



Appendix A

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

Product Name: FMIAMISW 3 BAND DSP RADIO USBITF CARD PLAYER

Trade Mark: Feexot

Test Model: F-1317BT

Environmental Conditions

Temperature:	24.5℃
Relative Humidity:	52.3%
ATM Pressure:	101Kpa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung



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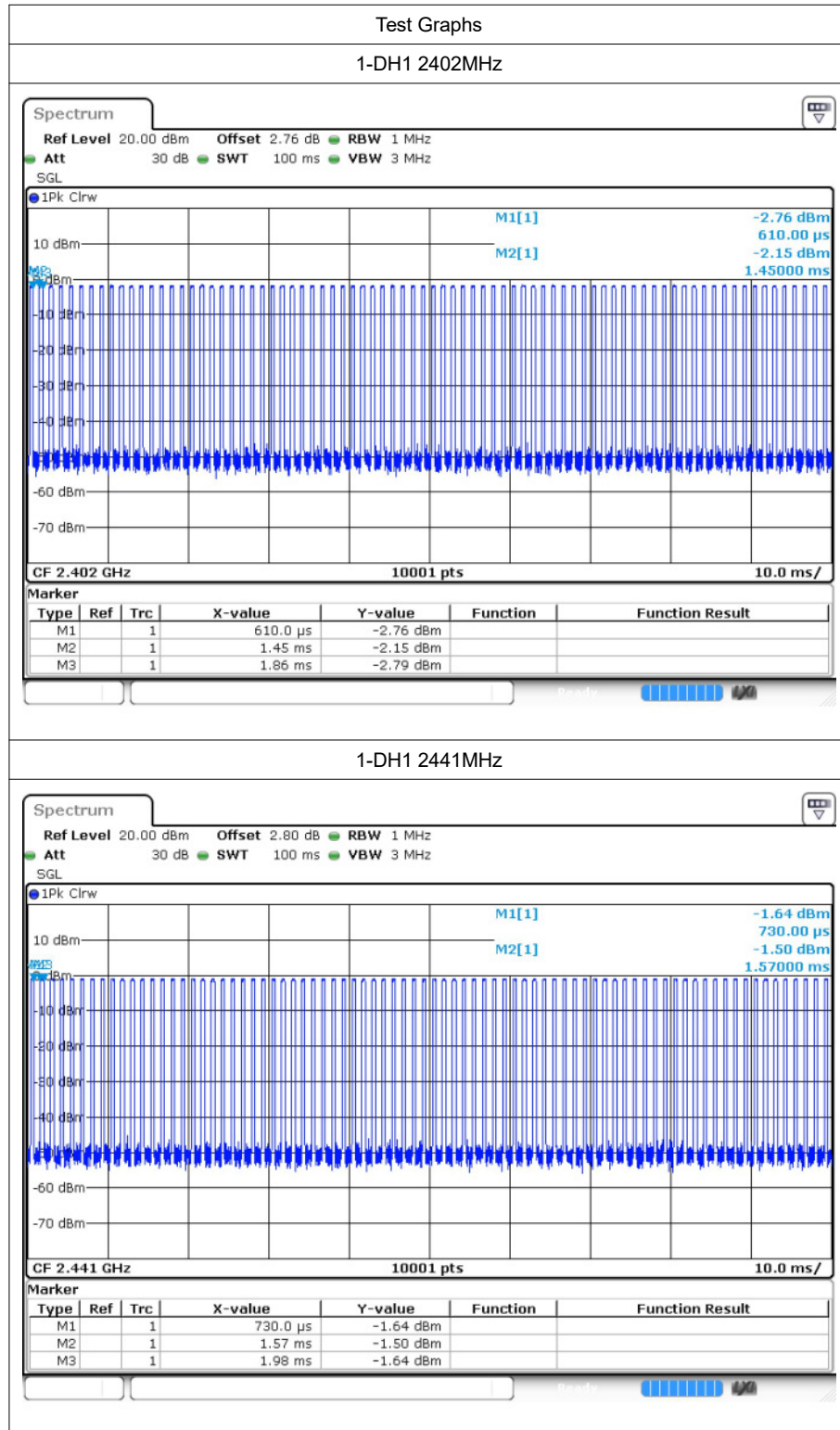
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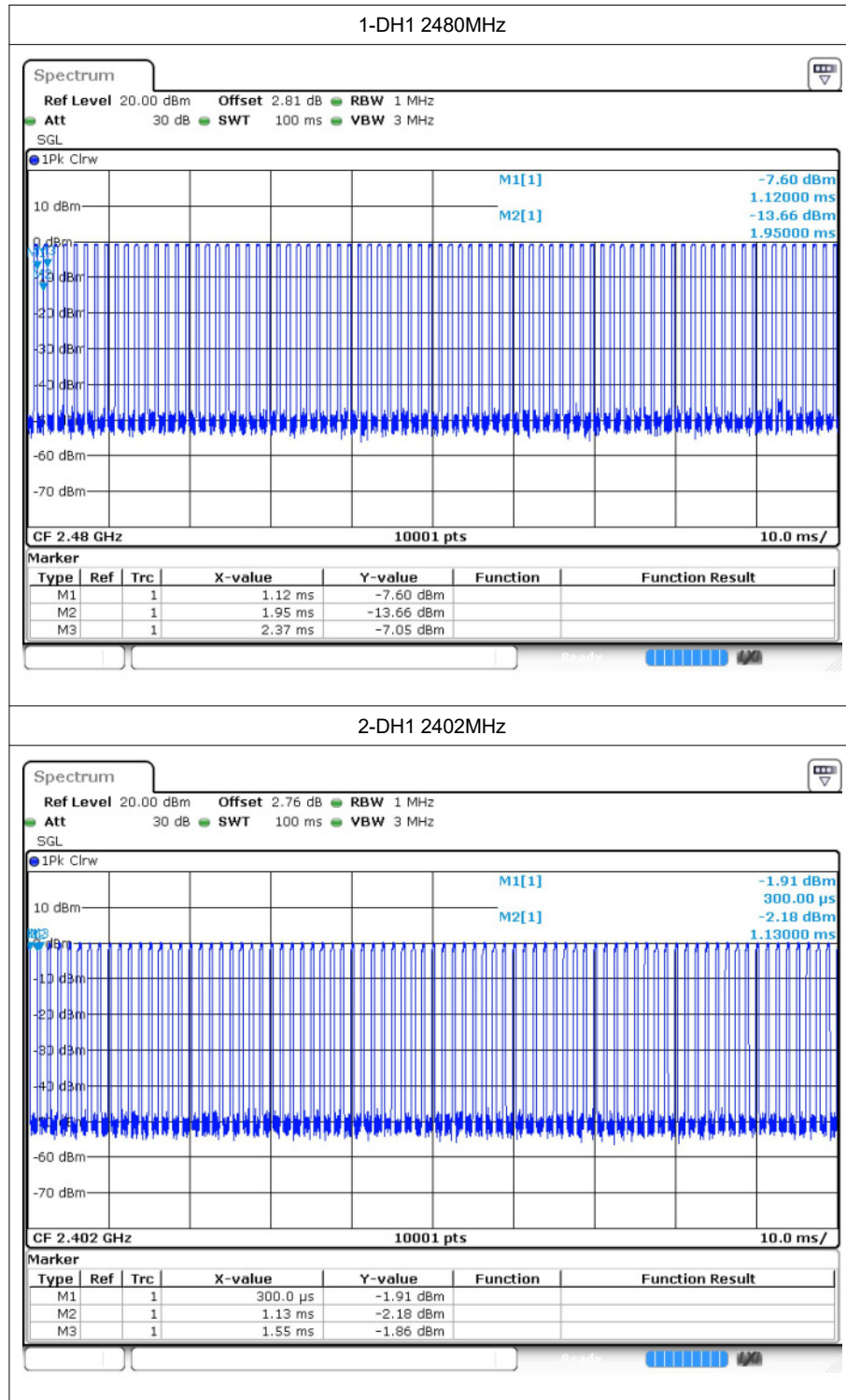
1 Duty Cycle

