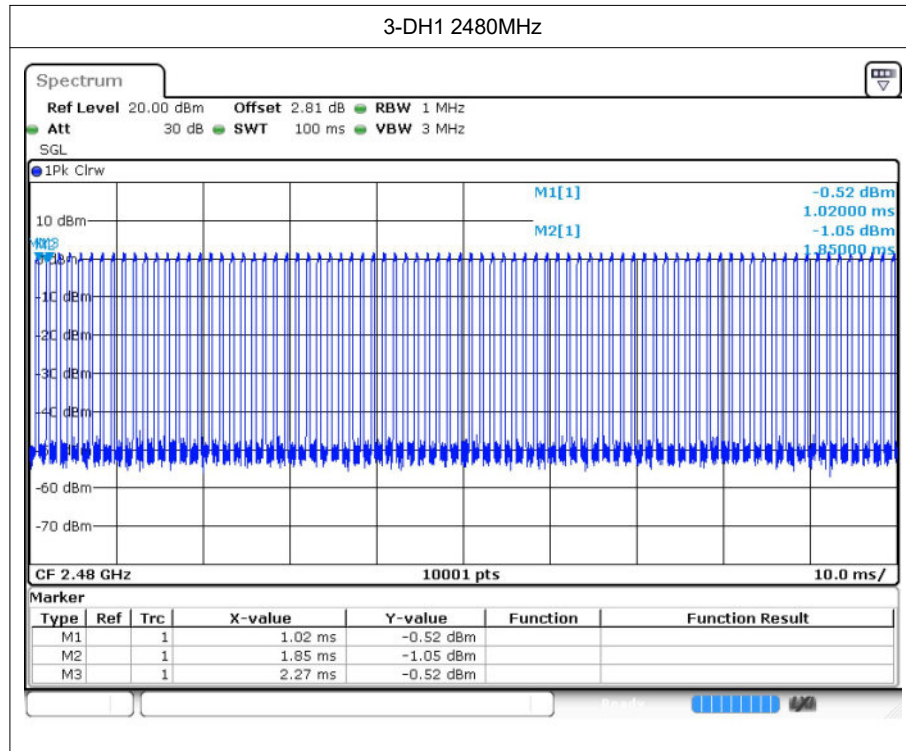
1.2 Test Graphs









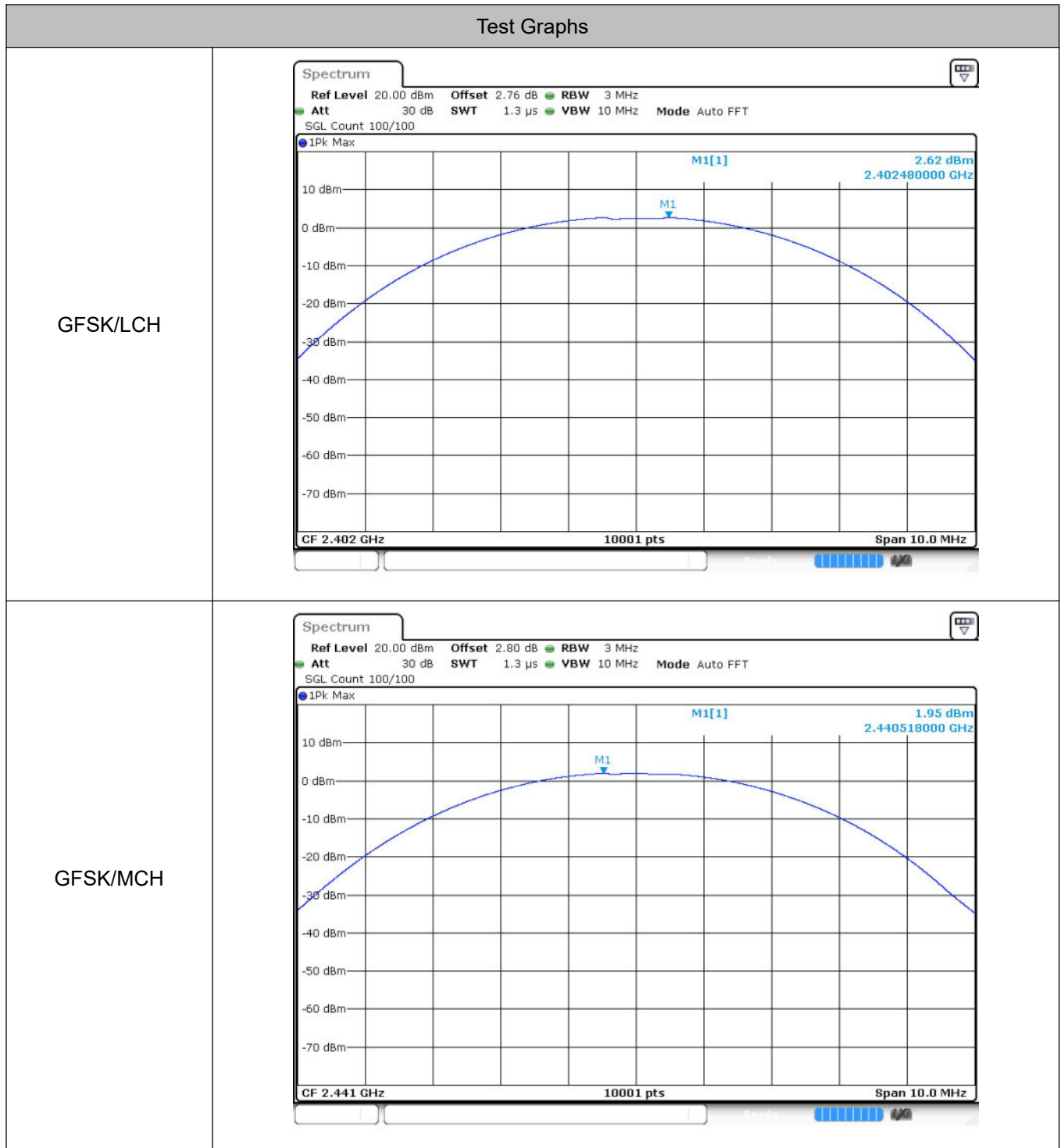


2 Maximum Conducted Peak Output Power

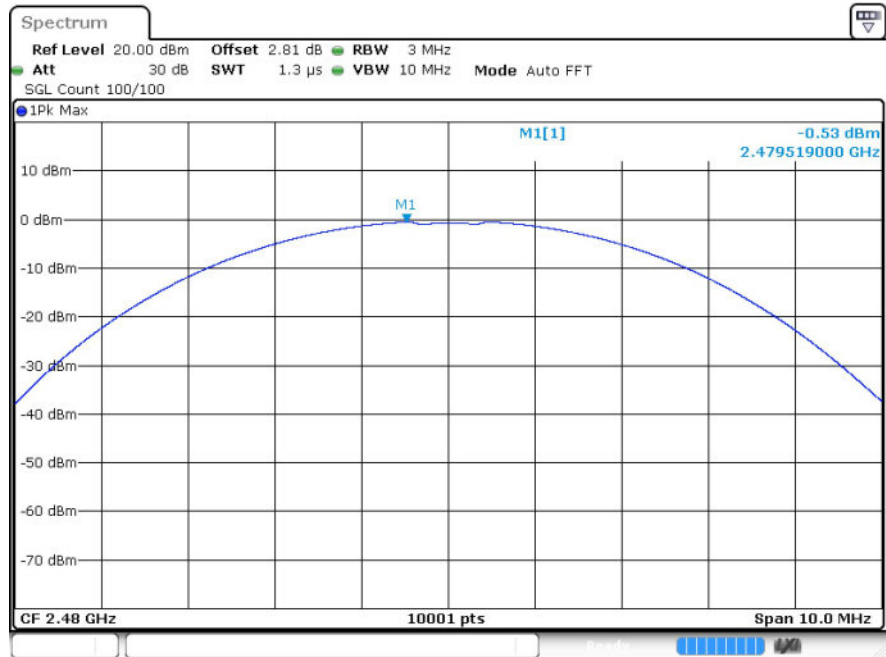
2.1 Test Result

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2.62	21	Pass
	MCH	1.95	21	Pass
	HCH	-0.53	21	Pass
$\pi/4$ DQPSK	LCH	4.05	21	Pass
	MCH	3.69	21	Pass
	HCH	1.2	21	Pass
8DPSK	LCH	3.58	21	Pass
	MCH	3.44	21	Pass
	HCH	1.06	21	Pass

