Appendix A

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

Product Name: FK328 Foldable Keyboard

Trade Mark: N/A

Test Model: FK328

Environmental Conditions

Temperature:	18.3℃
Relative Humidity:	51.0%
ATM Pressure:	101Kpa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen

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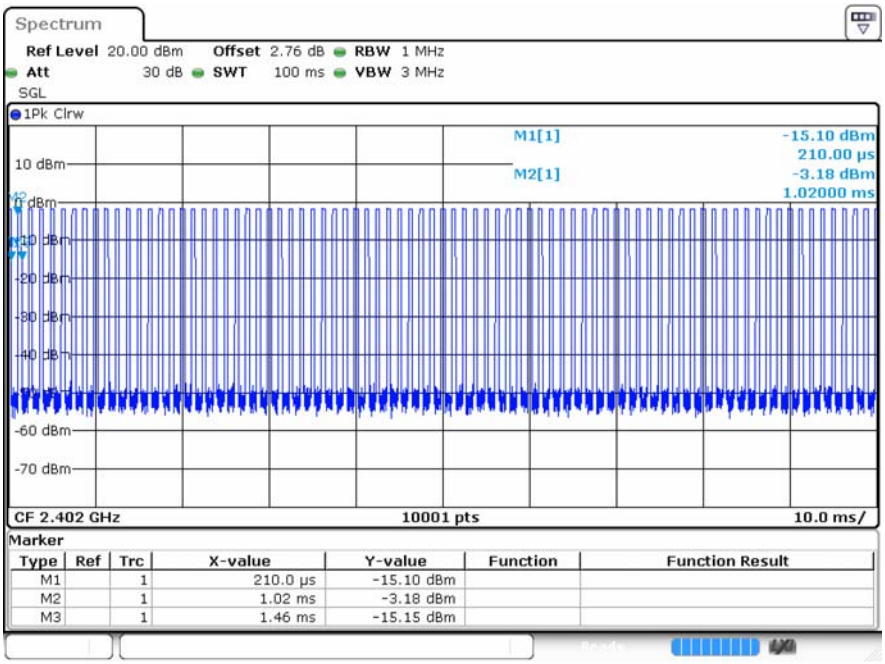
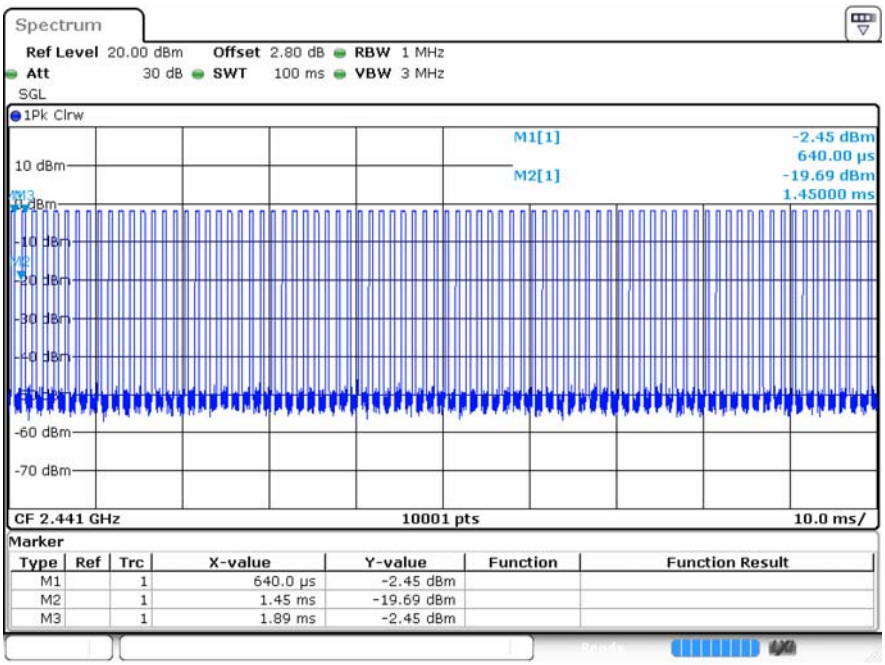
1 Duty Cycle

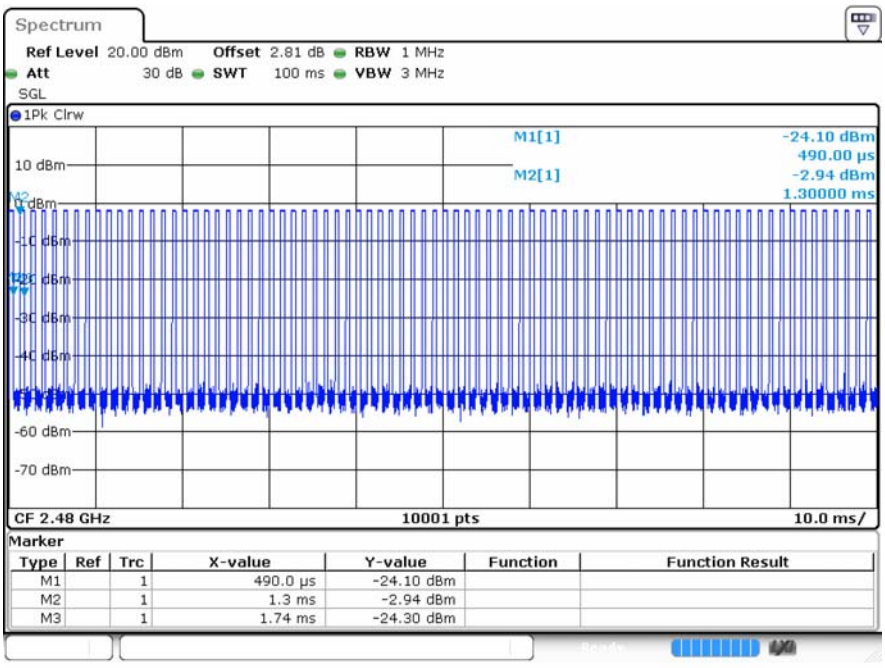
1.1 Test Result

Mode	Frequency (MHz)	Duty Cycle (%)	1/T (kHz)
1-DH1	2402	36.01	2.27
1-DH1	2441	36	2.27
1-DH1	2480	36	2.27

