



## Appendix A

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

Product Name: 281 Bluetooth Keyboard

Trade Mark: N/A

Test Model: 281

#### Environmental Conditions

Temperature:	25.8°C
Relative Humidity:	52.4%
ATM Pressure:	101Kpa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen

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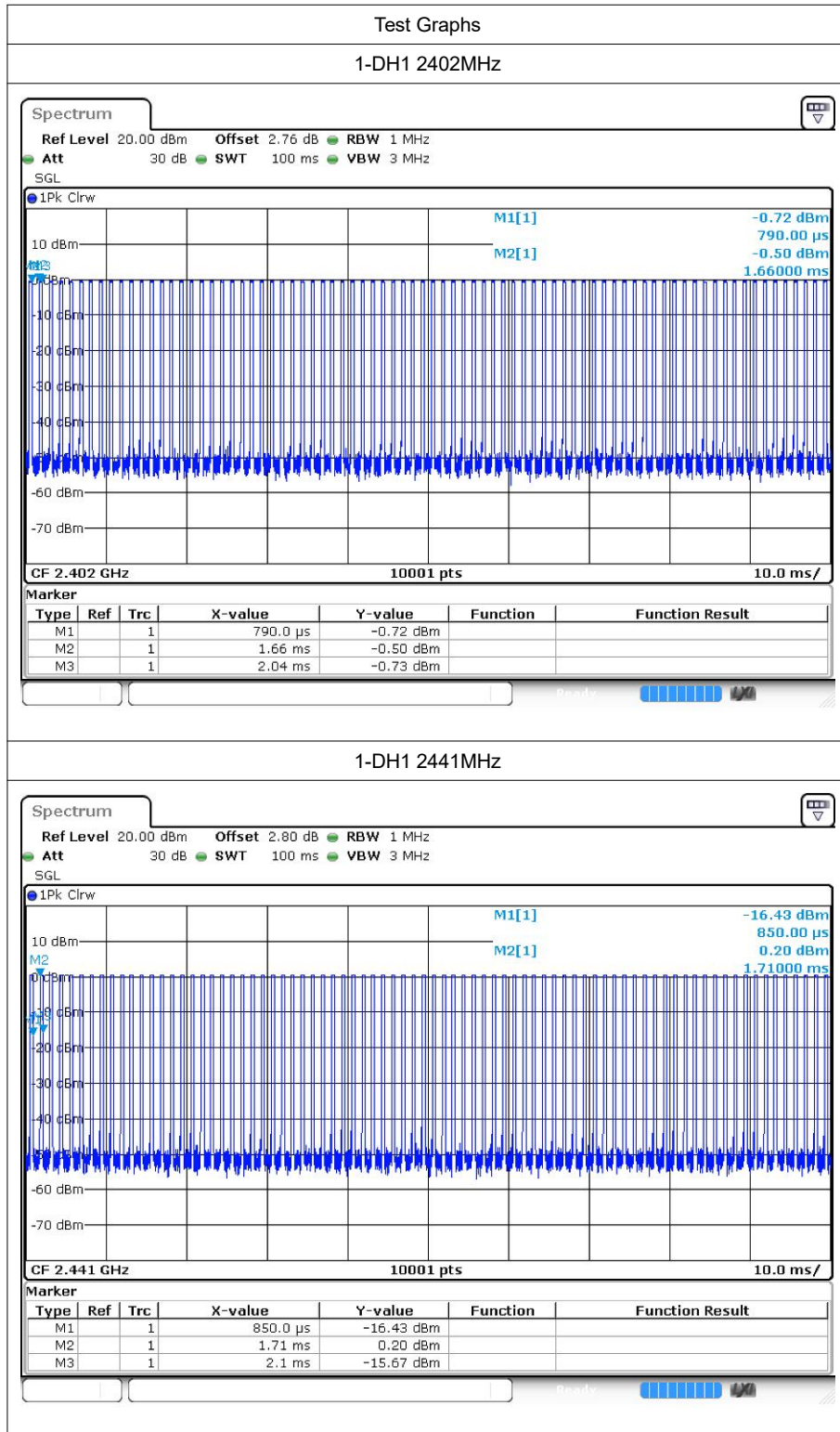
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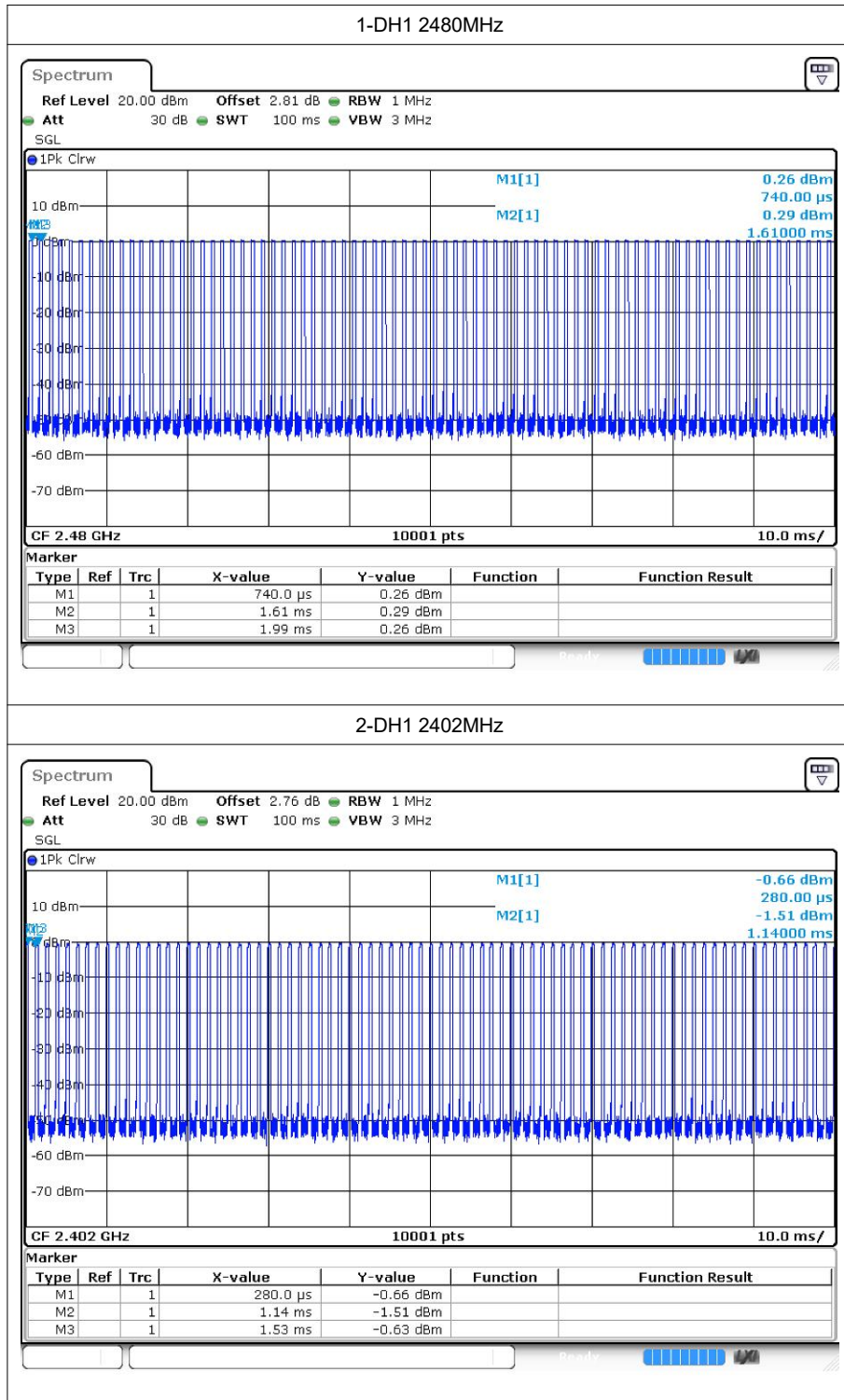
# 1 Duty Cycle

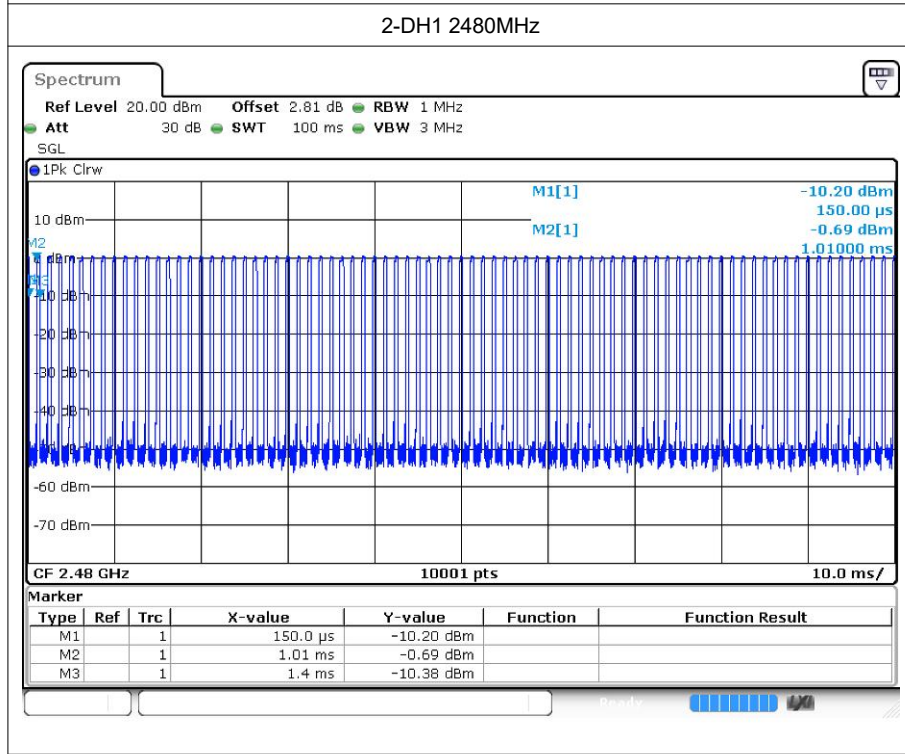
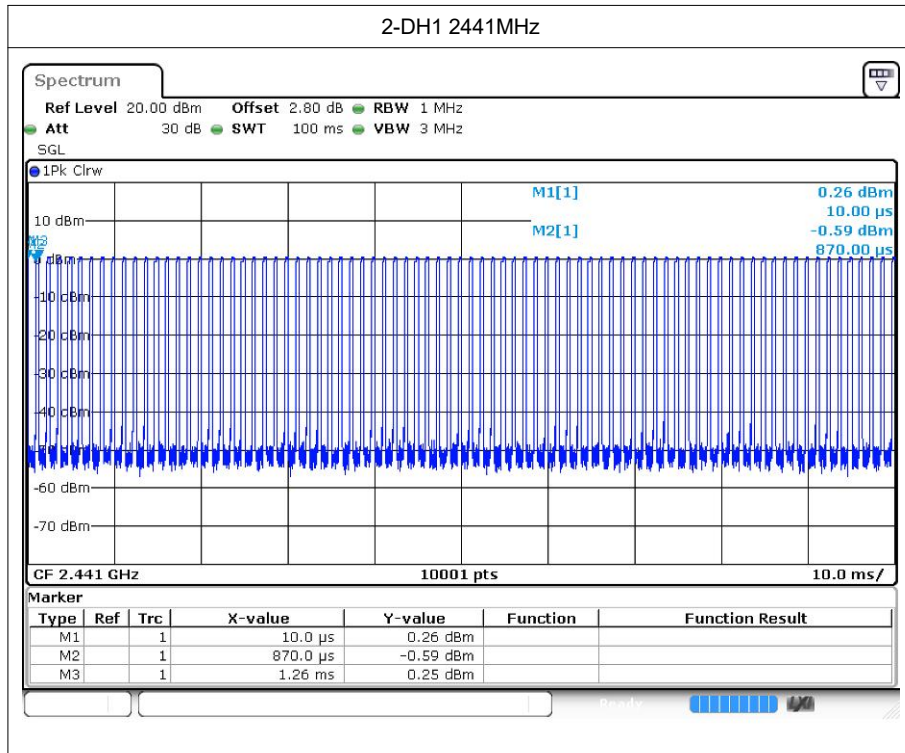
## 1.1 Test Result

