



Appendix A

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

Product Name: retro cassette speaker

Trade Mark: ANTPO

Test Model: A10

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	52.4%
ATM Pressure:	101Kpa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung



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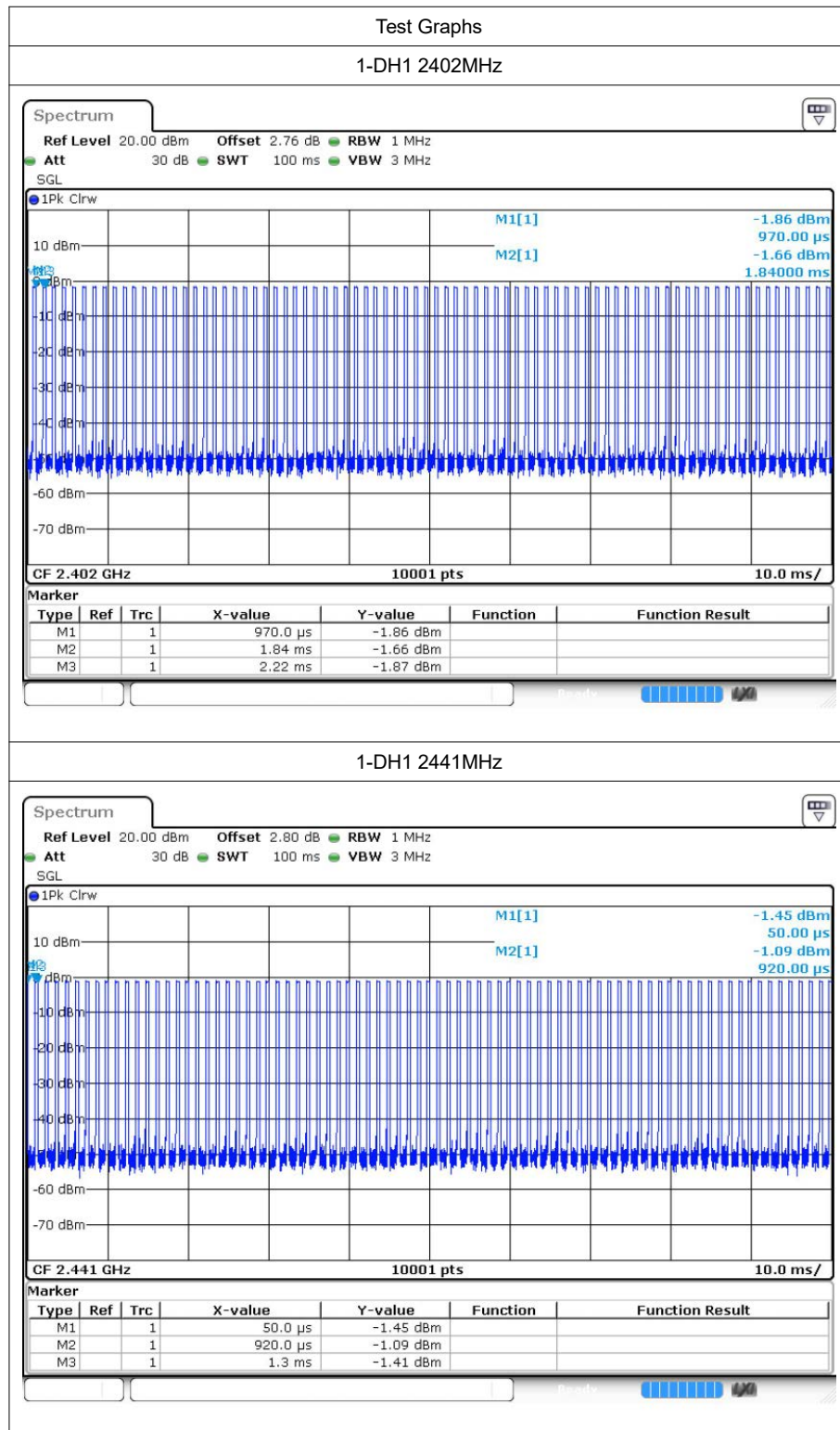
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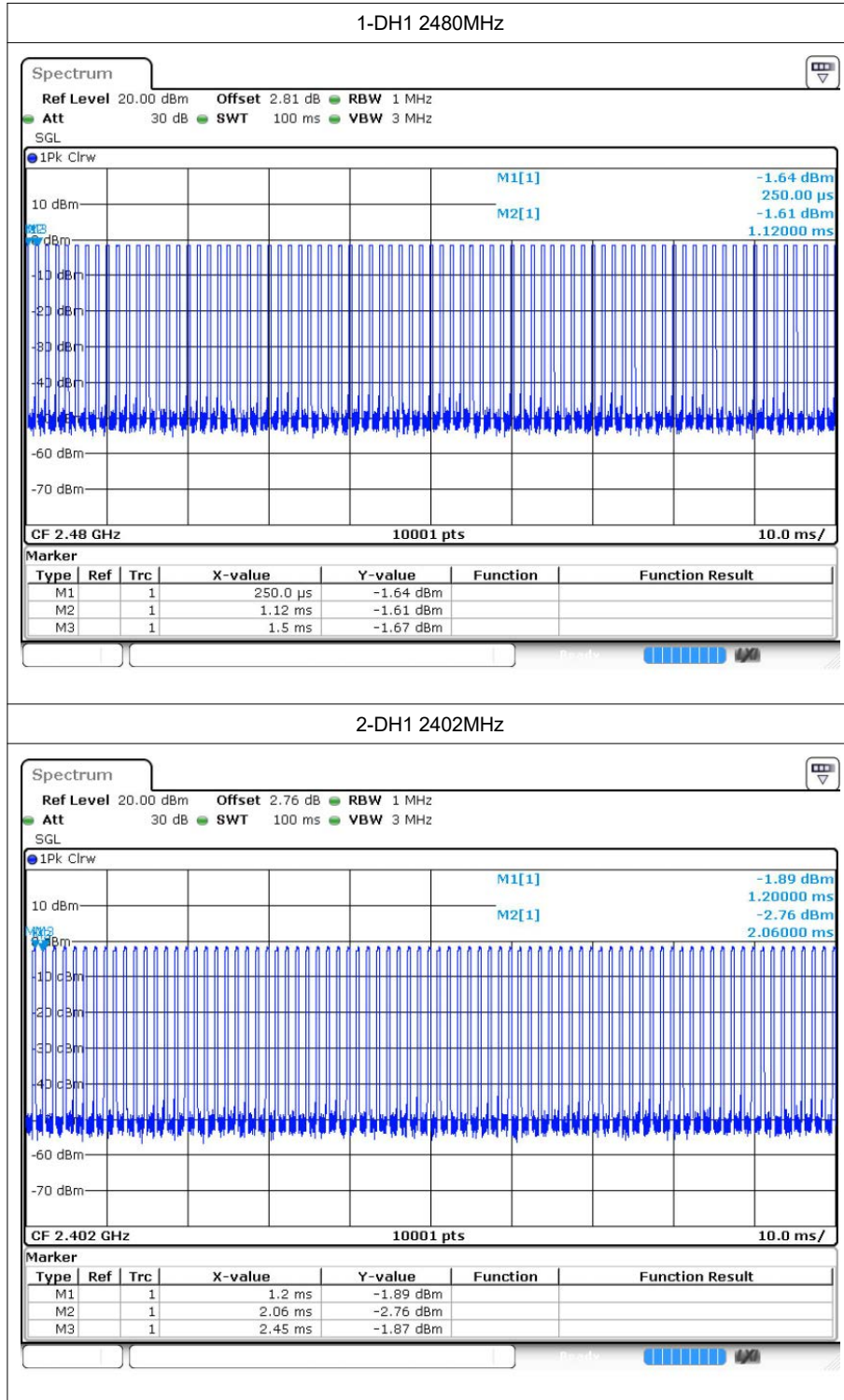
1 Duty Cycle

