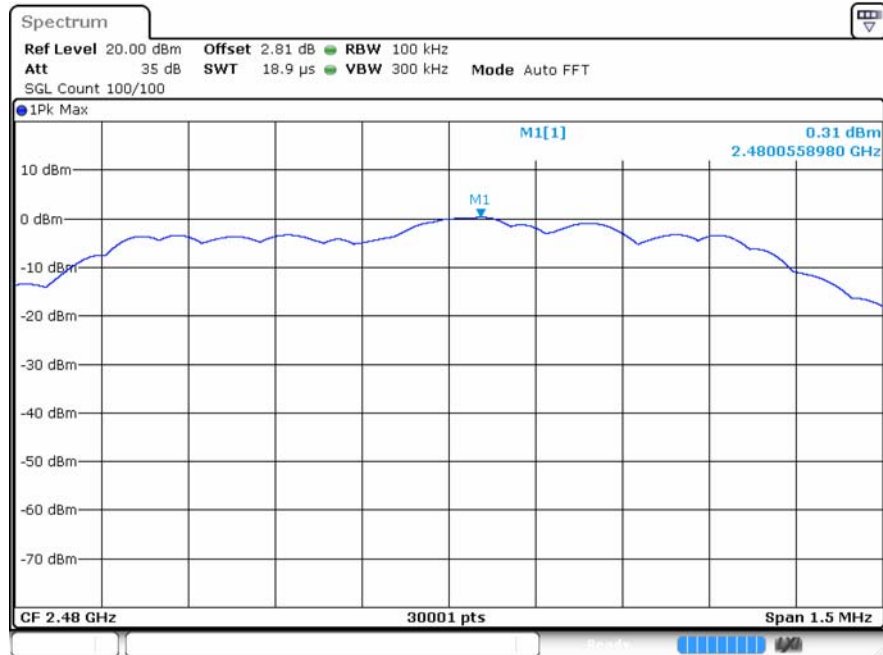
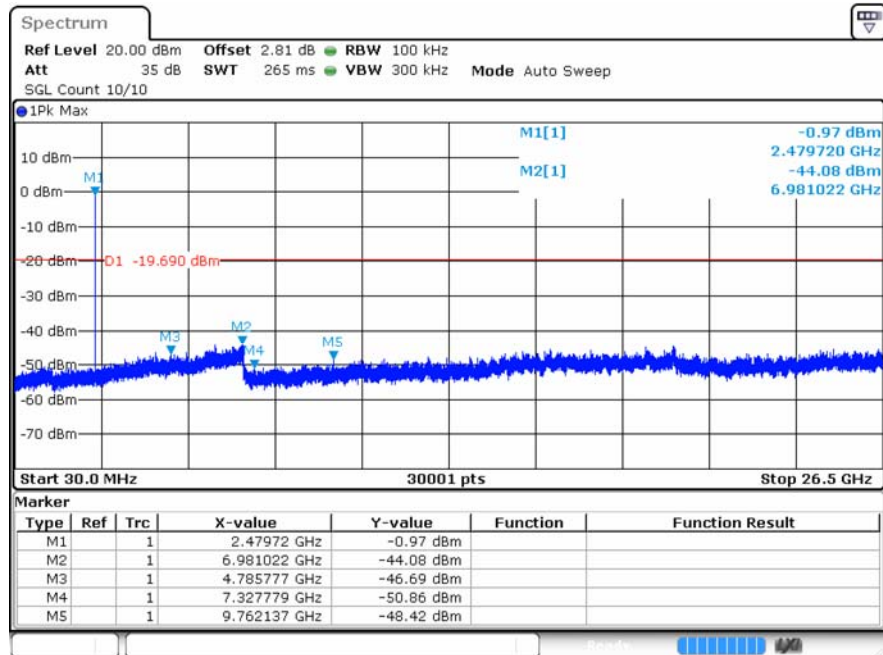


$\pi/4$ DQPSK_HCH_Graphs

Pref

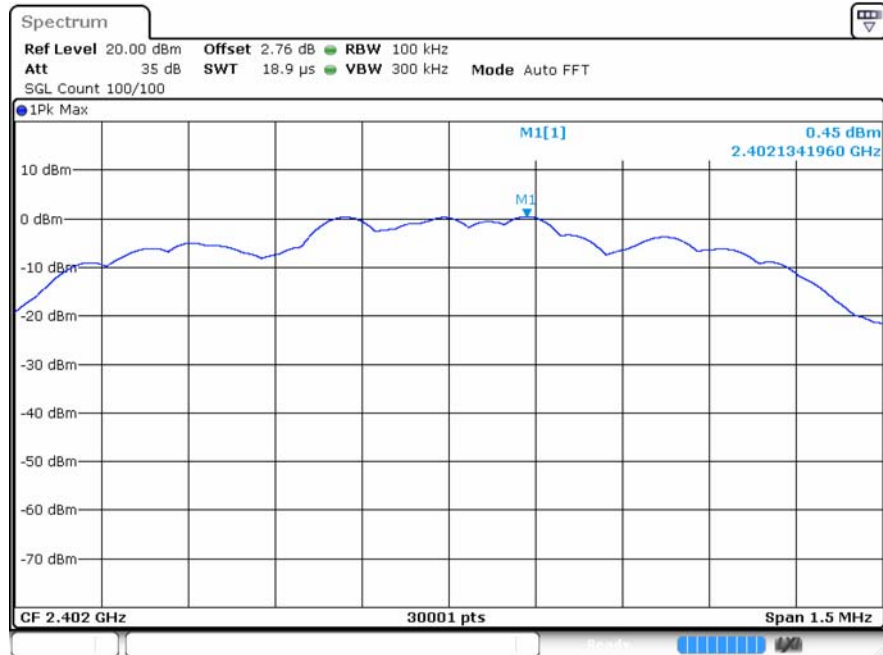


Puw

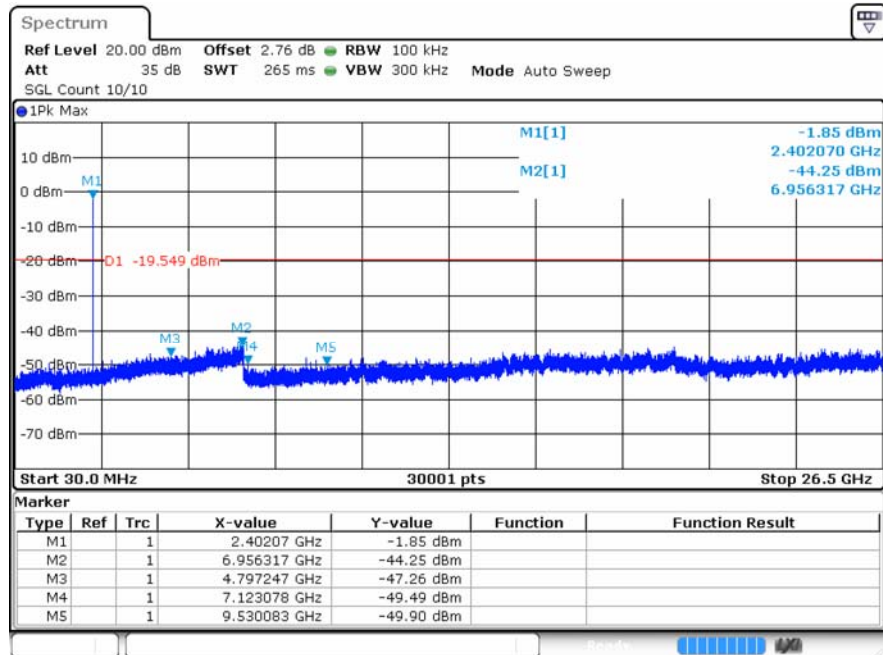


8DPSK_LCH_Graphs

Pref

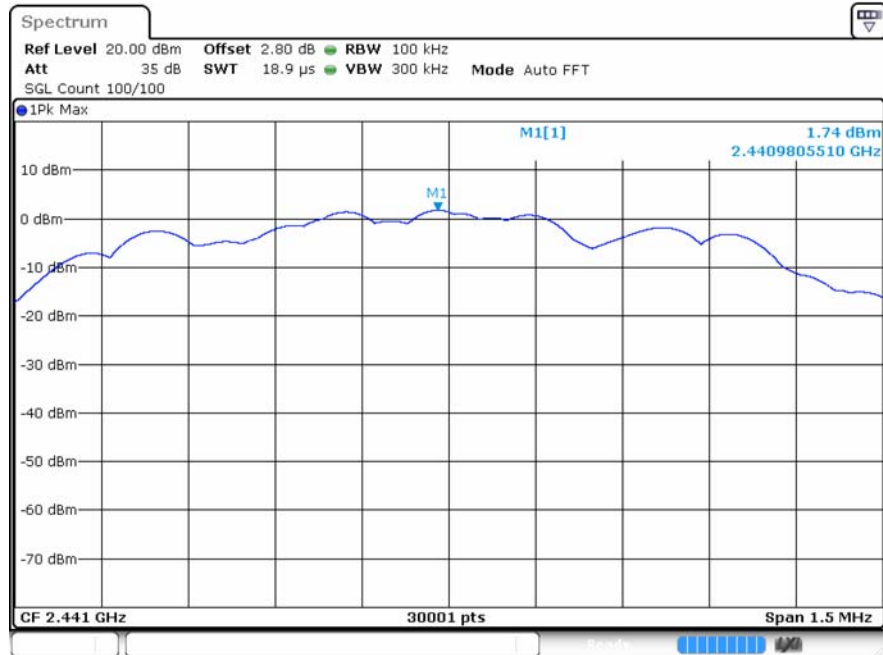


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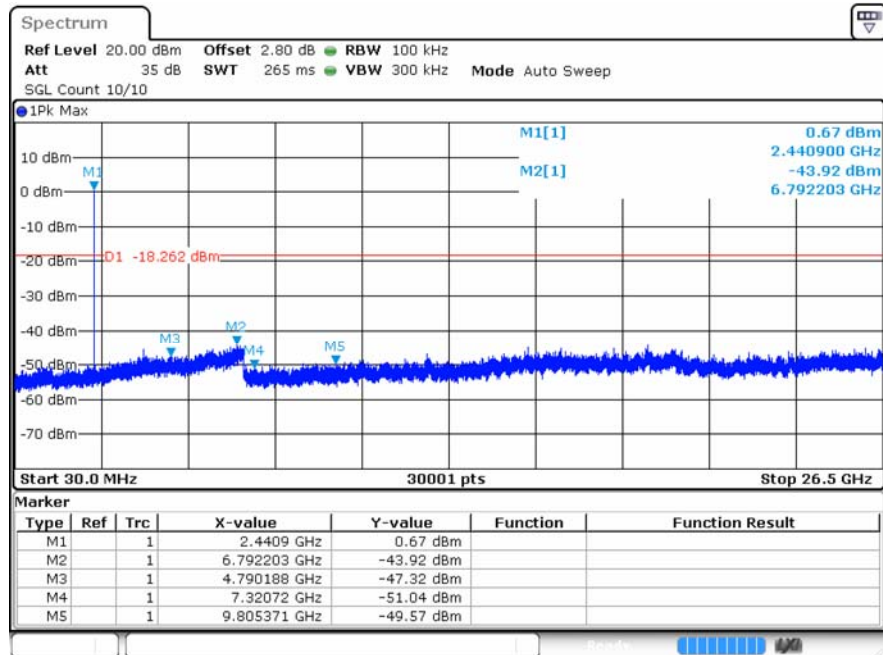


8DPSK_MCH_Graphs

Pref

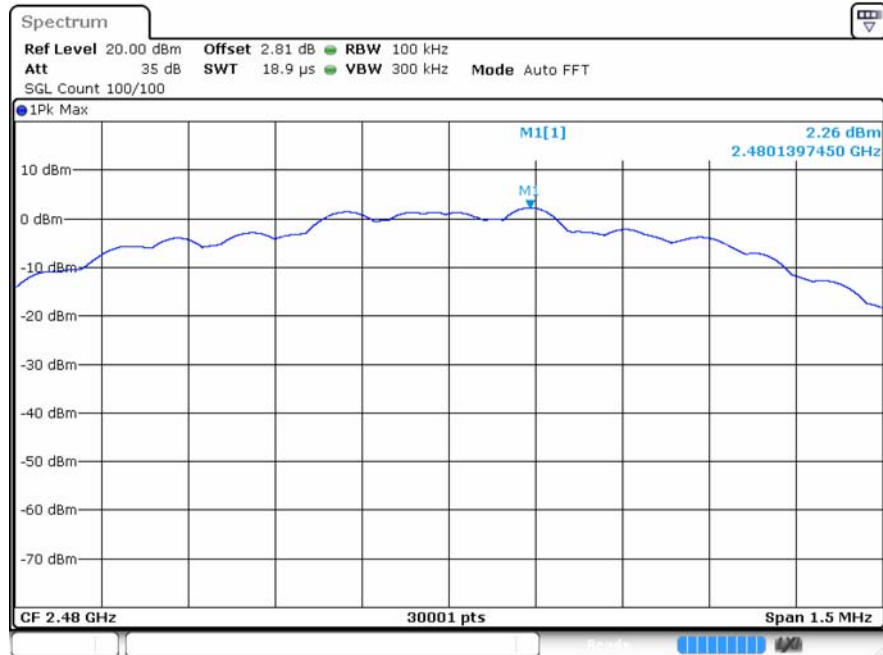


Puw

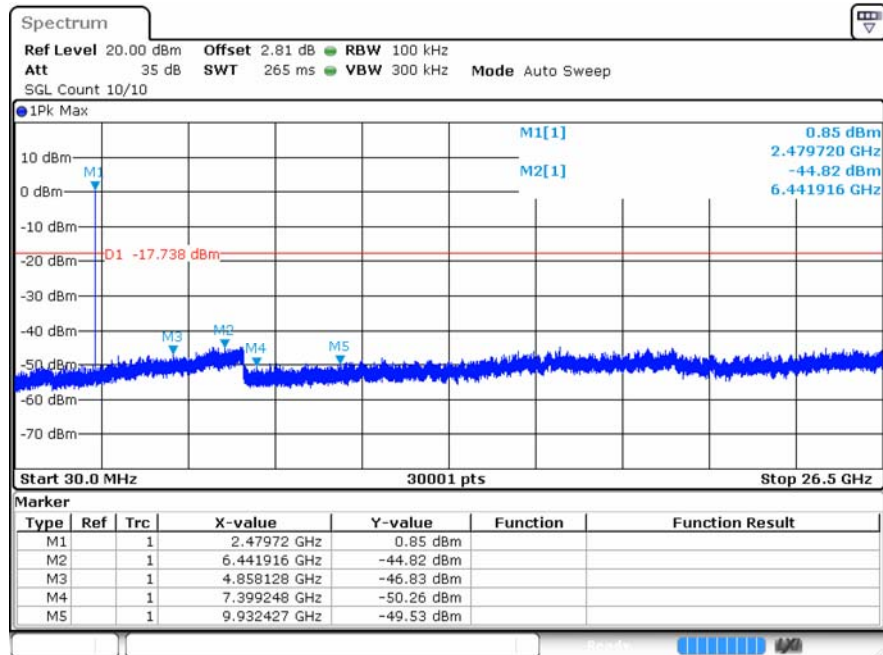


8DPSK_HCH_Graphs

Pref



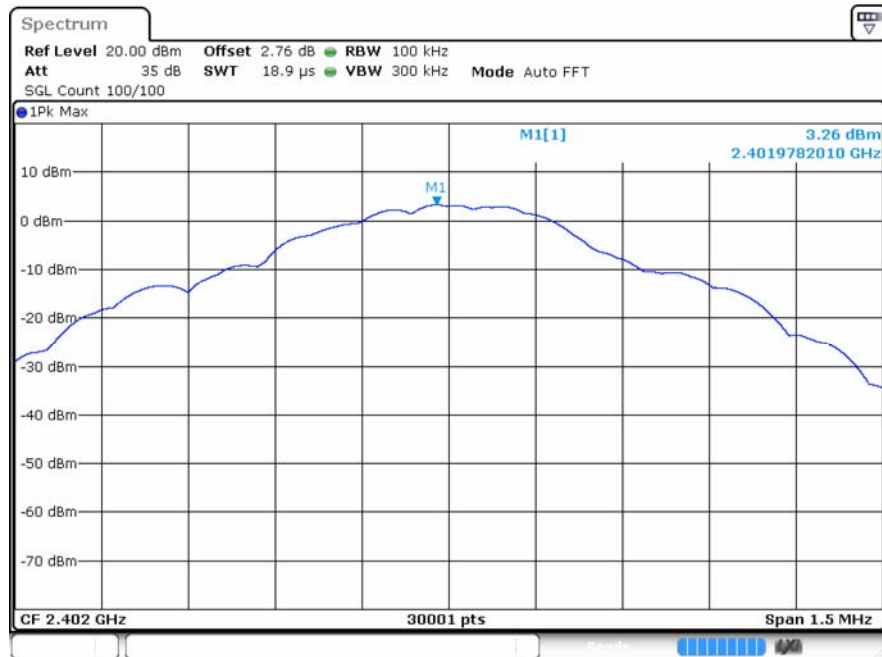
Puw



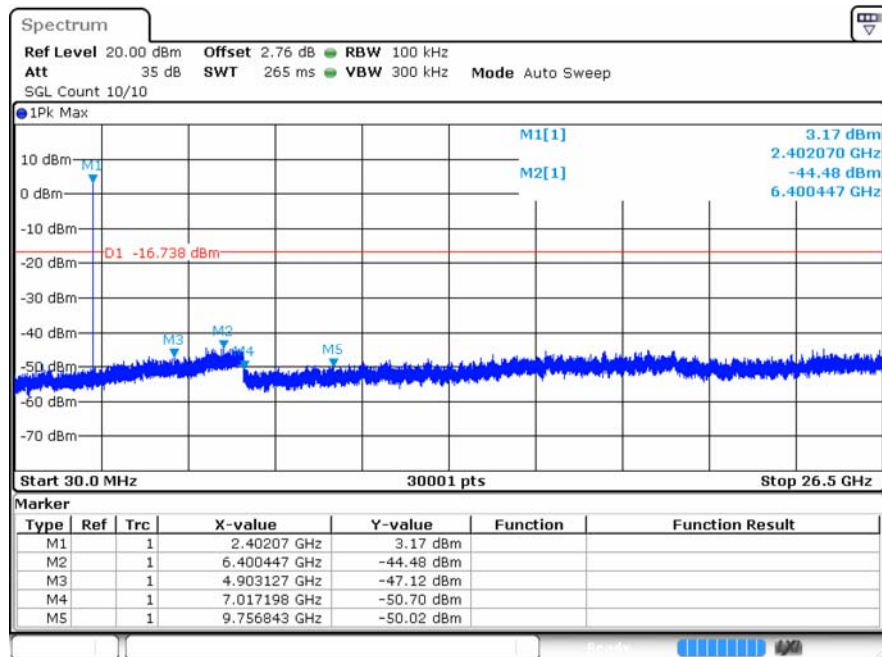
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GFSK_LCH_Graphs

Pref

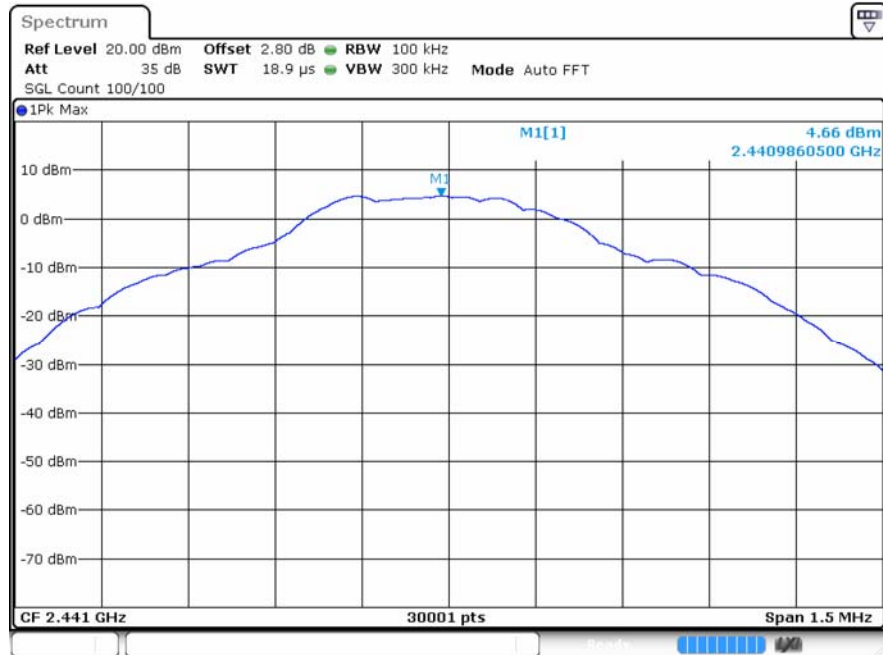


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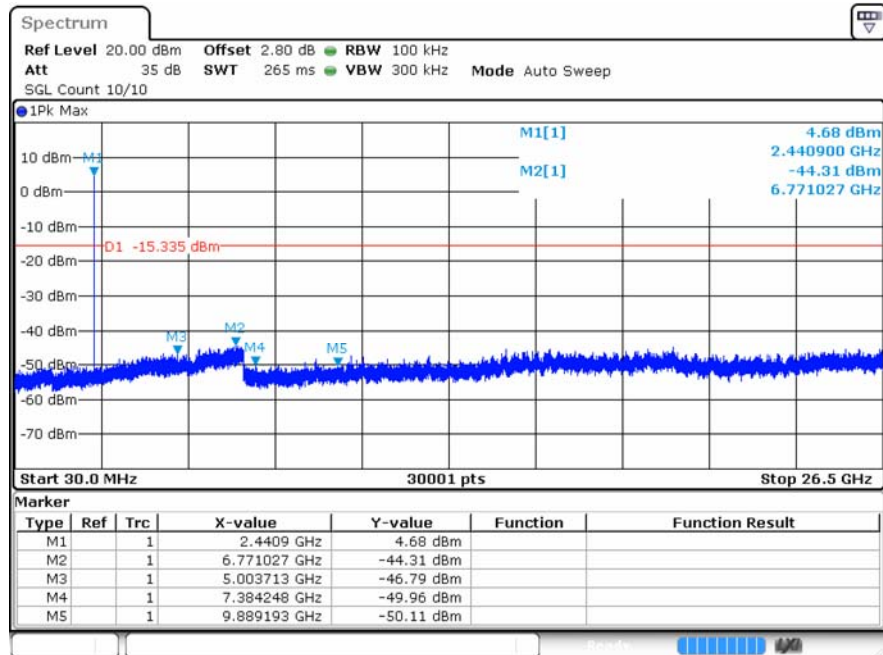