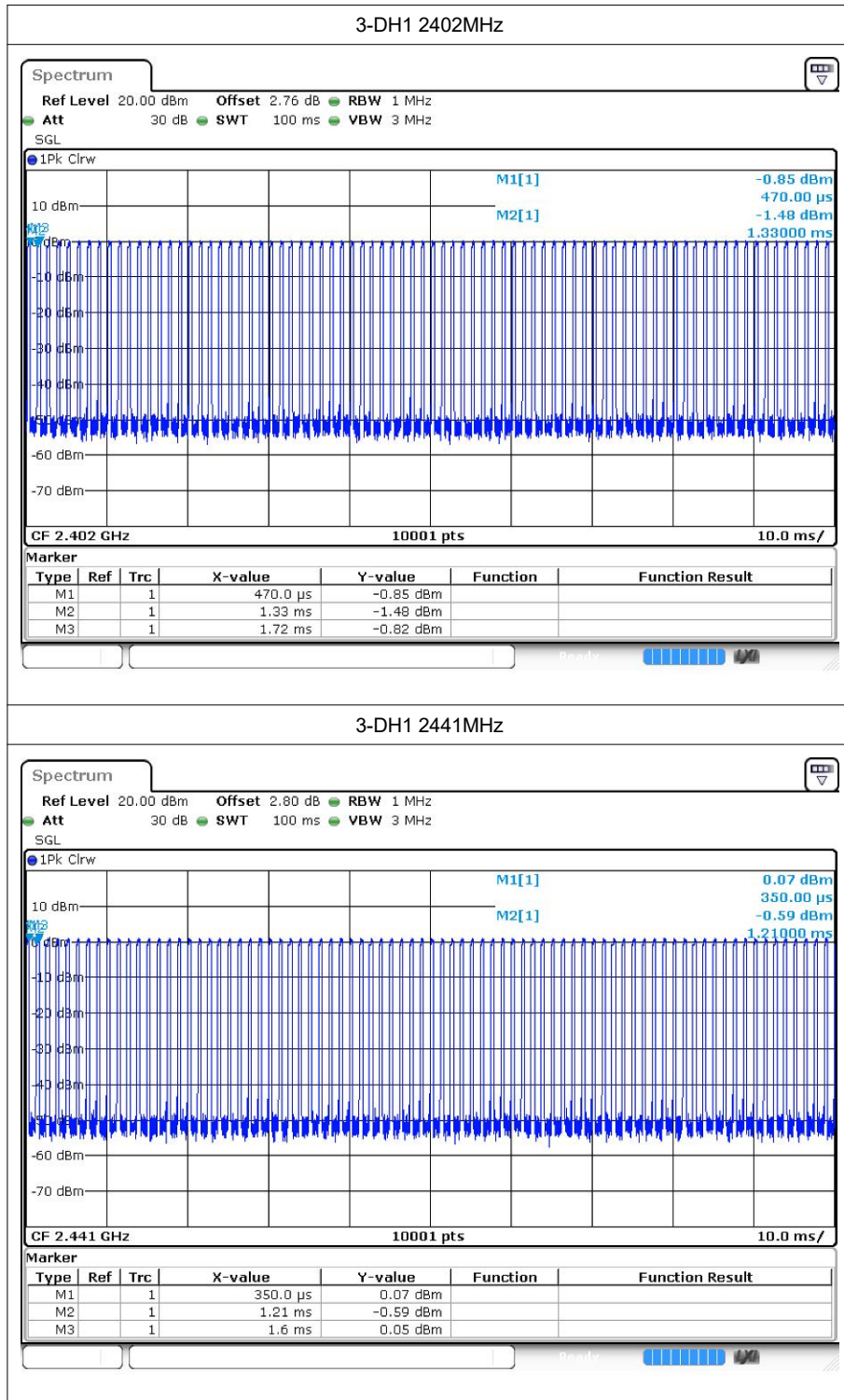
Mode	Frequency (MHz)	Duty Cycle (%)	1/T (kHz)
1-DH1	2402	31.2	2.63
1-DH1	2441	32	2.56
1-DH1	2480	31.66	2.63
2-DH1	2402	32.01	2.56
2-DH1	2441	32.01	2.56
2-DH1	2480	32.01	2.56
3-DH1	2402	32	2.56
3-DH1	2441	32.01	2.56
3-DH1	2480	32	2.56

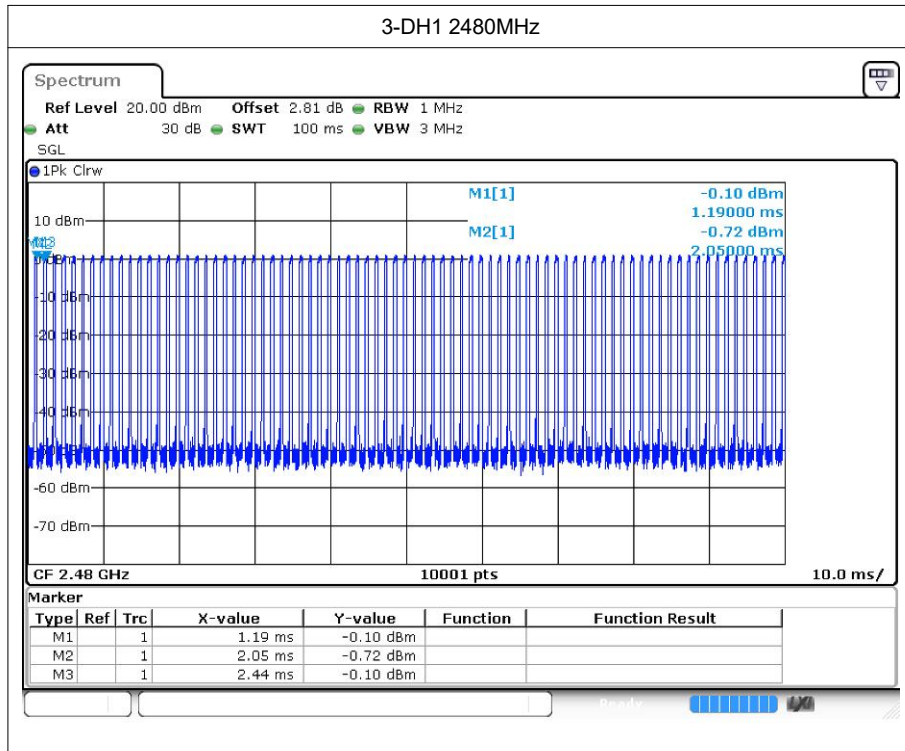
## 1.2 Test Graphs











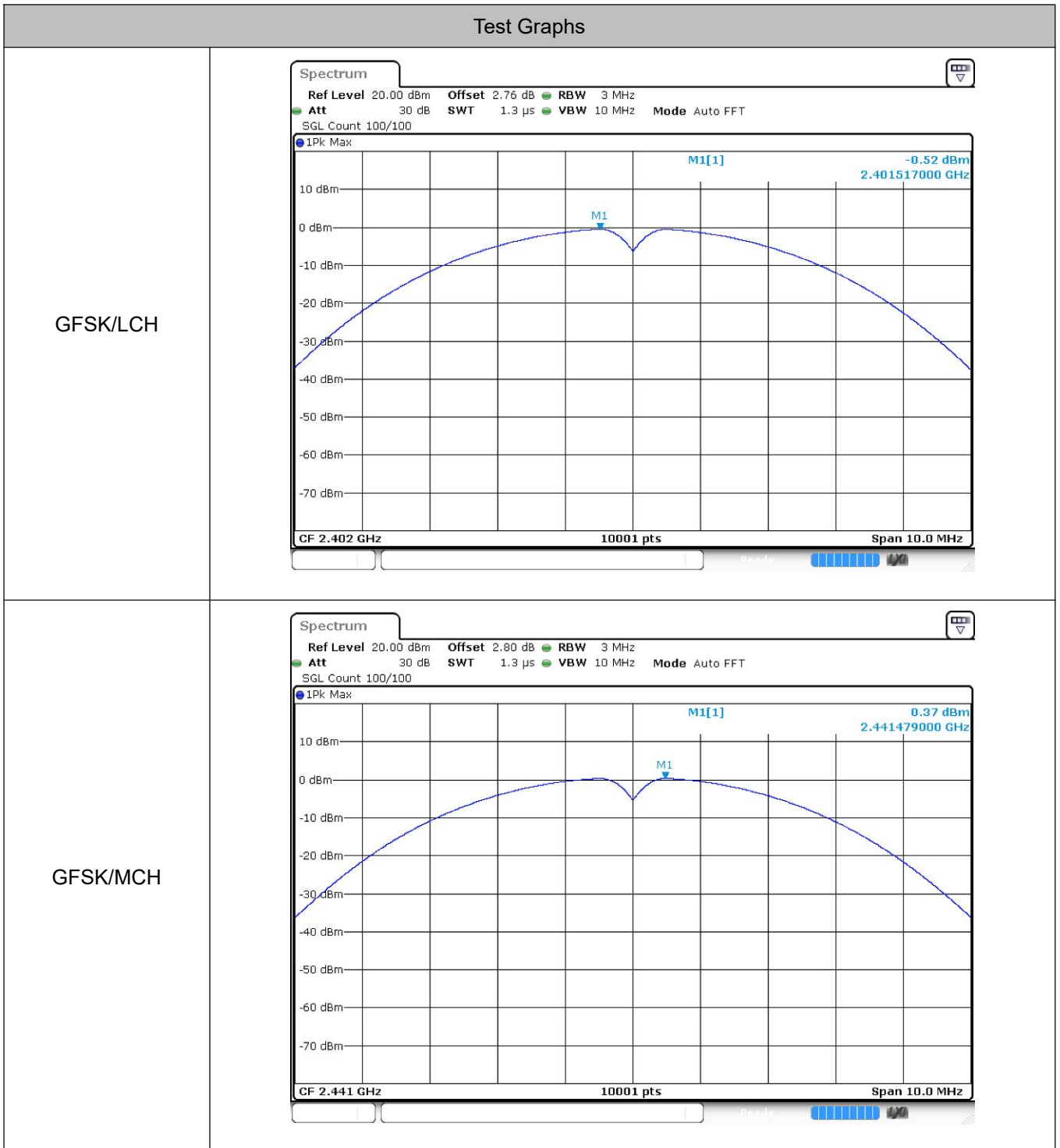


## 2 Maximum Conducted Peak Output Power

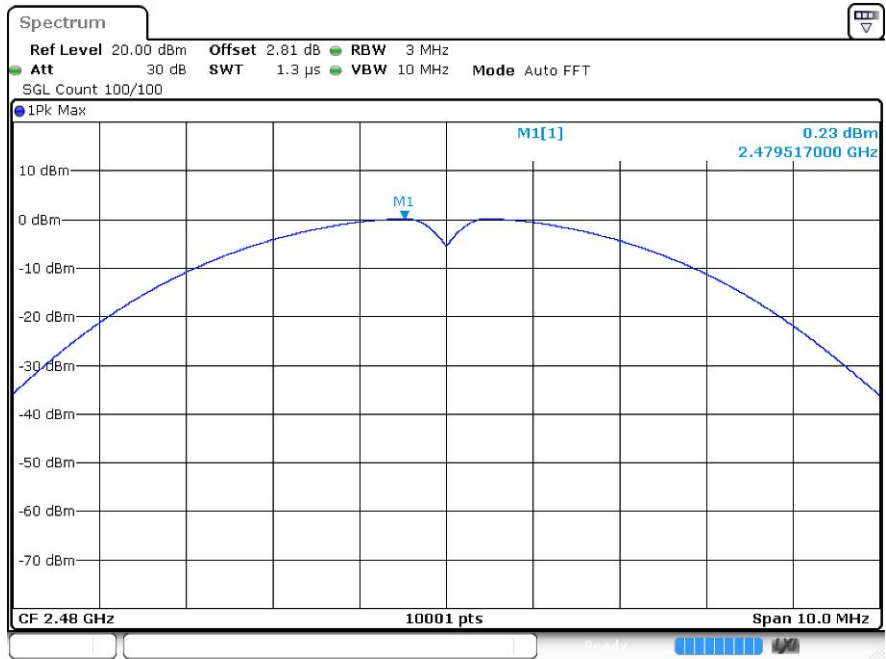
### 2.1 Test Result

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-0.52	21	Pass
	MCH	0.37	21	Pass
	HCH	0.23	21	Pass
$\pi/4$ DQPSK	LCH	0.55	21	Pass
	MCH	1.06	21	Pass
	HCH	1.26	21	Pass
8DPSK	LCH	1.02	21	Pass
	MCH	1.97	21	Pass
	HCH	1.07	21	Pass

