Appendix A: Test results

1. RF Output Power

1.1 Test Result and Data

BT Maximum Output Power				
Mode	Test Frequency (MHz)	Packet Type	Power (dBm)	Result
GFSK	2402	DH5	6.43	Pass
GFSK	2441	DH5	6.33	Pass
GFSK	2480	DH5	4.76	Pass
DQPSK	2402	2DH5	7.61	Pass
DQPSK	2441	2DH5	7.54	Pass
DQPSK	2480	2DH5	6.08	Pass
8DPSK	2402	3DH5	8.71	Pass
8DPSK	2441	3DH5	7.80	Pass
8DPSK	2480	3DH5	6.57	Pass

The maximum EIRP = 8.71dBm+3.1dBi = 11.81dBm = 0.015W which is lower than the limit of 4W listed in RSS-247.

GFSK,2402MHz,DH5

GFSK,2441MHz,DH5

GFSK,2480MHz,DH5

DQPSK,2402MHz,2DH5

DQPSK,2441MHz,2DH5

DQPSK,2480MHz,2DH5

TEST REPORT

8DPSK,2402MHz,3DH5	8DPSK,2441MHz,3DH5
8DPSK,2480MHz,3DH5	

2. 20dB Down Bandwidth

2.1 Test Result and Data

BT Occupied 20dB Bandwidth				
Mode	Test Frequency (MHz)	Packet Type	20dB Bandwidth (kHz)	Result
GFSK	2402	DH5	957.9	Pass
GFSK	2441	DH5	963.0	Pass
GFSK	2480	DH5	987.8	Pass
DQPSK	2402	2DH5	1303.2	Pass
DQPSK	2441	2DH5	1310.5	Pass
DQPSK	2480	2DH5	1321.6	Pass
8DPSK	2402	3DH5	1279.9	Pass
8DPSK	2441	3DH5	1321.3	Pass
8DPSK	2480	3DH5	1280.7	Pass

GFSK,2402MHz,DH5

GFSK,2441MHz,DH5

GFSK,2480MHz,DH5

DQPSK,2402MHz,2DH5

DQPSK,2441MHz,2DH5

DQPSK,2480MHz,2DH5

8DPSK,2402MHz,3DH5	8DPSK,2441MHz,3DH5
8DPSK,2480MHz,3DH5	

3. 99% BandWidth

3.1 Test Result and Data

BT 99% Occupied Bandwidth				
Mode	Test Frequency (MHz)	Packet Type	99% Occupied Bandwidth (kHz)	Result
GFSK	2402	DH5	886.45	Pass
GFSK	2441	DH5	906.01	Pass
GFSK	2480	DH5	886.92	Pass
DQPSK	2402	2DH5	1189.15	Pass
DQPSK	2441	2DH5	1184.15	Pass
DQPSK	2480	2DH5	1195.14	Pass
8DPSK	2402	3DH5	1174.99	Pass
8DPSK	2441	3DH5	1189.96	Pass
8DPSK	2480	3DH5	1182.16	Pass

GFSK,2402MHz,DH5

GFSK,2441MHz,DH5

GFSK,2480MHz,DH5

DQPSK,2402MHz,2DH5

DQPSK,2441MHz,2DH5

DQPSK,2480MHz,2DH5

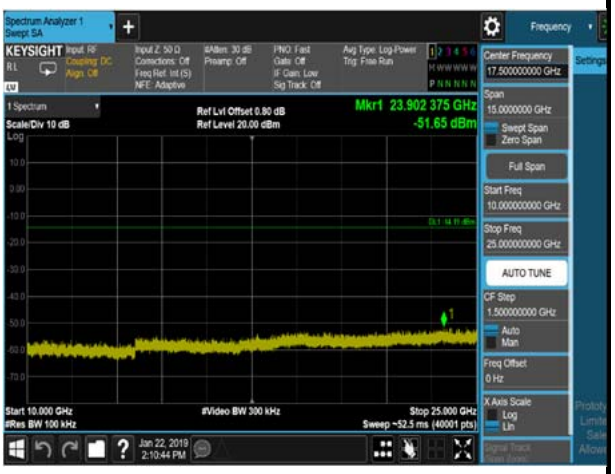
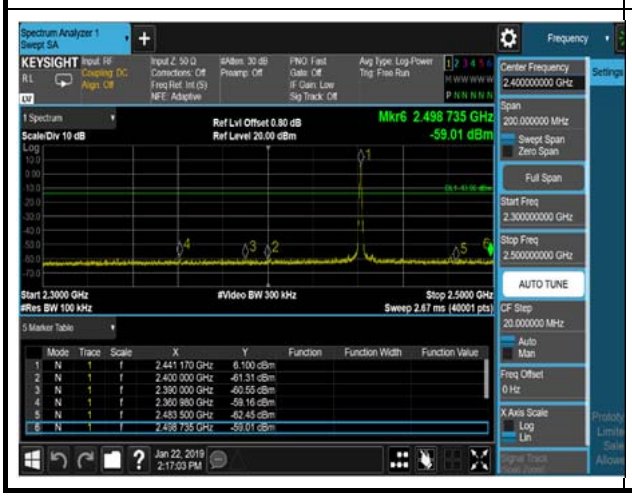
8DPSK,2402MHz,3DH5	8DPSK,2441MHz,3DH5
8DPSK,2480MHz,3DH5	