GFSK_MCH_Graphs

Pref

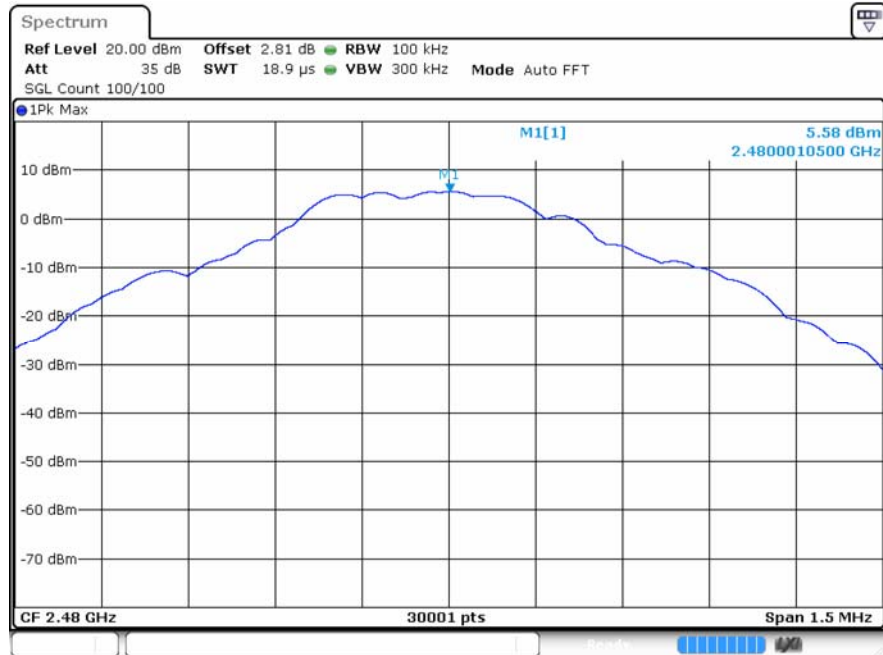


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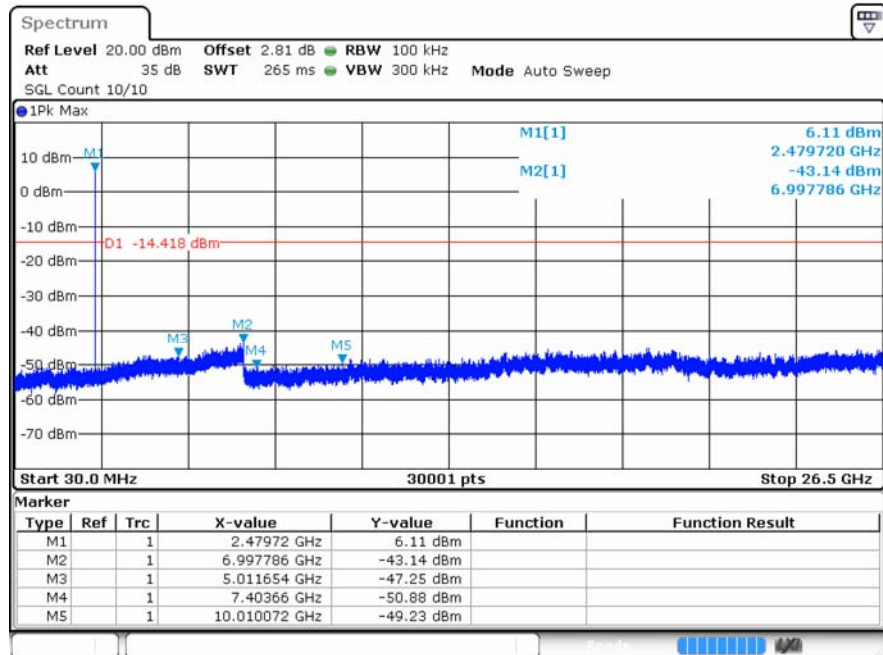


GFSK_HCH_Graphs

Pref

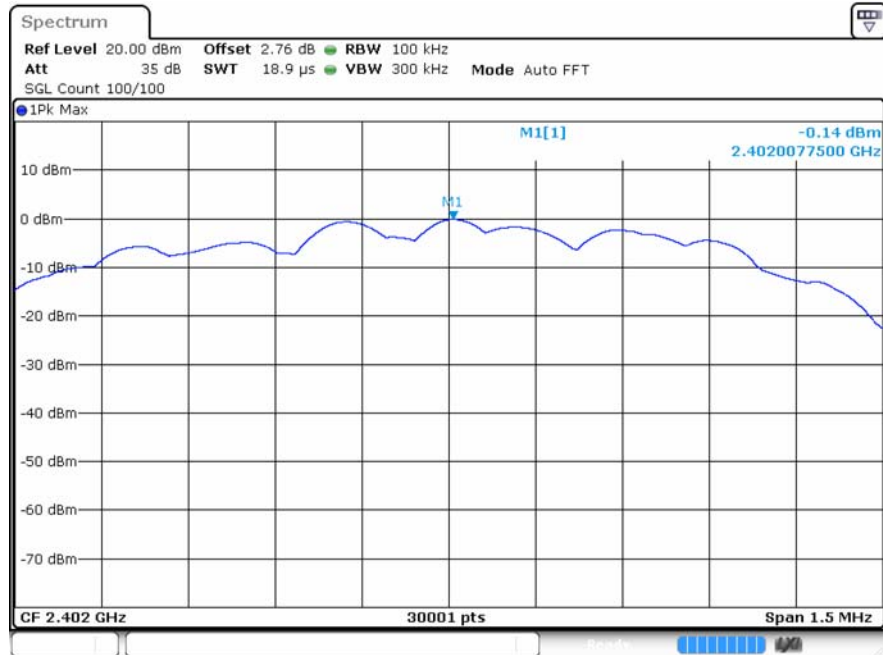


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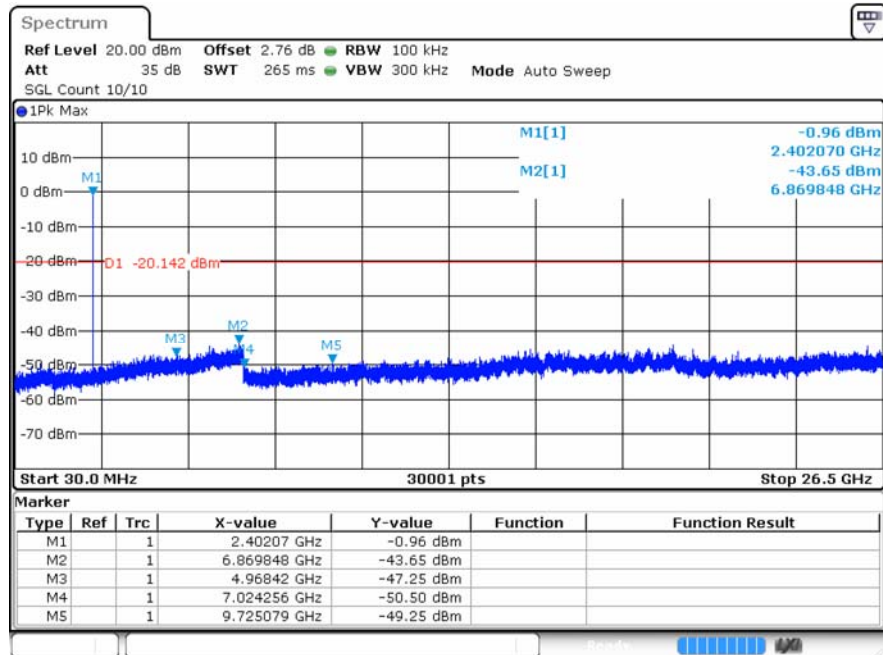


$\pi/4$ DQPSK_LCH_Graphs

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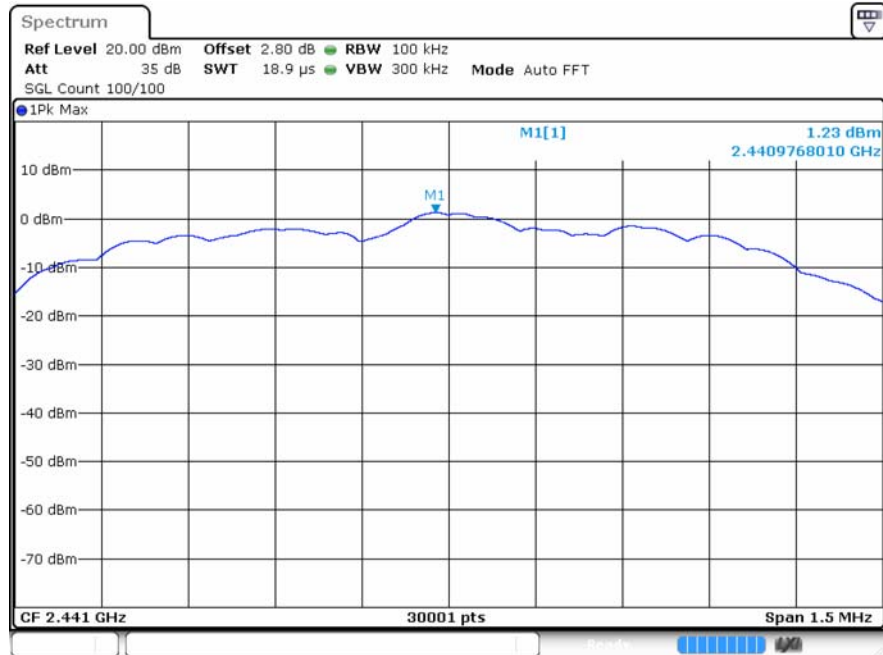


Puw

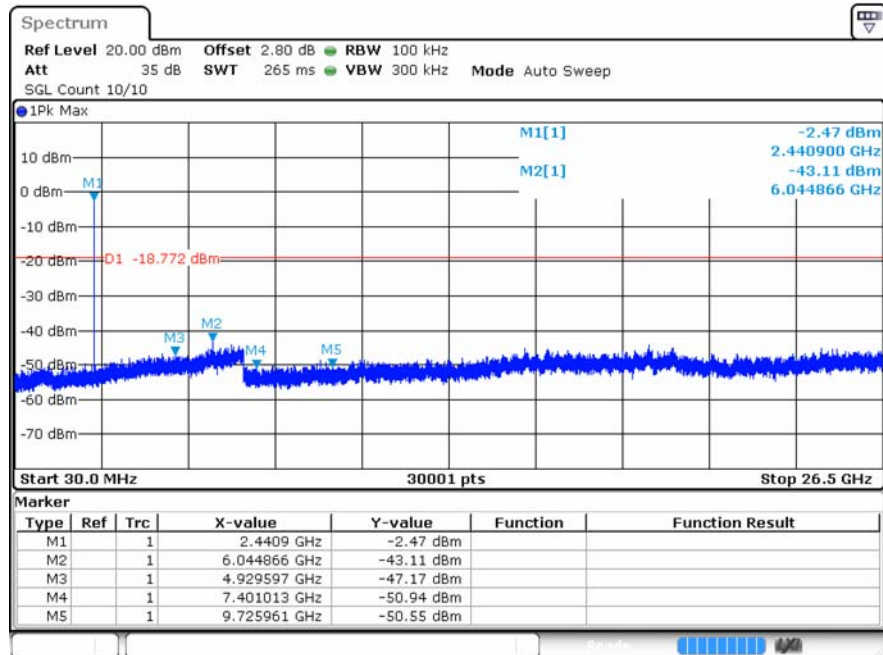


$\pi/4$ DQPSK_MCH_Graphs

Pref

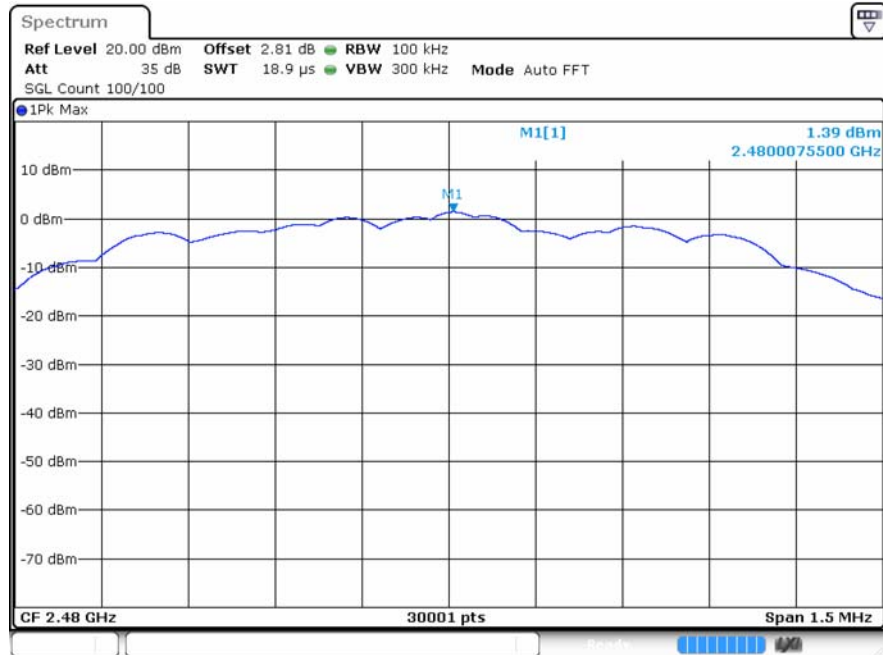


Puw

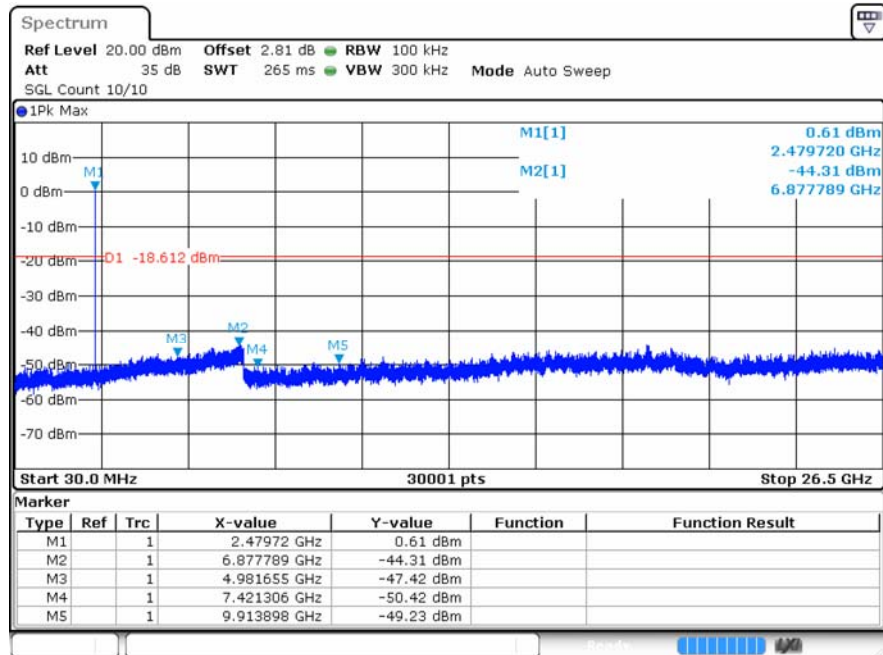


$\pi/4$ DQPSK_HCH_Graphs

Pref

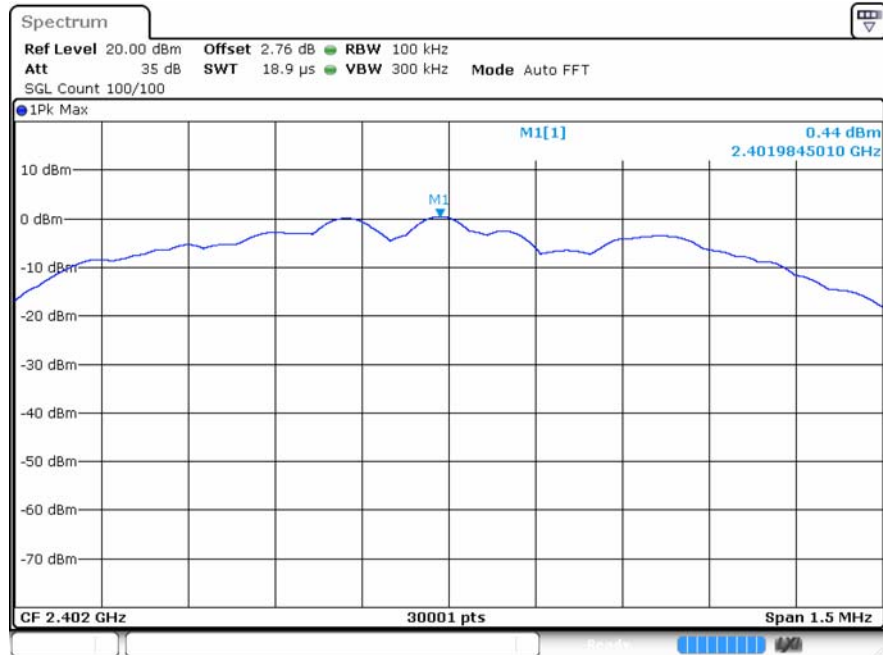


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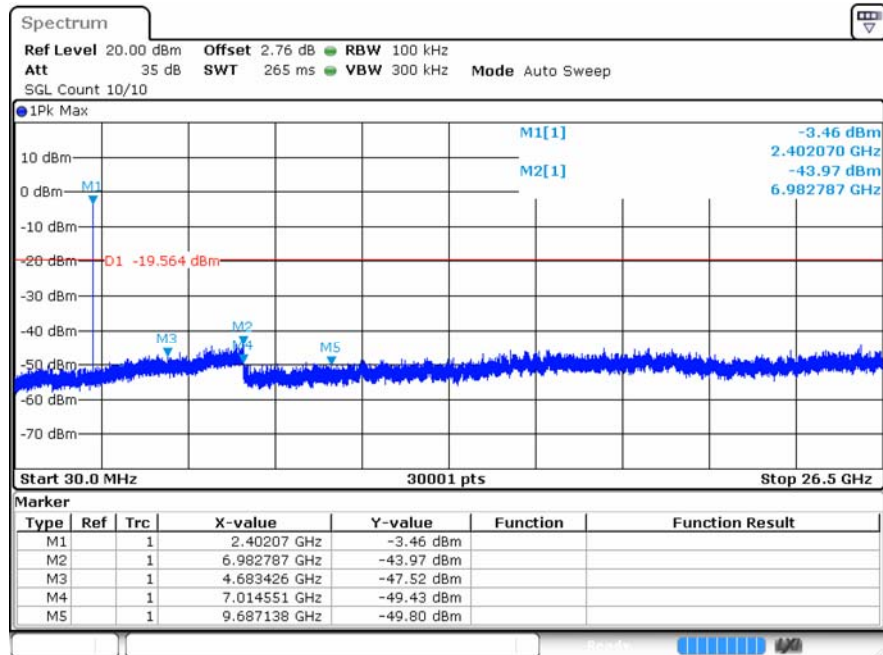