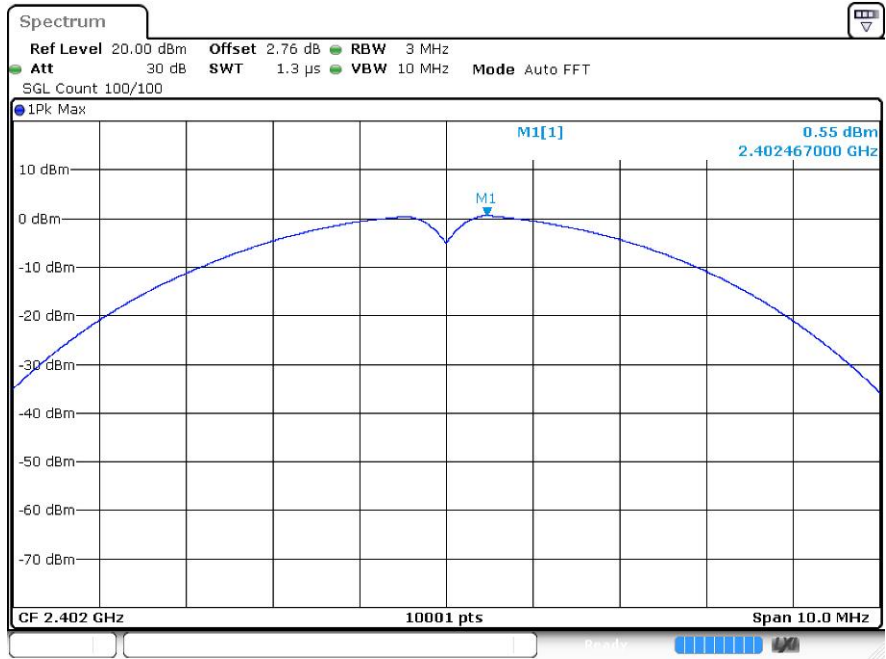
## 2.2 Test Graphs



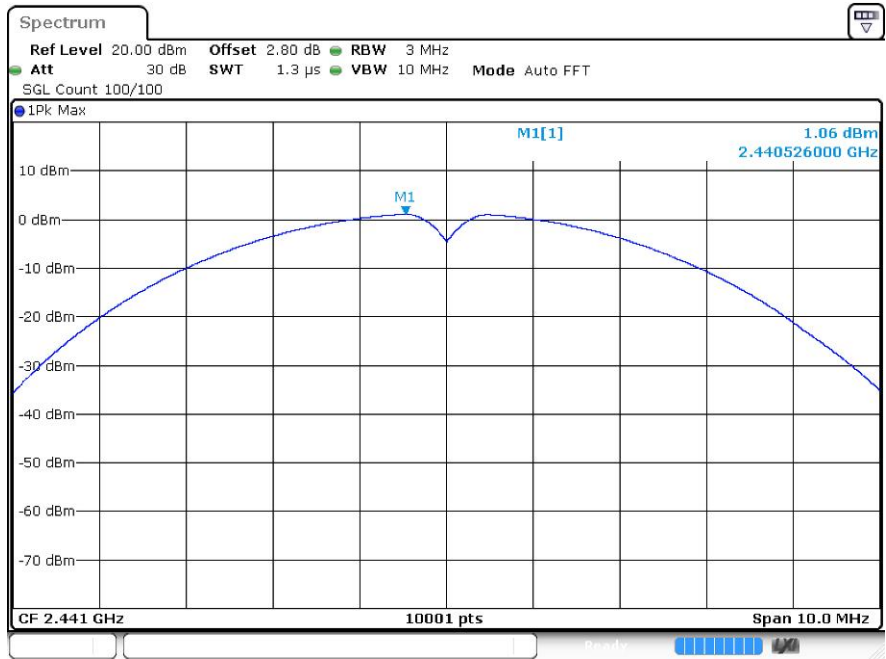
GFSK/HCH



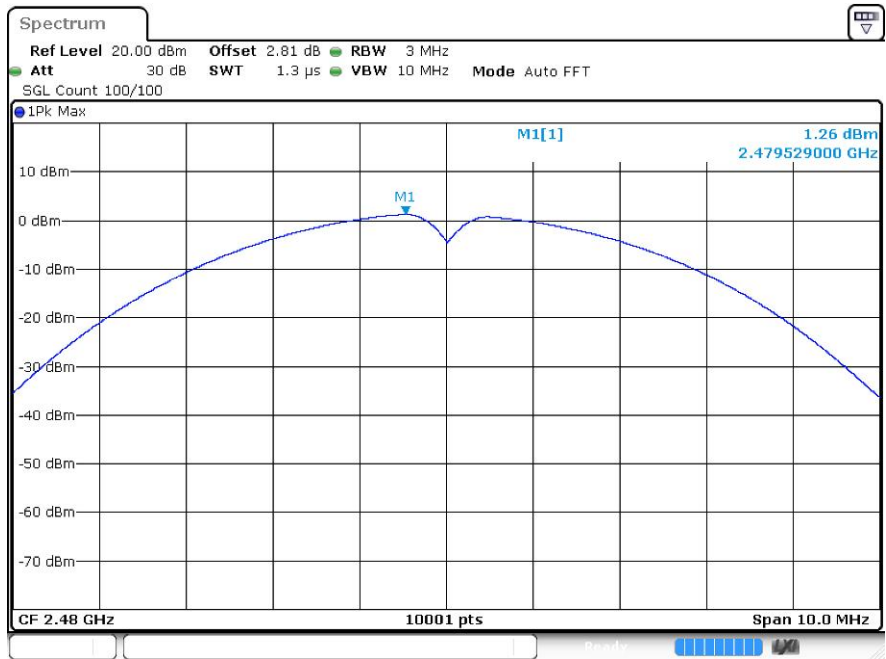
$\pi/4$ DQPSK/LCH



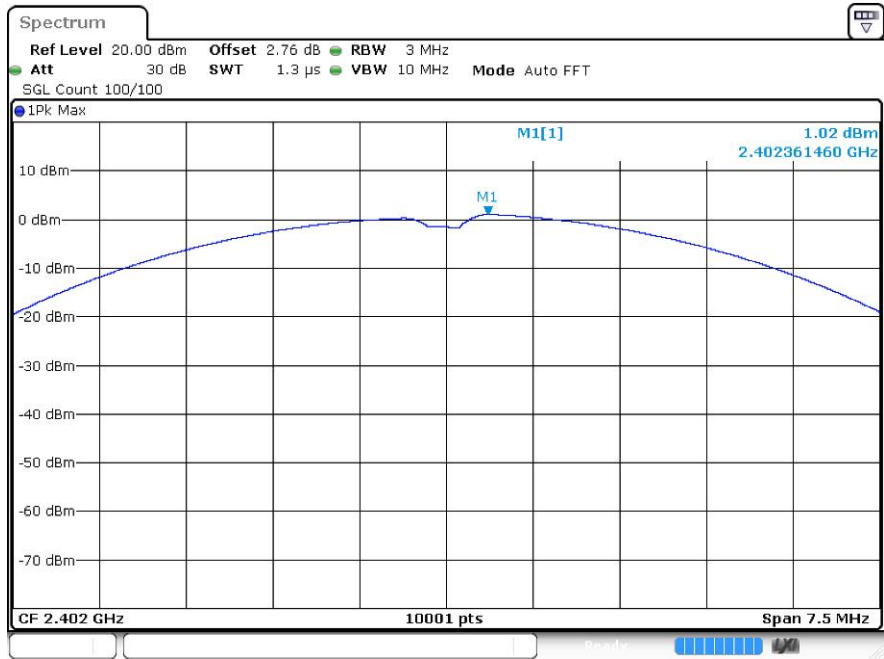
$\pi/4$ DQPSK/MCH



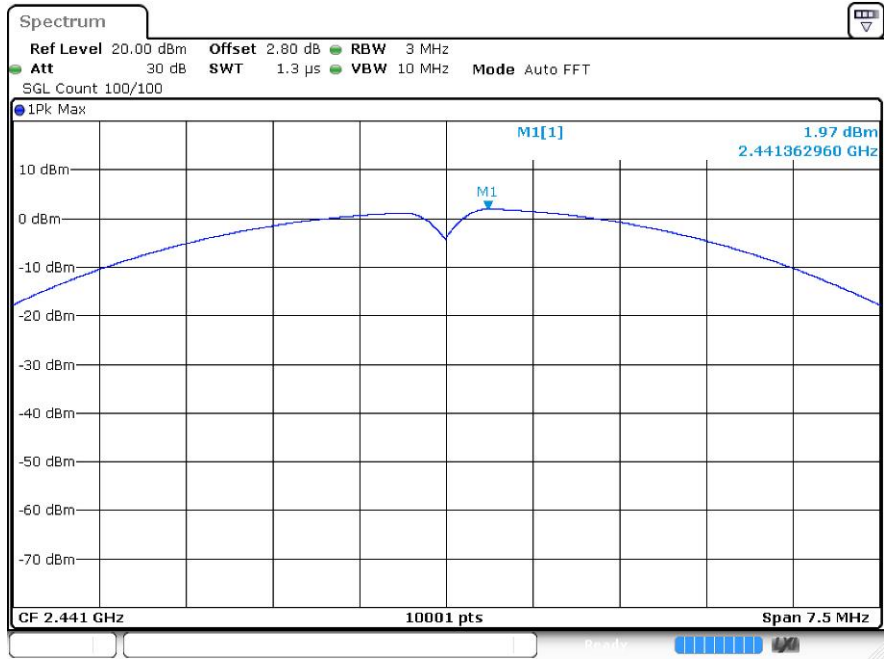
$\pi/4$ DQPSK/HCH



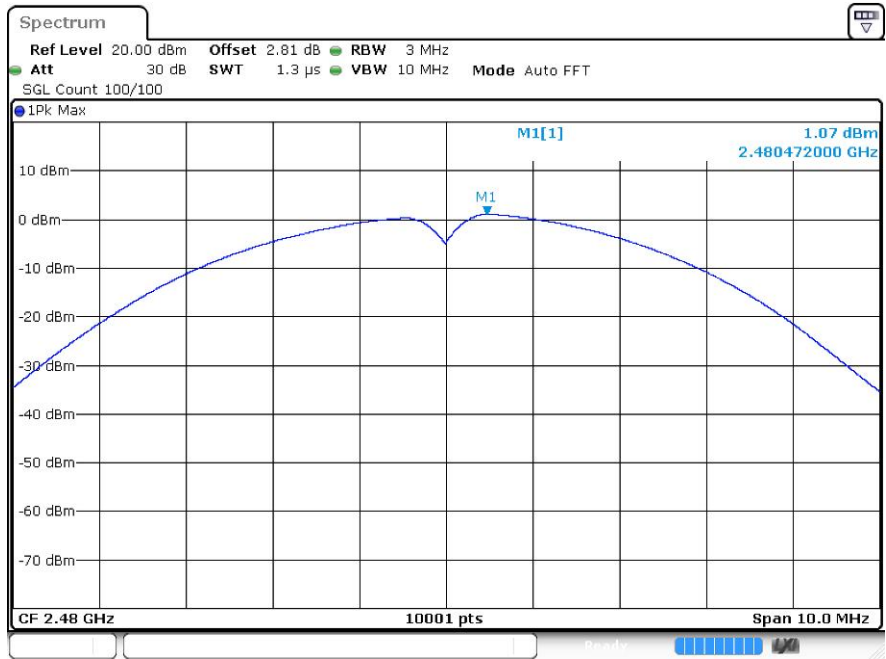
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