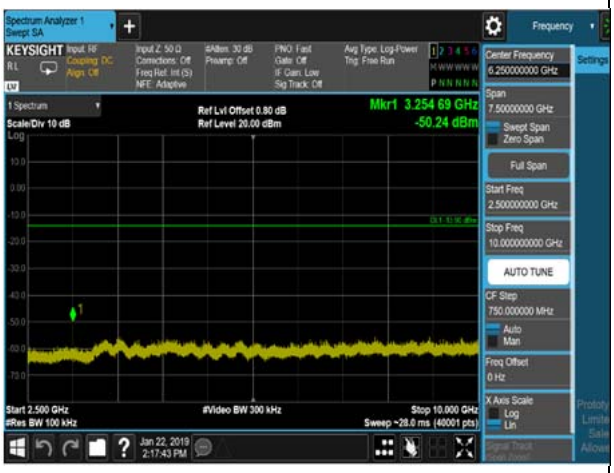
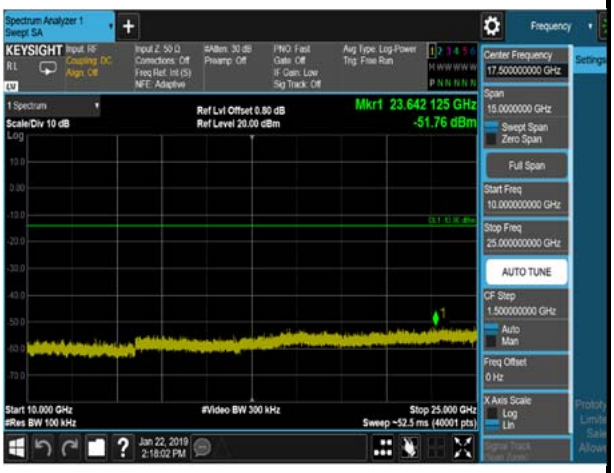
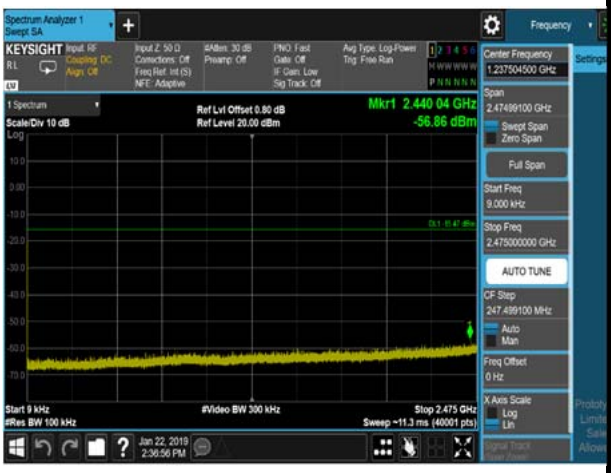
4. Transmitter Spurious Emission