8DPSK_LCH_Graphs

Pref

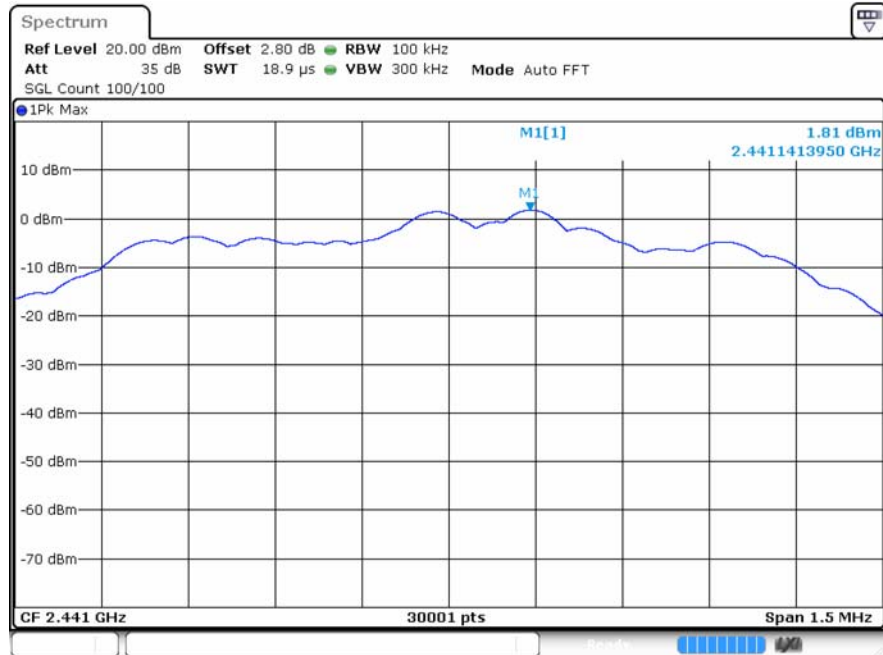


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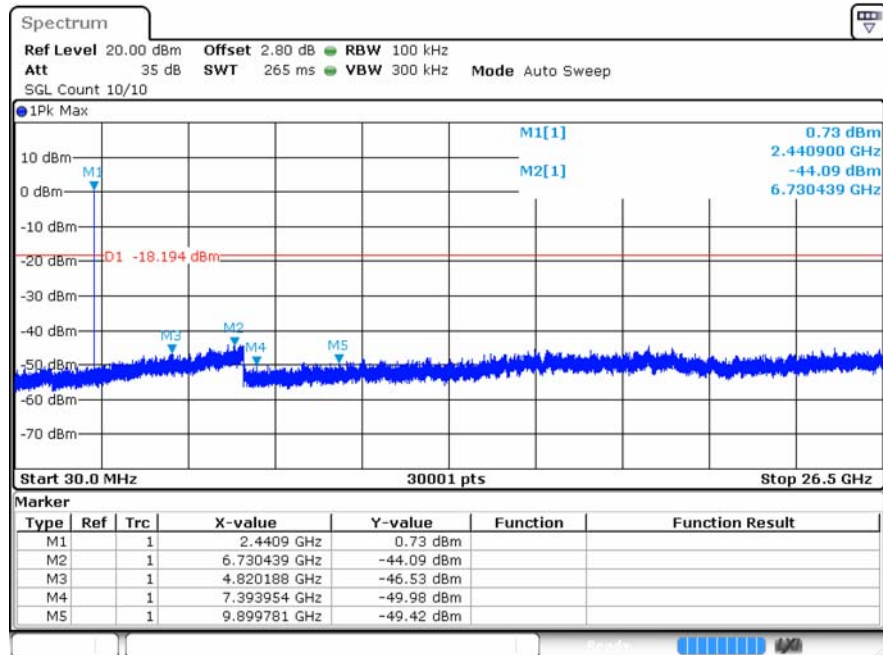


8DPSK_MCH_Graphs

Pref

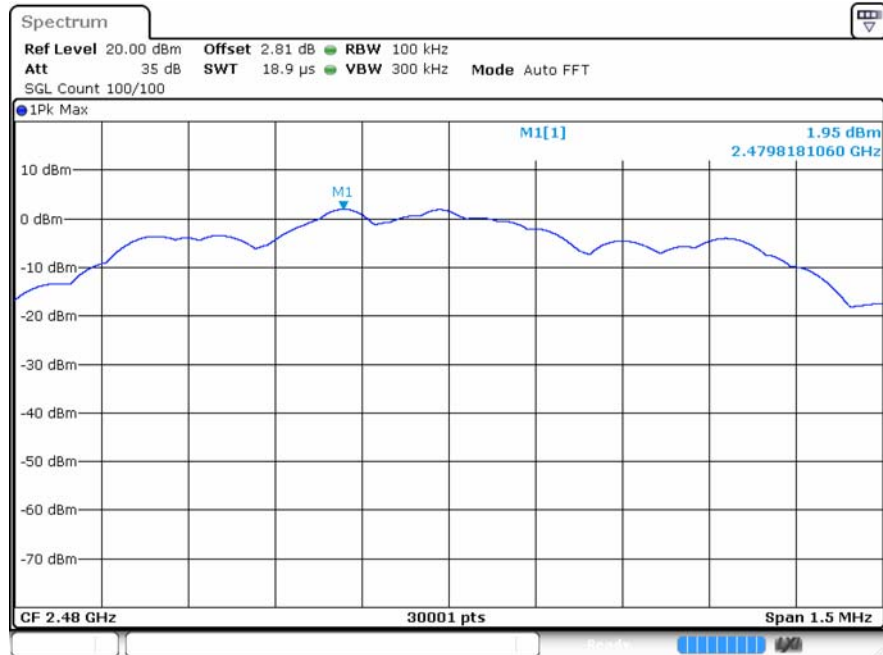


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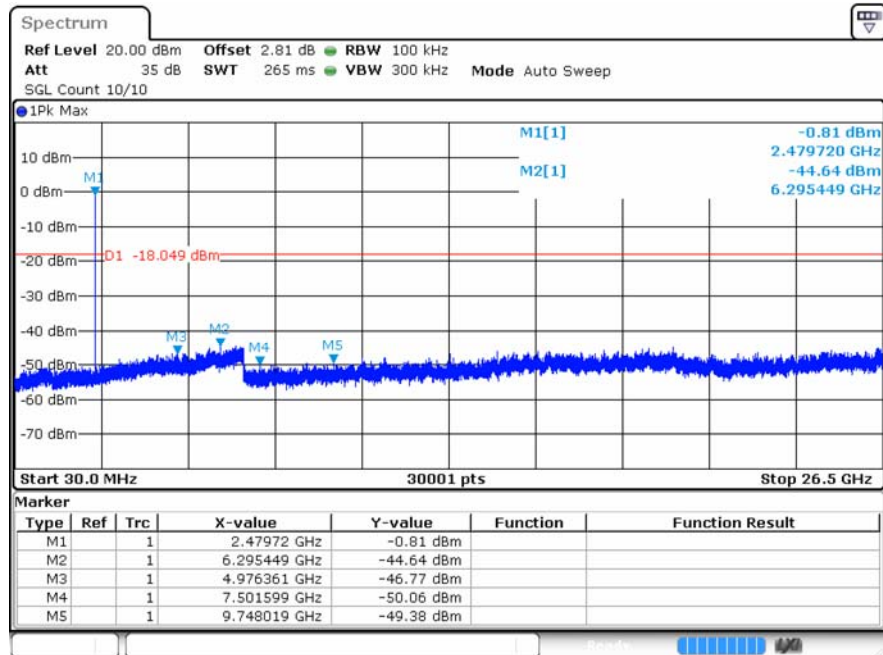


8DPSK_HCH_Graphs

Pref



Puw



8 Band-edge for RF Conducted Emissions

8.1 Test Result

Left:

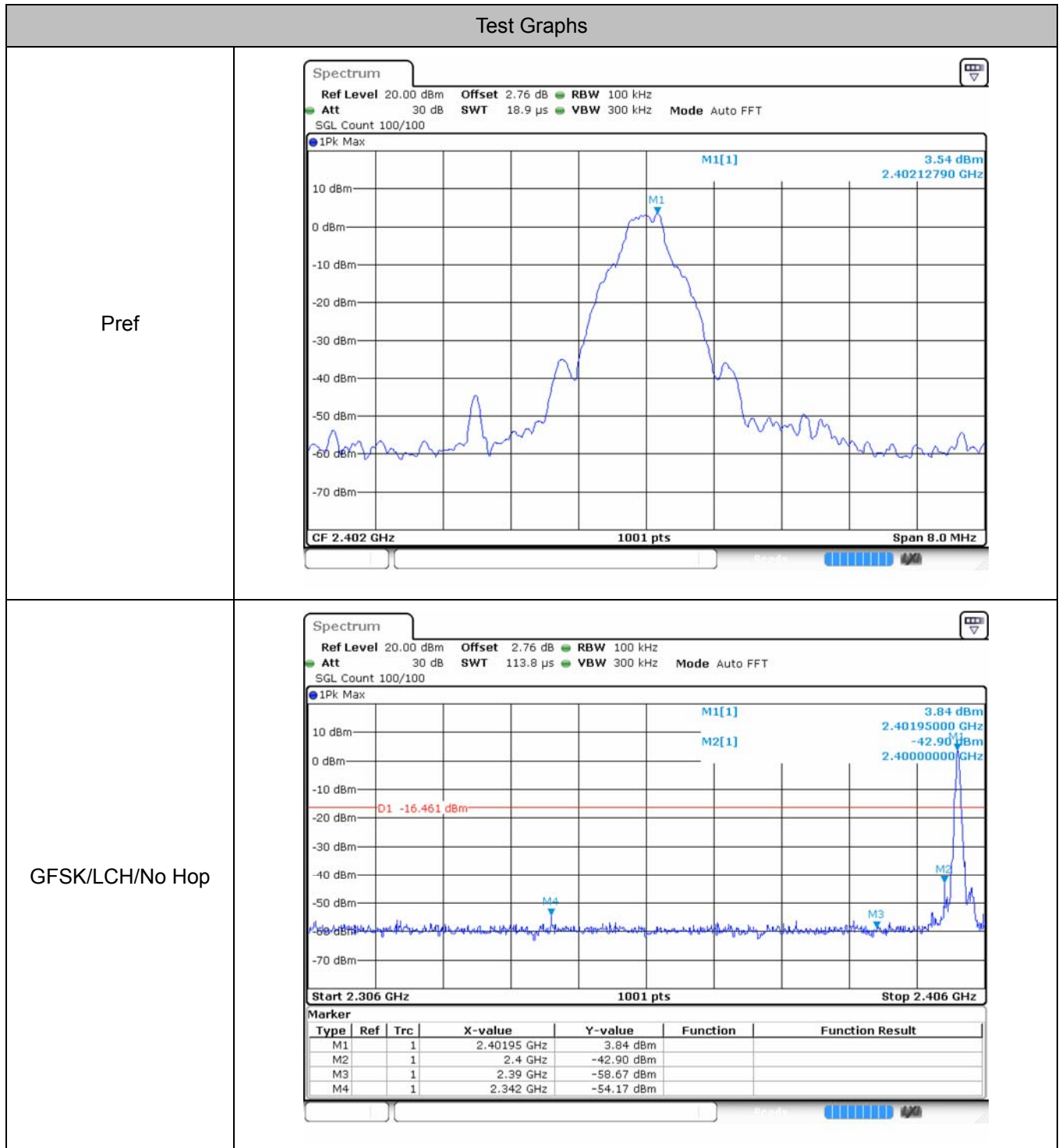
Mode	Channel	Carrier Frequency [MHz]	Frequency Hopping	Max Spurious Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	2402	Off	-57.7	-20	Pass
			On	-57.29	-20	Pass
	HCH	2480	Off	-59.23	-20	Pass
			On	-54.94	-20	Pass
$\pi/4$ DQPSK	LCH	2402	Off	-55.42	-20	Pass
			On	-55.56	-20	Pass
	HCH	2480	Off	-52.93	-20	Pass
			On	-50.35	-20	Pass
8DPSK	LCH	2402	Off	-56.75	-20	Pass
			On	-55.29	-20	Pass
	HCH	2480	Off	-48.67	-20	Pass
			On	-50.48	-20	Pass

Right:

Mode	Channel	Carrier Frequency [MHz]	Frequency Hopping	Max Spurious Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	2402	Off	-57.92	-20	Pass
			On	-56.88	-20	Pass
	HCH	2480	Off	-54.2	-20	Pass
			On	-53	-20	Pass
$\pi/4$ DQPSK	LCH	2402	Off	-57.15	-20	Pass
			On	-54.55	-20	Pass
	HCH	2480	Off	-47.61	-20	Pass
			On	-50.27	-20	Pass
8DPSK	LCH	2402	Off	-56.17	-20	Pass
			On	-55.65	-20	Pass
	HCH	2480	Off	-48.87	-20	Pass
			On	-50.41	-20	Pass

8.2 Test Graphs

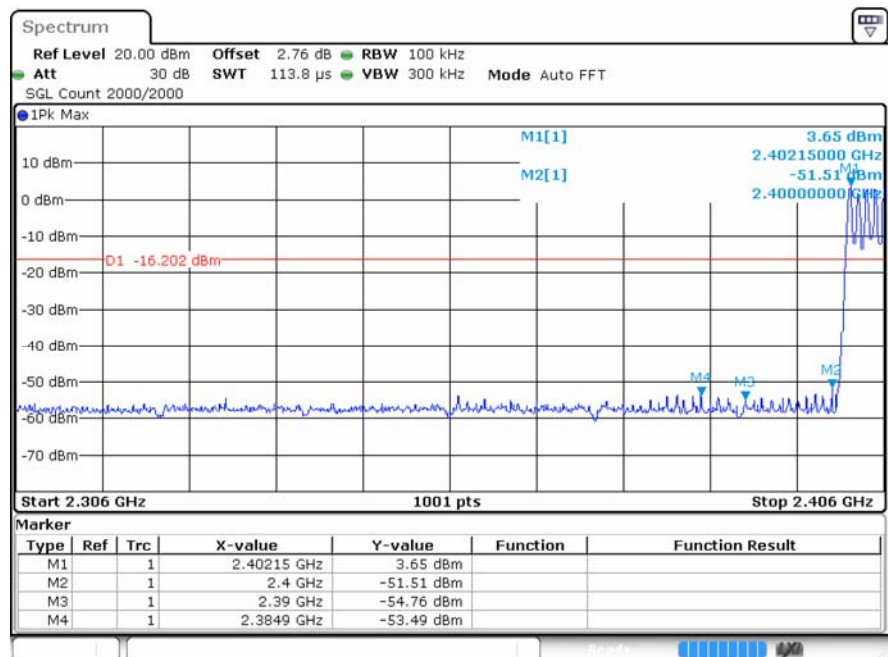
Left:



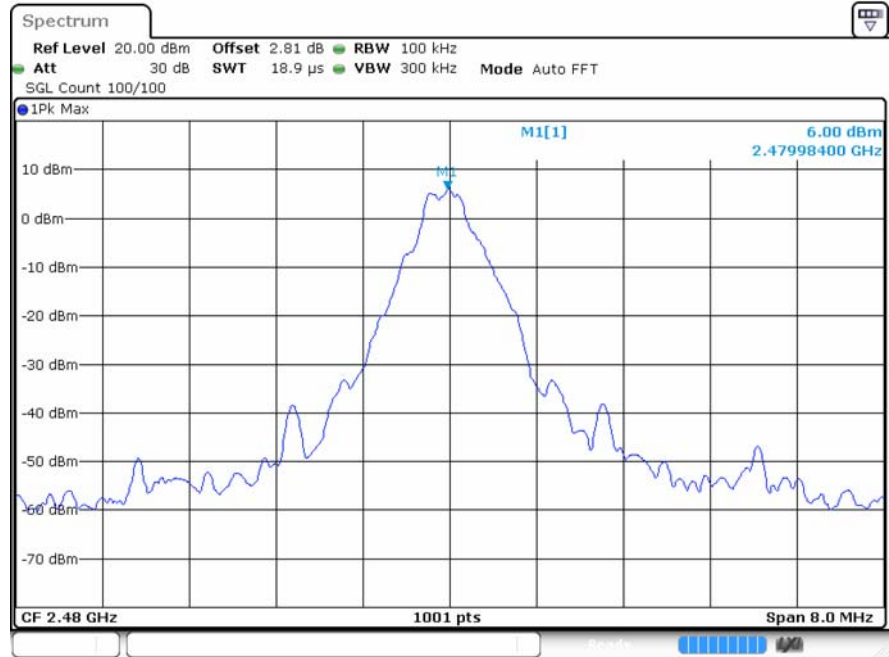
Ref



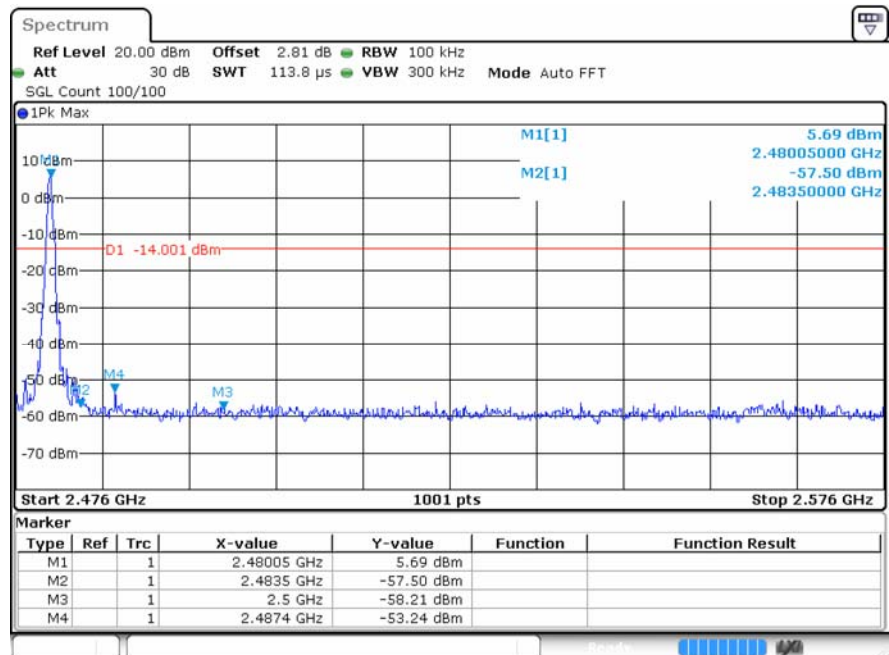
GFSK/LCH/Hop



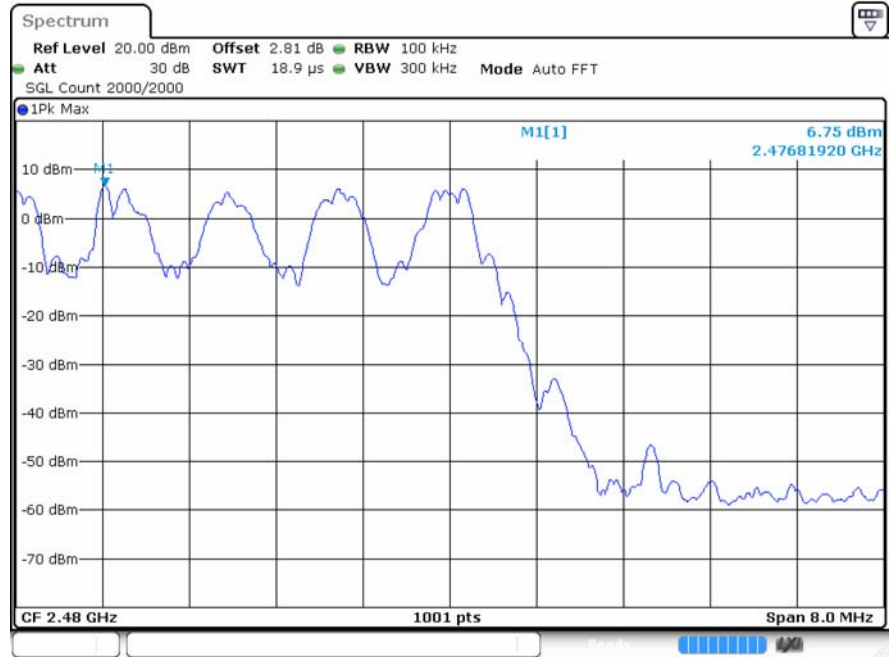
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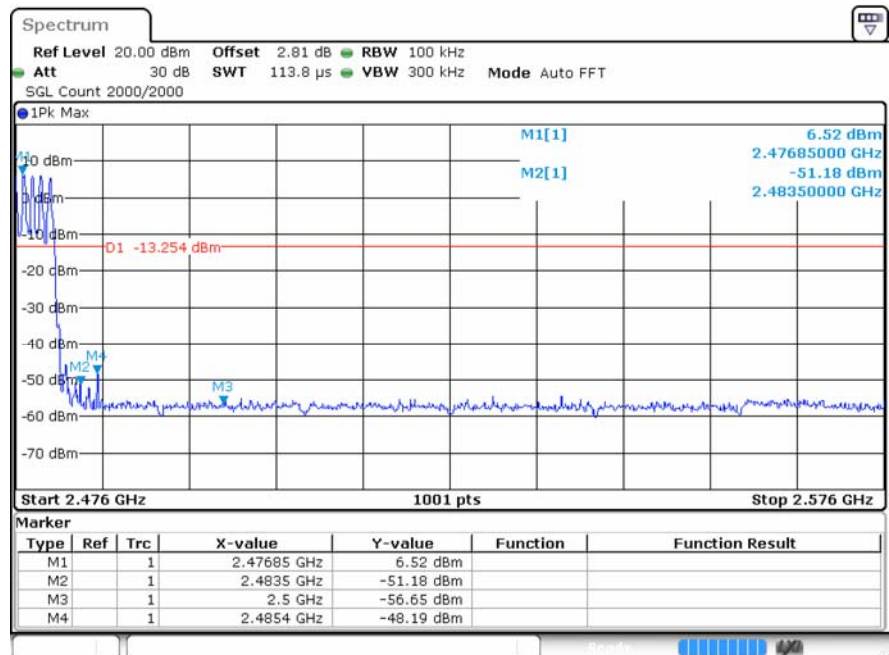
GFSK/HCH/No Hop



