Appendix A

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

Product Name: Tablet

Trade Mark:

SUAAT, UJJ, Oghrti, DEERTIME, ZIOVO, DMOAO, SKYEGG, fezawio, JUEDUR, Biegedy, FACETEL, JUSYEA, SEBBE, Oangcc

Test Model: S10

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

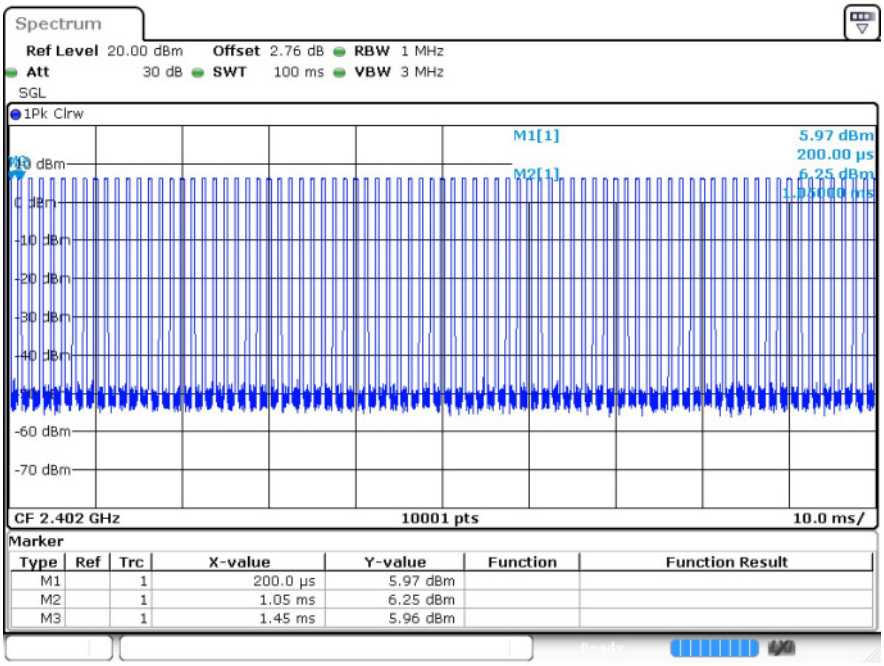
1.1 Test Result

Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor	1/T (kHz)
1-DH1	2402	32.81	4.84	2.5
1-DH1	2441	33.6	4.74	2.44
1-DH1	2480	32.81	4.84	2.5
2-DH1	2402	32.81	4.84	2.5
2-DH1	2441	32.8	4.84	2.5
2-DH1	2480	32.81	4.84	2.5
3-DH1	2402	32.81	4.84	2.5
3-DH1	2441	32.8	4.84	2.5
3-DH1	2480	32.81	4.84	2.5