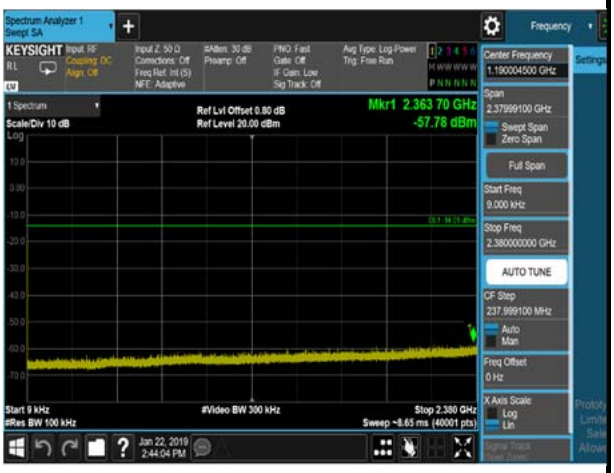
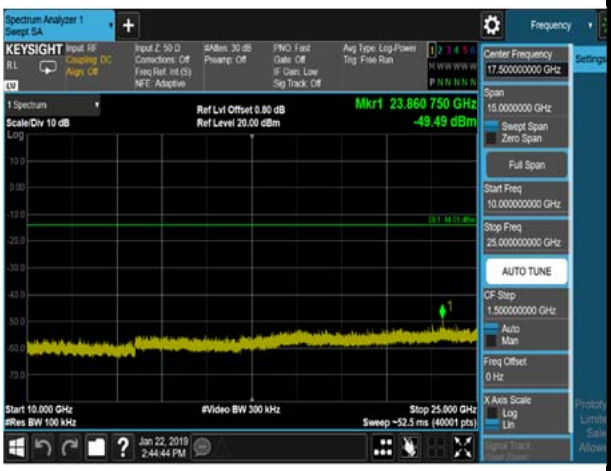
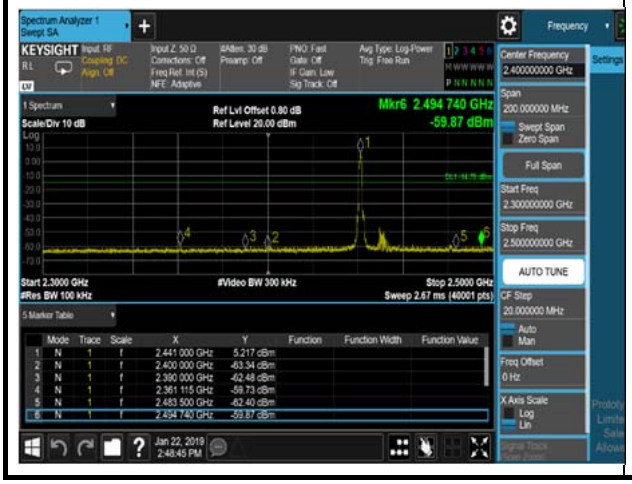
4.1 Test Result and Data

BT Transmitter Spurious Emission					
Mode	Test Frequency (MHz)	Packet Type	Frequency Range	Power (dBm)	Result
GFSK	2402	DH5	0.009MHz~2380MHz	-58.61	Pass
GFSK	2402	DH5	10000MHz~25000MHz	-51.66	Pass
GFSK	2402	DH5	2410MHz~10000MHz	-49.19	Pass
GFSK	2402	DH5	Band Edge	-53.85	Pass
GFSK	2441	DH5	0.009MHz~2300MHz	-58.30	Pass
GFSK	2441	DH5	10000MHz~25000MHz	-51.76	Pass
GFSK	2441	DH5	2500MHz~10000MHz	-50.24	Pass
GFSK	2441	DH5	Band Edge	-59.01	Pass
GFSK	2480	DH5	0.009MHz~2475MHz	-56.86	Pass
GFSK	2480	DH5	10000MHz~25000MHz	-51.90	Pass
GFSK	2480	DH5	2505MHz~10000MHz	-50.50	Pass
GFSK	2480	DH5	Band Edge	-58.78	Pass
DQPSK	2402	2DH5	0.009MHz~2380MHz	-57.78	Pass
DQPSK	2402	2DH5	10000MHz~25000MHz	-49.49	Pass
DQPSK	2402	2DH5	2410MHz~10000MHz	-49.10	Pass
DQPSK	2402	2DH5	Band Edge	-52.42	Pass
DQPSK	2441	2DH5	0.009MHz~2300MHz	-59.06	Pass
DQPSK	2441	2DH5	10000MHz~25000MHz	-51.20	Pass
DQPSK	2441	2DH5	2500MHz~10000MHz	-49.59	Pass
DQPSK	2441	2DH5	Band Edge	-59.73	Pass
DQPSK	2480	2DH5	0.009MHz~2475MHz	-56.49	Pass
DQPSK	2480	2DH5	10000MHz~25000MHz	-51.27	Pass
DQPSK	2480	2DH5	2505MHz~10000MHz	-50.35	Pass
DQPSK	2480	2DH5	Band Edge	-58.47	Pass

