



Appendix RF Test Data for BT

Product Name: Mini Desktop Computer

Trade Mark: Blackview

Test Model: NEX60

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Emiya Lin
Supervised by:	Simba Huang



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1 Duty Cycle

1.1 Test Result

Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor	1/T (kHz)
1-DH1	2402	31.85	4.97	2.63
1-DH1	2441	31.83	4.97	2.63
1-DH1	2480	31.99	4.95	2.63
2-DH1	2402	32.35	4.9	2.56
2-DH1	2441	32.41	4.89	2.56
2-DH1	2480	32.35	4.9	2.56
3-DH1	2402	32.36	4.9	2.56
3-DH1	2441	32.41	4.89	2.56
3-DH1	2480	32.35	4.9	2.56

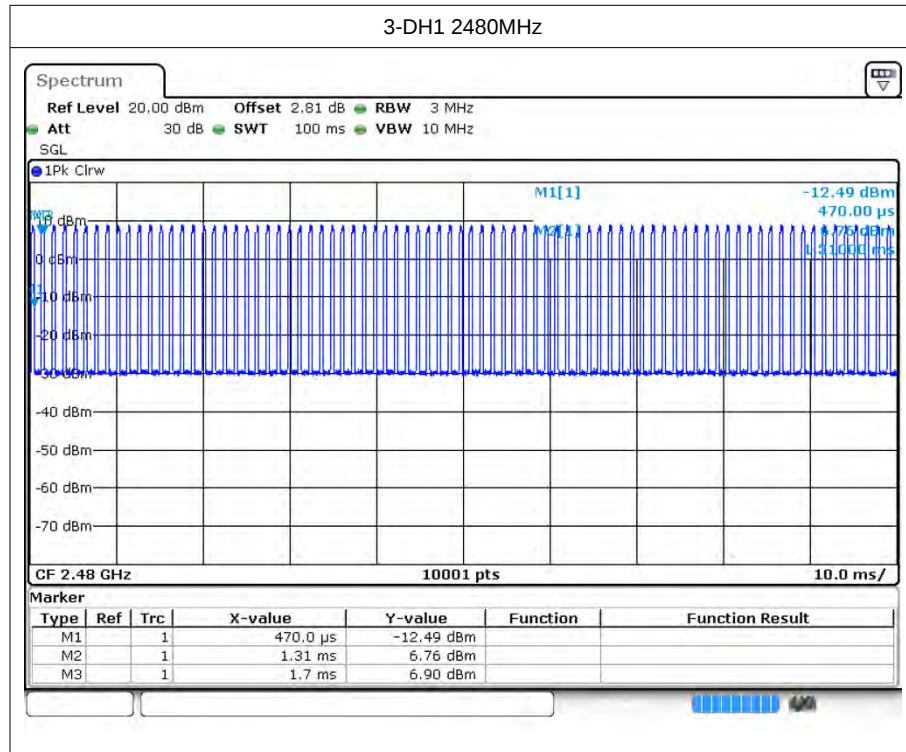
1.2 Test Graphs









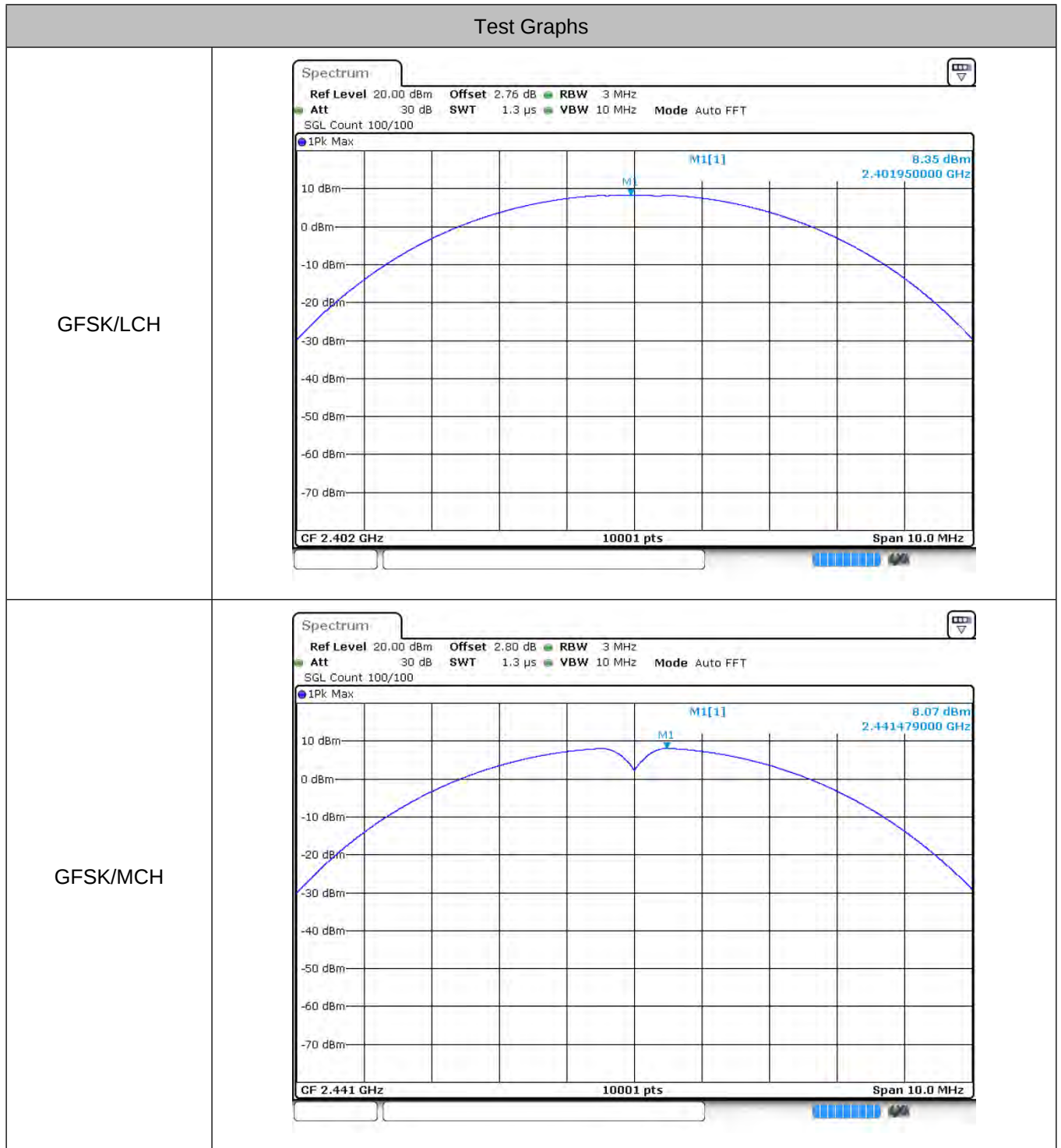


2 Maximum Conducted Peak Output Power

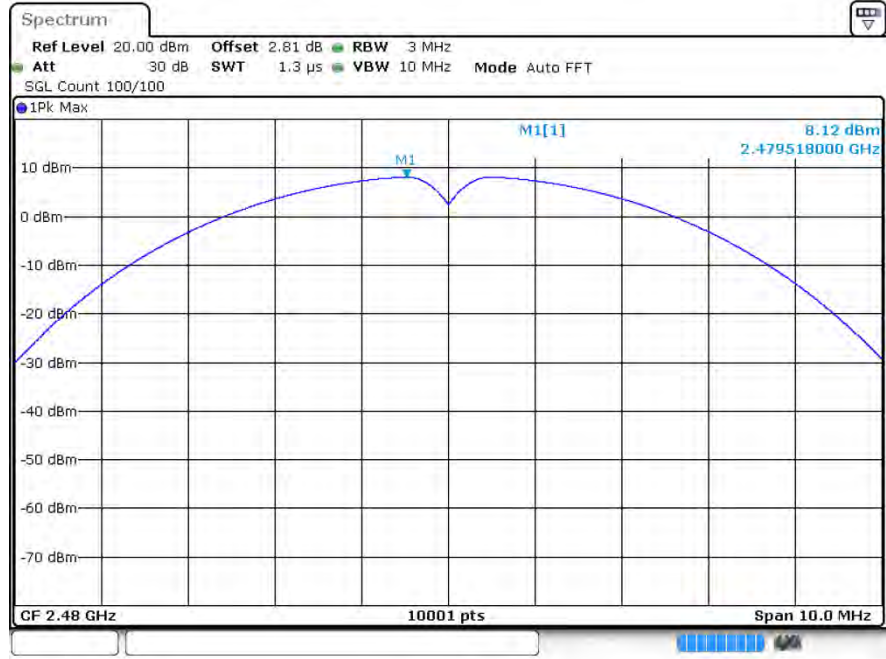
2.1 Test Result

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	8.35	21	Pass
	MCH	8.07	21	Pass
	HCH	8.12	21	Pass
$\pi/4$ DQPSK	LCH	8.34	21	Pass
	MCH	8	21	Pass
	HCH	8.25	21	Pass
8DPSK	LCH	8.43	21	Pass
	MCH	8.34	21	Pass
	HCH	7.69	21	Pass

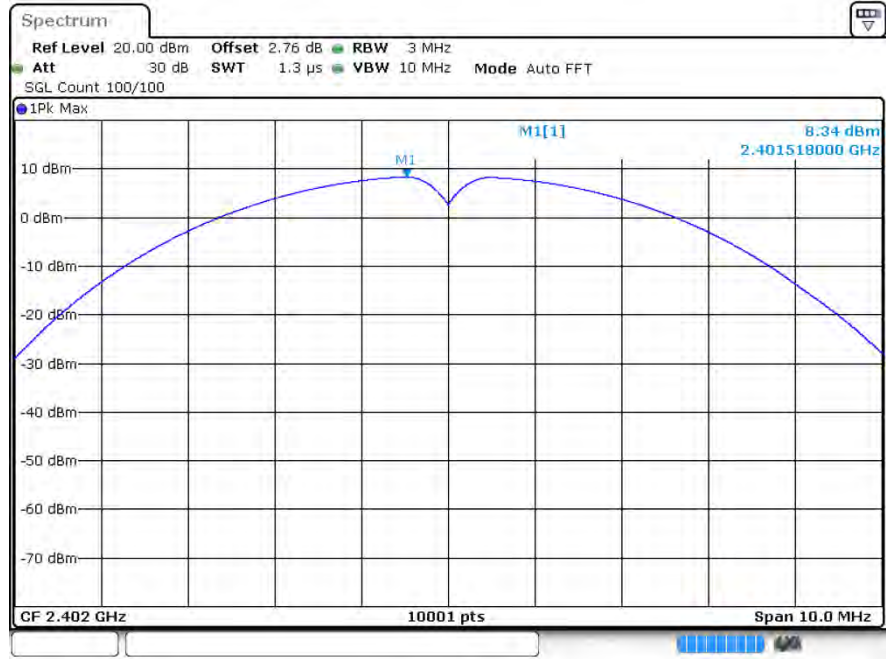
2.2 Test Graphs



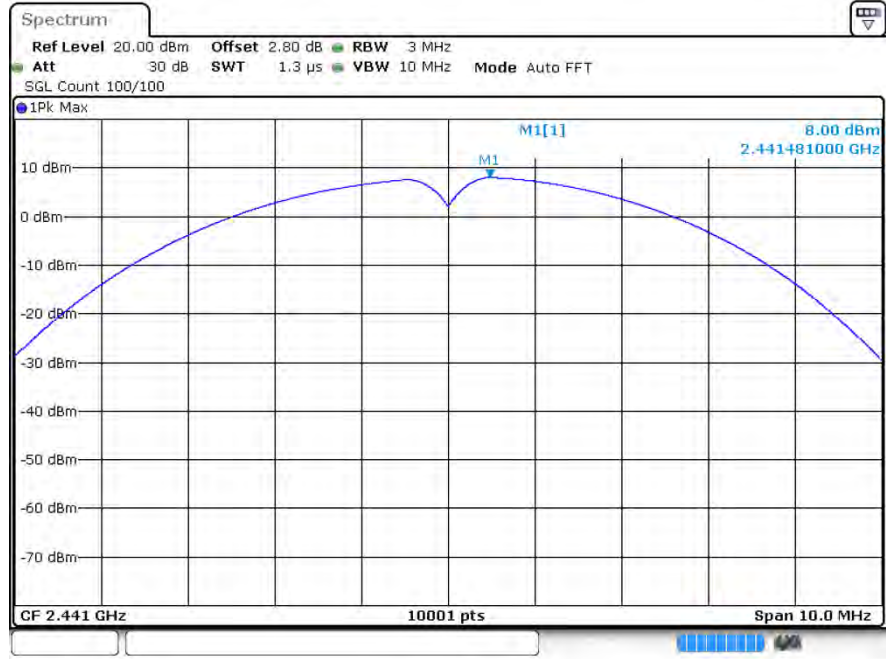
GFSK/HCH



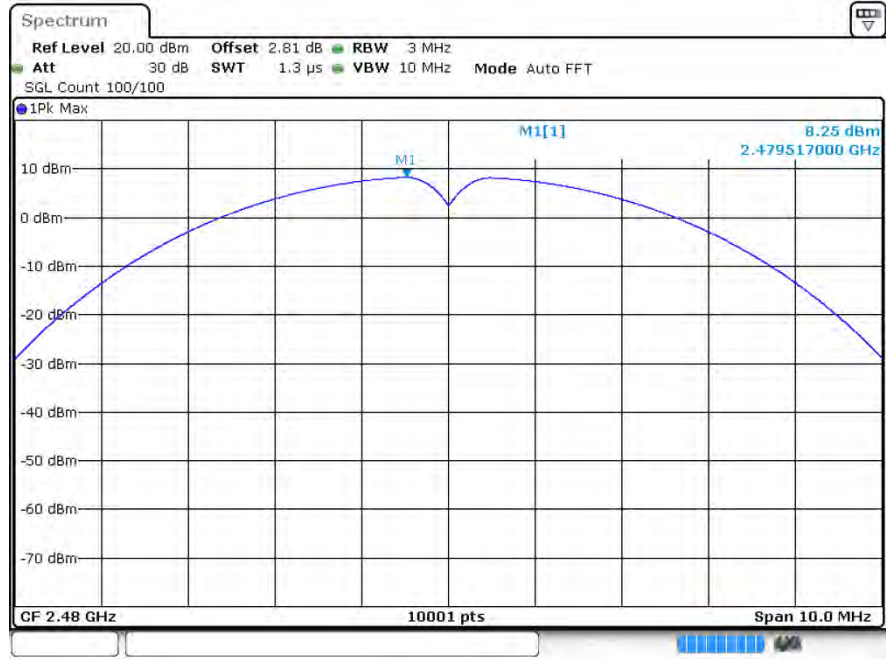
$\pi/4$ DQPSK/LCH



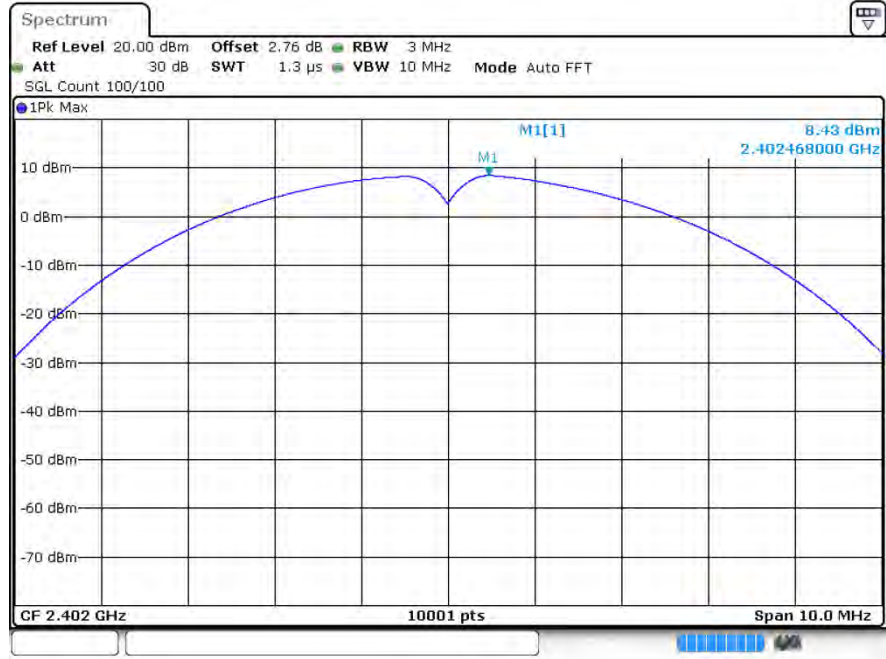
$\pi/4$ DQPSK/MCH



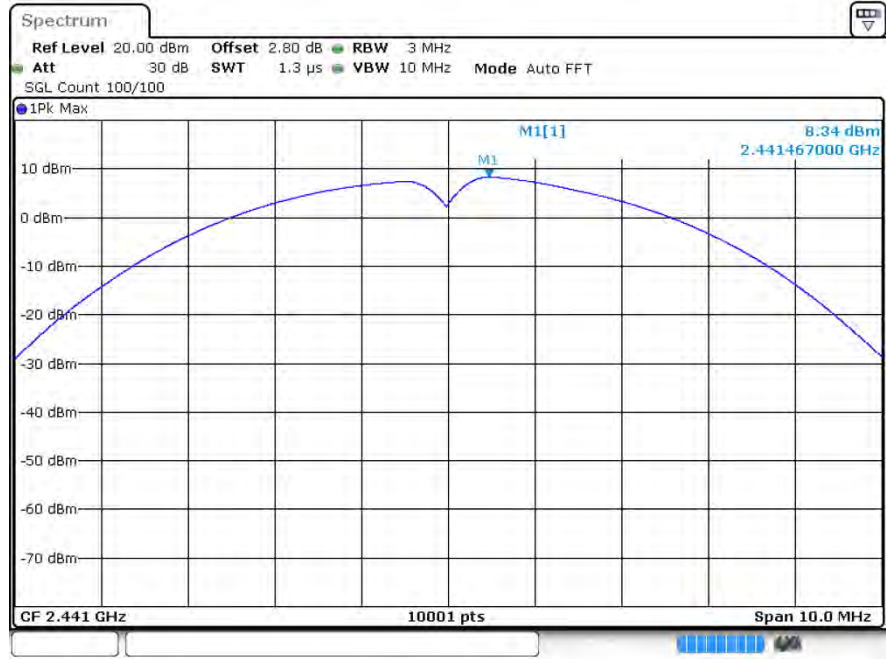
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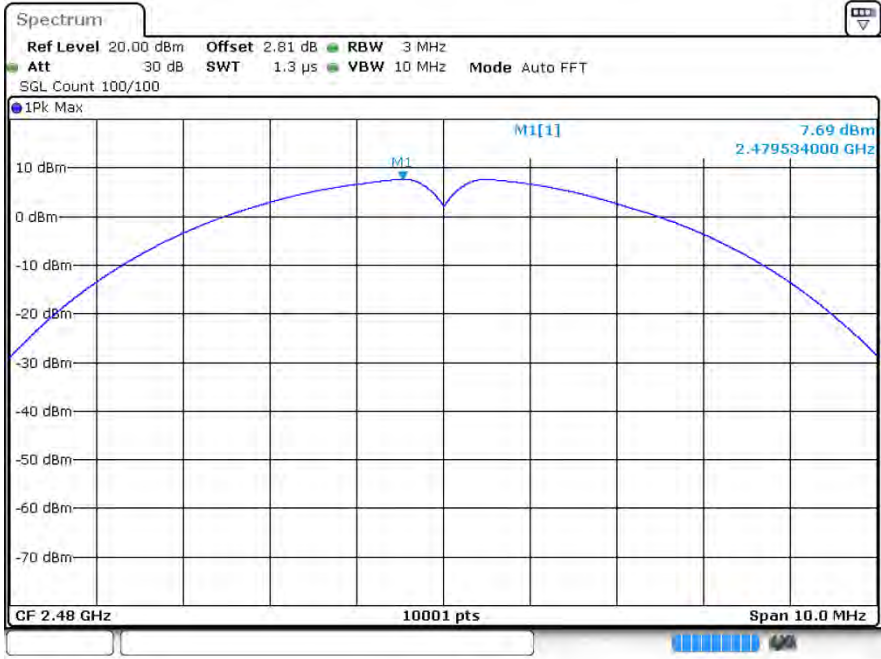
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