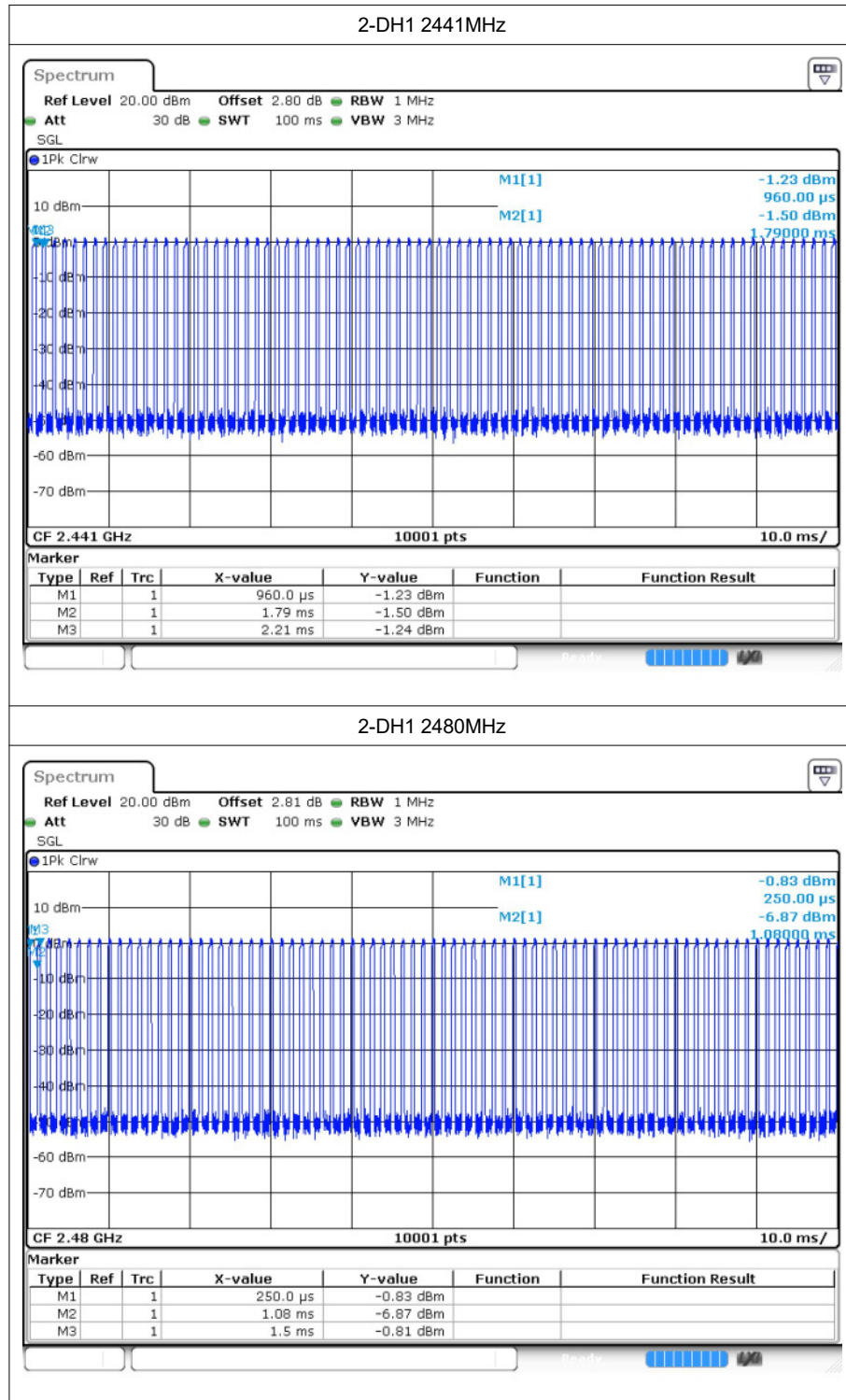
1.1 Test Result

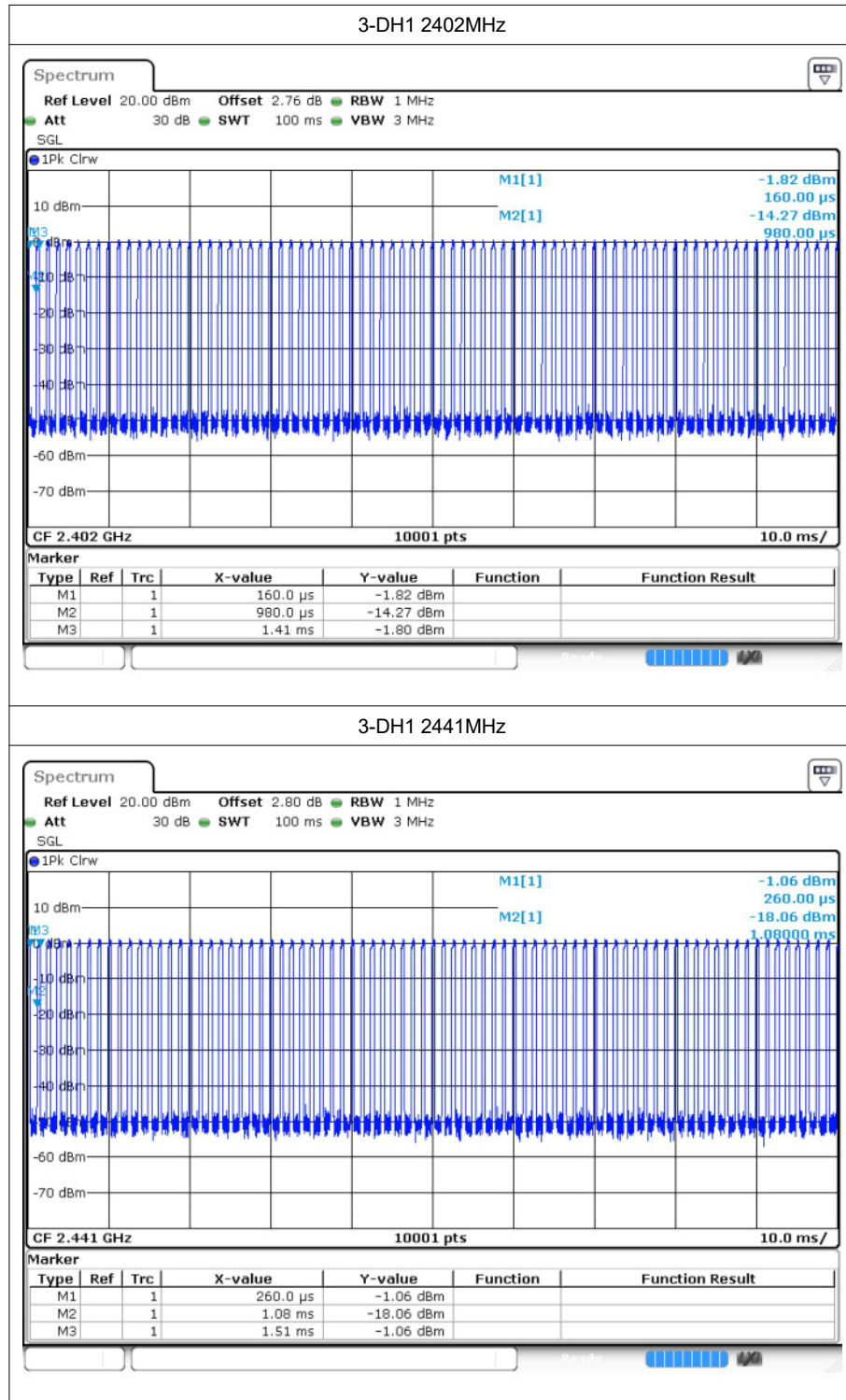
Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor	1/T (kHz)
1-DH1	2402	33.6	4.74	2.44
1-DH1	2441	33.9	4.7	2.44
1-DH1	2480	33.99	4.69	2.38
2-DH1	2402	34.42	4.63	2.38
2-DH1	2441	34.4	4.63	2.38
2-DH1	2480	35.08	4.55	2.38
3-DH1	2402	34.8	4.58	2.33
3-DH1	2441	34.57	4.61	2.33
3-DH1	2480	34.89	4.57	2.38

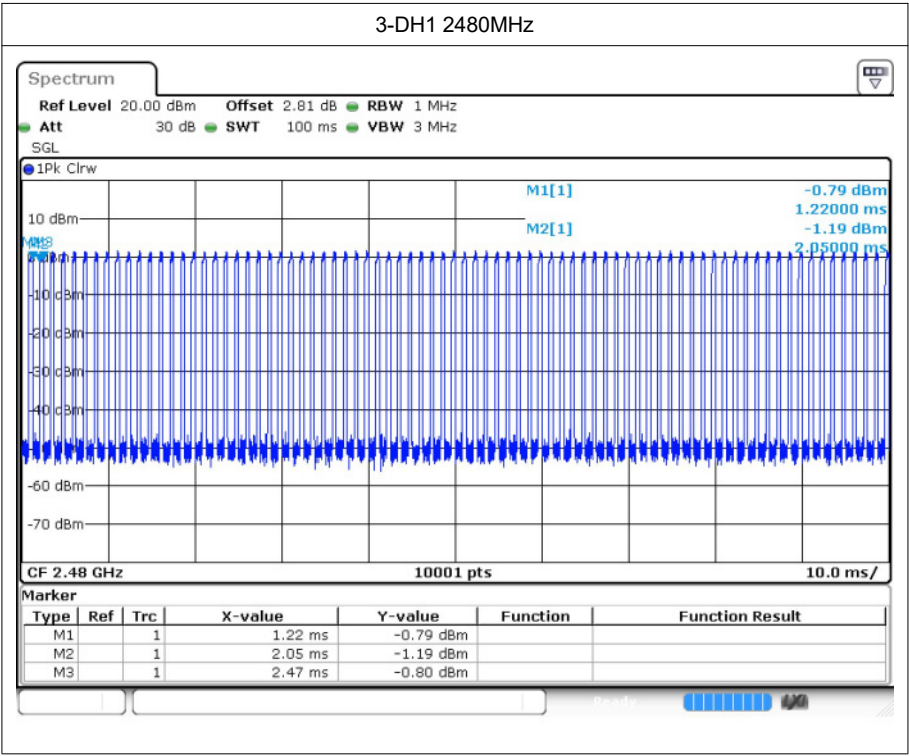
1.2 Test Graphs









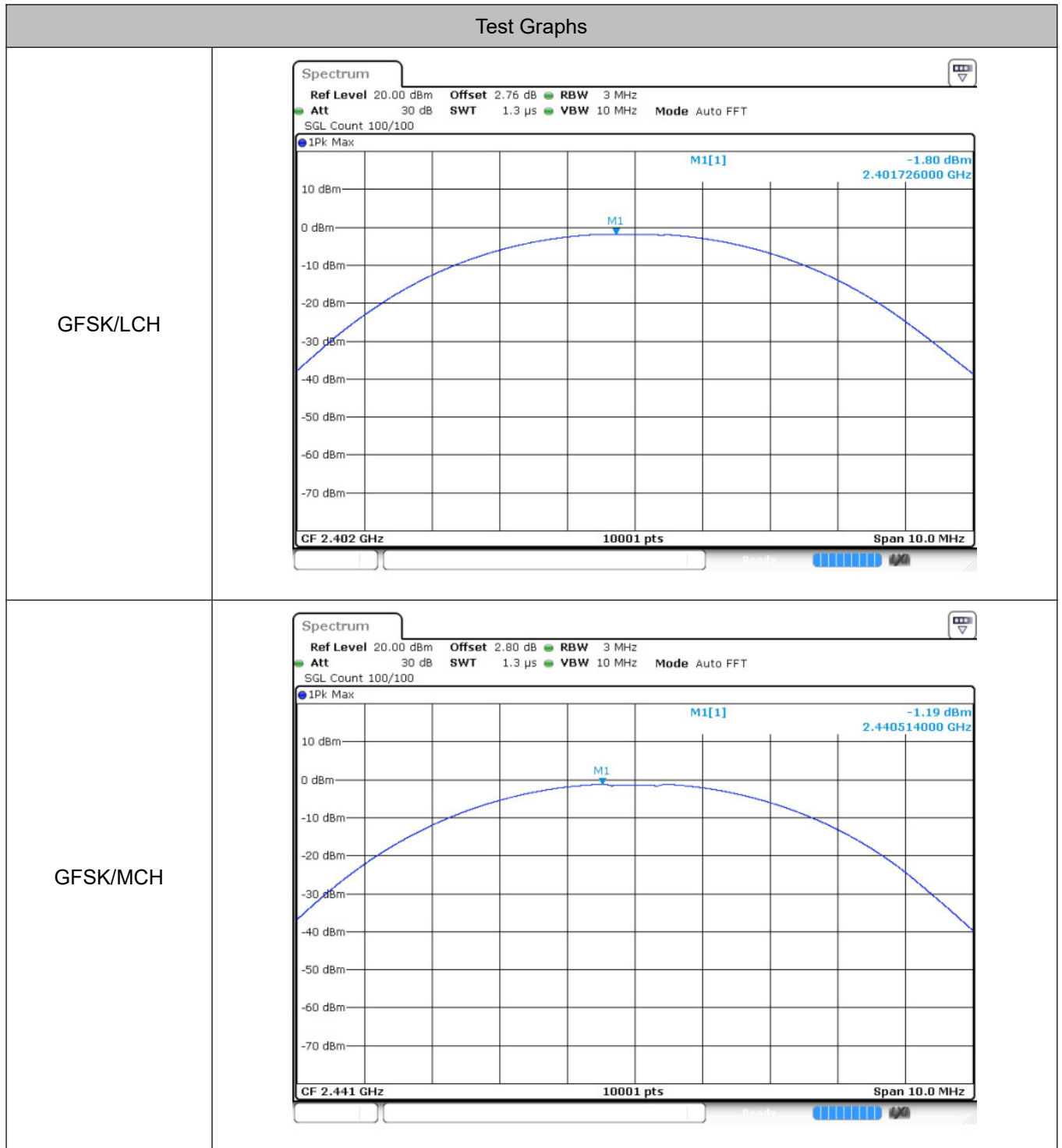


2 Maximum Conducted Peak Output Power

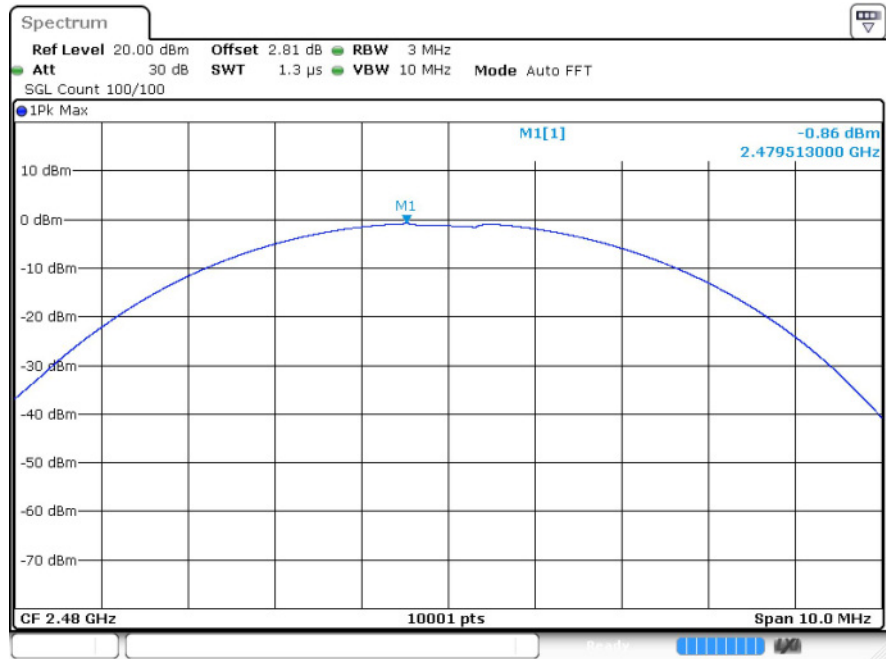
2.1 Test Result

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-1.8	21	Pass
	MCH	-1.19	21	Pass
	HCH	-0.86	21	Pass
$\pi/4$ DQPSK	LCH	-0.06	21	Pass
	MCH	0.95	21	Pass
	HCH	0.96	21	Pass
8DPSK	LCH	0.42	21	Pass
	MCH	1.17	21	Pass
	HCH	1.56	21	Pass