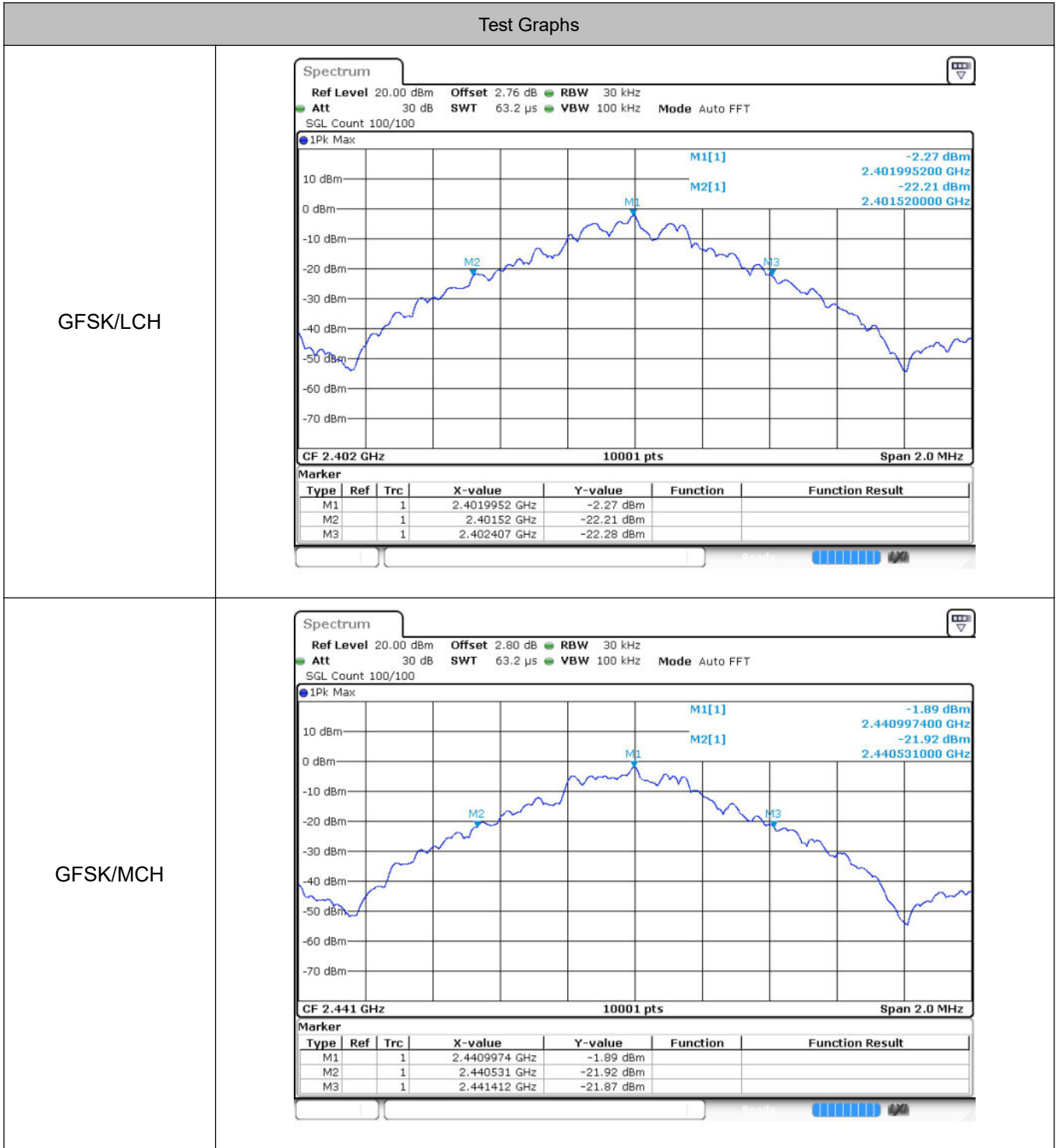


### 3 20dB Bandwidth

#### 3.1 Test Result

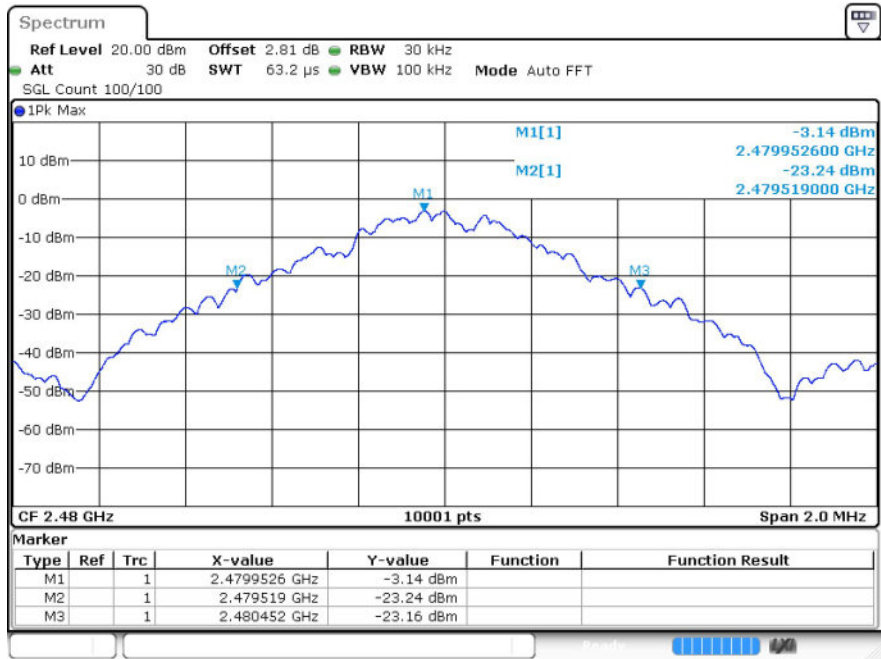
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.887	Not Specified	Pass
	MCH	0.881	Not Specified	Pass
	HCH	0.932	Not Specified	Pass
$\pi/4$ DQPSK	LCH	1.423	Not Specified	Pass
	MCH	1.465	Not Specified	Pass
	HCH	1.39	Not Specified	Pass
8DPSK	LCH	1.417	Not Specified	Pass
	MCH	1.438	Not Specified	Pass
	HCH	1.437	Not Specified	Pass