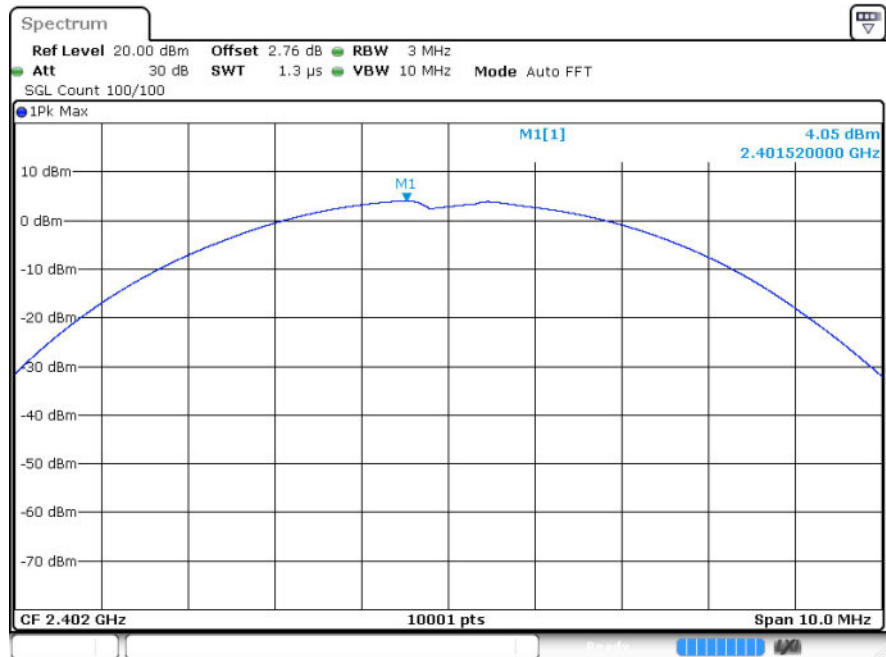
2.2 Test Graphs



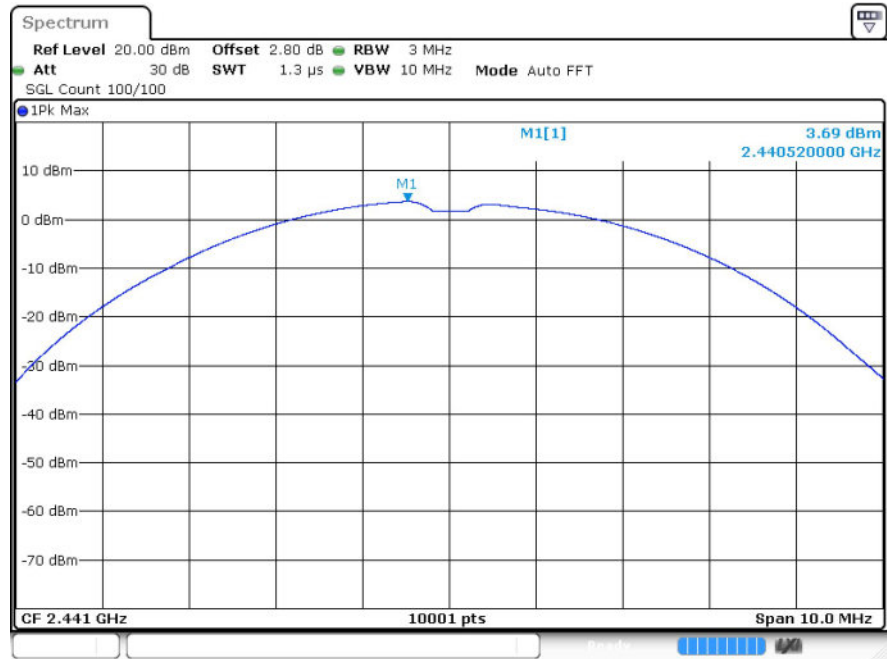
GFSK/HCH



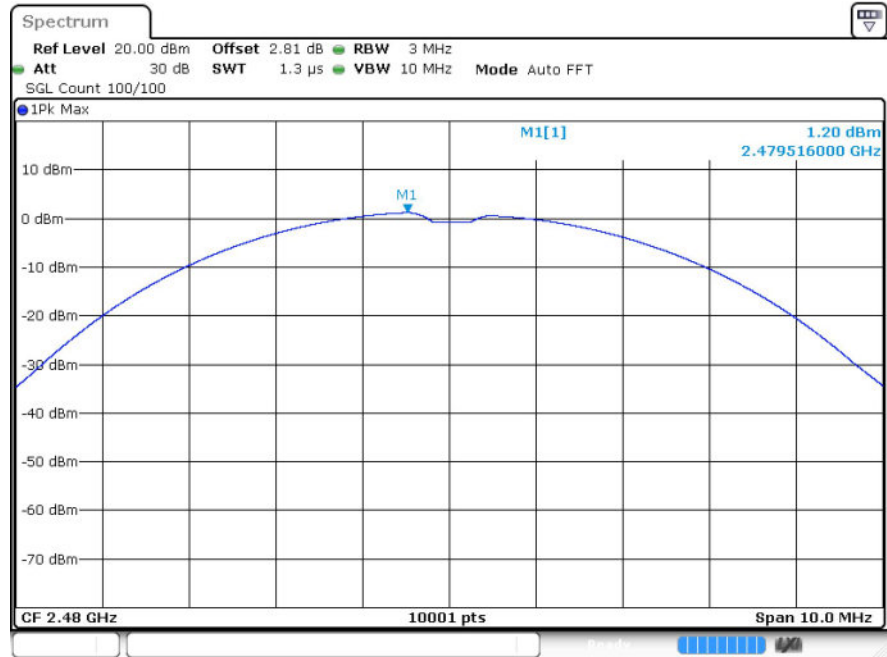
$\pi/4$ DQPSK/LCH



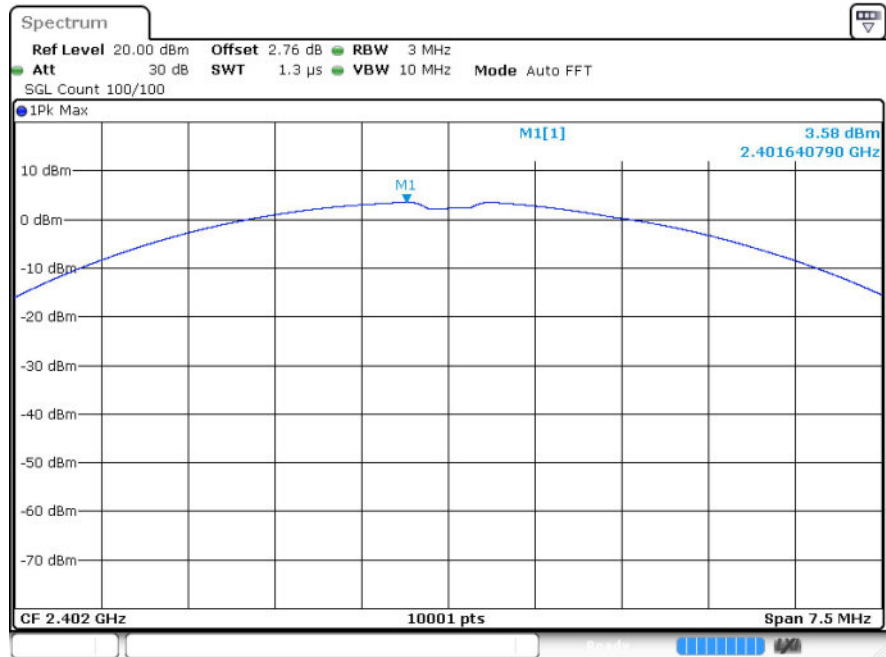
$\pi/4$ DQPSK/MCH



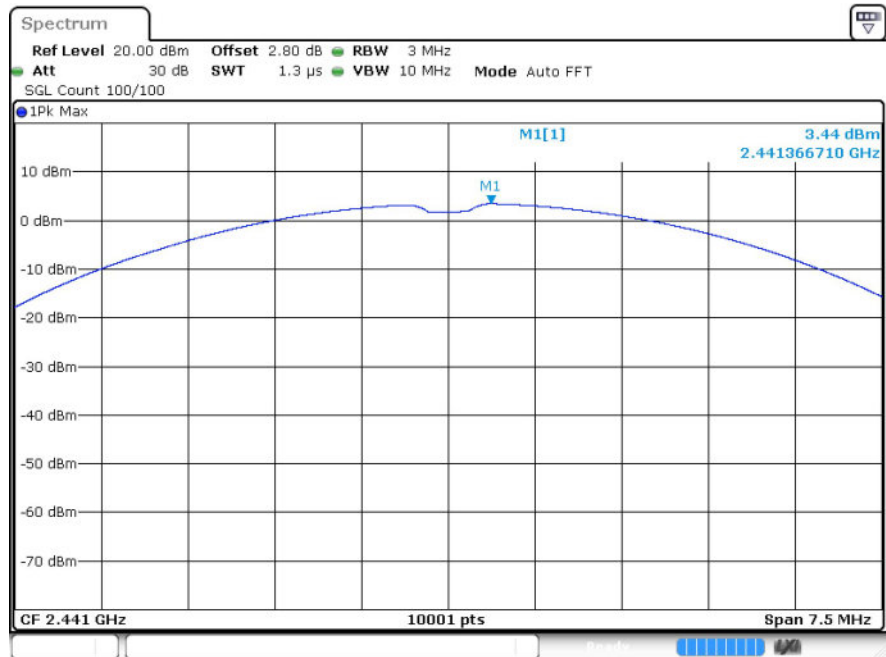
$\pi/4$ DQPSK/HCH



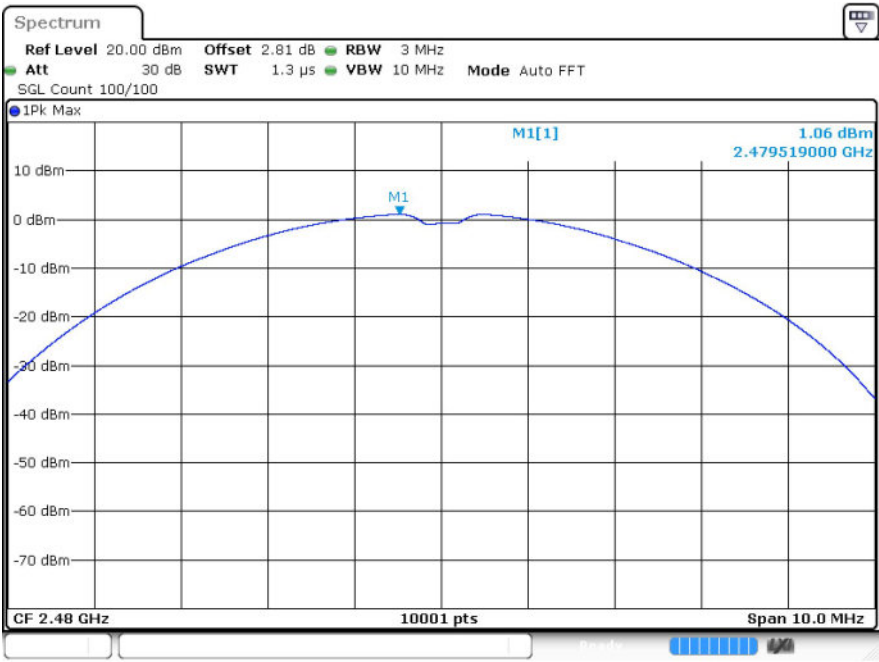
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

