



Appendix A

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

Product Name: TWS Headset

Trade Mark: 

Test Model: DuoZ Pro10

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung



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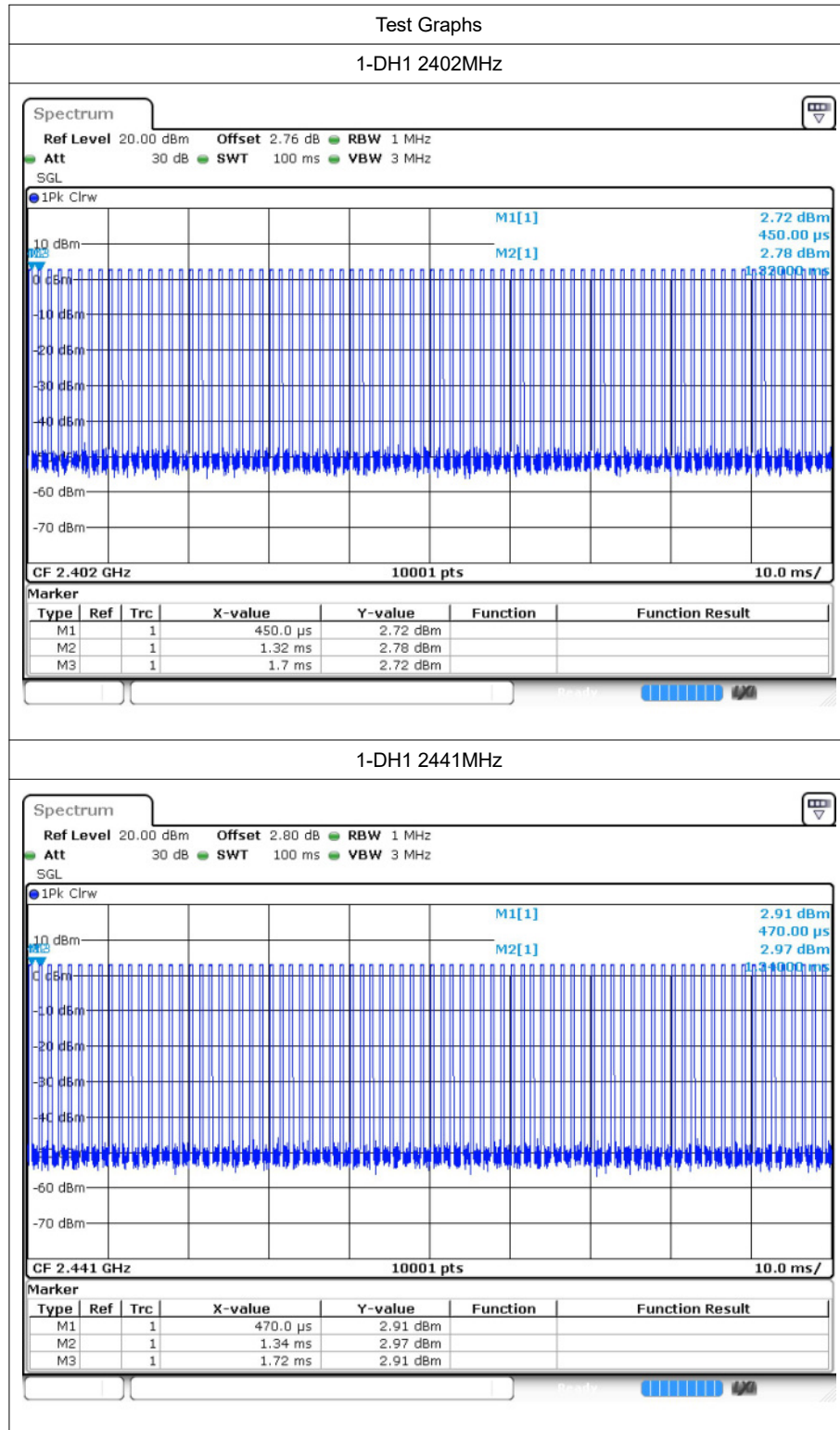
1 Duty Cycle

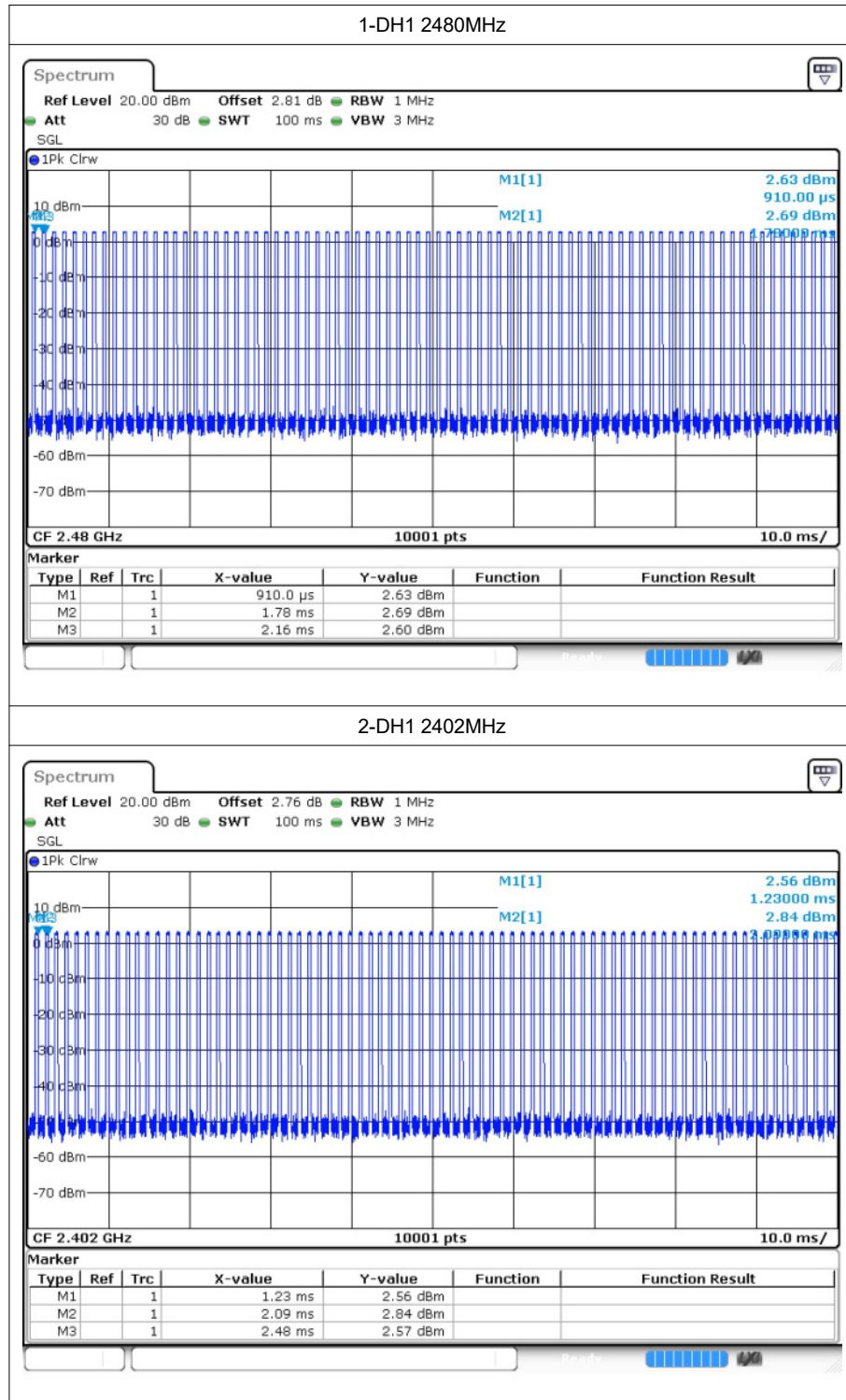
1.1 Test Result

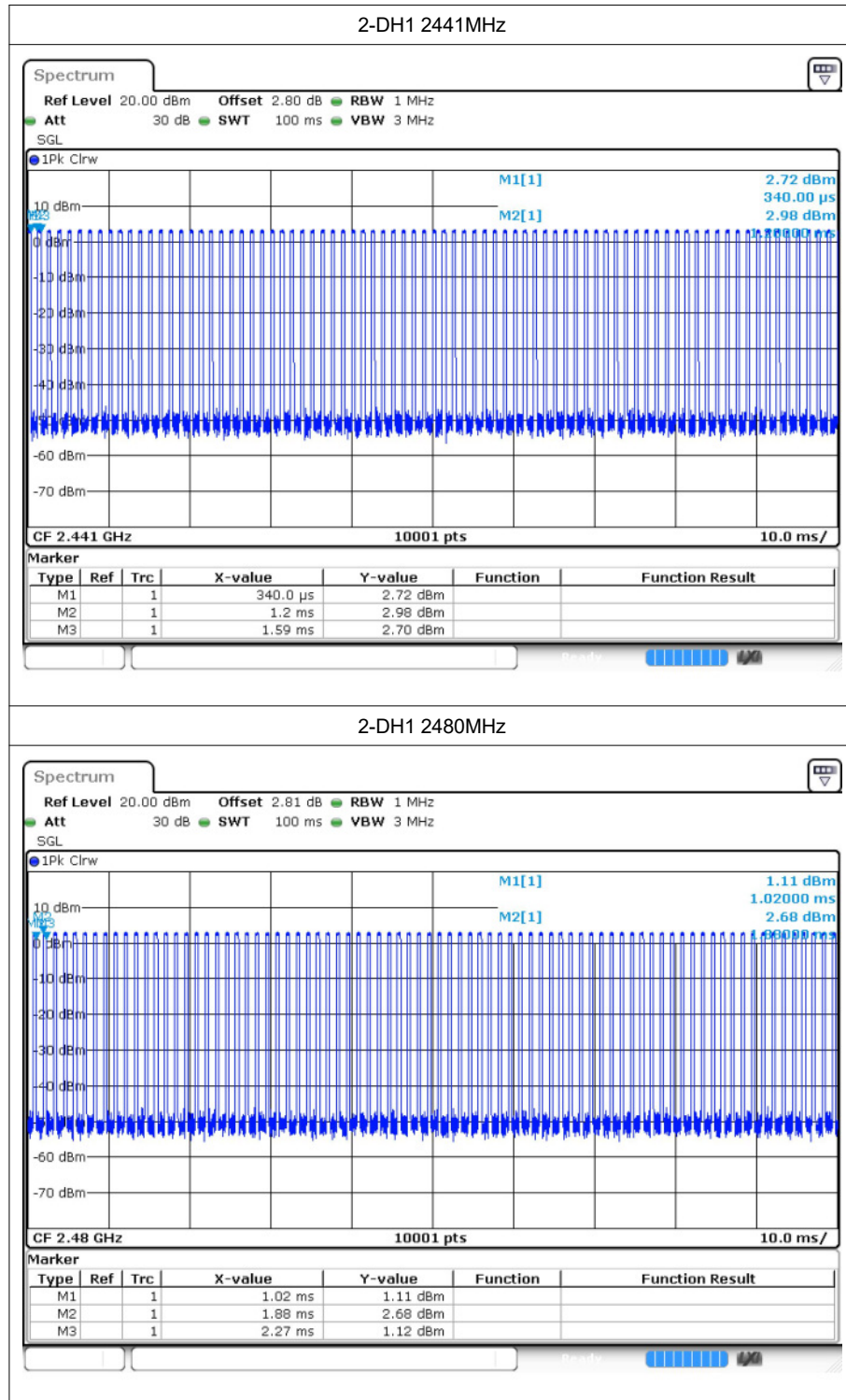
Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor	1/T (kHz)
1-DH1	2402	31.2	5.06	2.63
1-DH1	2441	31.2	5.06	2.63
1-DH1	2480	31.2	5.06	2.63
2-DH1	2402	32	4.95	2.56
2-DH1	2441	32.01	4.95	2.56
2-DH1	2480	32	4.95	2.56
3-DH1	2402	32	4.95	2.56
3-DH1	2441	32	4.95	2.56
3-DH1	2480	32.81	4.84	2.5