1.2 Test Graphs

Test Graphs
1-DH1 2402MHz

1-DH1 2441MHz


1-DH1 2480MHz

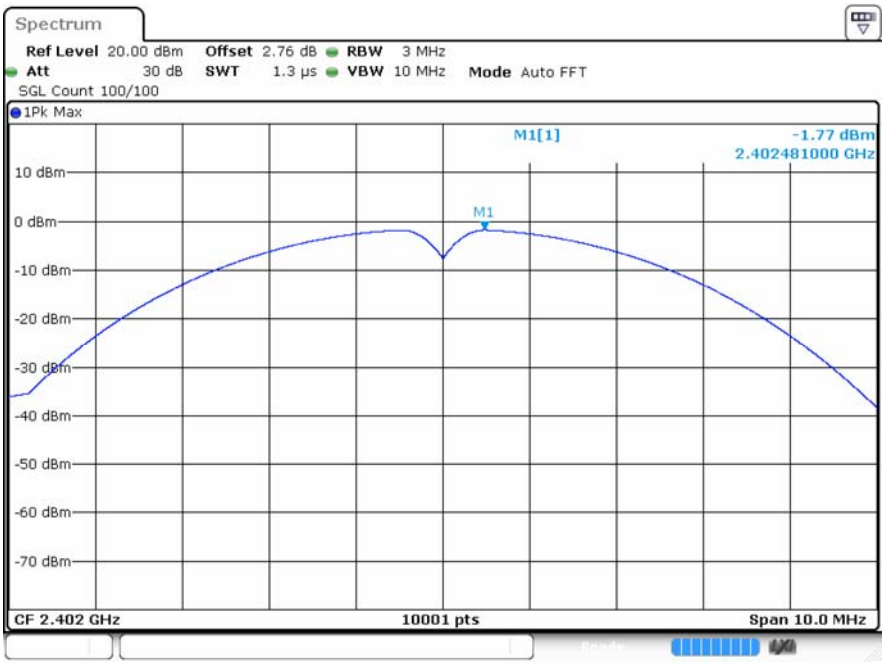
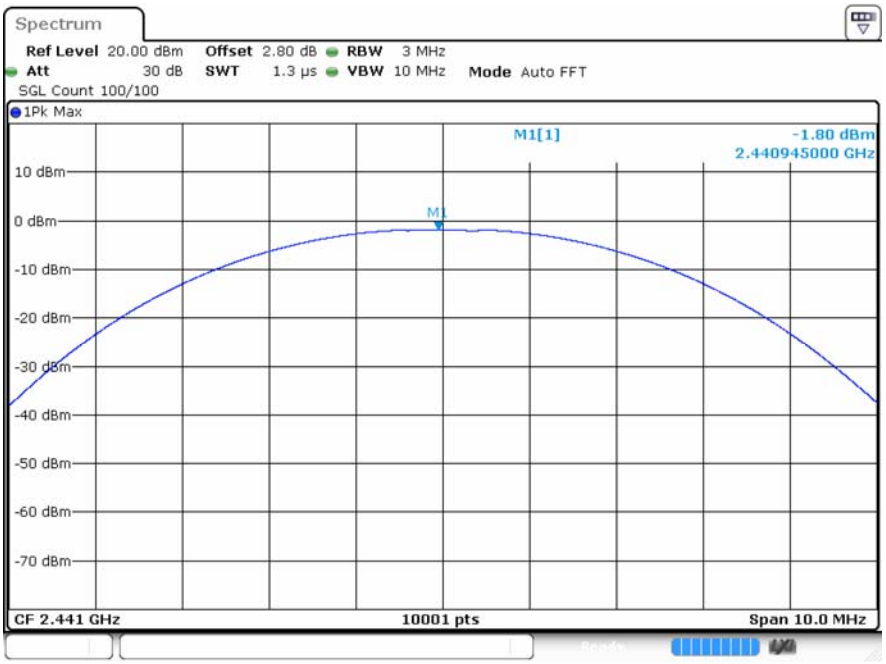


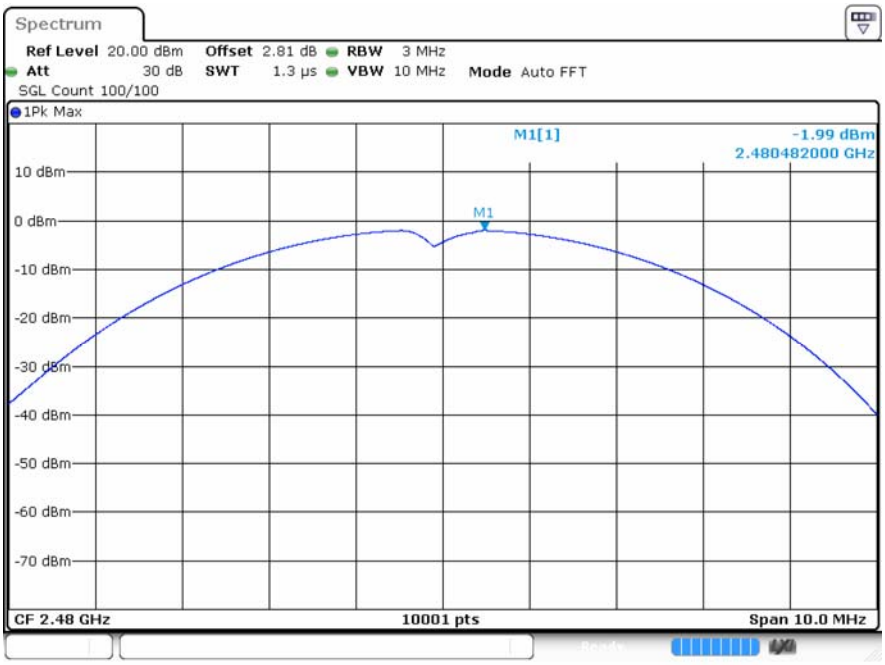
2 Maximum Conducted Peak Output Power

2.1 Test Result

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-1.77	21	Pass
	MCH	-1.8	21	Pass
	HCH	-1.99	21	Pass

2.2 Test Graphs

Test Graphs	
GFSK/LCH	
GFSK/MCH	

GFSK/HCH	

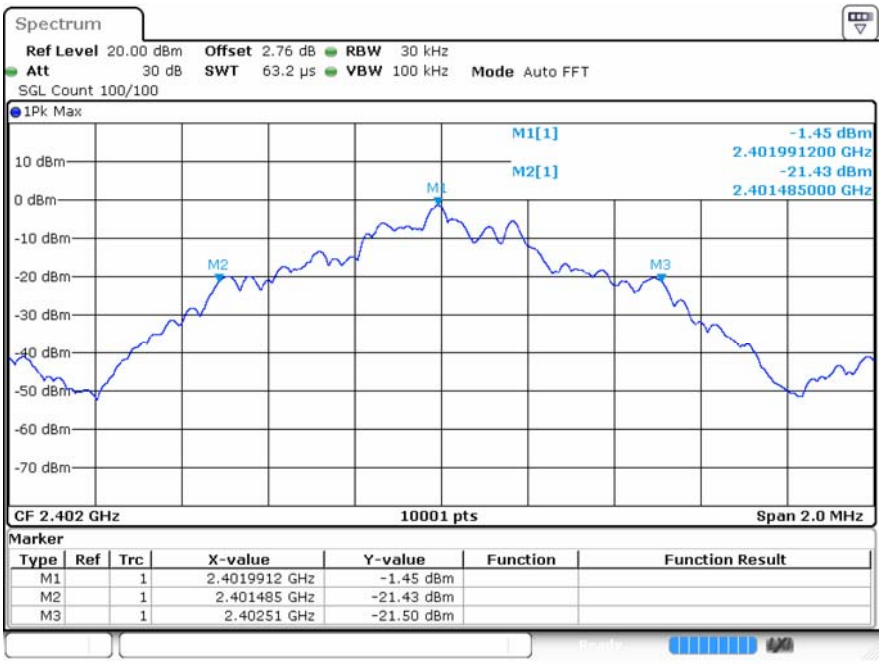
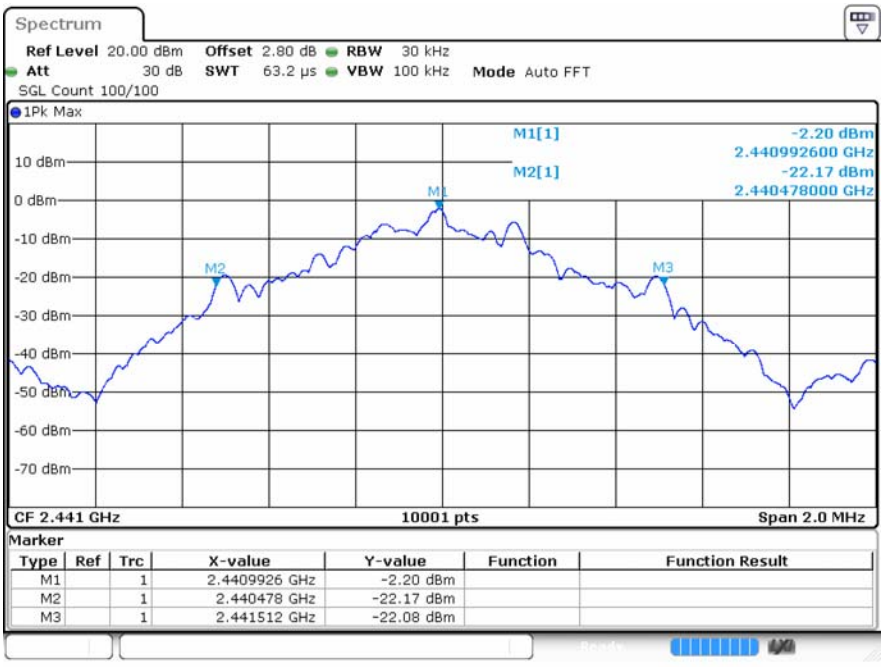
Spectrum
Ref Level 20.00 dBm Offset 2.81 dB RBW 3 MHz
Att 30 dB SWT 1.3 µs VBW 10 MHz Mode Auto FFT
SGL Count 100/100
1Pk Max
M1[1] -1.99 dBm
2.480482000 GHz
M1
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
CF 2.48 GHz
10001 pts
Span 10.0 MHz

