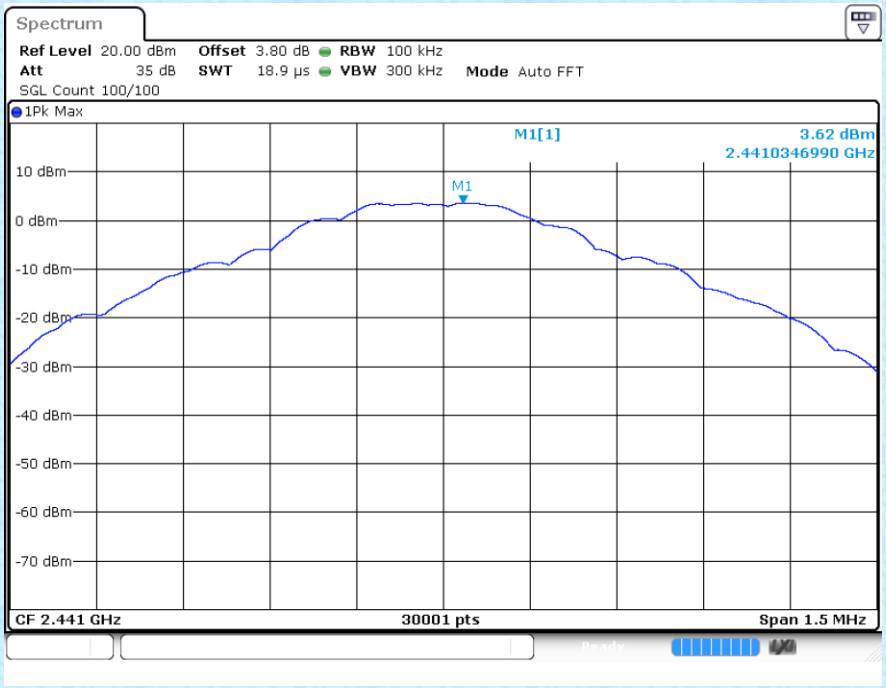
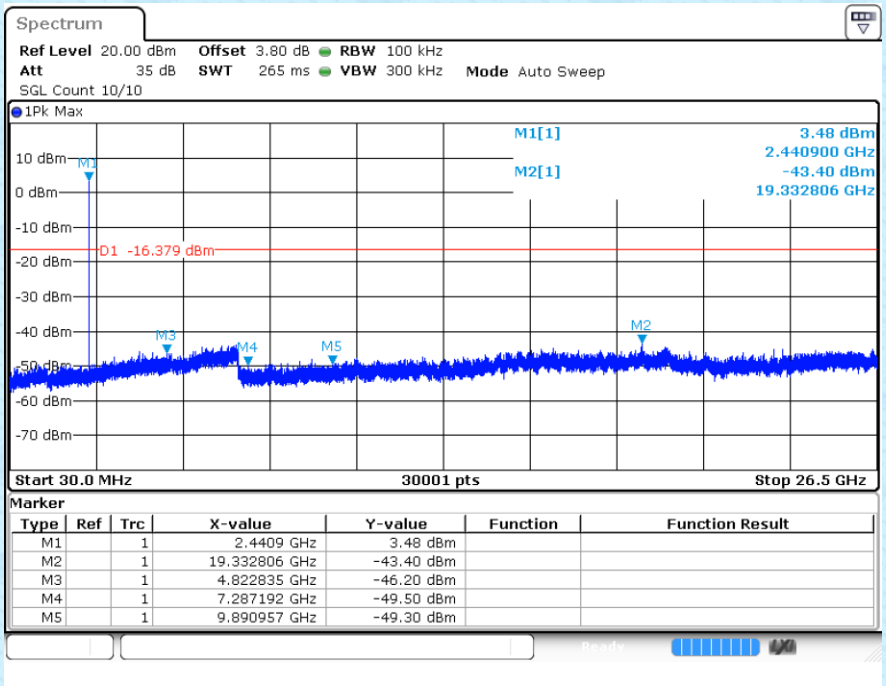
GFSK_MCH_Graphs	
Pref	
Puw	

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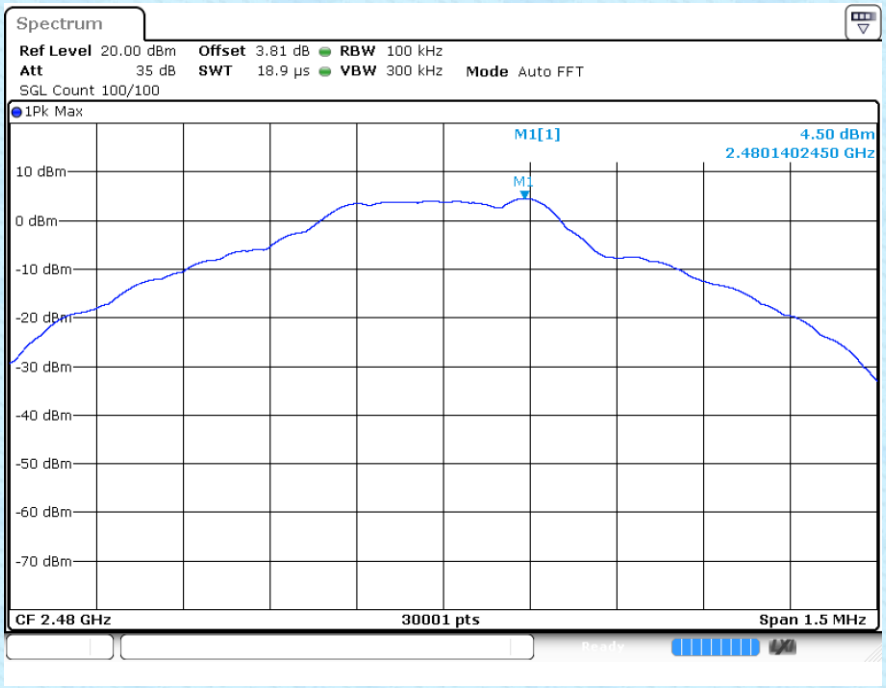
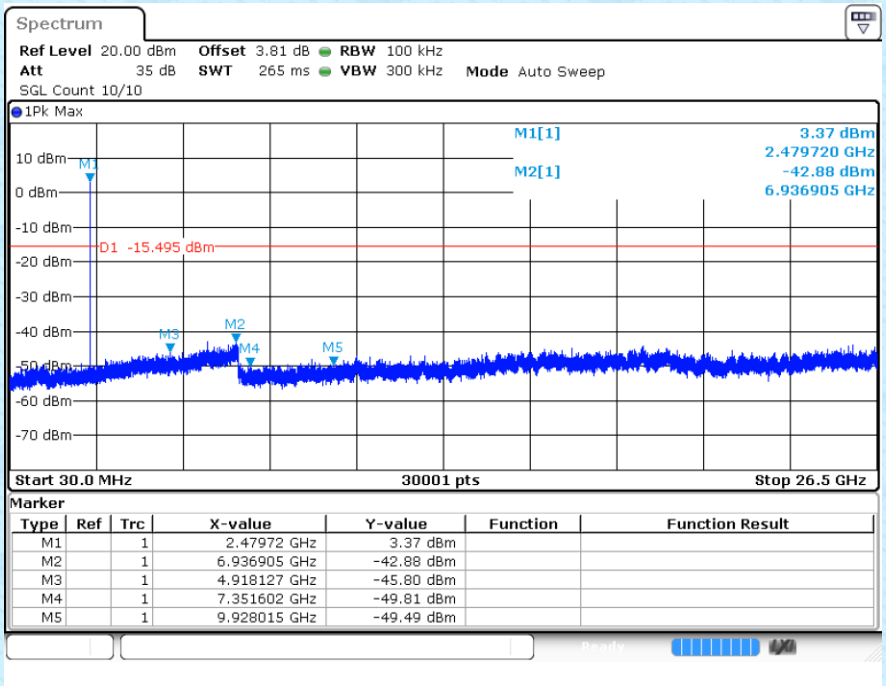
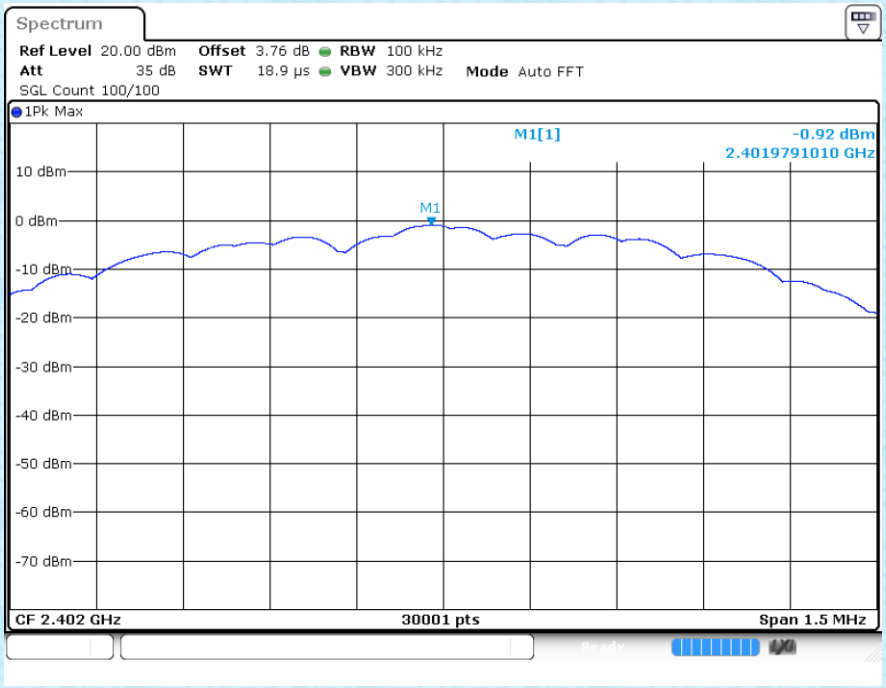
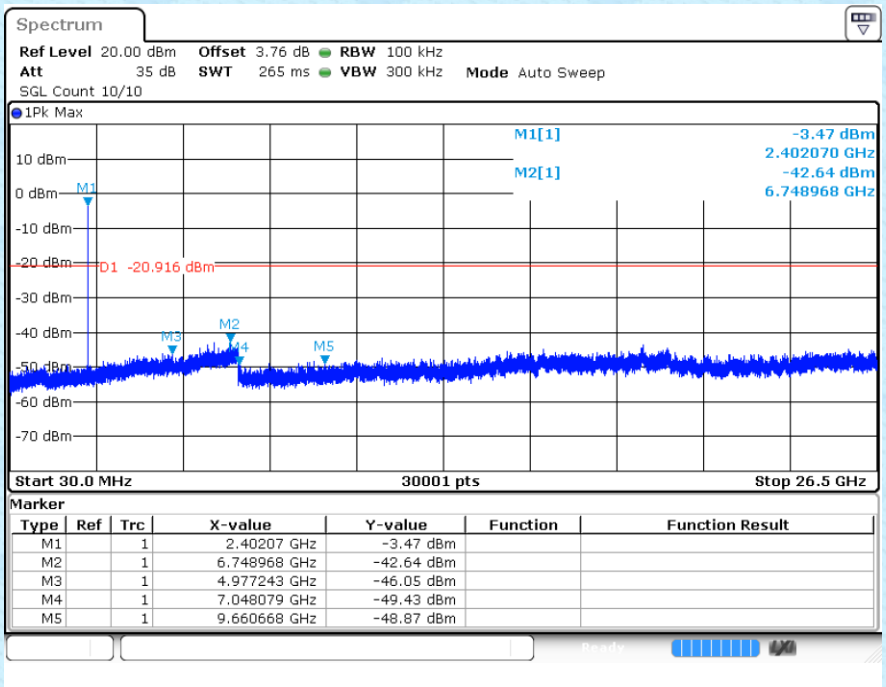
Pref	
Puw	