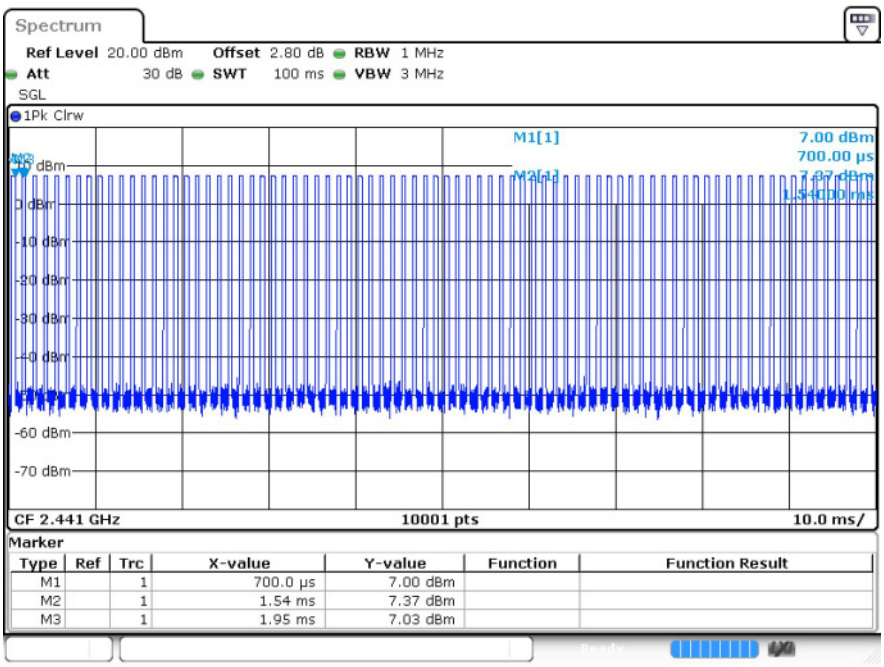
1.2 Test Graphs

Test Graphs

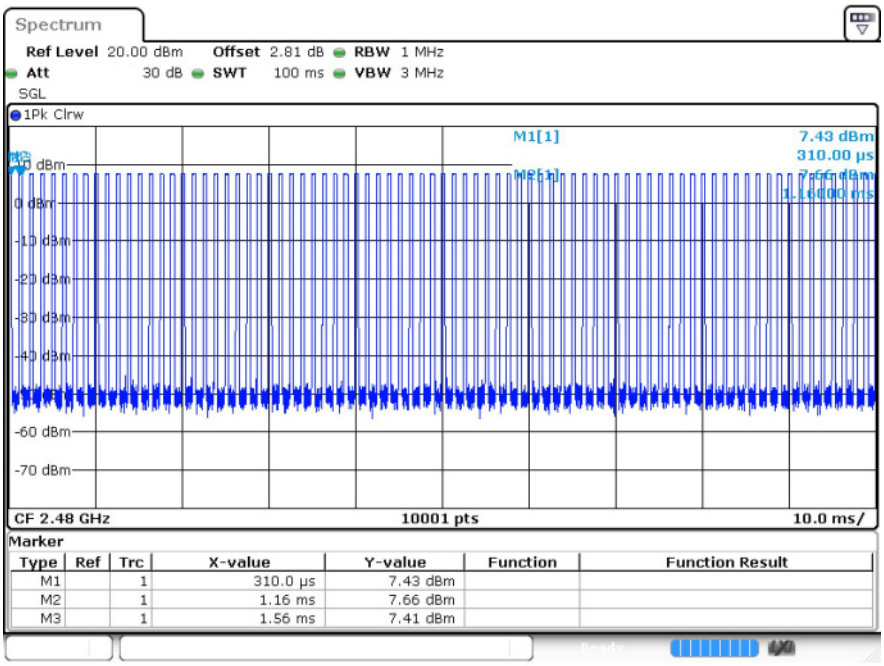
1-DH1 2402MHz



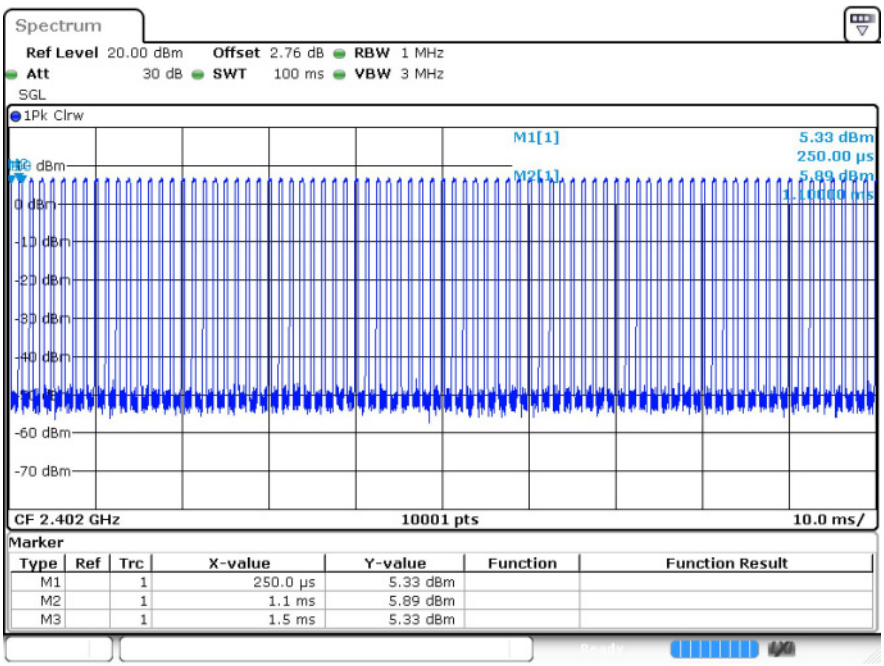
1-DH1 2441MHz



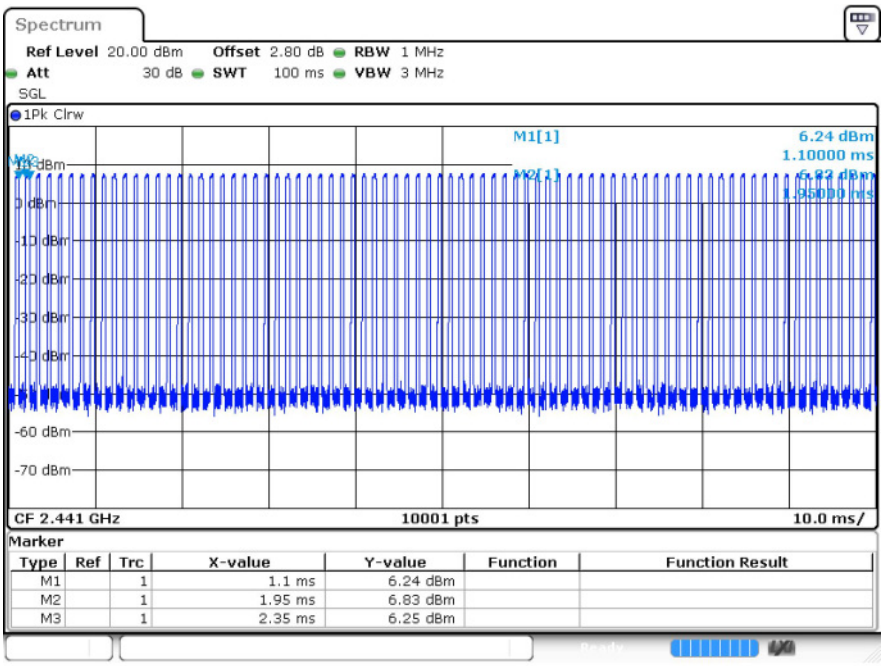
1-DH1 2480MHz



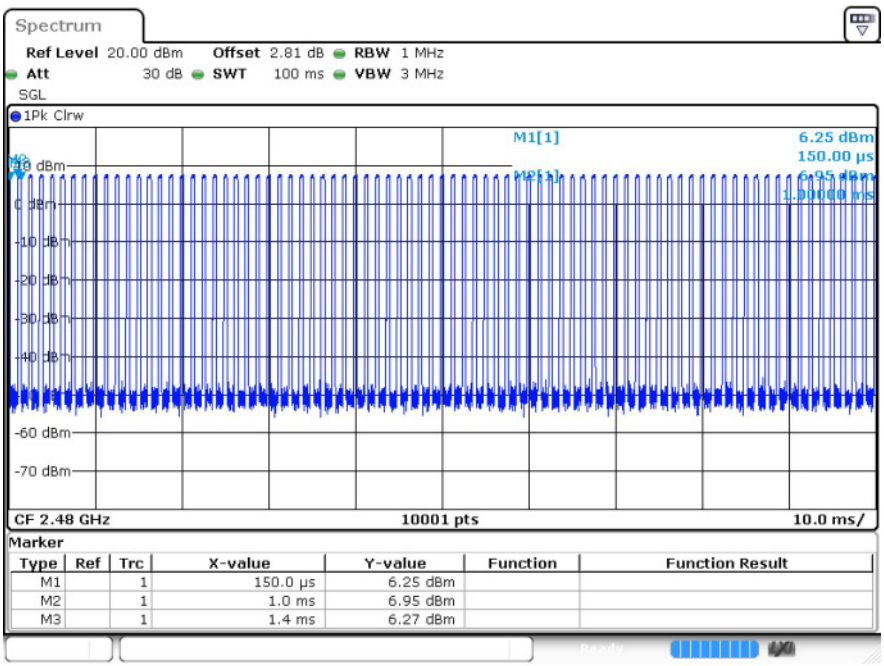
2-DH1 2402MHz



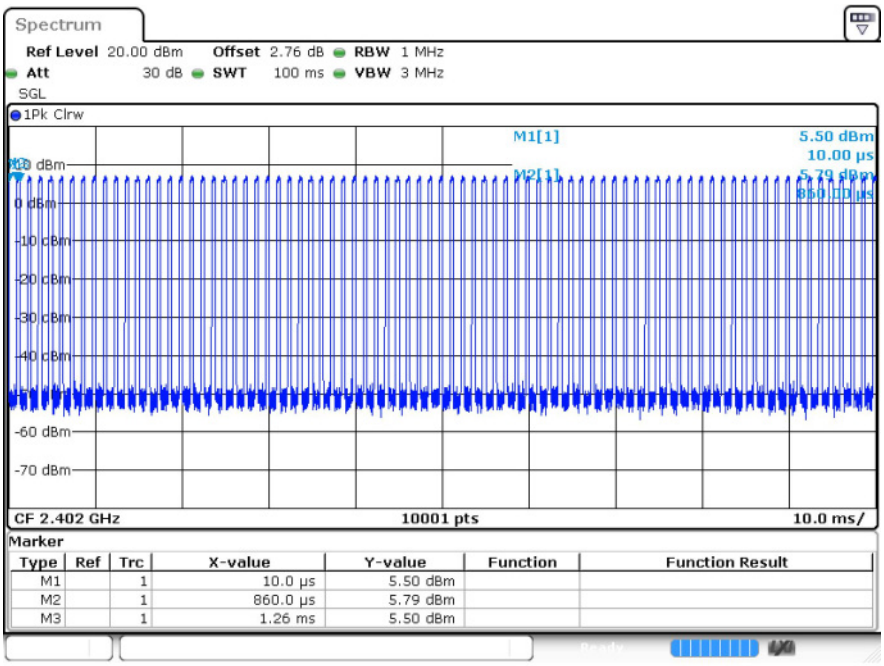
2-DH1 2441MHz



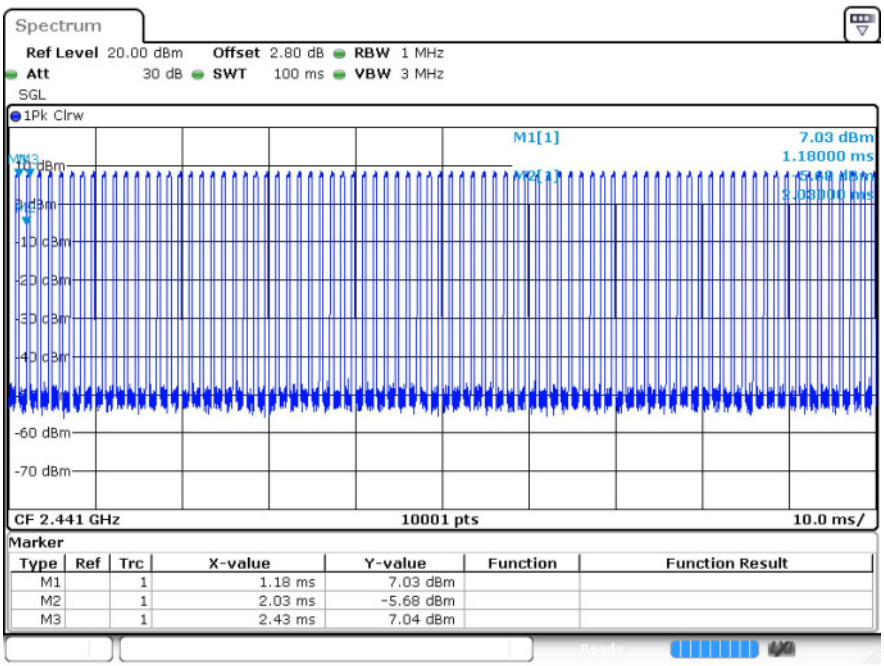
2-DH1 2480MHz



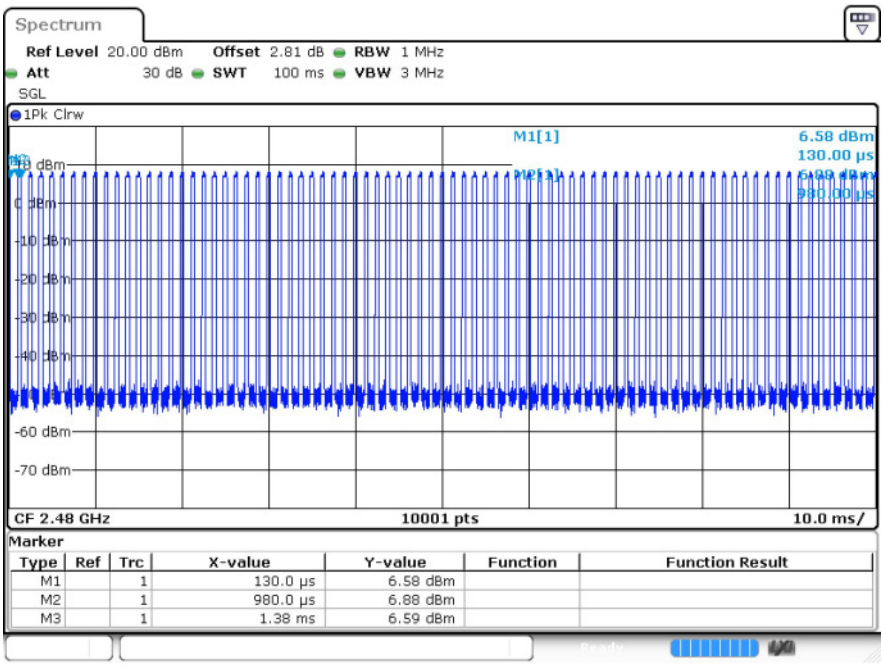
3-DH1 2402MHz



3-DH1 2441MHz



3-DH1 2480MHz

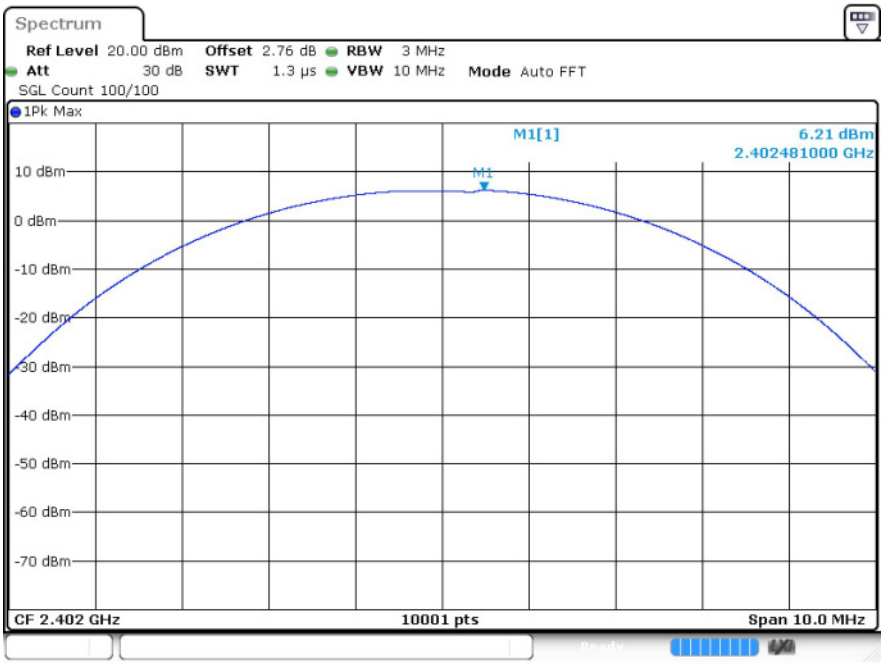
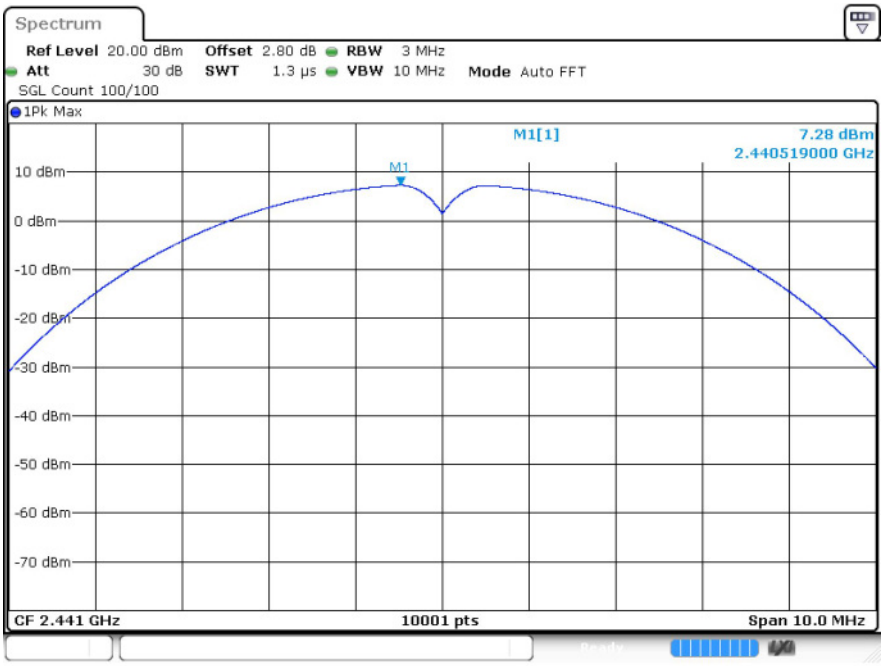


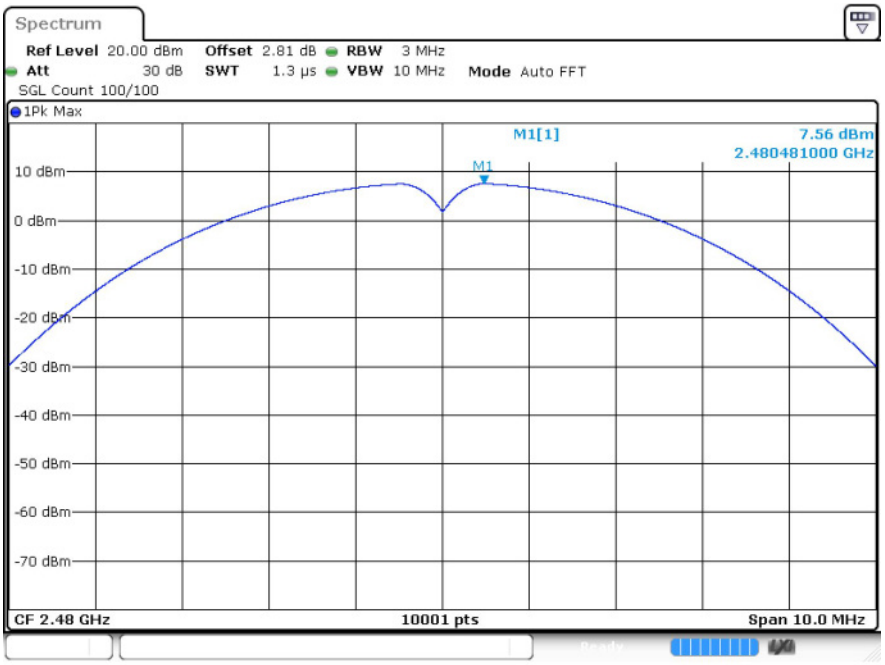
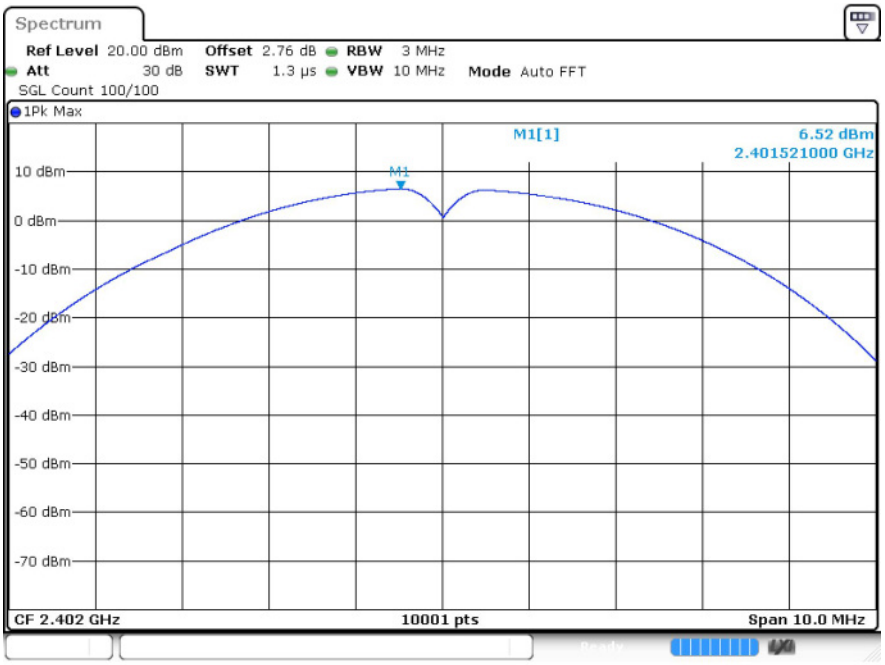
2 Maximum Conducted Peak Output Power

