



Appendix A

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

Product Name: SLEEPING MASK HEADSET

Trade Mark: IJOY

Test Model: IJHP2268

Environmental Conditions

Temperature:	25.6°C
Relative Humidity:	58.4%
ATM Pressure:	101Kpa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen

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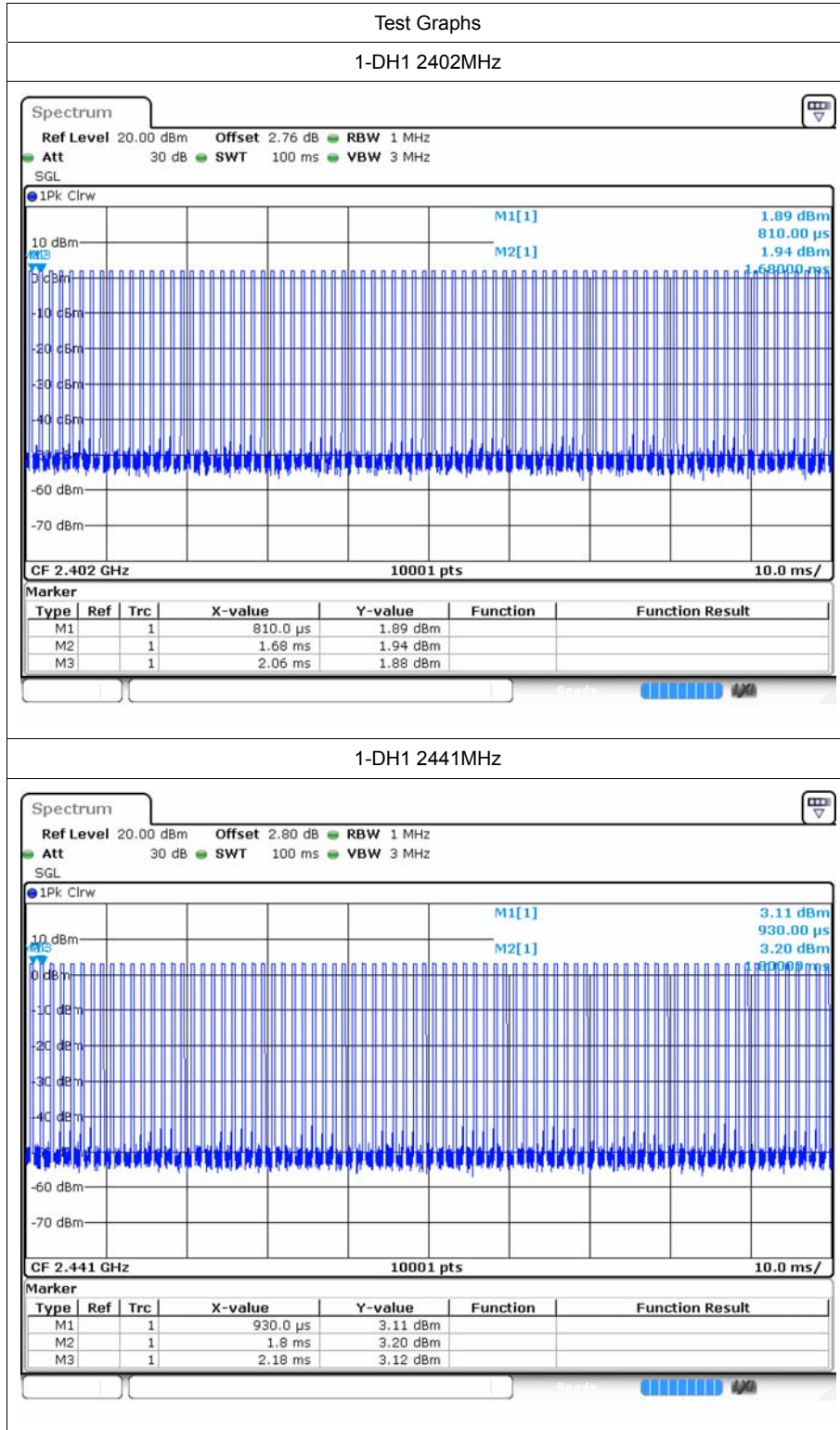
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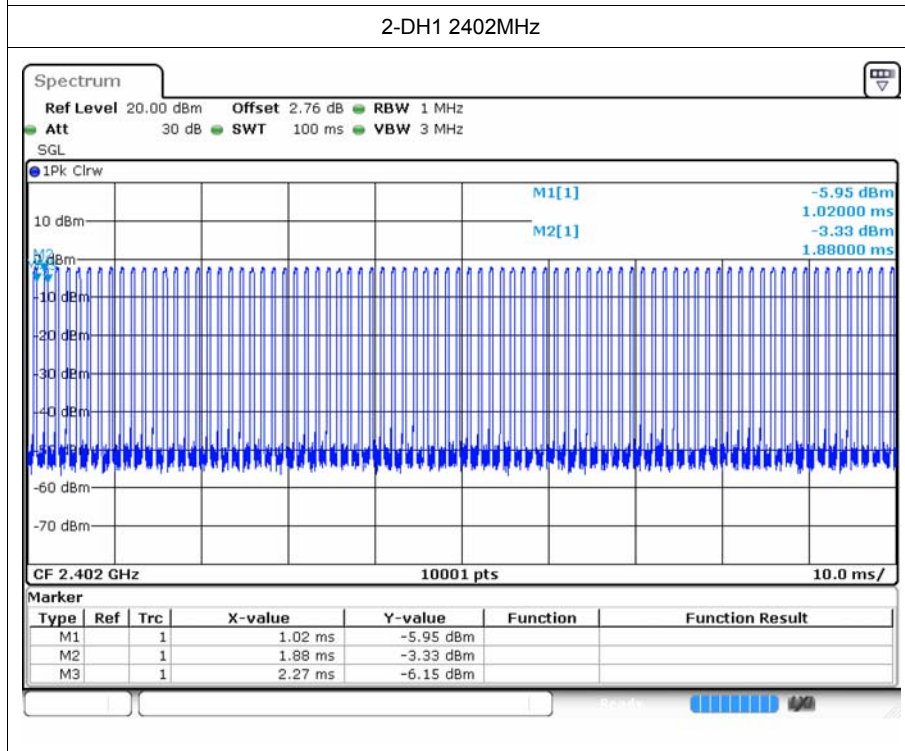
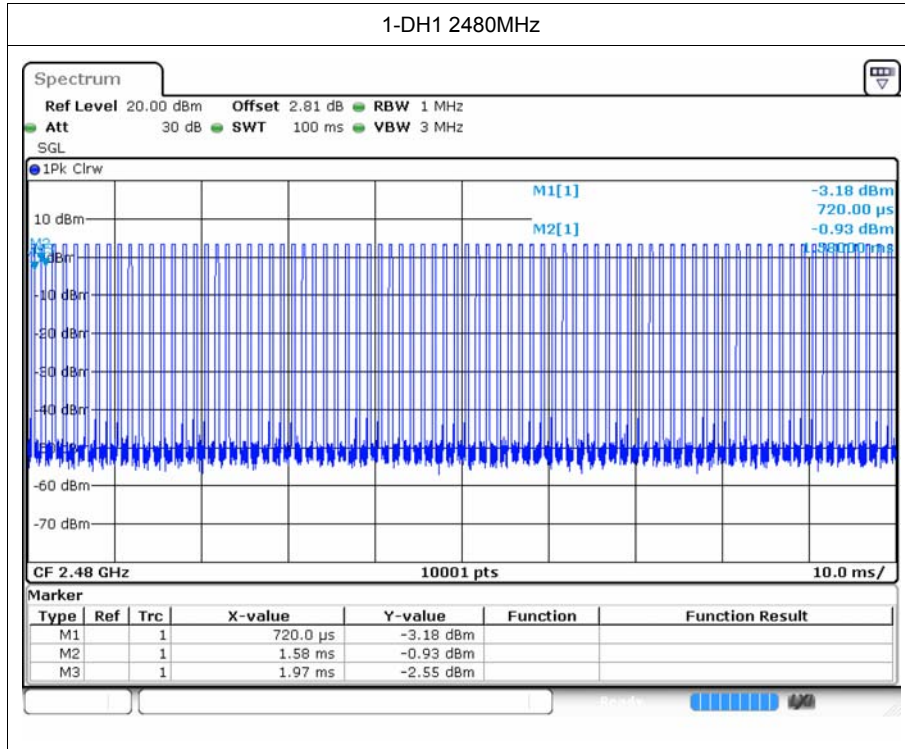
1 Duty Cycle

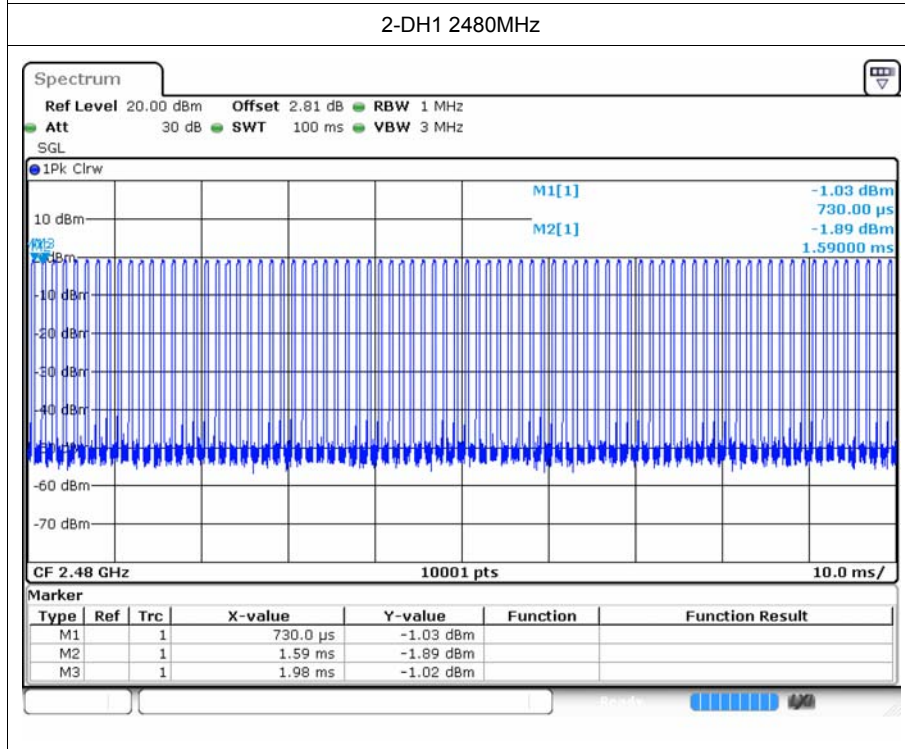
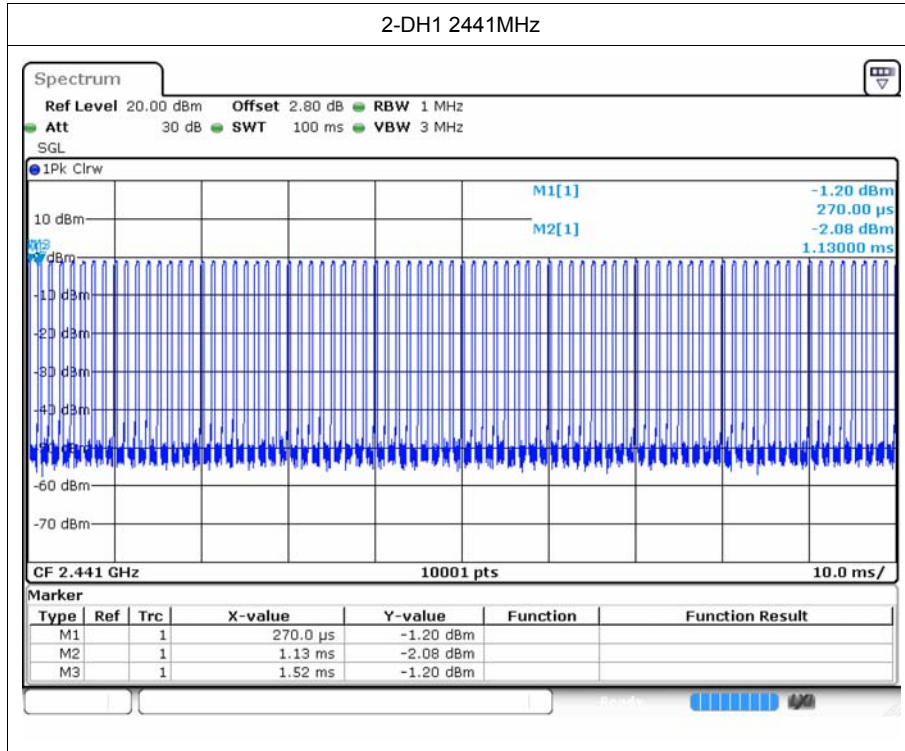
1.1 Test Result

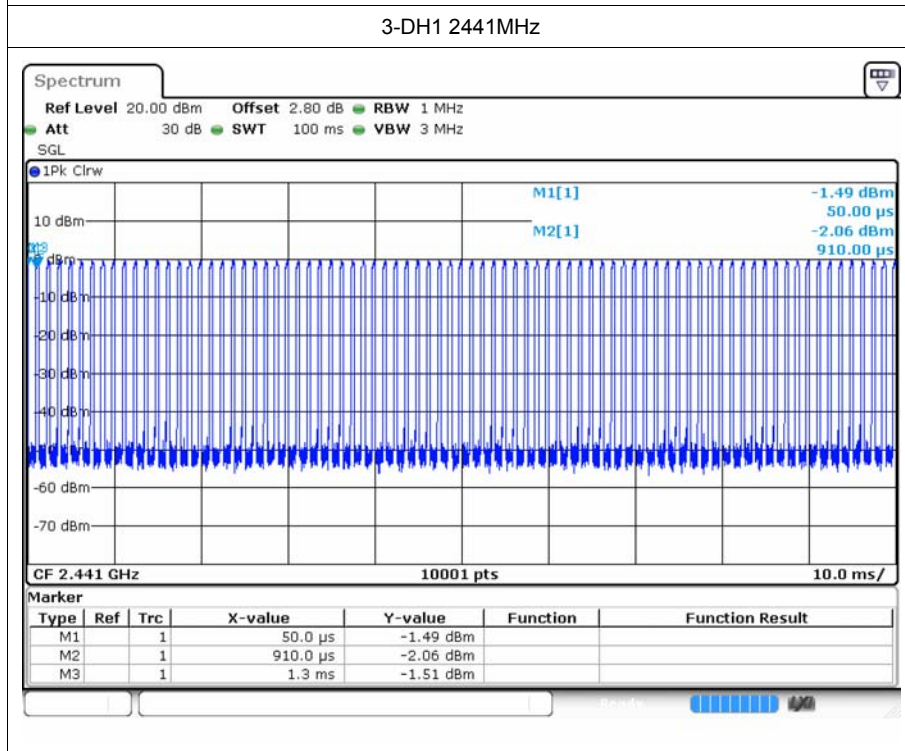
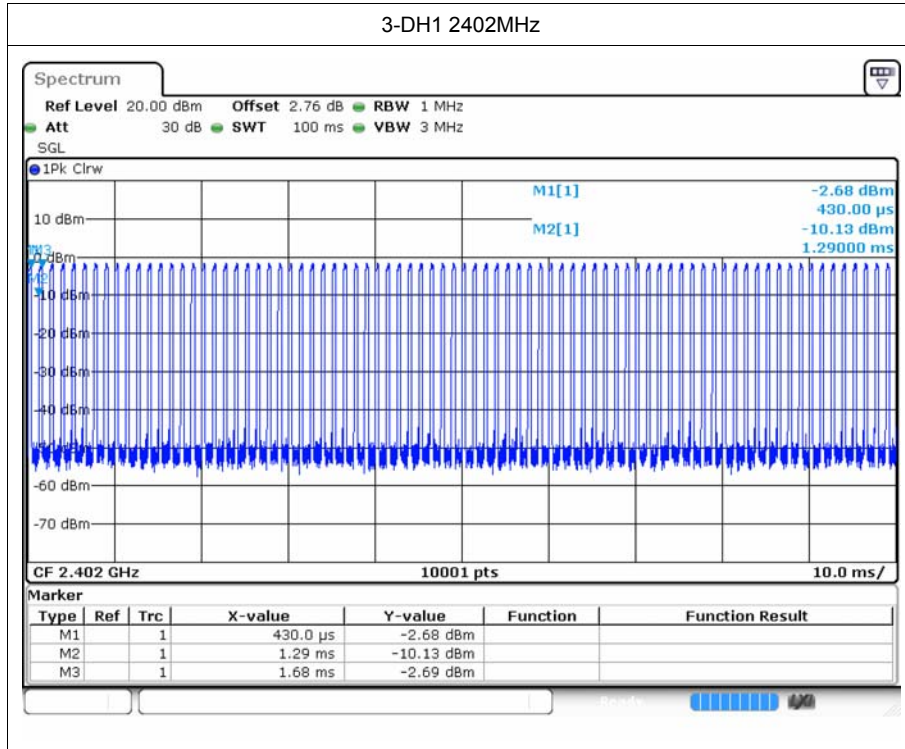
Mode	Frequency (MHz)	Duty Cycle (%)	1/T (kHz)
1-DH1	2402	31.67	2.63
1-DH1	2441	31.84	2.63
1-DH1	2480	31.87	2.56
2-DH1	2402	32	2.56
2-DH1	2441	32.01	2.56
2-DH1	2480	32	2.56
3-DH1	2402	31.98	2.56
3-DH1	2441	32.01	2.56
3-DH1	2480	32.01	2.56

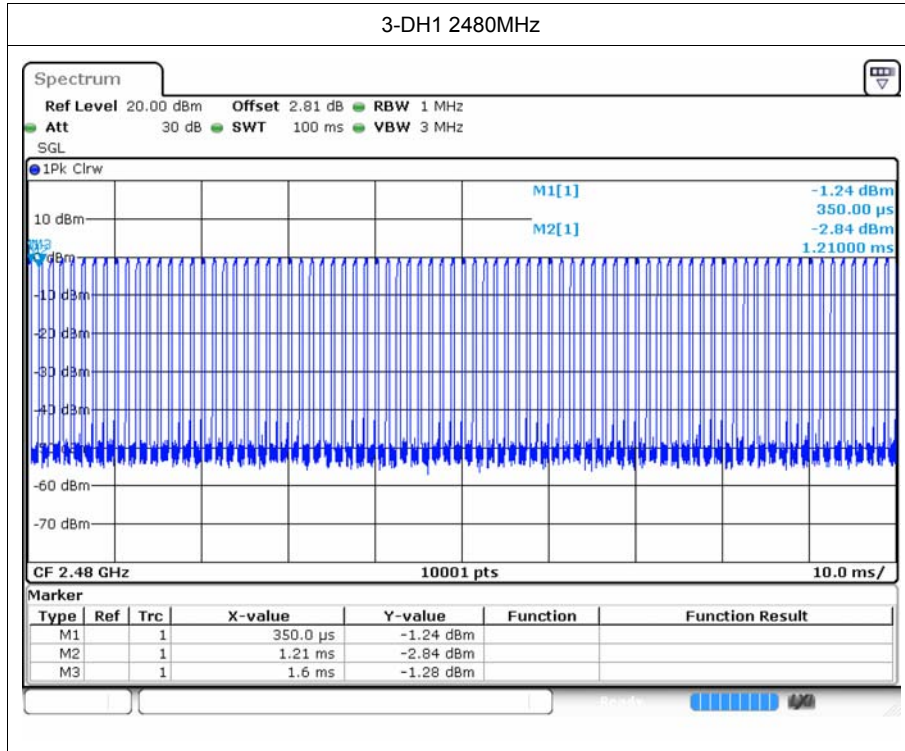
1.2 Test Graphs









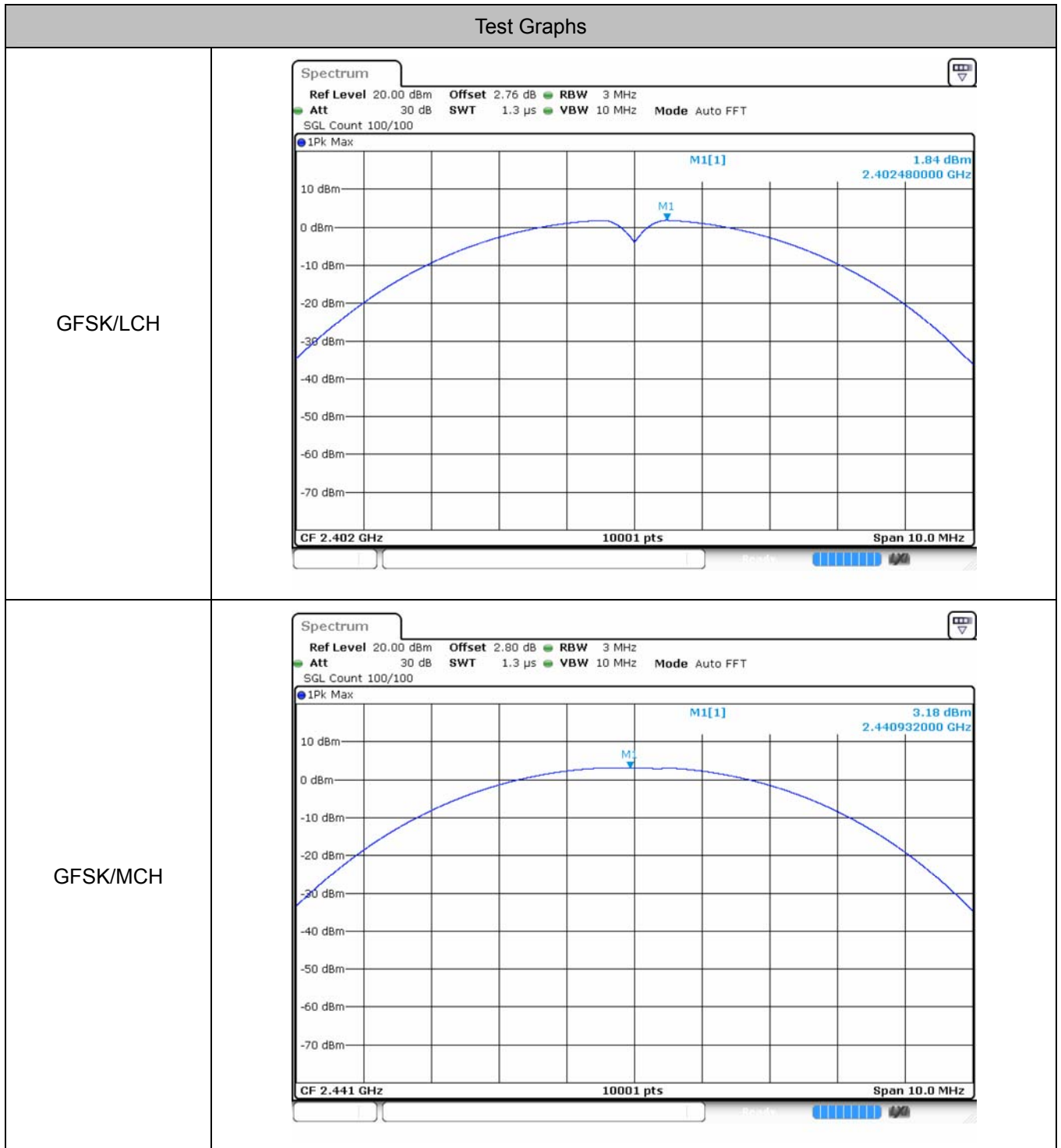


2 Maximum Conducted Peak Output Power

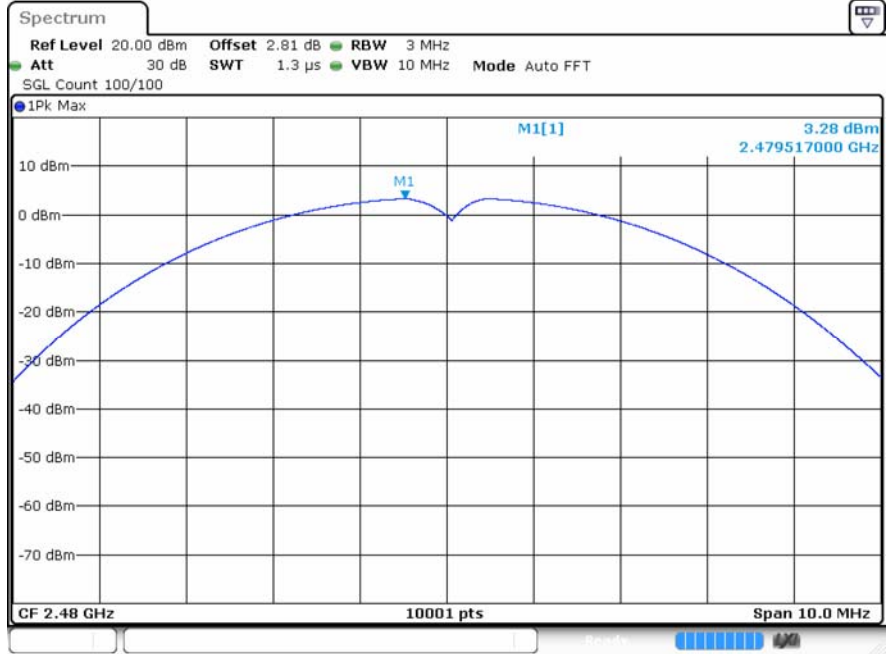
2.1 Test Result

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	1.84	21	Pass
	MCH	3.18	21	Pass
	HCH	3.28	21	Pass
$\pi/4$ DQPSK	LCH	-1.18	21	Pass
	MCH	0.11	21	Pass
	HCH	-0.06	21	Pass
8DPSK	LCH	-1.07	21	Pass
	MCH	-0.13	21	Pass
	HCH	0.14	21	Pass

