



Appendix B

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

Product Name: Open Bluetooth headset

Trade Mark: N/A

Test Model: SP9i

Environmental Conditions

Temperature:	24.4℃
Relative Humidity:	52.3%
ATM Pressure:	101Kpa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung



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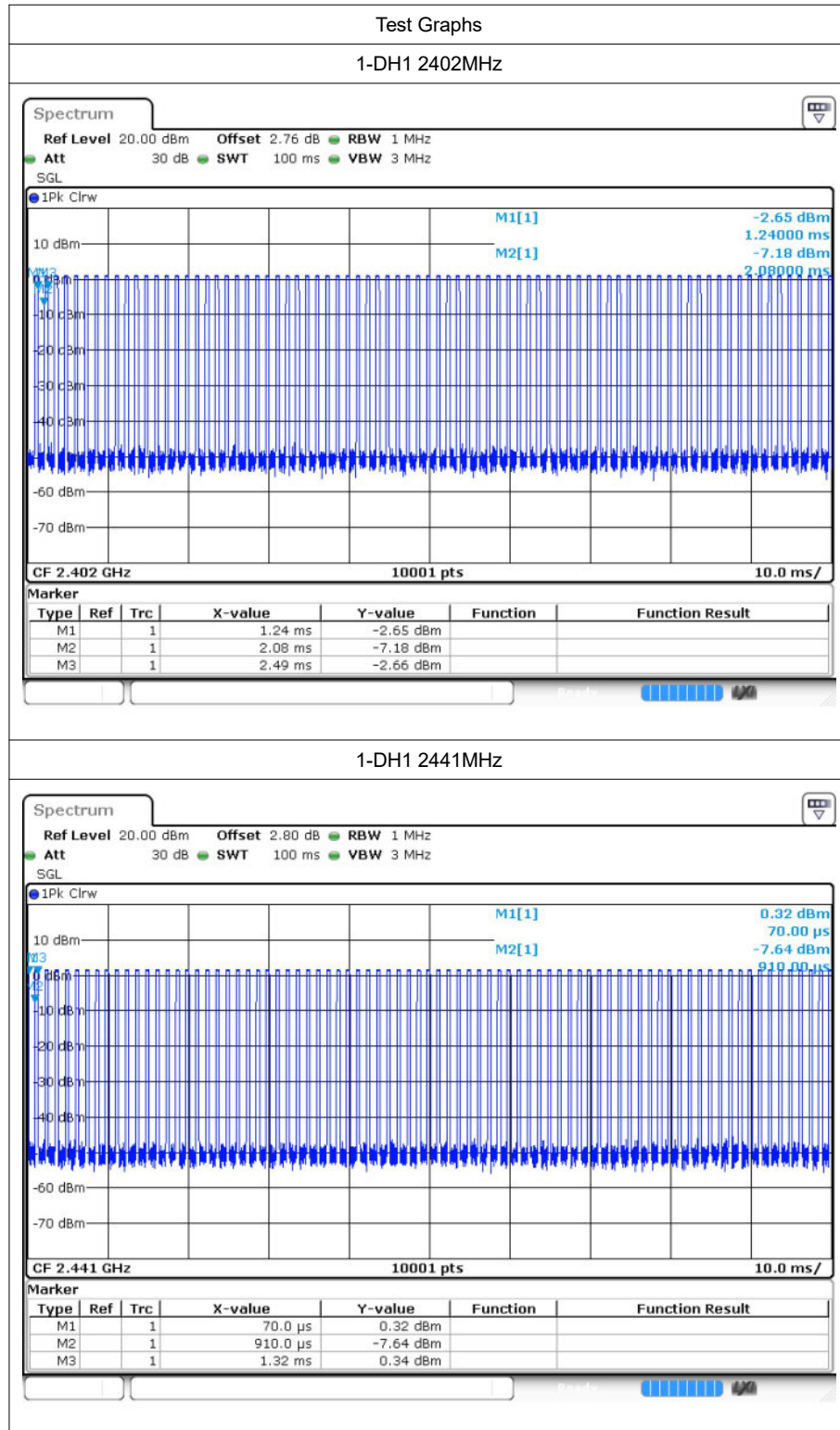
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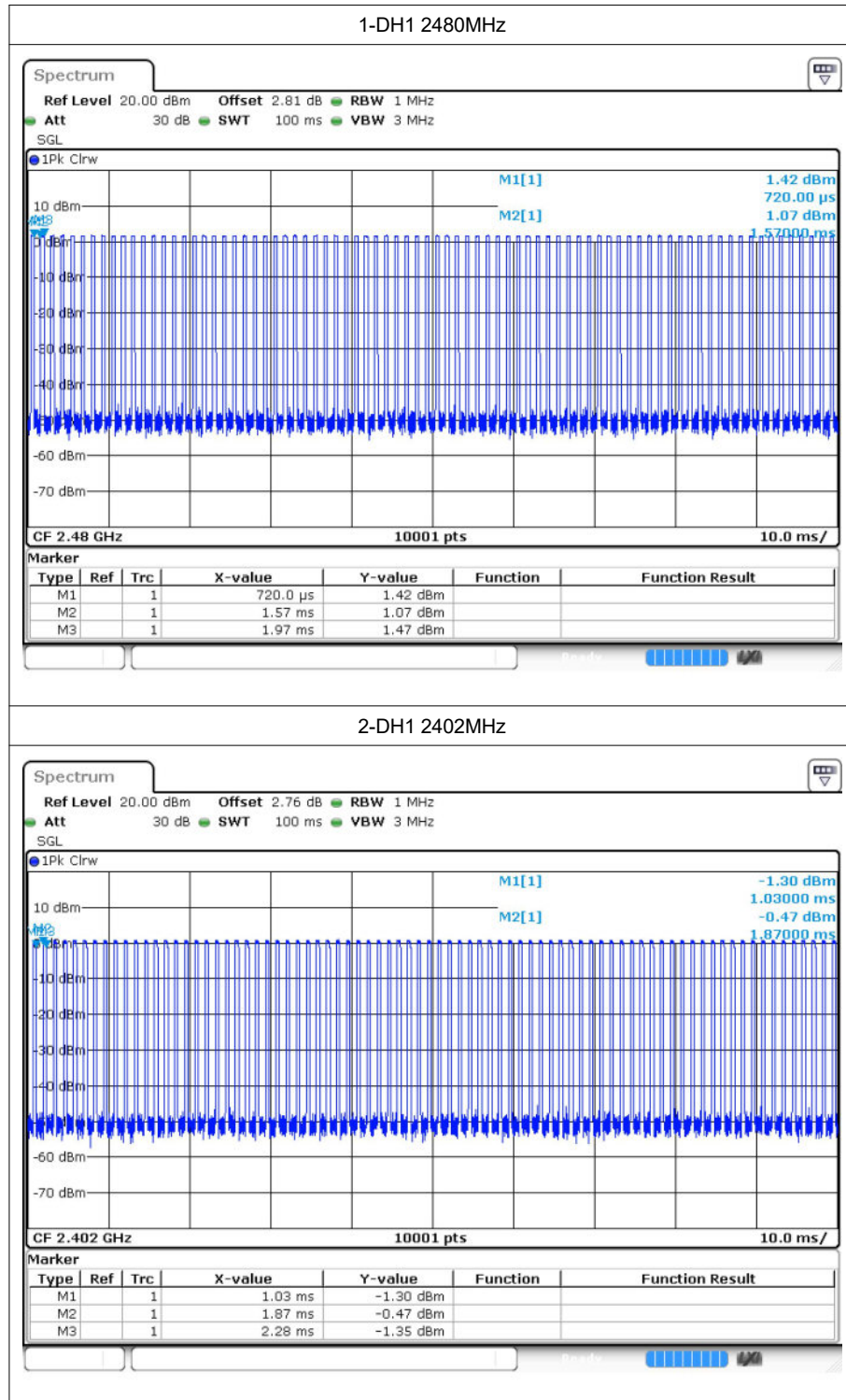
1 Duty Cycle