π/4DQPSK_LCH_Graphs	
Pref	
Puw	

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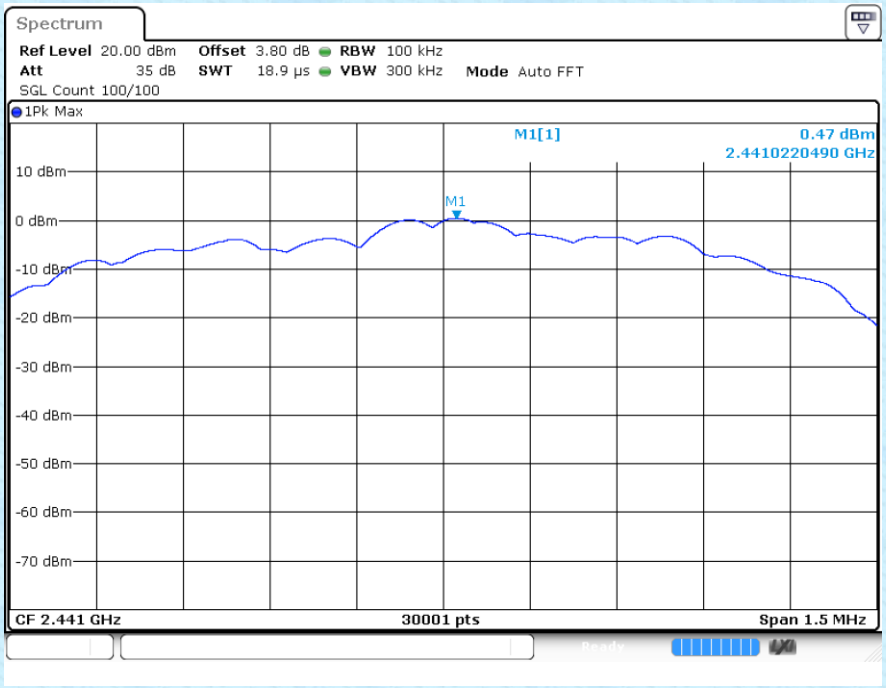
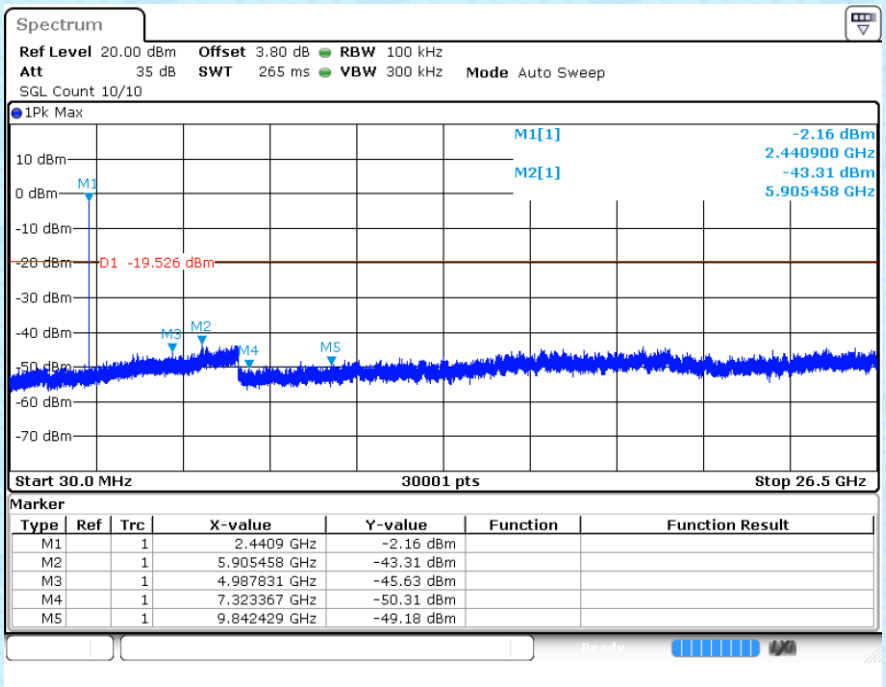
Pref	
Puw	

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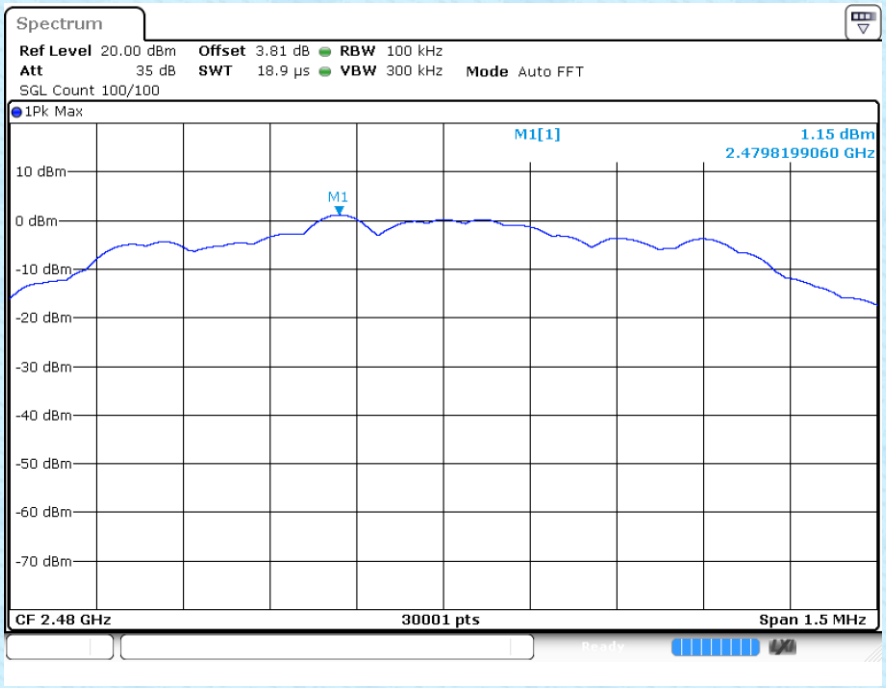
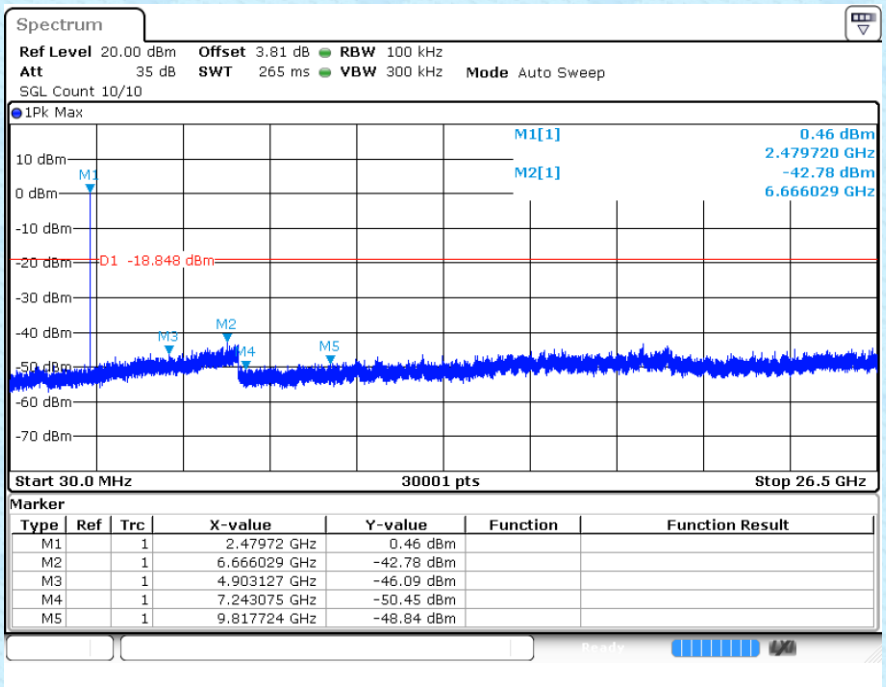
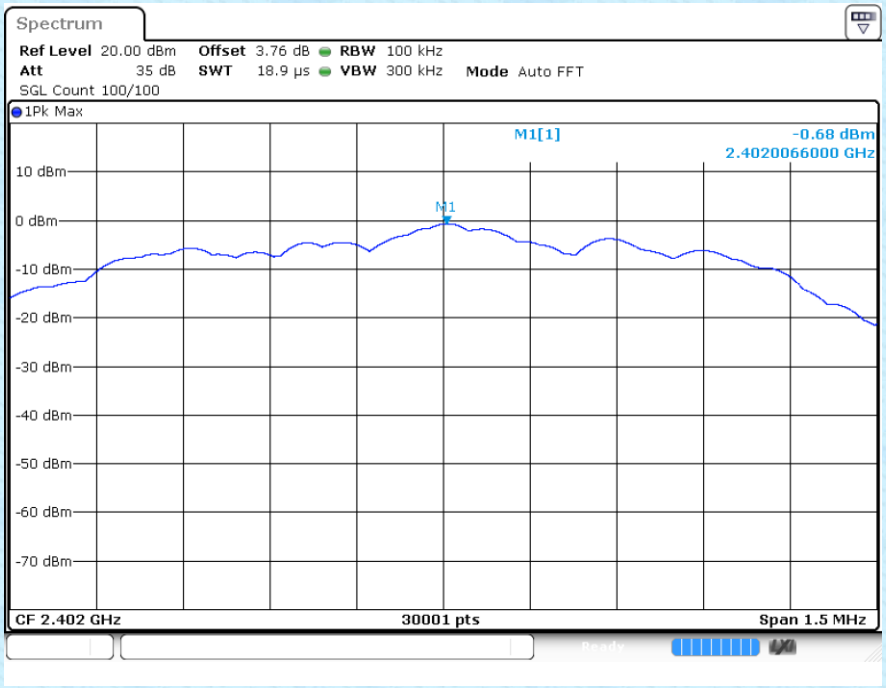
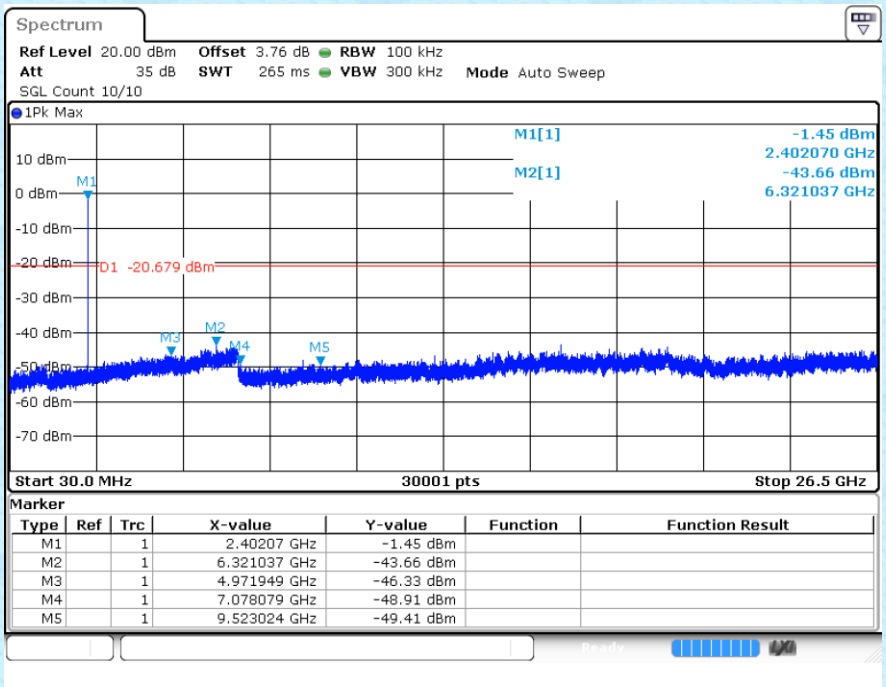
Pref	
Puw	

8DPSK_LCH_Graphs	
Pref	
Puw	

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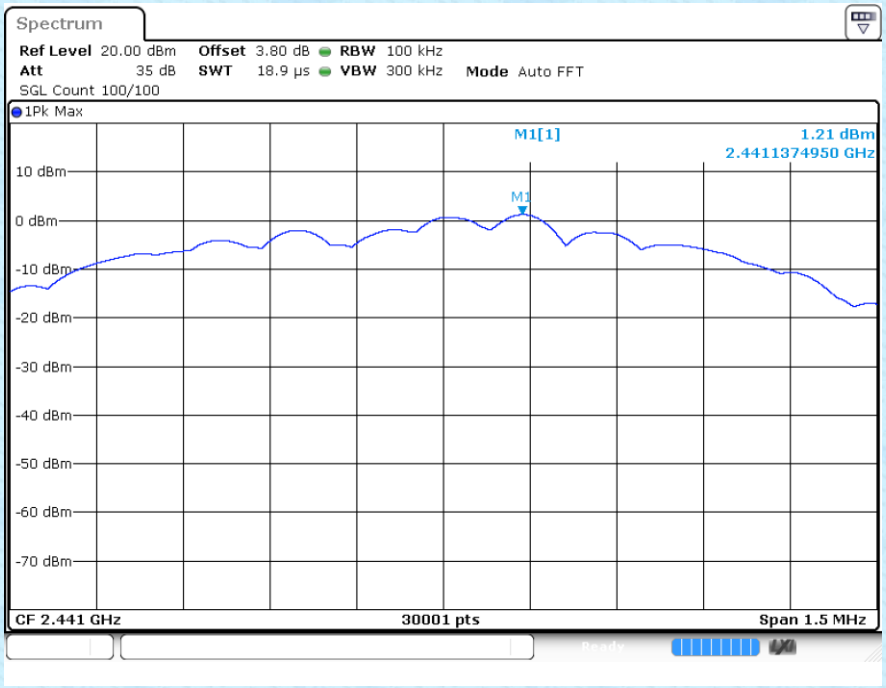
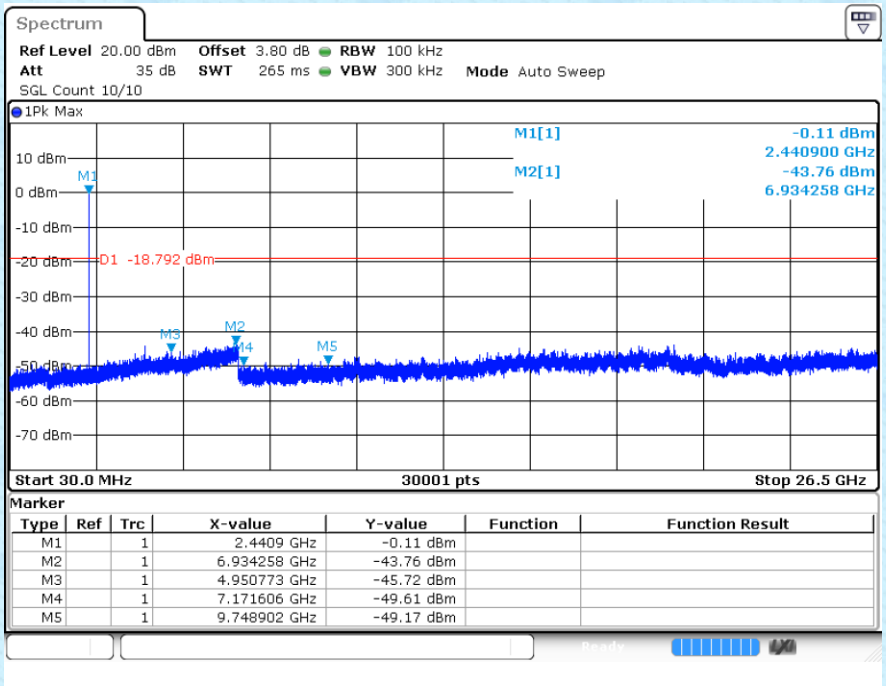
Pref	
Puw	