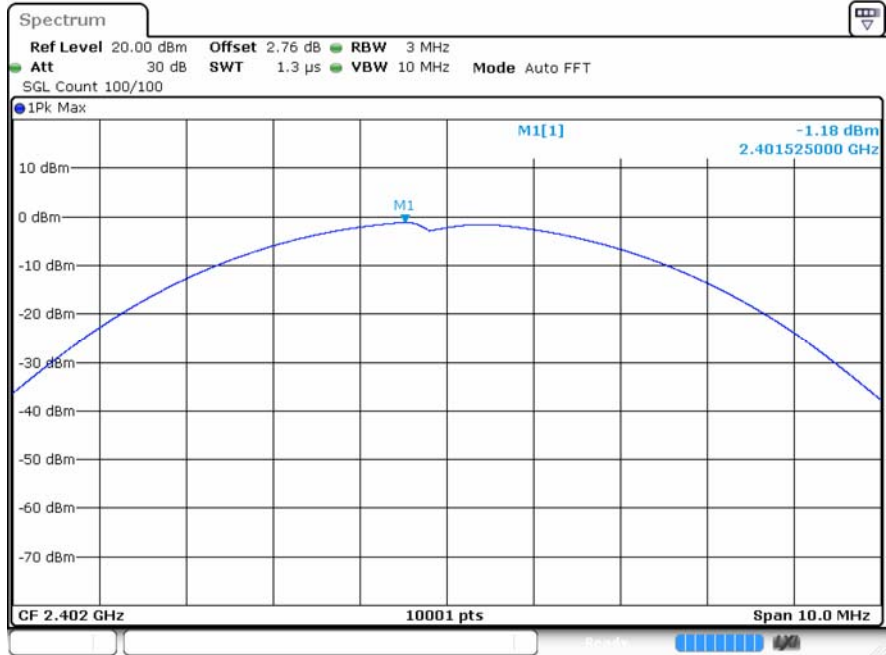
2.2 Test Graphs

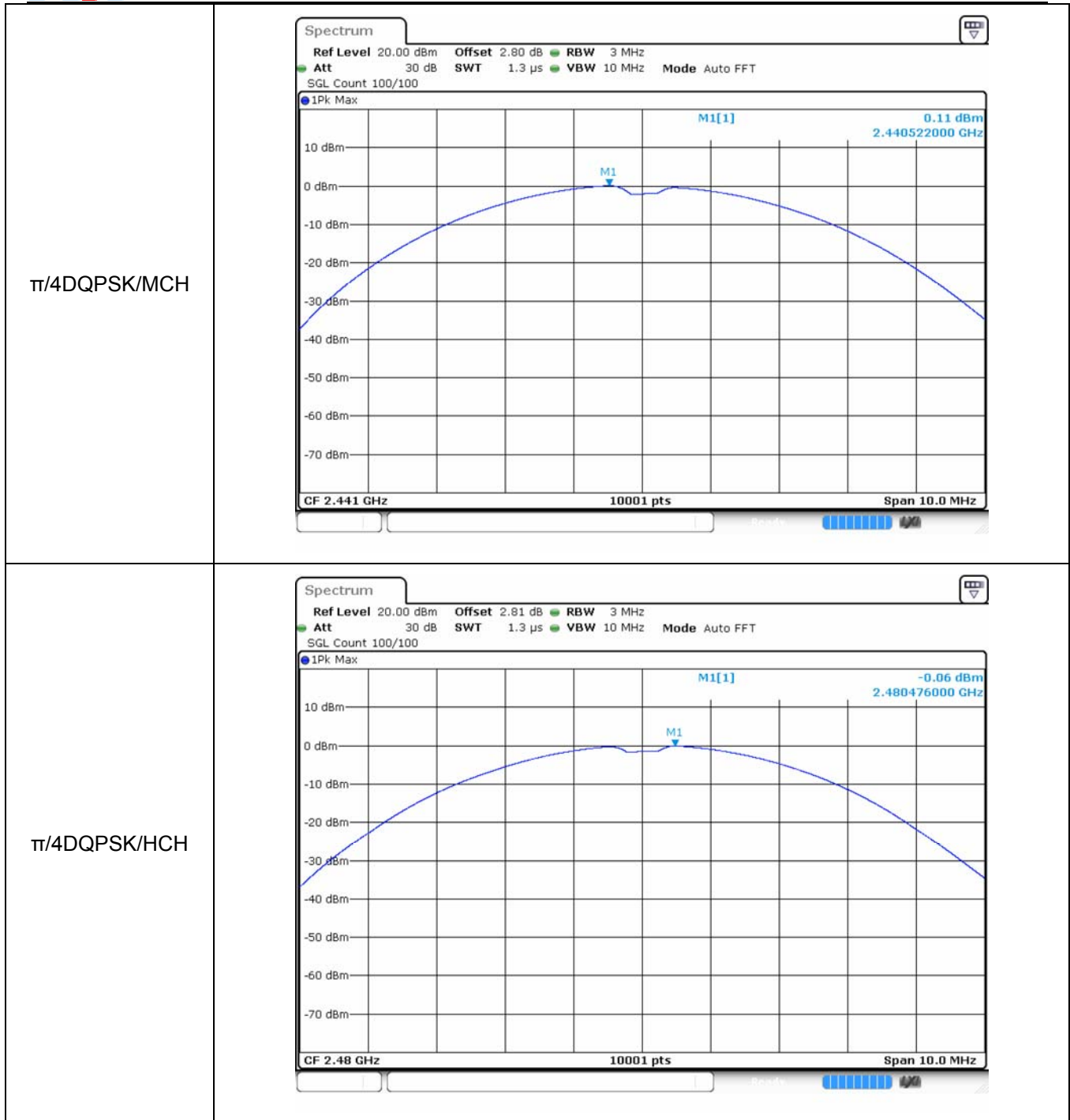


GFSK/HCH

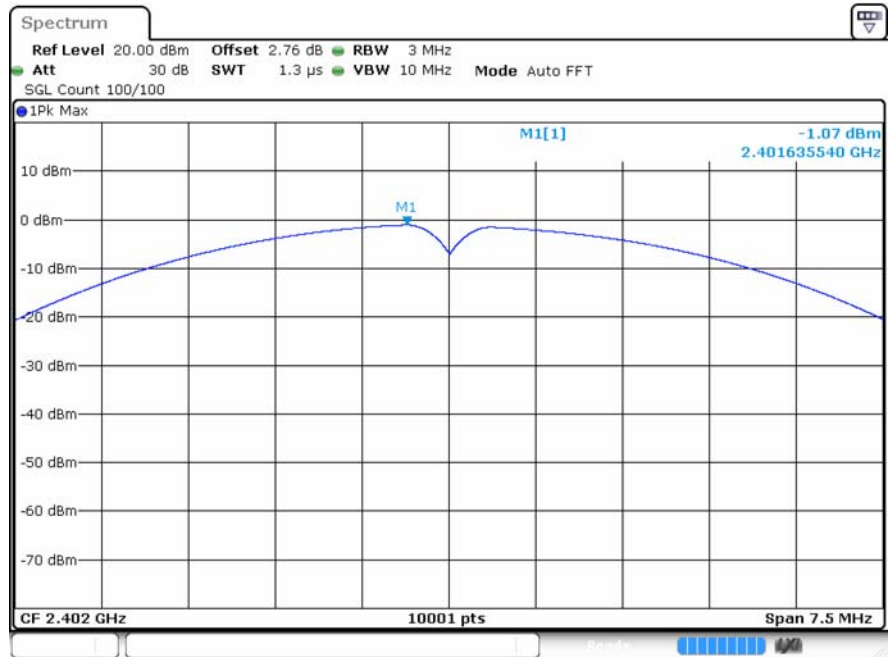


$\pi/4$ DQPSK/LCH

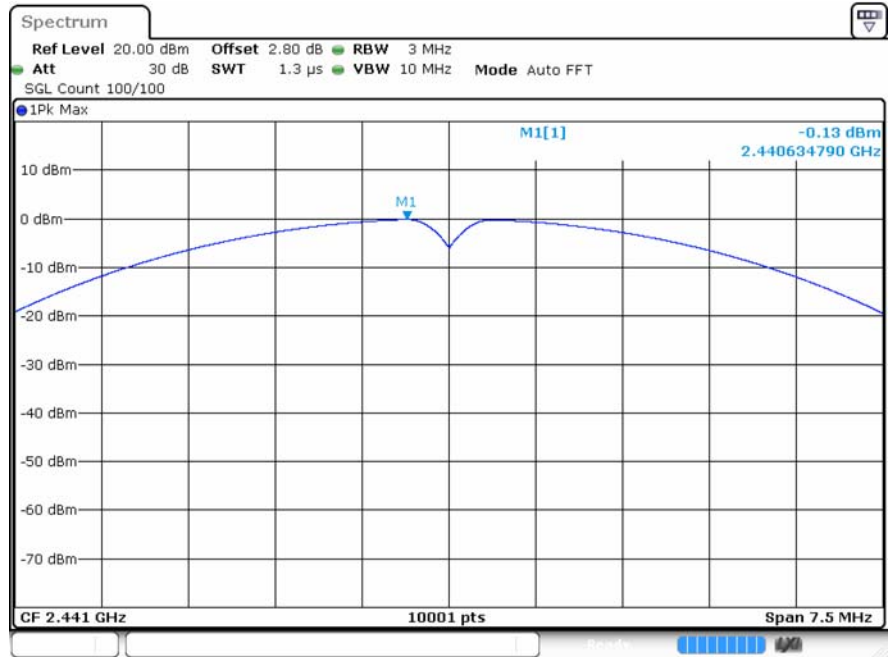




8DPSK/LCH

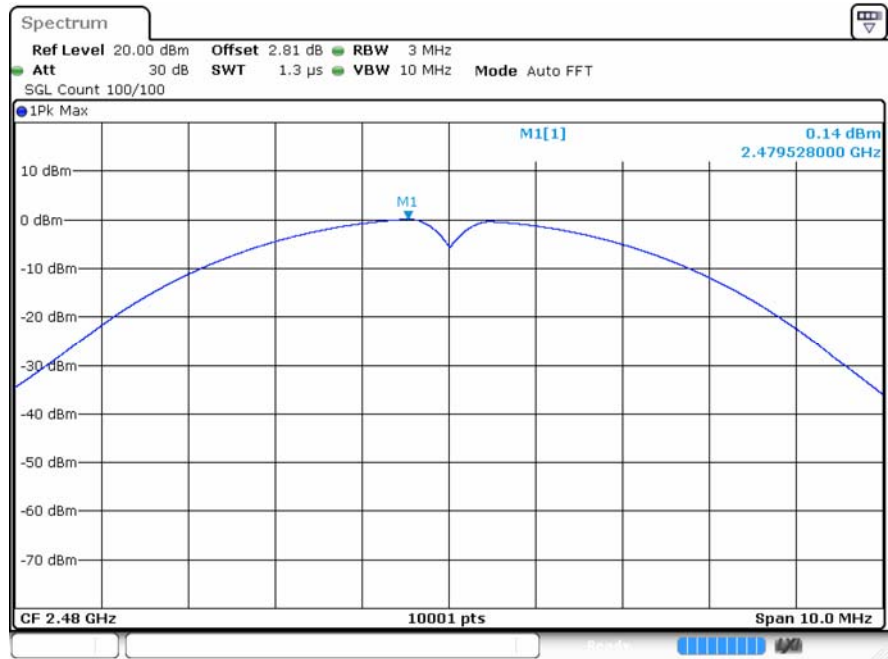


8DPSK/MCH





8DPSK/HCH

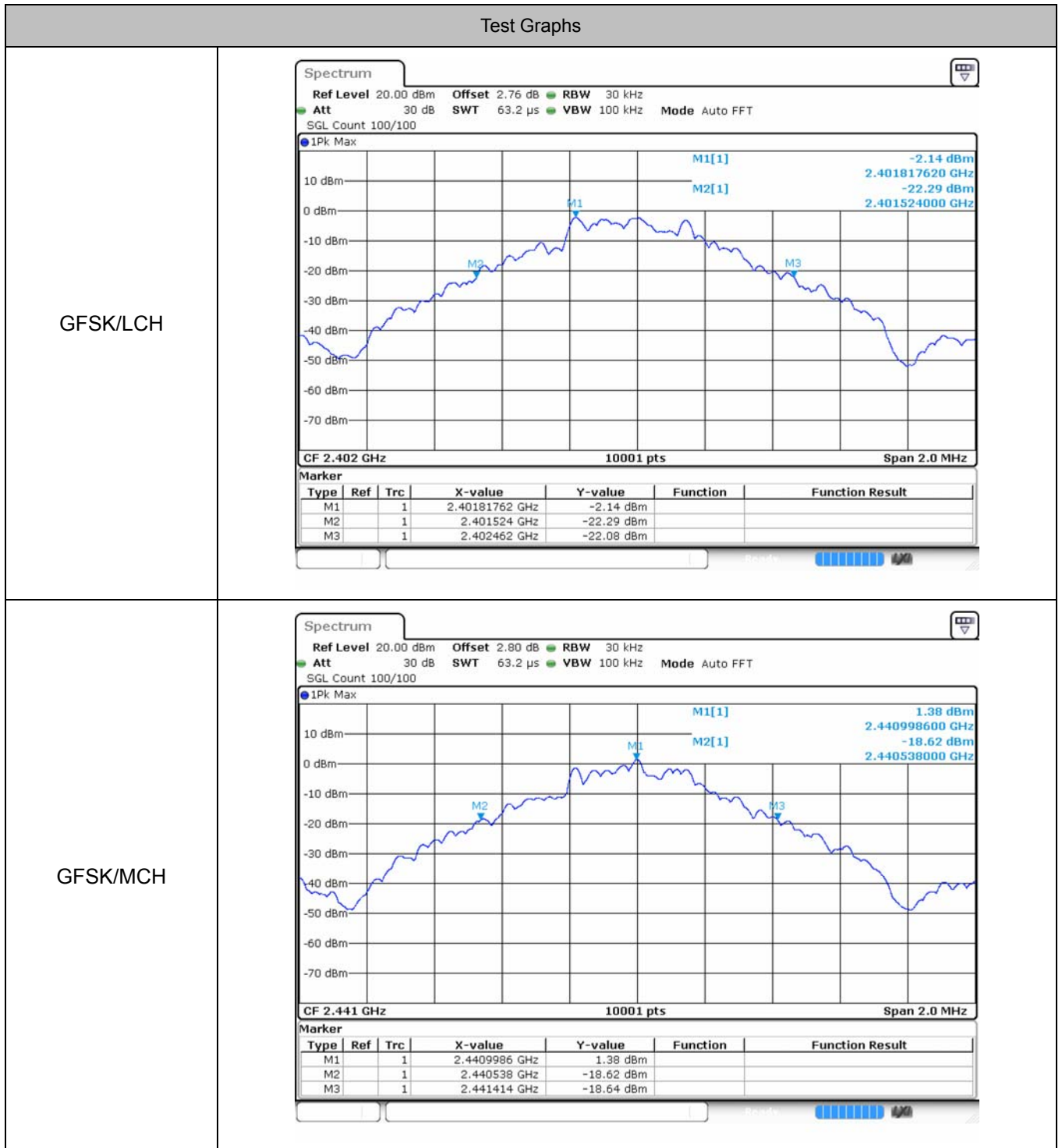


3 20dB Bandwidth

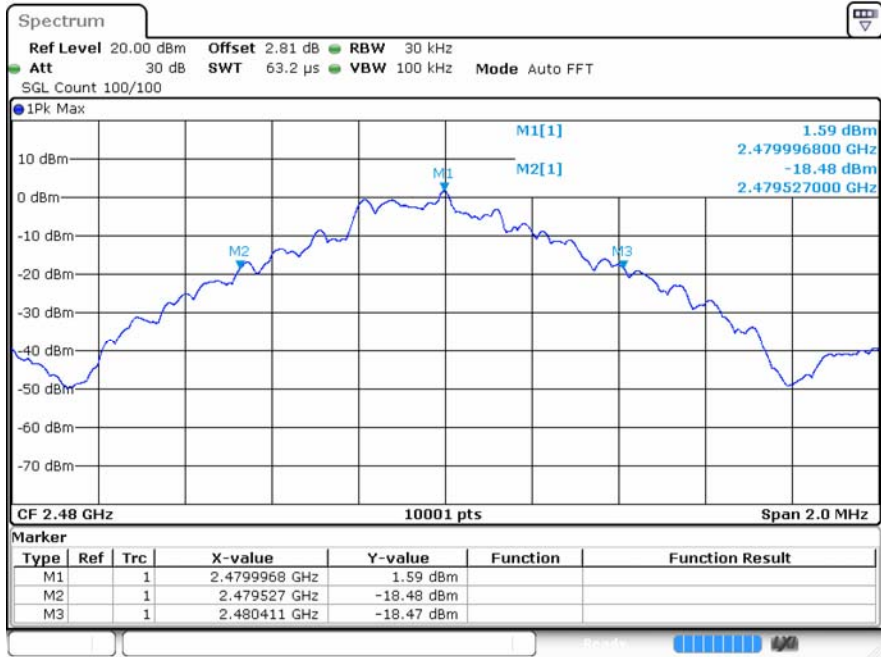
3.1 Test Result

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.938	Not Specified	Pass
	MCH	0.876	Not Specified	Pass
	HCH	0.883	Not Specified	Pass
$\pi/4$ DQPSK	LCH	1.425	Not Specified	Pass
	MCH	1.399	Not Specified	Pass
	HCH	1.425	Not Specified	Pass
8DPSK	LCH	1.432	Not Specified	Pass
	MCH	1.423	Not Specified	Pass
	HCH	1.436	Not Specified	Pass