### 3.2 Test Graphs

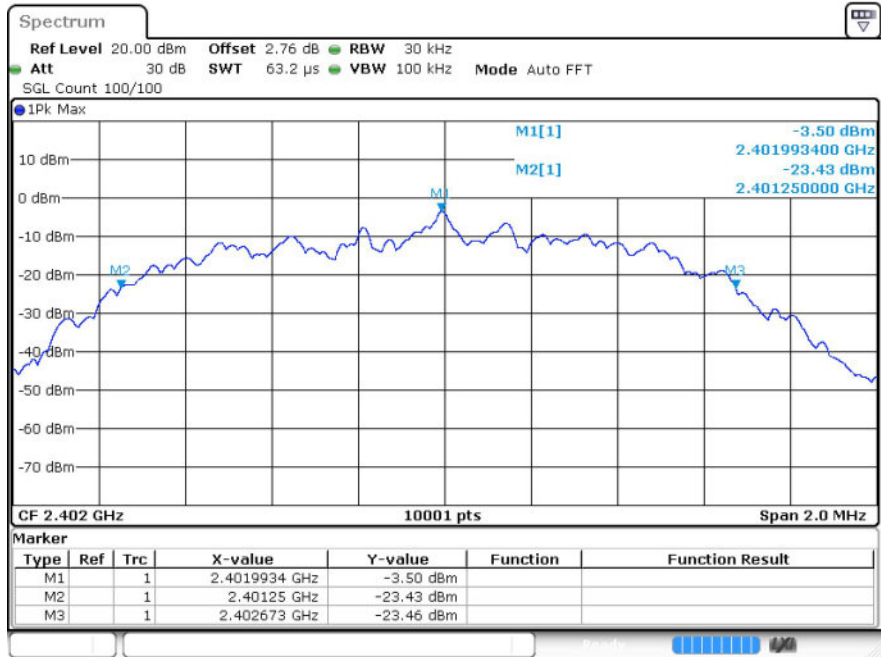




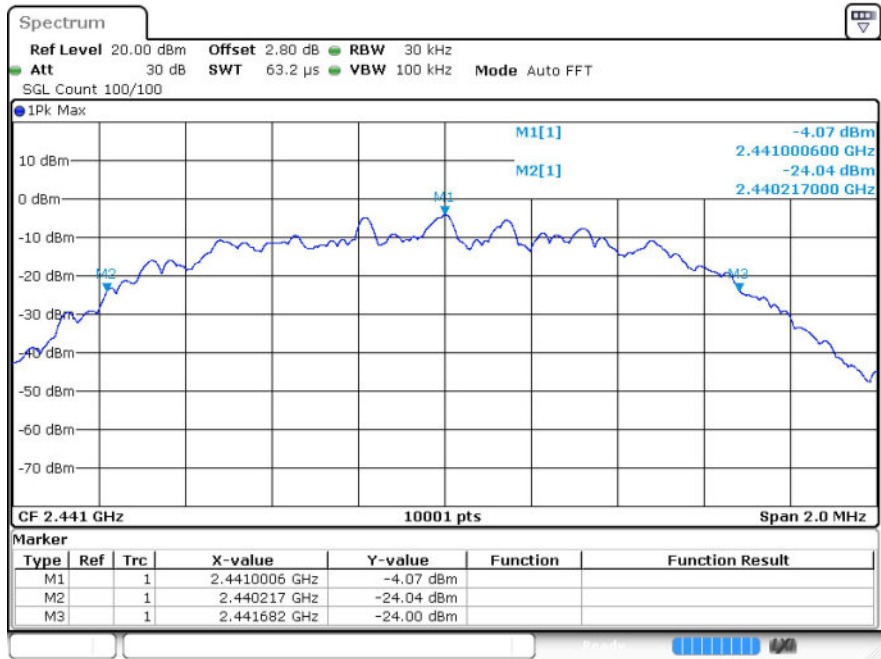
GFSK/HCH



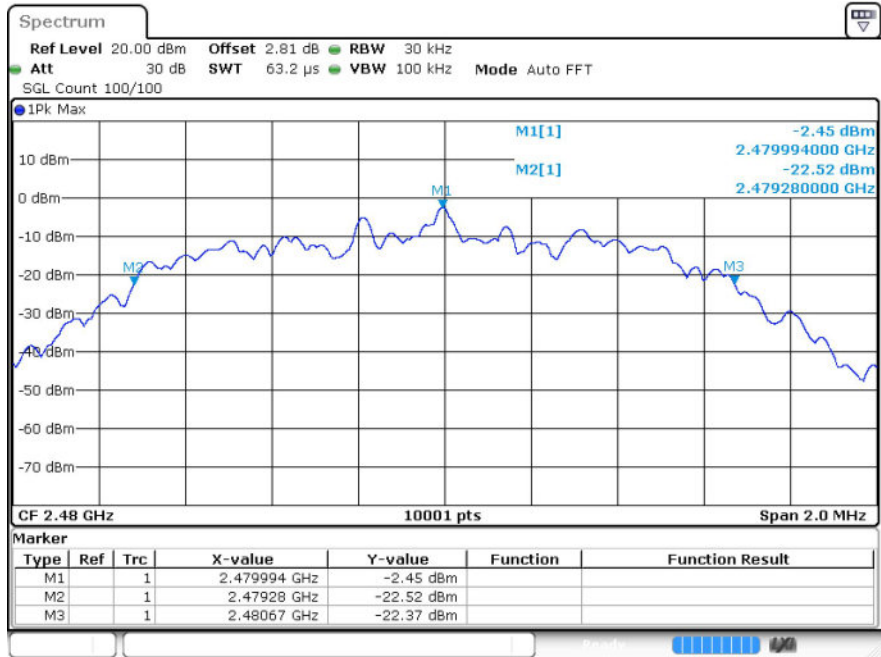
$\pi/4$ DQPSK/LCH



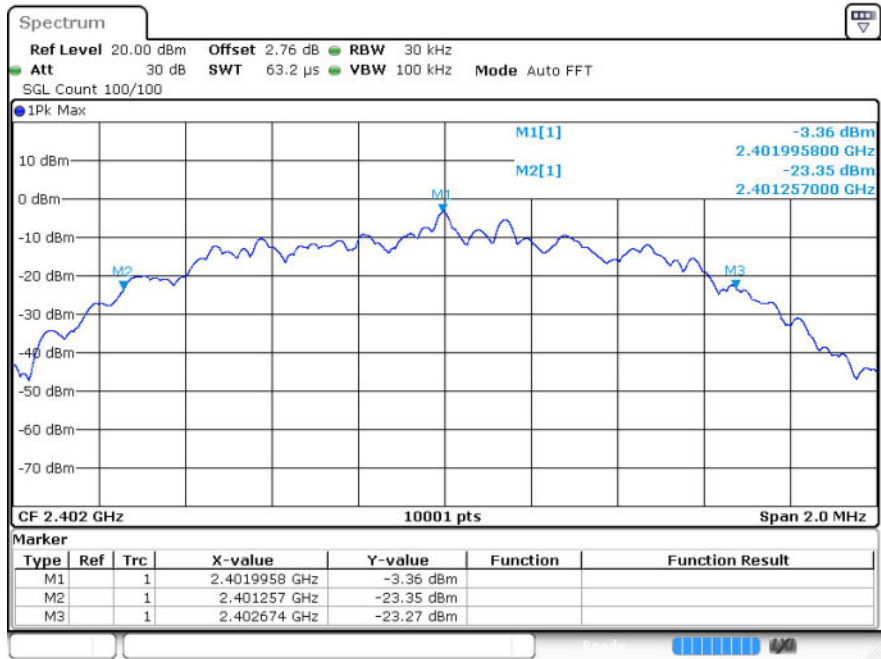
$\pi/4$ DQPSK/MCH



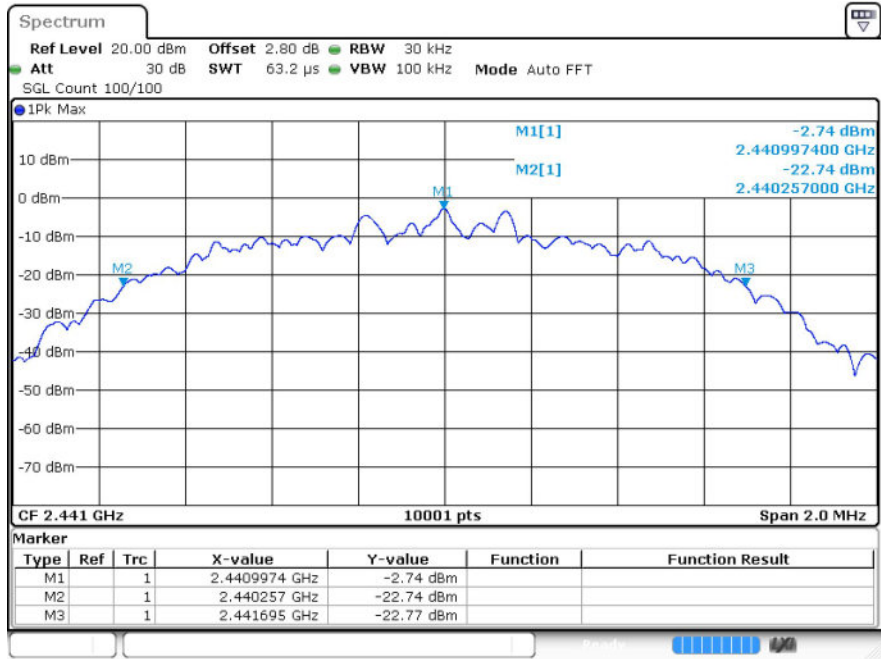
$\pi/4$ DQPSK/HCH



8DPSK/LCH

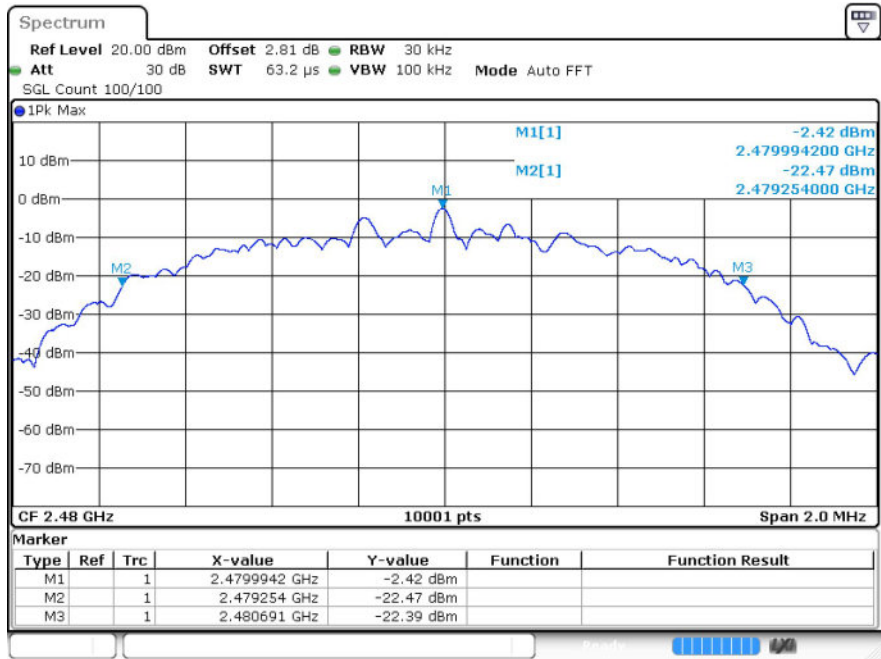


8DPSK/MCH





8DPSK/HCH



## 4 Carrier Frequency Separation

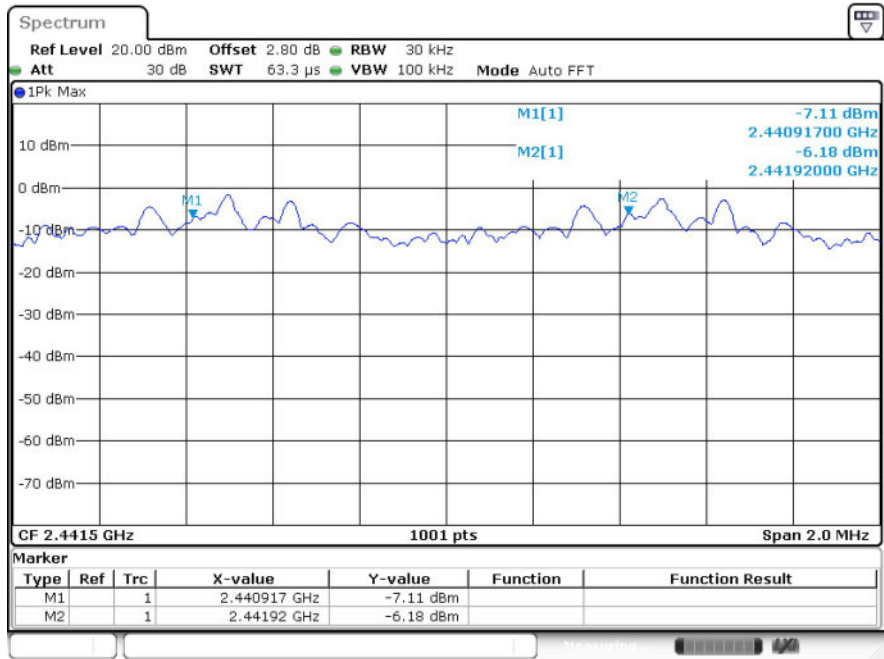
### 4.1 Test Result

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	0.998	0.587	Pass
$\pi/4$ DQPSK	MCH	1.031	0.977	Pass
8DPSK	MCH	1.003	0.959	Pass