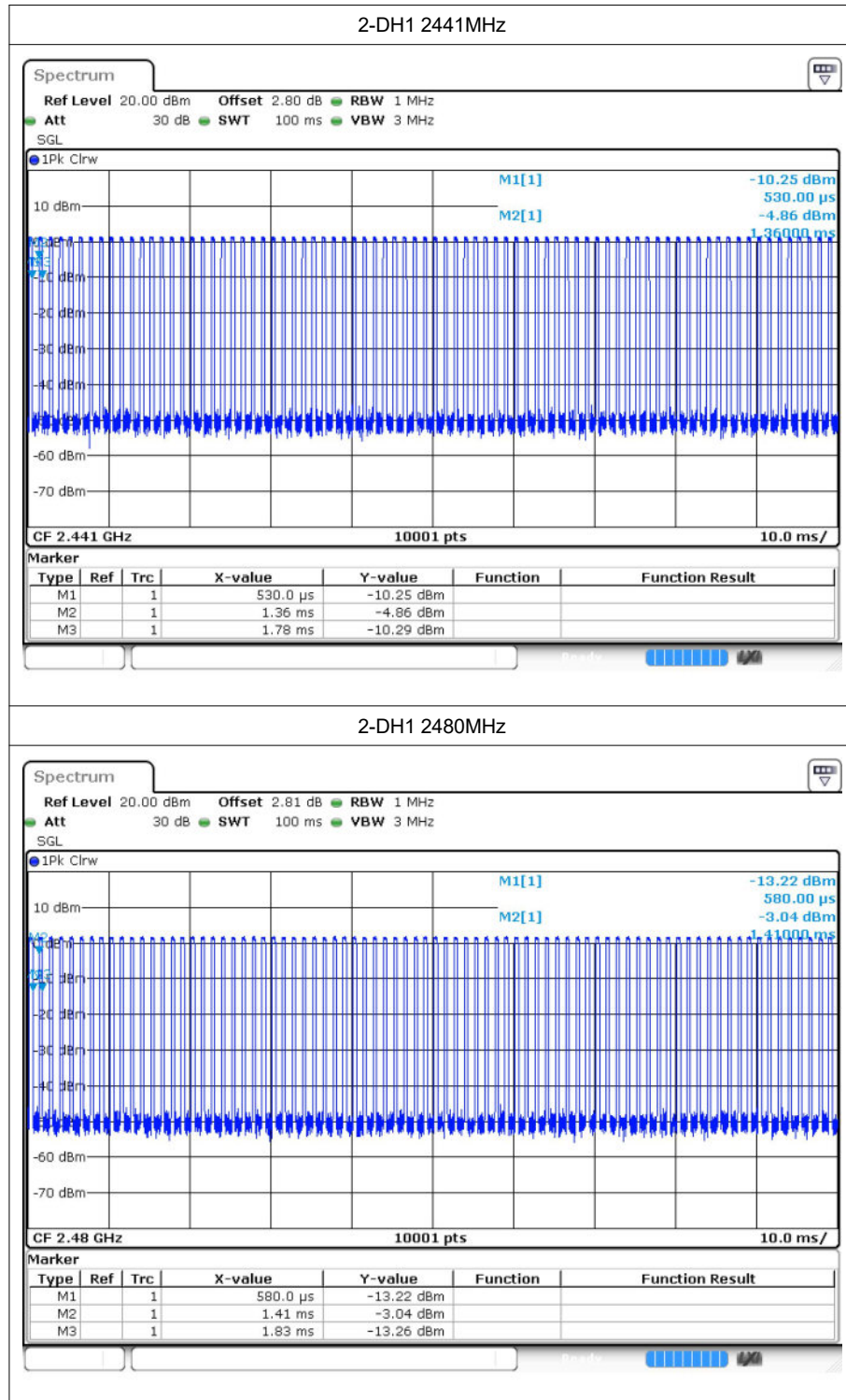
1.1 Test Result

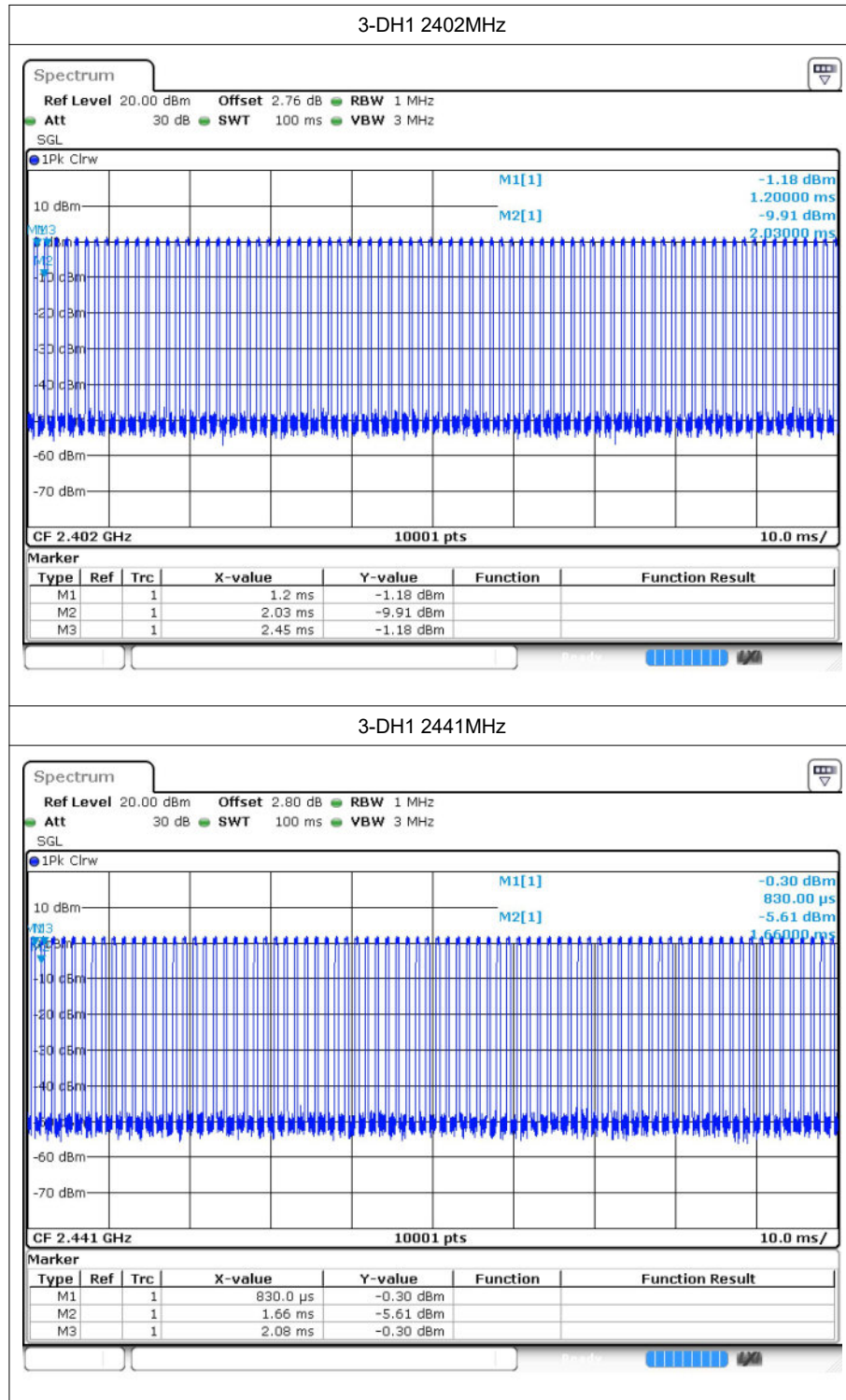
Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor	1/T (kHz)
1-DH1	2402	33.6	4.74	2.44
1-DH1	2441	33.61	4.74	2.44
1-DH1	2480	32.8	4.84	2.5
2-DH1	2402	33.6	4.74	2.44
2-DH1	2441	34.4	4.63	2.38
2-DH1	2480	34.4	4.63	2.38
3-DH1	2402	34.4	4.63	2.38
3-DH1	2441	34.4	4.63	2.38
3-DH1	2480	34.4	4.63	2.38