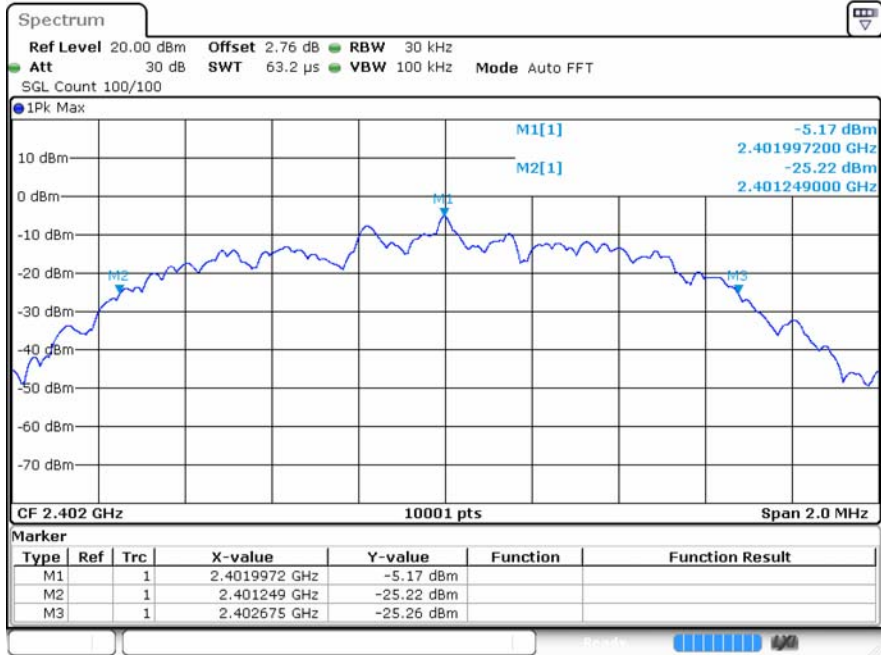
3.2 Test Graphs



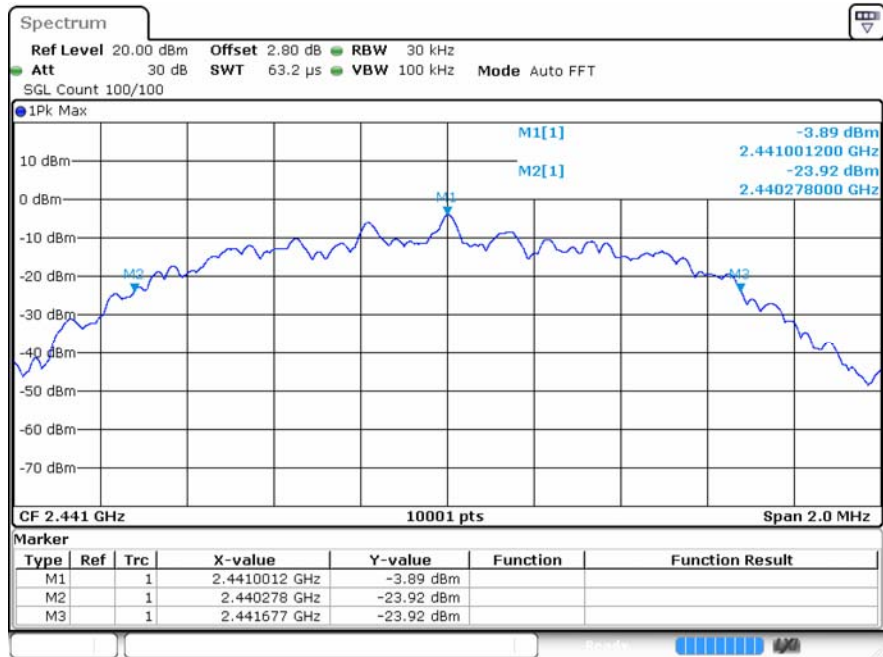
GFSK/HCH



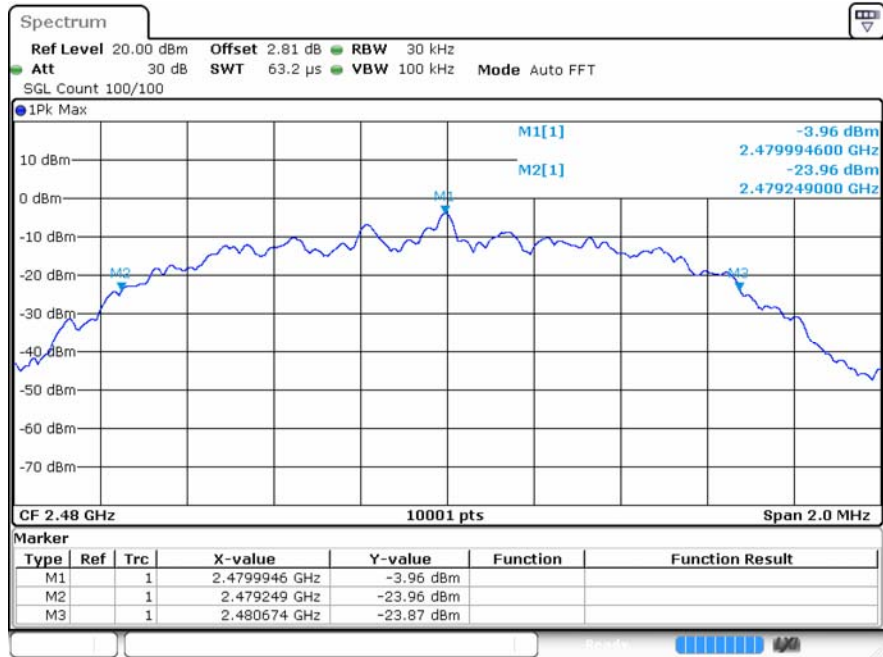
$\pi/4$ DQPSK/LCH



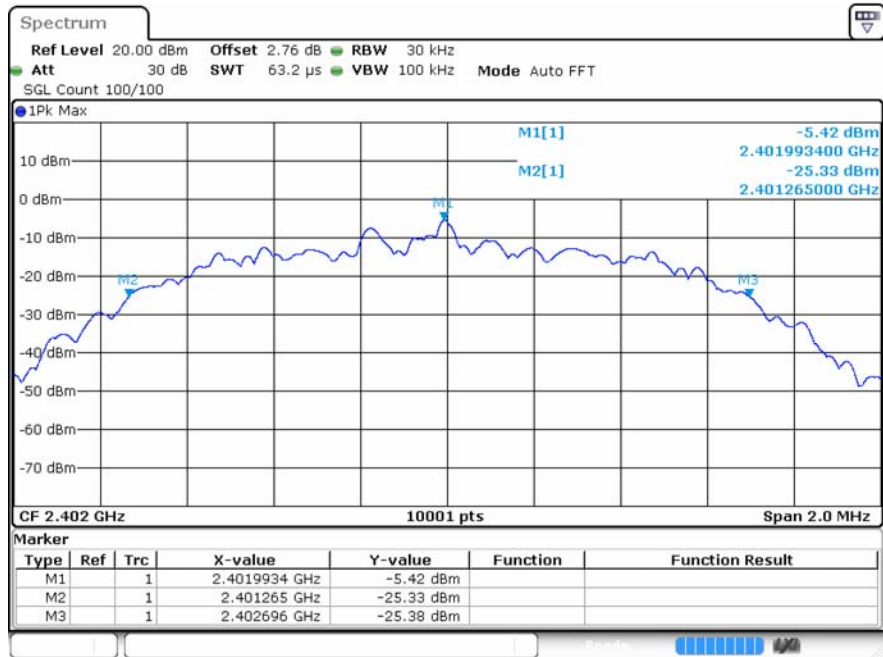
$\pi/4$ DQPSK/MCH



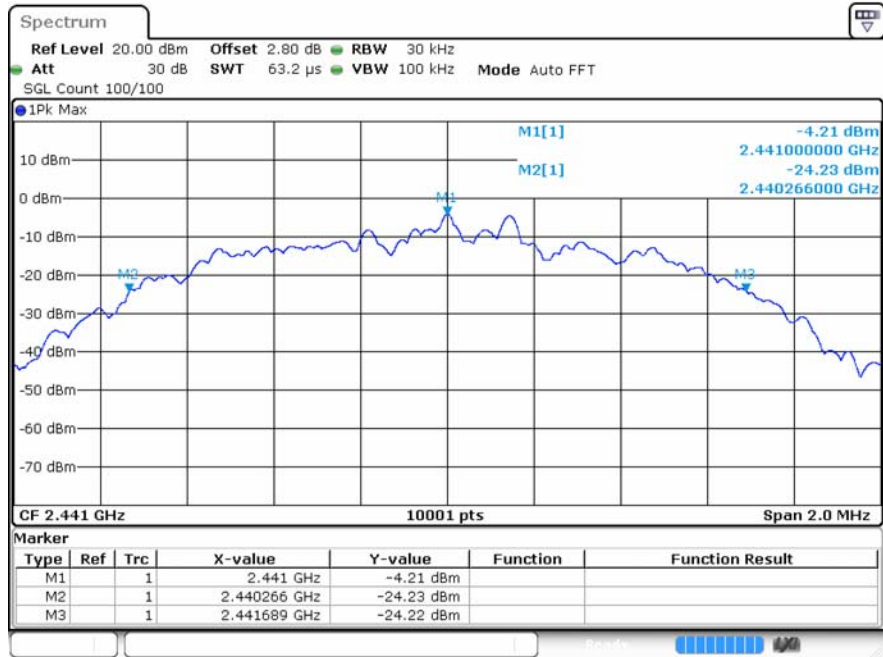
$\pi/4$ DQPSK/HCH



8DPSK/LCH

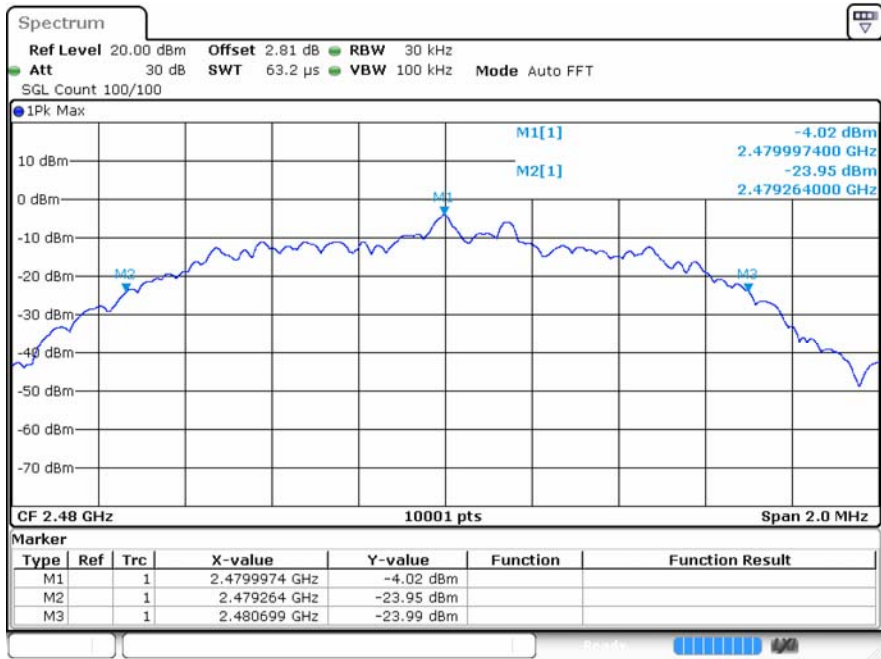


8DPSK/MCH





8DPSK/HCH

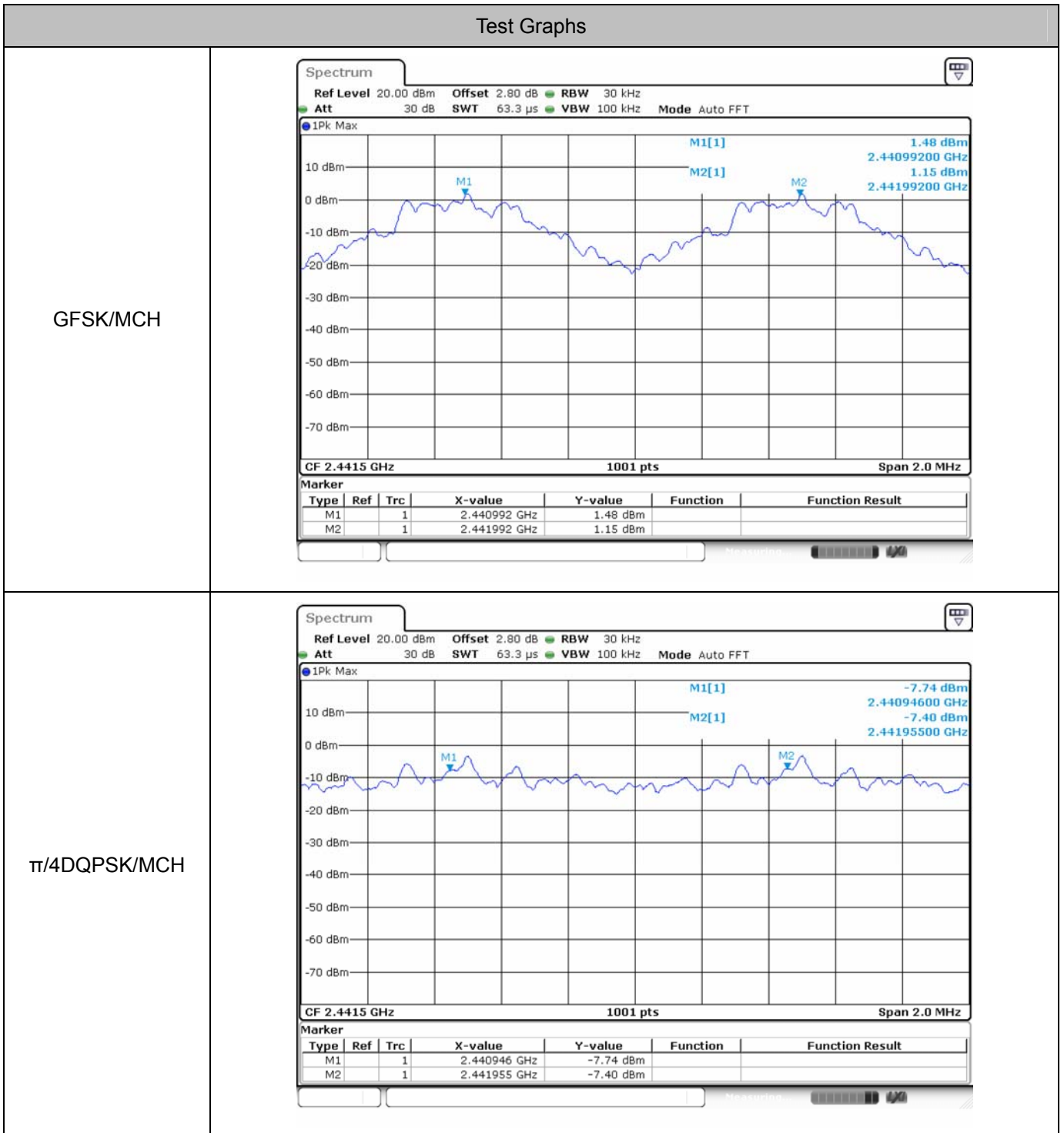


4 Carrier Frequency Separation

4.1 Test Result

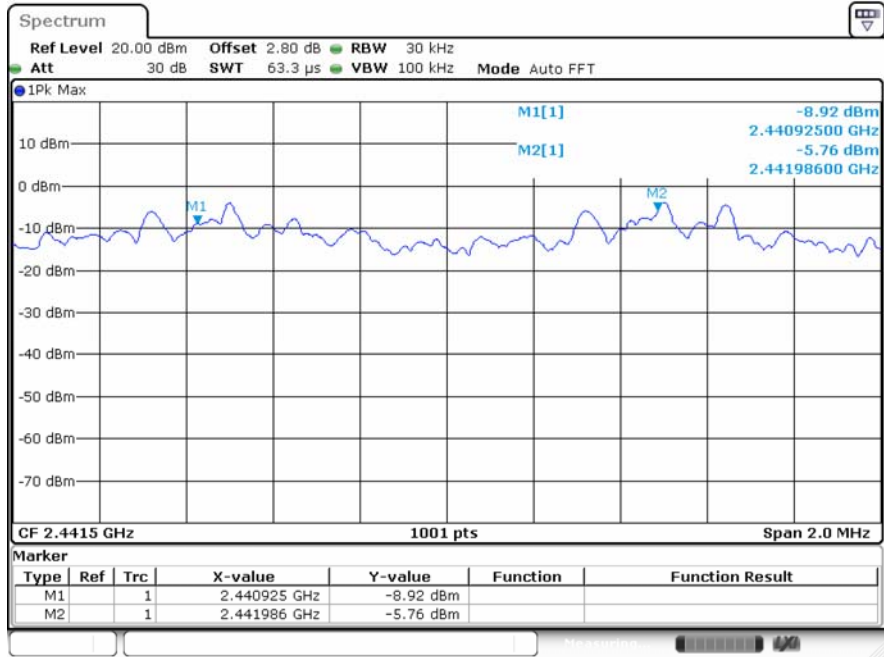
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	1	0.584	Pass
$\pi/4$ DQPSK	MCH	1.009	0.933	Pass
8DPSK	MCH	1.061	0.949	Pass