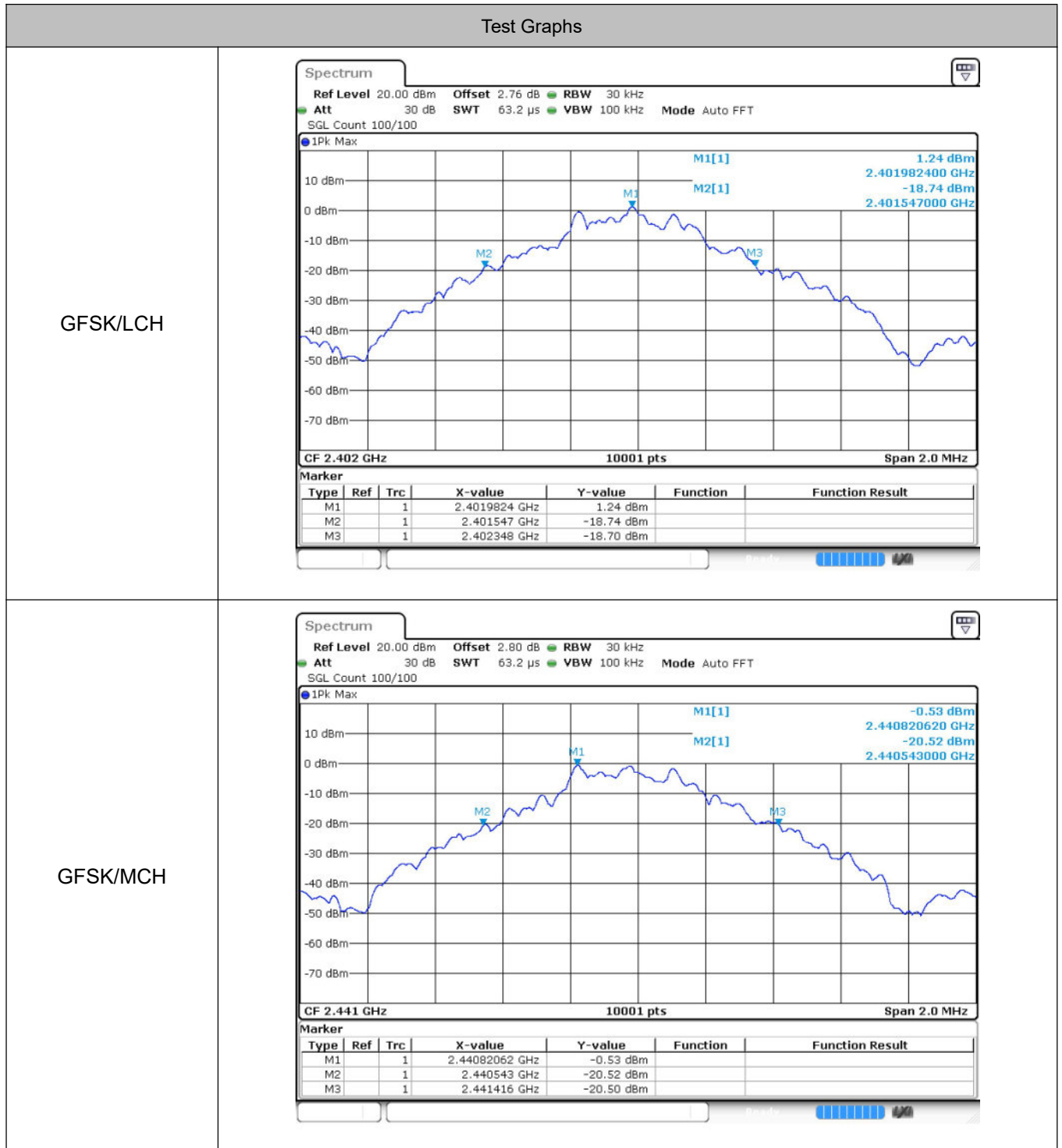


3 20dB Bandwidth

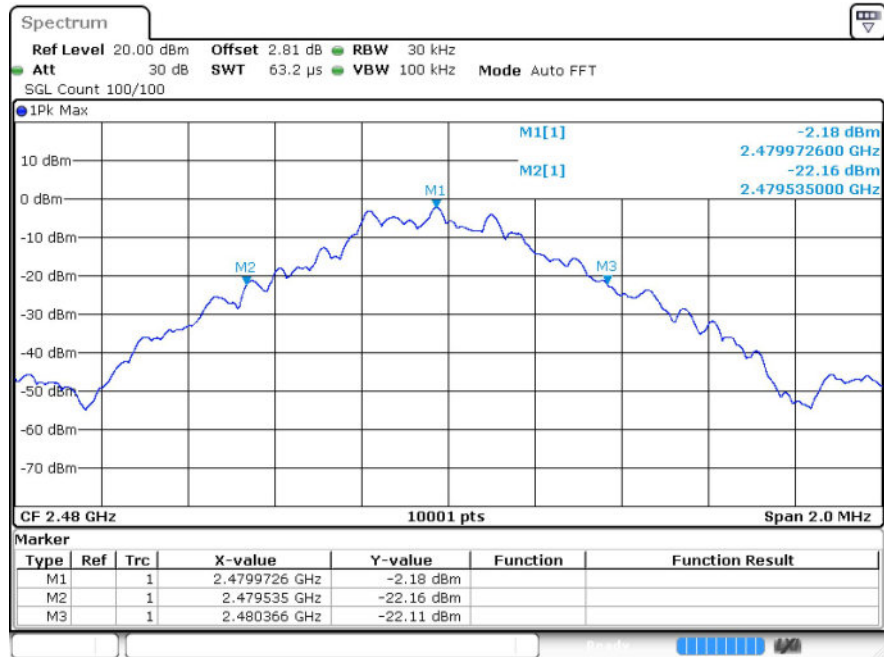
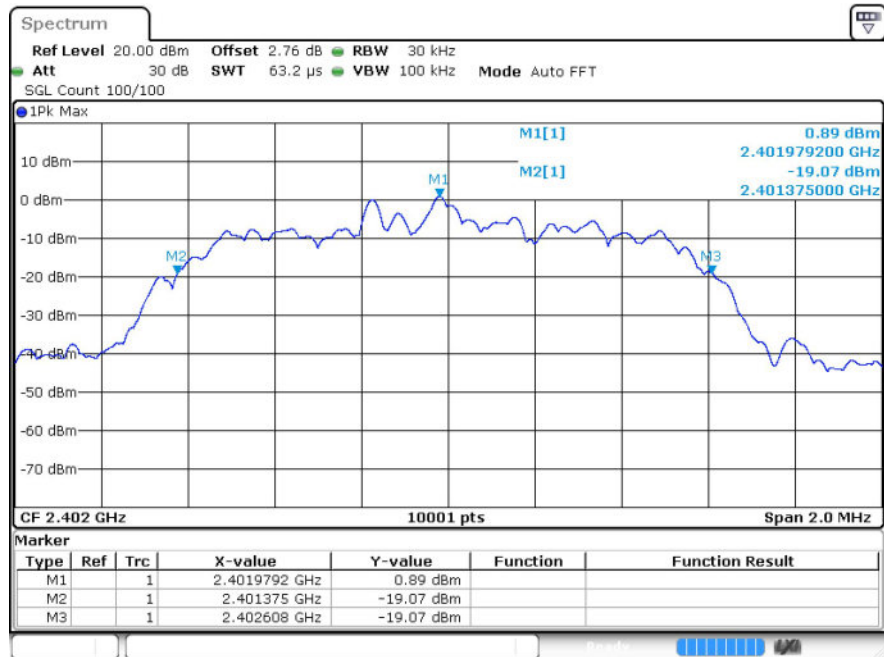
3.1 Test Result

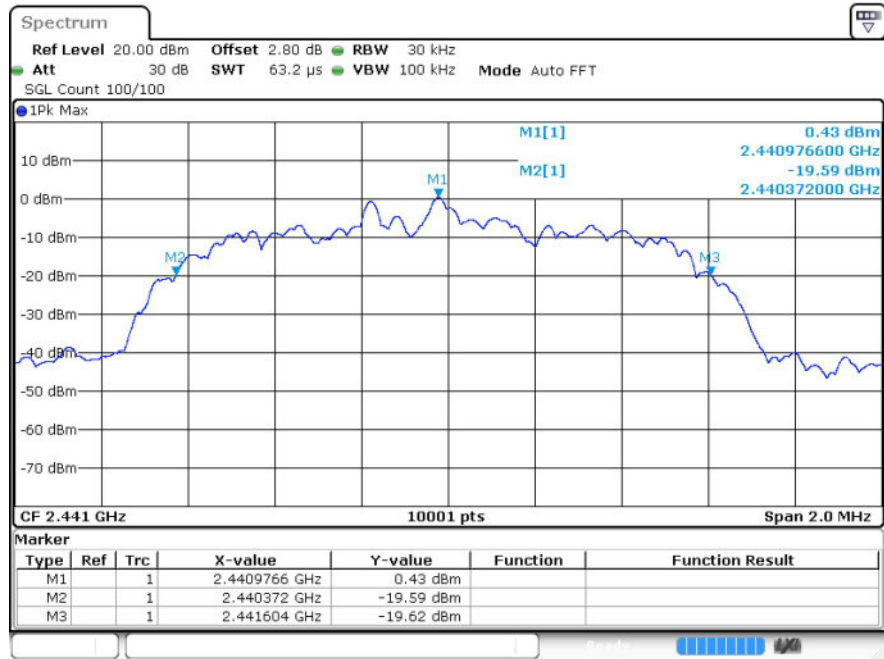
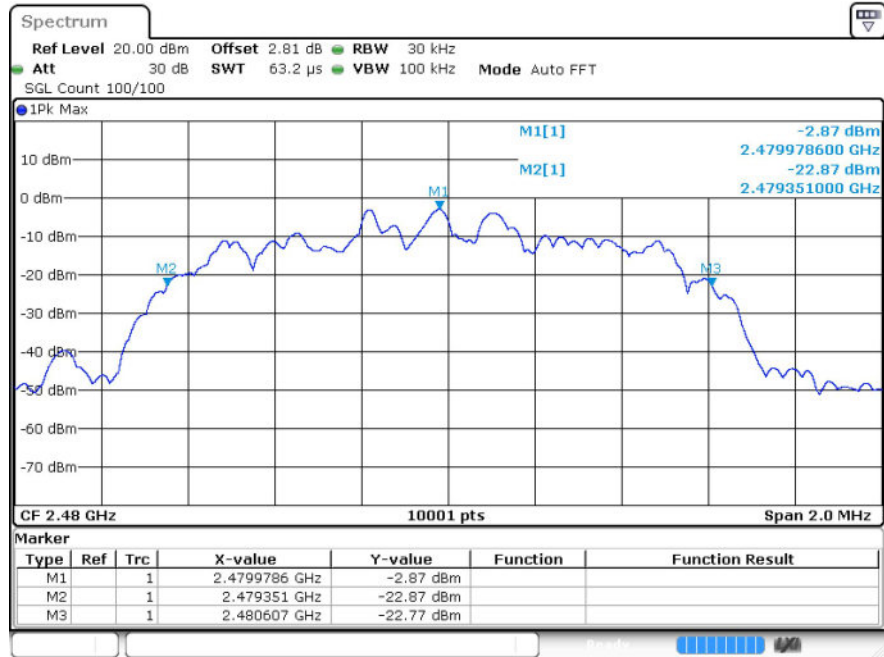
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.802	Not Specified	Pass
	MCH	0.873	Not Specified	Pass
	HCH	0.831	Not Specified	Pass
$\pi/4$ DQPSK	LCH	1.234	Not Specified	Pass
	MCH	1.231	Not Specified	Pass
	HCH	1.256	Not Specified	Pass
8DPSK	LCH	1.236	Not Specified	Pass
	MCH	1.24	Not Specified	Pass
	HCH	1.204	Not Specified	Pass

