



Appendix RF test data for BT

Product Name: 15.6 PC Tablet

Trade Mark: N/A

Test Model: F15

Environmental Conditions

Temperature:	25.2° C
Relative Humidity:	52.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung



Contents

Page

COVER PAGE

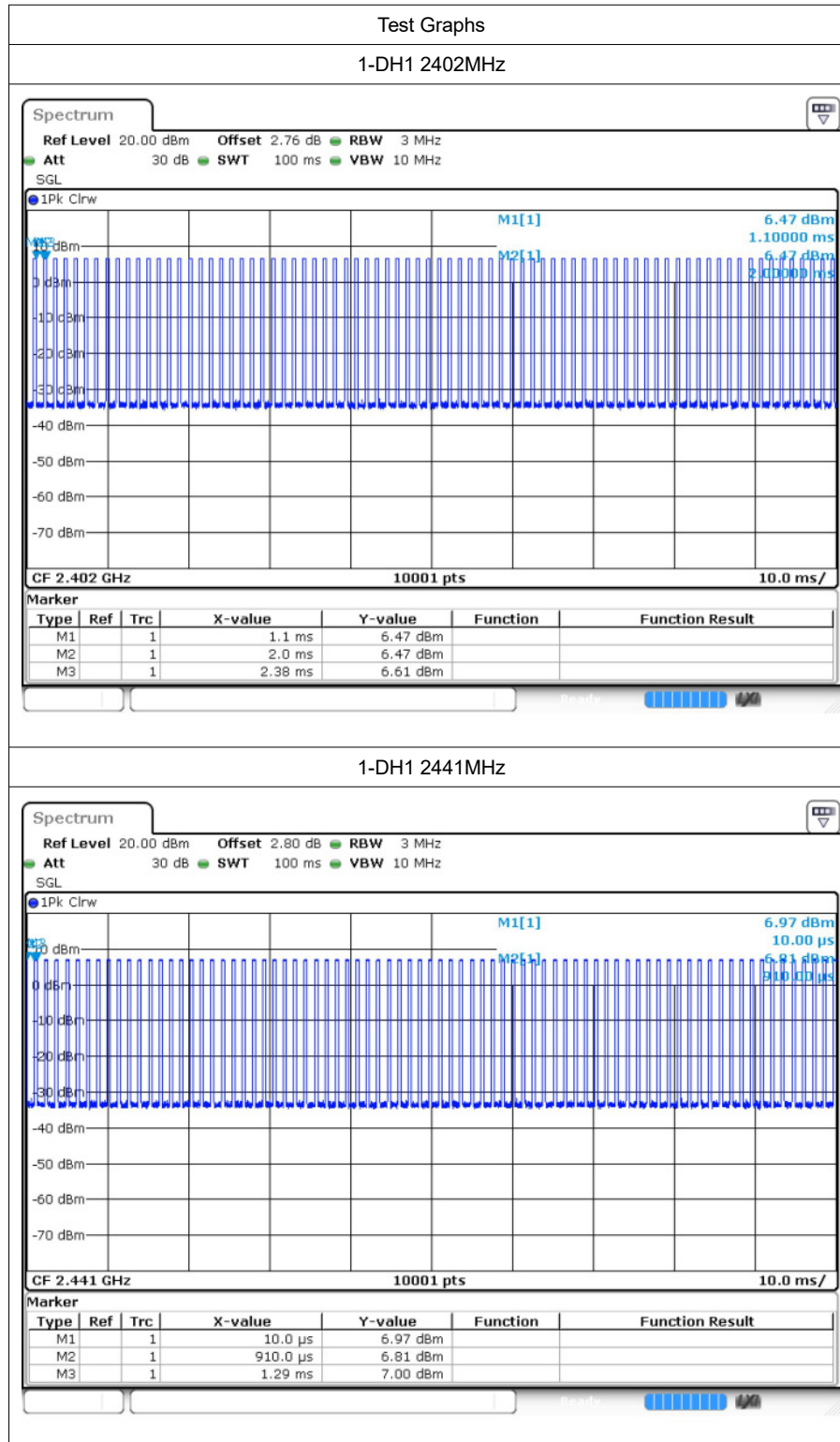
1	Duty Cycle	3
1.1	Test Result	3
1.2	Test Graphs	4
2	Maximum Conducted Peak Output Power	9
2.1	Test Result	9
2.2	Test Graphs	10
3	20dB Bandwidth	15
3.1	Test Result	15
3.2	Test Graphs	16
4	Carrier Frequency Separation	21
4.1	Test Result	21
4.2	Test Graphs	22
5	Hopping Channel Number	24
5.1	Test Result	24
5.2	Test Graphs	25
6	Dwell Time	27
6.1	Test Result	27
6.2	Test Graphs	28
7	RF Conducted Spurious Emissions	31
7.1	Test Result	31
7.2	Test Graphs	32
8	Band-edge for RF Conducted Emissions	41
8.1	Test Result	41
8.2	Test Graphs	42