4.2 Test Graphs





8DPSK/MCH

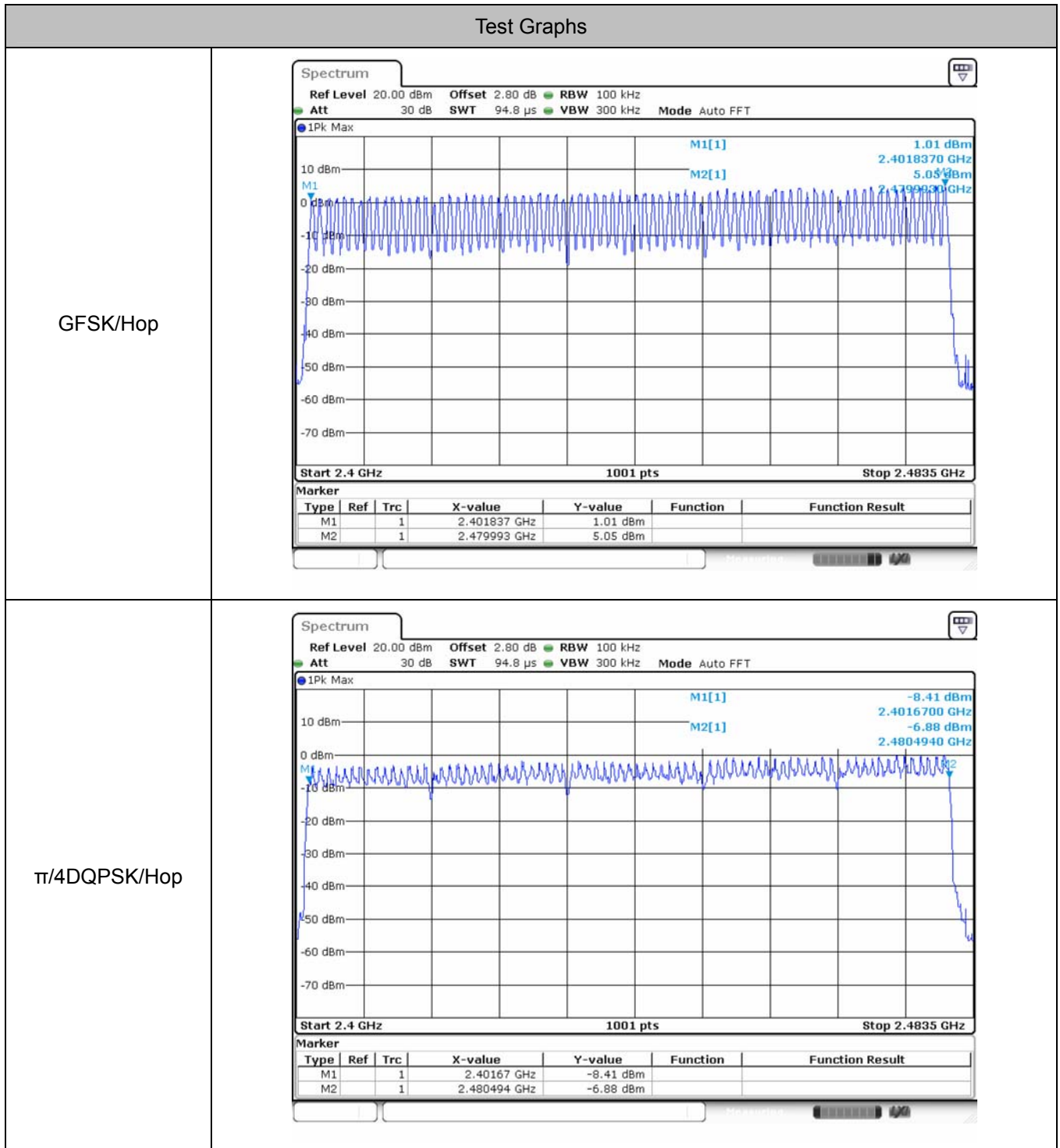


5 Hopping Channel Number

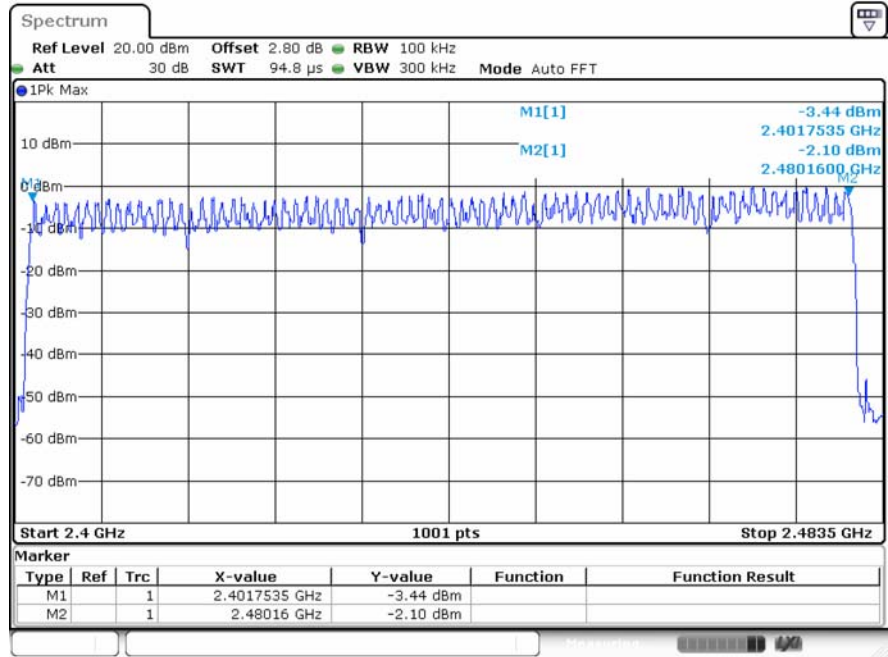
5.1 Test Result

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

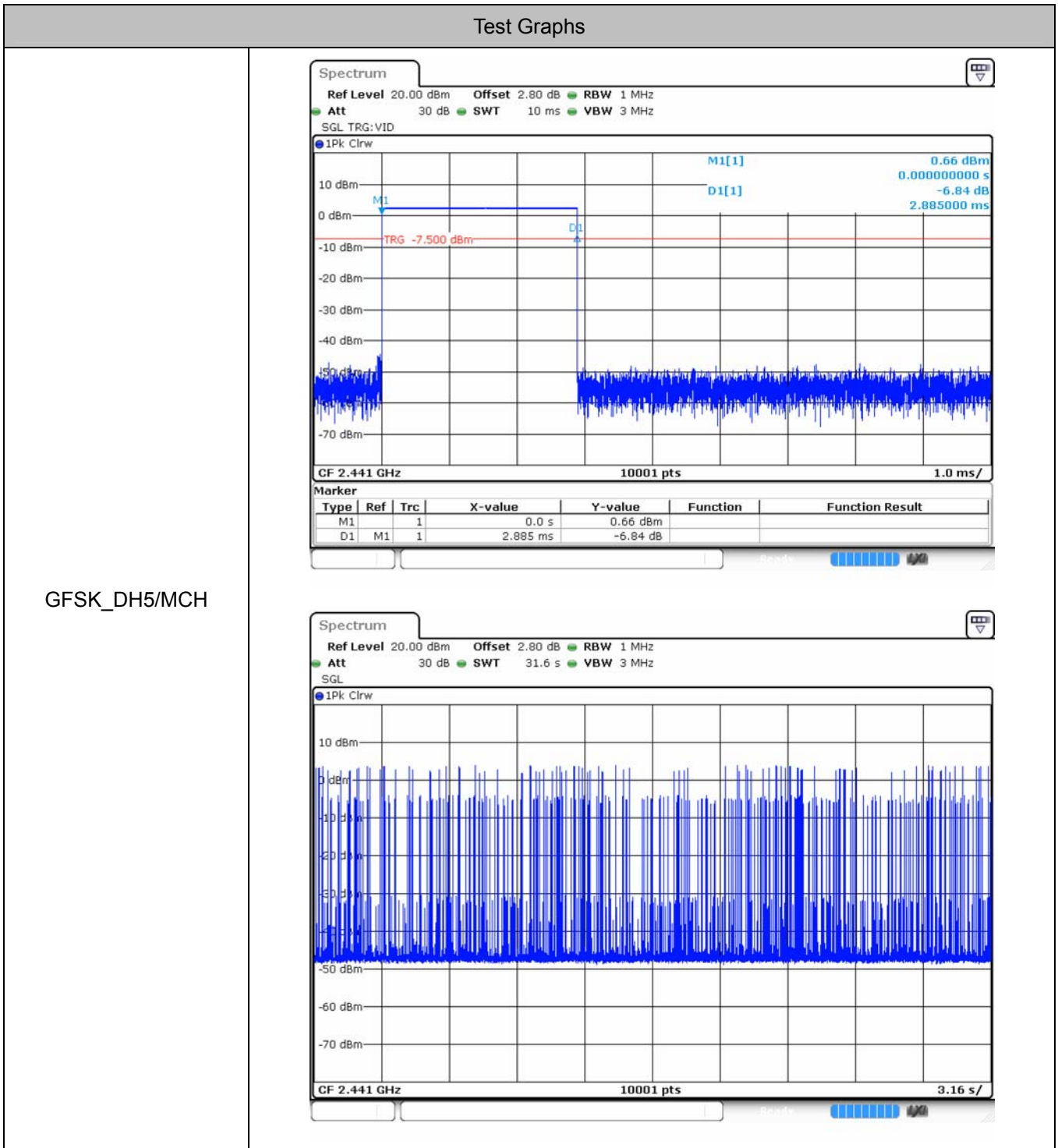


6 Dwell Time

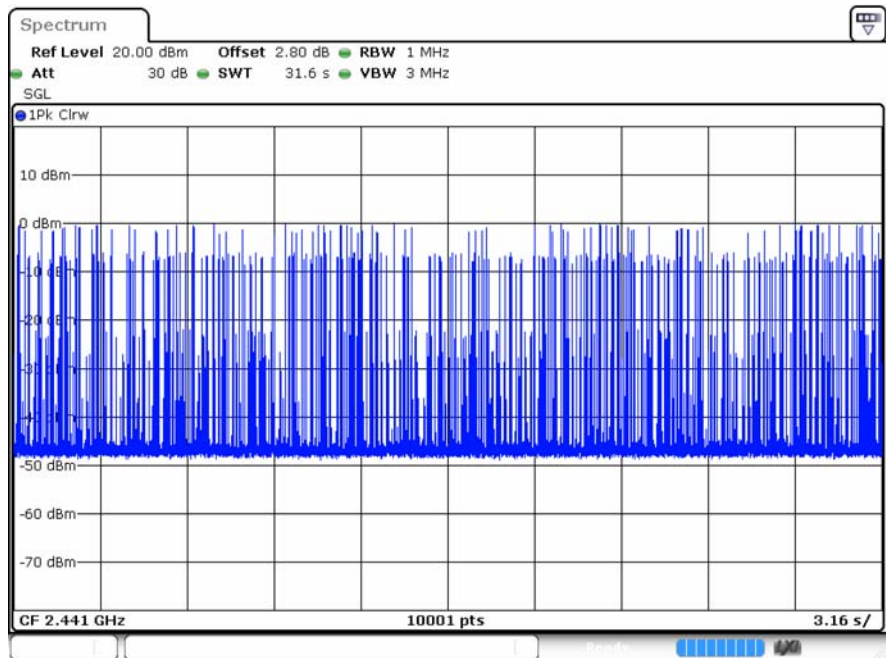
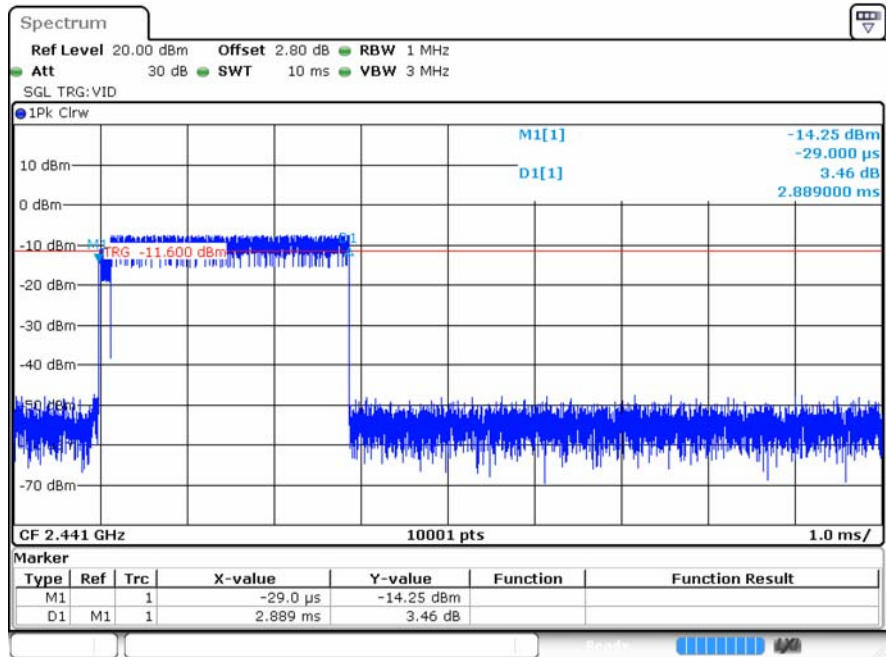
6.1 Test Result

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Limit [s]	Verdict
GFSK	DH5	MCH	2.885	99	285.615	0.4	Pass
$\pi/4$ DQPSK	2DH5	MCH	2.889	97	280.233	0.4	Pass
8DPSK	3DH5	MCH	2.892	102	294.984	0.4	Pass

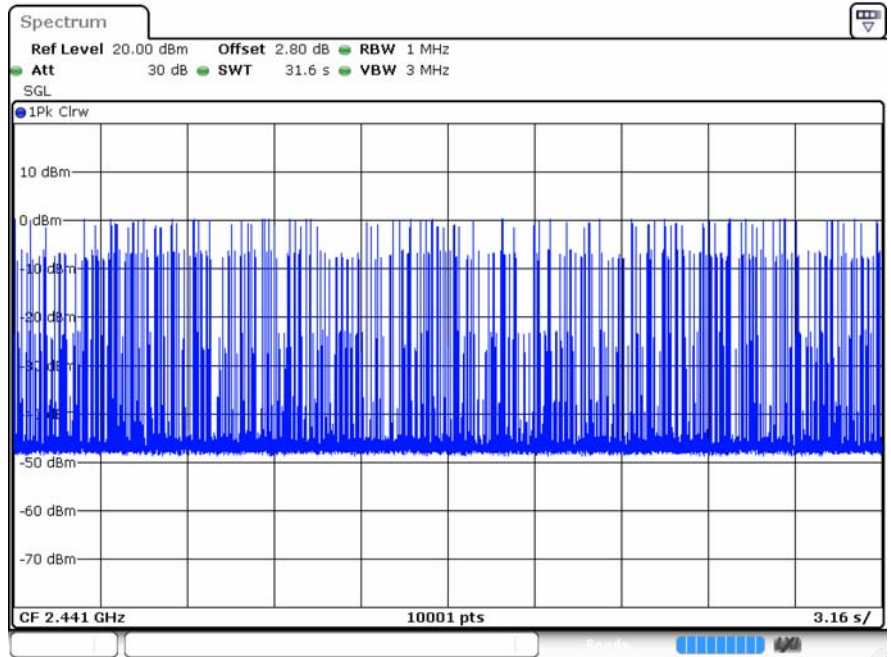
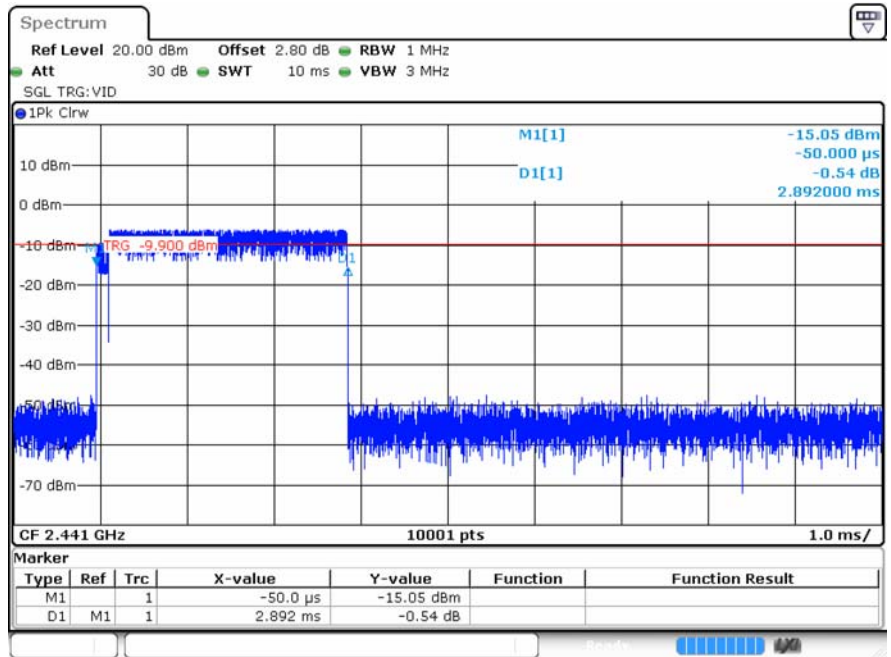
6.2 Test Graphs



