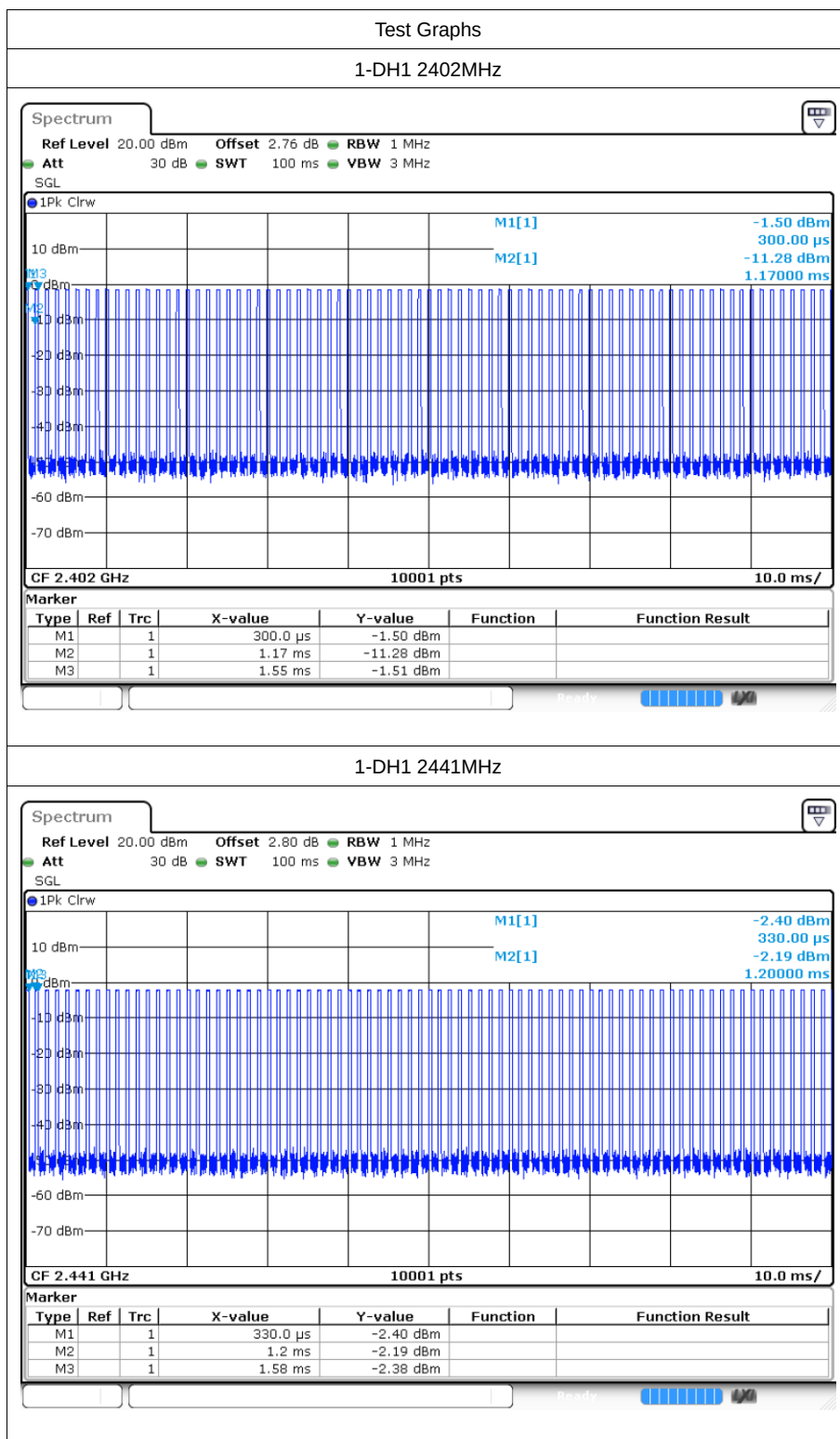


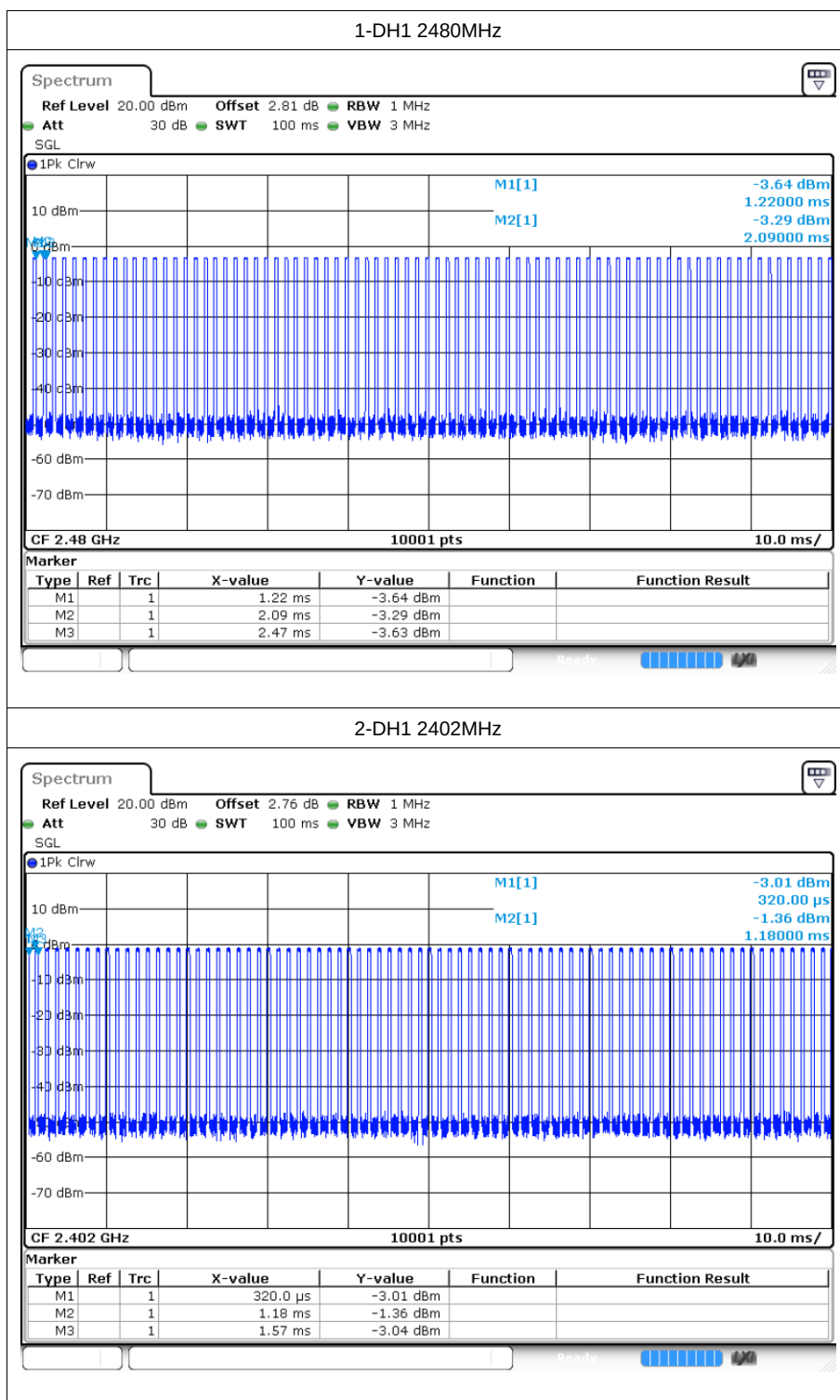
1 Duty Cycle

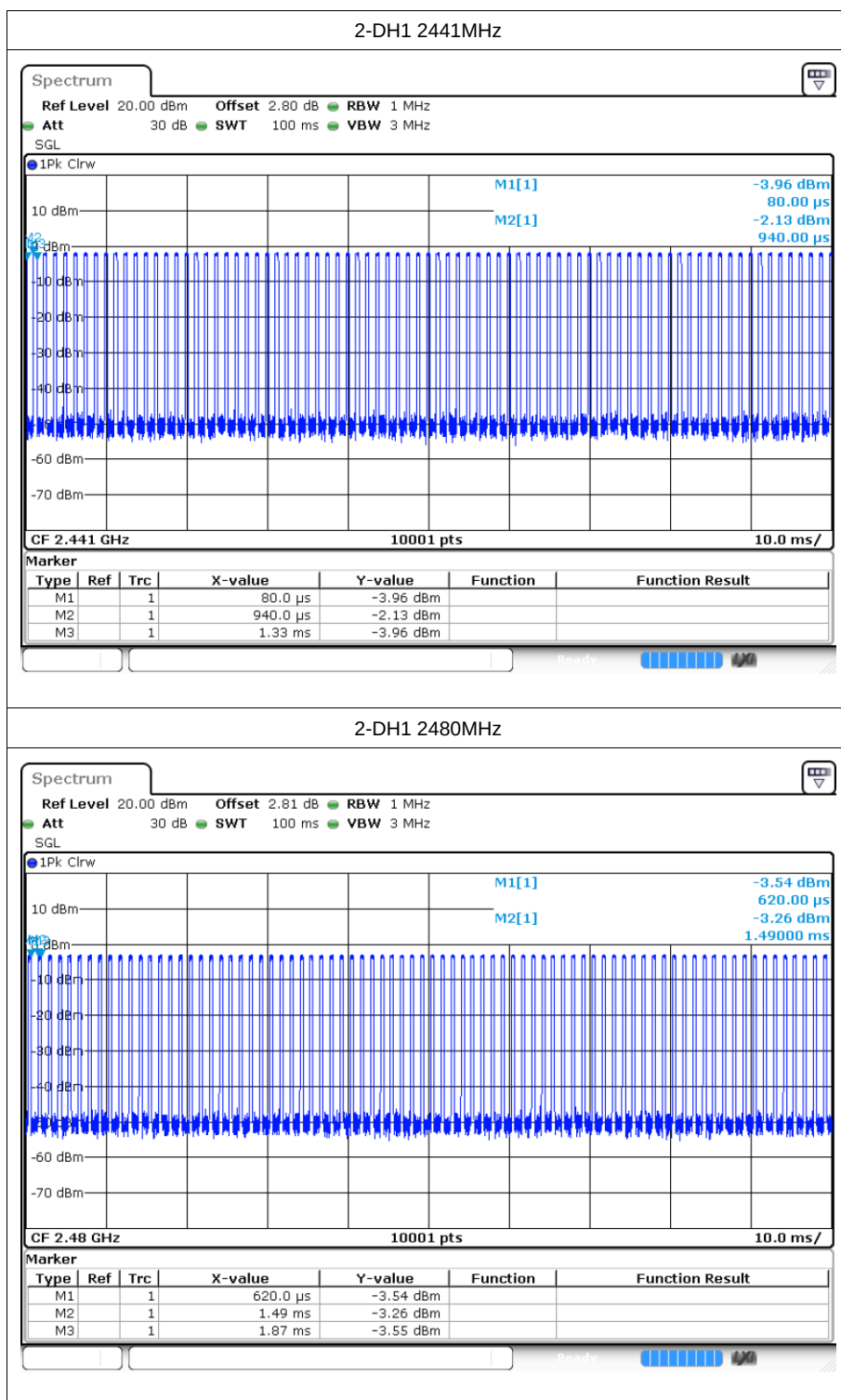
1.1 Test Result

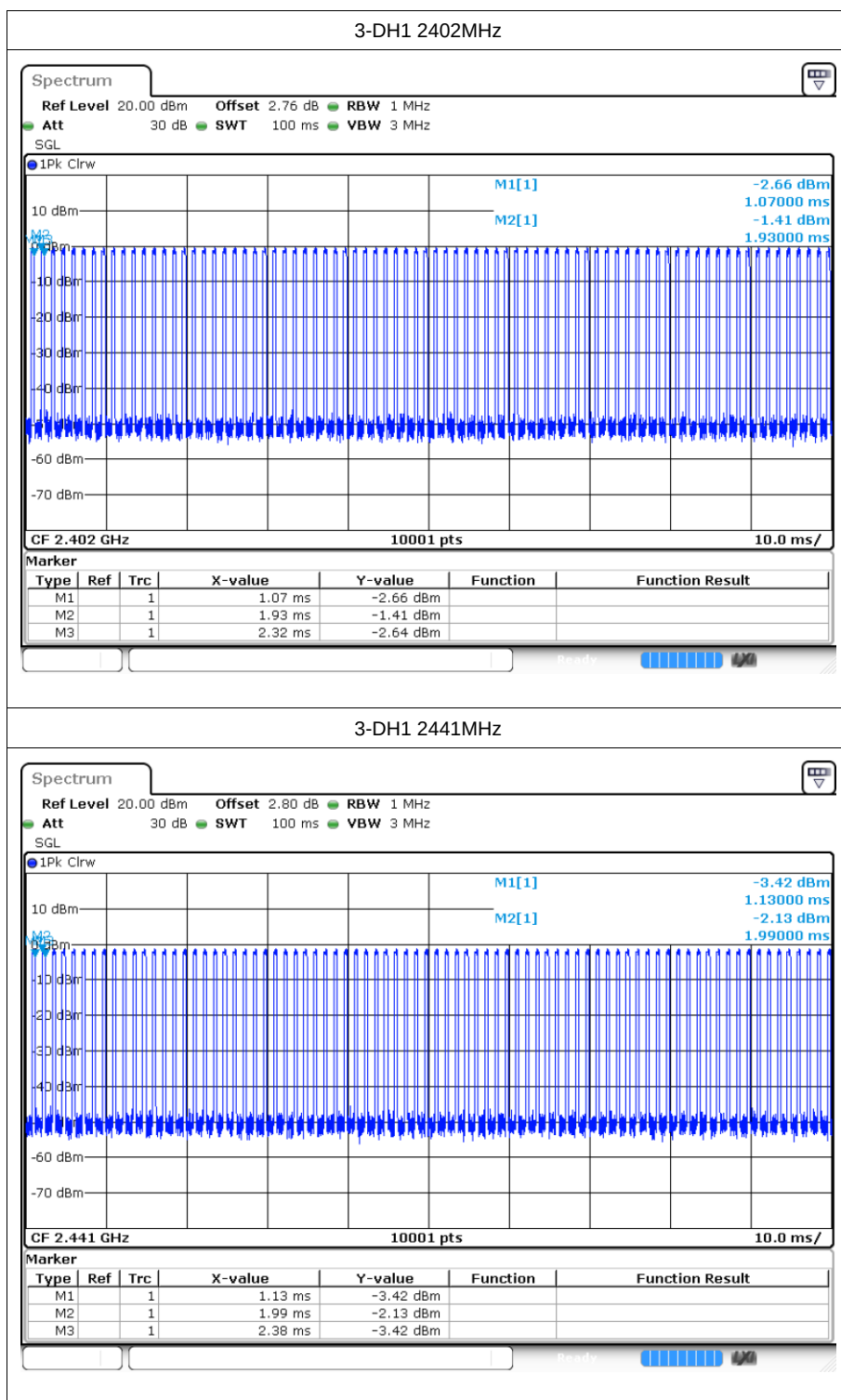
Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor	1/T (kHz)
1-DH1	2402	31.21	5.06	2.63
1-DH1	2441	31.21	5.06	2.63
1-DH1	2480	31.2	5.06	2.63
2-DH1	2402	32.01	4.95	2.56
2-DH1	2441	32.01	4.95	2.56
2-DH1	2480	31.2	5.06	2.63
3-DH1	2402	32	4.95	2.56
3-DH1	2441	32	4.95	2.56
3-DH1	2480	32	4.95	2.56

