



Appendix A

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

Product Name: Wireless Headphones

Trade Mark: N/A

Test Model: Y91

Environmental Conditions

Temperature:	26.8°C
Relative Humidity:	52.3%
ATM Pressure:	101Kpa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung



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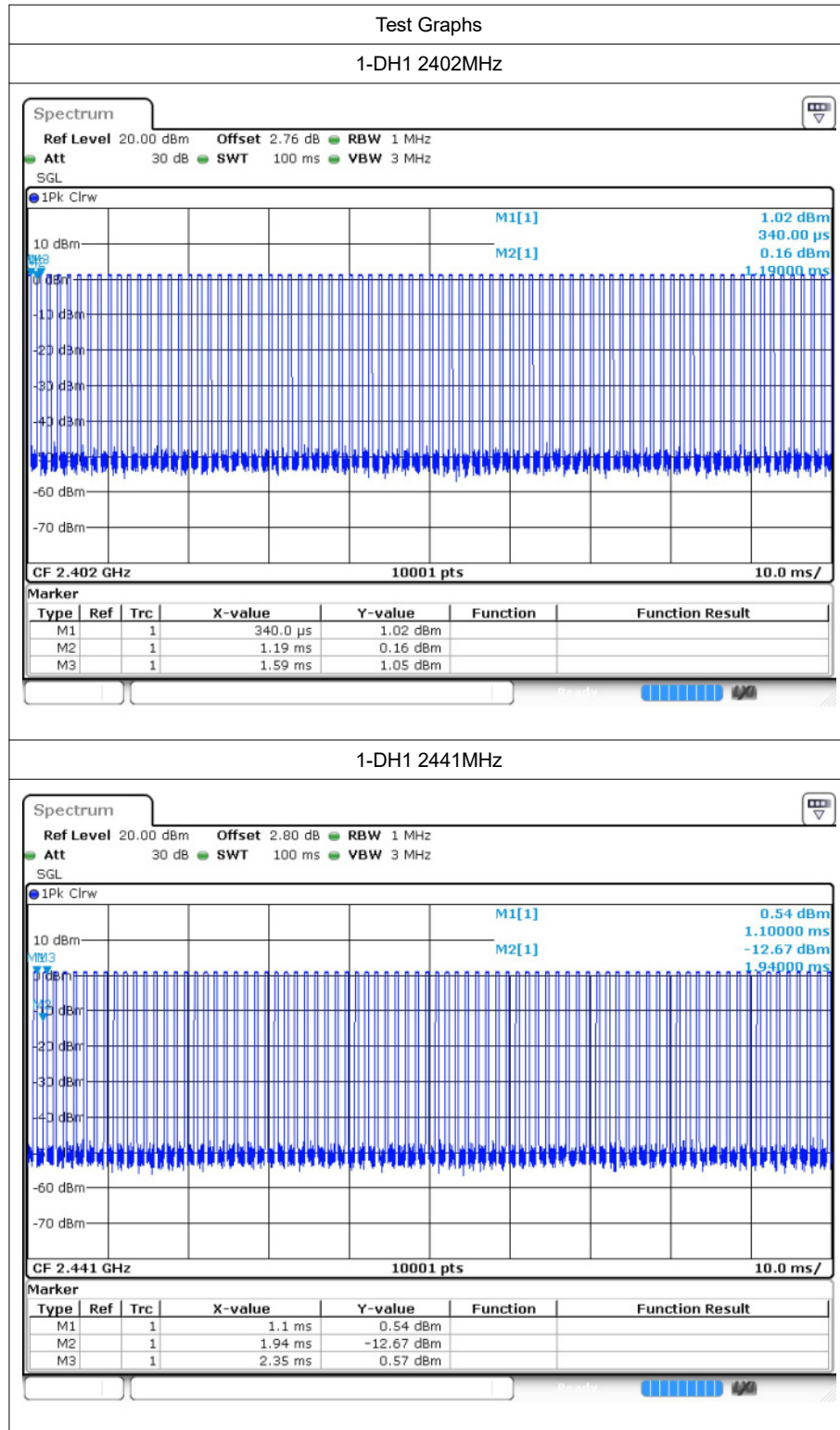
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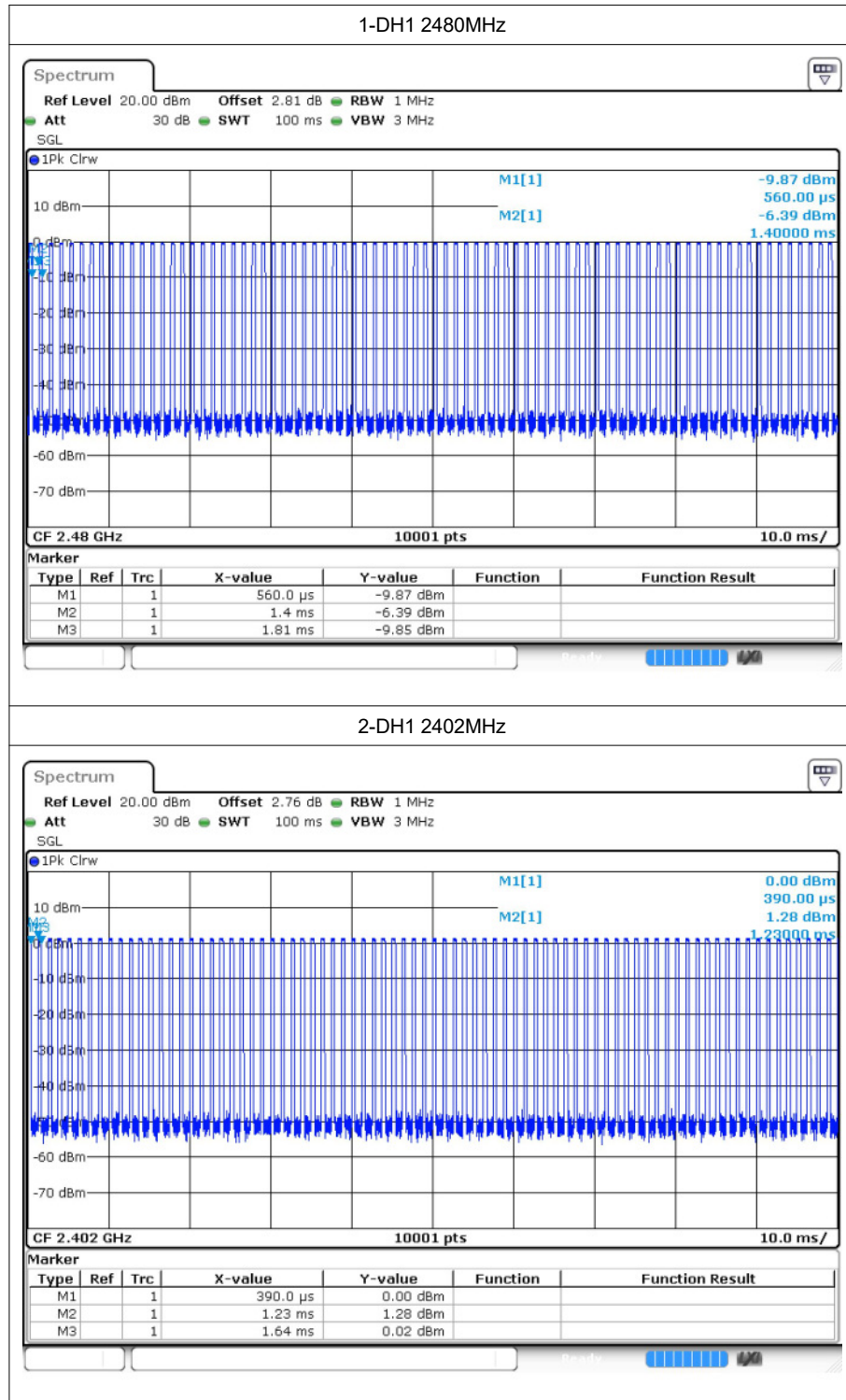
1 Duty Cycle