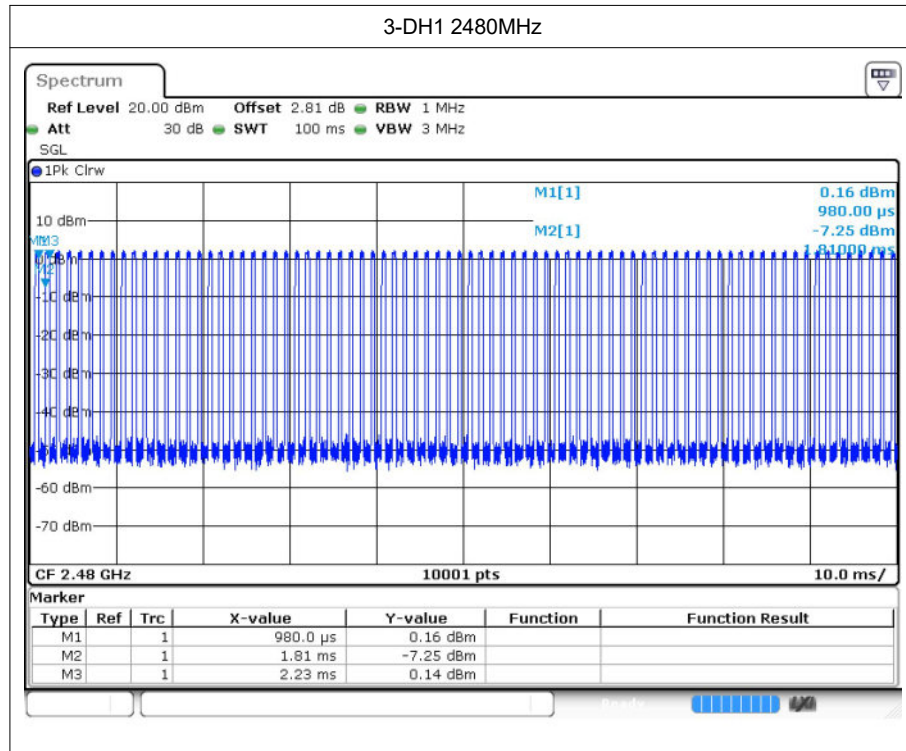
1.2 Test Graphs









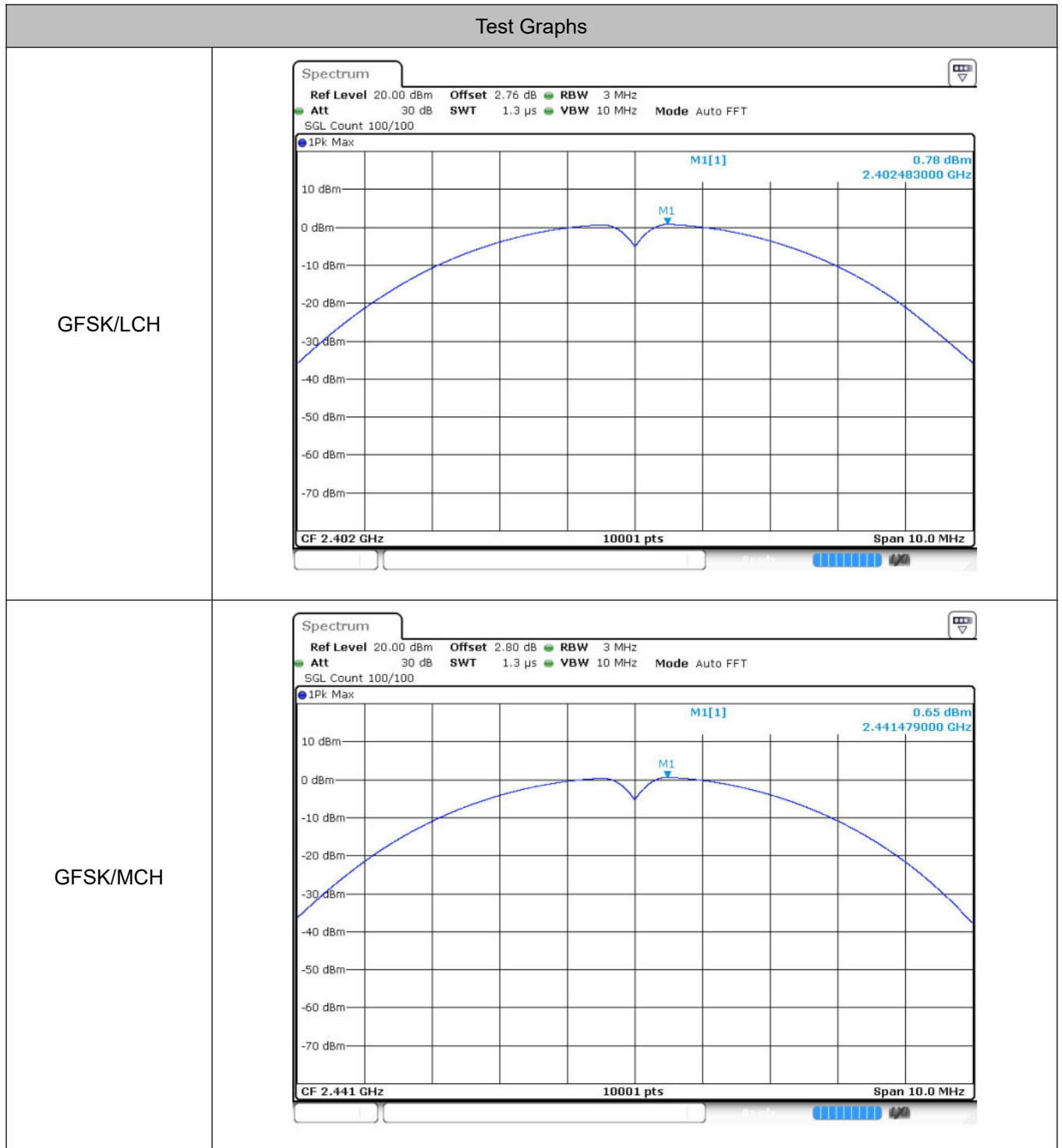


2 Maximum Conducted Peak Output Power

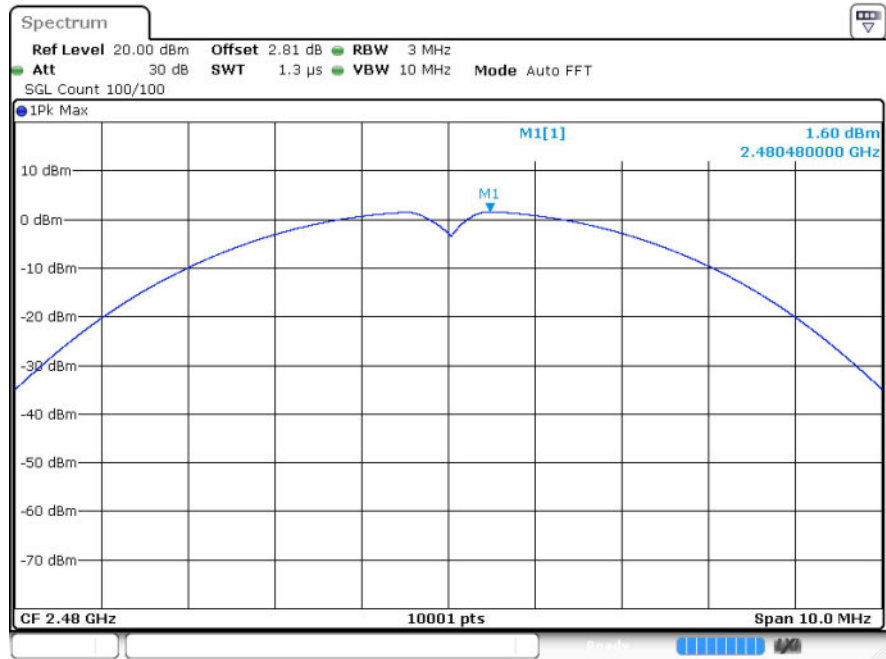
2.1 Test Result

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	0.78	21	Pass
	MCH	0.65	21	Pass
	HCH	1.6	21	Pass
$\pi/4$ DQPSK	LCH	0.67	21	Pass
	MCH	1.42	21	Pass
	HCH	1.53	21	Pass
8DPSK	LCH	1.53	21	Pass
	MCH	1.59	21	Pass
	HCH	1.35	21	Pass