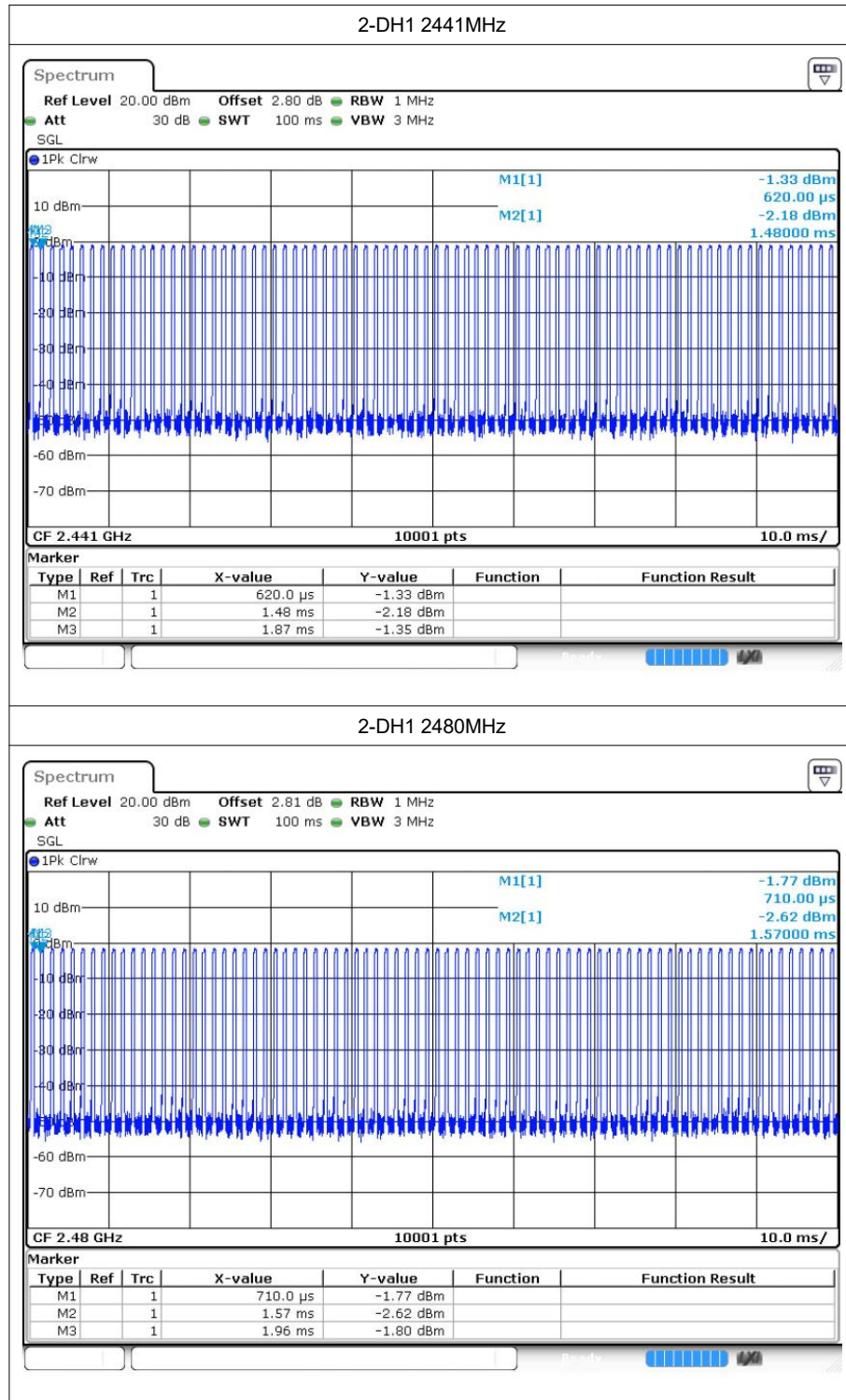
1.1 Test Result

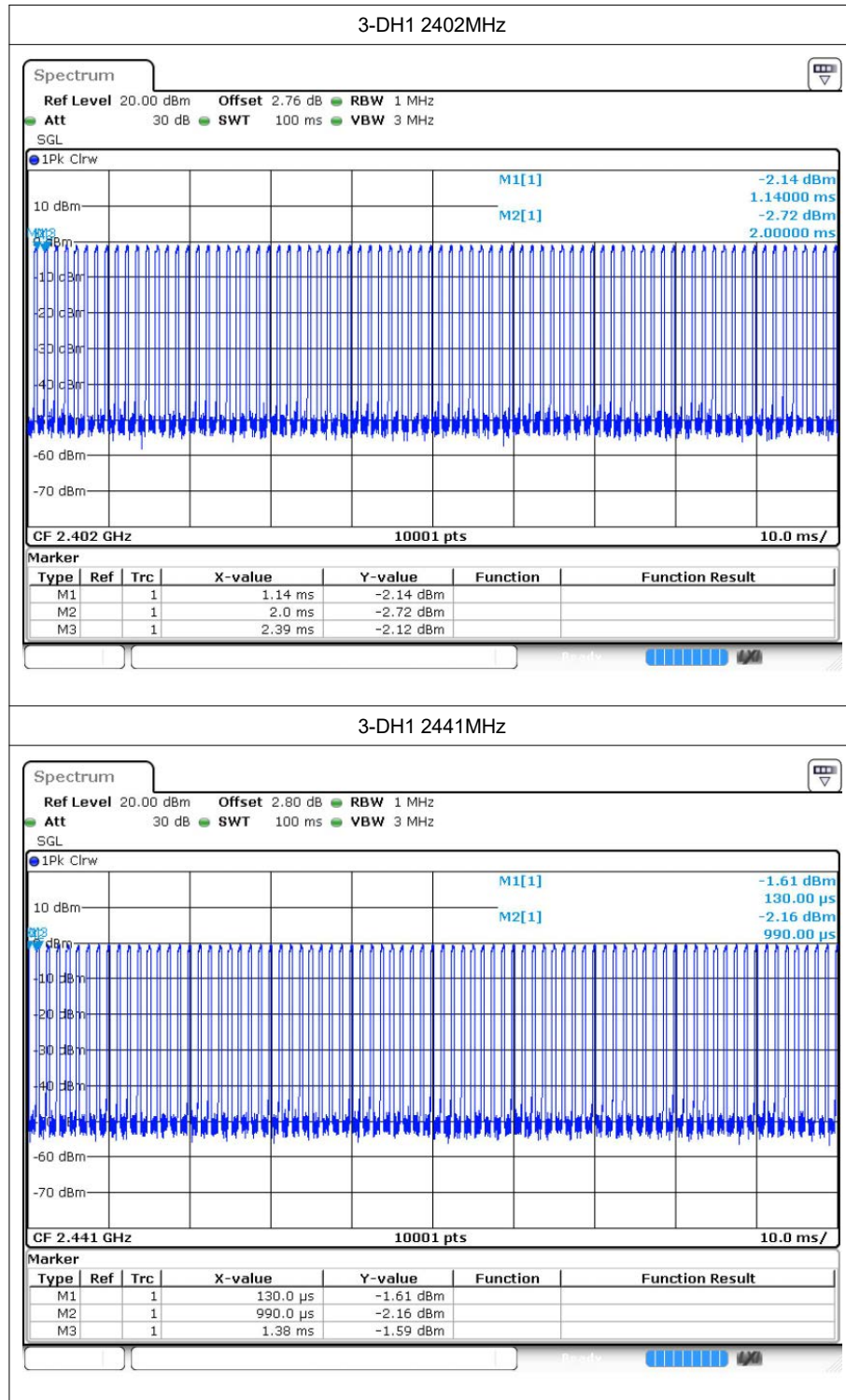
Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor	1/T (kHz)
1-DH1	2402	31.2	5.06	2.63
1-DH1	2441	31.21	5.06	2.63
1-DH1	2480	31.23	5.05	2.63
2-DH1	2402	32	4.95	2.56
2-DH1	2441	32	4.95	2.56
2-DH1	2480	32	4.95	2.56
3-DH1	2402	32	4.95	2.56
3-DH1	2441	32.01	4.95	2.56
3-DH1	2480	32	4.95	2.56