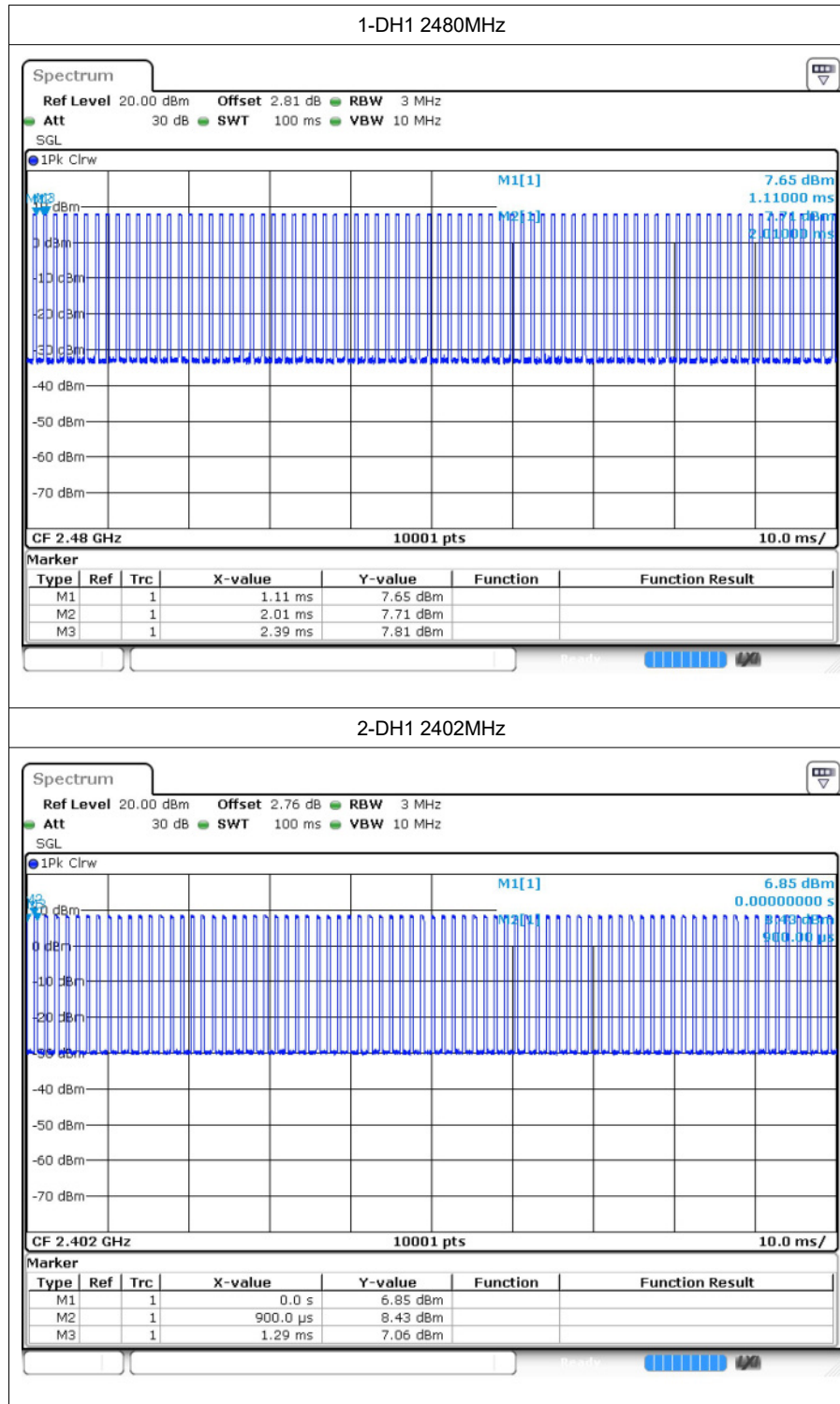
1 Duty Cycle

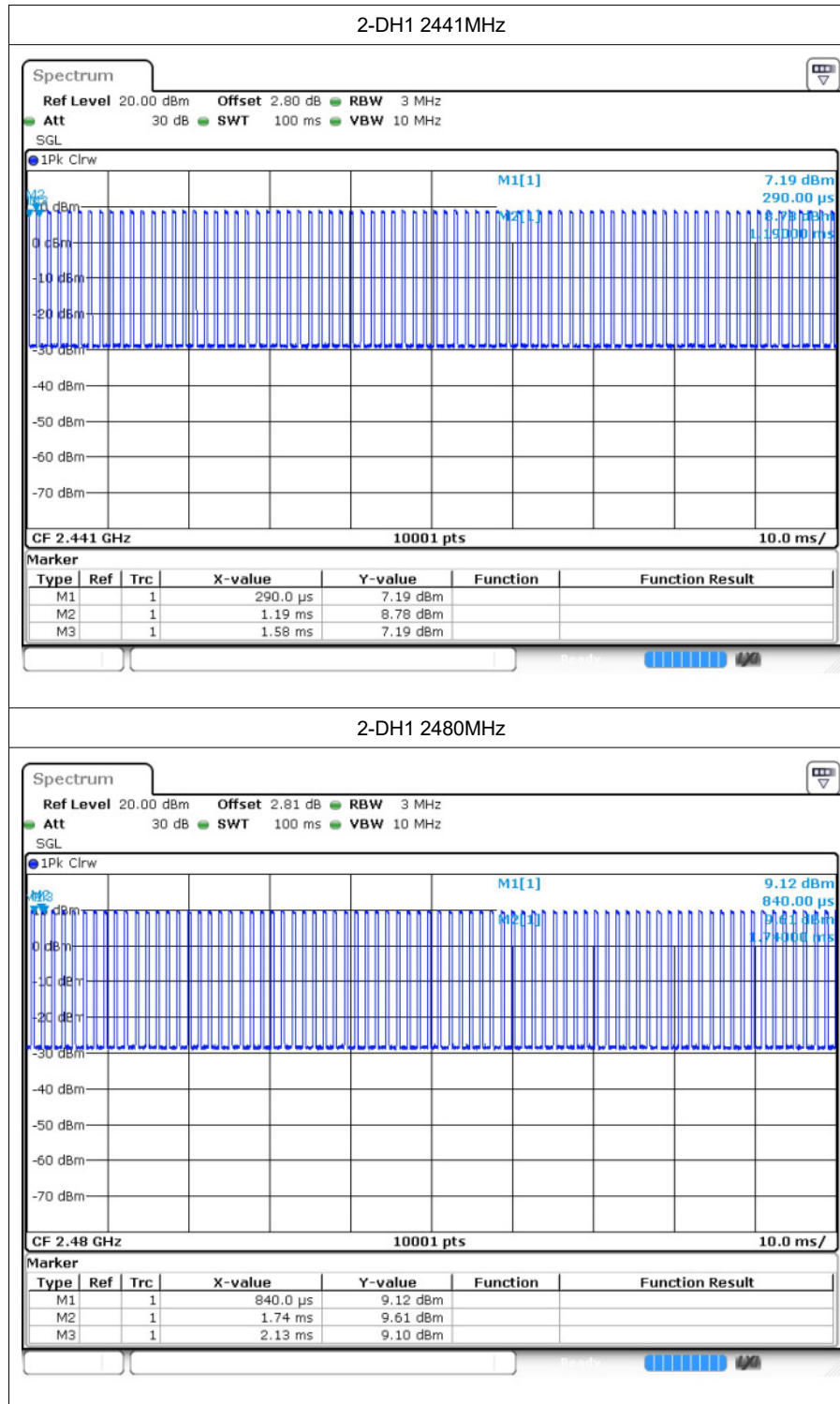
1.1 Test Result

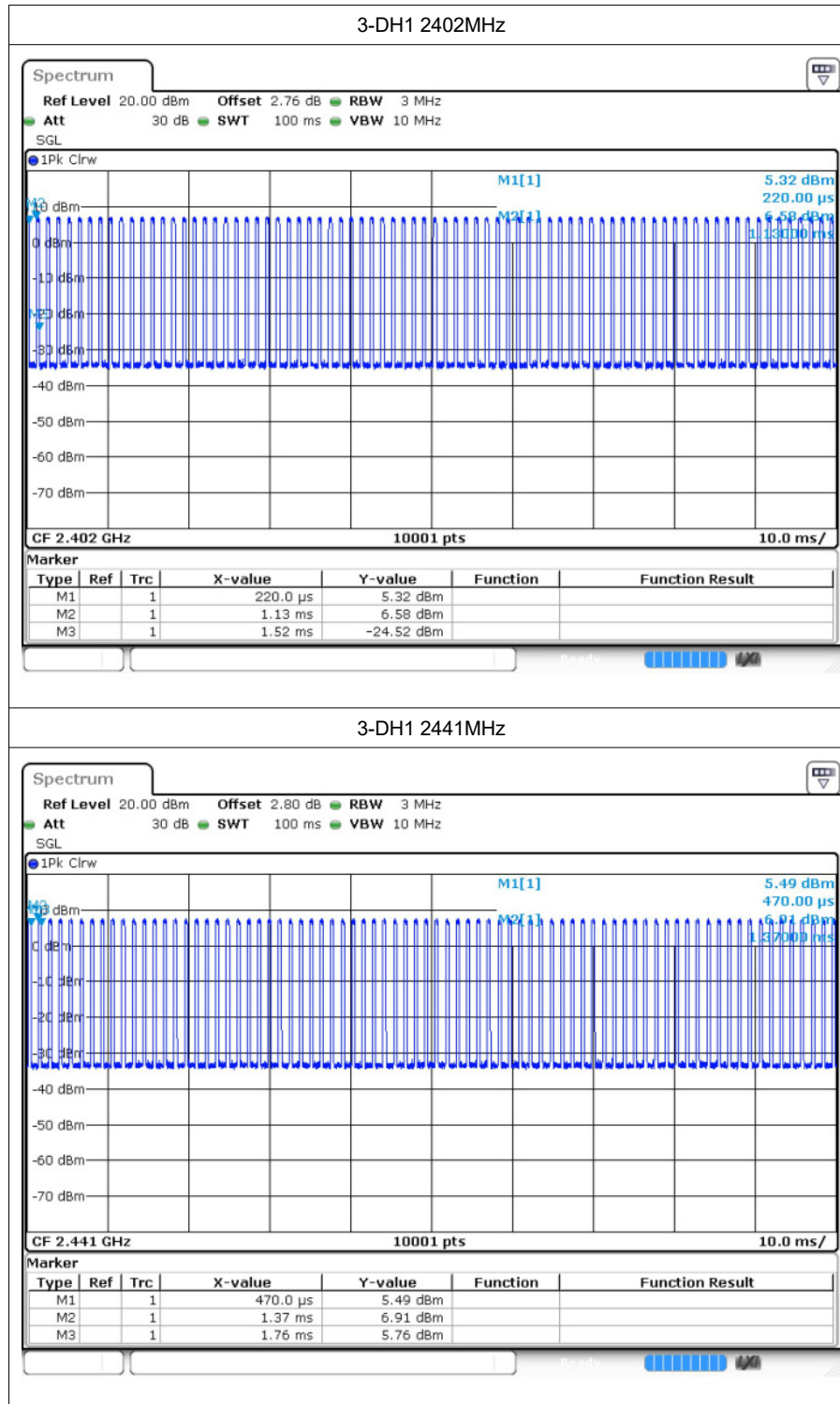
Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor	1/T (kHz)
1-DH1	2402	30.42	5.17	2.63
1-DH1	2441	30.43	5.17	2.63
1-DH1	2480	30.42	5.17	2.63
2-DH1	2402	30.78	5.12	2.56
2-DH1	2441	31.07	5.08	2.56
2-DH1	2480	30.93	5.1	2.56
3-DH1	2402	30.98	5.09	2.56
3-DH1	2441	31.15	5.07	2.56
3-DH1	2480	31.04	5.08	2.63