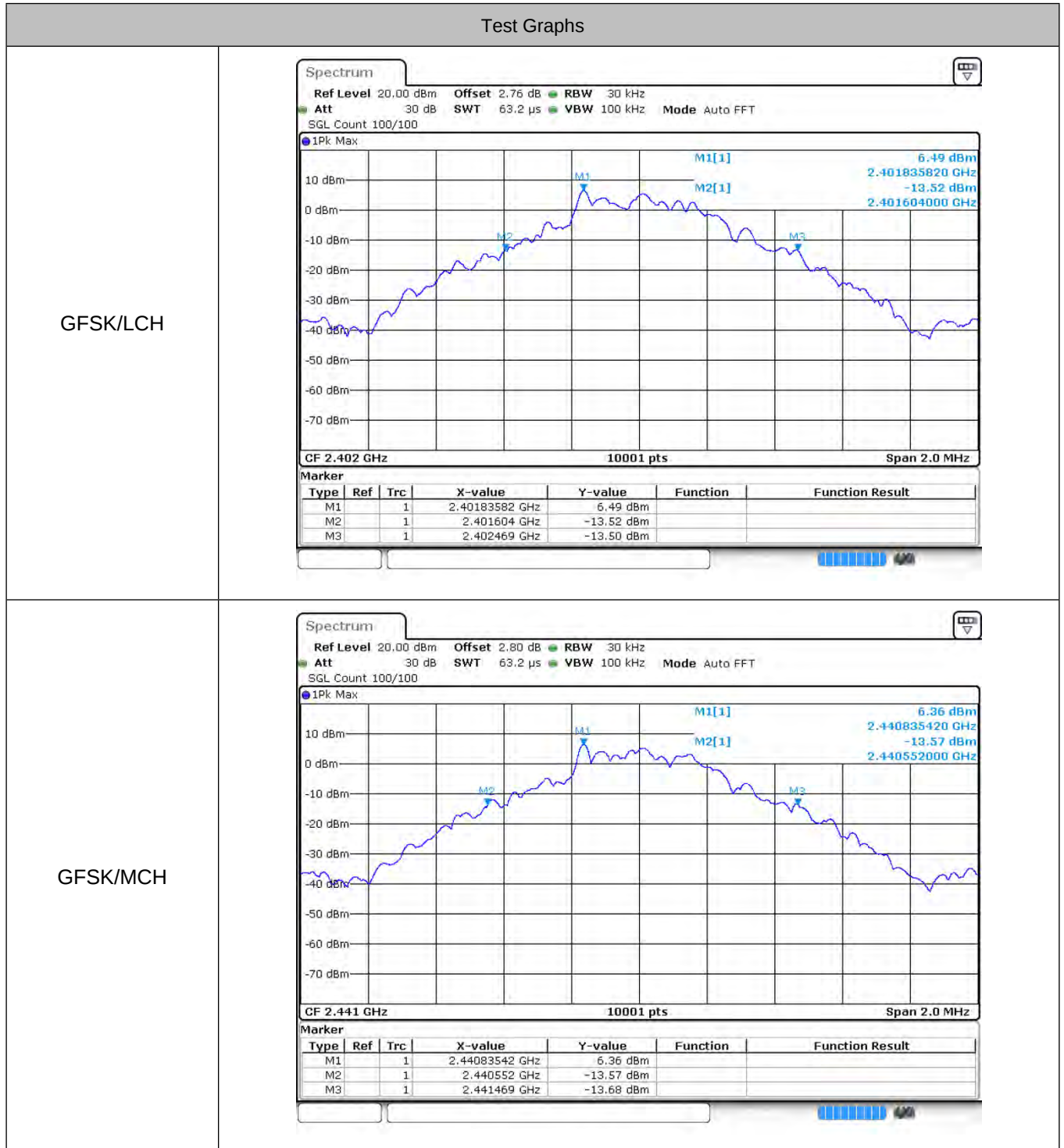


3 20dB Bandwidth

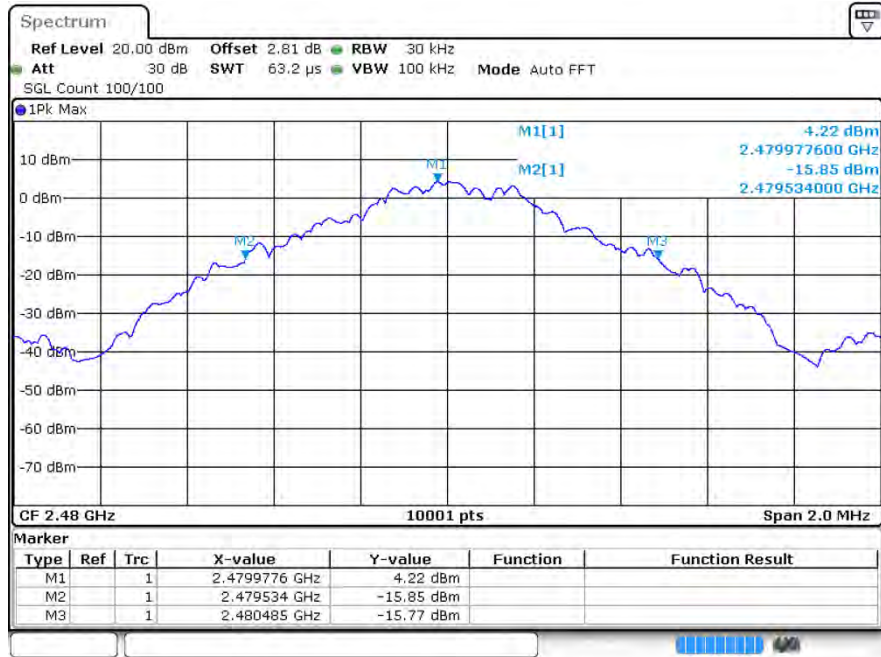
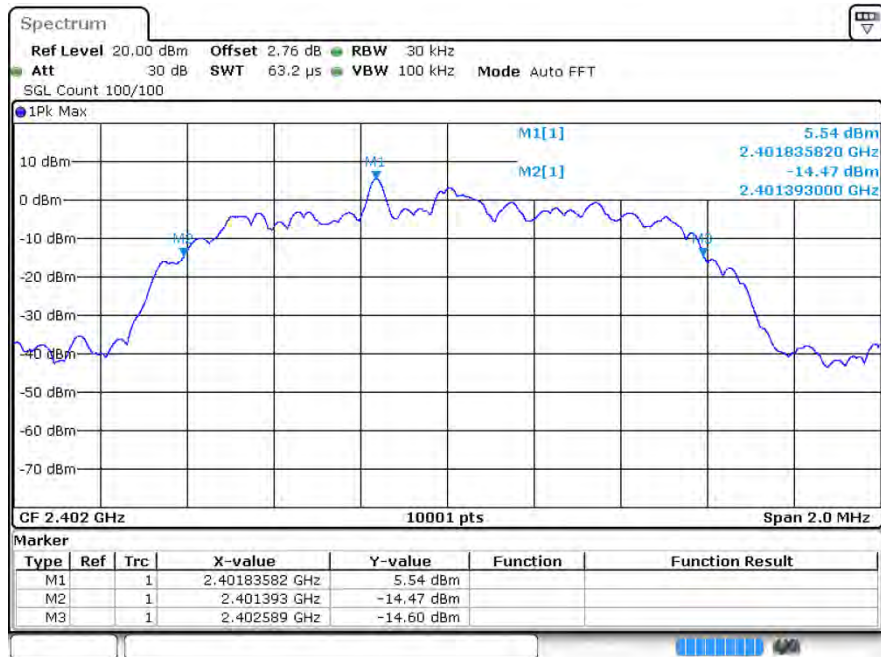
3.1 Test Result

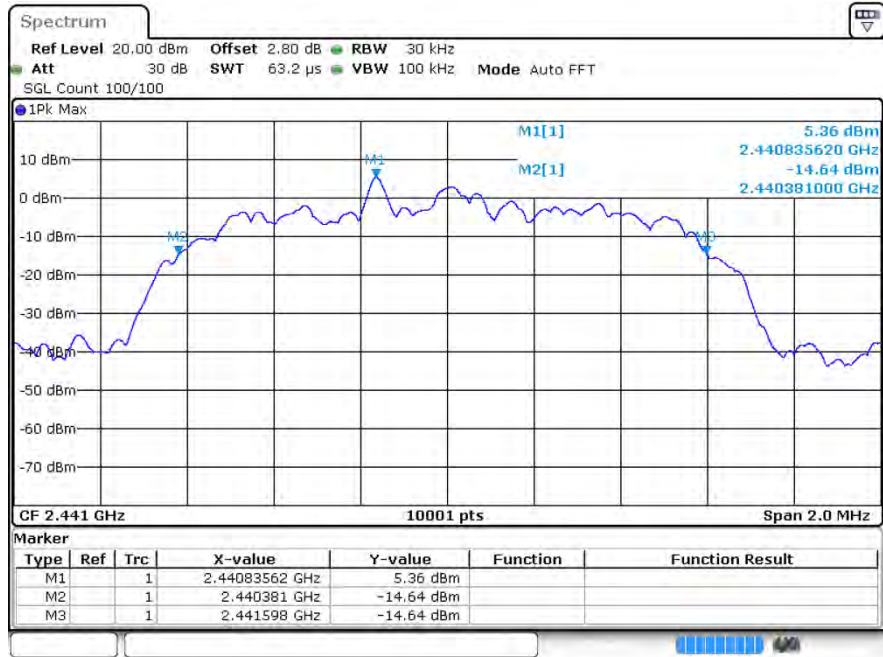
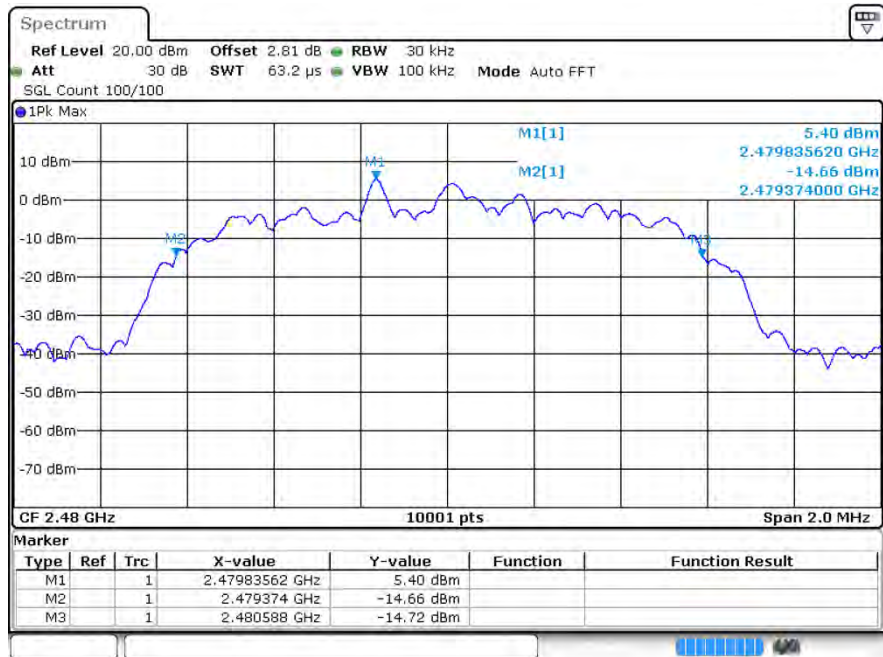
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.865	Not Specified	Pass
	MCH	0.917	Not Specified	Pass
	HCH	0.951	Not Specified	Pass
$\pi/4$ DQPSK	LCH	1.196	Not Specified	Pass
	MCH	1.217	Not Specified	Pass
	HCH	1.214	Not Specified	Pass
8DPSK	LCH	1.214	Not Specified	Pass
	MCH	1.206	Not Specified	Pass
	HCH	1.205	Not Specified	Pass

3.2 Test Graphs

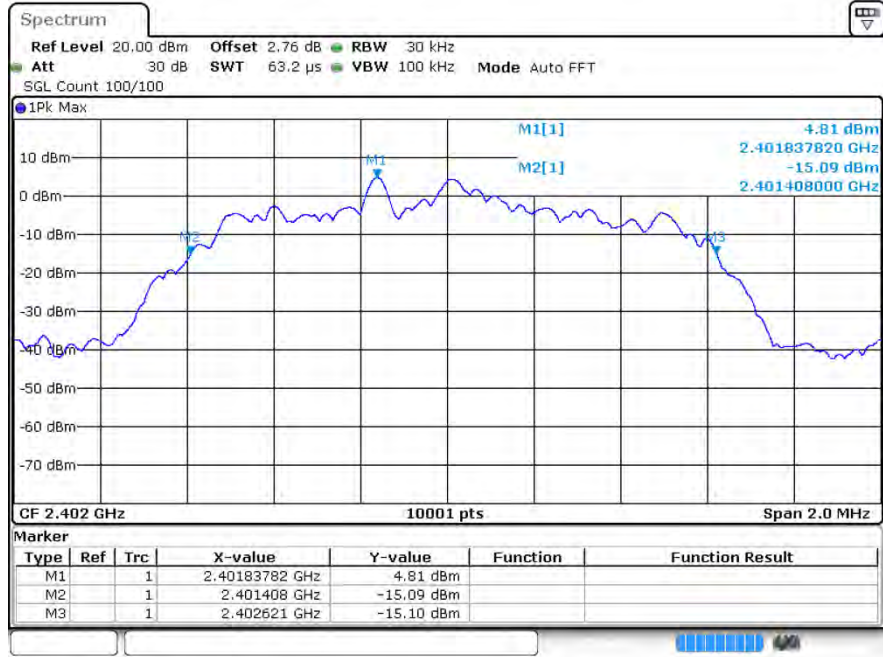


GFSK/HCH

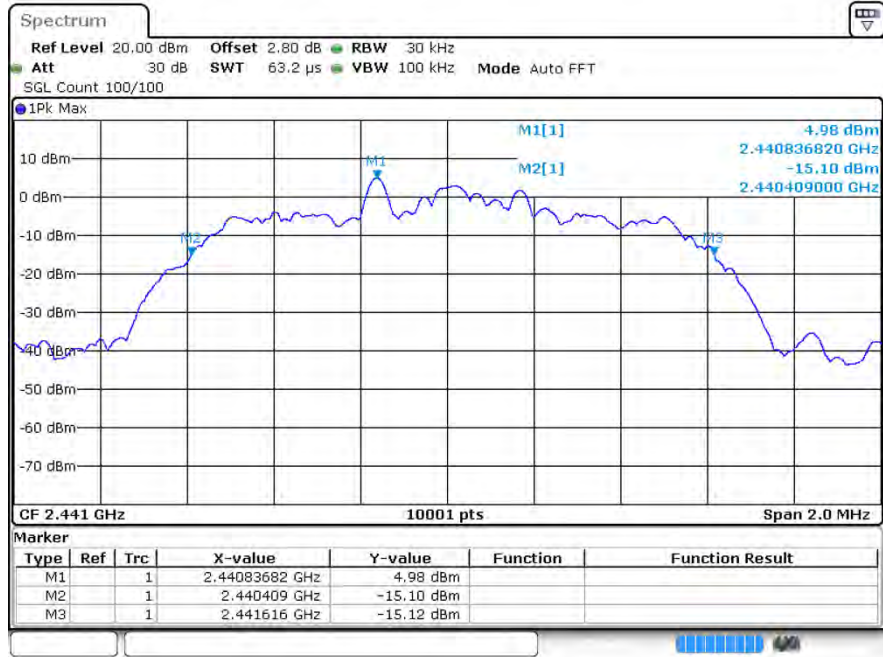

 π /4DQPSK/LCH


$\pi/4$ DQPSK/MCH

 $\pi/4$ DQPSK/HCH


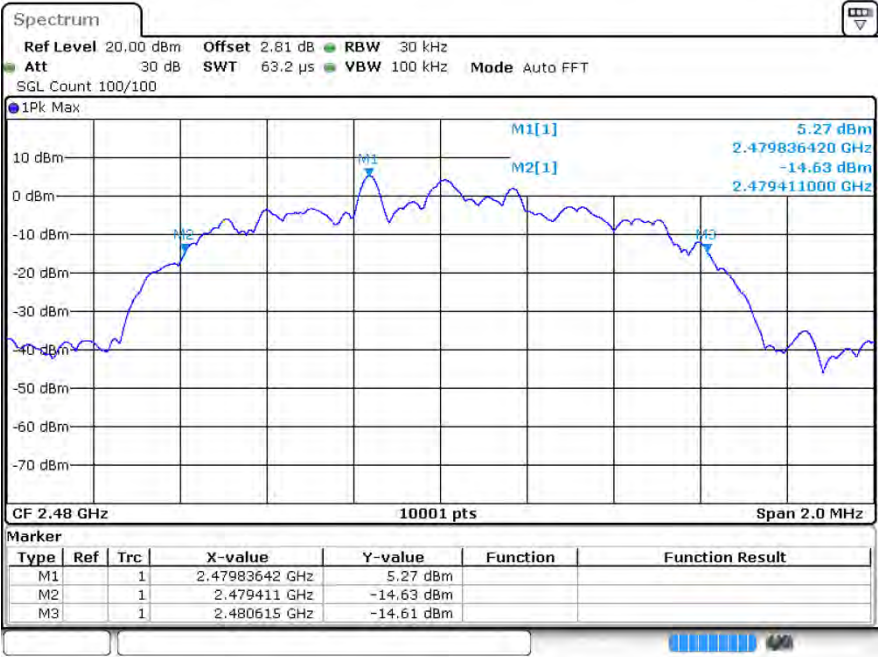
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