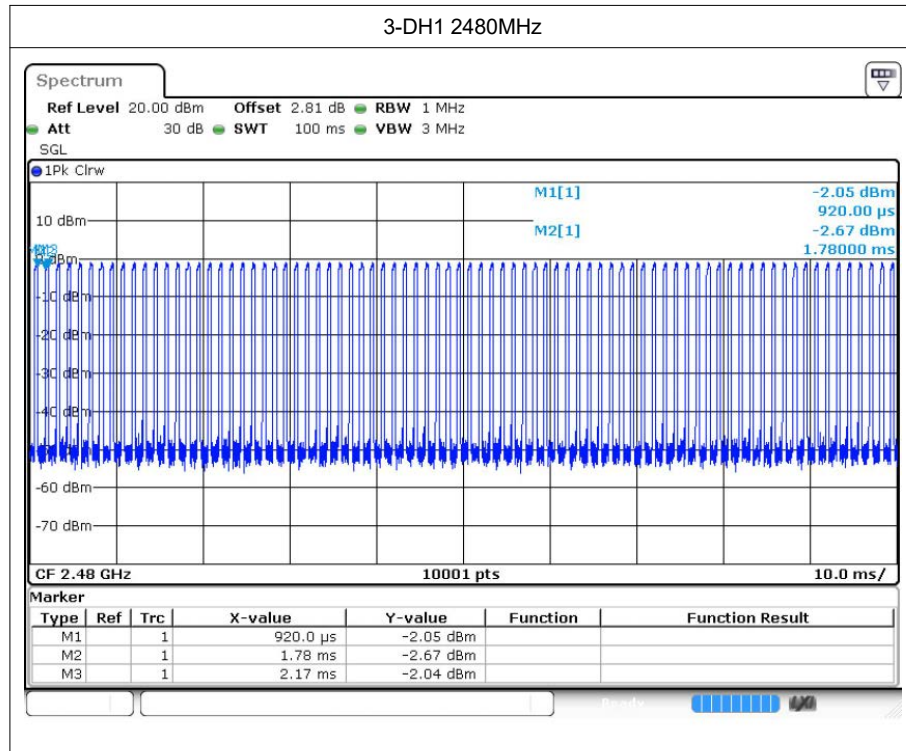
1.2 Test Graphs









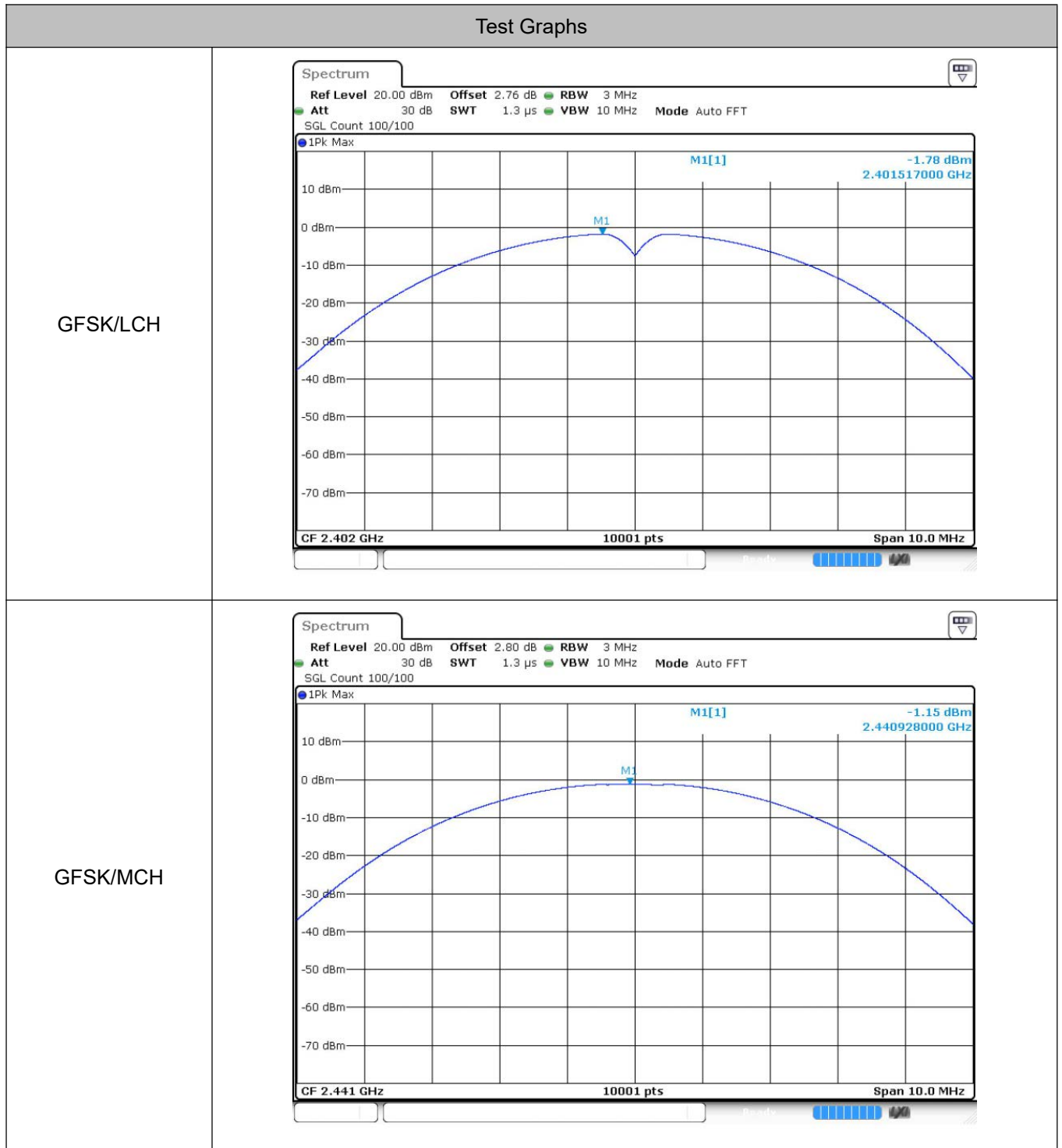


2 Maximum Conducted Peak Output Power

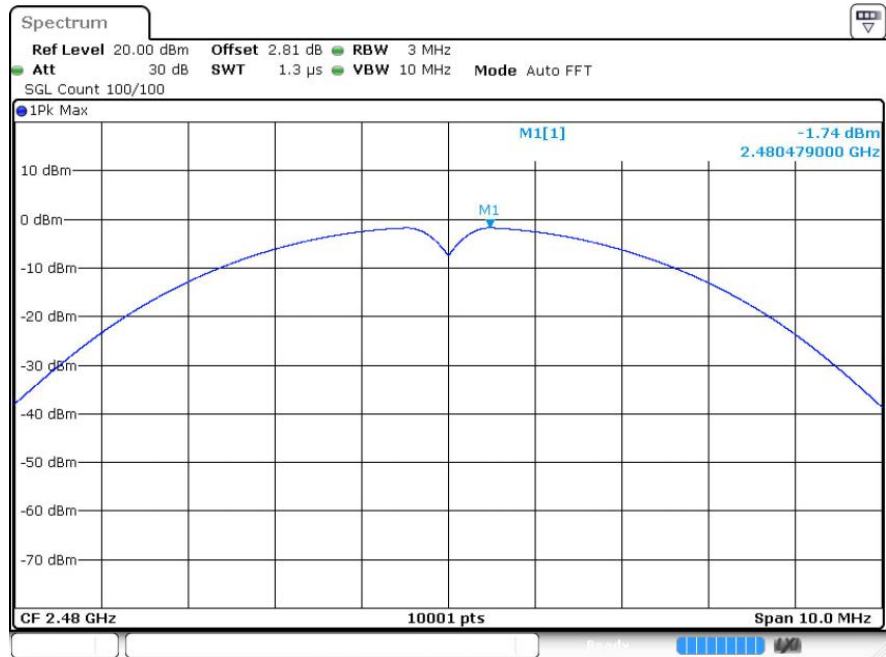
2.1 Test Result

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-1.78	21	Pass
	MCH	-1.15	21	Pass
	HCH	-1.74	21	Pass
$\pi/4$ DQPSK	LCH	-0.8	21	Pass
	MCH	-0.14	21	Pass
	HCH	-0.63	21	Pass
8DPSK	LCH	-0.52	21	Pass
	MCH	-0.1	21	Pass
	HCH	-0.8	21	Pass

