

Appendix A

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

Product Name: 4K ATV Stick

Trade Mark: N/A

Test Model: SN8B6BB

FCC ID: 2AOVU-SN8B6BB

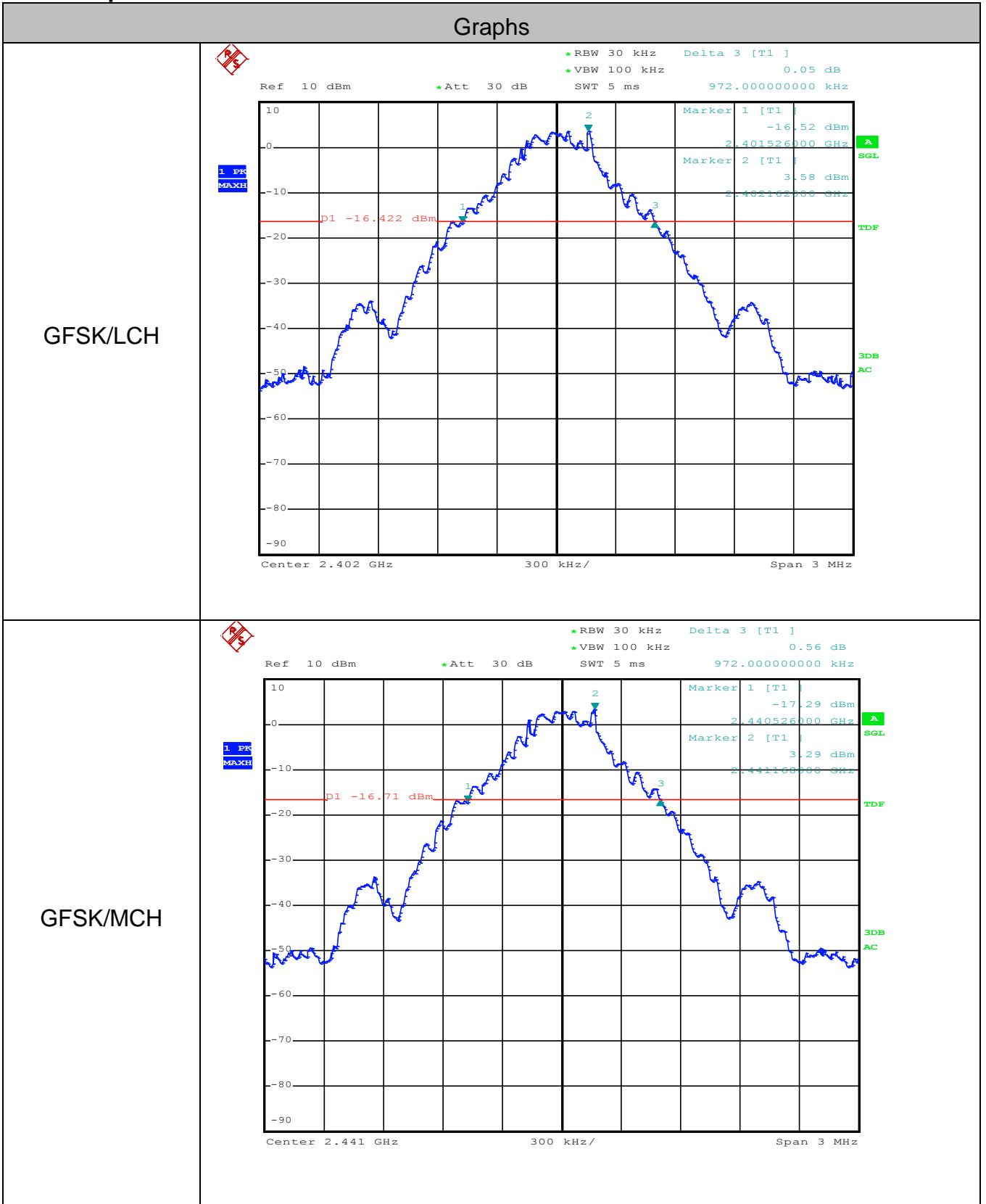
Environmental Conditions

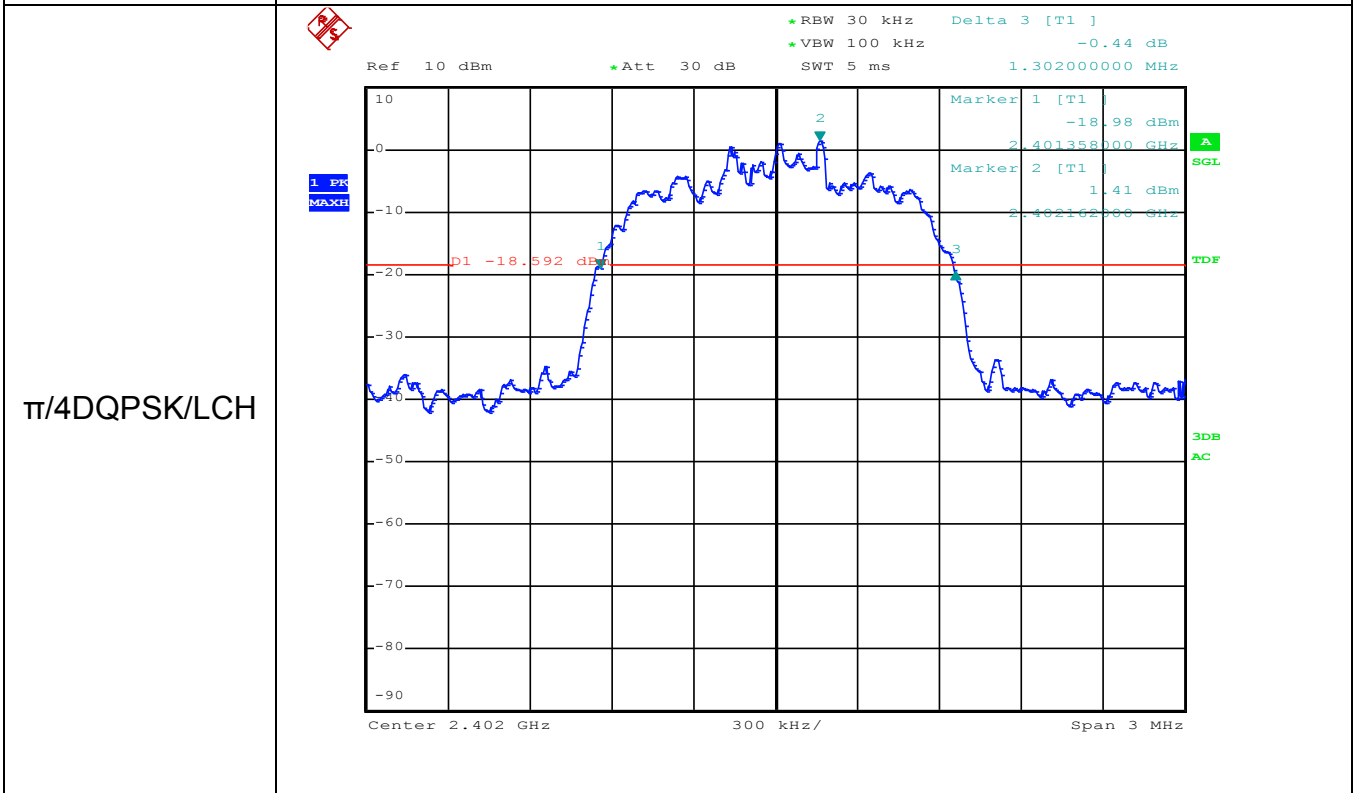
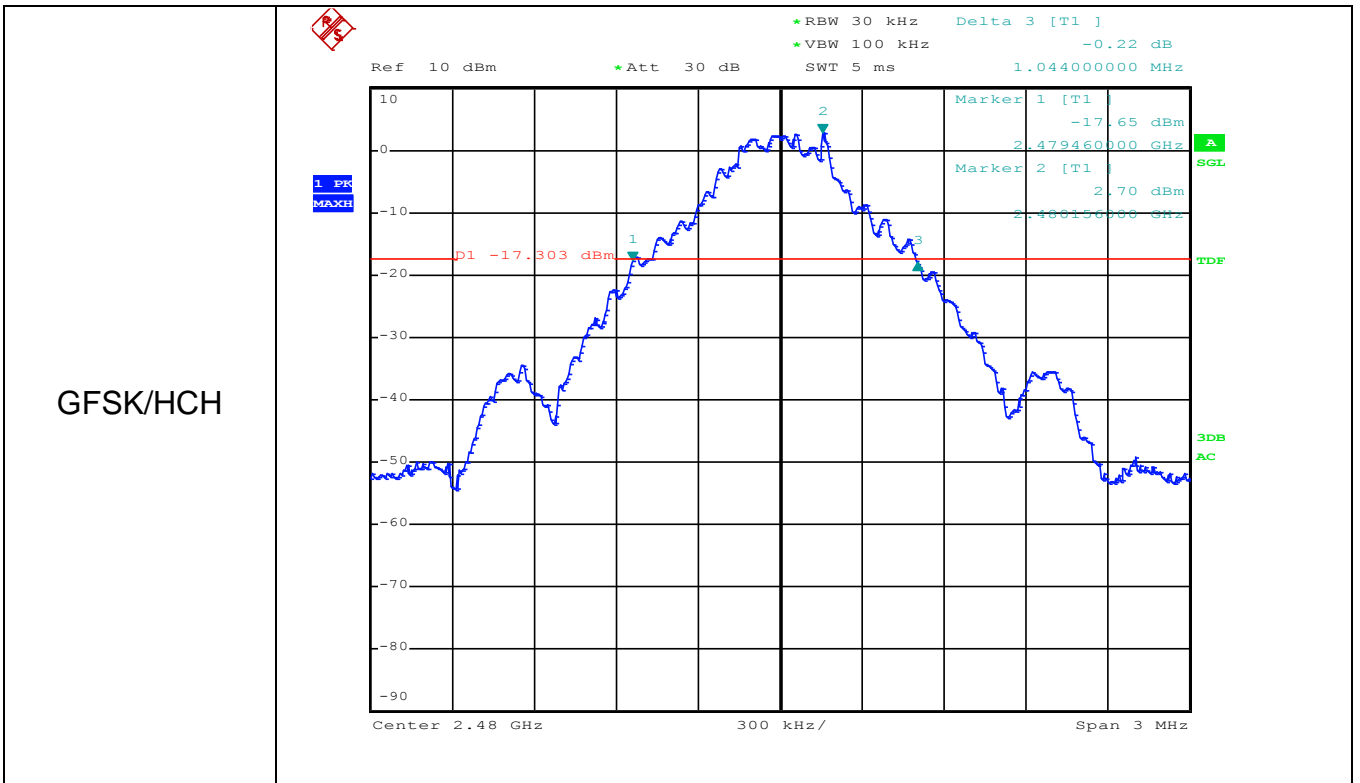
Temperature:	22.9 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Gary Qian
Supervised by:	Eden Hu

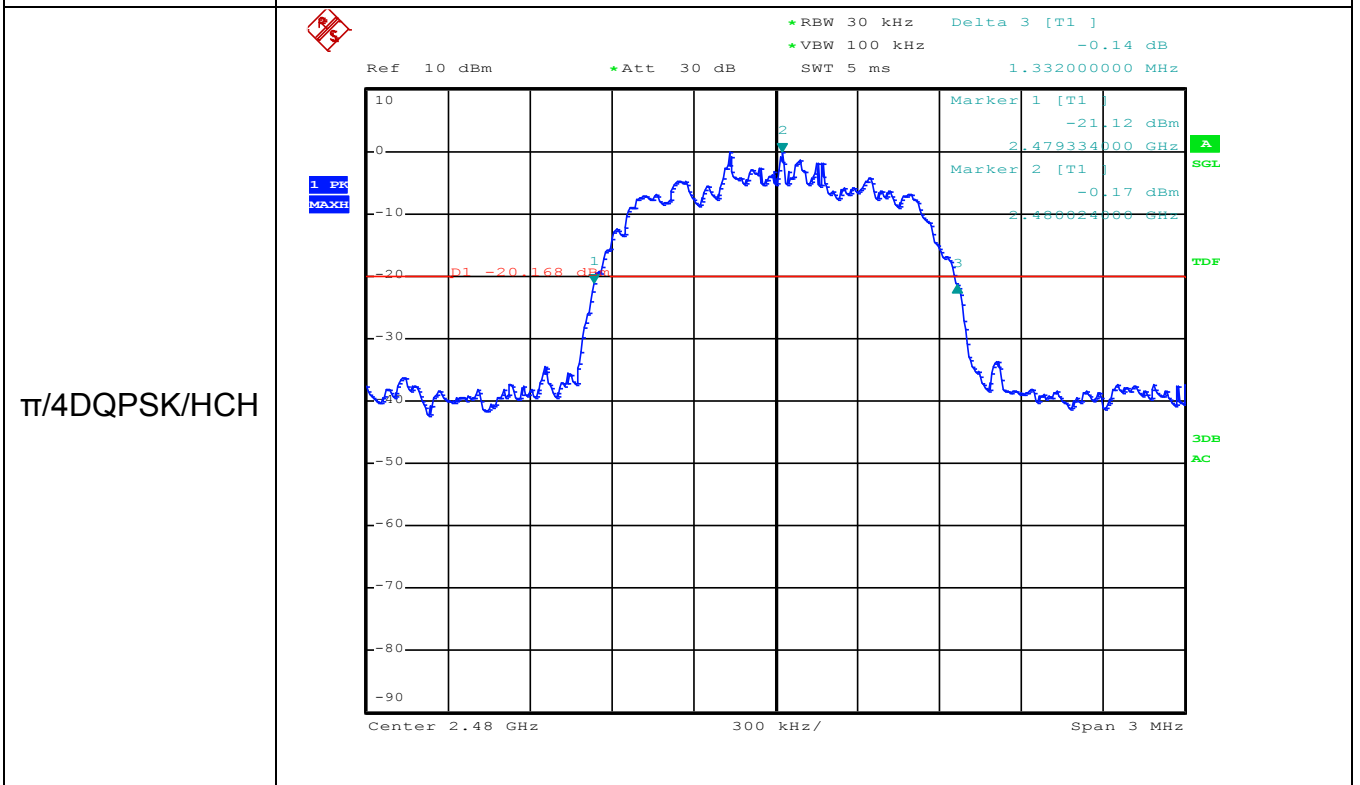
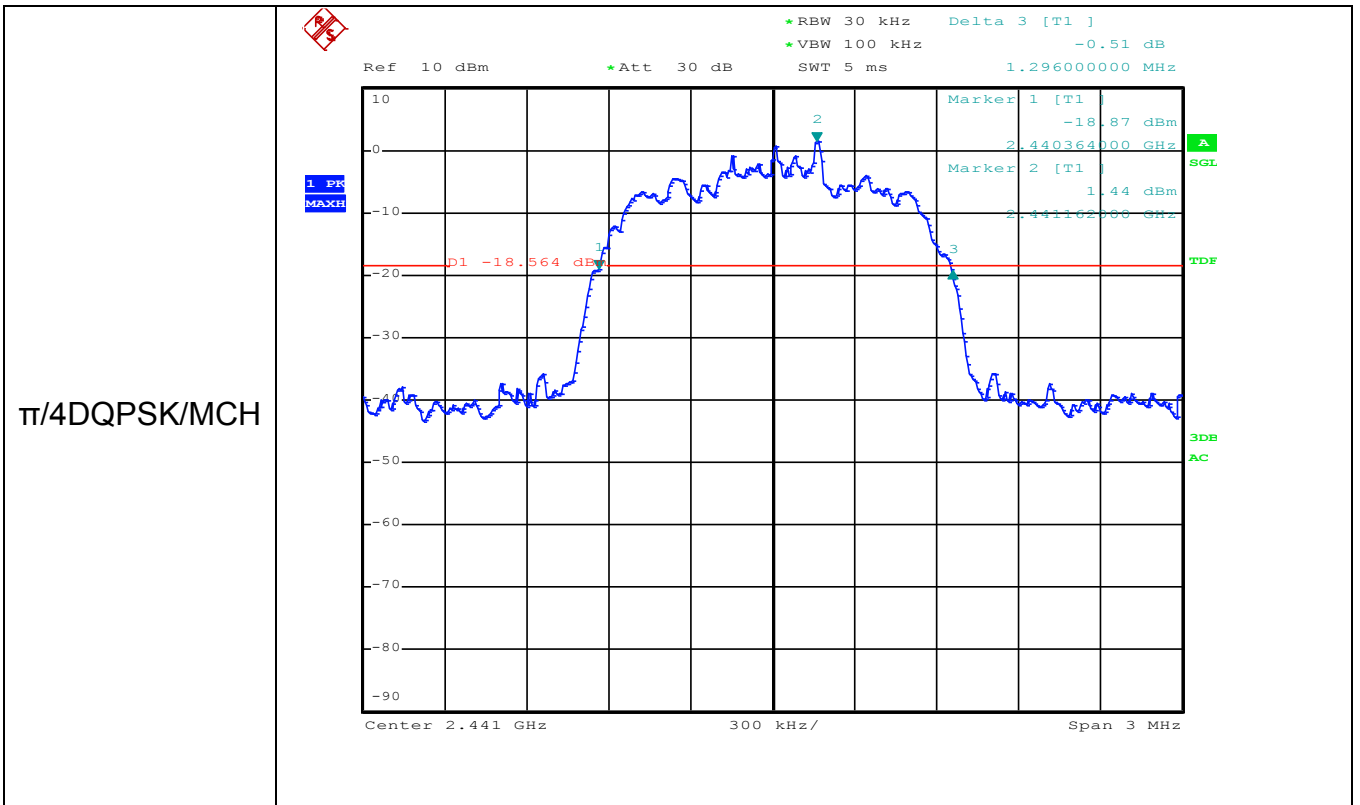
A.1 20 dB Bandwidth

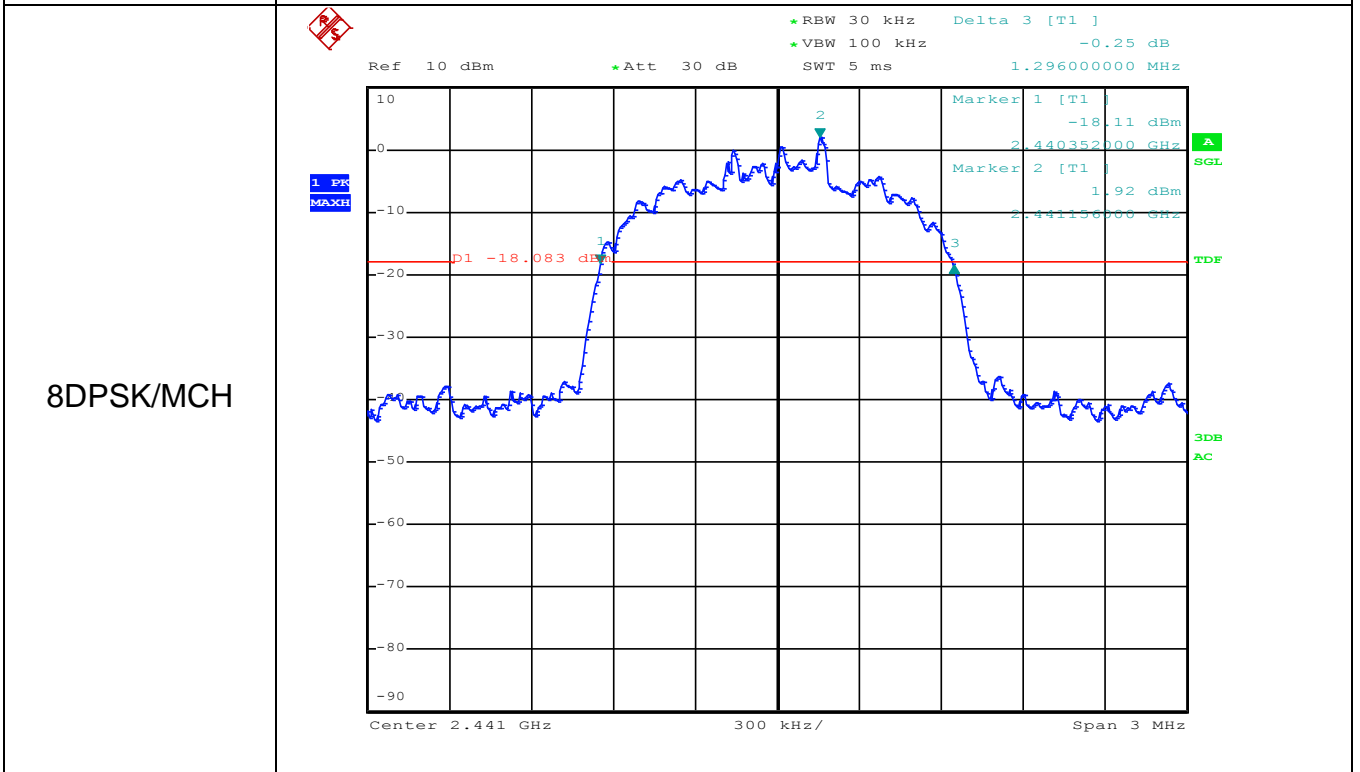
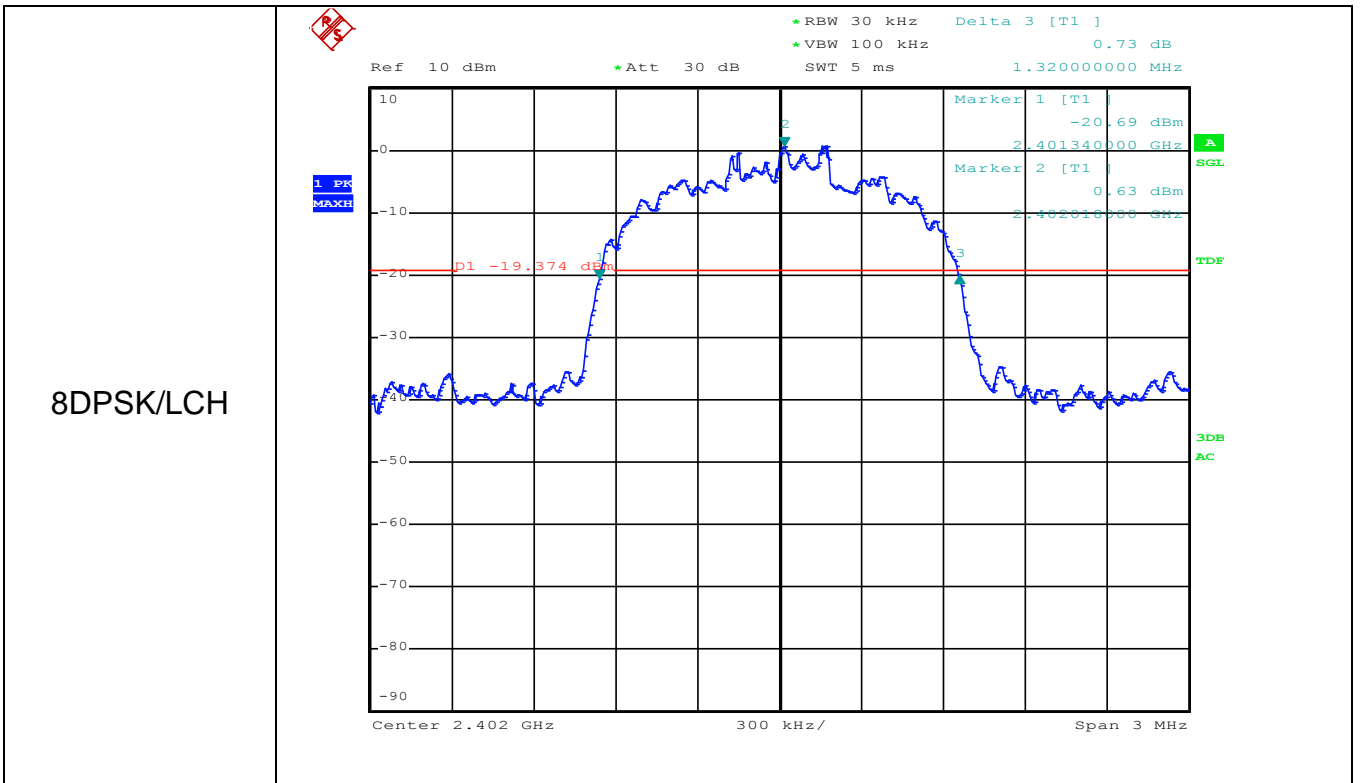
Mode	Channel.	20dB Bandwidth [MHz]	Limit(MHz)	Verdict
GFSK	LCH	0.972MHz	Not Specified	PASS
GFSK	MCH	0.972MHz	Not Specified	PASS
GFSK	HCH	1.044MHz	Not Specified	PASS
$\pi/4$ DQPSK	LCH	1.302MHz	Not Specified	PASS
$\pi/4$ DQPSK	MCH	1.296MHz	Not Specified	PASS
$\pi/4$ DQPSK	HCH	1.332MHz	Not Specified	PASS
8DPSK	LCH	1.320MHz	Not Specified	PASS
8DPSK	MCH	1.296MHz	Not Specified	PASS
8DPSK	HCH	1.302MHz	Not Specified	PASS