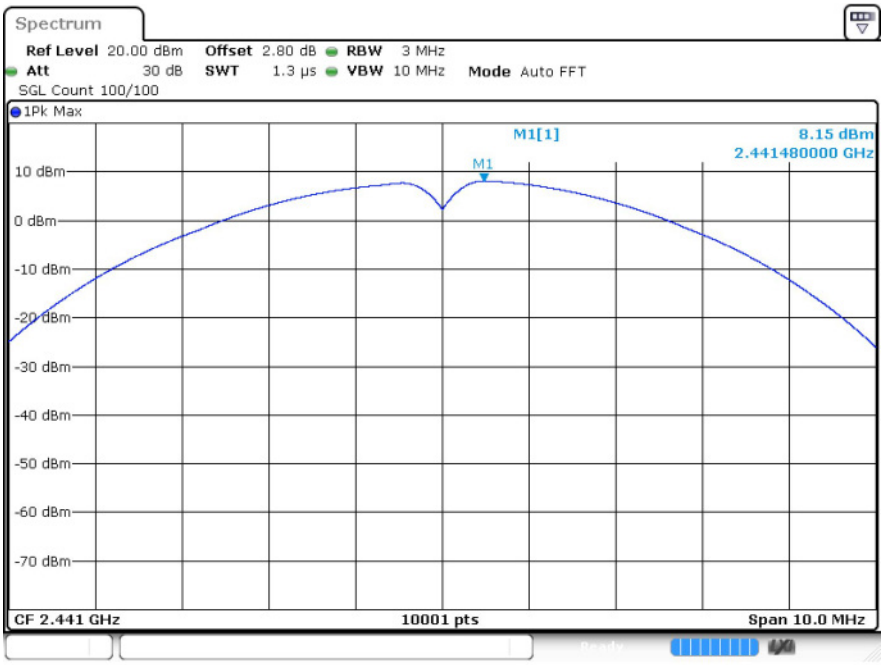
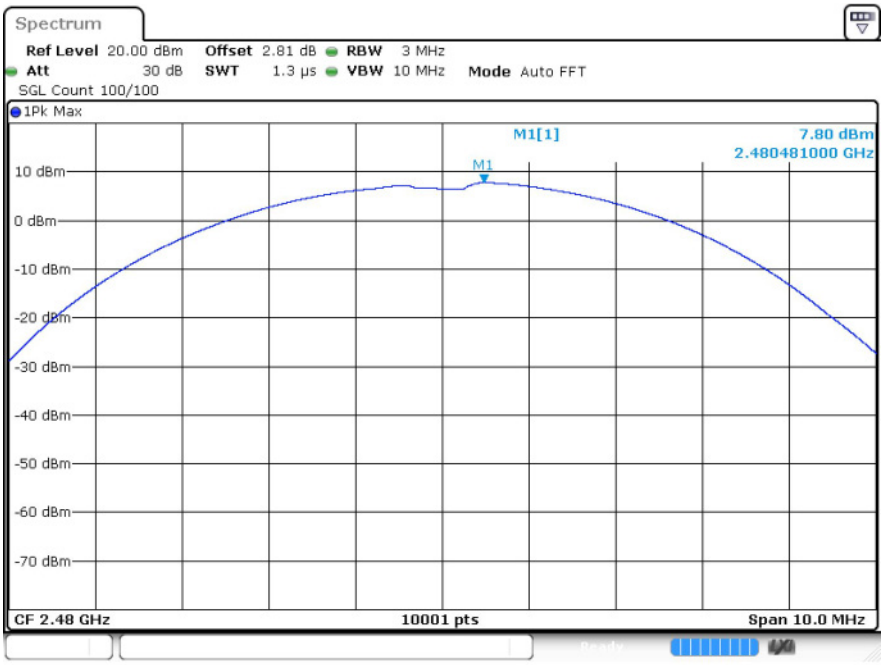
2.1 Test Result

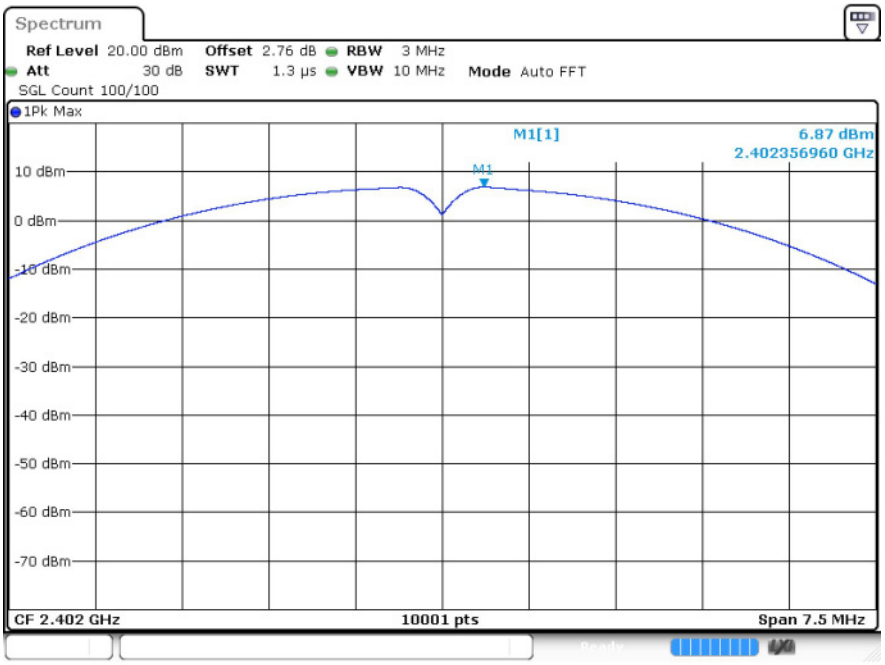
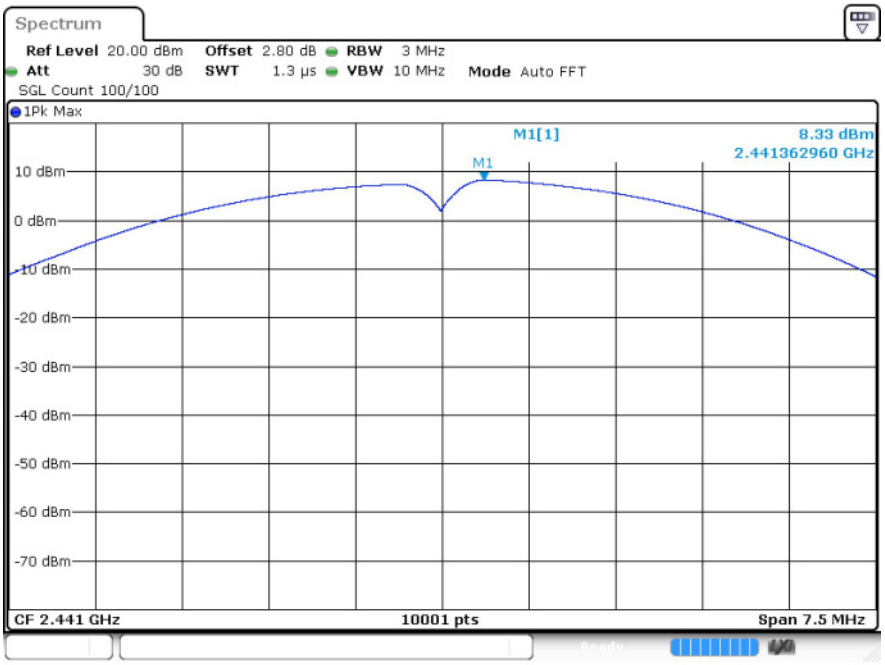
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	6.21	21	Pass
	MCH	7.28	21	Pass
	HCH	7.56	21	Pass
π/4DQPSK	LCH	6.52	21	Pass
	MCH	8.15	21	Pass
	HCH	7.8	21	Pass
8DPSK	LCH	6.87	21	Pass
	MCH	8.33	21	Pass
	HCH	7.63	21	Pass

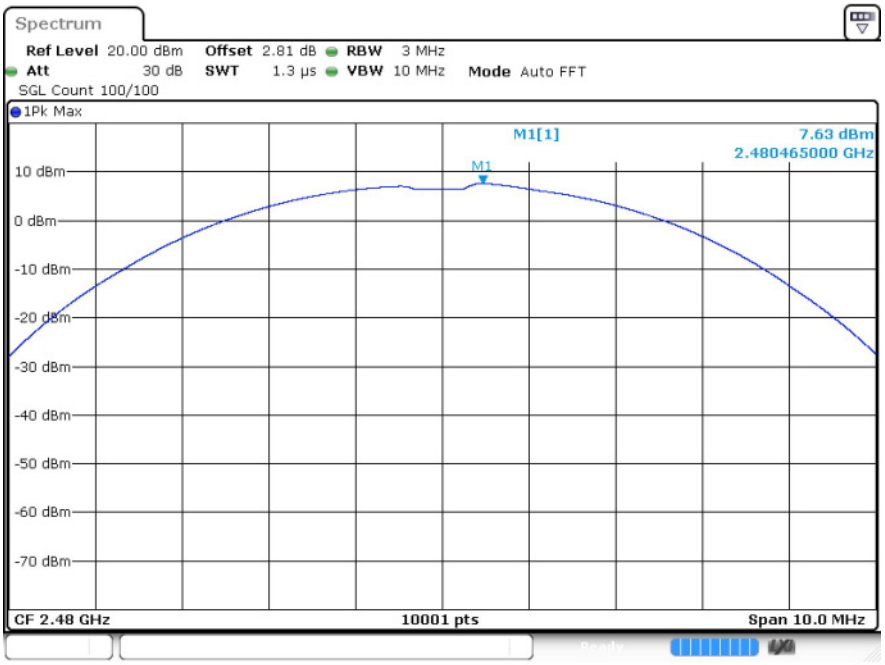
2.2 Test Graphs

Test Graphs	
GFSK/LCH	
GFSK/MCH	

GFSK/HCH	
π/4DQPSK/LCH	

π/4DQPSK/MCH	
π/4DQPSK/HCH	

8DPSK/LCH	
8DPSK/MCH	

8DPSK/HCH	 Spectrum Ref Level 20.00 dBm Offset 2.81 dB RBW 3 MHz Att 30 dB SWT 1.3 µs VBW 10 MHz Mode Auto FFT SGL Count 100/100 1Pk Max M1[1] 7.63 dBm 2.480465000 GHz M1 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.48 GHz 10001 pts Span 10.0 MHz