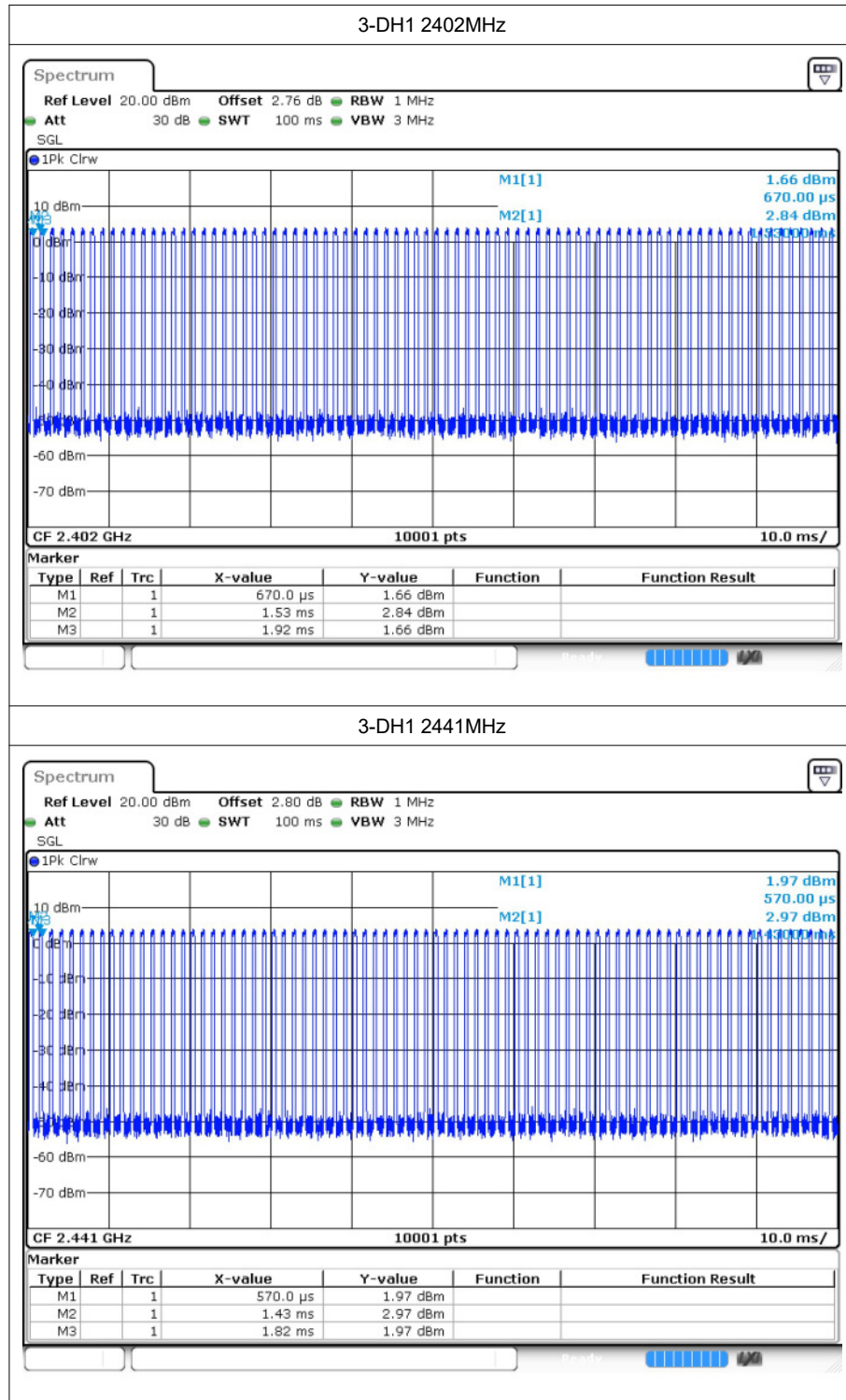
Note: Left and right ear have been tested and the only shows the worst case mode.

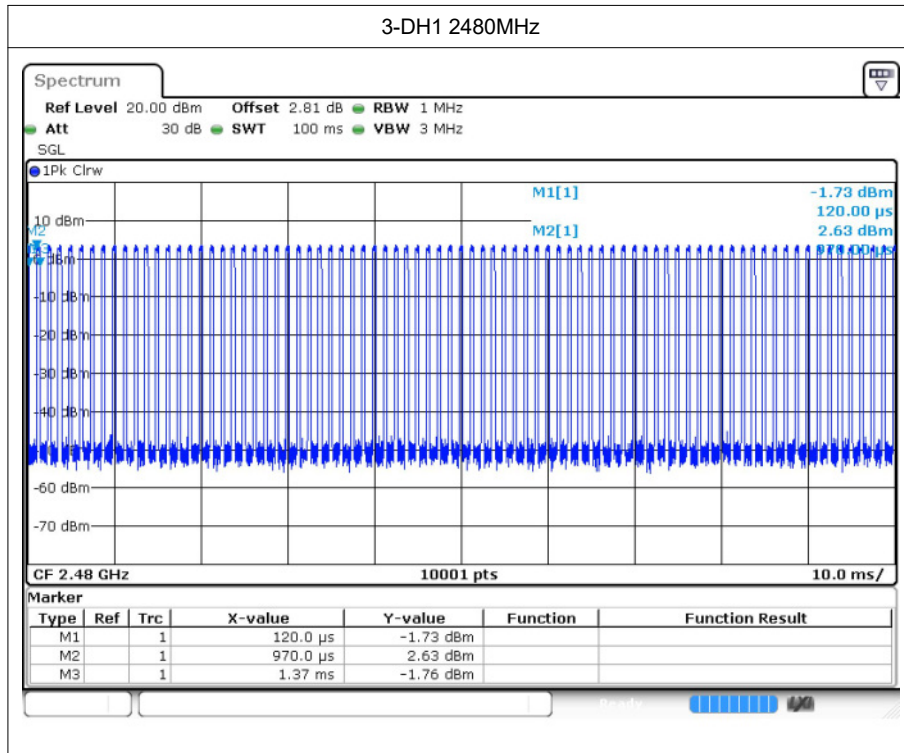
1.2 Test Graphs











2 Maximum Conducted Peak Output Power

2.1 Test Result

Left:

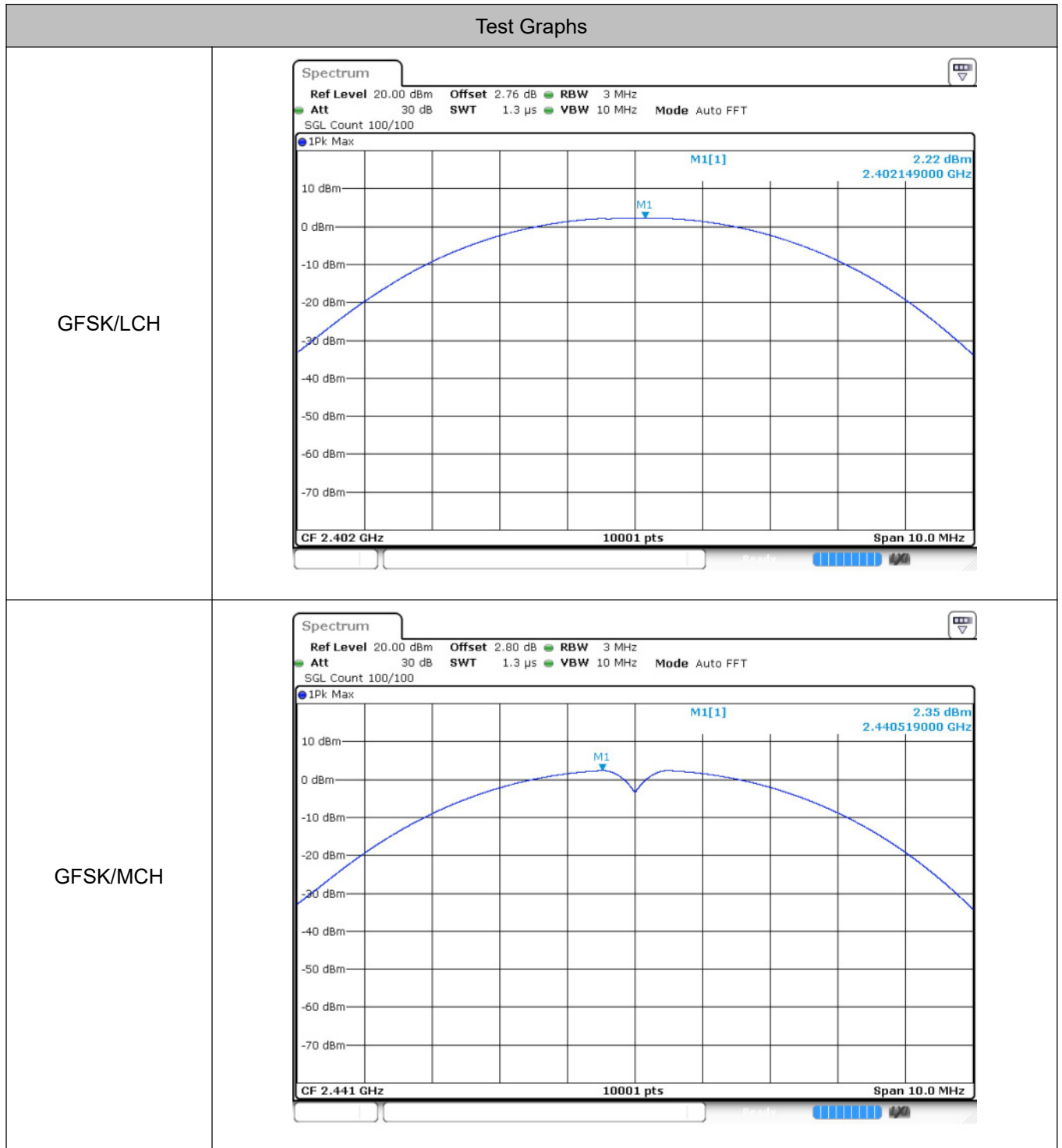
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2.22	21	Pass
	MCH	2.35	21	Pass
	HCH	2.13	21	Pass
$\pi/4$ DQPSK	LCH	2.76	21	Pass
	MCH	2.99	21	Pass
	HCH	2.35	21	Pass
8DPSK	LCH	2.64	21	Pass
	MCH	2.96	21	Pass
	HCH	2.85	21	Pass

Right:

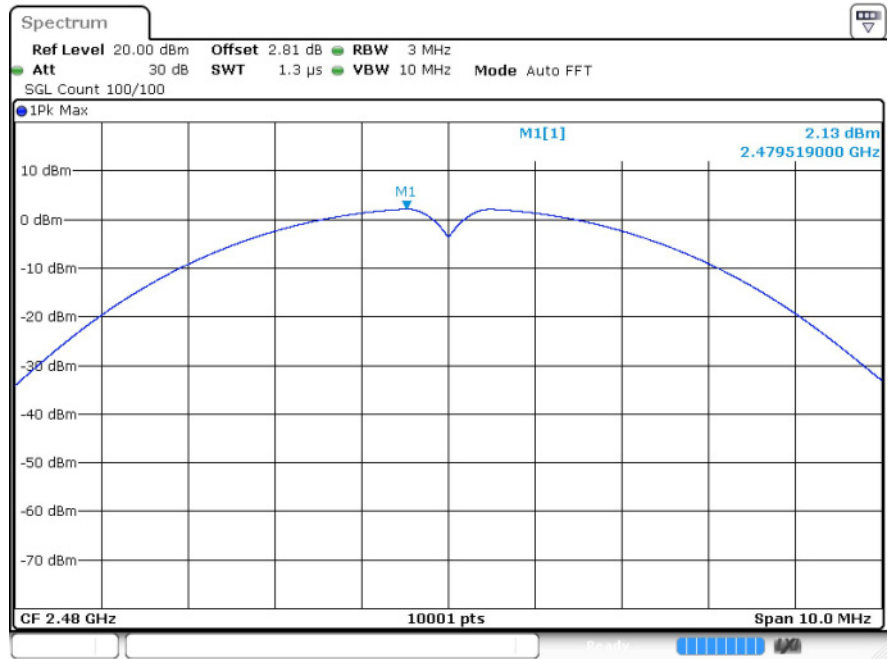
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2.65	21	Pass
	MCH	2.85	21	Pass
	HCH	2.67	21	Pass
$\pi/4$ DQPSK	LCH	3.29	21	Pass
	MCH	3.48	21	Pass
	HCH	3.19	21	Pass
8DPSK	LCH	2.89	21	Pass
	MCH	3.21	21	Pass
	HCH	2.91	21	Pass