$\pi/4$ DQPSK
_2DH5/MCH



8DPSK_3DH5/MCH

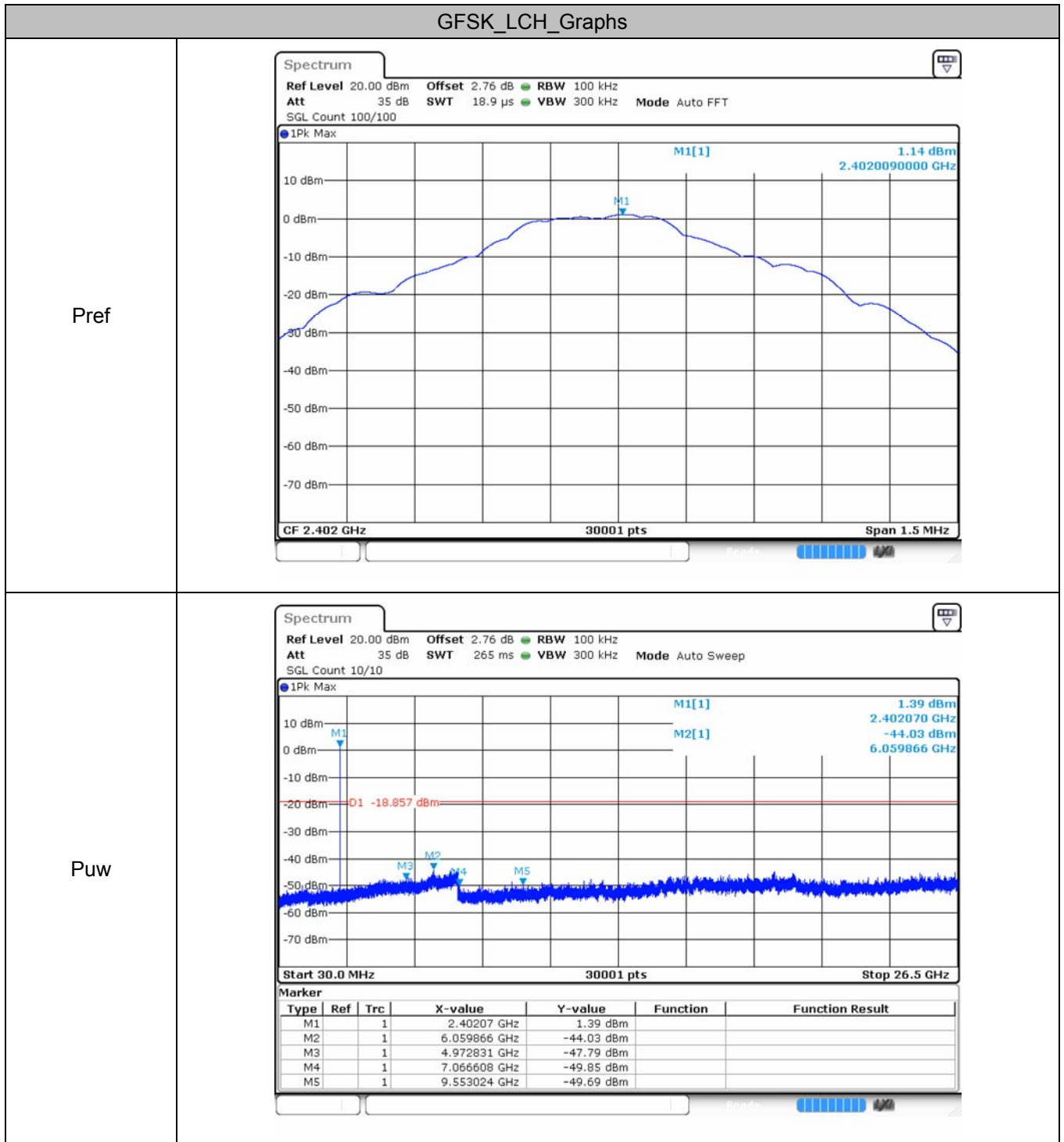


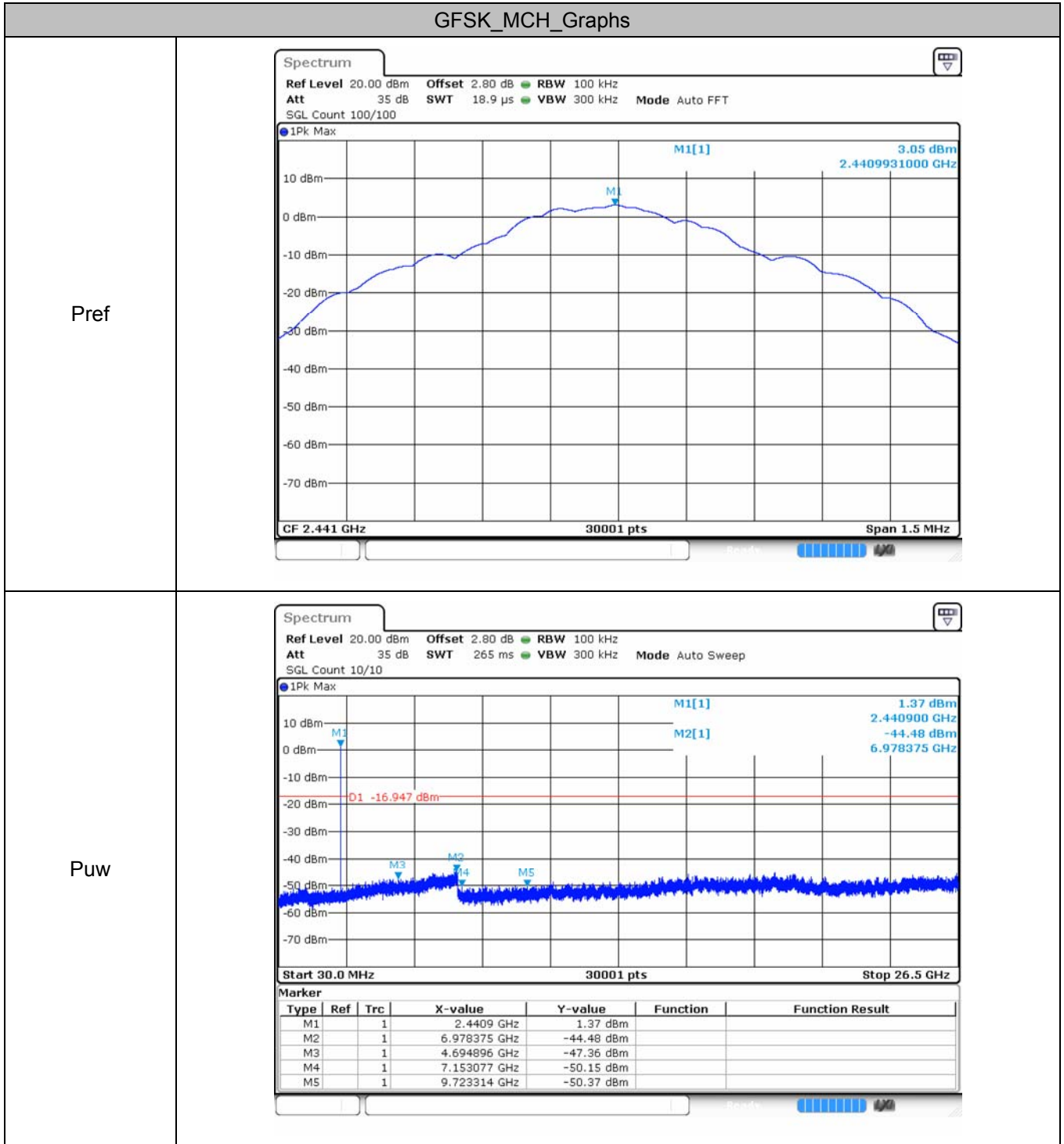
7 RF Conducted Spurious Emissions

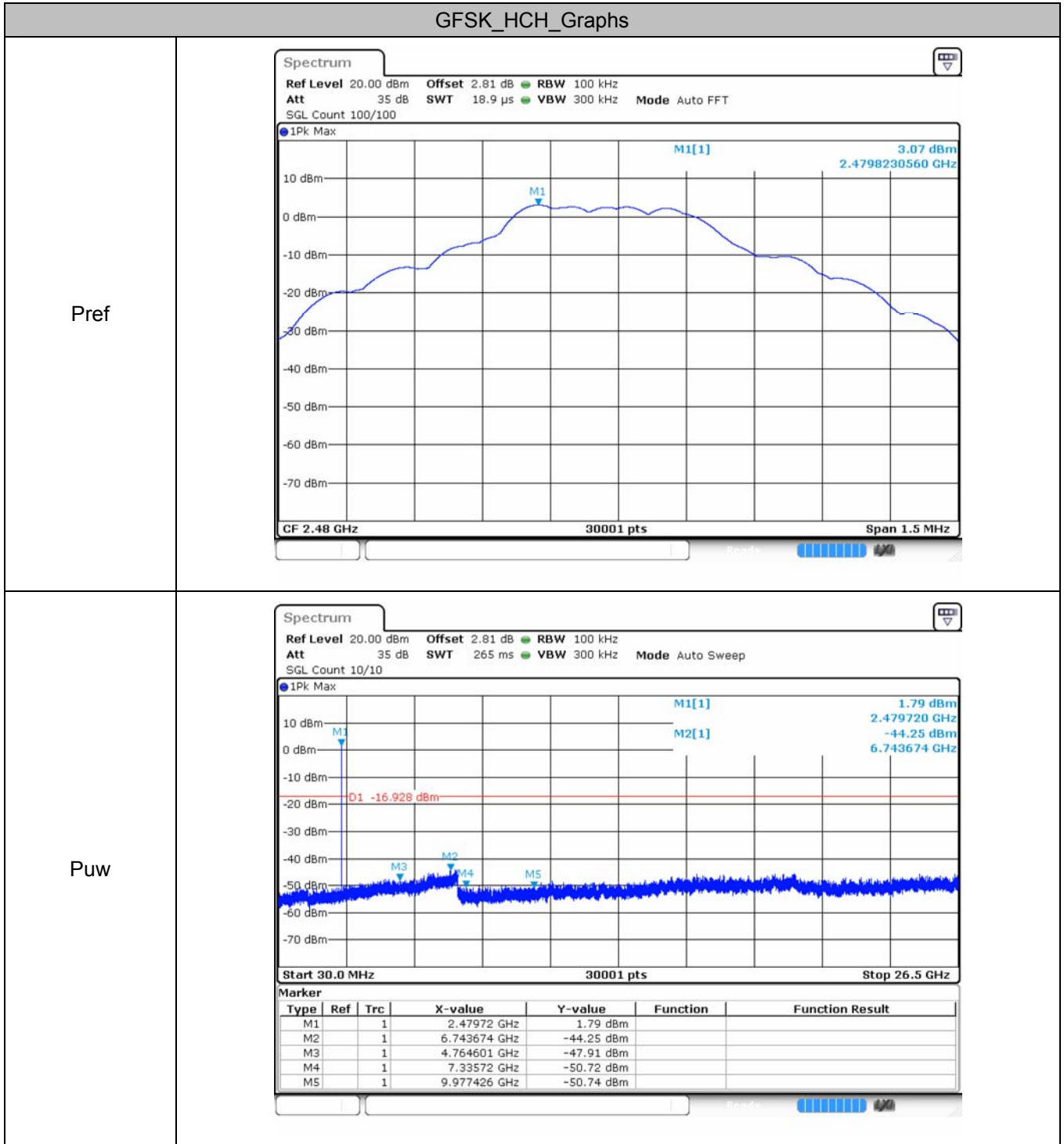
7.1 Test Result

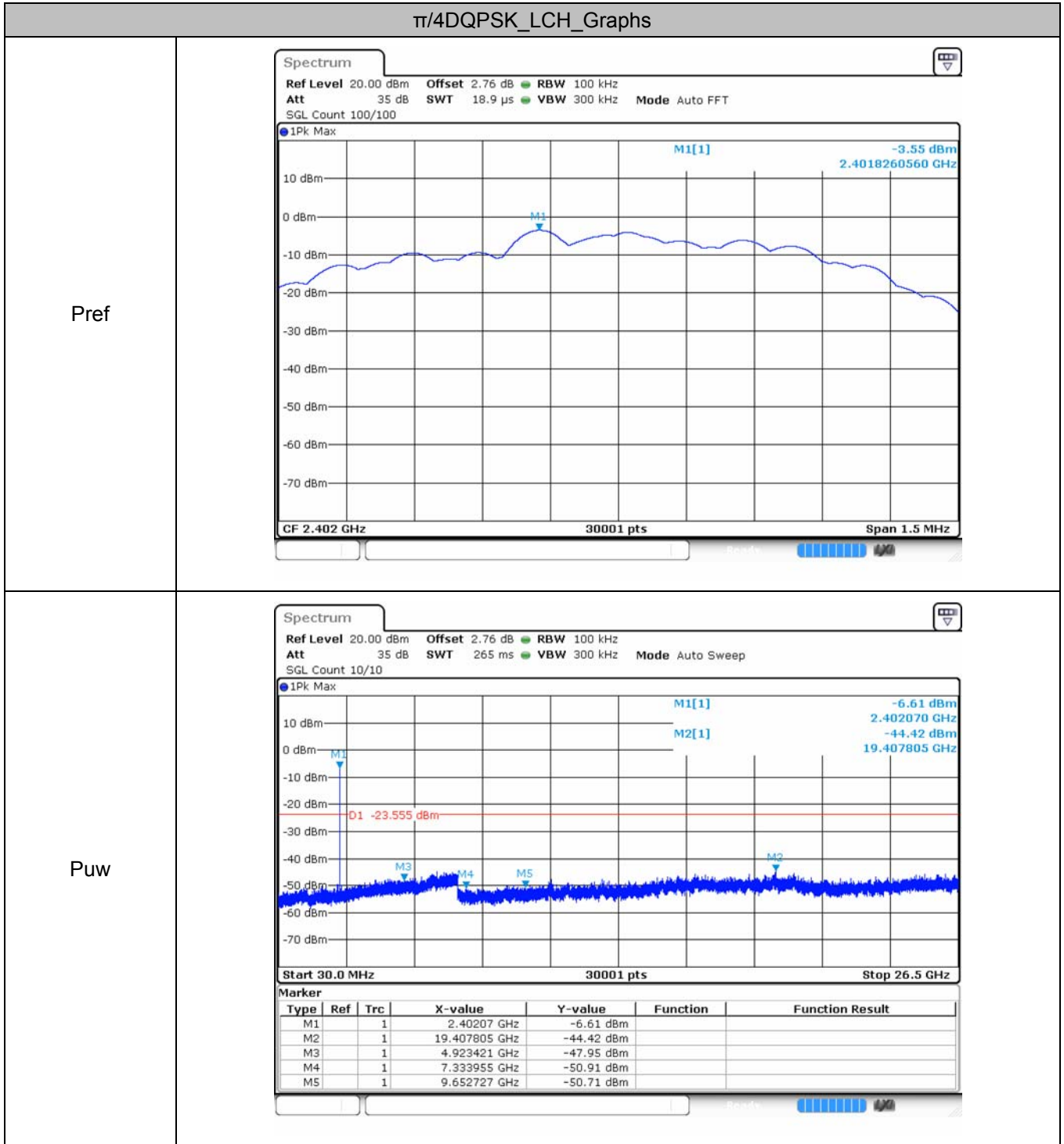
Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-45.16	-20	Pass
	MCH	-47.53	-20	Pass
	HCH	-47.31	-20	Pass
$\pi/4$ DQPSK	LCH	-40.87	-20	Pass
	MCH	-41.74	-20	Pass
	HCH	-42.21	-20	Pass
8DPSK	LCH	-40.29	-20	Pass
	MCH	-41.6	-20	Pass
	HCH	-42.89	-20	Pass