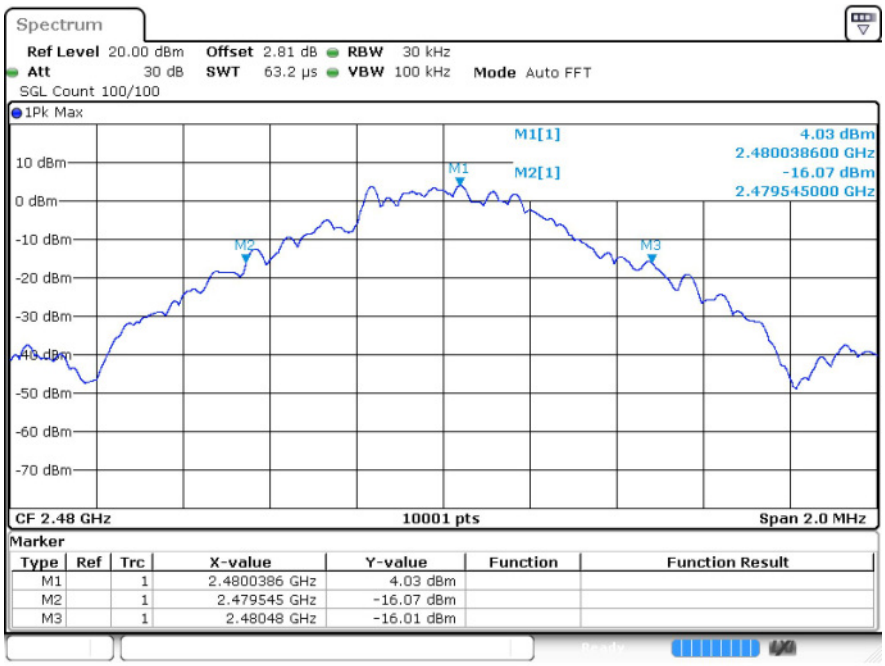
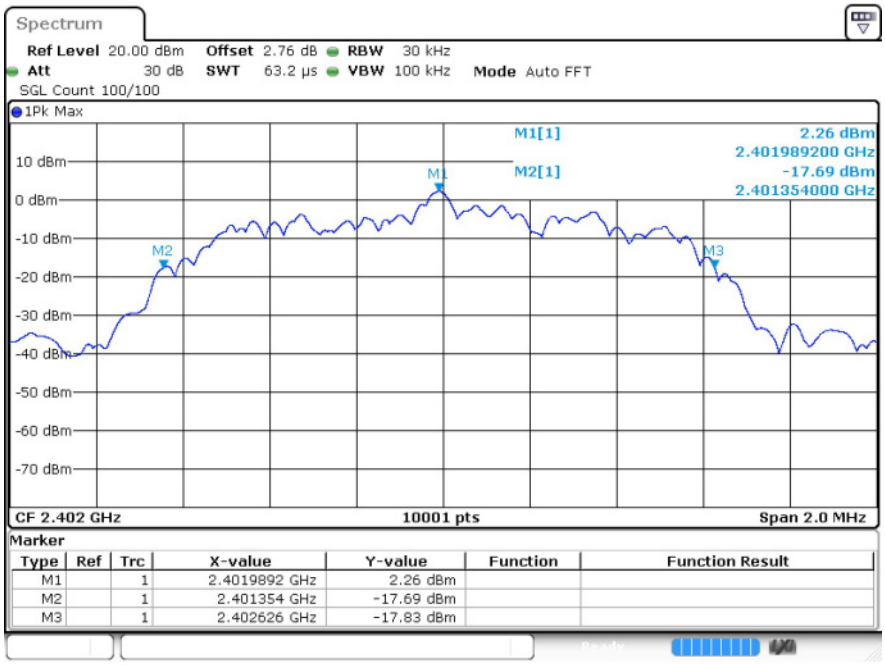
3 20dB Bandwidth

3.1 Test Result

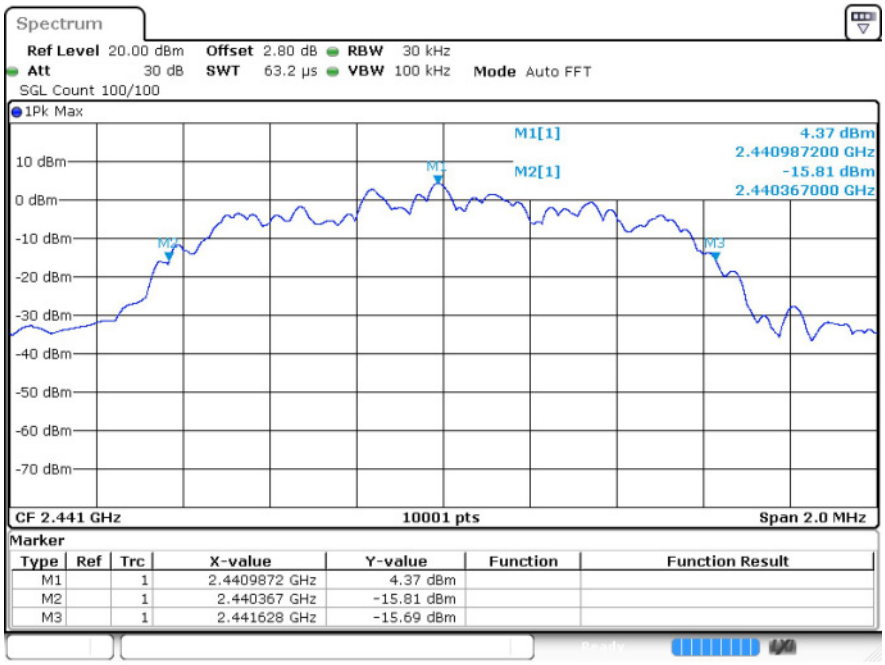
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.778	Not Specified	Pass
	MCH	0.776	Not Specified	Pass
	HCH	0.934	Not Specified	Pass
π/4DQPSK	LCH	1.272	Not Specified	Pass
	MCH	1.26	Not Specified	Pass
	HCH	1.271	Not Specified	Pass
8DPSK	LCH	1.26	Not Specified	Pass
	MCH	1.257	Not Specified	Pass
	HCH	1.273	Not Specified	Pass

3.2 Test Graphs

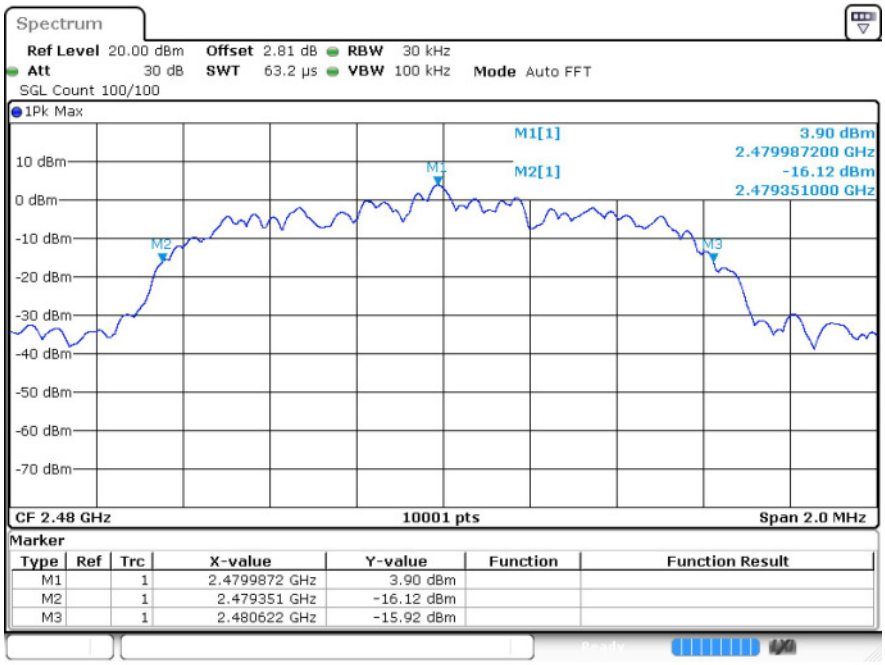
Test Graphs	
GFSK/LCH	
GFSK/MCH	

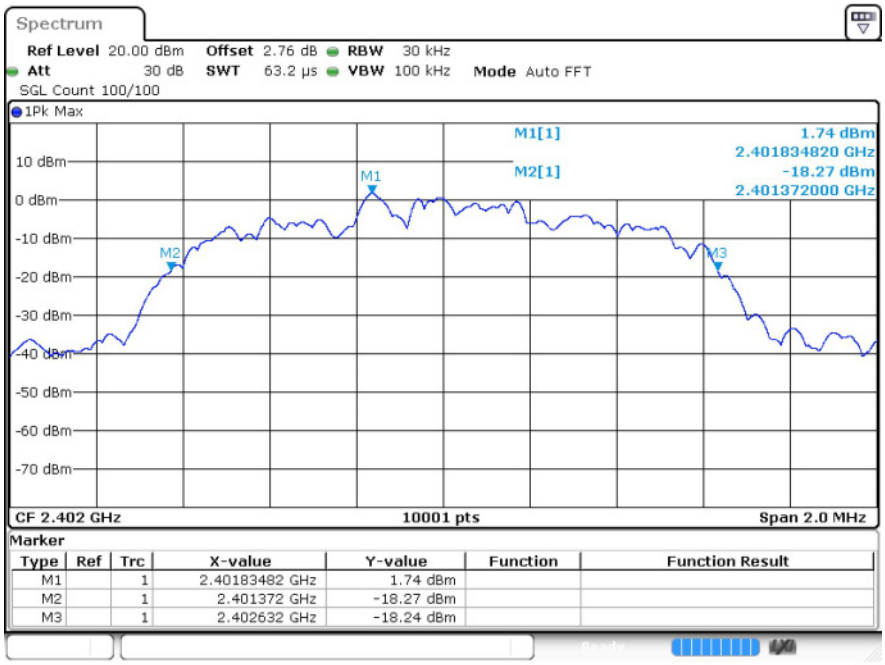
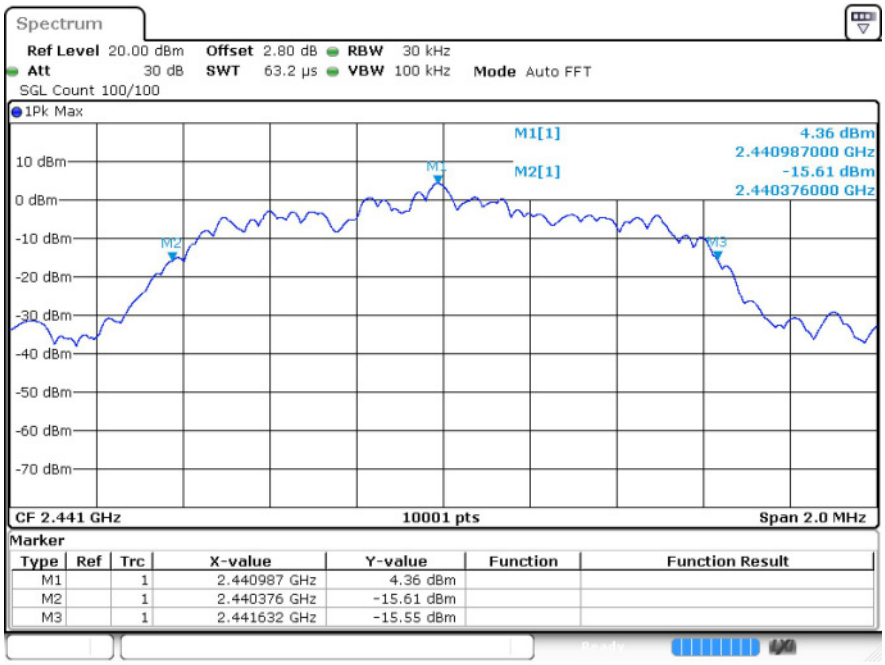
GFSK/HCH	
π/4DQPSK/LCH	