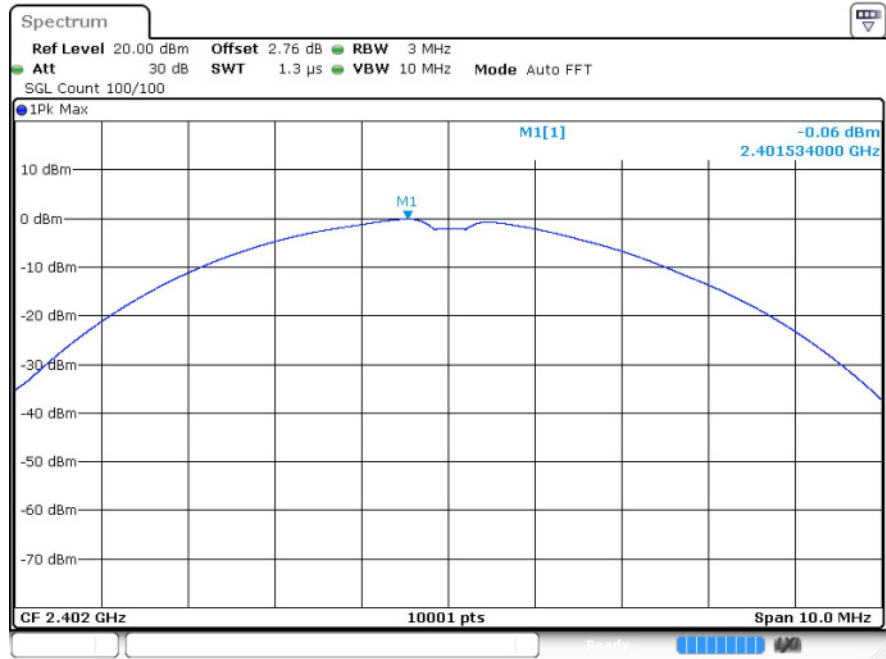
2.2 Test Graphs



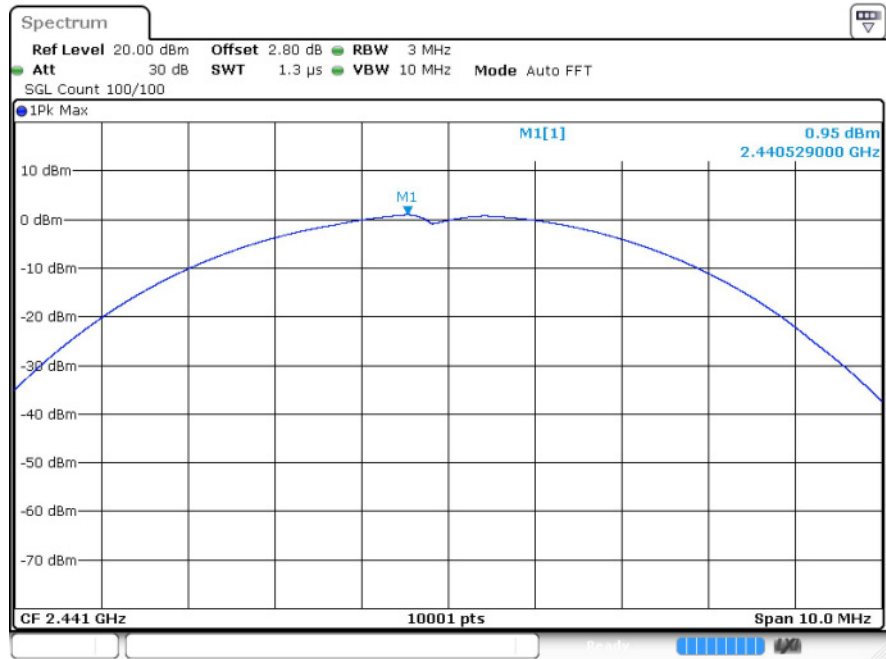
GFSK/HCH



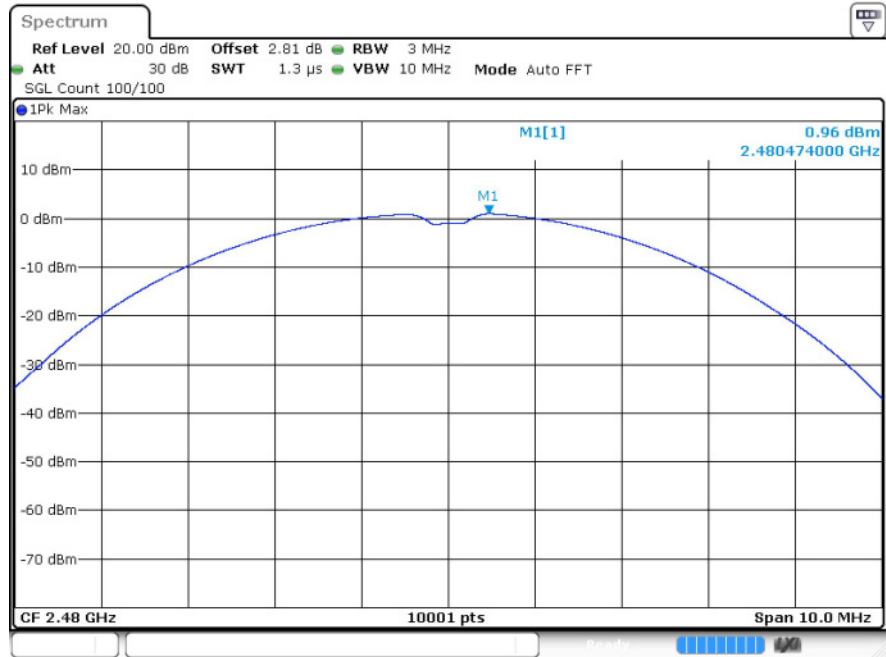
$\pi/4$ DQPSK/LCH



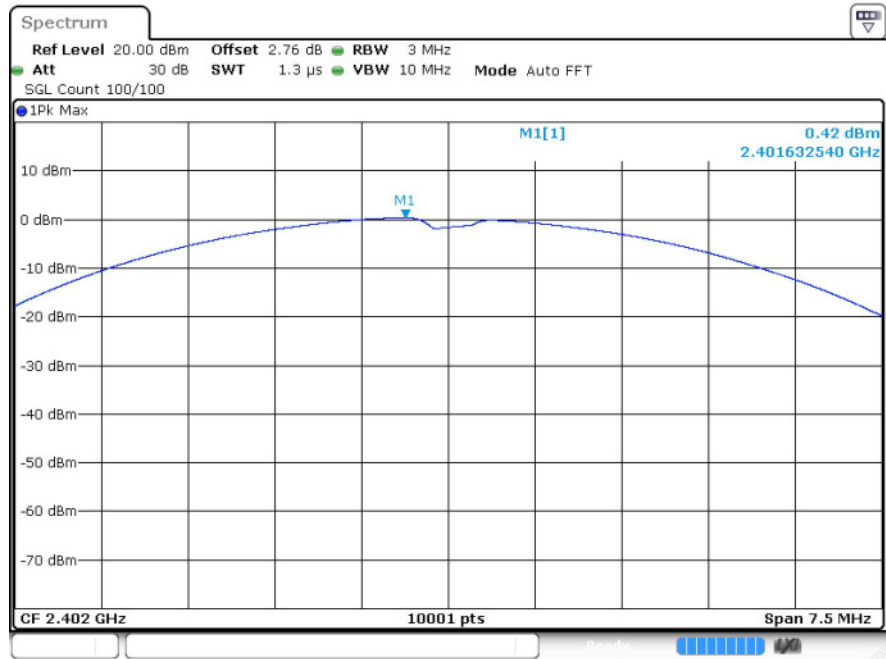
$\pi/4$ DQPSK/MCH



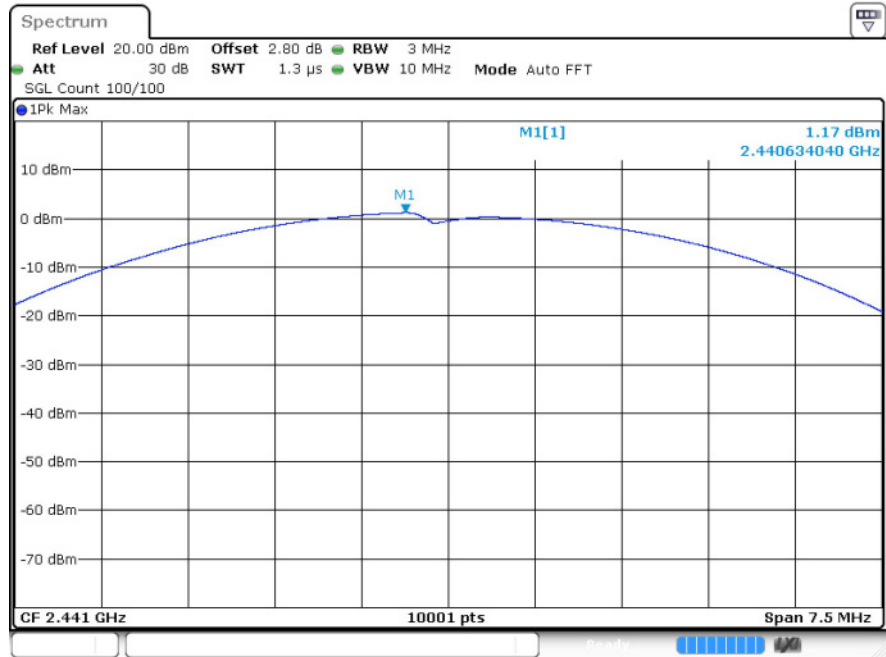
$\pi/4$ DQPSK/HCH



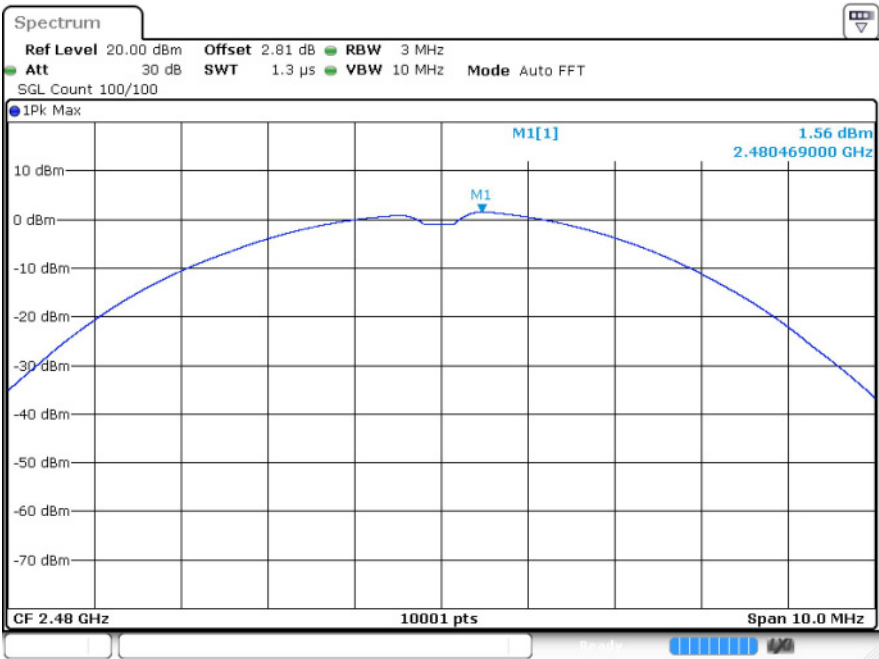
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