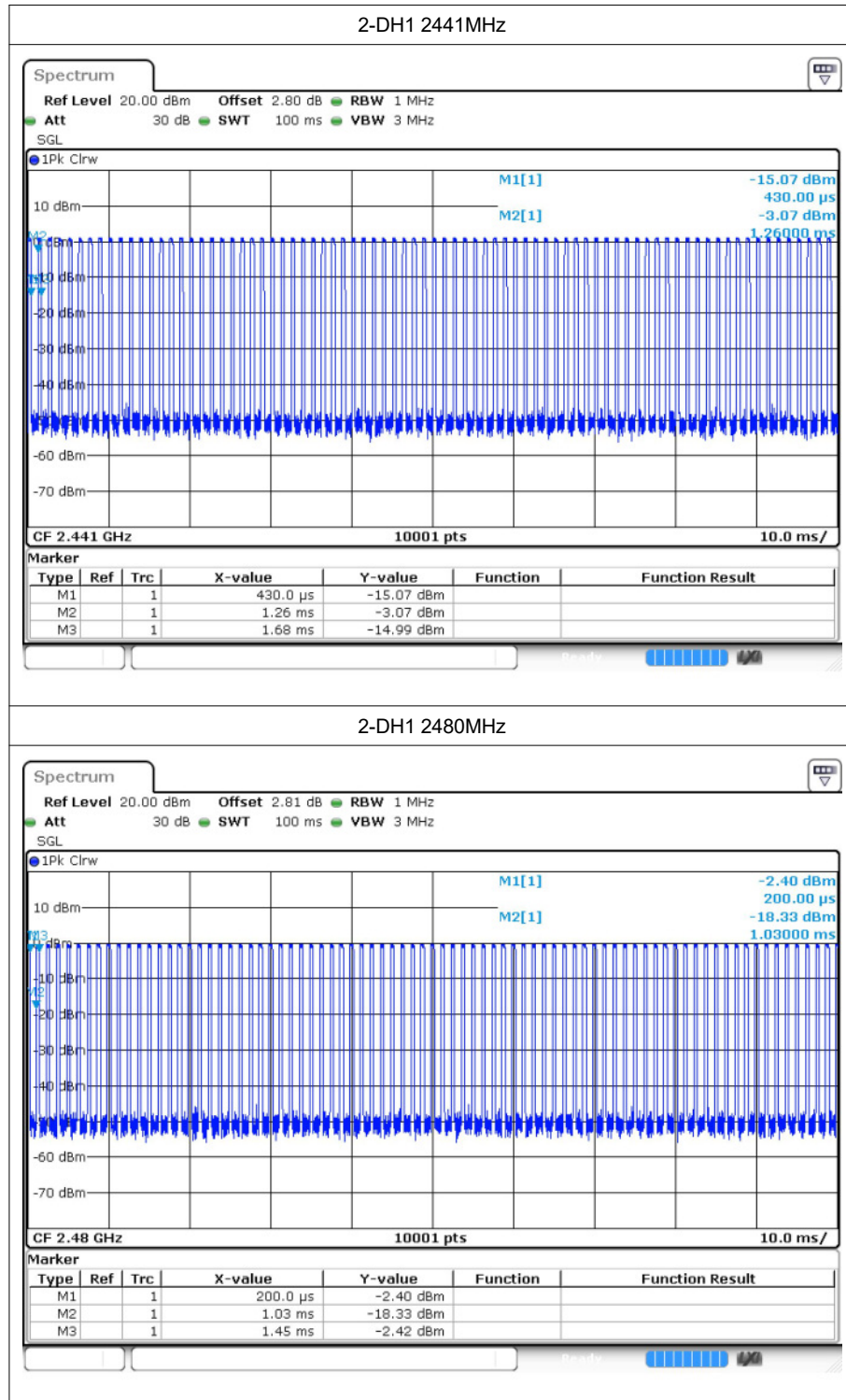
1.1 Test Result

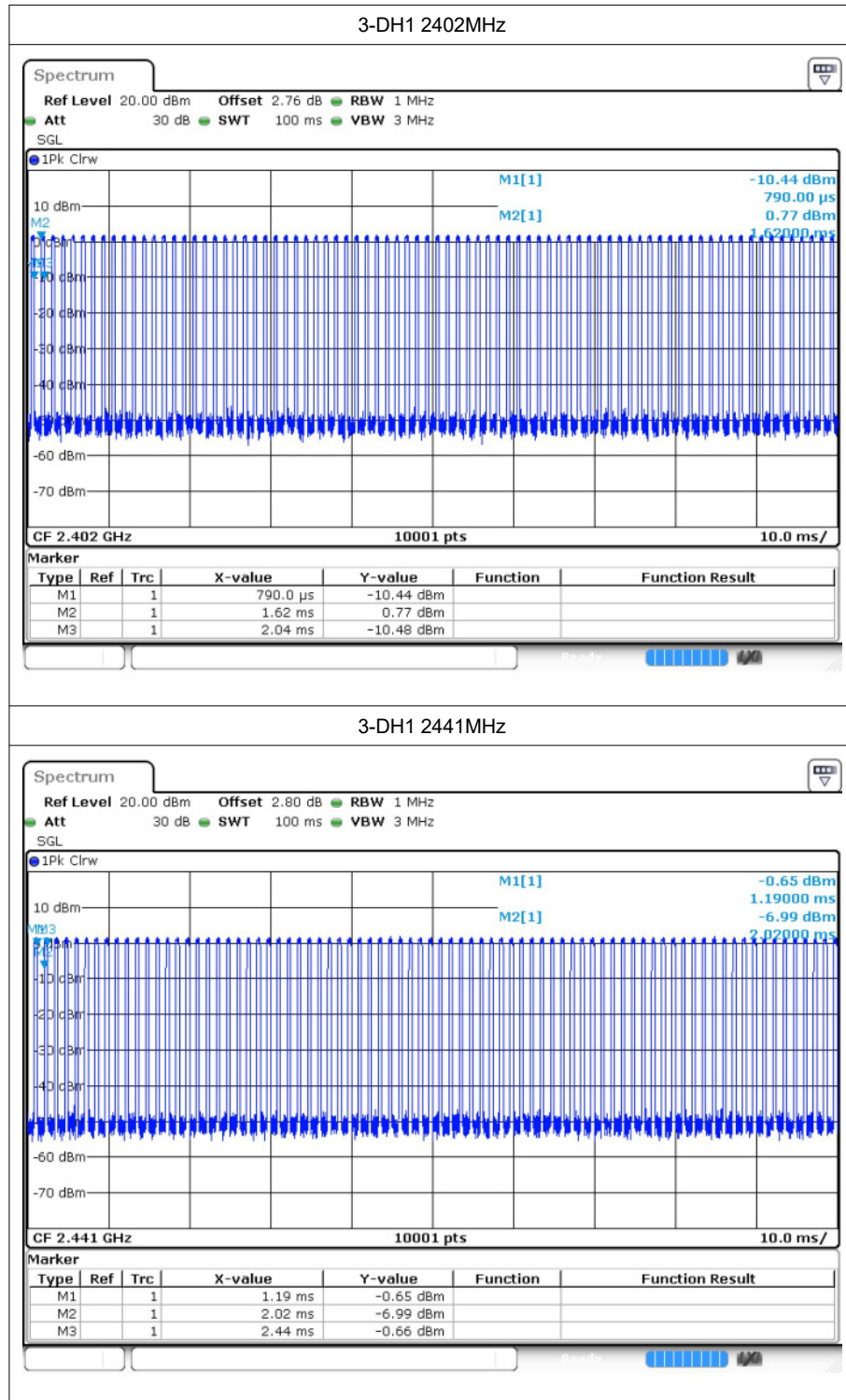
Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor	1/T (kHz)
1-DH1	2402	33.17	4.79	2.5
1-DH1	2441	33.6	4.74	2.44
1-DH1	2480	33.6	4.74	2.44
2-DH1	2402	33.61	4.74	2.44
2-DH1	2441	34.4	4.63	2.38
2-DH1	2480	34.41	4.63	2.38
3-DH1	2402	34.4	4.63	2.38
3-DH1	2441	34.4	4.63	2.38
3-DH1	2480	34.4	4.63	2.38

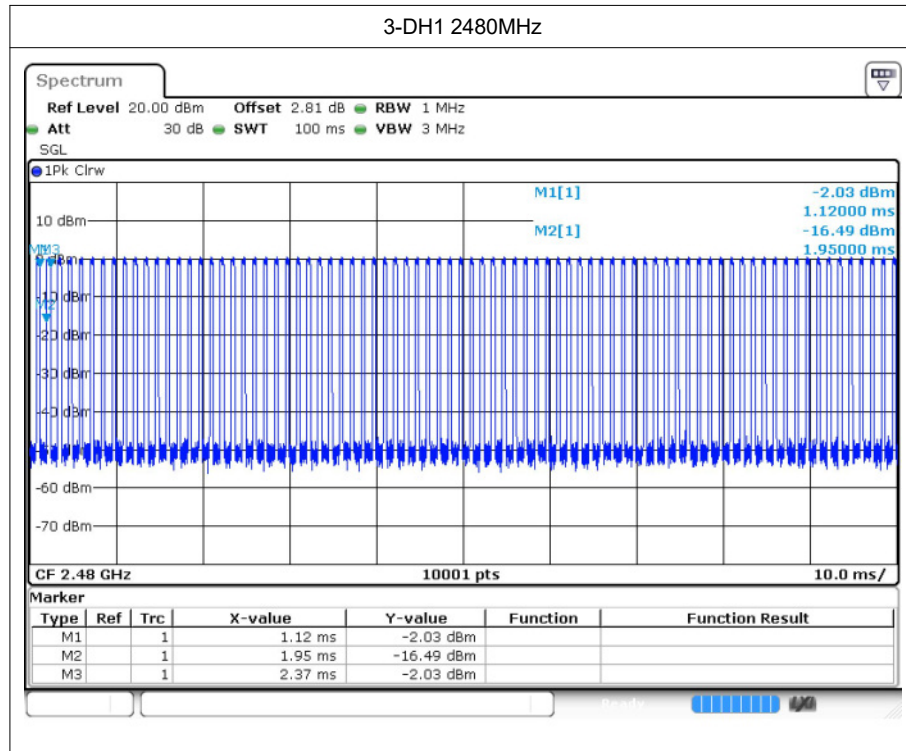
1.2 Test Graphs









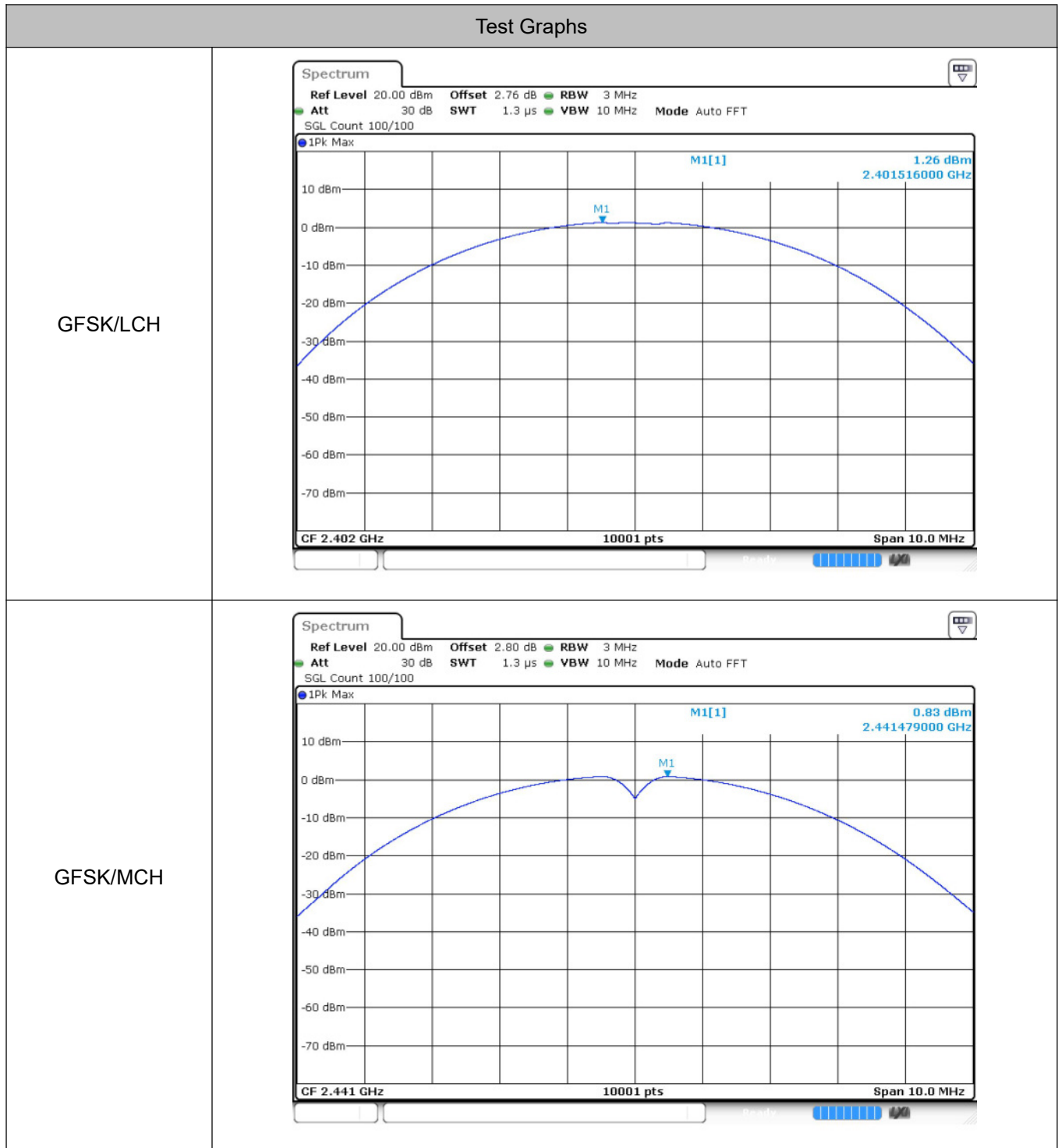


2 Maximum Conducted Peak Output Power

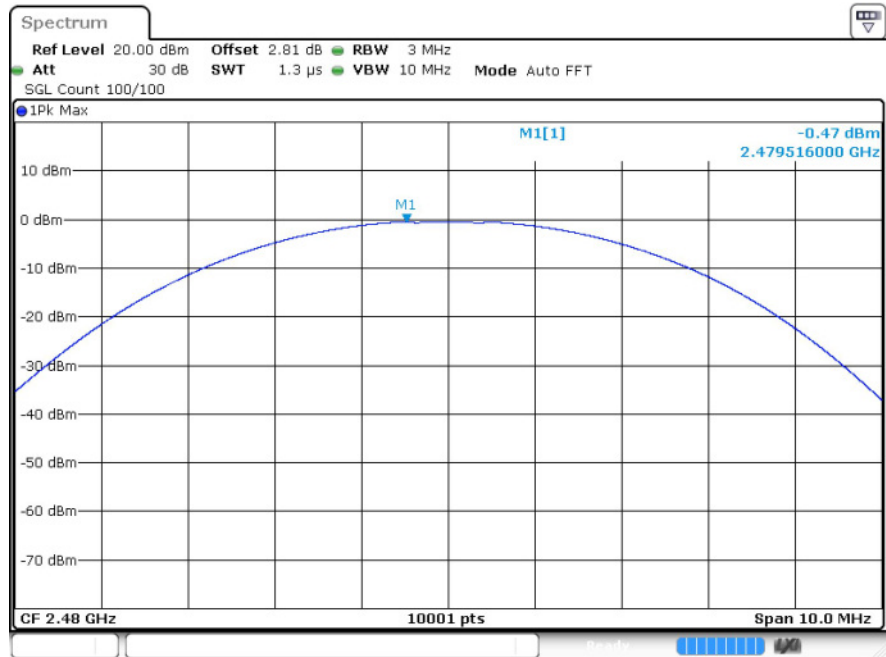
2.1 Test Result

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	1.26	21	Pass
	MCH	0.83	21	Pass
	HCH	-0.47	21	Pass
$\pi/4$ DQPSK	LCH	1.29	21	Pass
	MCH	1.23	21	Pass
	HCH	-0.17	21	Pass
8DPSK	LCH	1.74	21	Pass
	MCH	1.22	21	Pass
	HCH	0.07	21	Pass