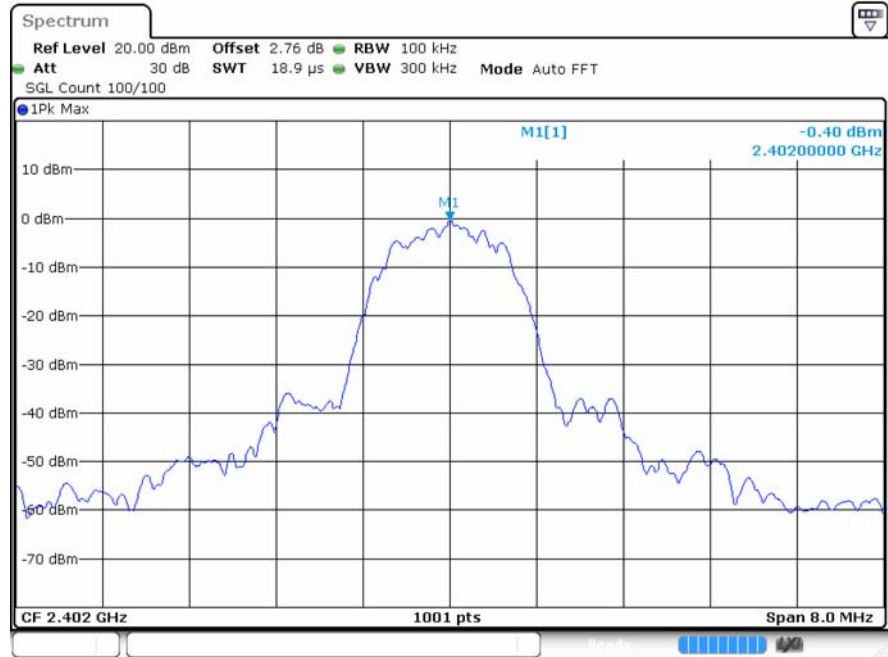
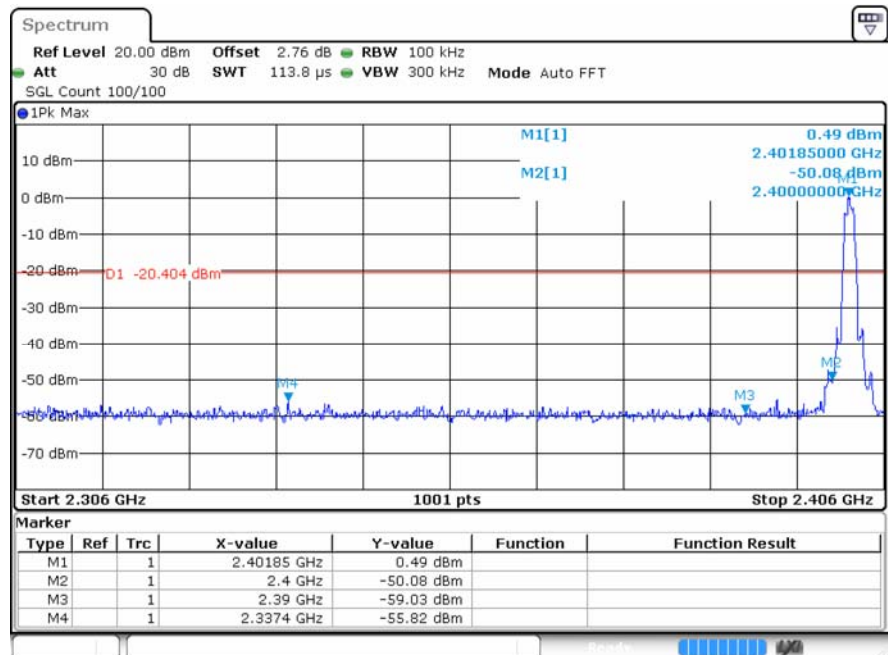
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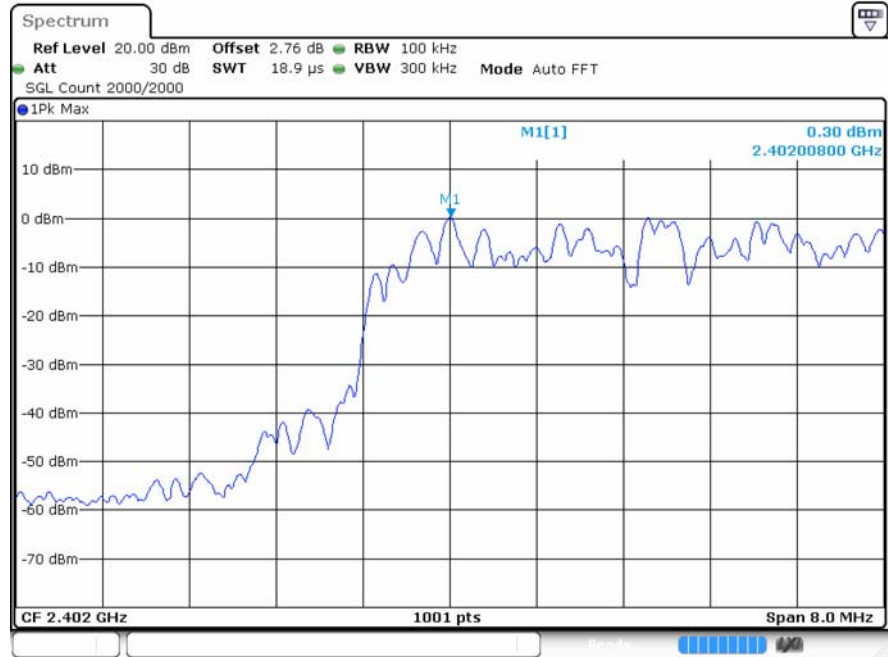
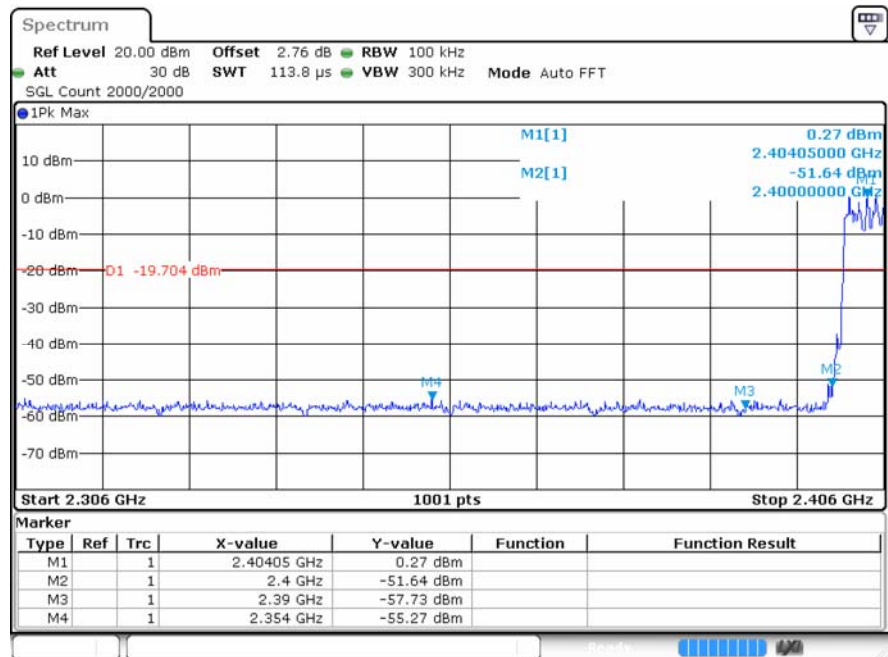
GFSK/HCH/Hop



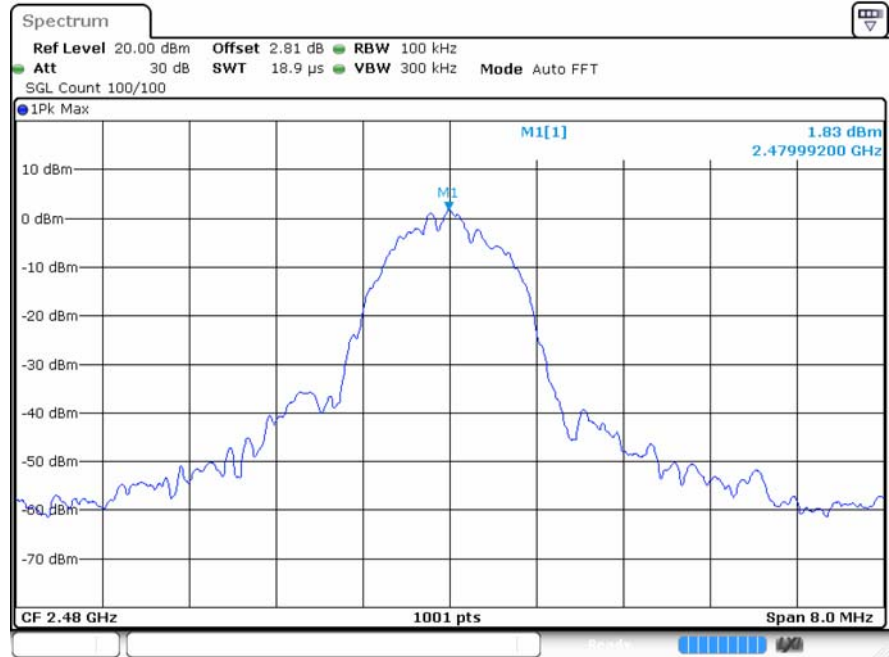
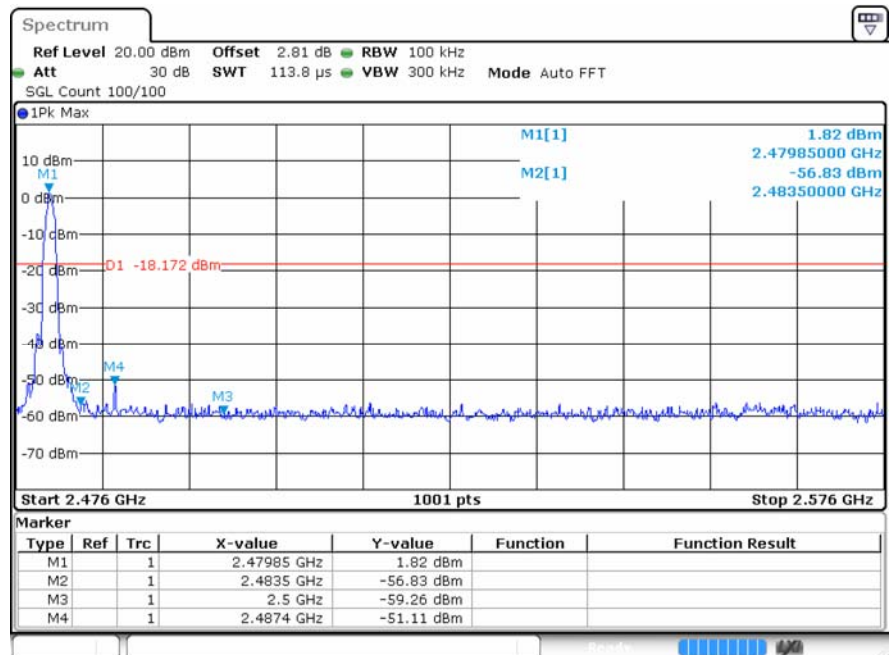
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 $\pi/4$ DQPSK/LCH/No
Hop


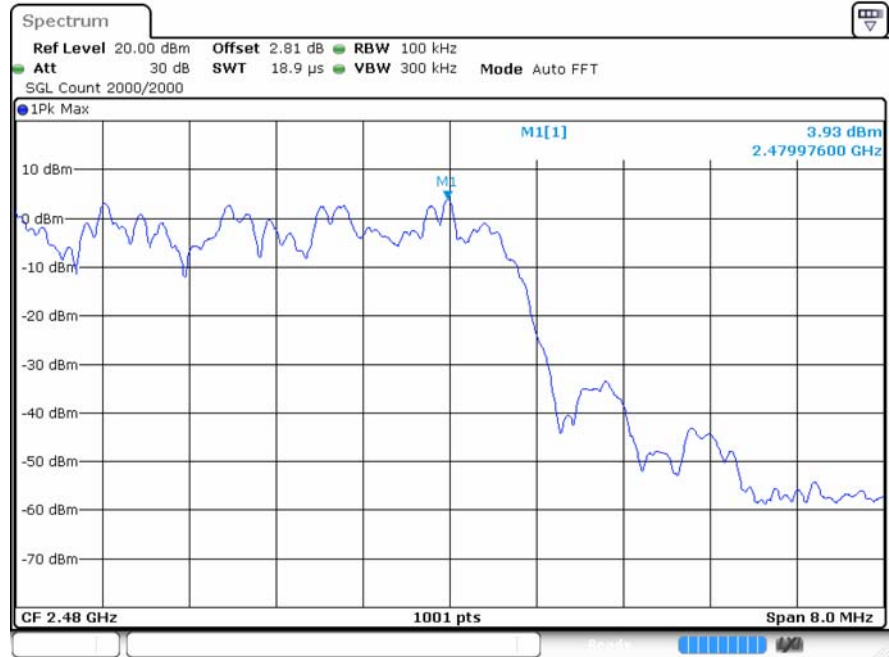
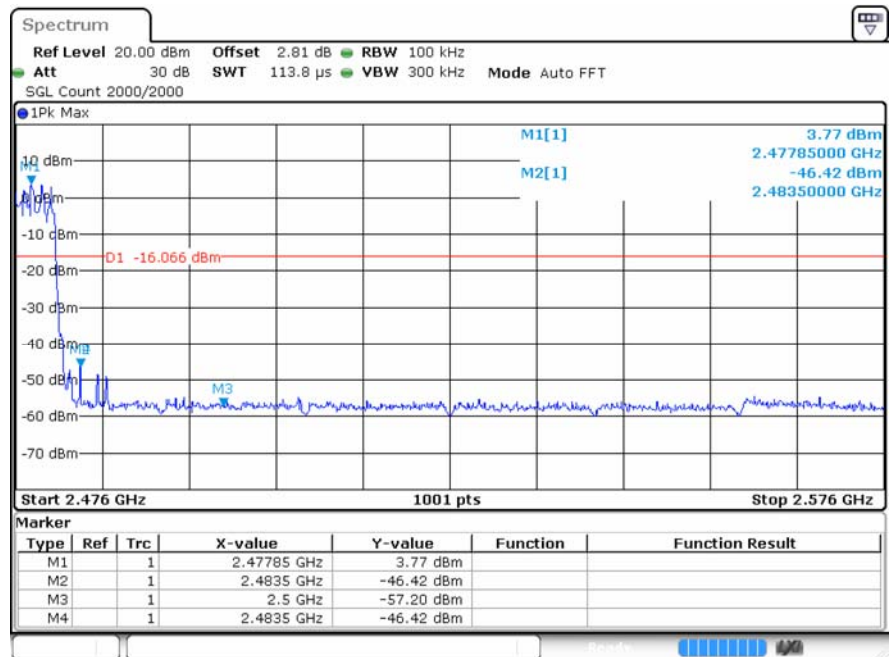
Ref