## 4.2 Test Graphs



8DPSK/MCH



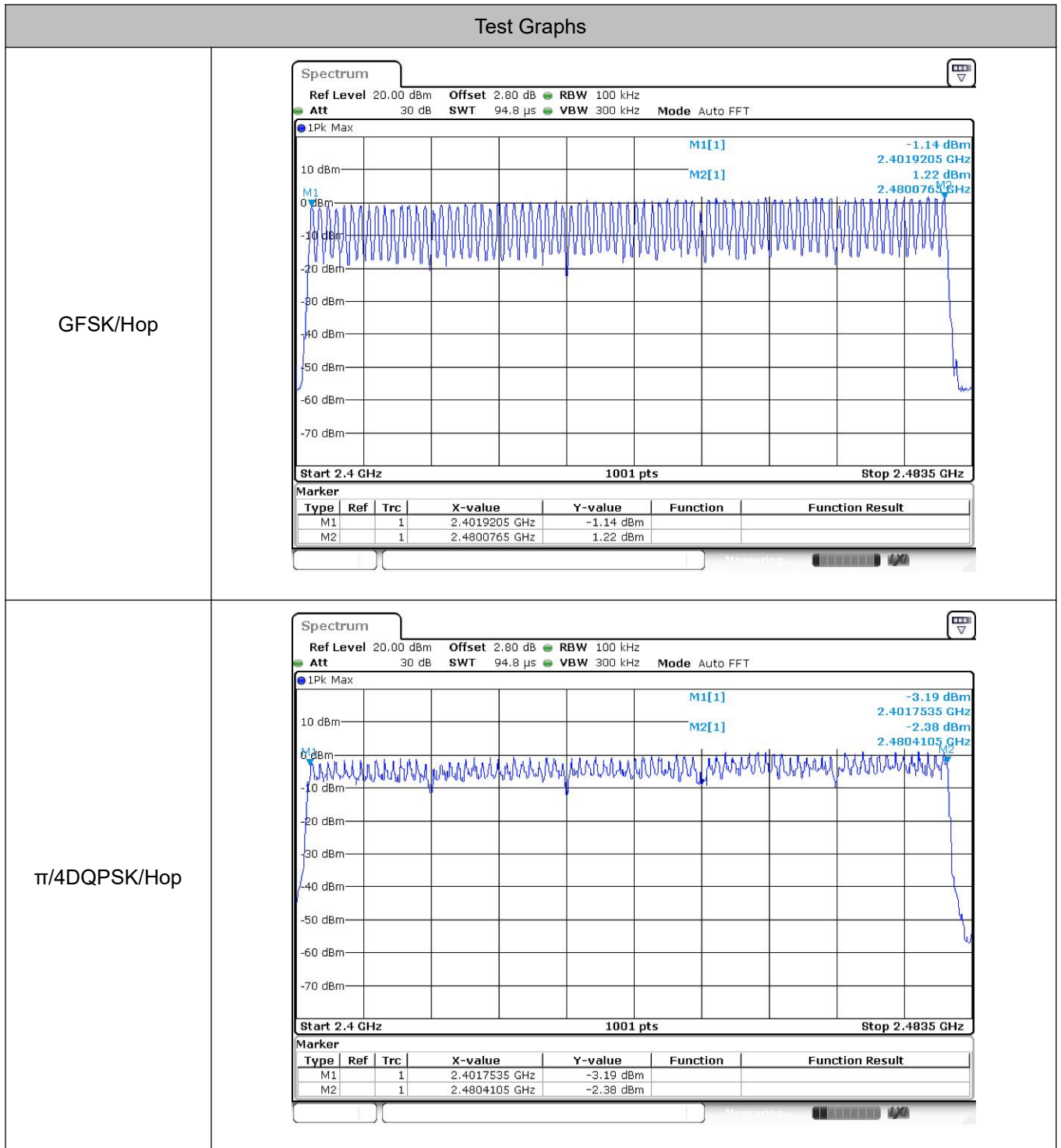
## 5 Hopping Channel Number

### 5.1 Test Result

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

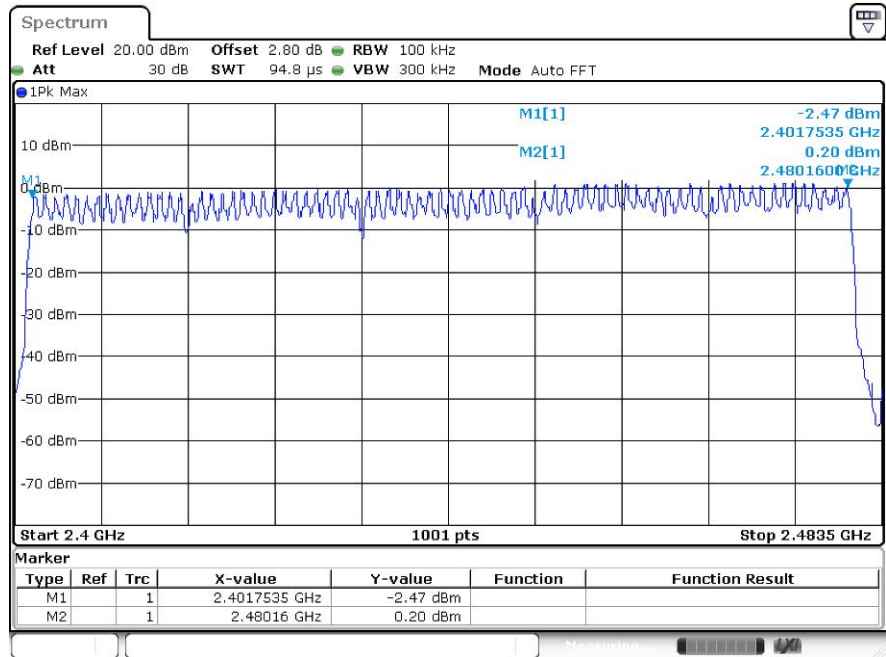


## 5.2 Test Graphs





8DPSK/Hop

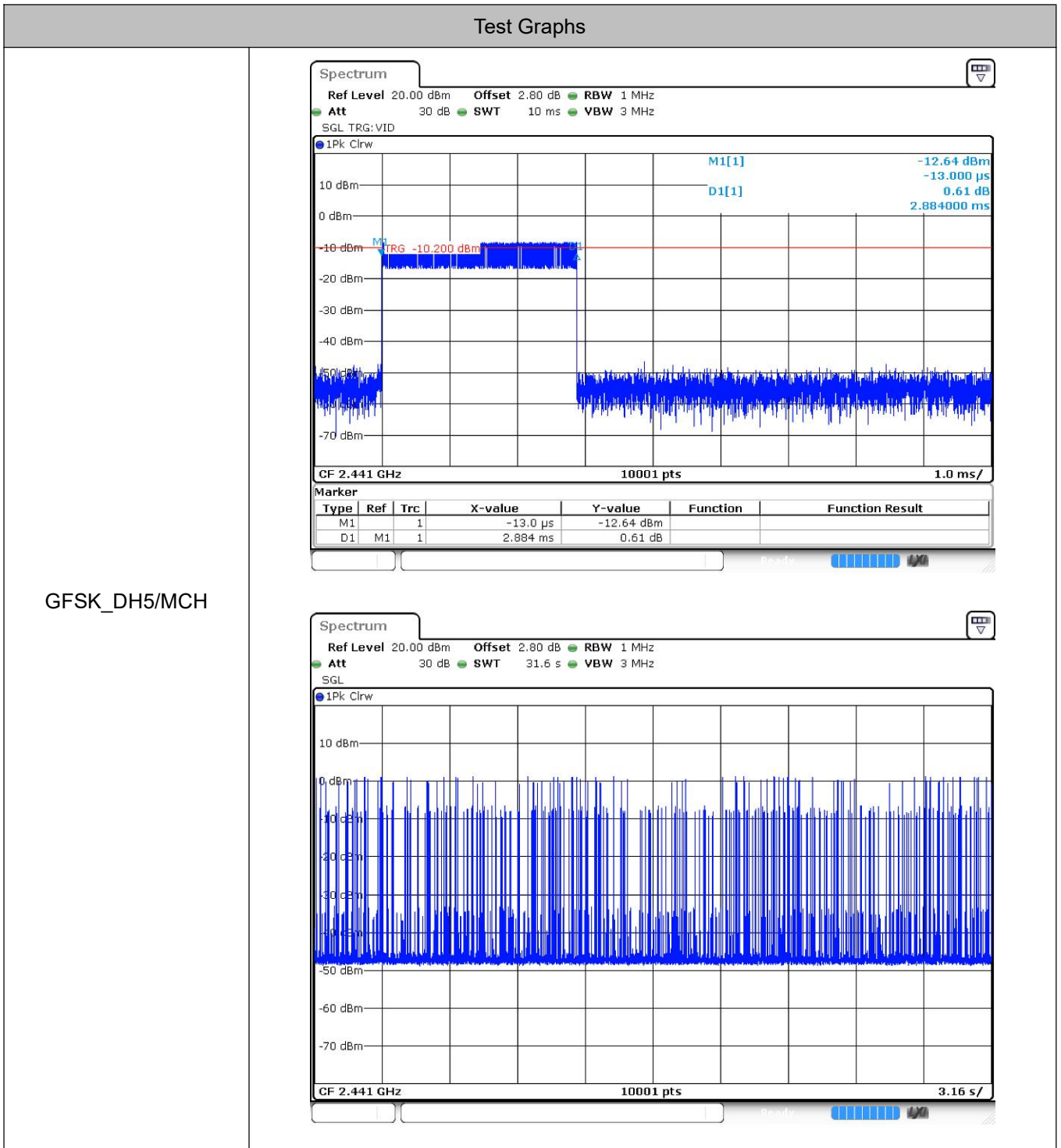


## 6 Dwell Time

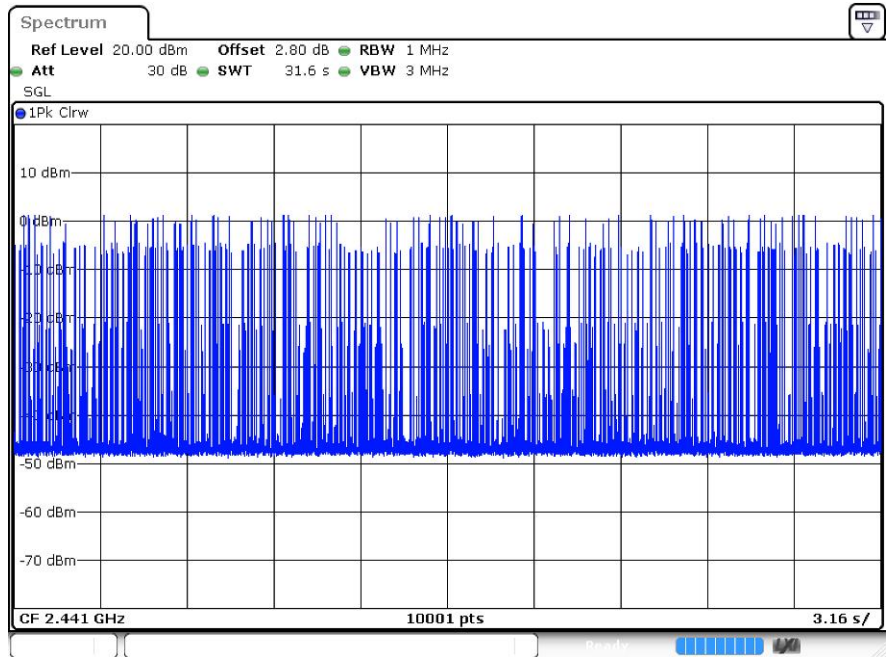
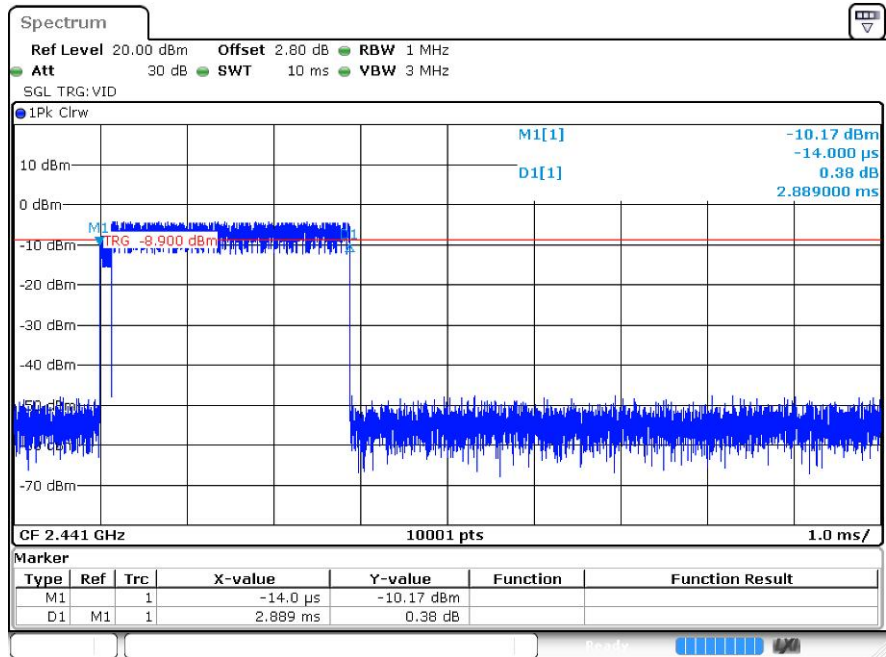
### 6.1 Test Result

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Limit [s]	Verdict
GFSK	DH5	MCH	2.884	99	285.516	0.4	Pass
$\pi/4$ DQPSK	2DH5	MCH	2.889	101	291.789	0.4	Pass
8DPSK	3DH5	MCH	2.891	96	277.536	0.4	Pass