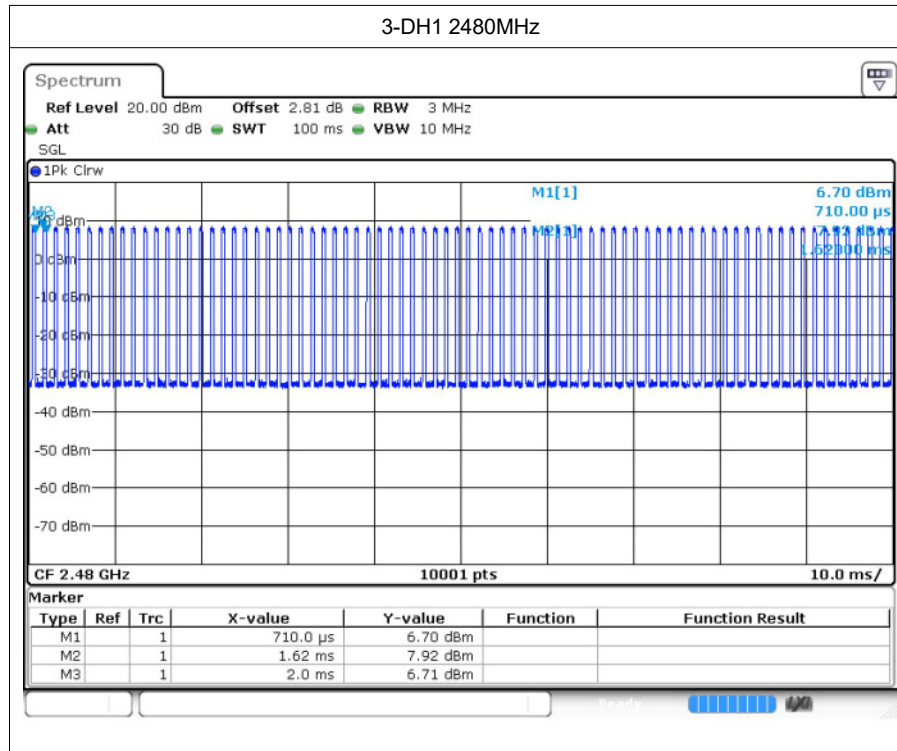
1.2 Test Graphs









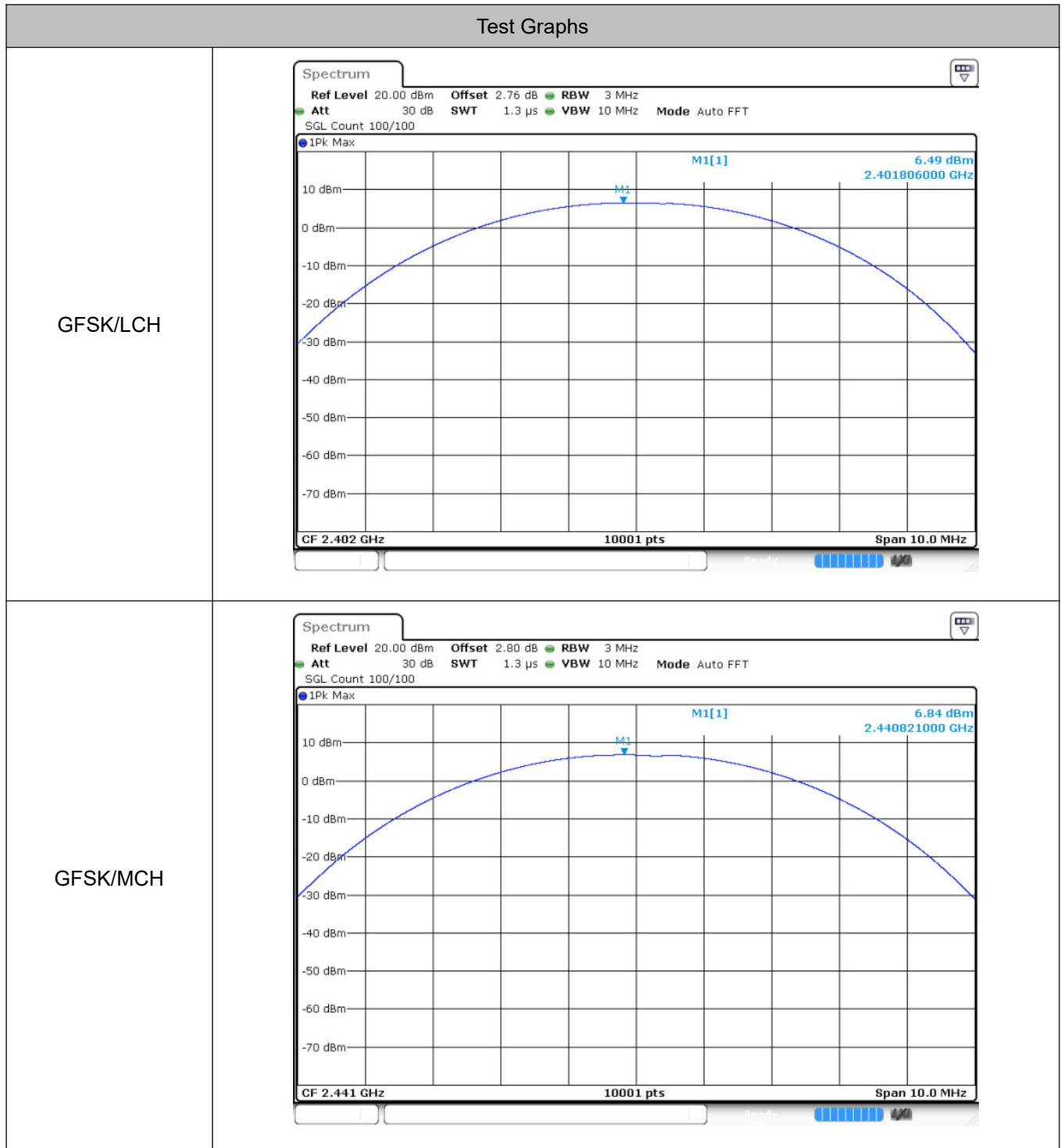


2 Maximum Conducted Peak Output Power

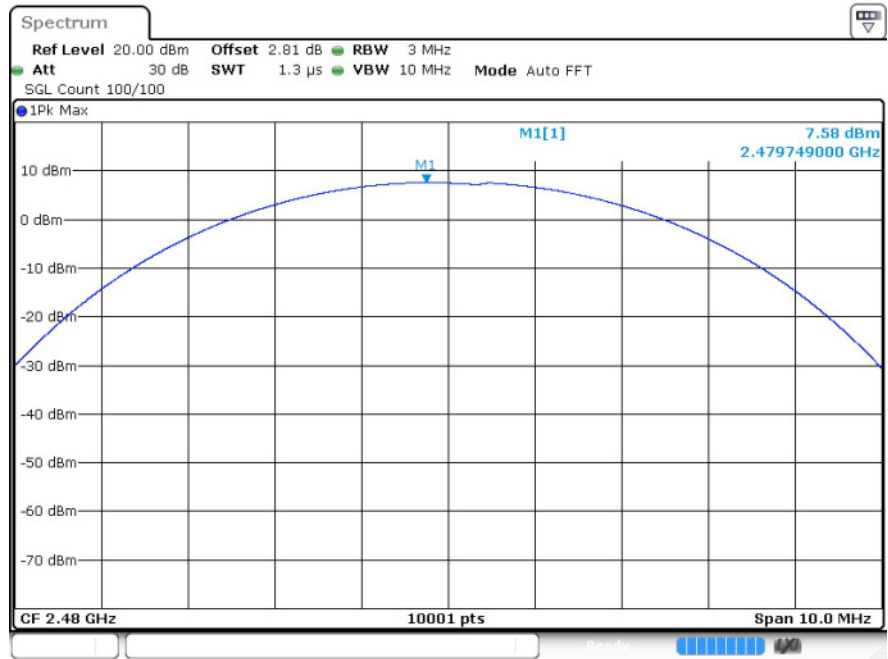
2.1 Test Result

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	6.49	21	Pass
	MCH	6.84	21	Pass
	HCH	7.58	21	Pass
$\pi/4$ DQPSK	LCH	8.35	21	Pass
	MCH	8.71	21	Pass
	HCH	9.54	21	Pass
8DPSK	LCH	6.38	21	Pass
	MCH	7.3	21	Pass
	HCH	7.69	21	Pass