8DPSK	2402	3DH5	0.009MHz~2380MHz	-58.34	Pass
8DPSK	2402	3DH5	10000MHz~25000MHz	-51.33	Pass
8DPSK	2402	3DH5	2410MHz~10000MHz	-49.40	Pass
8DPSK	2402	3DH5	Band Edge	-52.43	Pass
8DPSK	2441	3DH5	0.009MHz~2300MHz	-53.84	Pass
8DPSK	2441	3DH5	10000MHz~25000MHz	-51.77	Pass
8DPSK	2441	3DH5	2500MHz~10000MHz	-50.49	Pass
8DPSK	2441	3DH5	Band Edge	-59.87	Pass
8DPSK	2480	3DH5	0.009MHz~2475MHz	-57.74	Pass
8DPSK	2480	3DH5	10000MHz~25000MHz	-51.18	Pass
8DPSK	2480	3DH5	2505MHz~10000MHz	-50.83	Pass
8DPSK	2480	3DH5	Band Edge	-58.85	Pass

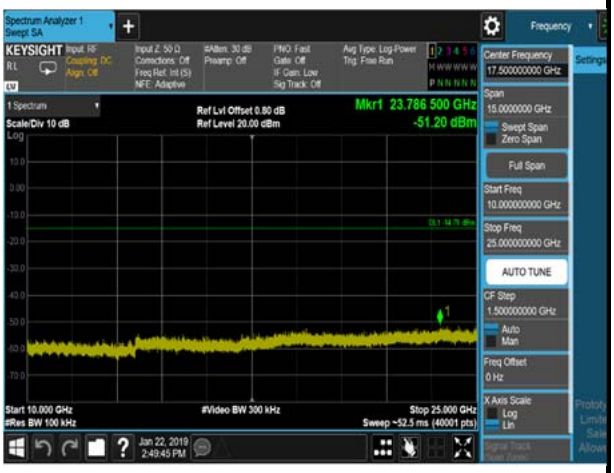
GFSK,2402MHz,DH5,Plot 1,Band Edge	GFSK,2402MHz,DH5,Plot 2,0.009MHz~2380 MHz
GFSK,2402MHz,DH5,Plot 3,2410MHz~10000 MHz	GFSK,2402MHz,DH5,Plot 4,10000MHz~2500 0MHz
	
GFSK,2441MHz,DH5,Plot 1,Band Edge	GFSK,2441MHz,DH5,Plot 2,0.009MHz~2300 MHz
	

GFSK,2441MHz,DH5,Plot 3,2500MHz~10000 MHz	GFSK,2441MHz,DH5,Plot 4,10000MHz~25000MHz
	
GFSK,2480MHz,DH5,Plot 1,Band Edge	GFSK,2480MHz,DH5,Plot 2,0.009MHz~2475 MHz
	
GFSK,2480MHz,DH5,Plot 3,2505MHz~10000 MHz	GFSK,2480MHz,DH5,Plot 4,10000MHz~25000MHz

DQPSK,2402MHz,2DH5,Plot 1,Band Edge	DQPSK,2402MHz,2DH5,Plot 2,0.009MHz~2380MHz
	
DQPSK,2402MHz,2DH5,Plot 3,2410MHz~10000MHz	DQPSK,2402MHz,2DH5,Plot 4,10000MHz~25000MHz
	
DQPSK,2441MHz,2DH5,Plot 1,Band Edge	DQPSK,2441MHz,2DH5,Plot 2,0.009MHz~2300MHz
	

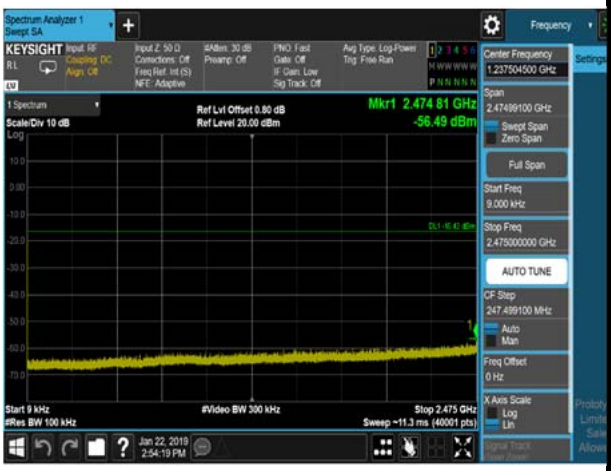
DQPSK,2441MHz,2DH5,Plot 3,2500MHz~10000MHz