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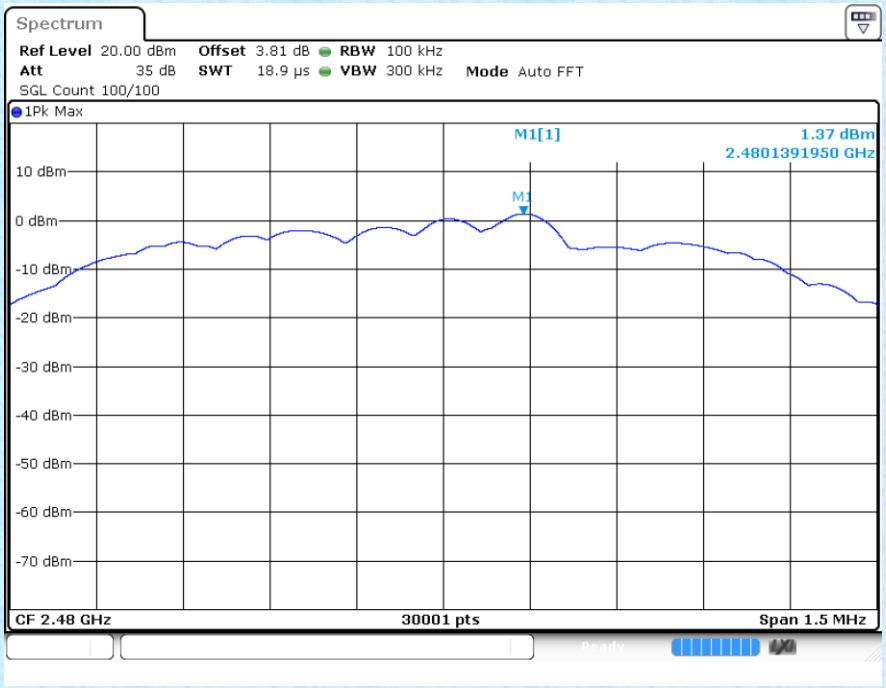
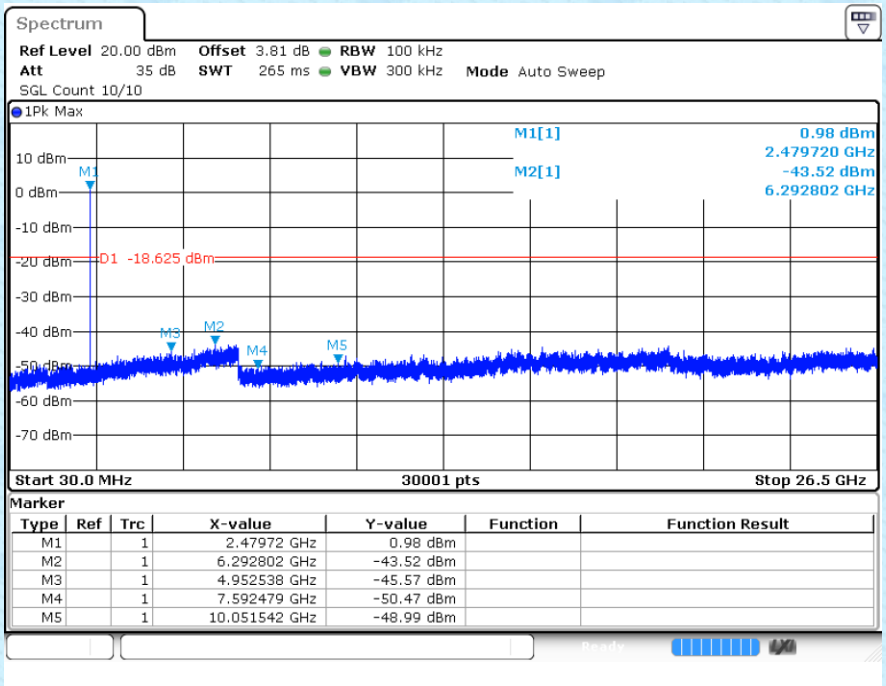
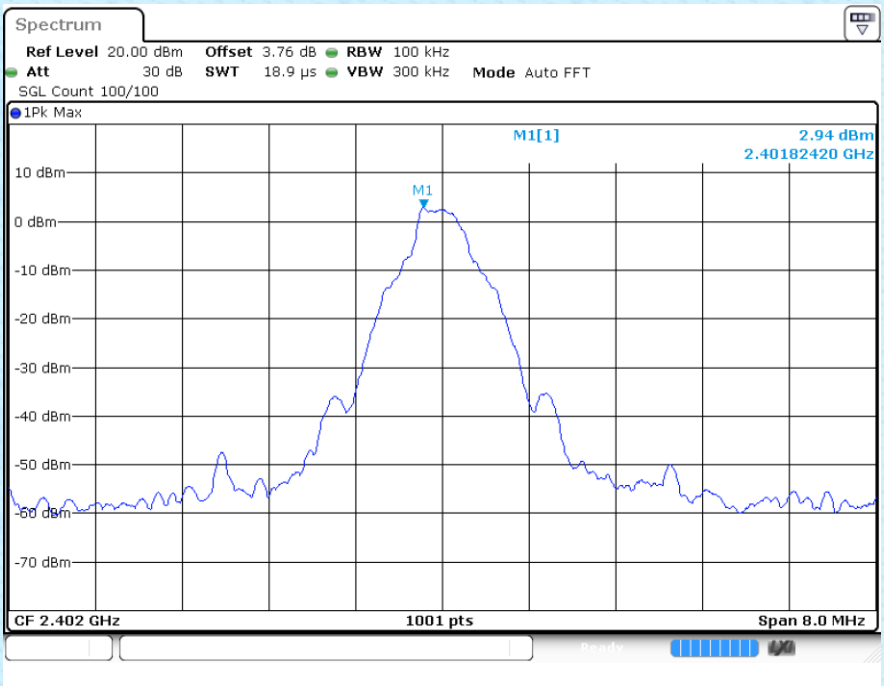
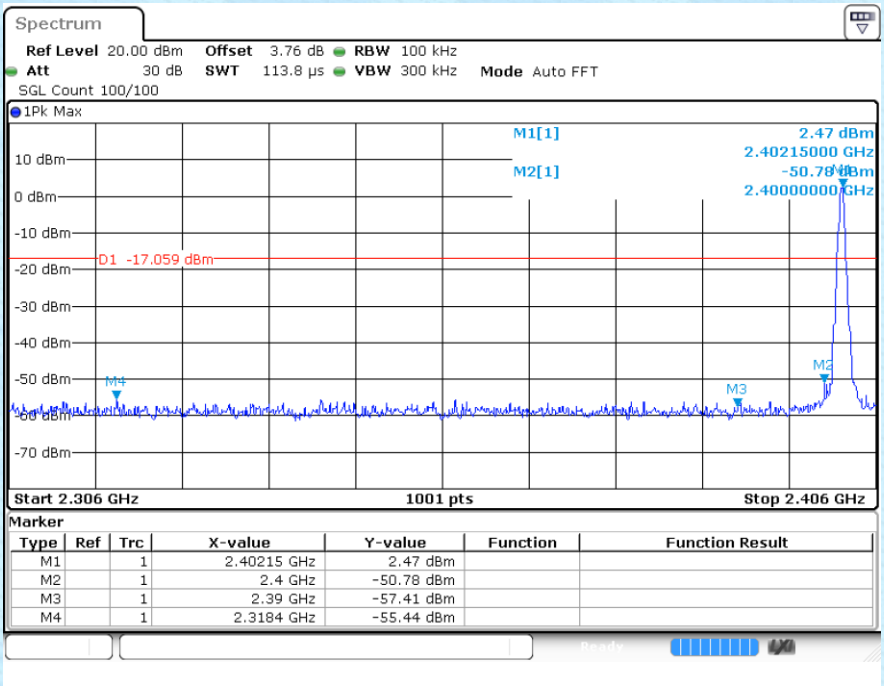
Pref	
Puw	

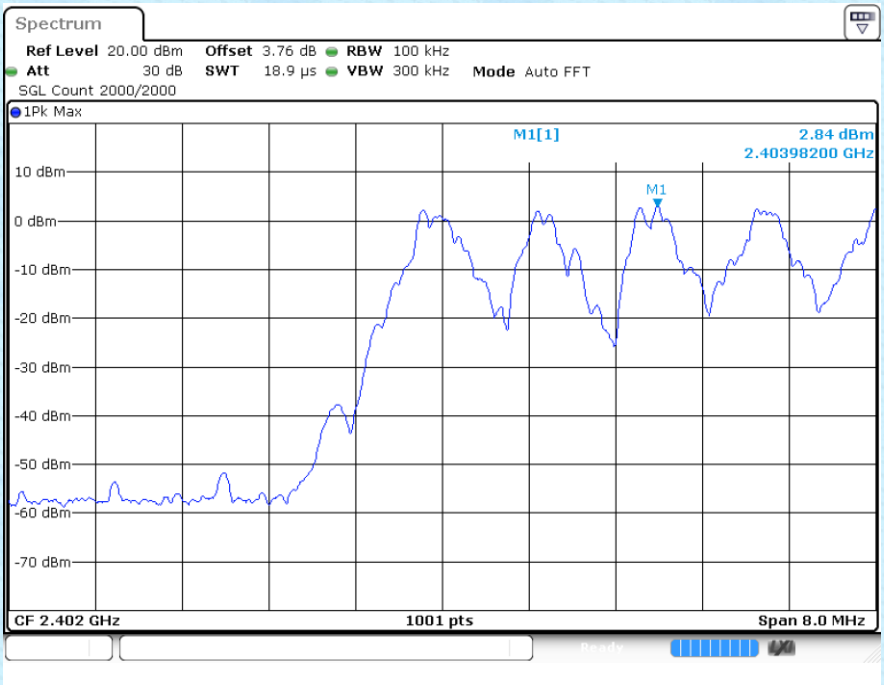
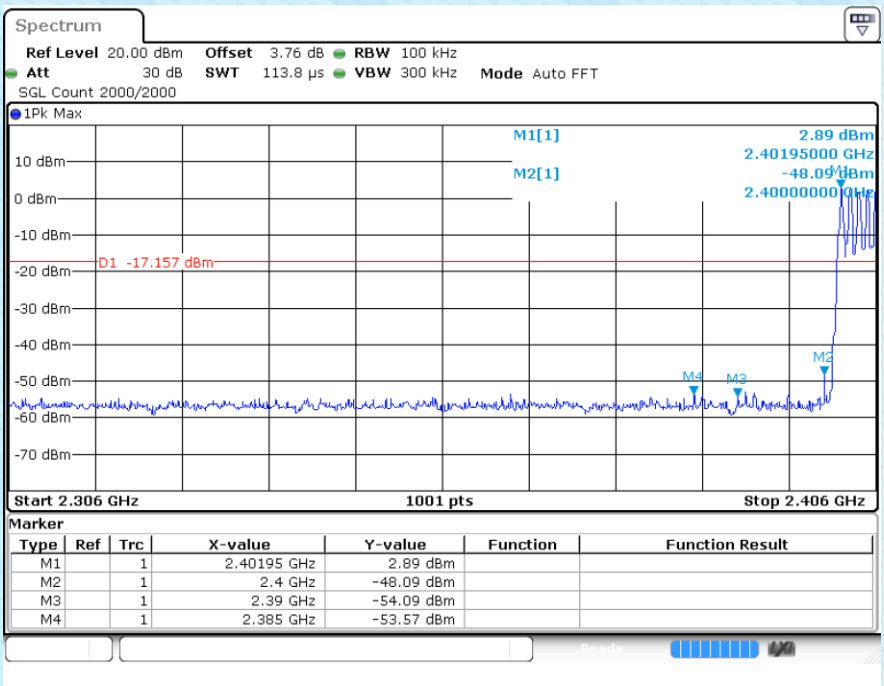
8 Band-edge for RF Conducted Emissions