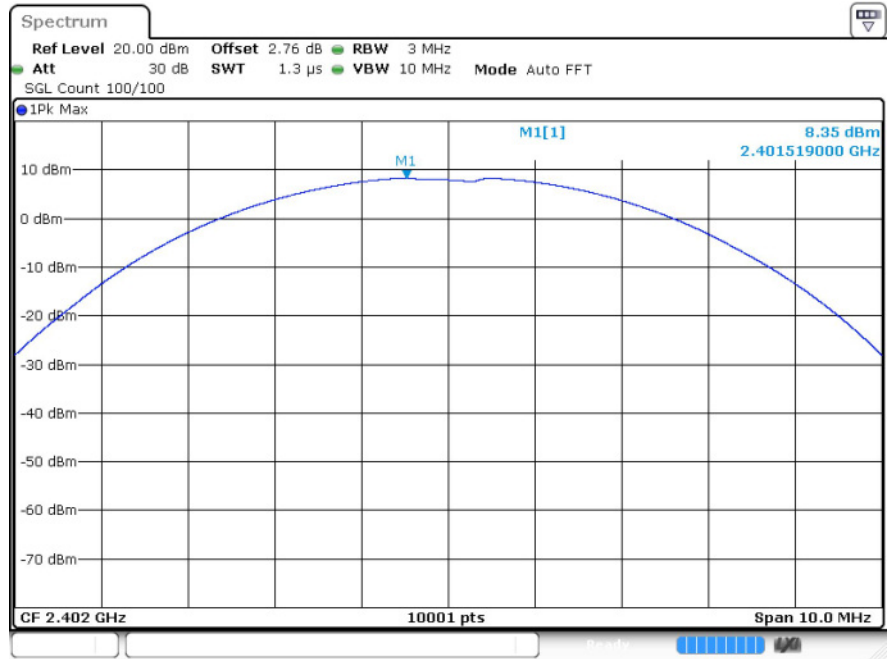
2.2 Test Graphs



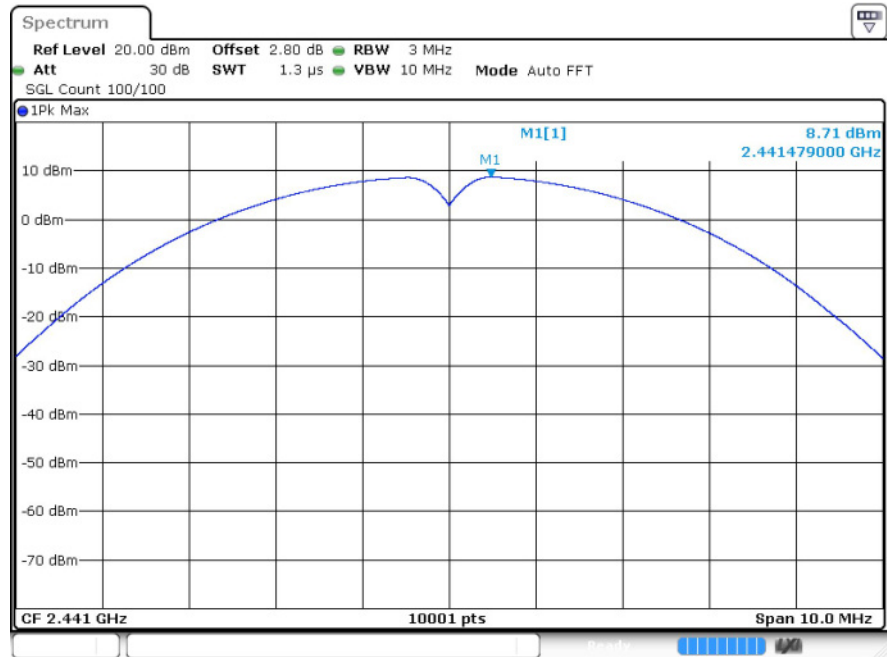
GFSK/HCH



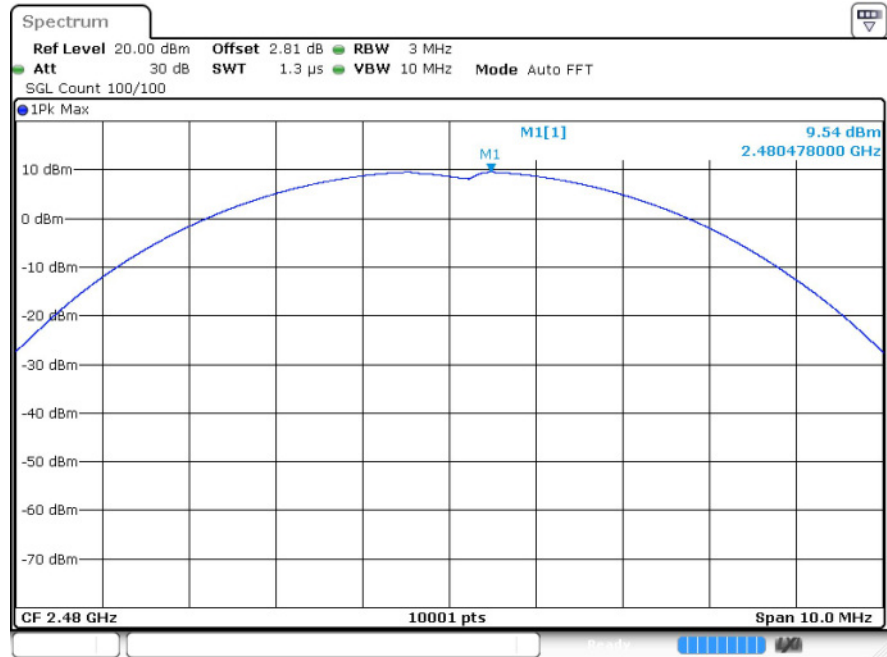
π /4DQPSK/LCH



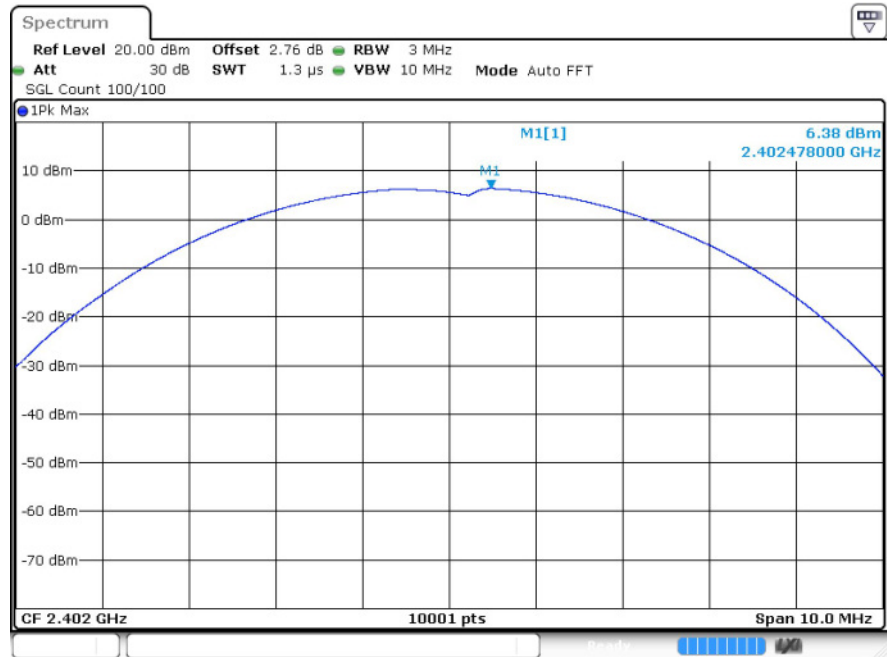
$\pi/4$ DQPSK/MCH



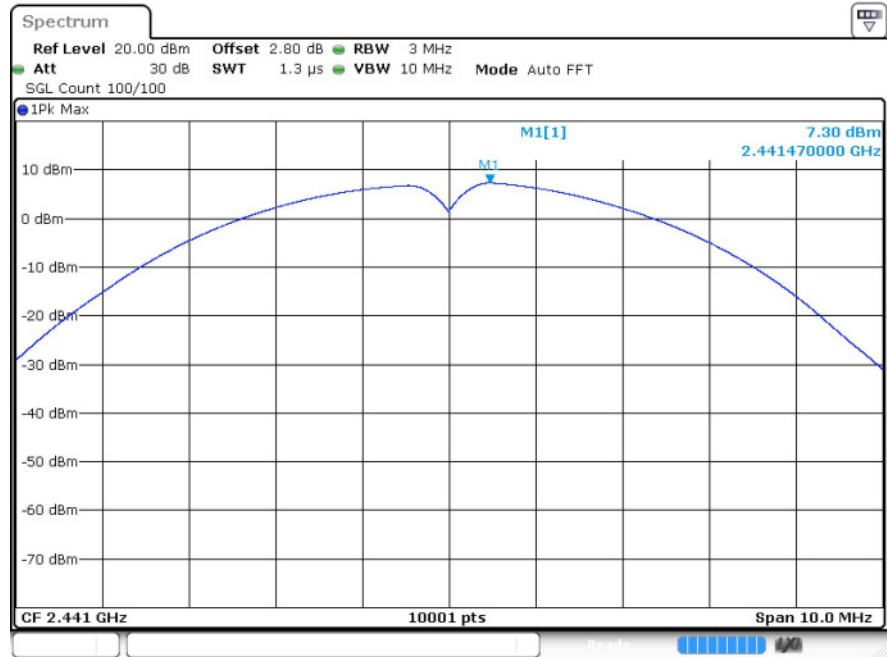
$\pi/4$ DQPSK/HCH



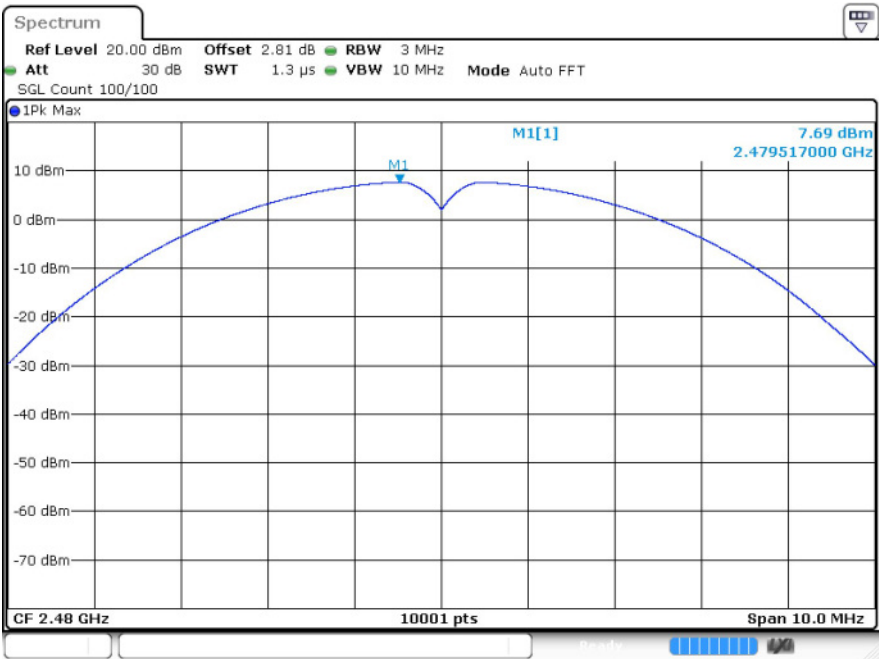
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

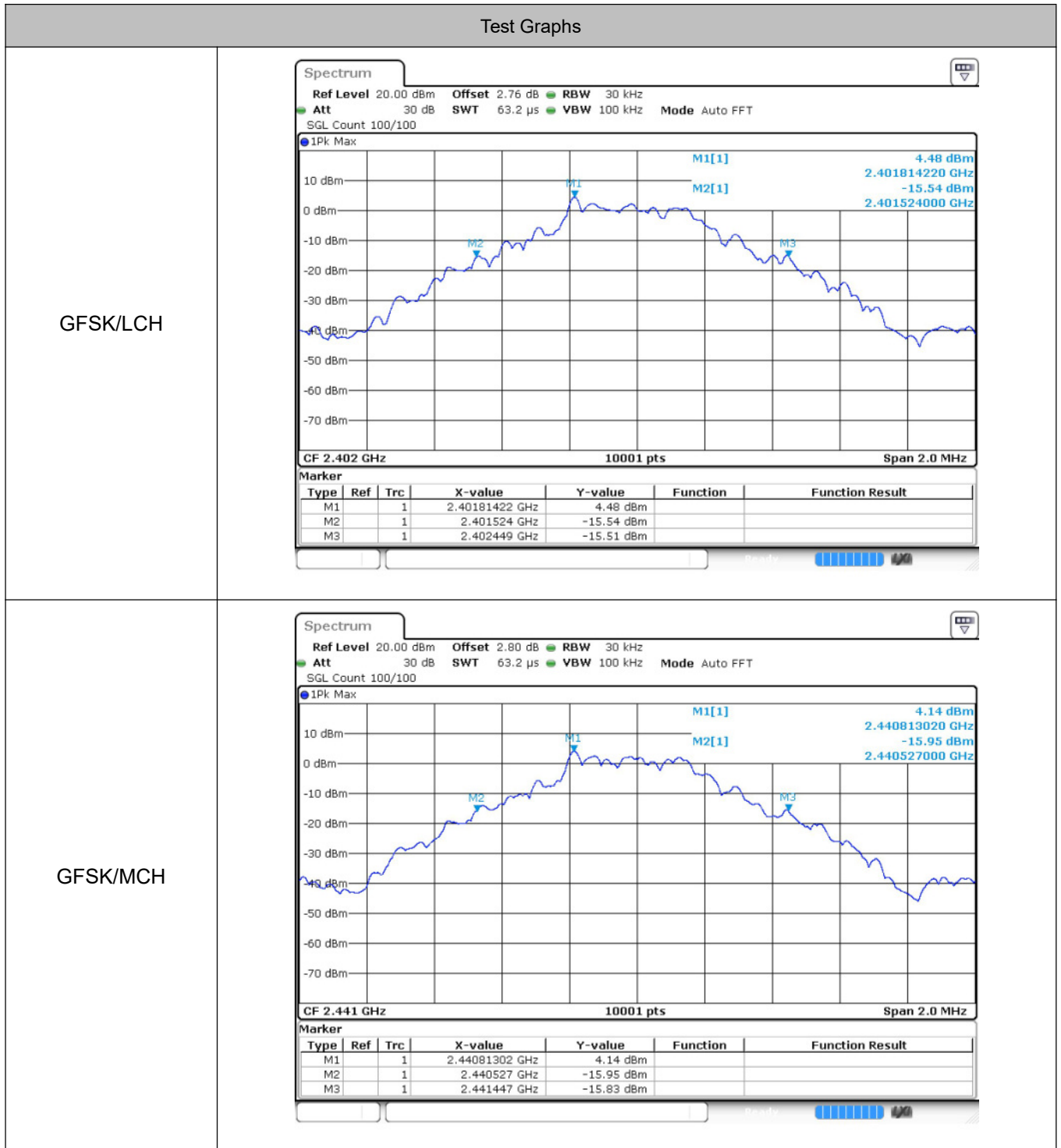


3 20dB Bandwidth

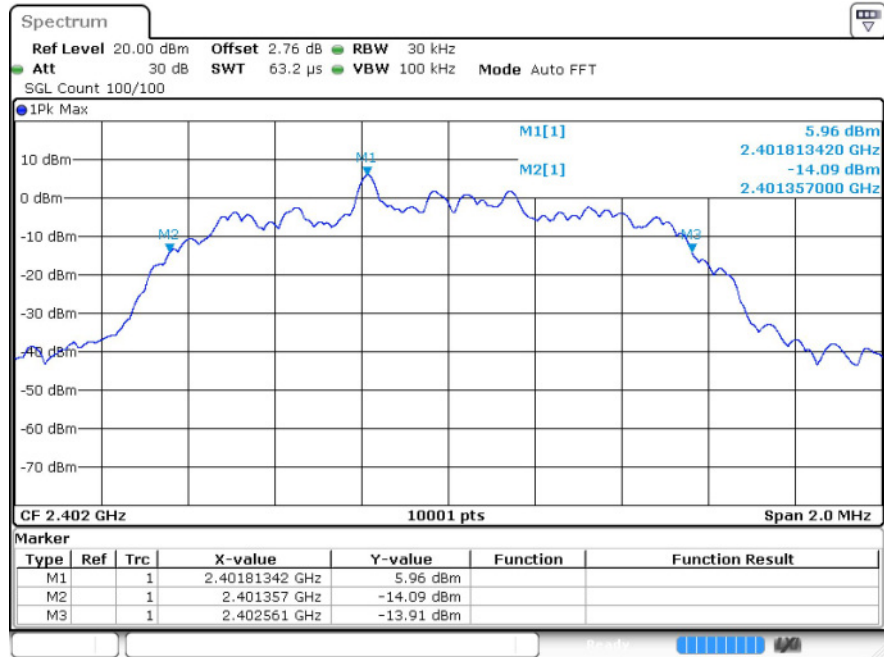
3.1 Test Result

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.925	Not Specified	Pass
	MCH	0.92	Not Specified	Pass
	HCH	0.868	Not Specified	Pass
$\pi/4$ DQPSK	LCH	1.204	Not Specified	Pass
	MCH	1.202	Not Specified	Pass
	HCH	1.151	Not Specified	Pass
8DPSK	LCH	1.19	Not Specified	Pass
	MCH	1.153	Not Specified	Pass
	HCH	1.208	Not Specified	Pass