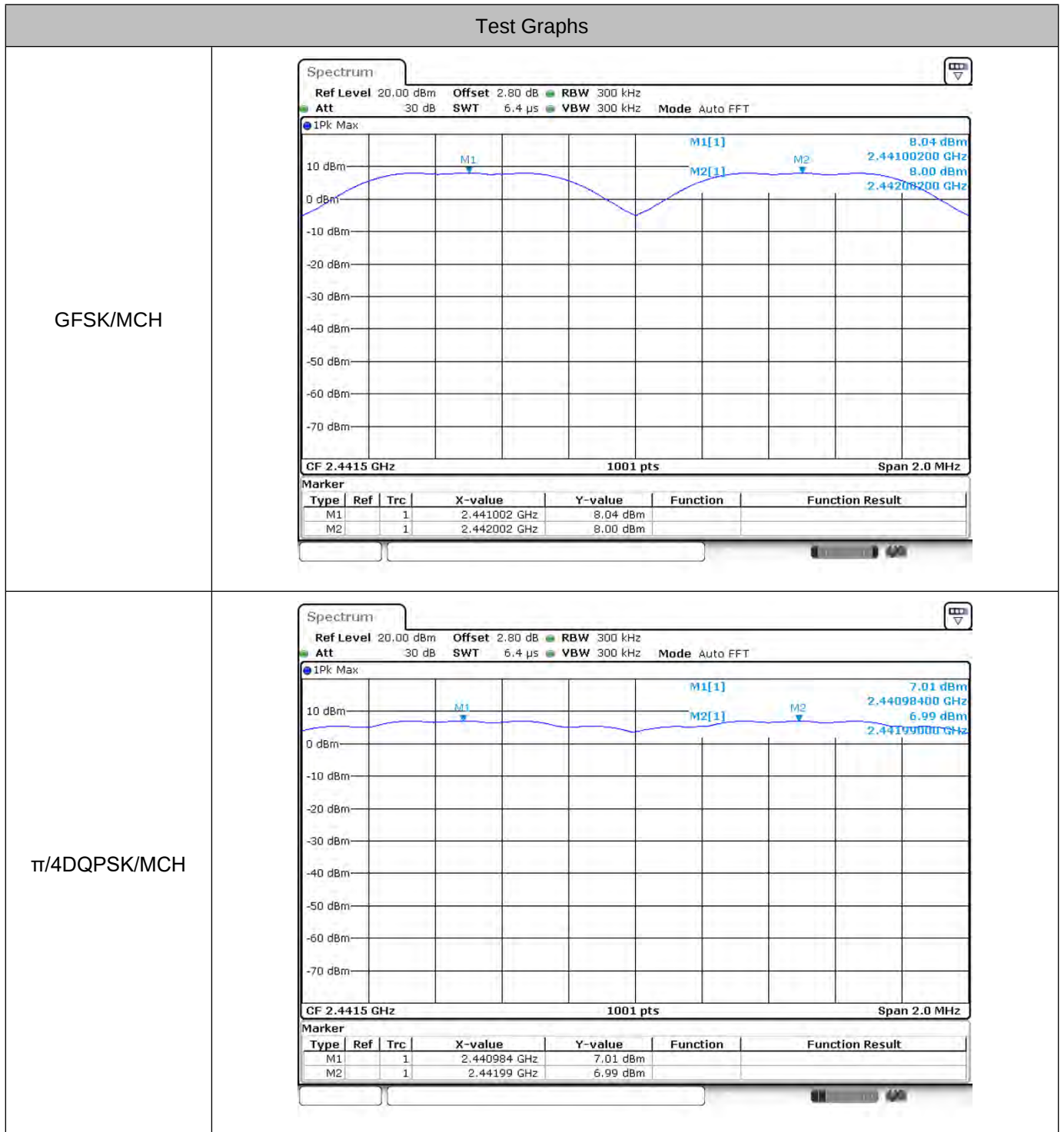


4 Carrier Frequency Separation

4.1 Test Result

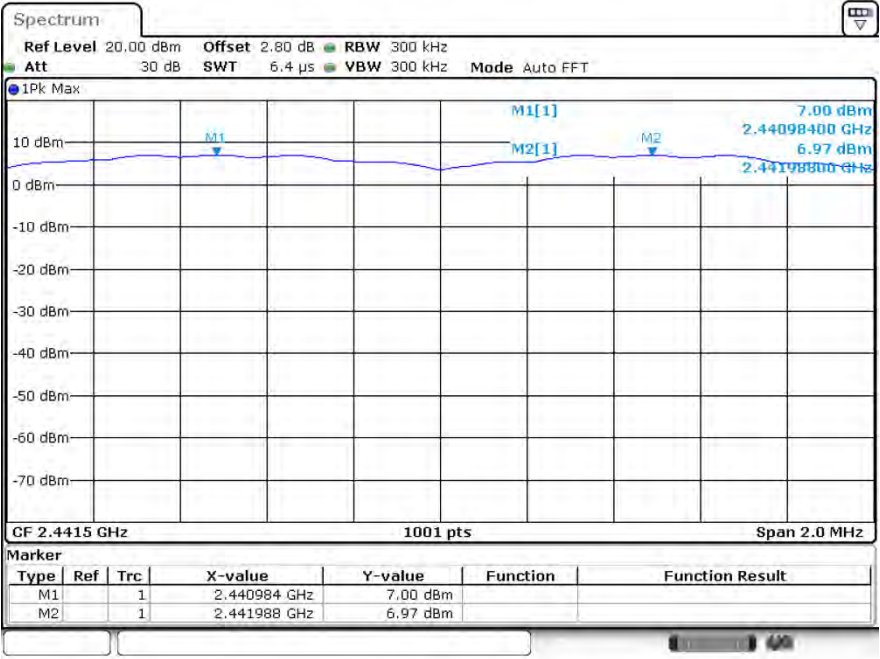
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	1	0.611	Pass
$\pi/4$ DQPSK	MCH	1.006	0.811	Pass
8DPSK	MCH	1.004	0.804	Pass

4.2 Test Graphs





8DPSK/MCH

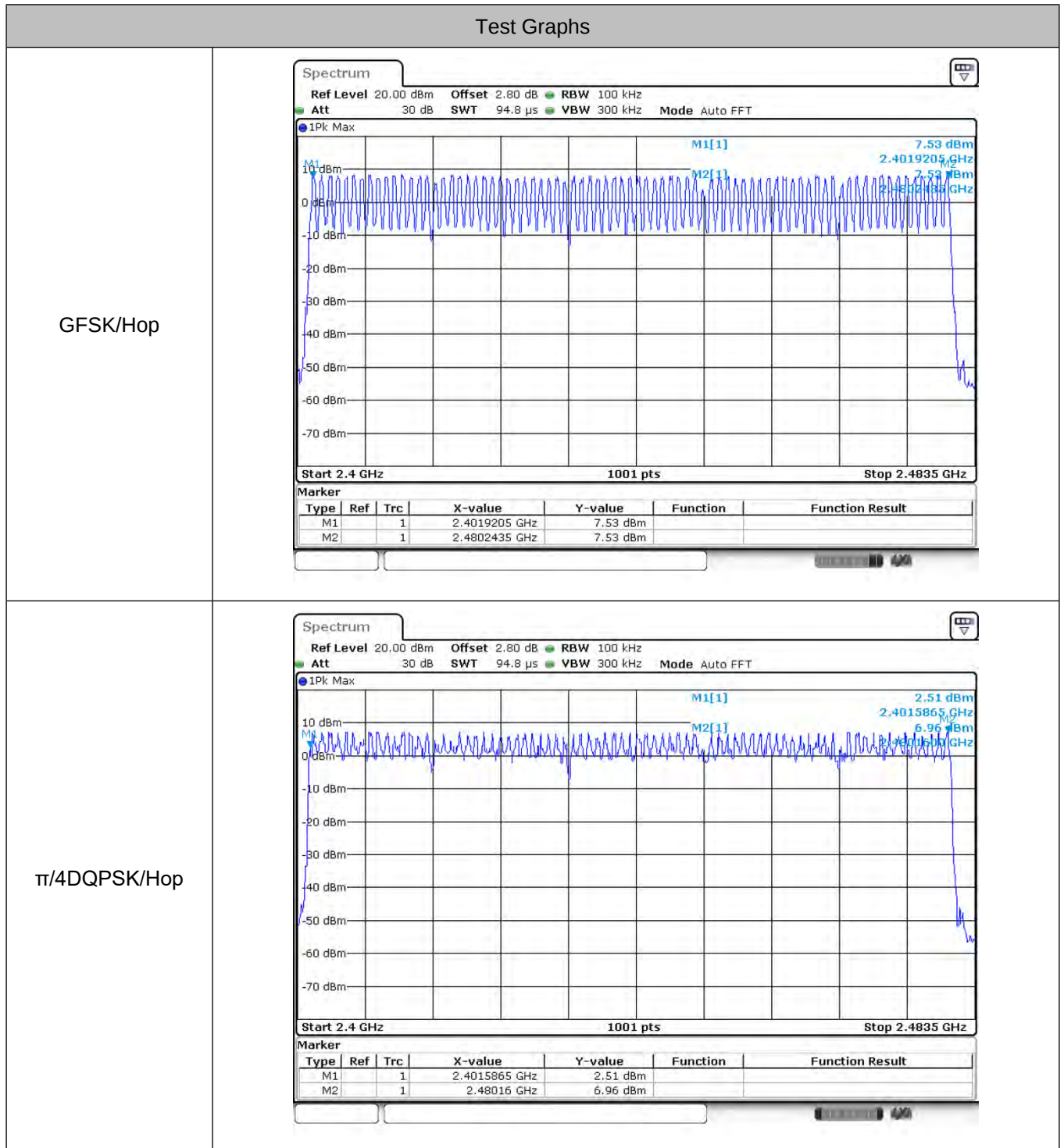


5 Hopping Channel Number

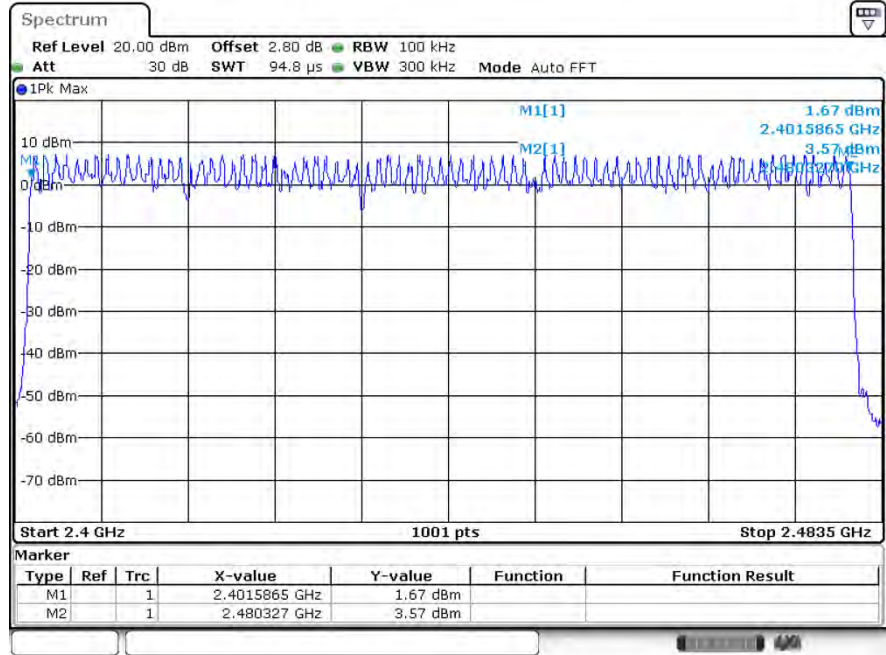
5.1 Test Result

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

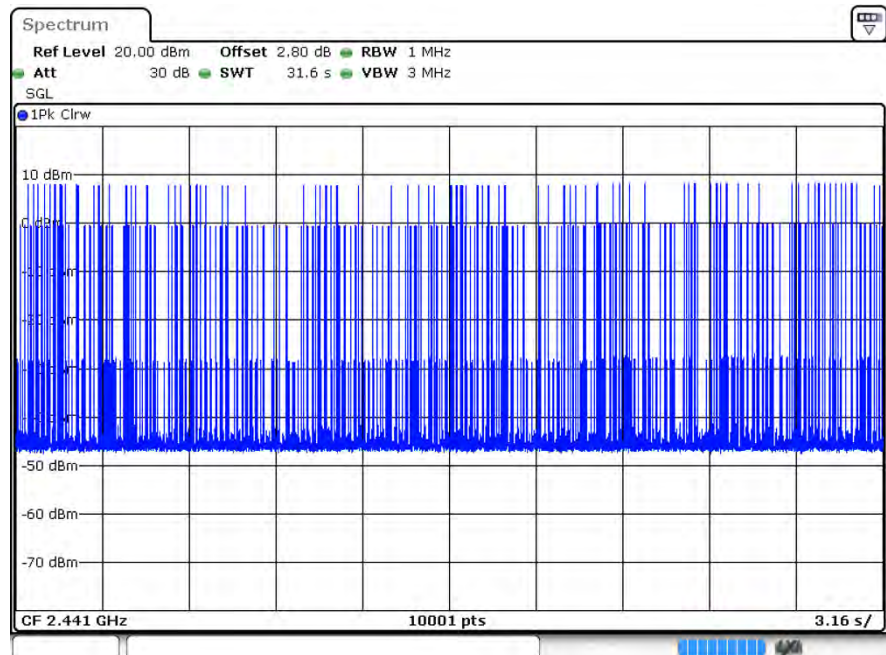
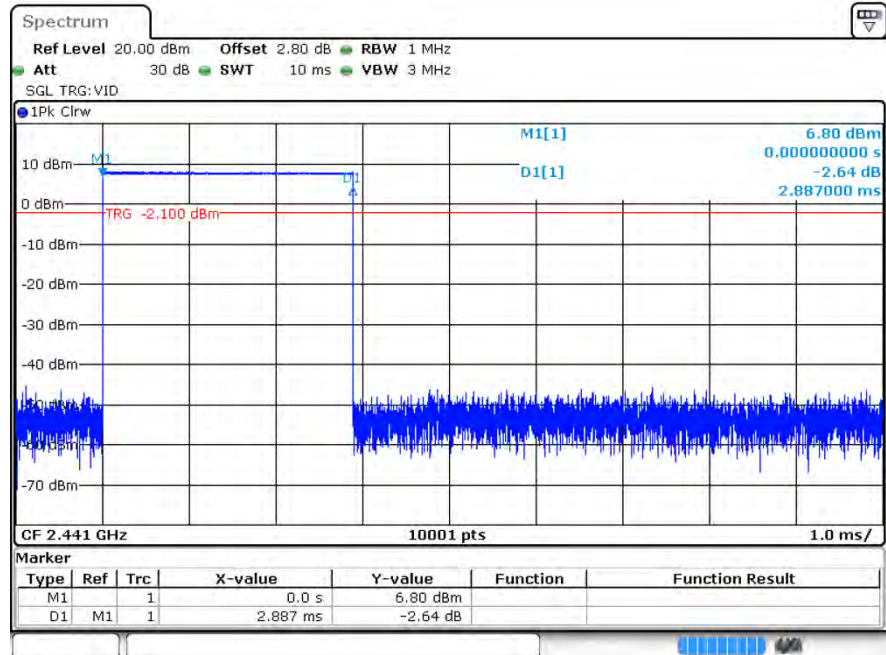
6.1 Test Result

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Limit [s]	Verdict
GFSK	DH5	MCH	2.887	100	288.7	0.4	Pass
$\pi/4$ DQPSK	2DH5	MCH	2.892	103	297.876	0.4	Pass
8DPSK	3DH5	MCH	2.894	91	263.354	0.4	Pass

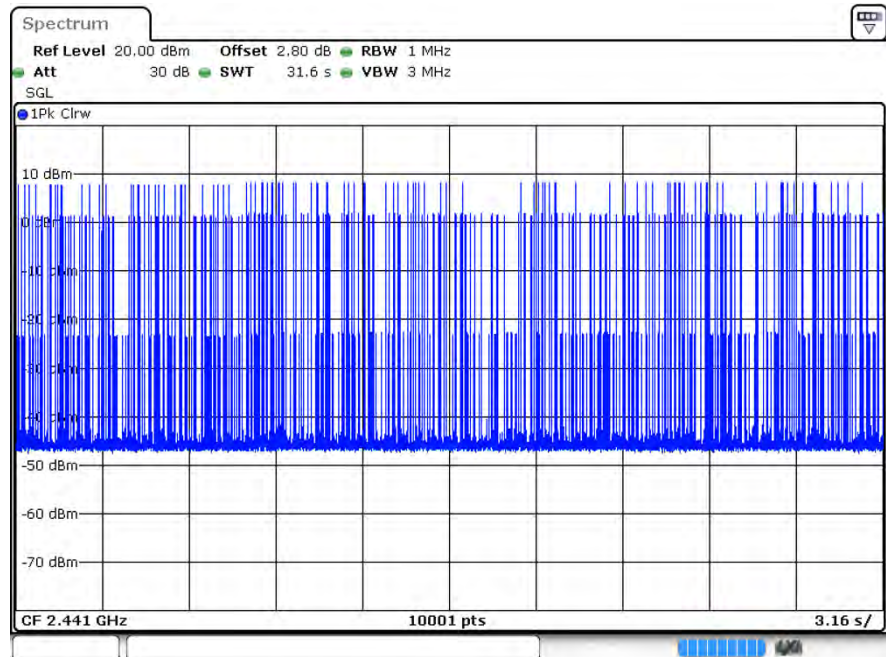
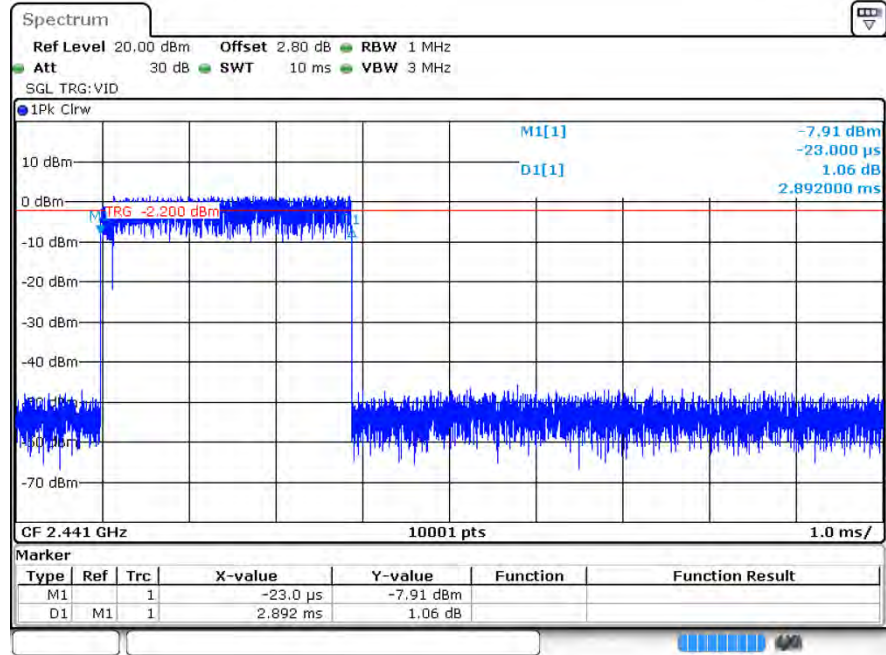
6.2 Test Graphs