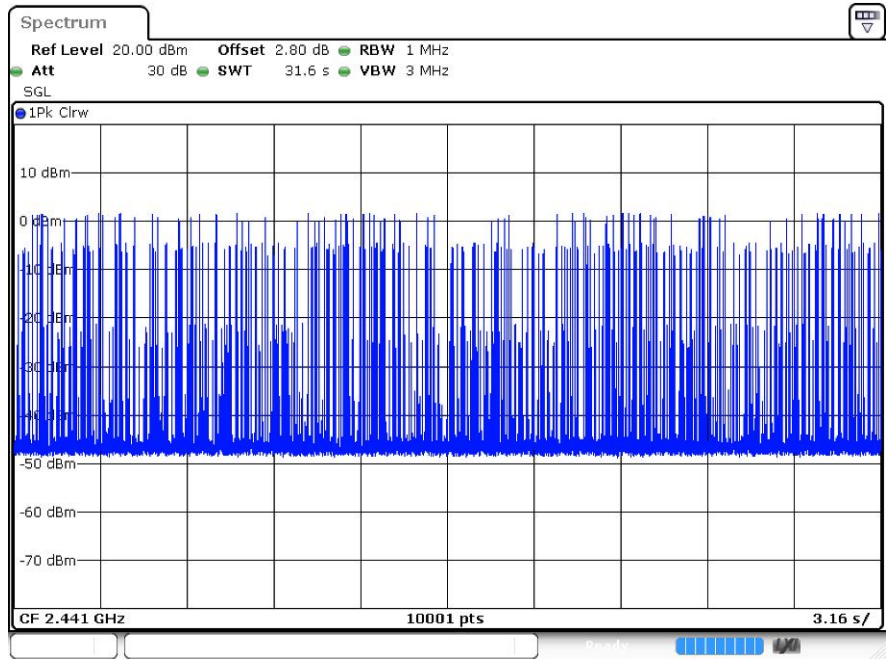
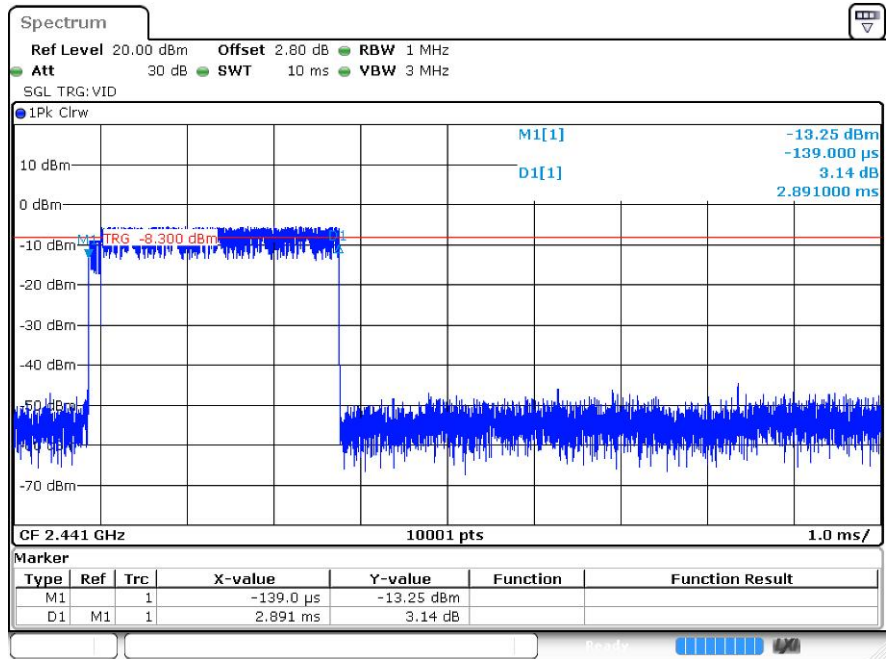
## 6.2 Test Graphs



$\pi/4$ DQPSK  
\_2DH5/MCH



8DPSK\_3DH5/MCH

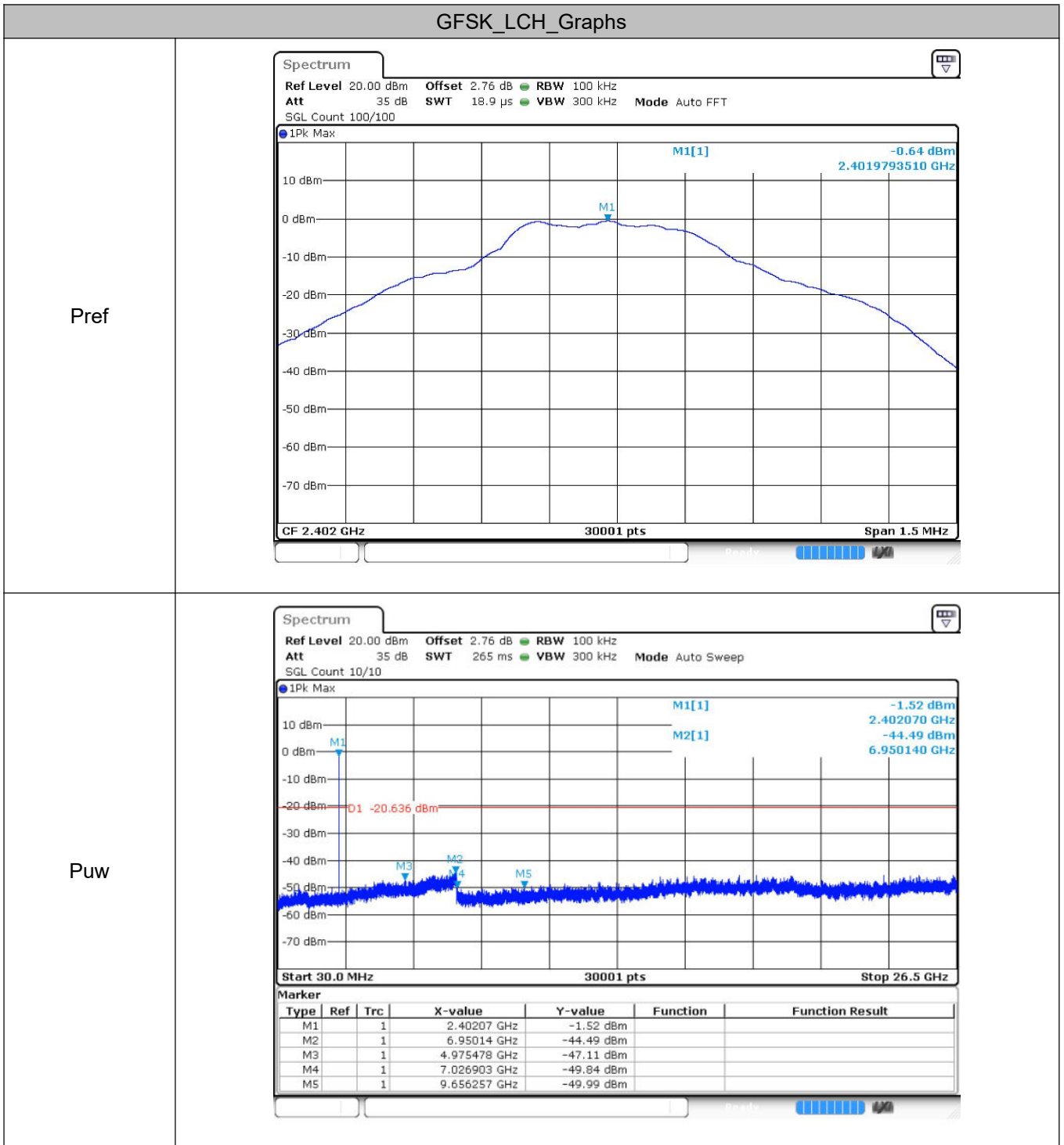


## 7 RF Conducted Spurious Emissions

### 7.1 Test Result

Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-43.85	-20	Pass
	MCH	-44.13	-20	Pass
	HCH	-44.89	-20	Pass
$\pi/4$ DQPSK	LCH	-42.57	-20	Pass
	MCH	-42.69	-20	Pass
	HCH	-43.98	-20	Pass
8DPSK	LCH	-42.86	-20	Pass
	MCH	-43.5	-20	Pass
	HCH	-44.31	-20	Pass