2.2 Test Graphs

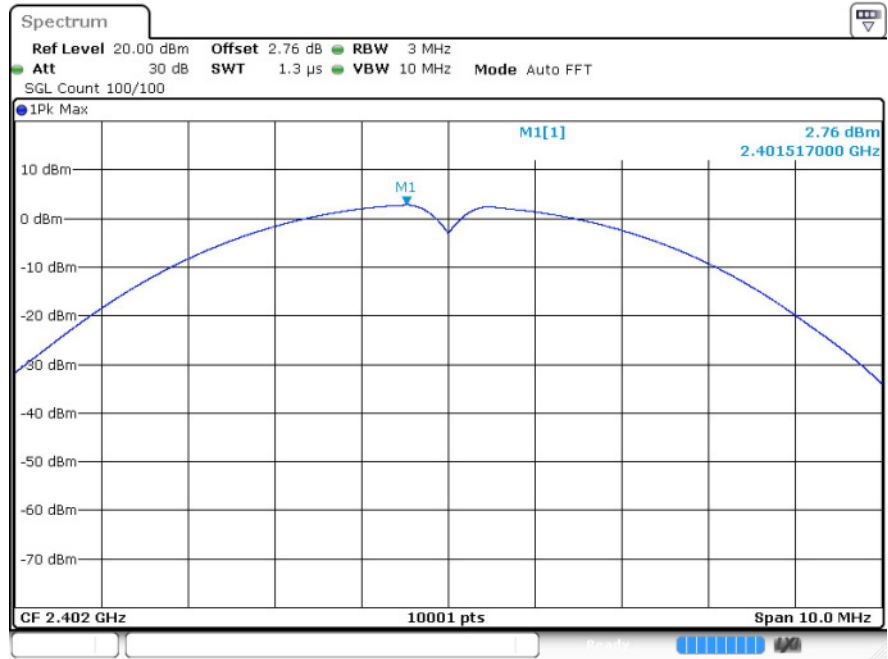
Left:



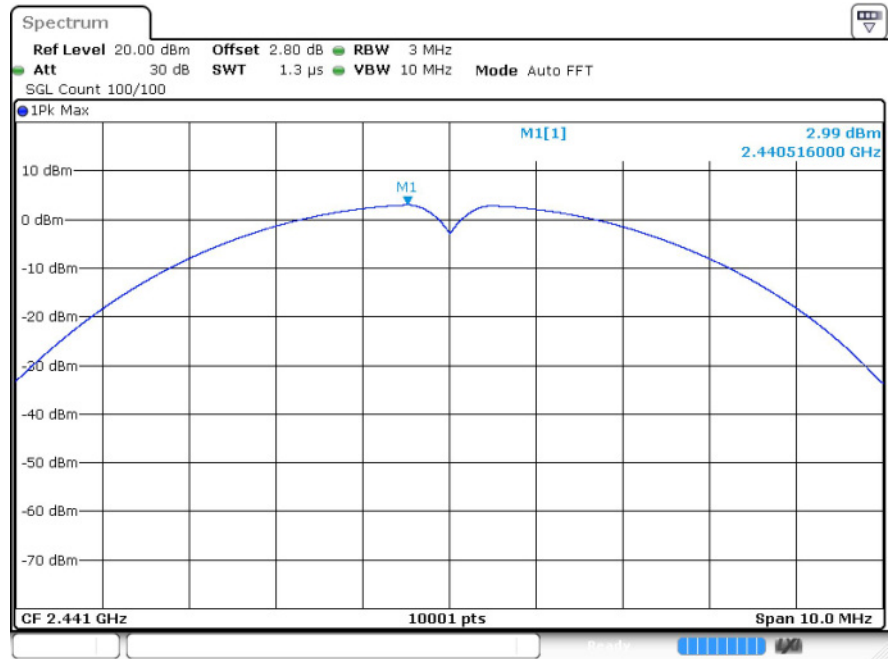
GFSK/HCH



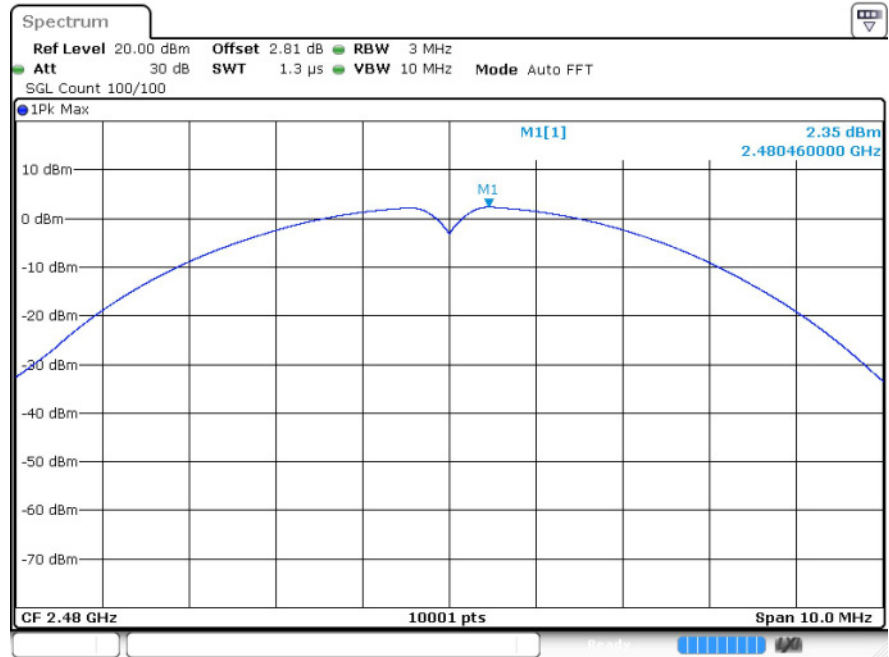
$\pi/4$ DQPSK/LCH



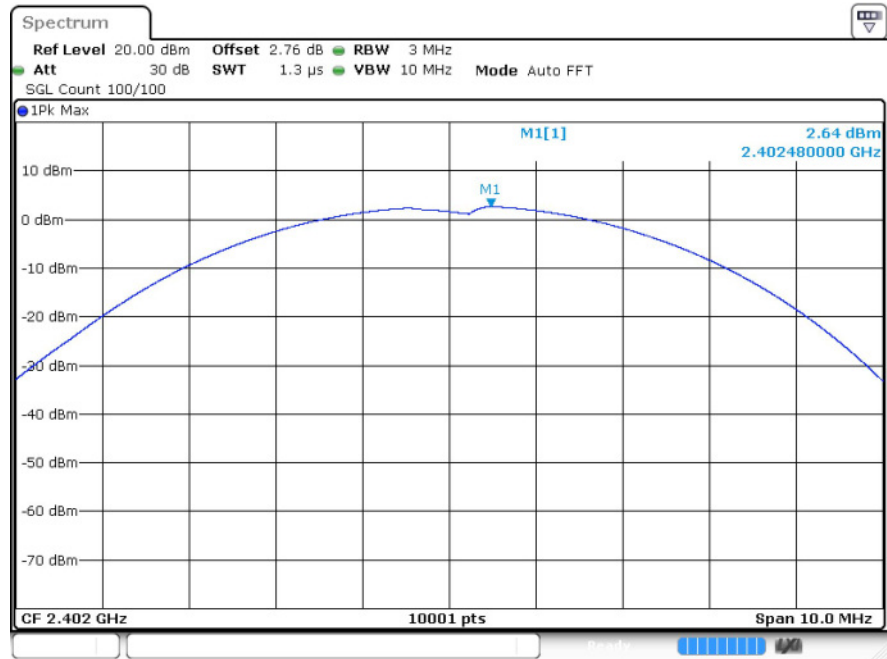
$\pi/4$ DQPSK/MCH



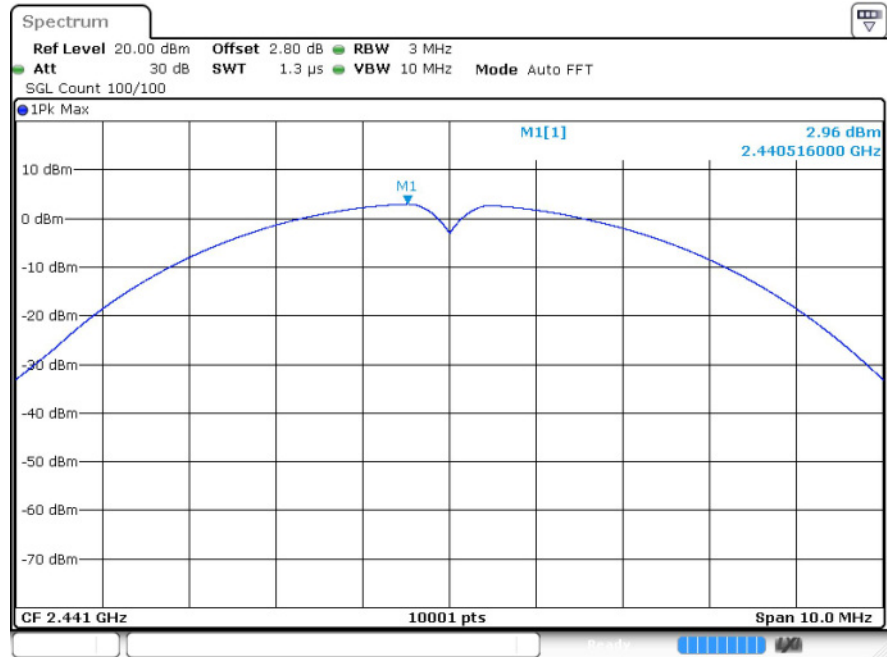
$\pi/4$ DQPSK/HCH



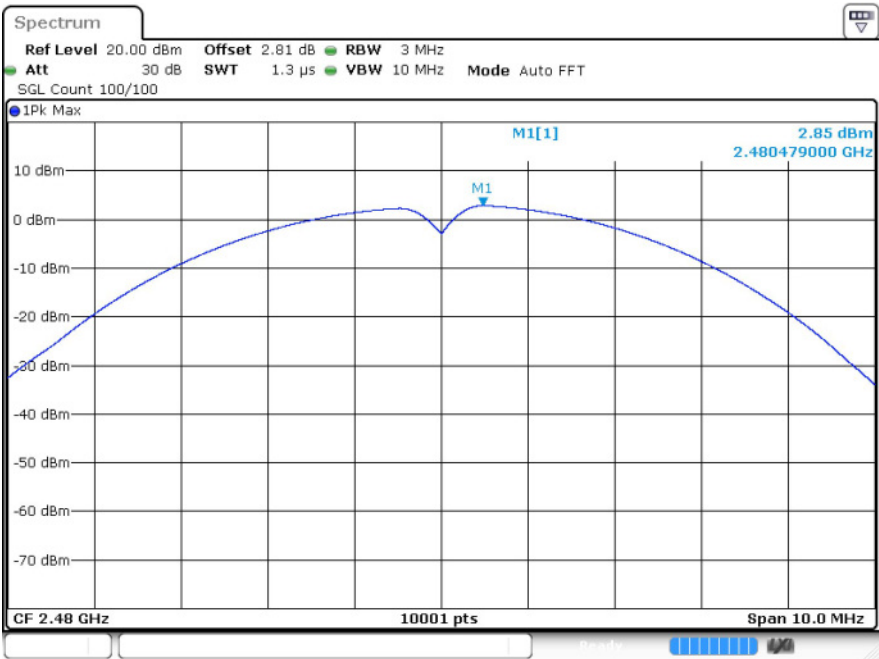
8DPSK/LCH



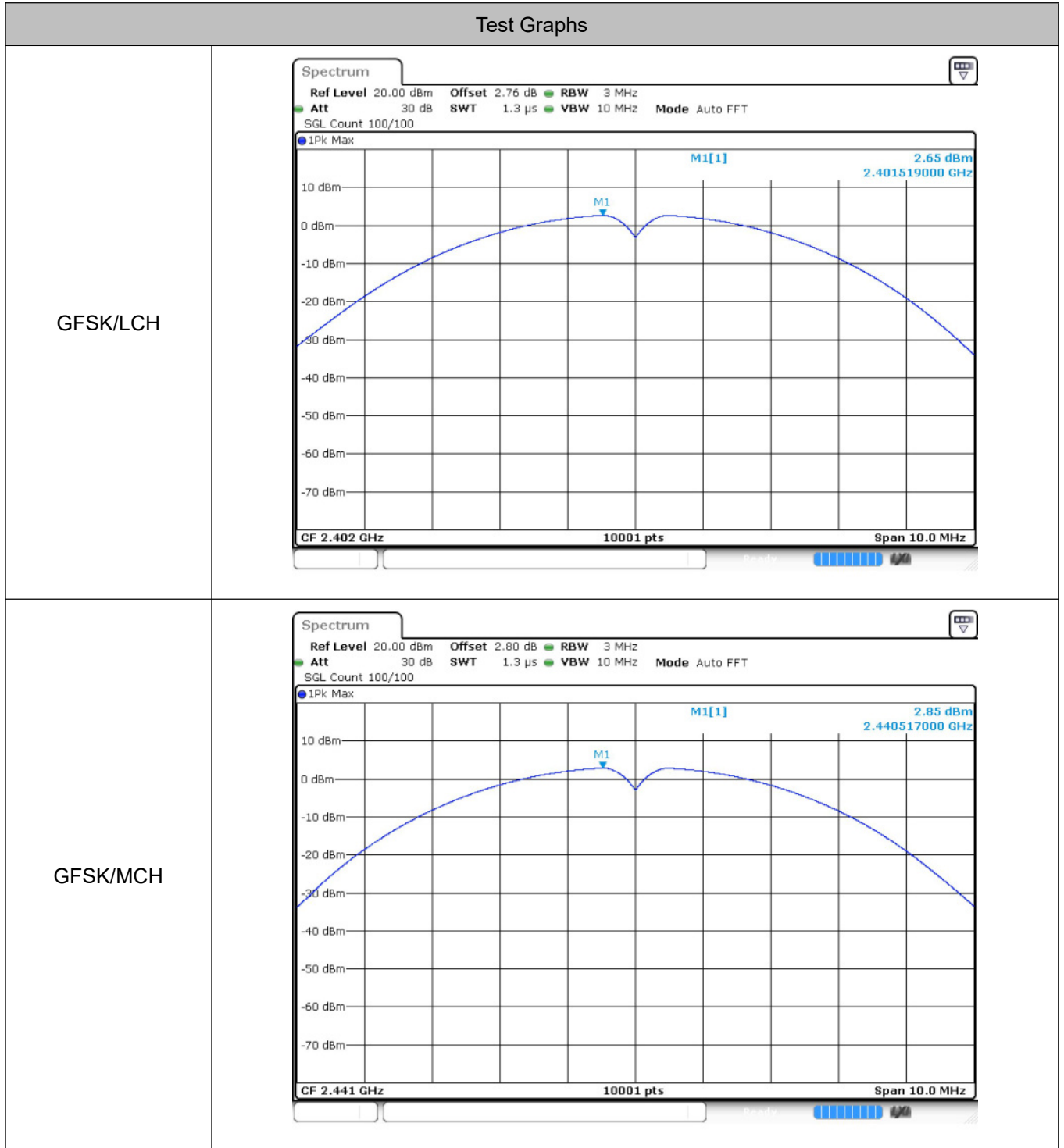
8DPSK/MCH



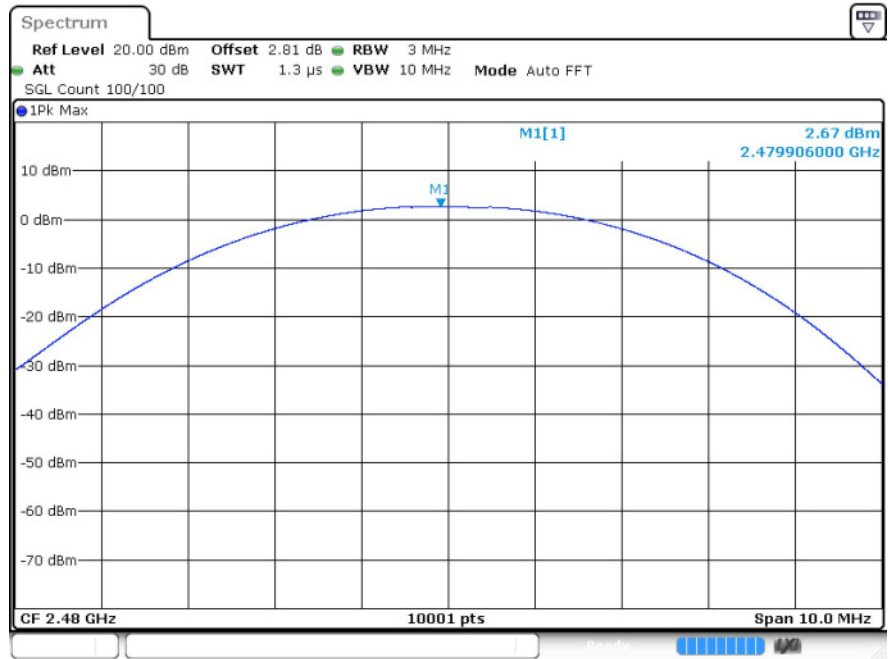
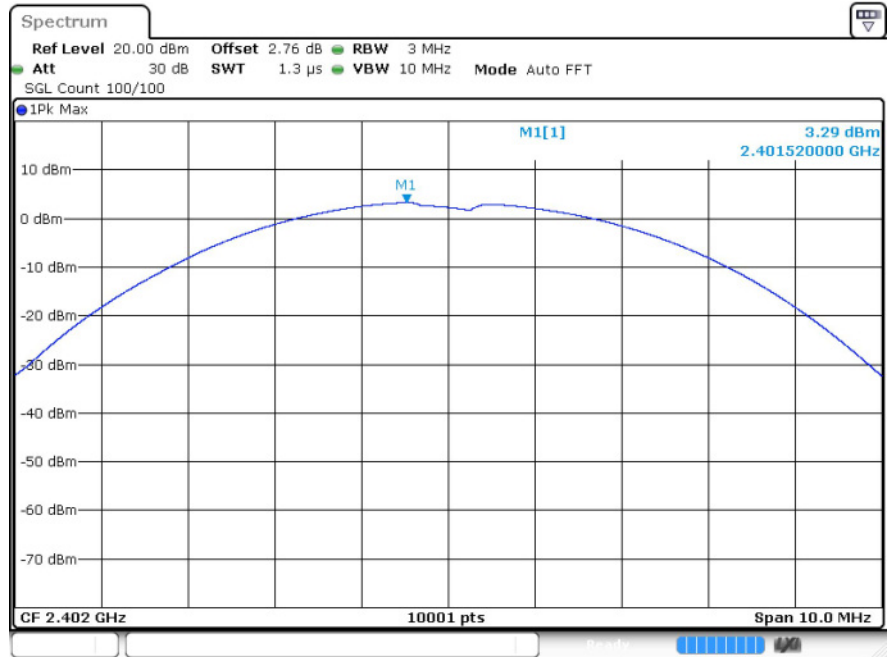
8DPSK/HCH



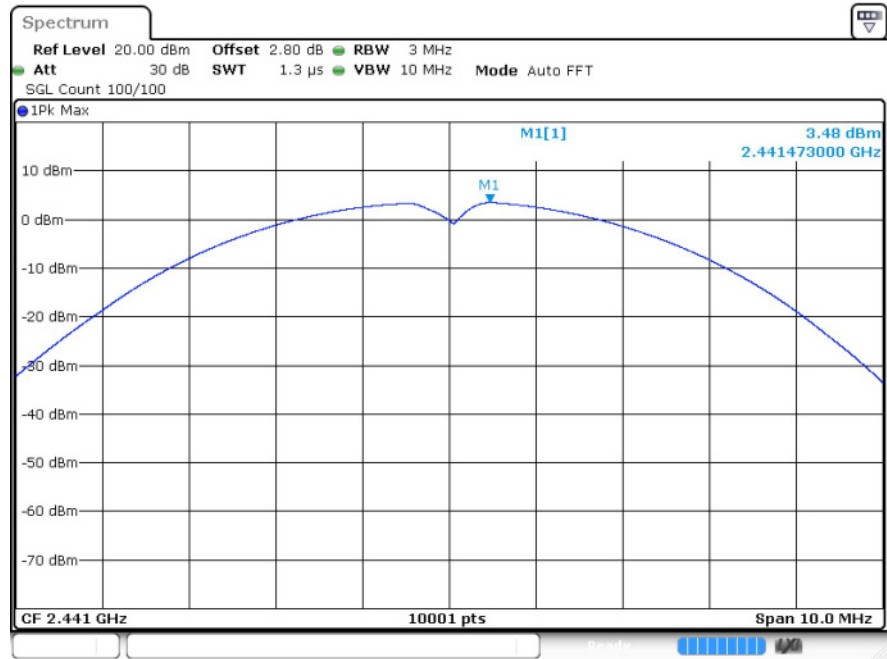
Right:



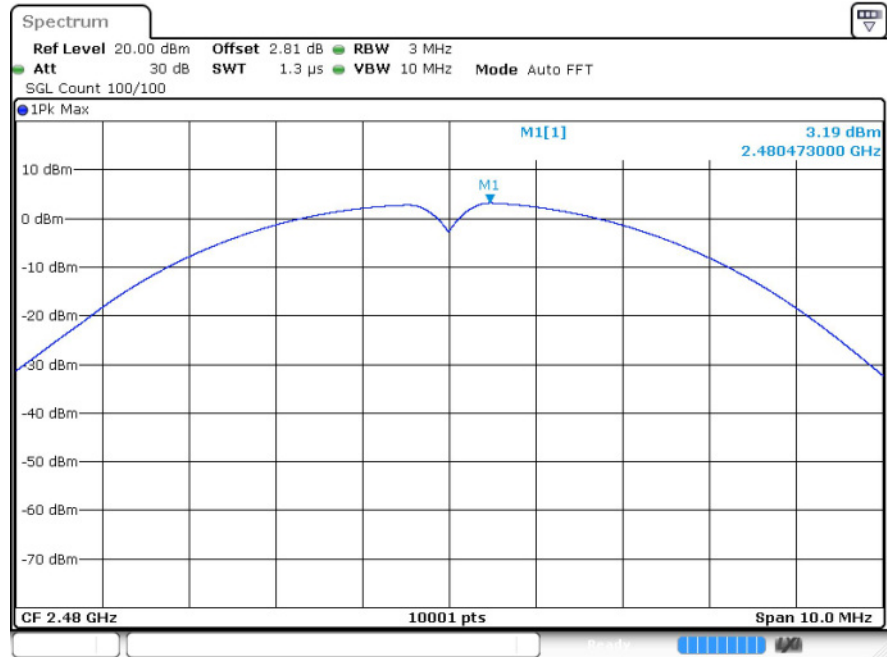
GFSK/HCH


 $\pi/4$ DQPSK/LCH


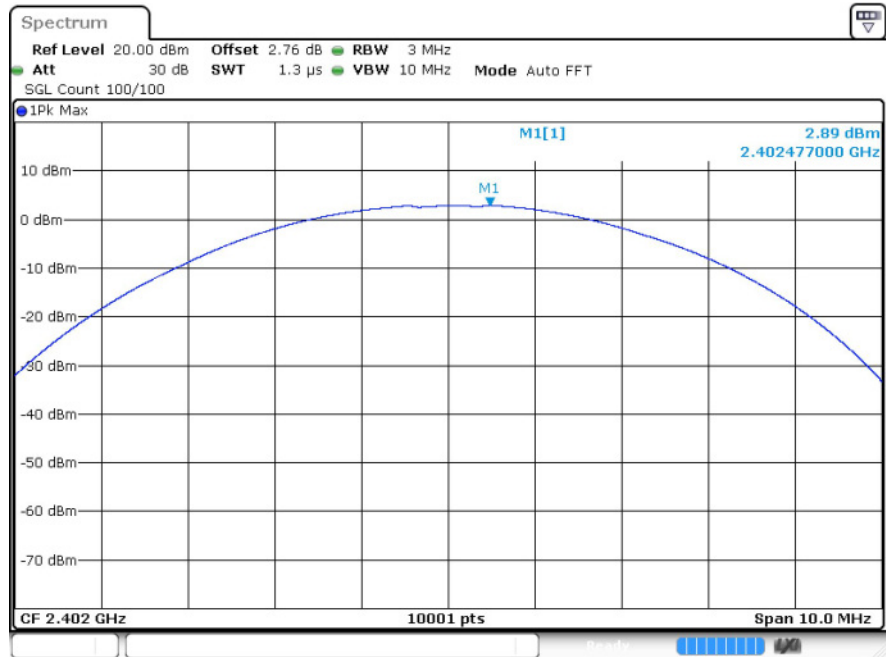
$\pi/4$ DQPSK/MCH



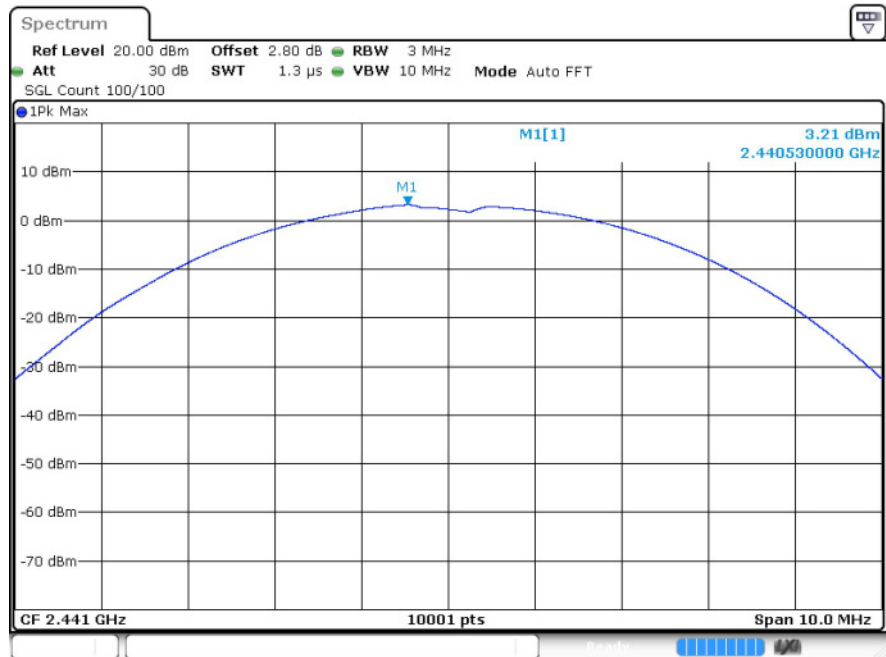
$\pi/4$ DQPSK/HCH



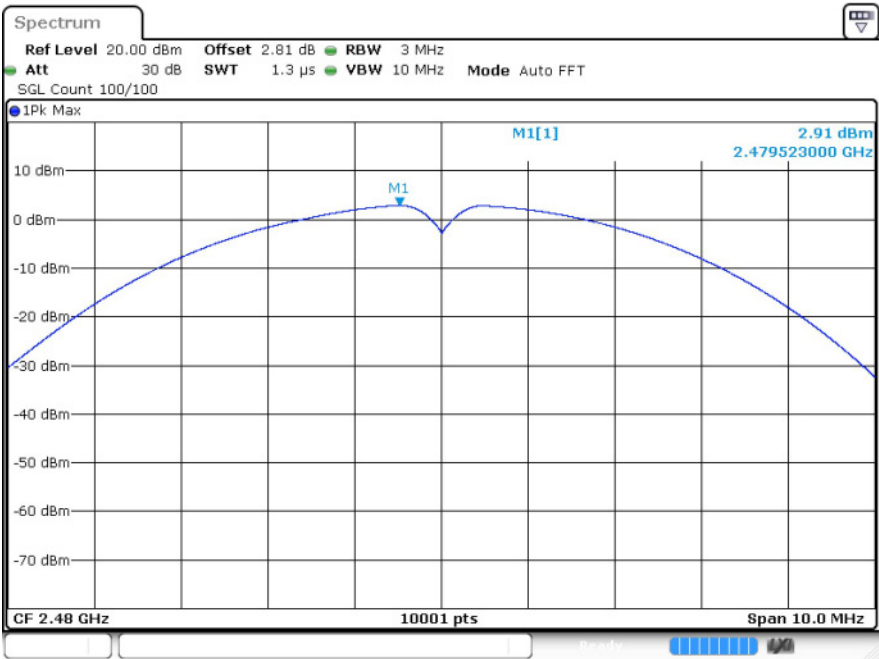
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH



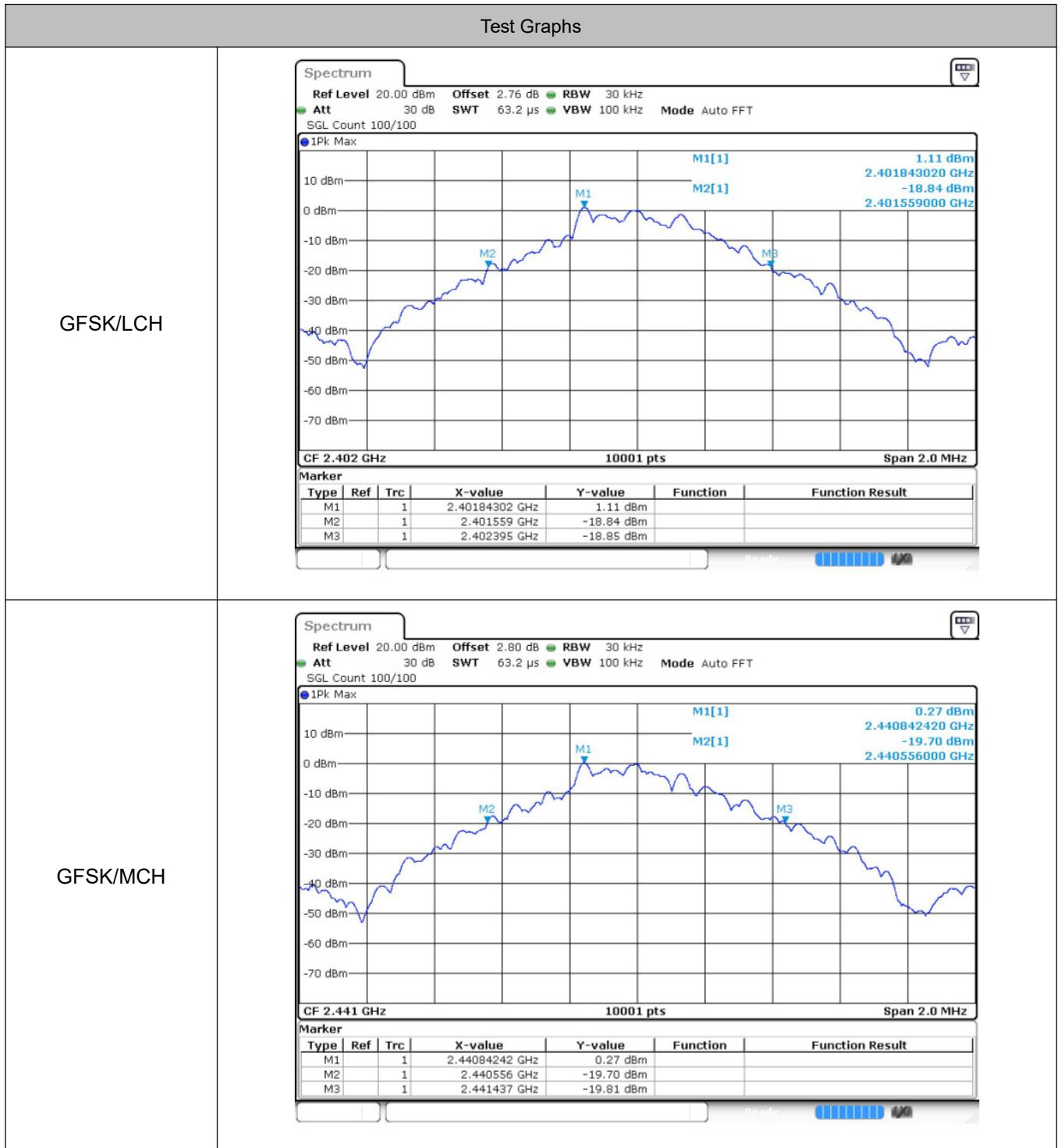
3 20dB Bandwidth

3.1 Test Result

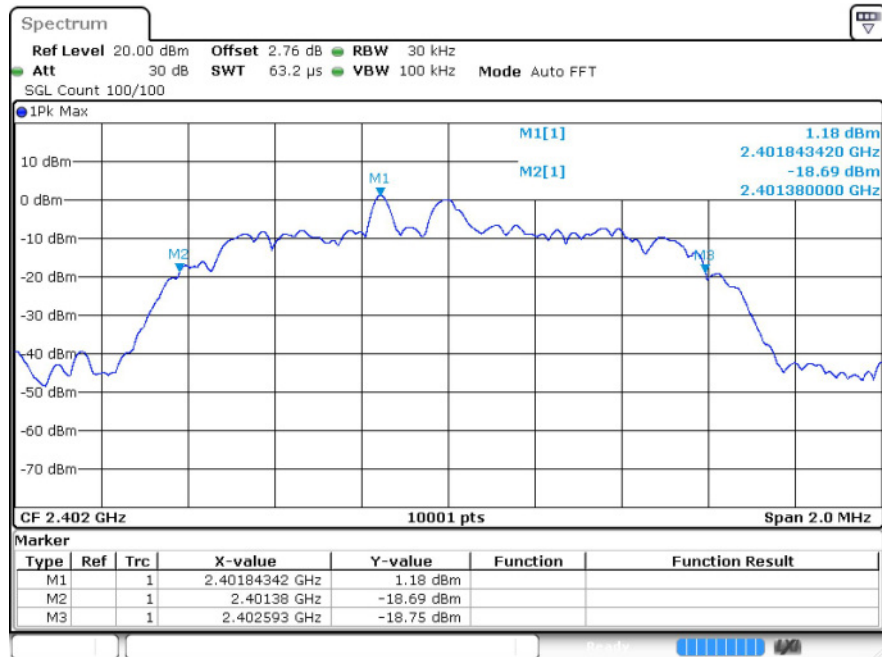
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.836	Not Specified	Pass
	MCH	0.881	Not Specified	Pass
	HCH	0.851	Not Specified	Pass
$\pi/4$ DQPSK	LCH	1.213	Not Specified	Pass
	MCH	1.22	Not Specified	Pass
	HCH	1.236	Not Specified	Pass
8DPSK	LCH	1.235	Not Specified	Pass
	MCH	1.241	Not Specified	Pass
	HCH	1.246	Not Specified	Pass

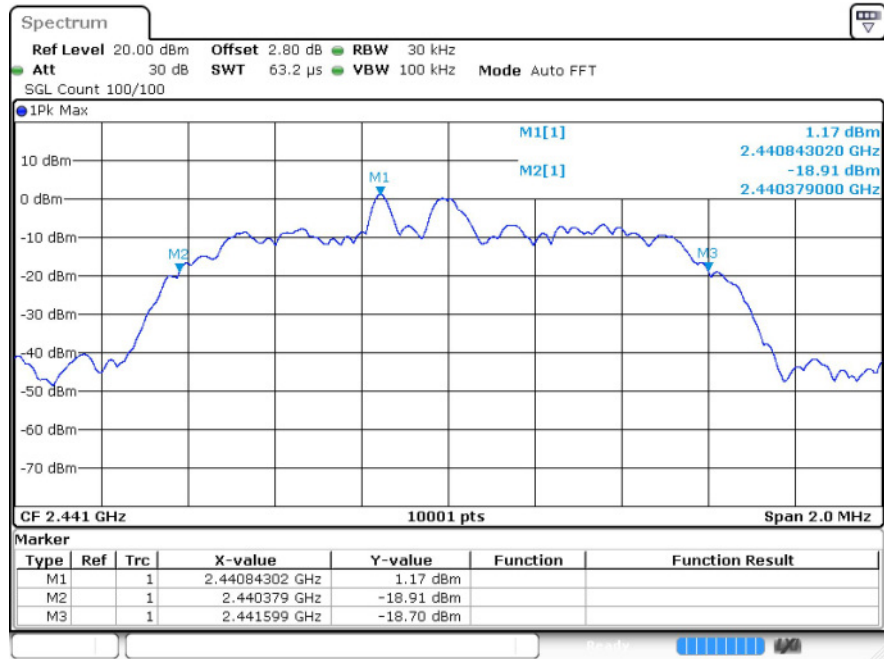
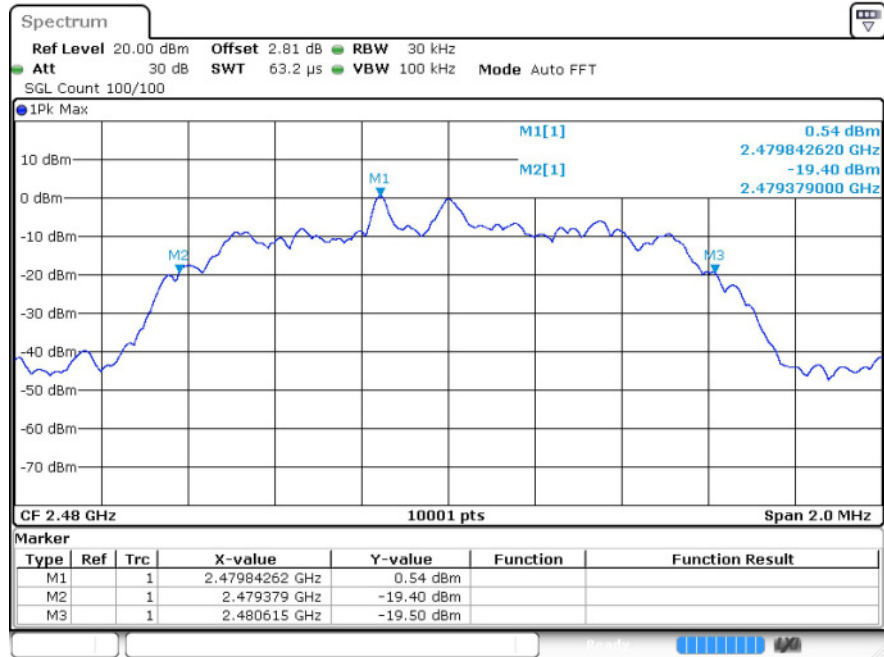
Note: Left and right ear have been tested and the only shows the worst case mode.