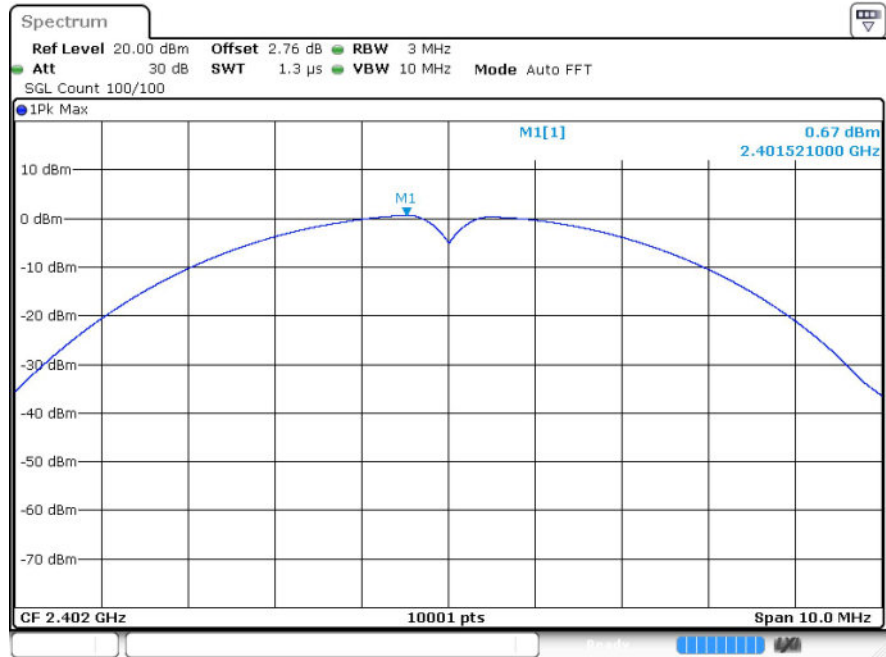
2.2 Test Graphs



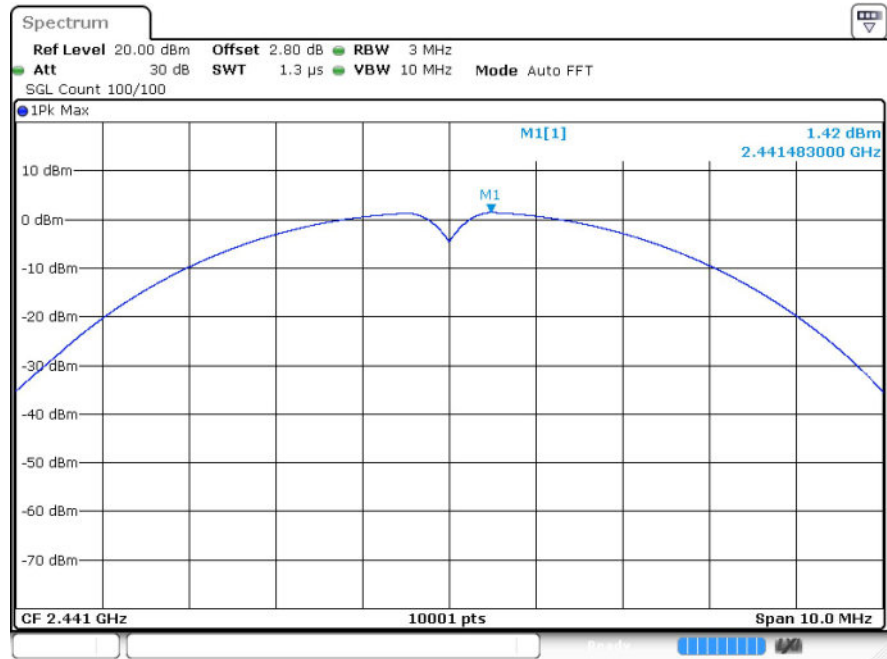
GFSK/HCH



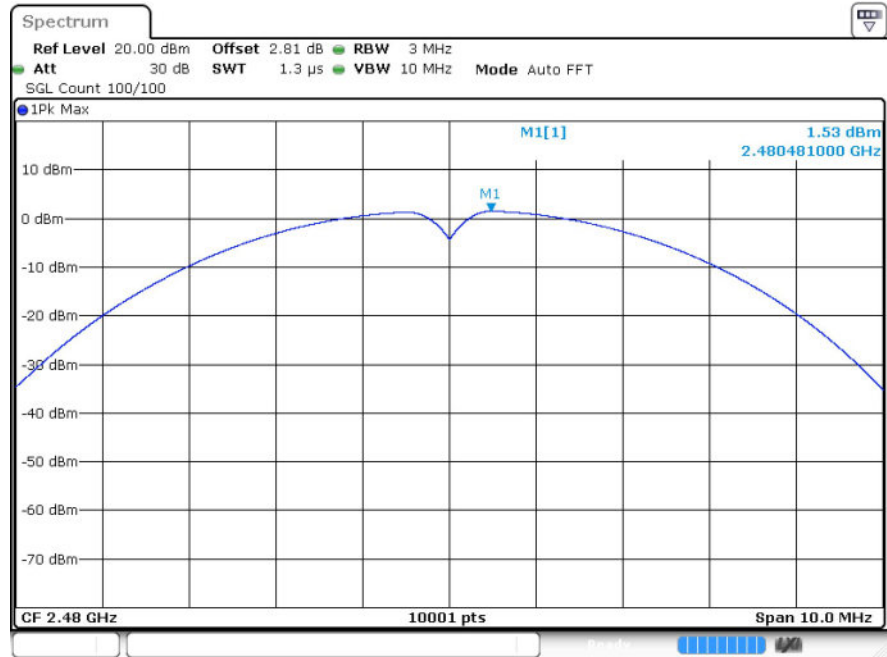
$\pi/4$ DQPSK/LCH



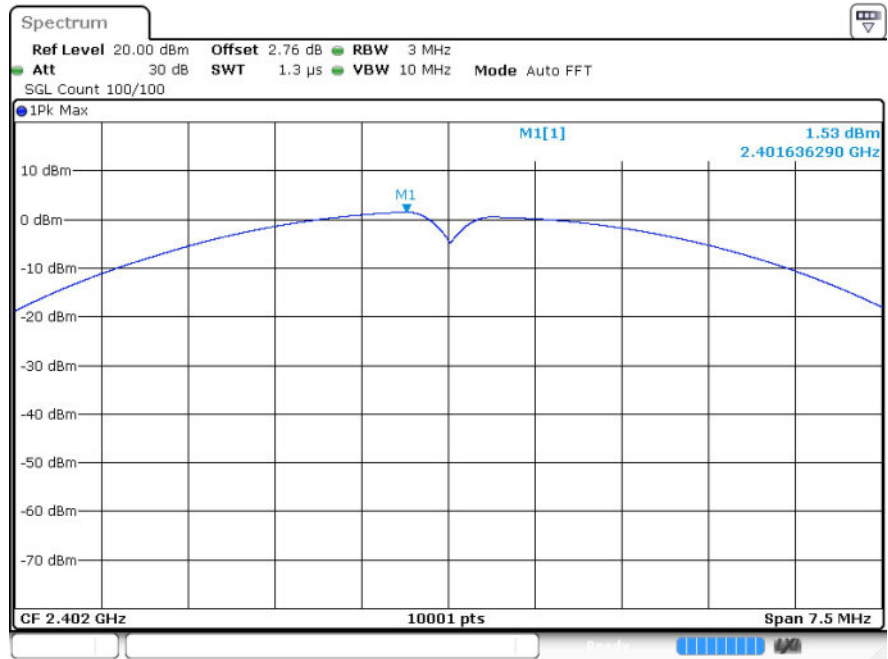
$\pi/4$ DQPSK/MCH



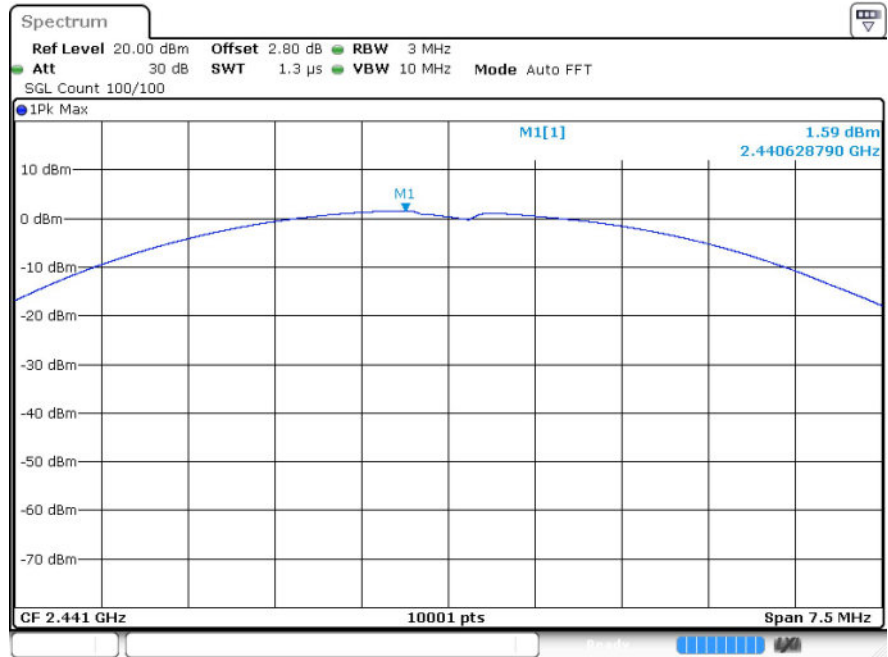
$\pi/4$ DQPSK/HCH



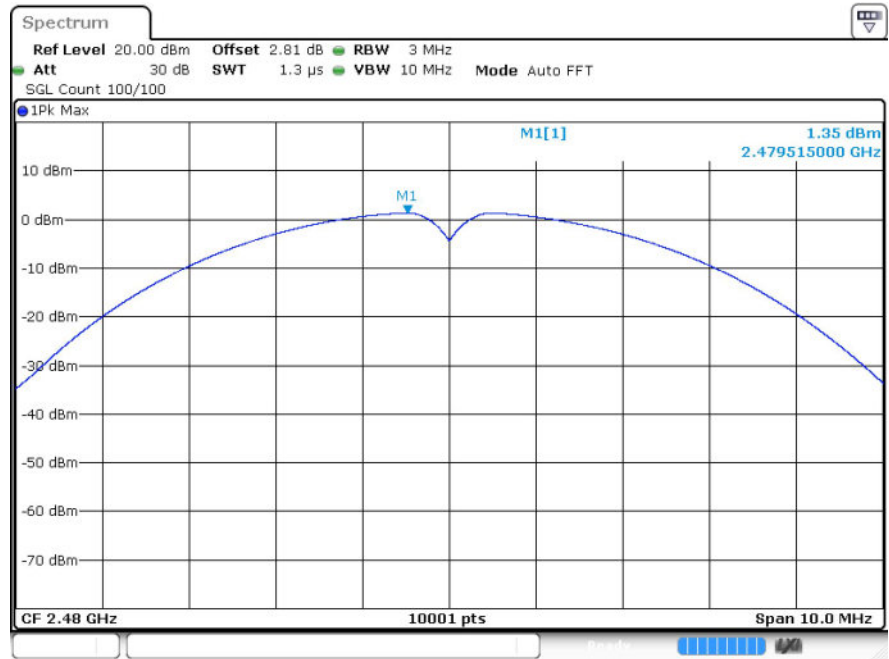
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

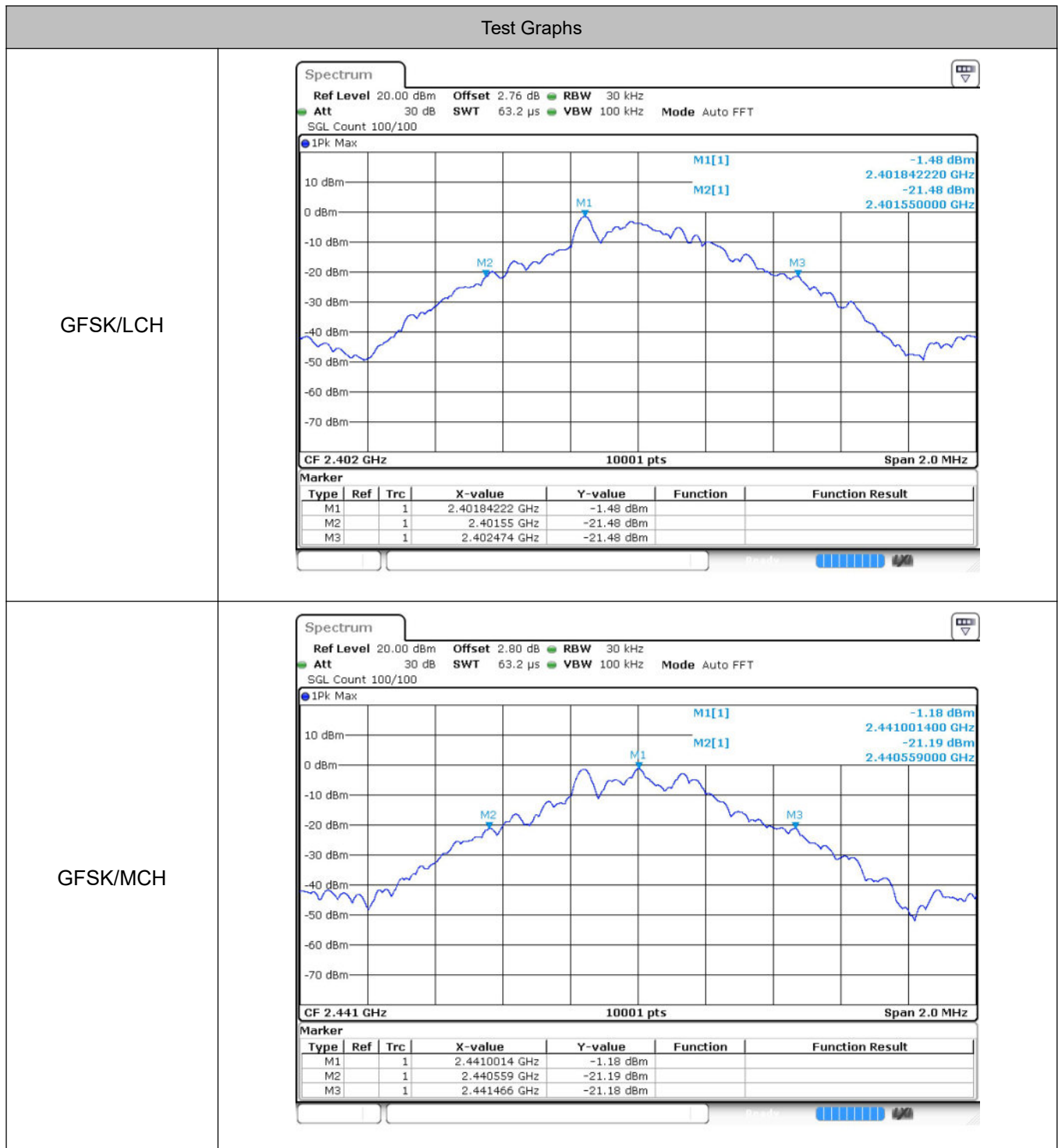


3 20dB Bandwidth

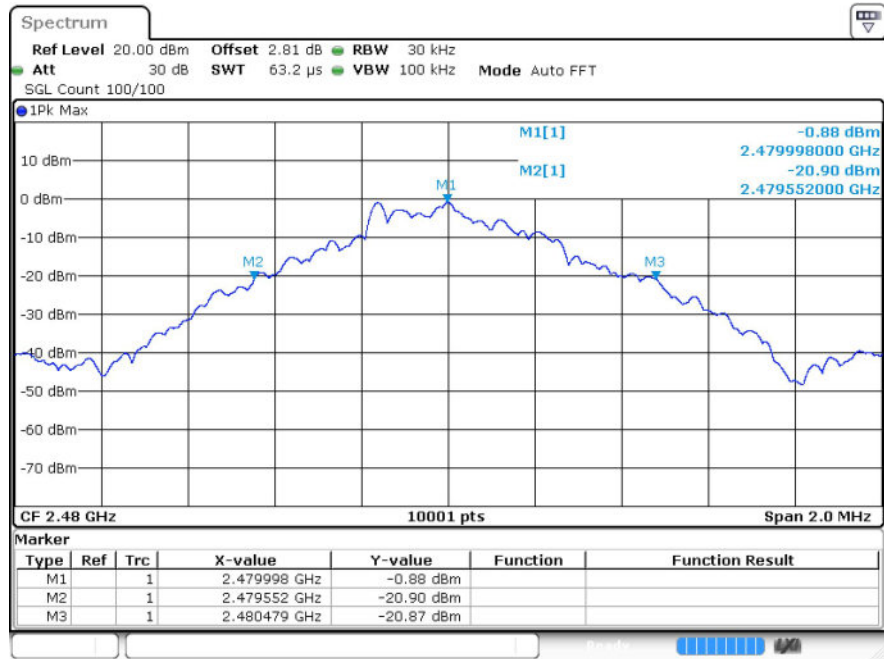
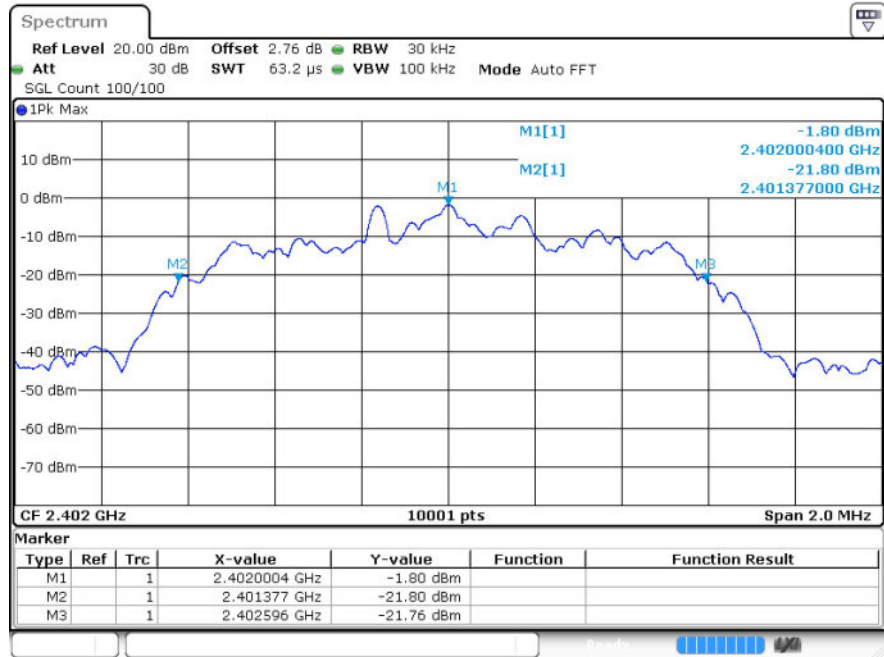
3.1 Test Result