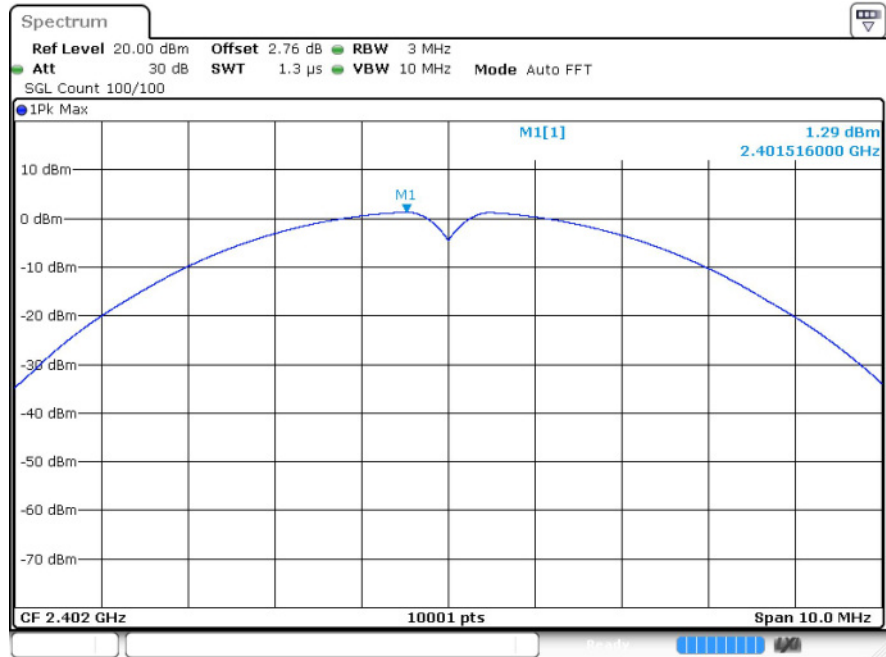
2.2 Test Graphs



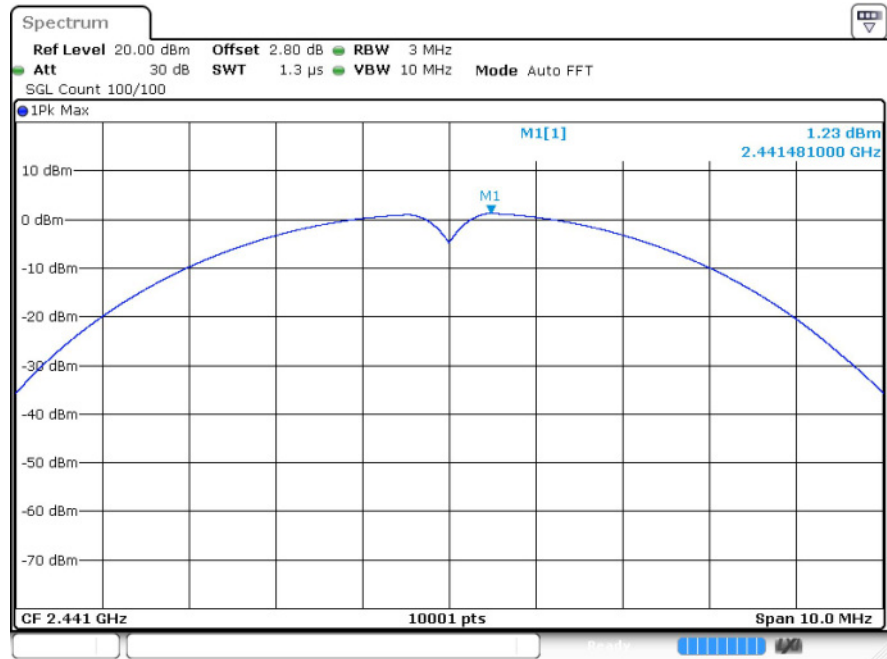
GFSK/HCH



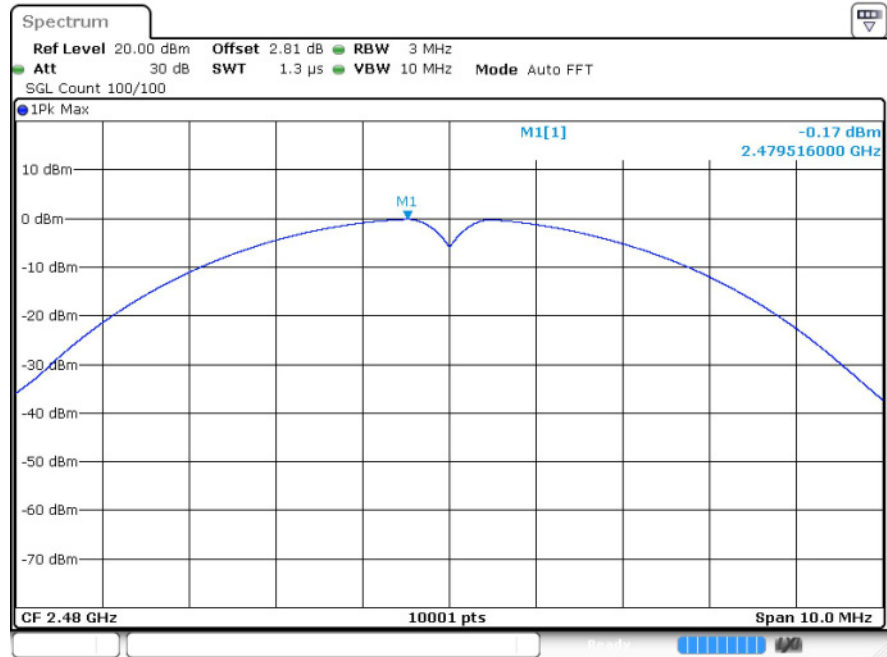
$\pi/4$ DQPSK/LCH



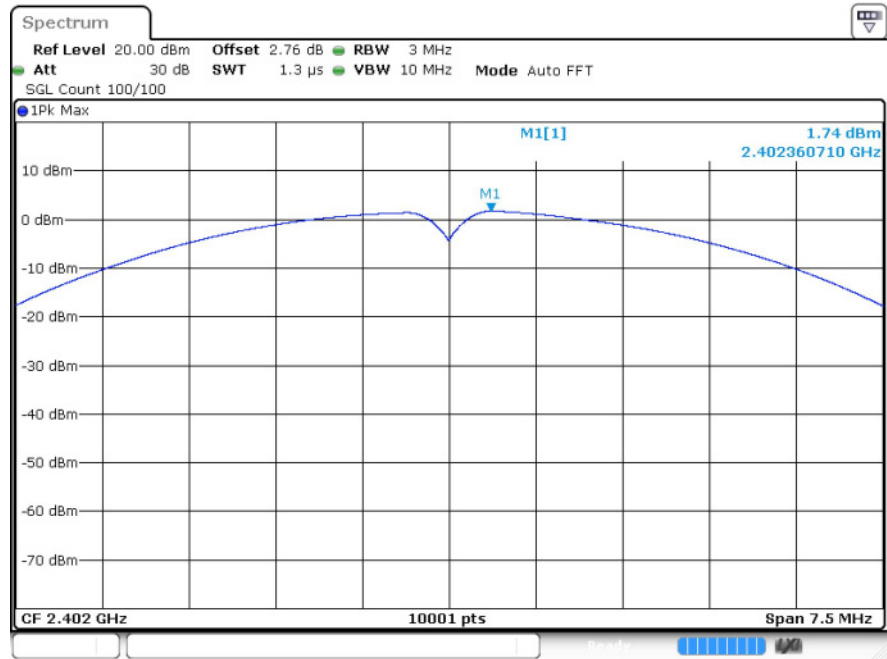
$\pi/4$ DQPSK/MCH



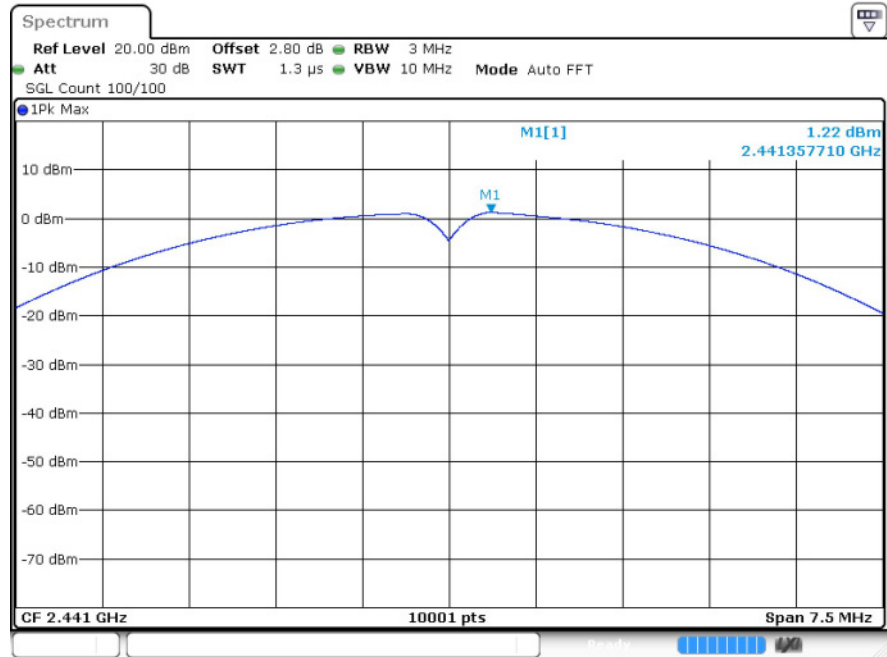