3.2 Test Graphs

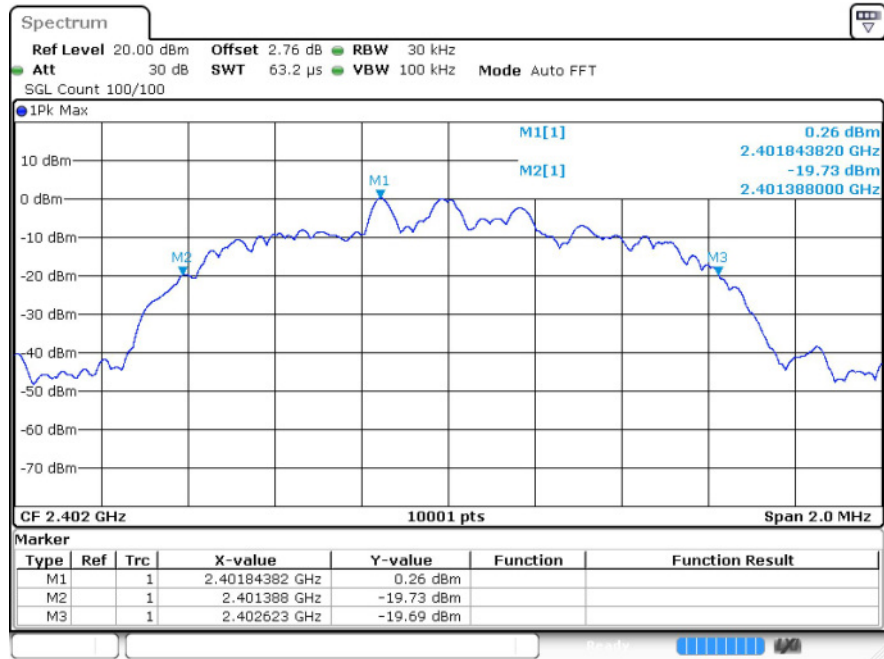


GFSK/HCH

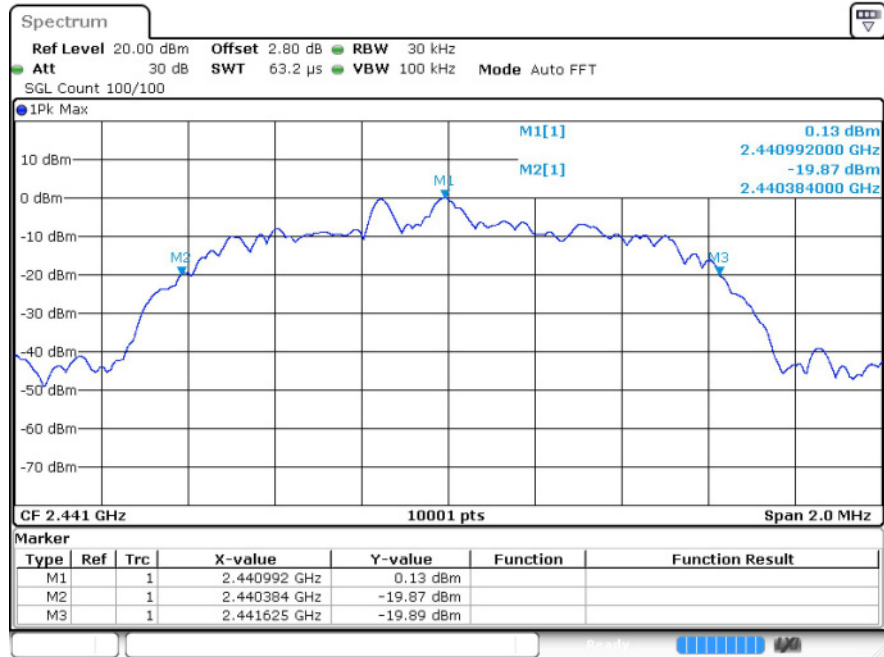

 $\pi/4$ DQPSK/LCH


$\pi/4$ DQPSK/MCH

 $\pi/4$ DQPSK/HCH


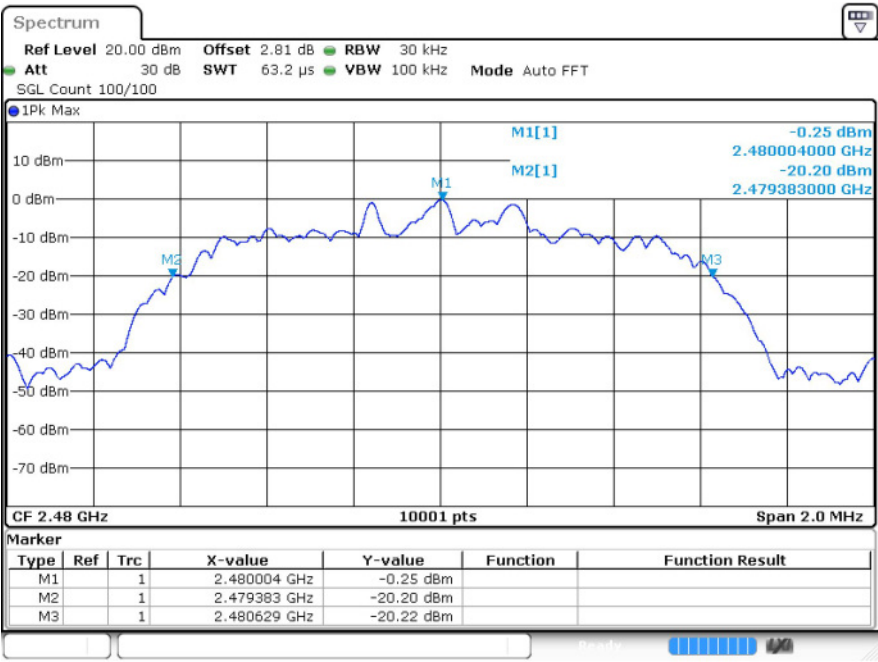
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH



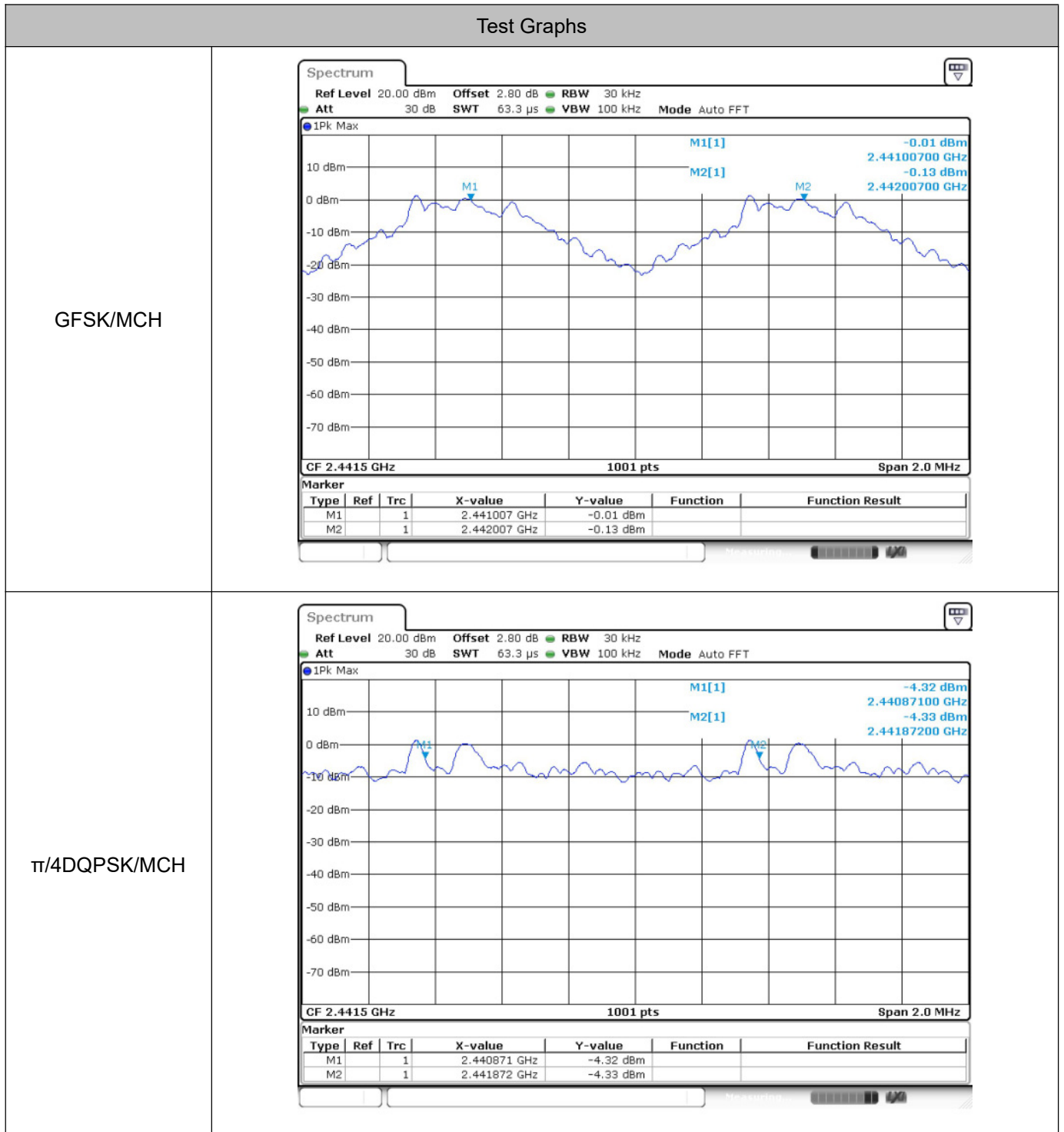
4 Carrier Frequency Separation

4.1 Test Result

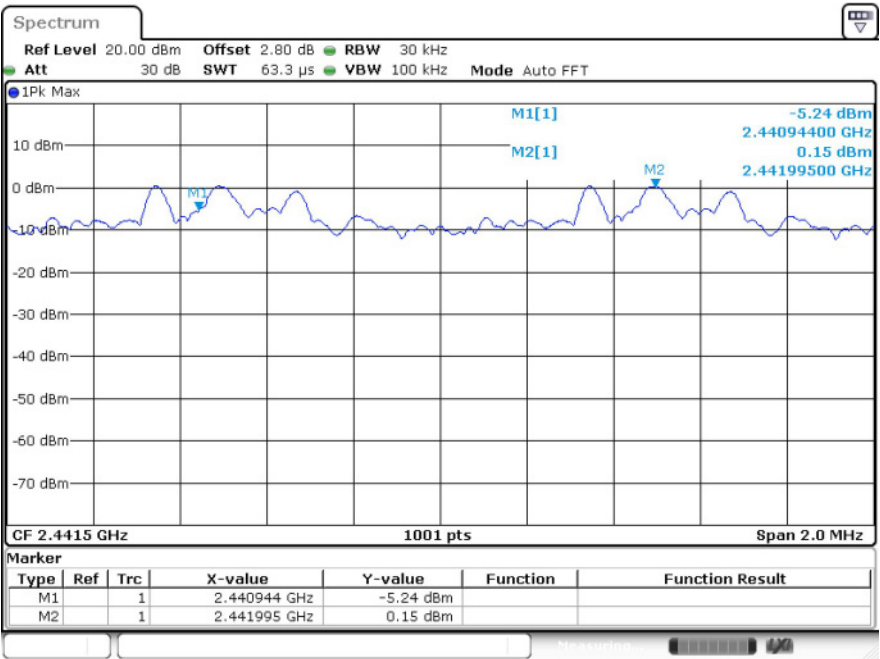
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	1	0.587	Pass
$\pi/4$ DQPSK	MCH	1.001	0.813	Pass
8DPSK	MCH	1.051	0.827	Pass

Note: Left and right ear have been tested and the only shows the worst case mode.