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.924	Not Specified	Pass
	MCH	0.907	Not Specified	Pass
	HCH	0.927	Not Specified	Pass
$\pi/4$ DQPSK	LCH	1.219	Not Specified	Pass
	MCH	1.218	Not Specified	Pass
	HCH	1.213	Not Specified	Pass
8DPSK	LCH	1.198	Not Specified	Pass
	MCH	1.189	Not Specified	Pass
	HCH	1.209	Not Specified	Pass

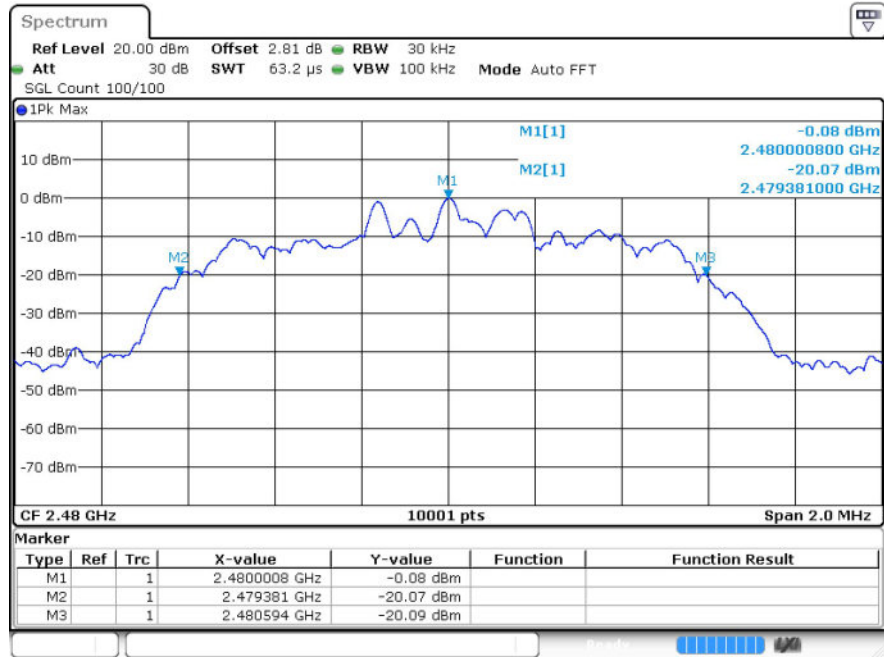
3.2 Test Graphs



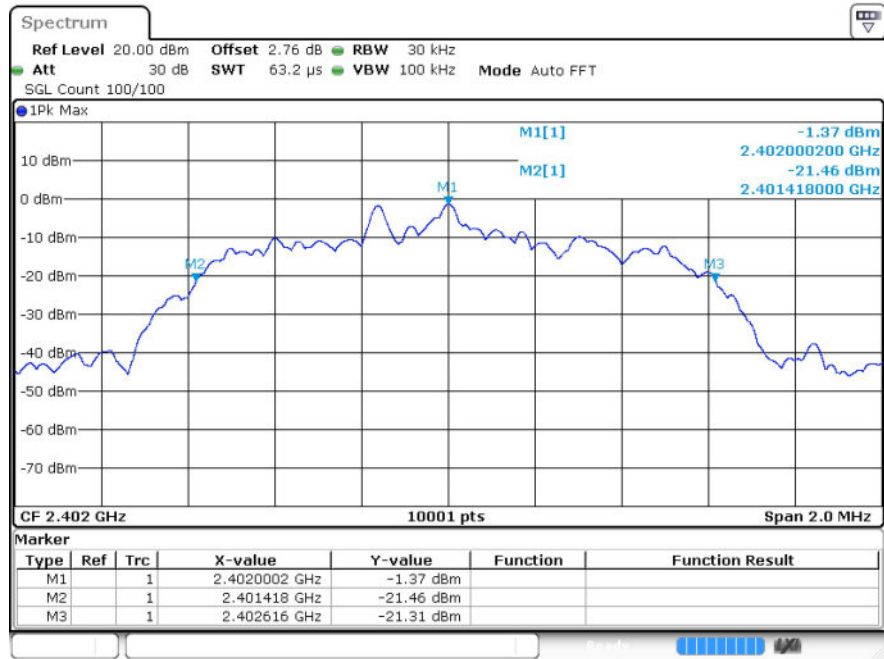
GFSK/HCH


 $\pi/4$ DQPSK/LCH


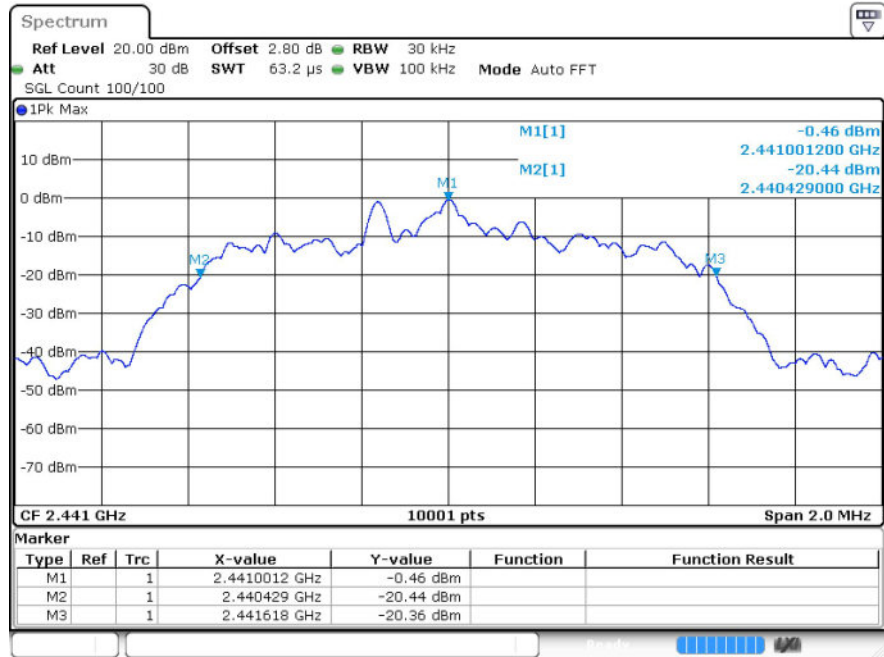
$\pi/4$ DQPSK/MCH

 $\pi/4$ DQPSK/HCH


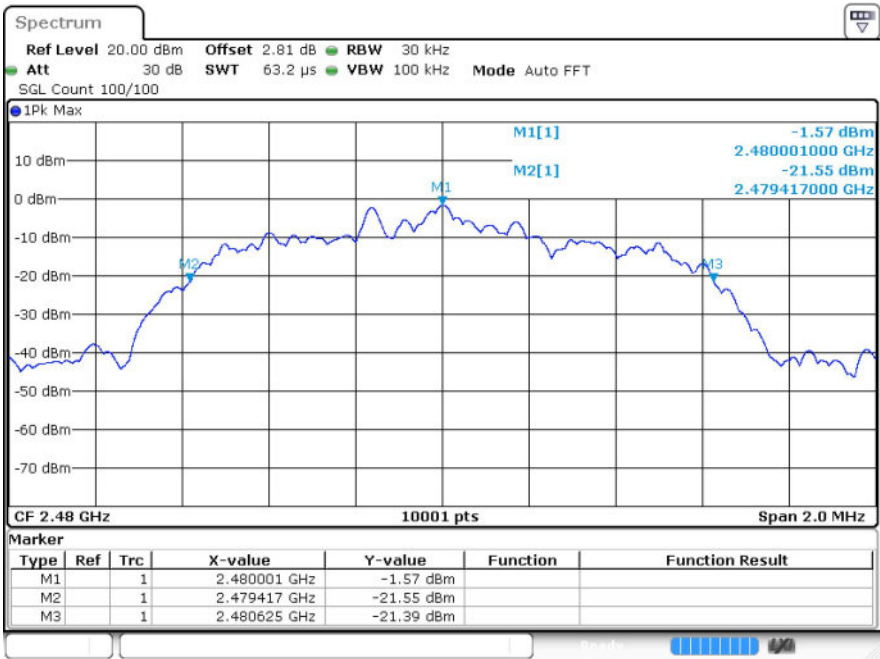
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