$\pi/4$ DQPSK/HCH



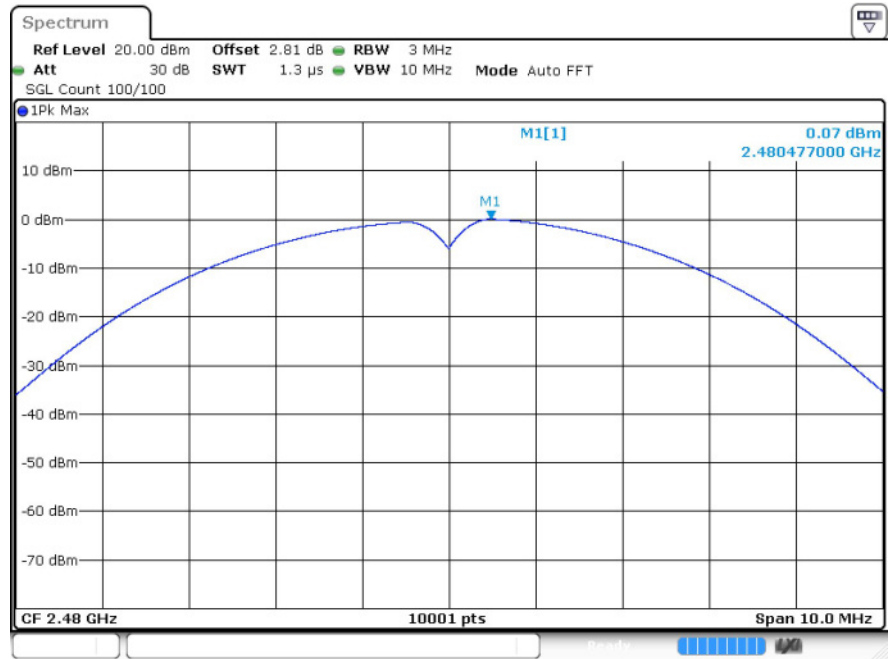
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

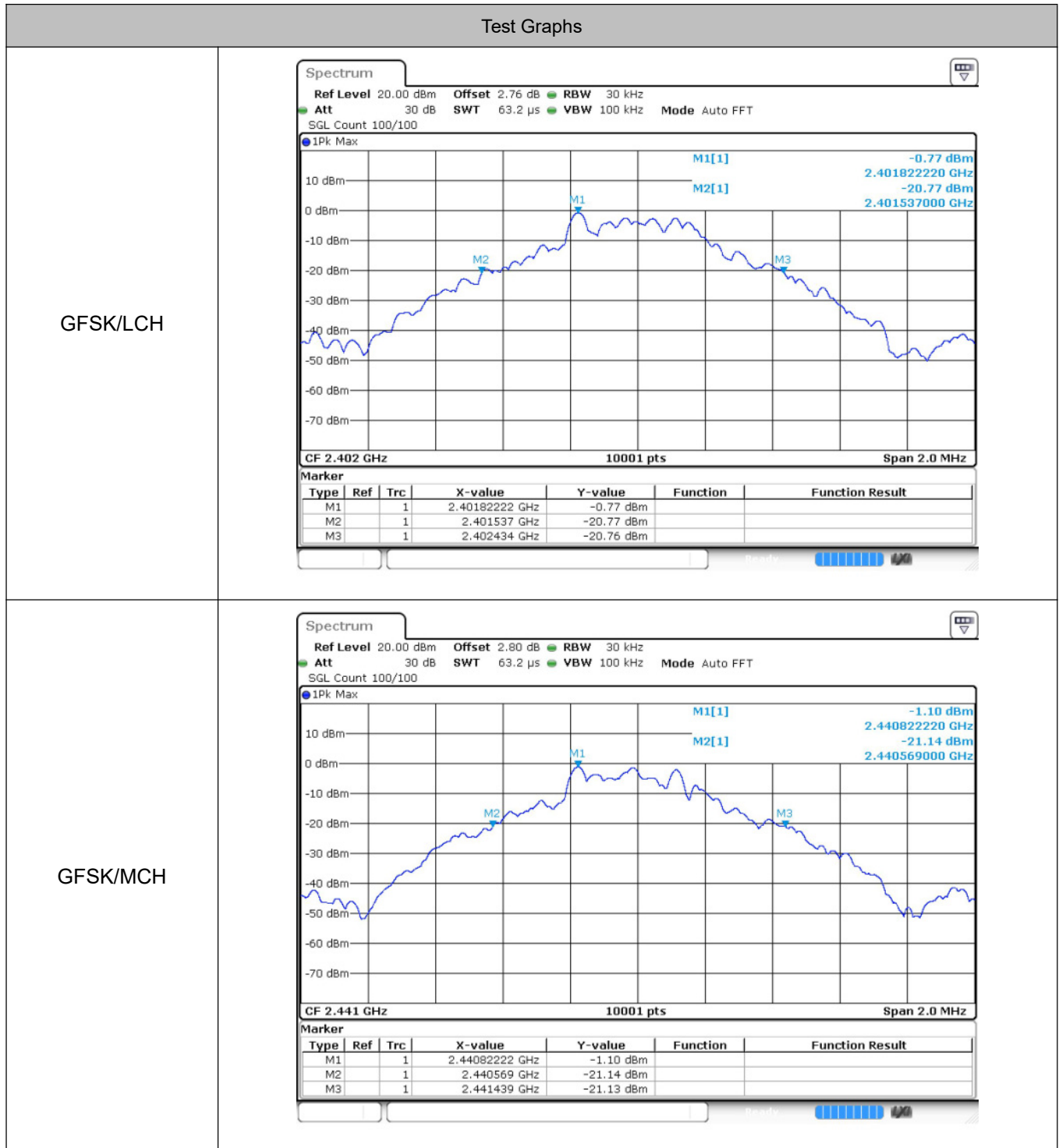


3 20dB Bandwidth

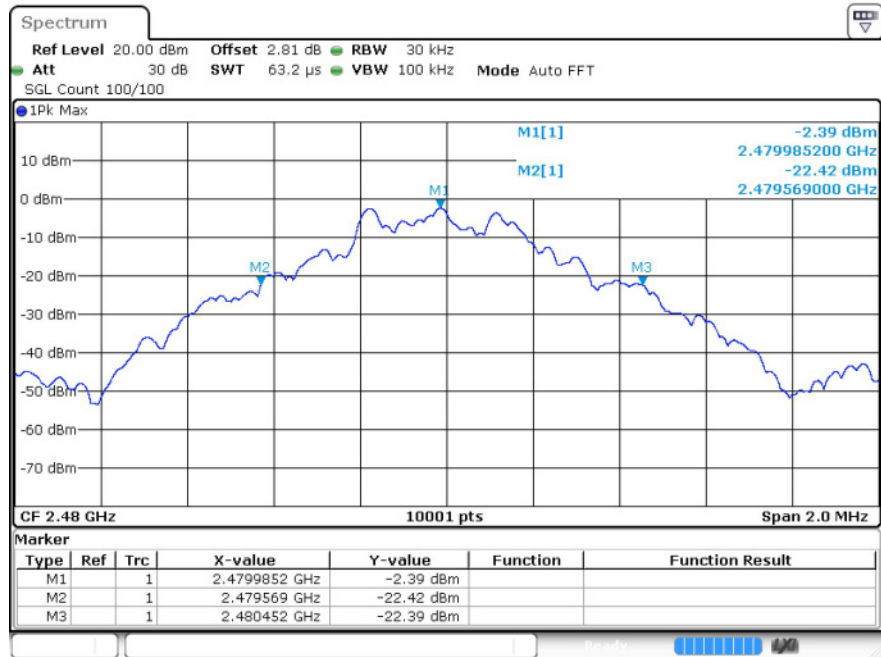
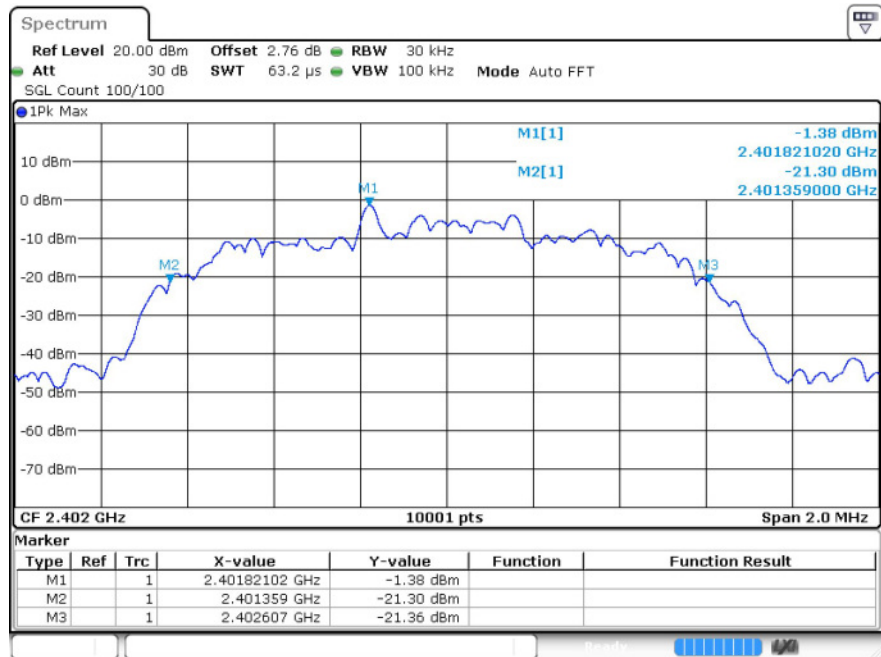
3.1 Test Result