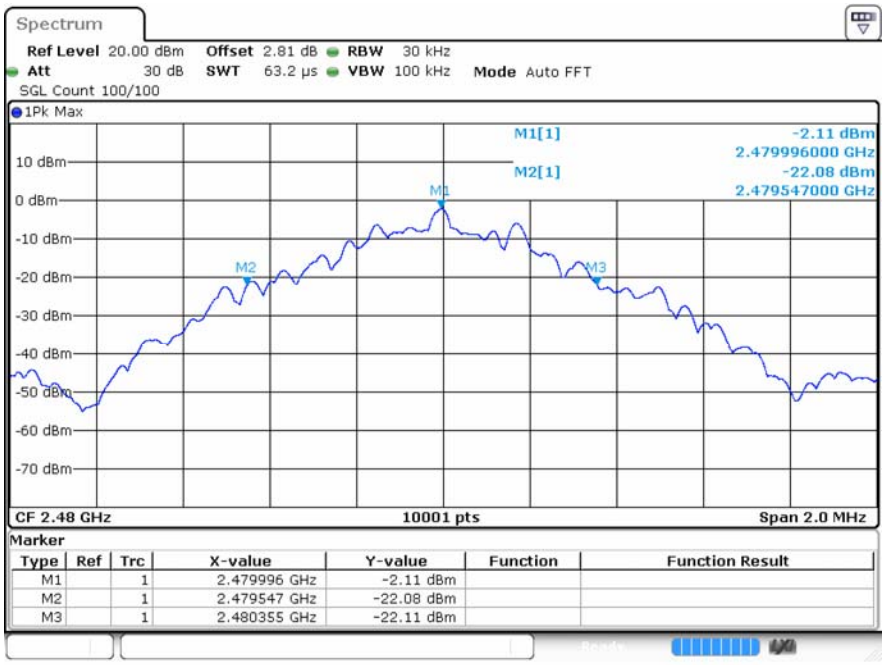
3 20dB Bandwidth

3.1 Test Result

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	1.025	Not Specified	Pass
	MCH	1.034	Not Specified	Pass
	HCH	0.808	Not Specified	Pass

3.2 Test Graphs

Test Graphs	
GFSK/LCH	
GFSK/MCH	

GFSK/HCH	

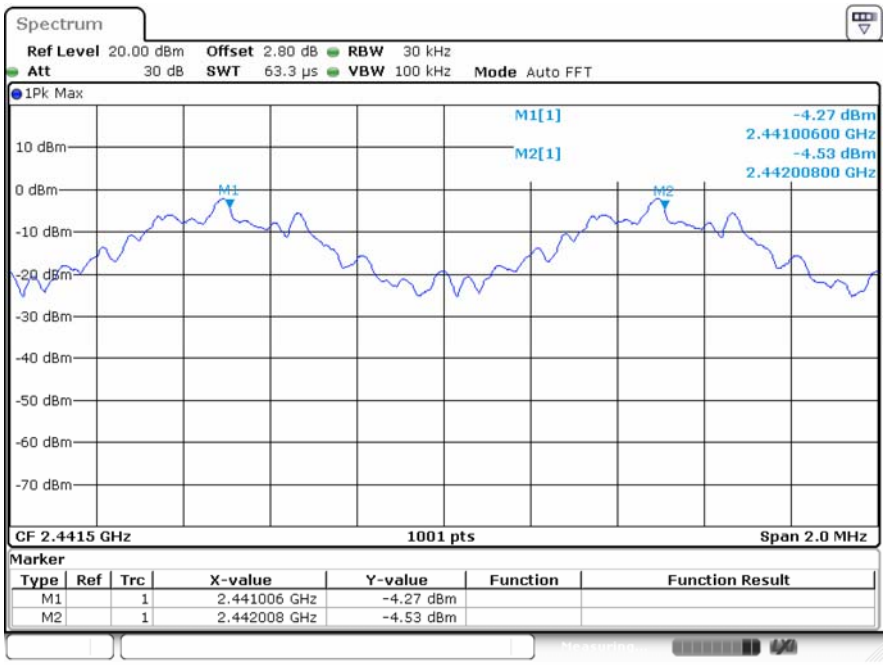
Spectrum
Ref Level 20.00 dBm Offset 2.81 dB RBW 30 kHz
Att 30 dB SWT 63.2 µs VBW 100 kHz Mode Auto FFT
SGL Count 100/100
1Pk Max
M1[1] -2.11 dBm
2.479996000 GHz
M2[1] -22.08 dBm
2.479547000 GHz
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
CF 2.48 GHz
10001 pts
Span 2.0 MHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 2.479996 GHz -2.11 dBm
M2 1 2.479547 GHz -22.08 dBm
M3 1 2.480355 GHz -22.11 dBm