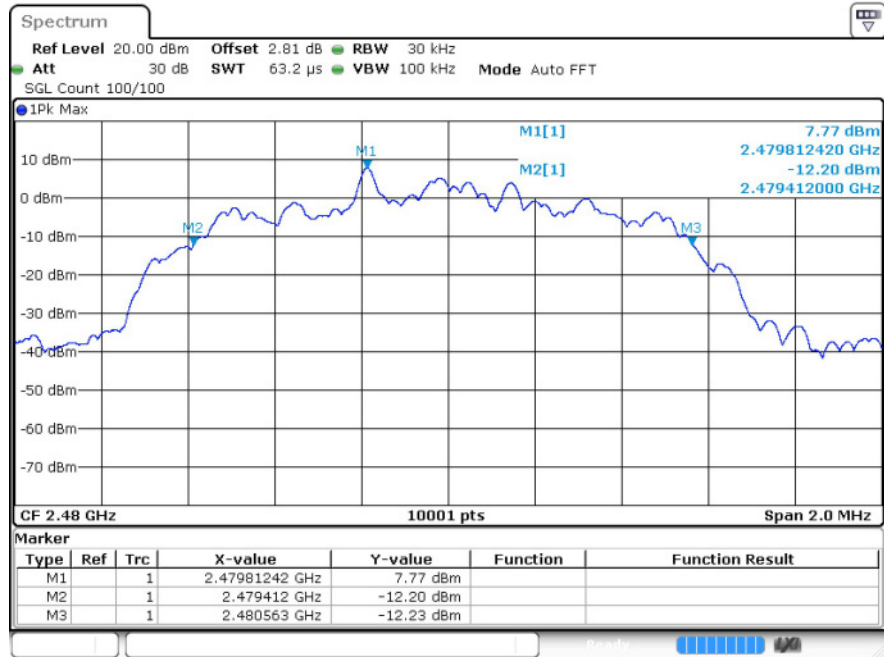
3.2 Test Graphs



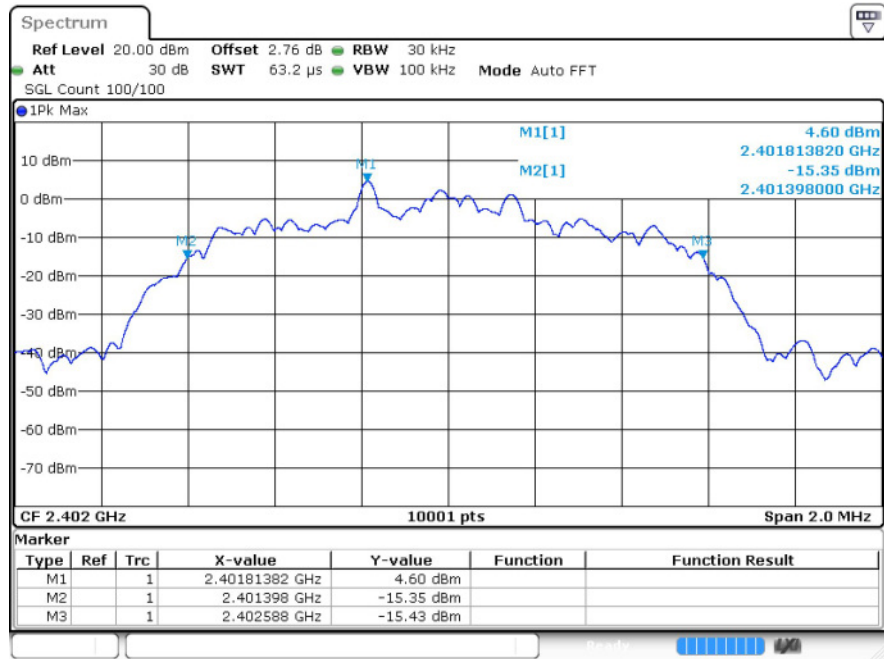
GFSK/HCH


 $\pi/4$ DQPSK/LCH


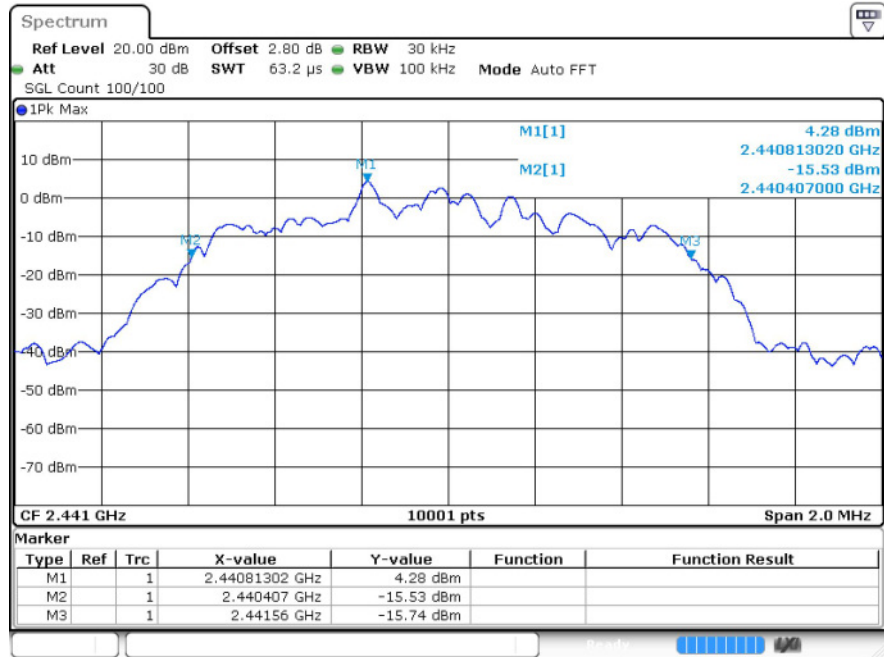
$\pi/4$ DQPSK/MCH

 $\pi/4$ DQPSK/HCH


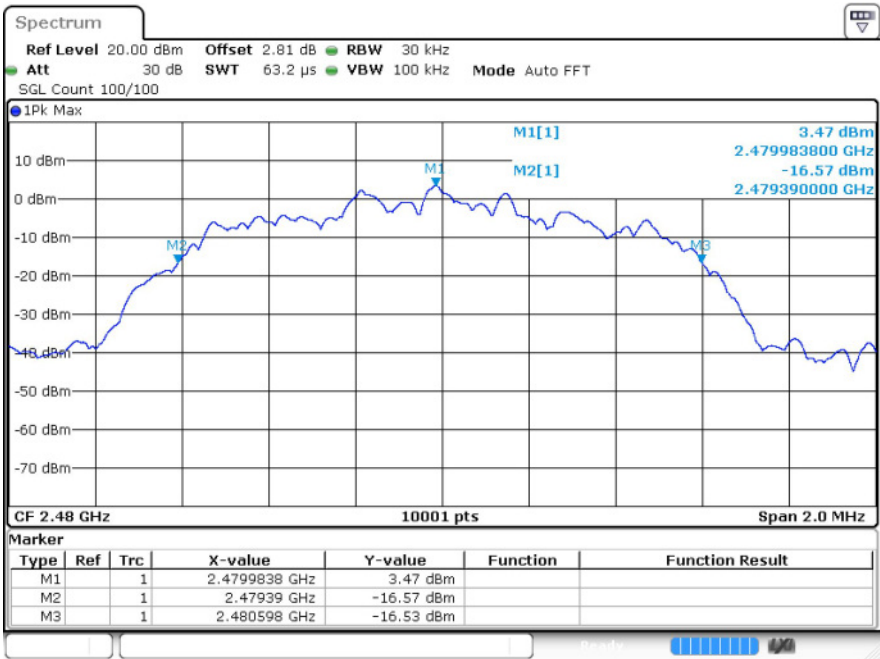
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

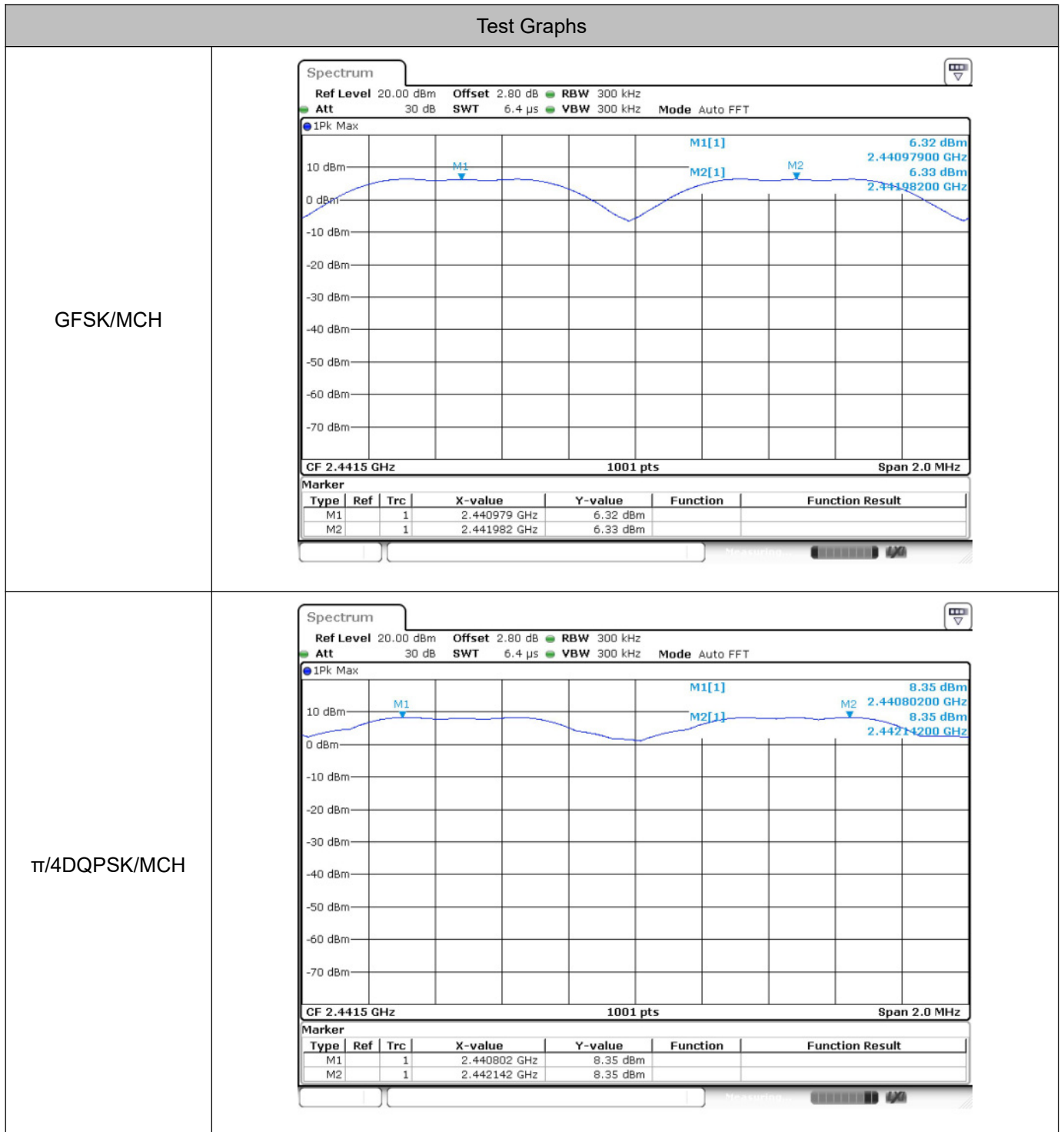


4 Carrier Frequency Separation

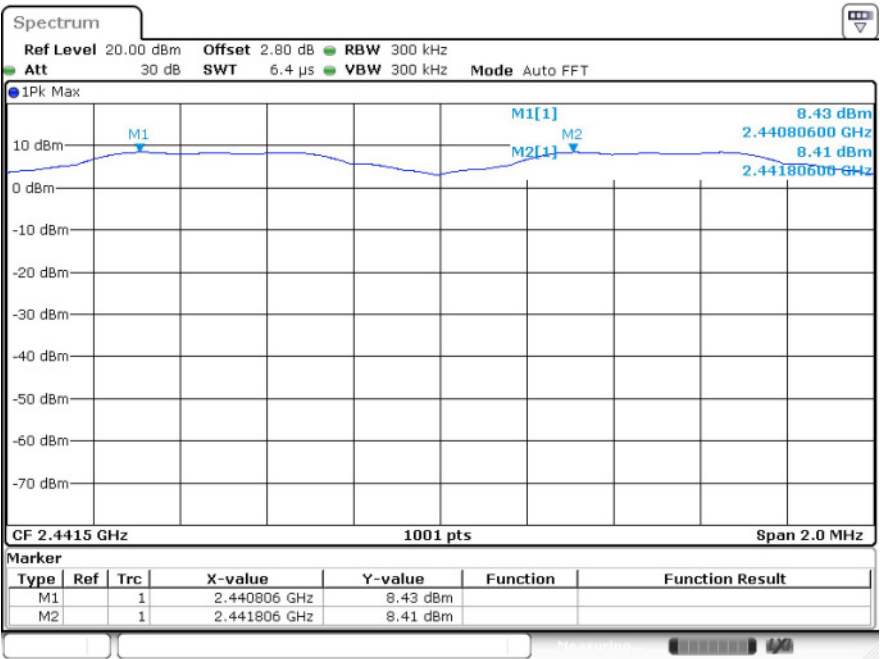
4.1 Test Result

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	1.003	0.613	Pass
$\pi/4$ DQPSK	MCH	1.34	0.801	Pass
8DPSK	MCH	1	0.769	Pass