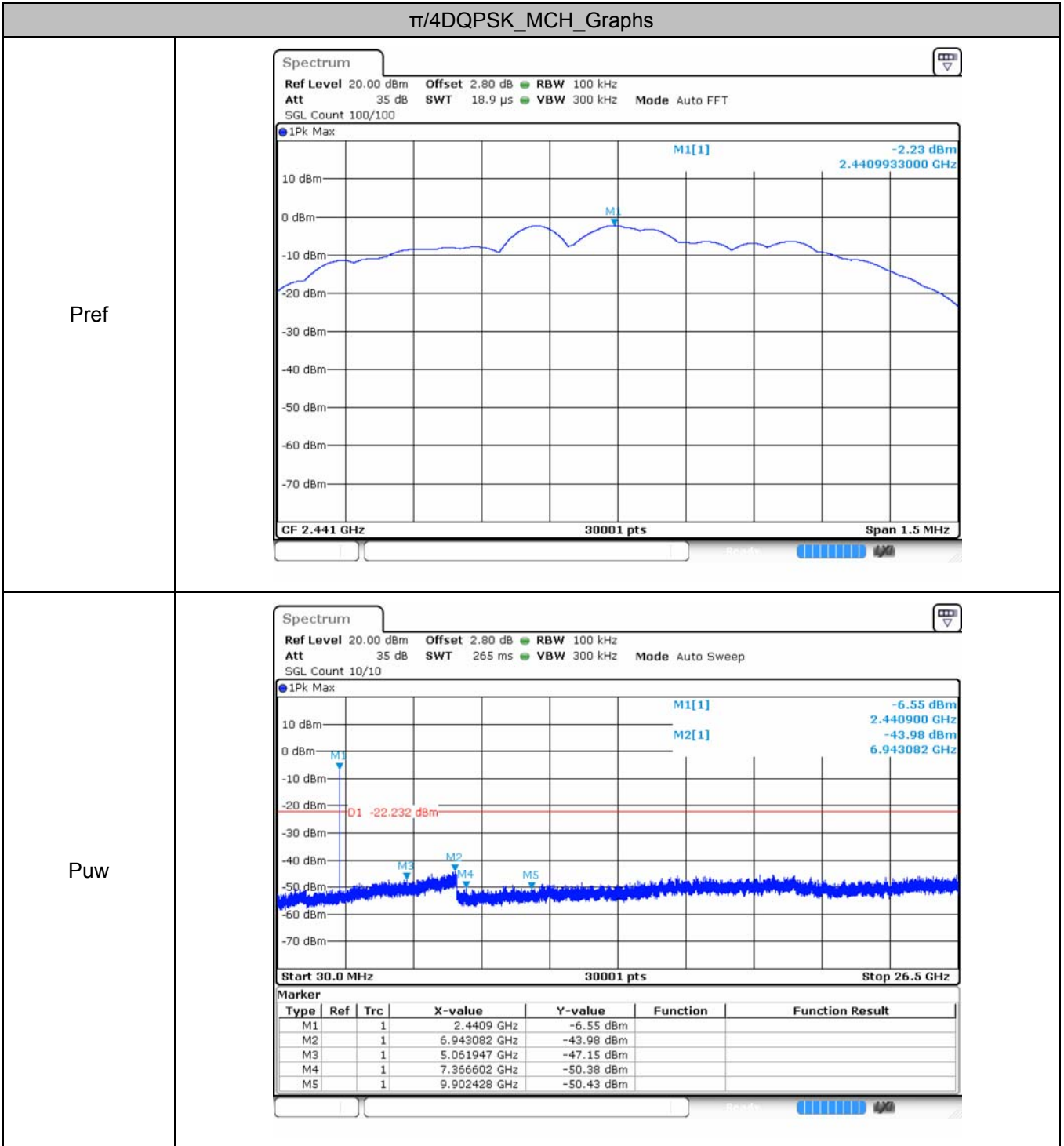
7.2 Test Graphs





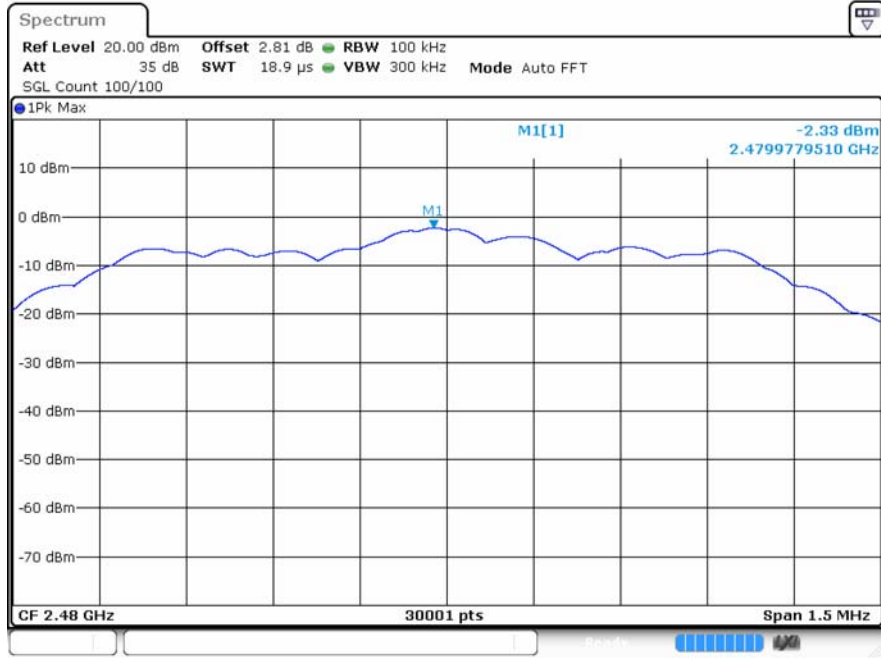




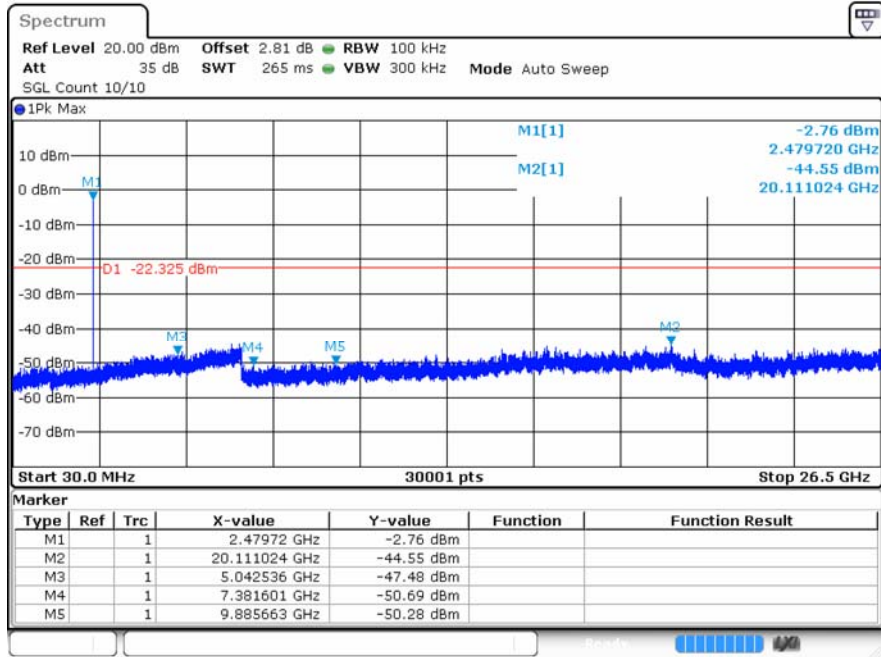


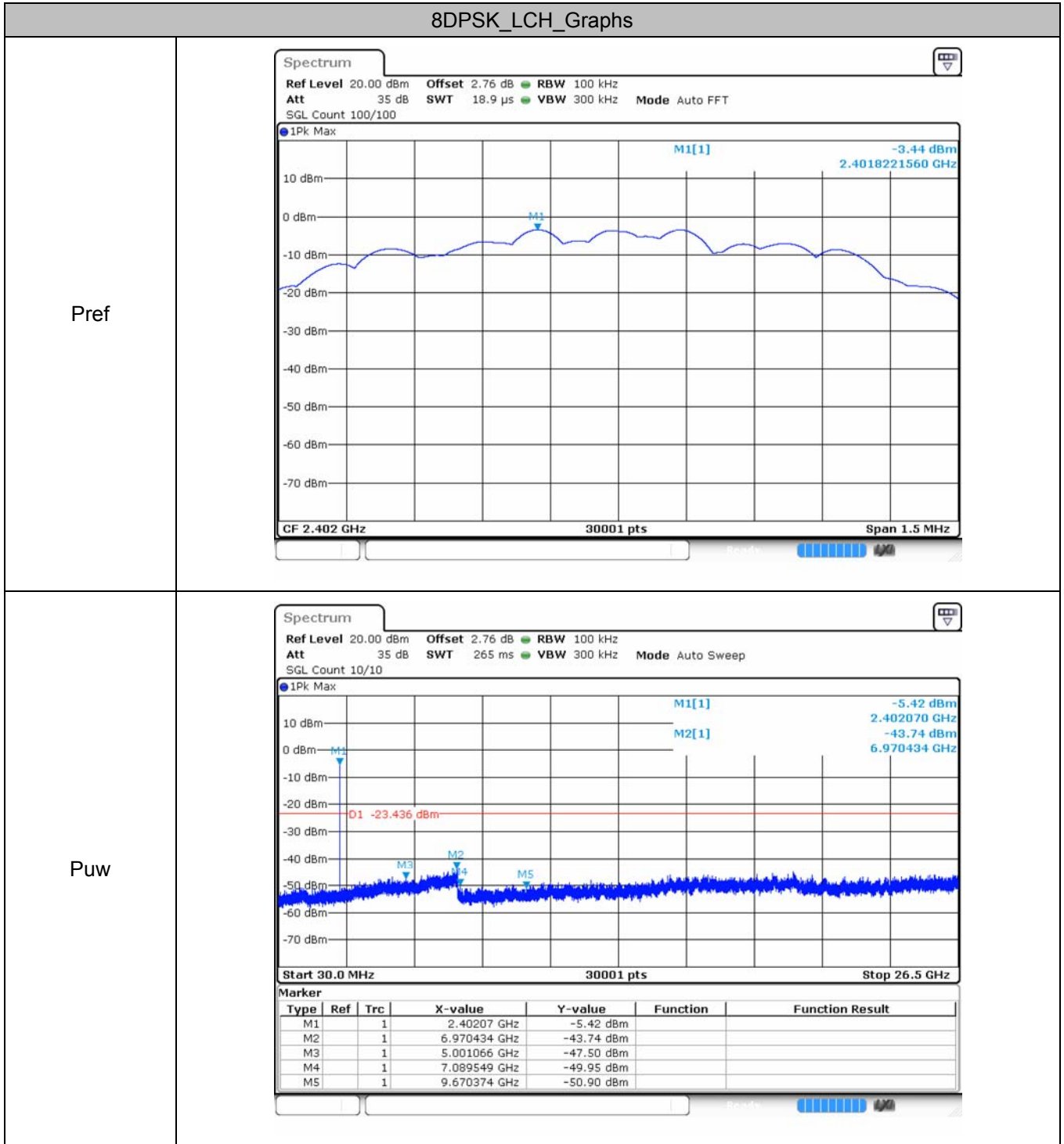
$\pi/4$ DQPSK_HCH_Graphs

Pref



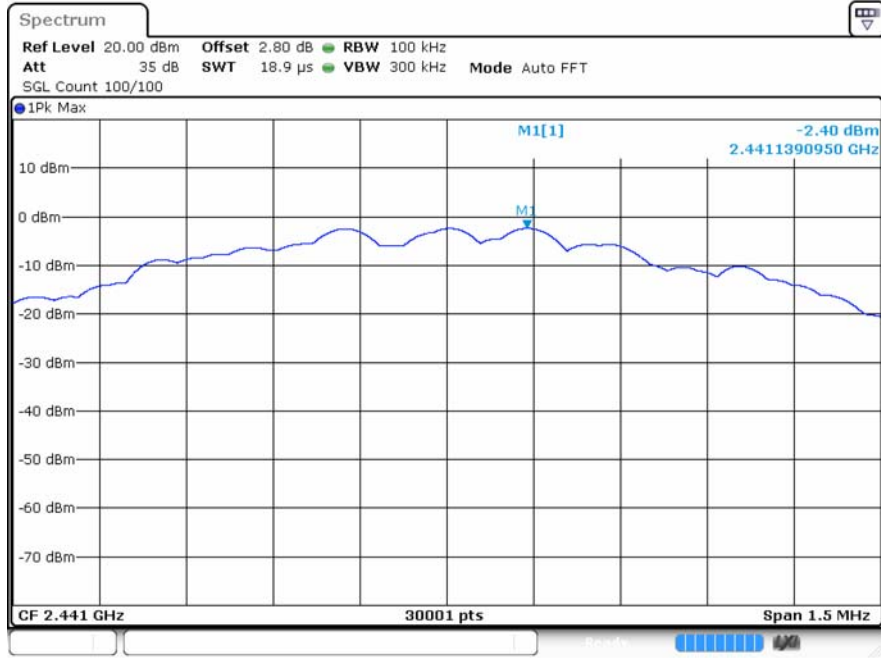
Puw



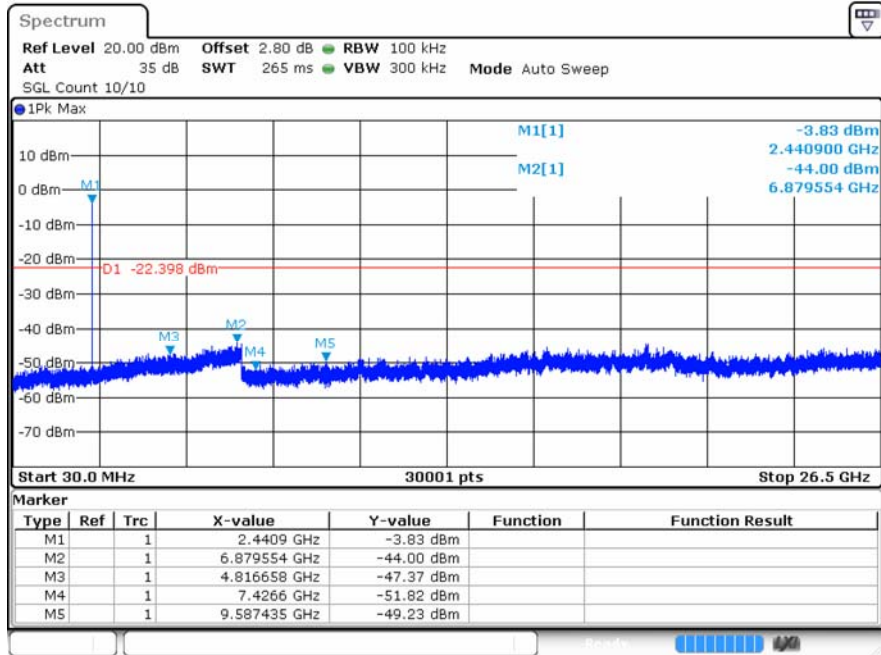


8DPSK_MCH_Graphs

Pref

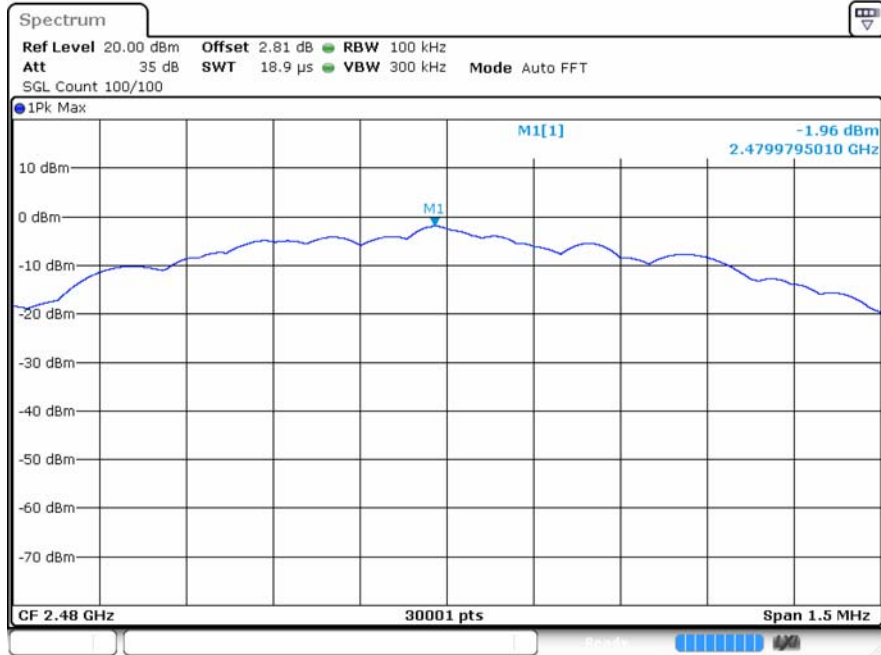


Puw

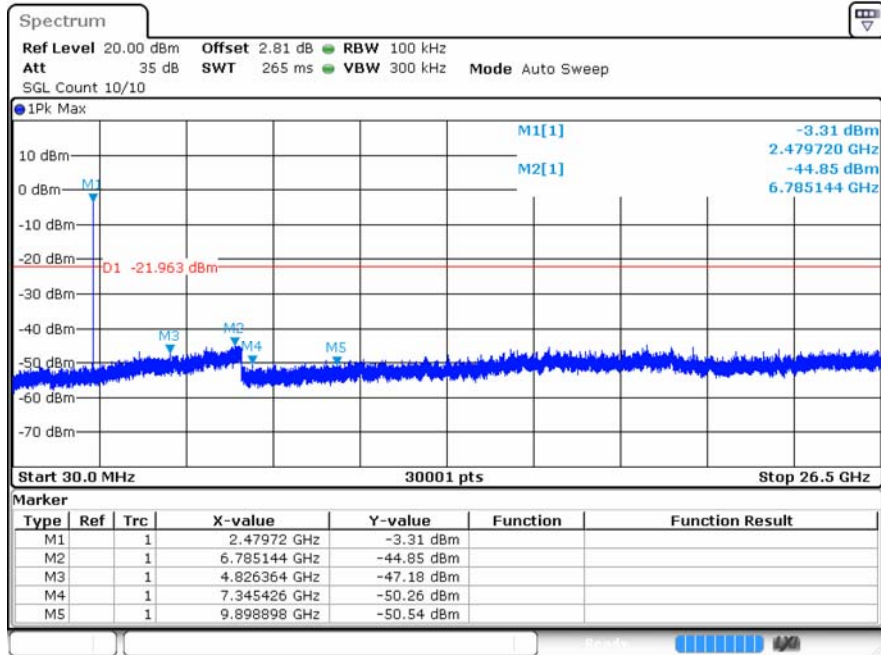


8DPSK_HCH_Graphs

Pref



Puw

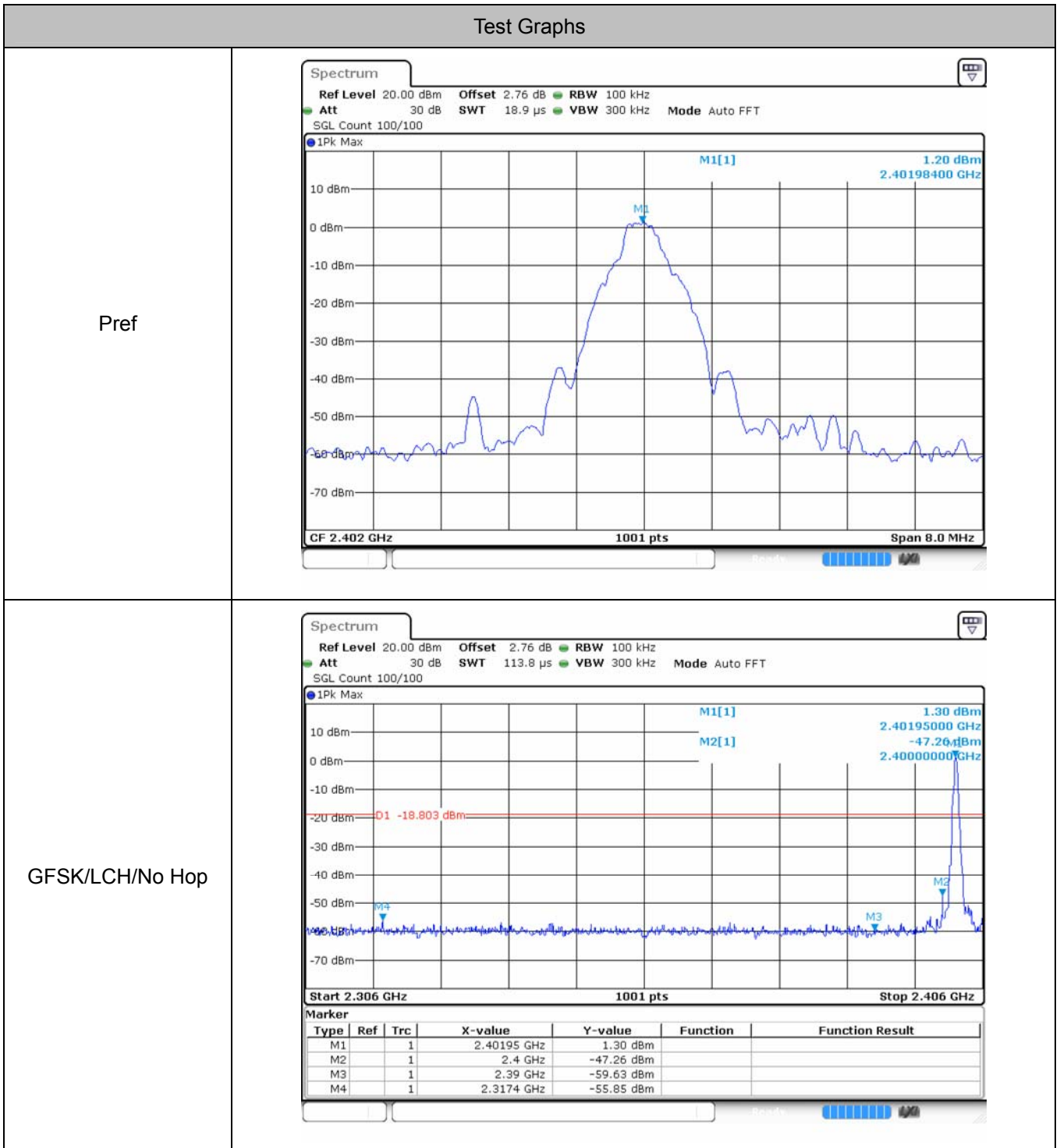


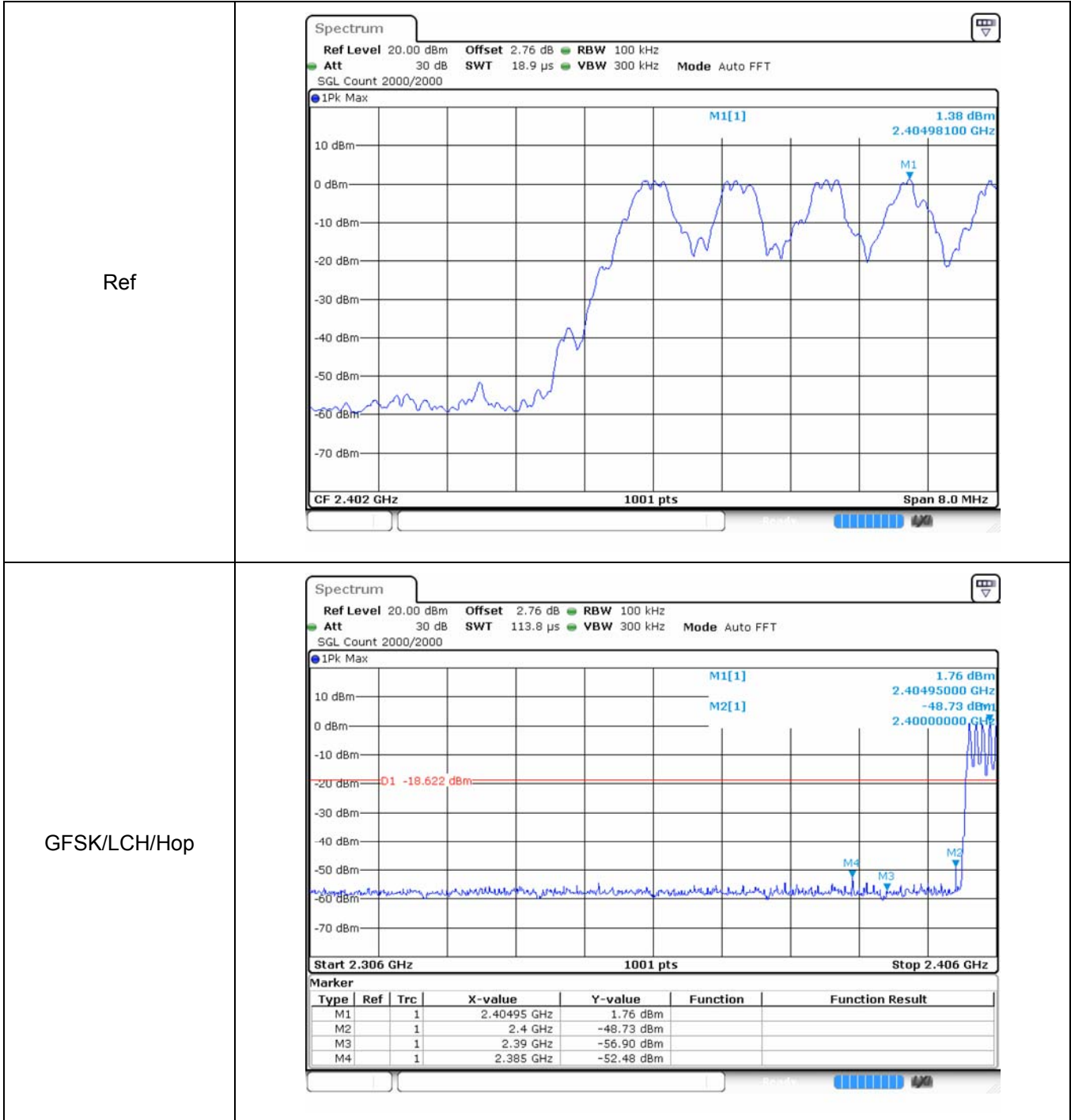
8 Band-edge for RF Conducted Emissions

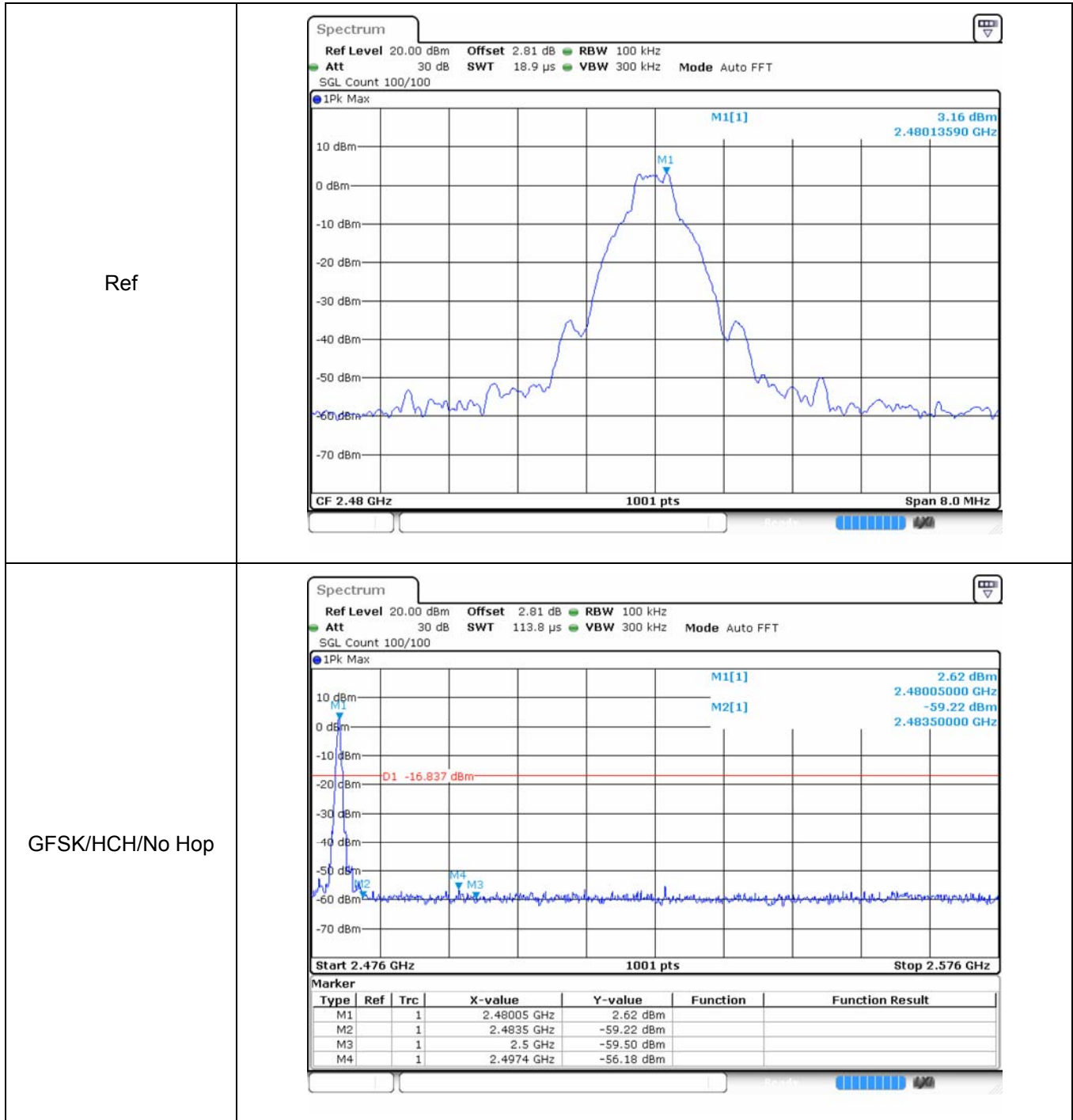
8.1 Test Result

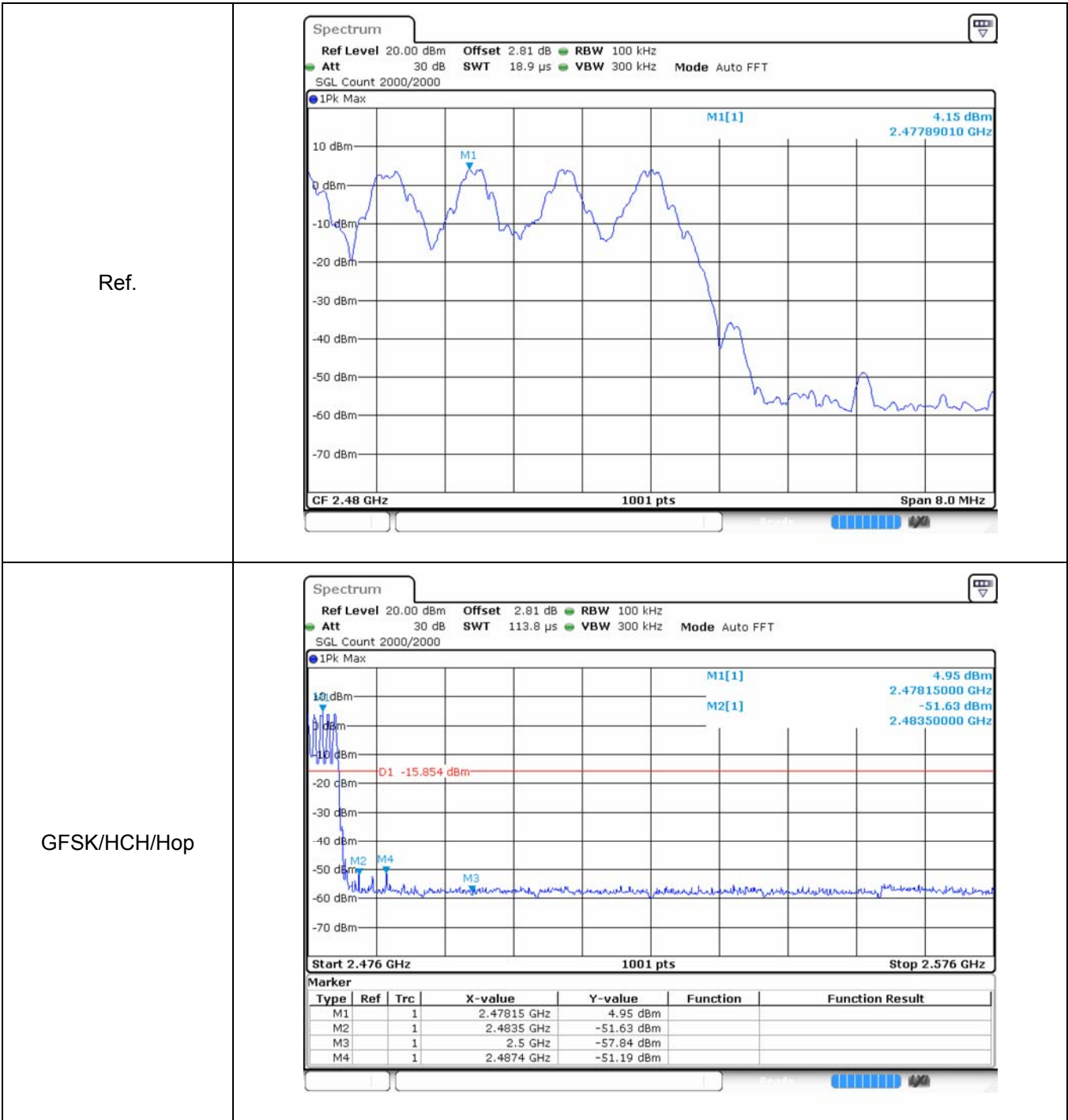
Mode	Channel	Carrier Frequency [MHz]	Frequency Hopping	Max Spurious Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	2402	Off	-57.04	-20	Pass
			On	-53.86	-20	Pass
	HCH	2480	Off	-59.33	-20	Pass
			On	-55.34	-20	Pass
$\pi/4$ DQPSK	LCH	2402	Off	-52.24	-20	Pass
			On	-52.52	-20	Pass
	HCH	2480	Off	-47.95	-20	Pass
			On	-45.97	-20	Pass
8DPSK	LCH	2402	Off	-53.24	-20	Pass
			On	-51.43	-20	Pass
	HCH	2480	Off	-48.61	-20	Pass
			On	-45.52	-20	Pass