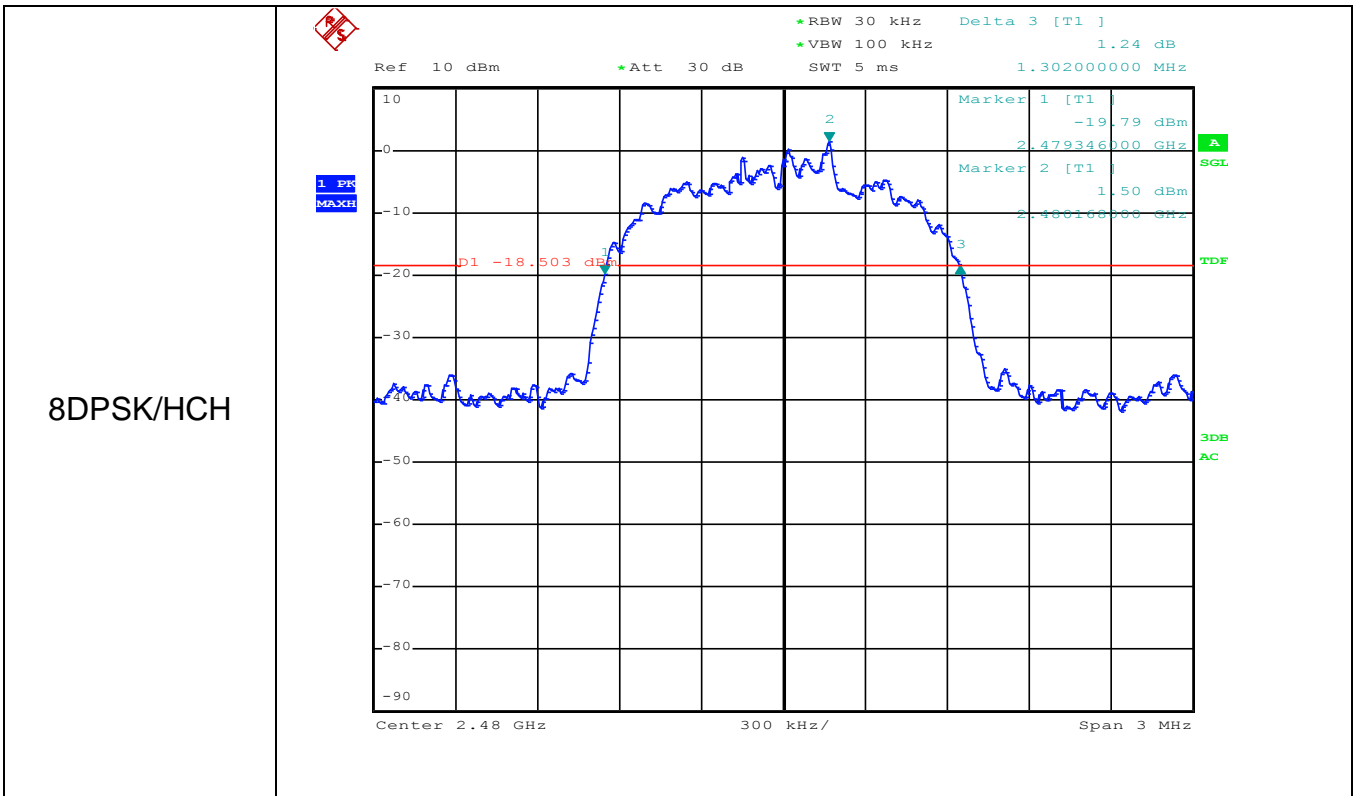
Test Graph







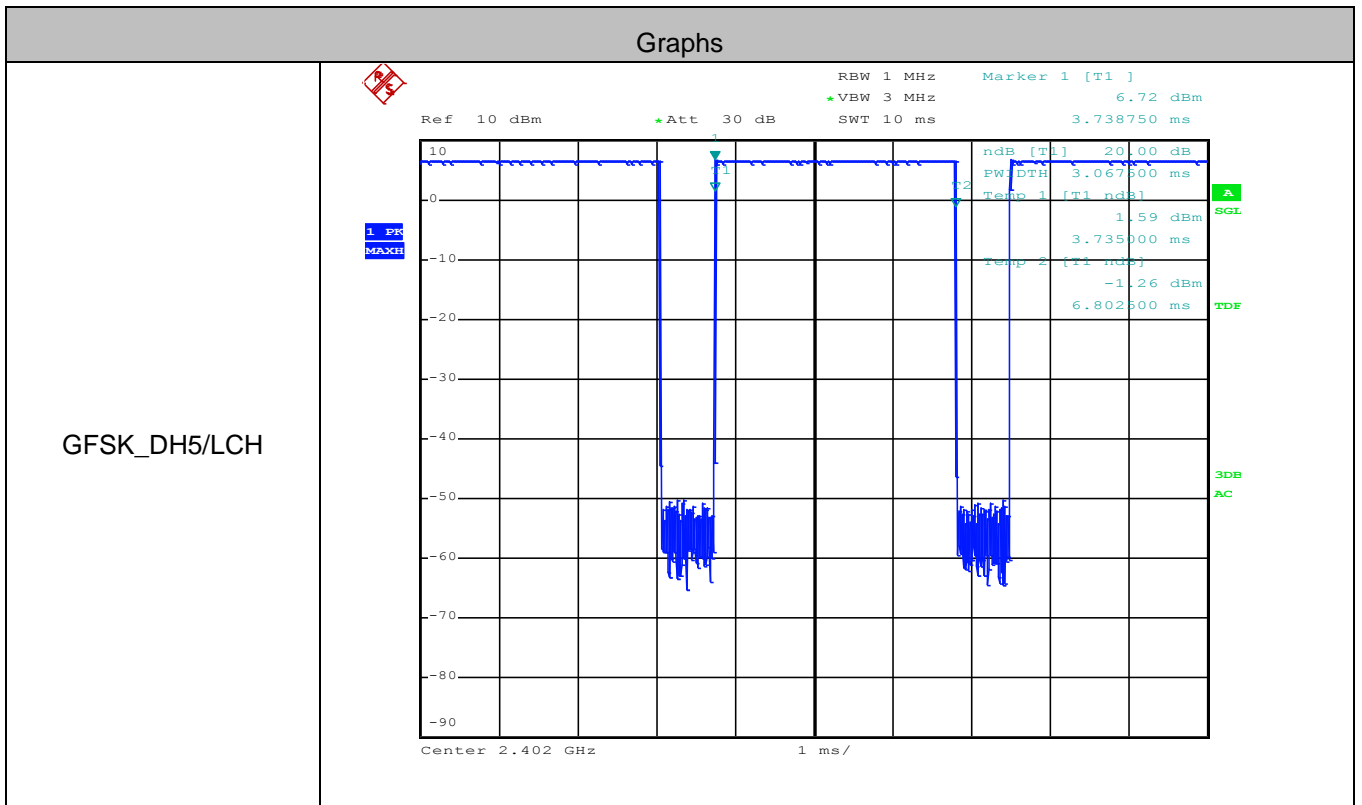


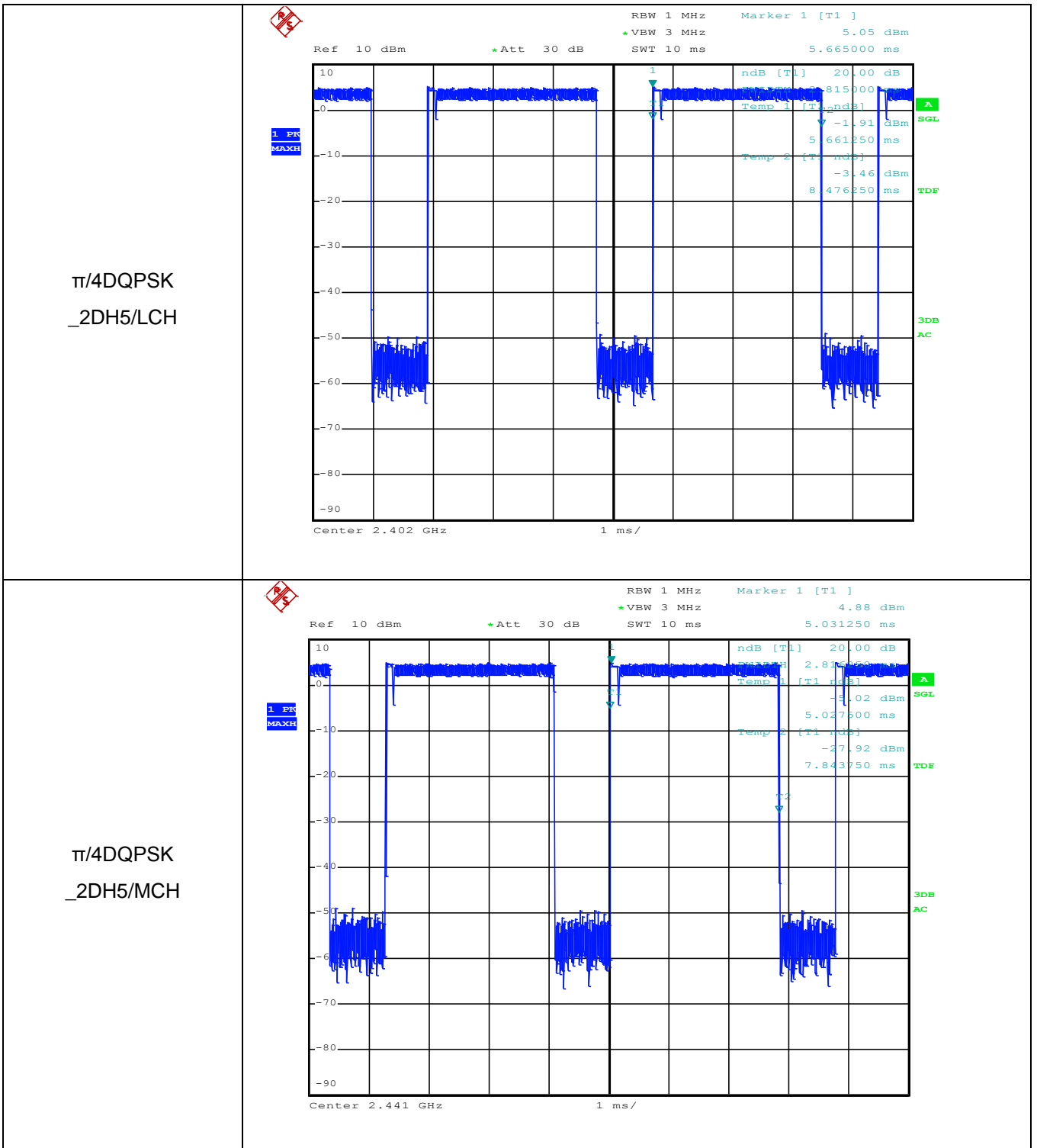


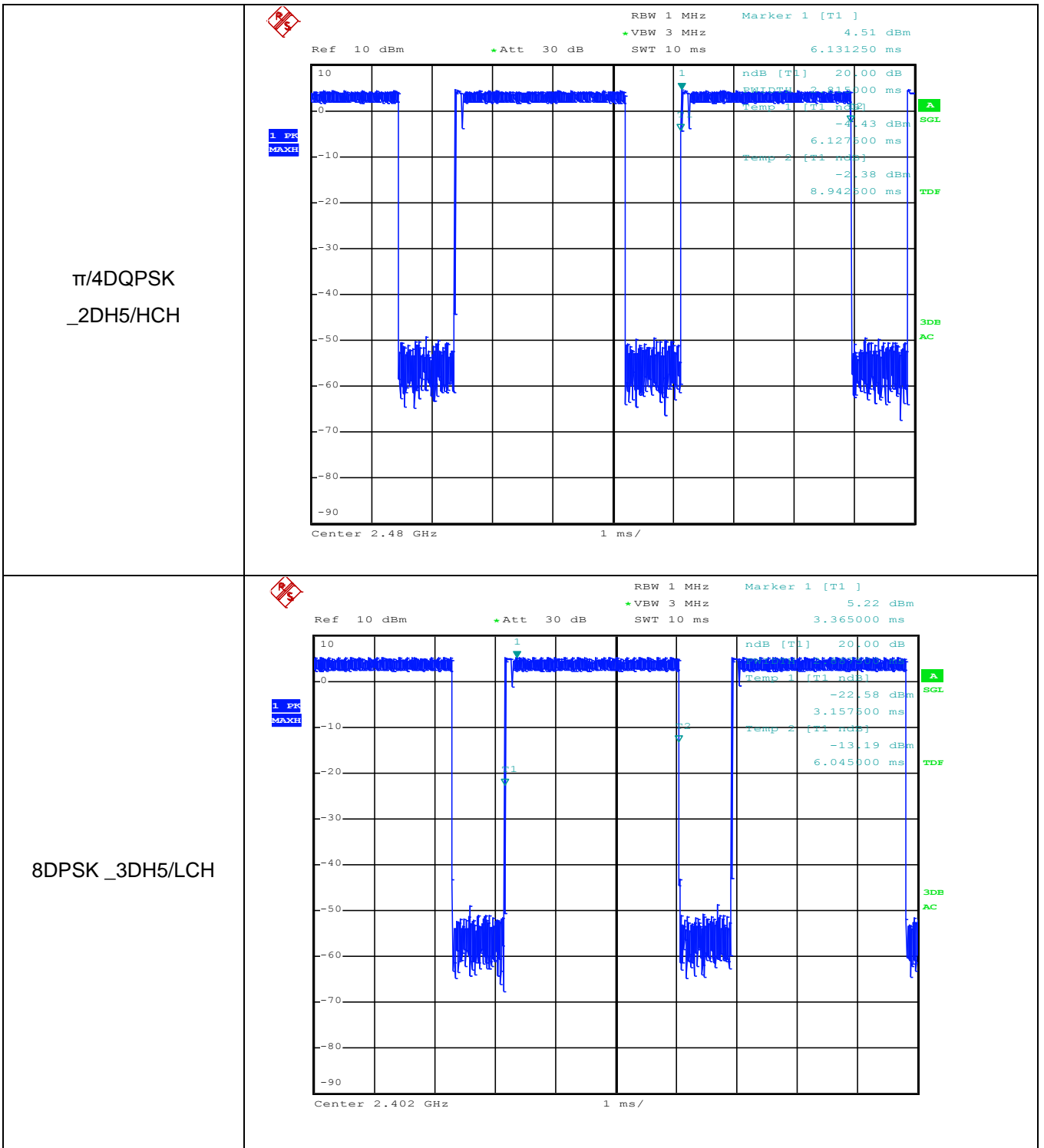
A.2 Dwell Time

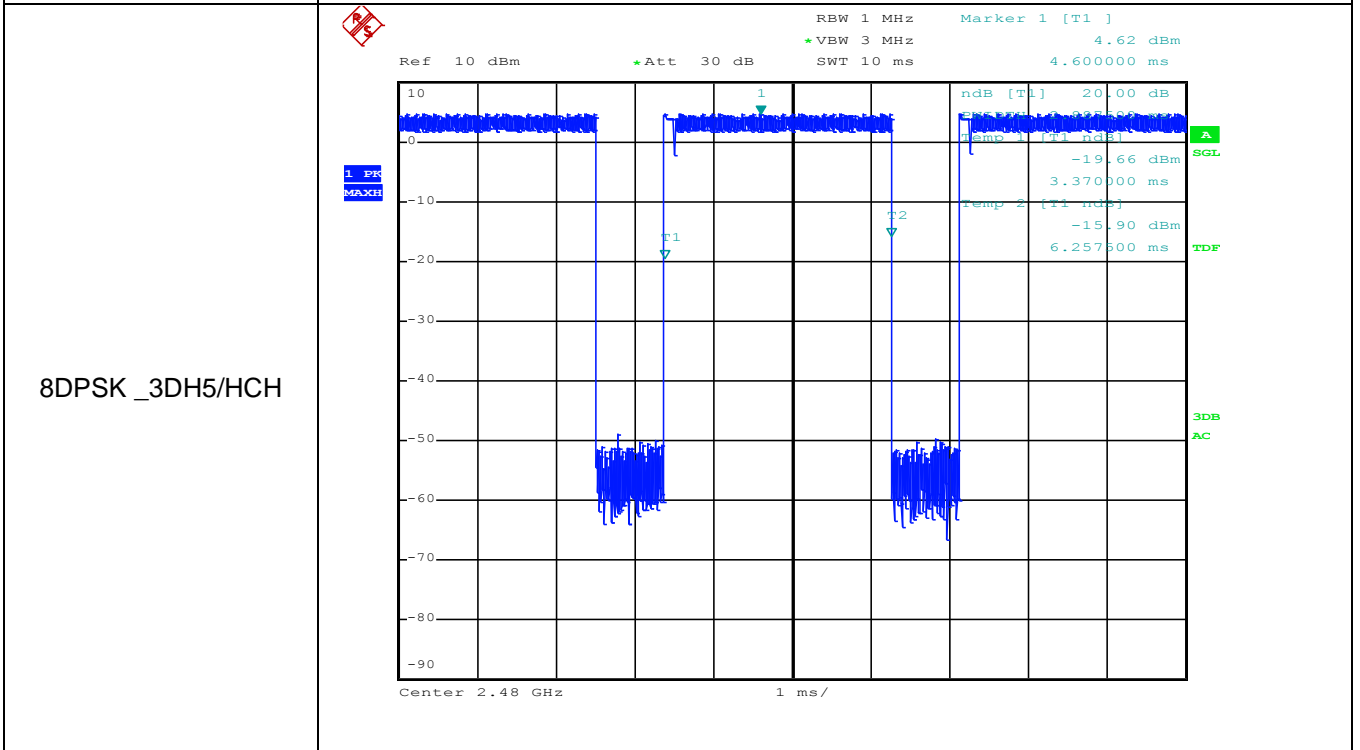
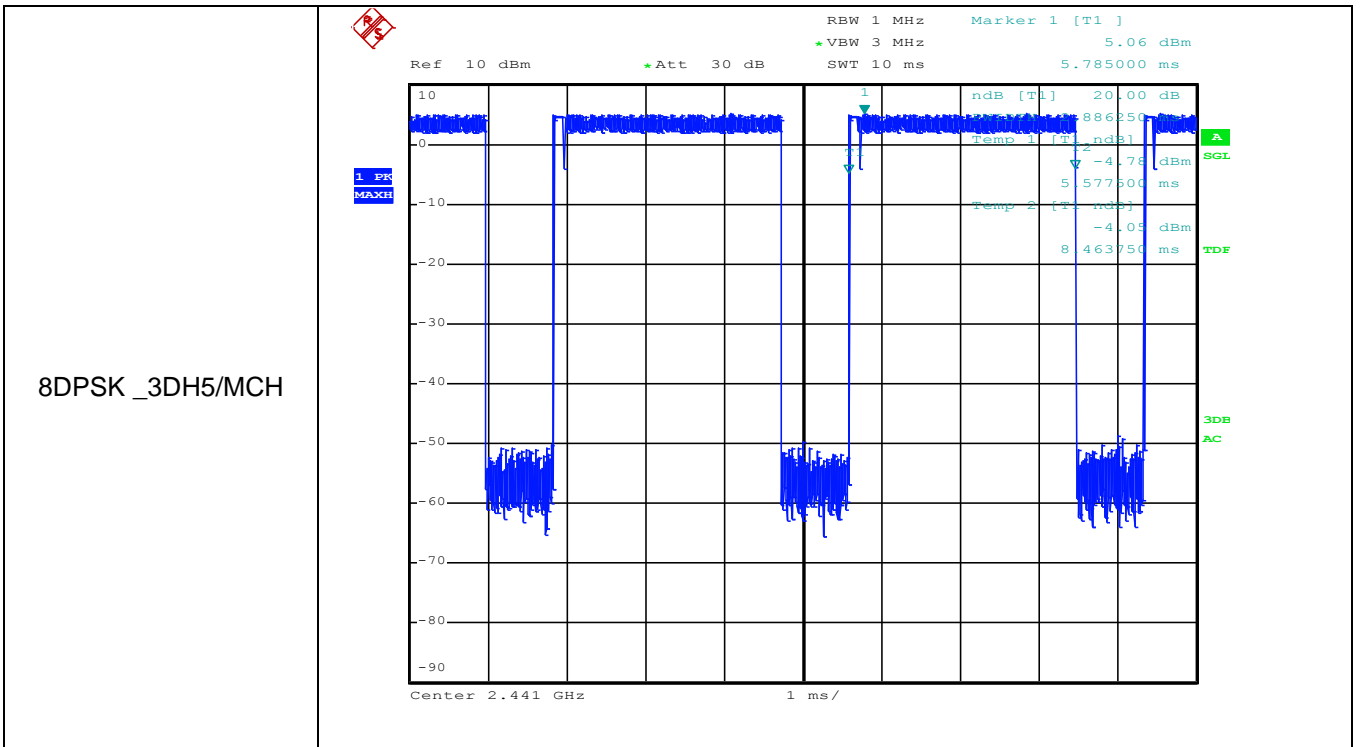
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	3.068	106.7	0.327	0.4	PASS
GFSK	DH5	MCH	3.069	106.7	0.327	0.4	PASS
GFSK	DH5	HCH	3.069	106.7	0.327	0.4	PASS
$\pi/4$ DQPSK	2DH5	LCH	2.815	106.7	0.300	0.4	PASS
$\pi/4$ DQPSK	2DH5	MCH	2.816	106.7	0.300	0.4	PASS
$\pi/4$ DQPSK	2DH5	HCH	2.815	106.7	0.300	0.4	PASS
8DPSK	3DH5	LCH	2.887	106.7	0.308	0.4	PASS
8DPSK	3DH5	MCH	2.886	106.7	0.308	0.4	PASS
8DPSK	3DH5	HCH	2.887	106.7	0.308	0.4	PASS