4.2 Test Graphs



8DPSK/MCH



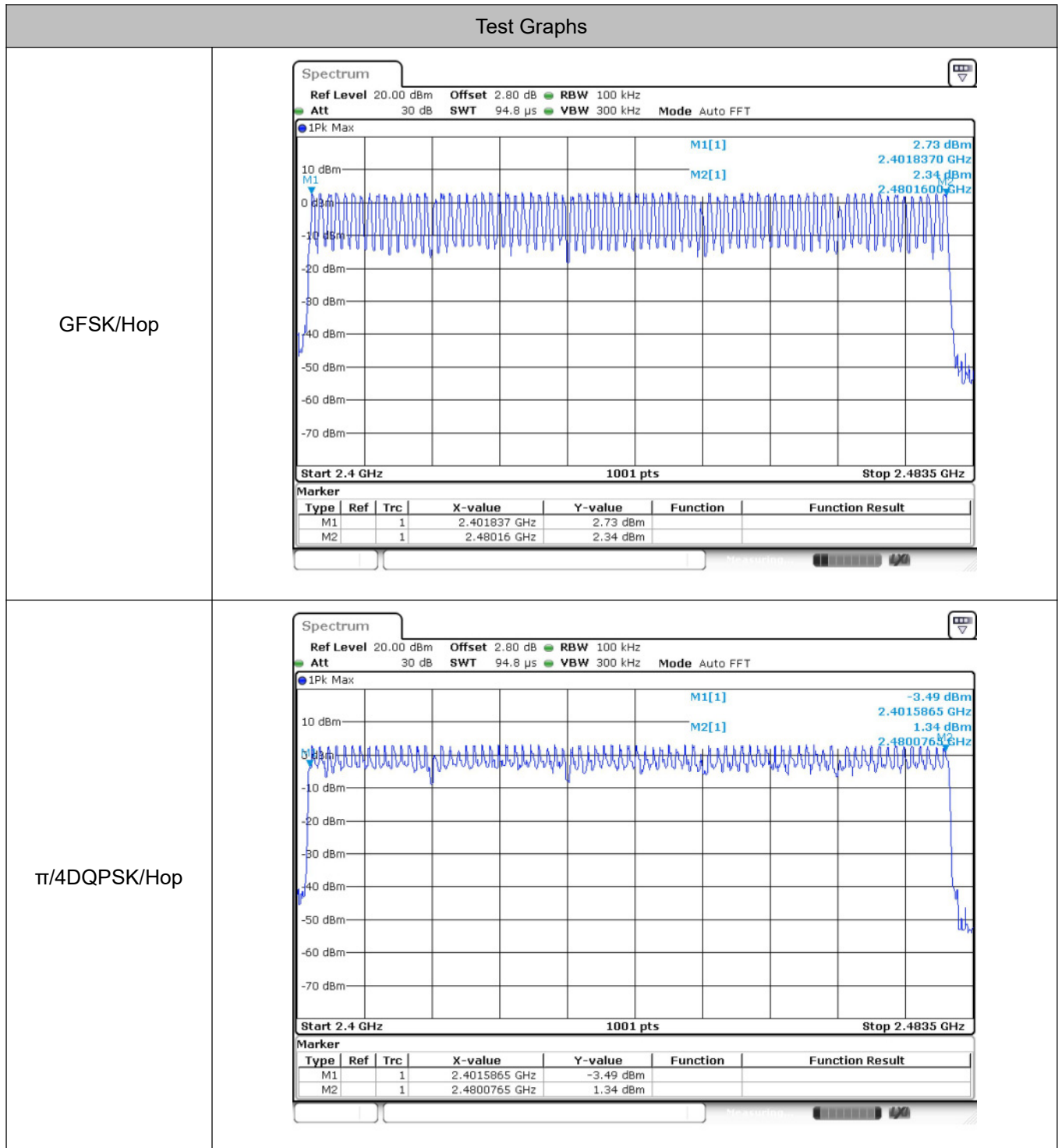
5 Hopping Channel Number

5.1 Test Result

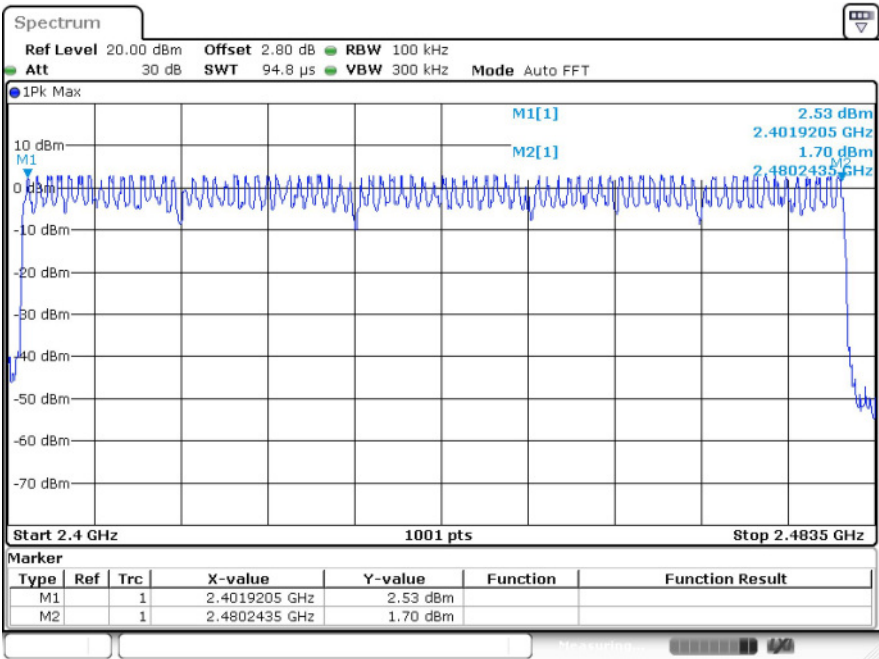
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	≥ 15	PASS
$\pi/4$ DQPSK	Hop	79	≥ 15	PASS
8DPSK	Hop	79	≥ 15	PASS

Note: Left and right ear have been tested and the only shows the worst case mode.

5.2 Test Graphs



8DPSK/Hop





6 Dwell Time

6.1 Test Result

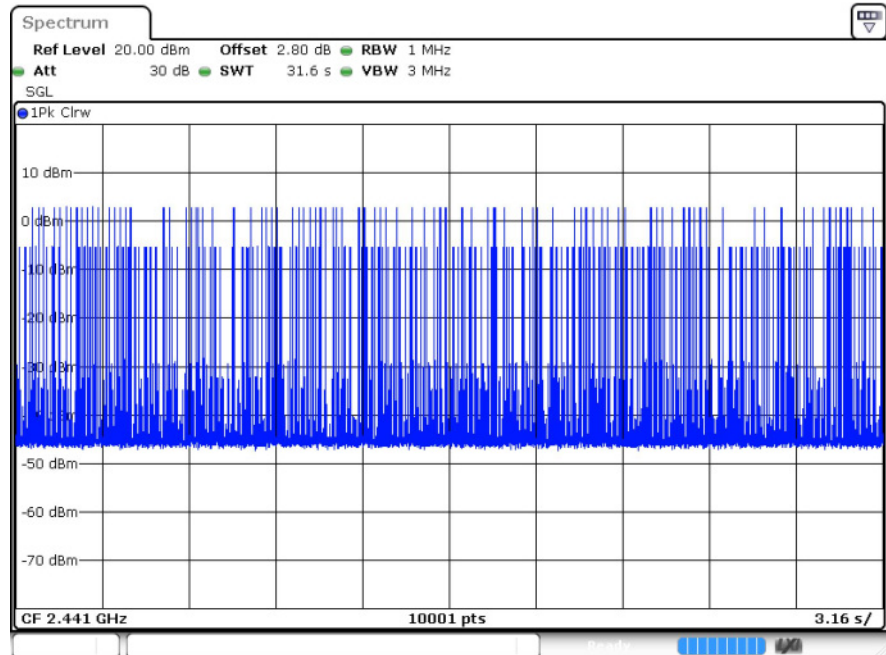
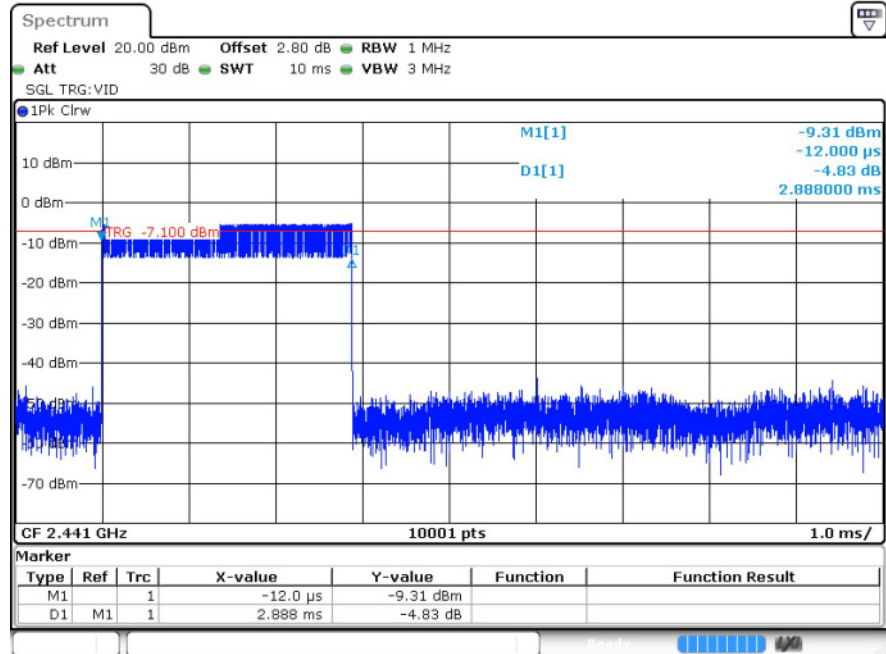
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Limit [s]	Verdict
GFSK	DH5	MCH	2.888	111	320.568	0.4	Pass
$\pi/4$ DQPSK	2DH5	MCH	2.892	113	326.796	0.4	Pass
8DPSK	3DH5	MCH	2.895	105	303.975	0.4	Pass

Note: Left and right ear have been tested and the only shows the worst case mode.