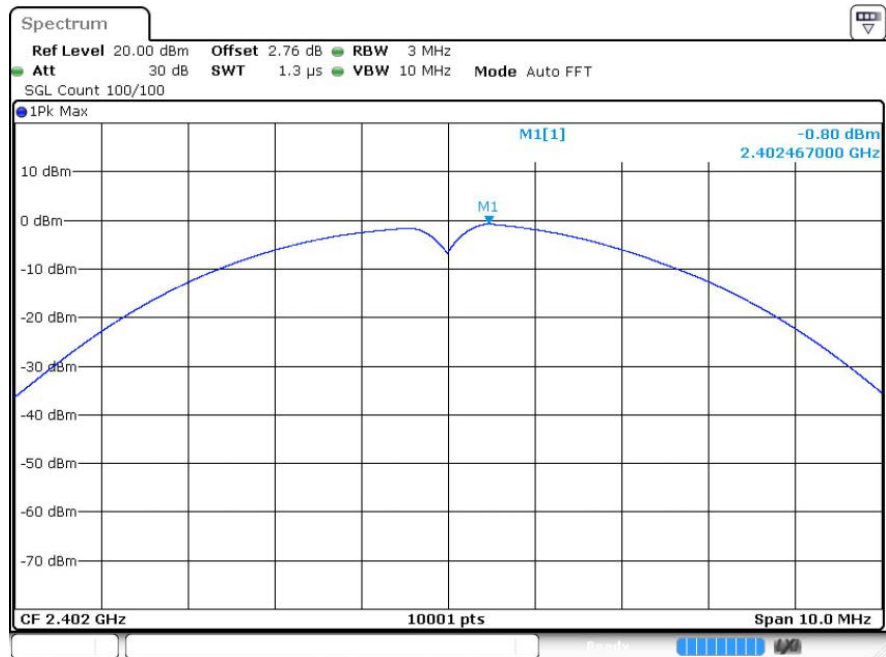
2.2 Test Graphs



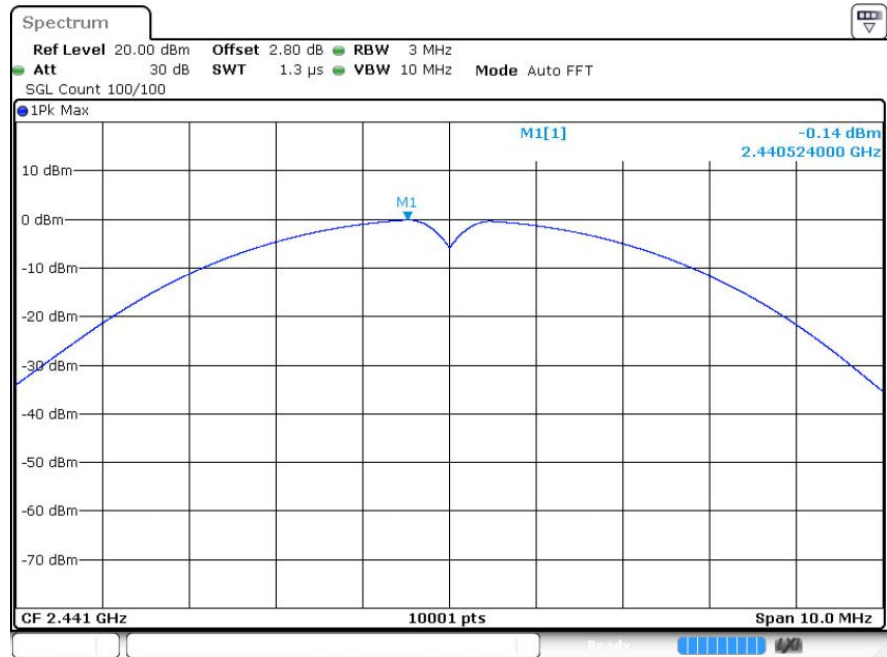
GFSK/HCH



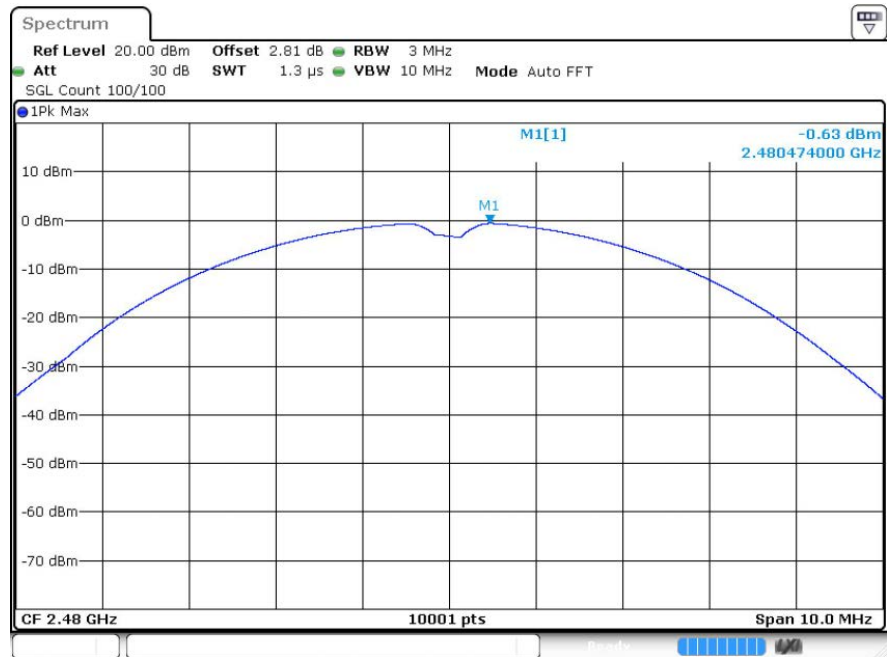
$\pi/4$ DQPSK/LCH



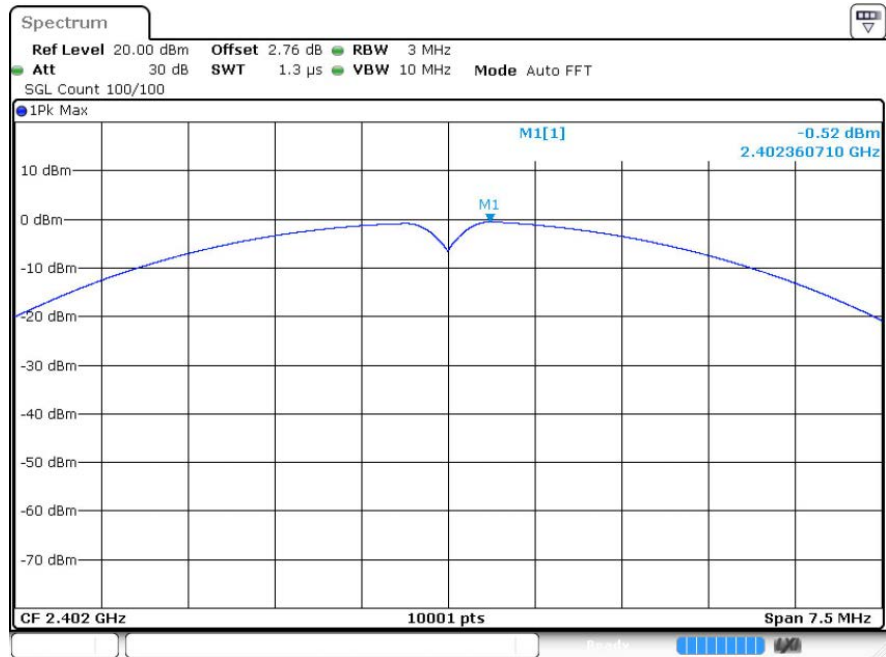
$\pi/4$ DQPSK/MCH



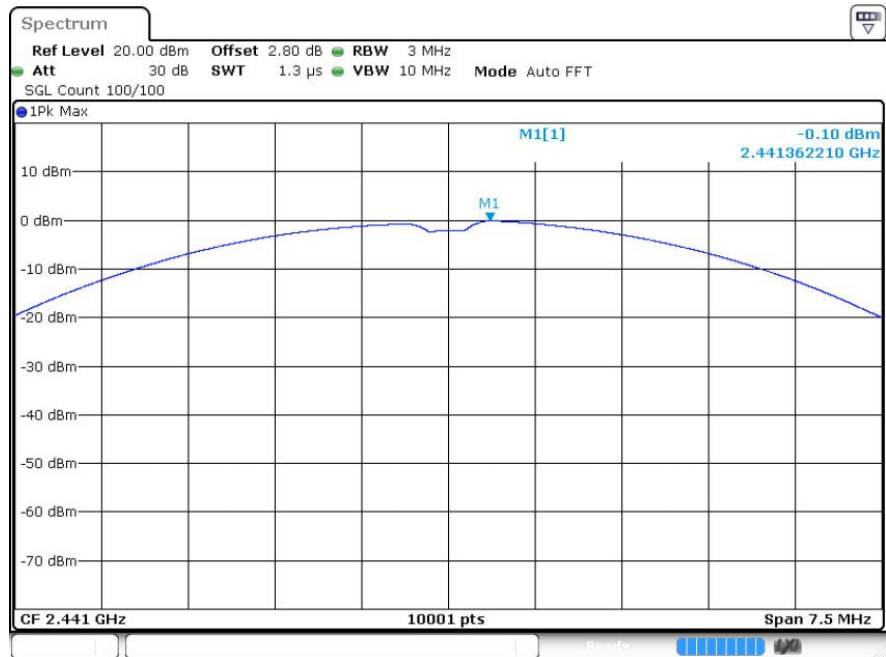
$\pi/4$ DQPSK/HCH



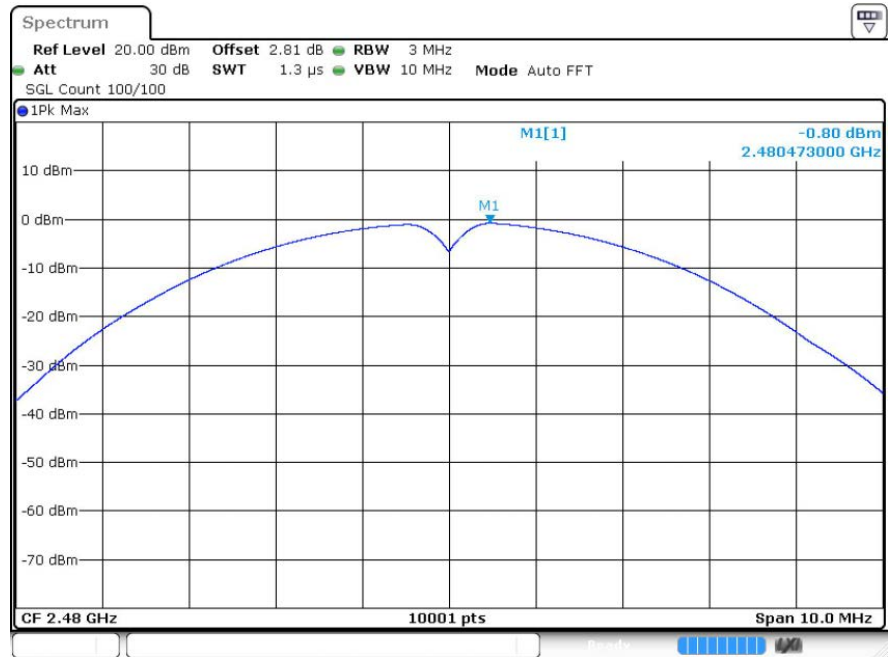
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