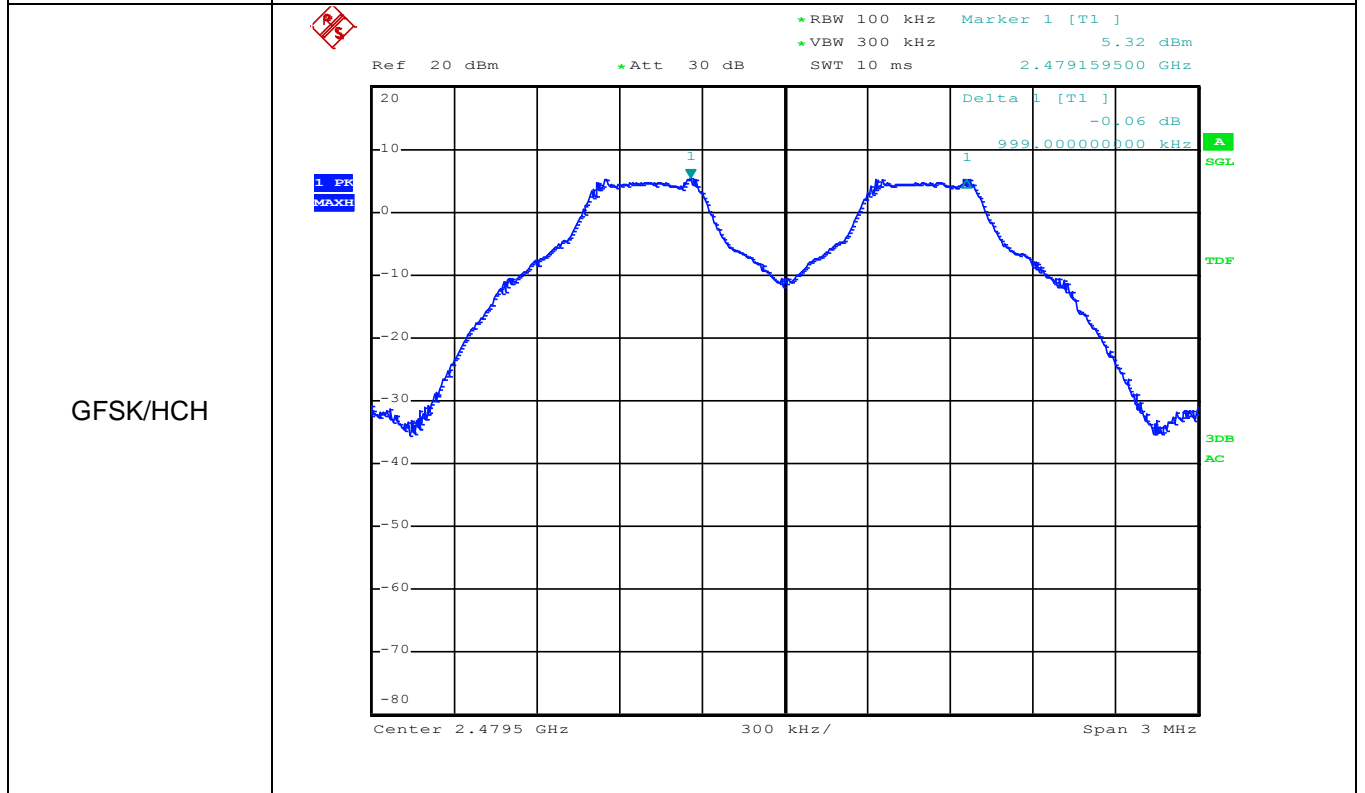
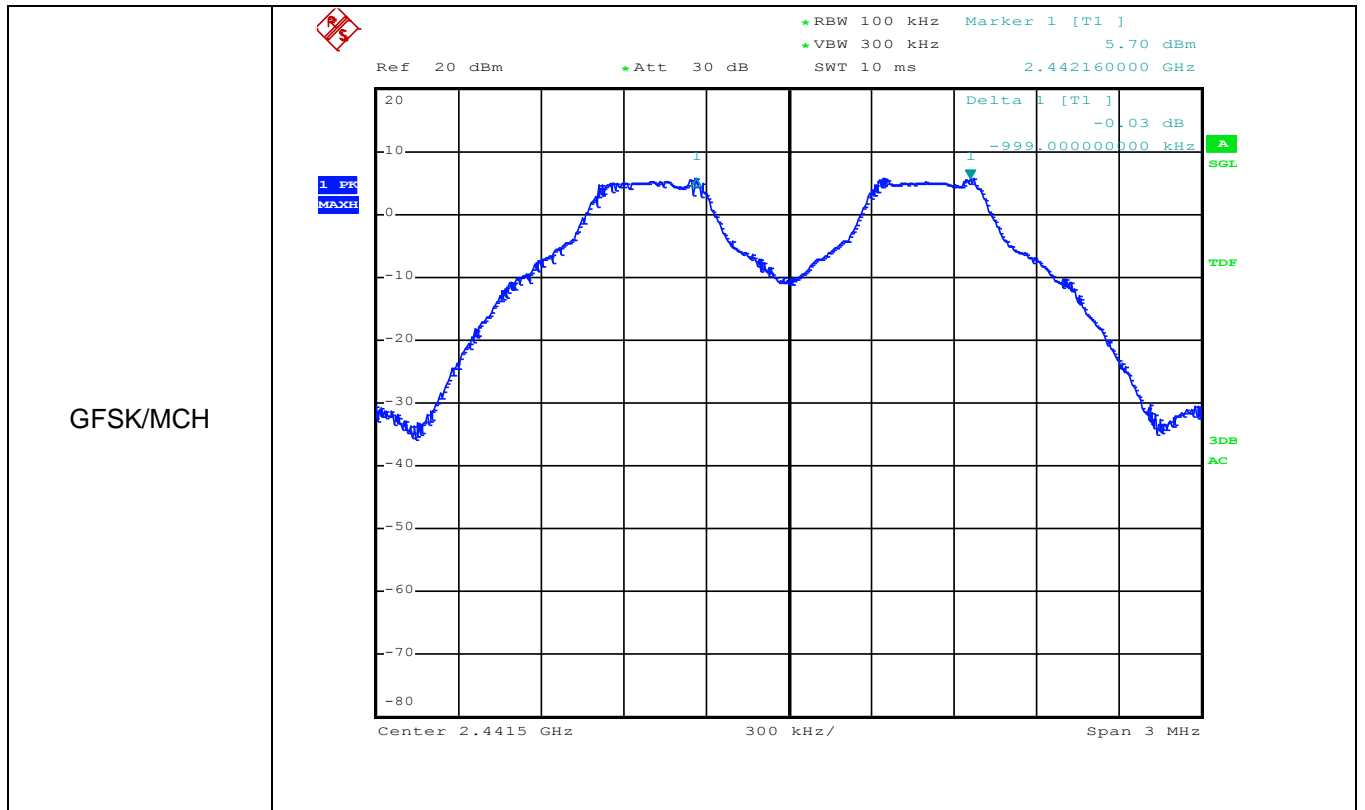
Test Graph

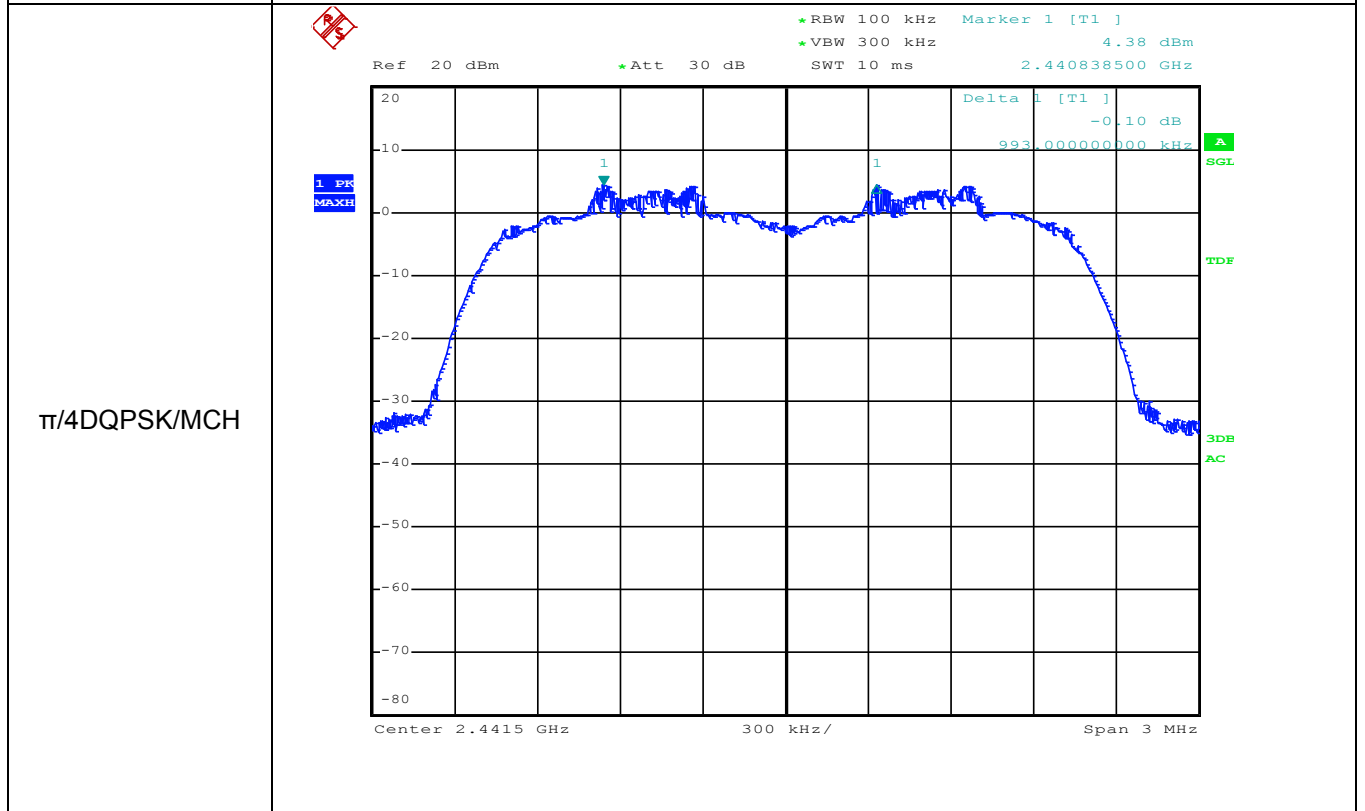
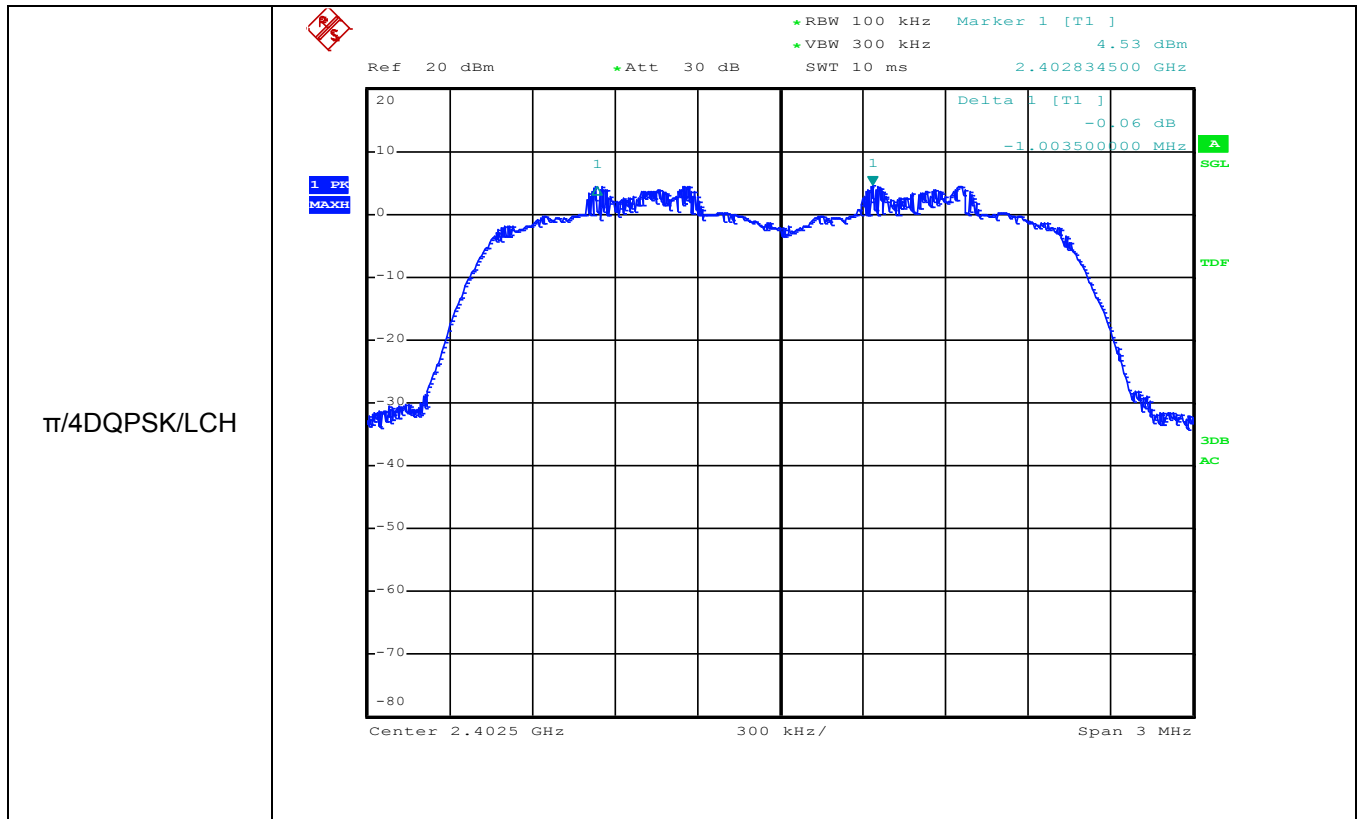


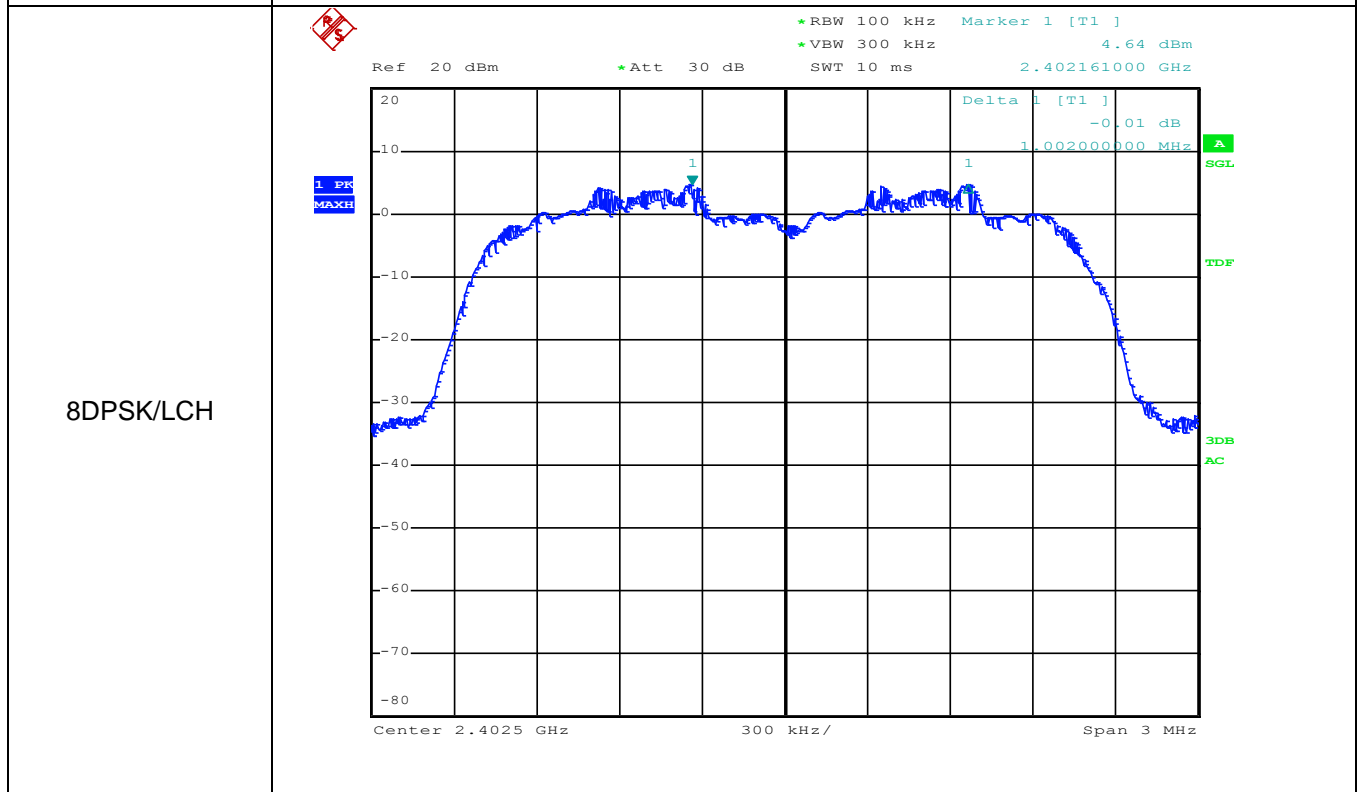
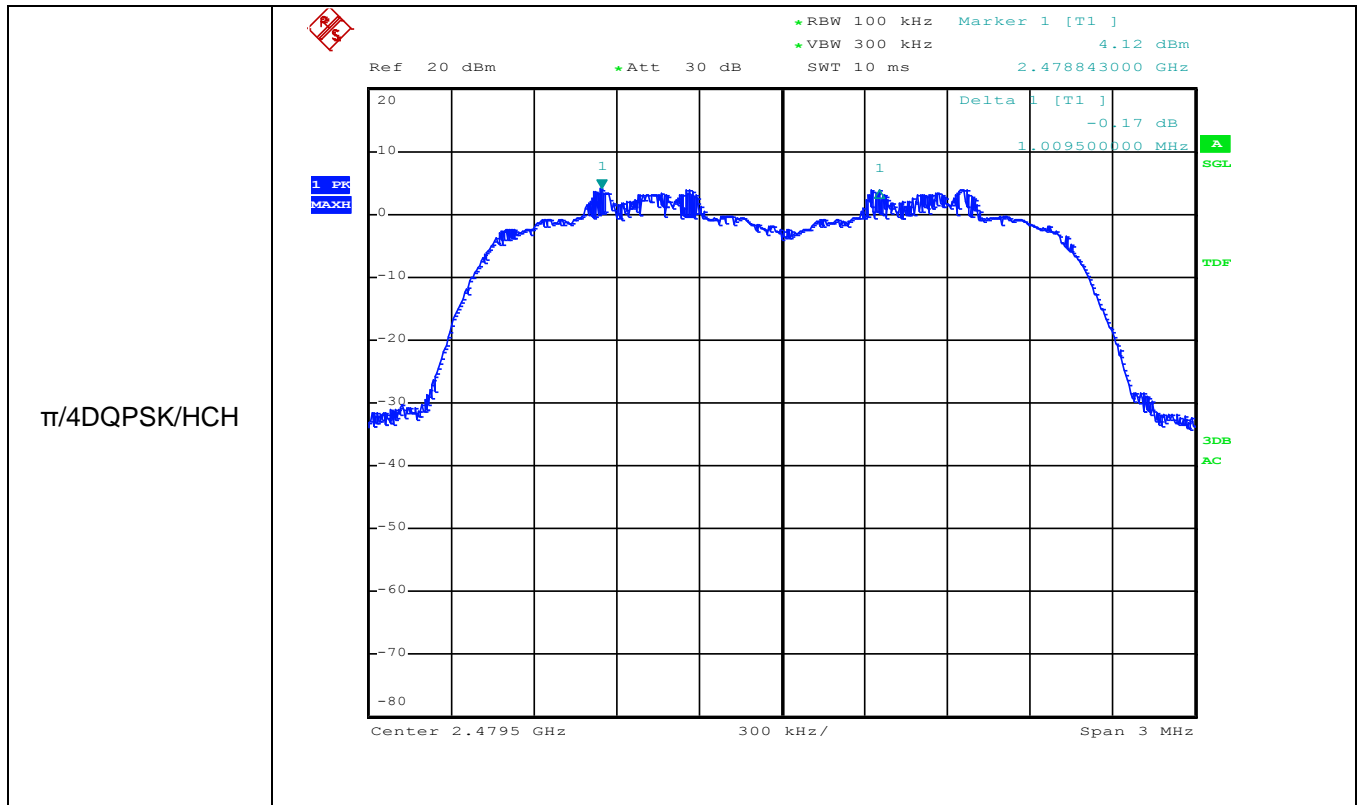


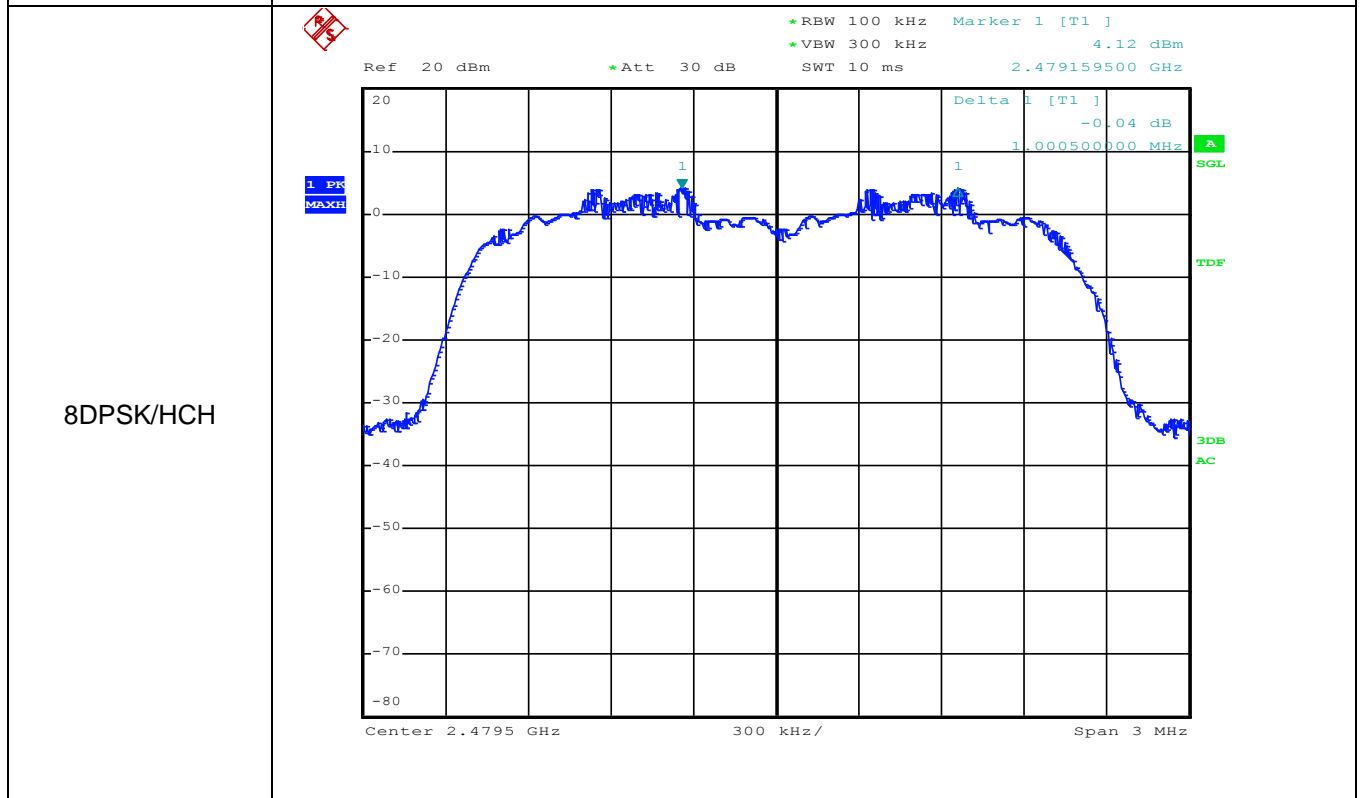
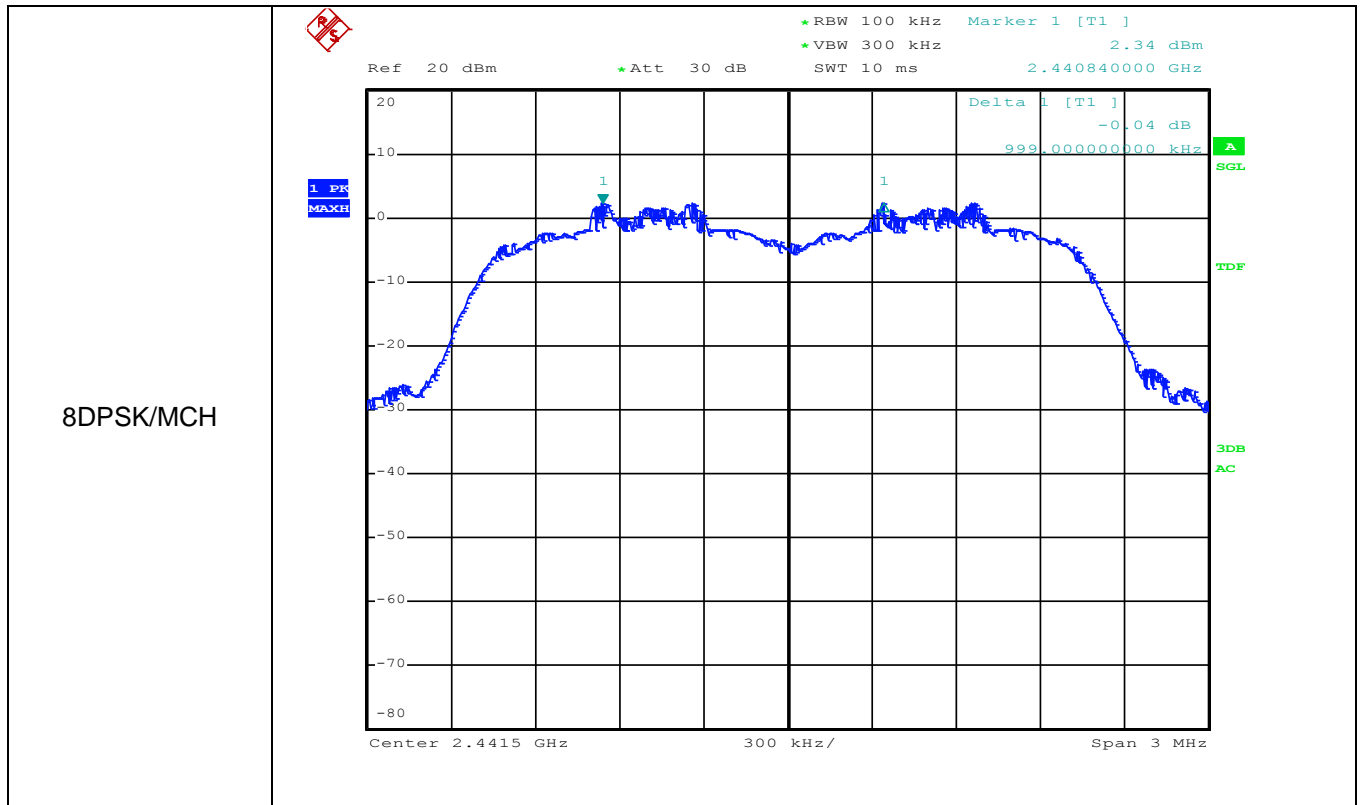