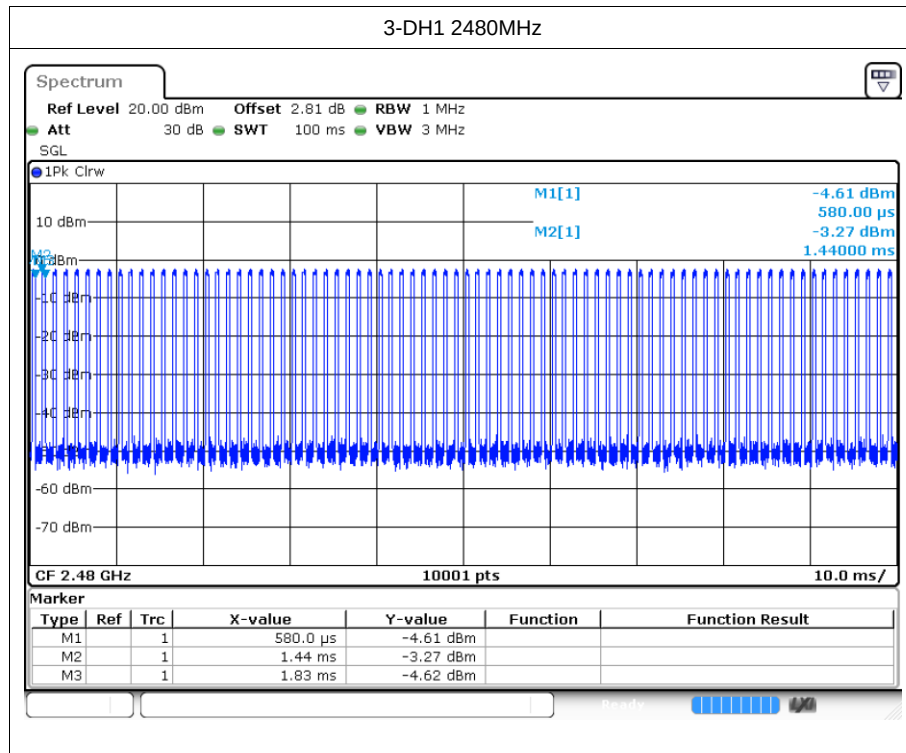
1.2 Test Graphs









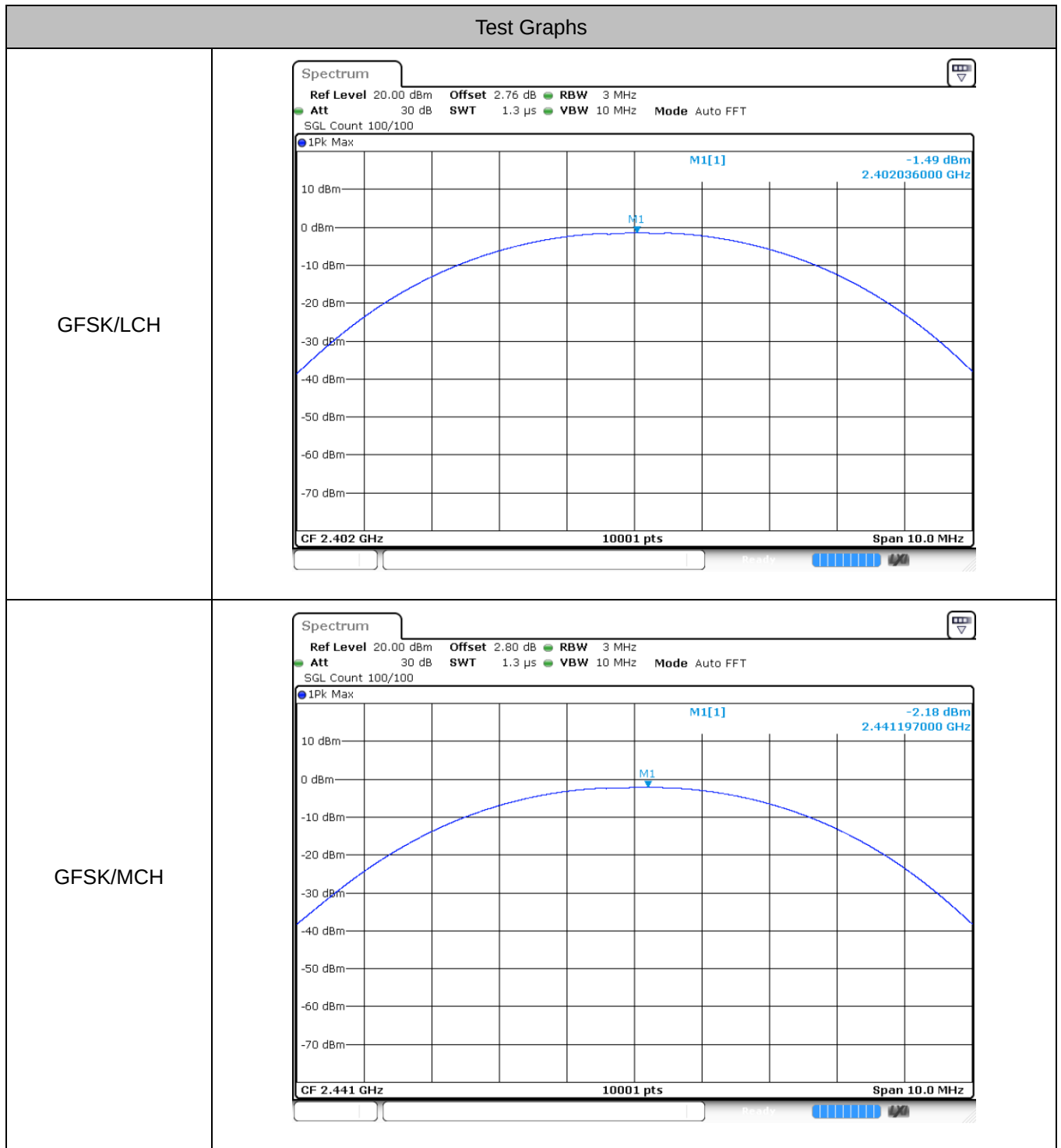


2 Maximum Conducted Peak Output Power

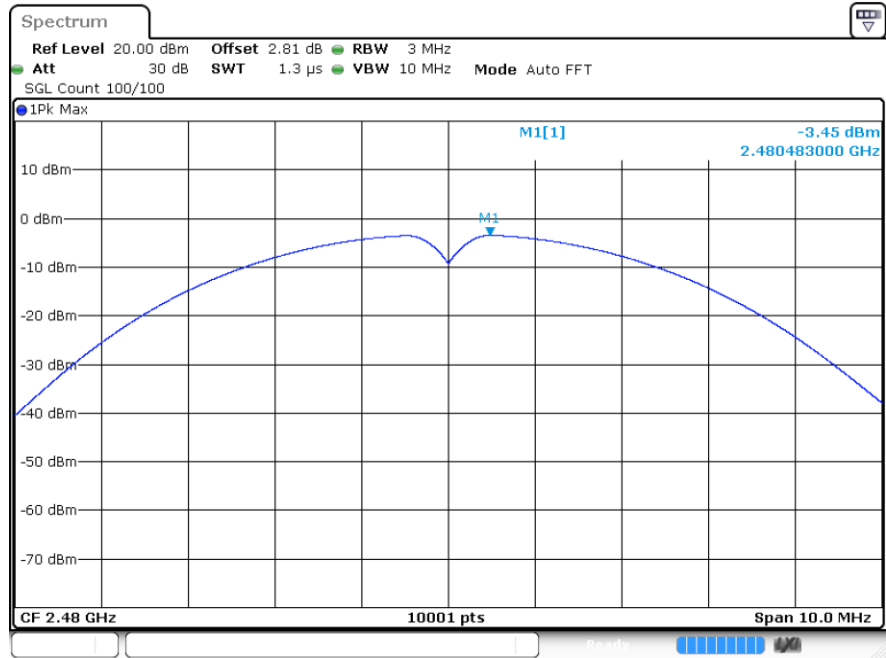
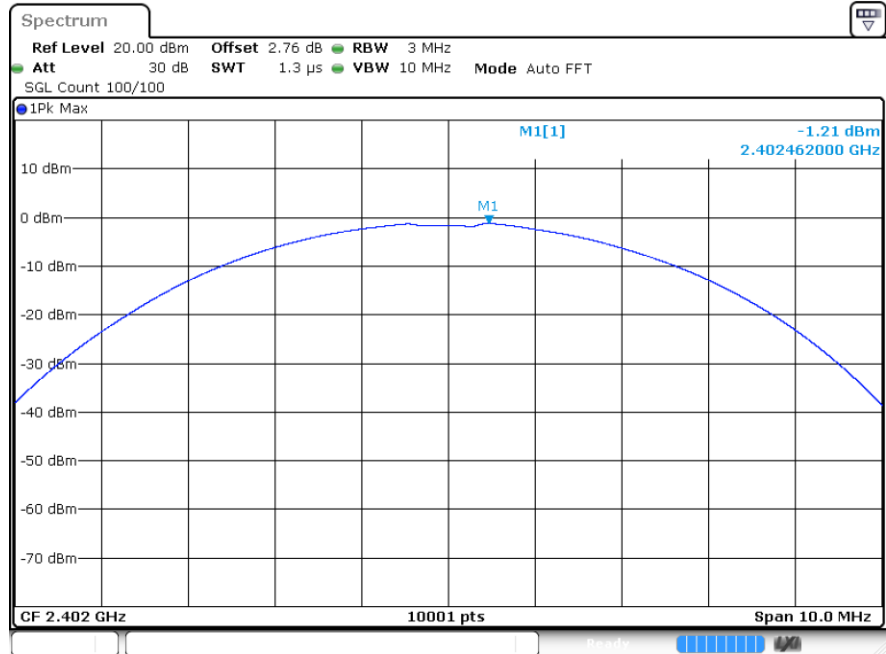
2.1 Test Result

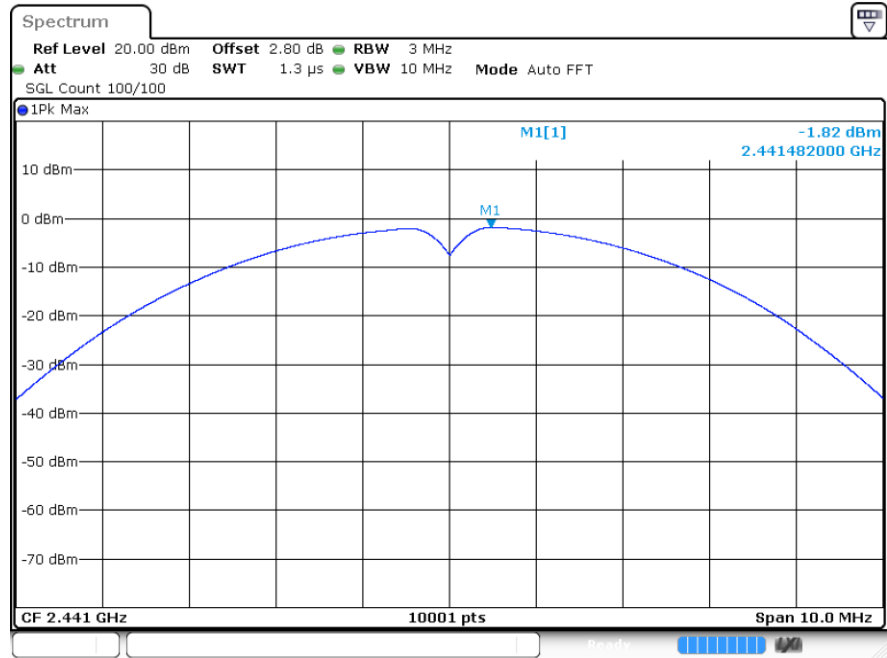
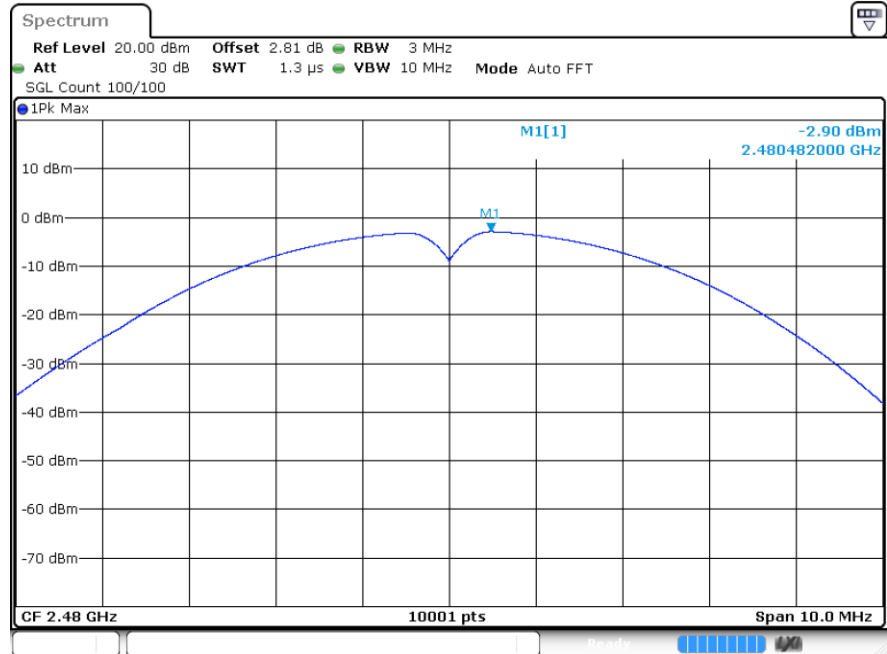
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-1.49	21	Pass
	MCH	-2.18	21	Pass
	HCH	-3.45	21	Pass
$\pi/4$ DQPSK	LCH	-1.21	21	Pass
	MCH	-1.82	21	Pass
	HCH	-2.9	21	Pass
8DPSK	LCH	-0.95	21	Pass
	MCH	-1.64	21	Pass
	HCH	-2.87	21	Pass

2.2 Test Graphs

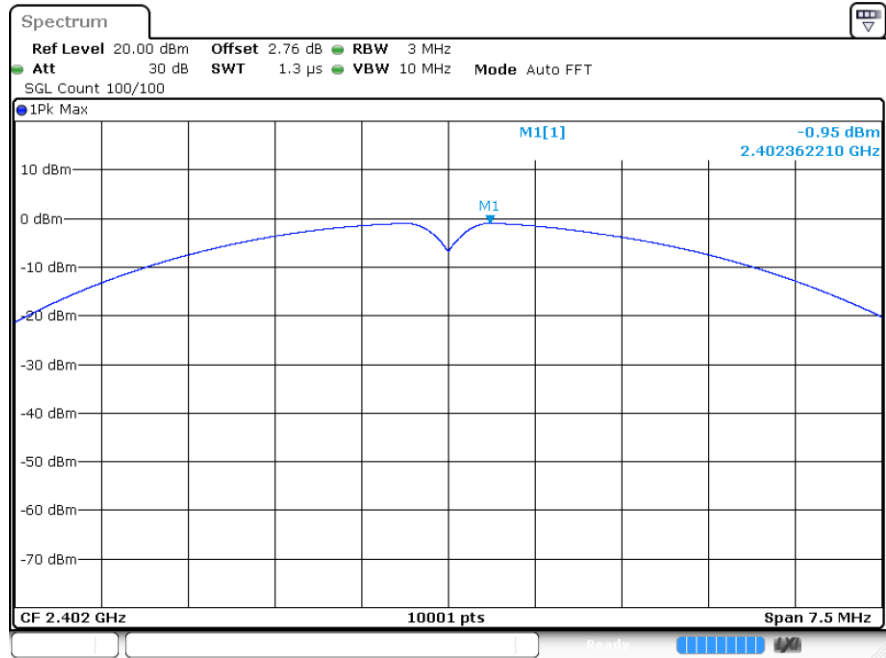


GFSK/HCH

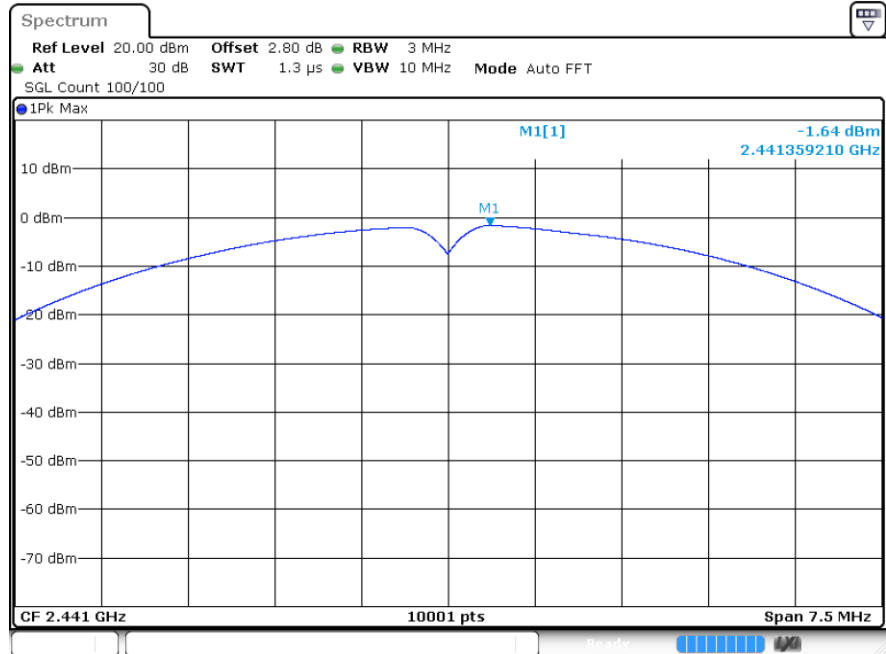

 $\pi/4$ DQPSK/LCH


$\pi/4$ DQPSK/MCH

 $\pi/4$ DQPSK/HCH


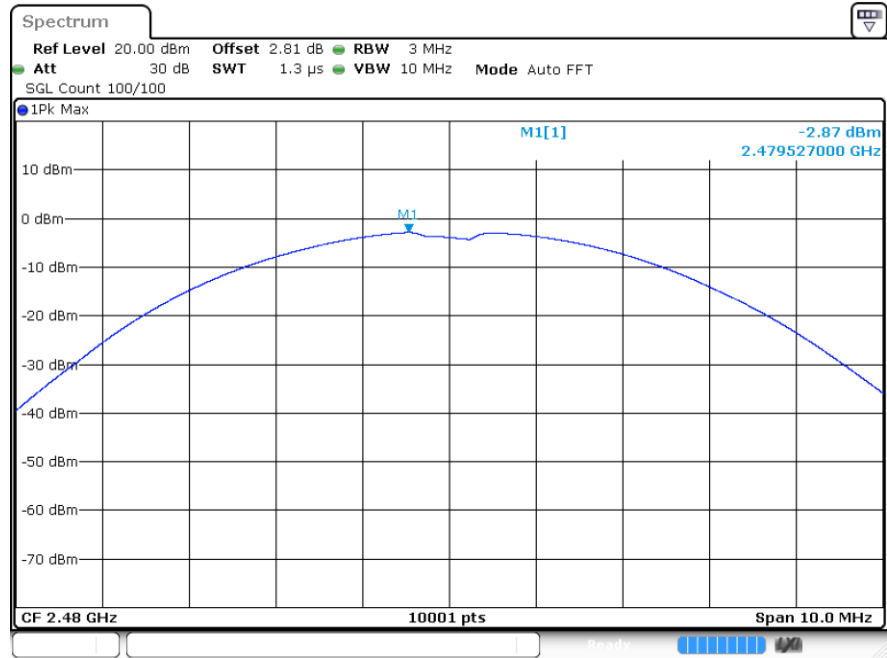
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