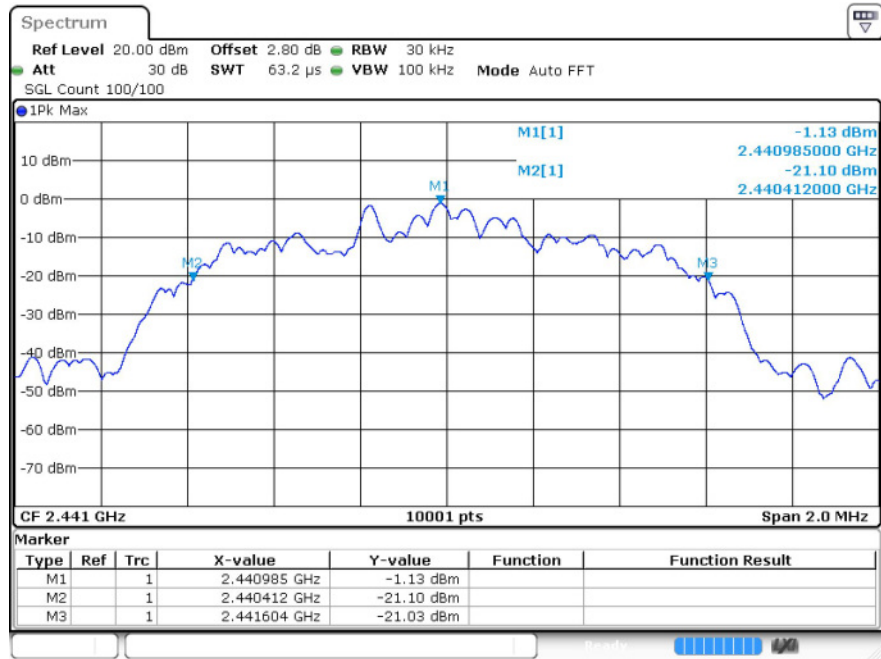
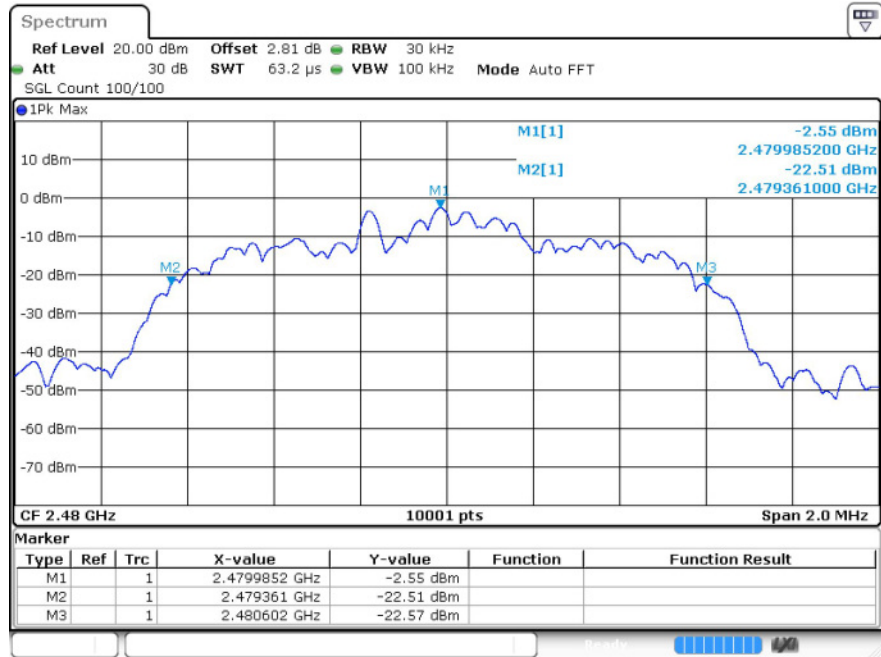
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.897	Not Specified	Pass
	MCH	0.869	Not Specified	Pass
	HCH	0.883	Not Specified	Pass
$\pi/4$ DQPSK	LCH	1.248	Not Specified	Pass
	MCH	1.193	Not Specified	Pass
	HCH	1.241	Not Specified	Pass
8DPSK	LCH	1.199	Not Specified	Pass
	MCH	1.248	Not Specified	Pass
	HCH	1.207	Not Specified	Pass

3.2 Test Graphs

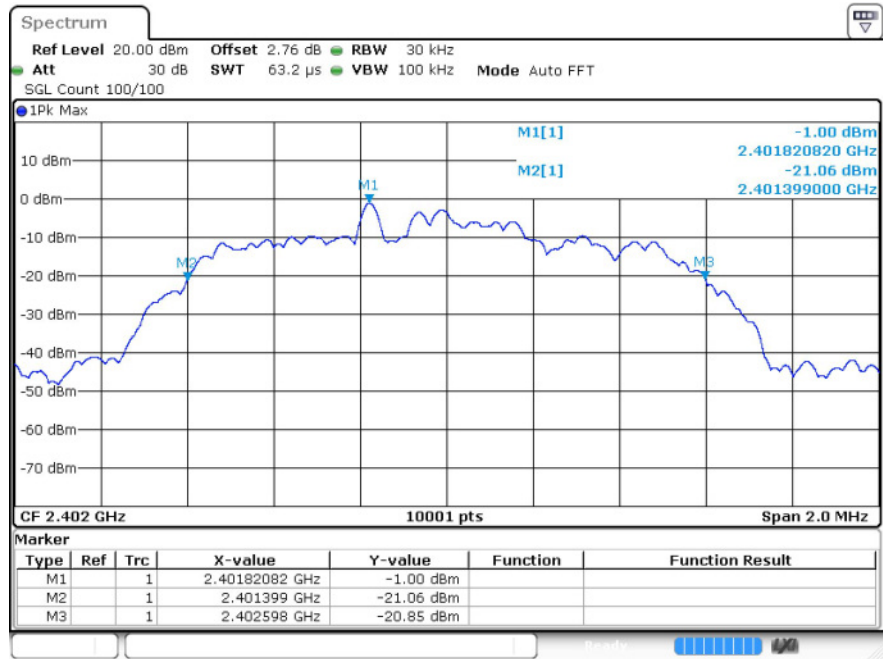


GFSK/HCH

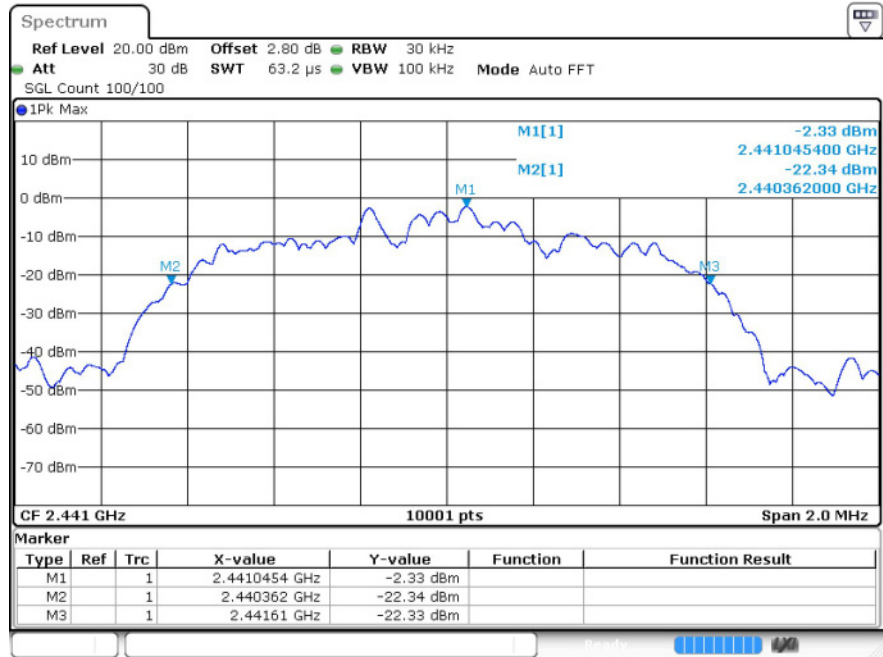

 $\pi/4$ DQPSK/LCH


$\pi/4$ DQPSK/MCH

 $\pi/4$ DQPSK/HCH


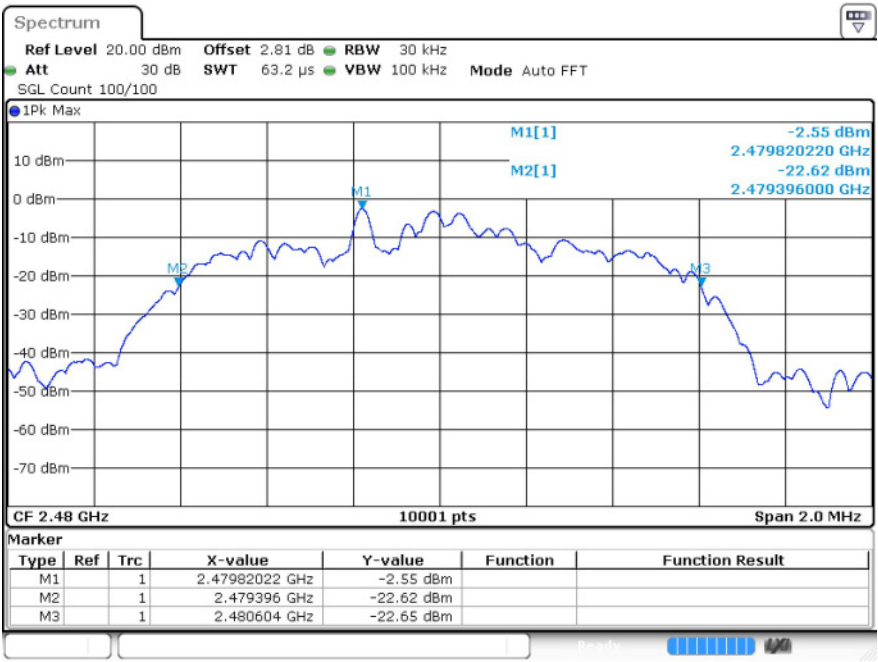
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH



4 Carrier Frequency Separation

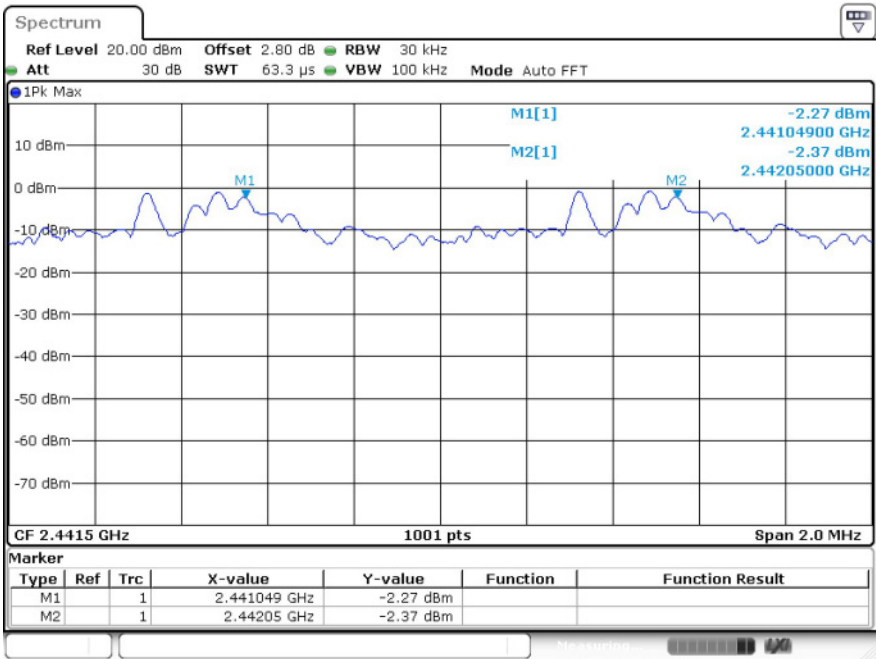
4.1 Test Result

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	1.002	0.579	Pass
$\pi/4$ DQPSK	MCH	1.002	0.795	Pass
8DPSK	MCH	1.001	0.832	Pass