DQPSK,2441MHz,2DH5,Plot 4,10000MHz~25000MHz



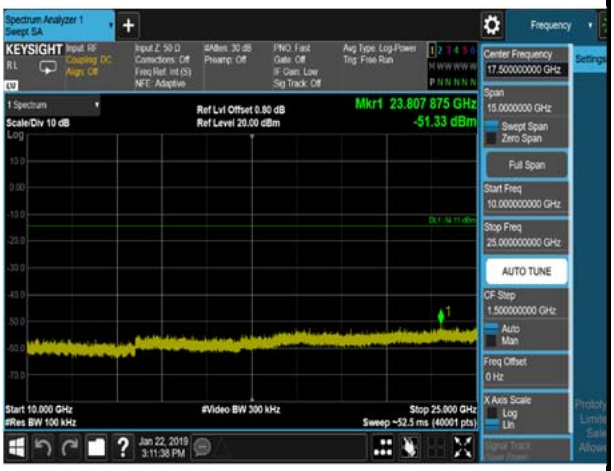
DQPSK,2480MHz,2DH5,Plot 1,Band Edge

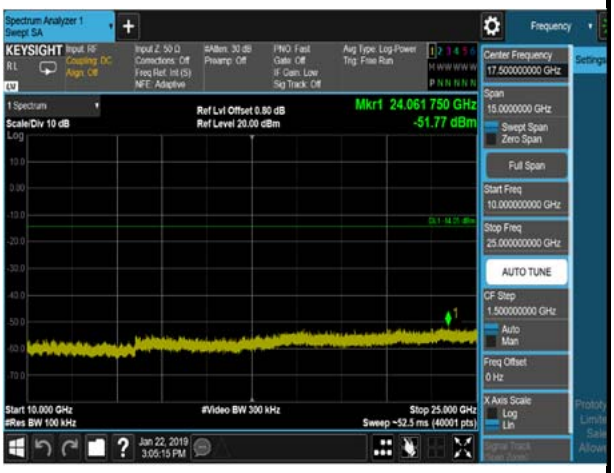
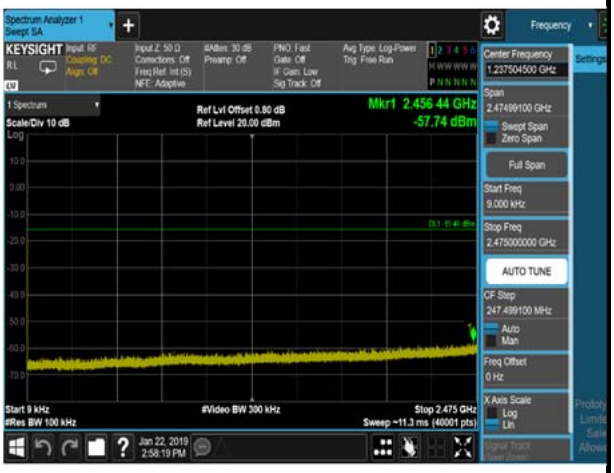
DQPSK,2480MHz,2DH5,Plot 2,0.009MHz~2475MHz