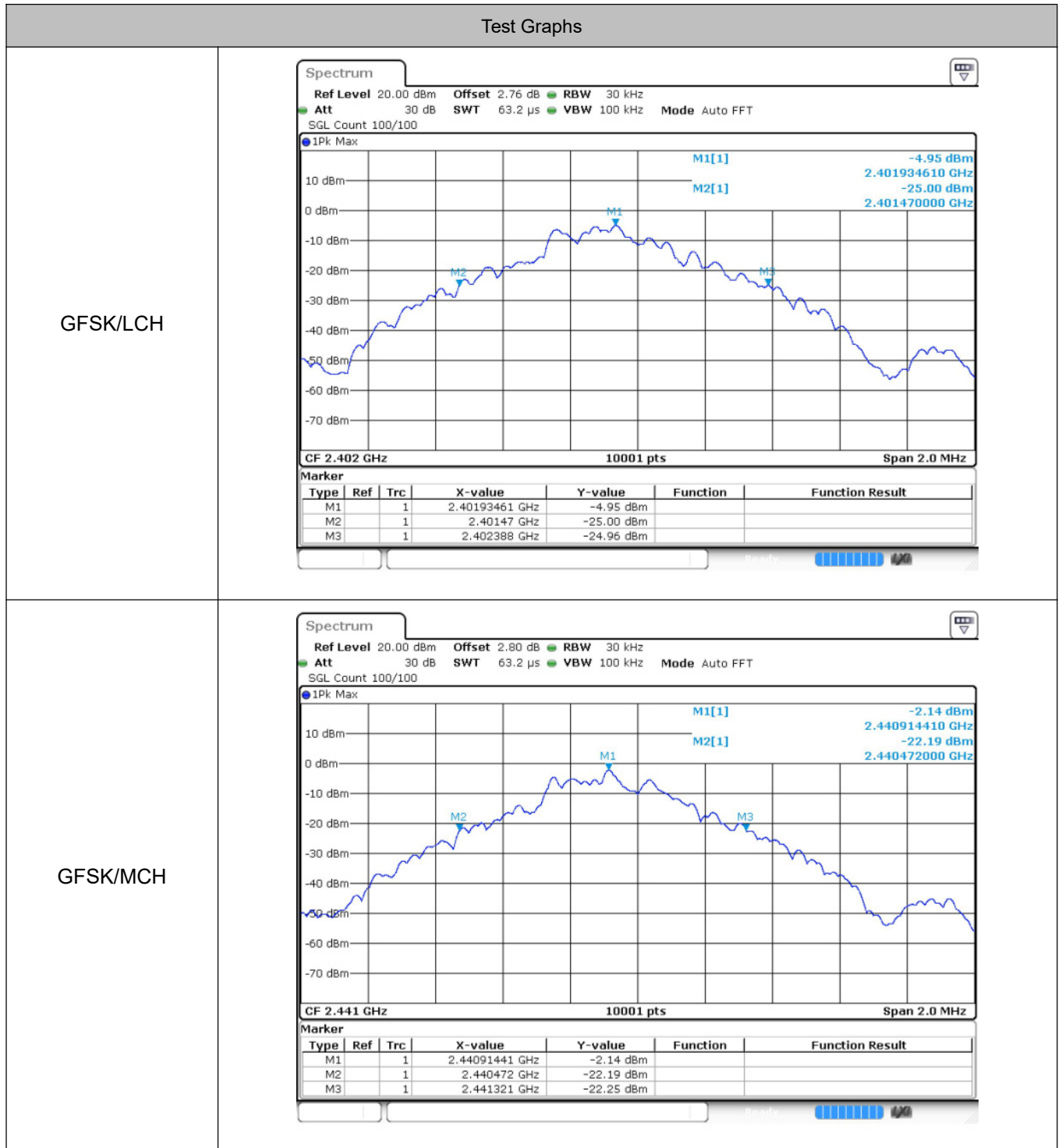


3 20dB Bandwidth

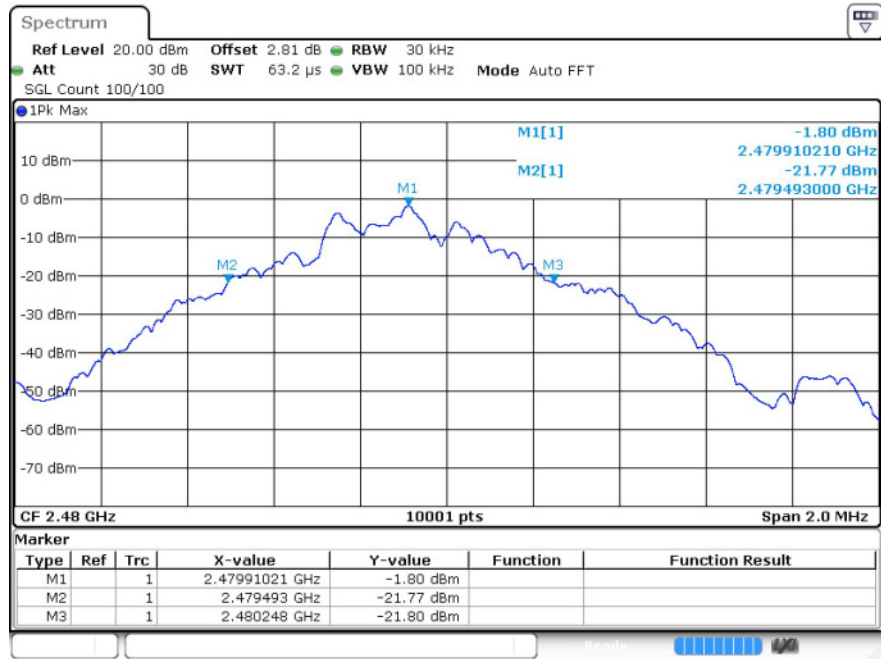
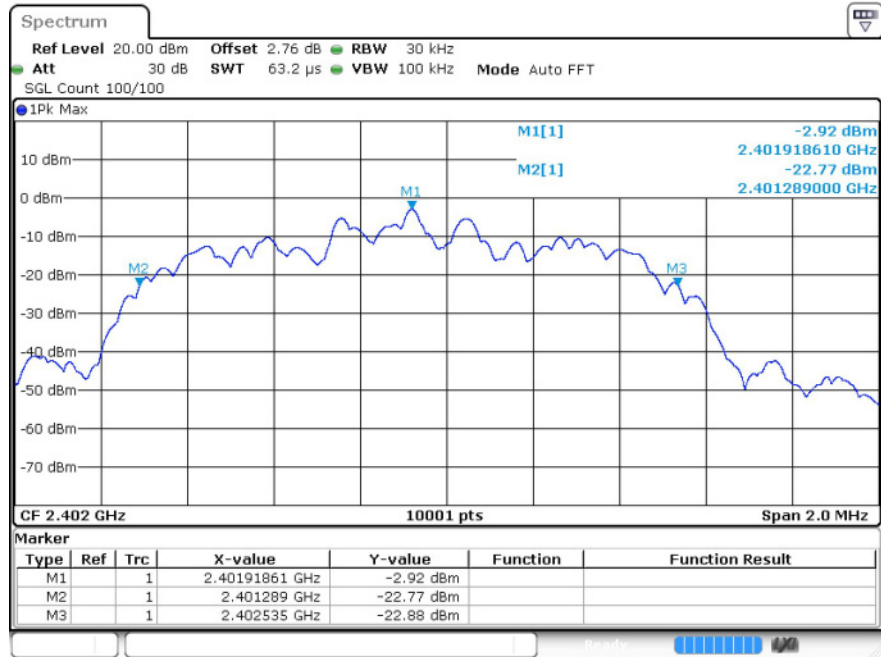
3.1 Test Result

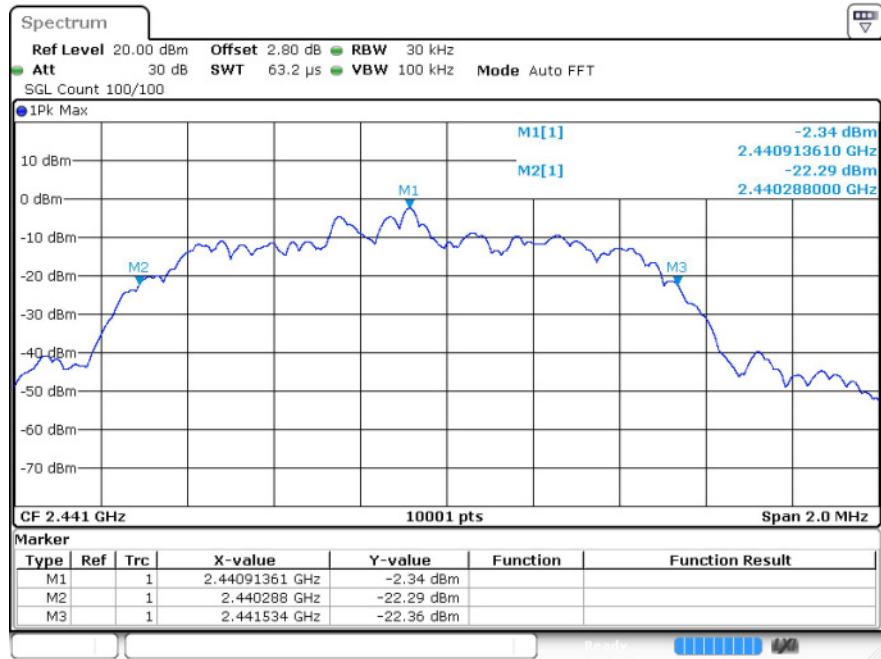
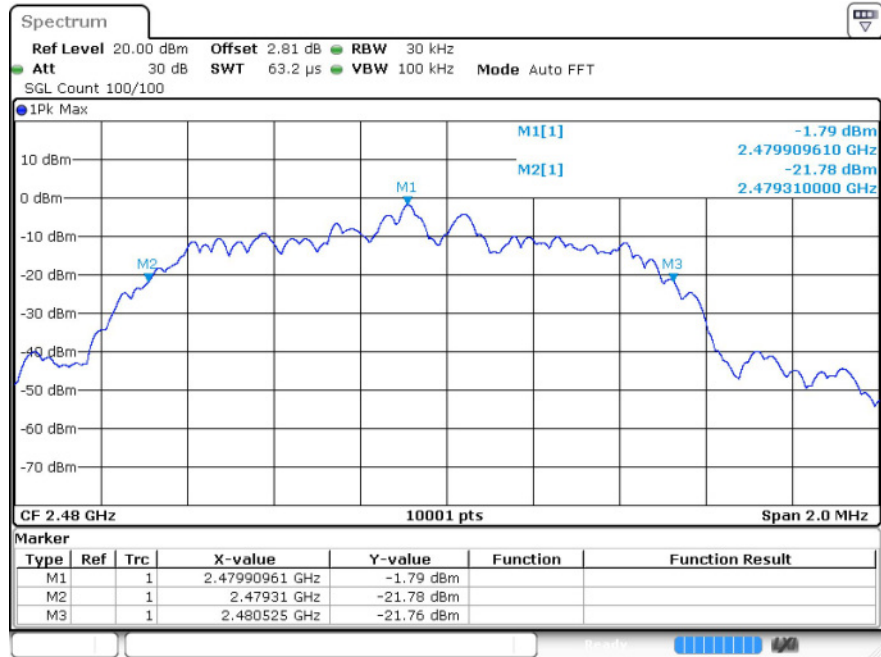
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.918	Not Specified	Pass
	MCH	0.848	Not Specified	Pass
	HCH	0.755	Not Specified	Pass
$\pi/4$ DQPSK	LCH	1.247	Not Specified	Pass
	MCH	1.246	Not Specified	Pass
	HCH	1.215	Not Specified	Pass
8DPSK	LCH	1.205	Not Specified	Pass
	MCH	1.202	Not Specified	Pass
	HCH	1.211	Not Specified	Pass