Test Graphs

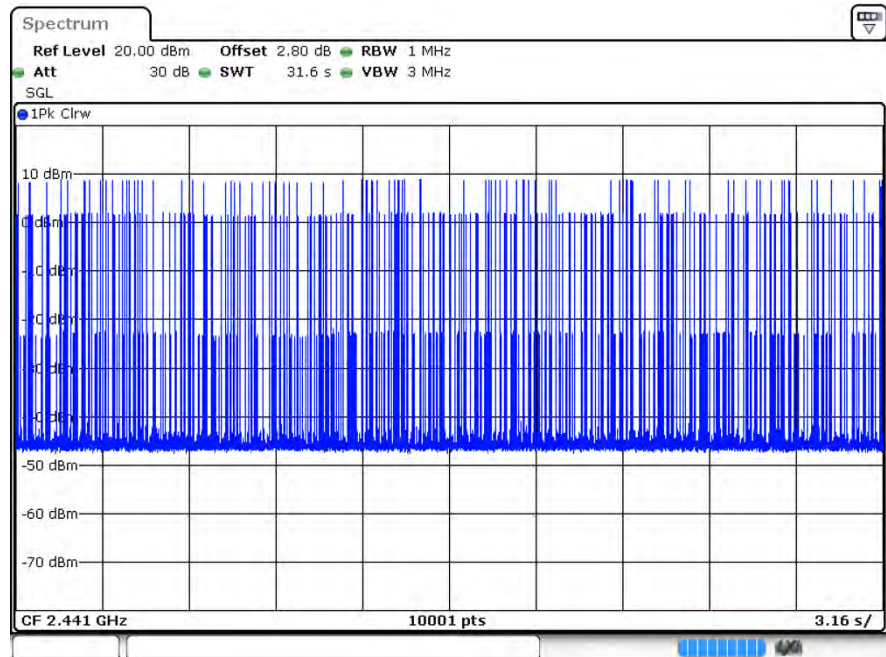
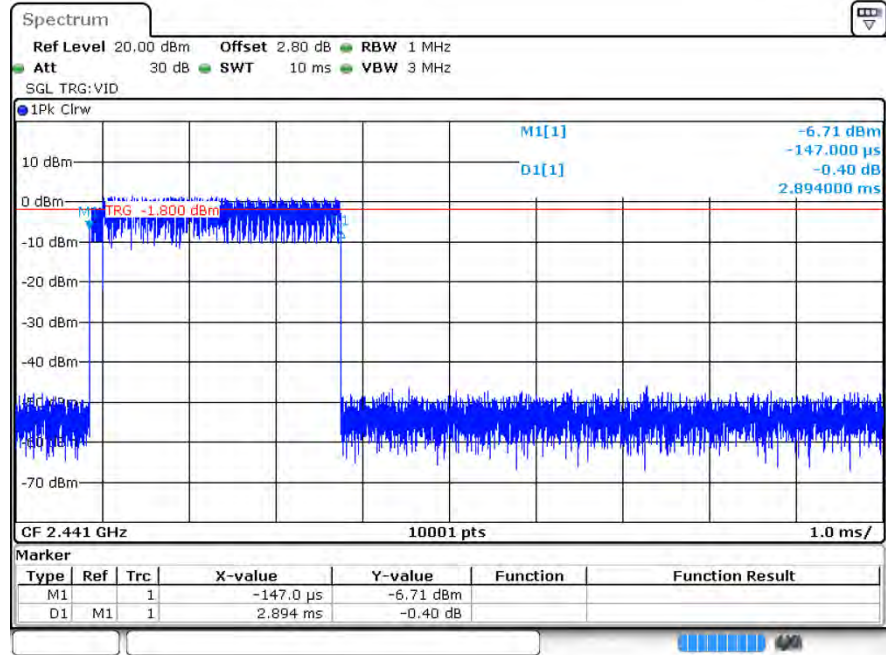
GFSK_DH5/MCH



$\pi/4$ DQPSK
_2DH5/MCH



8DPSK_3DH5/MCH

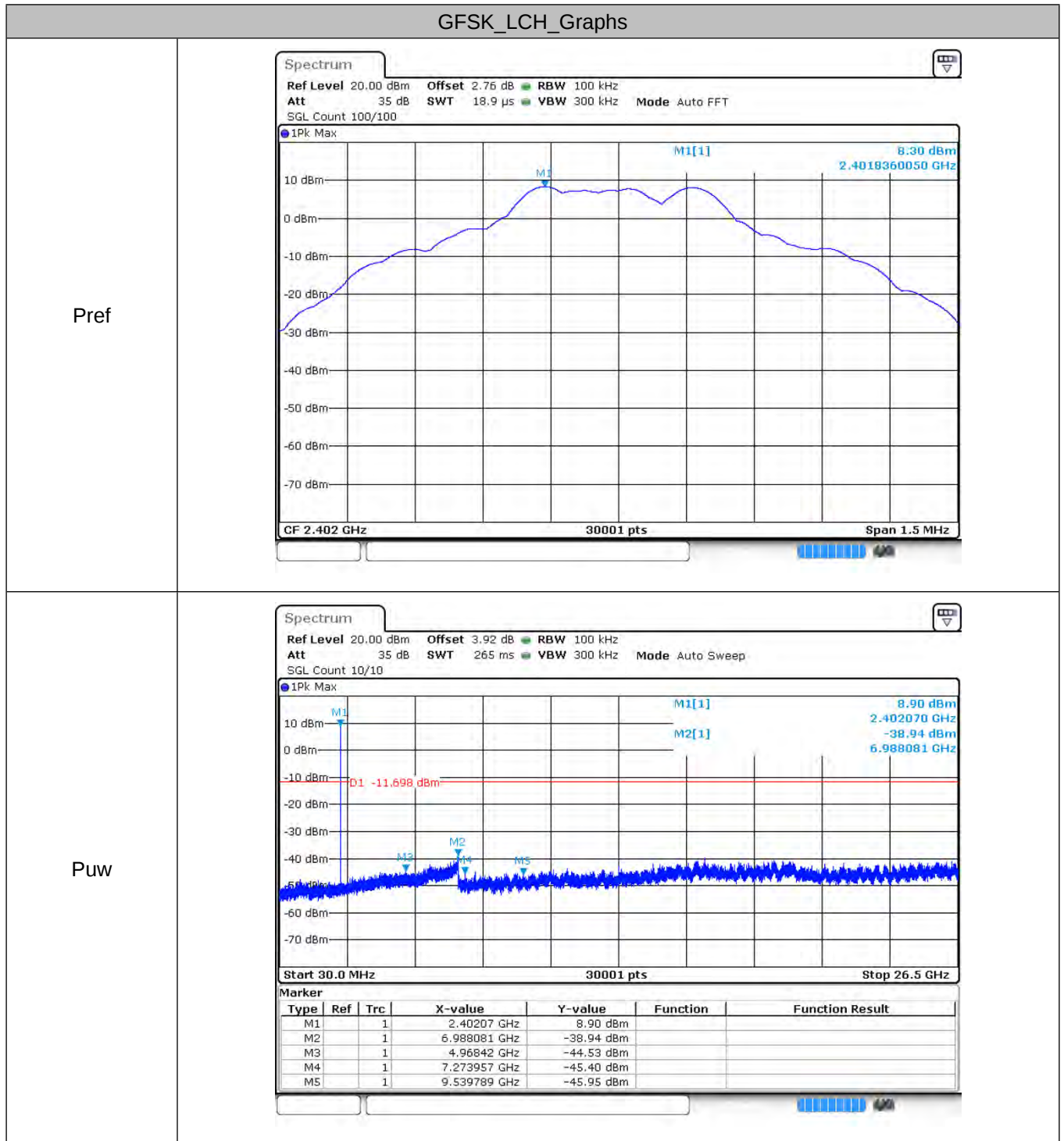


7 RF Conducted Spurious Emissions

7.1 Test Result

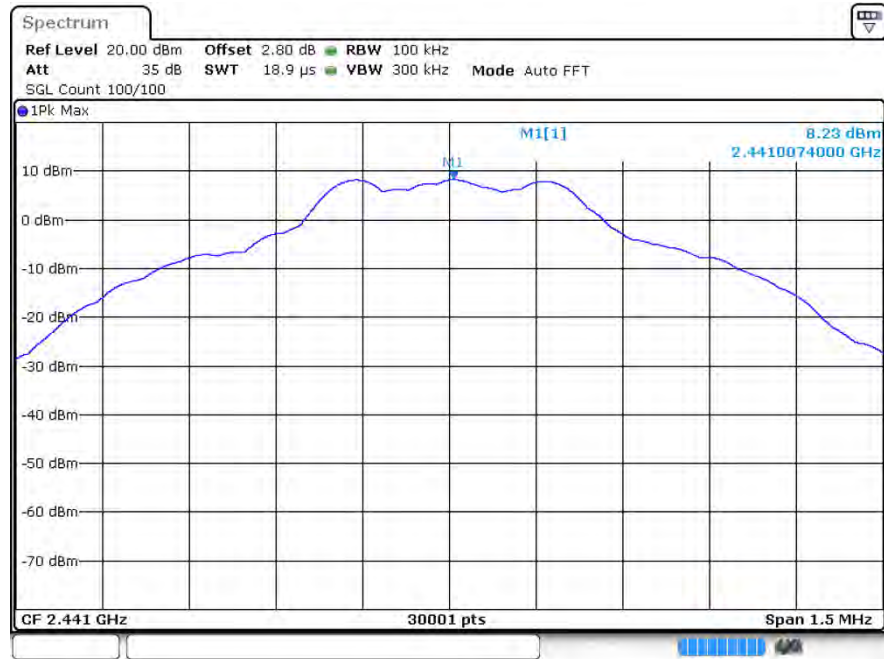
Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-47.23	-20	Pass
	MCH	-47.18	-20	Pass
	HCH	-48	-20	Pass
$\pi/4$ DQPSK	LCH	-46.28	-20	Pass
	MCH	-46.53	-20	Pass
	HCH	-47.46	-20	Pass
8DPSK	LCH	-46.92	-20	Pass
	MCH	-45.73	-20	Pass
	HCH	-46.83	-20	Pass