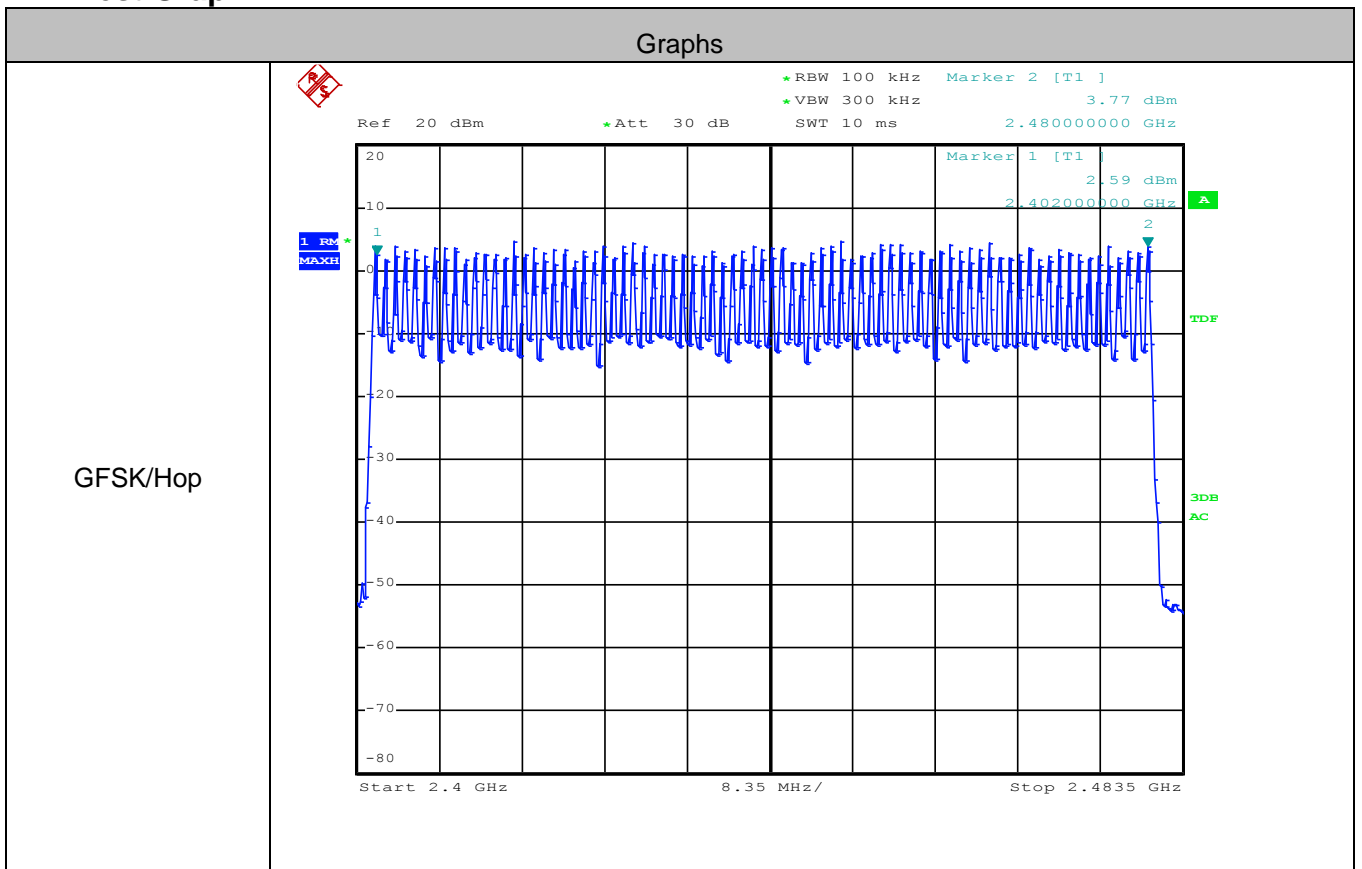


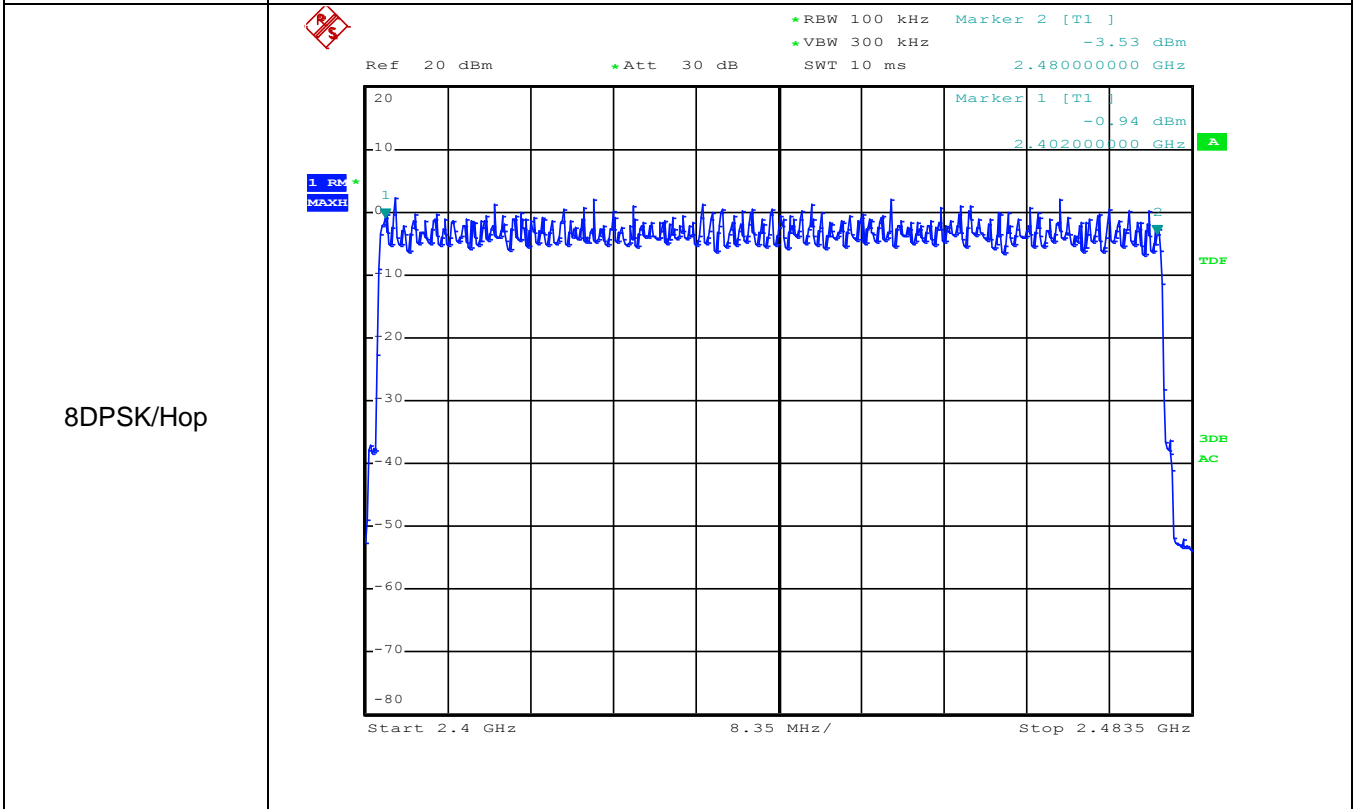
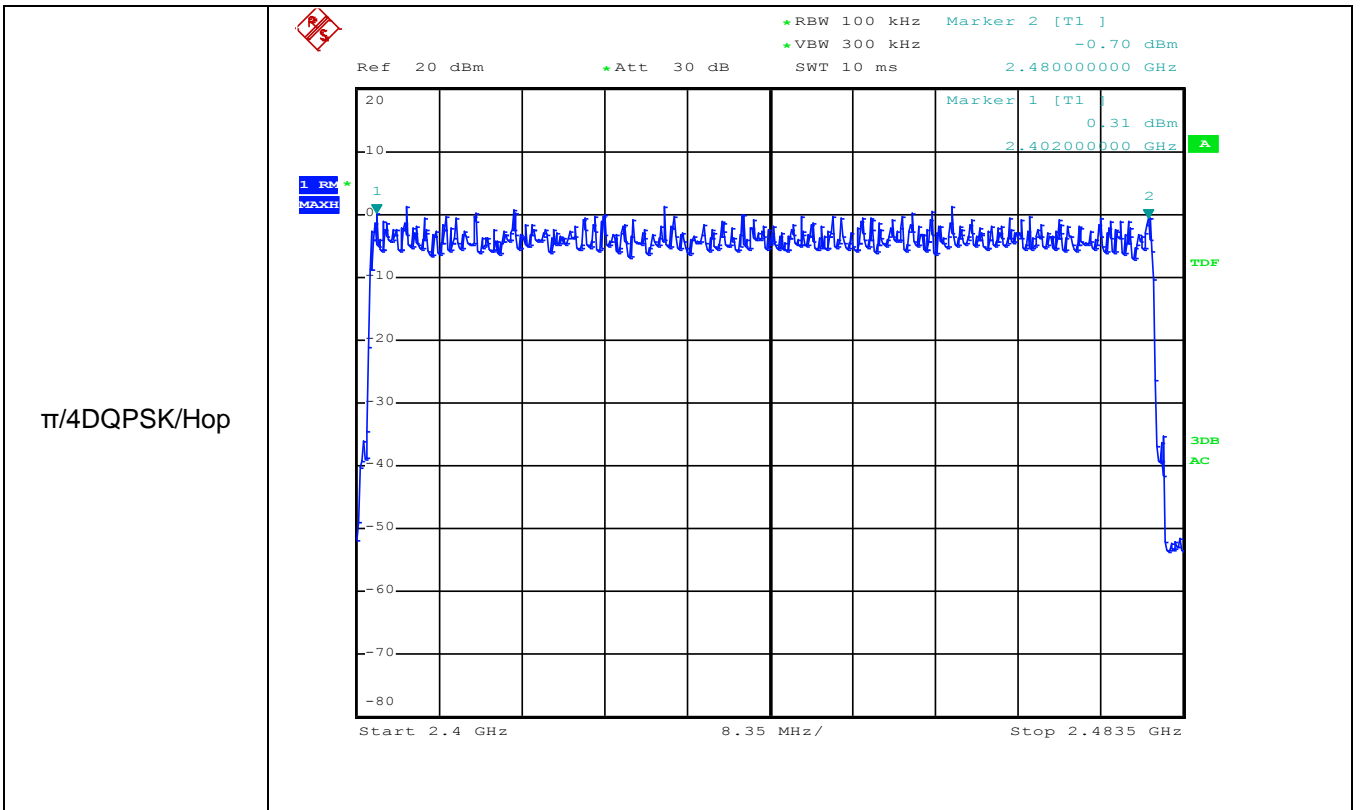


A.4 Hopping Channel Number

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

Test Graph

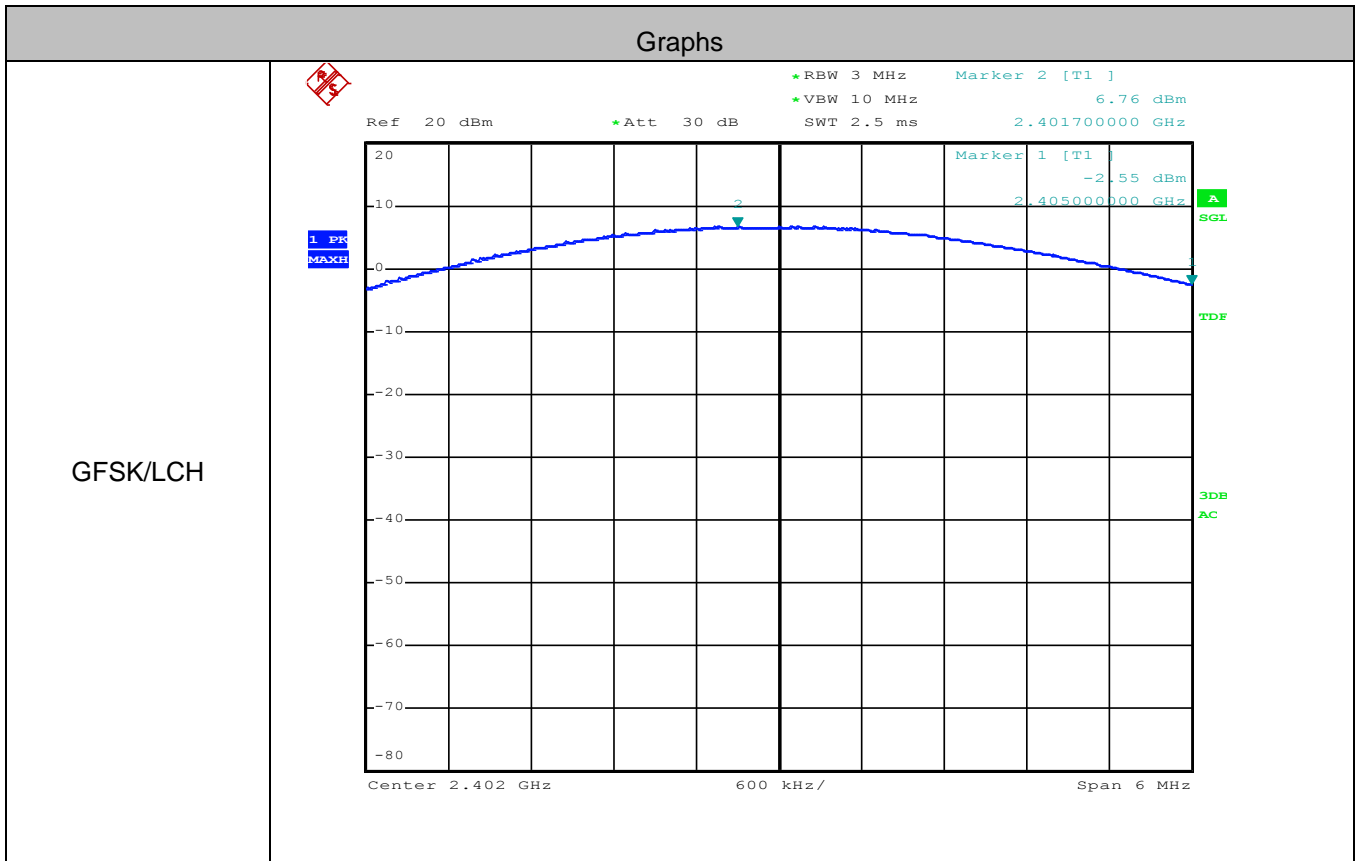


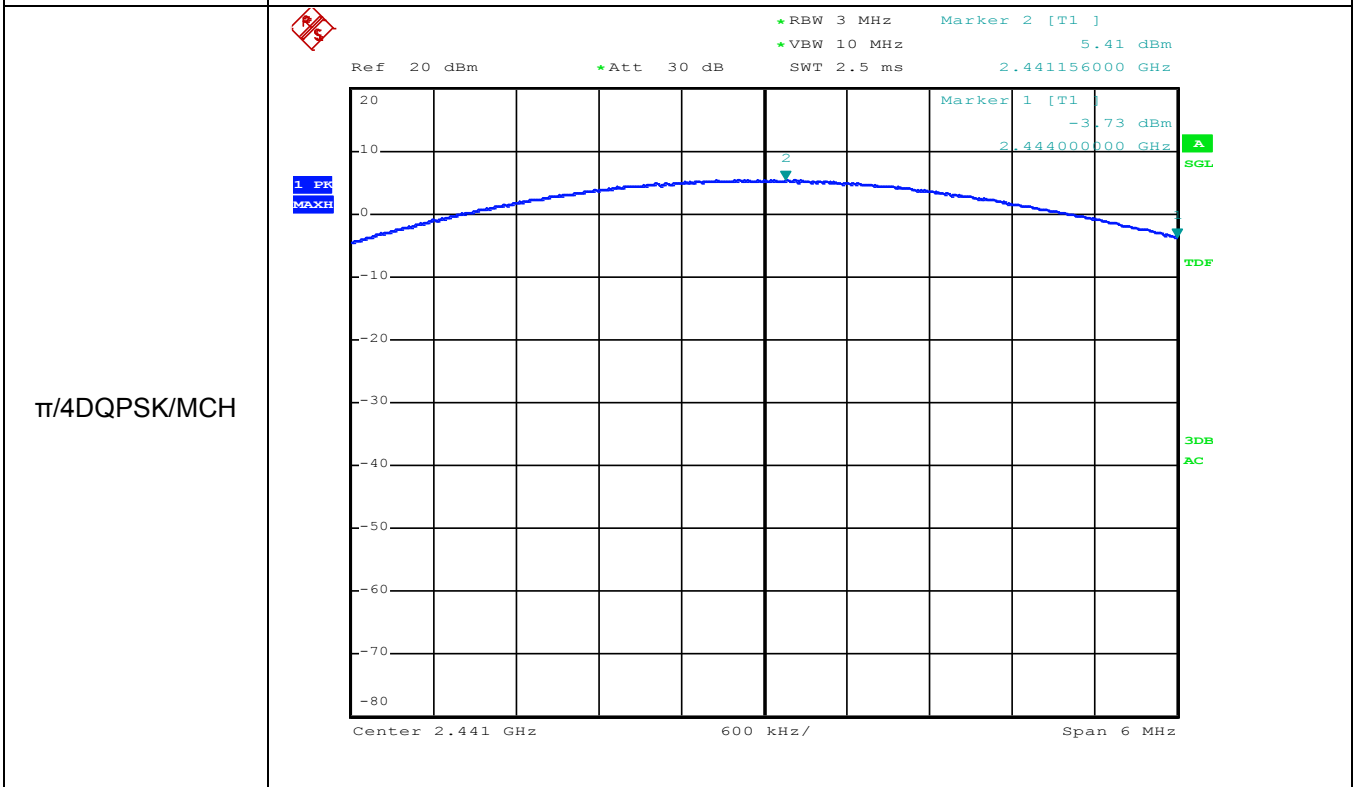
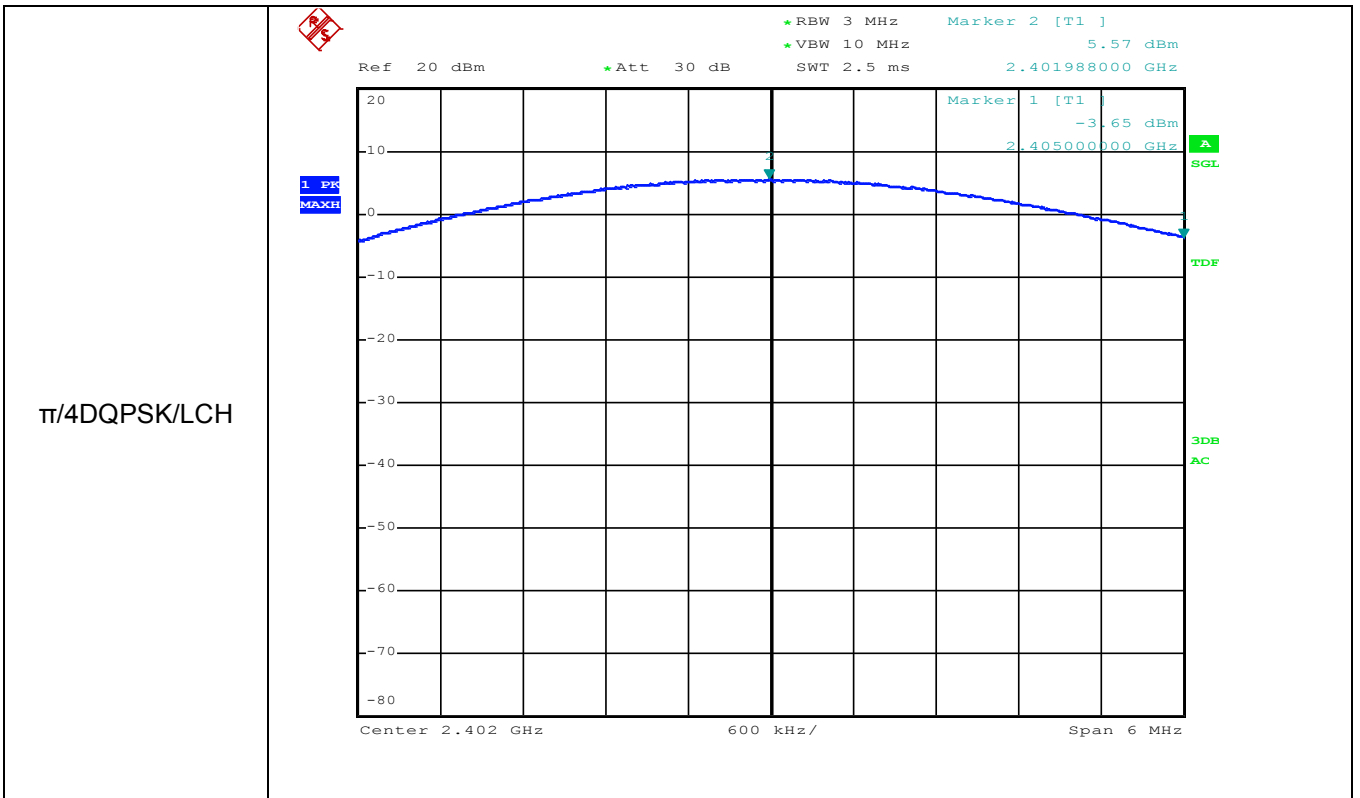