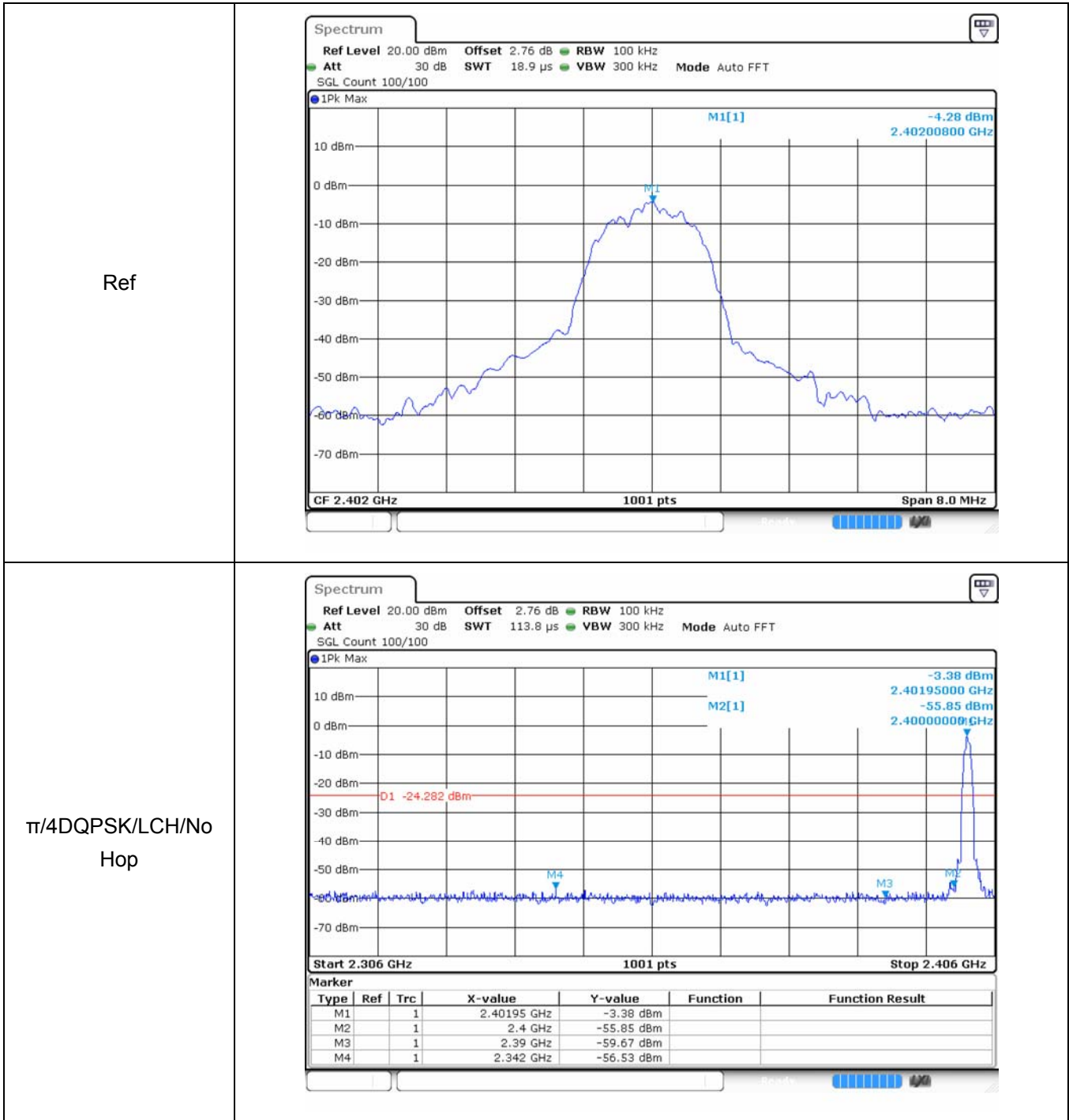
8.2 Test Graphs

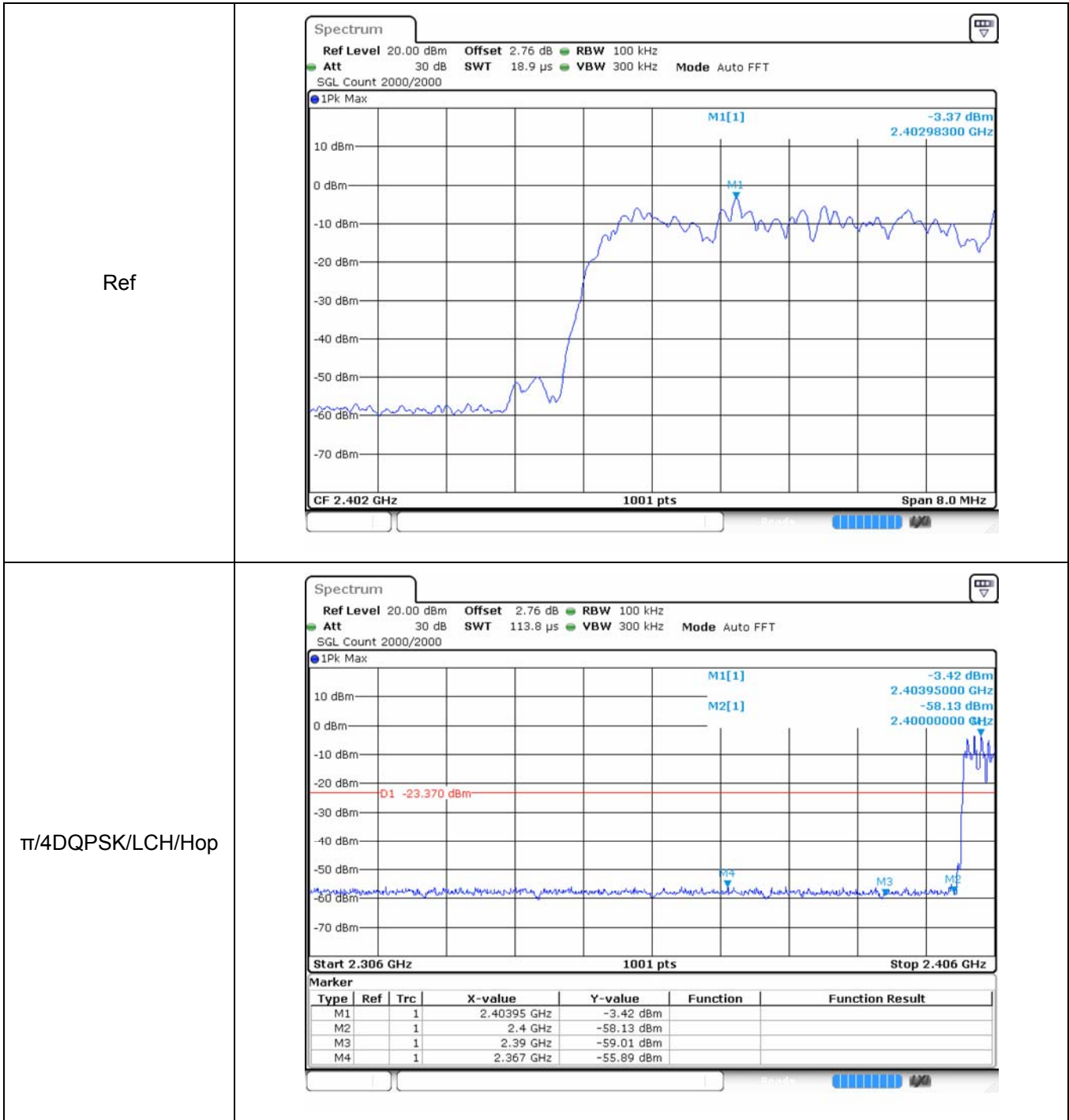


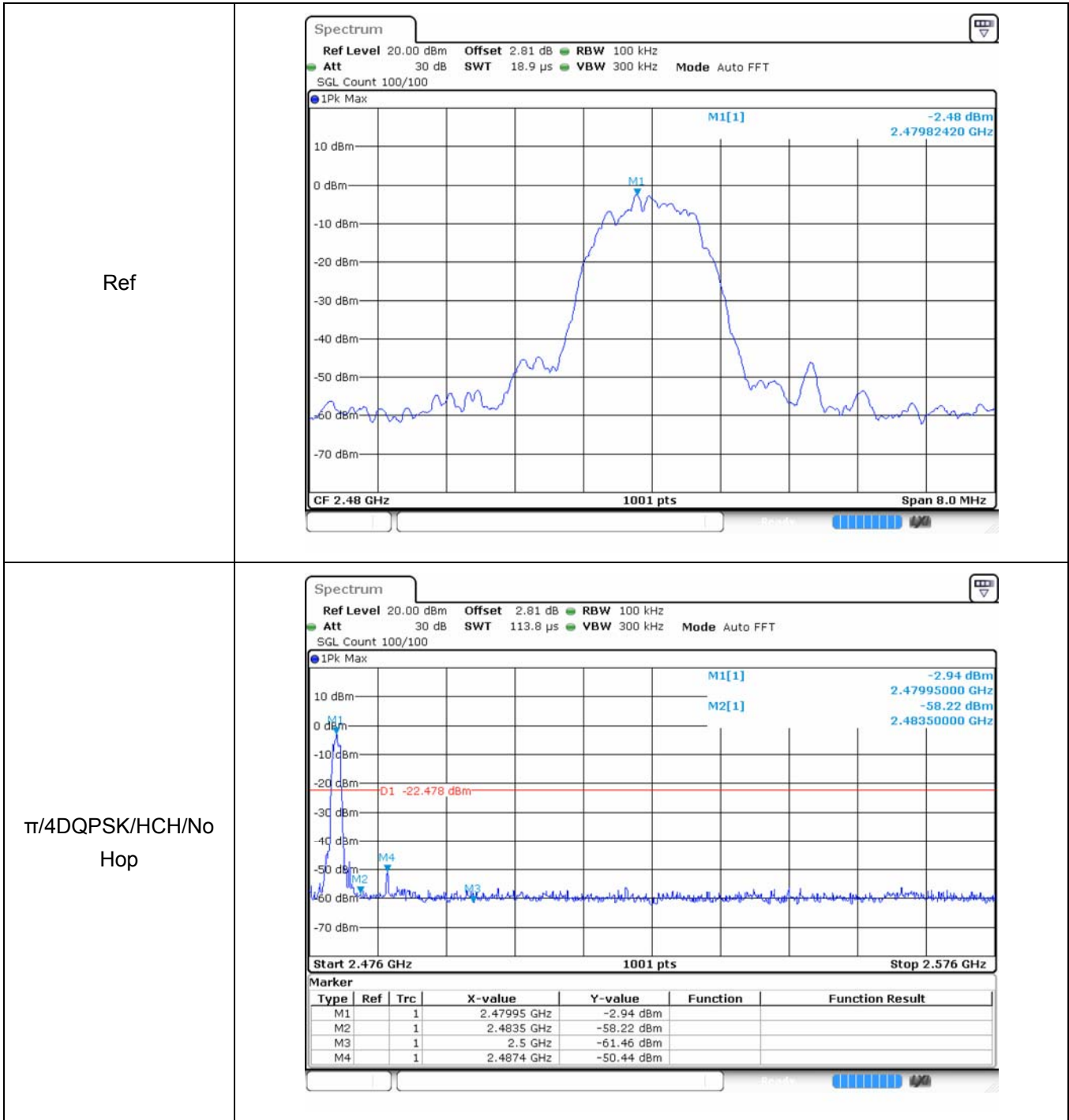


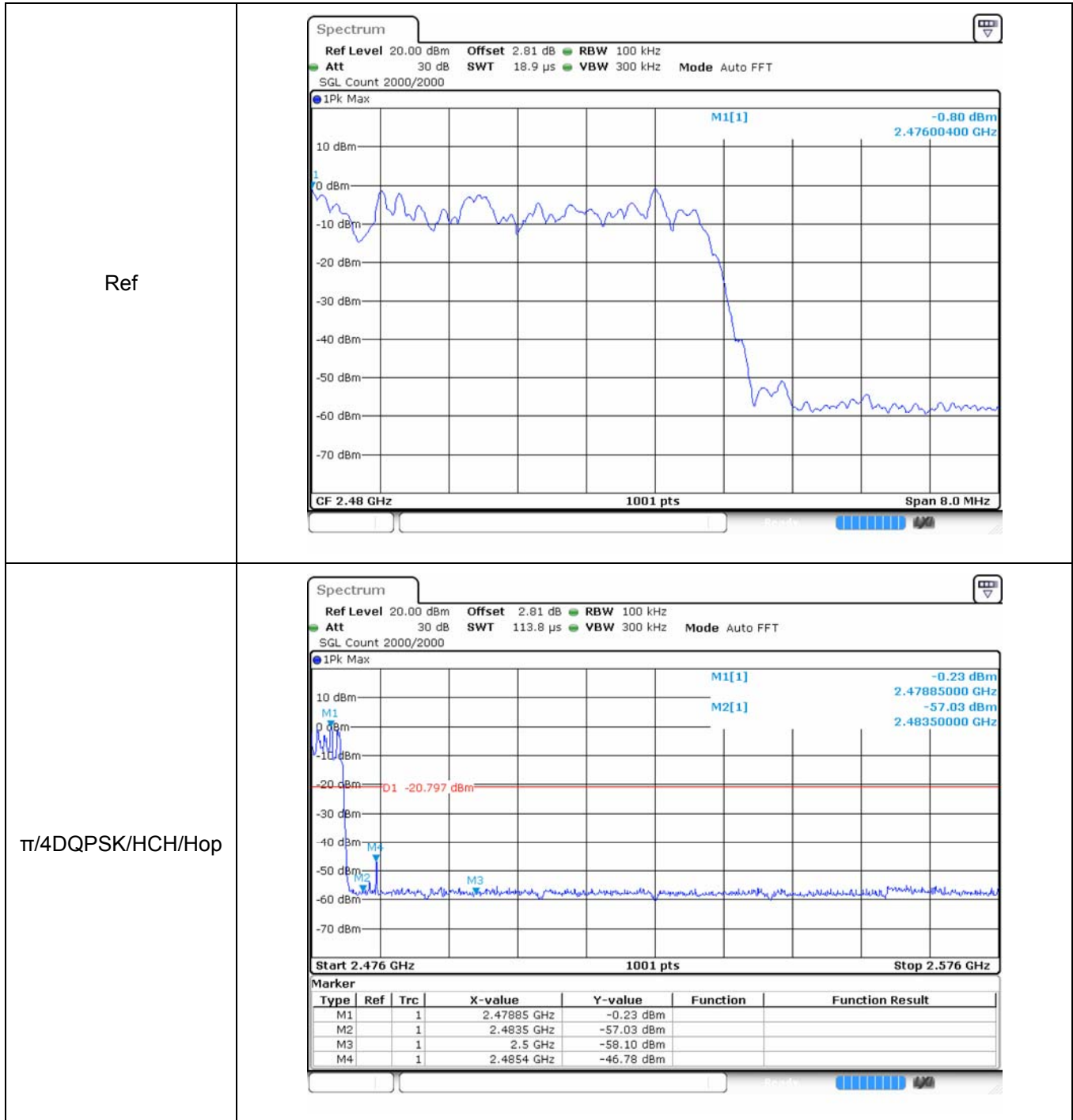


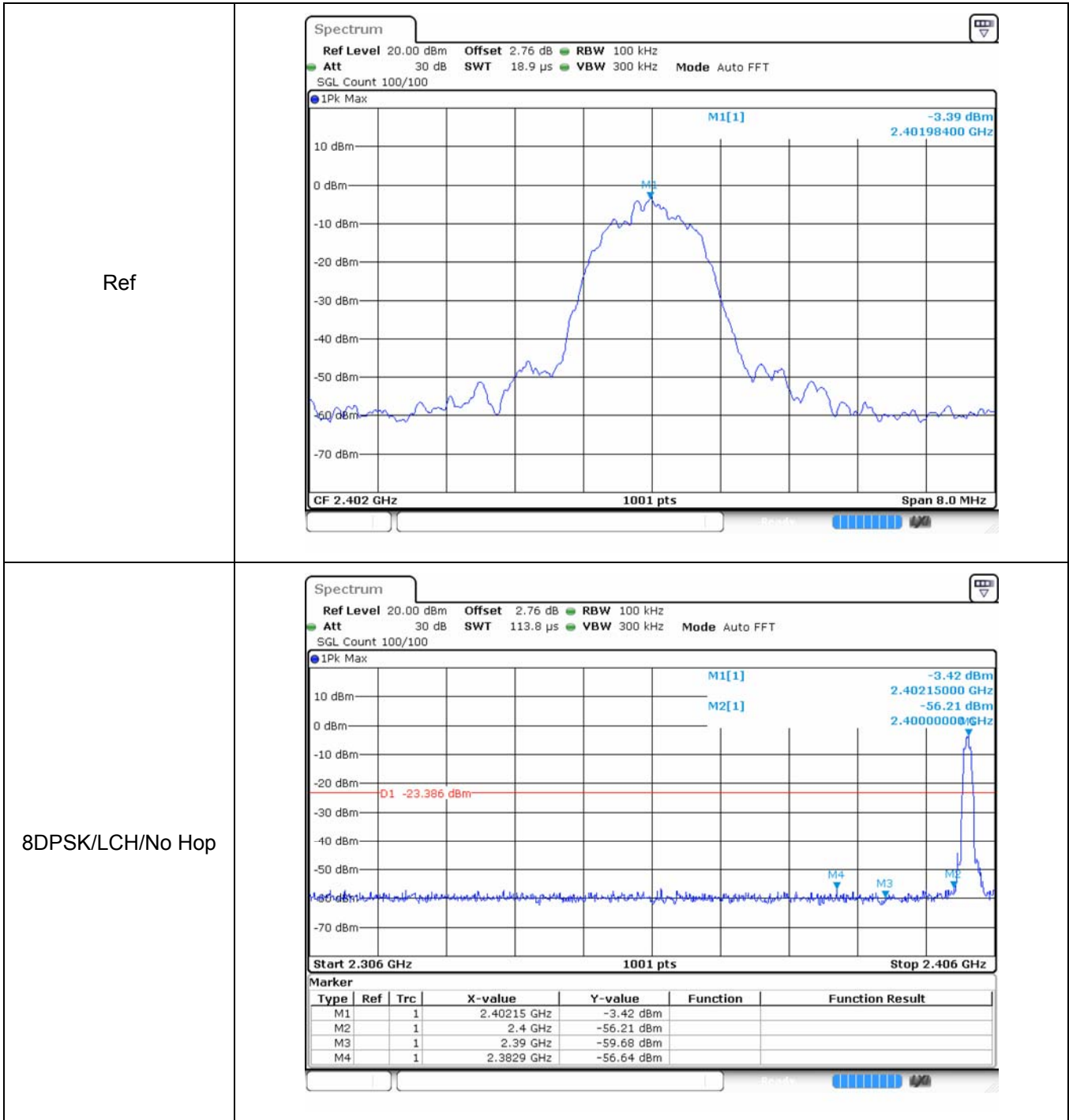


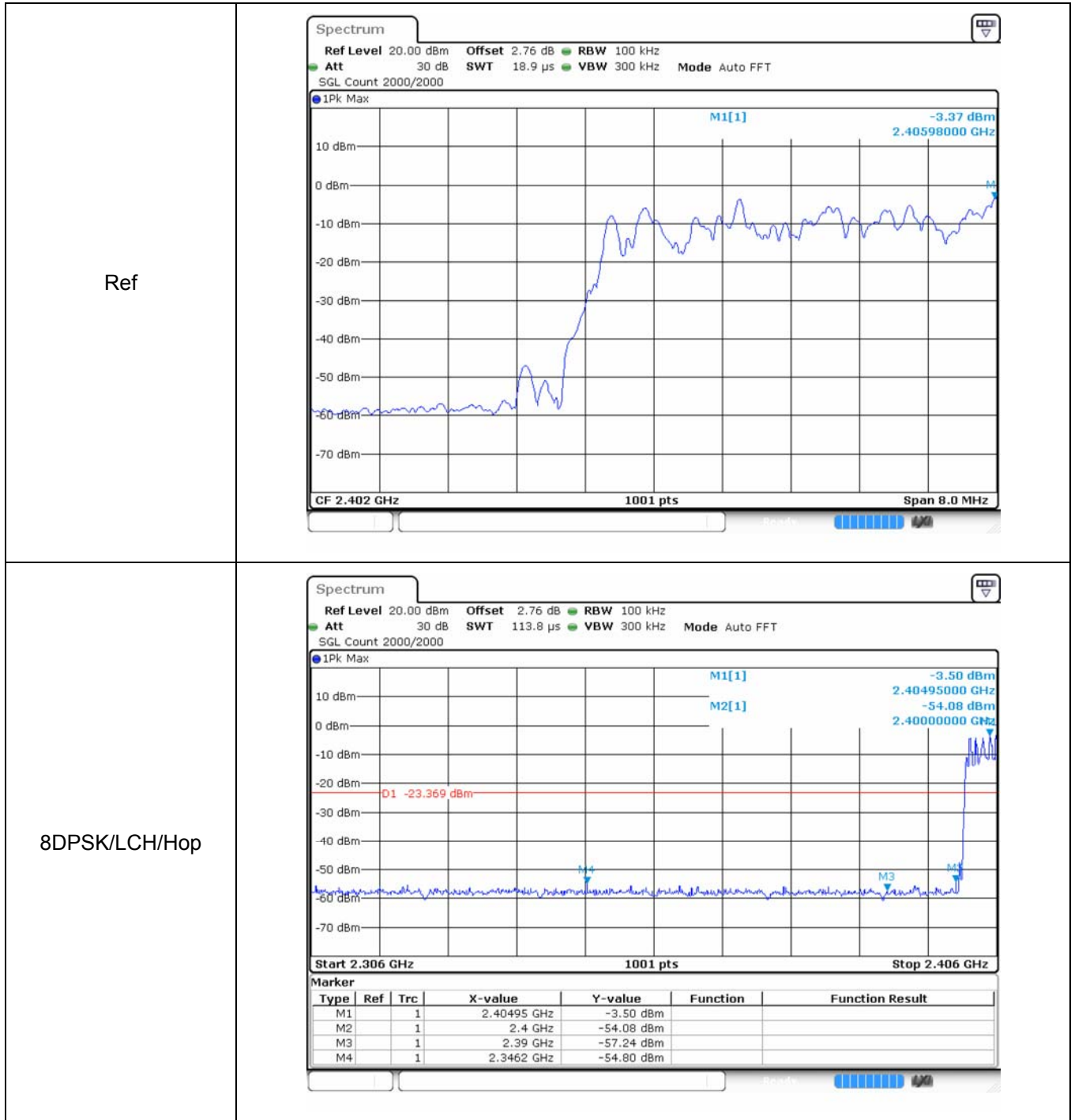


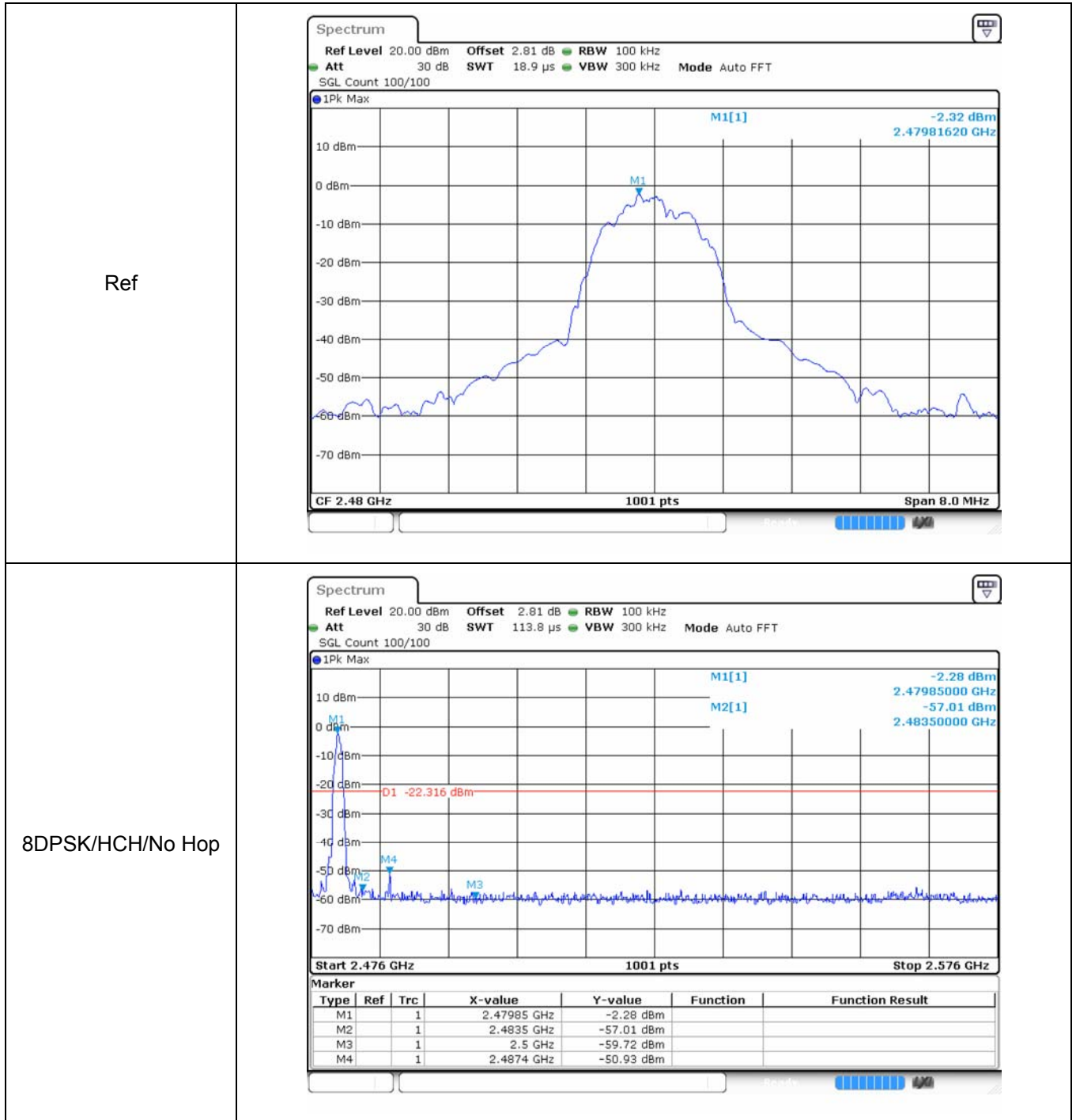


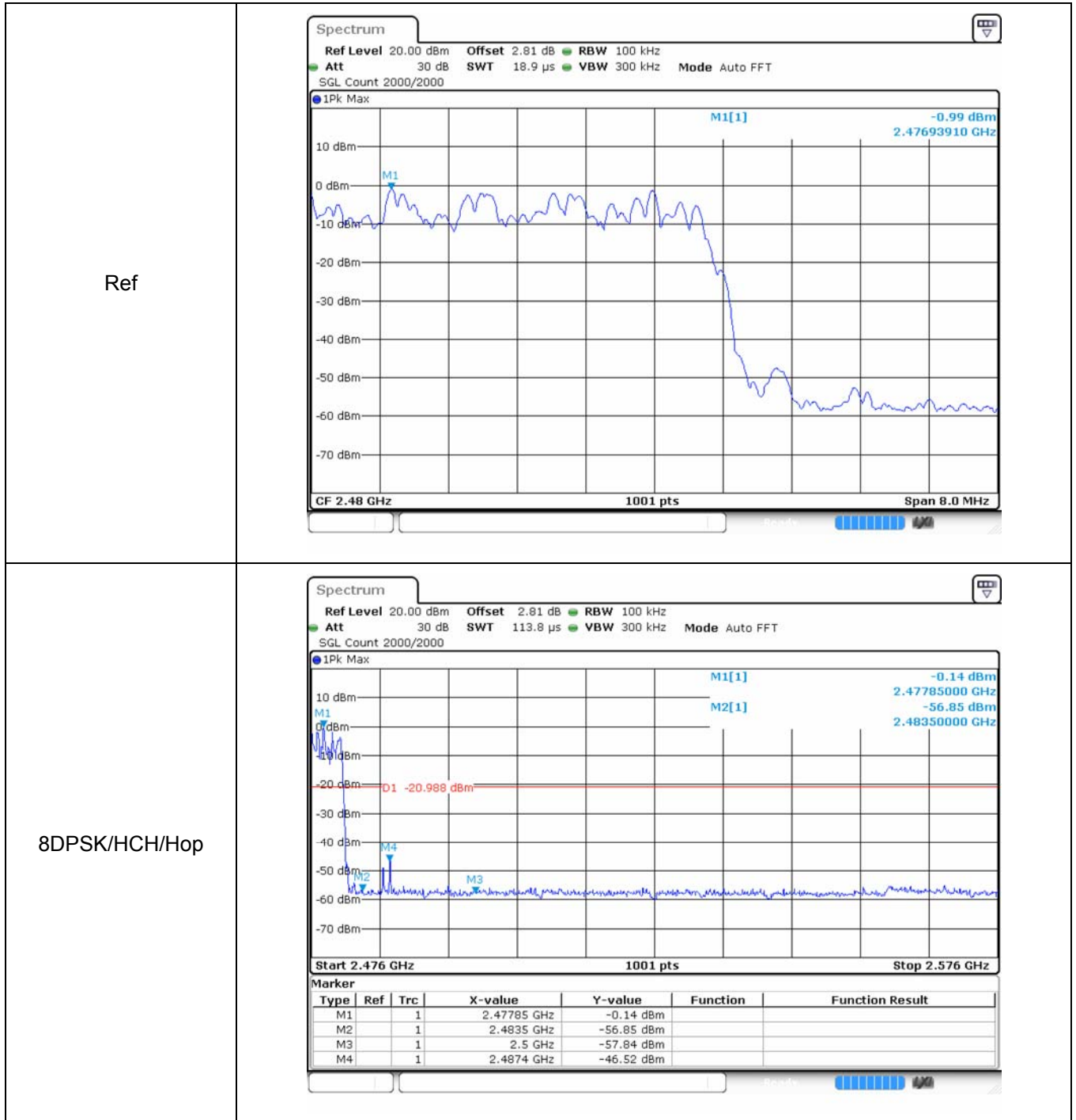












9 Restrict-band band-edge measurements

9.1 Test Result

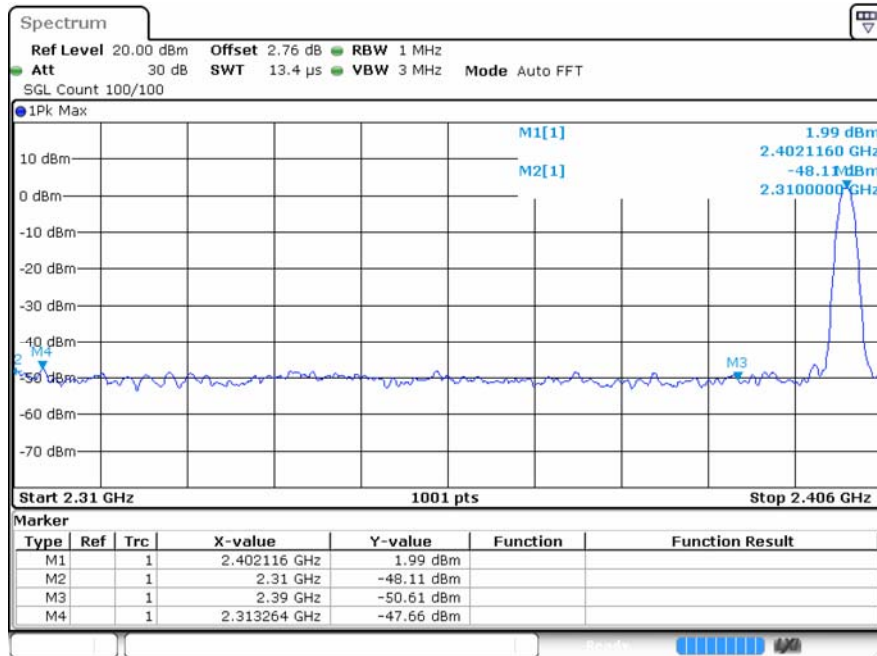
Test Mode	Hopping	Freq.	Power [dBm]	Gain	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-48.1	2	49.16	PEAK	74	Pass
	Off	2310.0	-58.6	2	38.66	AV	54	Pass
	Off	2313.264	-47.65	2	49.61	PEAK	74	Pass
	Off	2342.064	-56.26	2	41	AV	54	Pass
	Off	2390.0	-50.6	2	46.66	PEAK	74	Pass
	Off	2390.0	-58.77	2	38.49	AV	54	Pass
	Off	2483.5	-49.11	2	48.15	PEAK	74	Pass
	Off	2483.5	-55.49	2	41.77	AV	54	Pass
	Off	2483.872	-48.47	2	48.79	PEAK	74	Pass
	Off	2483.512	-55.49	2	41.77	AV	54	Pass
	Off	2500.0	-50.83	2	46.43	PEAK	74	Pass
	Off	2500.0	-58.19	2	39.07	AV	54	Pass
$\pi/4$ DQPSK	Off	2310.0	-50.85	2	46.41	PEAK	74	Pass
	Off	2310.0	-58.46	2	38.8	AV	54	Pass
	Off	2338.032	-46.96	2	50.3	PEAK	74	Pass
	Off	2341.008	-56.61	2	40.65	AV	54	Pass
	Off	2390.0	-49.41	2	47.85	PEAK	74	Pass
	Off	2390.0	-58.36	2	38.9	AV	54	Pass
	Off	2483.5	-50.48	2	46.78	PEAK	74	Pass
	Off	2483.5	-56.62	2	40.64	AV	54	Pass
	Off	2487.352	-43.17	2	54.09	PEAK	74	Pass
	Off	2483.944	-56.41	2	40.85	AV	54	Pass
	Off	2500.0	-50.7	2	46.56	PEAK	74	Pass
	Off	2500.0	-58.21	2	39.05	AV	54	Pass
8DPSK	Off	2310.0	-51.42	2	45.84	PEAK	74	Pass