7.2 Test Graphs

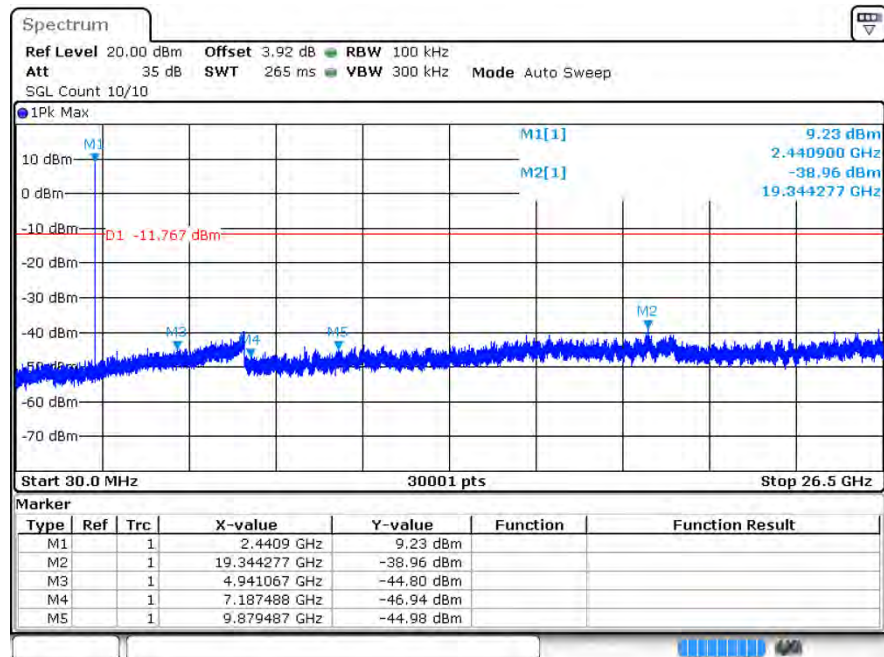


GFSK_MCH_Graphs

Pref

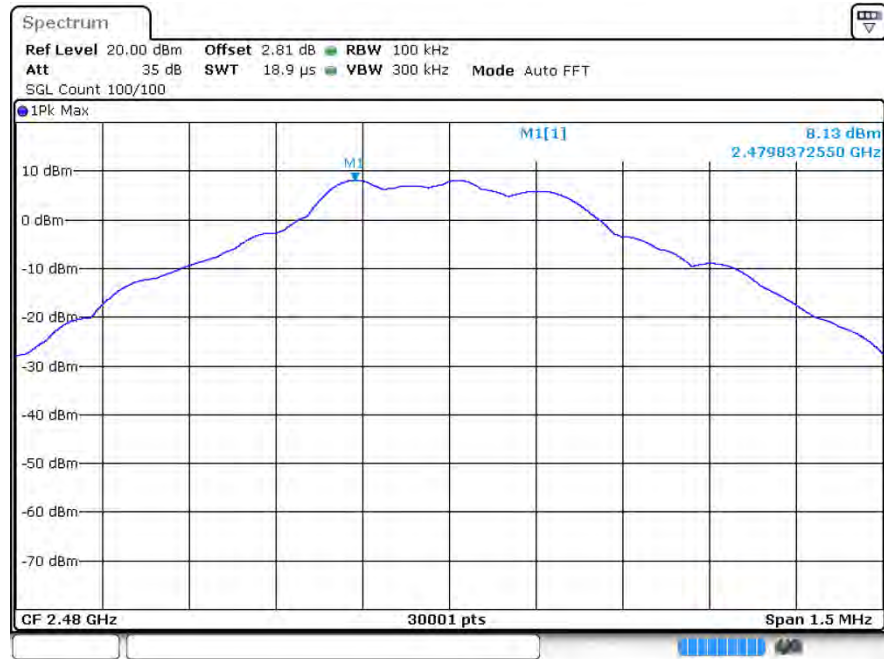


Puw

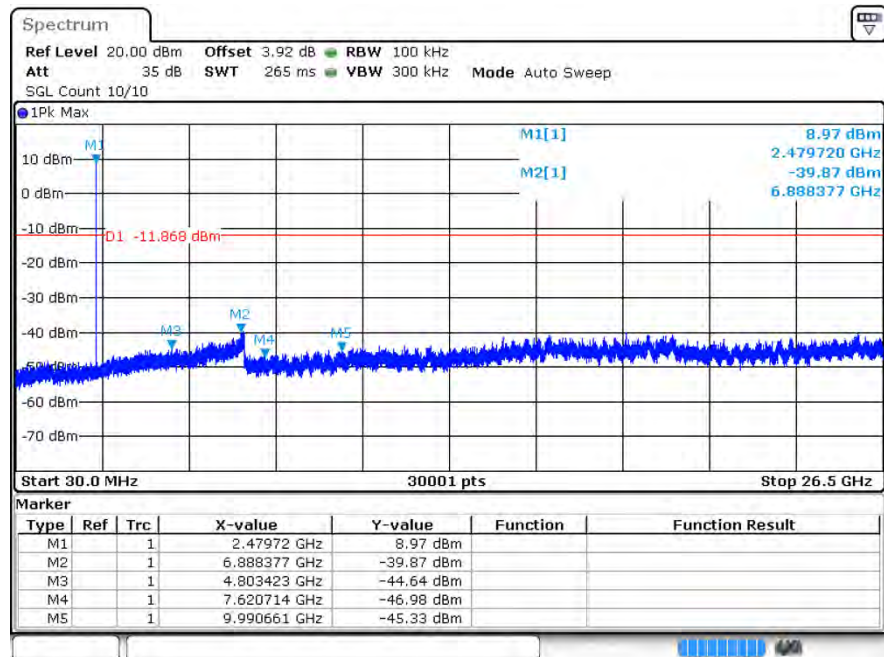


GFSK_HCH_Graphs

Pref

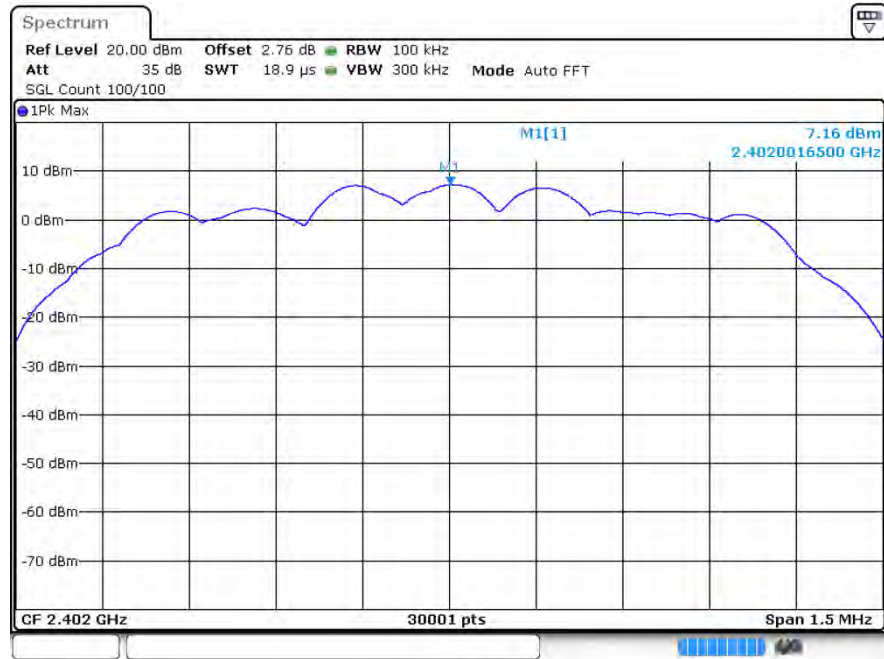


Puw

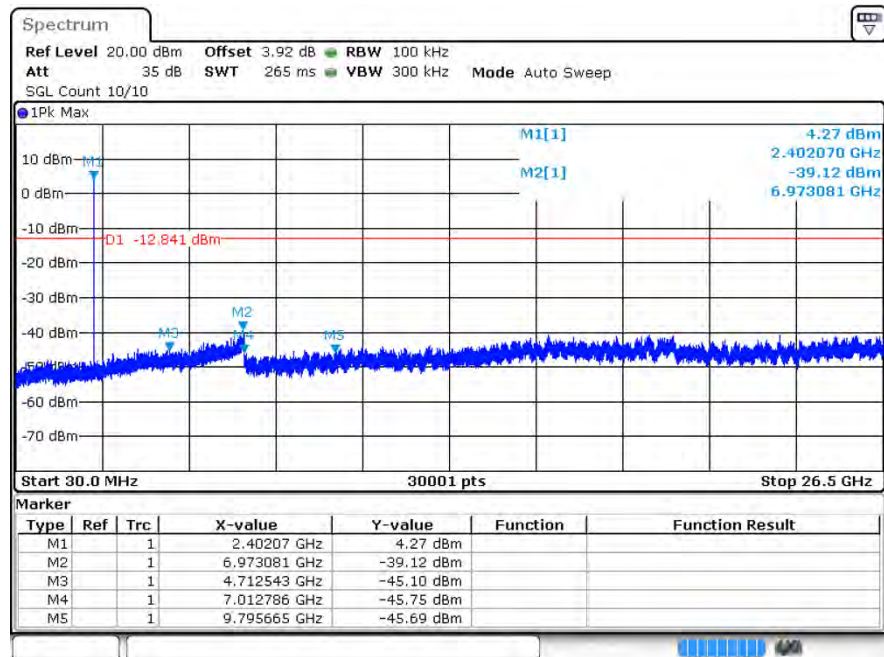


$\pi/4$ DQPSK_LCH_Graphs

Pref

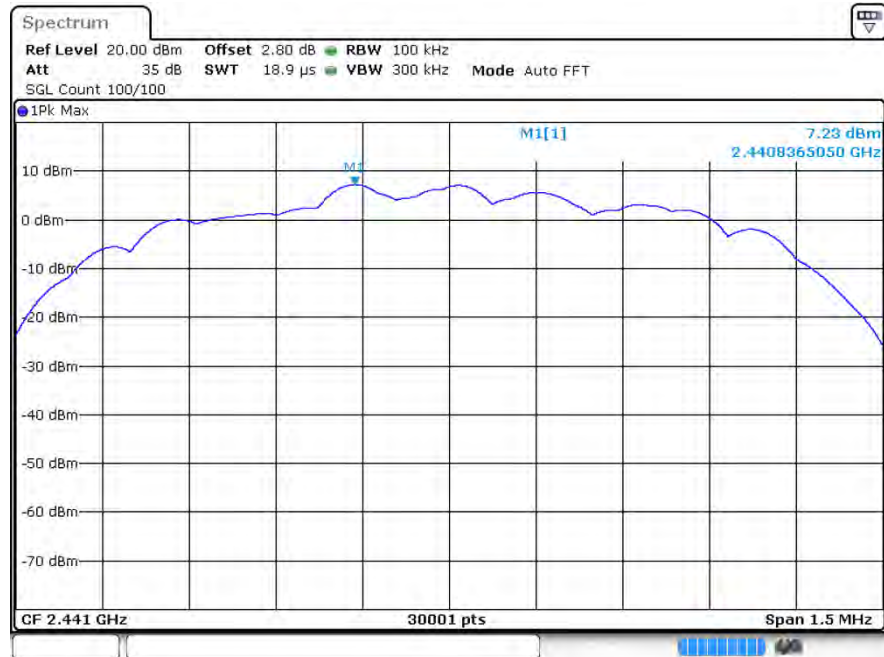


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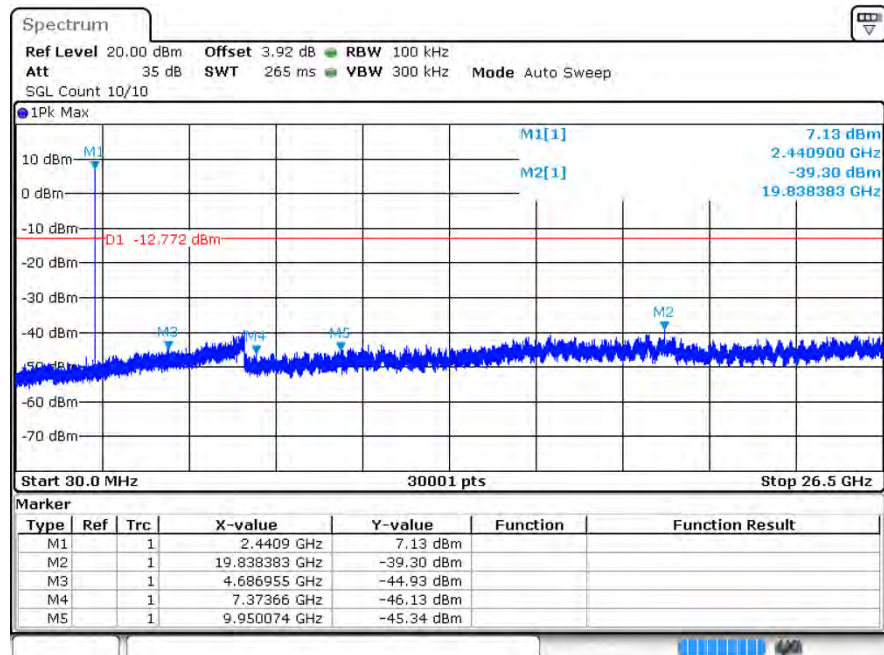


$\pi/4$ DQPSK_MCH_Graphs

Pref

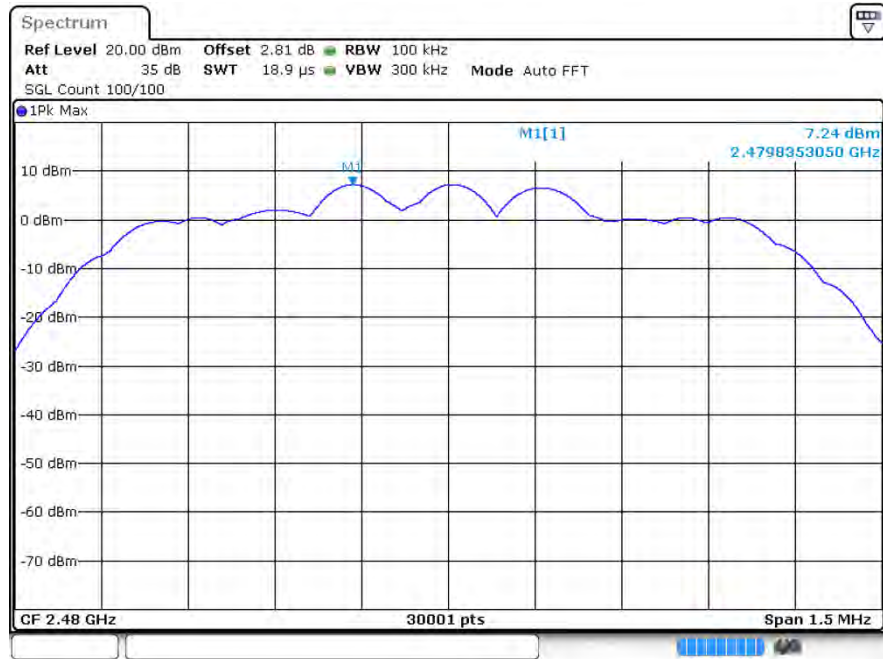


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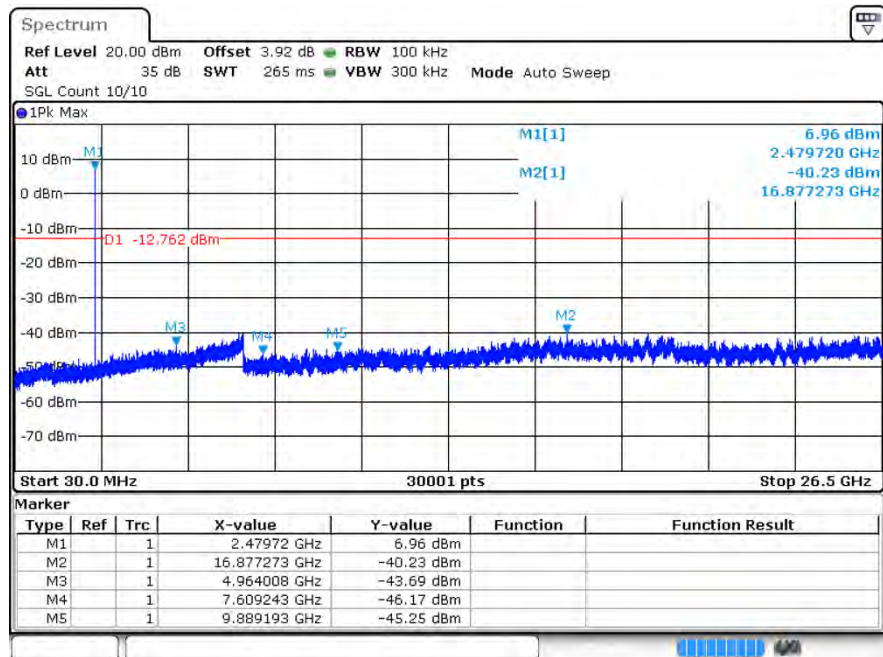


$\pi/4$ DQPSK_HCH_Graphs

Pref

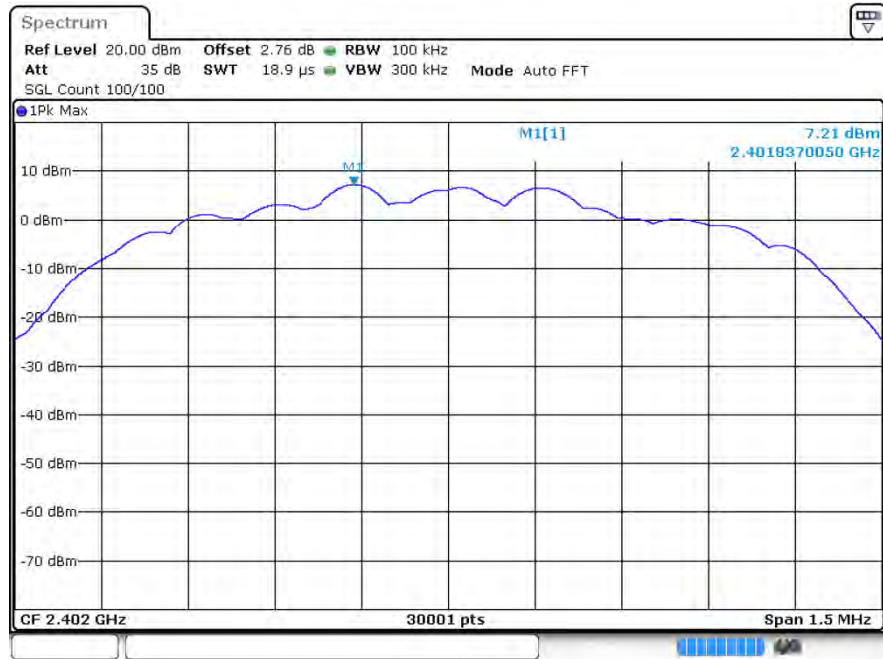


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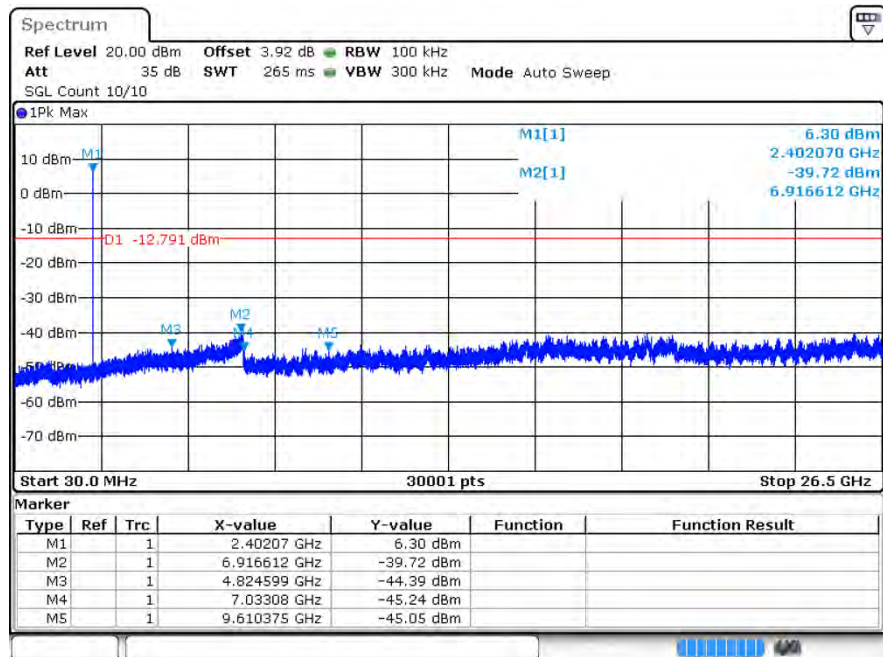


8DPSK_LCH_Graphs

Pref

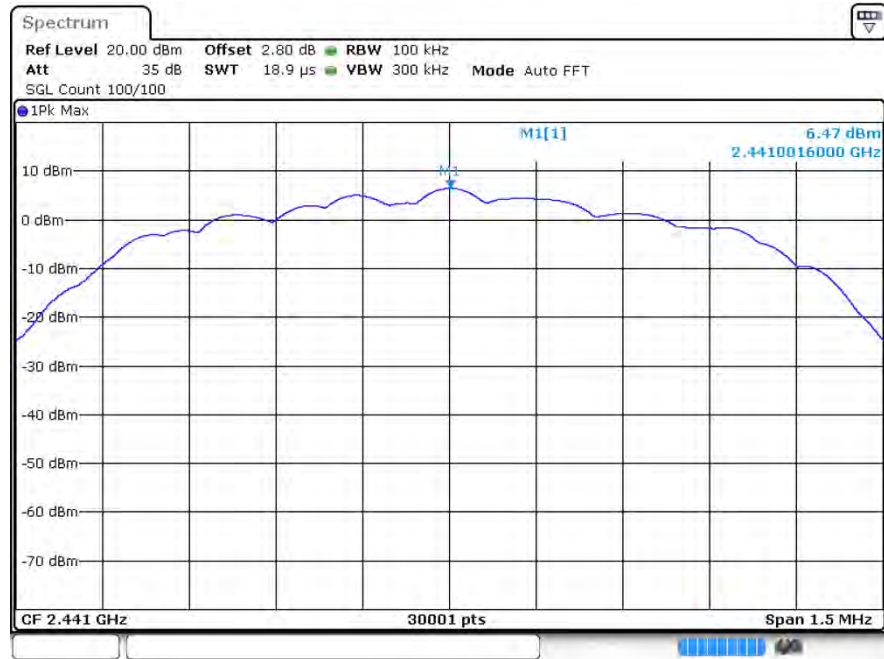


Puw

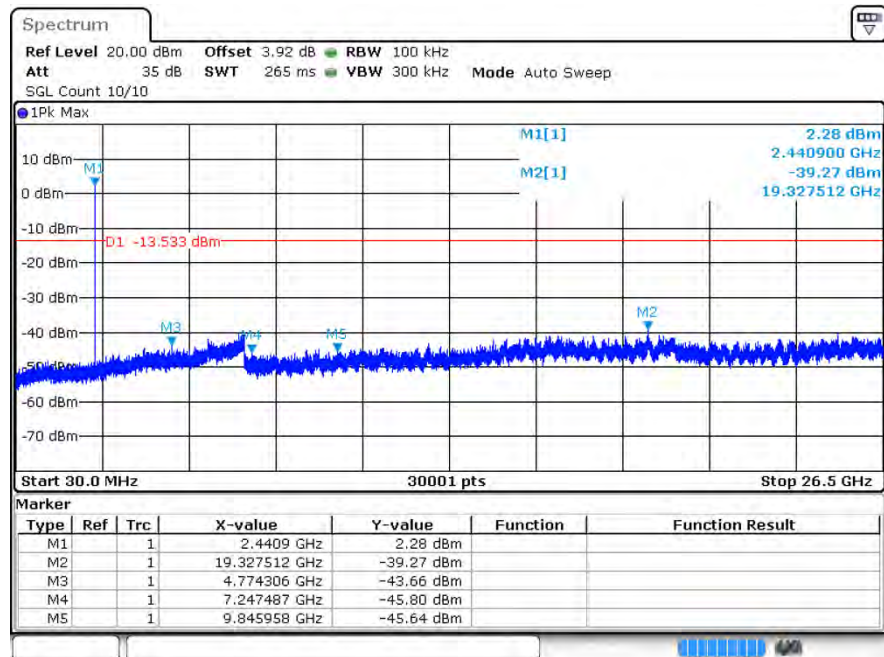


8DPSK_MCH_Graphs

Pref

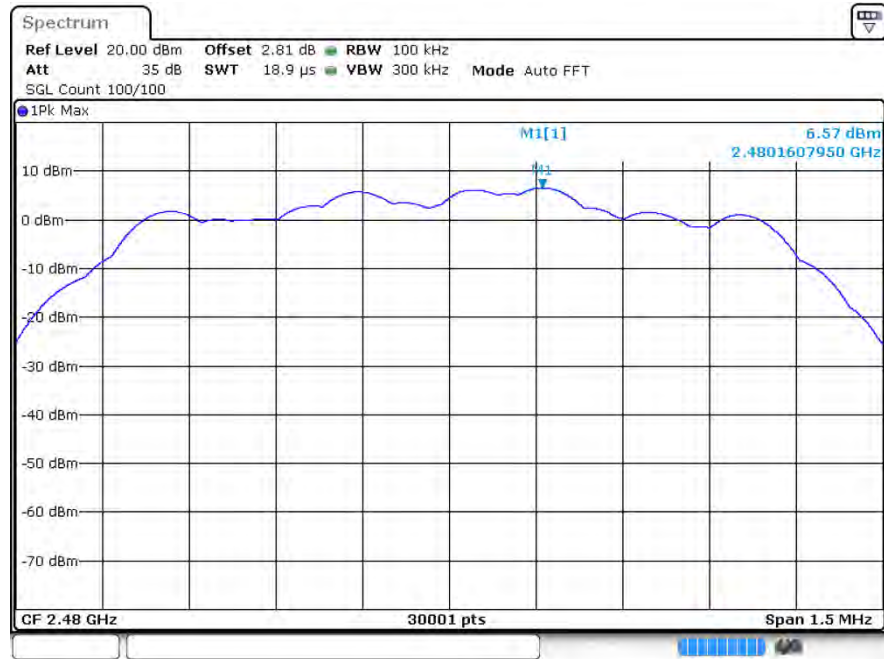


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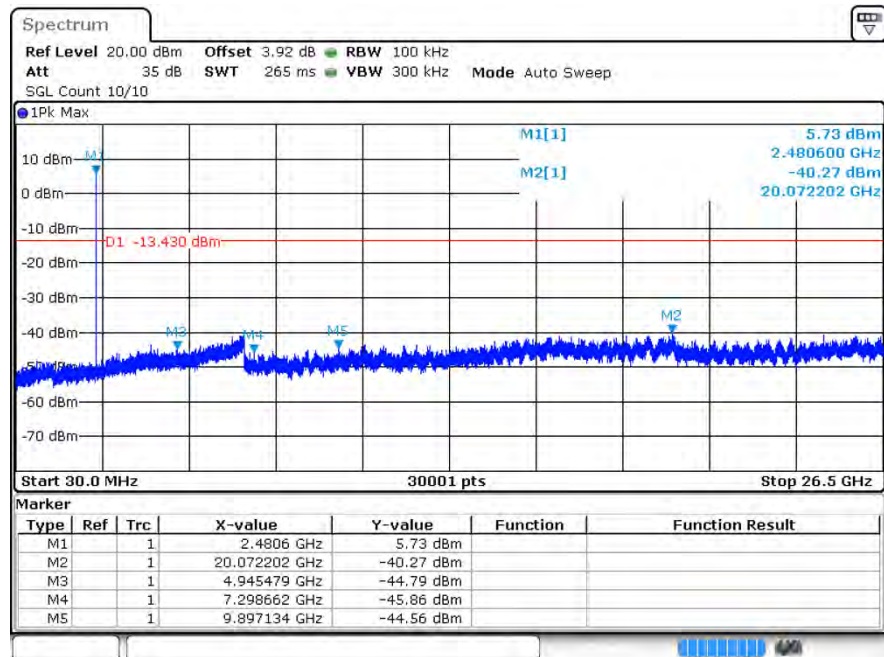