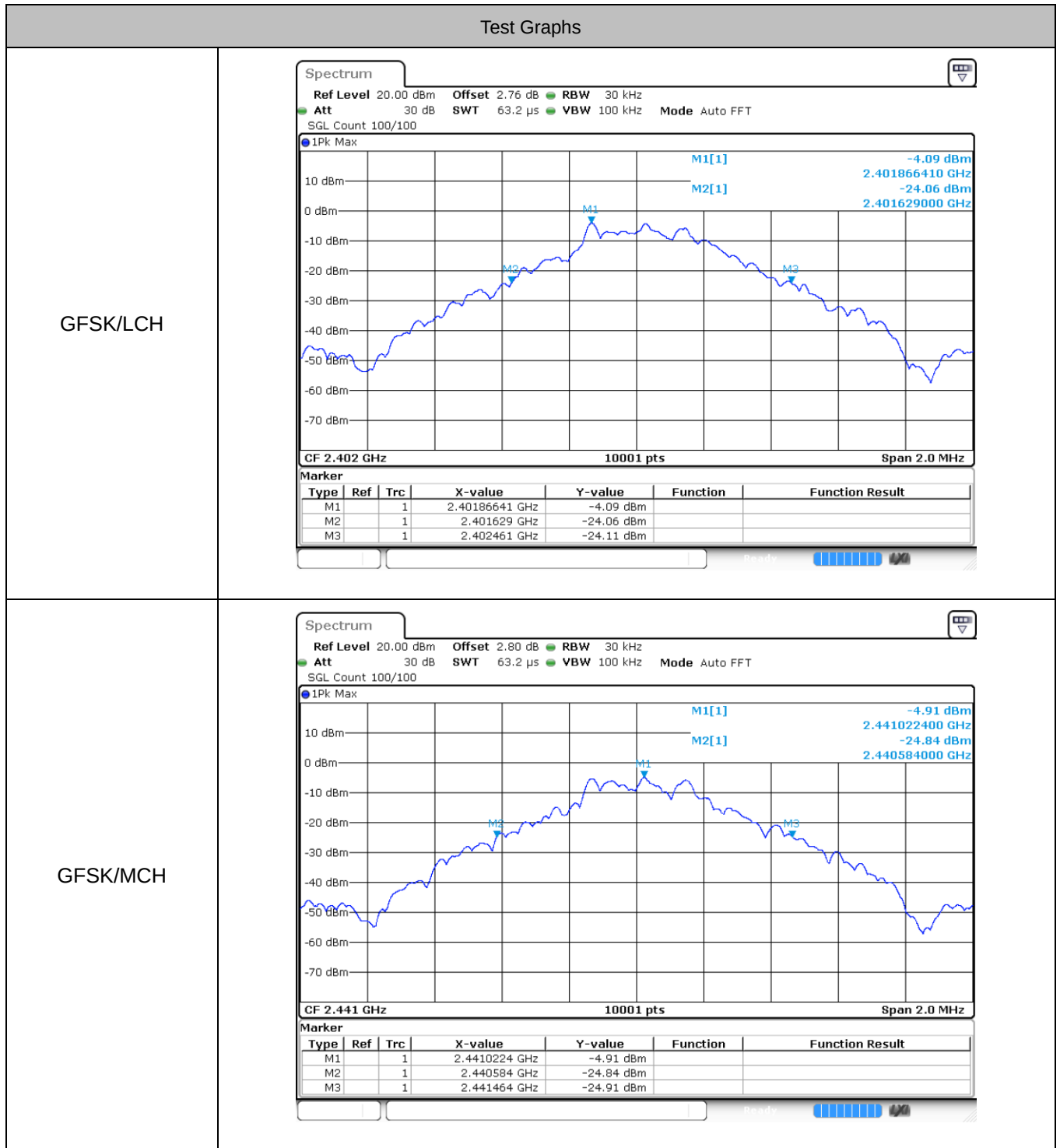


3 20dB Bandwidth

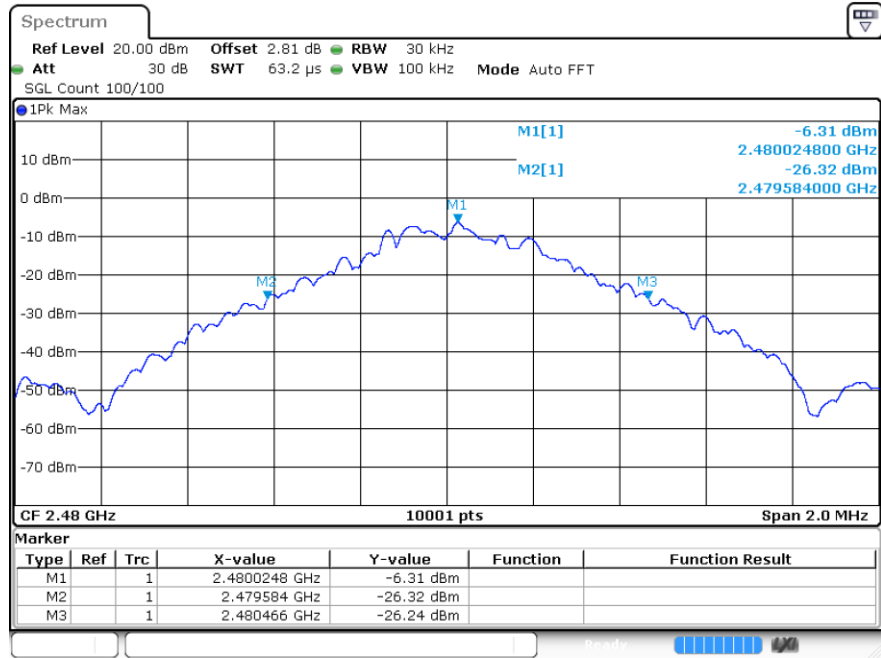
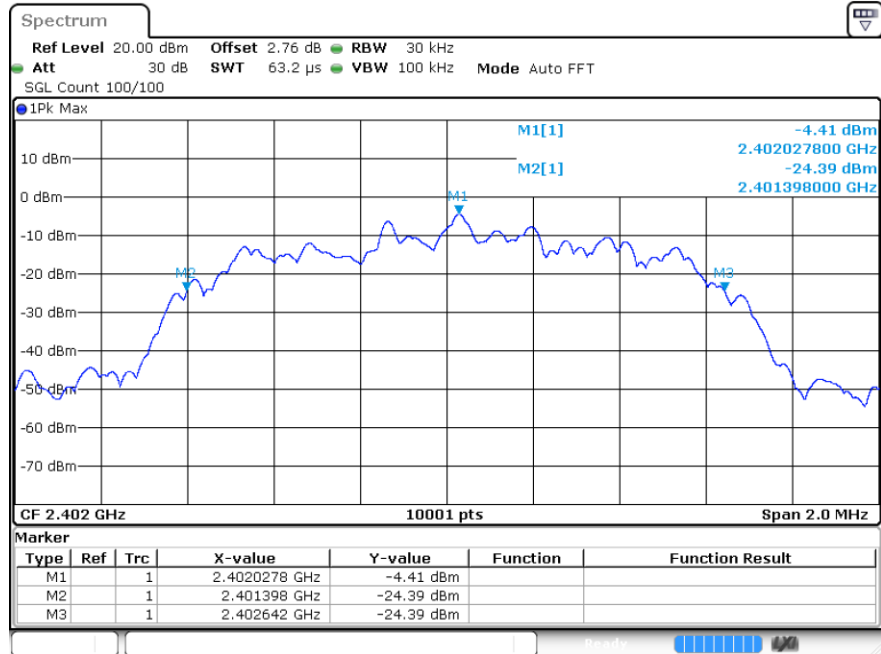
3.1 Test Result

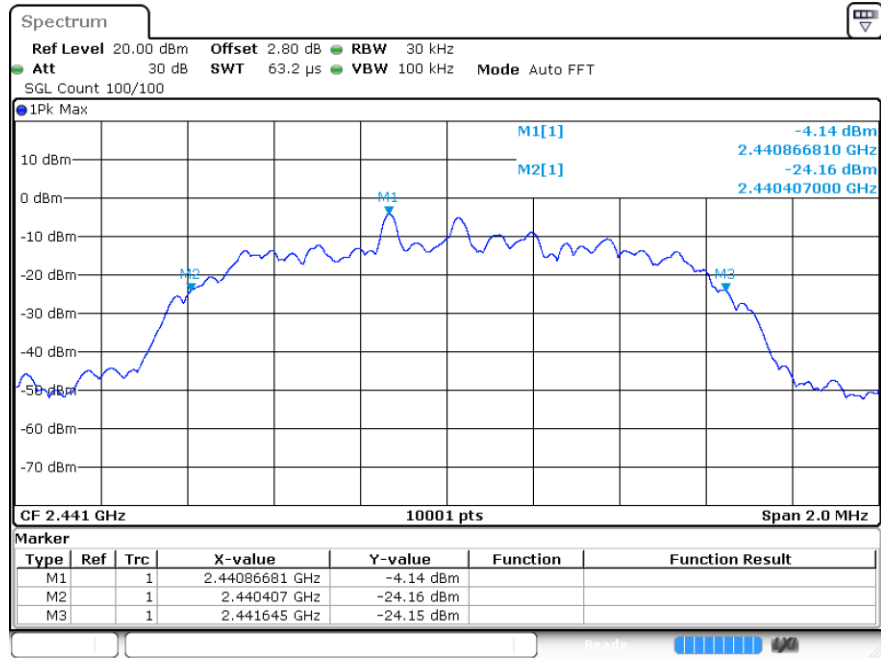
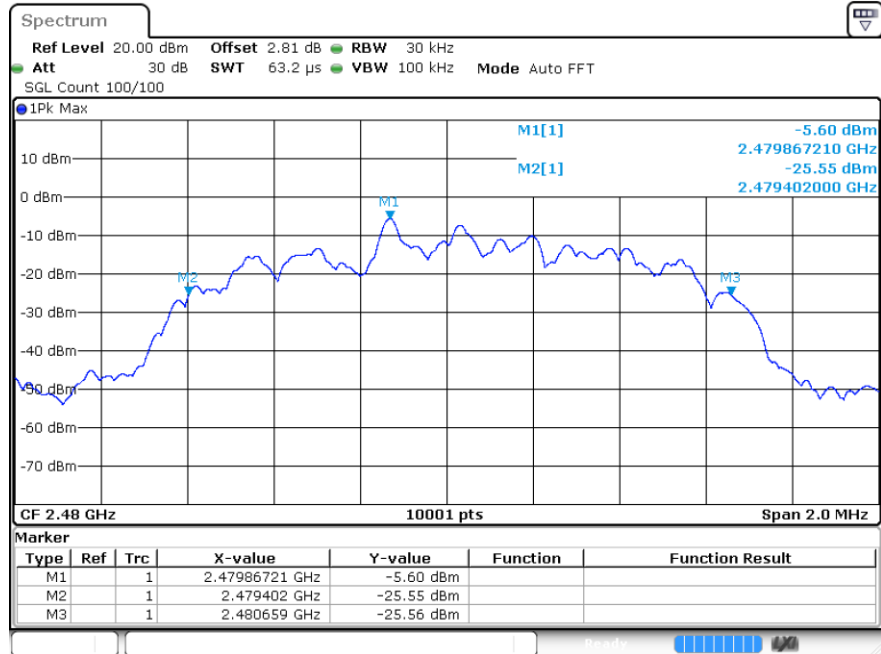
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.832	Not Specified	Pass
	MCH	0.88	Not Specified	Pass
	HCH	0.882	Not Specified	Pass
$\pi/4$ DQPSK	LCH	1.244	Not Specified	Pass
	MCH	1.238	Not Specified	Pass
	HCH	1.257	Not Specified	Pass
8DPSK	LCH	1.21	Not Specified	Pass
	MCH	1.209	Not Specified	Pass
	HCH	1.198	Not Specified	Pass

3.2 Test Graphs

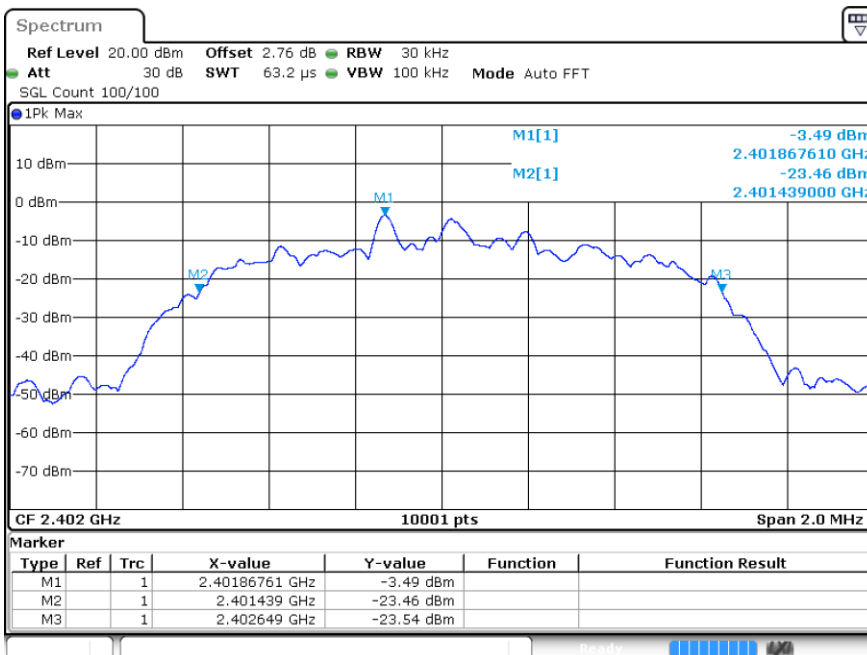


GFSK/HCH

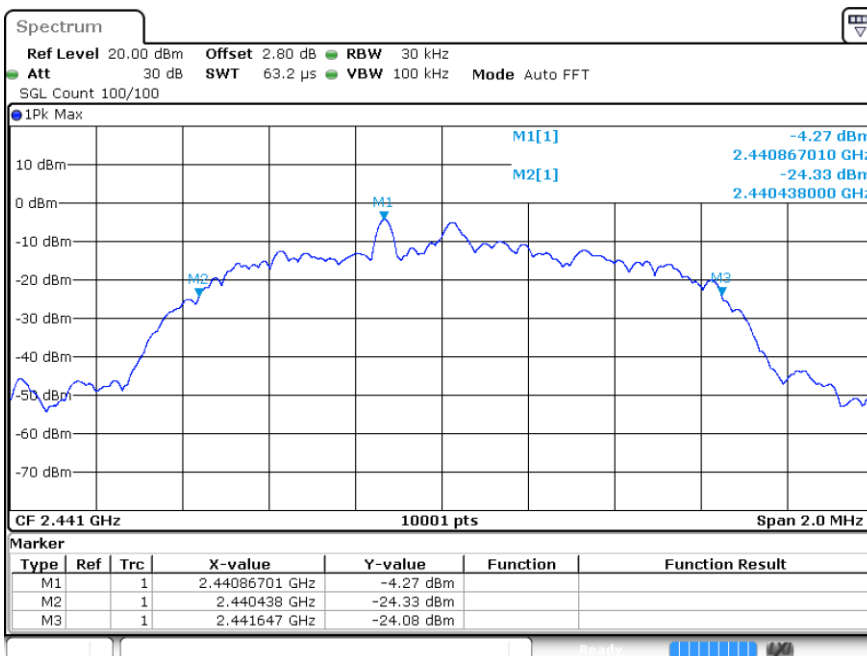

 $\pi/4$ DQPSK/LCH


$\pi/4$ DQPSK/MCH

 $\pi/4$ DQPSK/HCH


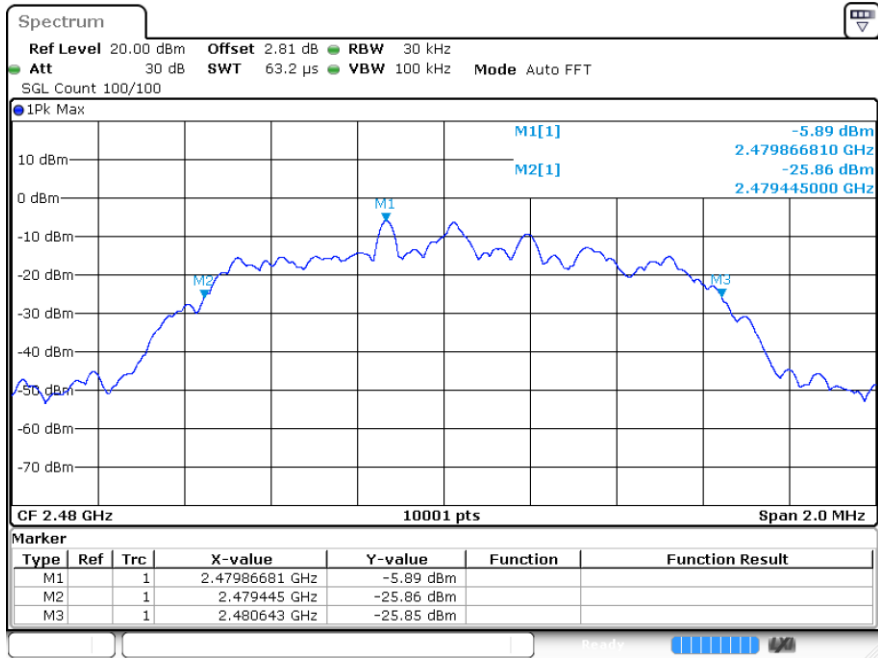
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

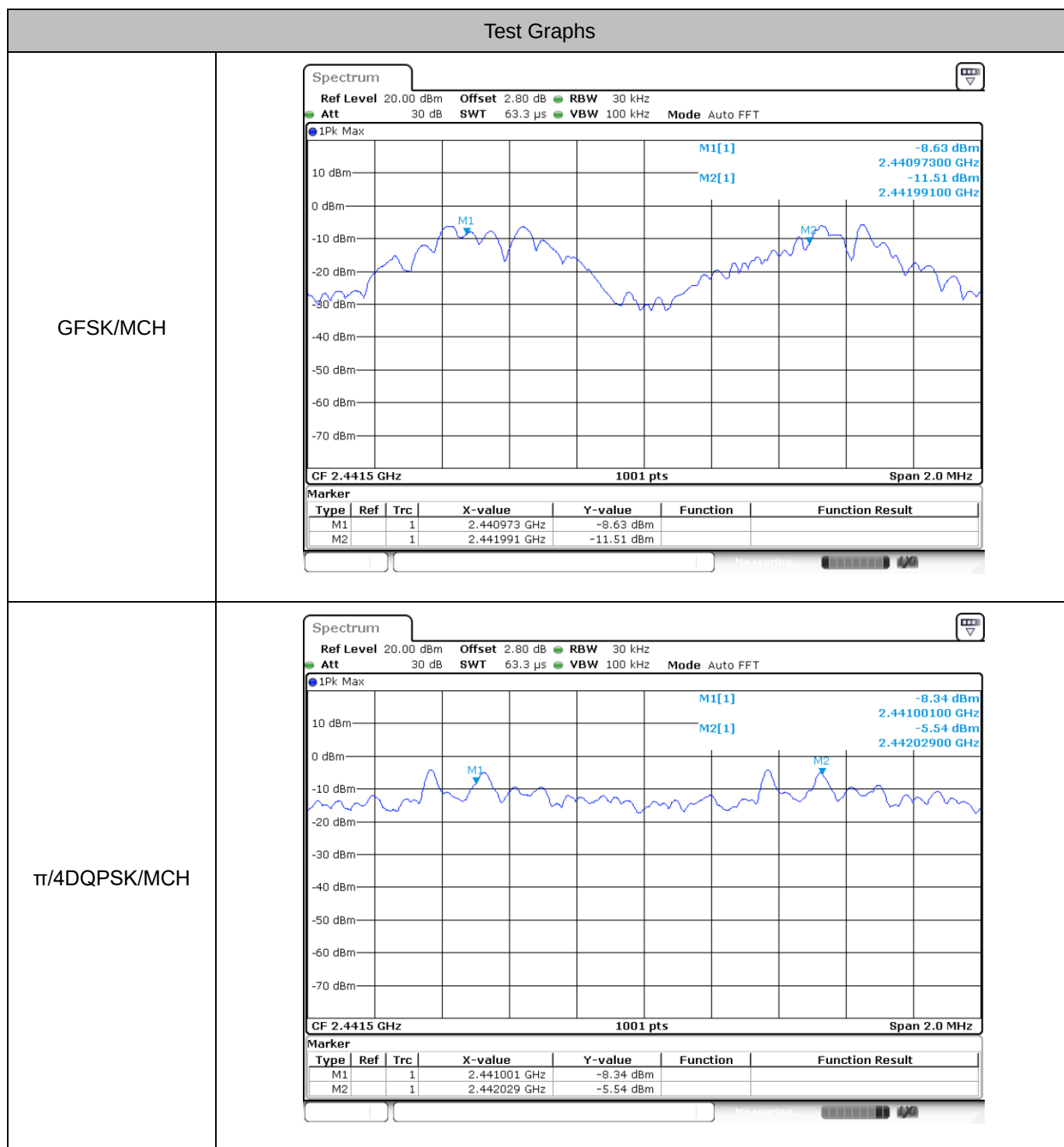


4 Carrier Frequency Separation

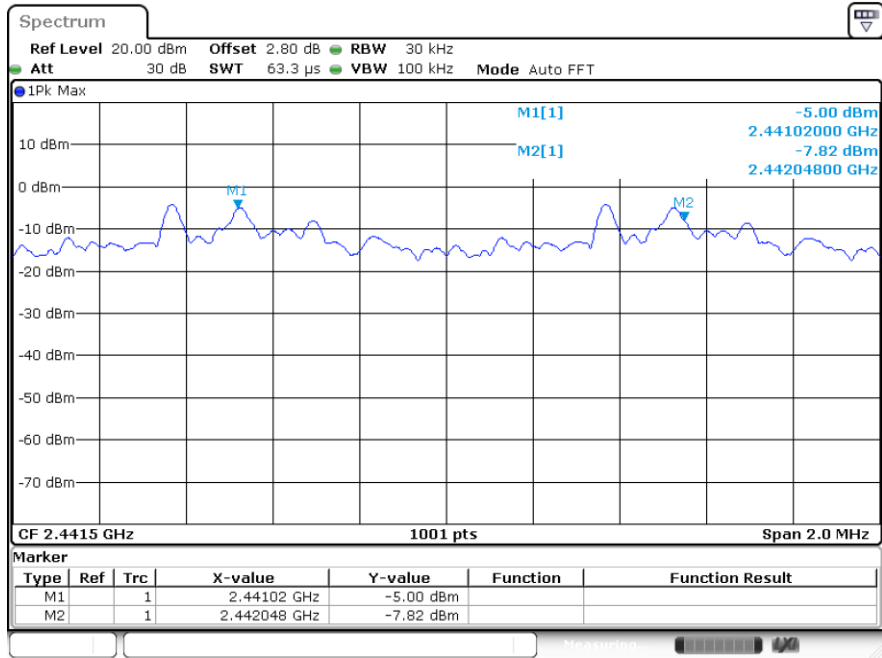
4.1 Test Result

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	1.018	0.587	Pass
$\pi/4$ DQPSK	MCH	1.028	0.825	Pass
8DPSK	MCH	1.028	0.806	Pass