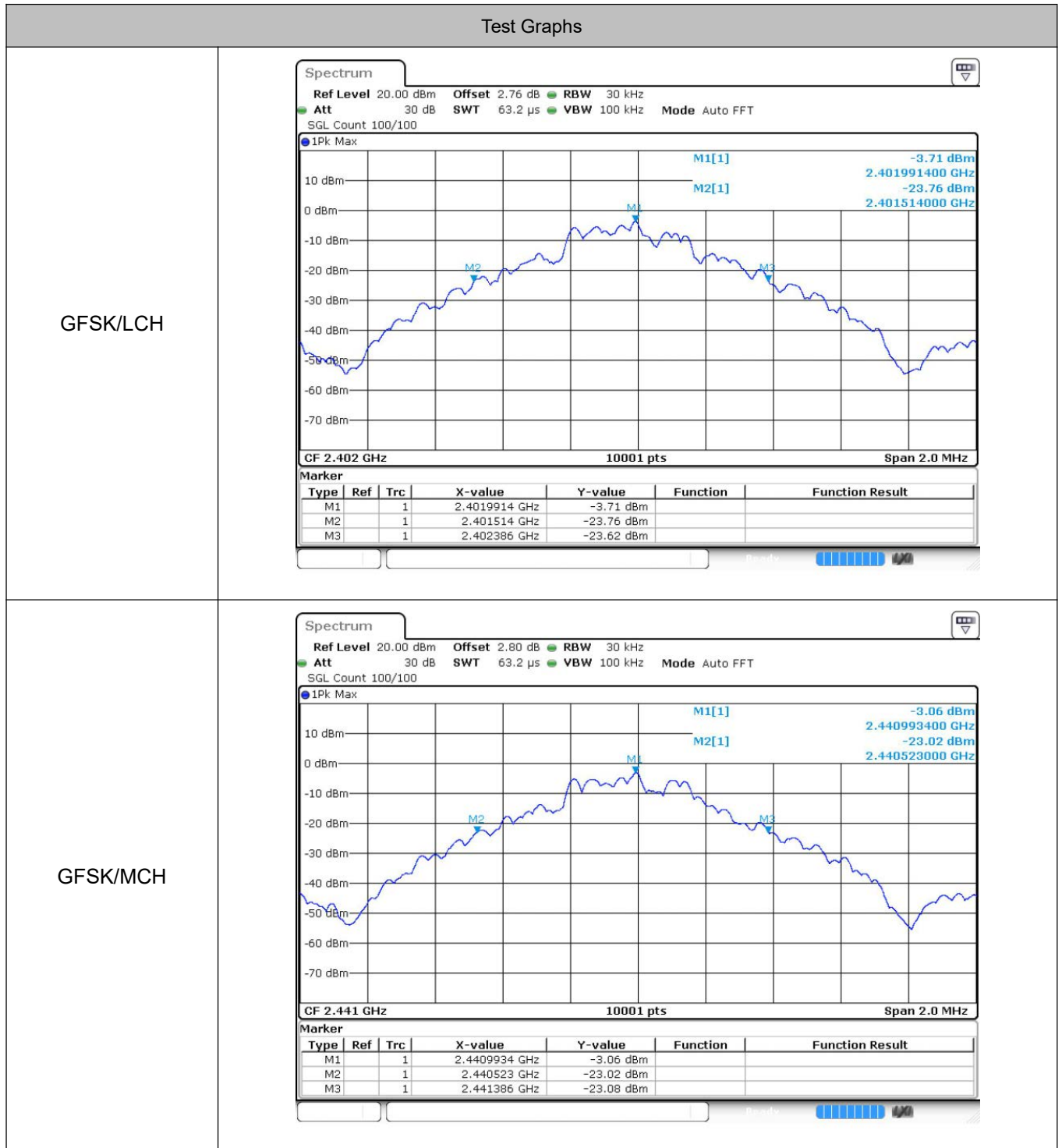


3 20dB Bandwidth

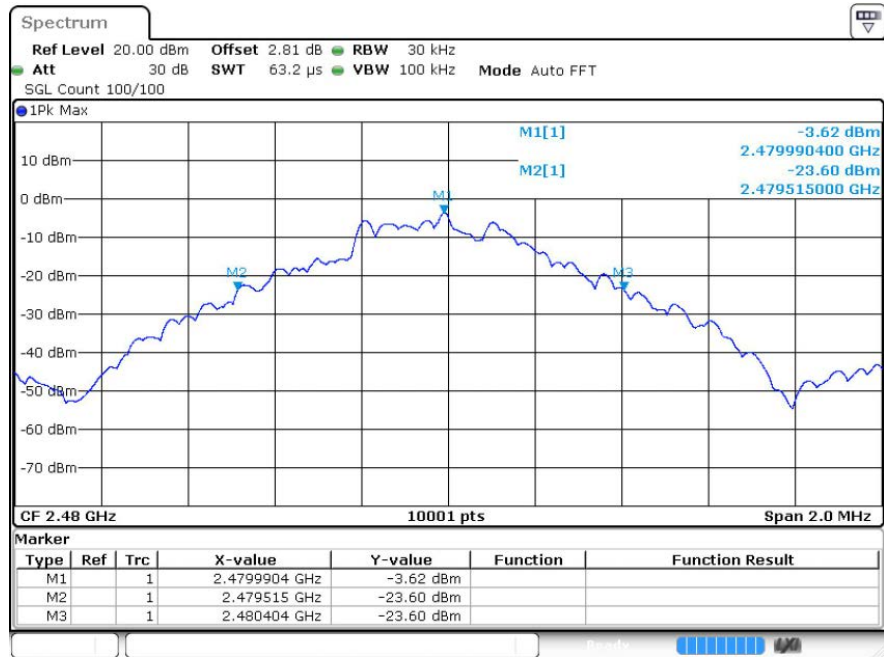
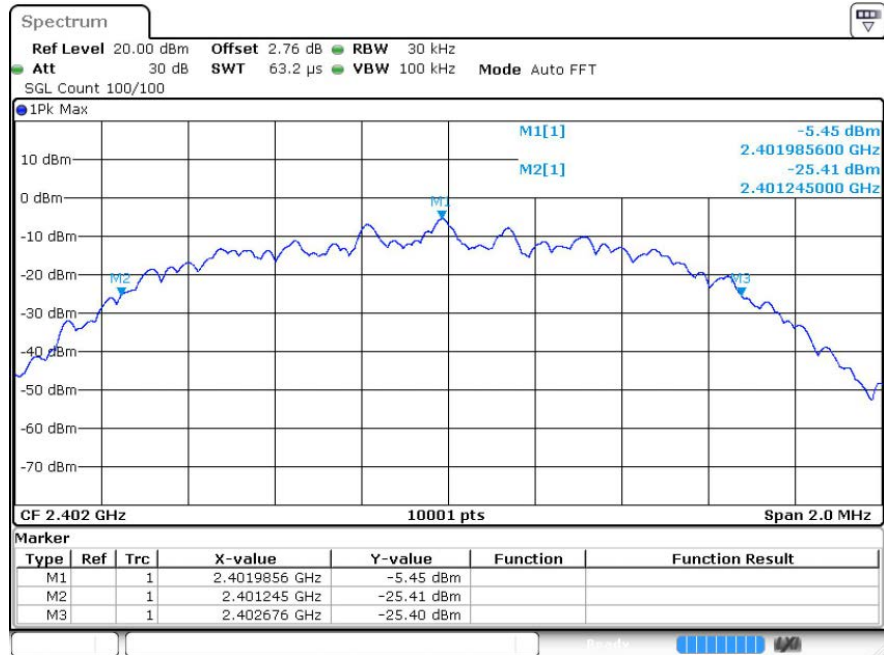
3.1 Test Result

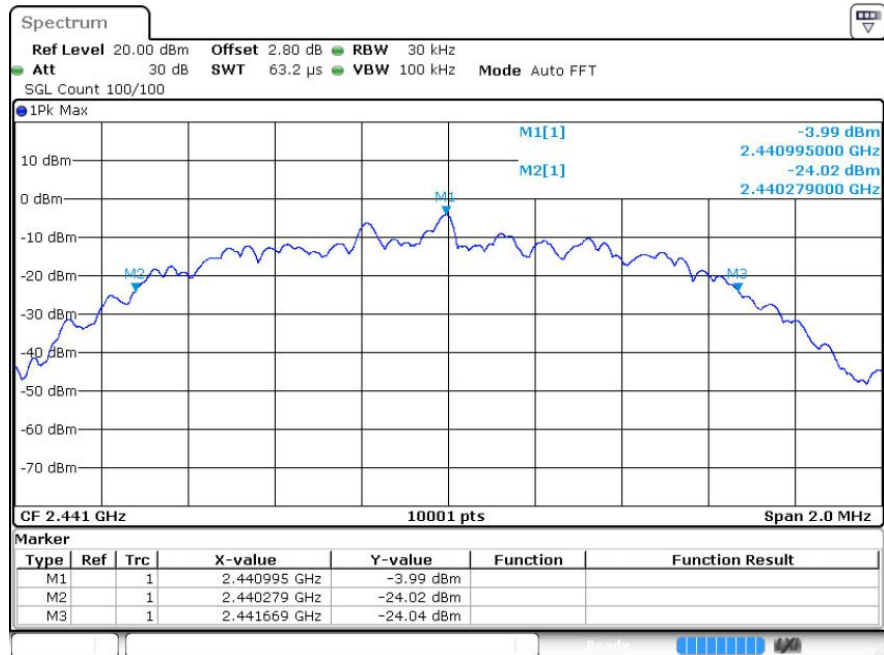
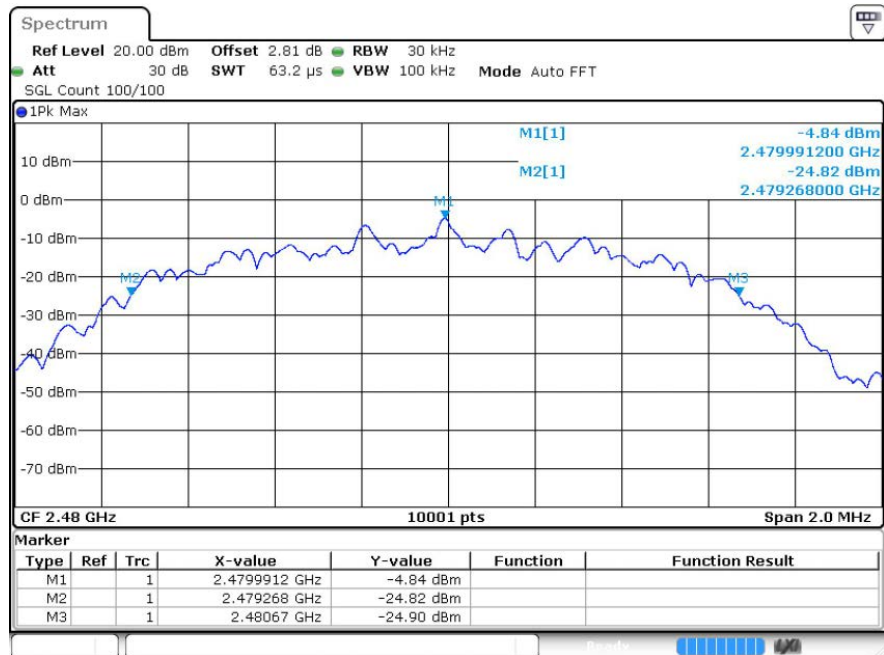
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.872	Not Specified	Pass
	MCH	0.863	Not Specified	Pass
	HCH	0.889	Not Specified	Pass
$\pi/4$ DQPSK	LCH	1.431	Not Specified	Pass
	MCH	1.389	Not Specified	Pass
	HCH	1.402	Not Specified	Pass
8DPSK	LCH	1.427	Not Specified	Pass
	MCH	1.418	Not Specified	Pass
	HCH	1.42	Not Specified	Pass