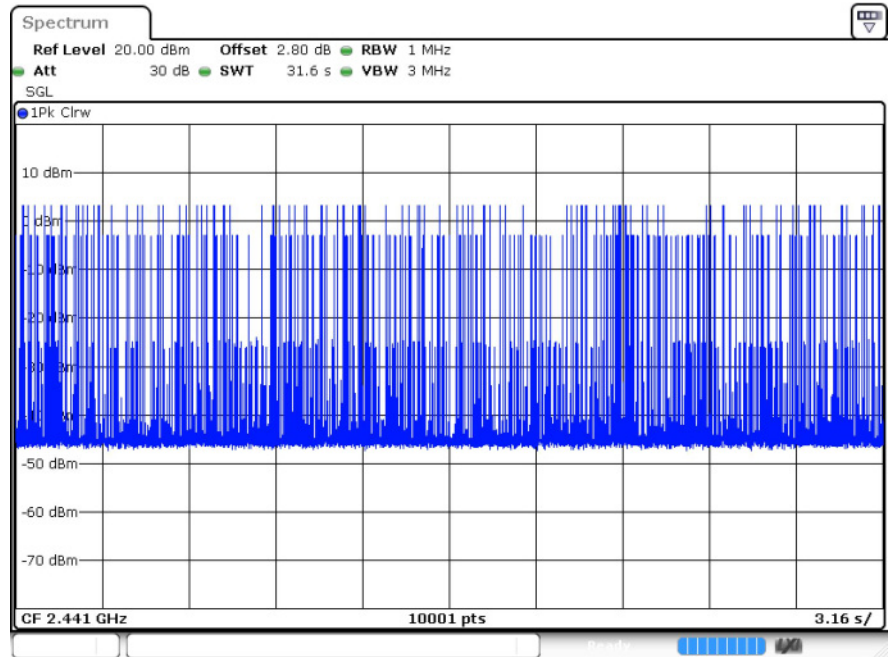
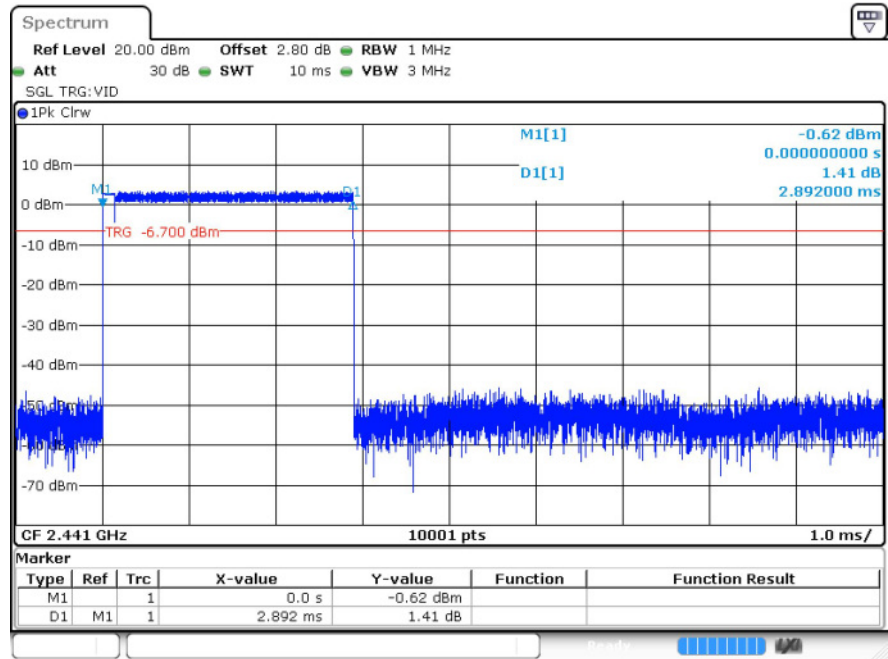
6.2 Test Graphs

Test Graphs

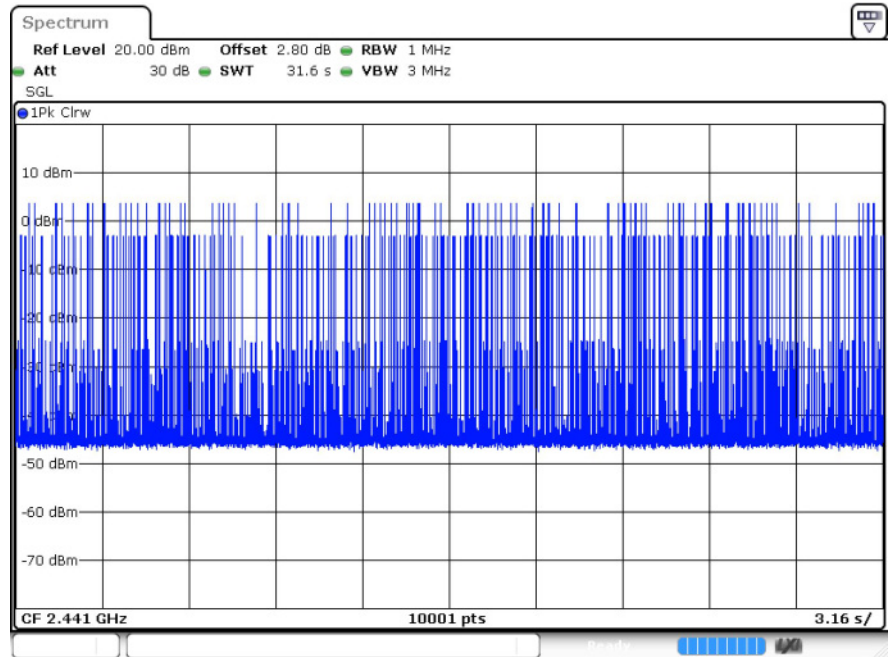
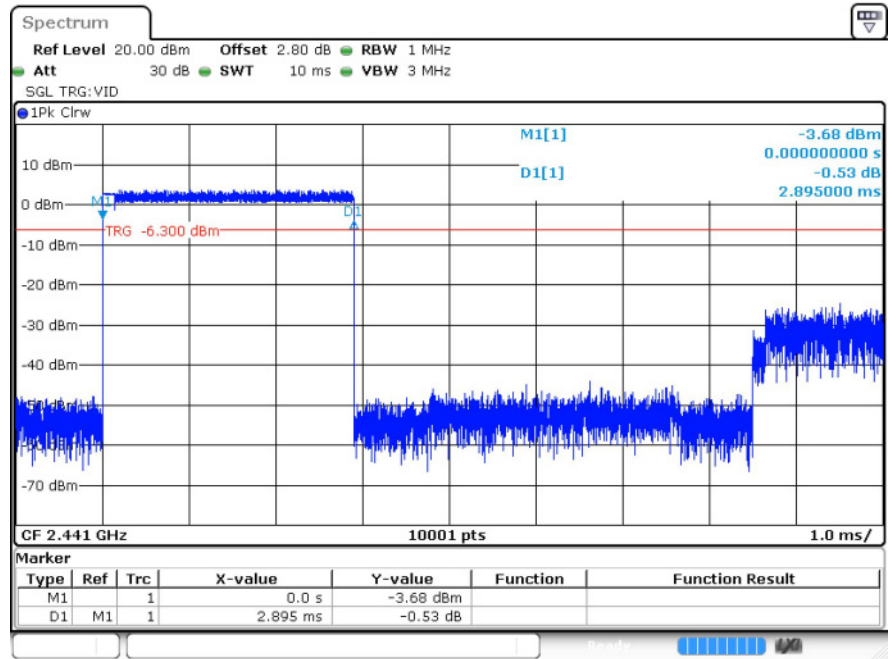
GFSK_DH5/MCH



$\pi/4$ DQPSK
_2DH5/MCH



8DPSK_3DH5/MCH



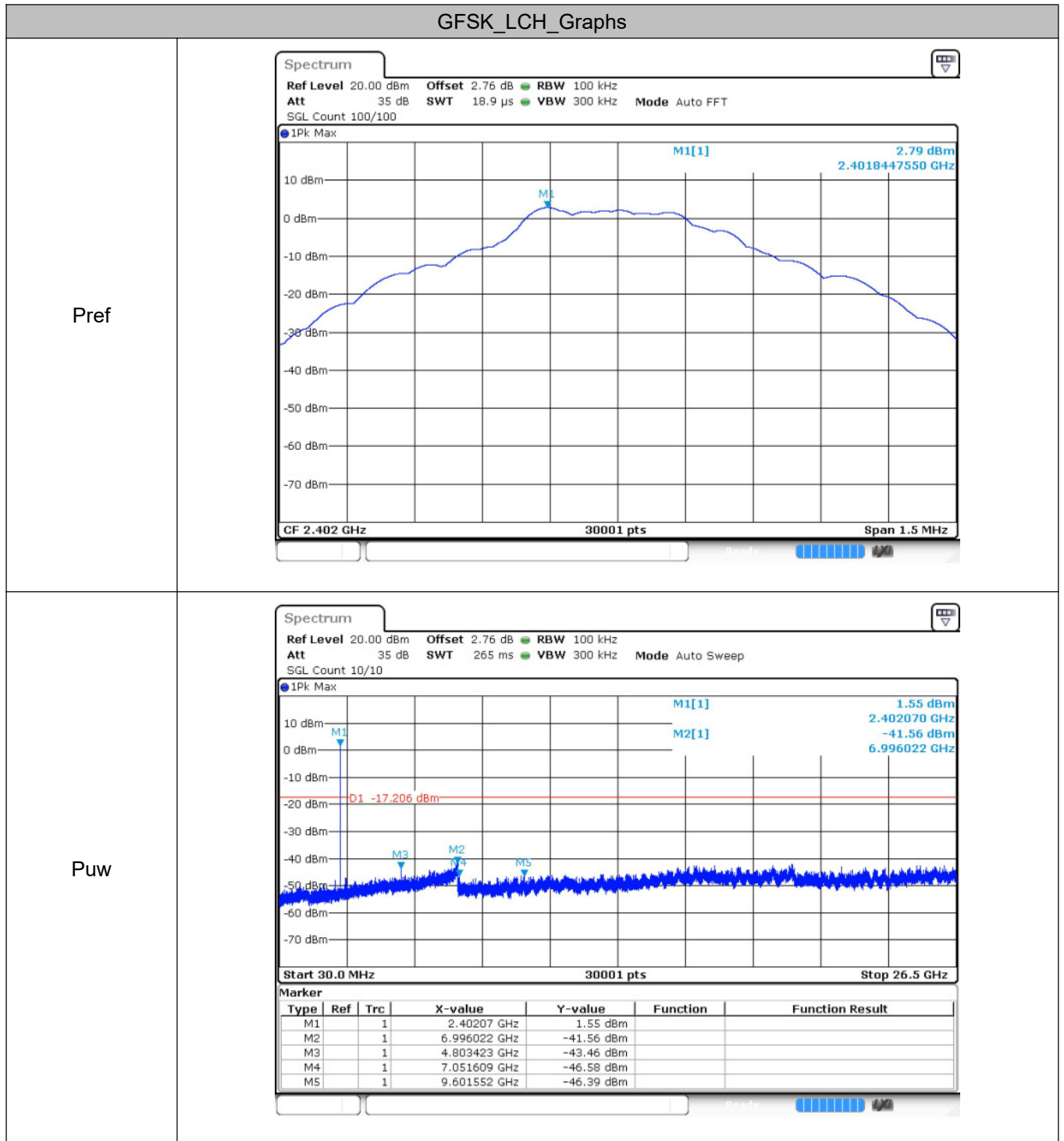
7 RF Conducted Spurious Emissions

7.1 Test Result

Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-44.35	-20	Pass
	MCH	-44.56	-20	Pass
	HCH	-44.52	-20	Pass
π /4DQPSK	LCH	-44.11	-20	Pass
	MCH	-43.76	-20	Pass
	HCH	-42.76	-20	Pass
8DPSK	LCH	-44.4	-20	Pass
	MCH	-45.17	-20	Pass
	HCH	-44.48	-20	Pass

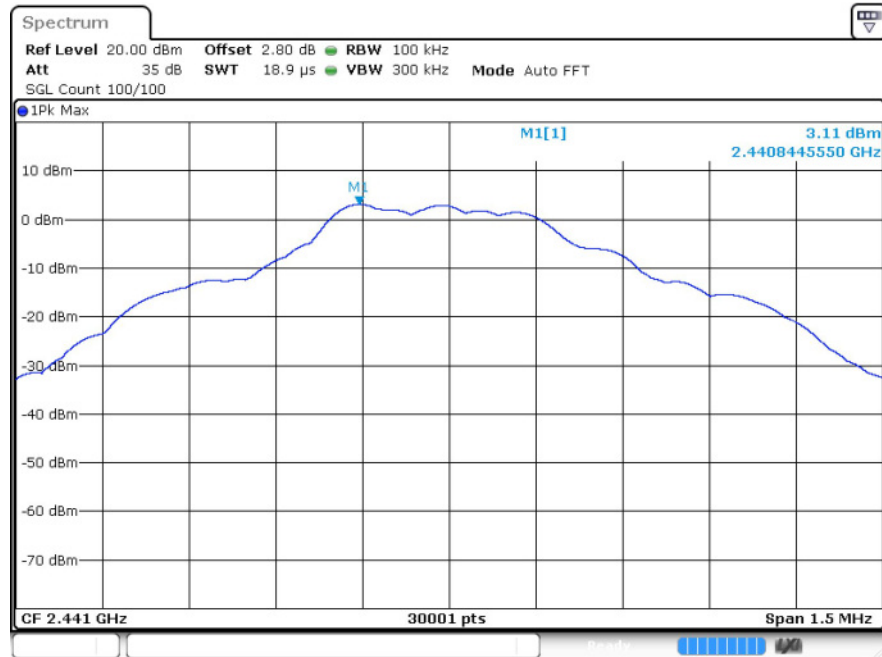
Note: Left and right ear have been tested and the only shows the worst case mode.

7.2 Test Graphs



GFSK_MCH_Graphs

Pref



Puw