3.2 Test Graphs



GFSK/HCH

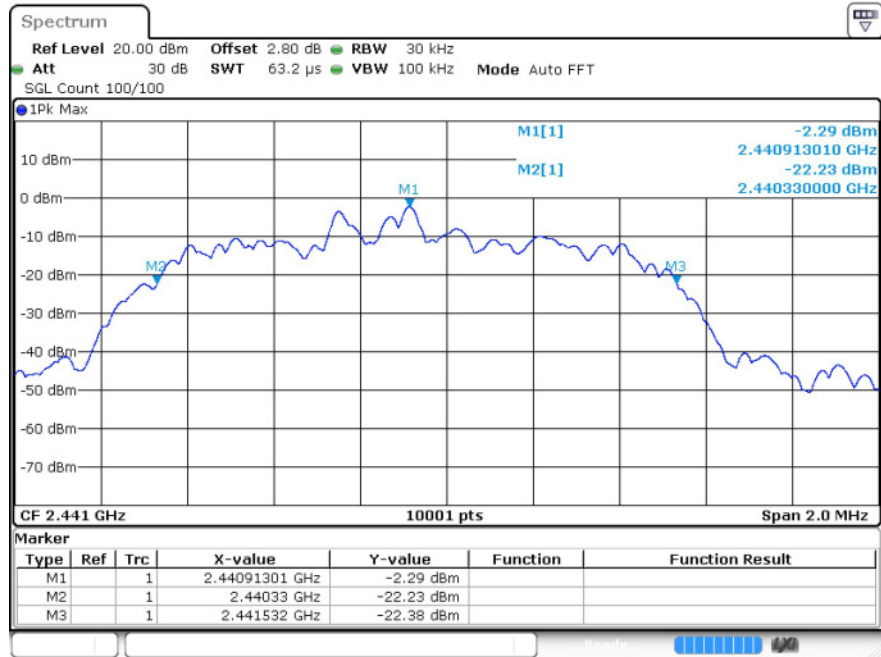

 $\pi/4$ DQPSK/LCH


$\pi/4$ DQPSK/MCH

 $\pi/4$ DQPSK/HCH


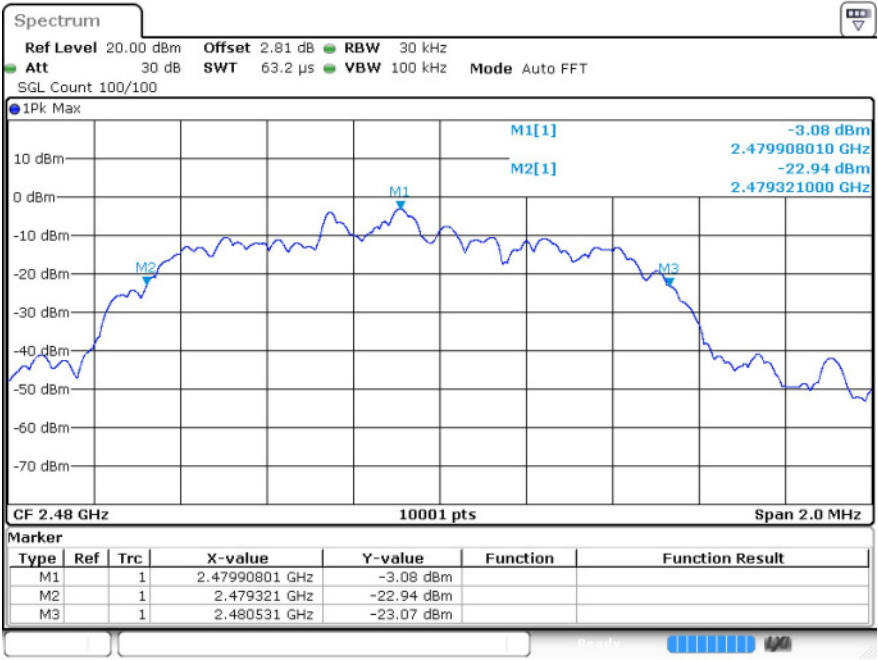
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

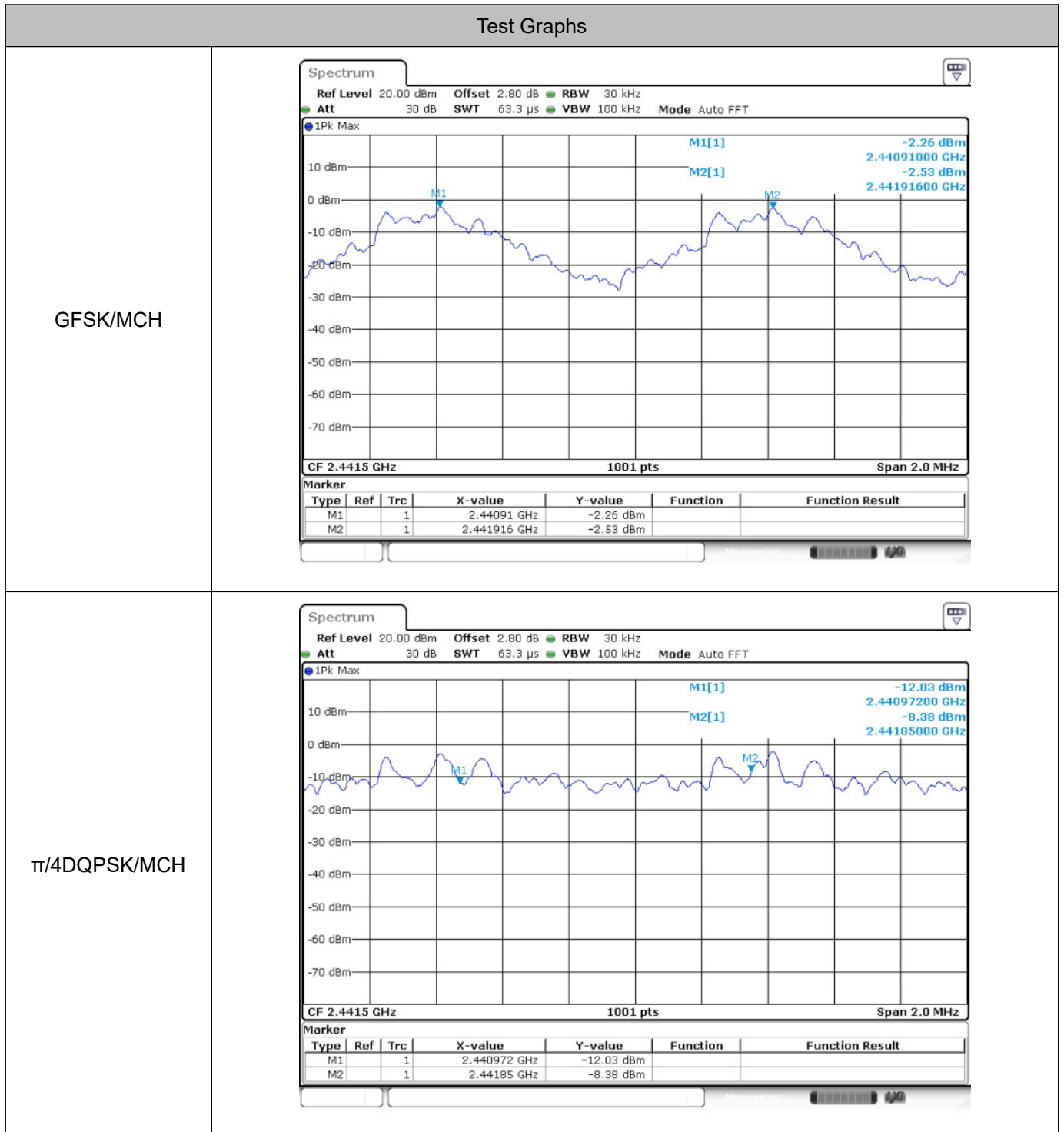


4 Carrier Frequency Separation

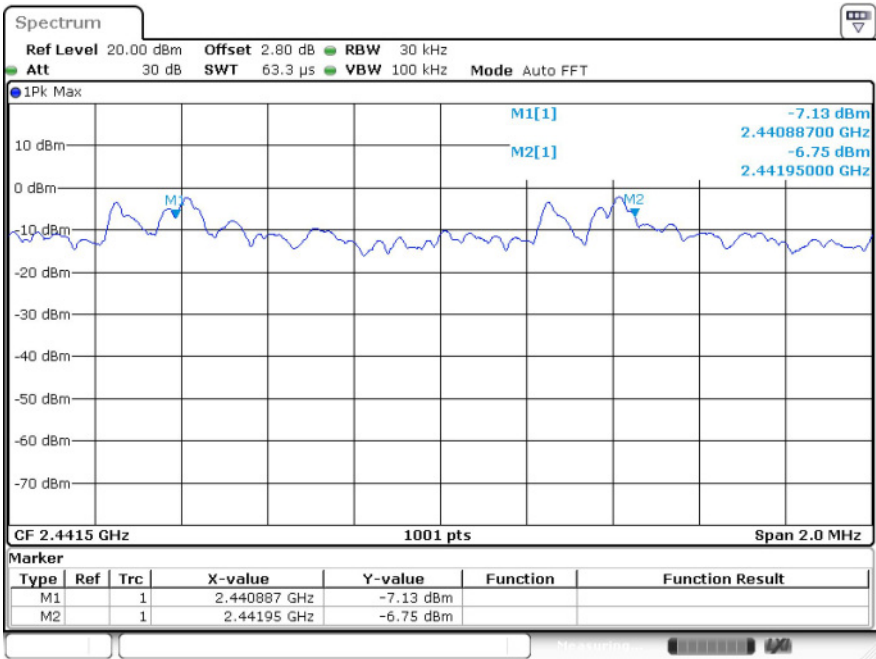
4.1 Test Result

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	1.006	0.565	Pass
$\pi/4$ DQPSK	MCH	0.878	0.831	Pass
8DPSK	MCH	1.063	0.801	Pass