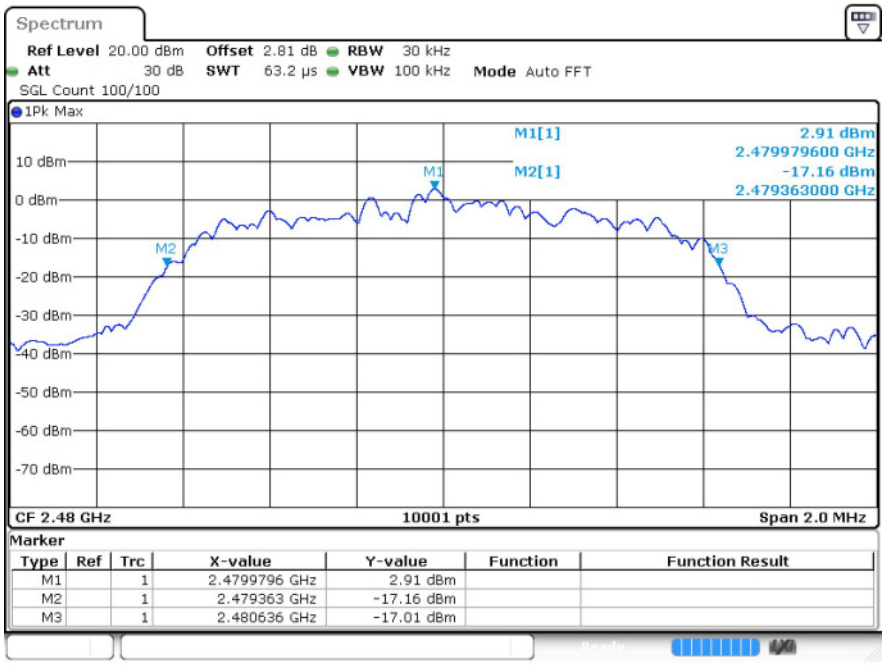
π/4DQPSK/MCH



π/4DQPSK/HCH



8DPSK/LCH	
8DPSK/MCH	

8DPSK/HCH	

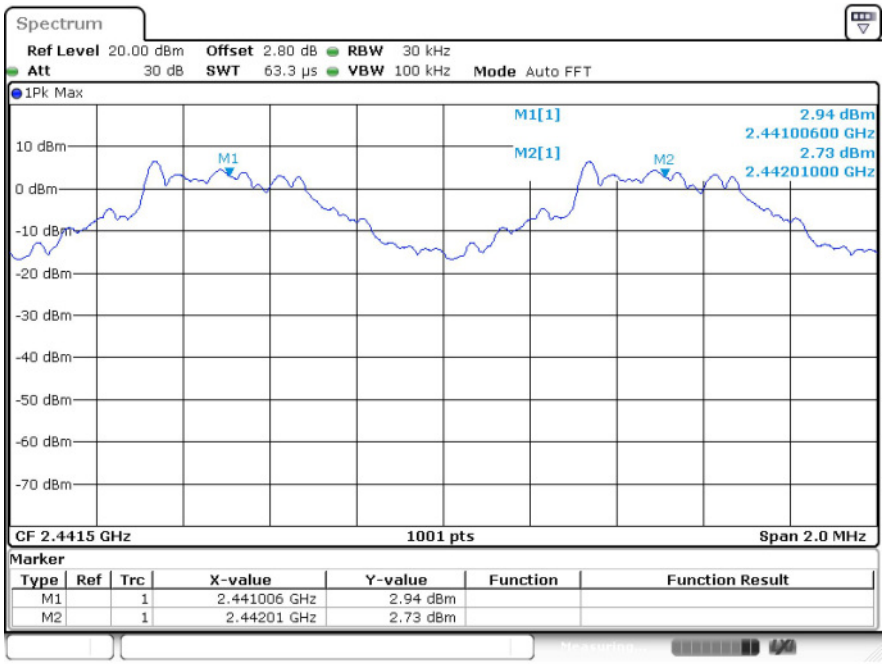
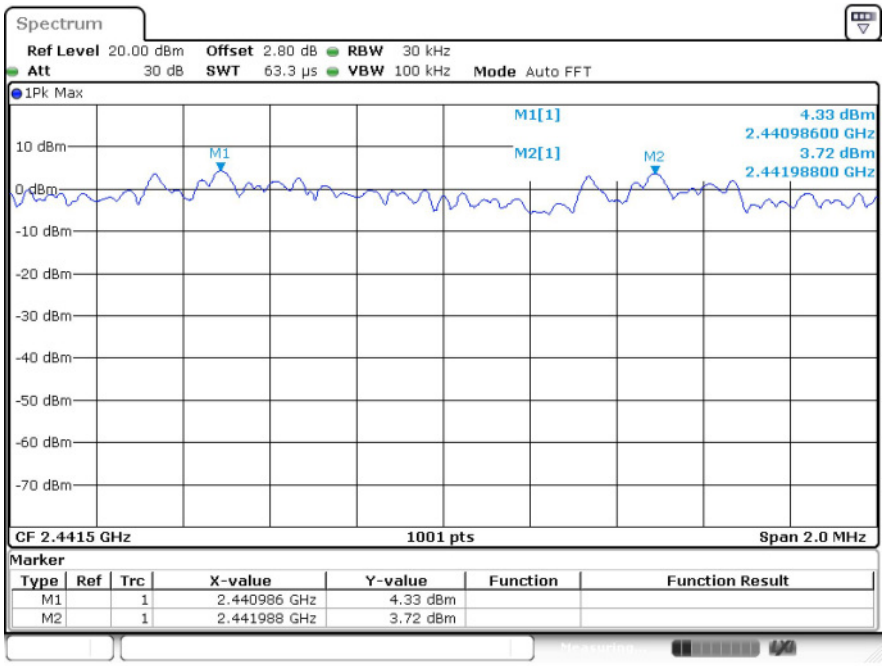
Spectrum
Ref Level 20.00 dBm Offset 2.81 dB RBW 30 kHz
Att 30 dB SWT 63.2 µs VBW 100 kHz Mode Auto FFT
SGL Count 100/100
1Pk Max
M1[1] 2.91 dBm 2.479979600 GHz
M2[1] -17.16 dBm 2.479363000 GHz
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
M1
M2
M3
CF 2.48 GHz
10001 pts
Span 2.0 MHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 2.4799796 GHz 2.91 dBm
M2 1 2.479363 GHz -17.16 dBm
M3 1 2.480636 GHz -17.01 dBm

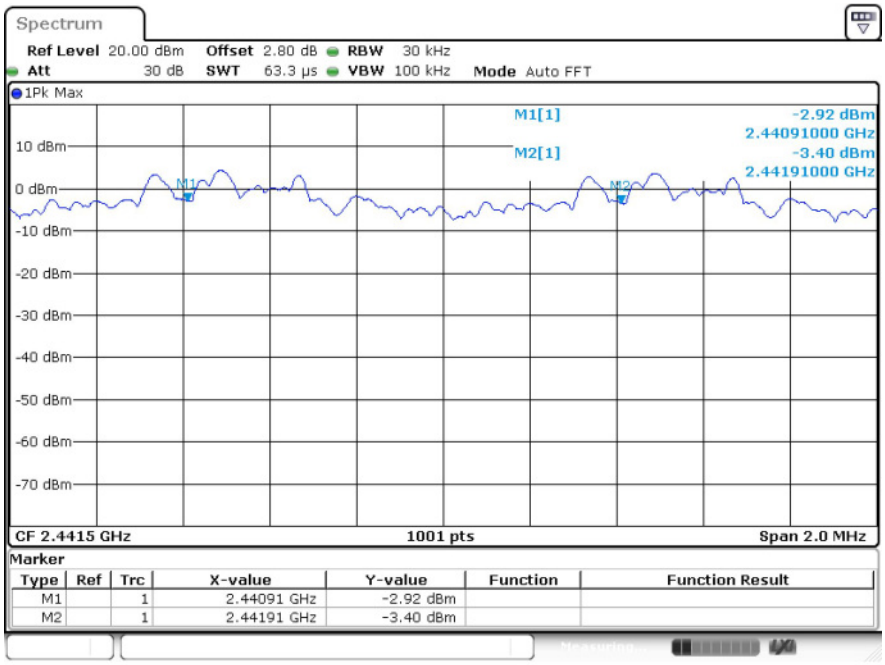
4 Carrier Frequency Separation

4.1 Test Result

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	1.004	0.517	Pass
π/4DQPSK	MCH	1.002	0.84	Pass
8DPSK	MCH	1	0.838	Pass

4.2 Test Graphs

Test Graphs	
GFSK/MCH	
π/4DQPSK/MCH	

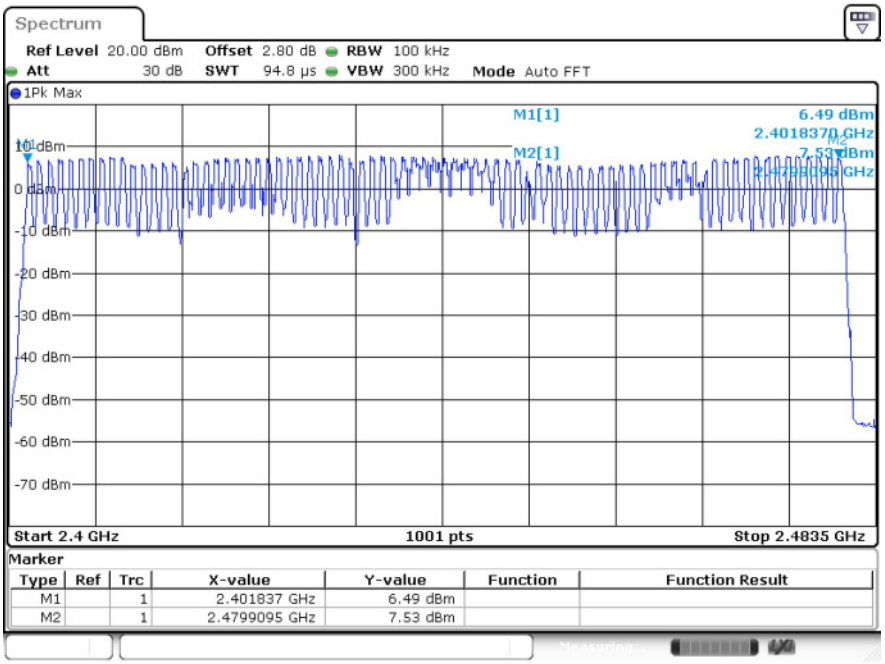
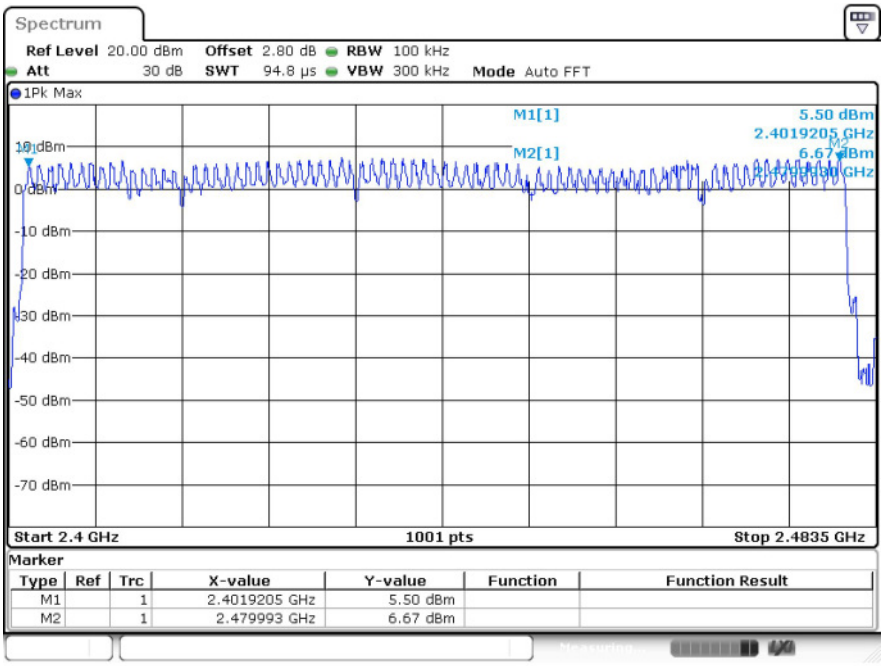
8DPSK/MCH	 Spectrum Ref Level 20.00 dBm Offset 2.80 dB RBW 30 kHz Att 30 dB SWT 63.3 µs VBW 100 kHz Mode Auto FFT 1Pk Max M1[1] -2.92 dBm 2.44091000 GHz M2[1] -3.40 dBm 2.44191000 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.4415 GHz 1001 pts Span 2.0 MHz Marker Type Ref Trc X-value Y-value Function Function Result M1 1 2.44091 GHz -2.92 dBm M2 1 2.44191 GHz -3.40 dBm