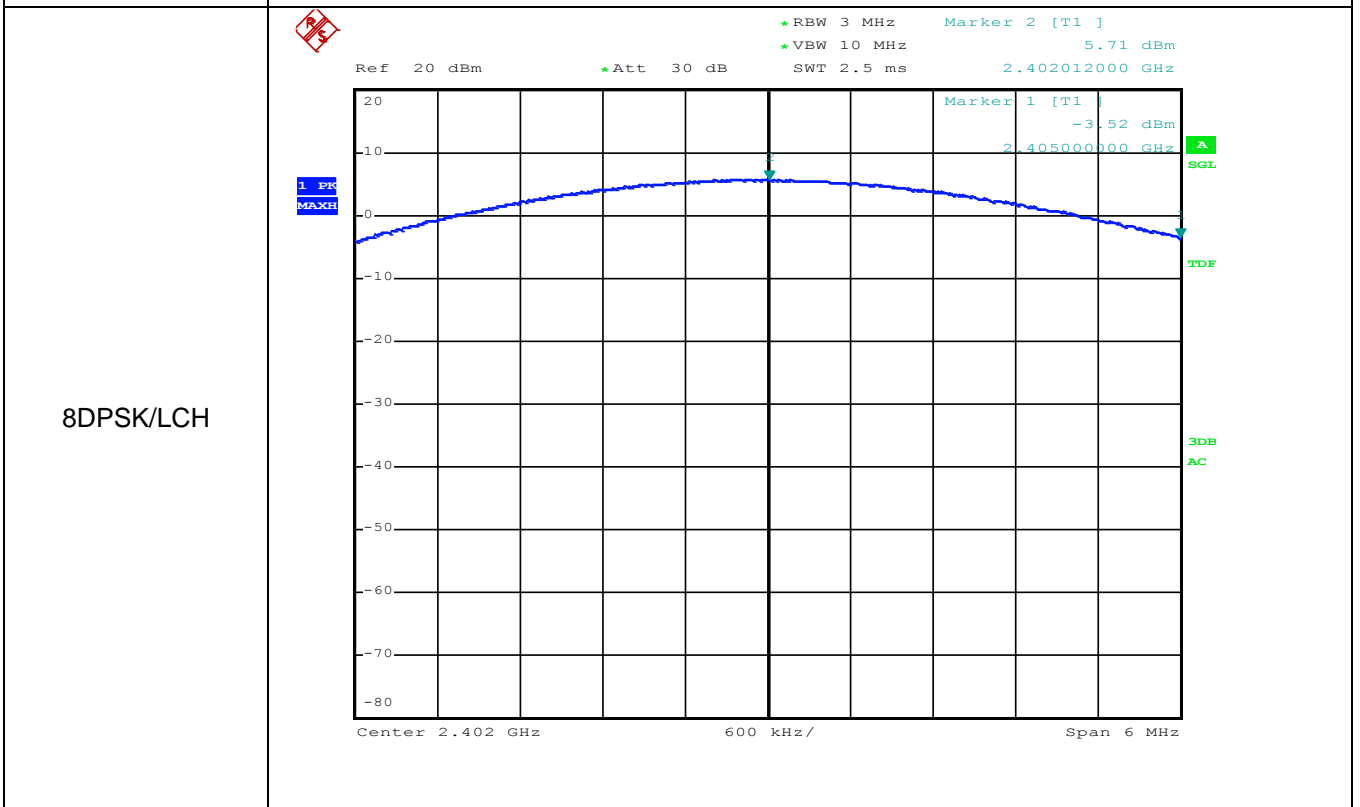
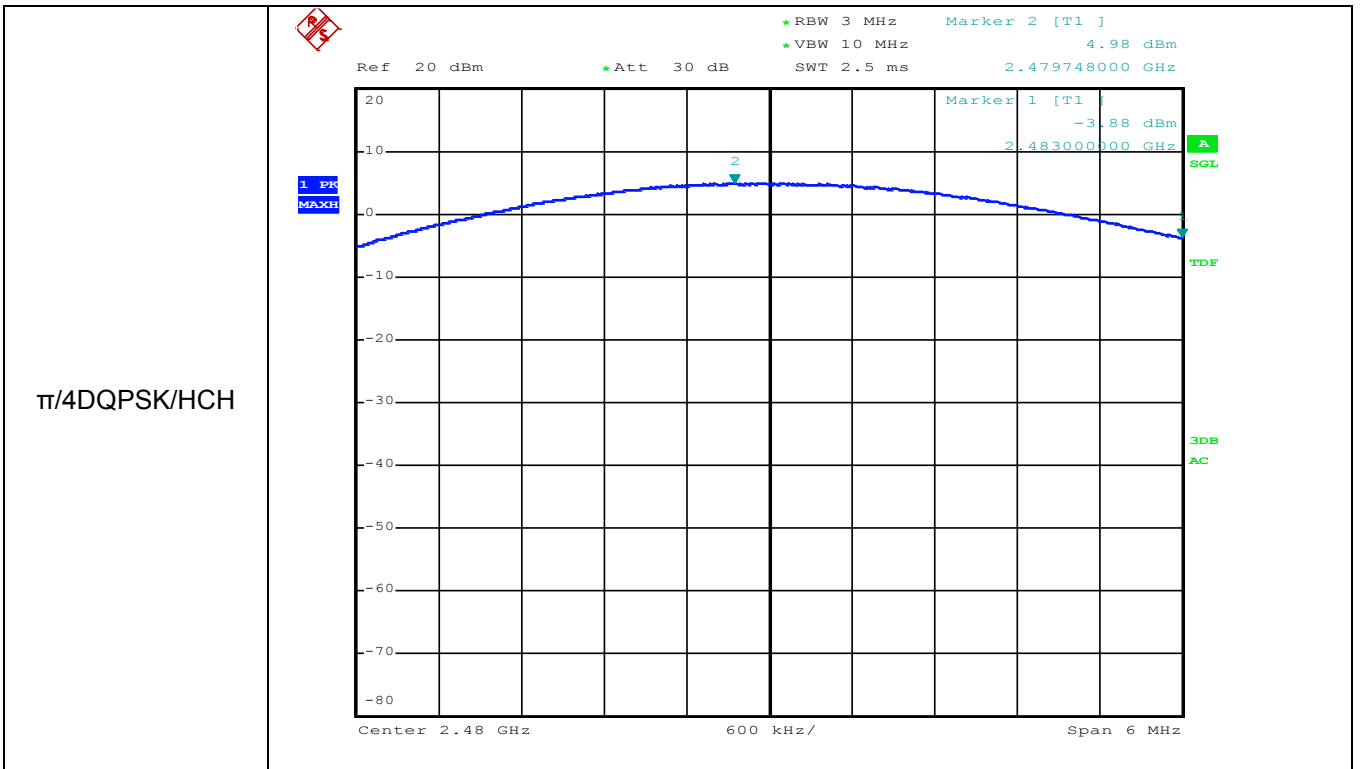
A.5 Conducted Peak Output Power

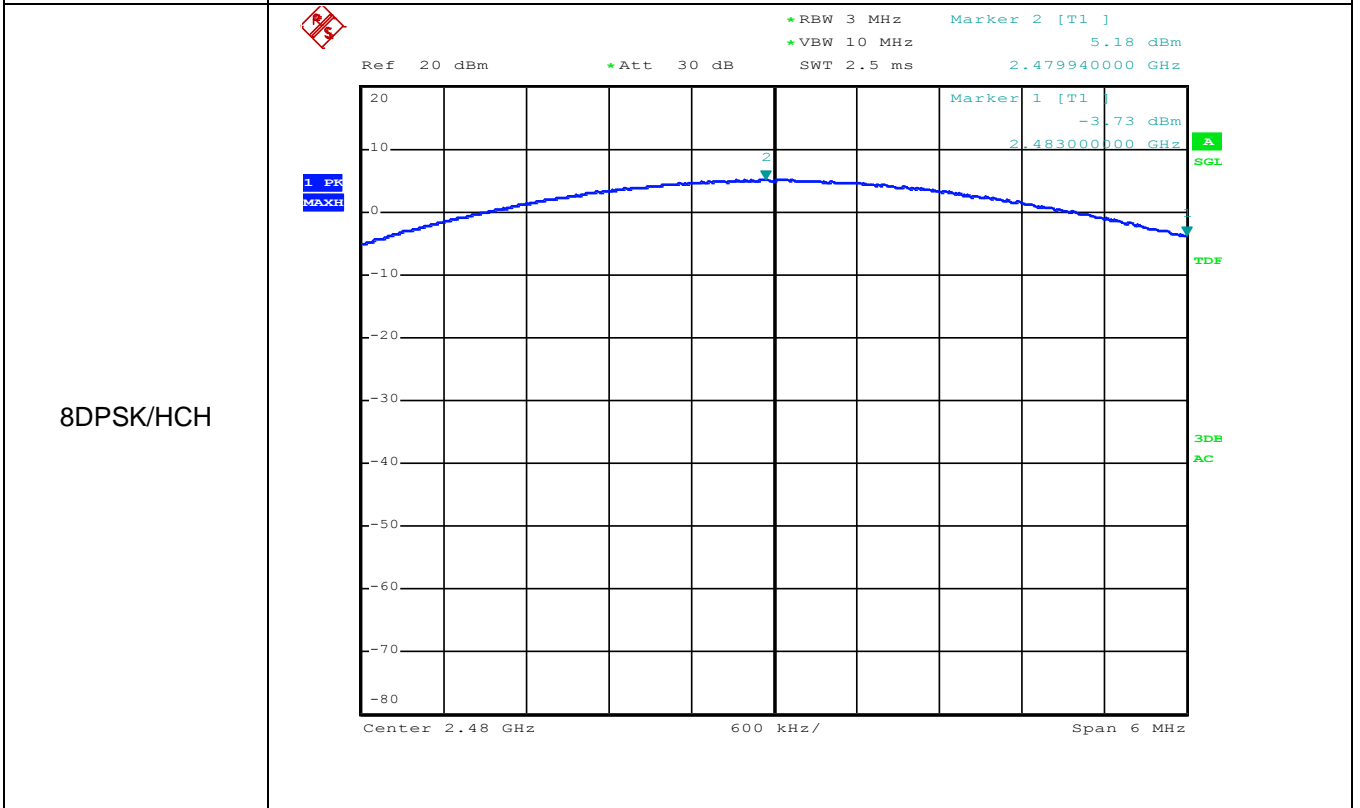
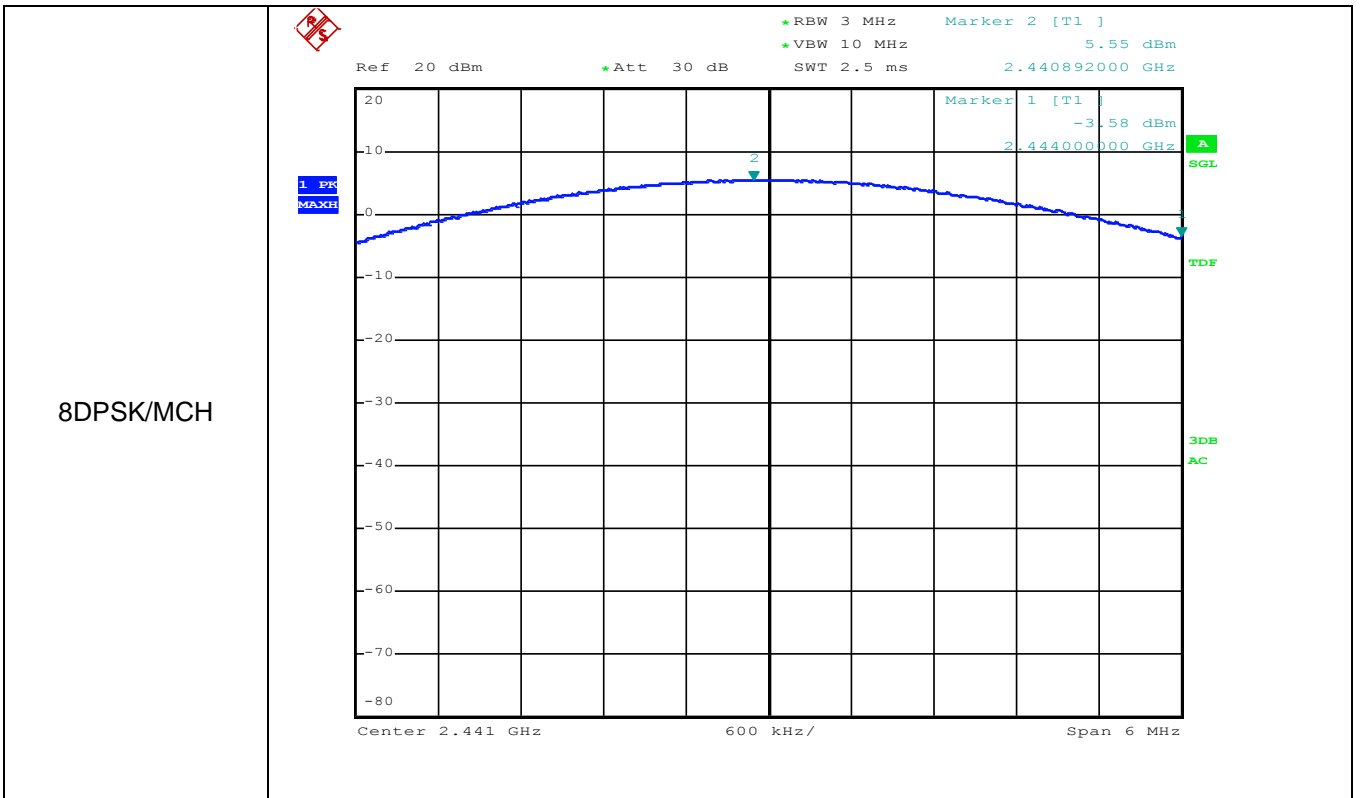
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2.88	21	PASS
GFSK	MCH	3.17	21	PASS
GFSK	HCH	3.06	21	PASS
$\pi/4$ DQPSK	LCH	2.28	21	PASS
$\pi/4$ DQPSK	MCH	2.57	21	PASS
$\pi/4$ DQPSK	HCH	2.76	21	PASS
8DPSK	LCH	2.47	21	PASS
8DPSK	MCH	2.89	21	PASS
8DPSK	HCH	2.76	21	PASS

Test Graph





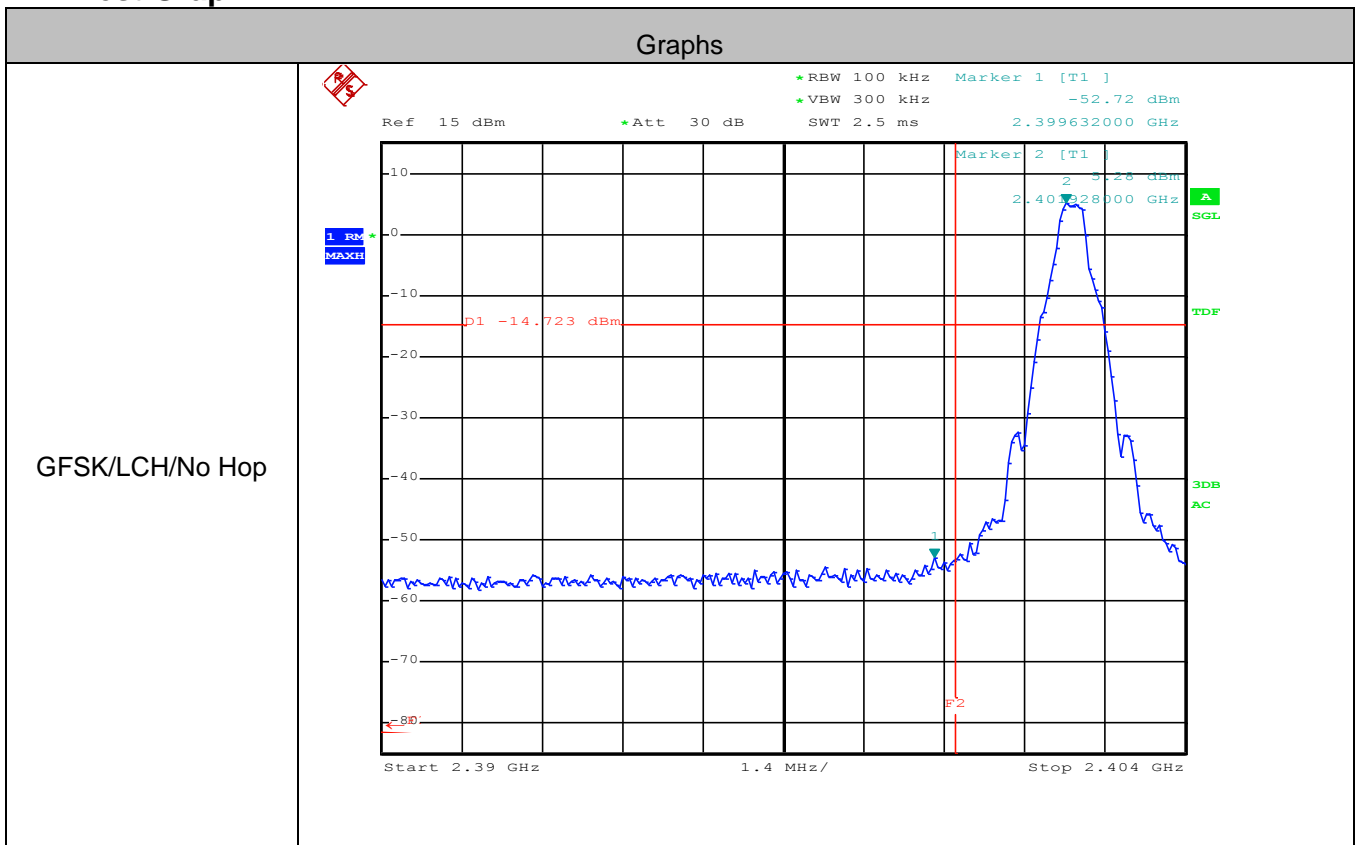


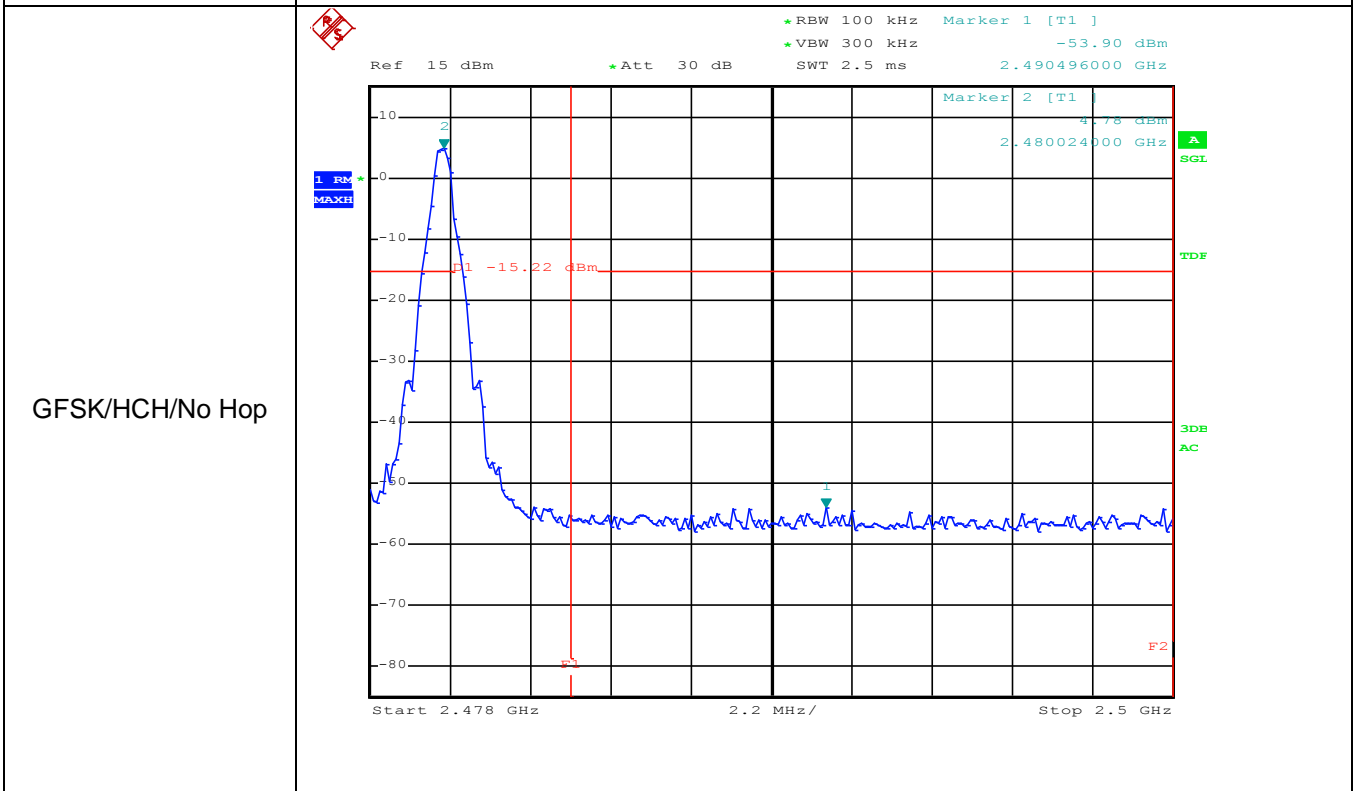
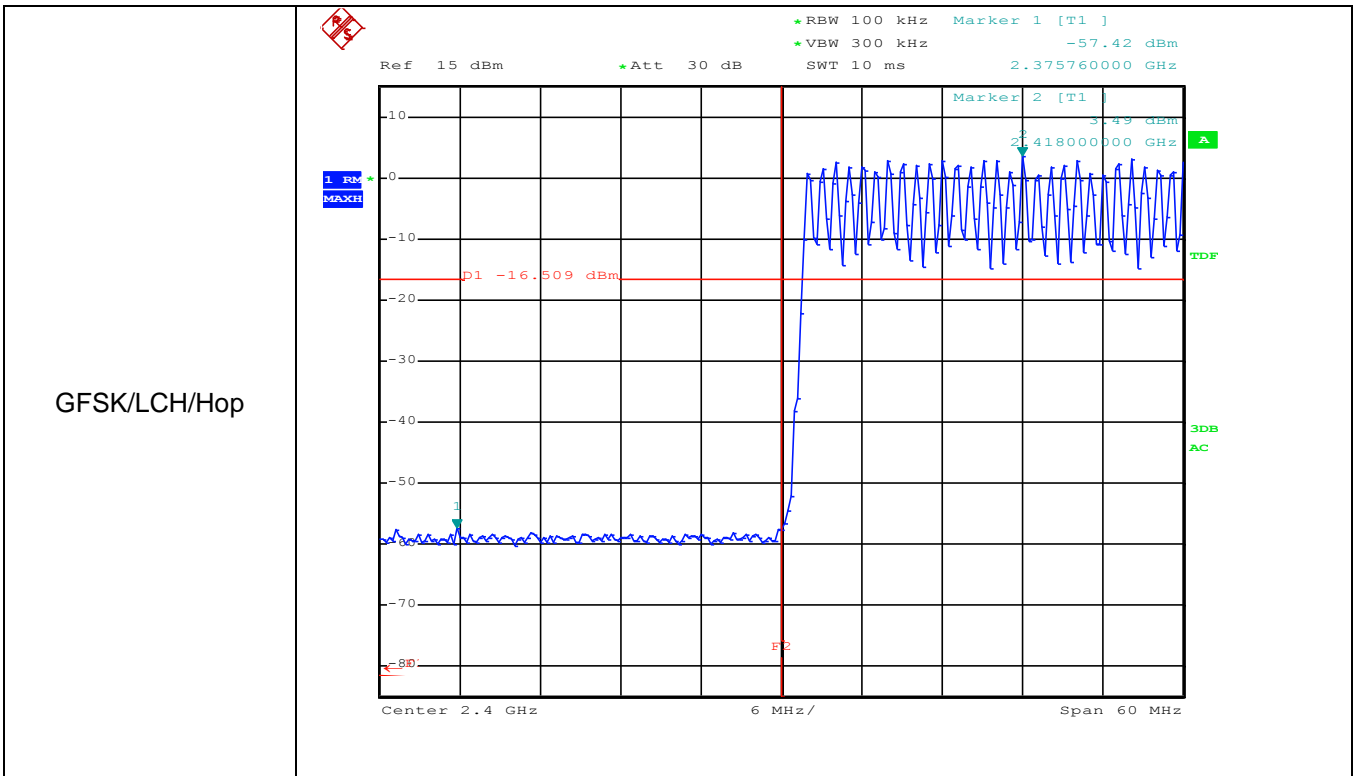