4.2 Test Graphs



8DPSK/MCH

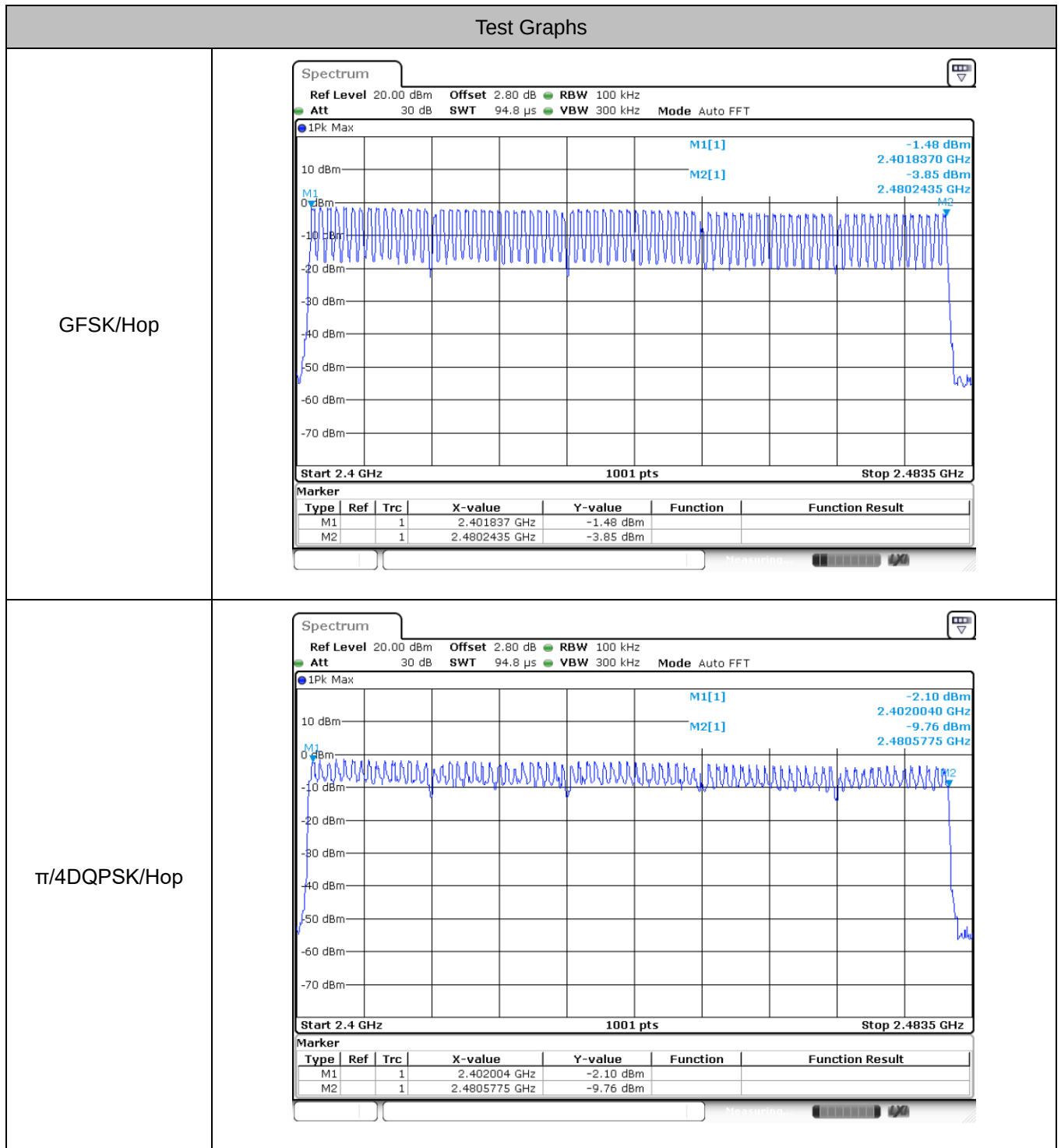


5 Hopping Channel Number

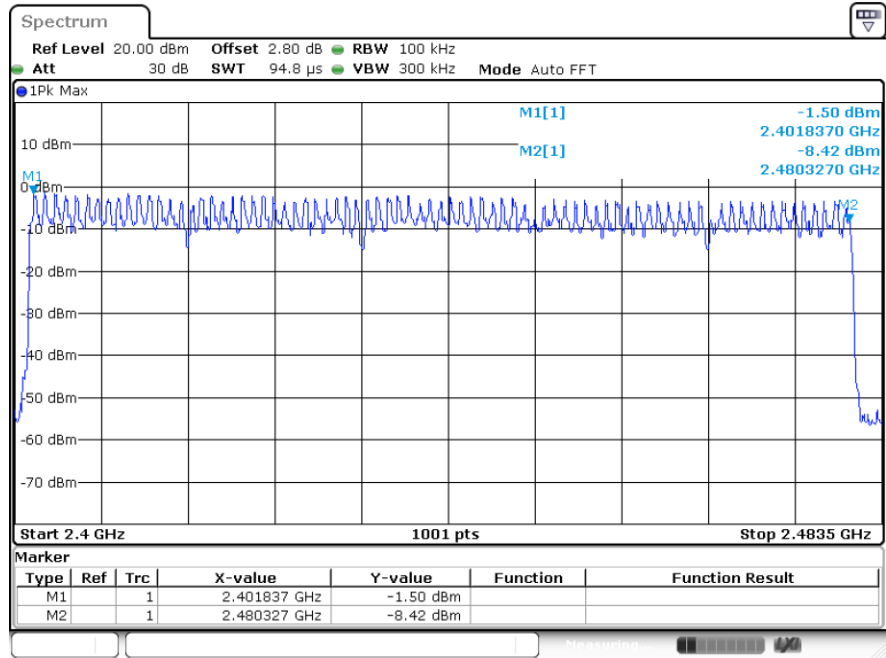
5.1 Test Result

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

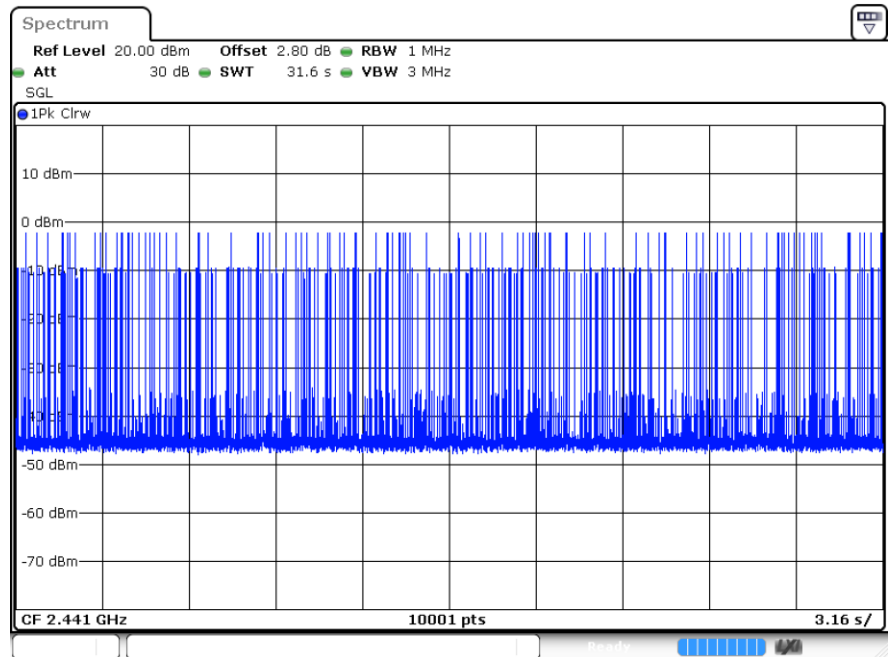
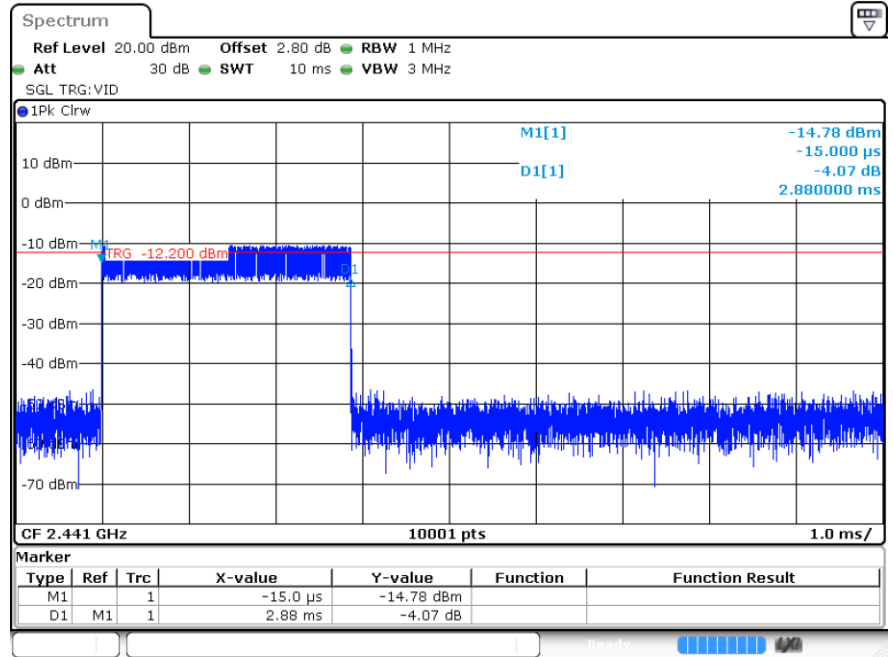
6.1 Test Result

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Limit [s]	Verdict
GFSK	DH5	MCH	2.88	107	308.16	0.4	Pass
$\pi/4$ DQPSK	2DH5	MCH	2.887	114	329.118	0.4	Pass
8DPSK	3DH5	MCH	2.888	118	340.784	0.4	Pass

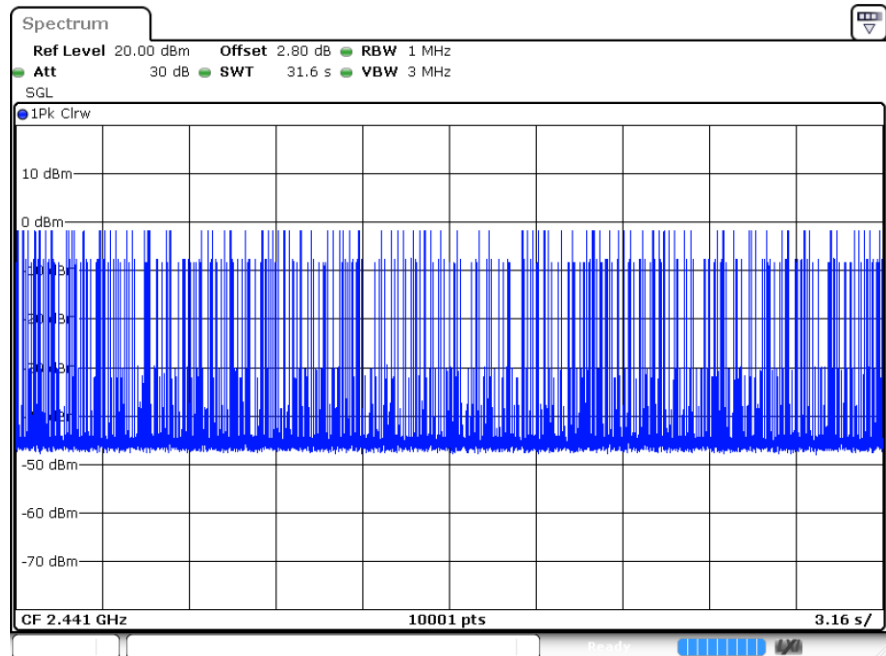
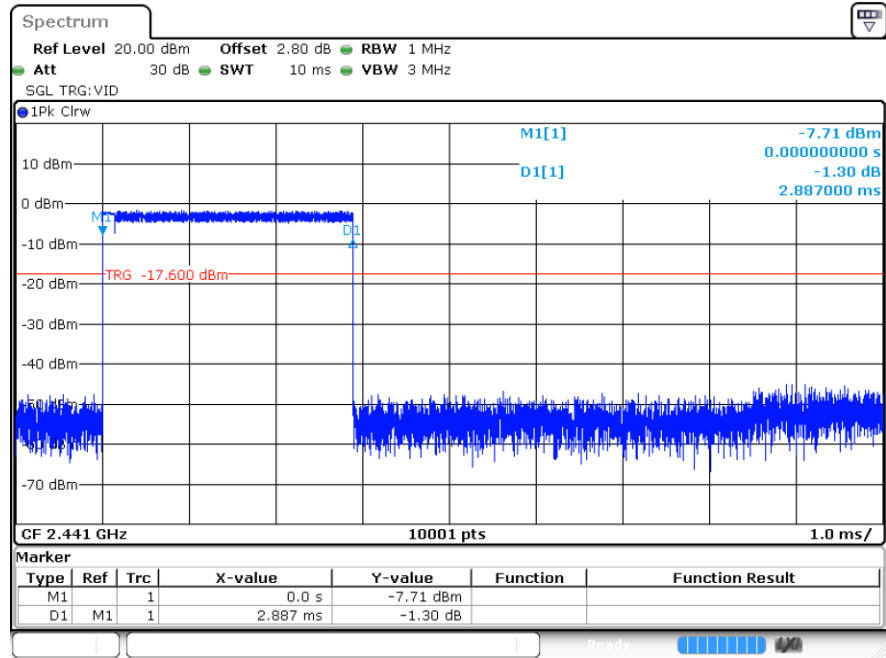
6.2 Test Graphs

GFSK_DH5/MCH

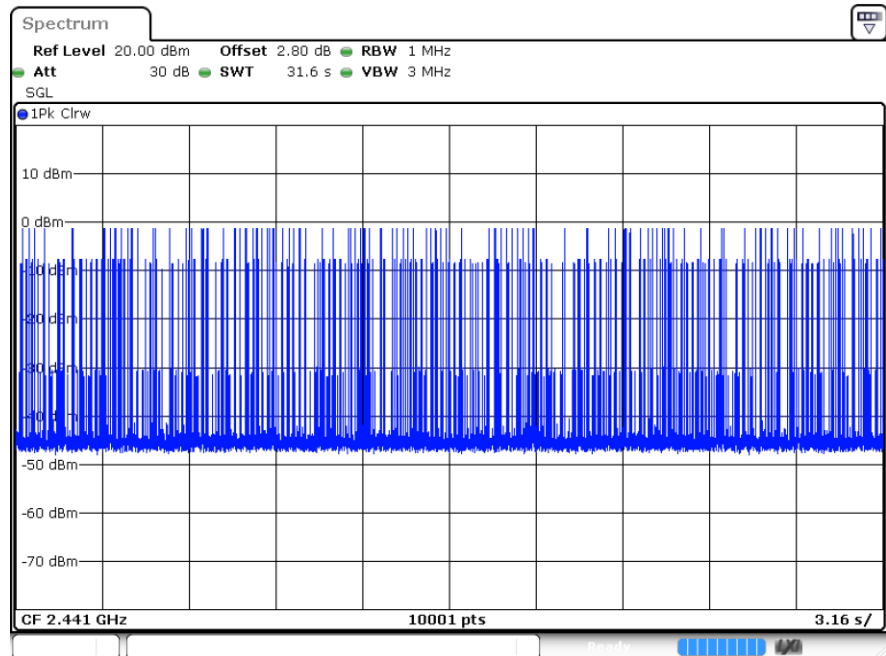
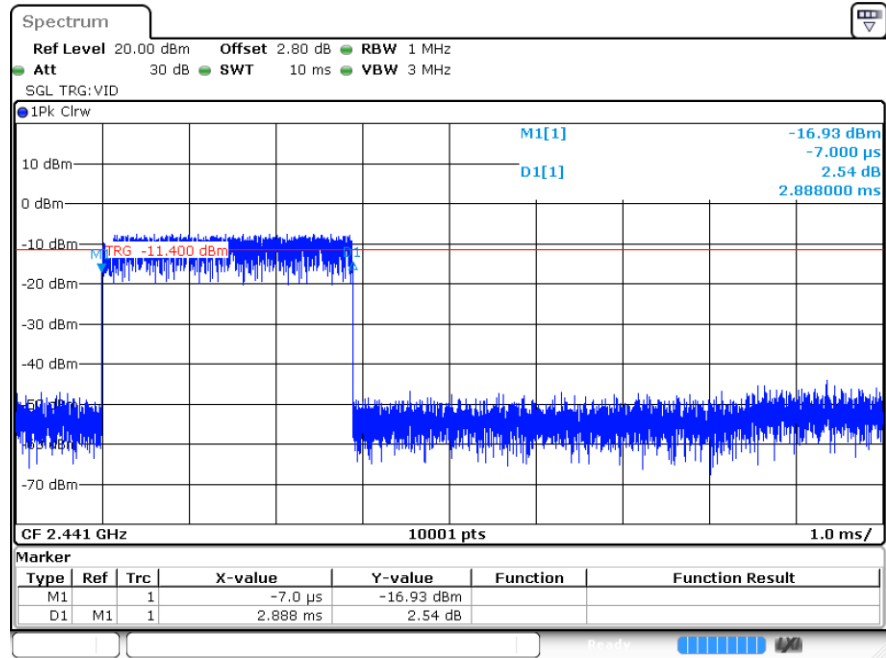
Test Graphs