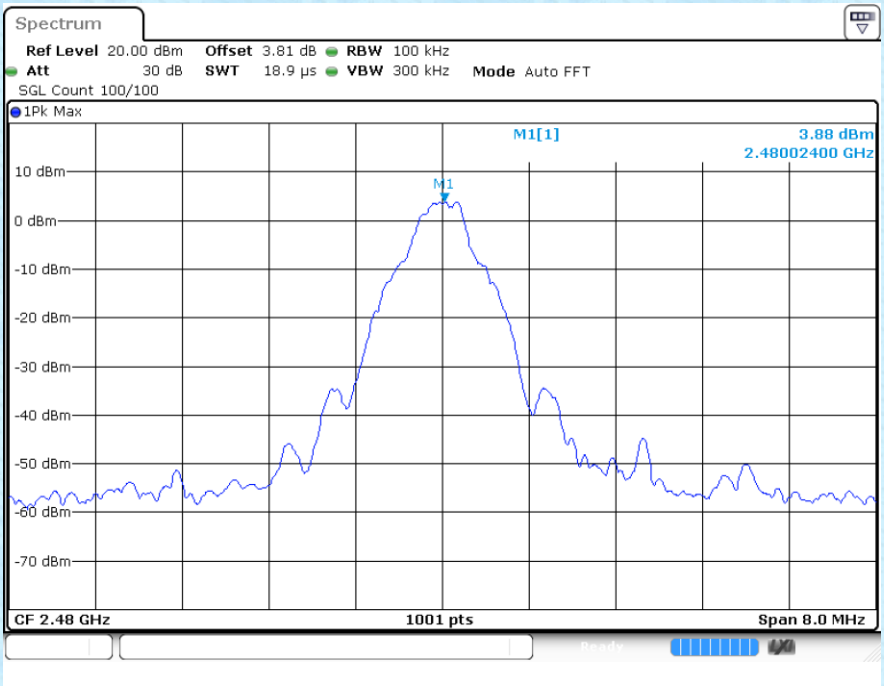
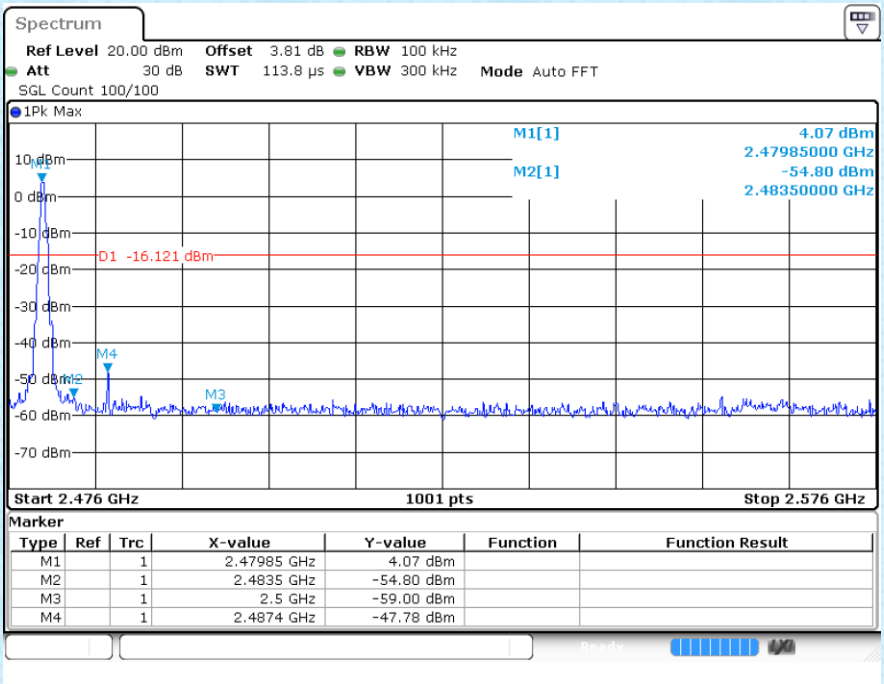
8.1 Test Result

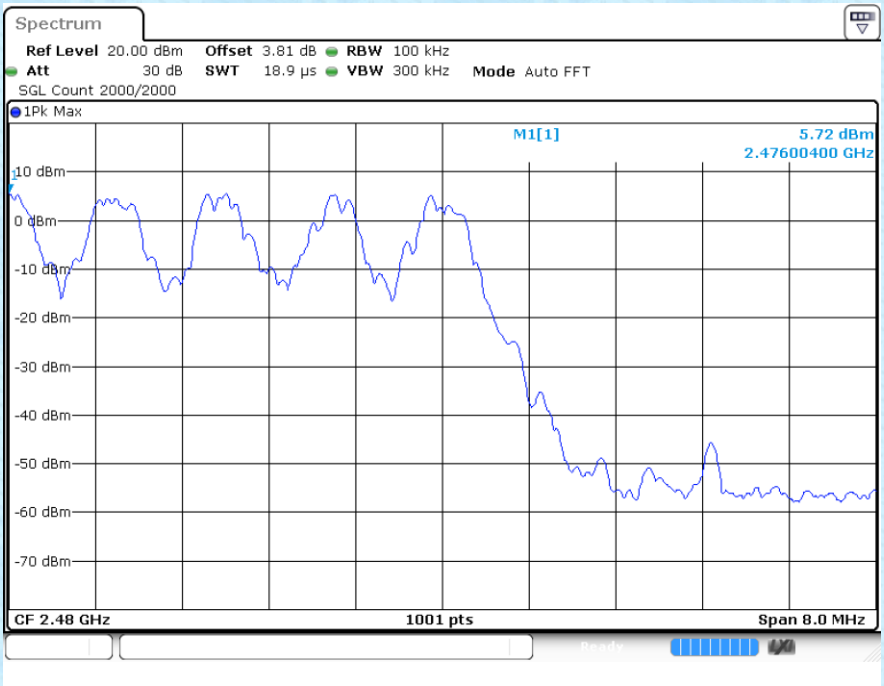
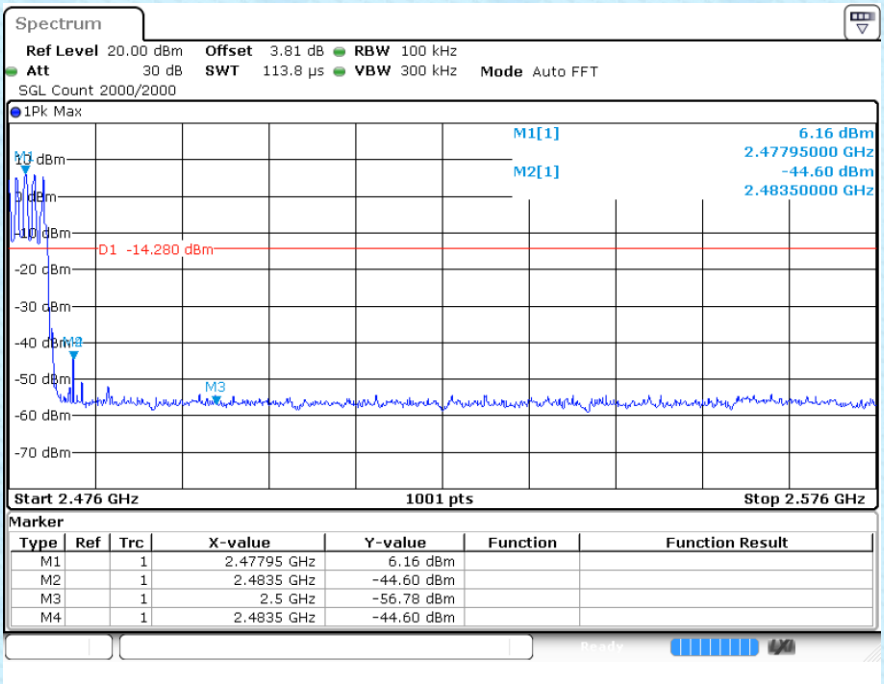
Mode	Channel	Carrier Frequency [MHz]	Frequency Hopping	Max Spurious Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	2402	Off	-58.38	-20	Pass
			On	-56.41	-20	Pass
	HCH	2480	Off	-51.66	-20	Pass
			On	-50.32	-20	Pass
π/4DQPSK	LCH	2402	Off	-54.06	-20	Pass
			On	-53.93	-20	Pass
	HCH	2480	Off	-50.2	-20	Pass
			On	-56.92	-20	Pass
8DPSK	LCH	2402	Off	-55.75	-20	Pass
			On	-54.33	-20	Pass
	HCH	2480	Off	-46.51	-20	Pass
			On	-48.38	-20	Pass

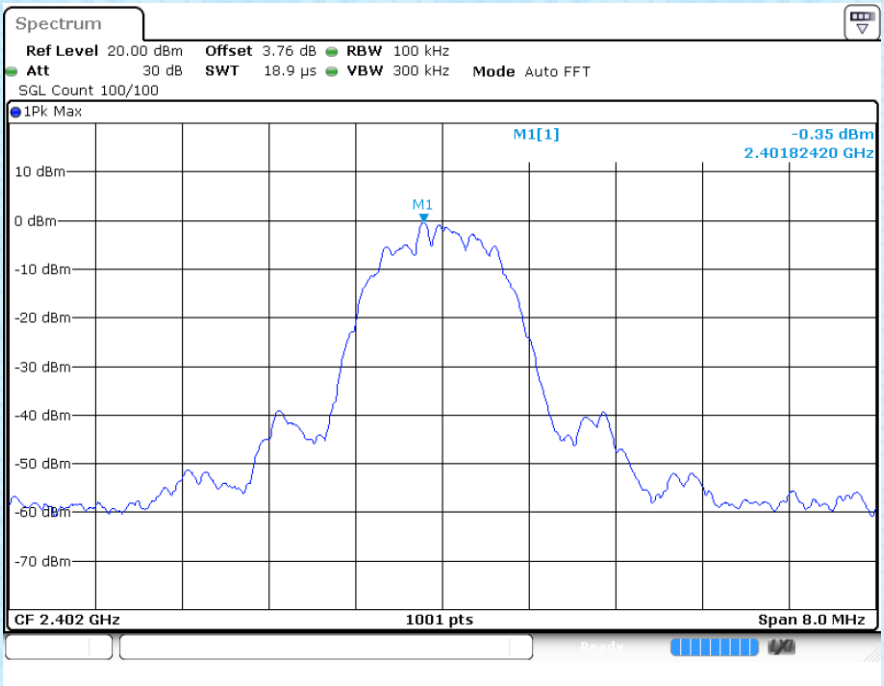
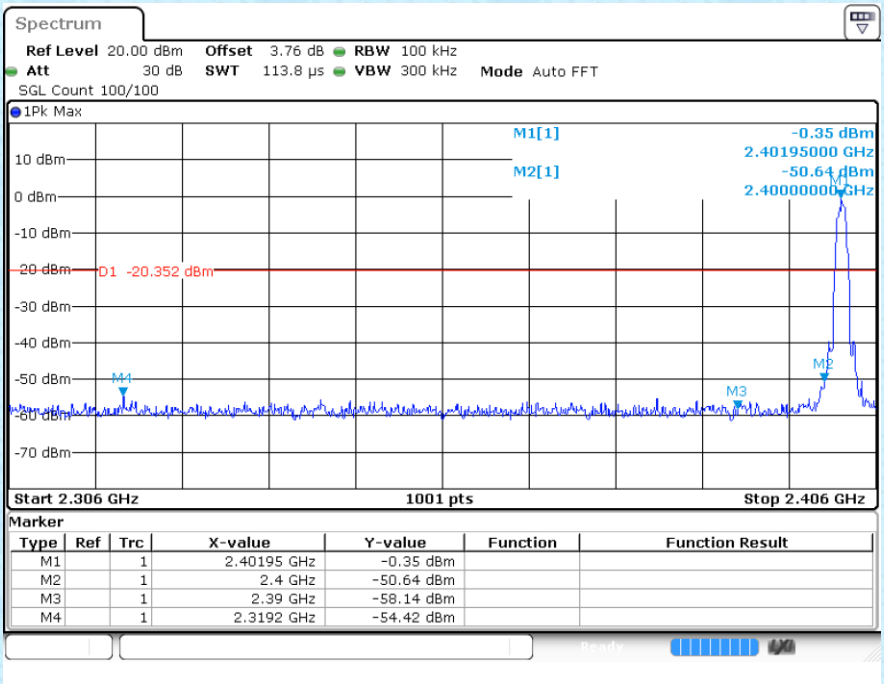
8.2 Test Graphs