4.2 Test Graphs



8DPSK/MCH

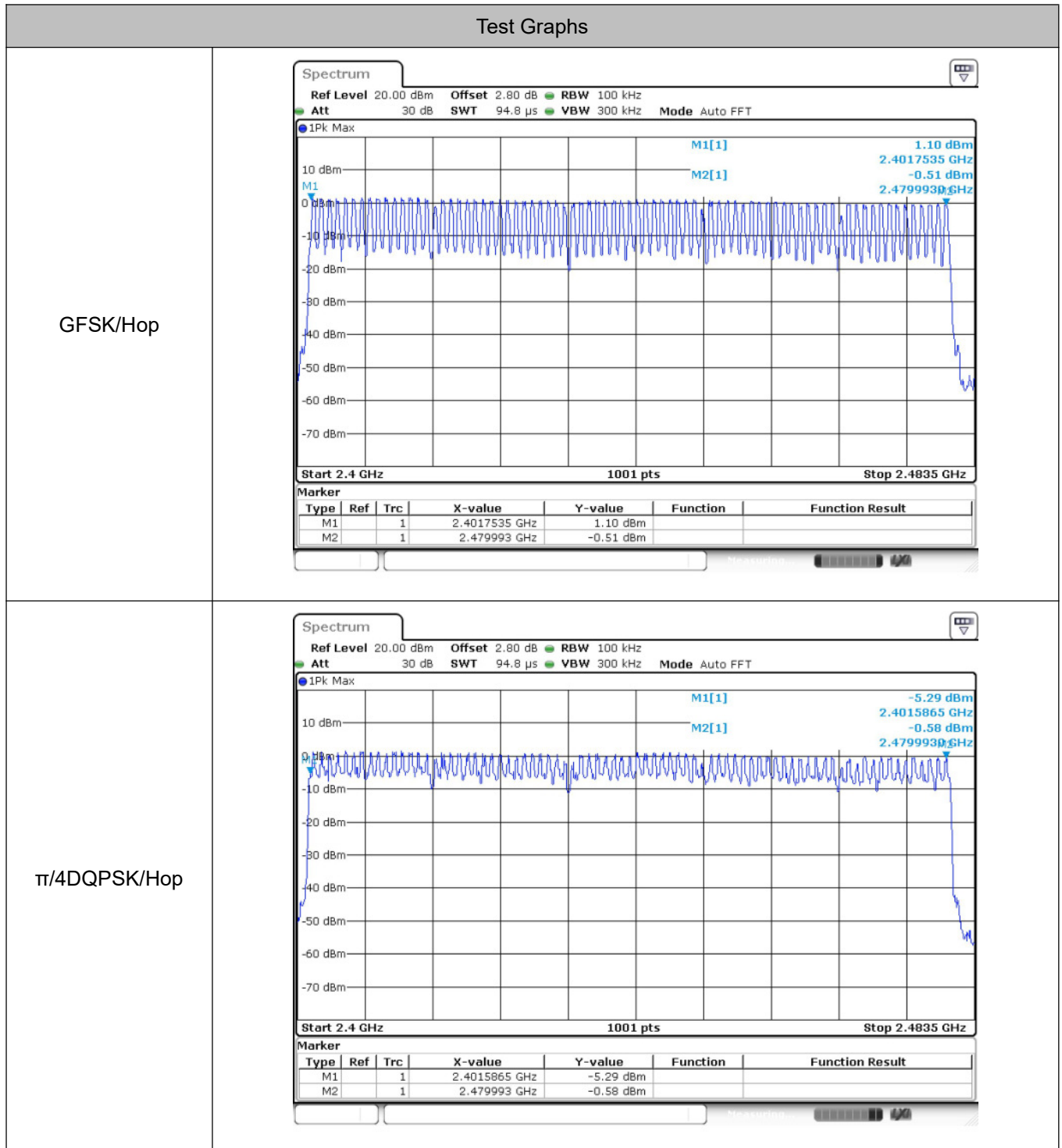


5 Hopping Channel Number

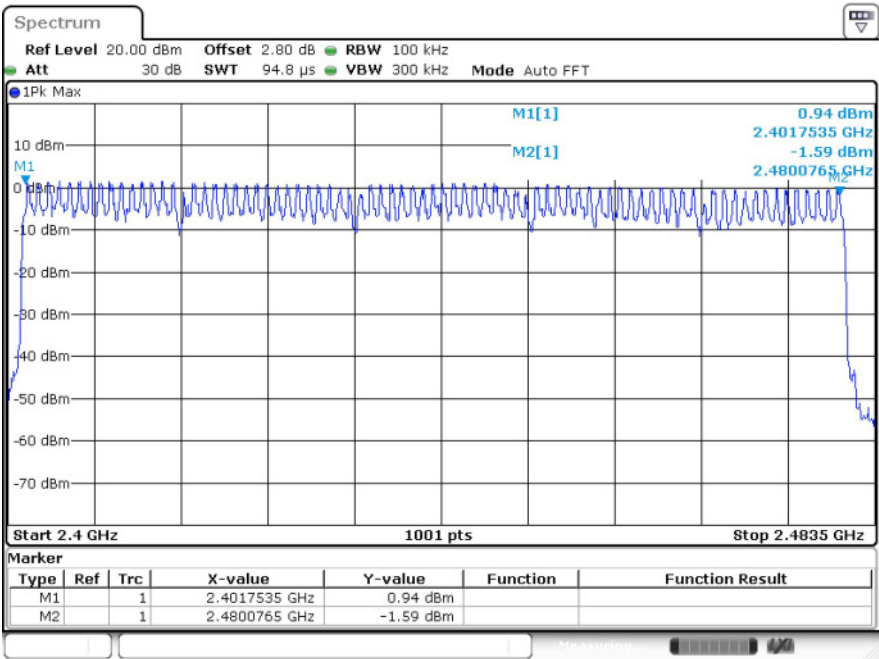
5.1 Test Result

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

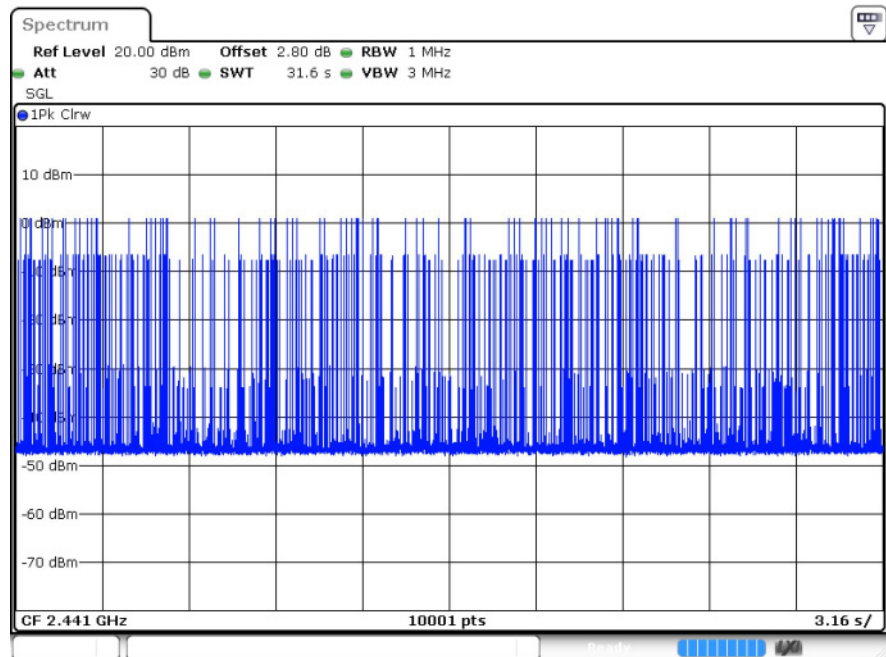
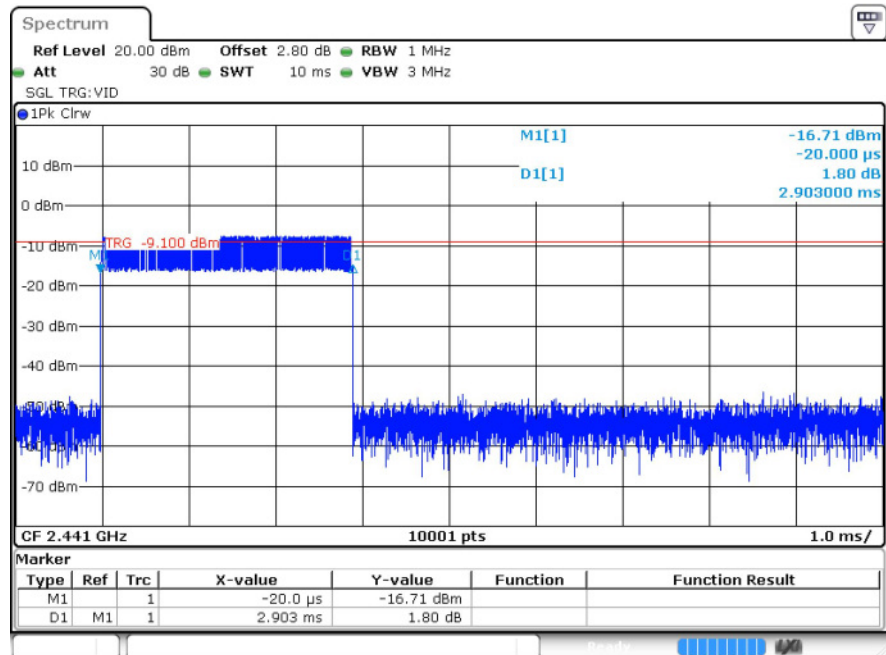
6.1 Test Result

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Limit [s]	Verdict
GFSK	DH5	MCH	2.903	99	287.397	0.4	Pass
$\pi/4$ DQPSK	2DH5	MCH	2.903	103	299.009	0.4	Pass
8DPSK	3DH5	MCH	2.911	98	285.278	0.4	Pass

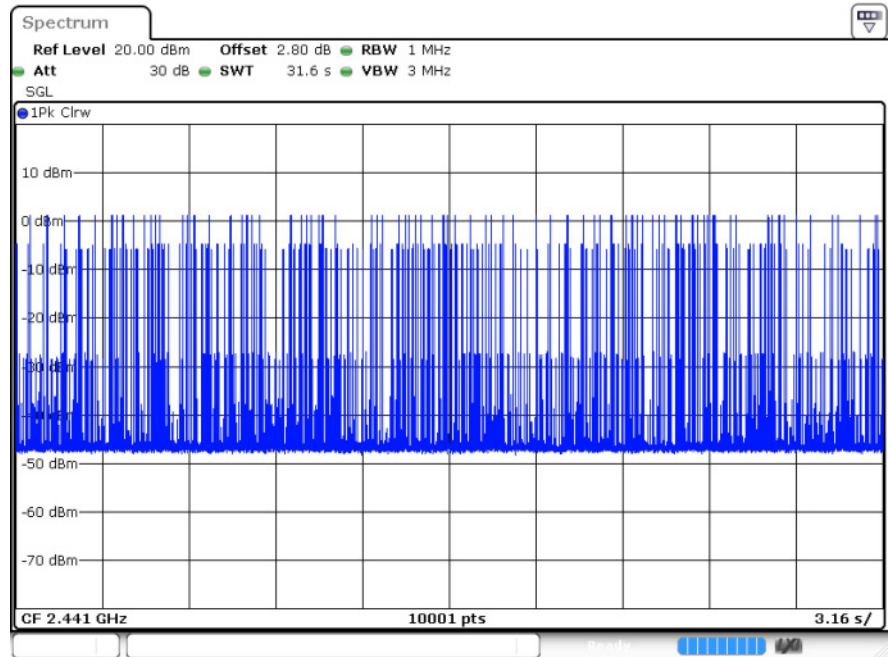
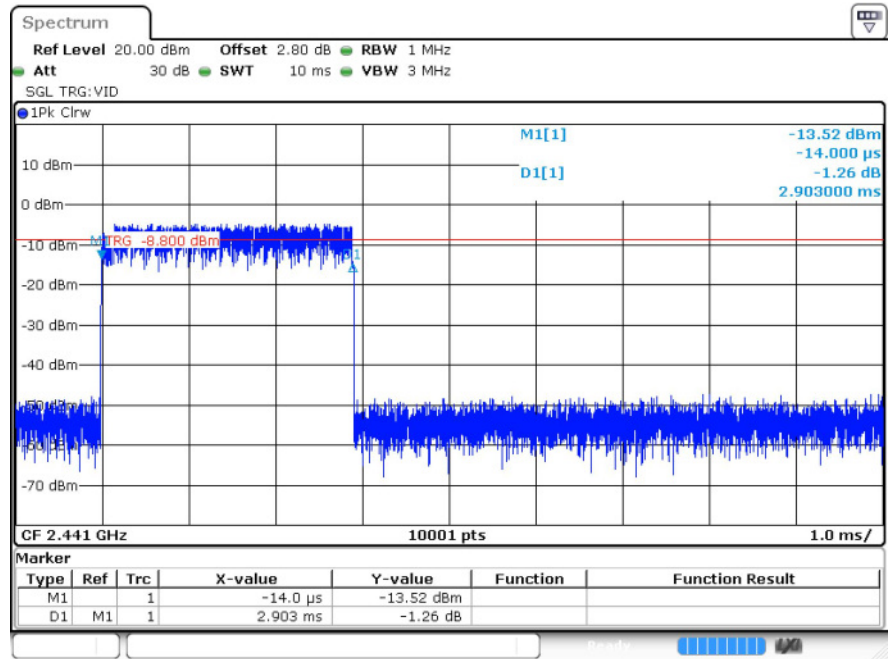
6.2 Test Graphs