8DPSK_HCH_Graphs

Pref



Puw

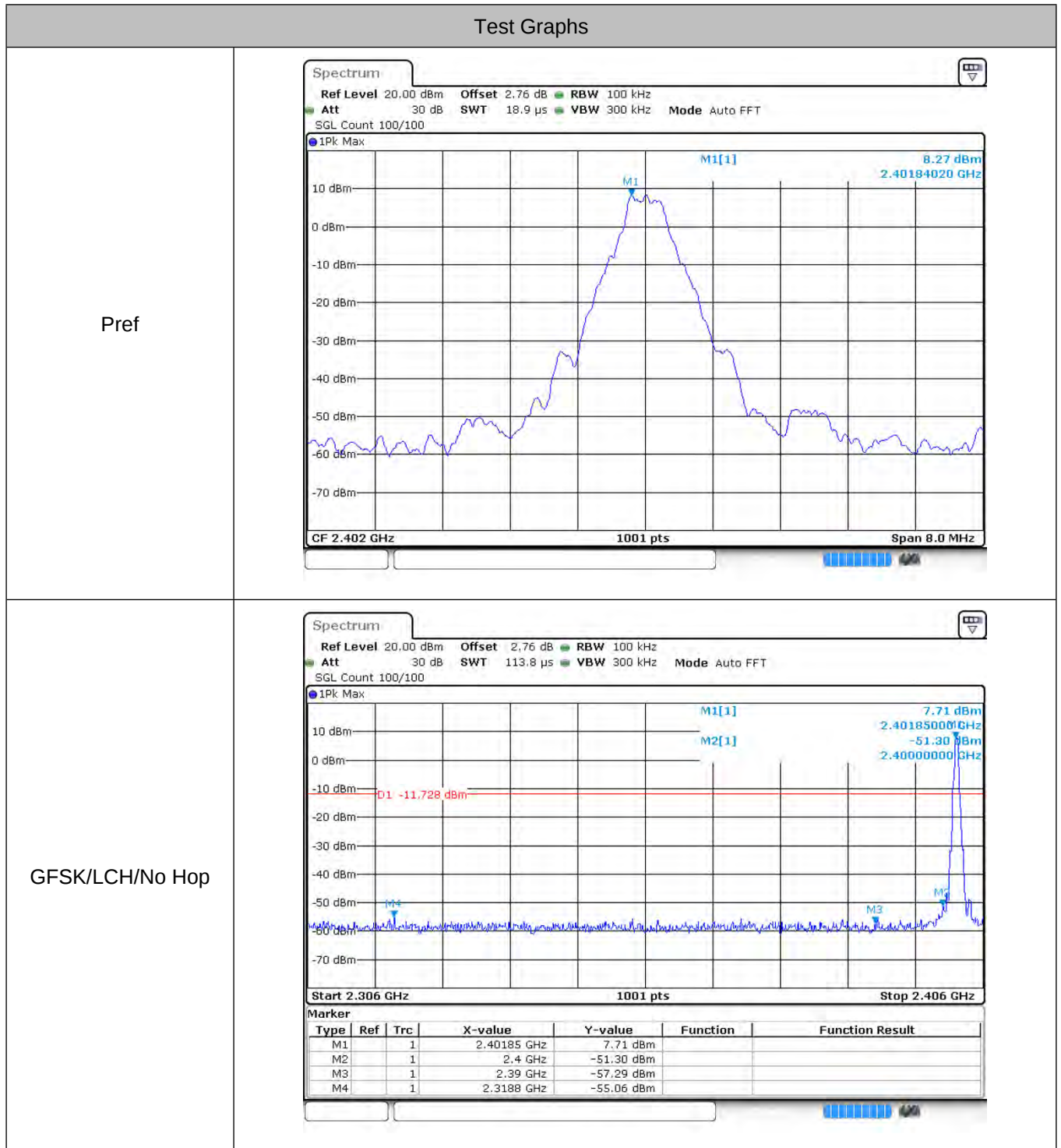


8 Band-edge for RF Conducted Emissions

8.1 Test Result

Mode	Channel	Carrier Frequency [MHz]	Frequency Hopping	Max Spurious Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	2402	Off	-63.33	-20	Pass
			On	-62.66	-20	Pass
	HCH	2480	Off	-63.15	-20	Pass
			On	-62.45	-20	Pass
$\pi/4$ DQPSK	LCH	2402	Off	-61.51	-20	Pass
			On	-61.7	-20	Pass
	HCH	2480	Off	-61.36	-20	Pass
			On	-61.01	-20	Pass
8DPSK	LCH	2402	Off	-62.93	-20	Pass
			On	-60.67	-20	Pass
	HCH	2480	Off	-61.55	-20	Pass
			On	-61.27	-20	Pass

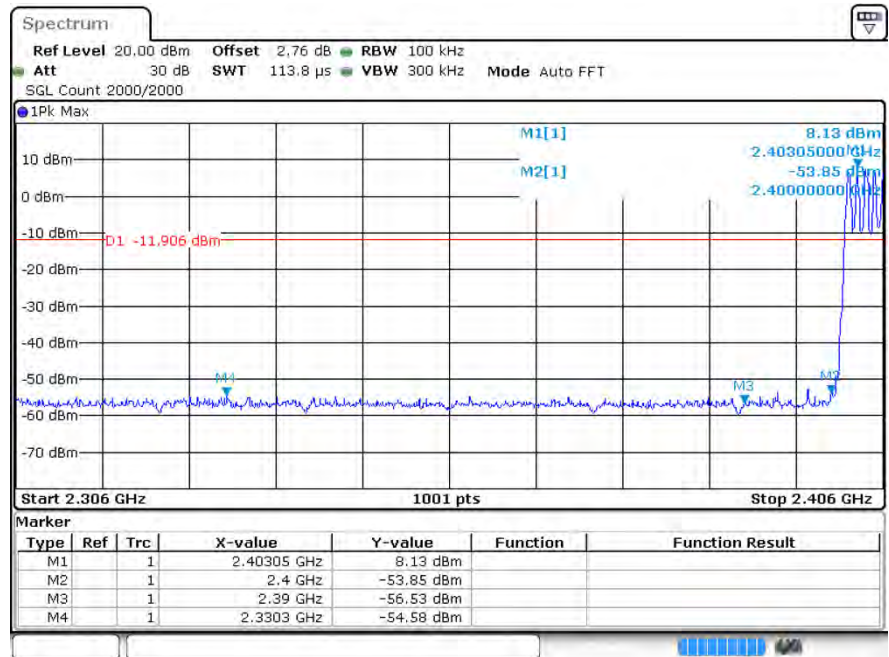
8.2 Test Graphs



Ref



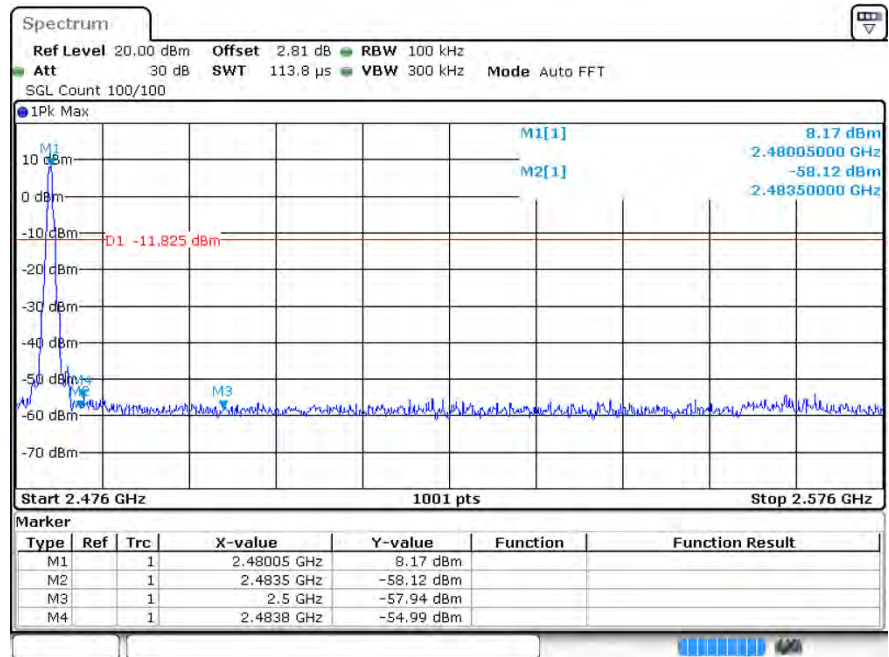
GFSK/LCH/Hop



Ref



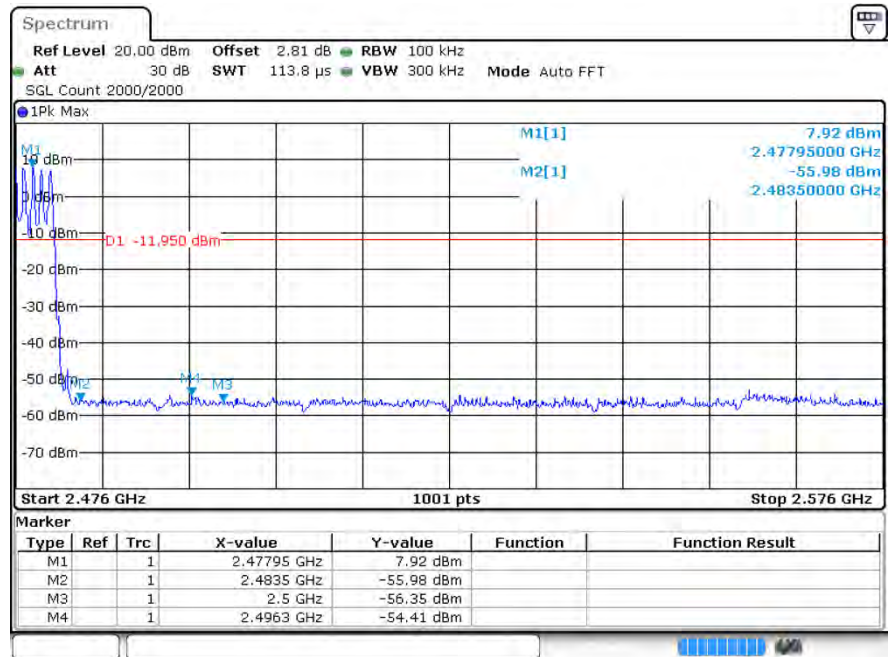
GFSK/HCH/No Hop



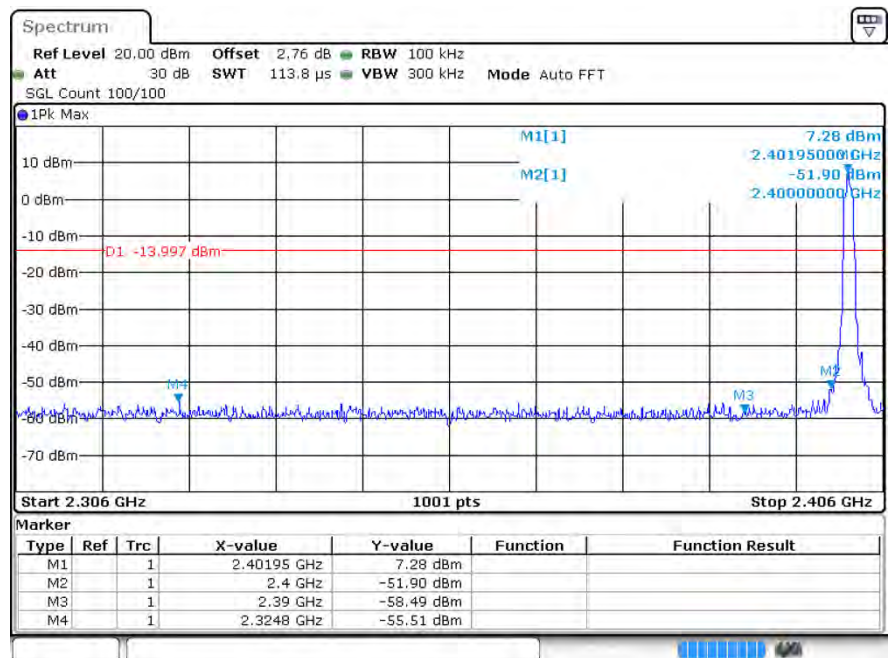
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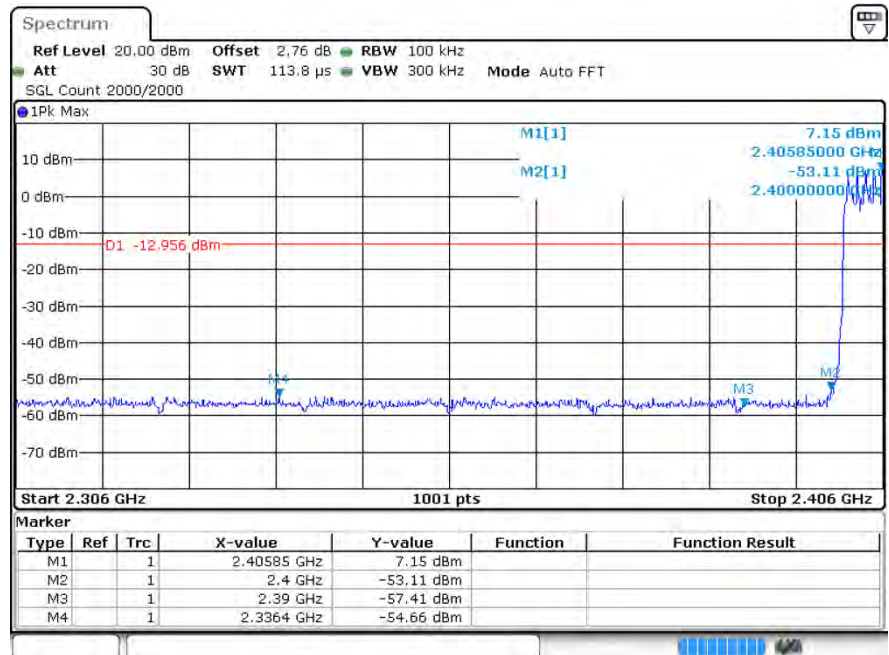
GFSK/HCH/Hop