$\pi/4$ DQPSK
_2DH5/MCH



8DPSK_3DH5/MCH

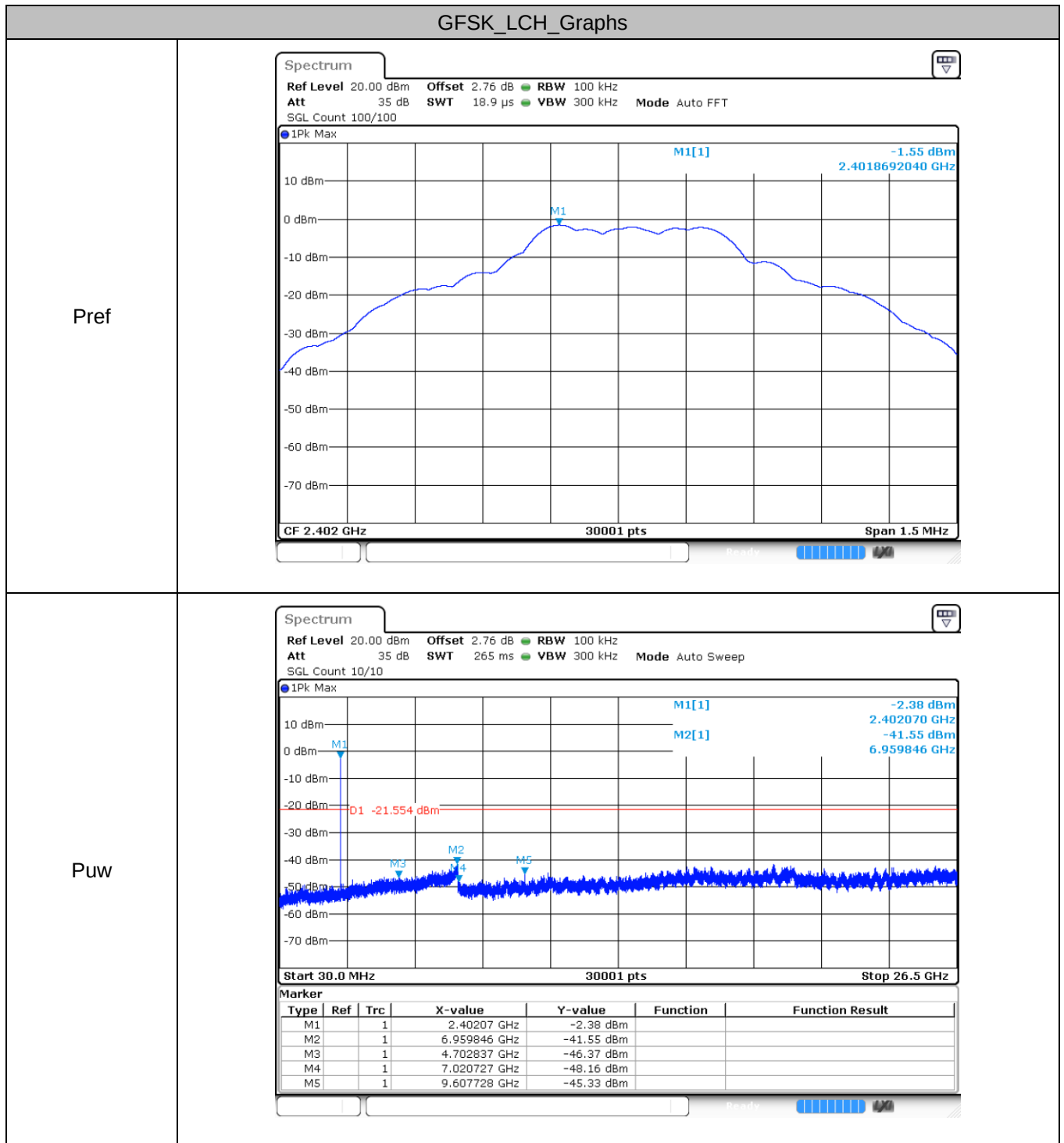


7 RF Conducted Spurious Emissions

7.1 Test Result

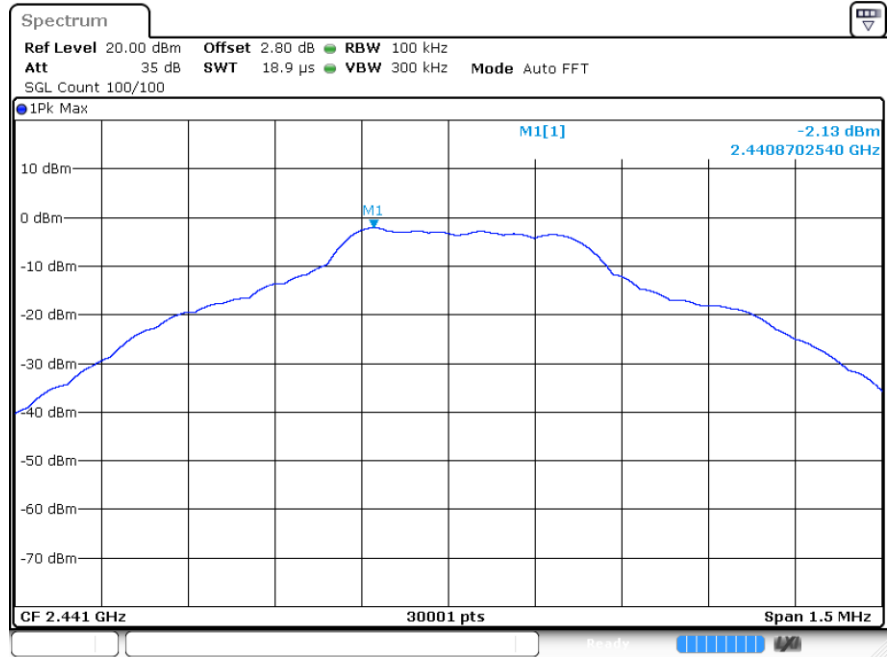
Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-39.99	-20	Pass
	MCH	-38.62	-20	Pass
	HCH	-37.86	-20	Pass
$\pi/4$ DQPSK	LCH	-39.64	-20	Pass
	MCH	-39.59	-20	Pass
	HCH	-37.69	-20	Pass
8DPSK	LCH	-38.15	-20	Pass
	MCH	-38.9	-20	Pass
	HCH	-38.32	-20	Pass