Test Graphs	
Pref	
GFSK/LCH/No Hop	

Ref	
GFSK/LCH/Hop	

Ref	
GFSK/HCH/No Hop	

Ref.	
GFSK/HCH/Hop	

Ref	
π/4DQPSK/LCH/No Hop	

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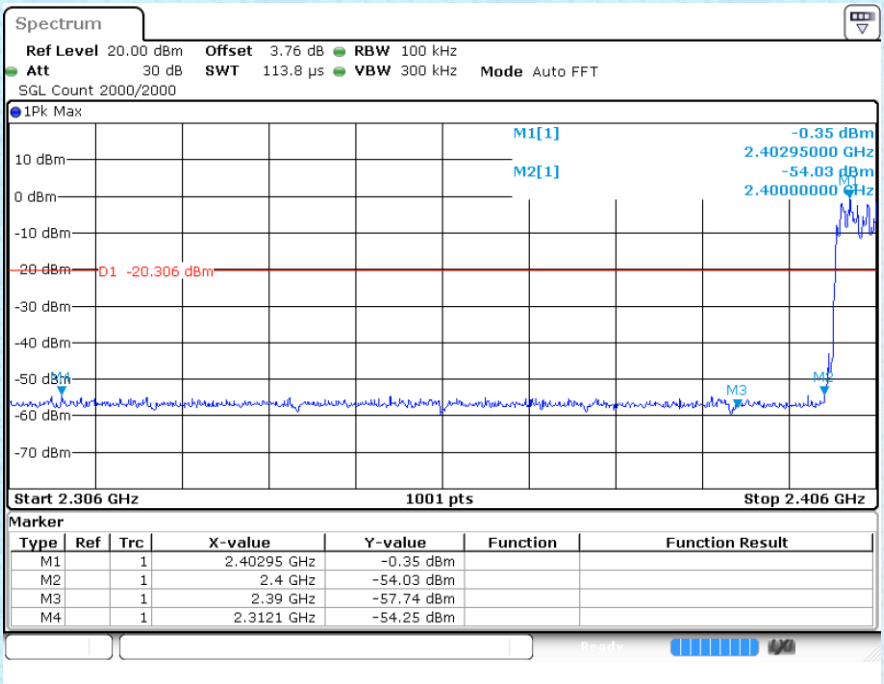
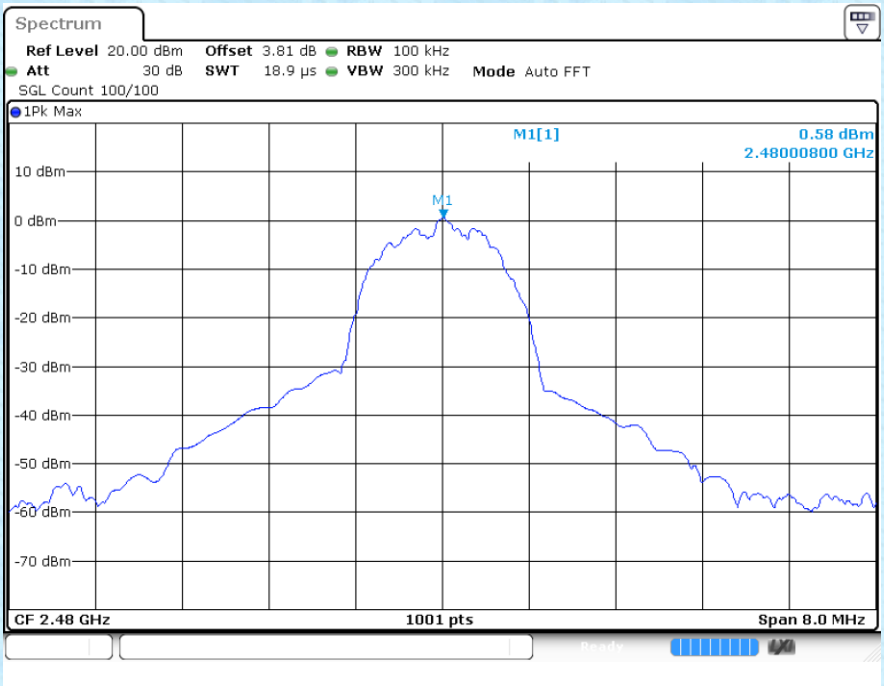
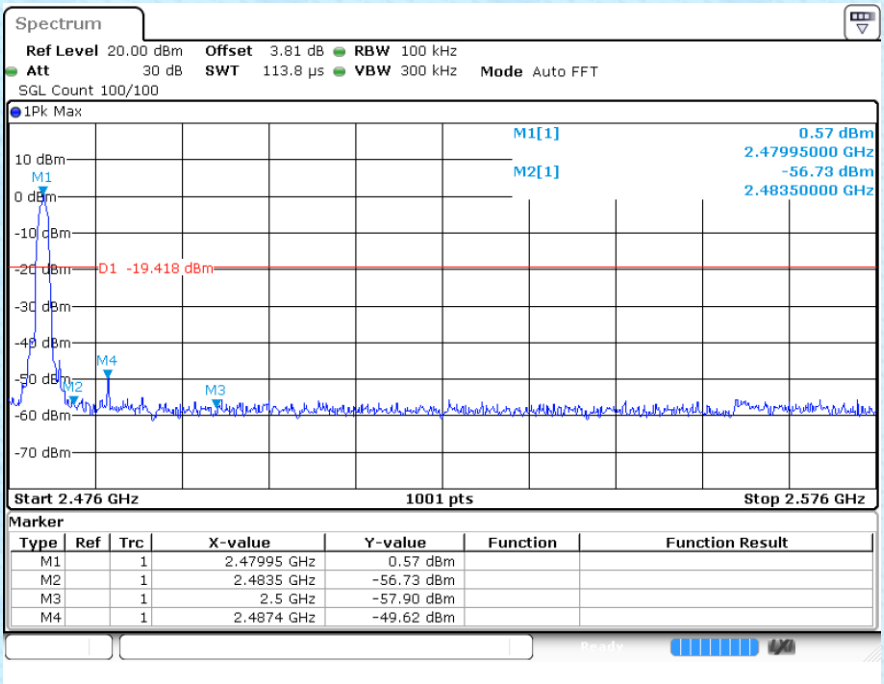
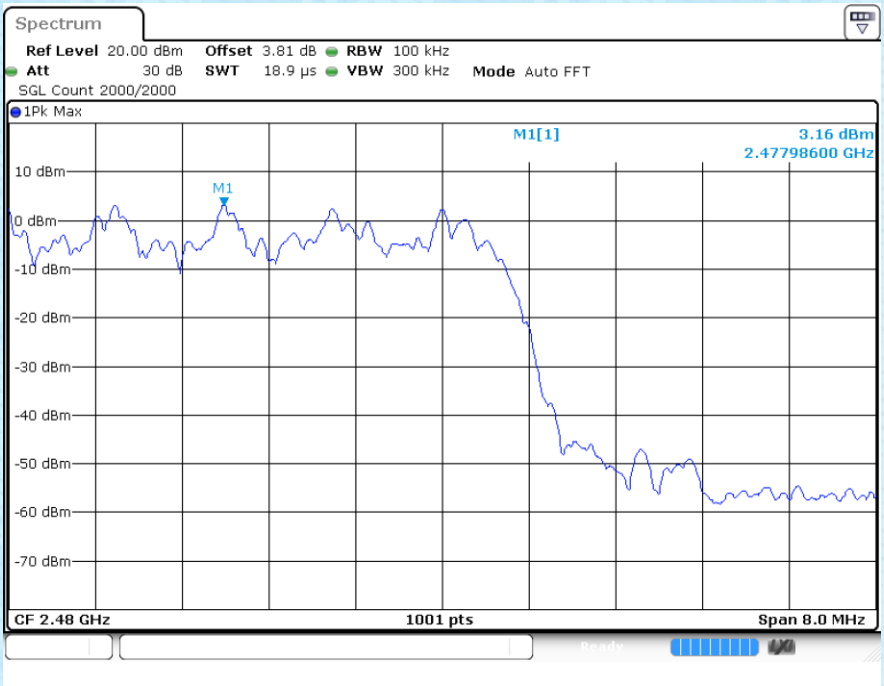
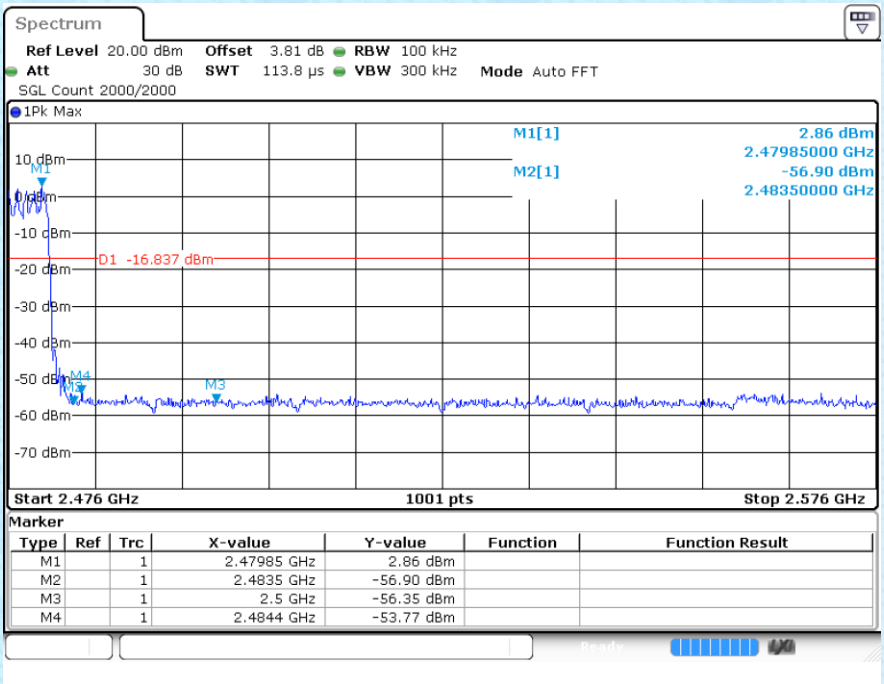
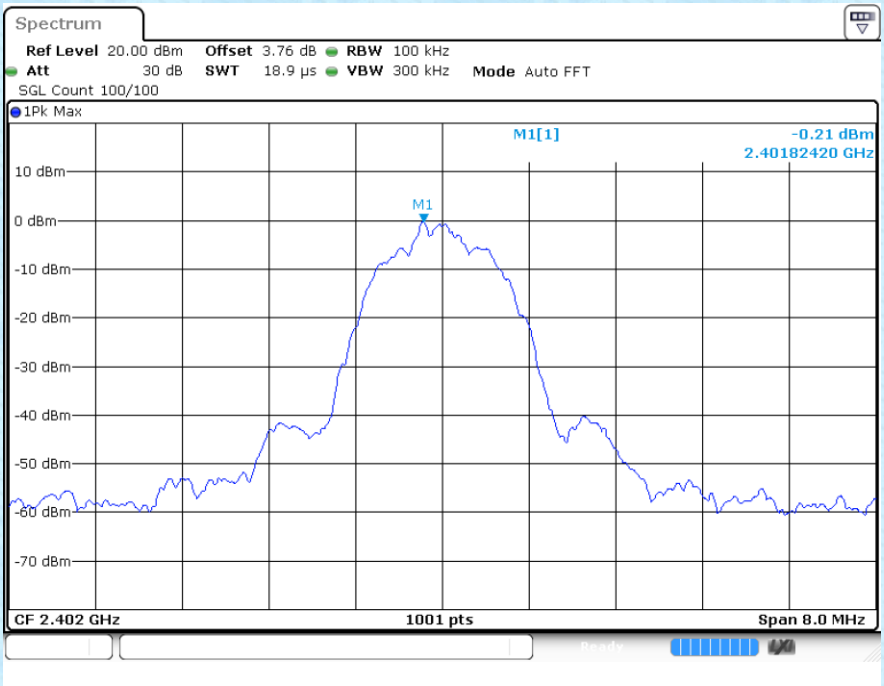
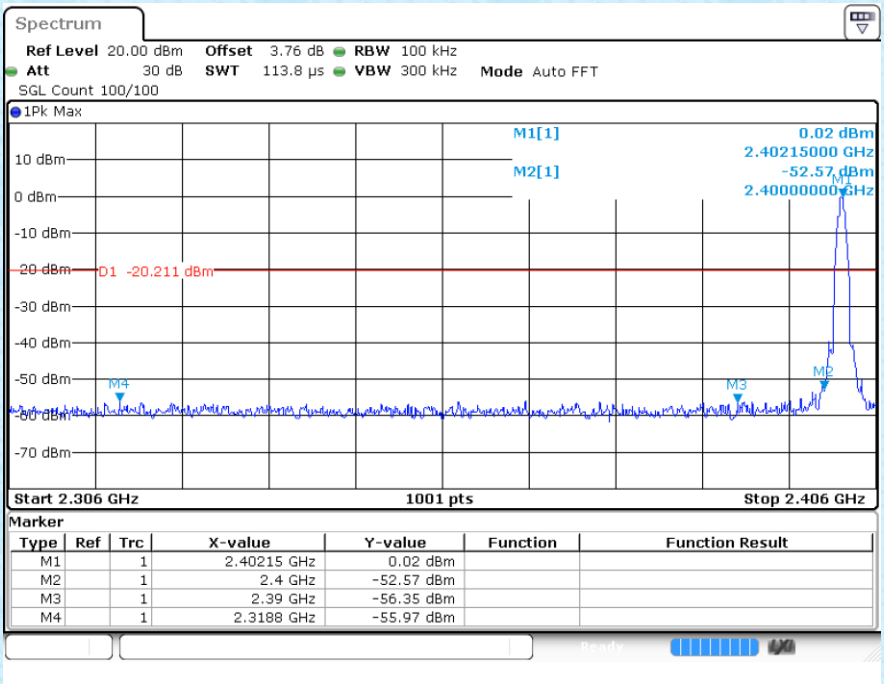
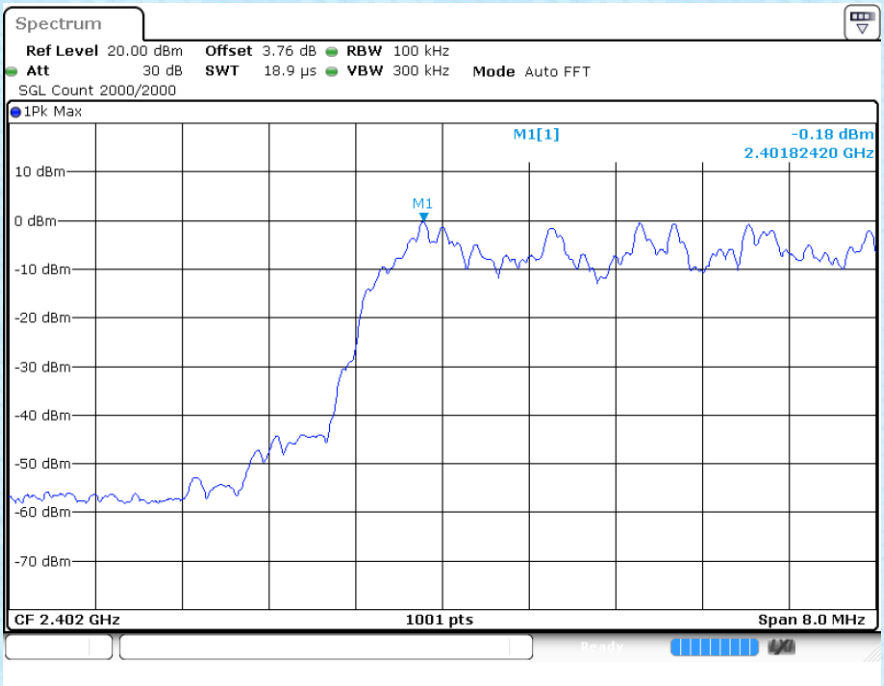
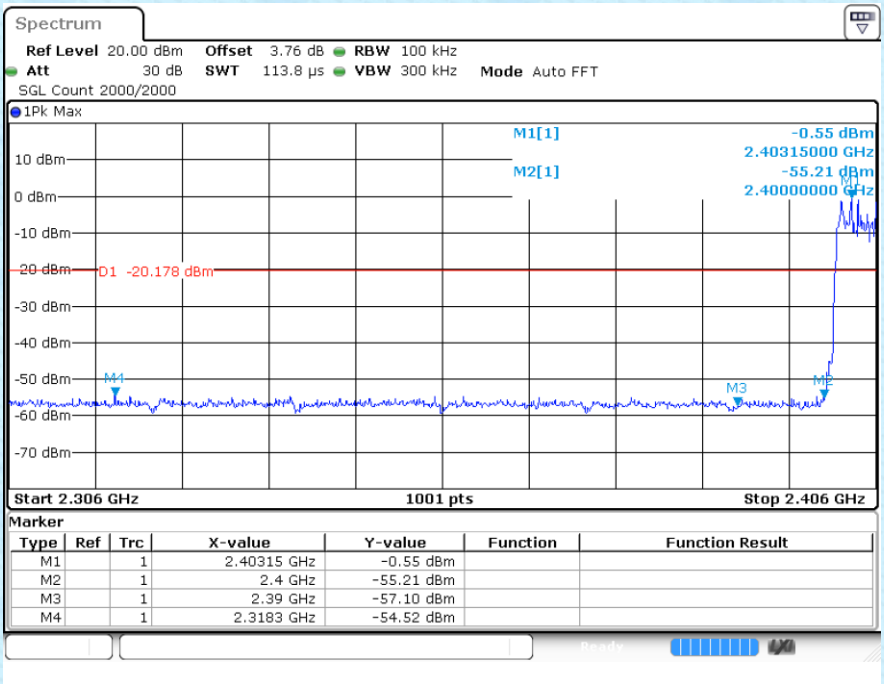
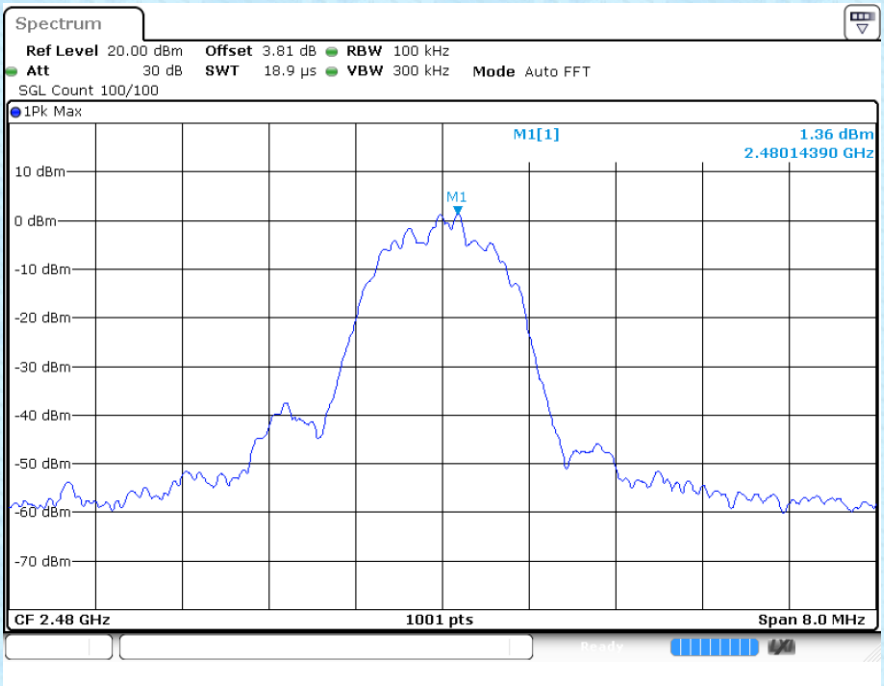
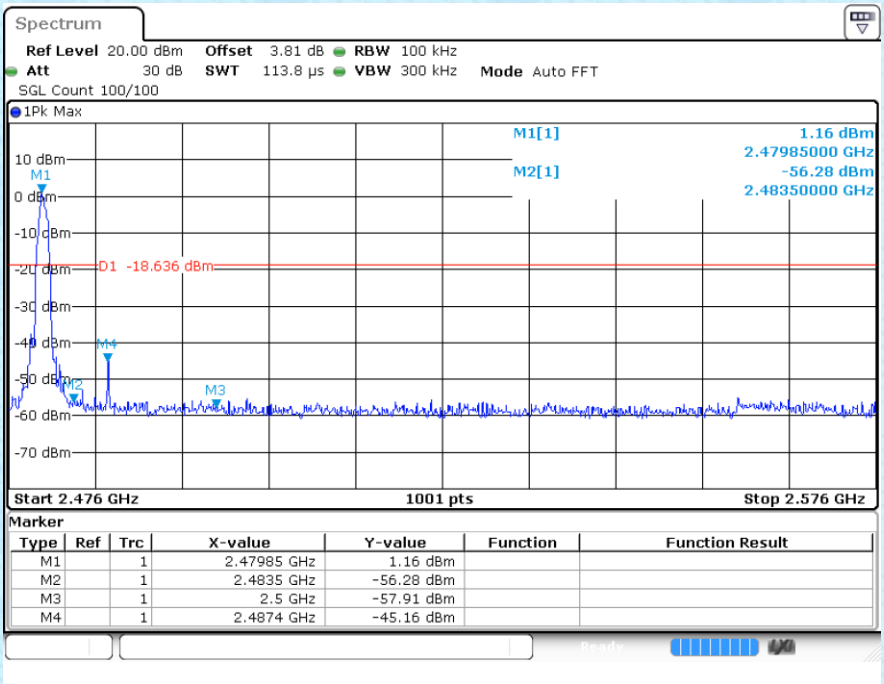
π/4DQPSK/LCH/Hop	