 $\pi/4$ DQPSK/LCH/Hop


Ref


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


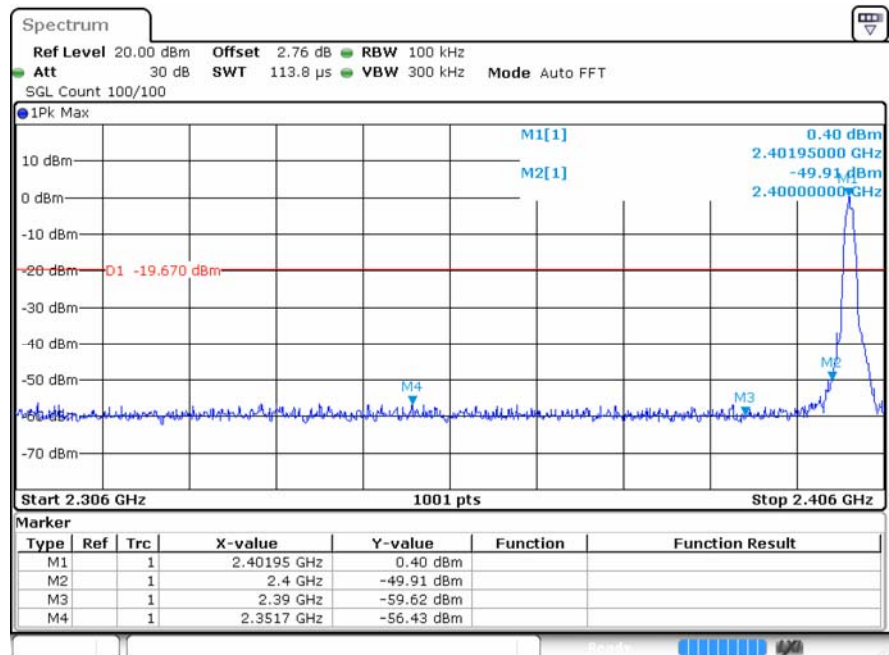
Ref


 $\pi/4$ DQPSK/HCH/Hop


Ref



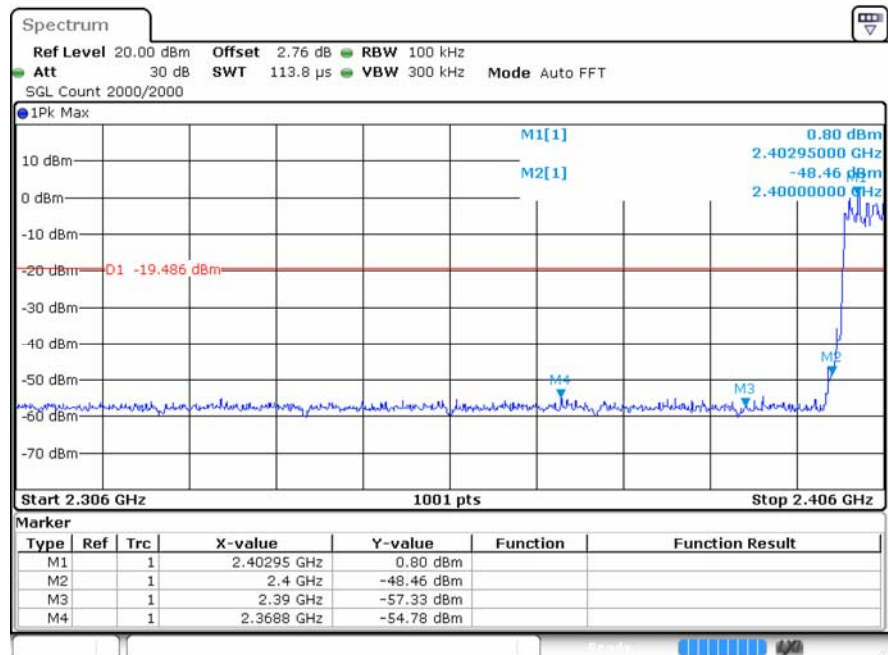
8DPSK/LCH/No Hop



Ref



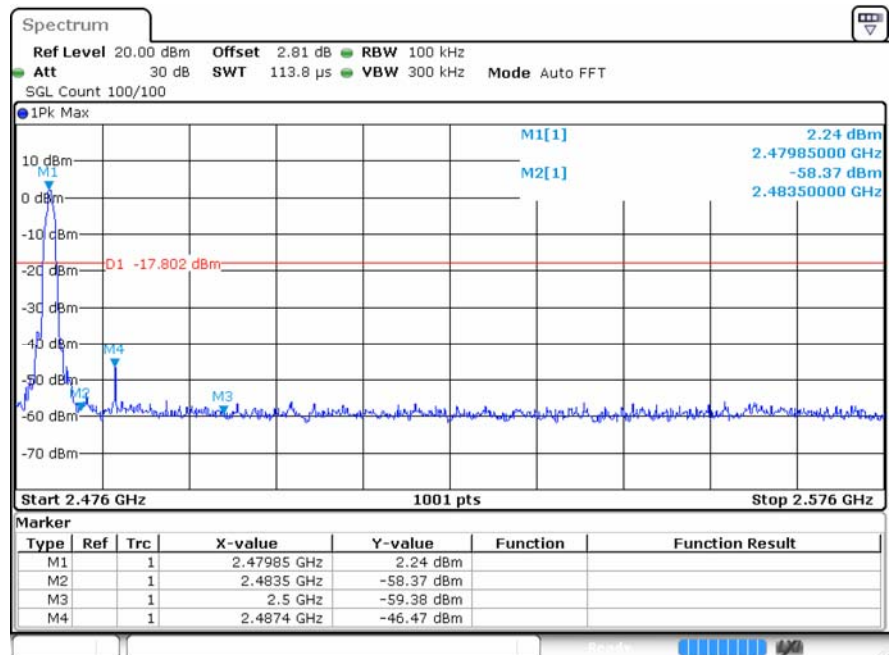
8DPSK/LCH/Hop



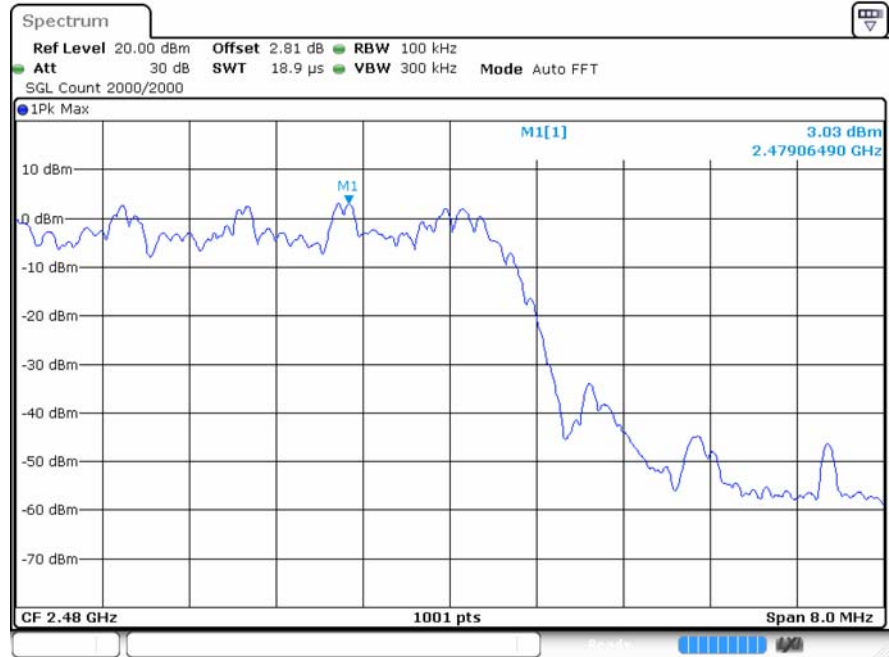
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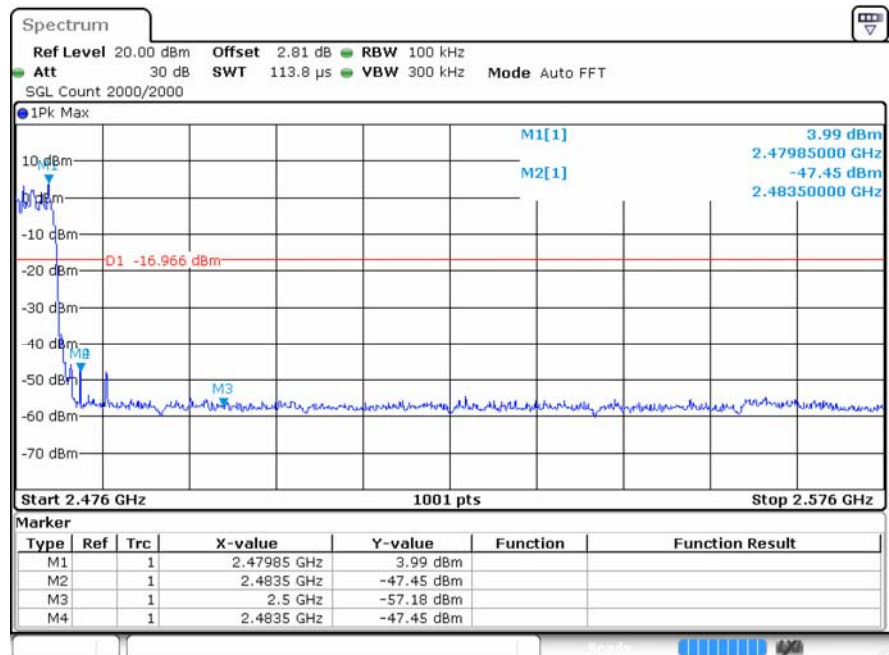
8DPSK/HCH/No Hop



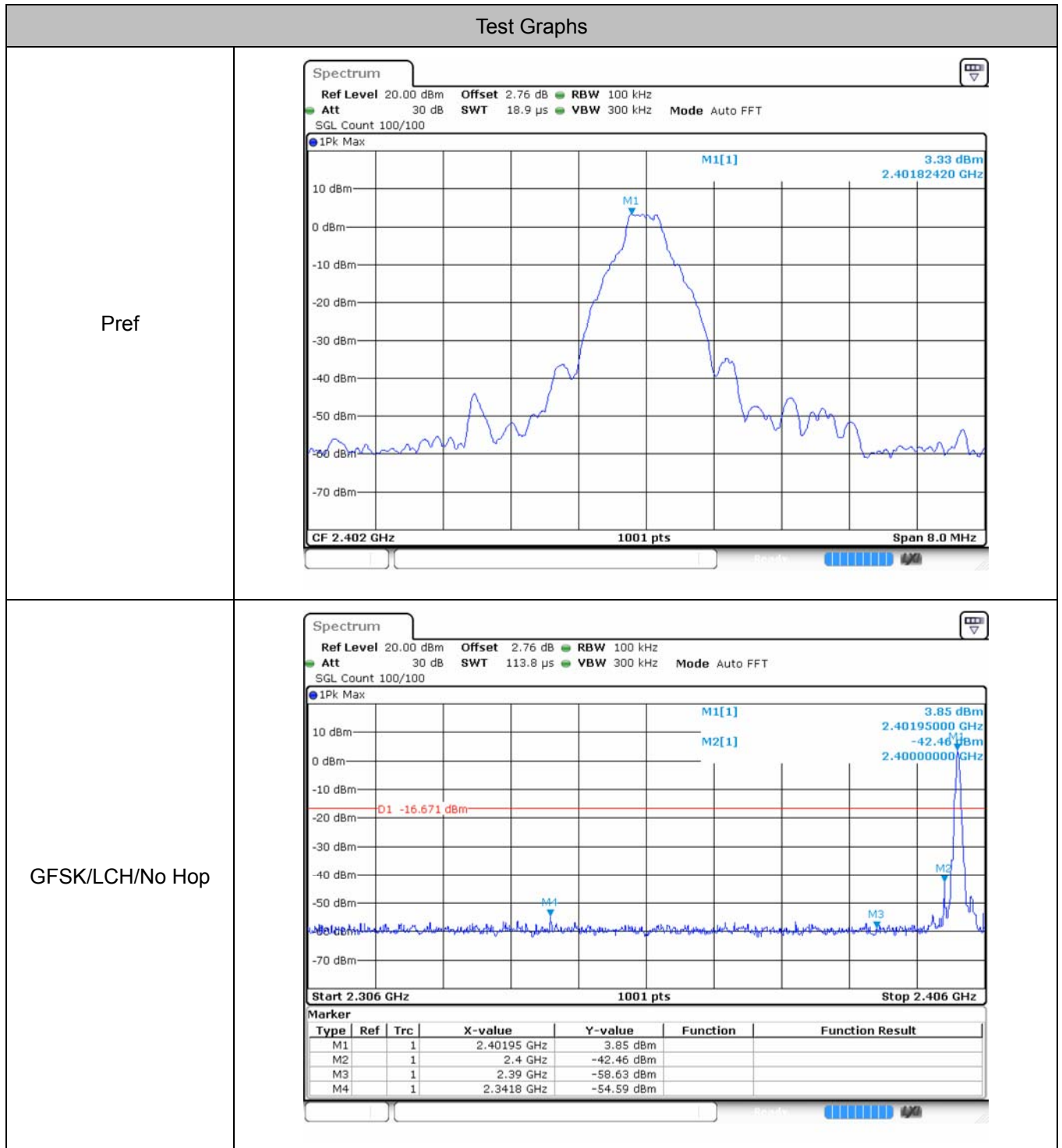
Ref



8DPSK/HCH/Hop



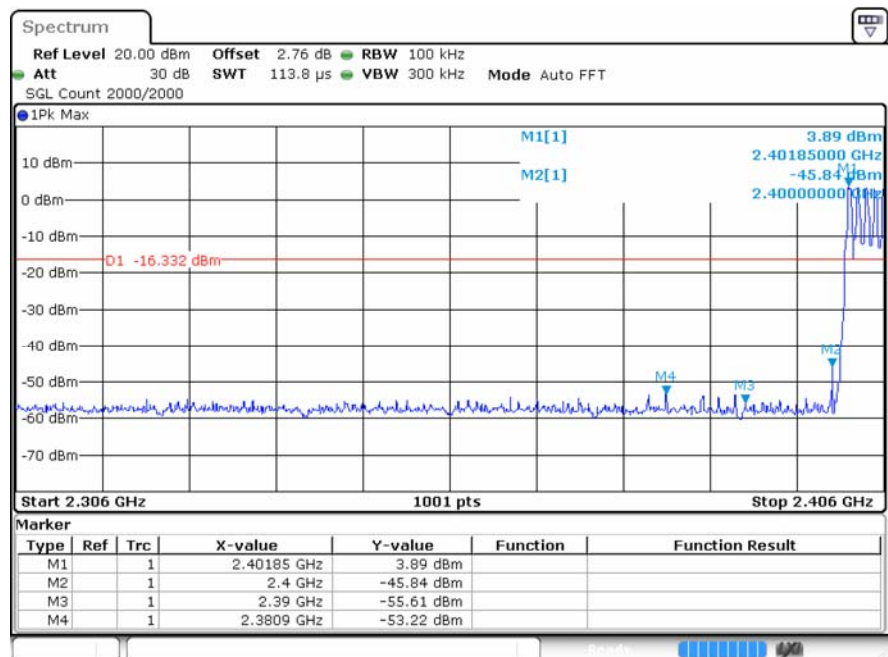
Right:



Ref



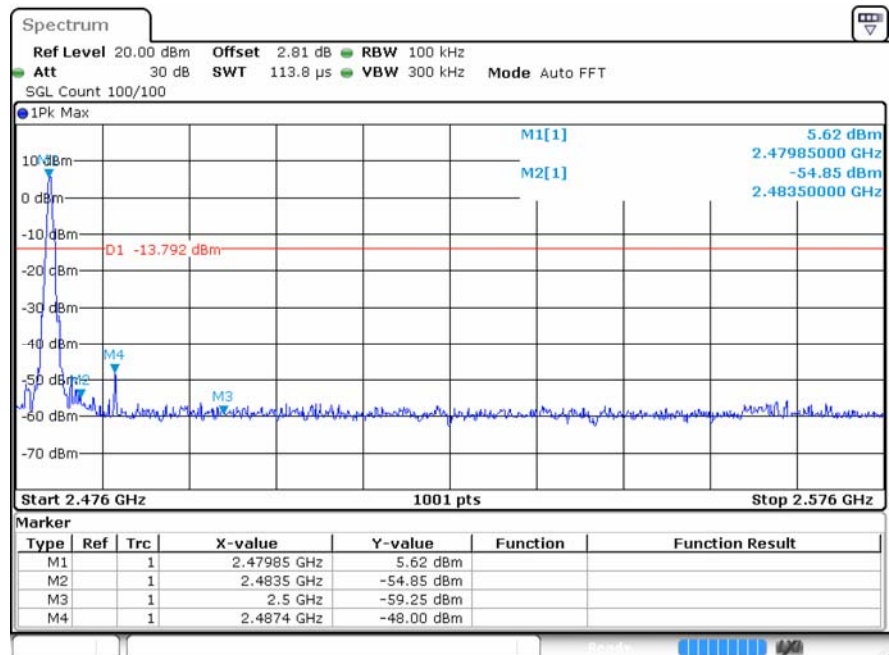
GFSK/LCH/Hop



Ref



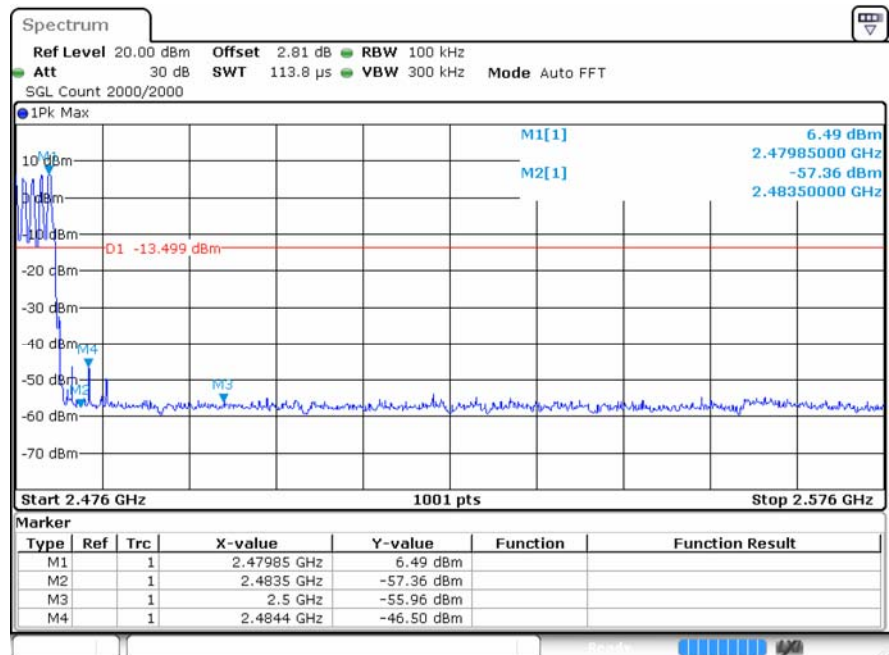
GFSK/HCH/No Hop



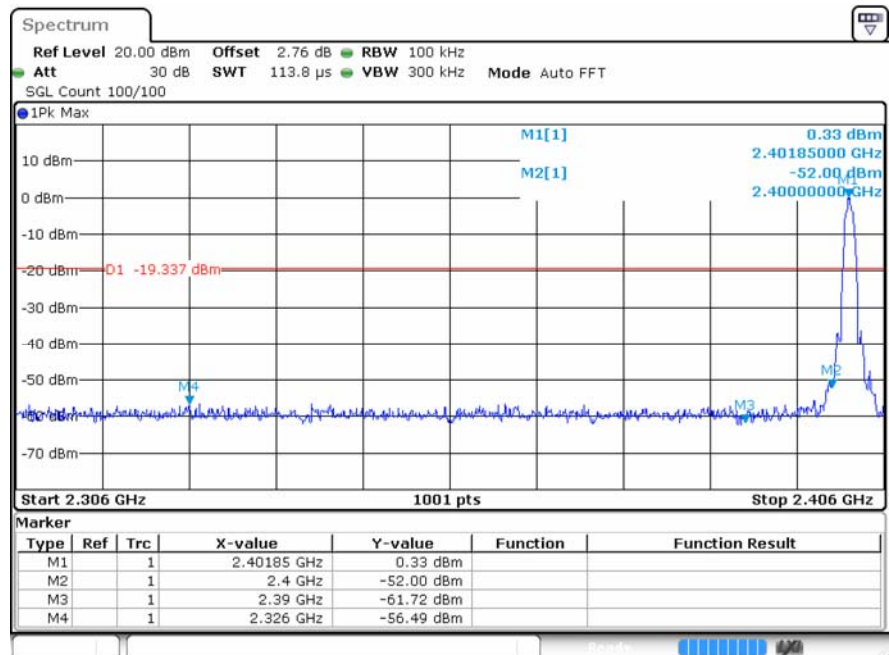
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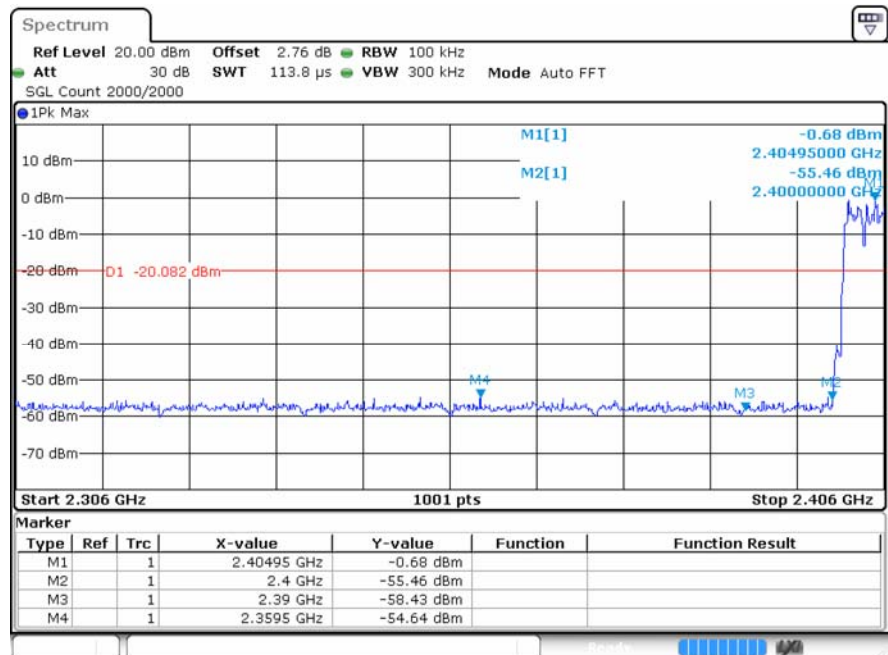
GFSK/HCH/Hop



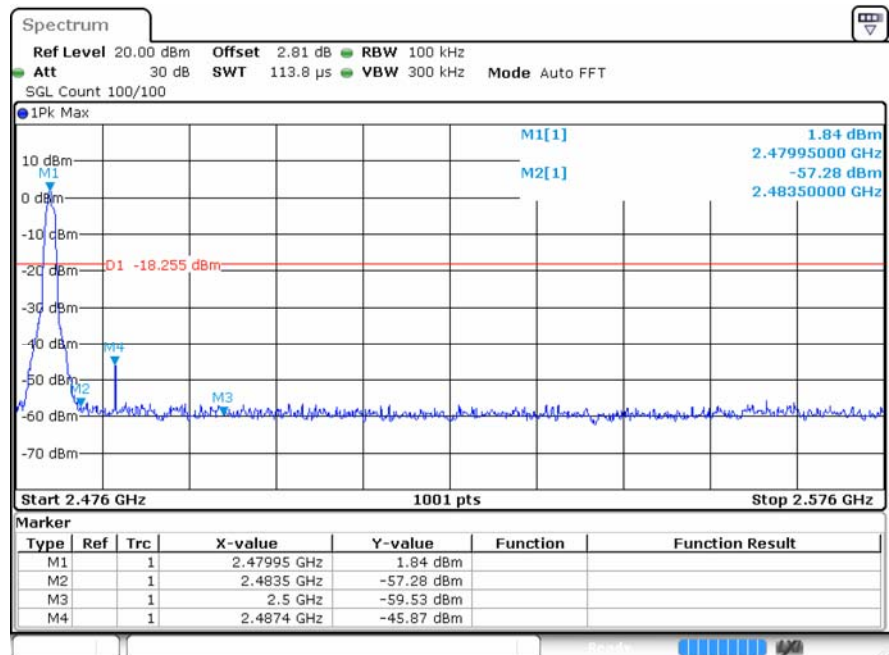
Ref


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


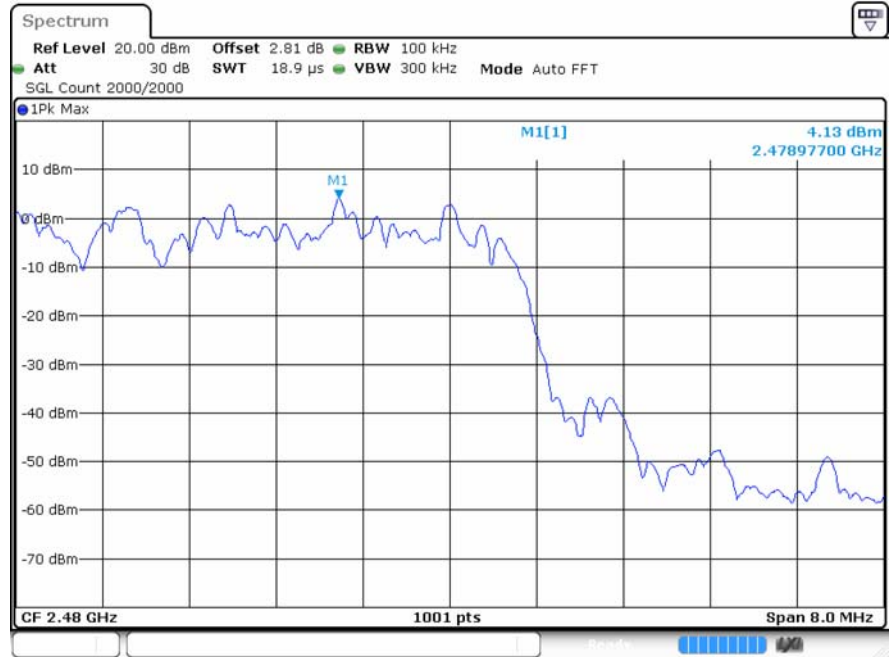
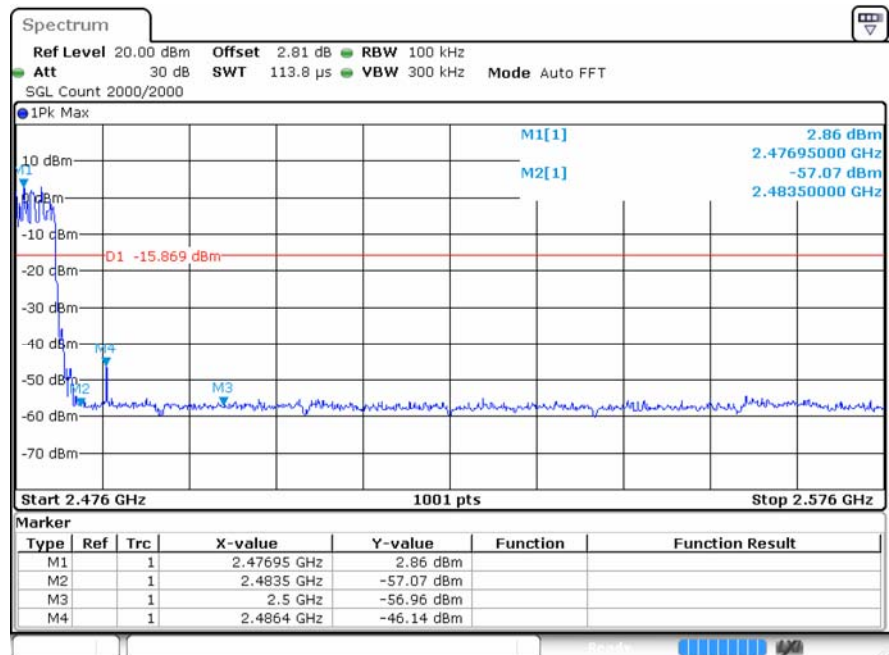
Ref