4.2 Test Graphs



8DPSK/MCH

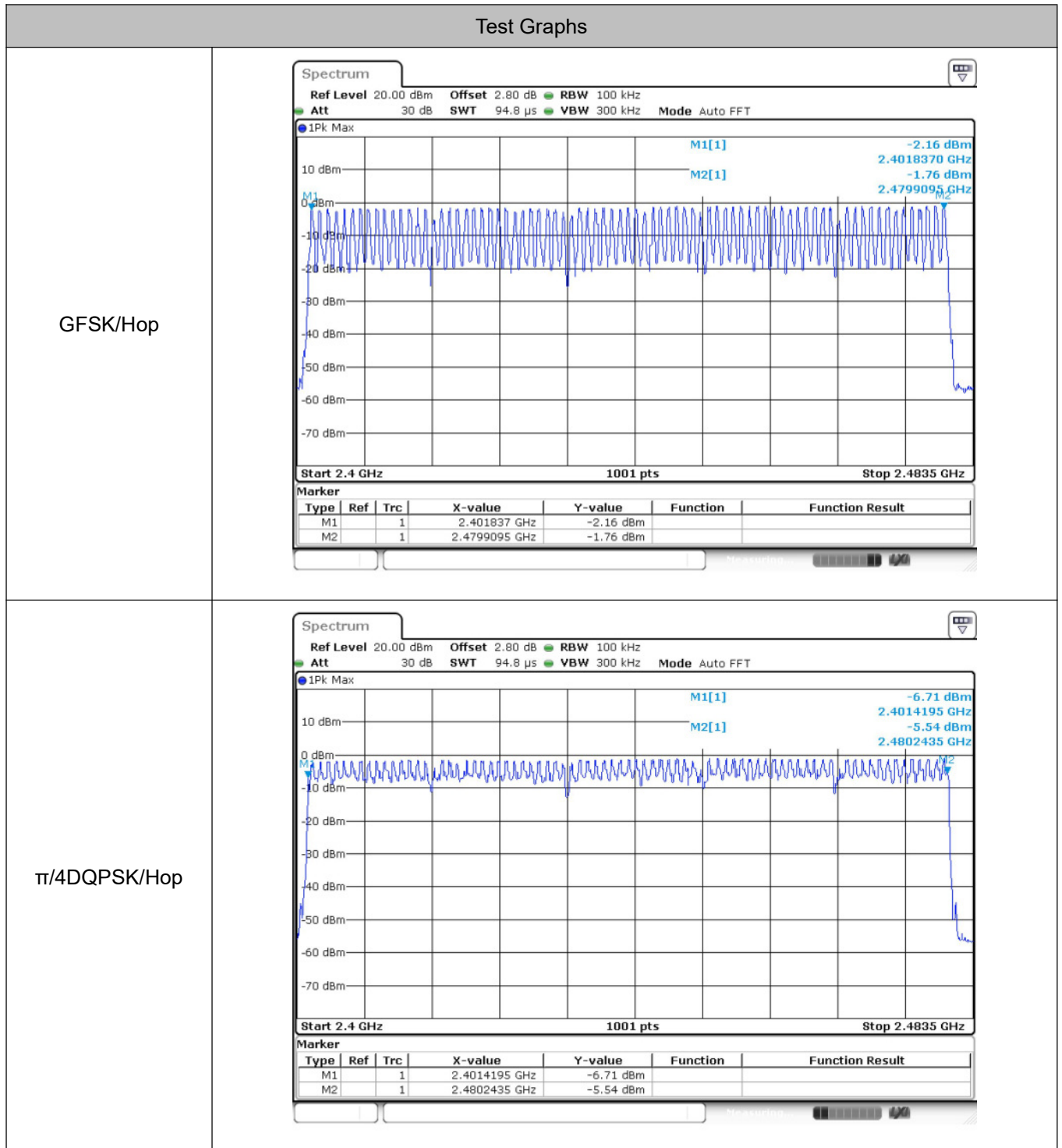


5 Hopping Channel Number

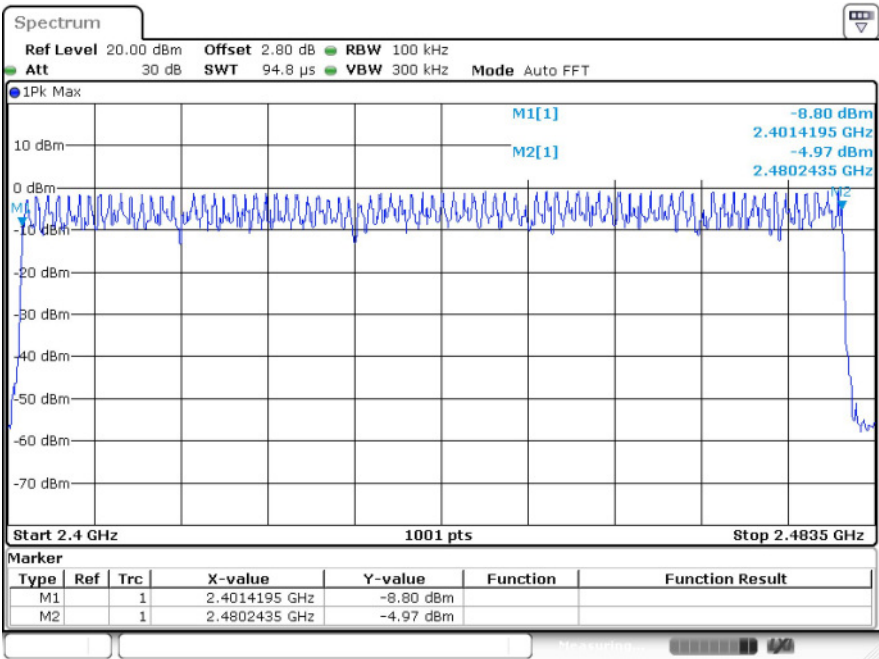
5.1 Test Result

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



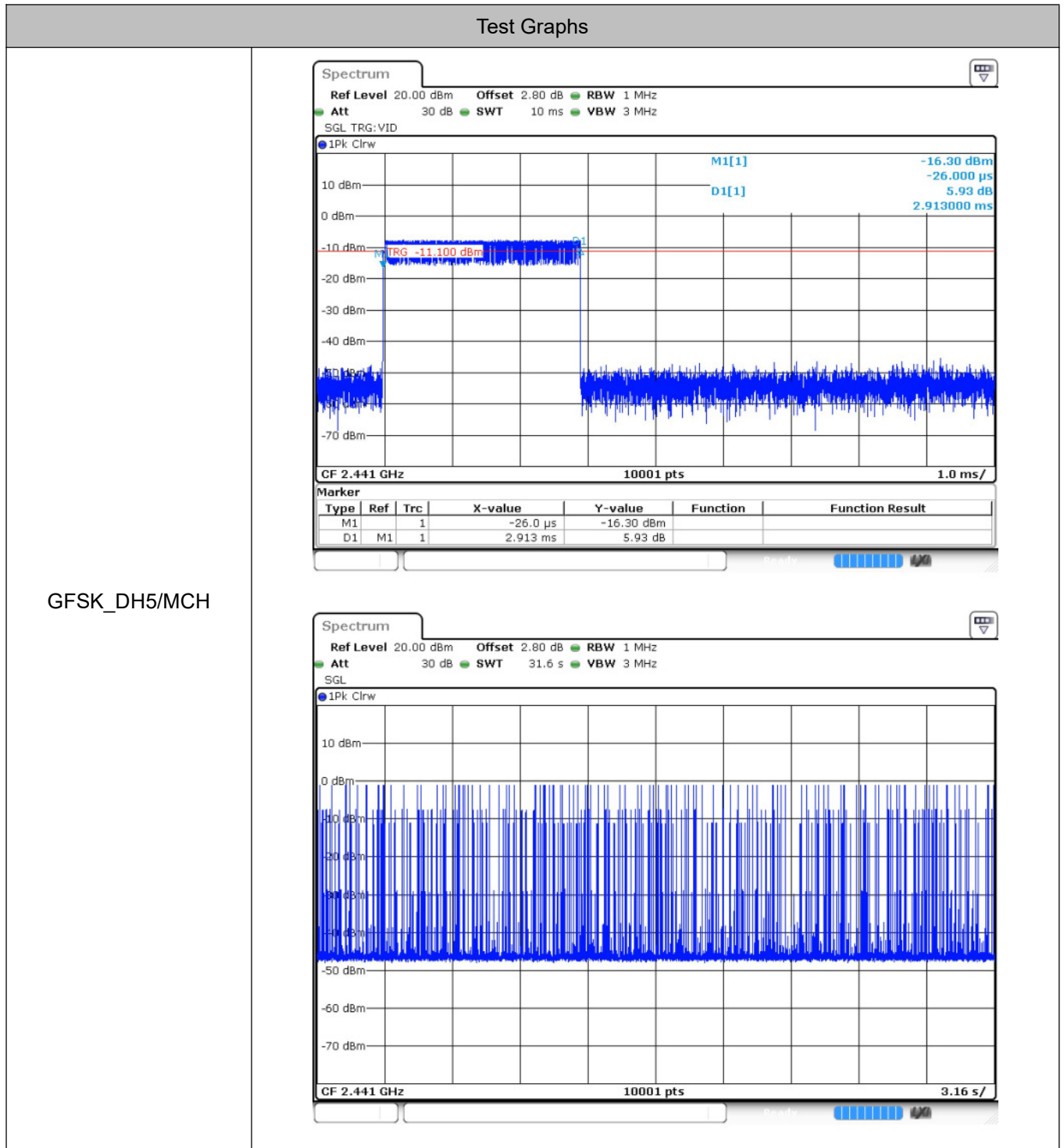


6 Dwell Time

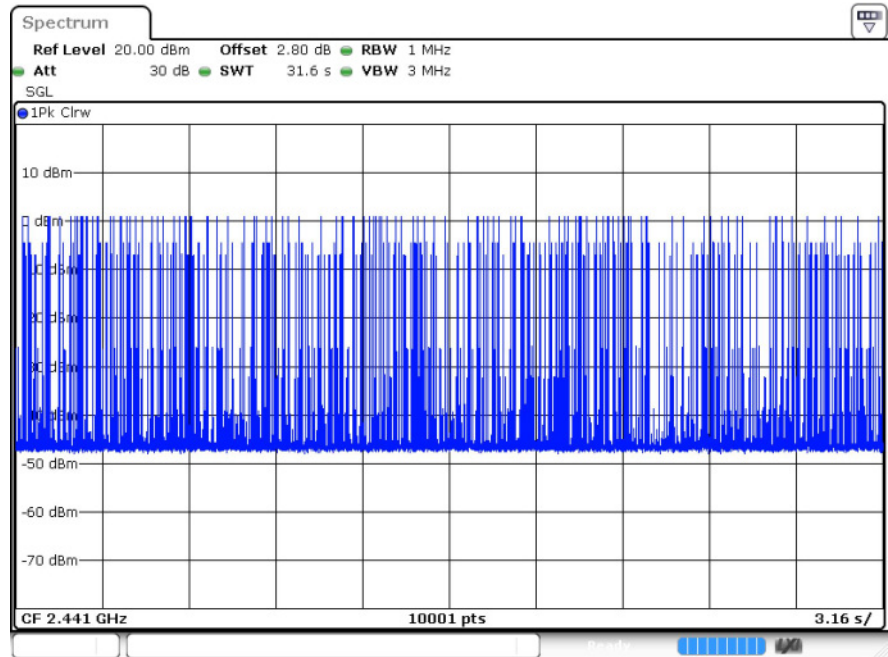
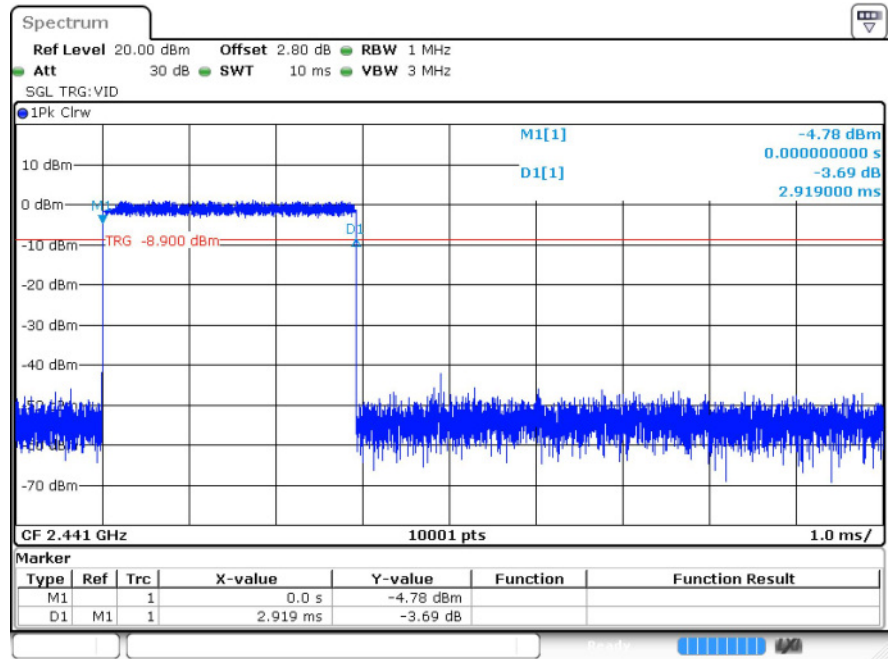
6.1 Test Result