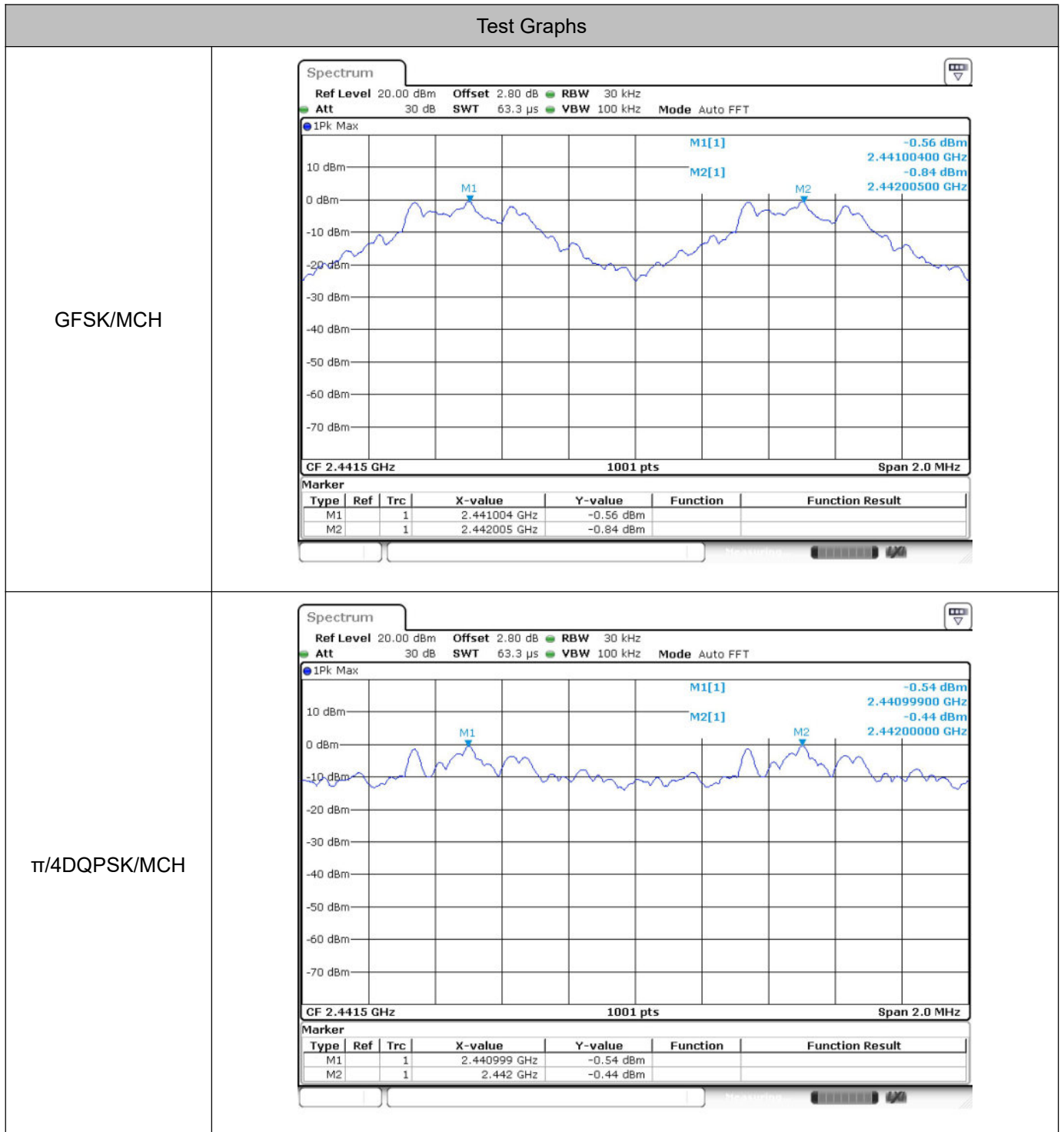


4 Carrier Frequency Separation

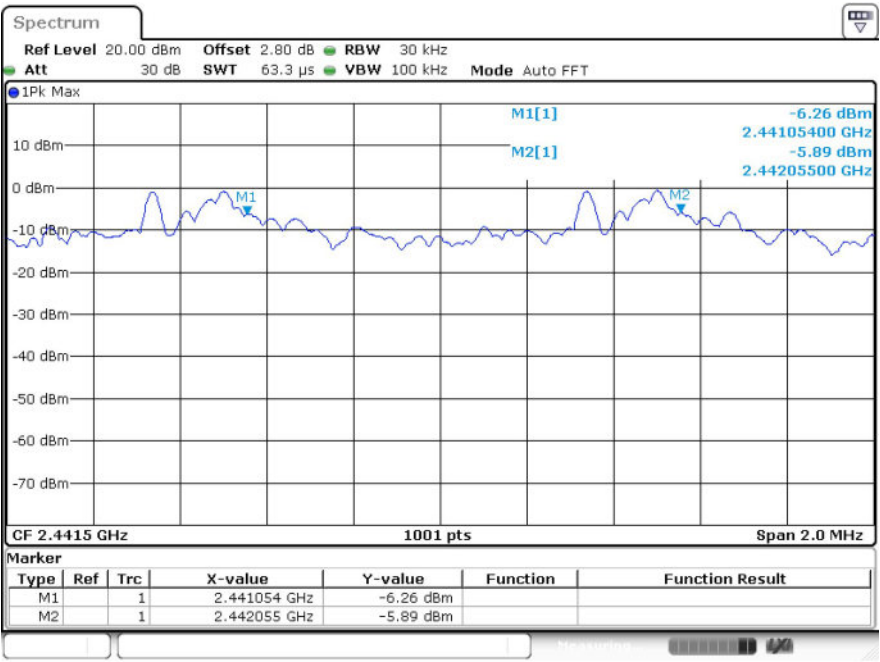
4.1 Test Result

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	1.001	0.605	Pass
$\pi/4$ DQPSK	MCH	1.001	0.812	Pass
8DPSK	MCH	1.001	0.793	Pass