 $\pi/4$ DQPSK/LCH/Hop


Ref


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


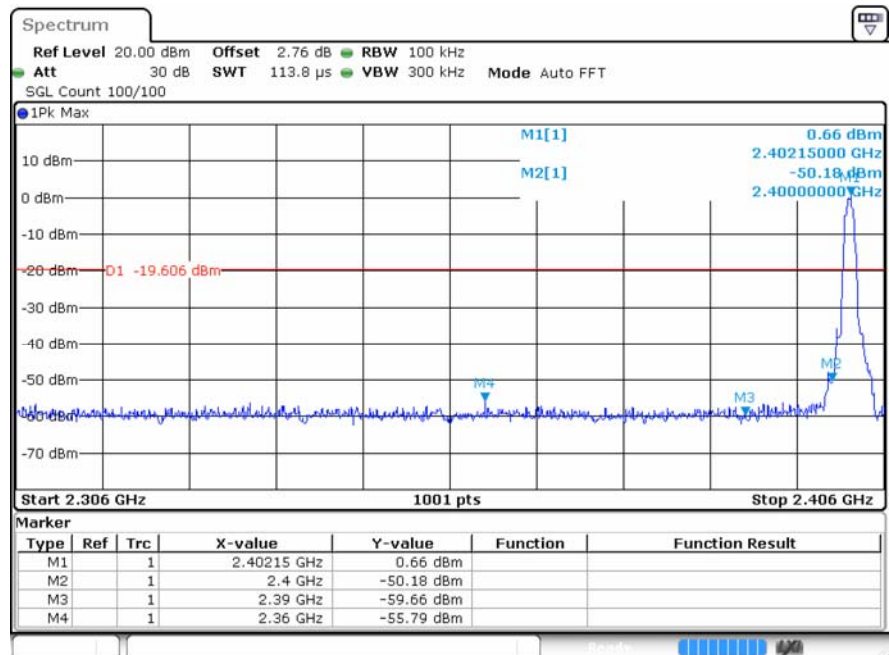
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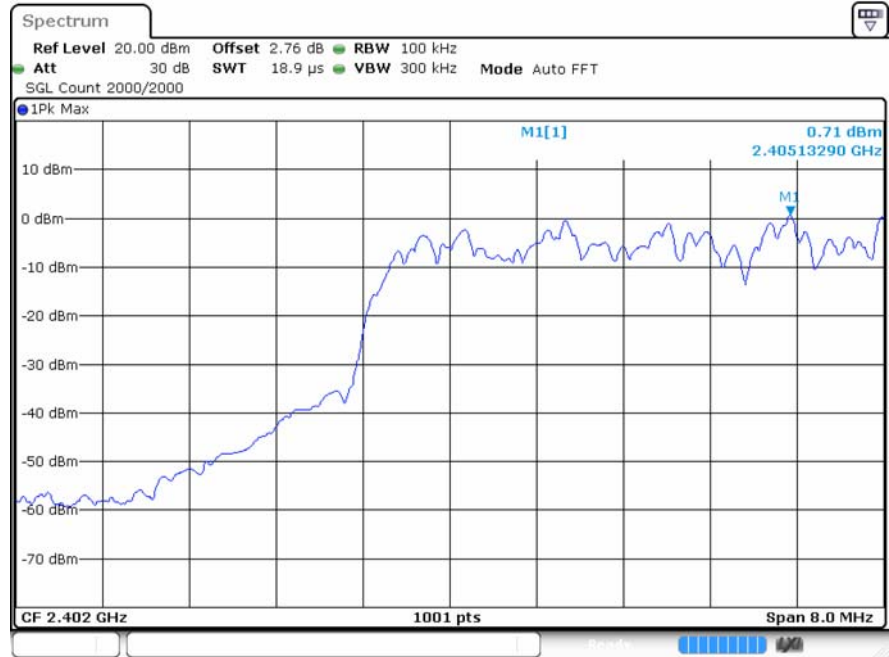
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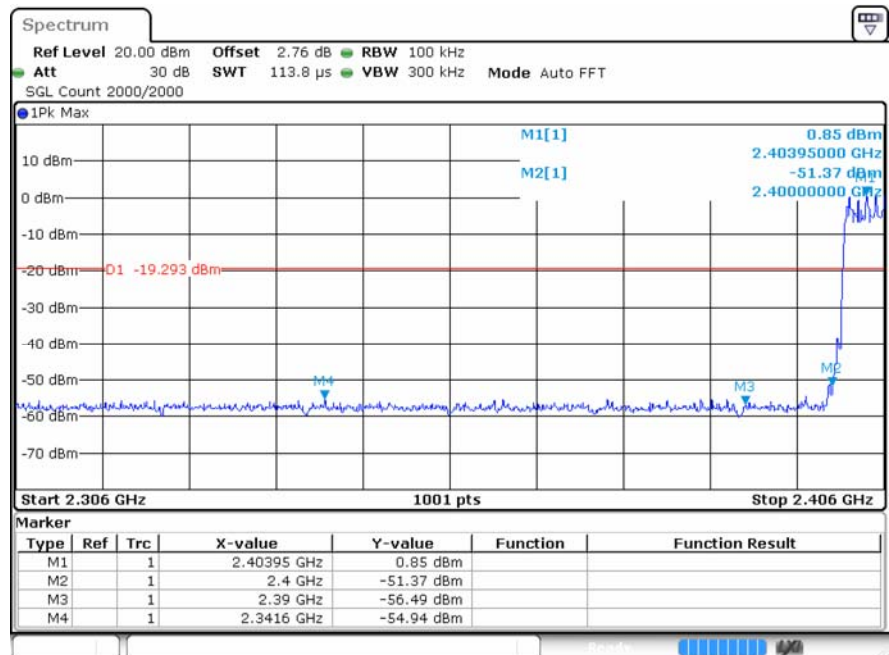
8DPSK/LCH/No Hop



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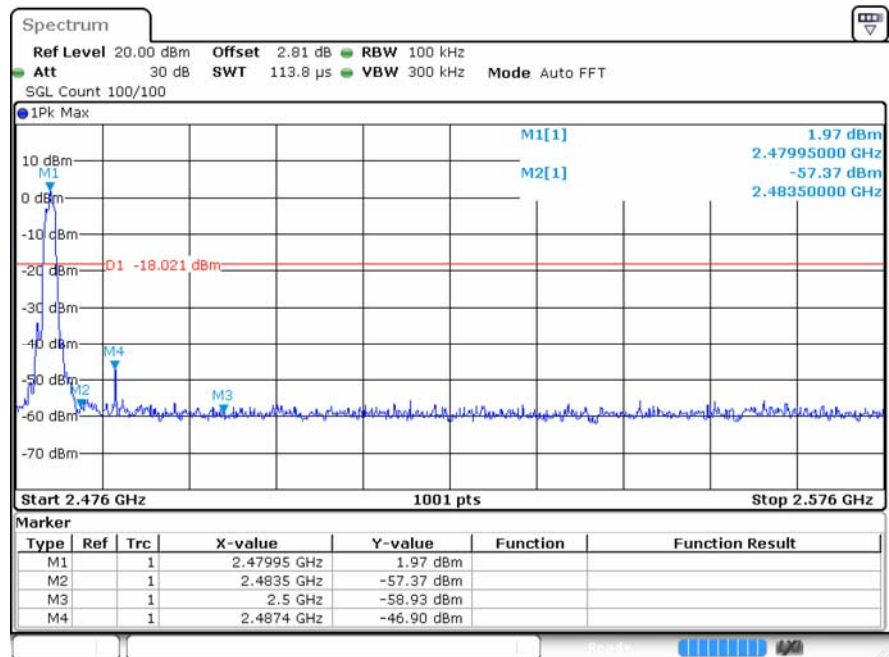
8DPSK/LCH/Hop

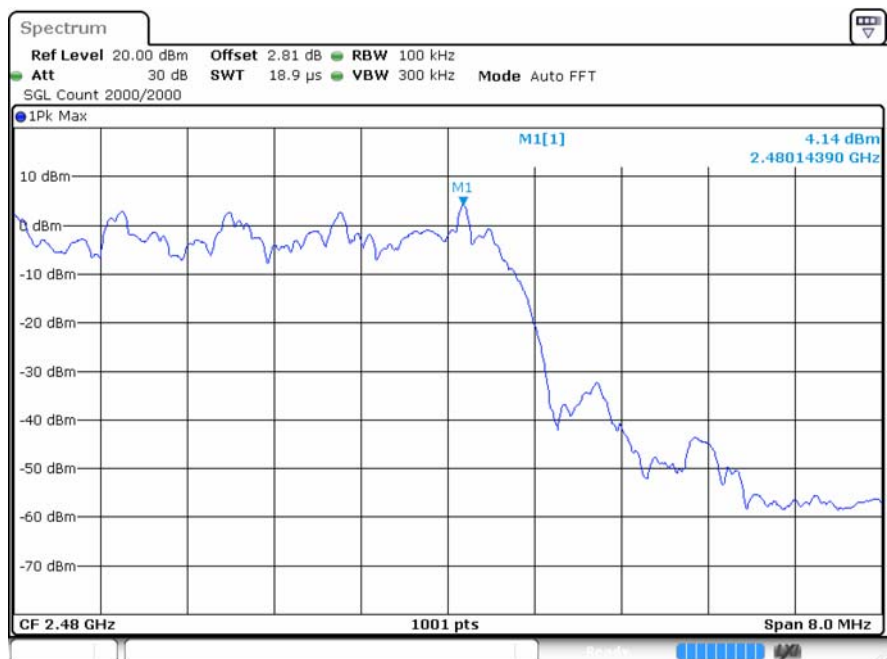


Ref



8DPSK/HCH/No Hop





Spectrum

Ref Level 20.00 dBm Offset 2.81 dB RBW 100 kHz
 Att 30 dB SWT 113.8 μs VBW 300 kHz Mode Auto FFT
 SGL Count 2000/2000

1Pk Max

M1[1] 2.90 dBm
 M2[1] 2.47795000 GHz -46.27 dBm
 M3 2.48350000 GHz -46.27 dBm

D1 -15.859 dBm

Start 2.476 GHz 1001 pts Stop 2.576 GHz

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47795 GHz	2.90 dBm		
M2		1	2.4835 GHz	-46.27 dBm		
M3		1	2.5 GHz	-57.49 dBm		
M4		1	2.4835 GHz	-46.27 dBm		

9 Restrict-band band-edge measurements

9.1 Test Result

Left:

Test Mode	Hopping	Freq.	Power [dBm]	Gain	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-49.62	2	47.64	PEAK	74	Pass
	Off	2310.0	-58.55	2	38.71	AV	54	Pass
	Off	2339.664	-46.17	2	51.09	PEAK	74	Pass
	Off	2342.064	-55.7	2	41.56	AV	54	Pass
	Off	2390.0	-50.48	2	46.78	PEAK	74	Pass
	Off	2390.0	-58.61	2	38.65	AV	54	Pass
	Off	2483.5	-46.56	2	50.7	PEAK	74	Pass
	Off	2483.5	-54.08	2	43.18	AV	54	Pass
	Off	2487.424	-46.22	2	51.04	PEAK	74	Pass
	Off	2483.512	-54.08	2	43.18	AV	54	Pass
	Off	2500.0	-49.55	2	47.71	PEAK	74	Pass
	Off	2500.0	-57.91	2	39.35	AV	54	Pass
$\pi/4$ DQPSK	Off	2310.0	-51.26	2	46	PEAK	74	Pass
	Off	2310.0	-58.37	2	38.89	AV	54	Pass
	Off	2340.048	-46.12	2	51.14	PEAK	74	Pass
	Off	2341.968	-56.27	2	40.99	AV	54	Pass
	Off	2390.0	-51.47	2	45.79	PEAK	74	Pass
	Off	2390.0	-58.09	2	39.17	AV	54	Pass
	Off	2483.5	-48.45	2	48.81	PEAK	74	Pass
	Off	2483.5	-55.46	2	41.8	AV	54	Pass
	Off	2487.184	-45.77	2	51.49	PEAK	74	Pass
	Off	2483.824	-55.37	2	41.89	AV	54	Pass
	Off	2500.0	-49.26	2	48	PEAK	74	Pass
	Off	2500.0	-58.23	2	39.03	AV	54	Pass
8DPSK	Off	2310.0	-50.9	2	46.36	PEAK	74	Pass
	Off	2310.0	-58.38	2	38.88	AV	54	Pass
	Off	2346.384	-46.84	2	50.42	PEAK	74	Pass
	Off	2339.952	-56.32	2	40.94	AV	54	Pass



	Off	2390.0	-49.16	2	48.1	PEAK	74	Pass
	Off	2390.0	-58	2	39.26	AV	54	Pass
	Off	2483.5	-49.58	2	47.68	PEAK	74	Pass
	Off	2483.5	-55.65	2	41.61	AV	54	Pass
	Off	2485.888	-46.09	2	51.17	PEAK	74	Pass
	Off	2484.256	-55.51	2	41.75	AV	54	Pass
	Off	2500.0	-49.58	2	47.68	PEAK	74	Pass
	Off	2500.0	-57.88	2	39.38	AV	54	Pass

Right:

Test Mode	Hopping	Freq.	Power [dBm]	Gain	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-49.88	2	47.38	PEAK	74	Pass
	Off	2310.0	-58.14	2	39.12	AV	54	Pass
	Off	2364.24	-47.4	2	49.86	PEAK	74	Pass
	Off	2341.968	-55.37	2	41.89	AV	54	Pass
	Off	2390.0	-49.75	2	47.51	PEAK	74	Pass
	Off	2390.0	-58.54	2	38.72	AV	54	Pass
	Off	2483.5	-45.81	2	51.45	PEAK	74	Pass
	Off	2483.5	-54.79	2	42.47	AV	54	Pass
	Off	2487.376	-44.67	2	52.59	PEAK	74	Pass
	Off	2484.136	-54.75	2	42.51	AV	54	Pass
	Off	2500.0	-51.54	2	45.72	PEAK	74	Pass
	Off	2500.0	-57.35	2	39.91	AV	54	Pass
$\pi/4$ DQPSK	Off	2310.0	-50.77	2	46.49	PEAK	74	Pass
	Off	2310.0	-58.5	2	38.76	AV	54	Pass
	Off	2347.92	-46.23	2	51.03	PEAK	74	Pass
	Off	2341.872	-56.43	2	40.83	AV	54	Pass
	Off	2390.0	-50.53	2	46.73	PEAK	74	Pass
	Off	2390.0	-58.7	2	38.56	AV	54	Pass
	Off	2483.5	-49.95	2	47.31	PEAK	74	Pass
	Off	2483.5	-55.81	2	41.45	AV	54	Pass
	Off	2492.92	-46.61	2	50.65	PEAK	74	Pass
	Off	2484.064	-55.54	2	41.72	AV	54	Pass
	Off	2500.0	-50.16	2	47.1	PEAK	74	Pass
	Off	2500.0	-57.39	2	39.87	AV	54	Pass
8DPSK	Off	2310.0	-50.39	2	46.87	PEAK	74	Pass

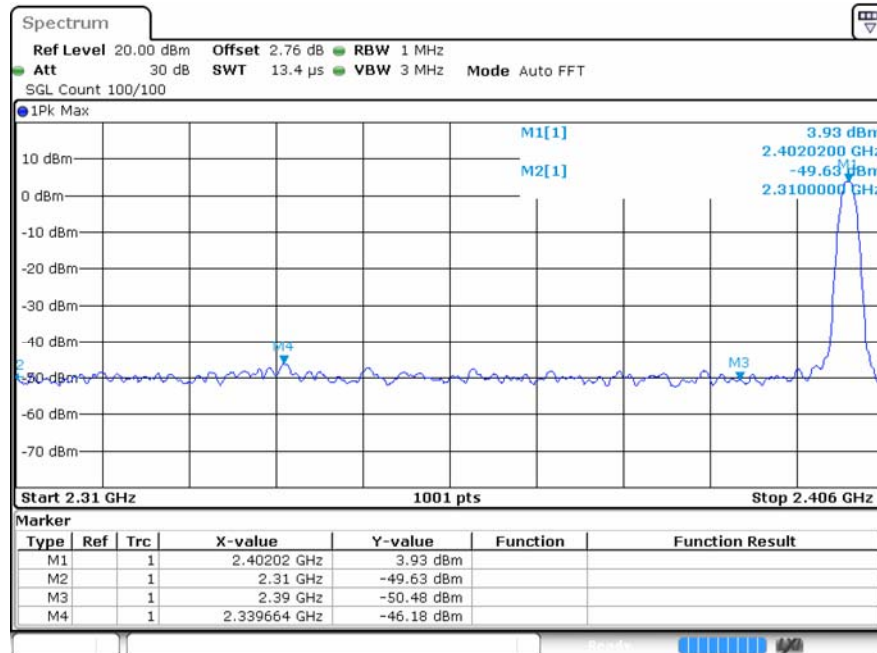


	Off	2310.0	-58.32	2	38.94	AV	54	Pass
	Off	2348.112	-46.35	2	50.91	PEAK	74	Pass
	Off	2341.488	-56.26	2	41	AV	54	Pass
	Off	2390.0	-50.77	2	46.49	PEAK	74	Pass
	Off	2390.0	-58.05	2	39.21	AV	54	Pass
	Off	2483.5	-47.06	2	50.2	PEAK	74	Pass
	Off	2483.5	-55.45	2	41.81	AV	54	Pass
	Off	2487.424	-47.02	2	50.24	PEAK	74	Pass
	Off	2484.04	-54.49	2	42.77	AV	54	Pass
	Off	2500.0	-49.36	2	47.9	PEAK	74	Pass
	Off	2500.0	-57.63	2	39.63	AV	54	Pass