4 Carrier Frequency Separation

4.1 Test Result

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	1.002	0.689	Pass

4.2 Test Graphs

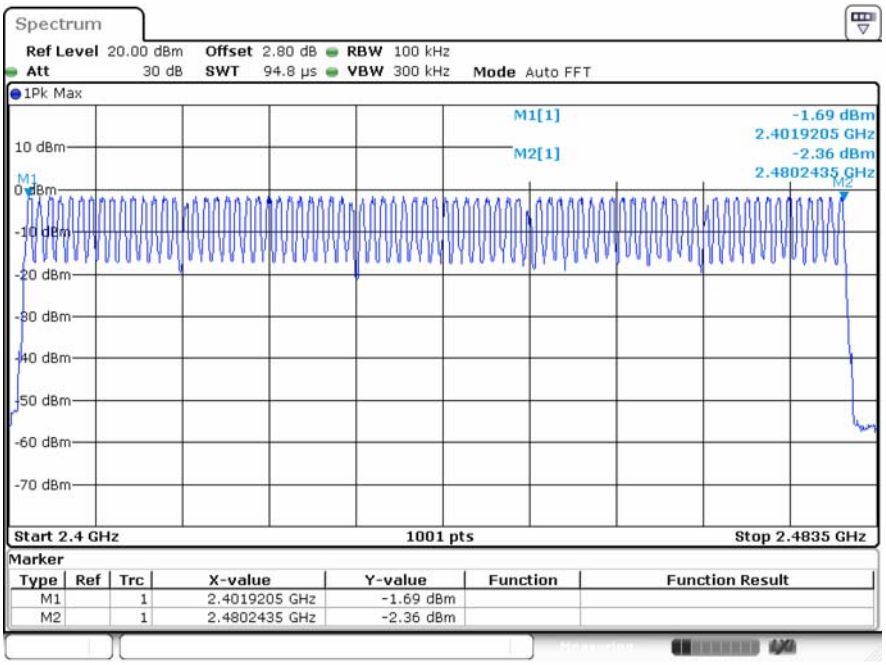
Test Graphs	
GFSK/MCH	

5 Hopping Channel Number

5.1 Test Result

Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	>=15	PASS

5.2 Test Graphs

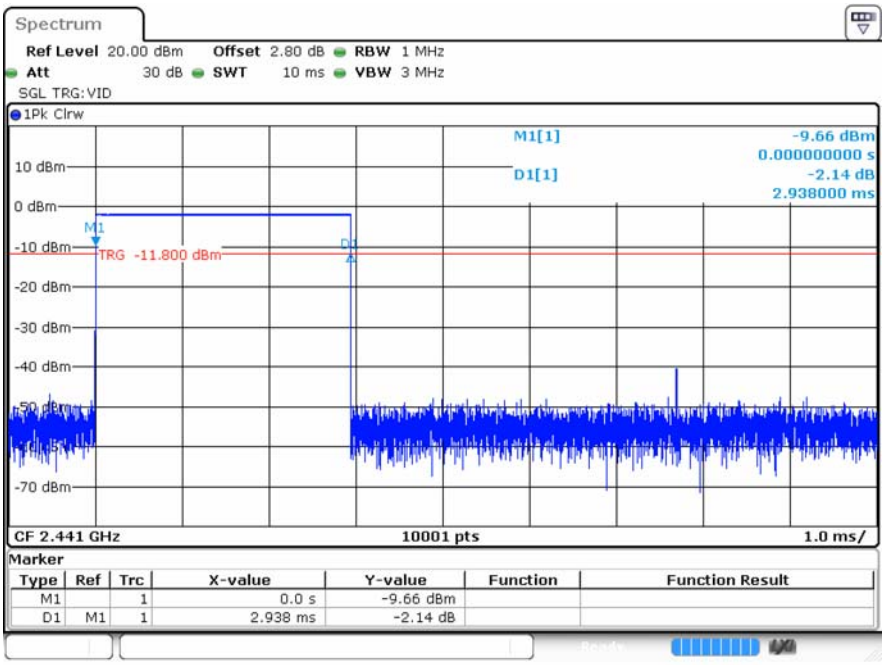
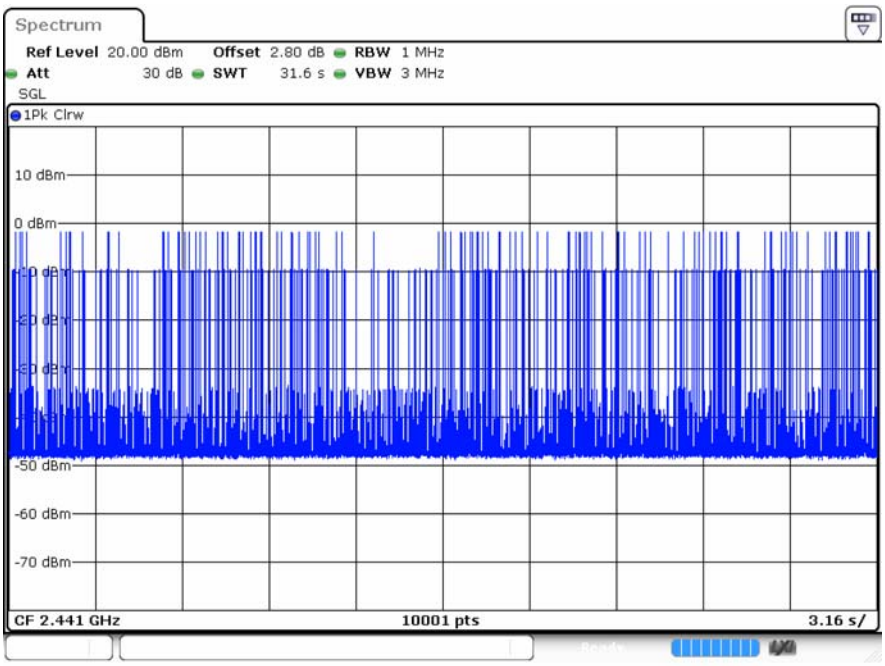
Test Graphs	
GFSK/Hop	

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	2.938	112	329.056	0.4	Pass

6.2 Test Graphs

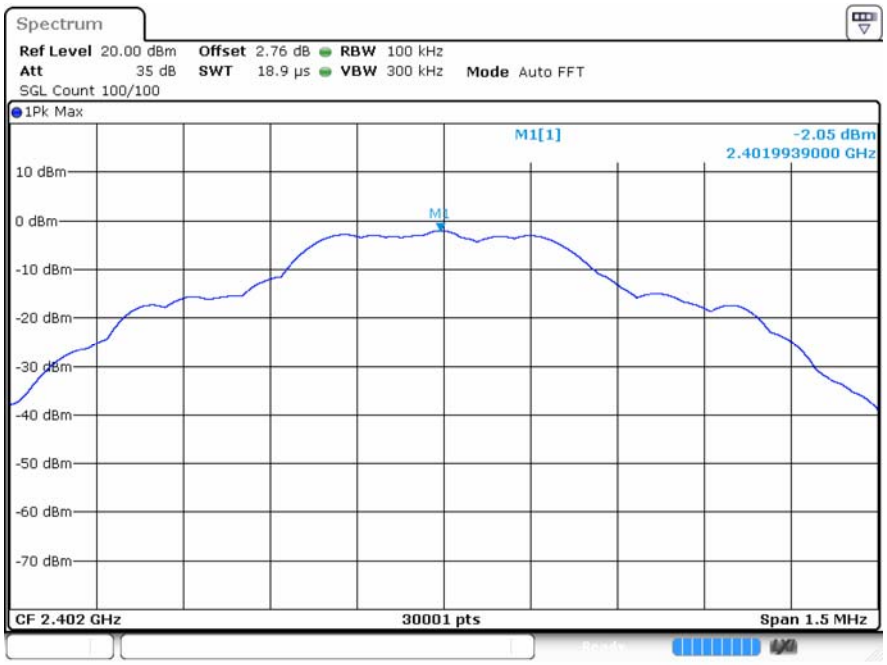
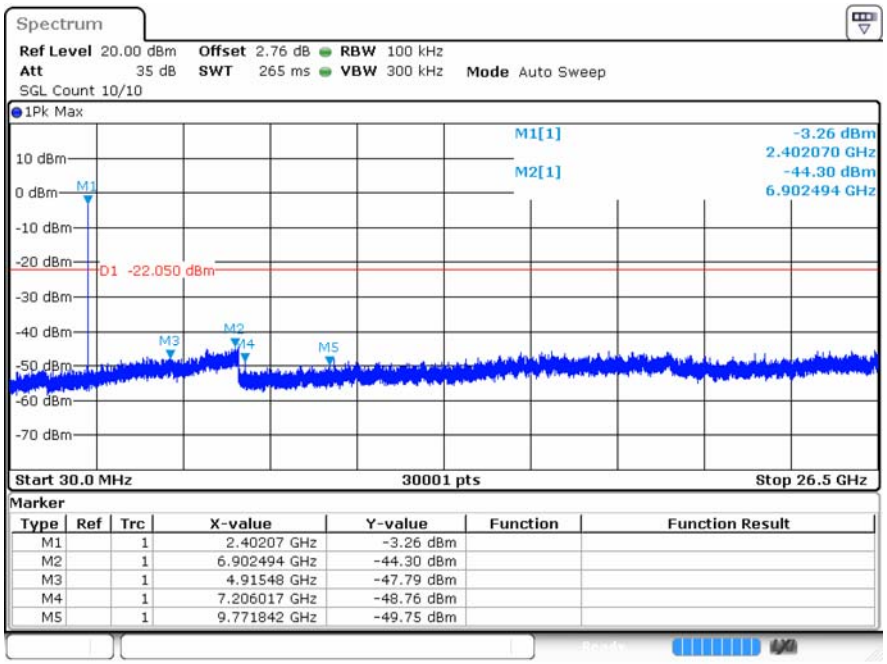
Test Graphs	
GFSK_DH5/MCH	 