7.2 Test Graphs

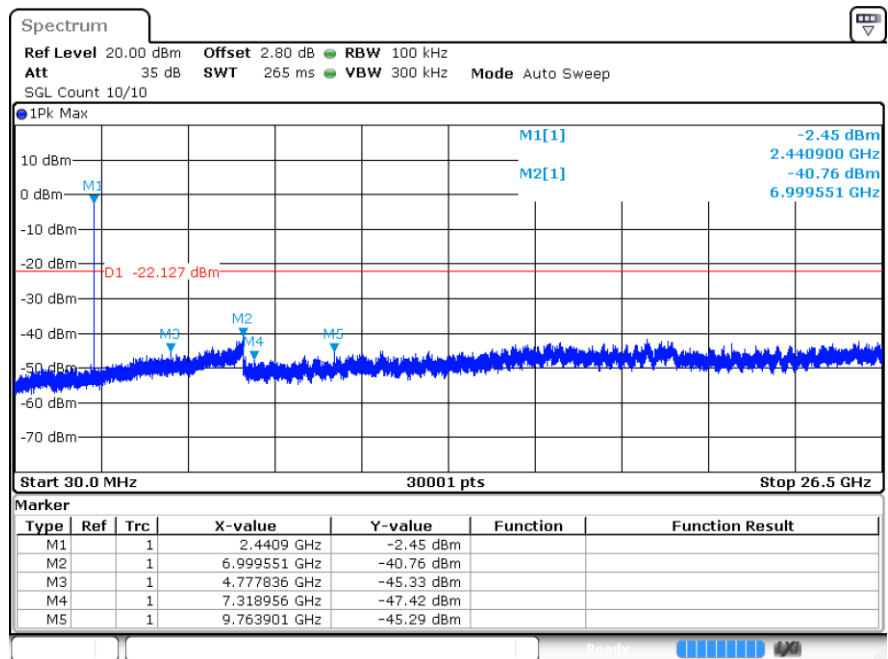


GFSK_MCH_Graphs

Pref

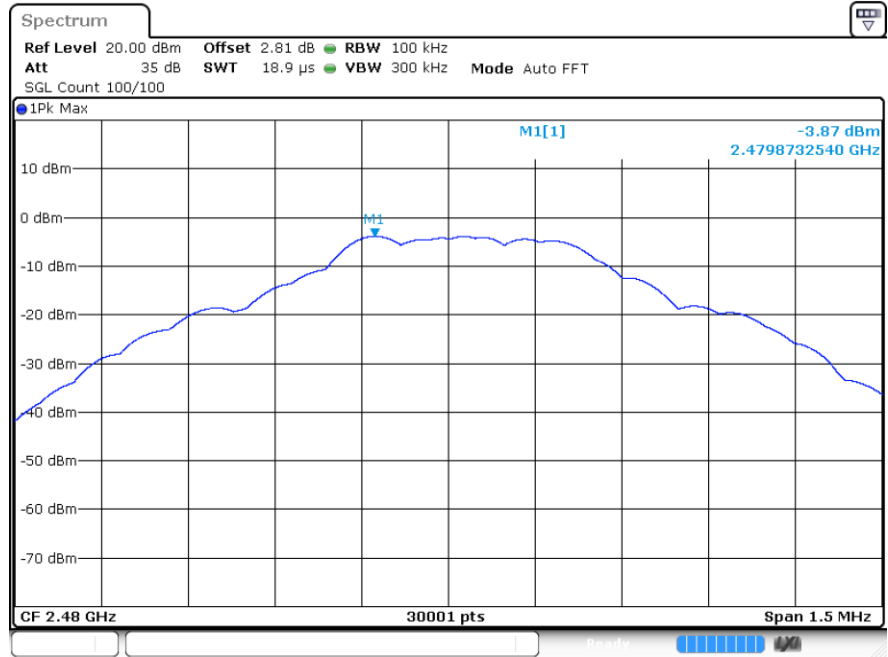


Puw

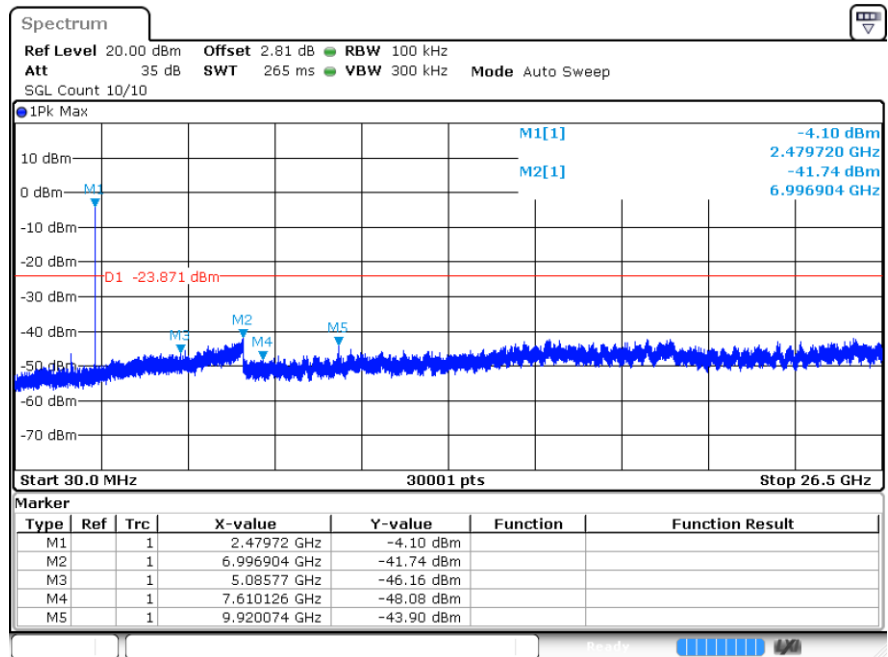


GFSK_HCH_Graphs

Pref

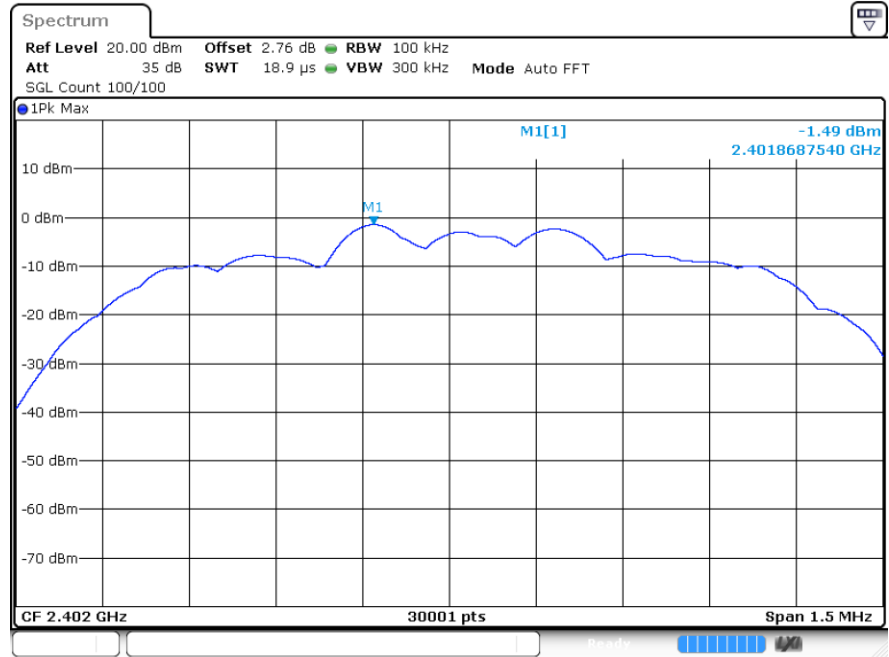


Puw

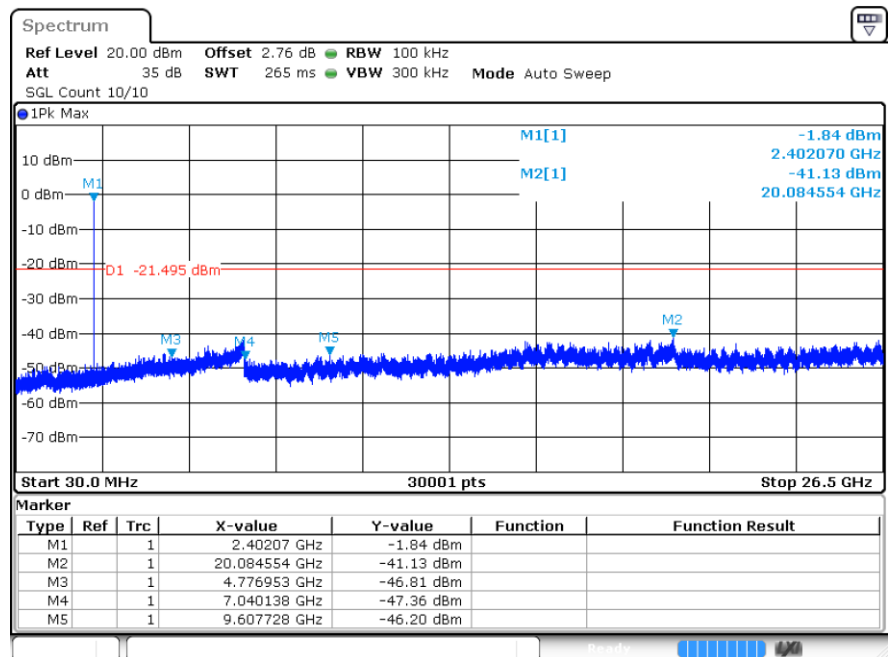


$\pi/4$ DQPSK_LCH_Graphs

Pref

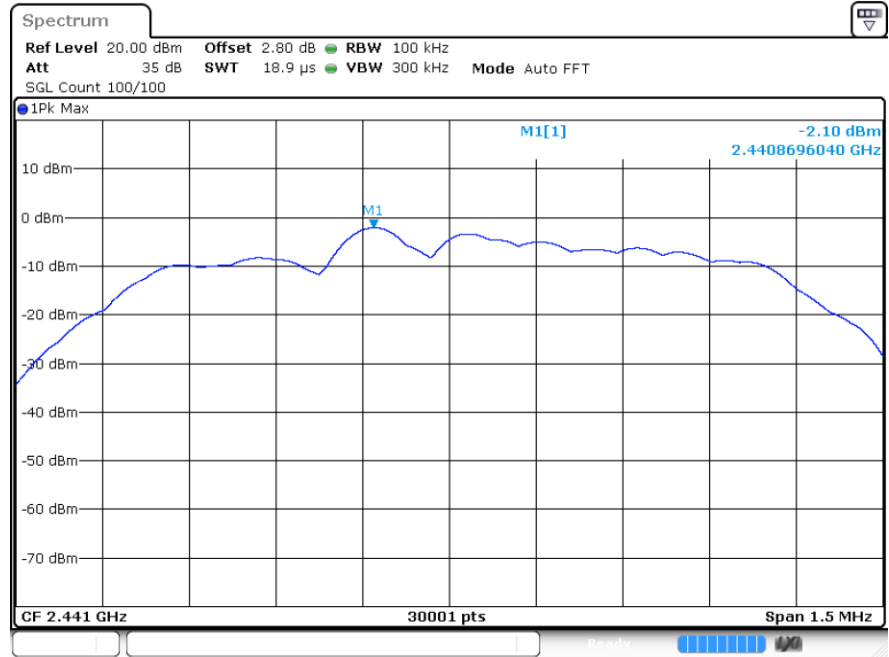


Puw

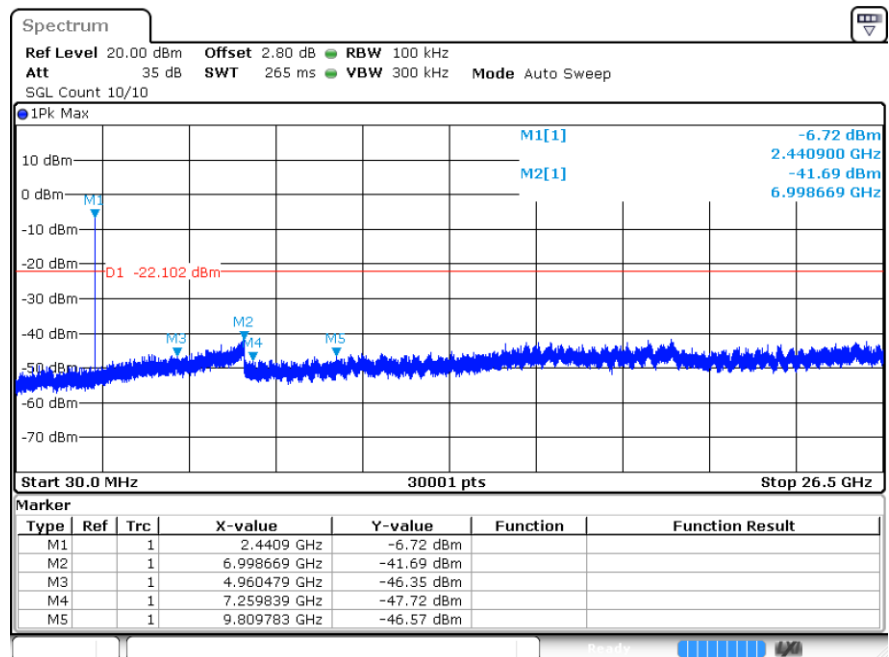


π /4DQPSK_MCH_Graphs

Pref

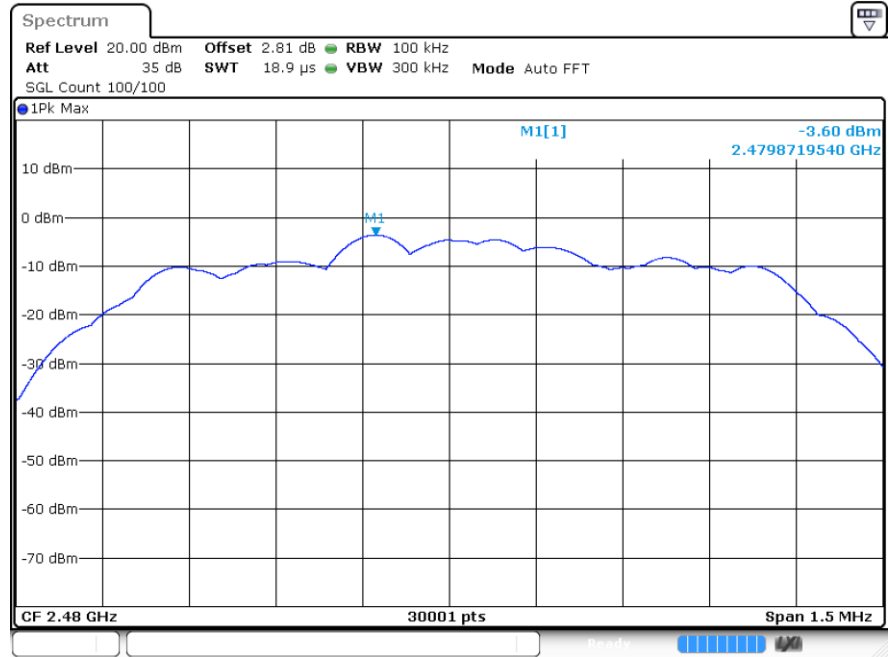


Puw

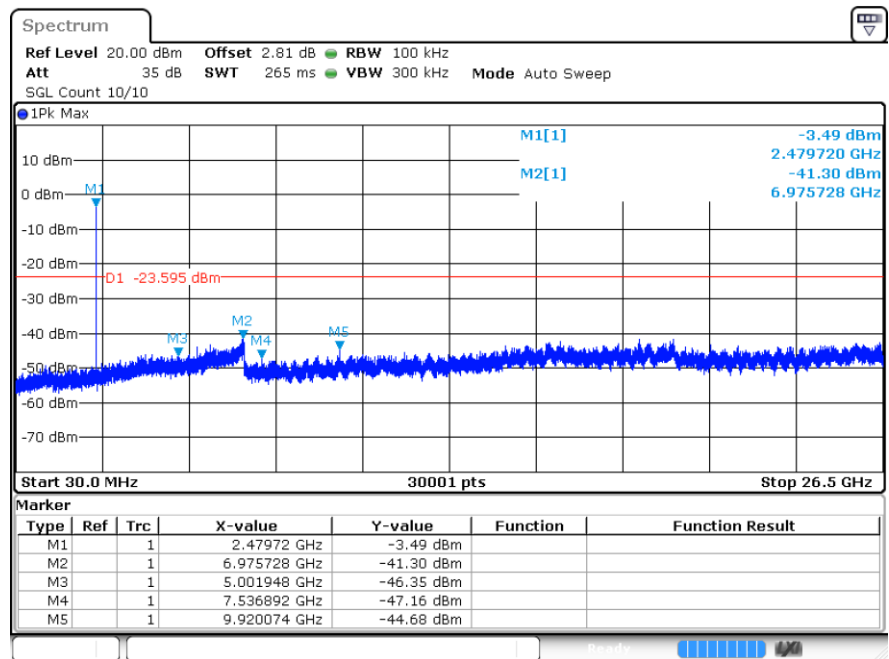


$\pi/4$ DQPSK_HCH_Graphs

Pref

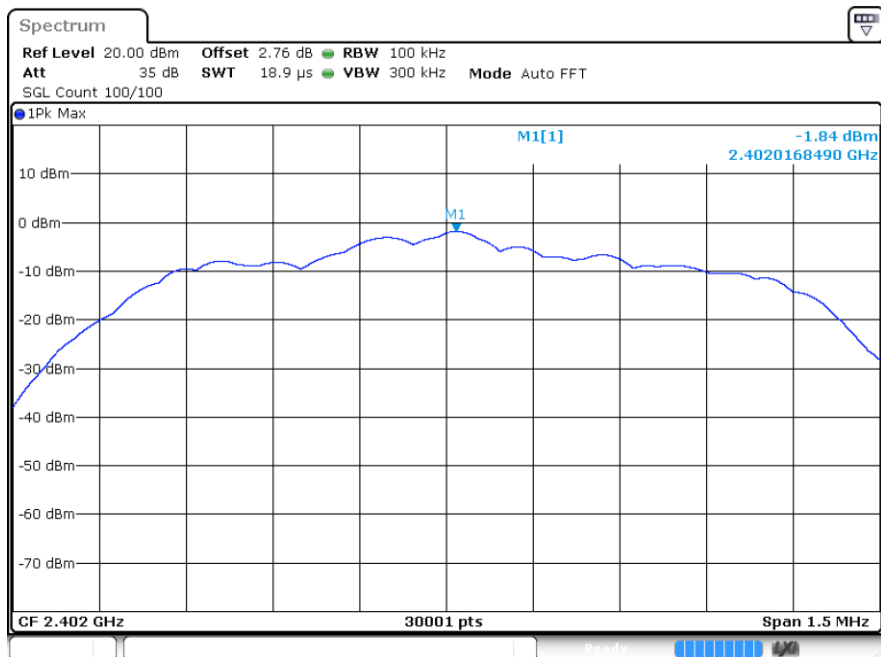


Puw

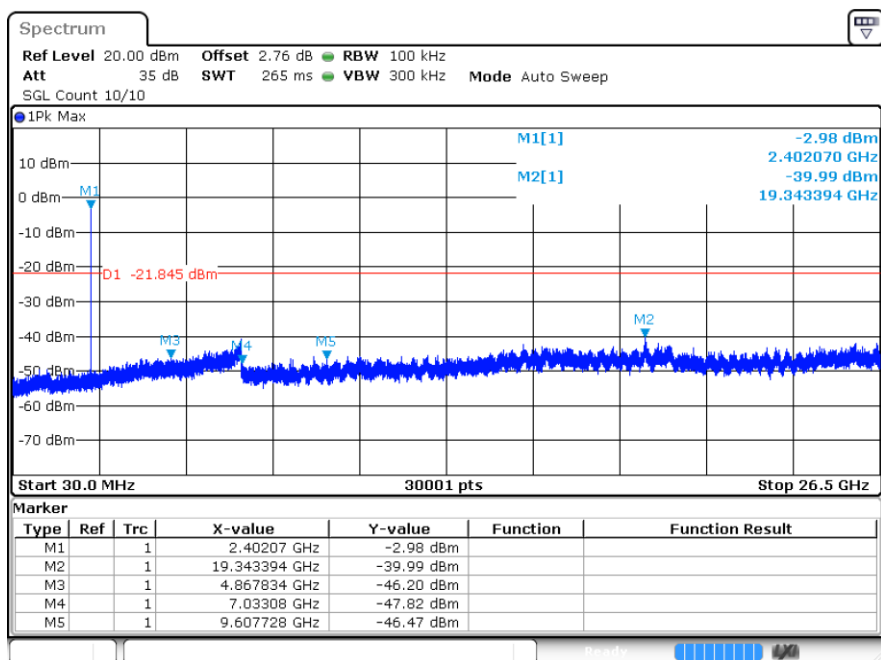


8DPSK_LCH_Graphs

Pref

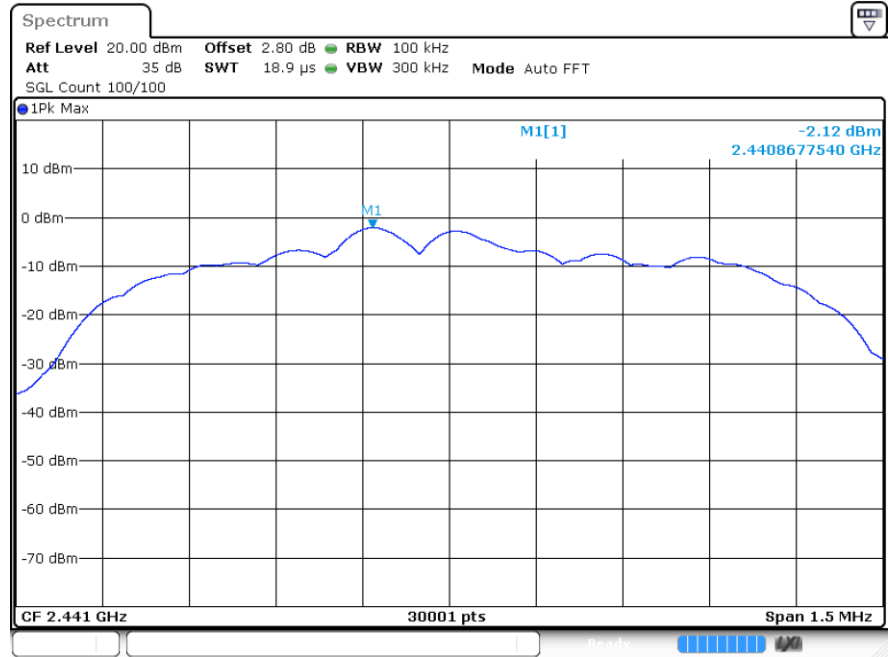


Puw

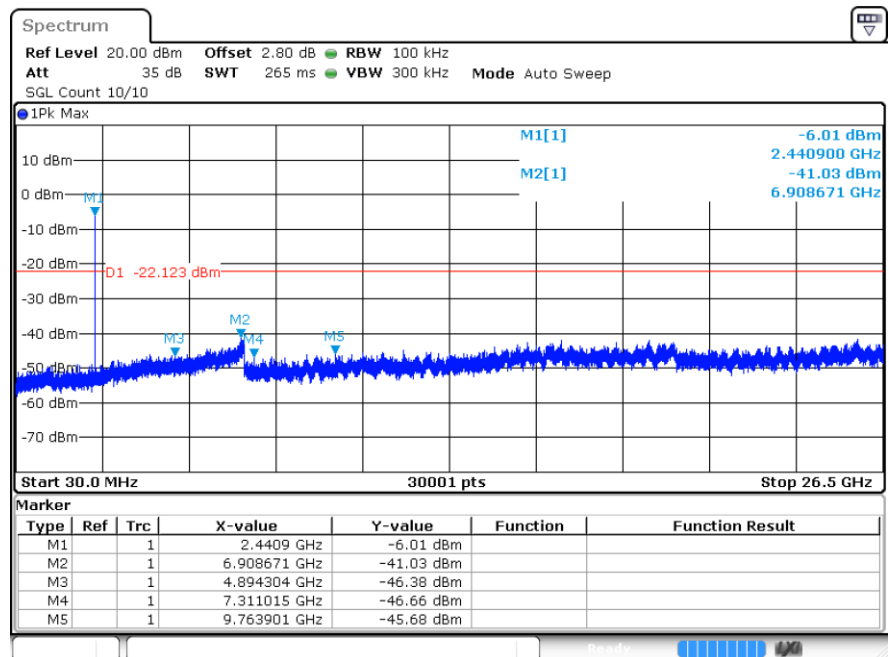


8DPSK_MCH_Graphs

Pref

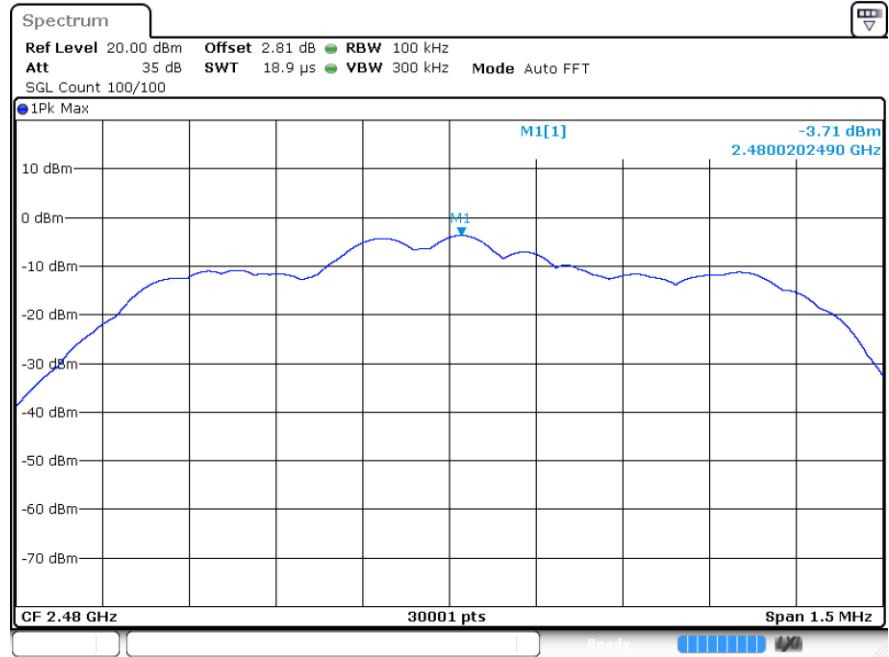


Puw

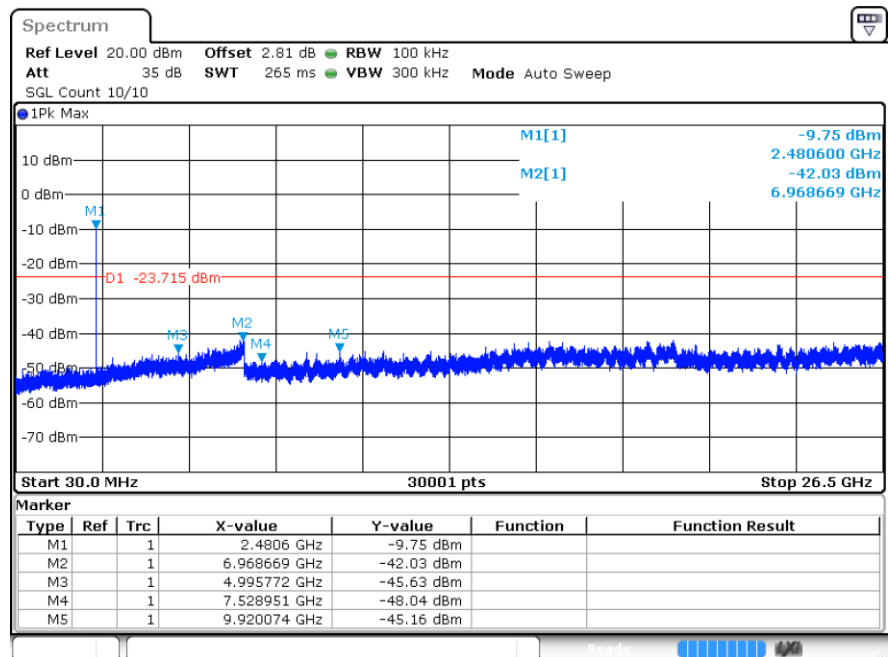


8DPSK_HCH_Graphs

Pref



Puw

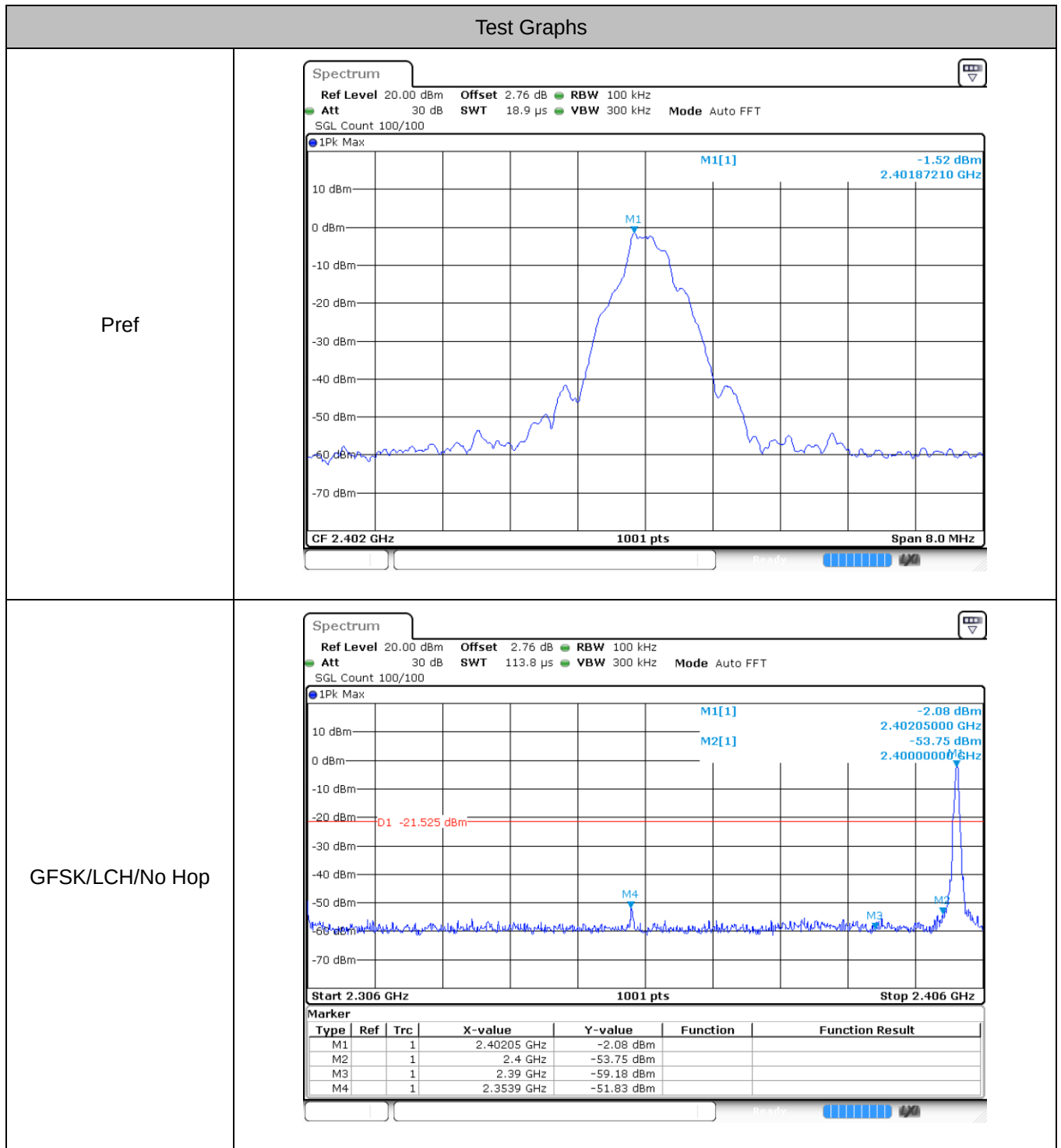