3.2 Test Graphs

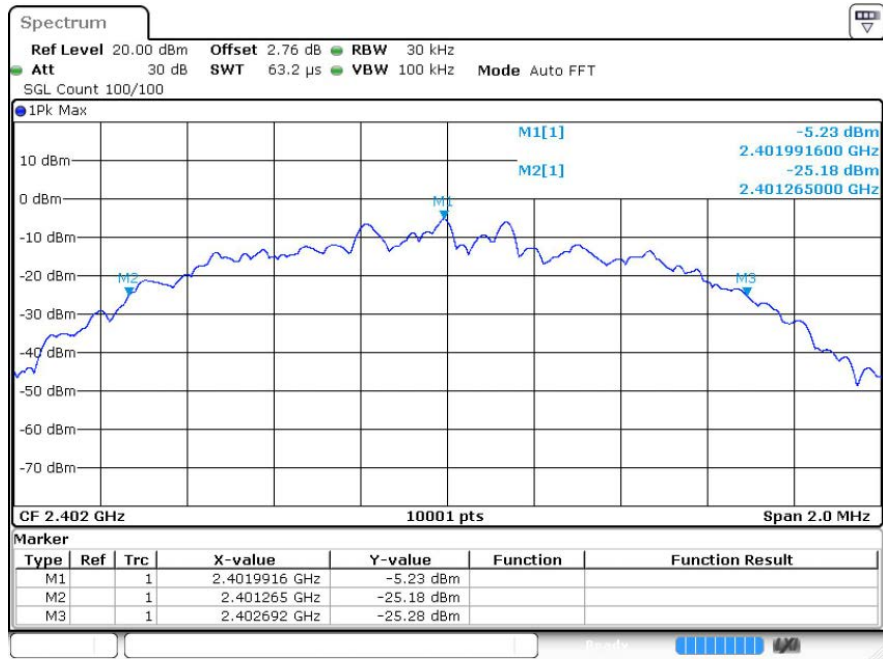


GFSK/HCH

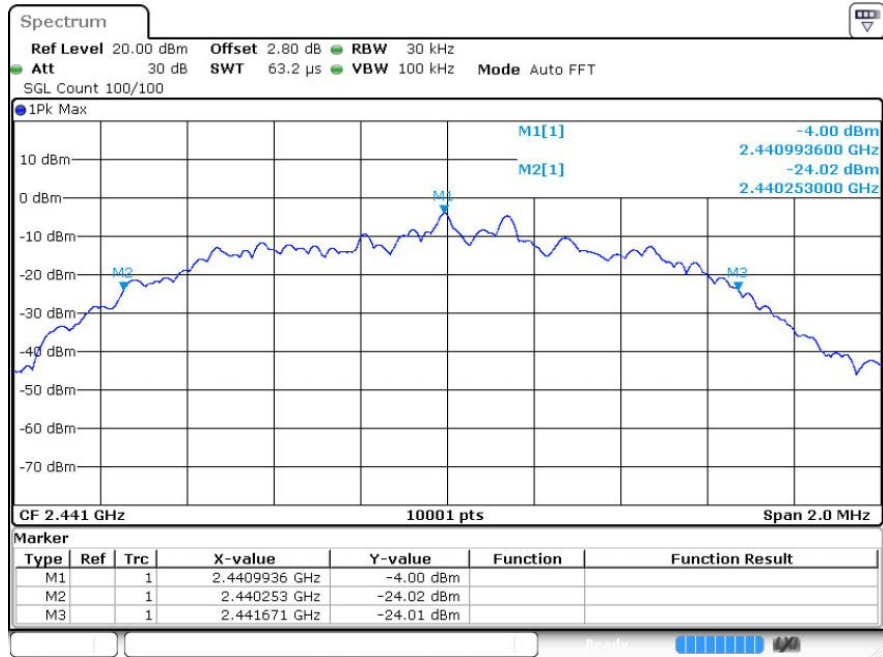

 $\pi/4$ DQPSK/LCH


$\pi/4$ DQPSK/MCH

 $\pi/4$ DQPSK/HCH


8DPSK/LCH

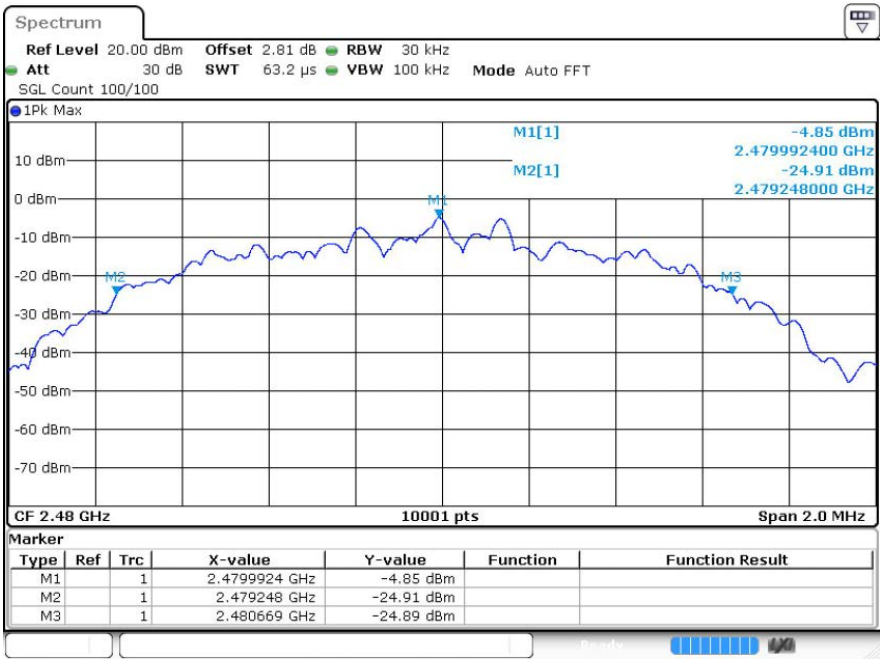


8DPSK/MCH





8DPSK/HCH

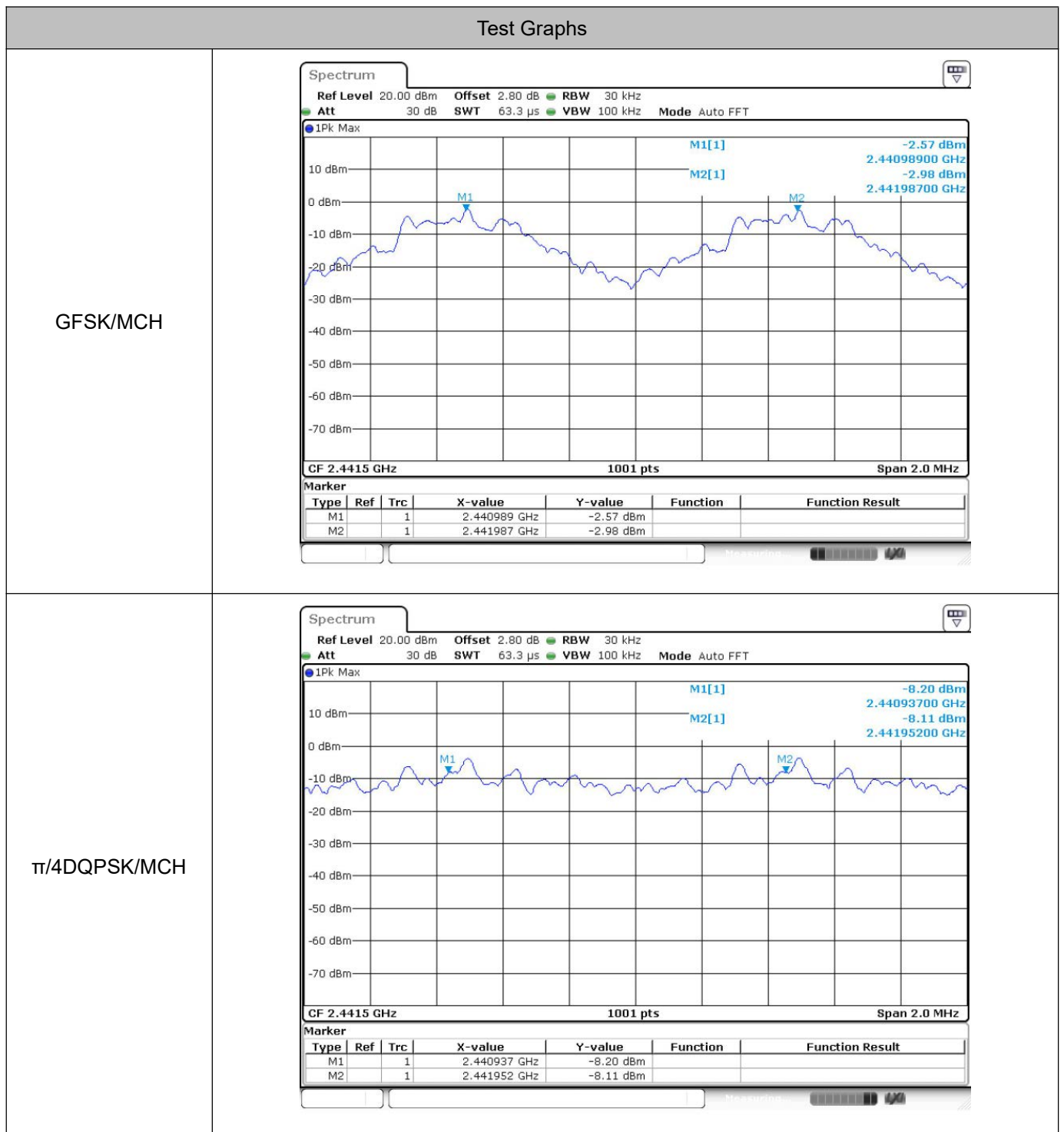


4 Carrier Frequency Separation

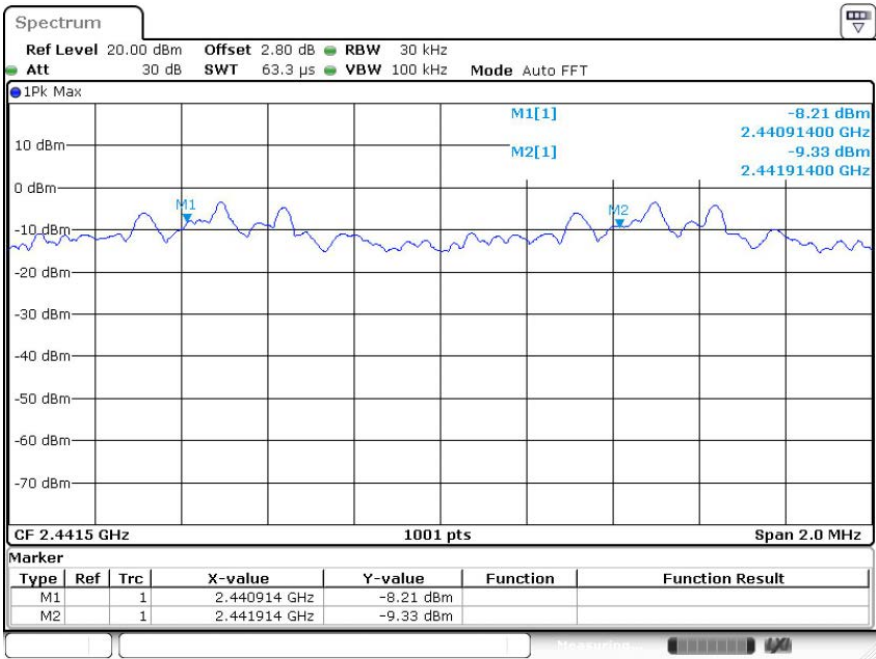
4.1 Test Result

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	0.998	0.575	Pass
$\pi/4$ DQPSK	MCH	1.015	0.926	Pass
8DPSK	MCH	1	0.945	Pass