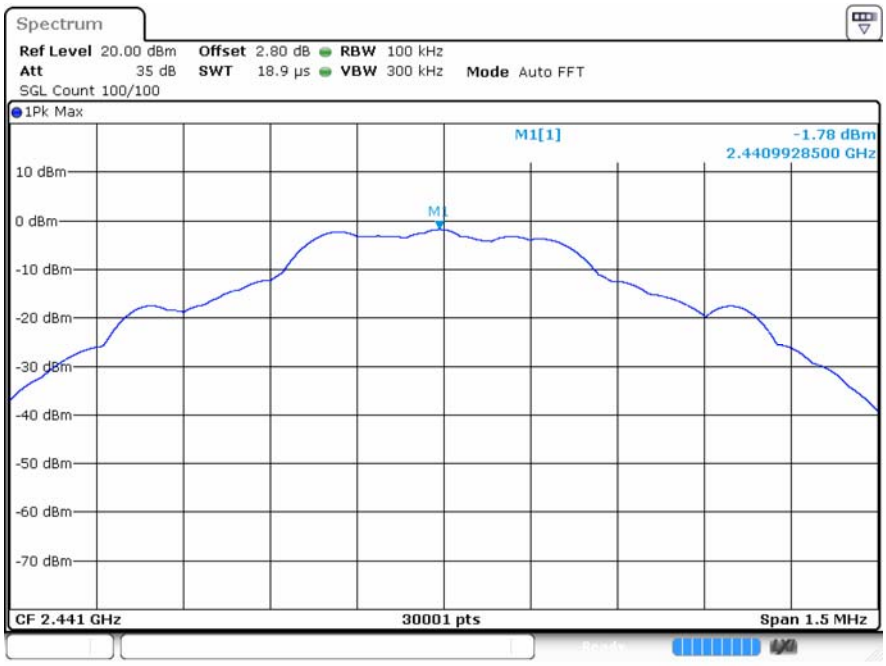
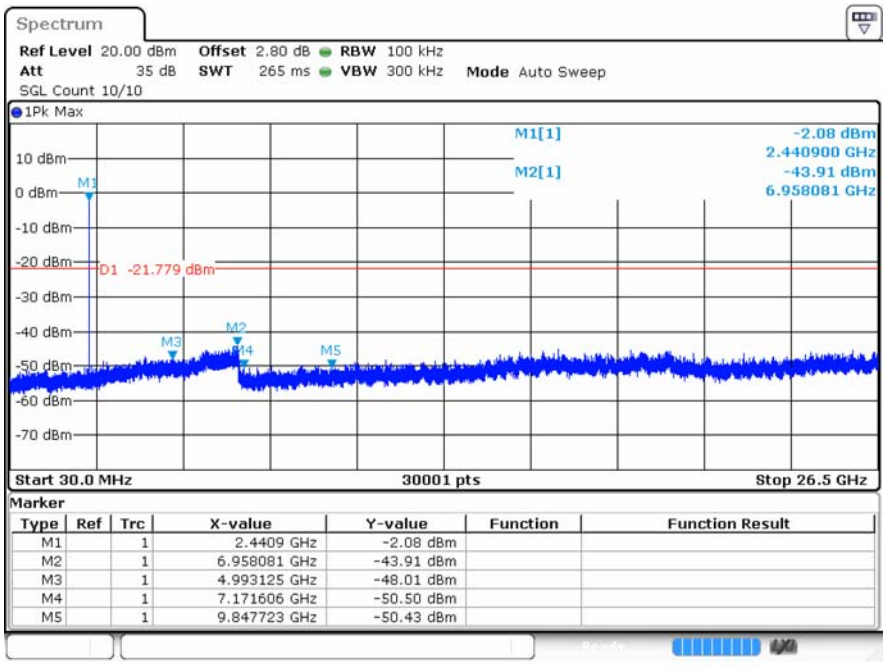
7 RF Conducted Spurious Emissions

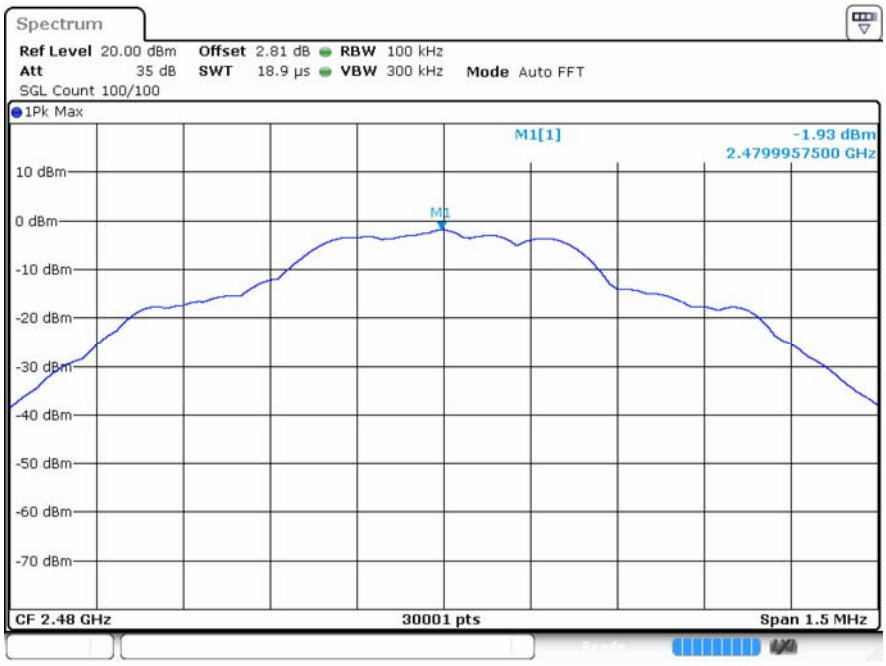
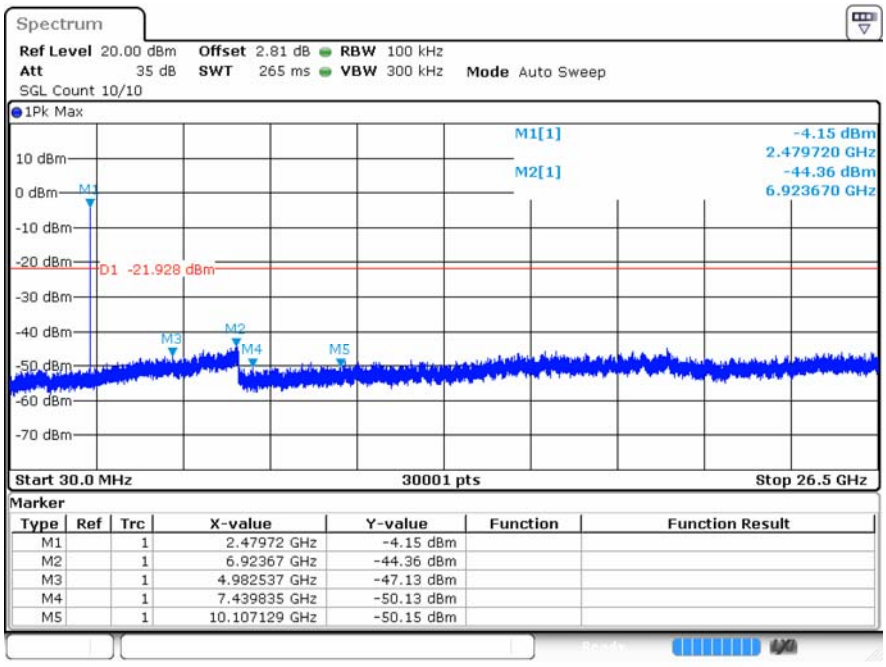
7.1 Test Result

Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-42.24	-20	Pass
	MCH	-42.12	-20	Pass
	HCH	-42.42	-20	Pass