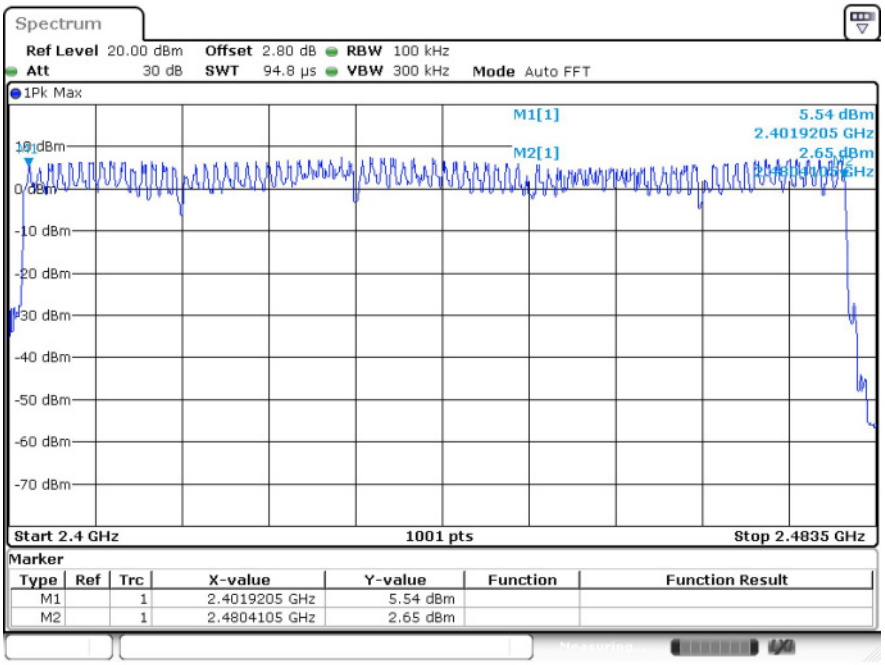
5 Hopping Channel Number

5.1 Test Result

Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	>=15	PASS
π/4DQPSK	Hop	79	>=15	PASS
8DPSK	Hop	79	>=15	PASS

5.2 Test Graphs

Test Graphs	
GFSK/Hop	
π/4DQPSK/Hop	

8DPSK/Hop	

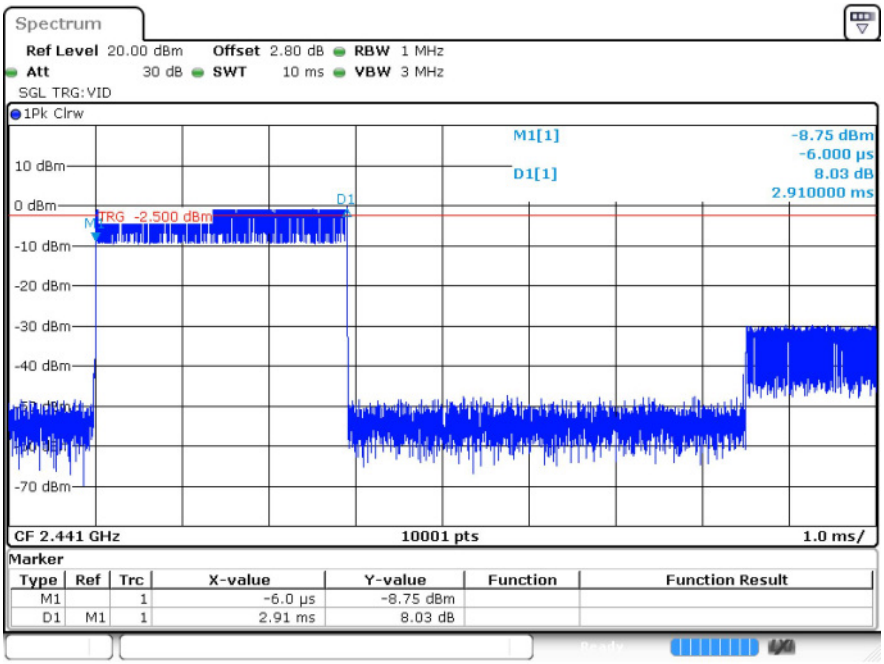
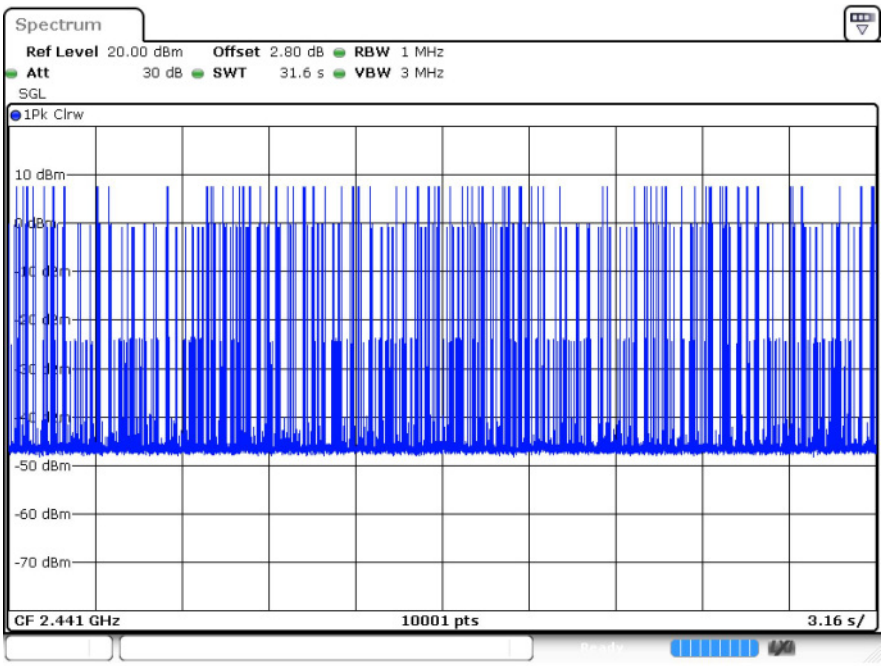
Spectrum
Ref Level 20.00 dBm Offset 2.80 dB RBW 100 kHz
Att 30 dB SWT 94.8 µs VBW 300 kHz Mode Auto FFT
1Pk Max
M1[1] 5.54 dBm 2.4019205 GHz
M2[1] 2.65 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
Start 2.4 GHz 1001 pts Stop 2.4835 GHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 2.4019205 GHz 5.54 dBm
M2 1 2.4804105 GHz 2.65 dBm

6 Dwell Time

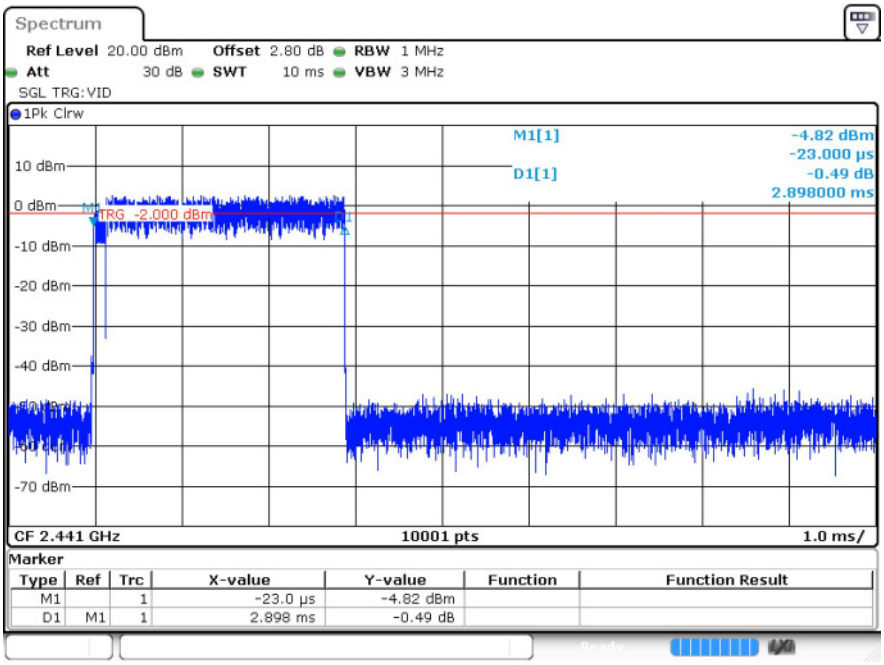
6.1 Test Result

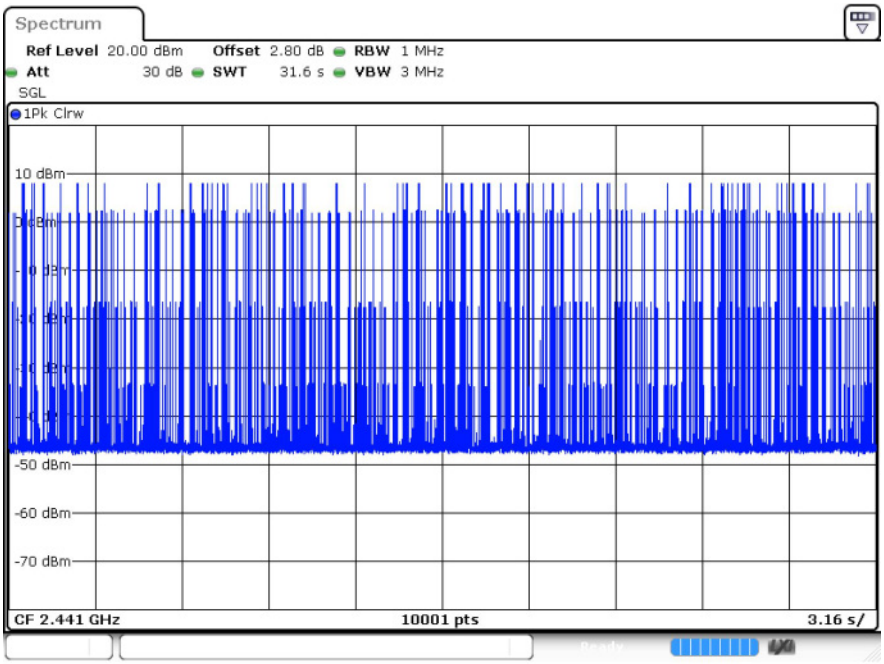
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Limit [s]	Verdict
GFSK	DH5	MCH	2.91	106	308.46	0.4	Pass
π/4DQPSK	2DH5	MCH	2.898	97	281.106	0.4	Pass
8DPSK	3DH5	MCH	2.898	101	292.698	0.4	Pass