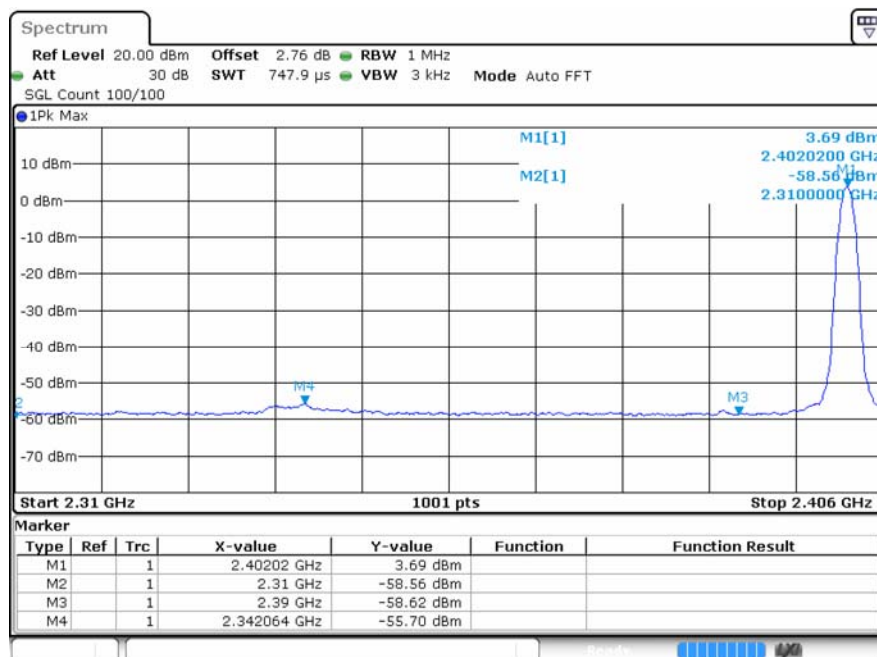
9.2 Test Graphs

9.3 Left:

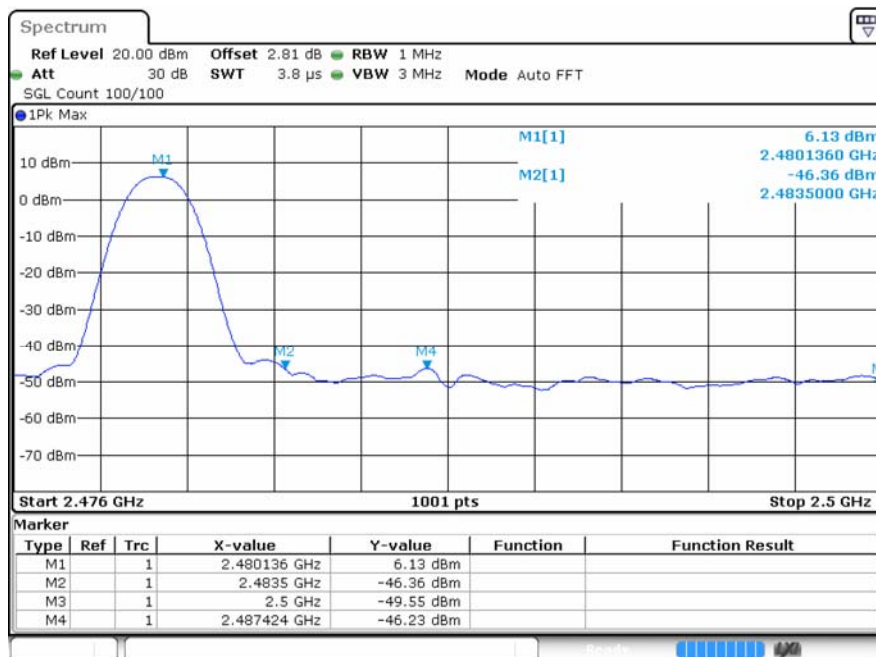
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (Low Channel)



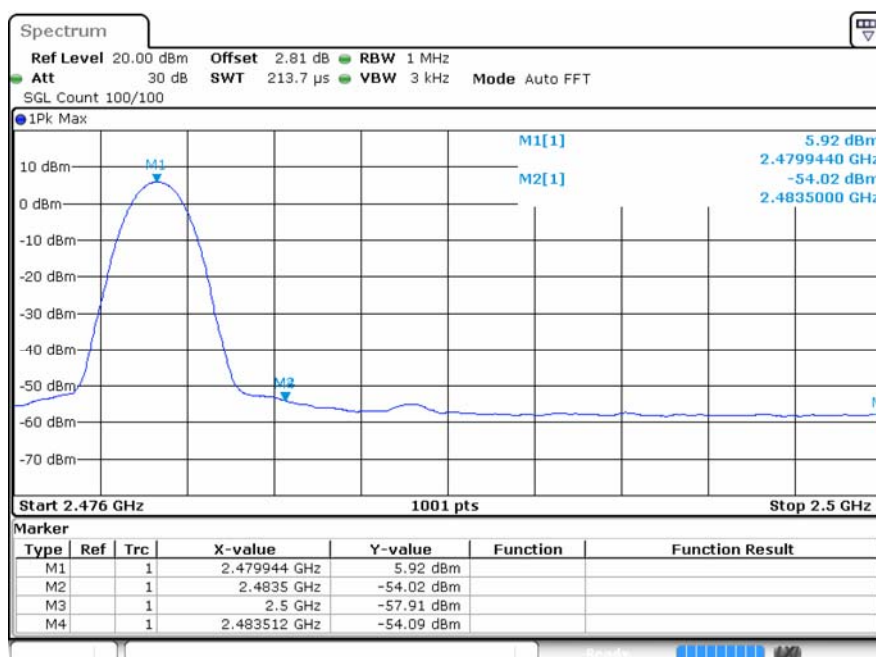
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



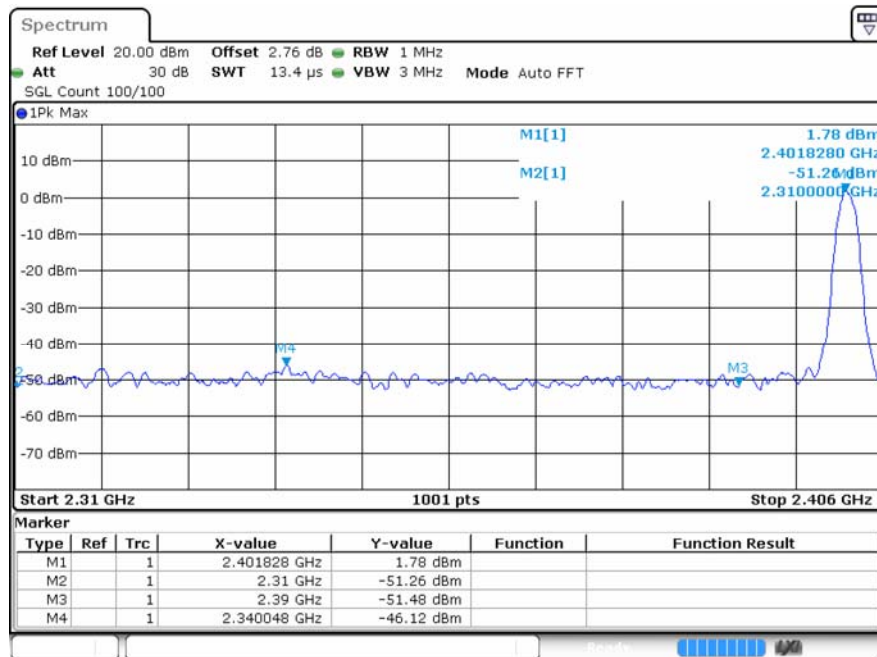
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



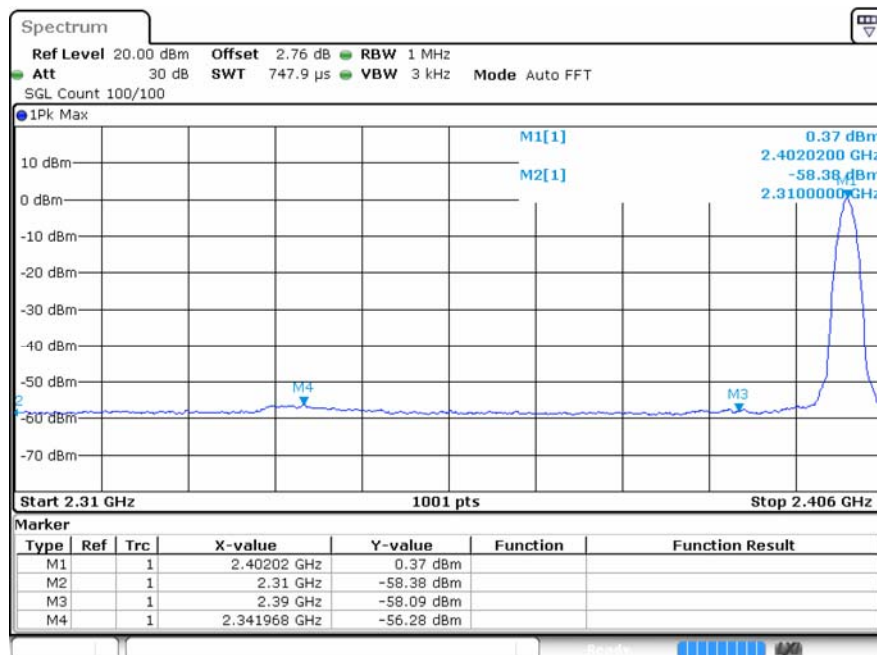
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



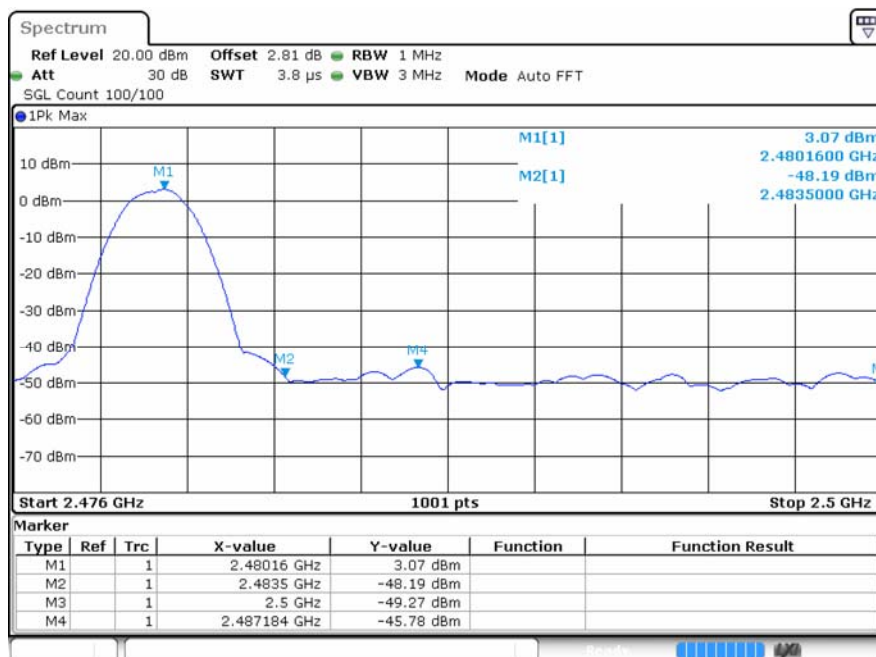
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



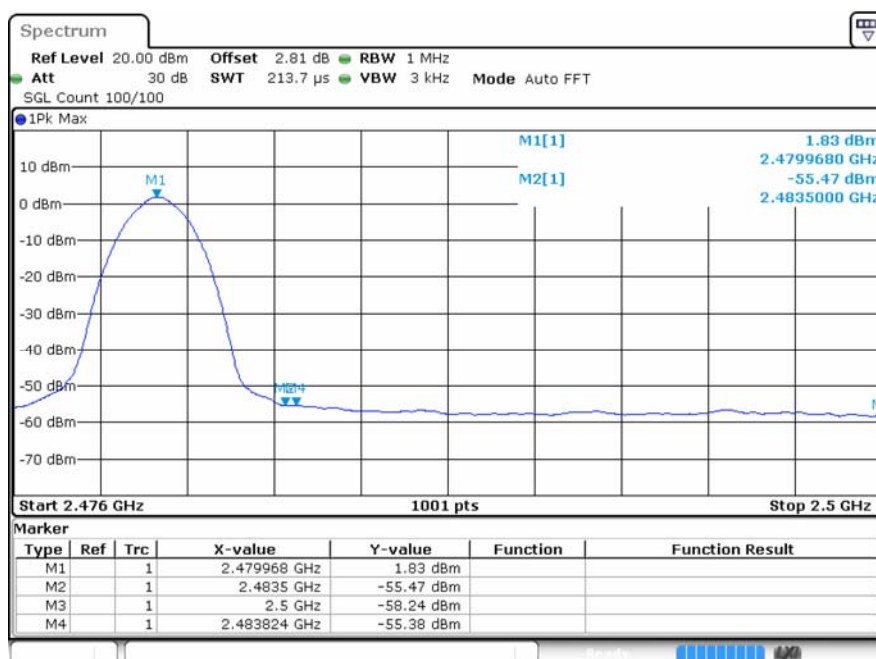
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



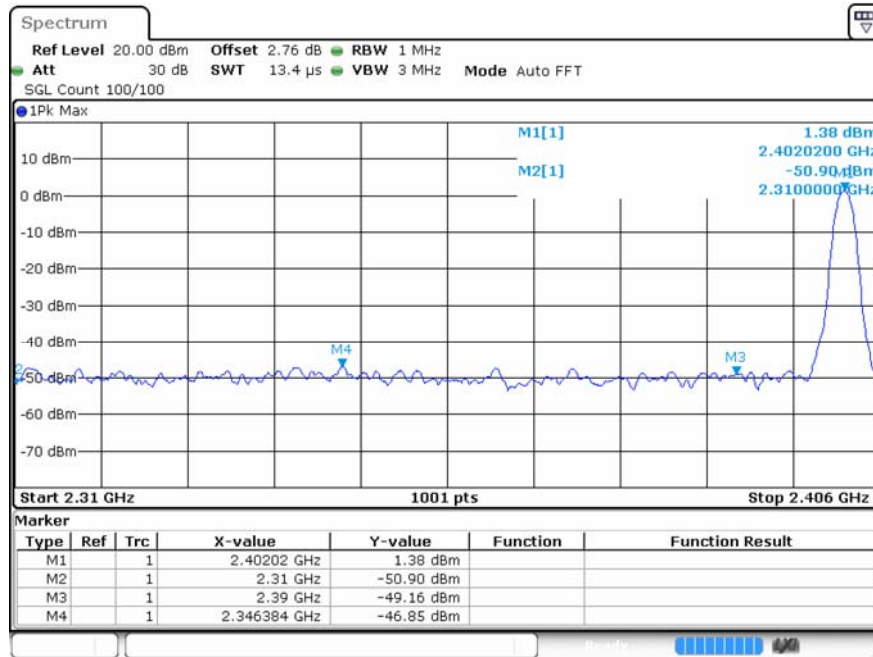
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



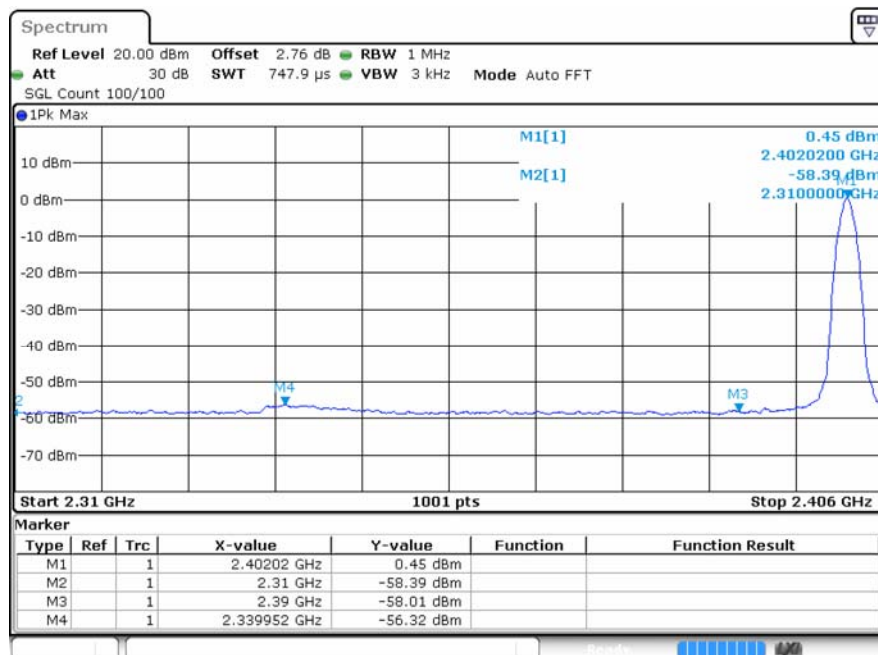
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



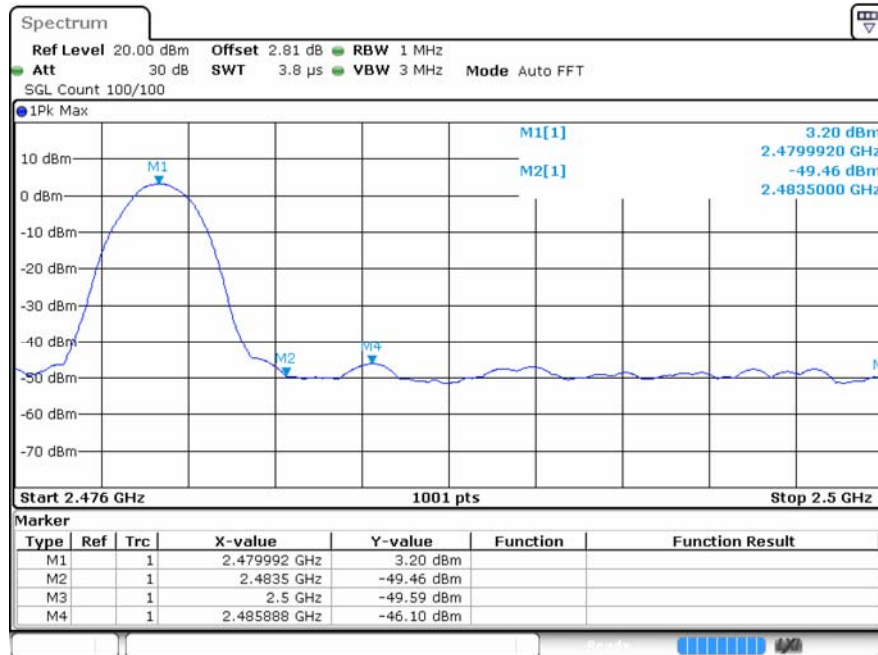
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



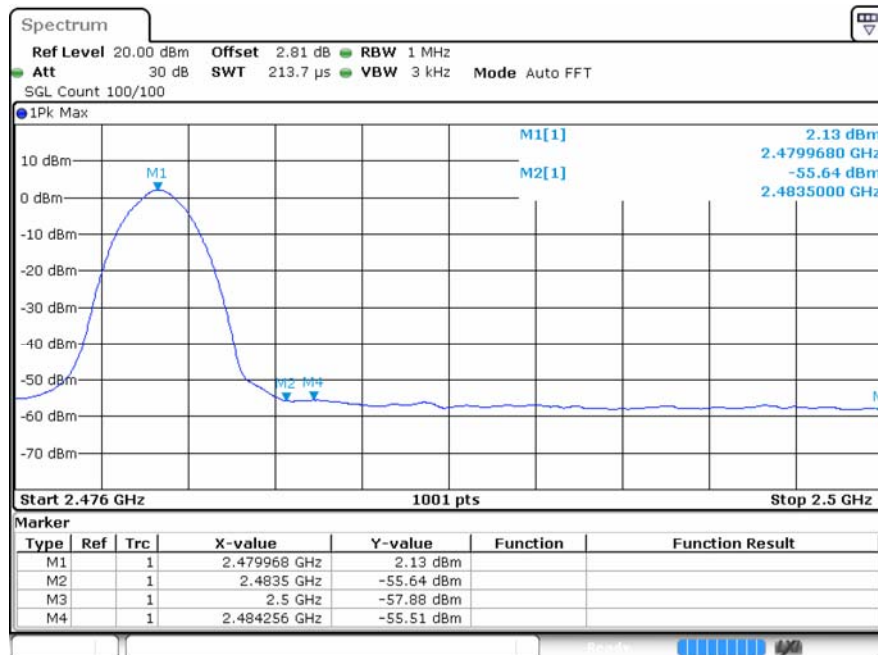
Restrict-band band-edge measurements_Hopping Off_8DPSK_Average (Low Channel)



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

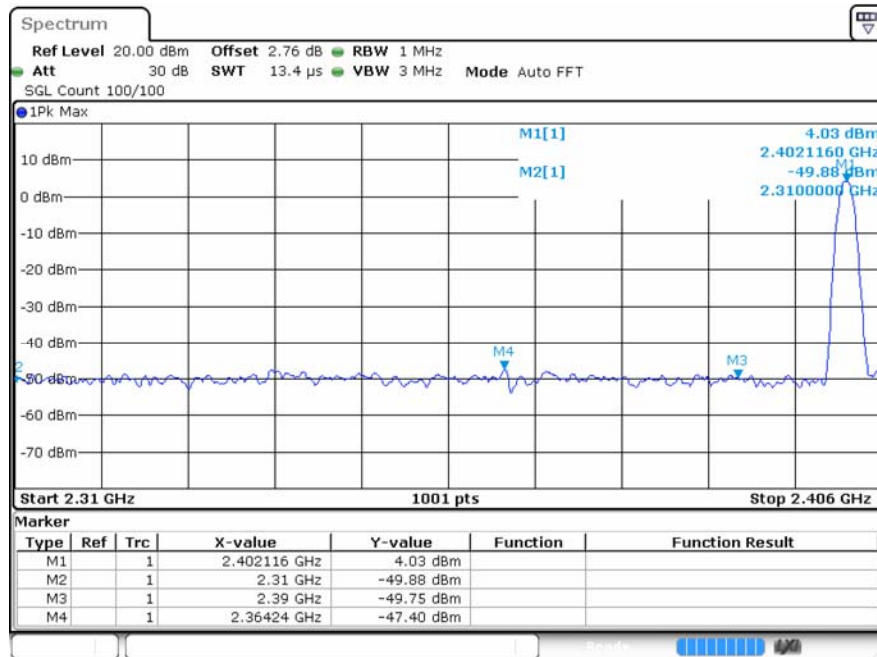


Restrict-band band-edge measurements_Hopping Off_8DPSK_Average (High Channel)