7.2 Test Graphs

GFSK_LCH_Graphs	
Pref	
Puw	

GFSK_MCH_Graphs	
Pref	
Puw	

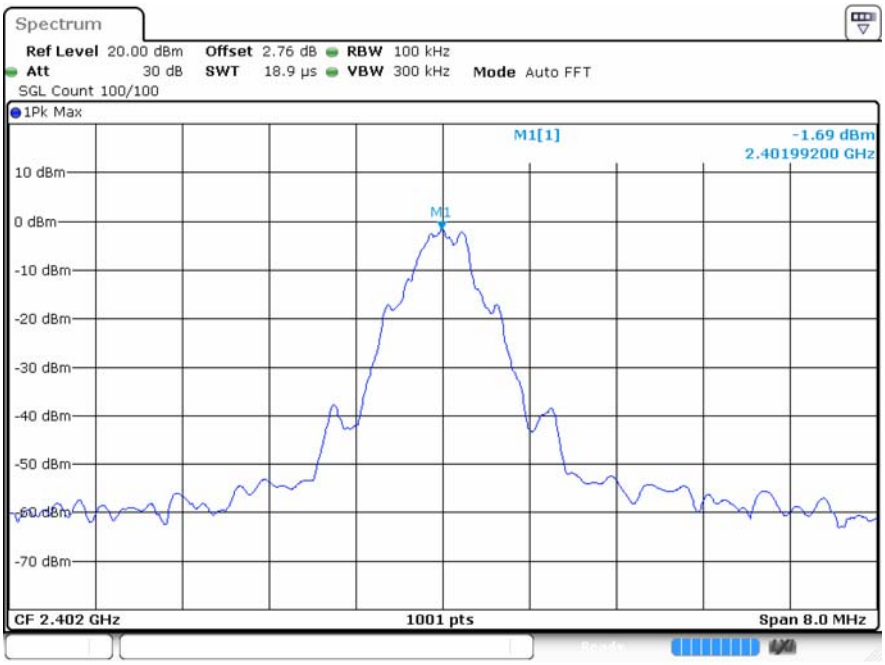
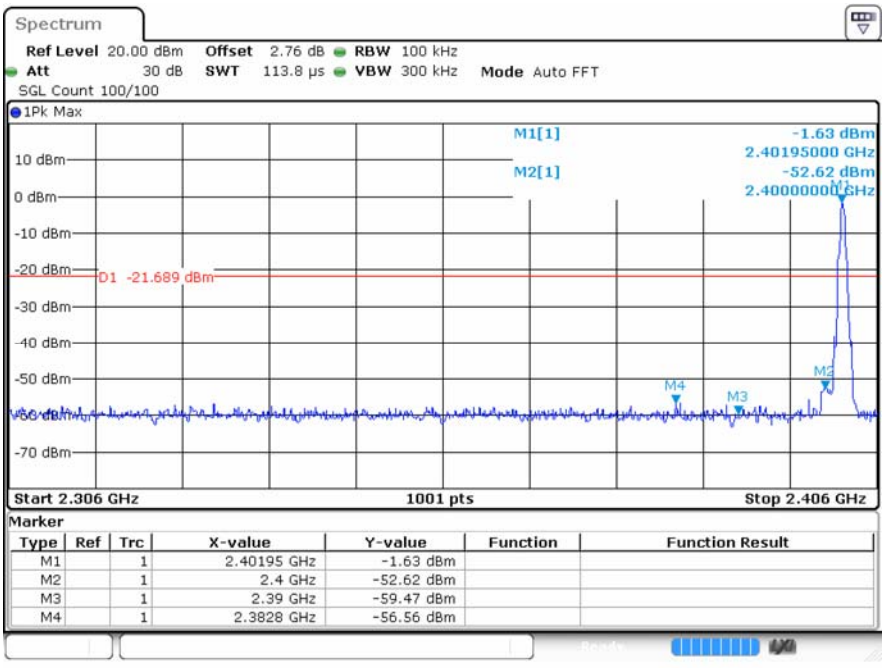
GFSK_HCH_Graphs	
Pref	
Puw	 Marker Type | Ref | Trc | X-value | Y-value | Function | Function Result M1 | 1 | 2.47972 GHz | -4.15 dBm M2 | 1 | 6.92367 GHz | -44.36 dBm M3 | 1 | 4.982537 GHz | -47.13 dBm M4 | 1 | 7.439835 GHz | -50.13 dBm M5 | 1 | 10.107129 GHz | -50.15 dBm

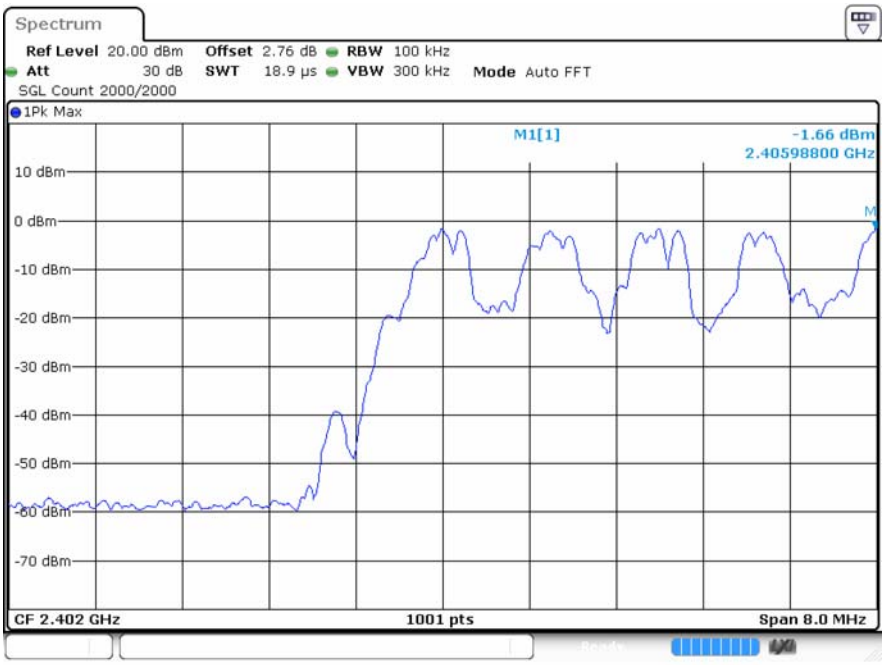
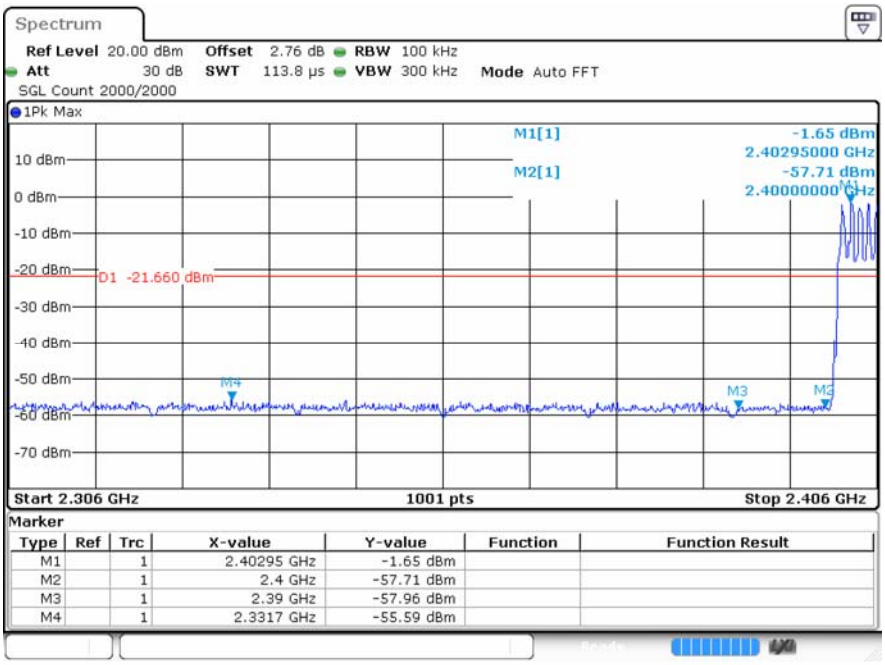
8 Band-edge for RF Conducted Emissions