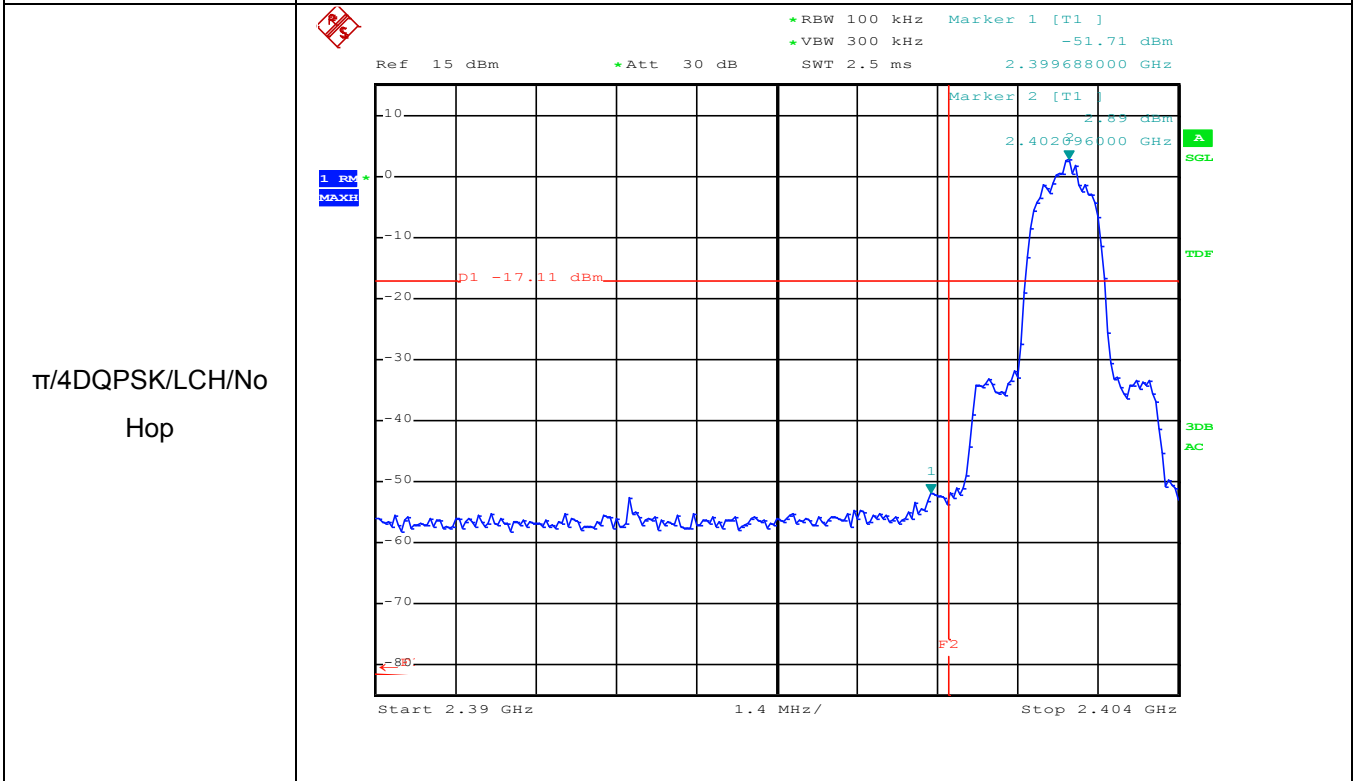
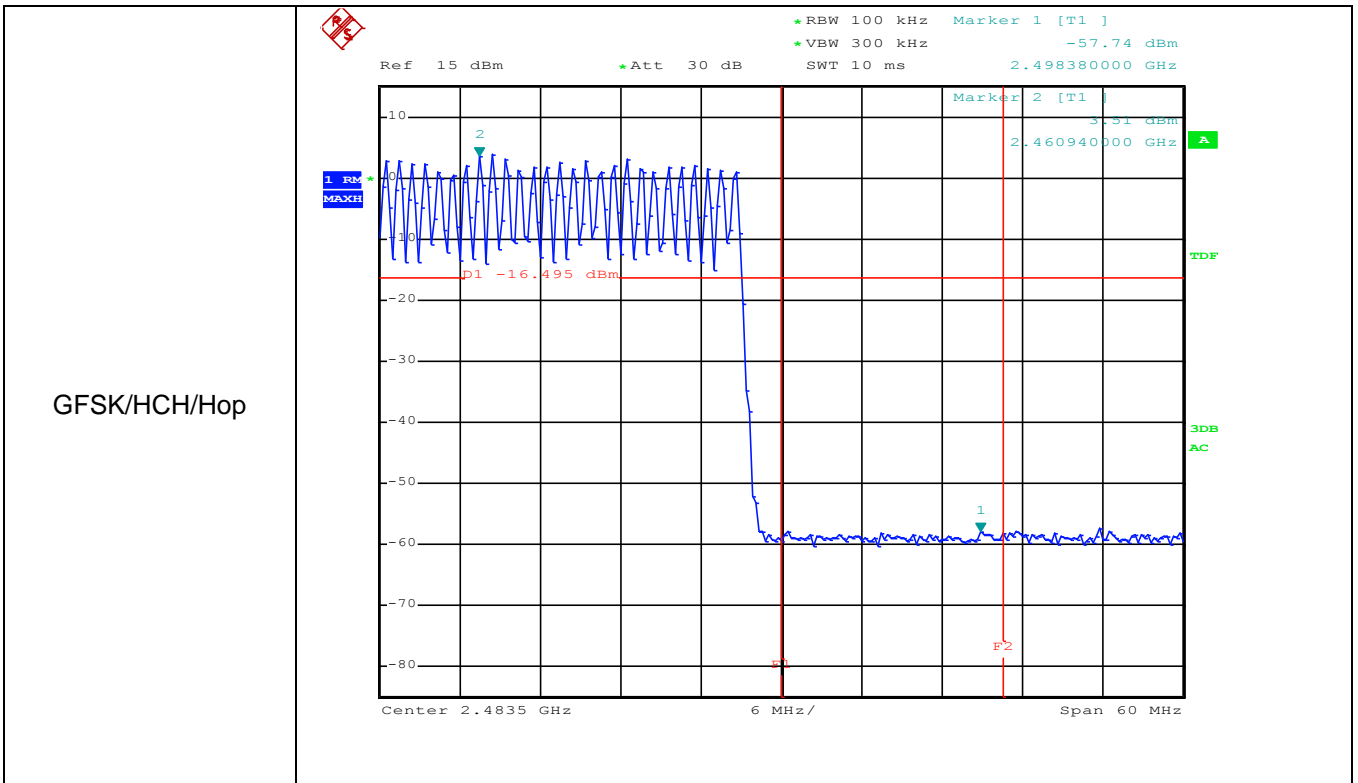
A.6 Band-edge for RF Conducted Emissions

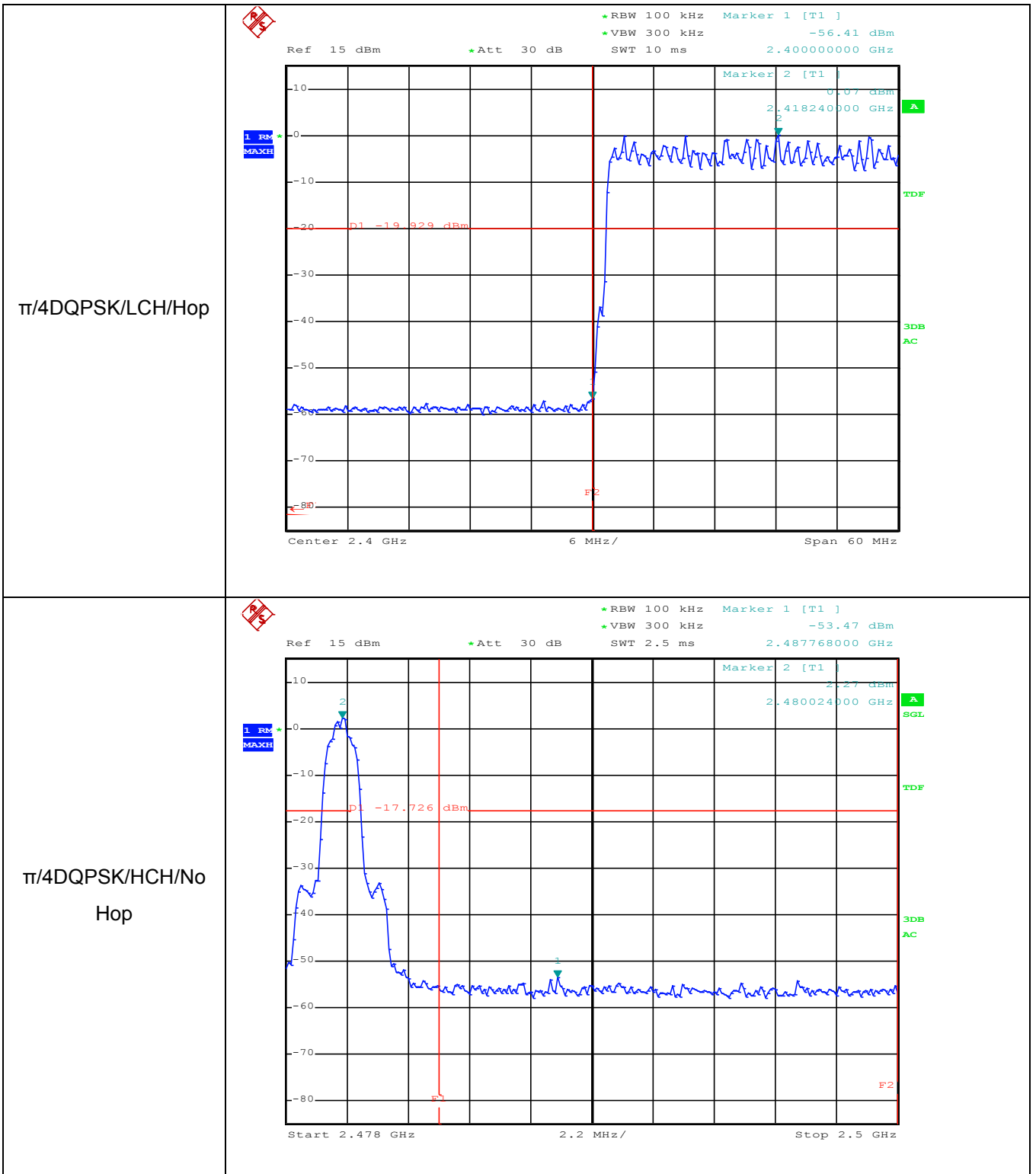
Mode	Channel	Carrier Frequency [MHz]	Frequency Hopping	Carrier Frequency Power [dBm]	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	Off	5.28	-52.72	-14.72	PASS
			On	3.49	-57.42	-16.51	PASS
GFSK	HCH	2480	Off	4.78	-53.90	-15.22	PASS
			On	3.51	-57.74	-16.50	PASS
$\pi/4$ DQPS K	LCH	2402	Off	2.89	-51.71	-17.11	PASS
			On	0.07	-56.41	-19.93	PASS
$\pi/4$ DQPS K	HCH	2480	Off	2.27	-53.47	-17.73	PASS
			On	-0.02	-57.18	-20.02	PASS
8DPSK	LCH	2402	Off	3.71	-51.96	-16.30	PASS
			On	1.78	-55.82	-18.22	PASS
8DPSK	HCH	2480	Off	1.28	-53.57	-18.72	PASS
			On	1.36	-57.12	-18.64	PASS