DQPSK,2480MHz,2DH5,Plot 3,2505MHz~10000MHz

DQPSK,2480MHz,2DH5,Plot 4,10000MHz~25000MHz

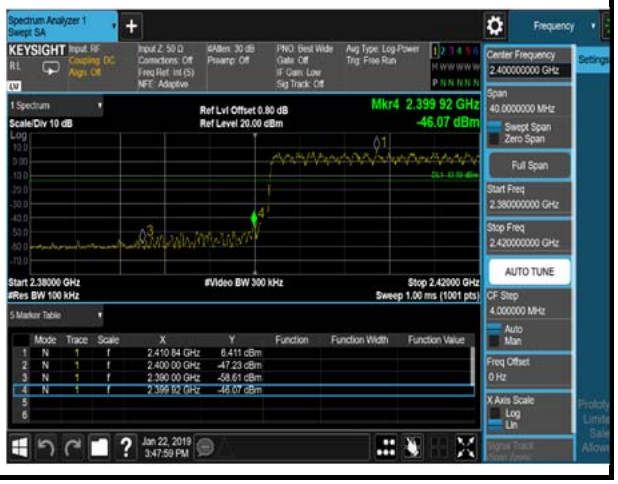
8DPSK,2402MHz,3DH5,Plot 1,Band Edge	8DPSK,2402MHz,3DH5,Plot 2,0.009MHz~2380MHz
8DPSK,2402MHz,3DH5,Plot 3,2410MHz~10000MHz	8DPSK,2402MHz,3DH5,Plot 4,10000MHz~25000MHz
	
8DPSK,2441MHz,3DH5,Plot 1,Band Edge	8DPSK,2441MHz,3DH5,Plot 2,0.009MHz~2300MHz

8DPSK,2441MHz,3DH5,Plot 3,2500MHz~10000MHz	8DPSK,2441MHz,3DH5,Plot 4,10000MHz~25000MHz
	
8DPSK,2480MHz,3DH5,Plot 1,Band Edge	8DPSK,2480MHz,3DH5,Plot 2,0.009MHz~2475MHz
	
8DPSK,2480MHz,3DH5,Plot 3,2505MHz~10000MHz	8DPSK,2480MHz,3DH5,Plot 4,10000MHz~25000MHz

5. Frequency Band Edge

5.1 Test Result and Data

BT Frequency Band Edges-Conducted						
Mode	Test Range (MHz)	Packet Type	Hopping Mode	Band Edge (dBm)	Limit	Result
GFSK	2380~2420	DH5	Hopping On	-52.77	-13.568	Pass
GFSK	2463.5~2503.5	DH5	Hopping On	-56.79	-15.033	Pass
DQPSK	2380~2420	2DH5	Hopping On	-53.42	-13.535	Pass
DQPSK	2463.5~2503.5	2DH5	Hopping On	-57.18	-15.03	Pass
8DPSK	2380~2420	3DH5	Hopping On	-46.07	-13.589	Pass
8DPSK	2463.5~2503.5	3DH5	Hopping On	-57.69	-14.956	Pass

GFSK,Hopping,DH5,Band Edge HighRange	GFSK,Hopping,DH5,Band Edge LowRange
DQPSK,Hopping,2DH5,Band Edge HighRang e	DQPSK,Hopping,2DH5,Band Edge LowRange
8DPSK,Hopping,3DH5,Band Edge HighRang e	8DPSK,Hopping,3DH5,Band Edge LowRange
	

6. Dwell Time

6.1 Test Result and Data

BT Dwell Time						
Mode	Test Frequency (MHz)	Packet Type	Transmission Time (ms)	Number	Dwell Time (ms)	Result
GFSK	2402	DH1	0.360	320	115.20	Pass
GFSK	2402	DH3	1.618	160	258.94	Pass
GFSK	2402	DH5	2.877	110	316.48	Pass

GFSK,2402,DH1,Transmission Time	GFSK,2402,DH1,Transmission Number
GFSK,2402,DH3,Transmission Time	GFSK,2402,DH3,Transmission Number
GFSK,2402,DH5,Transmission Time	GFSK,2402,DH5,Transmission Number

7. Carrier Frequency Separation

7.1 Test Result and Data

BT Carrier Frequency Separation					
Mode	Test Frequency (MHz)	Packet Type	Range	Separation (kHz)	Result
GFSK	Hopping	DH5	2401.5MHz~2403.5MHz	663	Pass
GFSK	Hopping	DH5	2440.5MHz~2442.5MHz	1003	Pass
GFSK	Hopping	DH5	2478.5MHz~2480.5MHz	1009	Pass
DQPSK	Hopping	2DH5	2401.5MHz~2403.5MHz	689	Pass
DQPSK	Hopping	2DH5	2440.5MHz~2442.5MHz	1009	Pass
DQPSK	Hopping	2DH5	2478.5MHz~2480.5MHz	985	Pass
8DPSK	Hopping	3DH5	2401.5MHz~2403.5MHz	685	Pass
8DPSK	Hopping	3DH5	2440.5MHz~2442.5MHz	997	Pass
8DPSK	Hopping	3DH5	2478.5MHz~2480.5MHz	1335	Pass