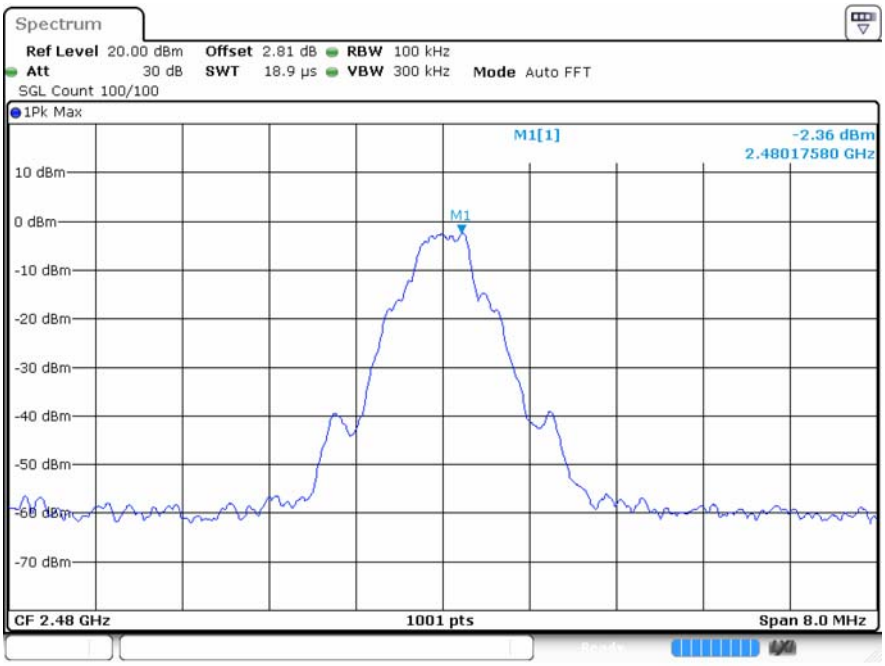
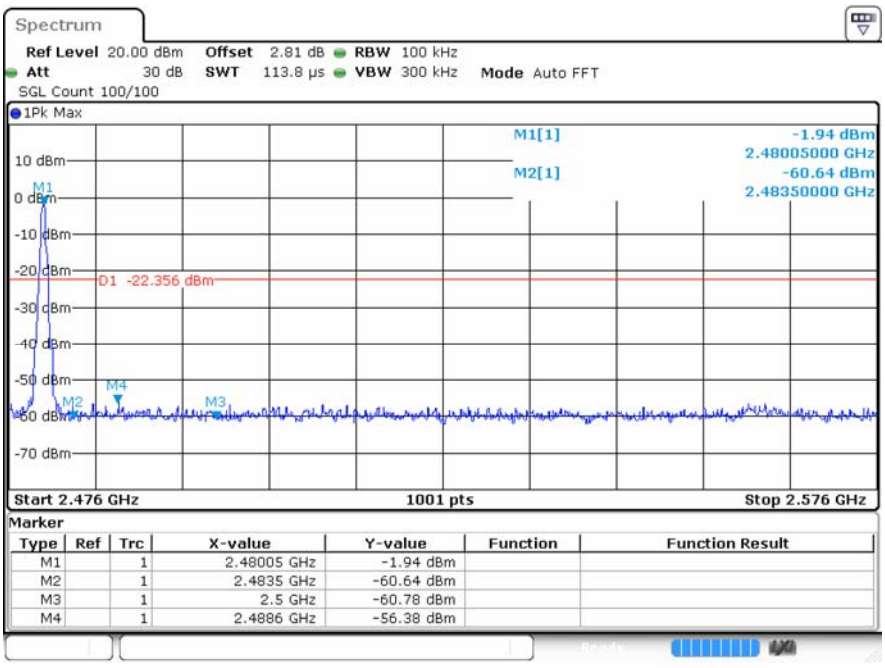
8.1 Test Result

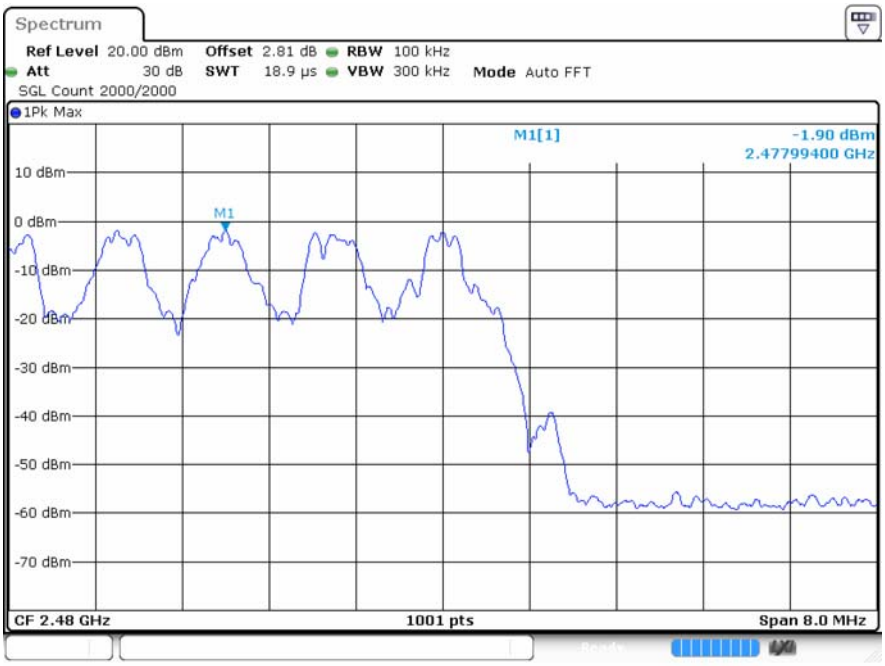
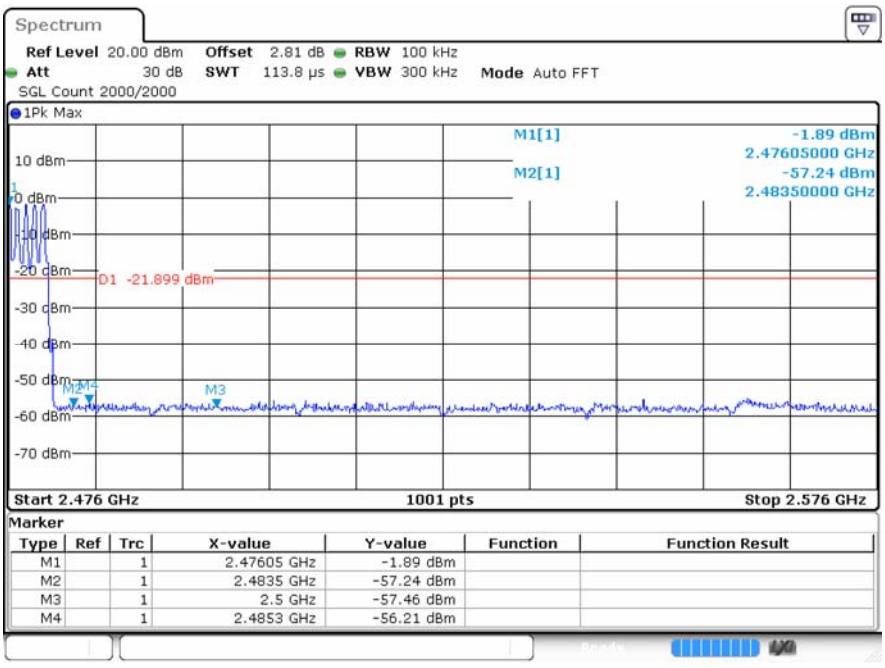
Mode	Channel	Carrier Frequency [MHz]	Frequency Hopping	Max Spurious Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	2402	Off	-54.86	-20	Pass
			On	-53.93	-20	Pass
	HCH	2480	Off	-54.02	-20	Pass
			On	-54.31	-20	Pass

8.2 Test Graphs

Test Graphs	
Pref	
GFSK/LCH/No Hop	

Ref	
GFSK/LCH/Hop	 Marker Type Ref Trc X-value Y-value Function Function Result M1 1 2.40295 GHz -1.65 dBm M2 1 2.4 GHz -57.71 dBm M3 1 2.39 GHz -57.96 dBm M4 1 2.3317 GHz -55.59 dBm