8 Band-edge for RF Conducted Emissions

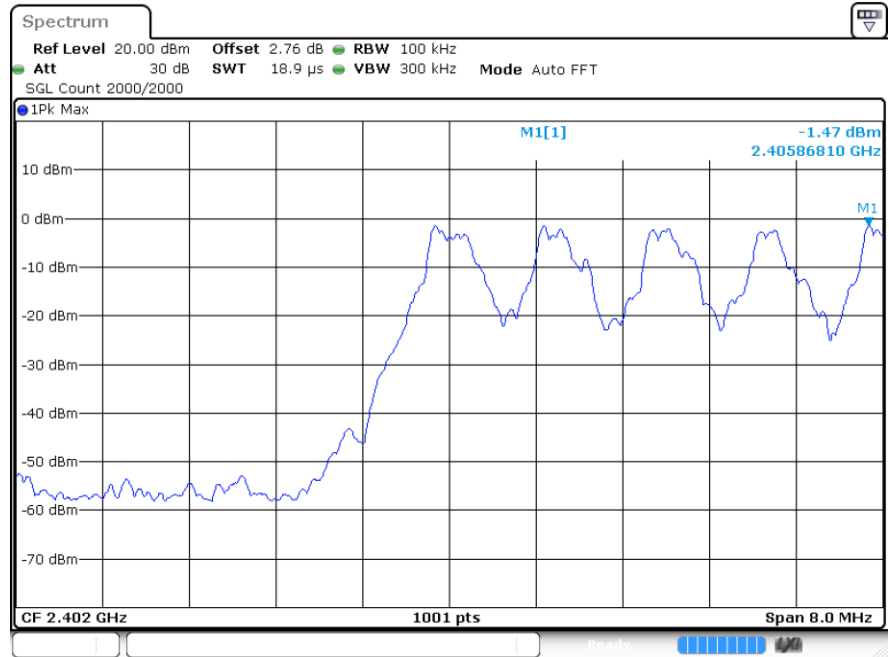
8.1 Test Result

Mode	Channel	Carrier Frequency [MHz]	Frequency Hopping	Max Spurious Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	2402	Off	-50.3	-20	Pass
			On	-45.85	-20	Pass
	HCH	2480	Off	-52.19	-20	Pass
			On	-46.66	-20	Pass
$\pi/4$ DQPSK	LCH	2402	Off	-49.95	-20	Pass
			On	-46.57	-20	Pass
	HCH	2480	Off	-51.85	-20	Pass
			On	-46.11	-20	Pass
8DPSK	LCH	2402	Off	-52.82	-20	Pass
			On	-44.84	-20	Pass
	HCH	2480	Off	-51.98	-20	Pass
			On	-47.99	-20	Pass

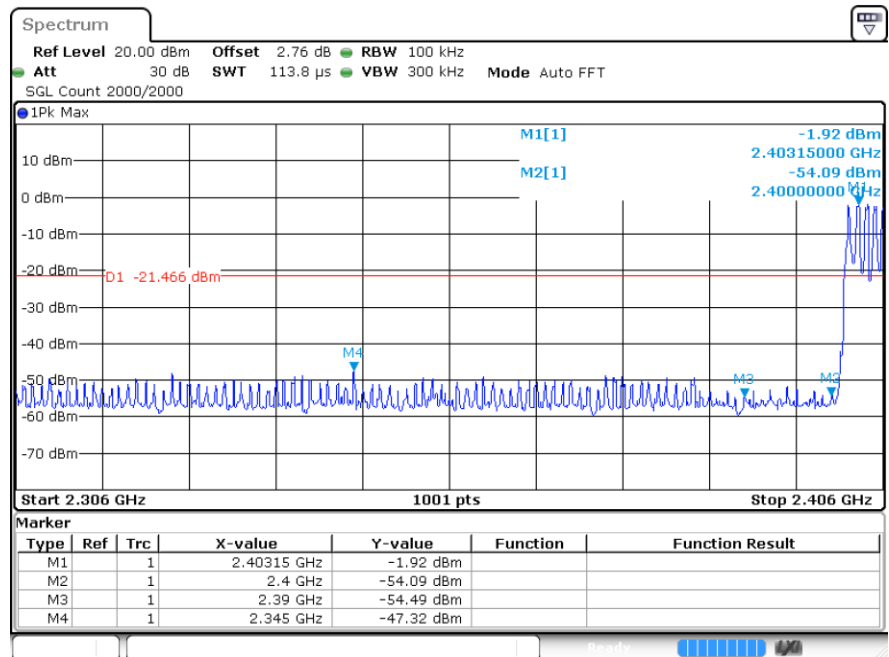
8.2 Test Graphs



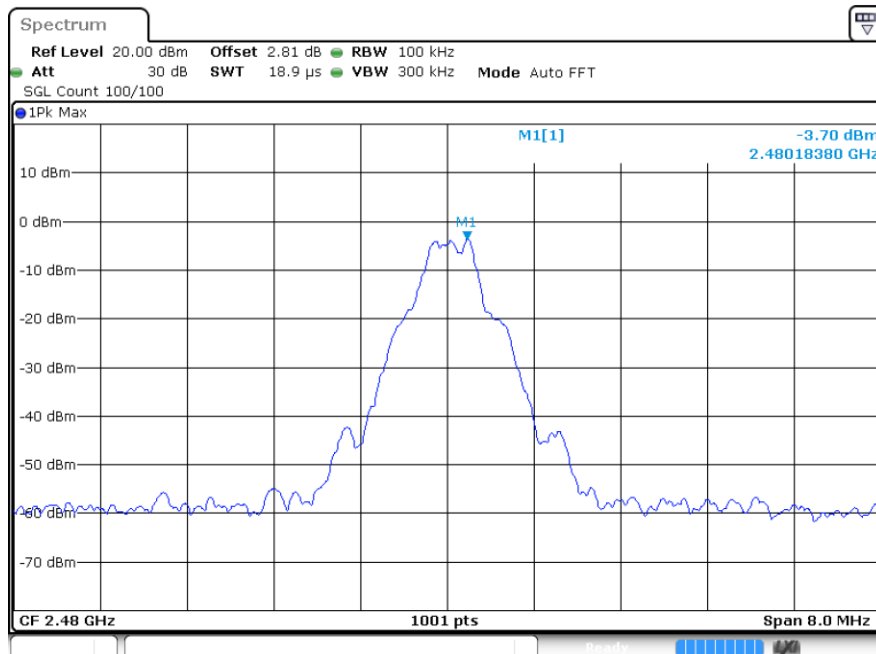
Ref



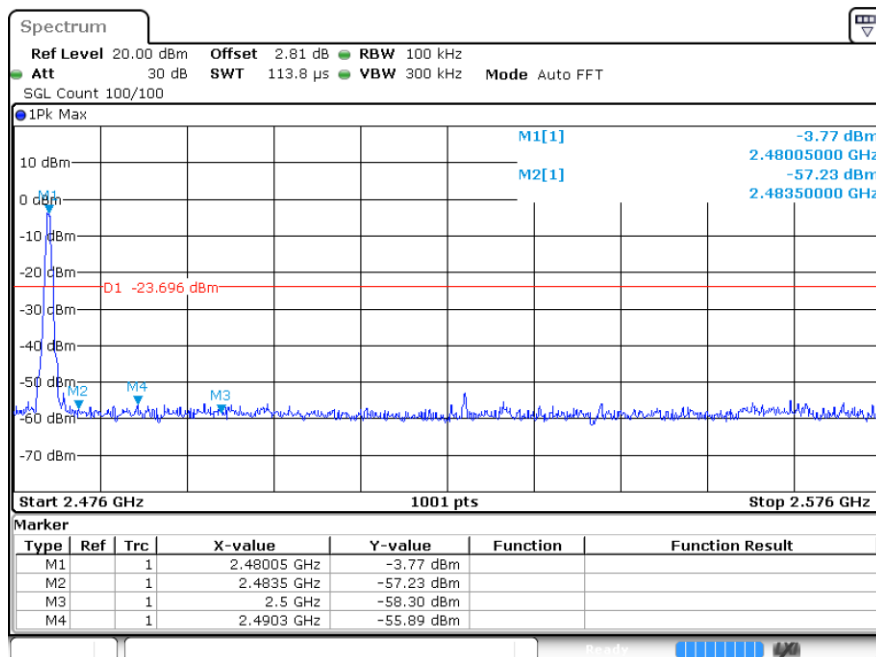
GFSK/LCH/Hop



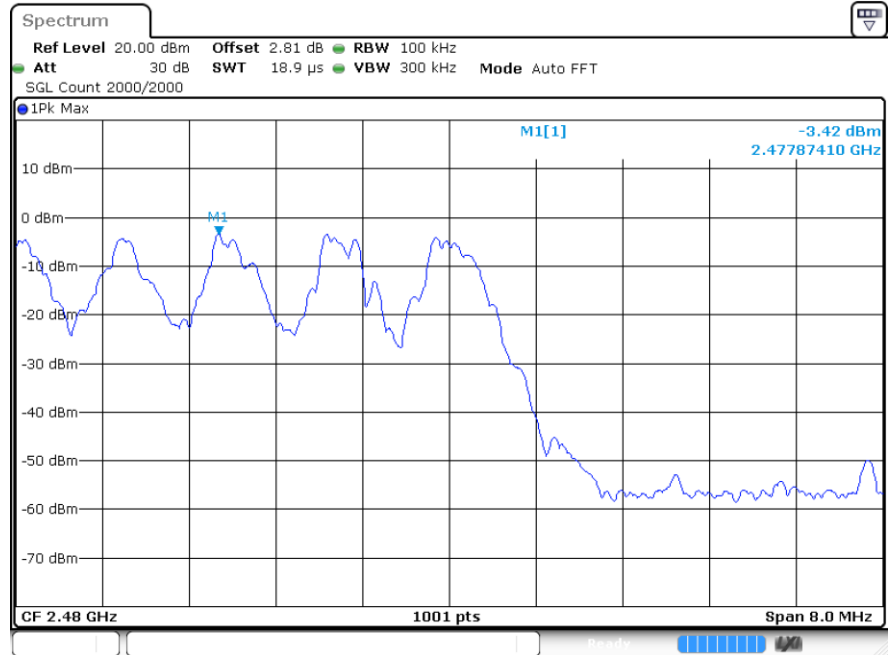
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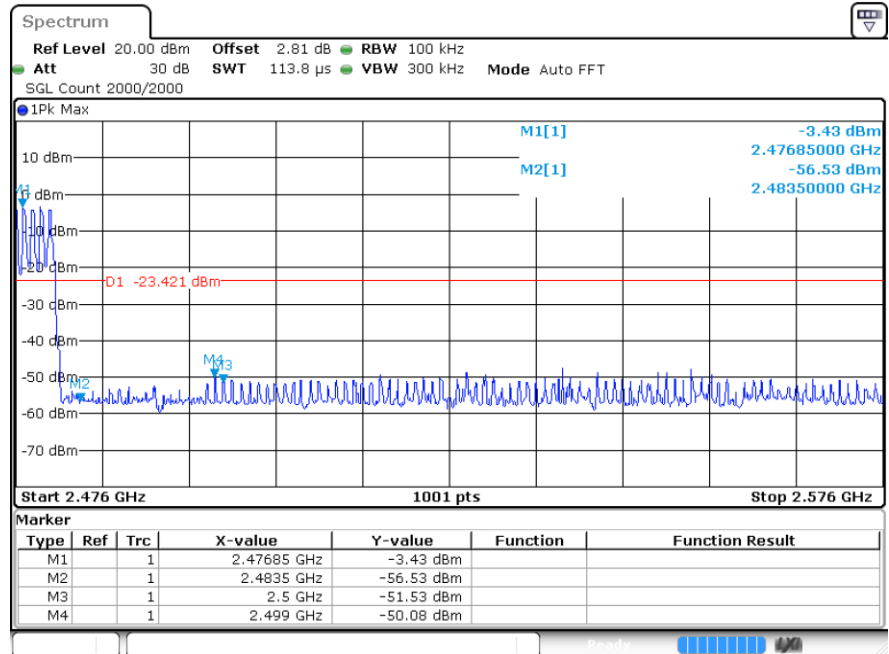
GFSK/HCH/No Hop



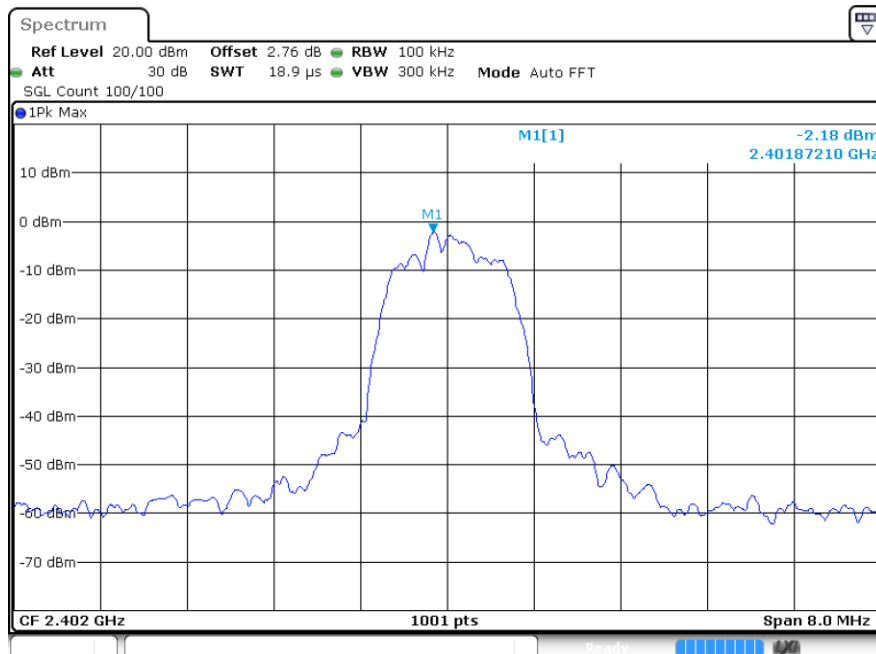
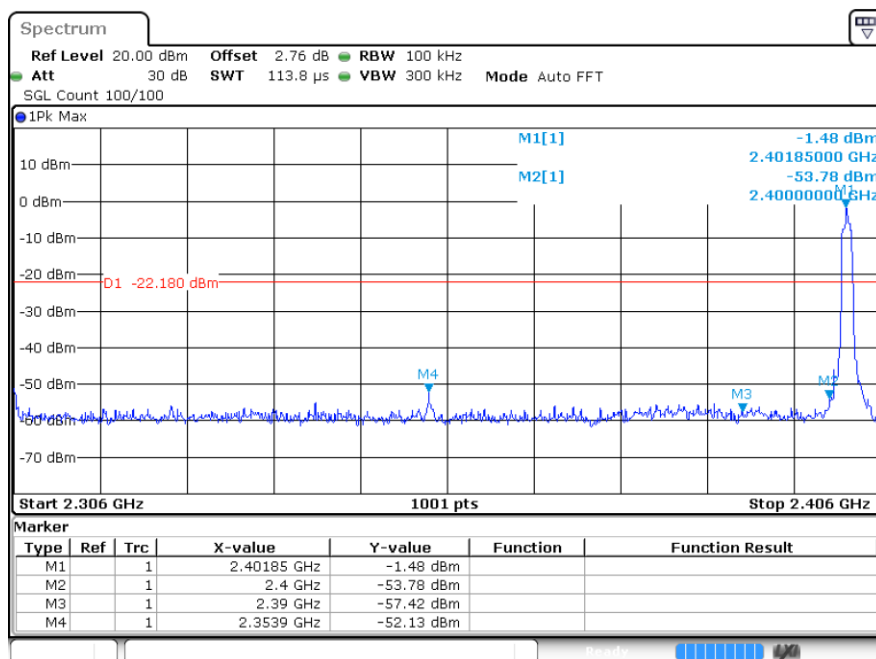
Ref.