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Limit [s]	Verdict
GFSK	DH5	MCH	2.913	111	323.343	0.4	Pass
$\pi/4$ DQPSK	2DH5	MCH	2.919	111	324.009	0.4	Pass
8DPSK	3DH5	MCH	2.922	118	344.796	0.4	Pass

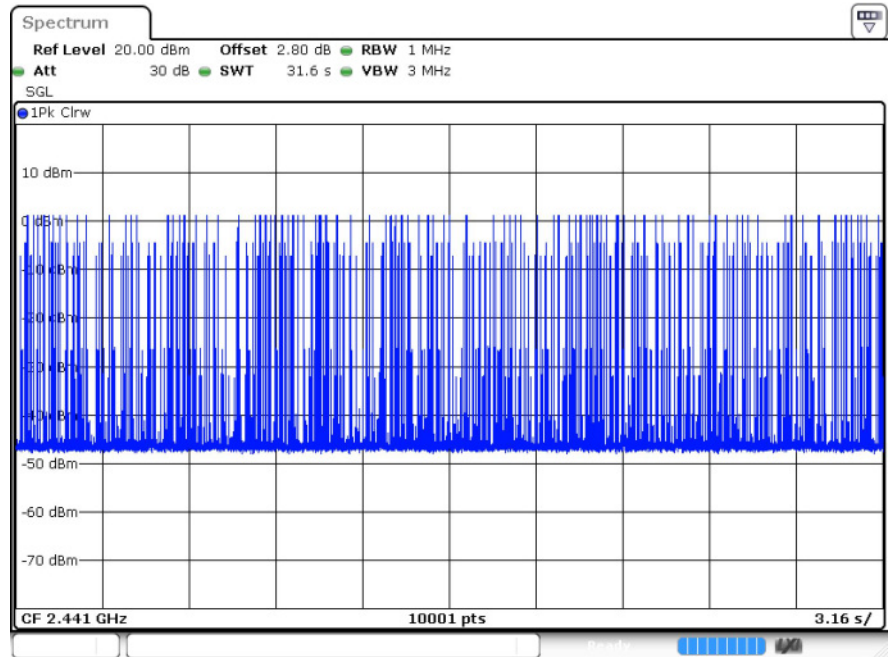
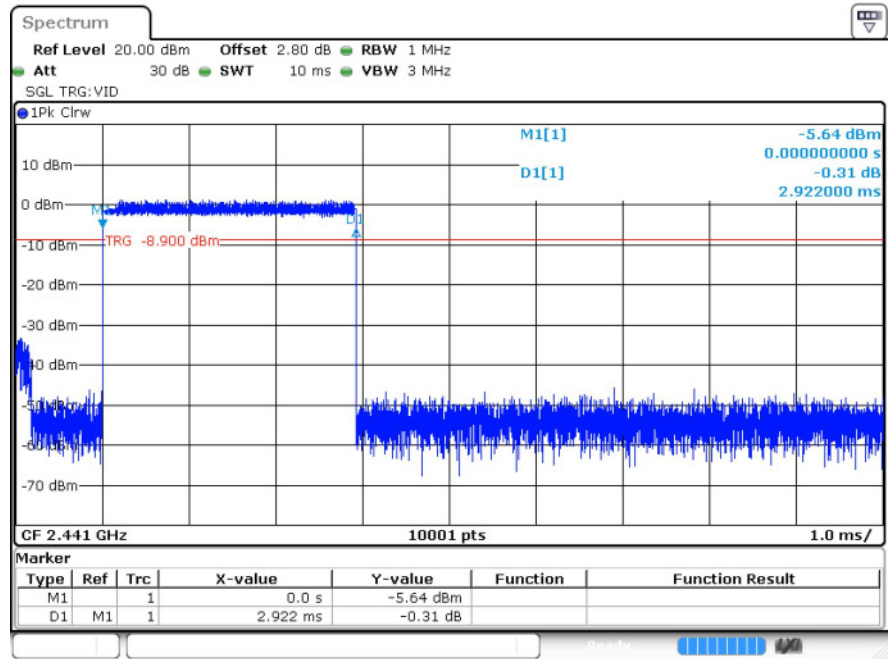
6.2 Test Graphs



$\pi/4$ DQPSK
_2DH5/MCH



8DPSK_3DH5/MCH



7 RF Conducted Spurious Emissions

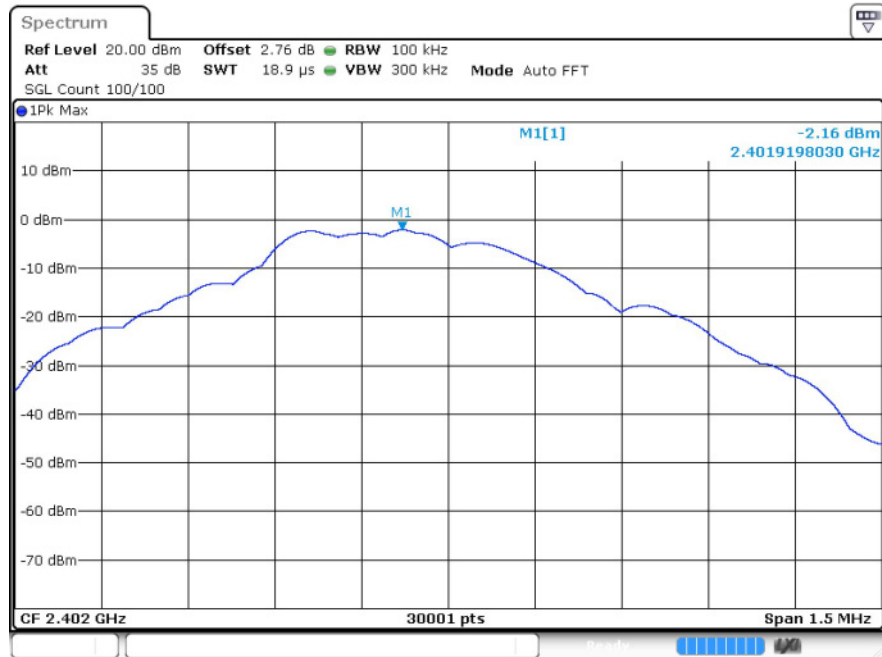
7.1 Test Result

Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-35.31	-20	Pass
	MCH	-35.16	-20	Pass
	HCH	-34.07	-20	Pass
$\pi/4$ DQPSK	LCH	-33.75	-20	Pass
	MCH	-39.41	-20	Pass
	HCH	-33.71	-20	Pass
8DPSK	LCH	-37.94	-20	Pass
	MCH	-33.37	-20	Pass
	HCH	-34.09	-20	Pass