3.2 Test Graphs

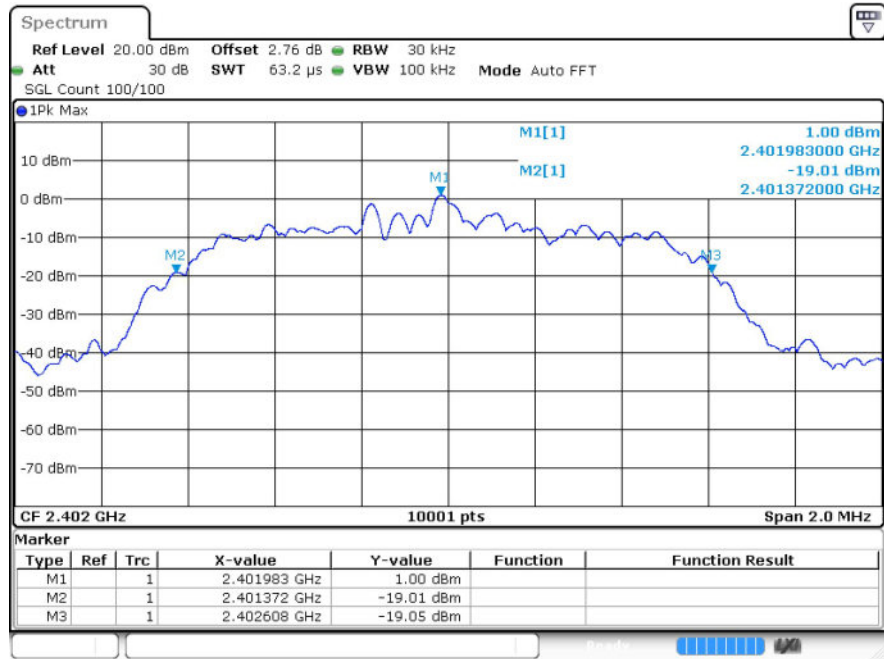


GFSK/HCH

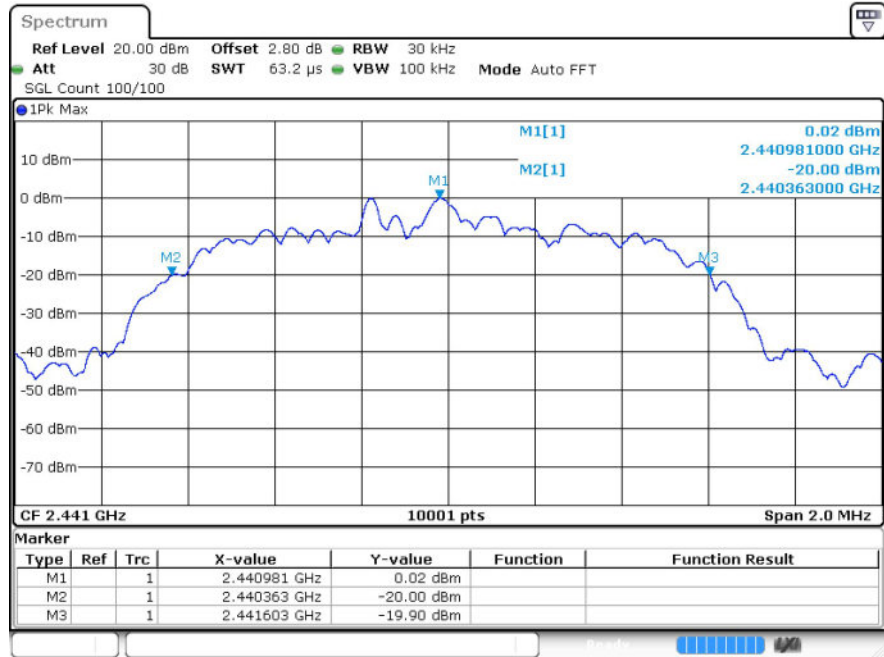

 $\pi/4$ DQPSK/LCH


$\pi/4$ DQPSK/MCH

 $\pi/4$ DQPSK/HCH


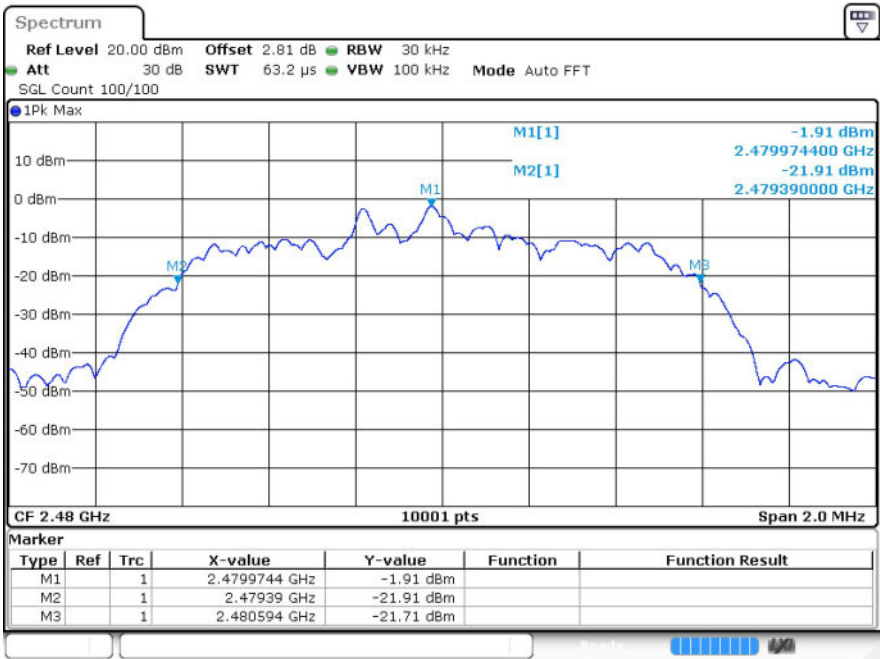
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH



4 Carrier Frequency Separation

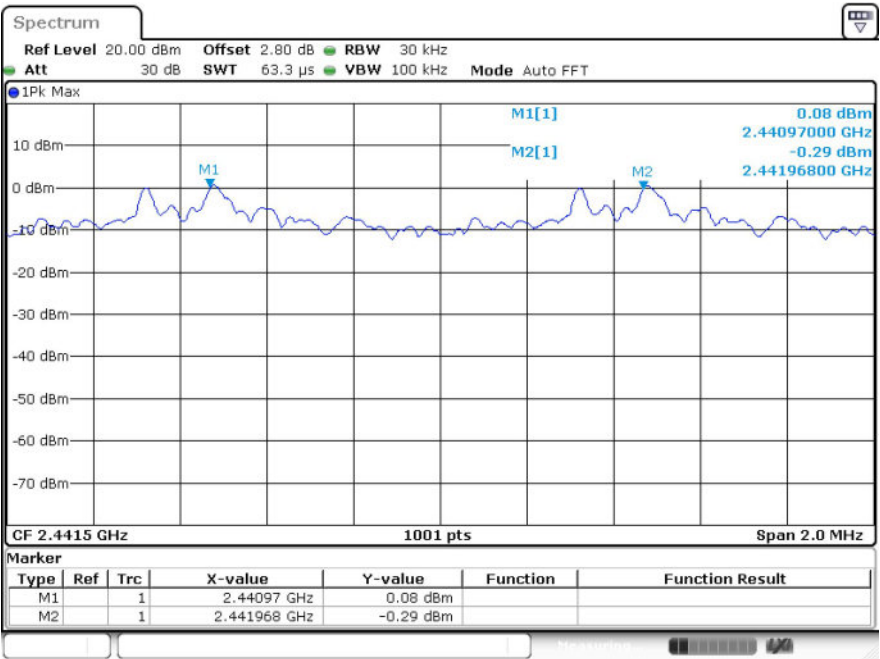
4.1 Test Result

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	1.001	0.582	Pass
$\pi/4$ DQPSK	MCH	1.001	0.821	Pass
8DPSK	MCH	0.998	0.827	Pass