Test Graphs

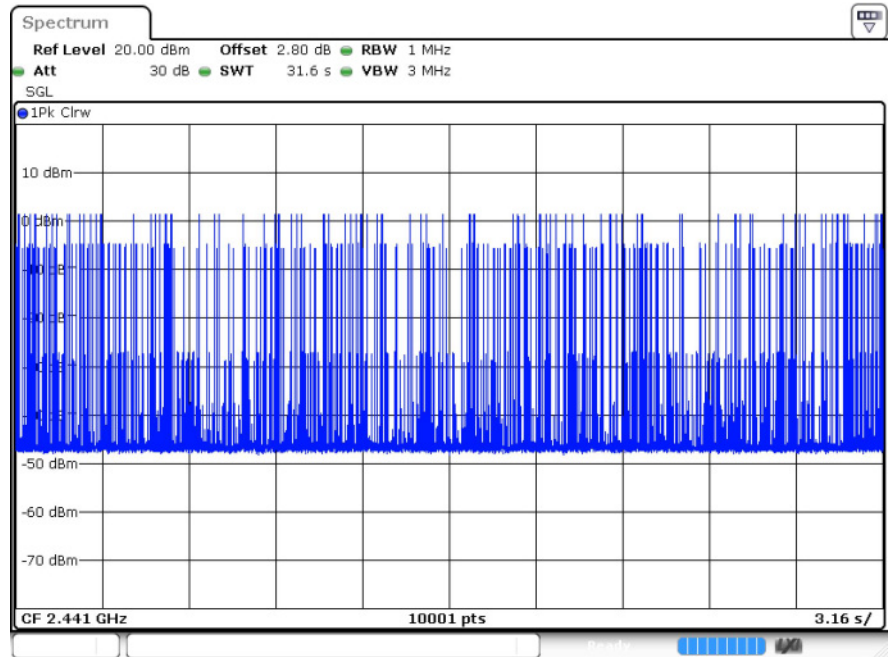
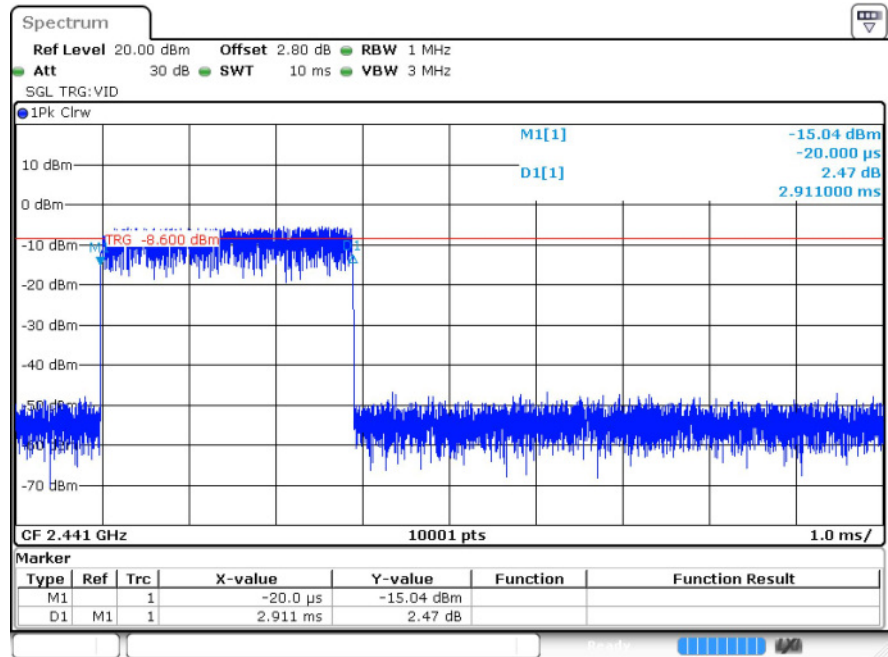
GFSK_DH5/MCH



$\pi/4$ DQPSK
_2DH5/MCH



8DPSK_3DH5/MCH



7 RF Conducted Spurious Emissions

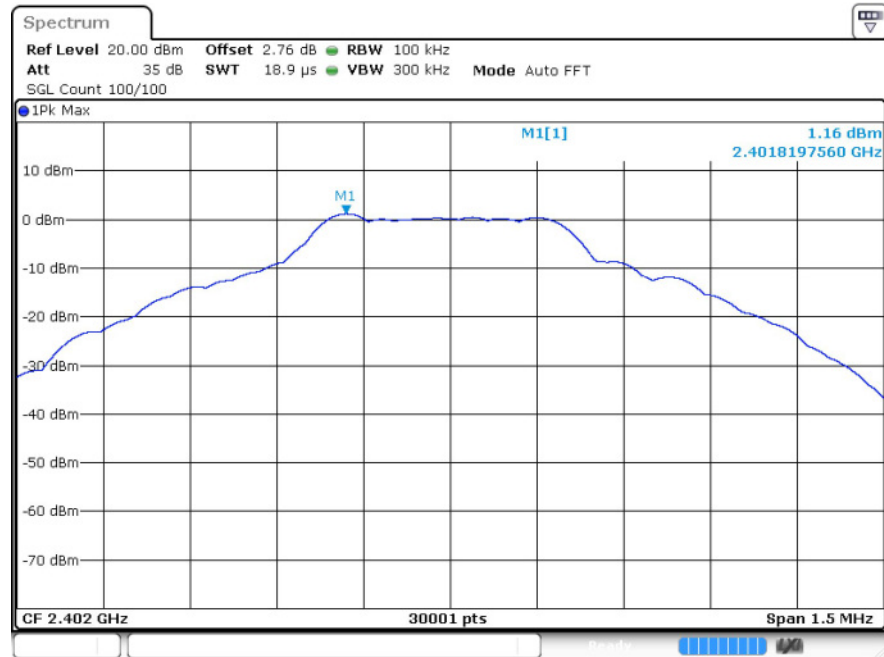
7.1 Test Result

Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-42.8	-20	Pass
	MCH	-41.36	-20	Pass
	HCH	-40.97	-20	Pass
$\pi/4$ DQPSK	LCH	-42.15	-20	Pass
	MCH	-41.82	-20	Pass
	HCH	-40.32	-20	Pass
8DPSK	LCH	-42.72	-20	Pass
	MCH	-41.42	-20	Pass
	HCH	-39.83	-20	Pass