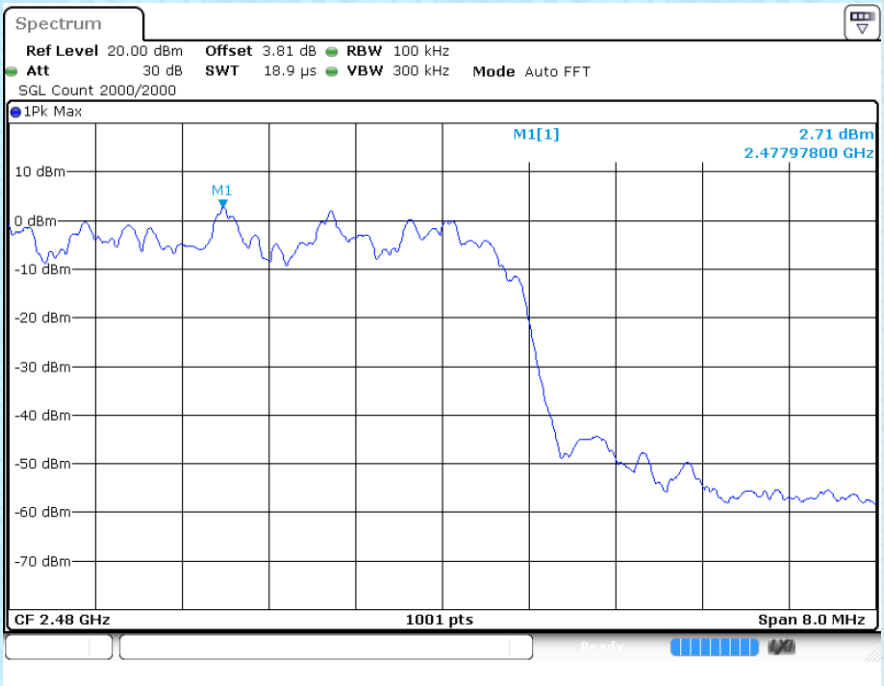
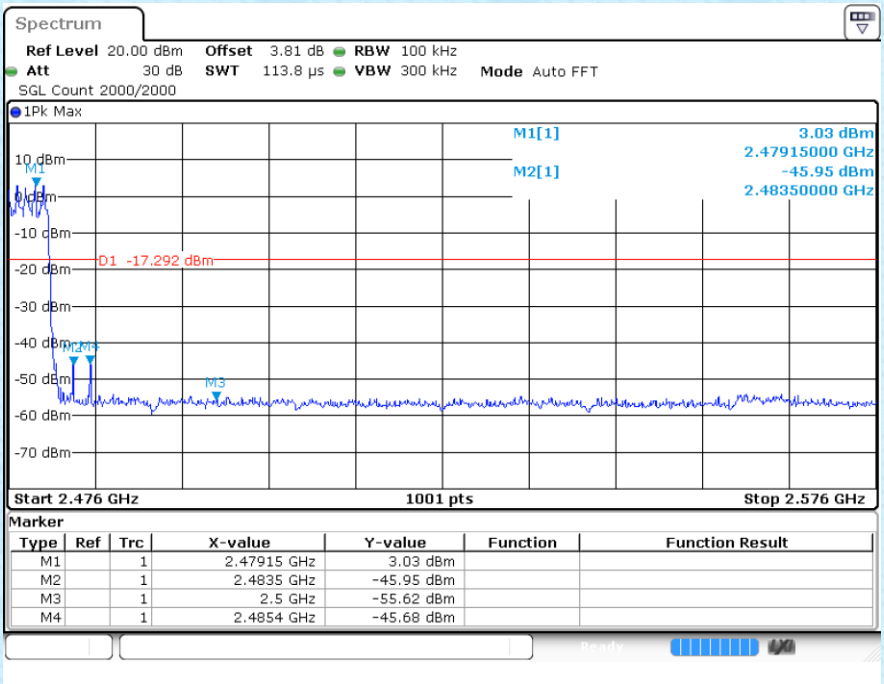
Ref	
π/4DQPSK/HCH/No Hop	