4.2 Test Graphs



8DPSK/MCH

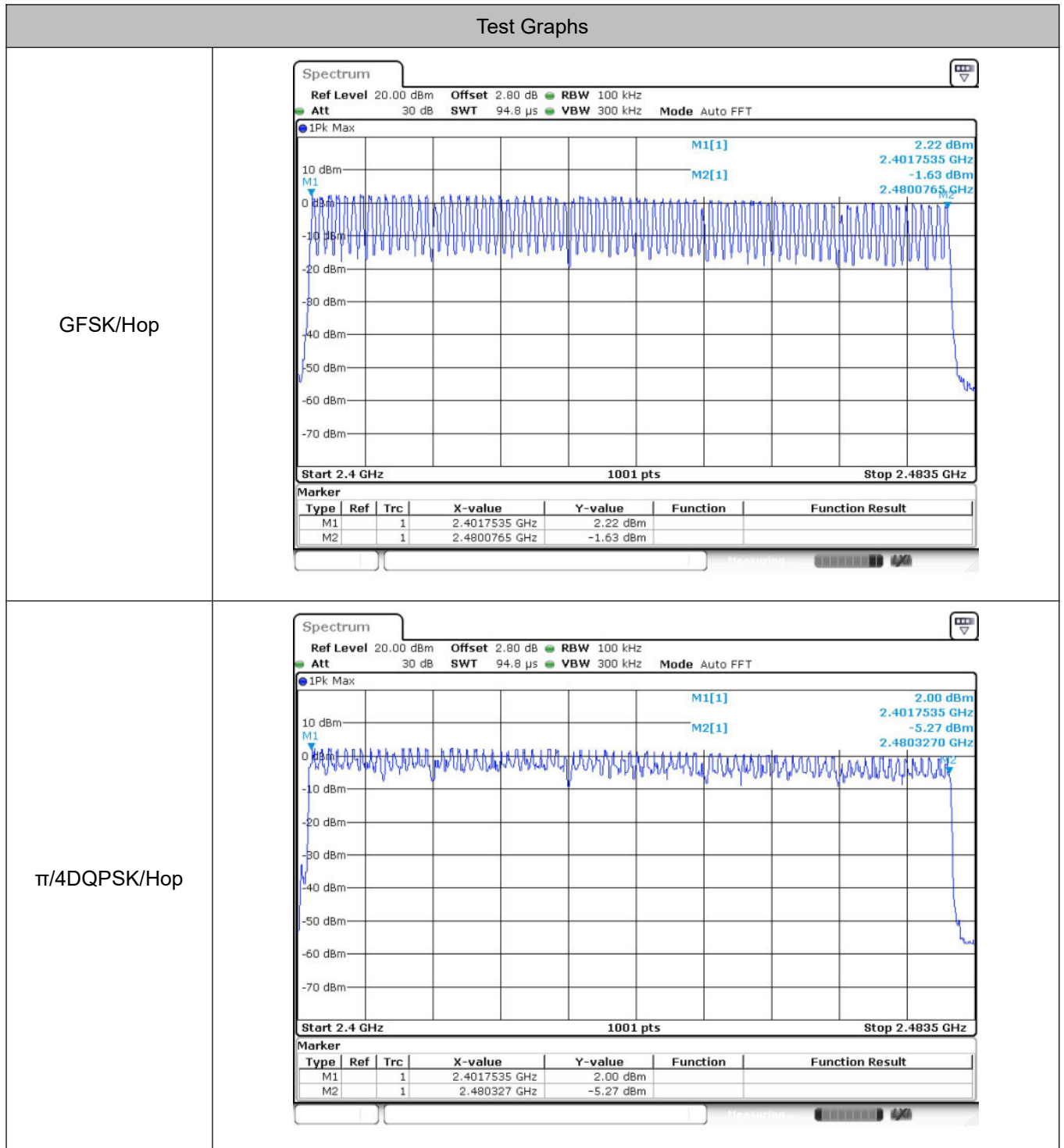


5 Hopping Channel Number

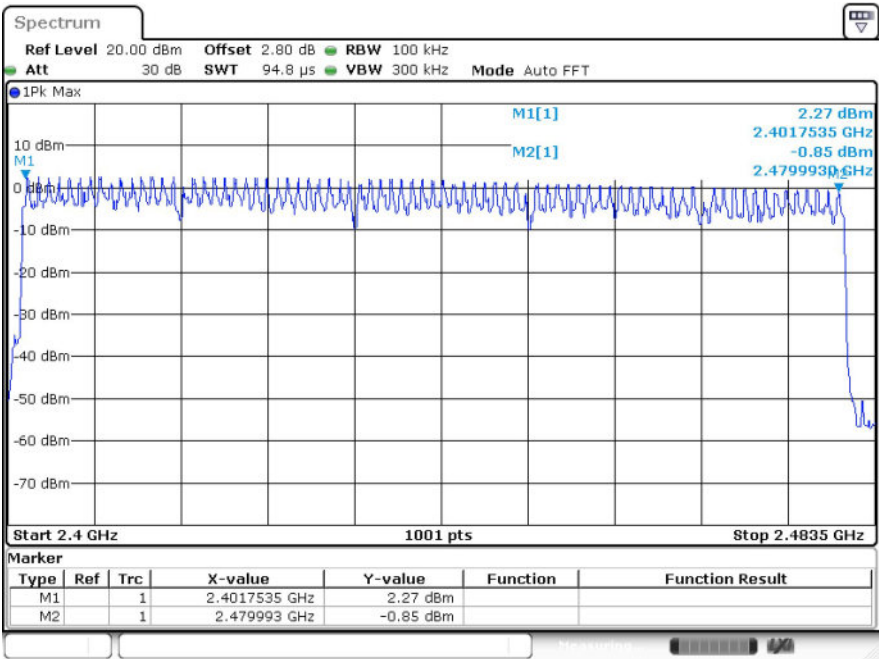
5.1 Test Result

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

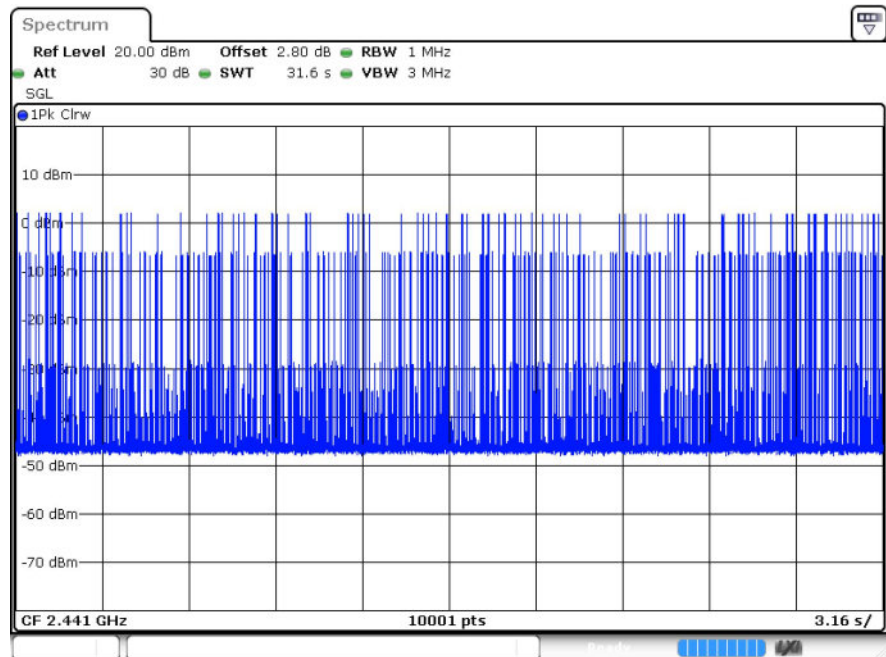
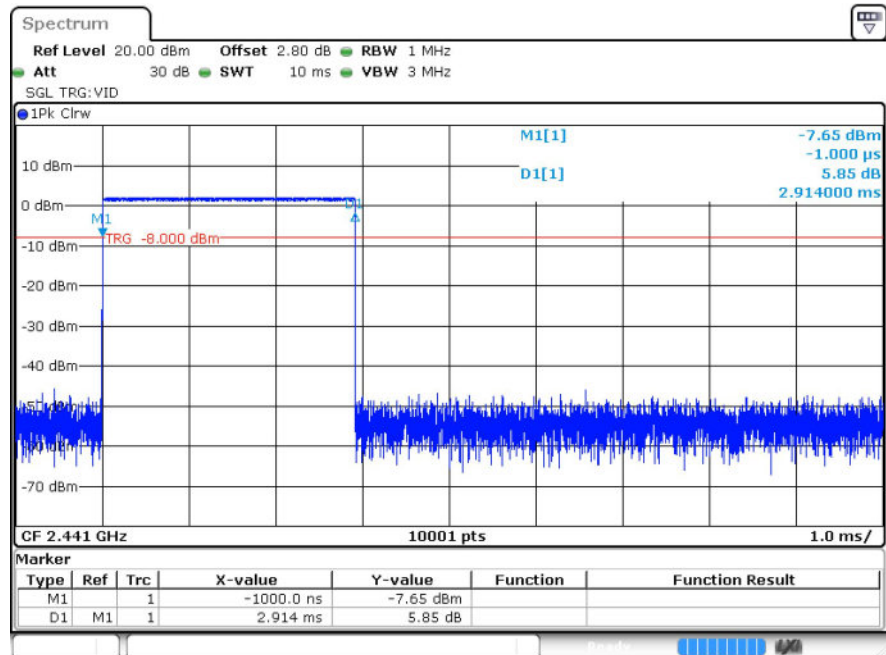
6.1 Test Result

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Limit [s]	Verdict
GFSK	DH5	MCH	2.914	94	273.916	0.4	Pass
$\pi/4$ DQPSK	2DH5	MCH	2.915	102	297.33	0.4	Pass
8DPSK	3DH5	MCH	2.917	98	285.866	0.4	Pass