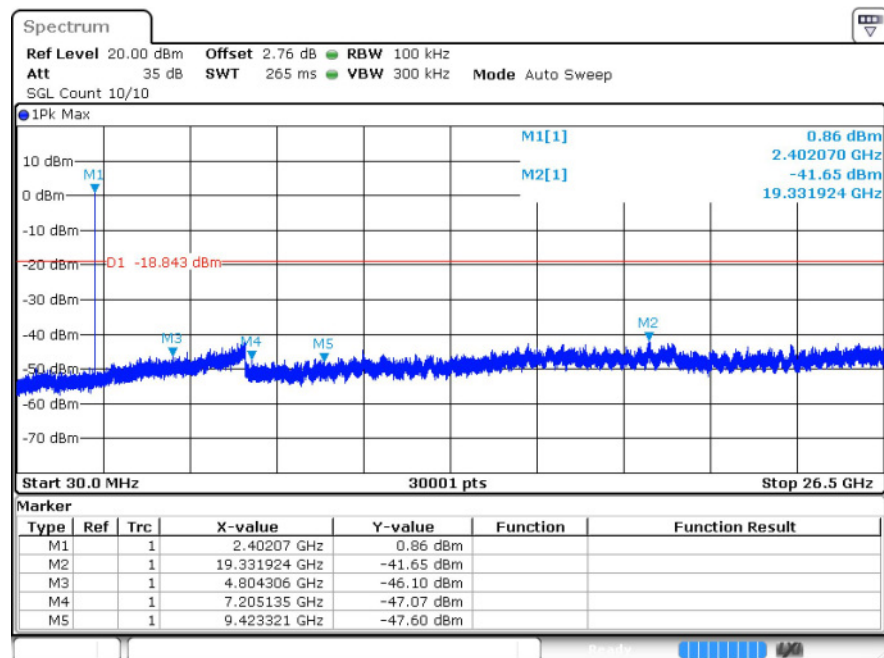
7.2 Test Graphs

GFSK_LCH_Graphs

Pref

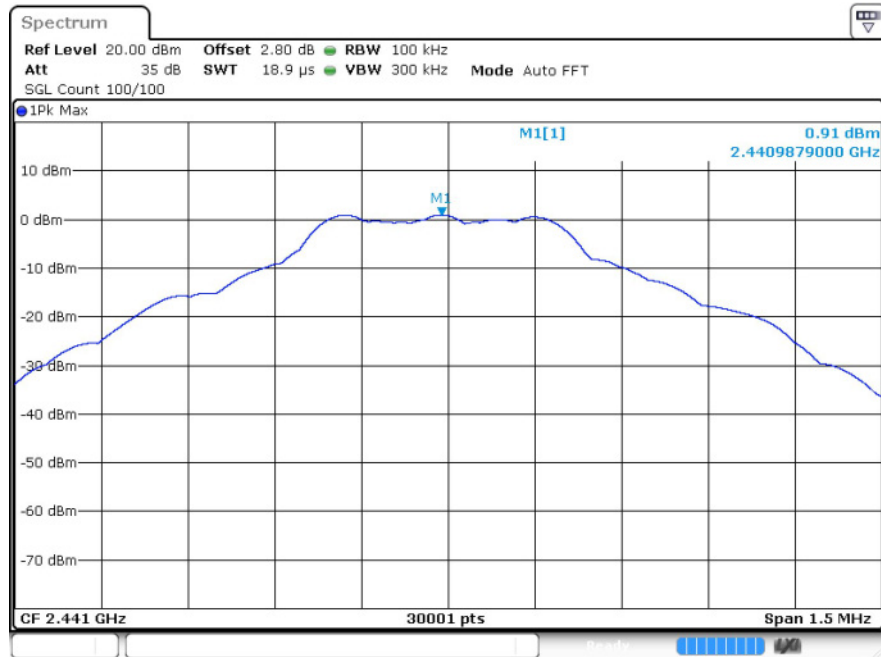


Puw

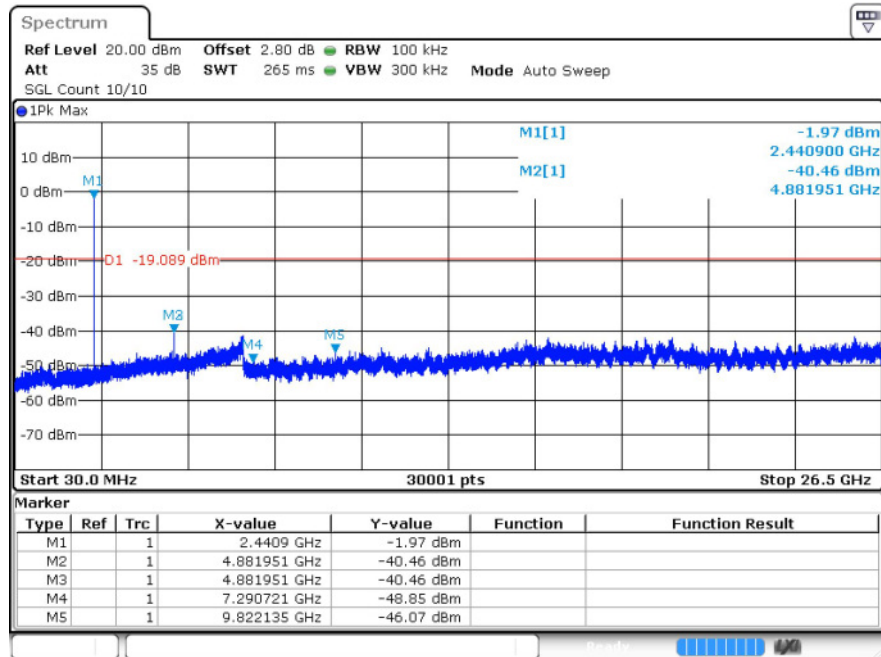


GFSK_MCH_Graphs

Pref

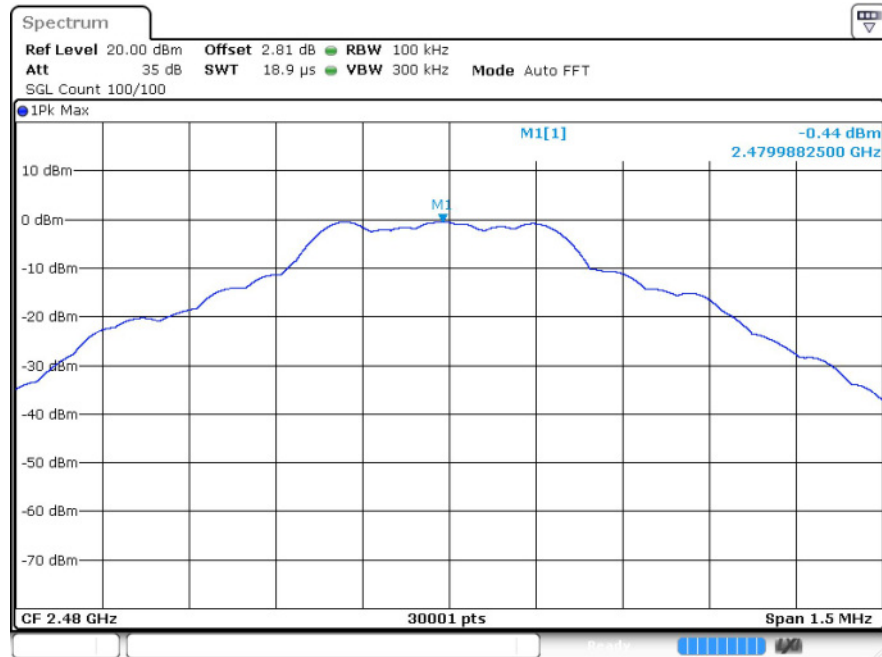


Puw

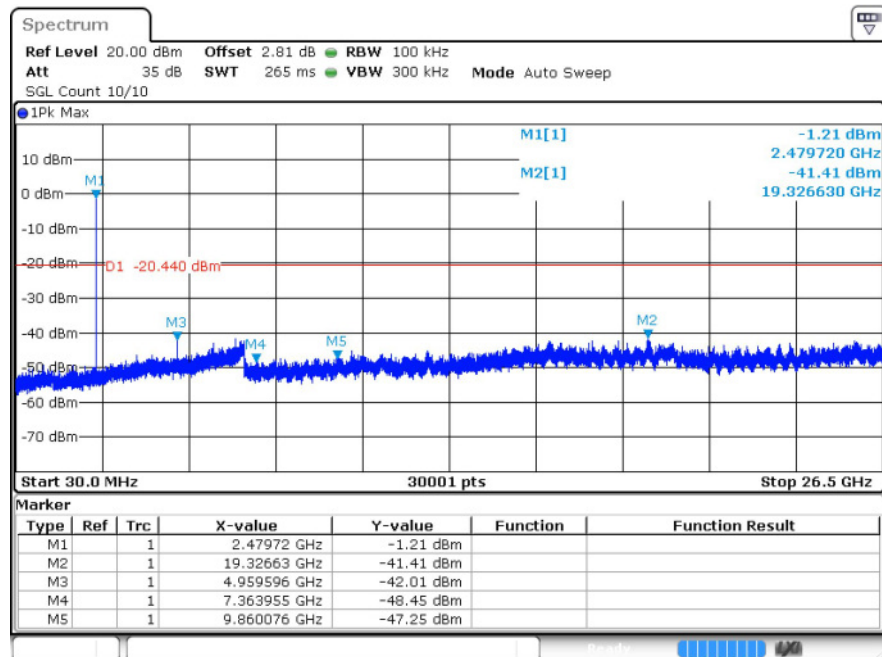


GFSK_HCH_Graphs

Pref

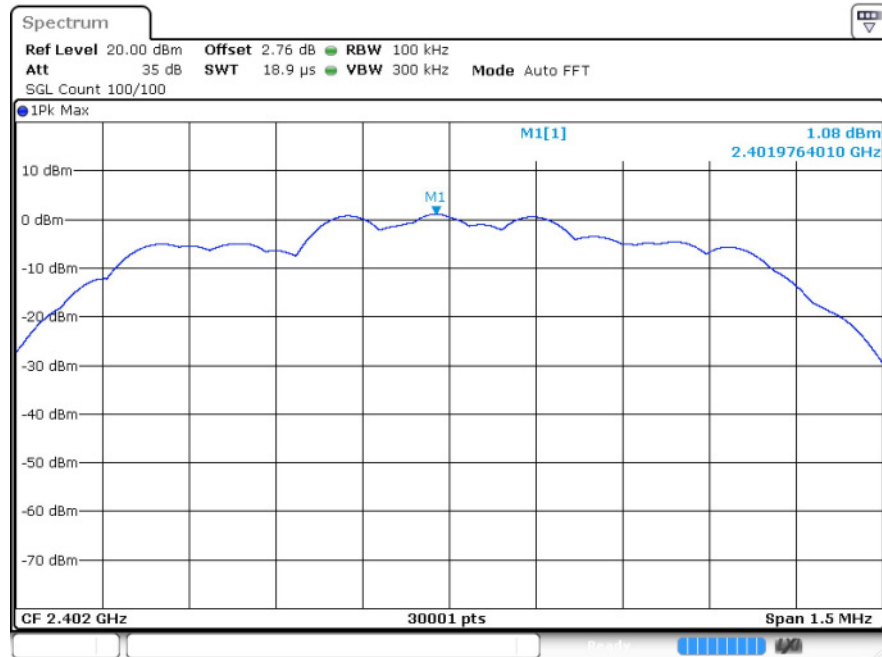


Puw

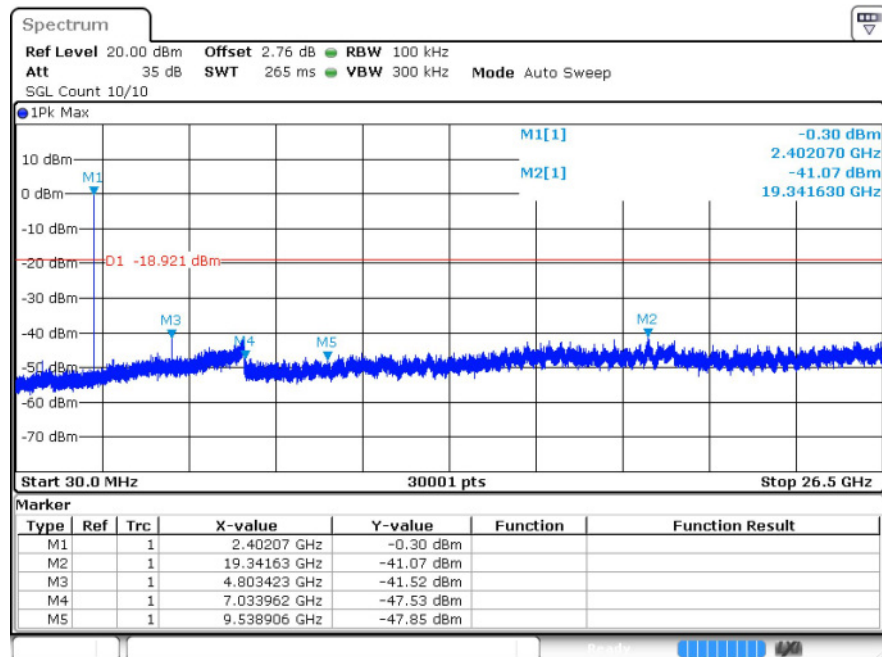


$\pi/4$ DQPSK_LCH_Graphs

Pref

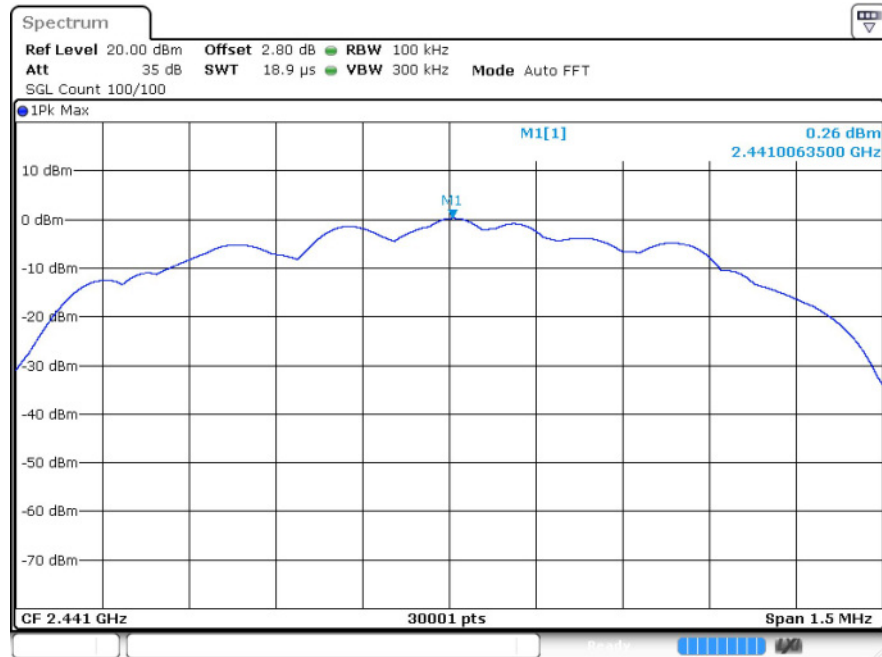


Puw



$\pi/4$ DQPSK_MCH_Graphs

Pref



Puw