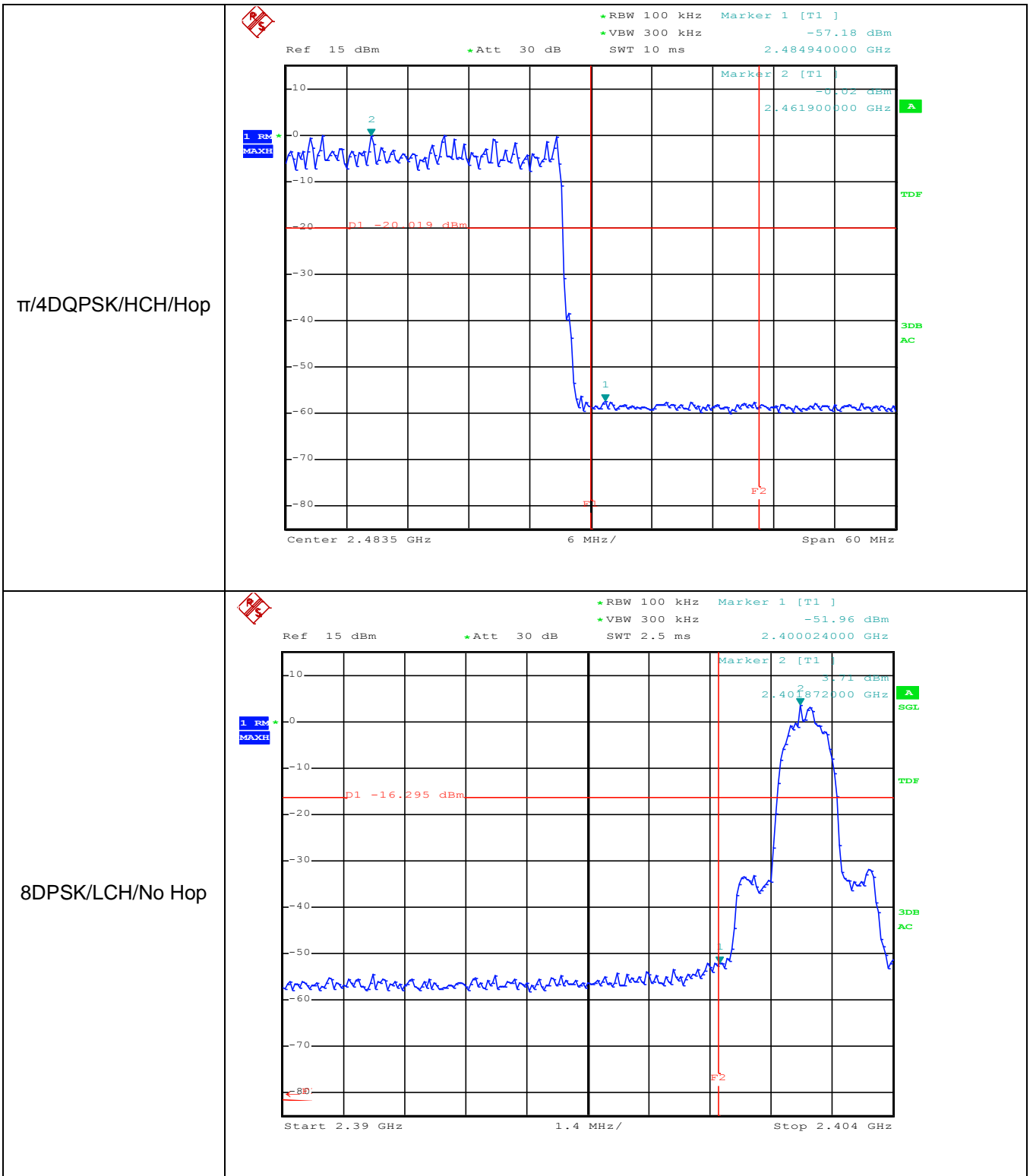
Test Graph

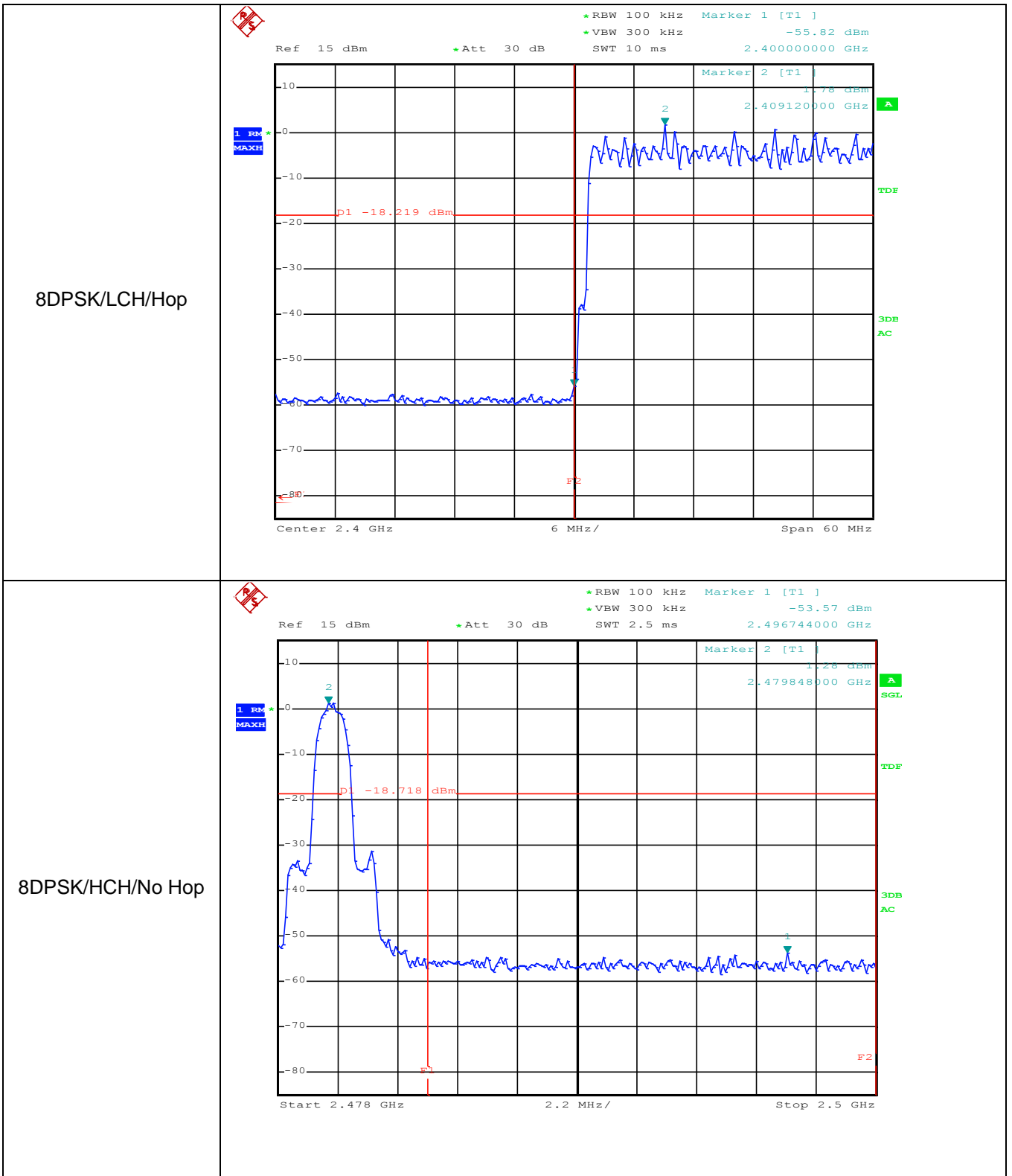


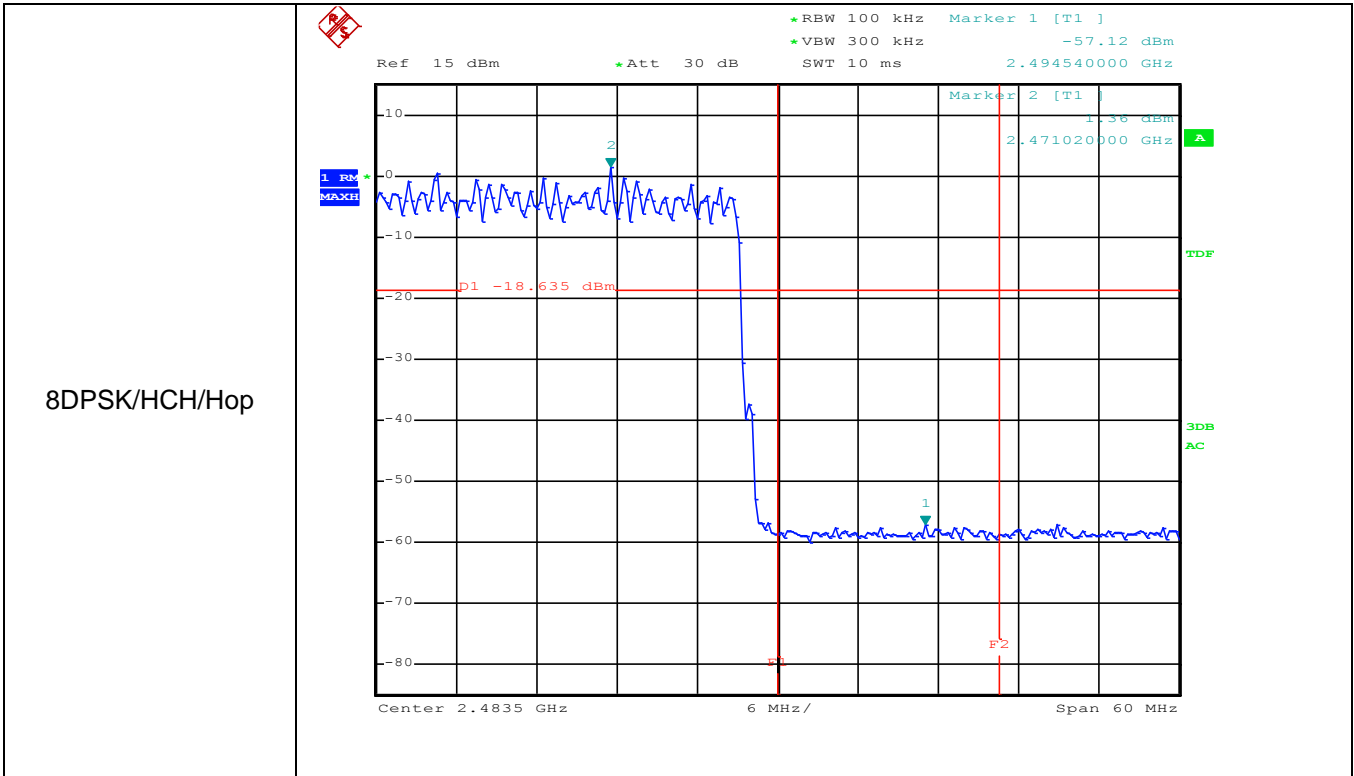




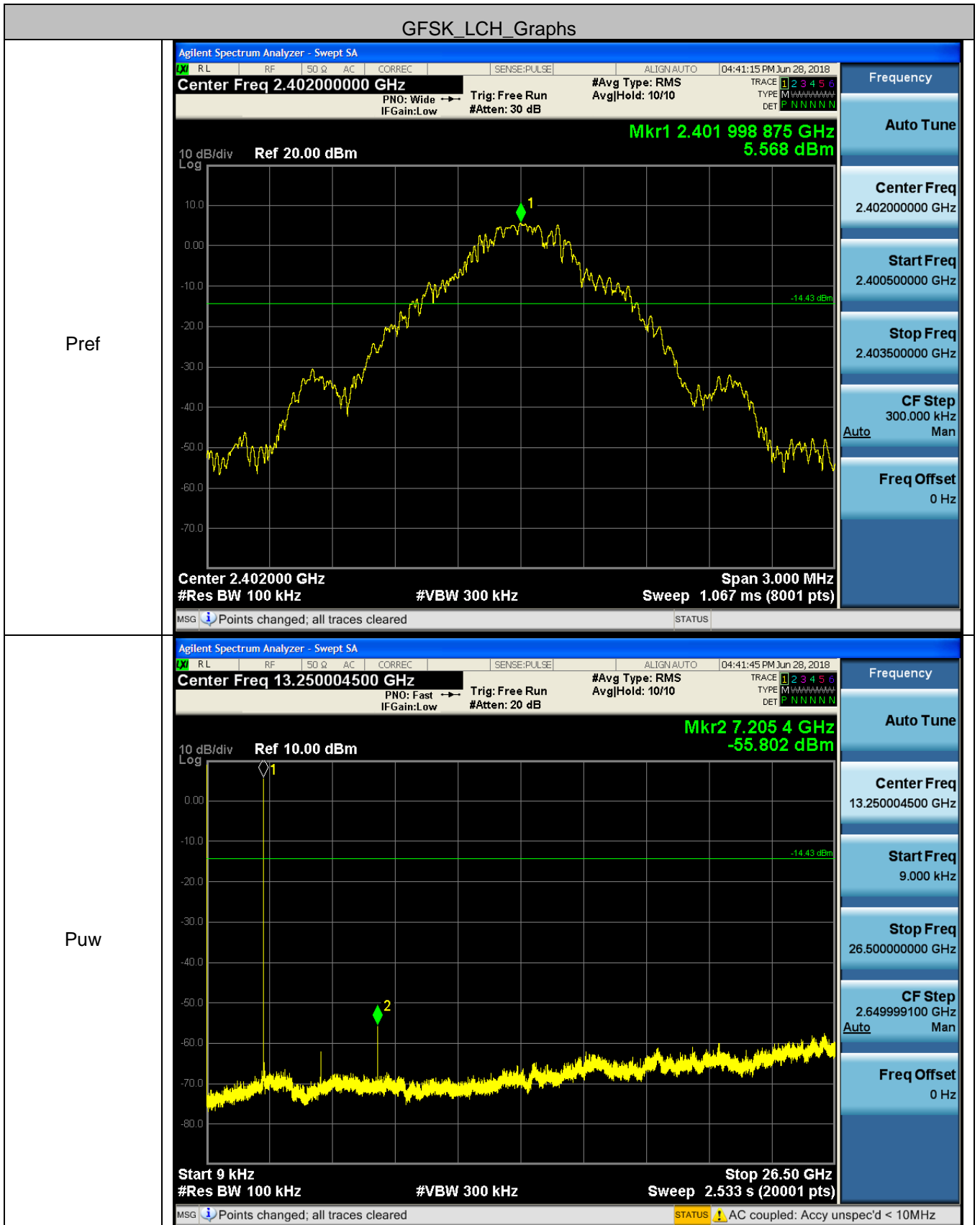


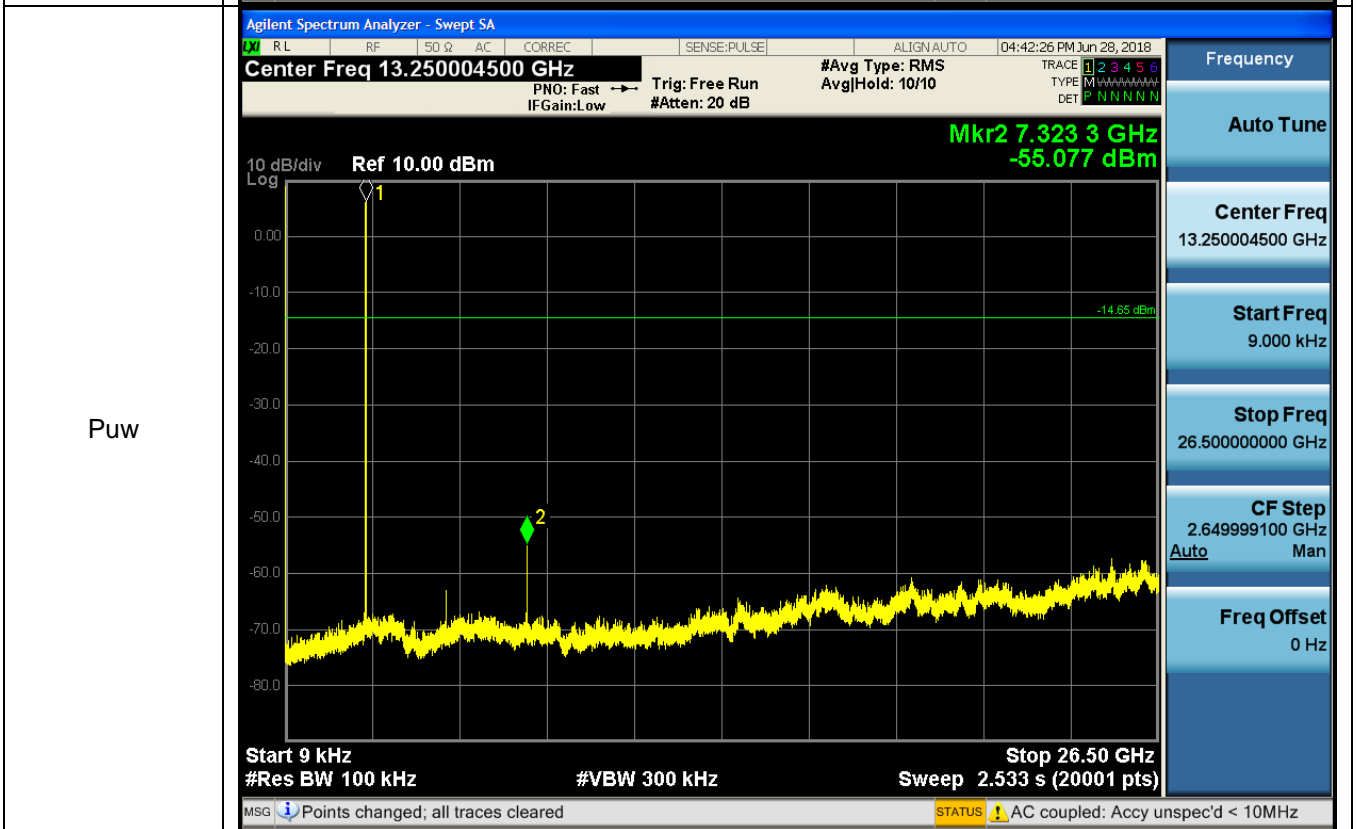




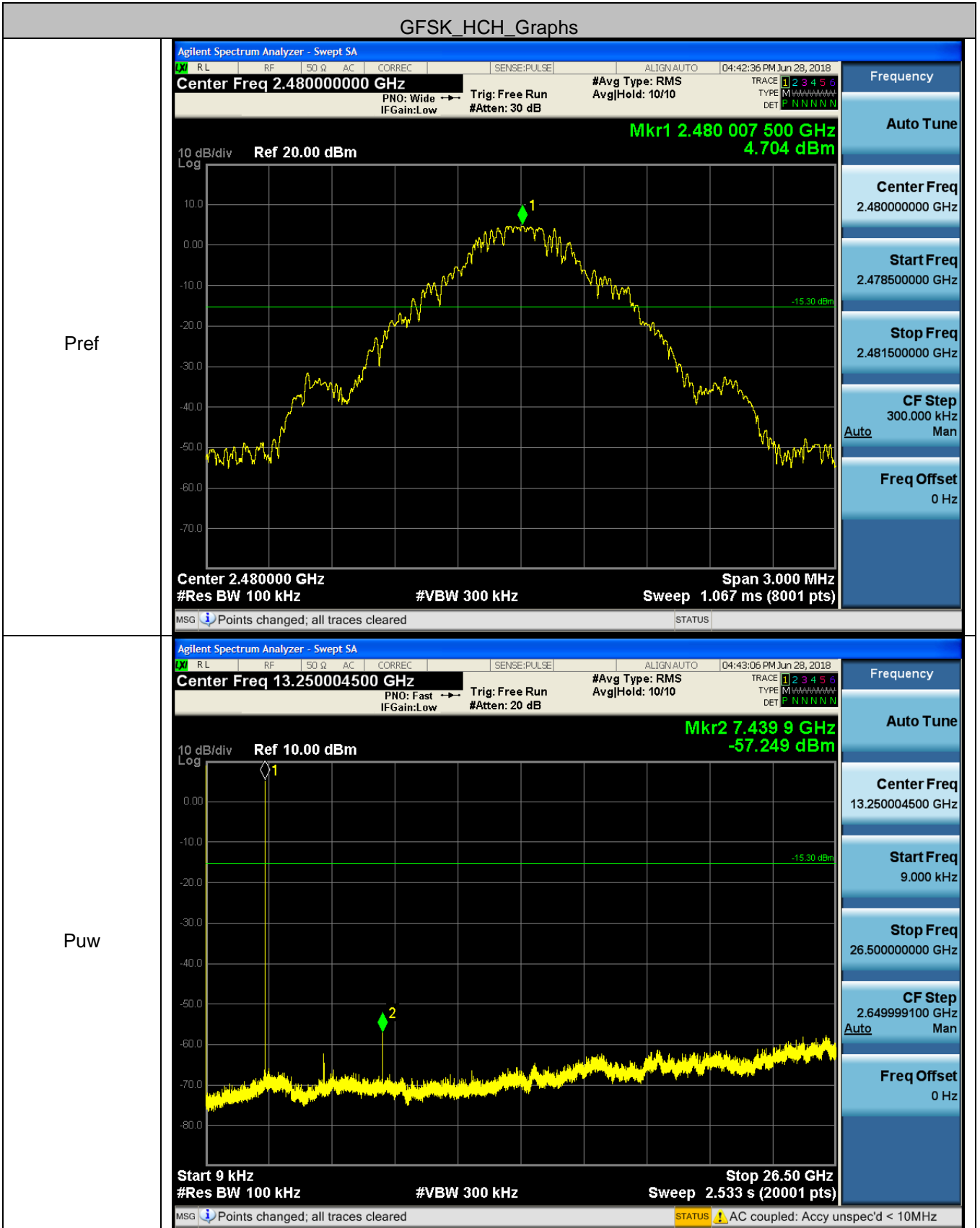


A.7 RF Conducted Spurious Emissions Test Graph

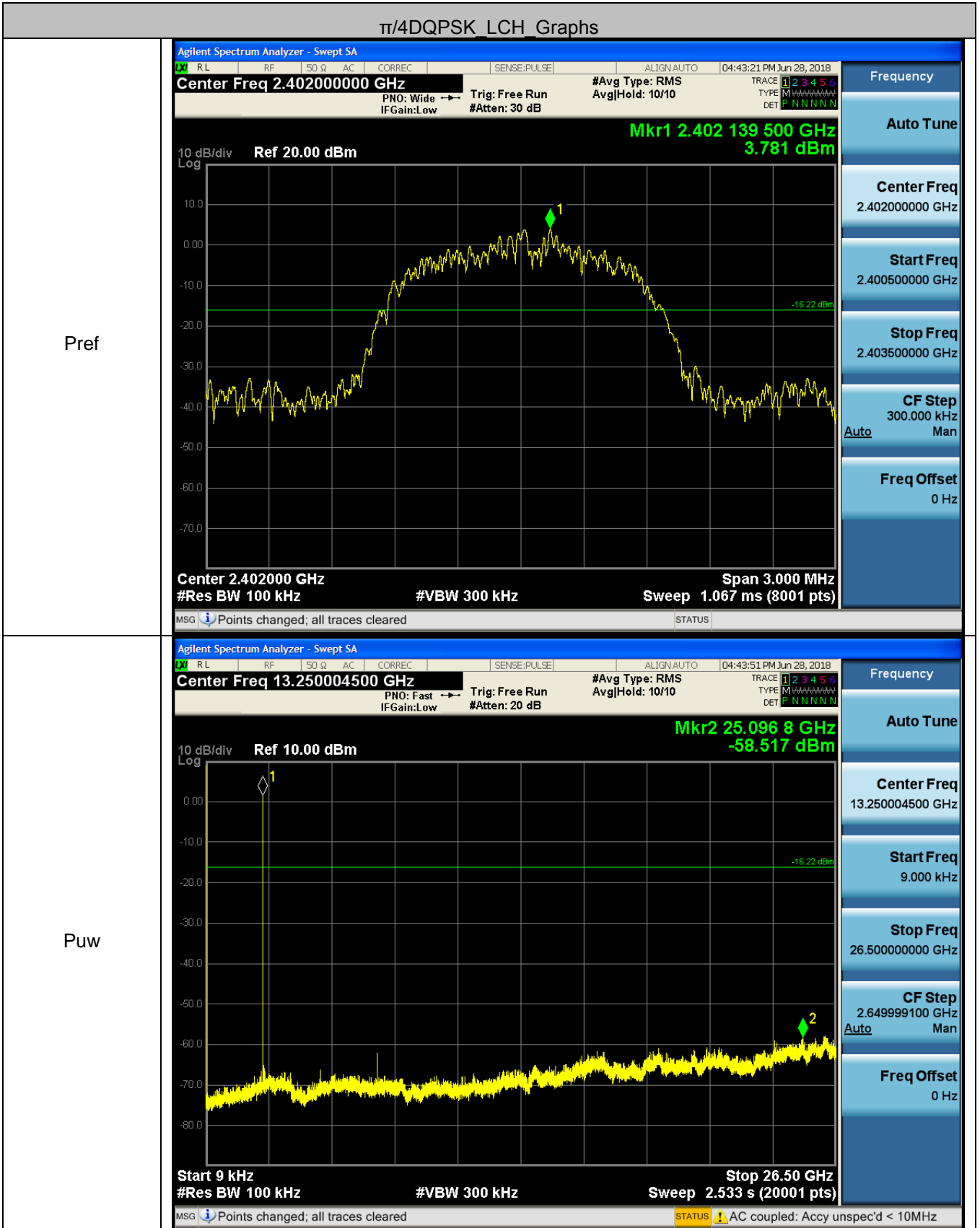




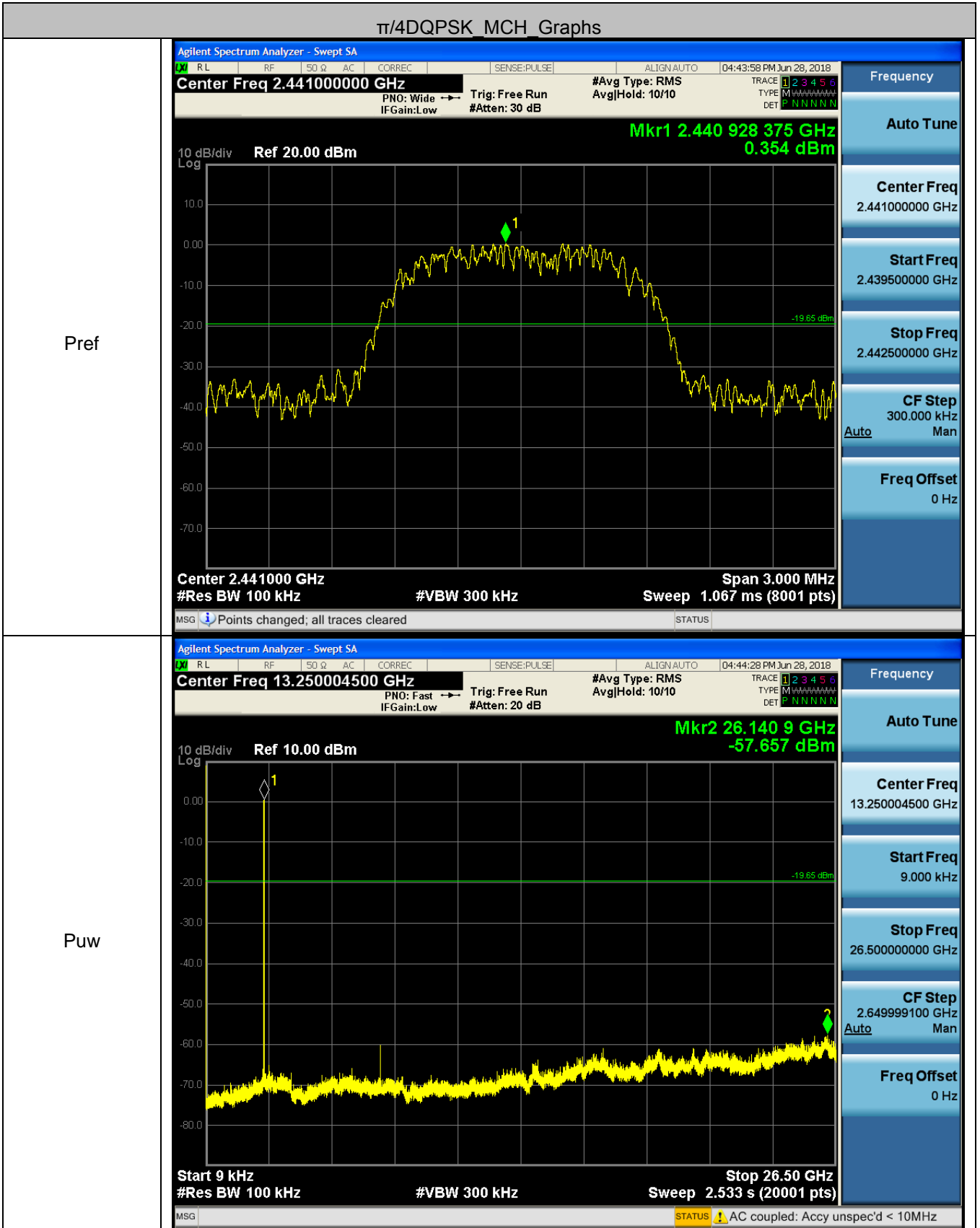
GFSK_HCH_Graphs



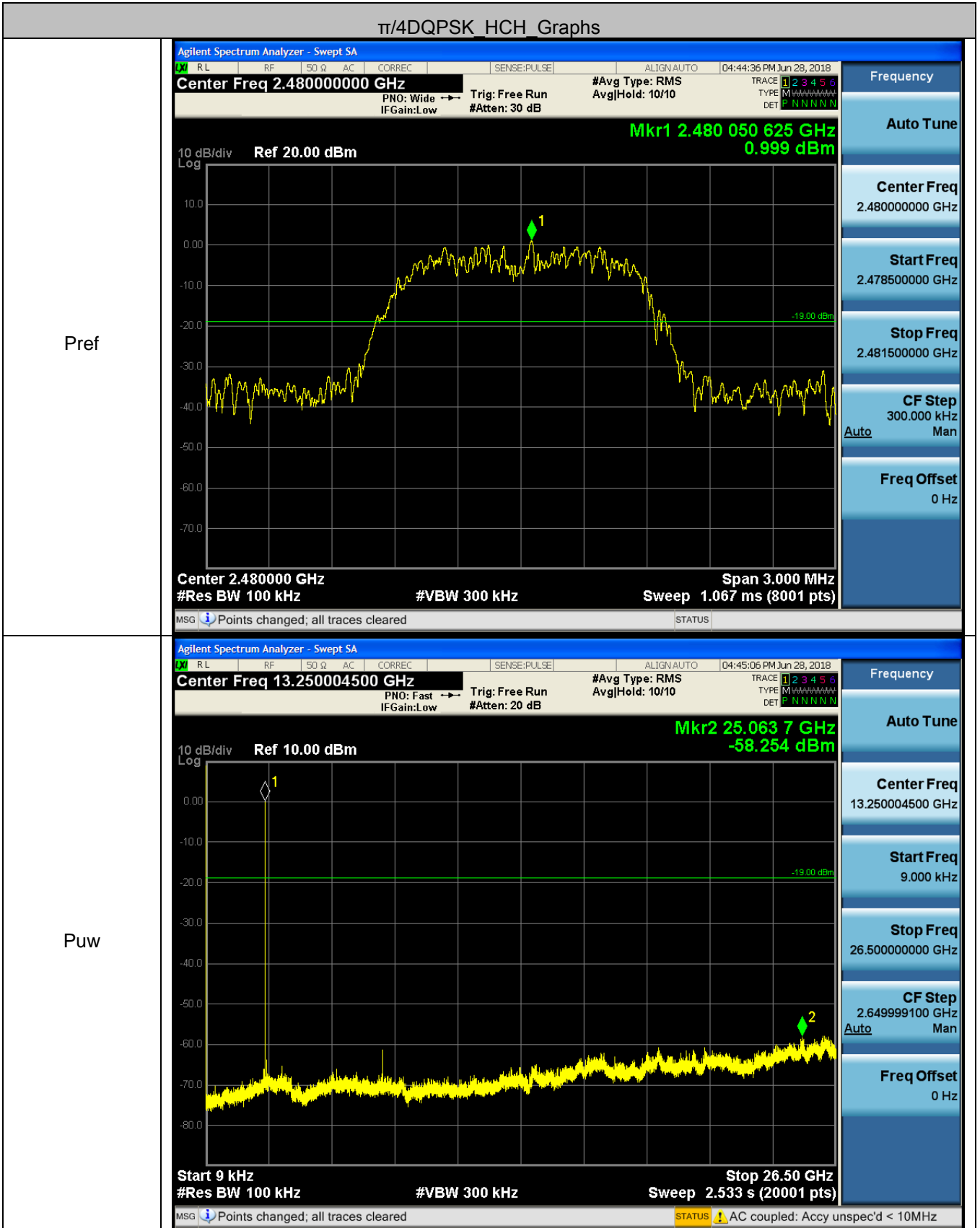
$\pi/4$ DQPSK LCH Graphs



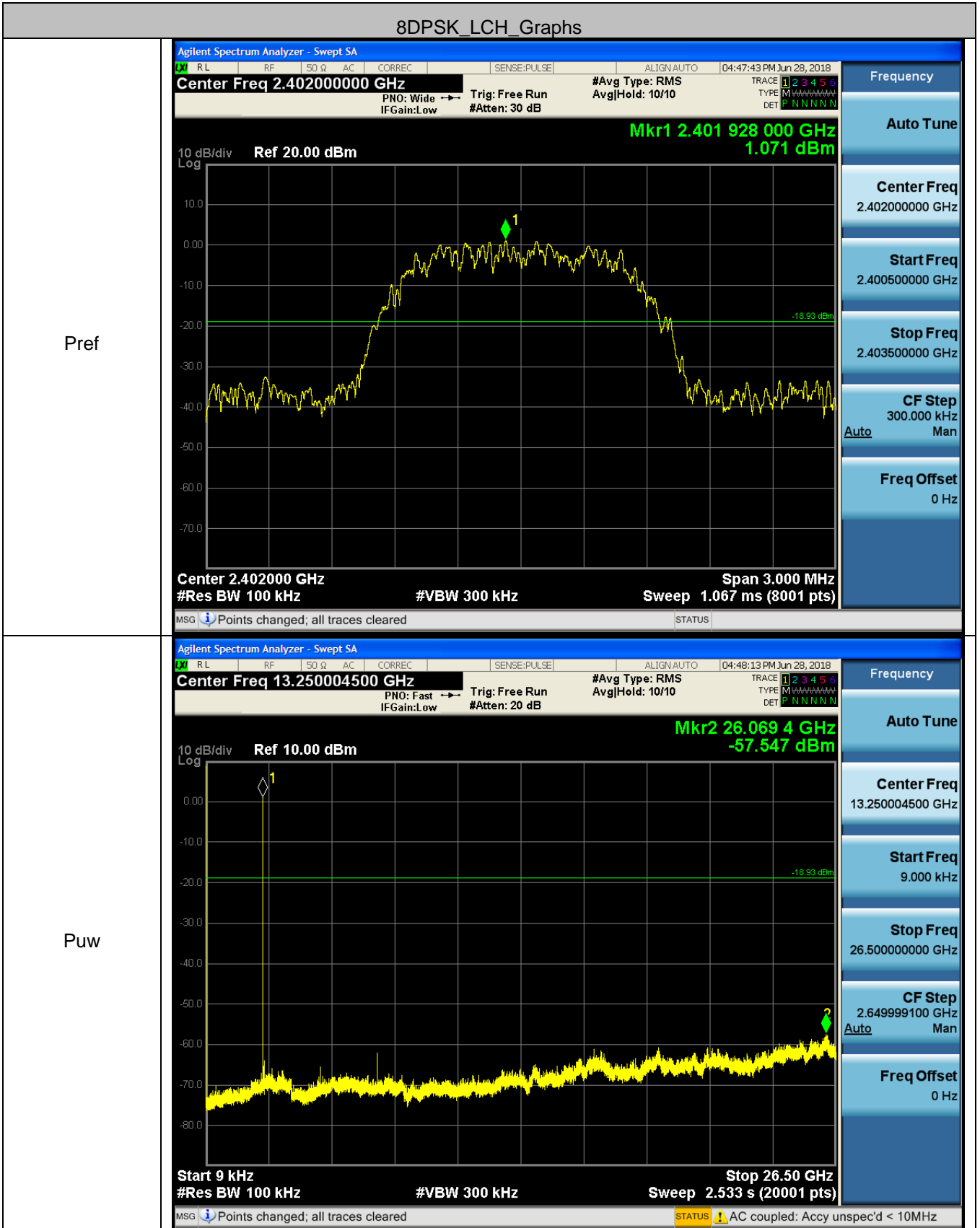
$\pi/4$ DQPSK MCH Graphs



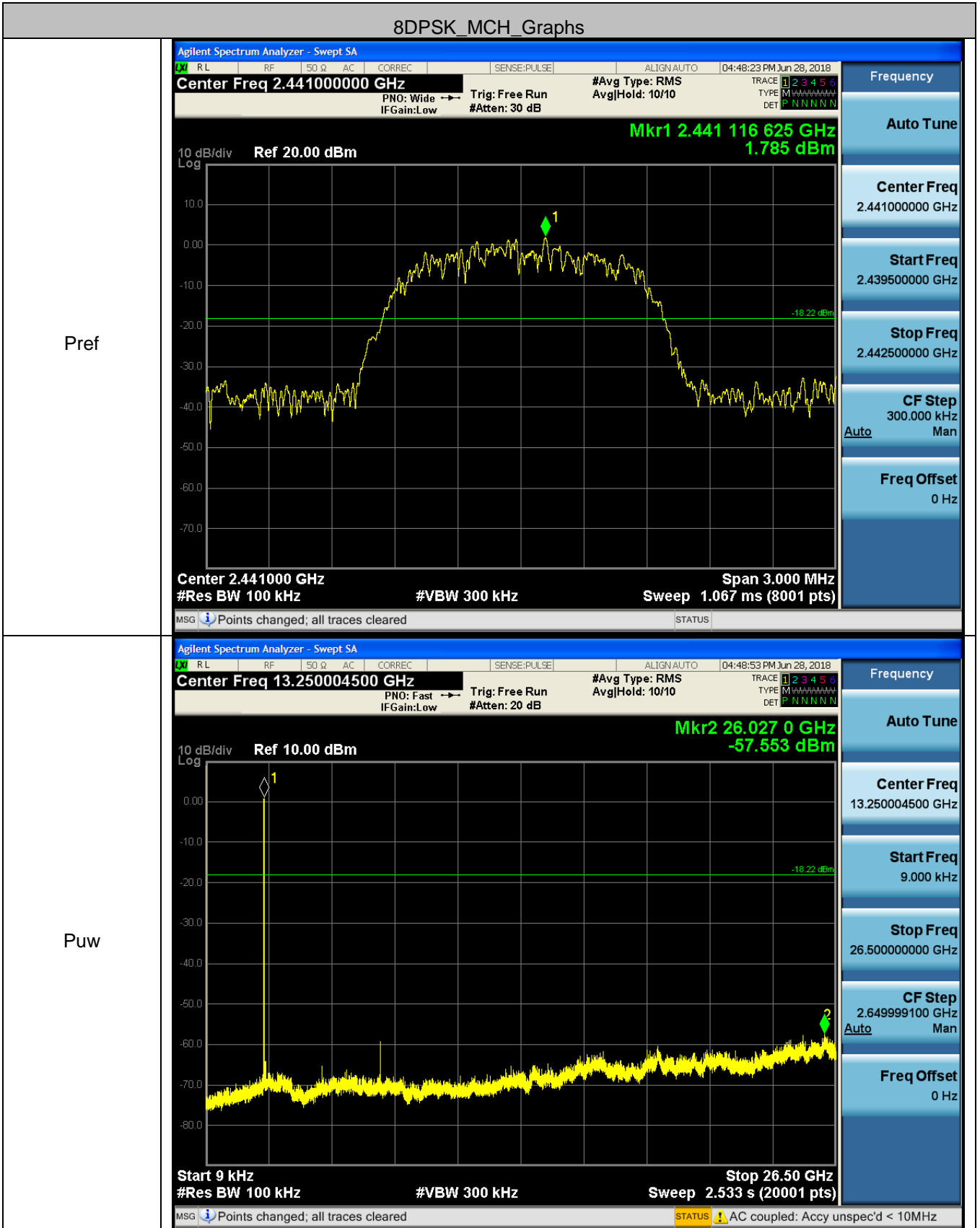
$\pi/4$ DQPSK HCH Graphs



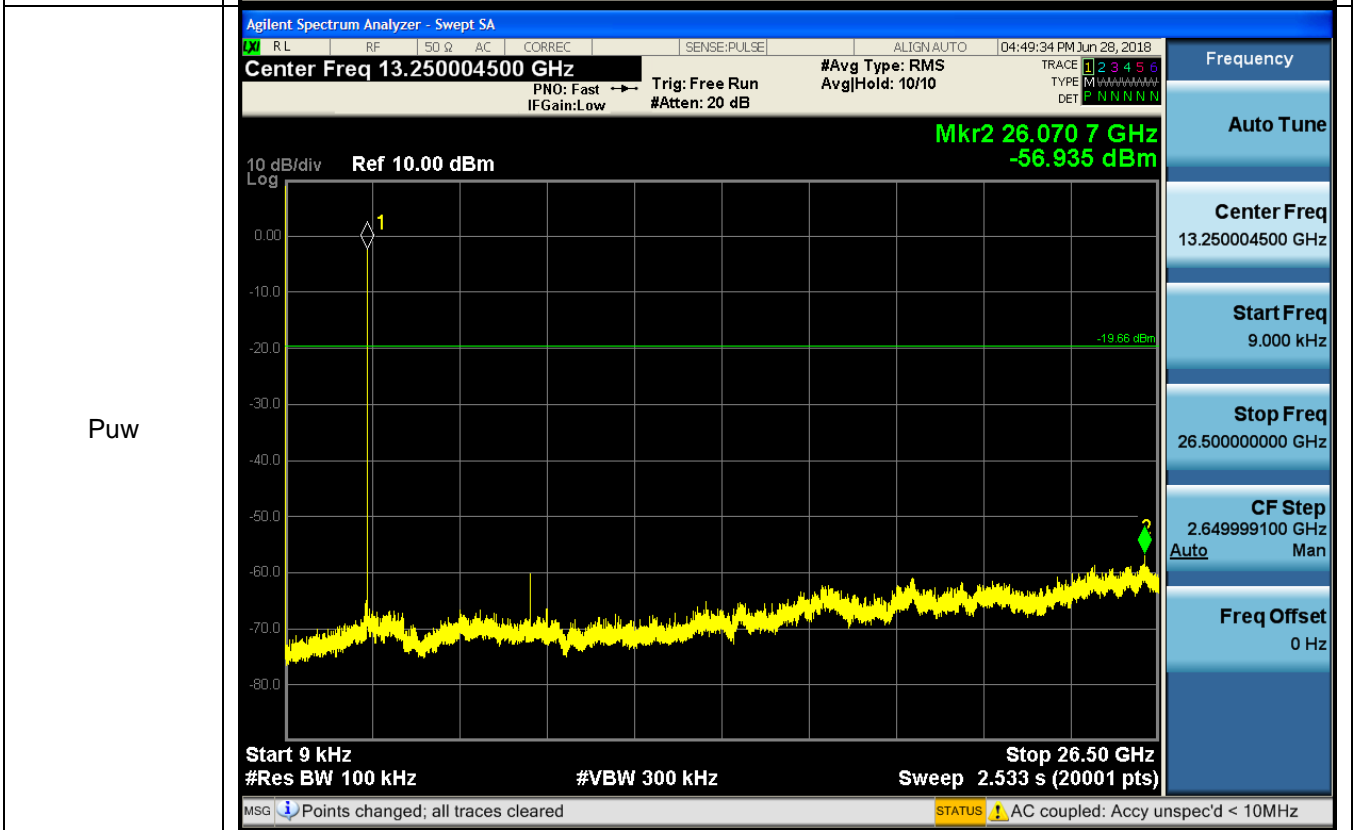
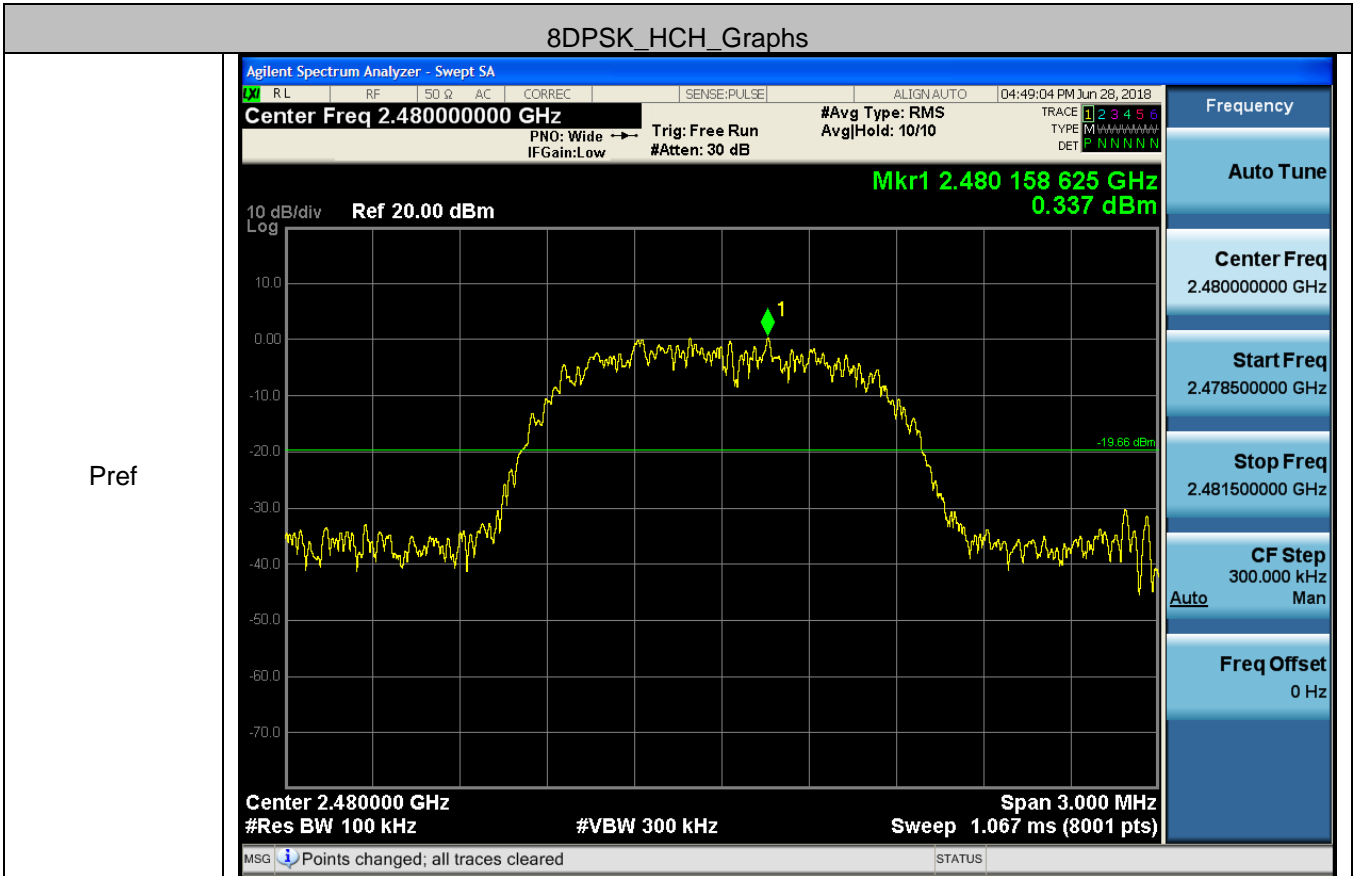
8DPSK_LCH_Graphs



8DPSK_MCH_Graphs



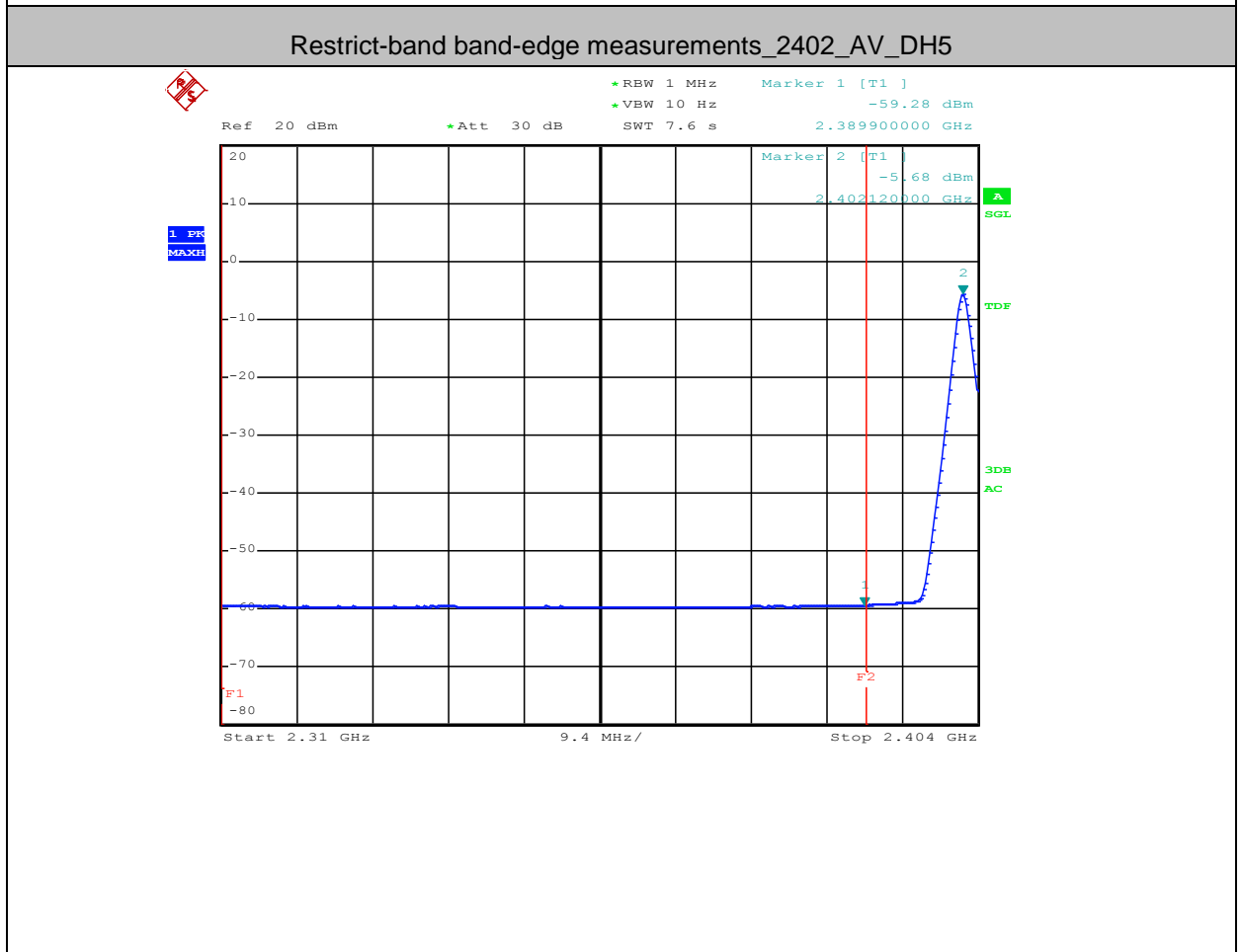