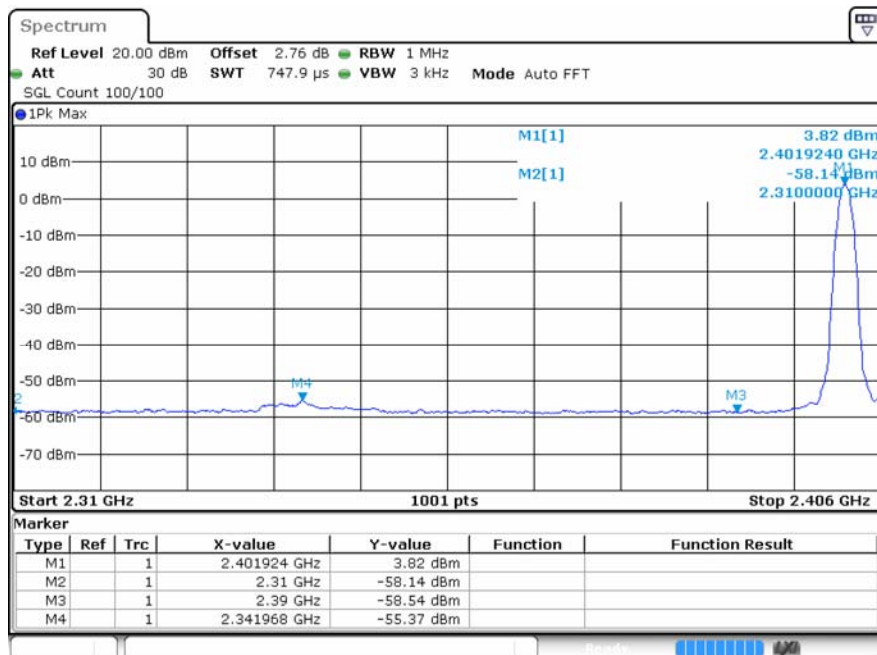


Right:

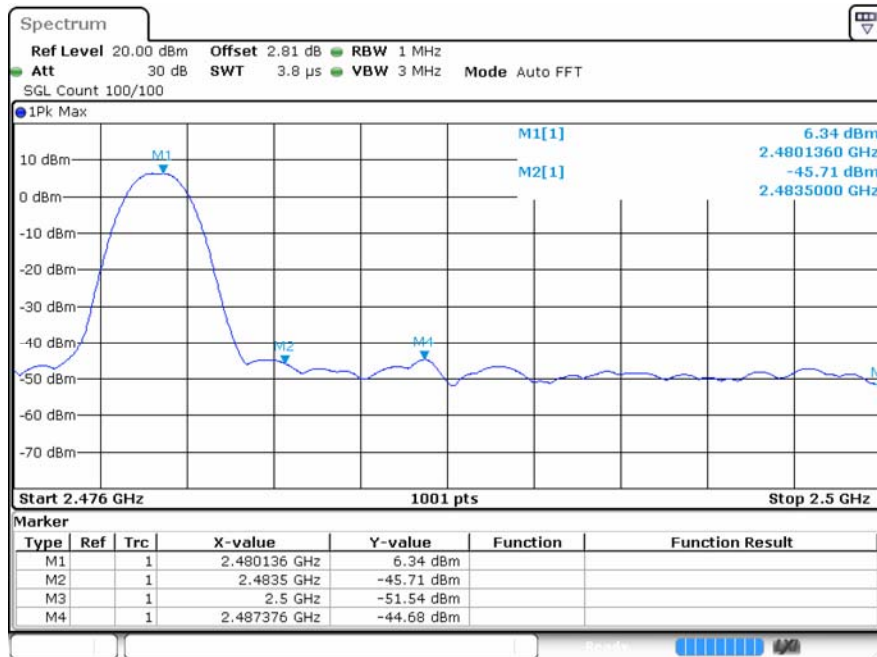
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (Low Channel)



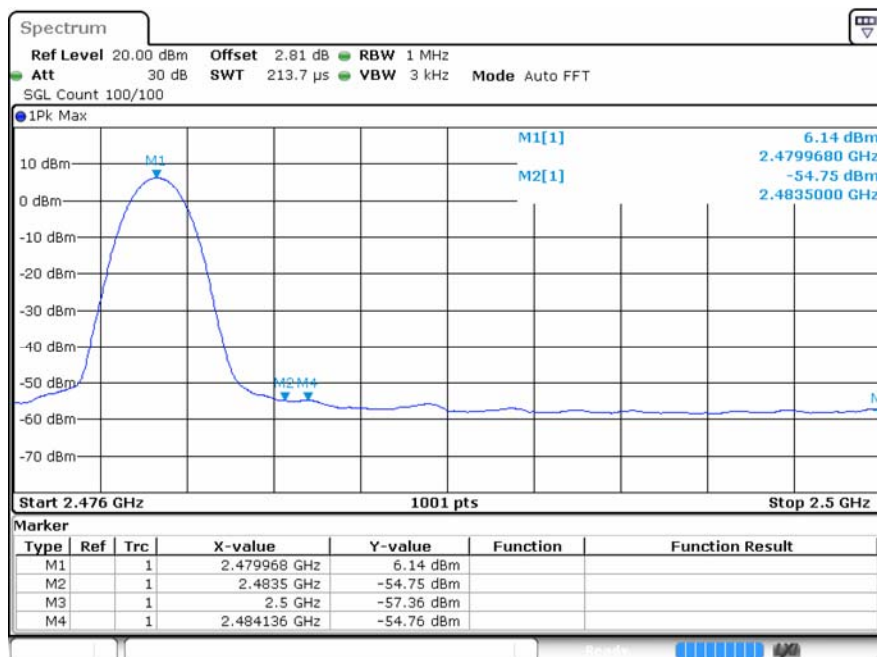
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



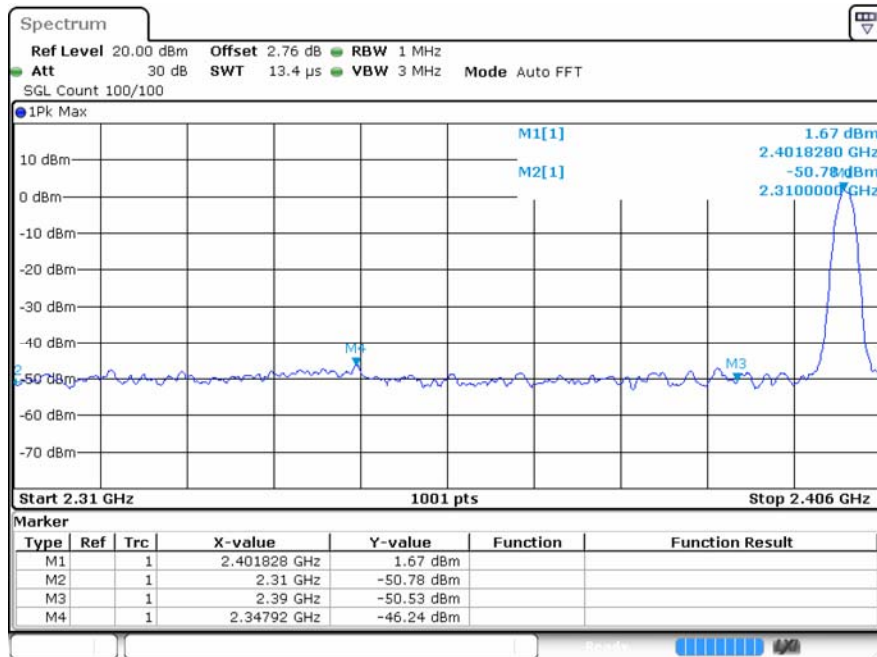
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



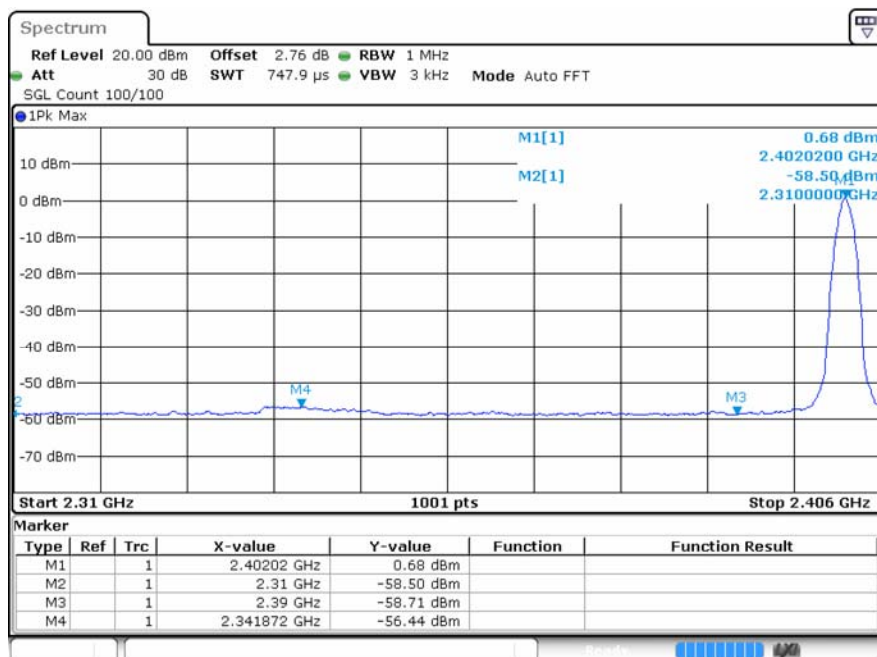
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



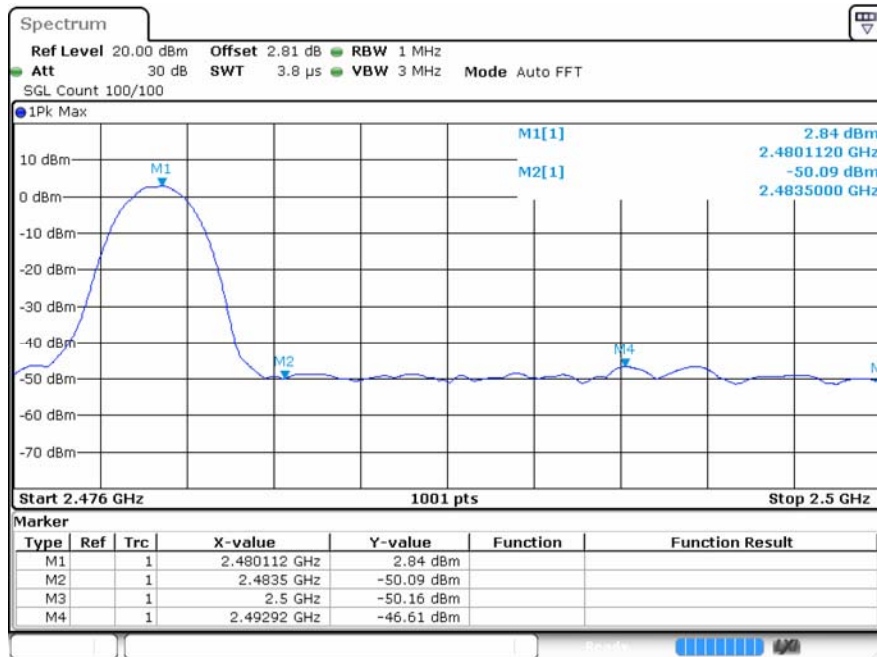
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



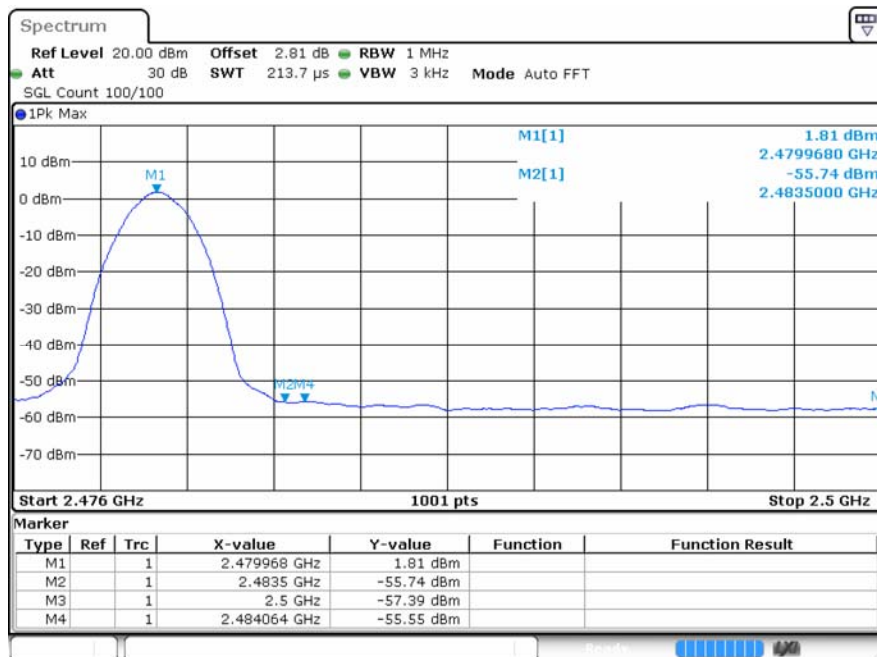
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



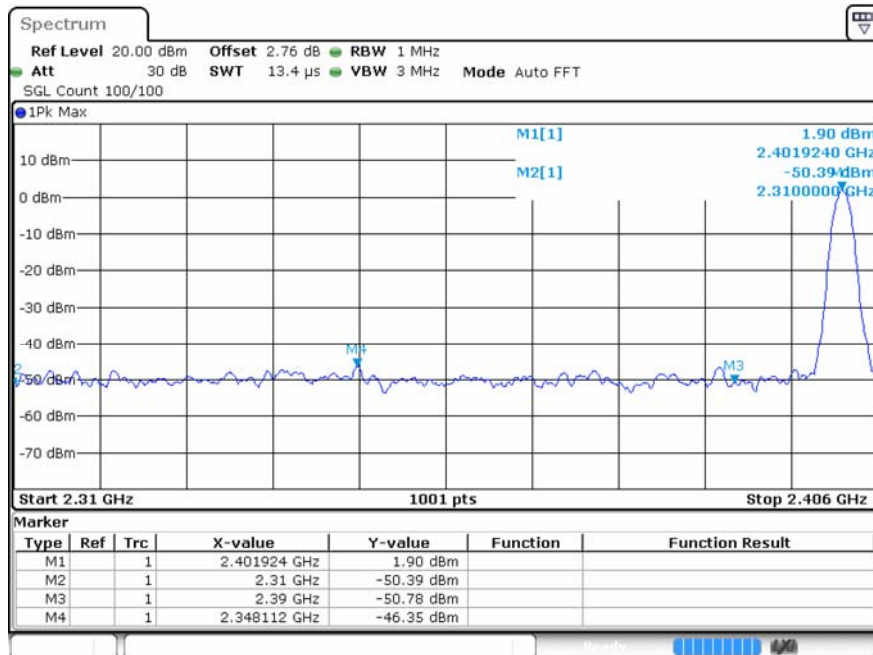
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



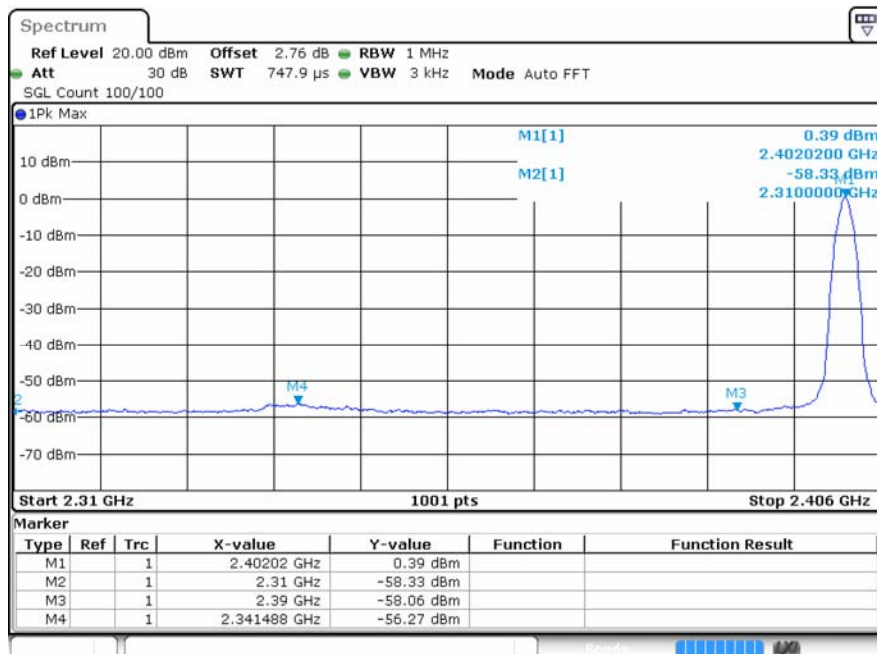
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



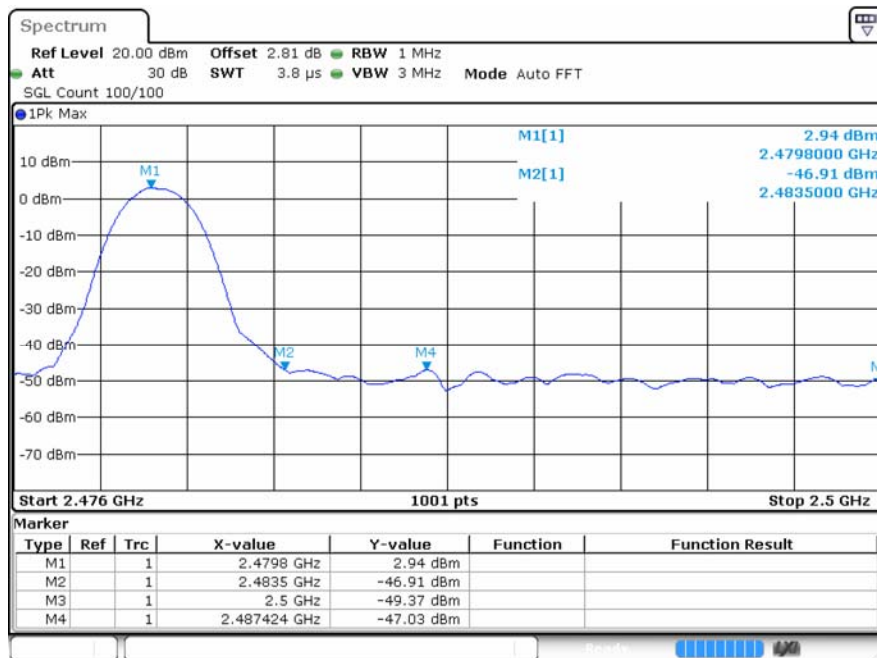
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



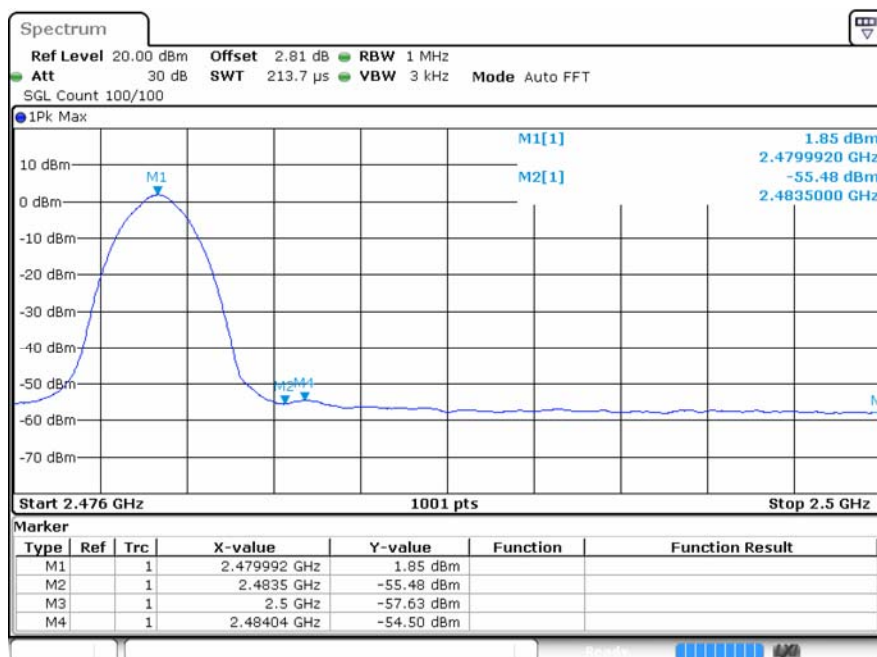
Restrict-band band-edge measurements_Hopping Off_8DPSK_Average (Low Channel)



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



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



---The End---