Ref	
GFSK/HCH/No Hop	

Ref.	
GFSK/HCH/Hop	

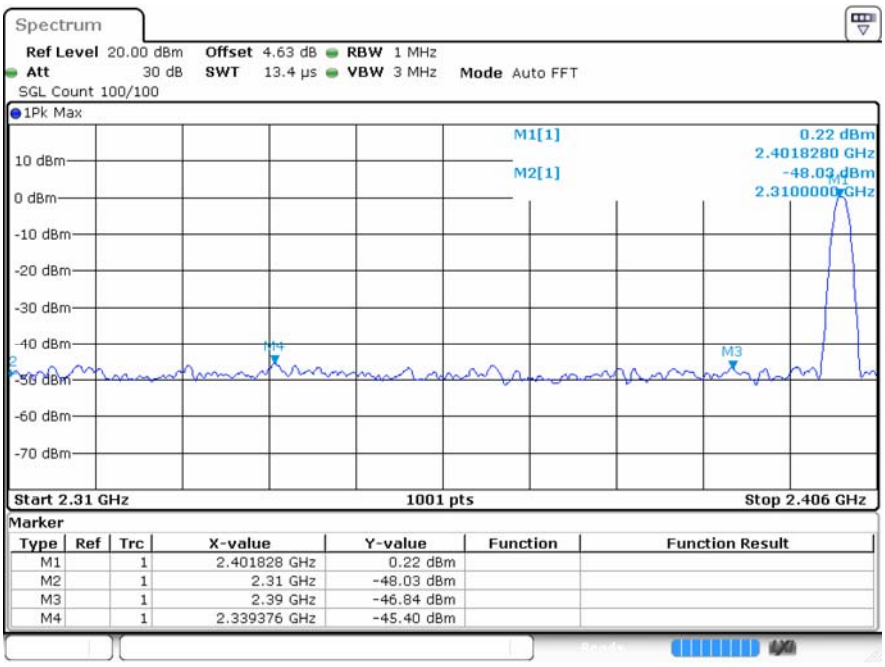
9 Restrict-band band-edge measurements

9.1 Test Result

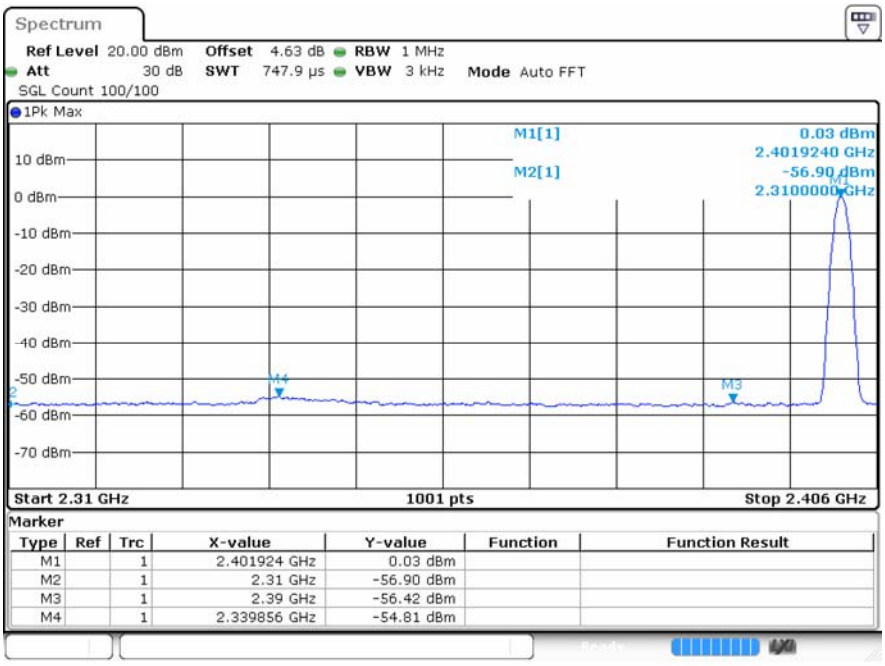
Test Mode	Hopping	Freq.	Power [dBm]	Gain	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-48.03	2	49.23	PEAK	74	Pass
	Off	2310.0	-56.89	2	40.37	AV	54	Pass
	Off	2339.376	-45.4	2	51.86	PEAK	74	Pass
	Off	2339.856	-54.8	2	42.46	AV	54	Pass
	Off	2390.0	-46.84	2	50.42	PEAK	74	Pass
	Off	2390.0	-56.42	2	40.84	AV	54	Pass
	Off	2483.5	-48.86	2	48.4	PEAK	74	Pass
	Off	2483.5	-56.35	2	40.91	AV	54	Pass
	Off	2495.896	-46.11	2	51.15	PEAK	74	Pass
	Off	2484.448	-56.06	2	41.2	AV	54	Pass
	Off	2500.0	-50.48	2	46.78	PEAK	74	Pass
	Off	2500.0	-56.52	2	40.74	AV	54	Pass

9.2 Test Graphs

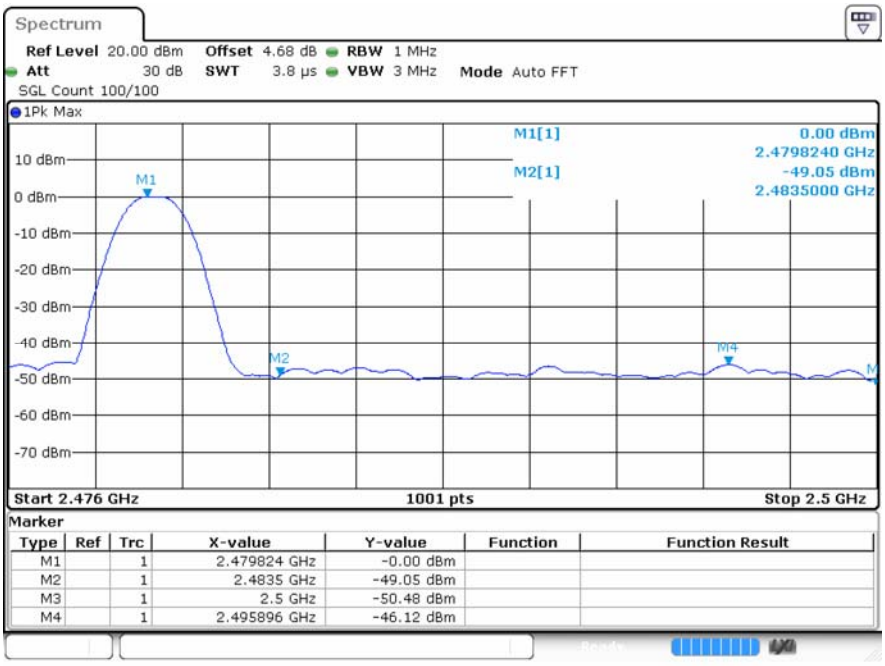
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (Low Channel)



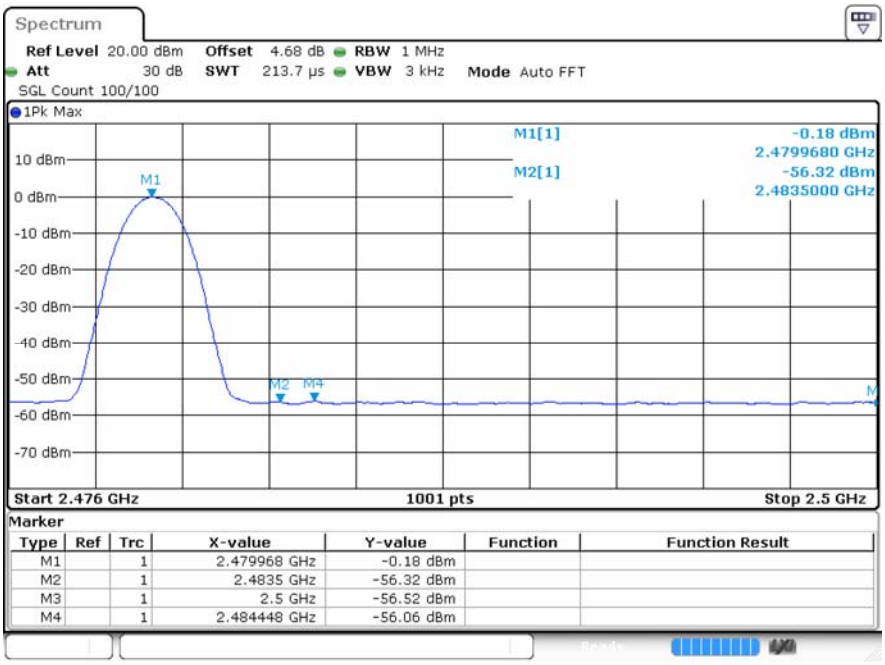
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



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