Ref	
π/4DQPSK/HCH/Hop	

Ref	
8DPSK/LCH/No Hop	

Ref	
8DPSK/LCH/Hop	

Ref	
8DPSK/HCH/No Hop	

Ref	
8DPSK/HCH/Hop	

9 Restrict-band band-edge measurements

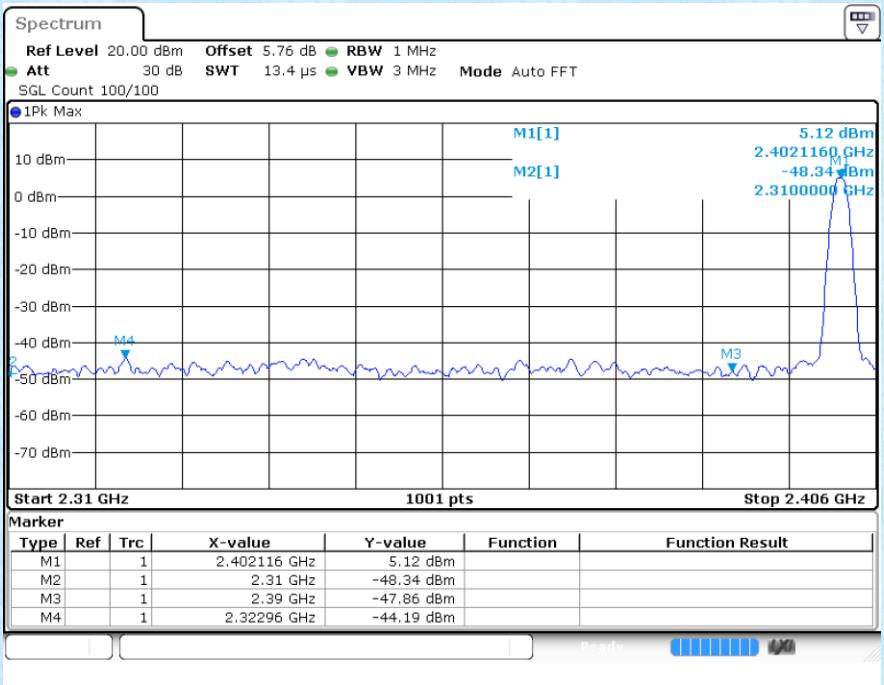
9.1 Test Result

Test Mode	Hopping	Freq.	Power [dBm]	Gain	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-48.33	2	48.93	PEAK	74	Pass
	Off	2310.0	-56.1	2	41.16	AV	54	Pass
	Off	2322.96	-44.19	2	53.07	PEAK	74	Pass
	Off	2341.872	-53.64	2	43.62	AV	54	Pass
	Off	2390.0	-47.86	2	49.4	PEAK	74	Pass
	Off	2390.0	-56.36	2	40.9	AV	54	Pass
	Off	2483.5	-46.15	2	51.11	PEAK	74	Pass
	Off	2483.5	-54.24	2	43.02	AV	54	Pass
	Off	2487.376	-43.86	2	53.4	PEAK	74	Pass
	Off	2483.512	-54.24	2	43.02	AV	54	Pass
	Off	2500.0	-46.79	2	50.47	PEAK	74	Pass
	Off	2500.0	-55.78	2	41.48	AV	54	Pass
π/4DQPSK	Off	2310.0	-45.51	2	51.75	PEAK	74	Pass
	Off	2310.0	-55.82	2	41.44	AV	54	Pass
	Off	2342.448	-44.1	2	53.16	PEAK	74	Pass
	Off	2339.952	-53.8	2	43.46	AV	54	Pass
	Off	2390.0	-47.26	2	50	PEAK	74	Pass
	Off	2390.0	-54.98	2	42.28	AV	54	Pass
	Off	2483.5	-46.24	2	51.02	PEAK	74	Pass
	Off	2483.5	-53.22	2	44.04	AV	54	Pass
	Off	2487.256	-39.13	2	58.13	PEAK	74	Pass
	Off	2483.512	-53.22	2	44.04	AV	54	Pass
	Off	2500.0	-47.06	2	50.2	PEAK	74	Pass
	Off	2500.0	-54.92	2	42.34	AV	54	Pass
8DPSK	Off	2310.0	-48.15	2	49.11	PEAK	74	Pass
	Off	2310.0	-55.01	2	42.25	AV	54	Pass
	Off	2341.68	-43.3	2	53.96	PEAK	74	Pass
	Off	2342.064	-53.67	2	43.59	AV	54	Pass

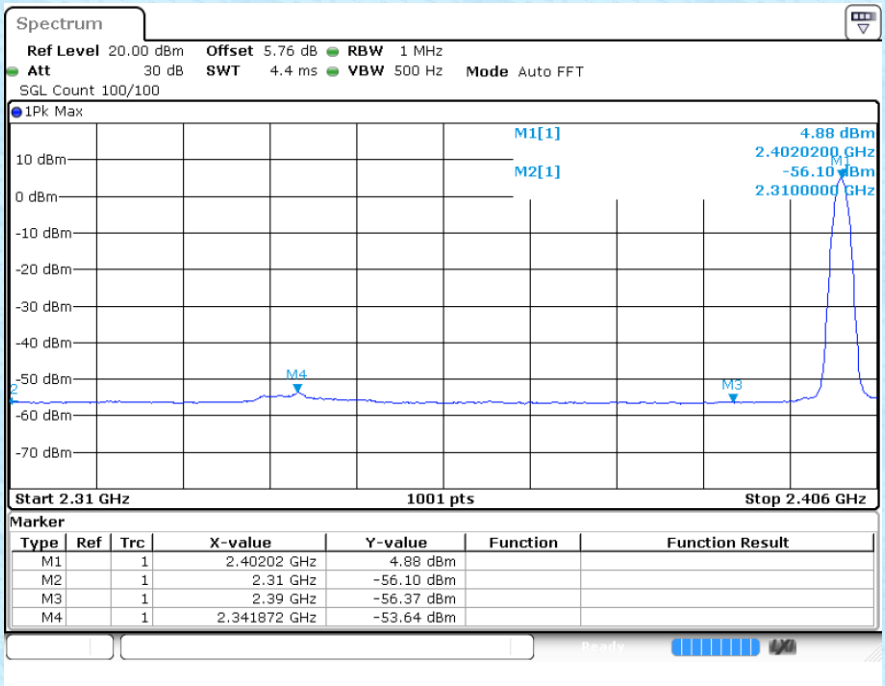
	Off	2390.0	-45.99	2	51.27	PEAK	74	Pass
	Off	2390.0	-54.83	2	42.43	AV	54	Pass
	Off	2483.5	-46.53	2	50.73	PEAK	74	Pass
	Off	2483.5	-52.77	2	44.49	AV	54	Pass
	Off	2487.136	-44.46	2	52.8	PEAK	74	Pass
	Off	2483.944	-52.28	2	44.98	AV	54	Pass
	Off	2500.0	-46.91	2	50.35	PEAK	74	Pass
	Off	2500.0	-55.15	2	42.11	AV	54	Pass

9.2 Test Graphs

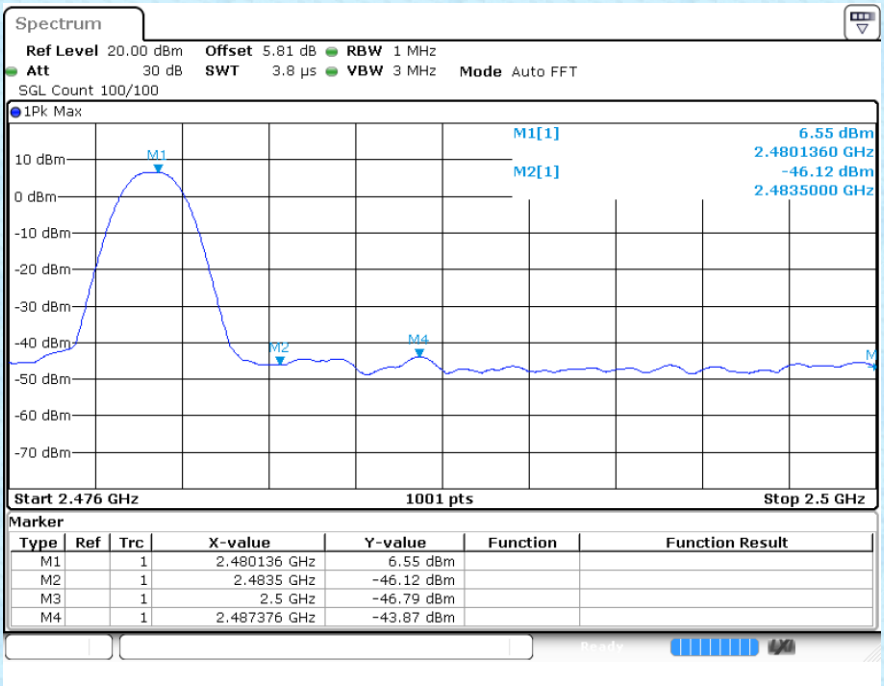
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (Low Channel)



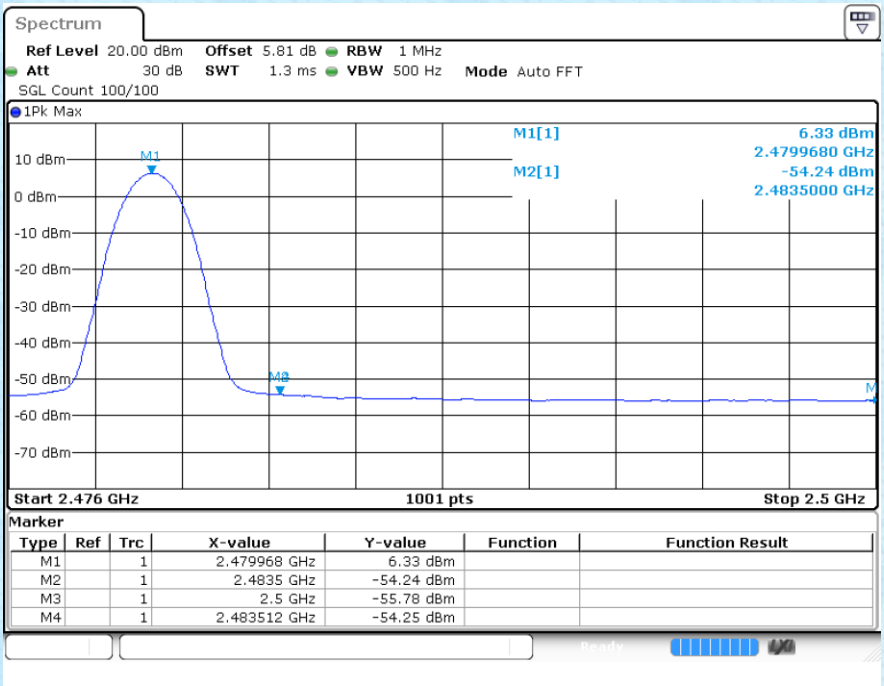
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



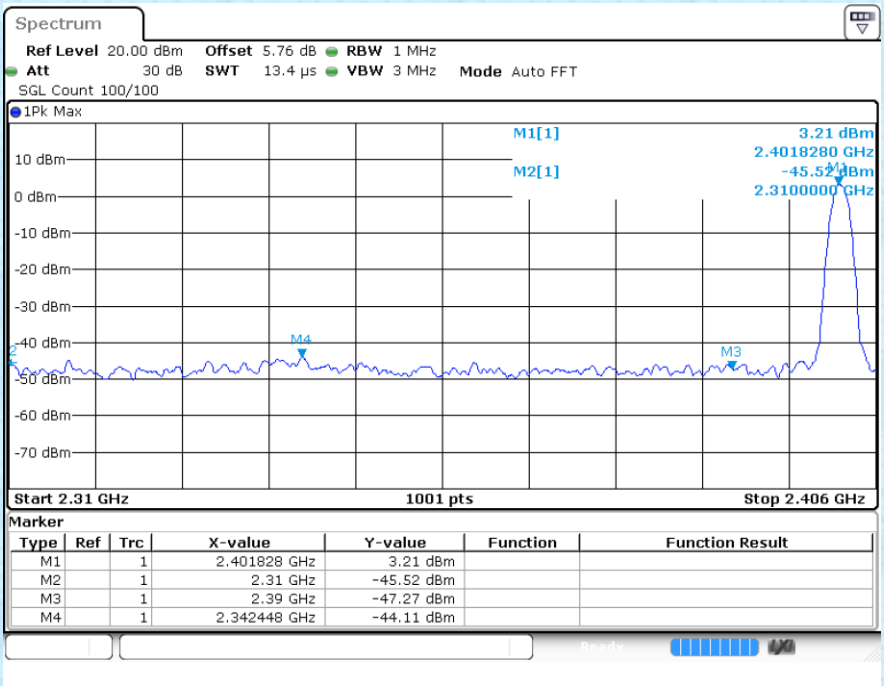
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



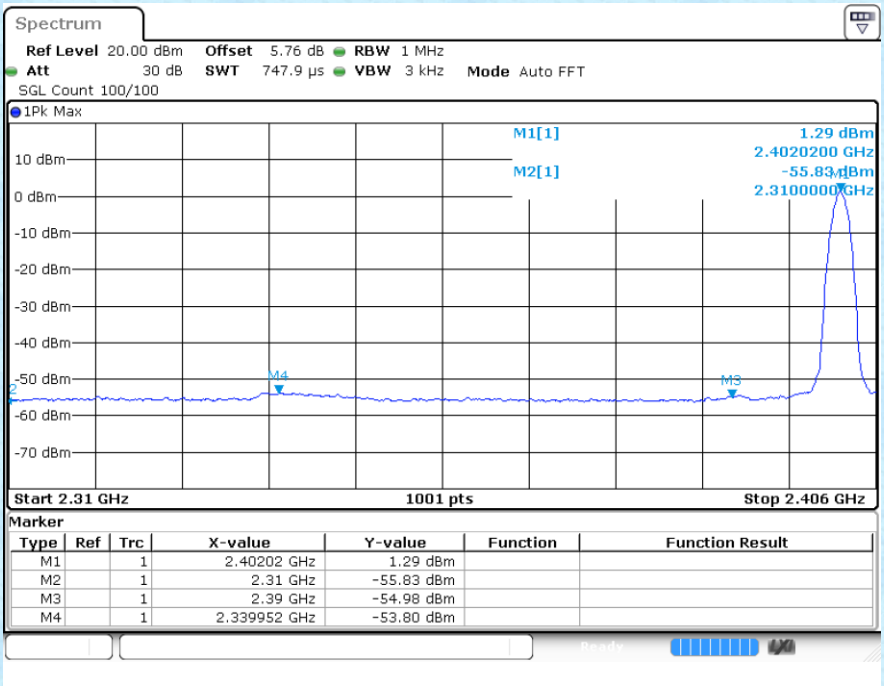
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