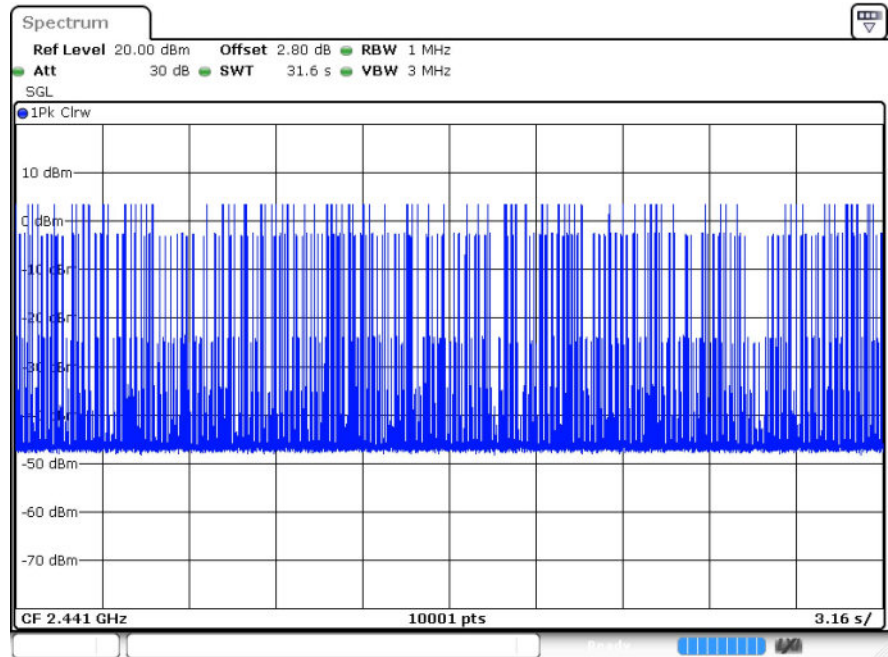
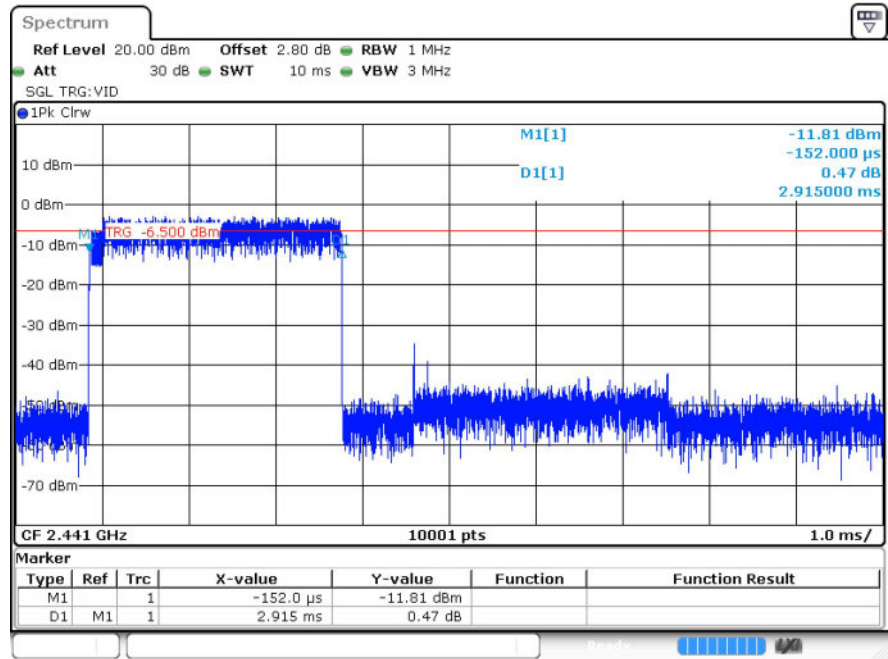
6.2 Test Graphs

Test Graphs

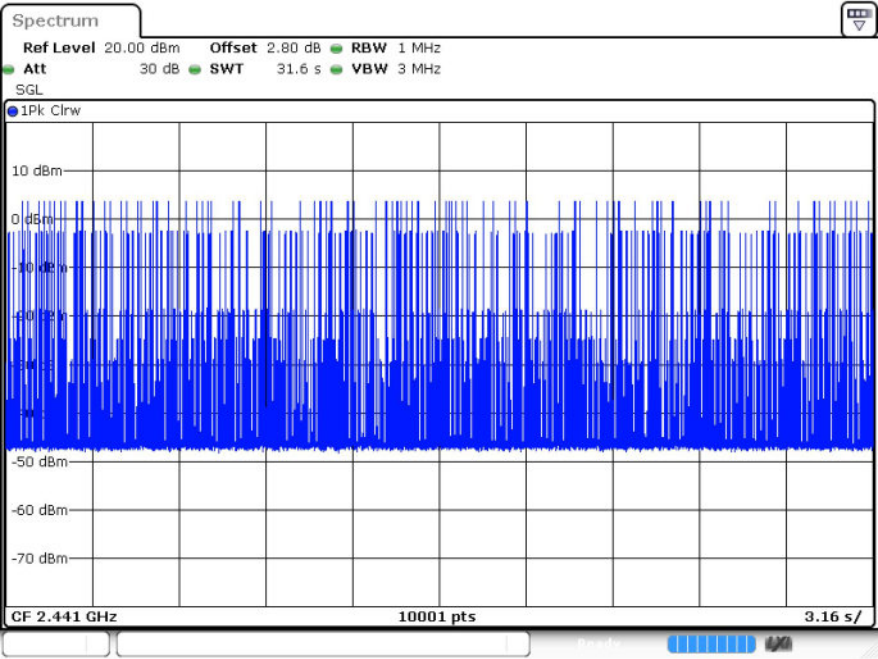
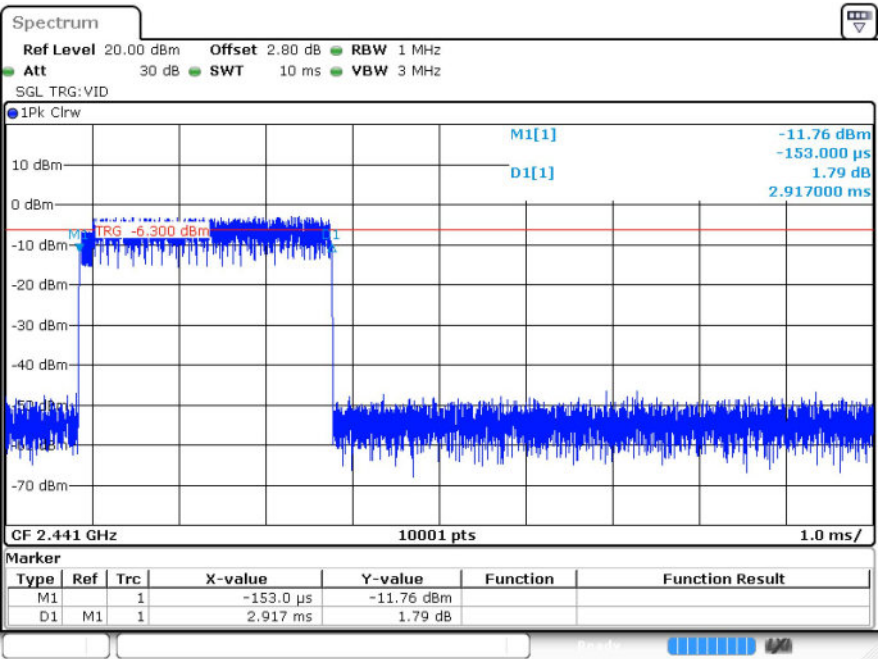
GFSK_DH5/MCH