	Off	2310.0	-58.85	2	38.41	AV	54	Pass
	Off	2340.72	-46.51	2	50.75	PEAK	74	Pass
	Off	2340.432	-56.53	2	40.73	AV	54	Pass



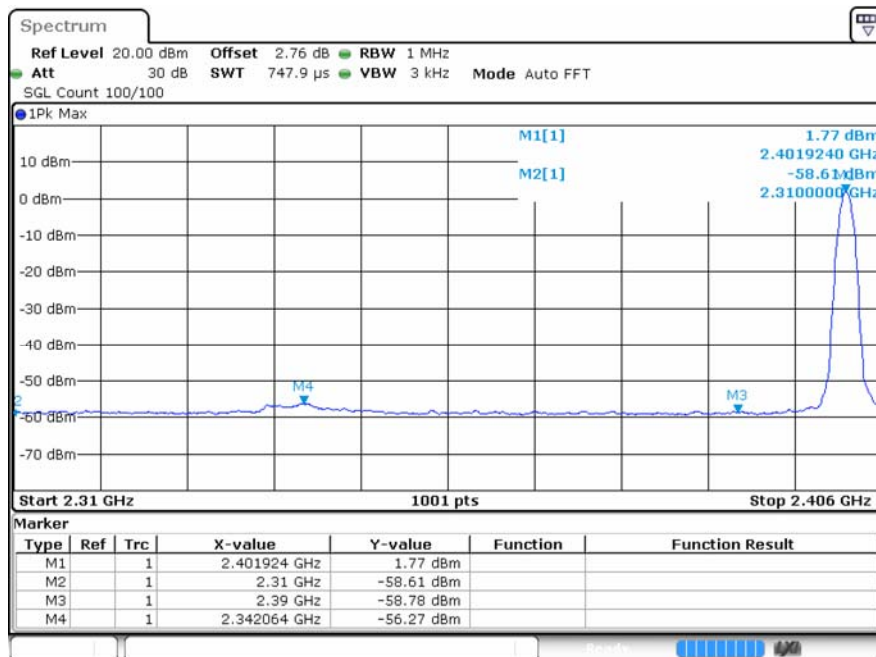
Off	2390.0	-50.97	2	46.29	PEAK	74	Pass
Off	2390.0	-58.64	2	38.62	AV	54	Pass
Off	2483.5	-49.88	2	47.38	PEAK	74	Pass
Off	2483.5	-56.45	2	40.81	AV	54	Pass
Off	2487.16	-45.89	2	51.37	PEAK	74	Pass
Off	2484.256	-56.05	2	41.21	AV	54	Pass
Off	2500.0	-50.74	2	46.52	PEAK	74	Pass
Off	2500.0	-58.35	2	38.91	AV	54	Pass

9.2 Test Graphs

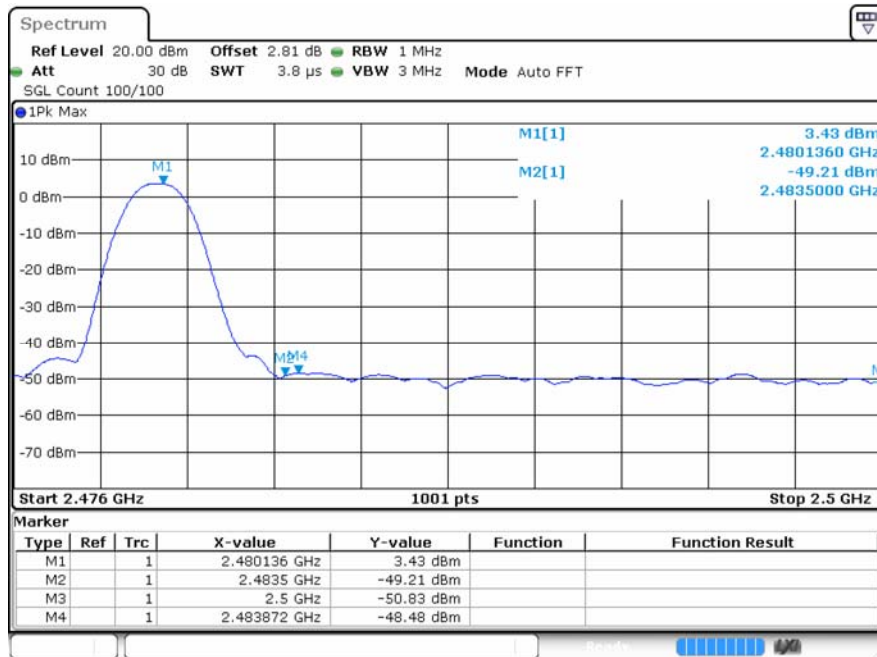
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (Low Channel)



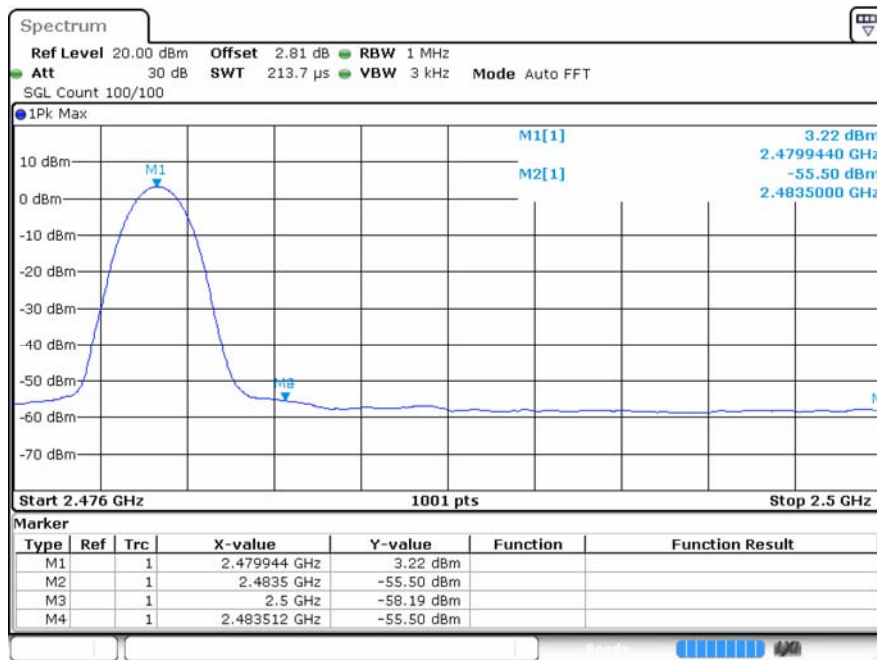
Restrict-band band-edge measurements_Hopping Off_GFSK_Average (Low Channel)



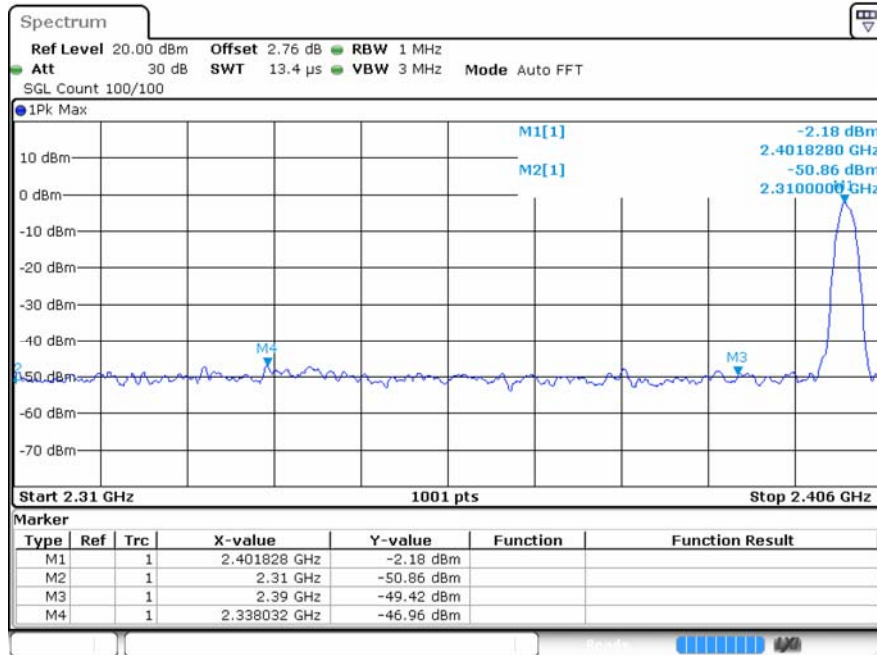
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (High Channel)



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



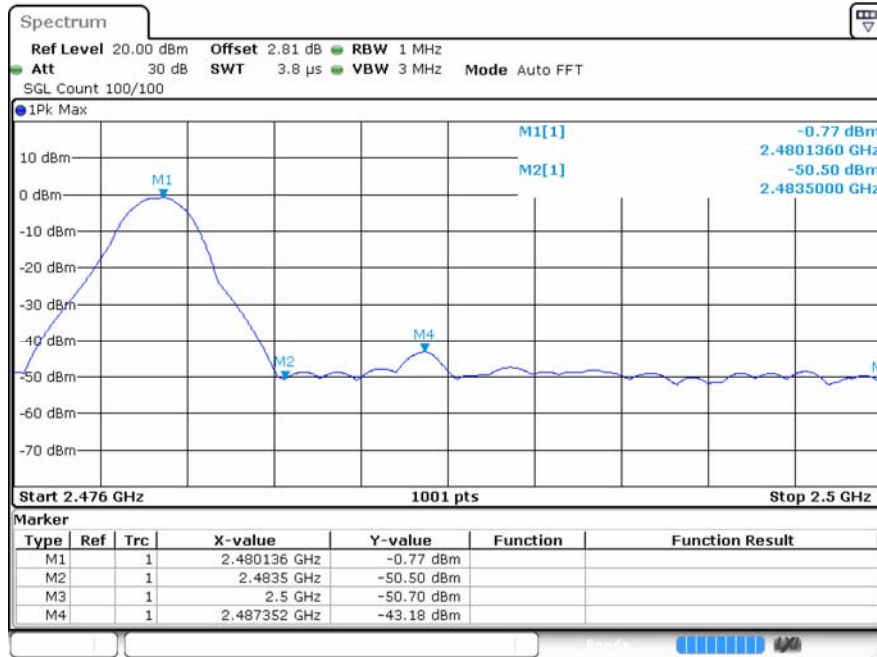
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



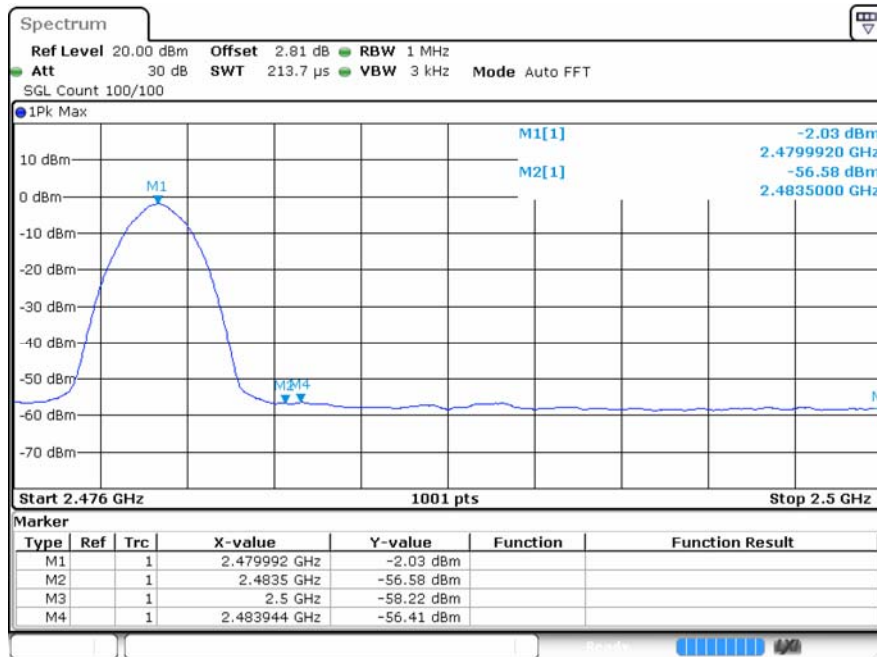
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



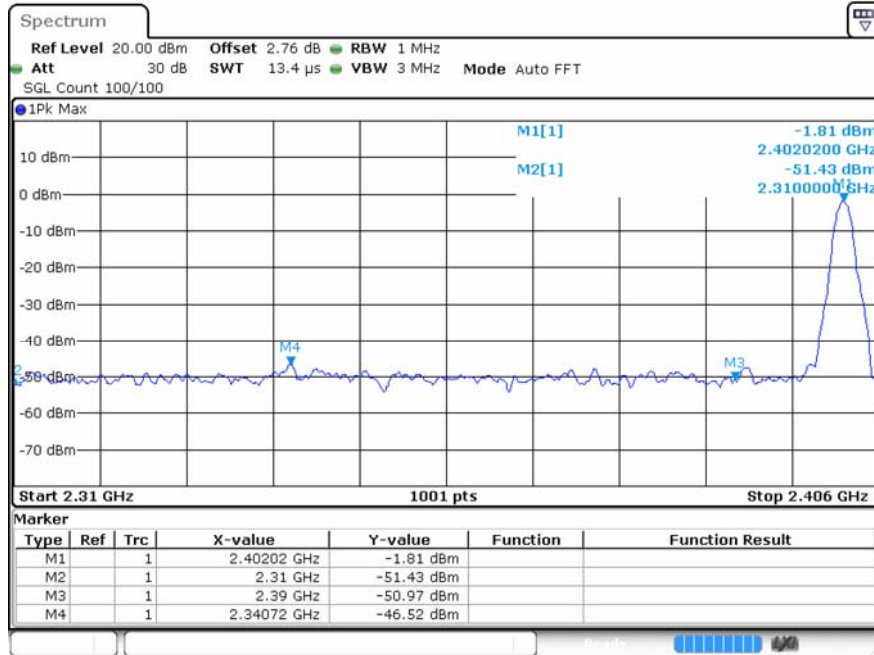
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



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



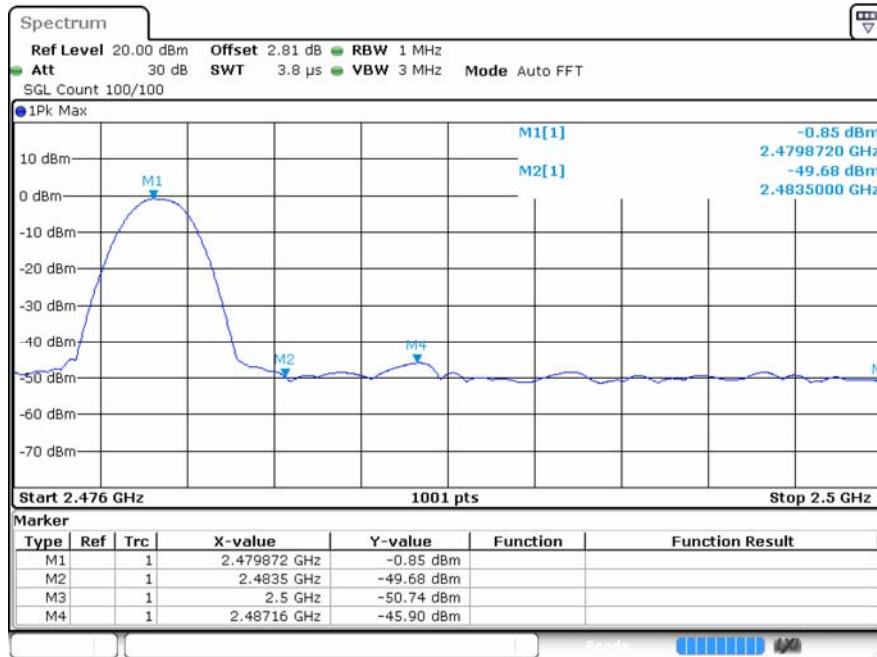
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



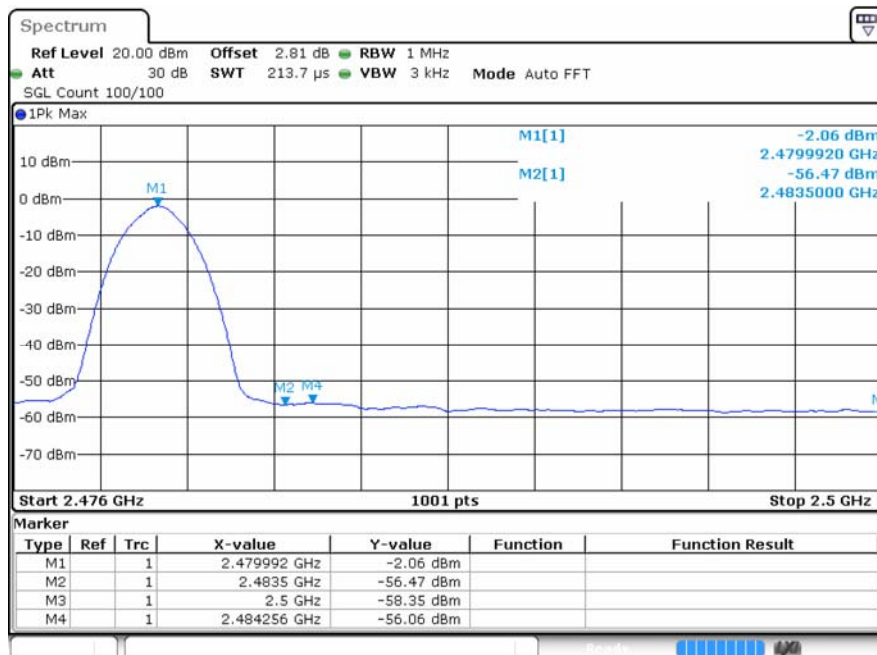
Restrict-band band-edge measurements_Hopping Off_8DPSK_Average (Low Channel)



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



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



---The End---