4.2 Test Graphs



8DPSK/MCH

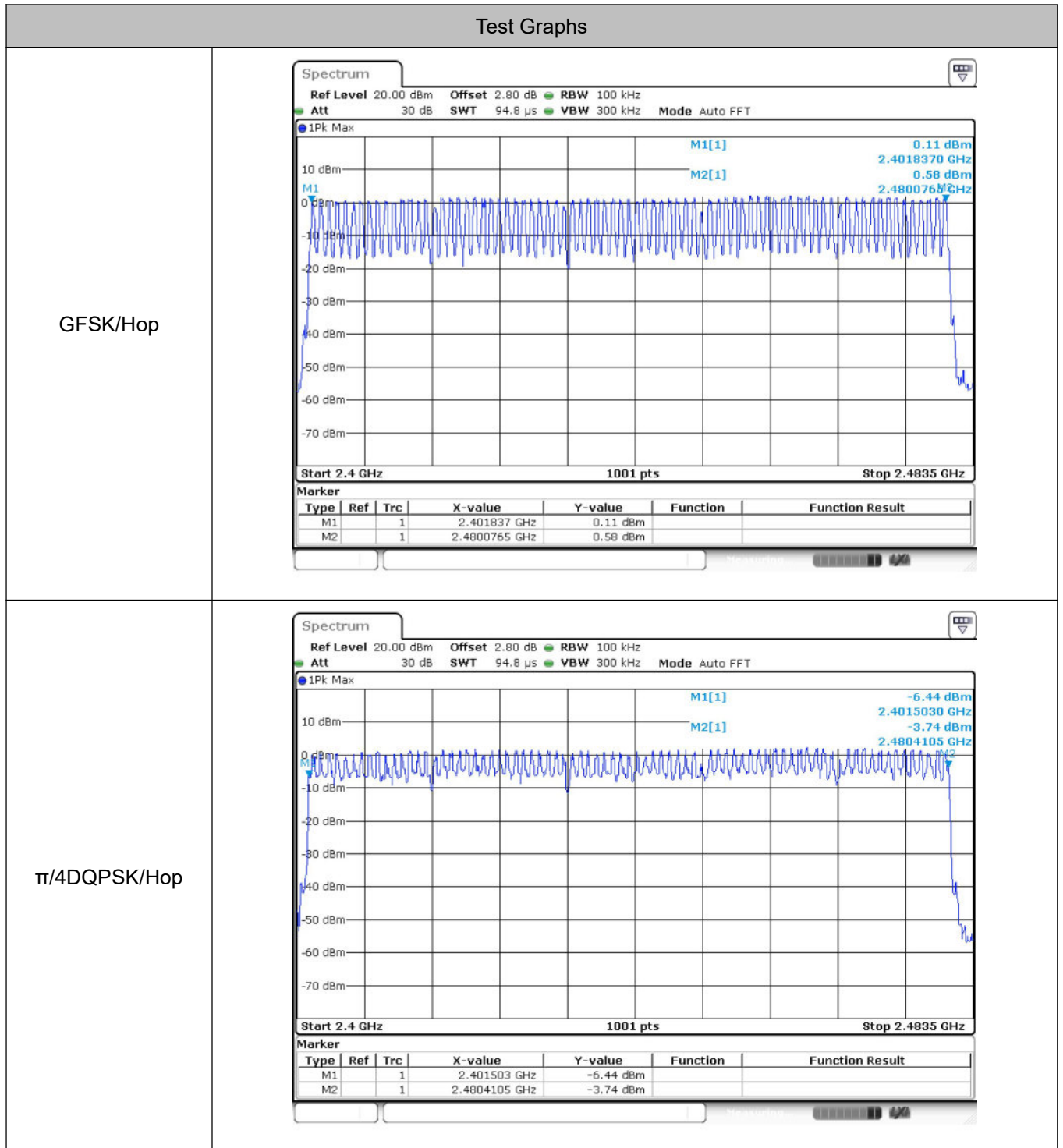


5 Hopping Channel Number

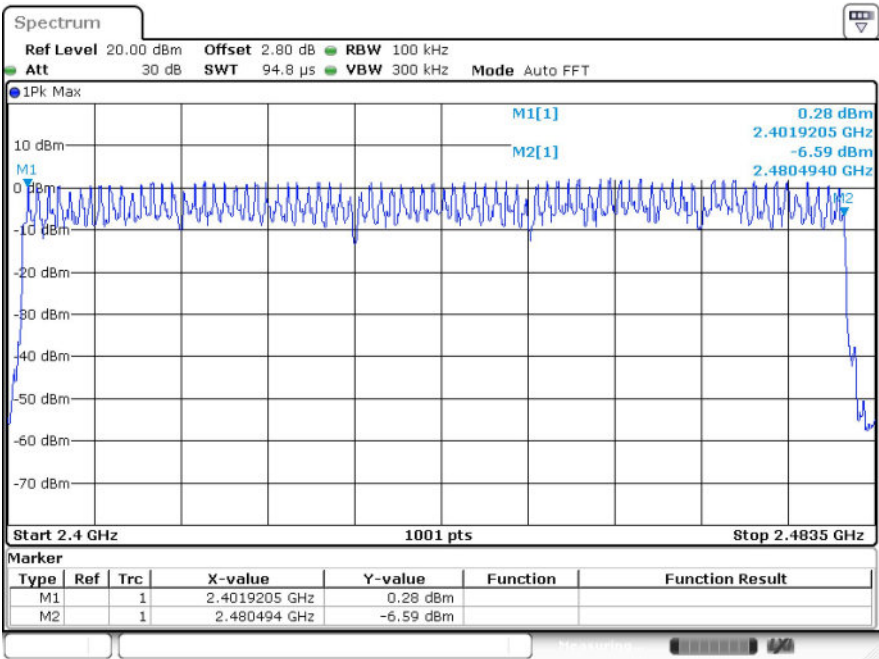
5.1 Test Result

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

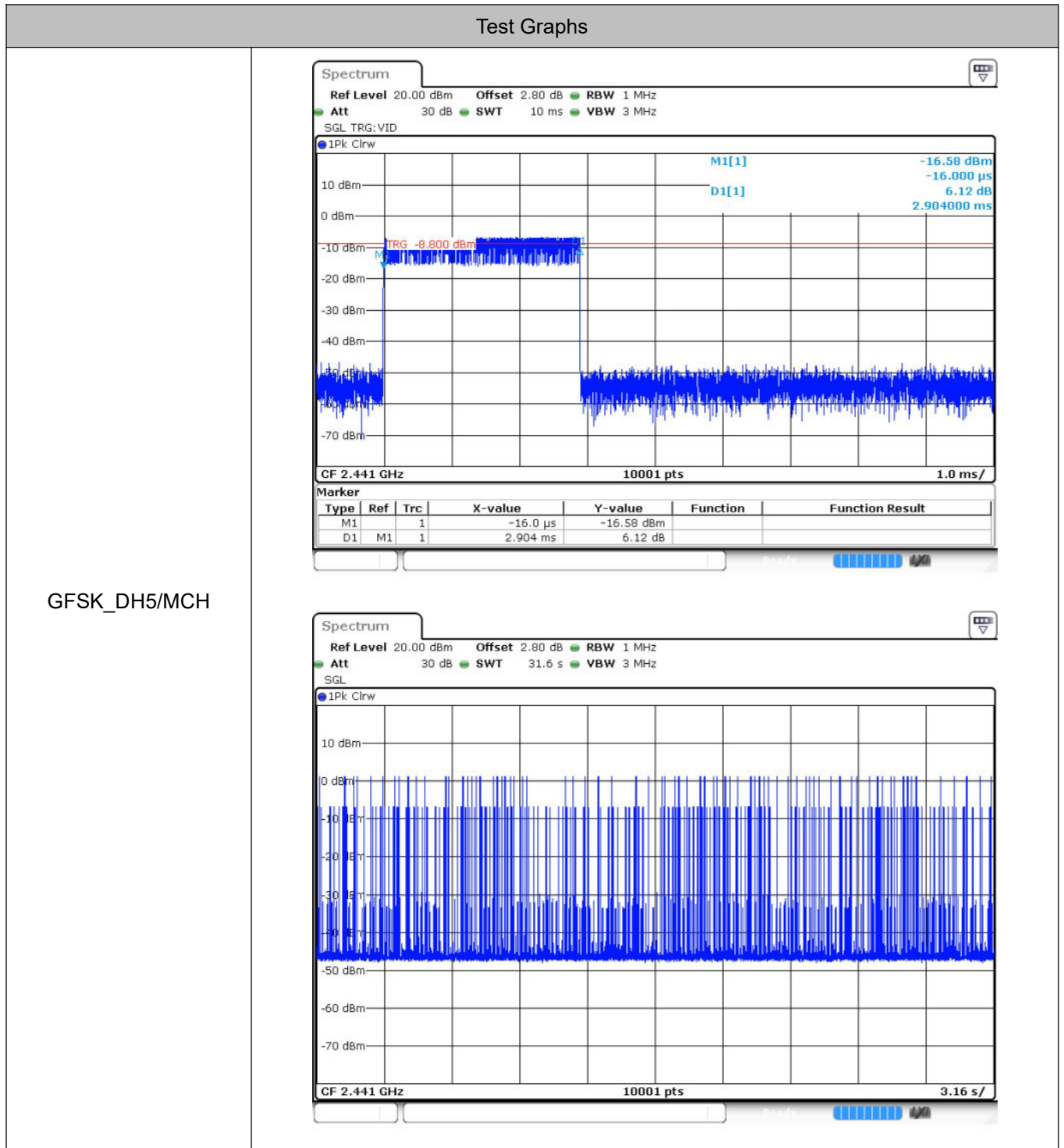


6 Dwell Time

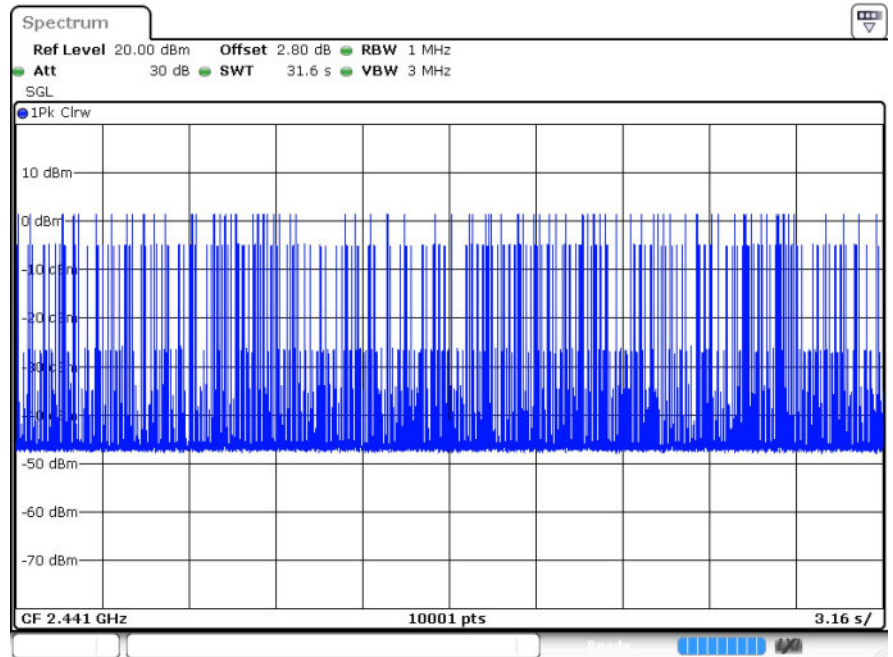
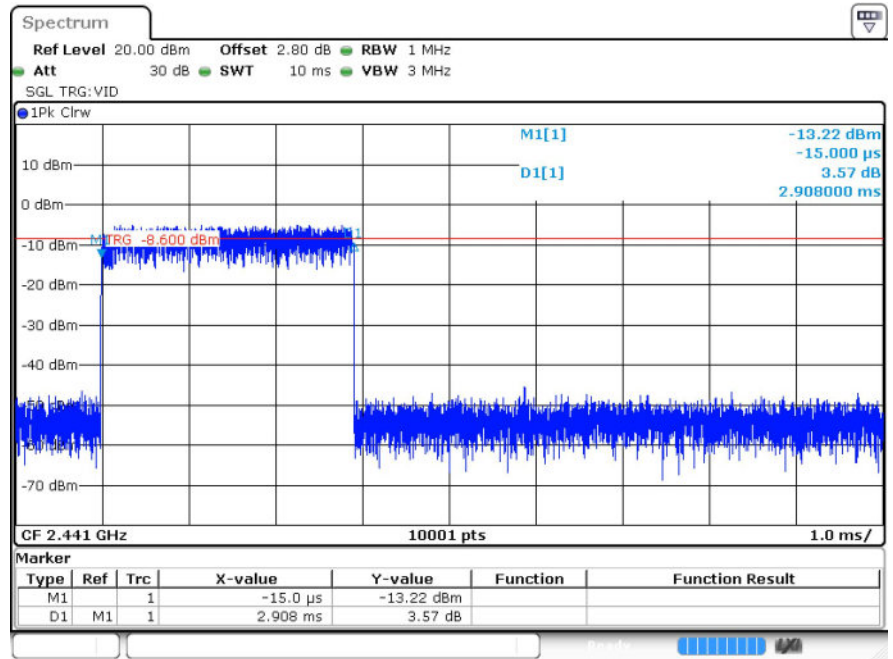
6.1 Test Result

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Limit [s]	Verdict
GFSK	DH5	MCH	2.904	93	270.072	0.4	Pass
$\pi/4$ DQPSK	2DH5	MCH	2.908	93	270.444	0.4	Pass
8DPSK	3DH5	MCH	2.911	91	264.901	0.4	Pass

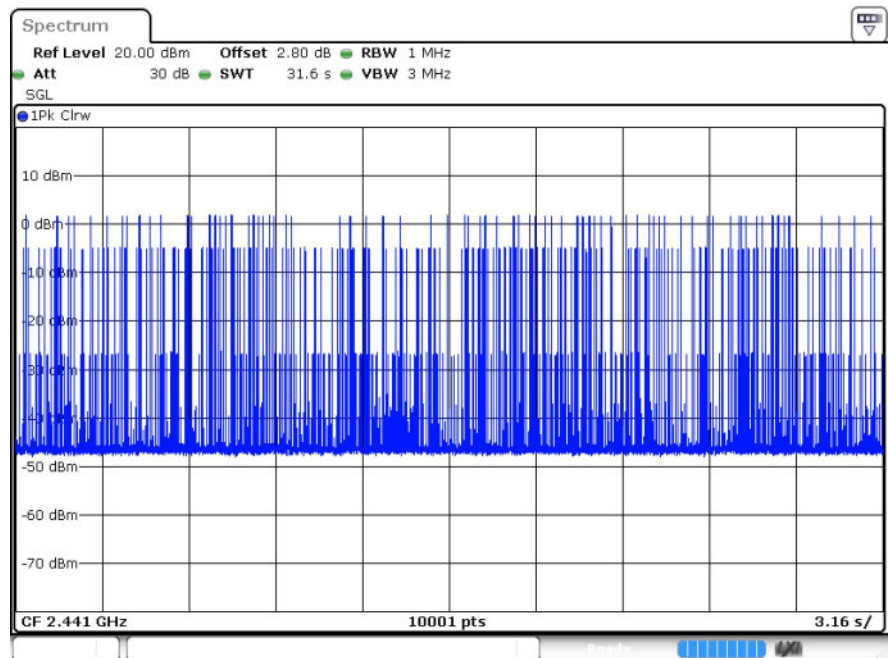
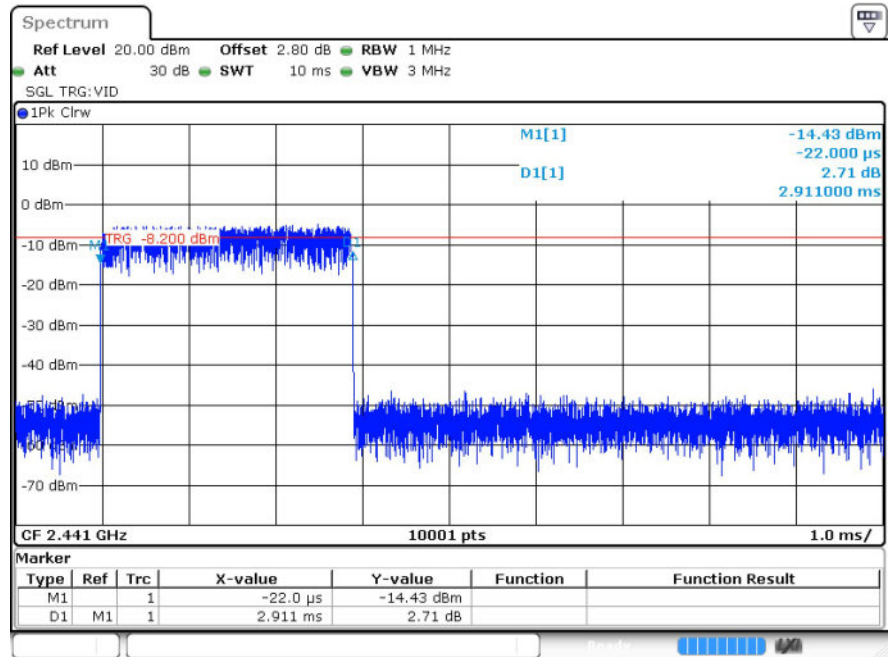
6.2 Test Graphs