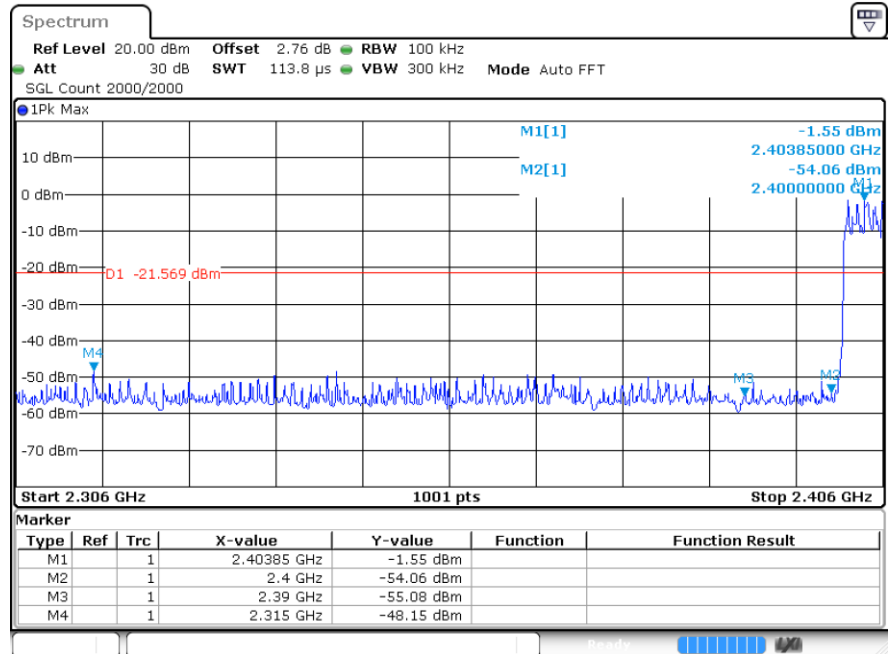
GFSK/HCH/Hop



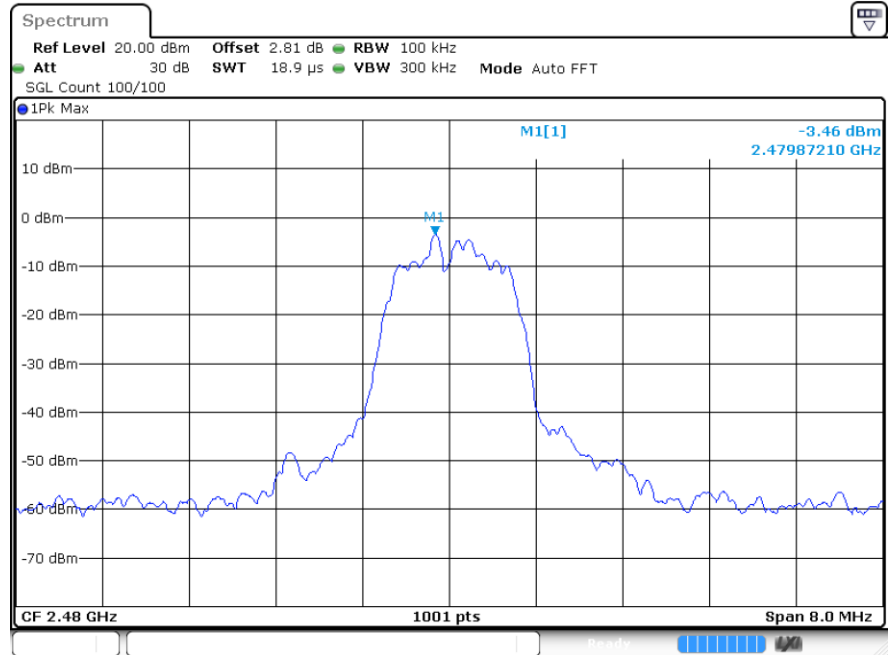
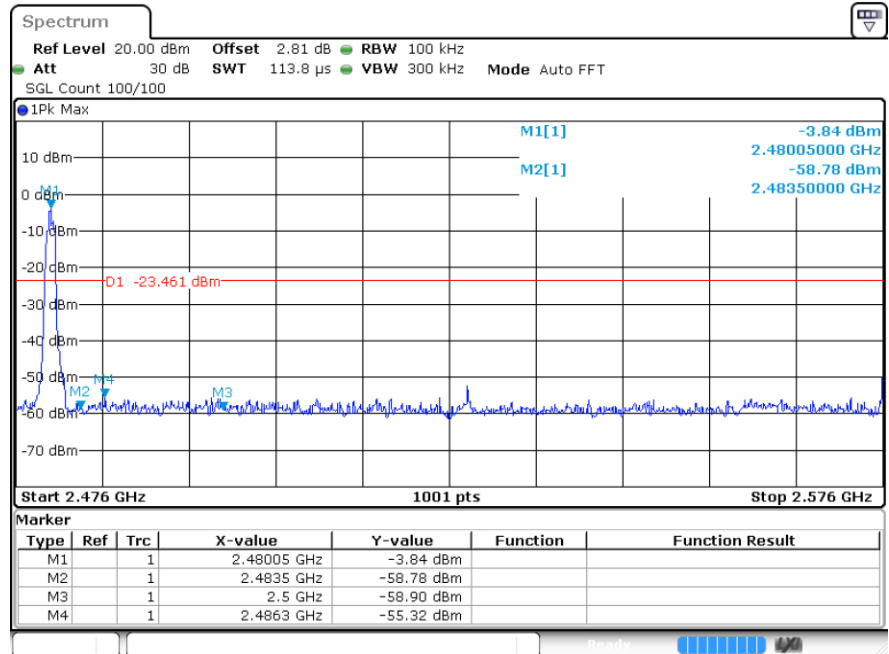
Ref


 $\pi/4$ DQPSK/LCH/No
Hop


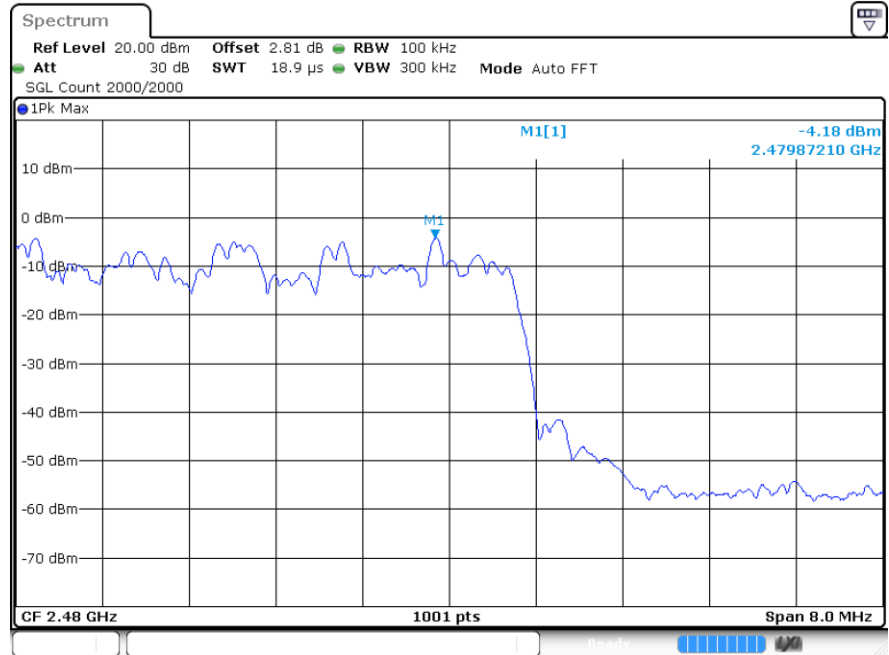
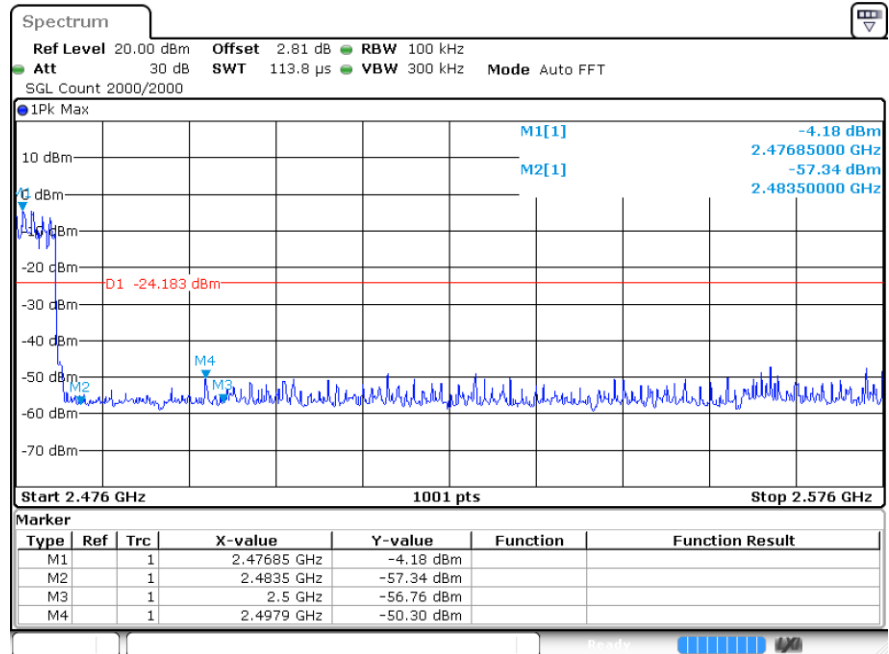
Ref


 $\pi/4$ DQPSK/LCH/Hop


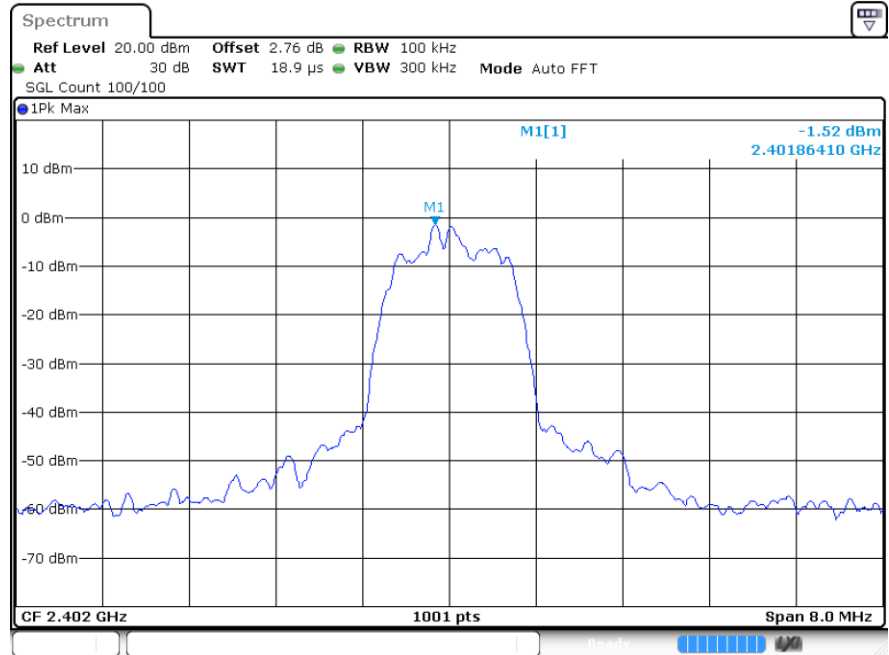
Ref


 $\pi/4$ DQPSK/HCH/No
Hop


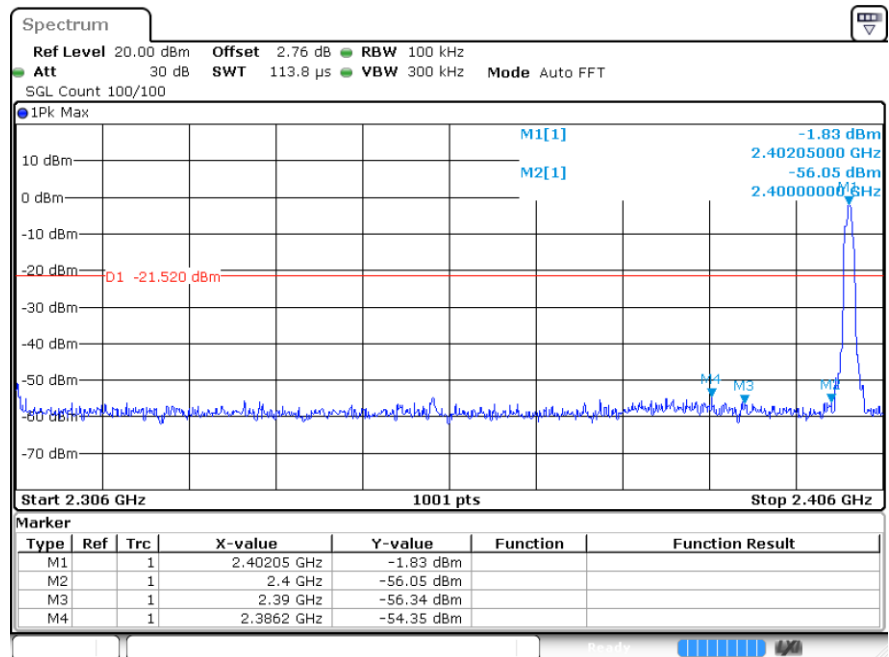
Ref


 $\pi/4$ DQPSK/HCH/Hop


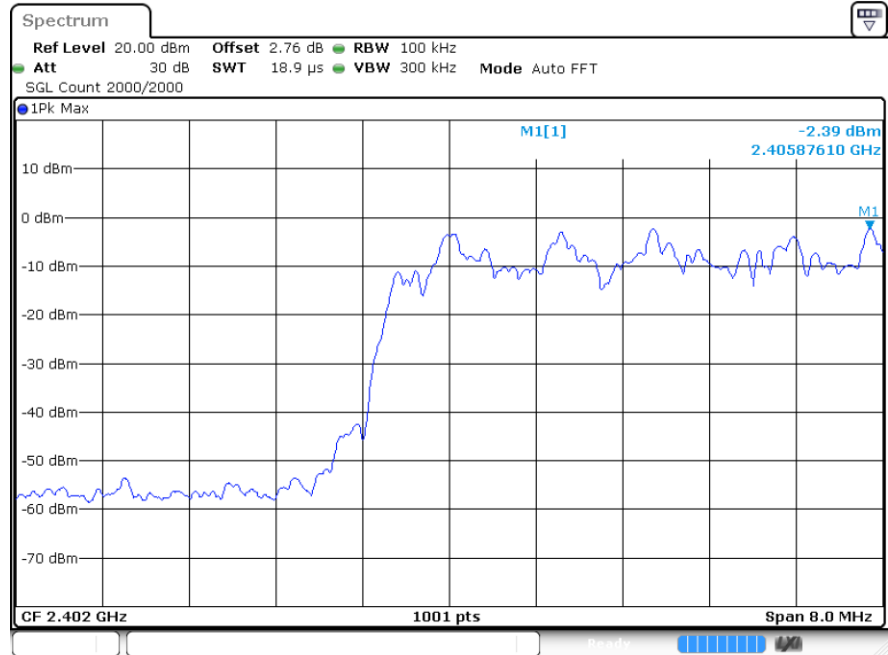
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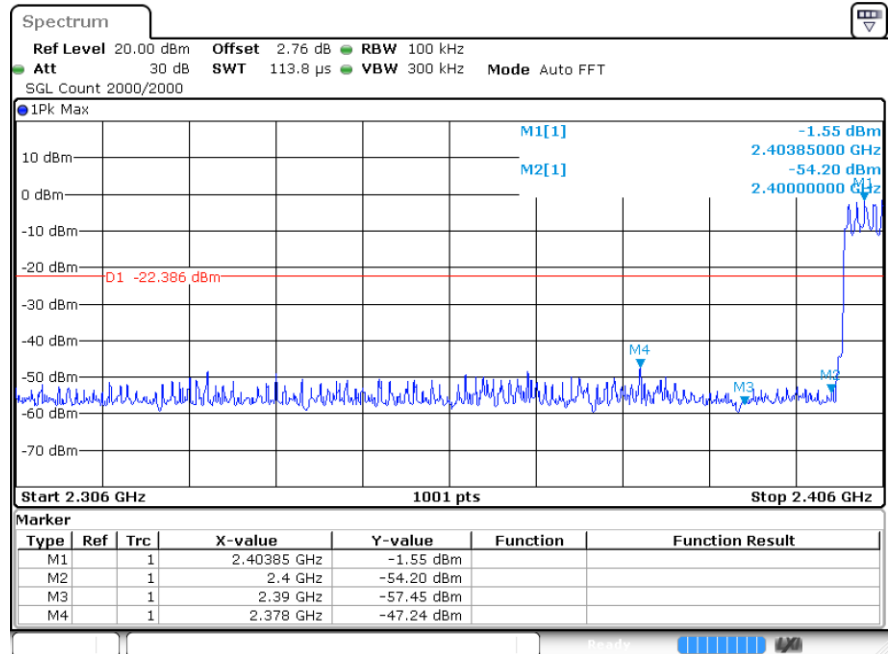
8DPSK/LCH/No Hop



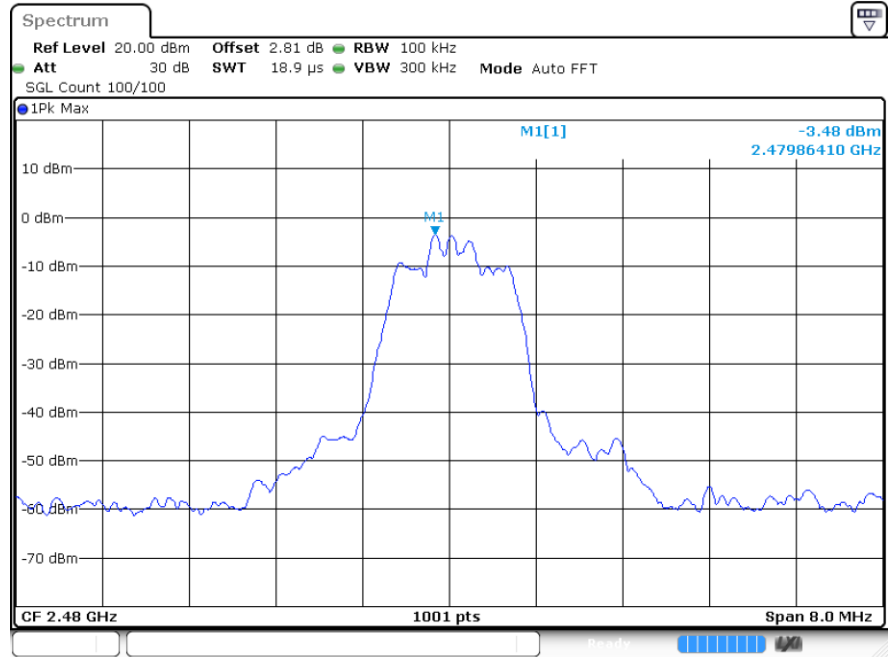
Ref



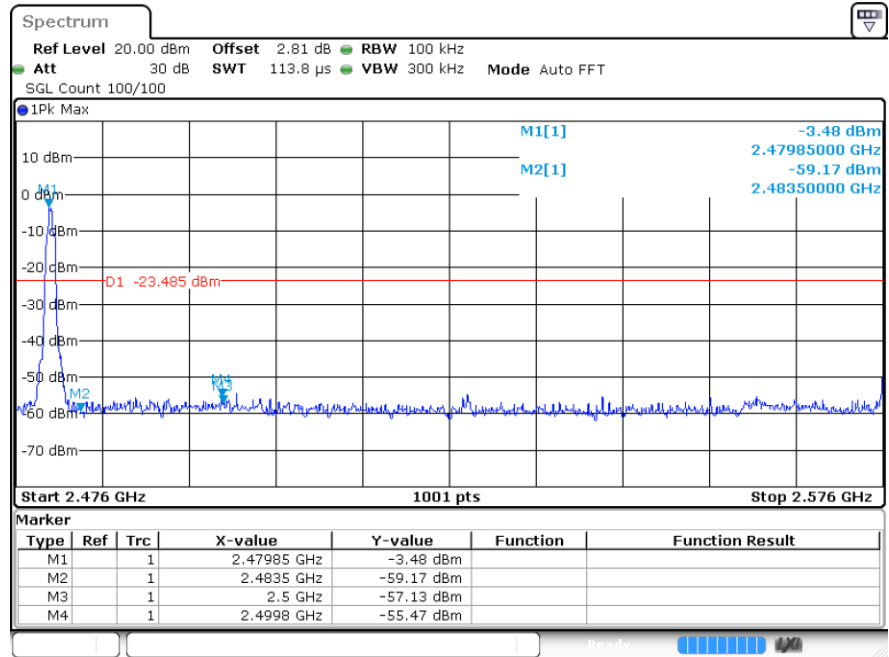
8DPSK/LCH/Hop



Ref



8DPSK/HCH/No Hop



Ref



8DPSK/HCH/Hop