6.2 Test Graphs

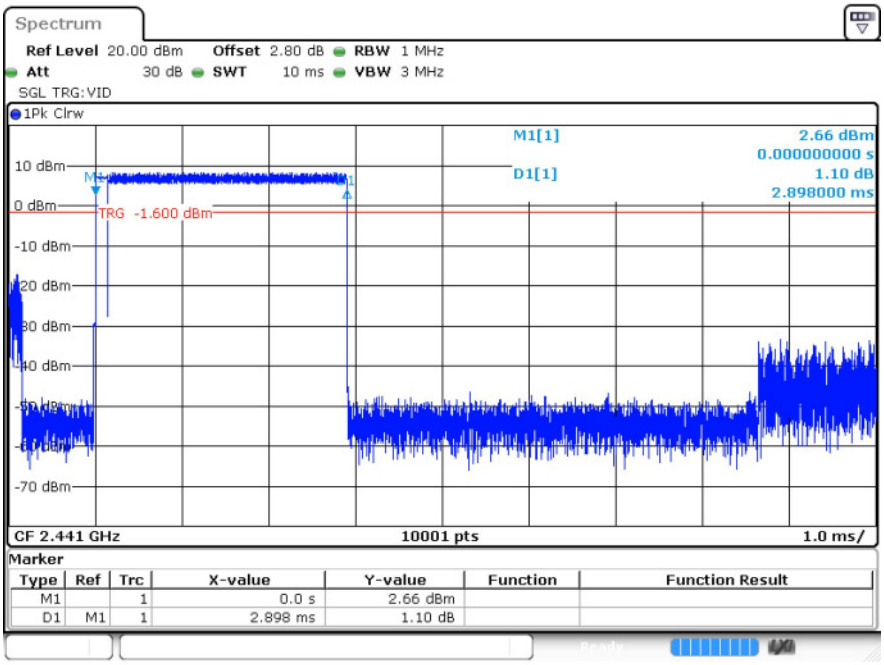
Test Graphs	
GFSK_DH5/MCH	 

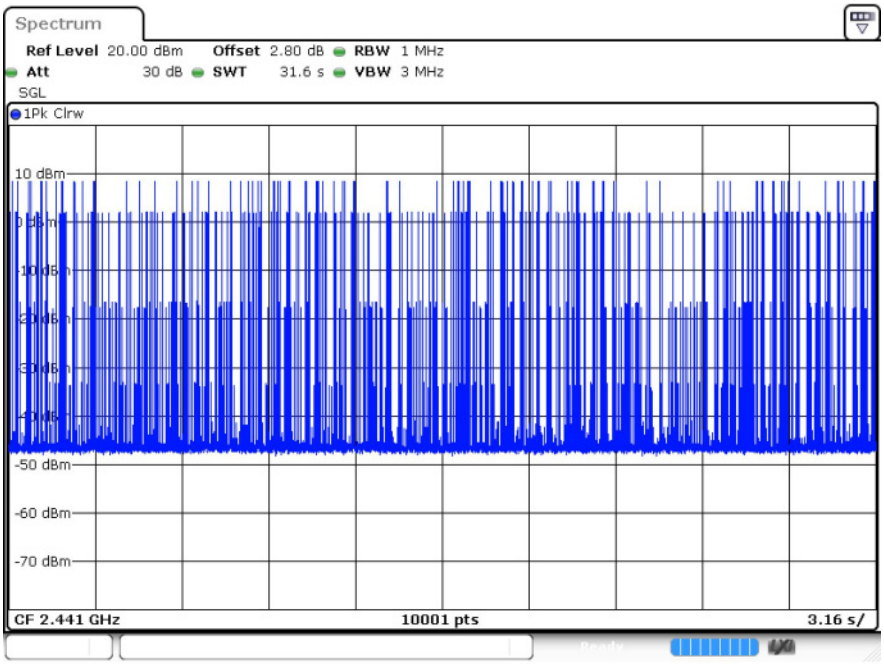
π/4DQPSK
_2DH5/MCH





8DPSK _3DH5/MCH



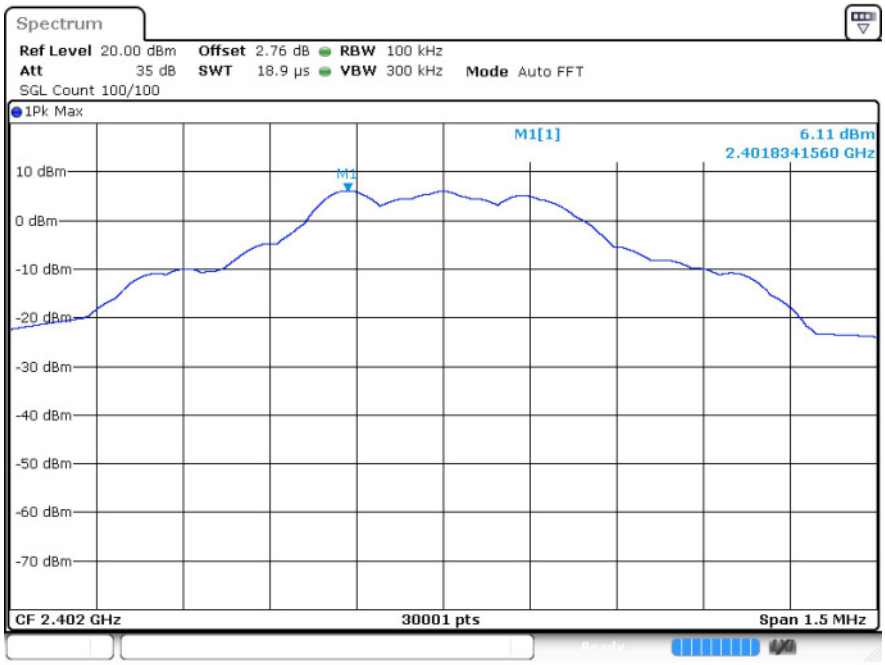
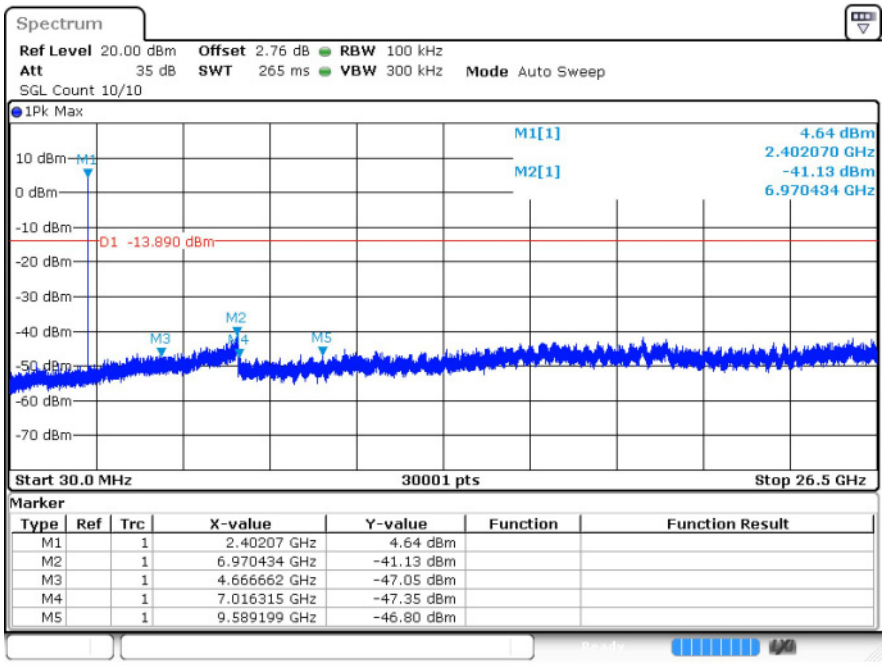


7 RF Conducted Spurious Emissions

7.1 Test Result

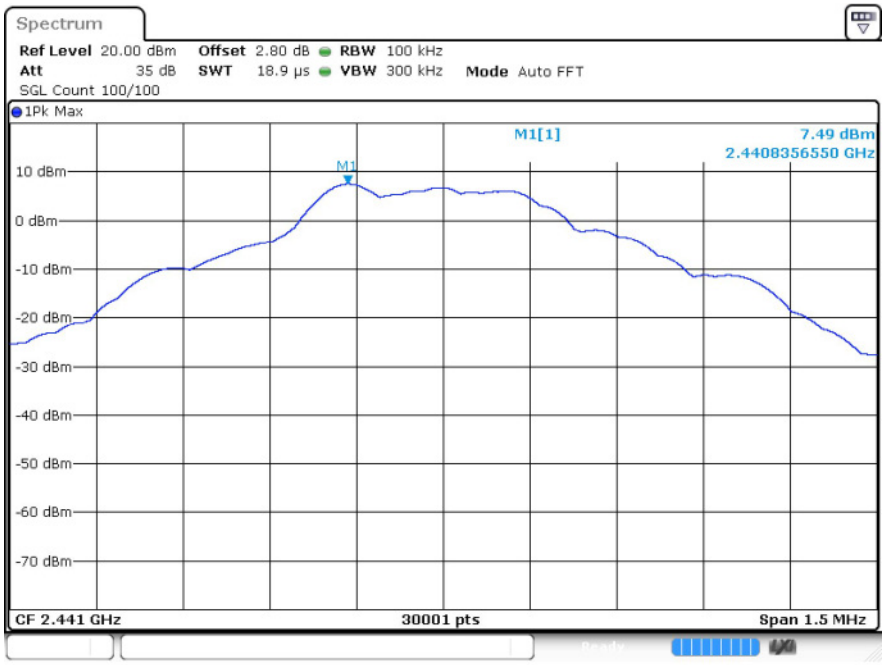
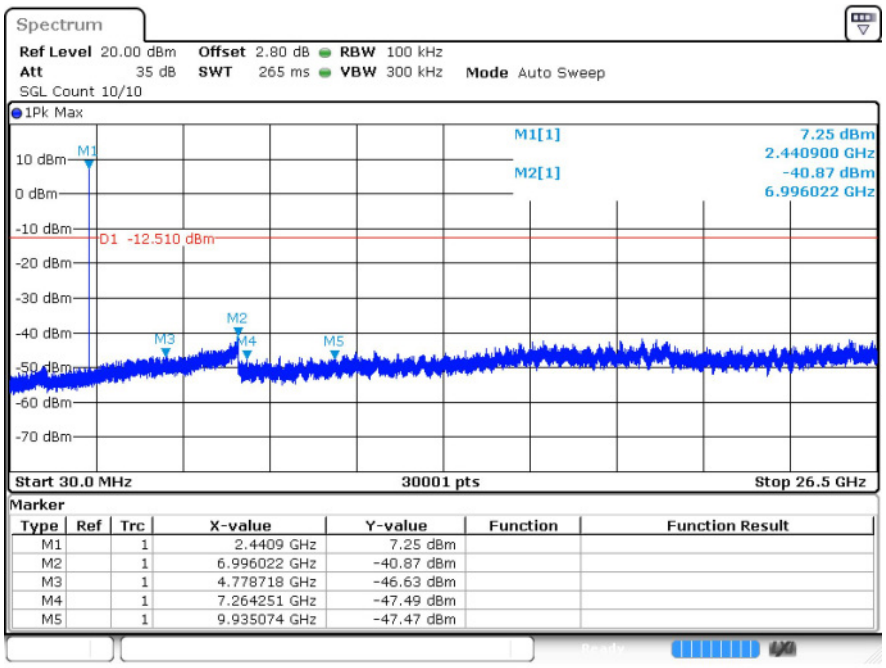
Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-47.24	-20	Pass
	MCH	-48.35	-20	Pass
	HCH	-48.49	-20	Pass
π/4DQPSK	LCH	-46.16	-20	Pass
	MCH	-48.79	-20	Pass
	HCH	-47.86	-20	Pass
8DPSK	LCH	-45.77	-20	Pass
	MCH	-47.42	-20	Pass
	HCH	-48.13	-20	Pass