4.2 Test Graphs



8DPSK/MCH

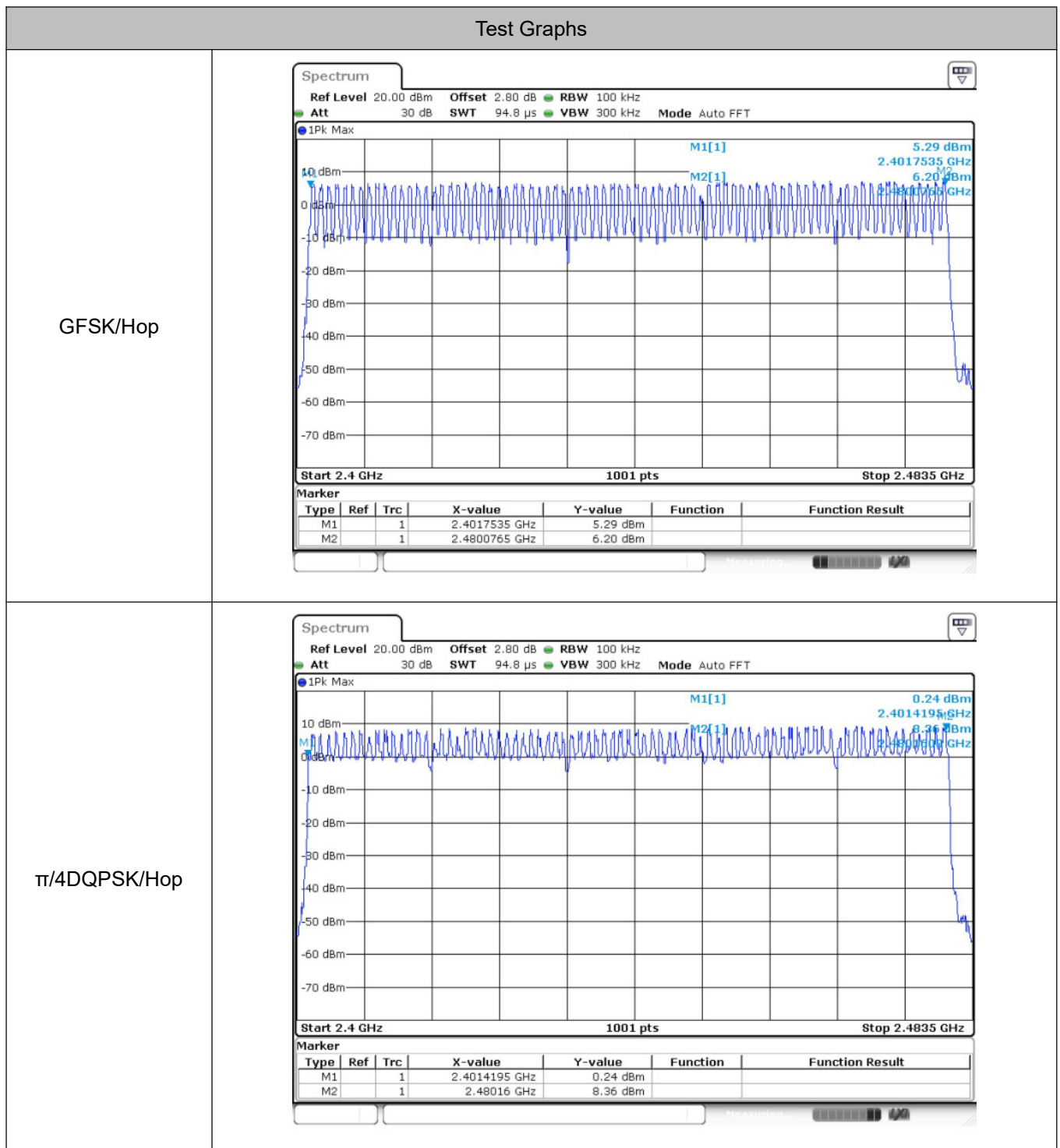


5 Hopping Channel Number

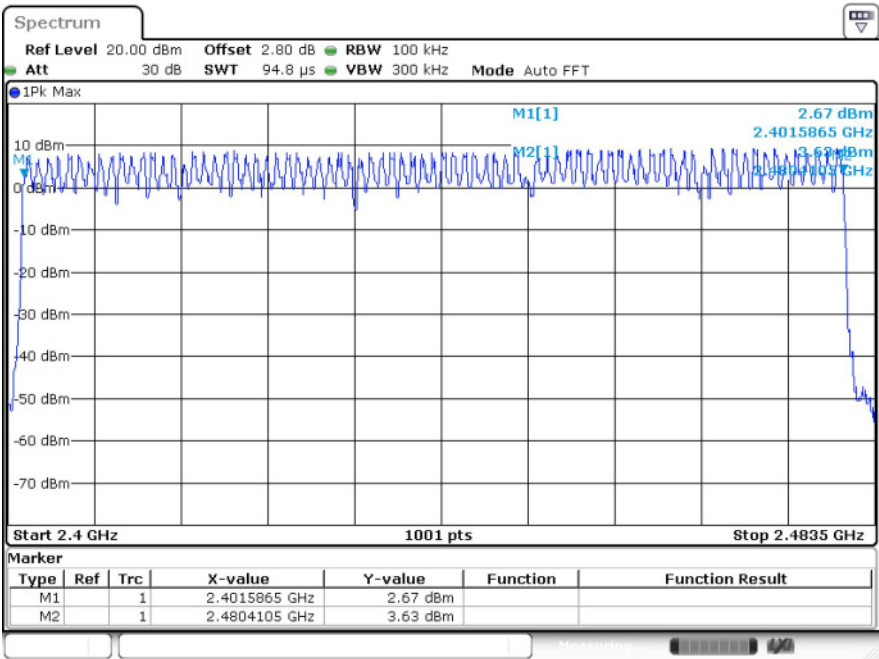
5.1 Test Result

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

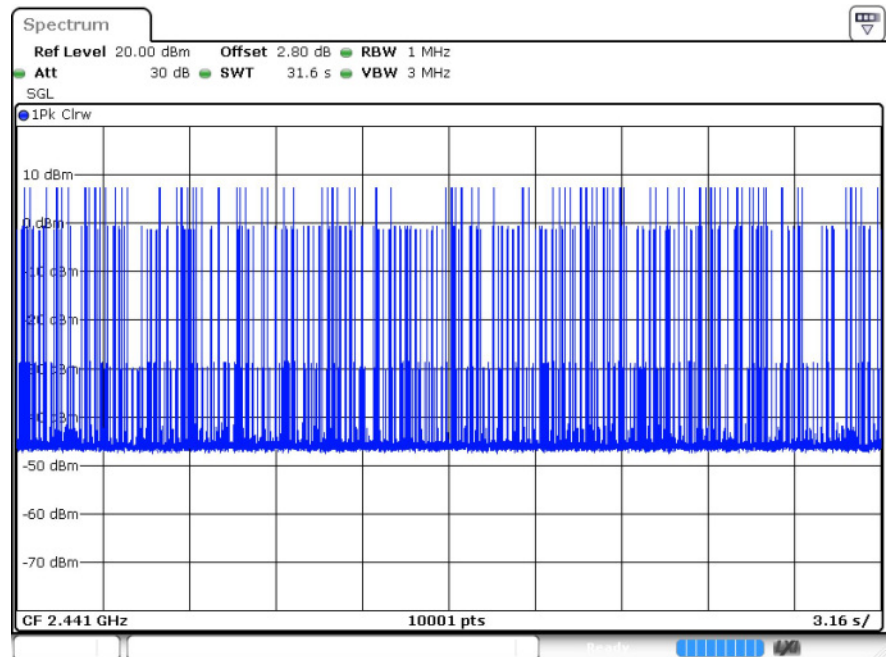
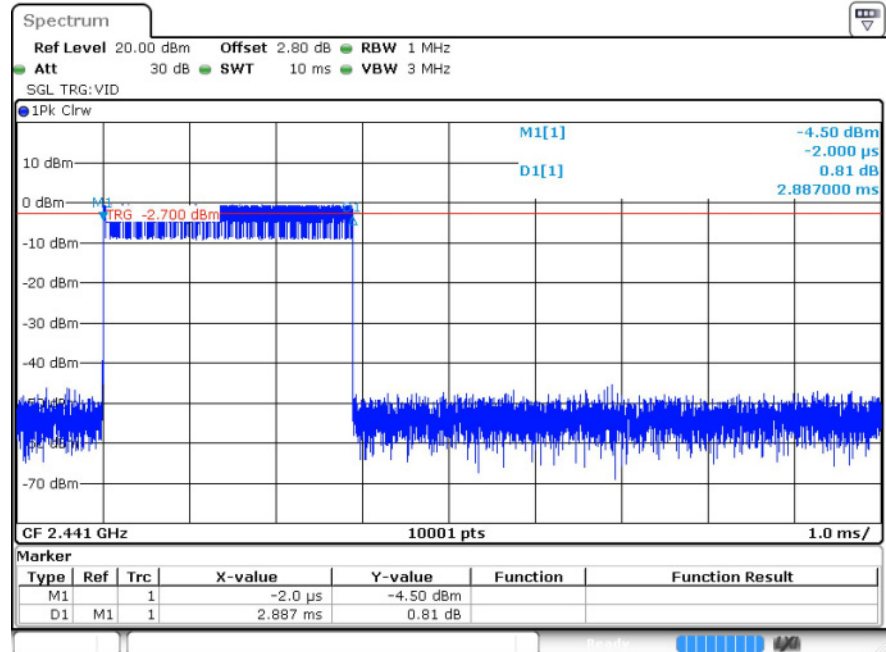
6.1 Test Result