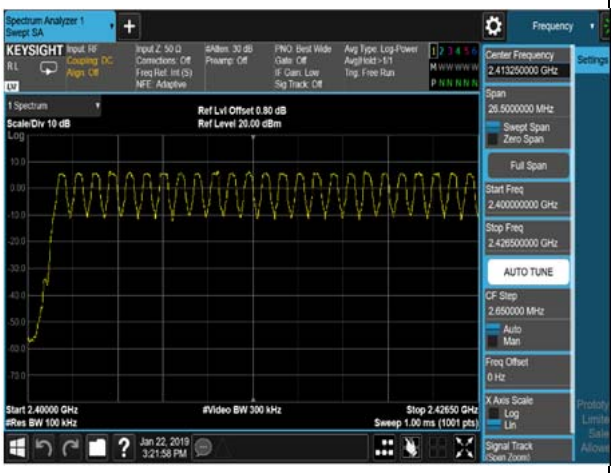
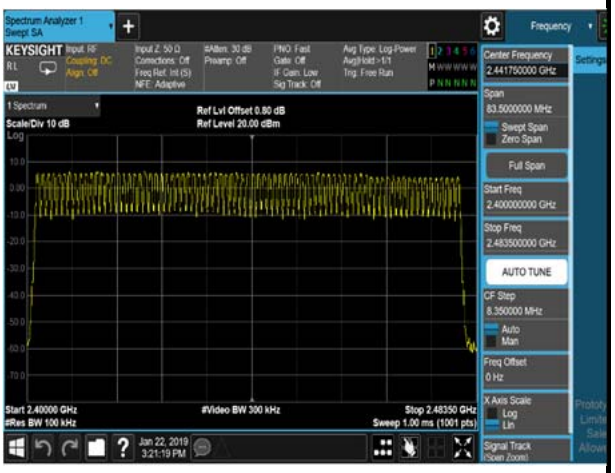
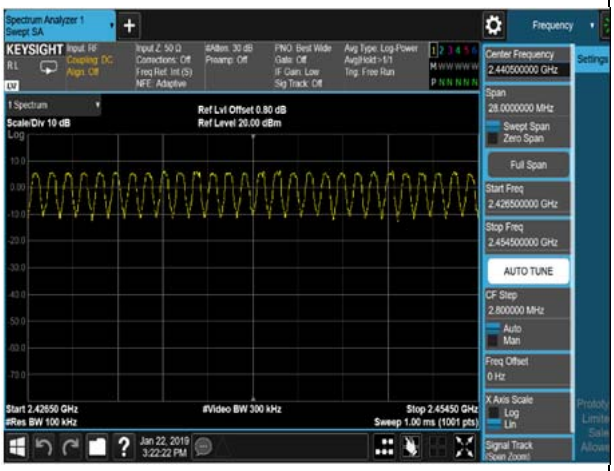
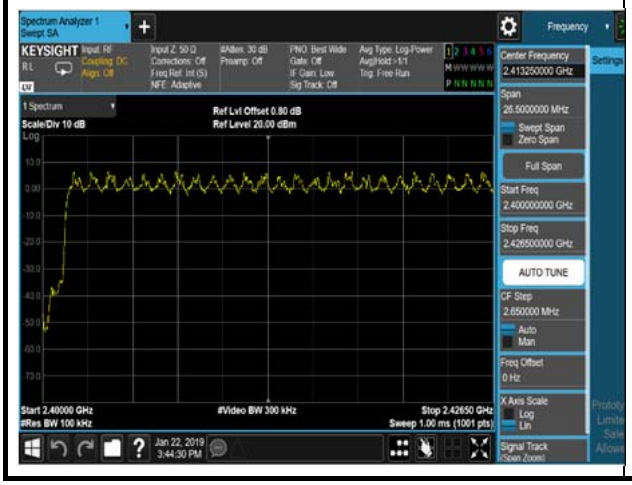
GFSK,Hopping,DH5,2401.5~2403.5MHz	GFSK,Hopping,DH5,2440.5~2442.5MHz
GFSK,Hopping,DH5,2478.5~2480.5MHz	DQPSK,Hopping,2DH5,2401.5~2403.5MHz
DQPSK,Hopping,2DH5,2440.5~2442.5MHz	DQPSK,Hopping,2DH5,2478.5~2480.5MHz
8DPSK,Hopping,3DH5,2401.5~2403.5MHz	8DPSK,Hopping,3DH5,2440.5~2442.5MHz