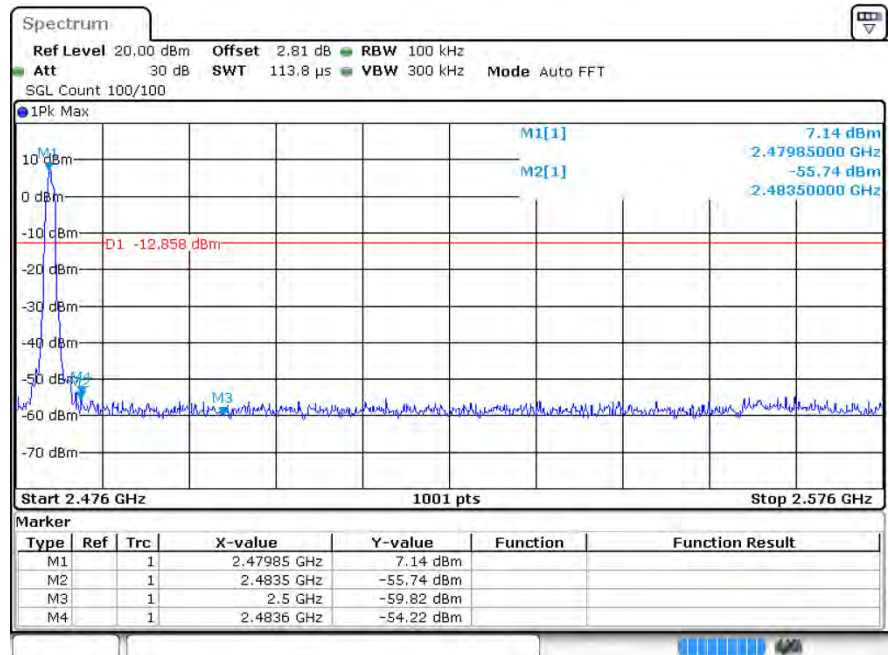
Ref


 $\pi/4$ DQPSK/LCH/No Hop


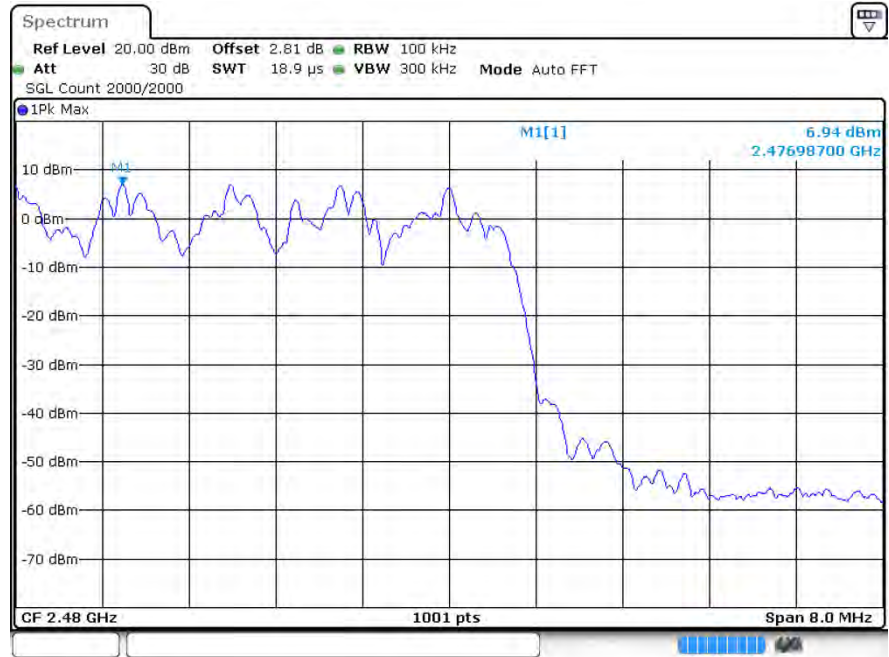
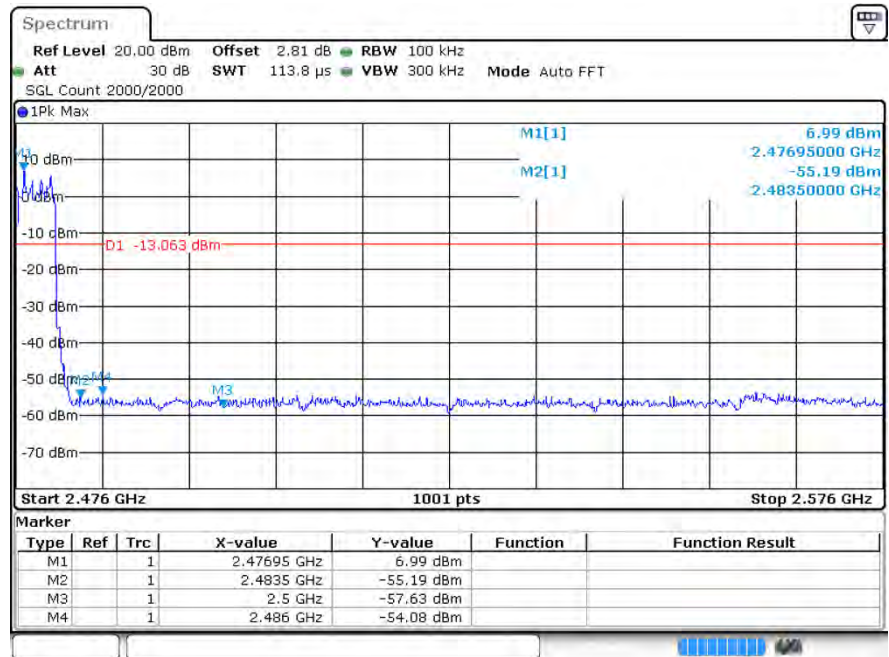
Ref


 $\pi/4$ DQPSK/LCH/Hop


Ref


 $\pi/4$ DQPSK/HCH/No Hop


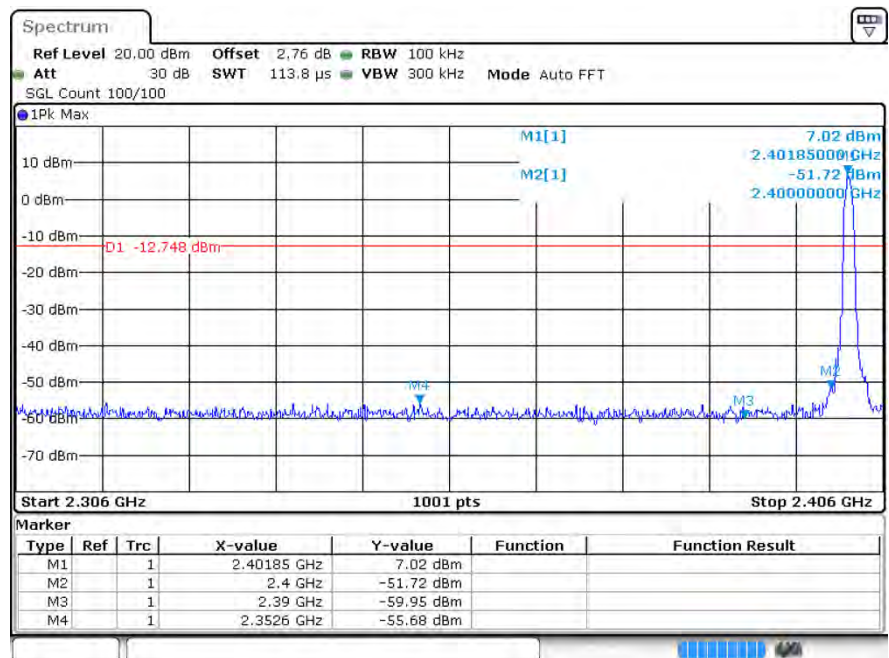
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 $\pi/4$ DQPSK/HCH/Hop


Ref



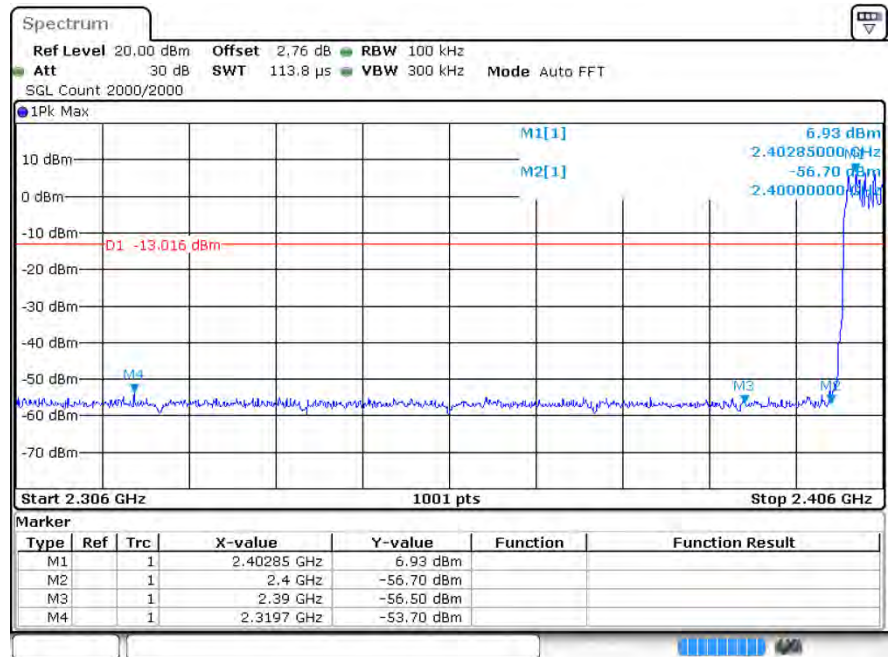
8DPSK/LCH/No Hop



Ref



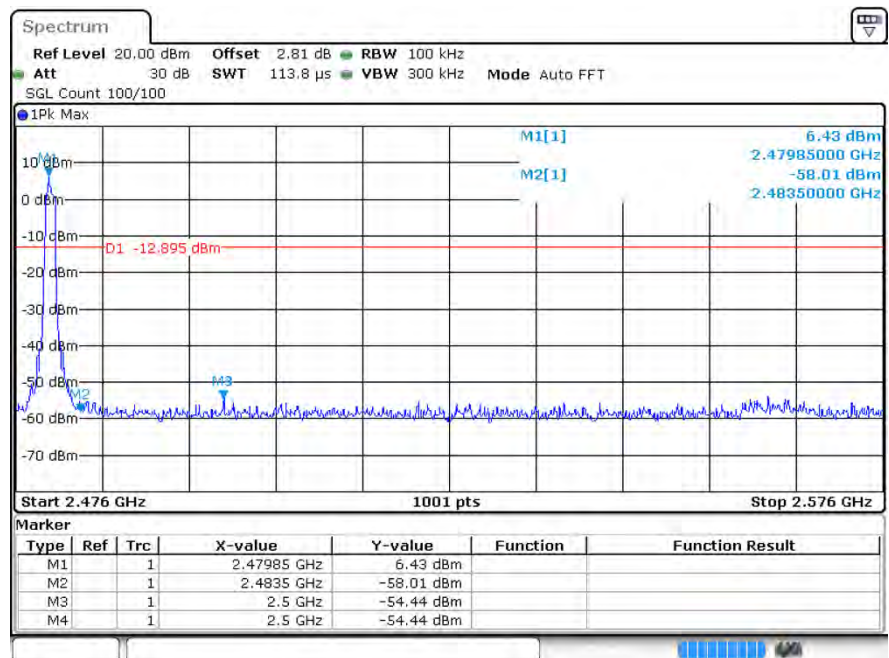
8DPSK/LCH/Hop



Ref



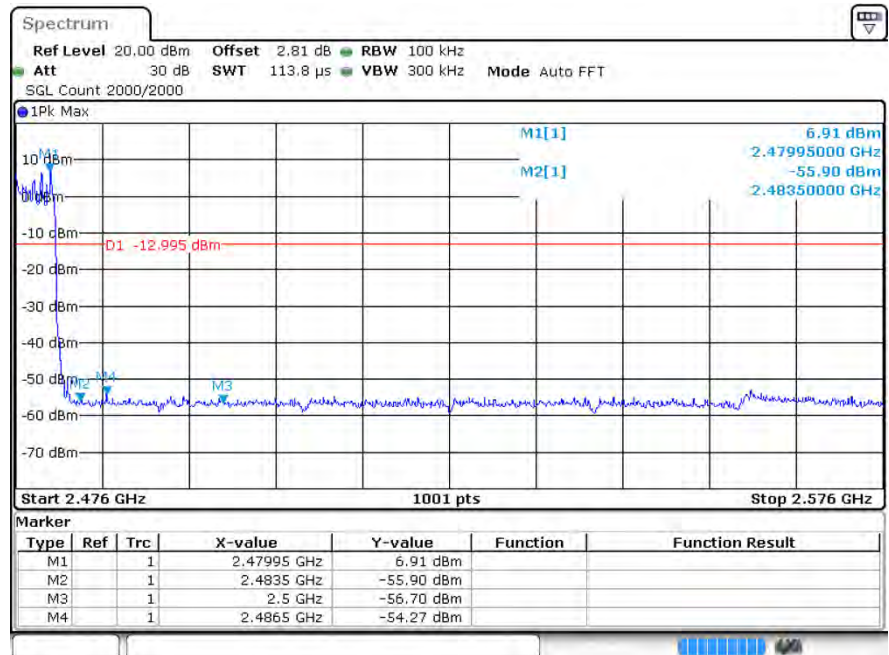
8DPSK/HCH/No Hop



Ref



8DPSK/HCH/Hop



9 Restrict-band band-edge measurements

9.1 Test Result

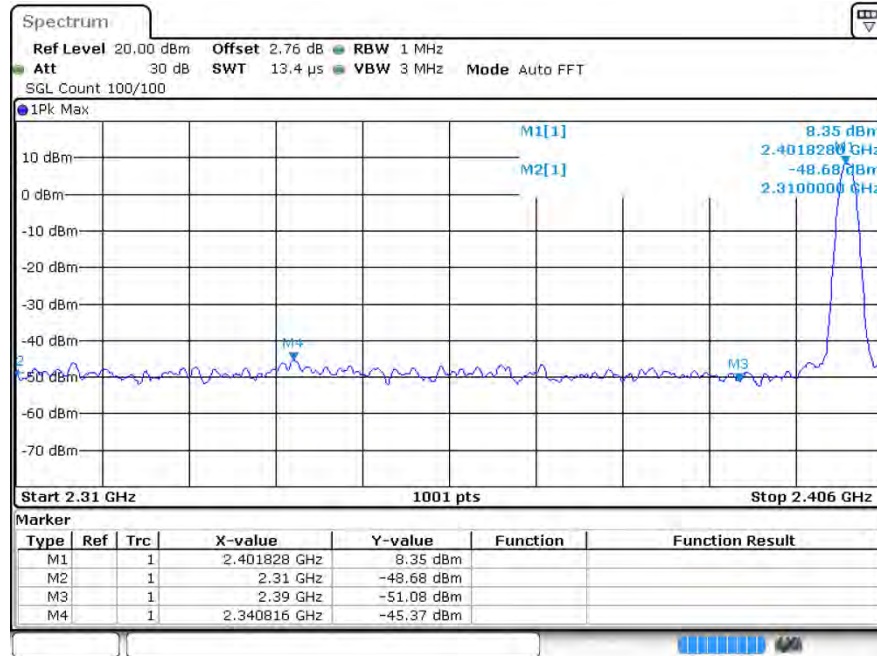
Test Mode	Hopping	Freq.	Power [dBm]	Gain	Duty Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-48.68	2	-	48.58	PEAK	74	Pass
	Off	2310.0	-56.37	2	4.97	45.86	AV	54	Pass
	Off	2340.816	-45.37	2	-	51.89	PEAK	74	Pass
	Off	2340.432	-54.02	2	4.97	48.21	AV	54	Pass
	Off	2390.0	-51.08	2	-	46.18	PEAK	74	Pass
	Off	2390.0	-55.79	2	4.97	46.44	AV	54	Pass
	Off	2483.5	-47.14	2	-	50.12	PEAK	74	Pass
	Off	2483.5	-55.95	2	4.95	46.26	AV	54	Pass
	Off	2498.944	-47.1	2	-	50.16	PEAK	74	Pass
	Off	2492.608	-55.21	2	4.95	47	AV	54	Pass
	Off	2500.0	-49.74	2	-	47.52	PEAK	74	Pass
	Off	2500.0	-56.09	2	4.95	46.12	AV	54	Pass
$\pi/4$ DQPSK	Off	2310.0	-49.66	2	-	47.6	PEAK	74	Pass
	Off	2310.0	-56.19	2	4.9	45.97	AV	54	Pass
	Off	2344.08	-46.2	2	-	51.06	PEAK	74	Pass
	Off	2339.184	-54.05	2	4.9	48.11	AV	54	Pass
	Off	2390.0	-47.56	2	-	49.7	PEAK	74	Pass
	Off	2390.0	-55.95	2	4.9	46.21	AV	54	Pass
	Off	2483.5	-49.61	2	-	47.65	PEAK	74	Pass
	Off	2483.5	-54.81	2	4.9	47.35	AV	54	Pass
	Off	2485.84	-46.78	2	-	50.48	PEAK	74	Pass
	Off	2483.608	-54.76	2	4.9	47.4	AV	54	Pass
	Off	2500.0	-48.55	2	-	48.71	PEAK	74	Pass
	Off	2500.0	-56.16	2	4.9	46	AV	54	Pass
8DPSK	Off	2310.0	-48.56	2	-	48.7	PEAK	74	Pass
	Off	2310.0	-56.27	2	4.9	45.89	AV	54	Pass
	Off	2338.128	-45.09	2	-	52.17	PEAK	74	Pass
	Off	2340.72	-53.56	2	4.9	48.6	AV	54	Pass



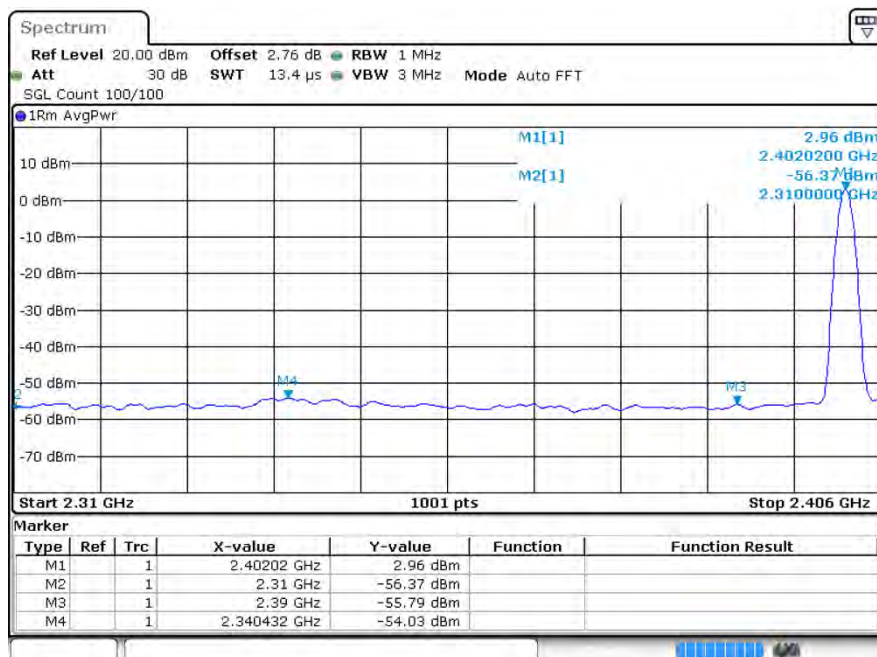
Off	2390.0	-50.22	2	-	47.04	PEAK	74	Pass
Off	2390.0	-55.58	2	4.9	46.58	AV	54	Pass
Off	2483.5	-49.31	2	-	47.95	PEAK	74	Pass
Off	2483.5	-55.57	2	4.9	46.59	AV	54	Pass
Off	2494.576	-46.88	2	-	50.38	PEAK	74	Pass
Off	2487.064	-54.87	2	4.9	47.29	AV	54	Pass
Off	2500.0	-50.21	2	-	47.05	PEAK	74	Pass
Off	2500.0	-55.47	2	4.9	46.69	AV	54	Pass