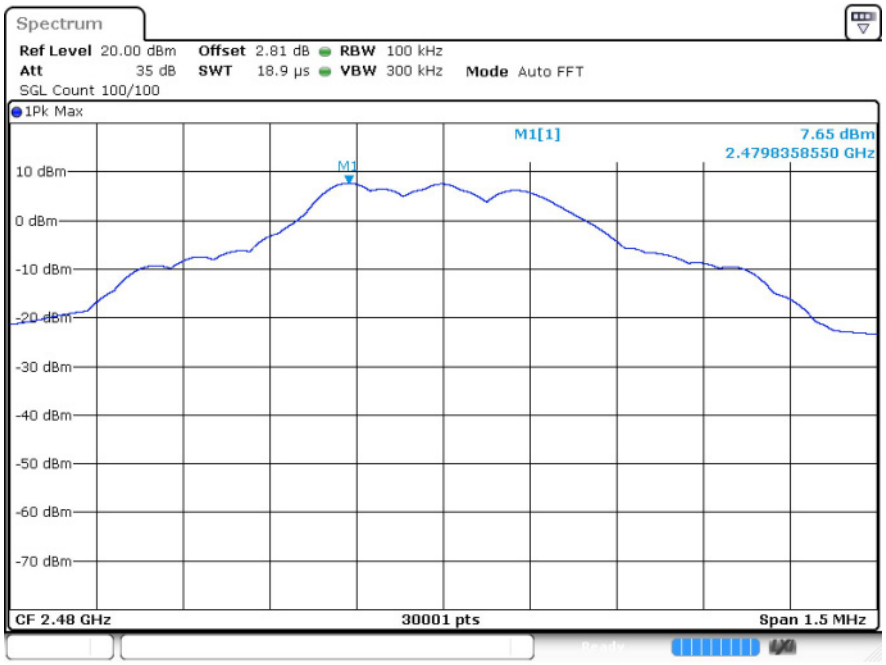
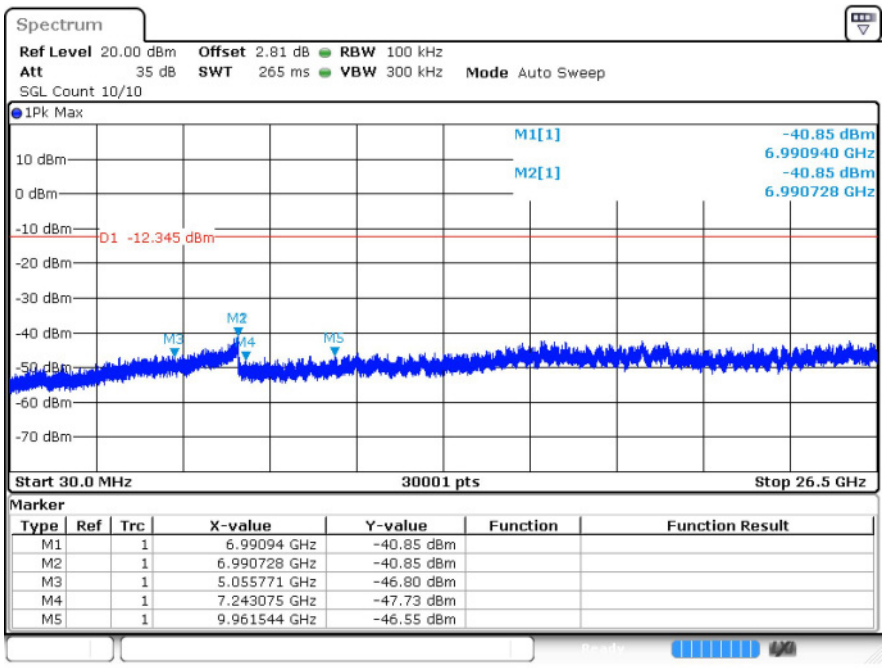
7.2 Test Graphs

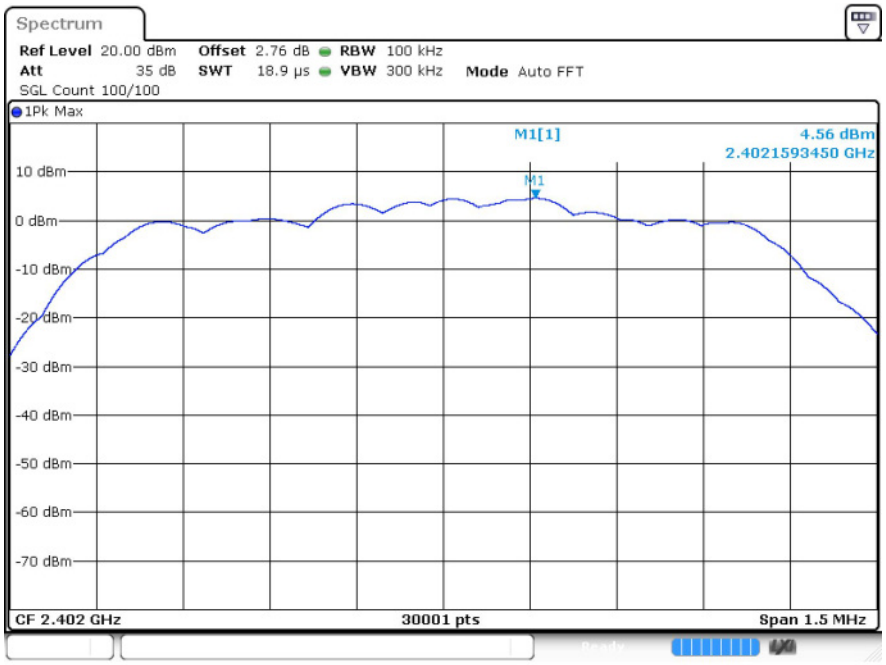
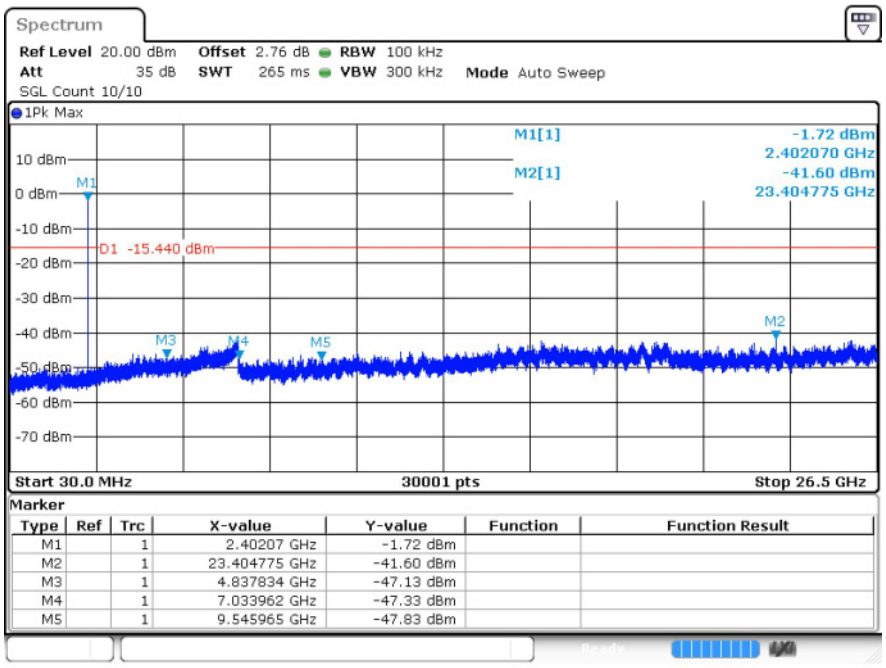
GFSK_LCH_Graphs	
Pref	
Puw	

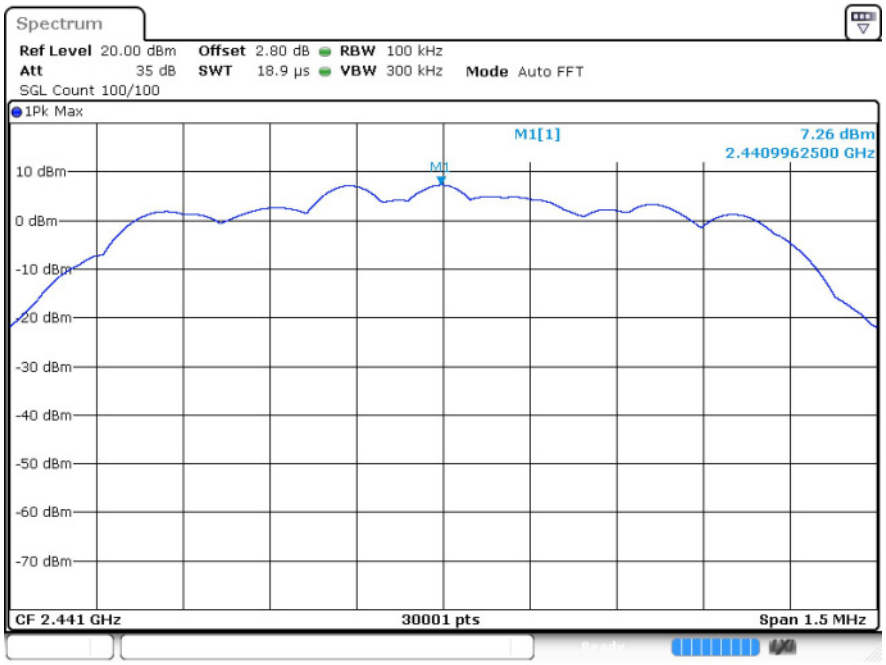
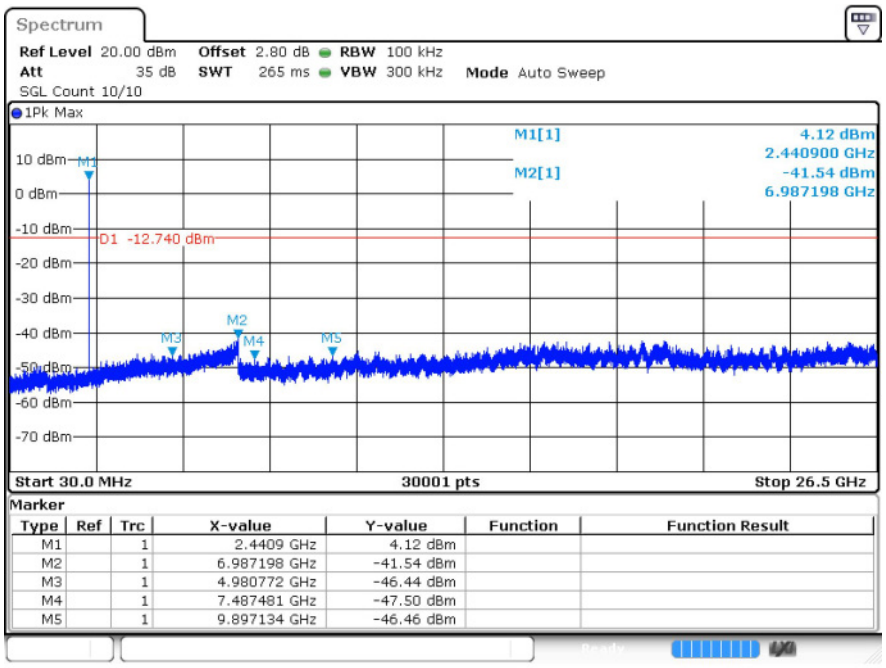
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40207 GHz	4.64 dBm		
M2		1	6.970434 GHz	-41.13 dBm		
M3		1	4.666662 GHz	-47.05 dBm		
M4		1	7.016315 GHz	-47.35 dBm		
M5		1	9.589199 GHz	-46.80 dBm		

GFSK_MCH_Graphs	
Pref	
Puw	

GFSK_HCH_Graphs	
Pref	
Puw	

π/4DQPSK_LCH_Graphs	
Pref	
Puw	

π/4DQPSK_MCH_Graphs	
Pref	
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