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Limit [s]	Verdict
GFSK	DH5	MCH	2.887	96	277.152	0.4	Pass
$\pi/4$ DQPSK	2DH5	MCH	2.892	101	292.092	0.4	Pass
8DPSK	3DH5	MCH	2.894	112	324.128	0.4	Pass

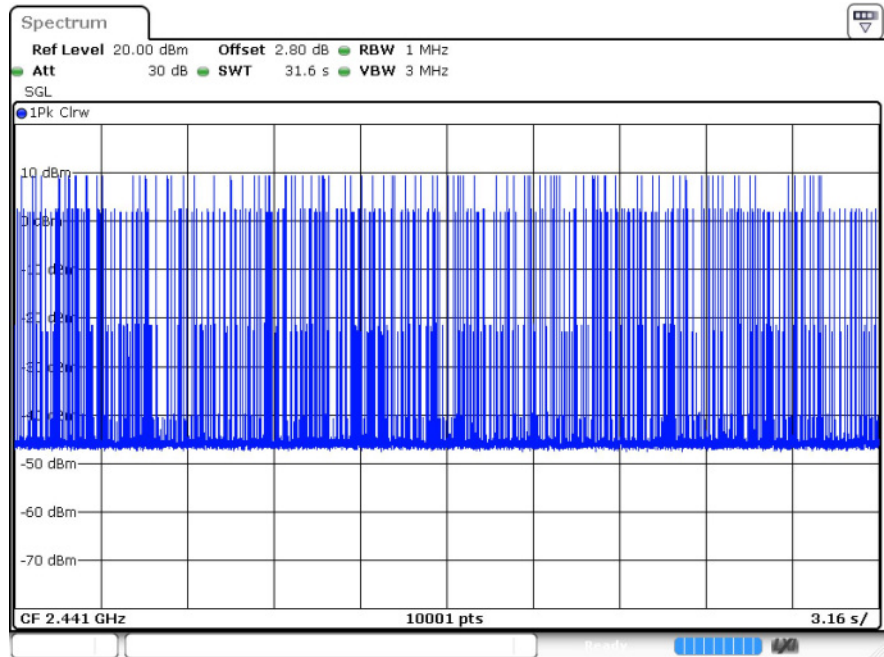
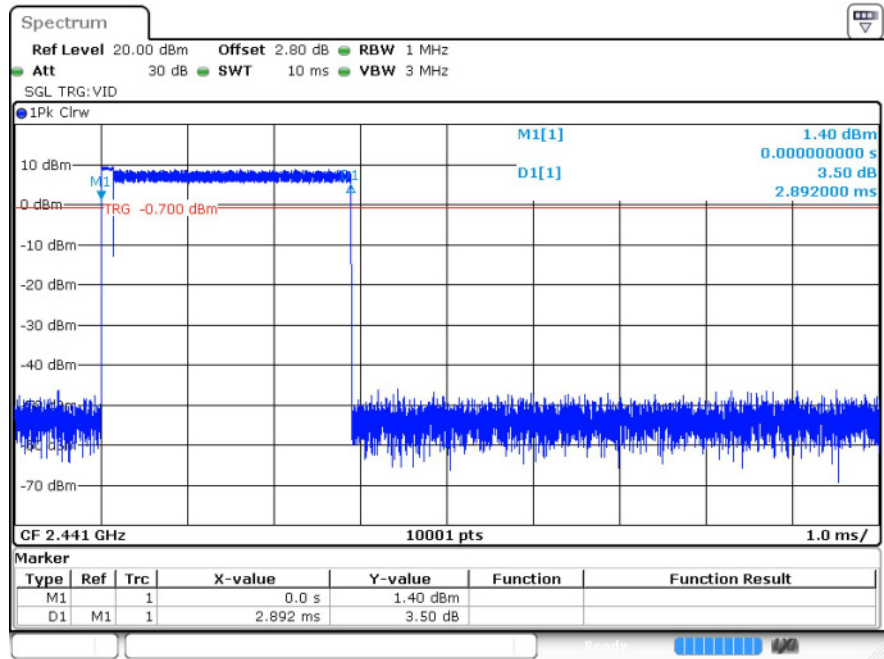
6.2 Test Graphs

Test Graphs

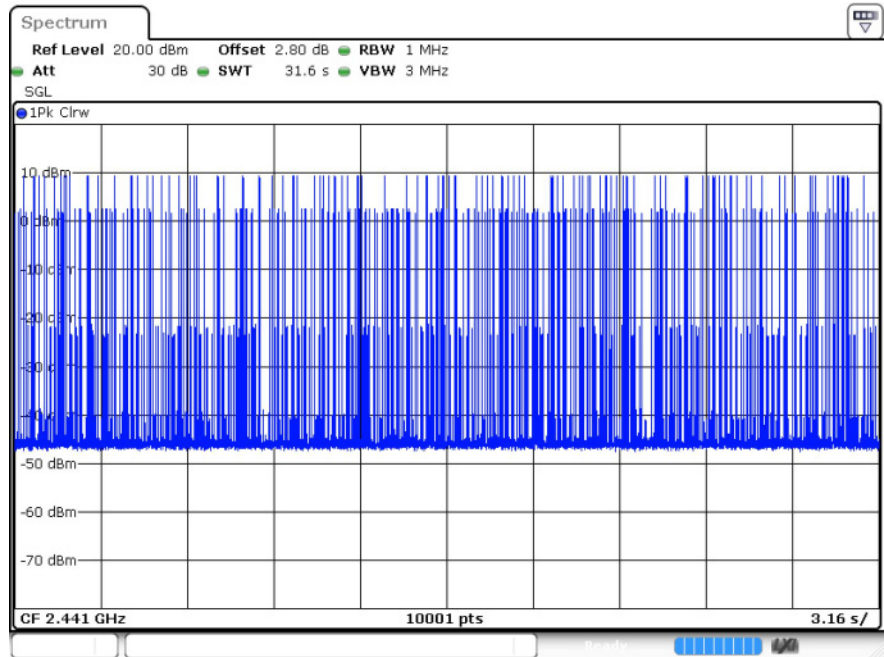
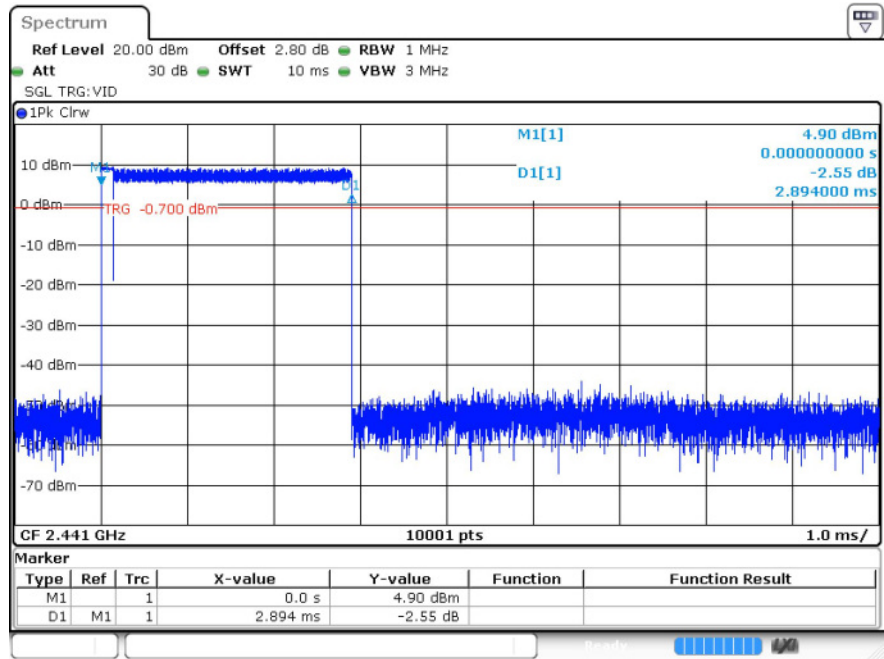
GFSK_DH5/MCH