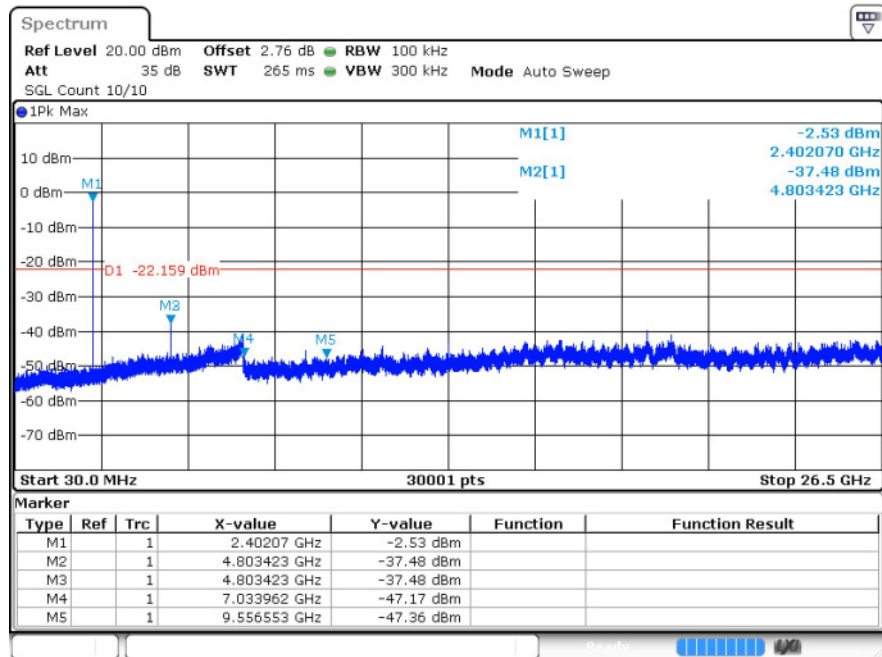
7.2 Test Graphs

GFSK_LCH_Graphs

Pref

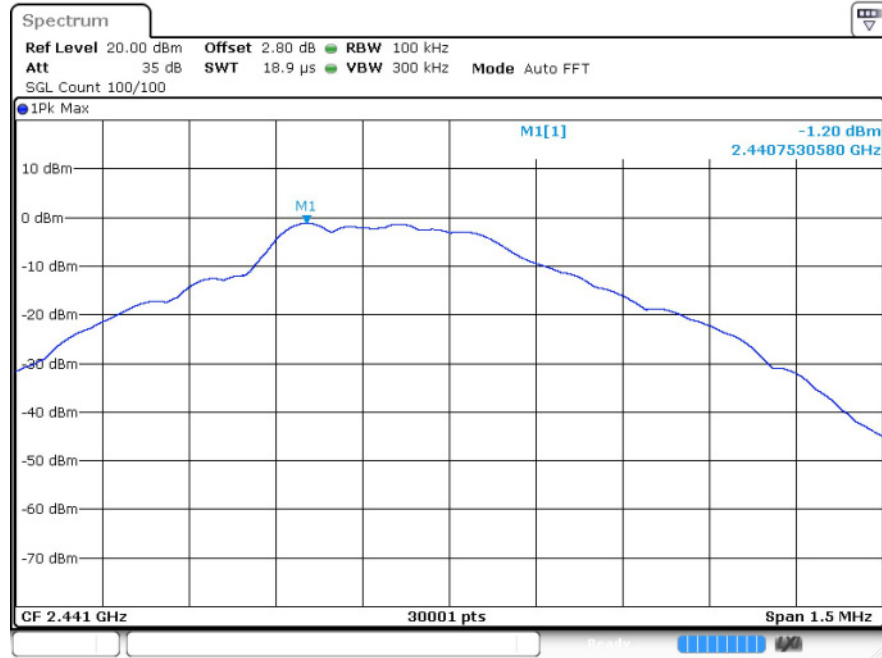


Puw

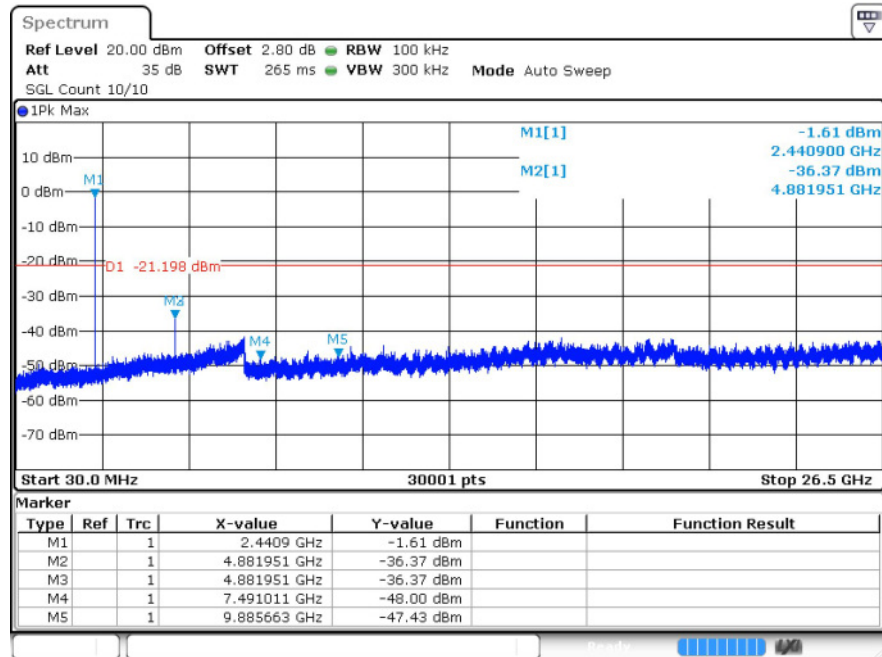


GFSK_MCH_Graphs

Pref

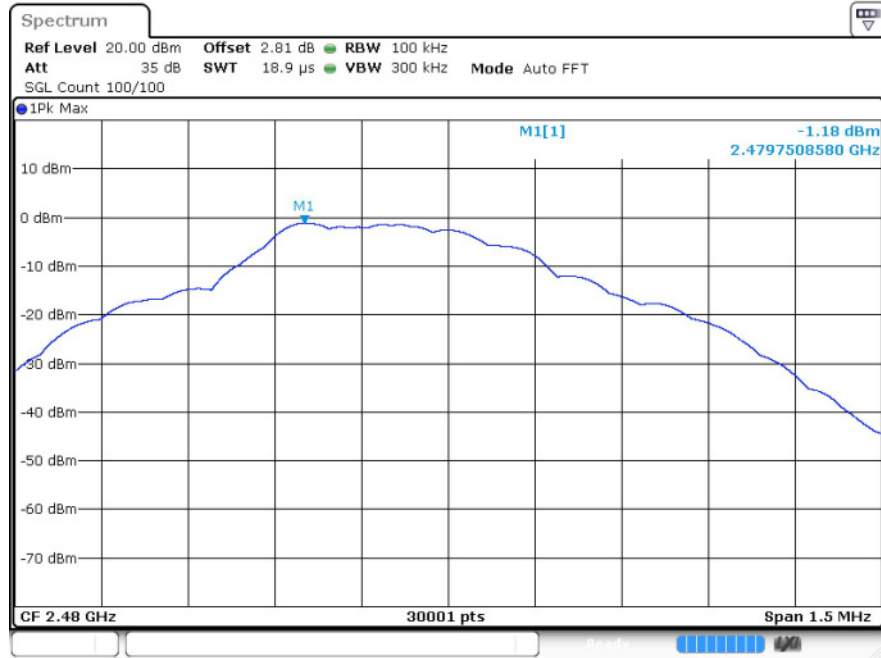


Puw

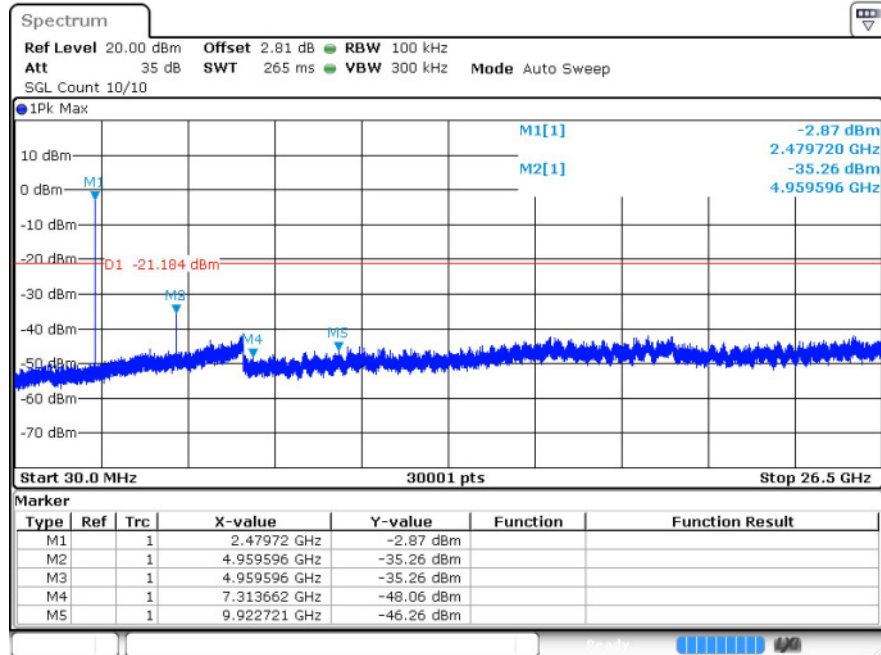


GFSK_HCH_Graphs

Pref

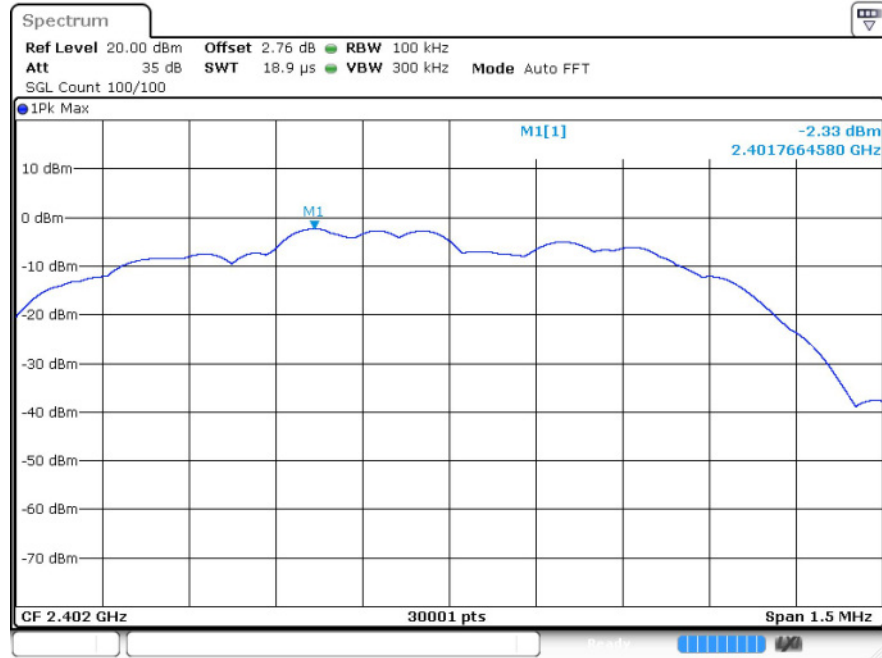


Puw

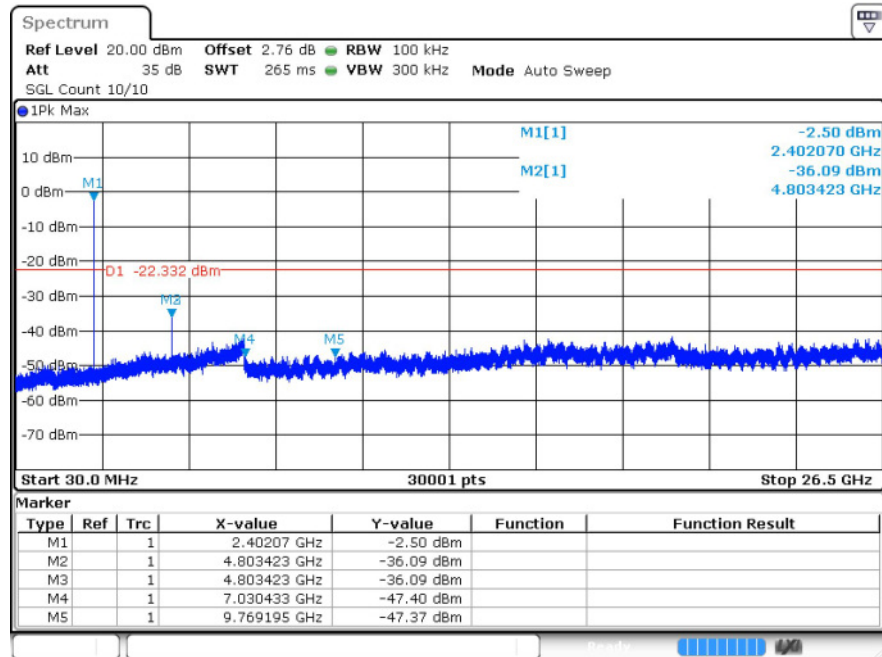


$\pi/4$ DQPSK_LCH_Graphs

Pref

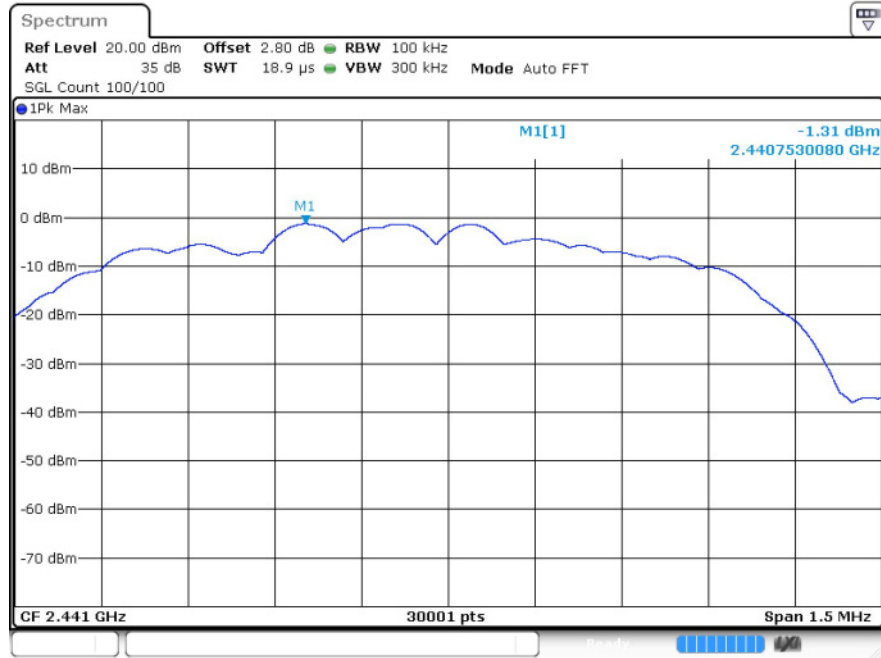


Puw



π /4DQPSK_MCH_Graphs

Pref



Puw