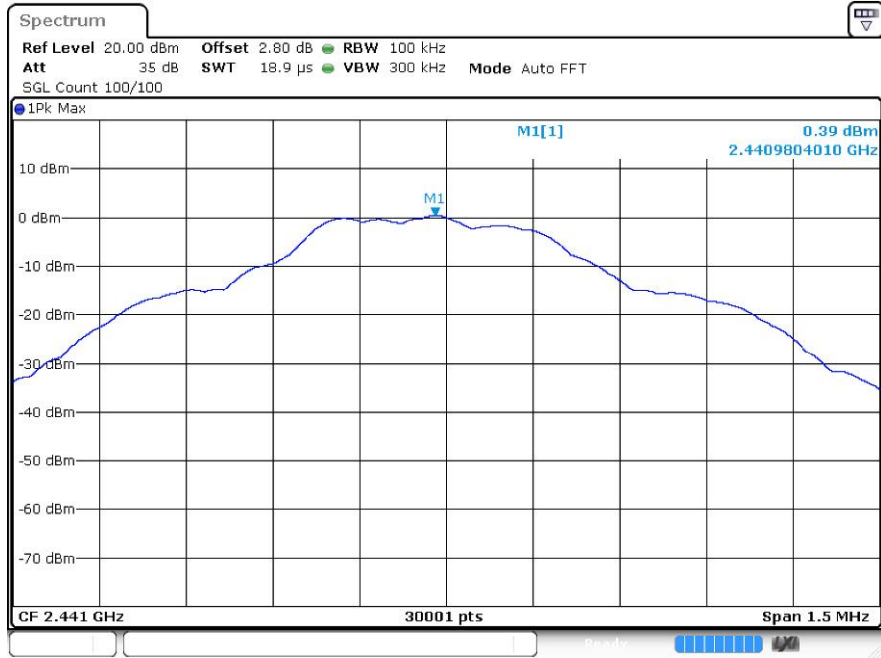
## 7.2 Test Graphs



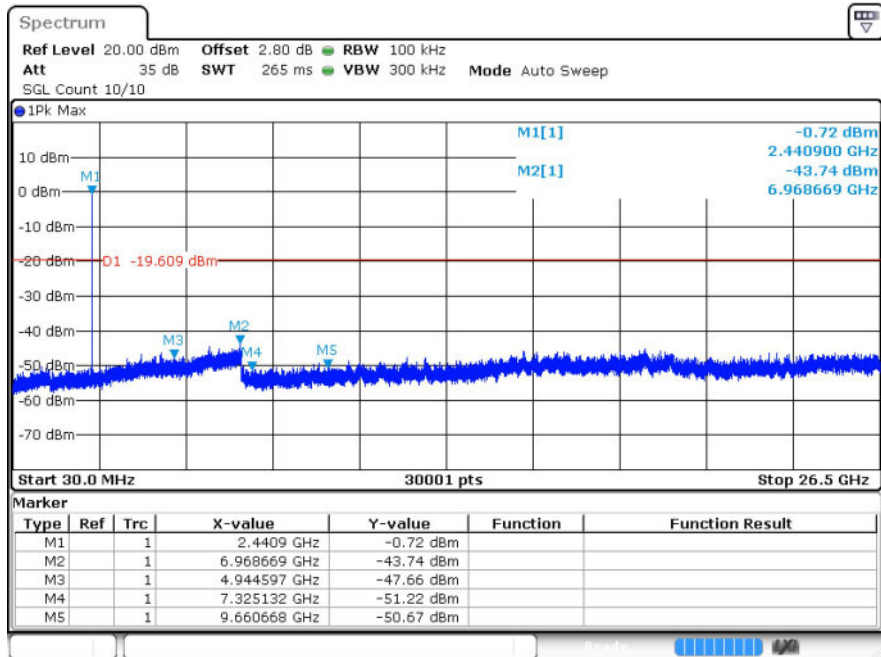


GFSK\_MCH\_Graphs

Pref

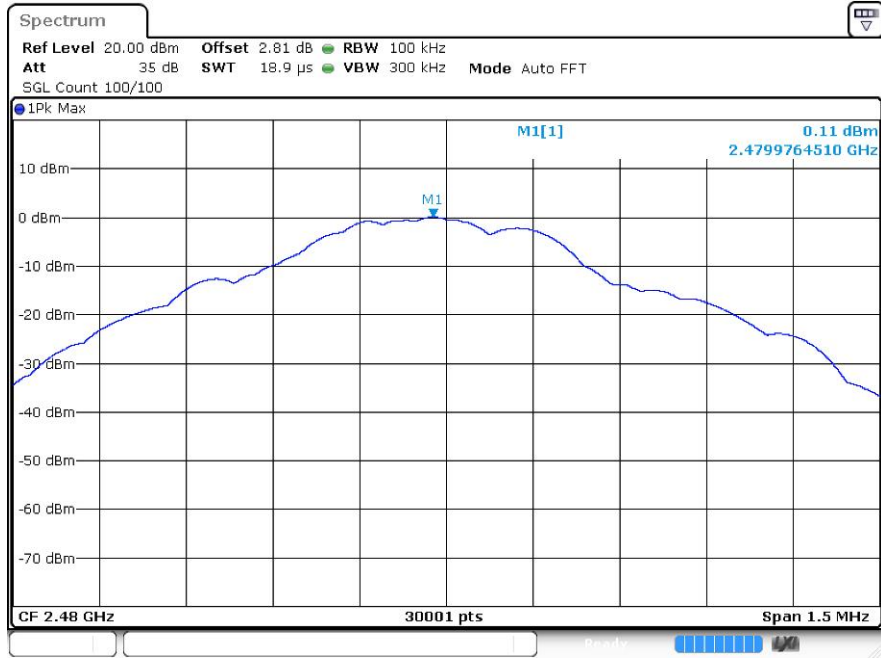


Puw

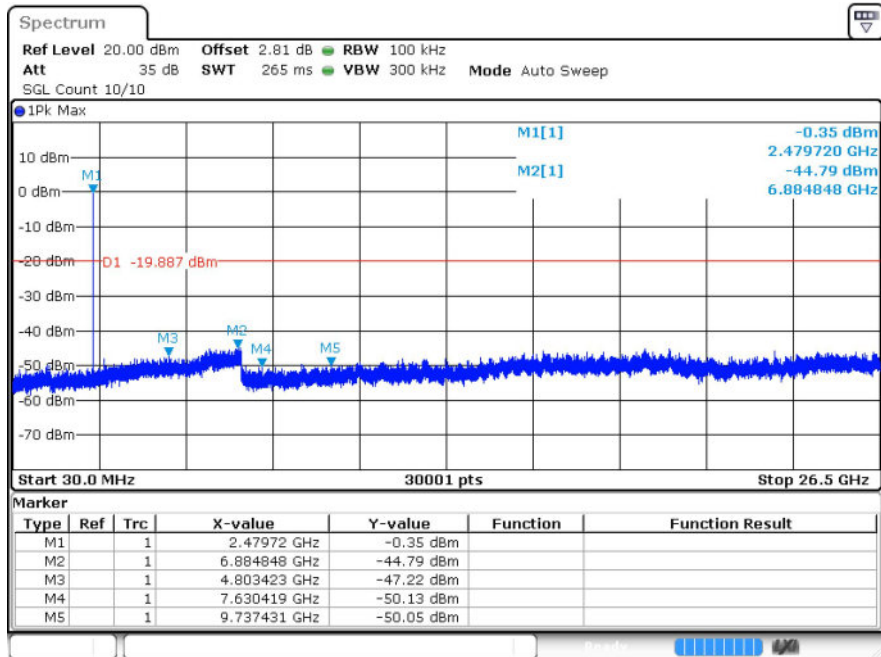


GFSK\_HCH\_Graphs

Pref

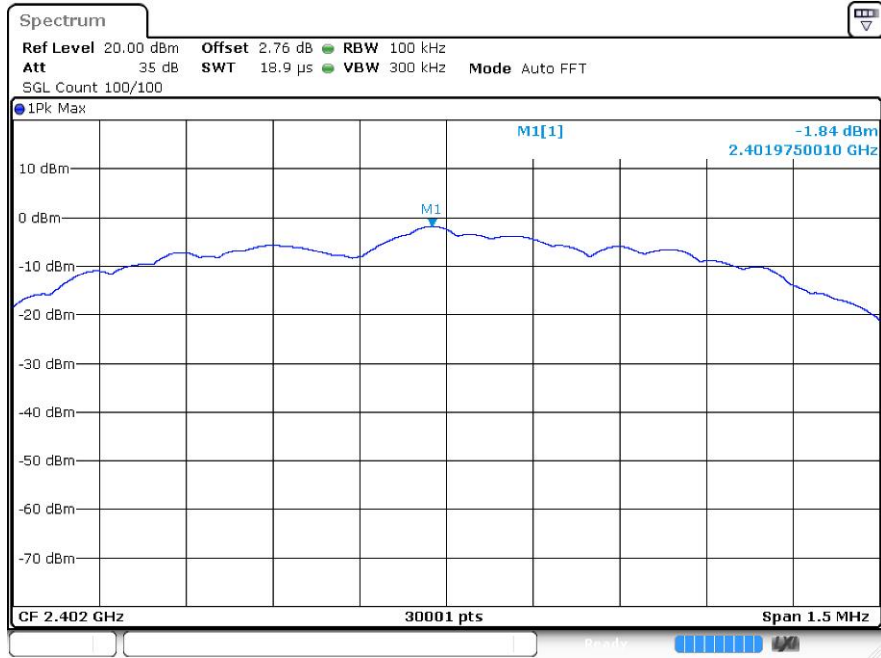


Puw

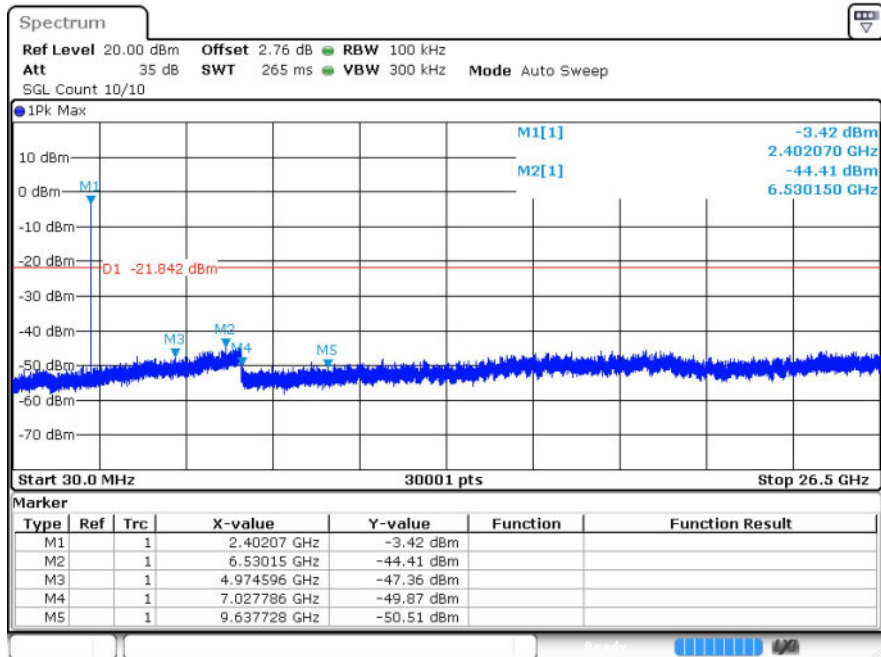


$\pi/4$ DQPSK\_LCH\_Graphs

Pref

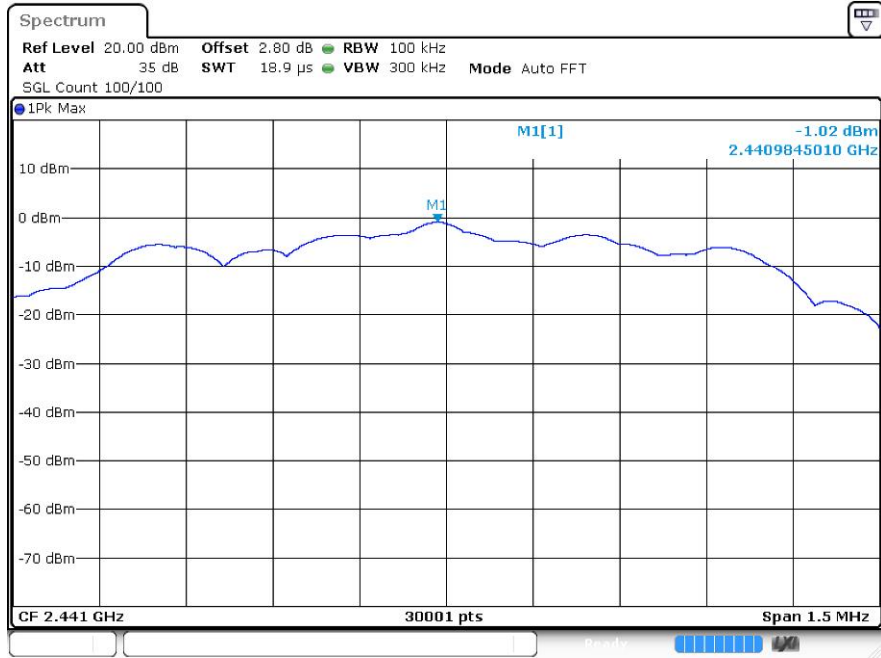


Puw

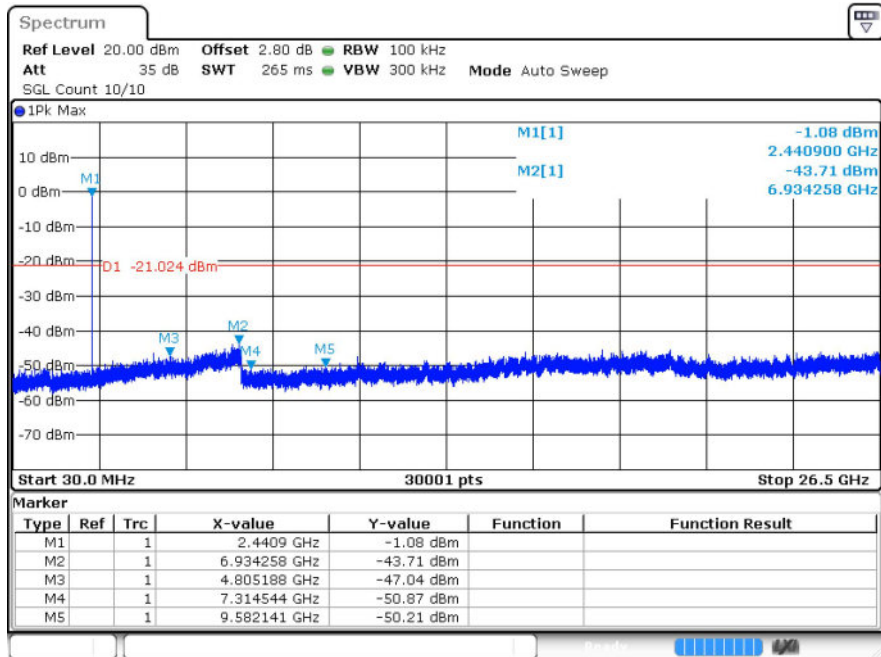


$\pi$ /4DQPSK\_MCH\_Graphs

Pref

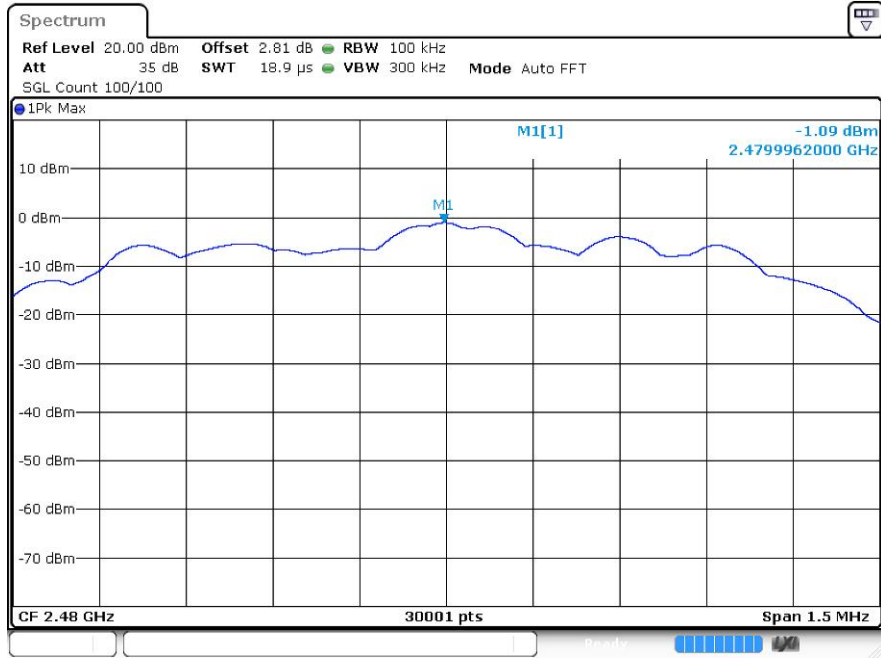


Puw



$\pi/4$ DQPSK\_HCH\_Graphs

Pref



Puw