4.2 Test Graphs



8DPSK/MCH

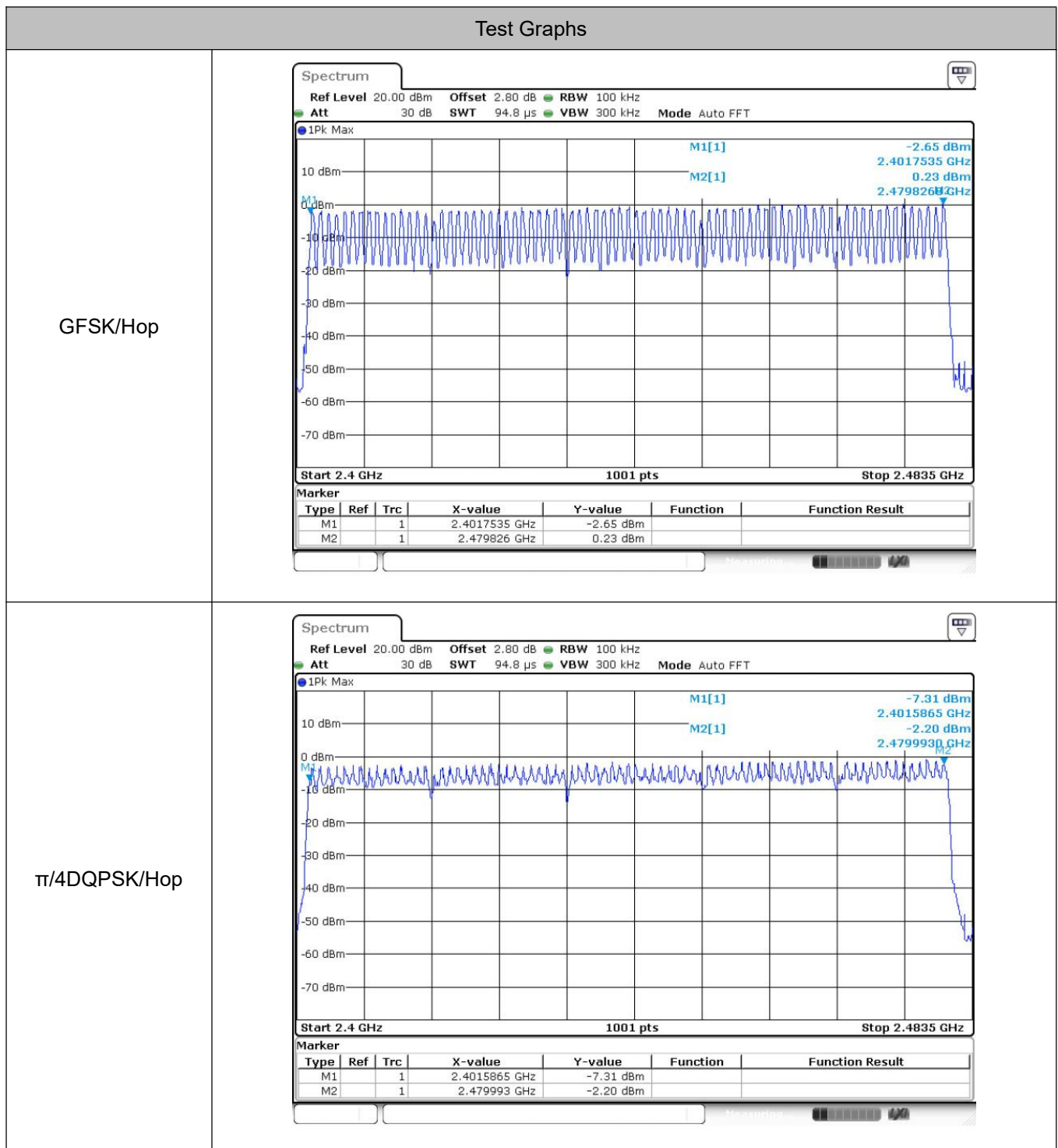


5 Hopping Channel Number

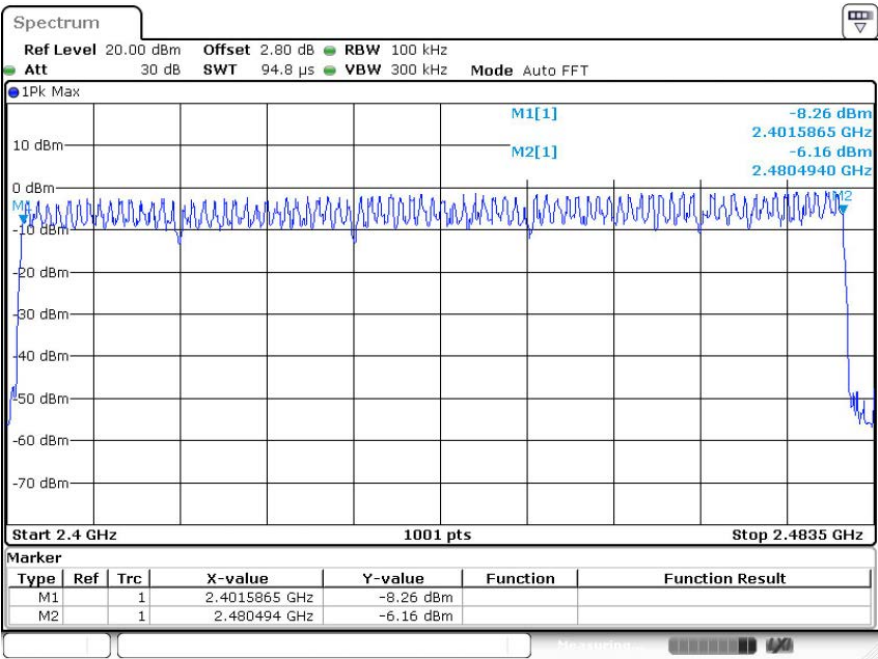
5.1 Test Result

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

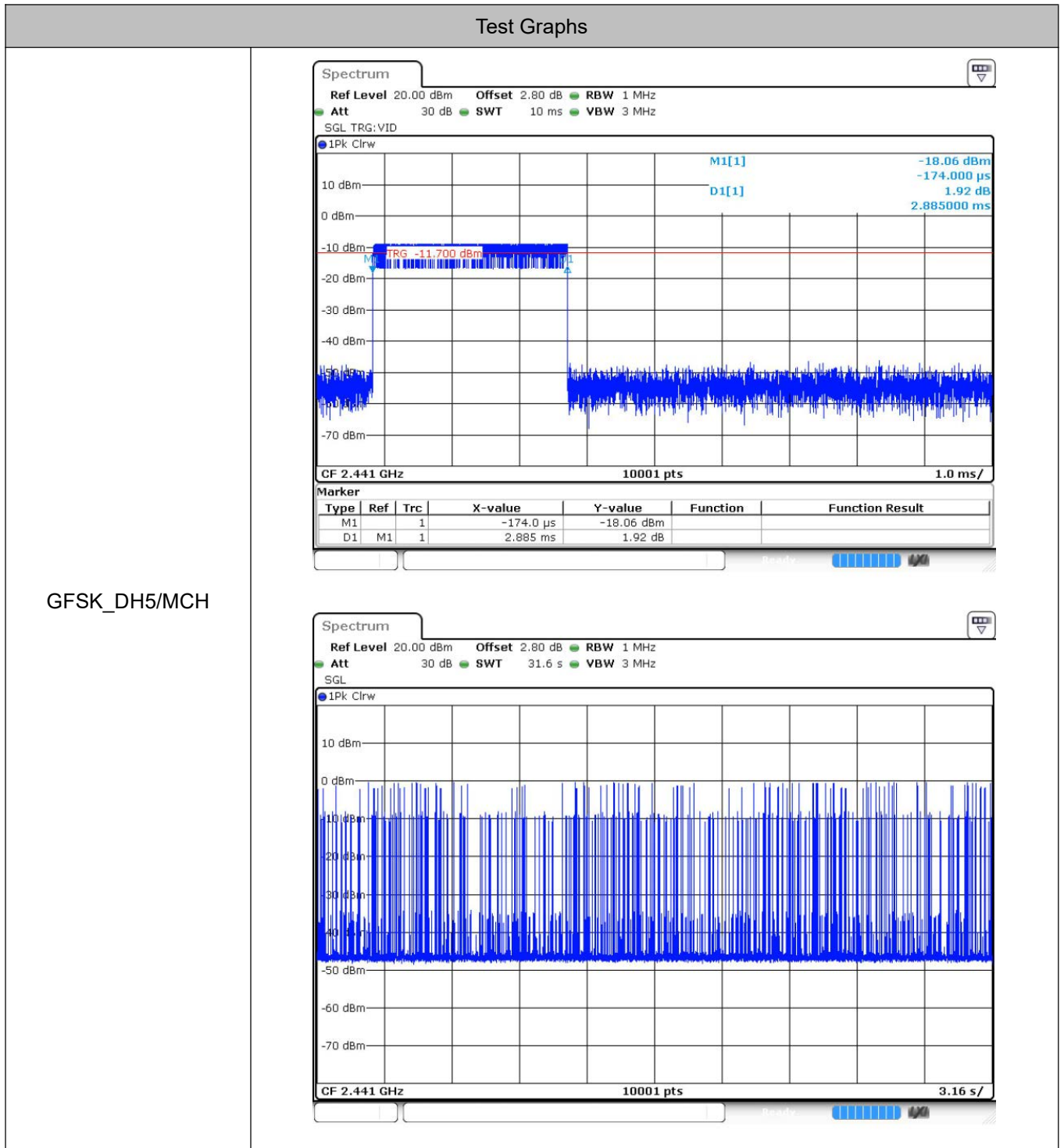


6 Dwell Time

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	2.885	106	305.81	0.4	Pass
$\pi/4$ DQPSK	2DH5	MCH	2.889	113	326.457	0.4	Pass
8DPSK	3DH5	MCH	2.891	118	341.138	0.4	Pass

6.2 Test Graphs



Spectrum

Ref Level 20.00 dBm Offset 2.80 dB RBW 1 MHz

Att 30 dB SWT 31.6 s VBW 3 MHz