$\pi/4$ DQPSK
_2DH5/MCH



8DPSK_3DH5/MCH

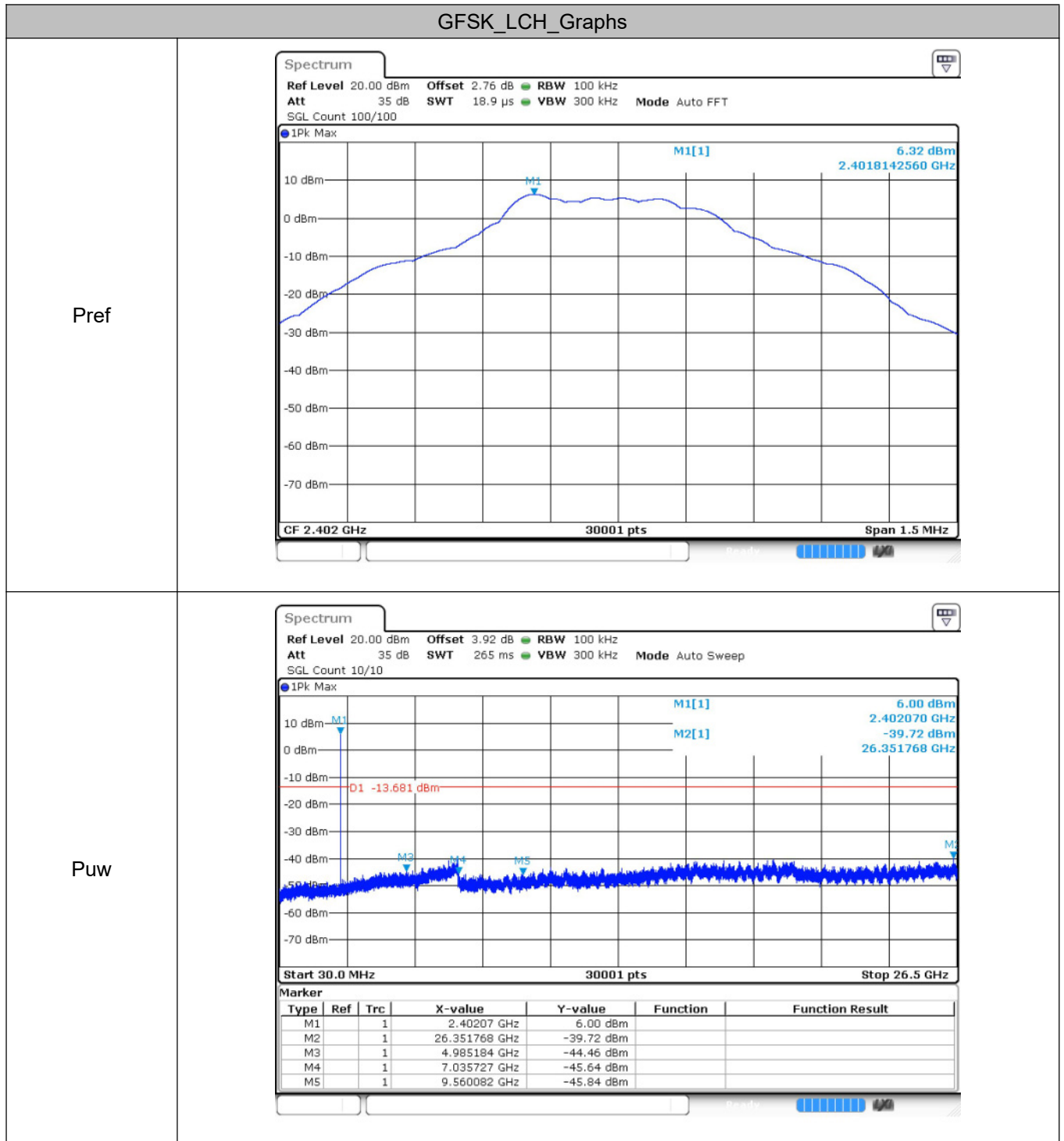


7 RF Conducted Spurious Emissions

7.1 Test Result

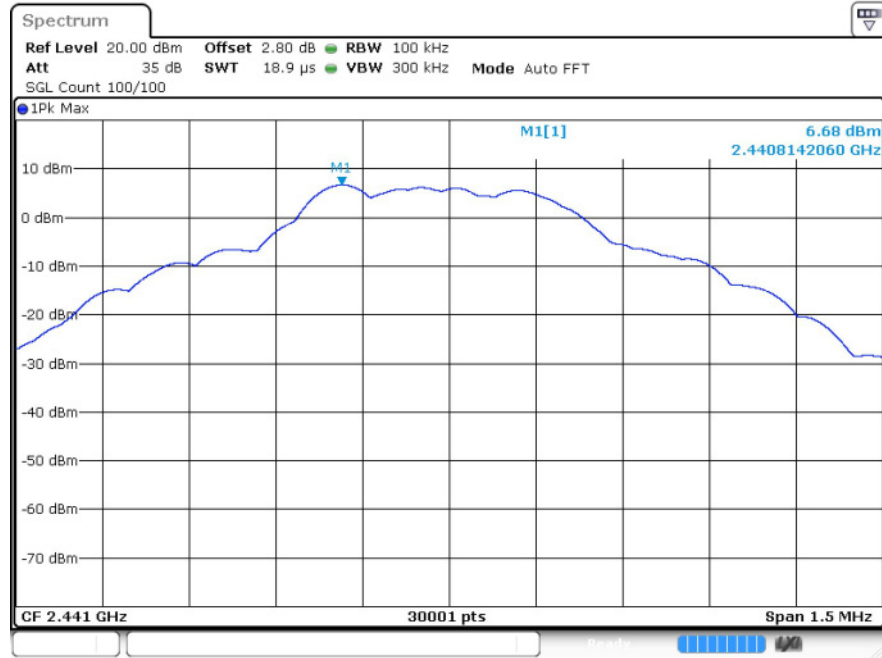
Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-46.03	-20	Pass
	MCH	-46.94	-20	Pass
	HCH	-46.81	-20	Pass
$\pi/4$ DQPSK	LCH	-46.59	-20	Pass
	MCH	-47.25	-20	Pass
	HCH	-48.16	-20	Pass
8DPSK	LCH	-45.82	-20	Pass
	MCH	-45.87	-20	Pass
	HCH	-47.71	-20	Pass

7.2 Test Graphs

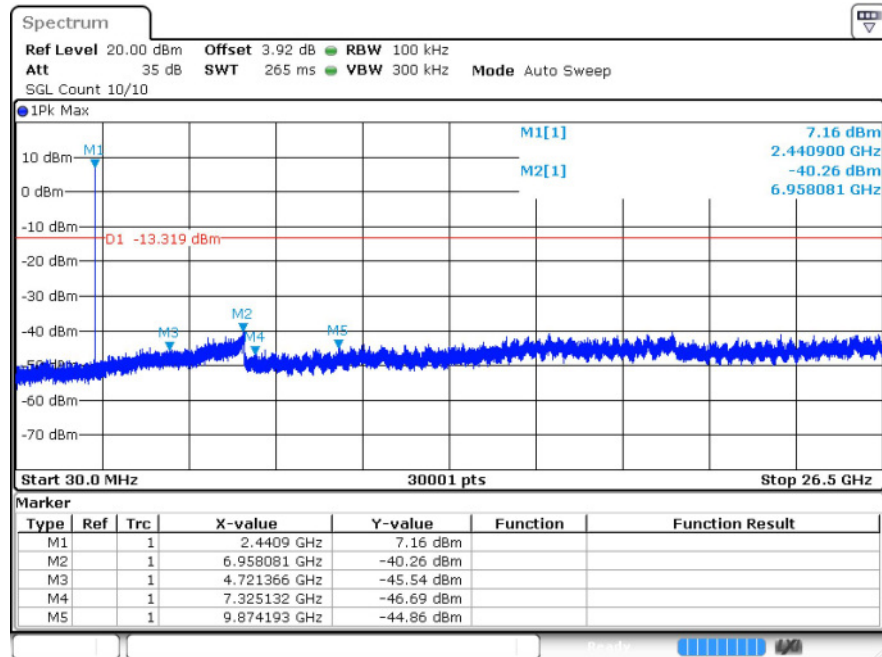


GFSK_MCH_Graphs

Pref

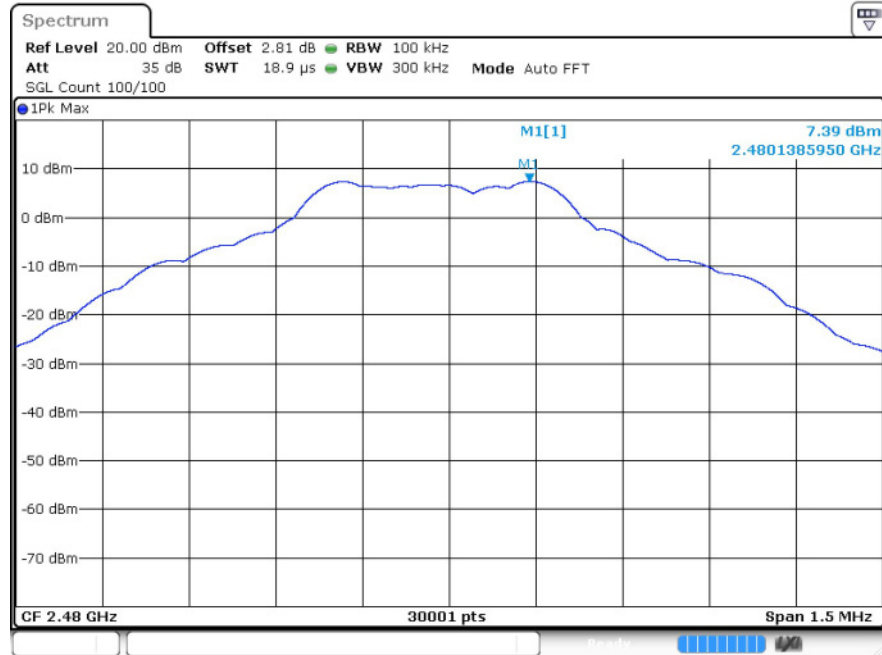


Puw

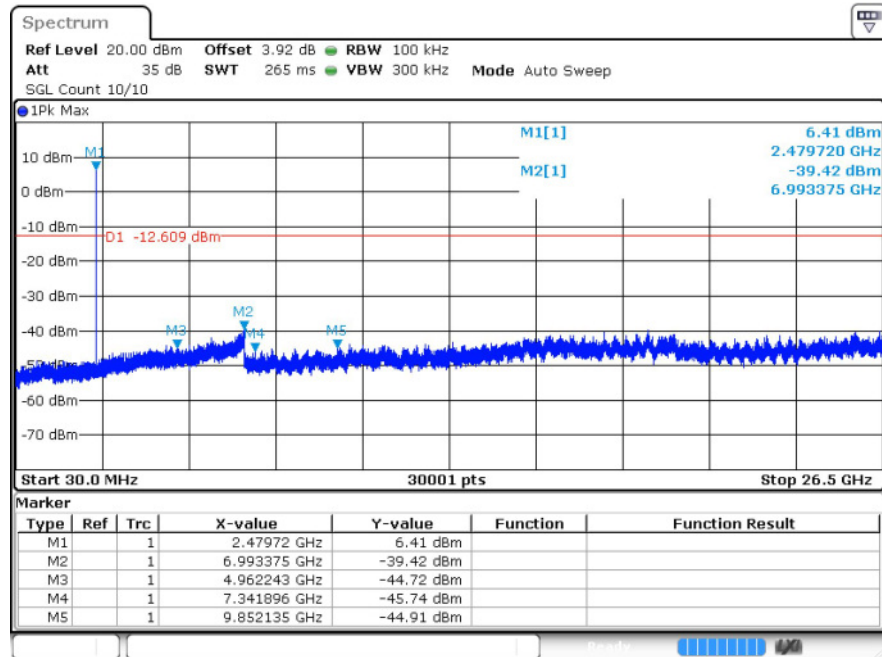


GFSK_HCH_Graphs

Pref

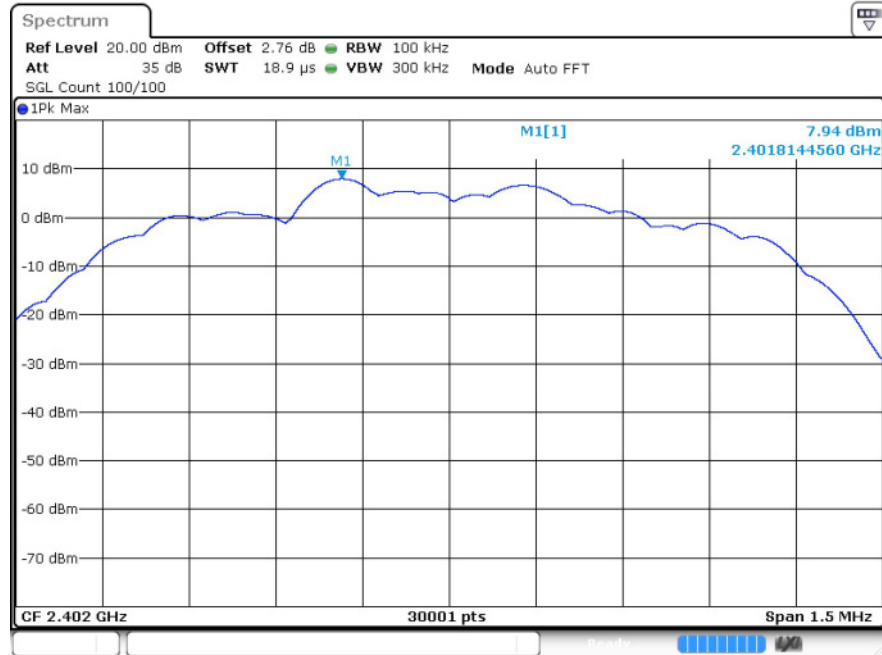


Puw



$\pi/4$ DQPSK_LCH_Graphs

Pref



Puw