$\pi/4$ DQPSK
_2DH5/MCH



8DPSK_3DH5/MCH



7 RF Conducted Spurious Emissions

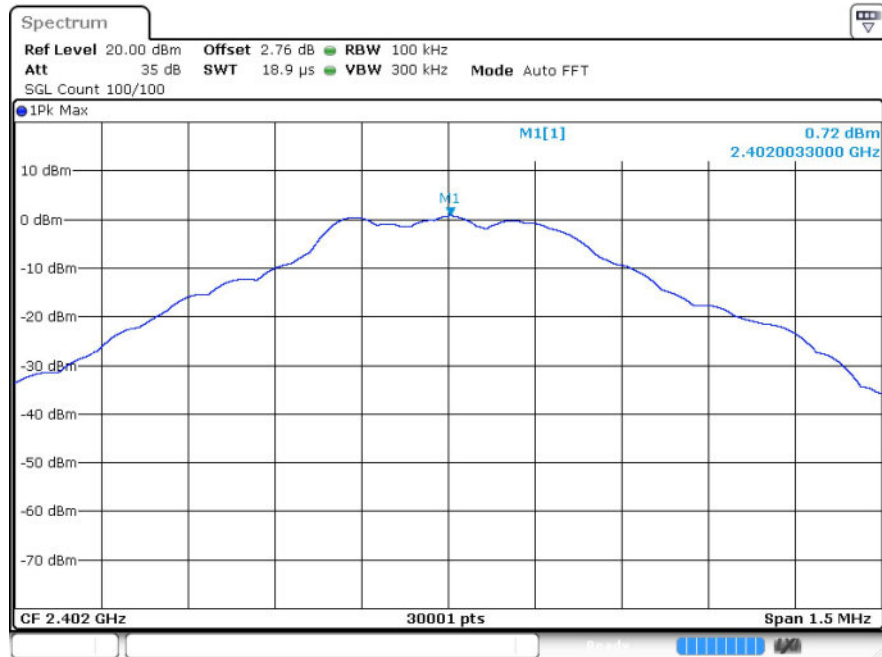
7.1 Test Result

Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-28.21	-20	Pass
	MCH	-31.38	-20	Pass
	HCH	-34.95	-20	Pass
$\pi/4$ DQPSK	LCH	-27.65	-20	Pass
	MCH	-29.48	-20	Pass
	HCH	-36.4	-20	Pass
8DPSK	LCH	-33.23	-20	Pass
	MCH	-30	-20	Pass
	HCH	-34.61	-20	Pass

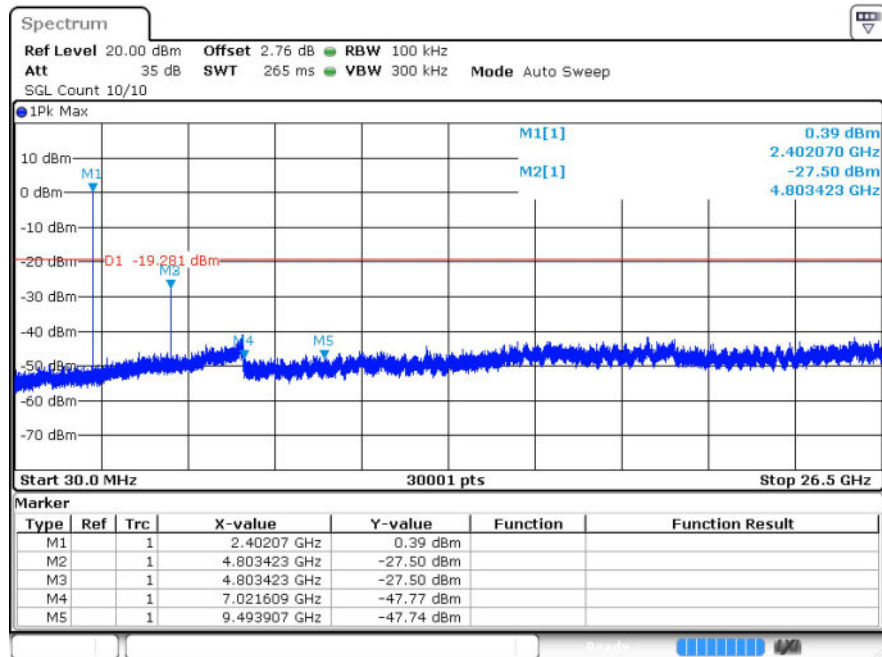
7.2 Test Graphs

GFSK_LCH_Graphs

Pref

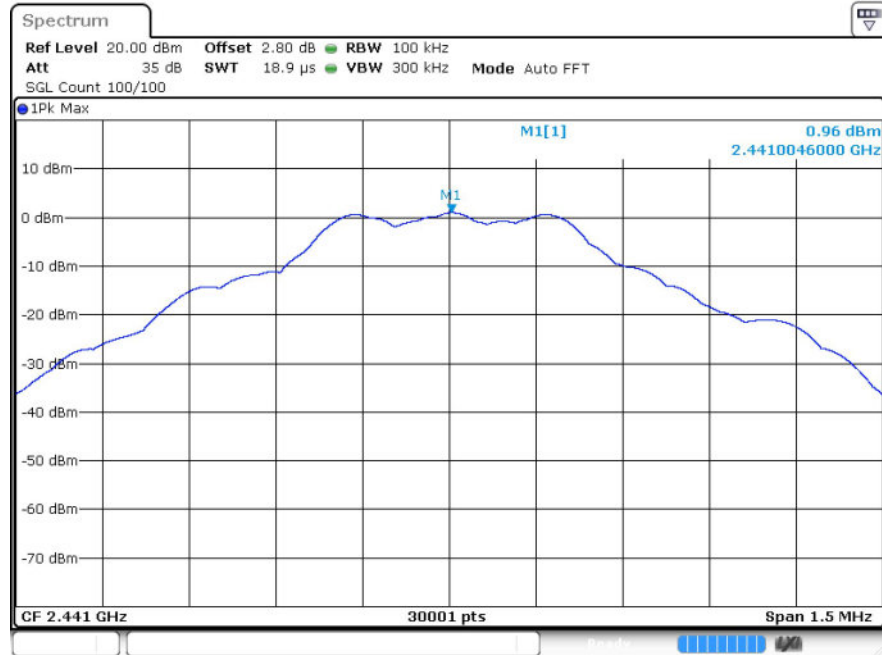


Puw

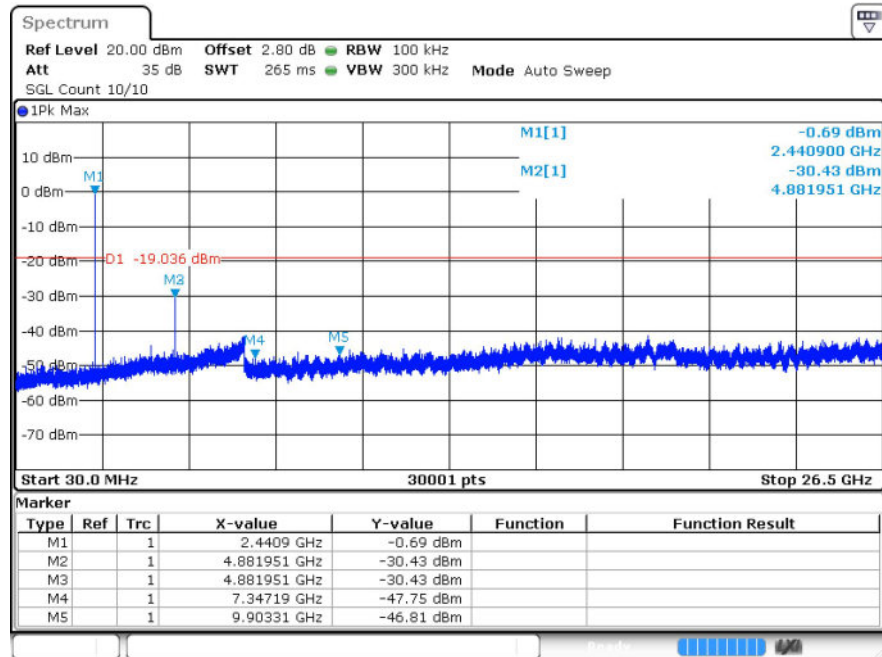


GFSK_MCH_Graphs

Pref

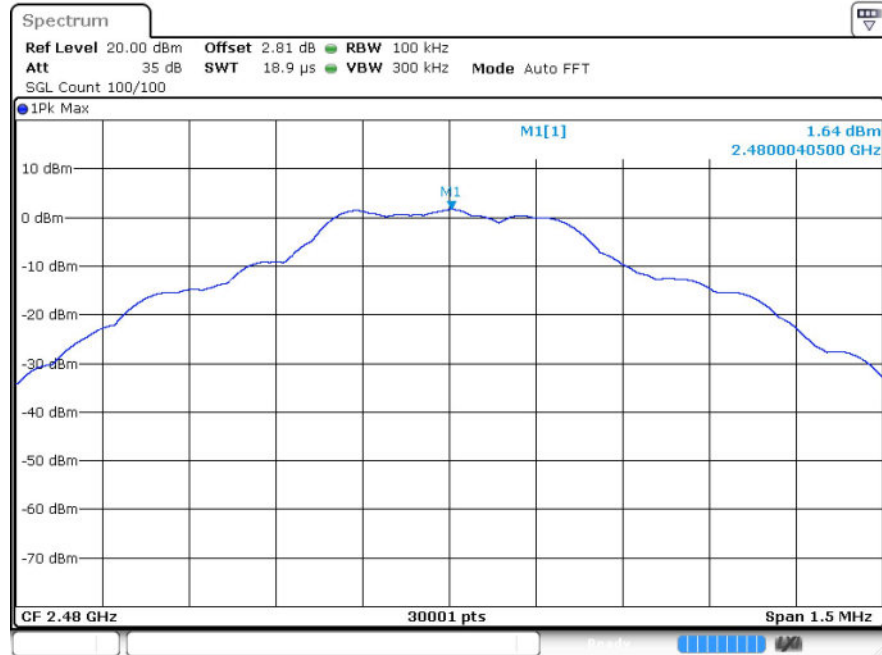


Puw



GFSK_HCH_Graphs

Pref



Puw