SGL

1Pk Clrw

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

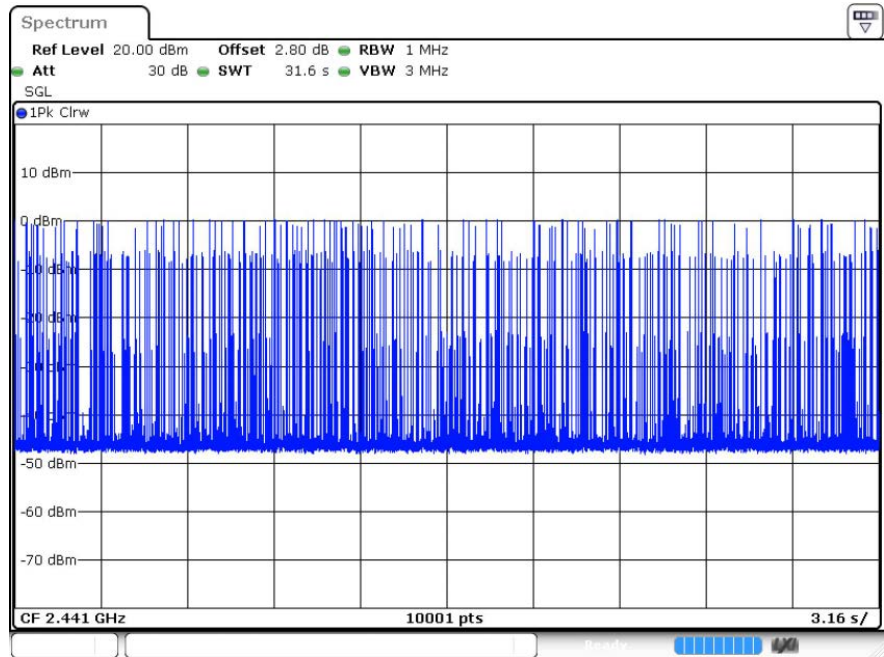
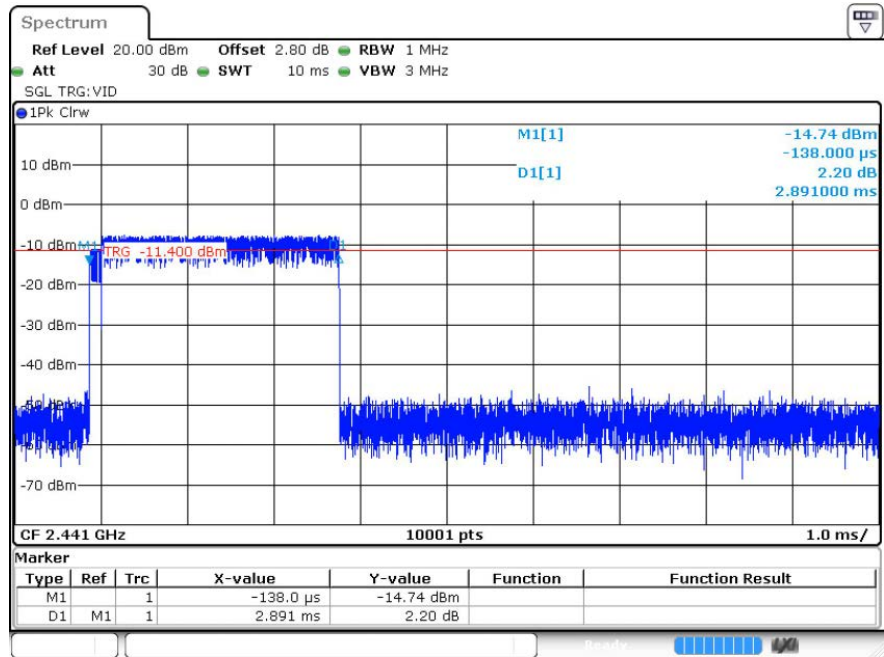
-50 dBm

-60 dBm

-70 dBm

CF 2.441 GHz 10001 pts 3.16 s/

8DPSK_3DH5/MCH



7 RF Conducted Spurious Emissions

7.1 Test Result

Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-39.38	-20	Pass
	MCH	-39.88	-20	Pass
	HCH	-39.51	-20	Pass
$\pi/4$ DQPSK	LCH	-37.9	-20	Pass
	MCH	-38.2	-20	Pass
	HCH	-38.36	-20	Pass
8DPSK	LCH	-37.45	-20	Pass
	MCH	-38.36	-20	Pass
	HCH	-37.79	-20	Pass