9.2 Test Graphs

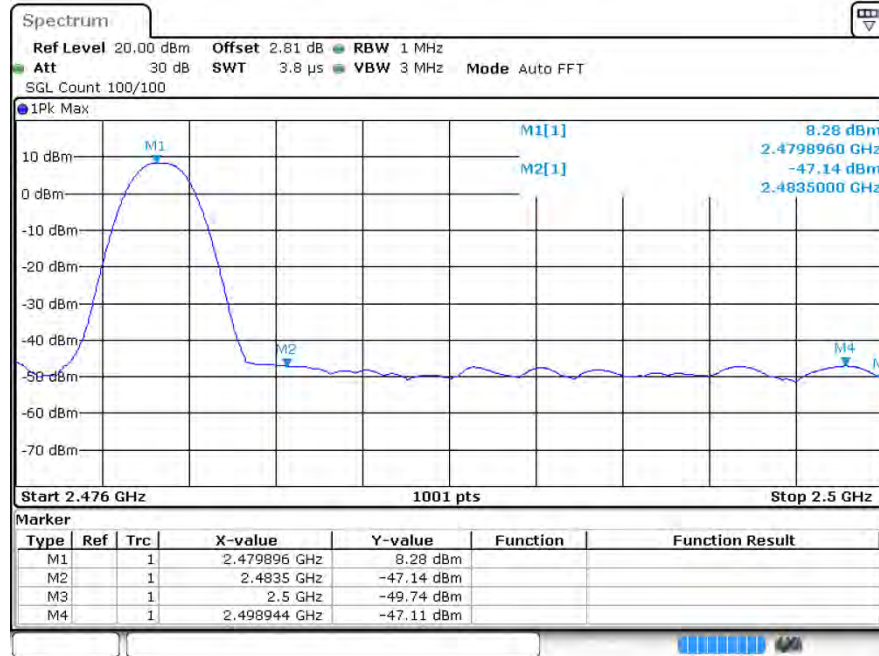
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (Low Channel)



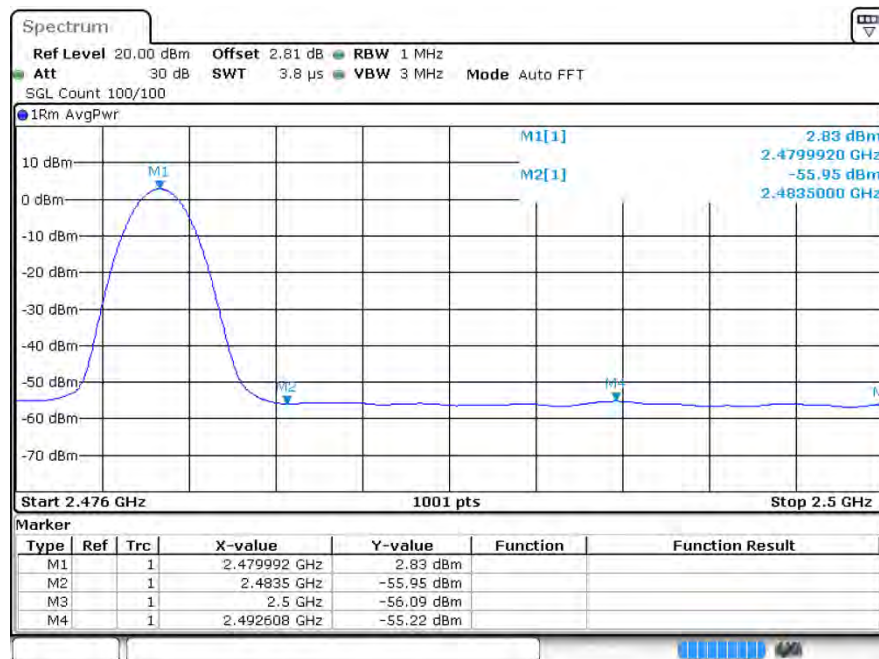
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



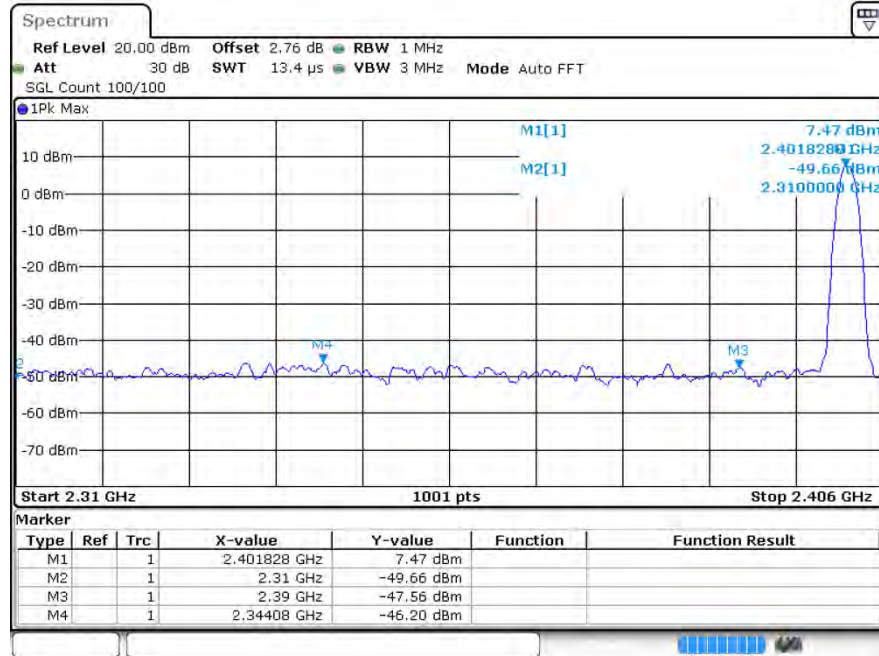
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (High Channel)



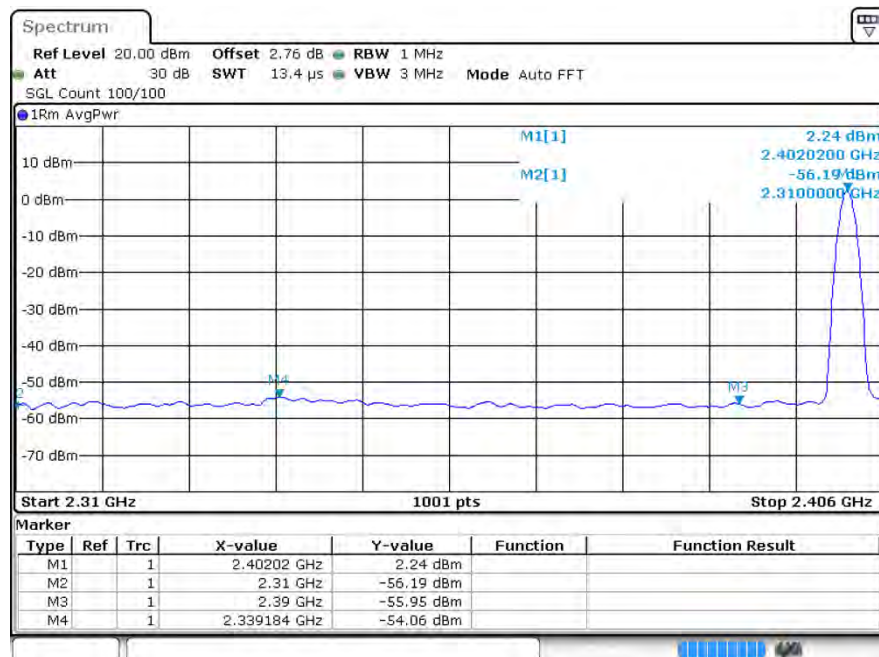
Restrict-band band-edge measurements_Hopping Off_GFSK_Average (High Channel)



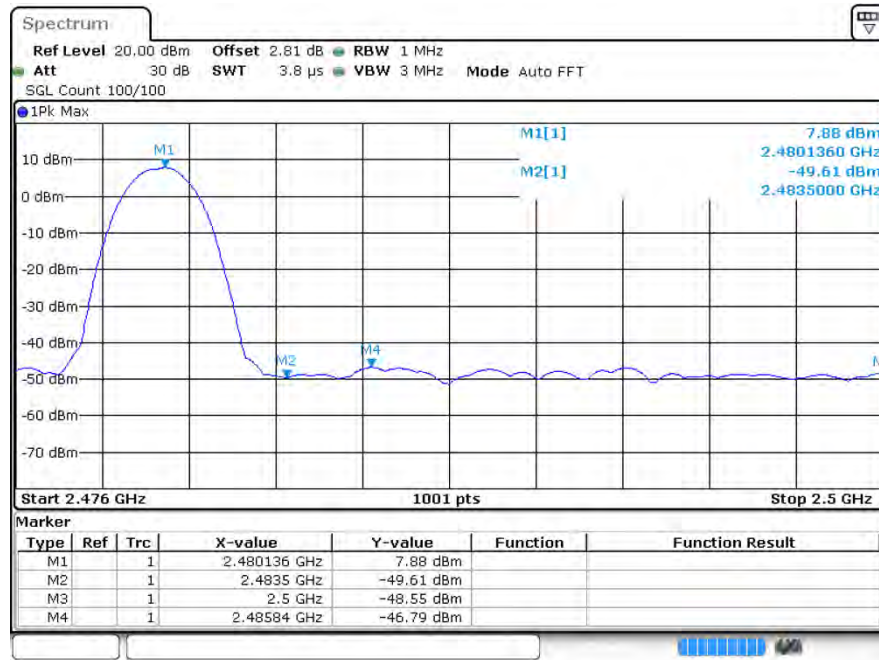
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



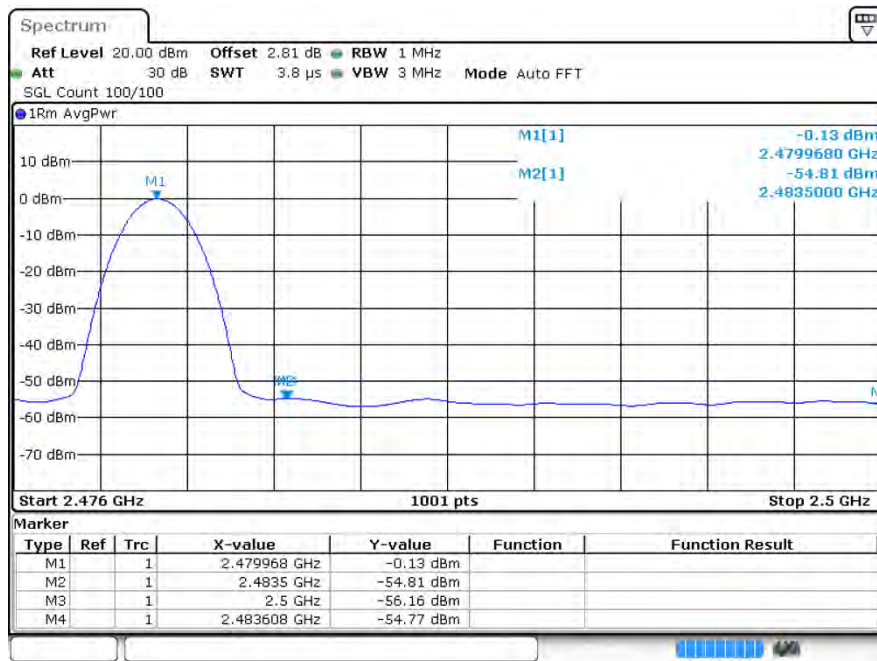
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



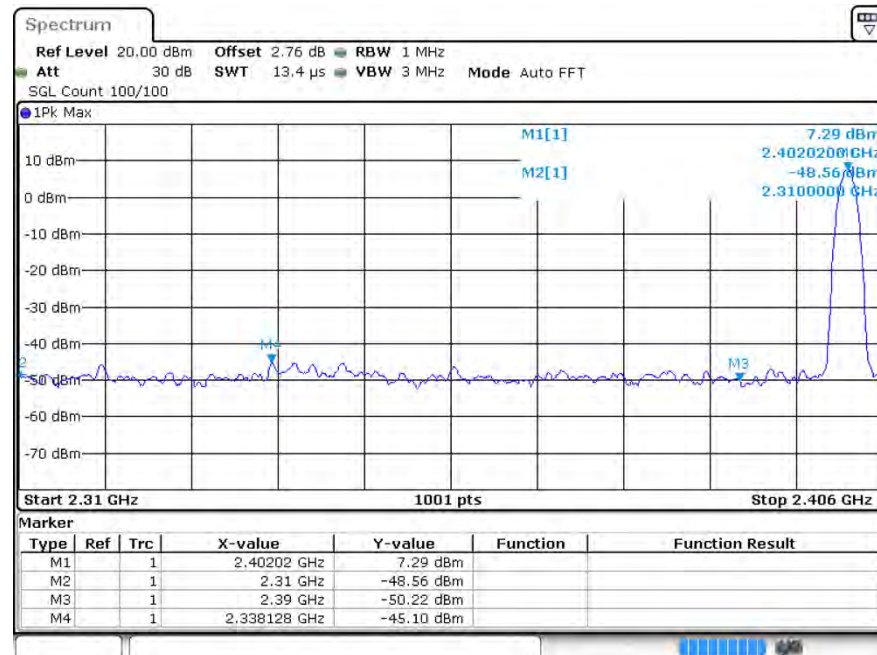
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



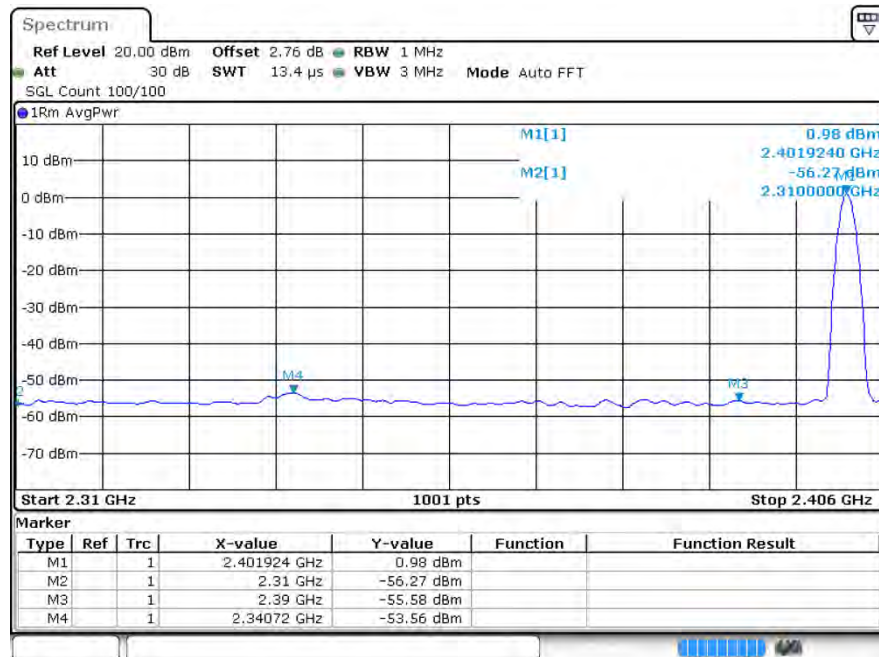
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



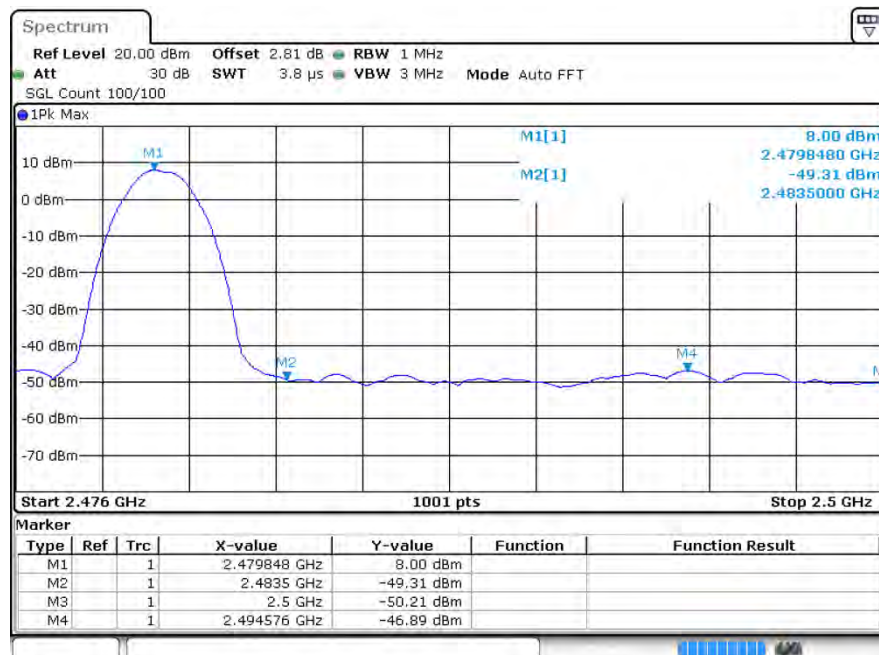
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



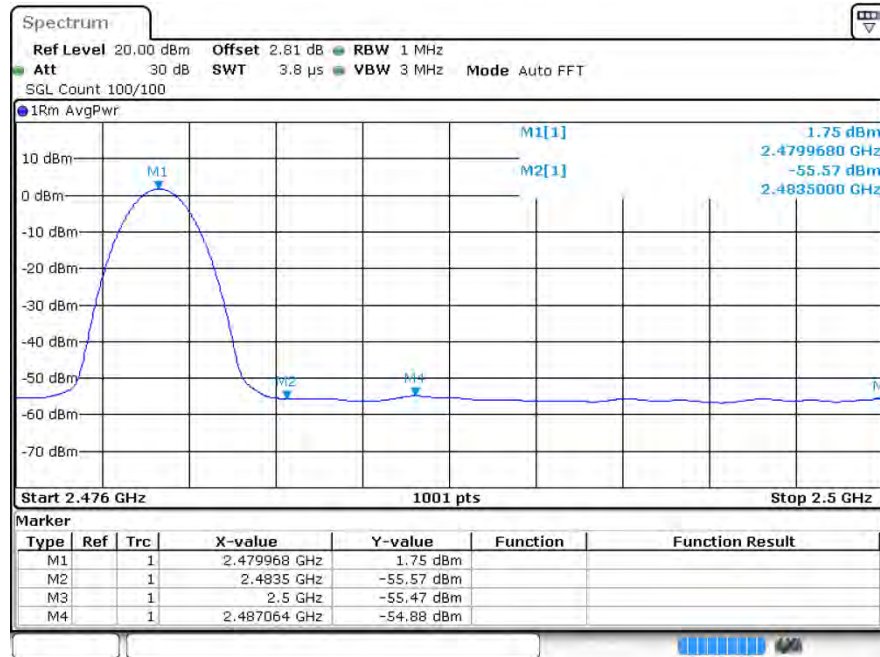
Restrict-band band-edge measurements_Hopping Off_8DPSK_Average (Low Channel)



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



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



---The End---