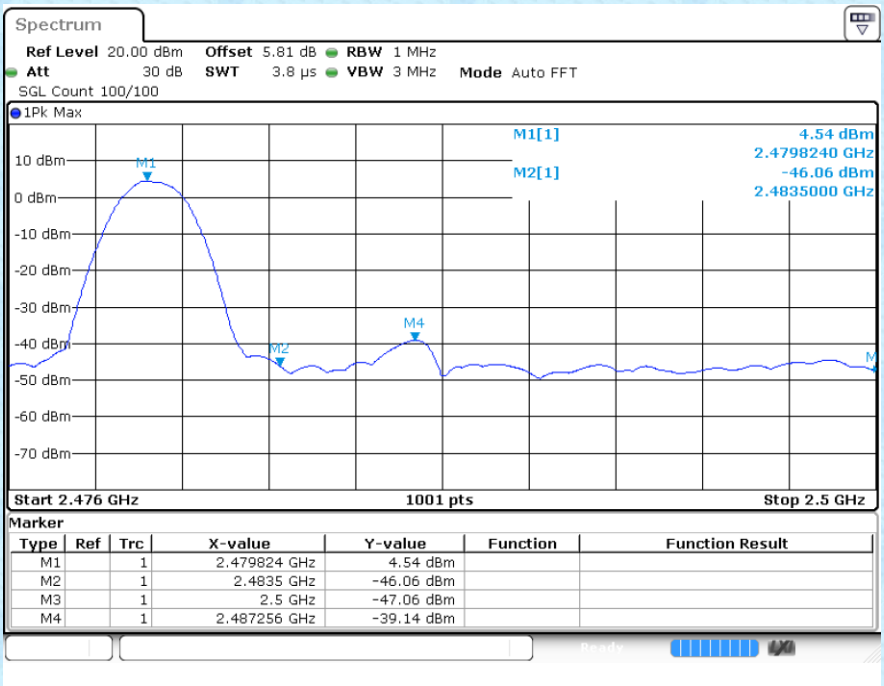
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



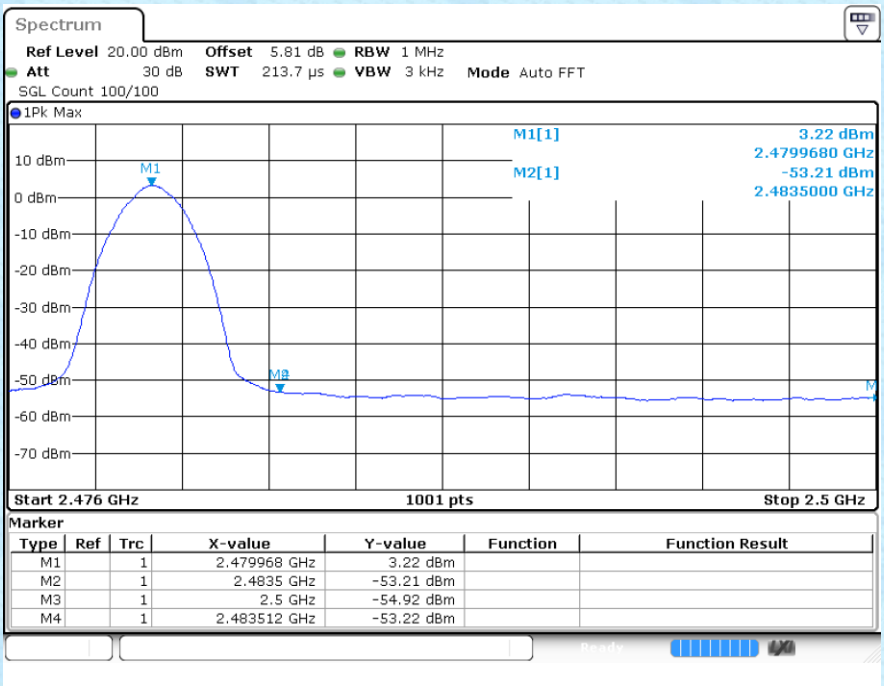
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



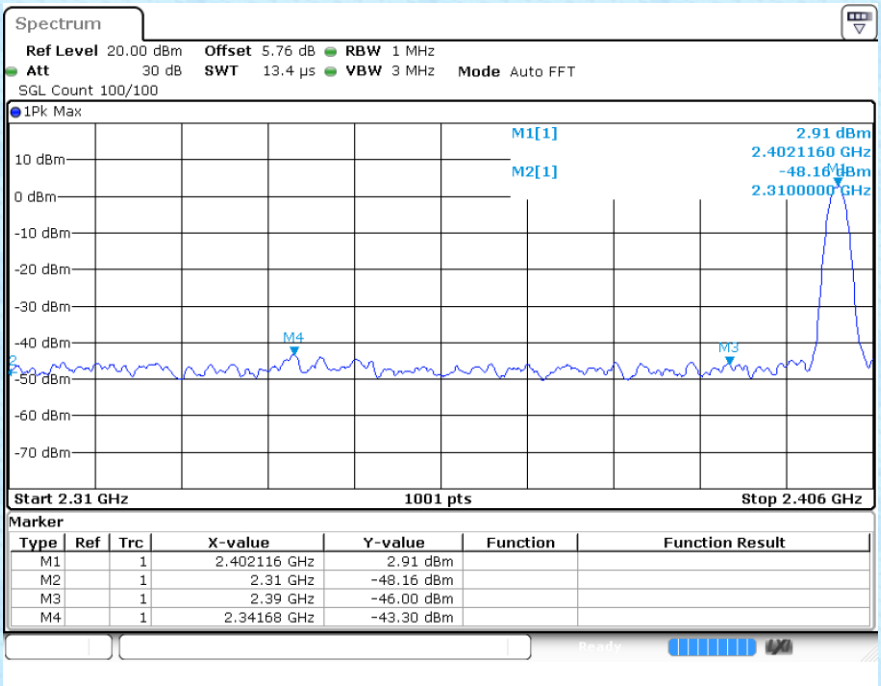
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



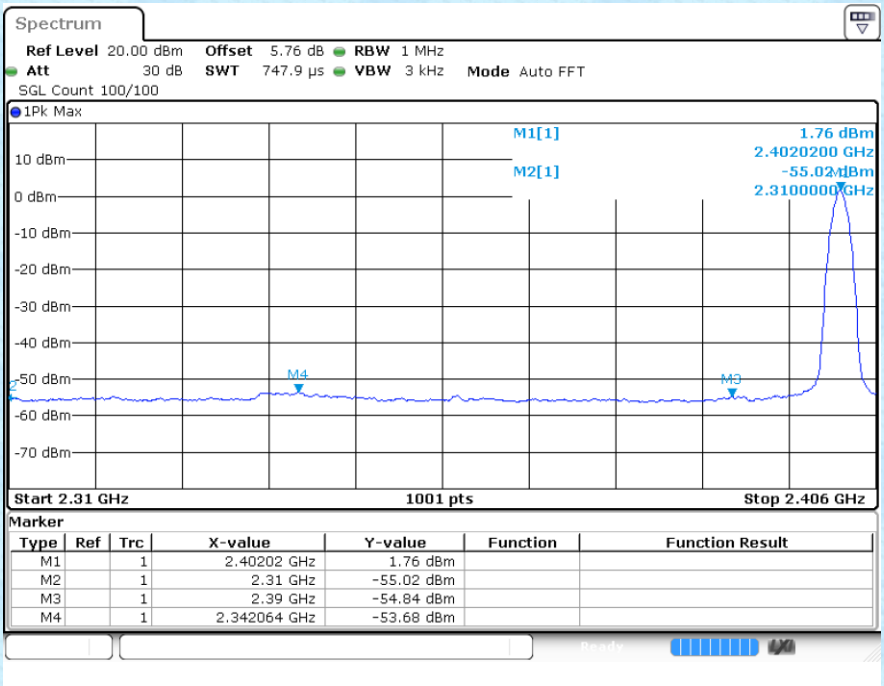
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



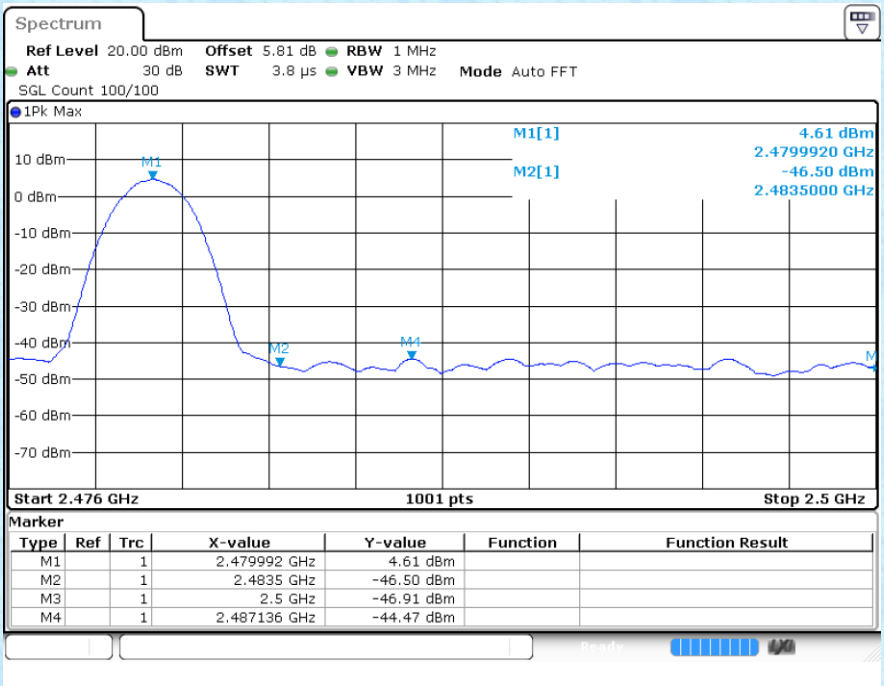
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



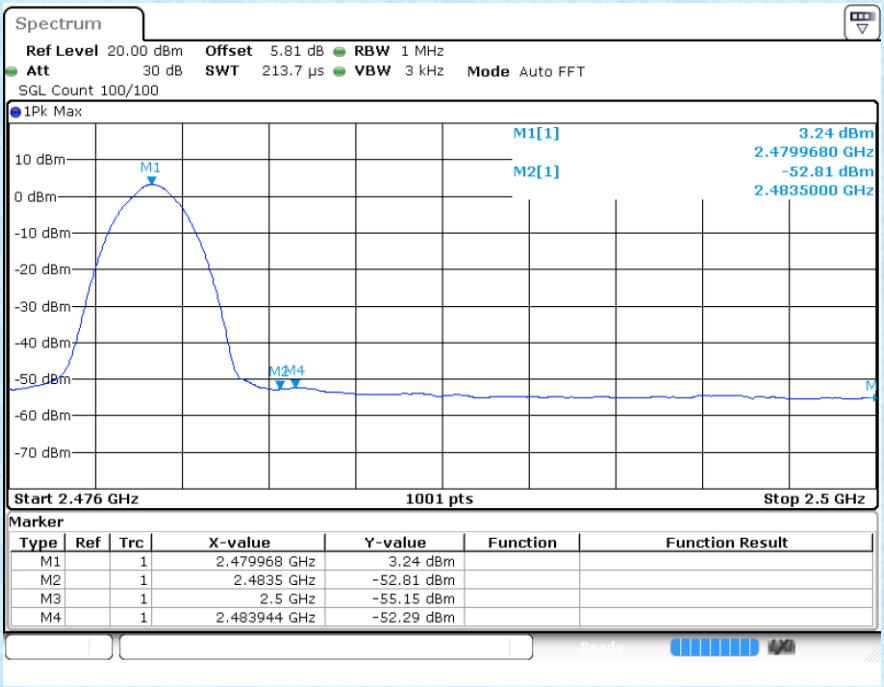
Restrict-band band-edge measurements_Hopping Off_8DPSK_Average (Low Channel)



Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (High Channel)



Restrict-band band-edge measurements_Hopping Off_8DPSK_Average (High Channel)


Spectrum
Ref Level 20.00 dBm Offset 5.81 dB RBW 1 MHz
Att 30 dB SWT 213.7 µs VBW 3 kHz Mode Auto FFT
SGL Count 100/100
1Pk Max
M1[1] 3.24 dBm
2.4799680 GHz
M2[1] -52.81 dBm
2.4835000 GHz
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
M1
M2
M4
Start 2.476 GHz
1001 pts
Stop 2.5 GHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 2.479968 GHz 3.24 dBm
M2 1 2.4835 GHz -52.81 dBm
M3 1 2.5 GHz -55.15 dBm
M4 1 2.483944 GHz -52.29 dBm

---The End---