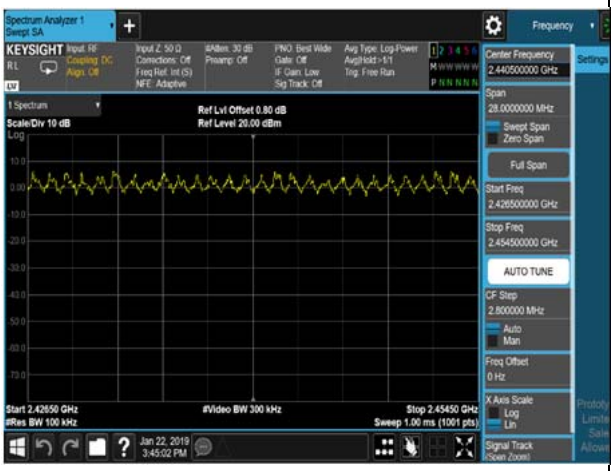
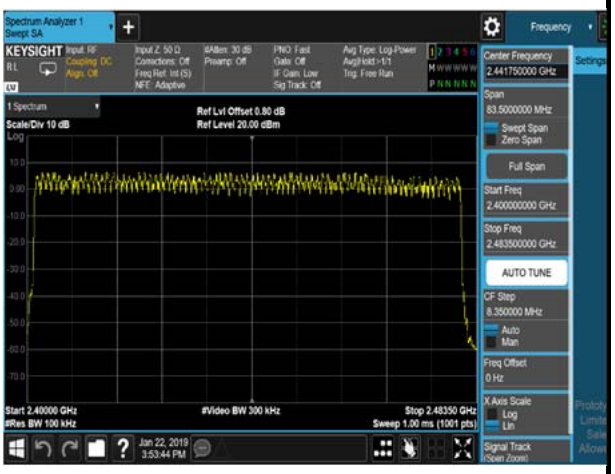
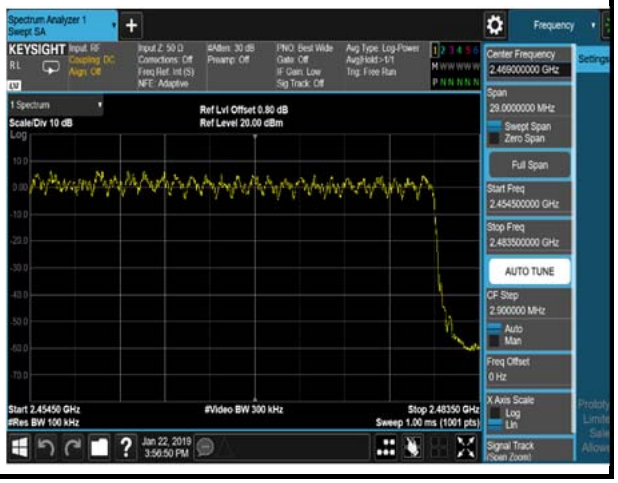
8DPSK,Hopping,3DH5,2478.5~2480.5MHz

8. Hopping Channel Numbers

8.1 Test Result and Data

BT Number Of Hopping Channels				
Mode	Test Frequency	Packet Type	Test Range	Result
GFSK	Hopping	DH5	2400MHz~2483.5MHz	Pass
DQPSK	Hopping	2DH5	2400MHz~2483.5MHz	Pass
8DPSK	Hopping	3DH5	2400MHz~2483.5MHz	Pass

GFSK,Hopping,DH5,2400~2426.5MHz	GFSK,Hopping,DH5,2400~2483.5MHz
	
GFSK,Hopping,DH5,2426.5~2454.5MHz	GFSK,Hopping,DH5,2454.5~2483.5MHz
	
DQPSK,Hopping,2DH5,2400~2426.5MHz	DQPSK,Hopping,2DH5,2400~2483.5MHz
	

DQPSK,Hopping,2DH5,2426.5~2454.5MHz	DQPSK,Hopping,2DH5,2454.5~2483.5MHz
	
8DPSK,Hopping,3DH5,2400~2426.5MHz	**8DPSK,Hopping,3DH5,2400~2483.5MHz**
	
8DPSK,Hopping,3DH5,2426.5~2454.5MHz	**8DPSK,Hopping,3DH5,2454.5~2483.5MHz**
	

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