$\pi/4$ DQPSK
_2DH5/MCH



8DPSK_3DH5/MCH

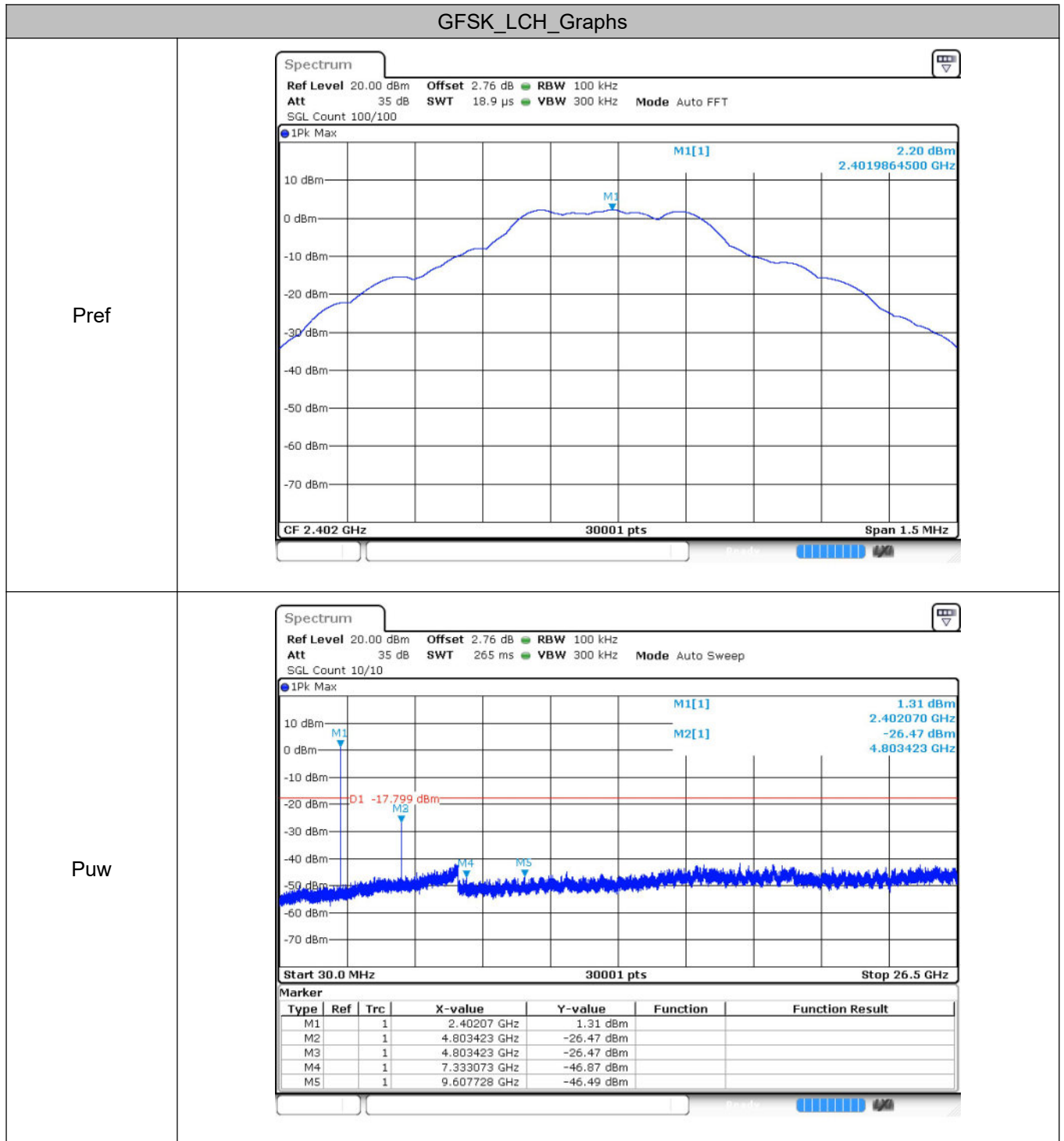


7 RF Conducted Spurious Emissions

7.1 Test Result

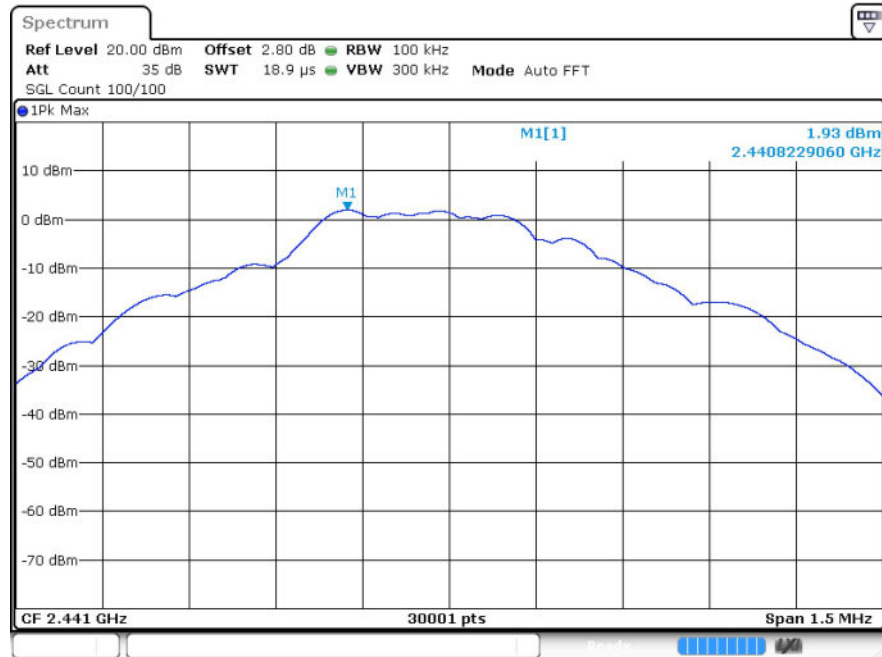
Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-28.66	-20	Pass
	MCH	-43.37	-20	Pass
	HCH	-28.9	-20	Pass
π /4DQPSK	LCH	-24.95	-20	Pass
	MCH	-28.37	-20	Pass
	HCH	-33.14	-20	Pass
8DPSK	LCH	-30.65	-20	Pass
	MCH	-30.35	-20	Pass
	HCH	-32.58	-20	Pass

7.2 Test Graphs

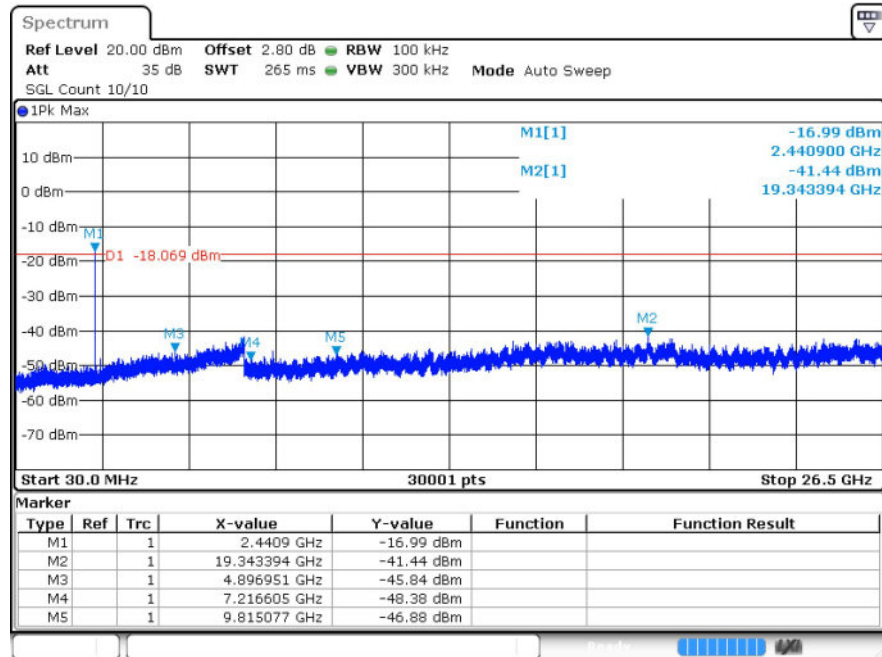


GFSK_MCH_Graphs

Pref

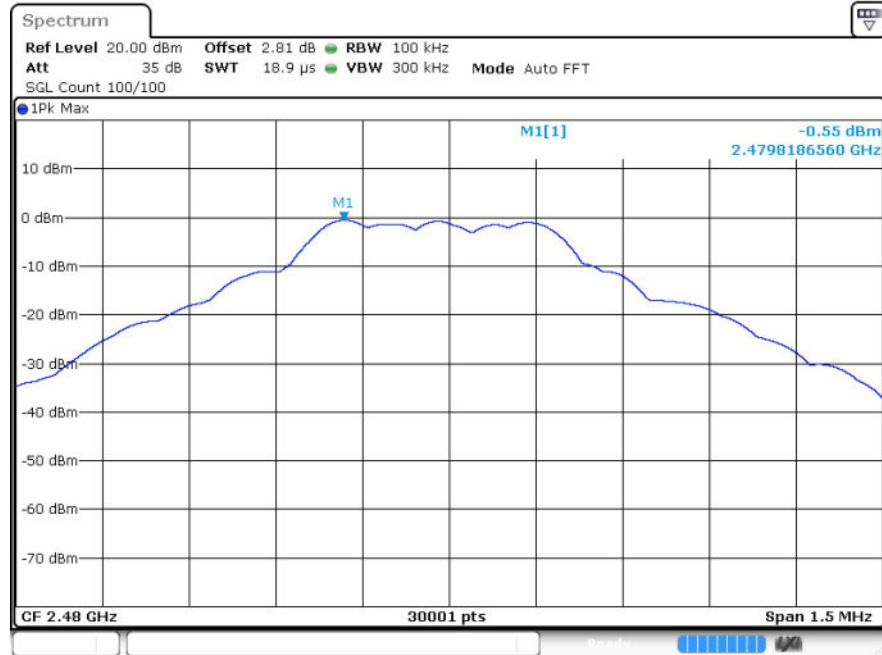


Puw



GFSK_HCH_Graphs

Pref



Puw