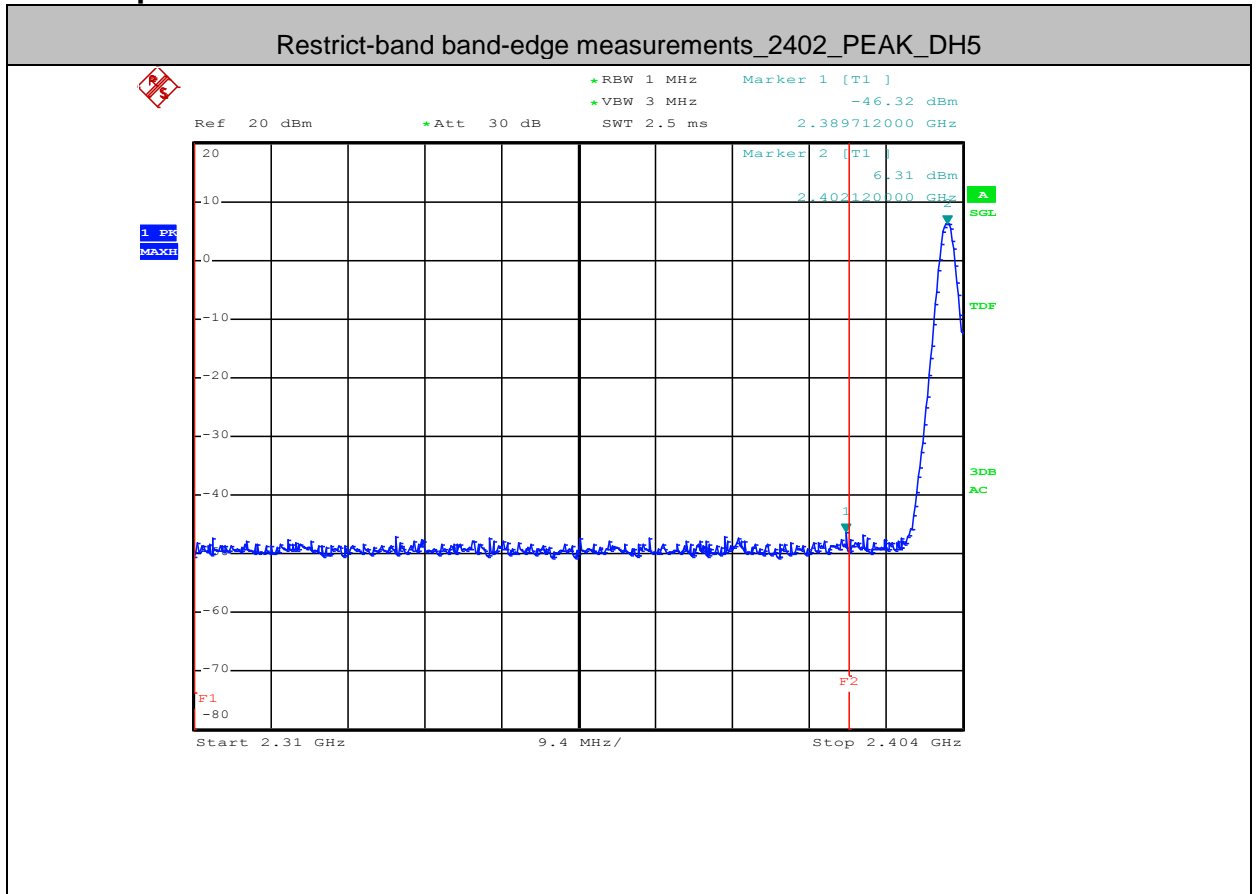
8DPSK_HCH_Graphs



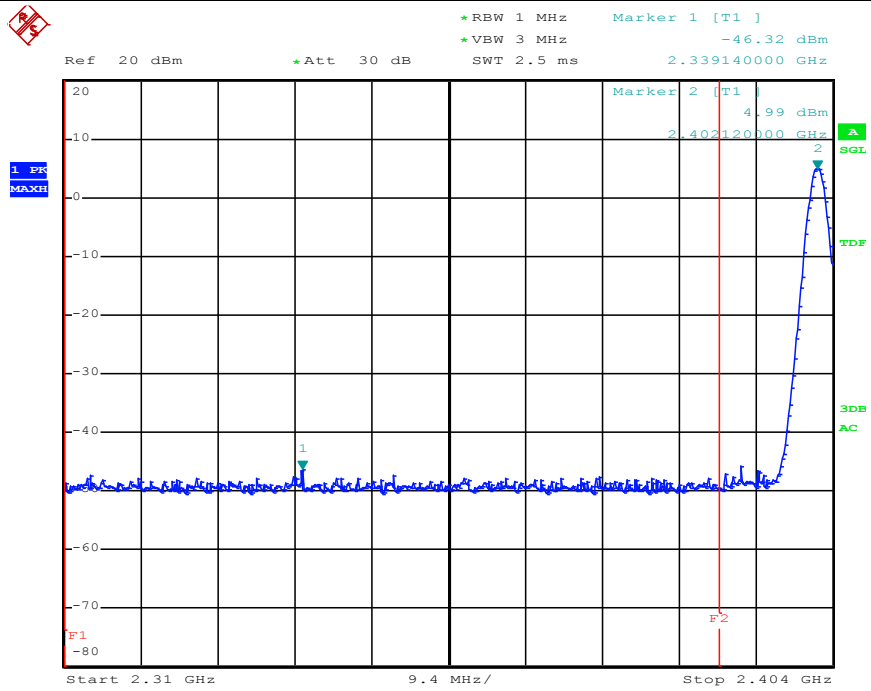
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detect or	Limit [dBuV/m]	Verdi
GFSK	Off	2310.0-2390.0	-46.32	1.76	0	50.64	PEAK	74	PASS
	Off	2310.0-2390.0	-59.28	1.76	0	37.68	AV	54	PASS
	Off	2483.5-2500.0	-40.60	1.76	0	56.36	PEAK	74	PASS
	Off	2483.5-2500.0	-47.02	1.76	0	49.94	AV	54	PASS
$\pi/4$ DQPSK K	Off	2310.0-2390.0	-46.32	1.76	0	50.64	PEAK	74	PASS
	Off	2310.0-2390.0	-59.27	1.76	0	37.69	AV	54	PASS
	Off	2483.5-2500.0	-40.02	1.76	0	56.94	PEAK	74	PASS
	Off	2483.5-2500.0	-49.34	1.76	0	47.62	AV	54	PASS
8DPSK	Off	2310.0-2390.0	-46.54	1.76	0	50.42	PEAK	74	PASS
	Off	2310.0-2390.0	-59.26	1.76	0	37.70	AV	54	PASS
	Off	2483.5-2500.0	-40.18	1.76	0	56.78	PEAK	74	PASS
	Off	2483.5-2500.0	-48.87	1.76	0	48.09	AV	54	PASS

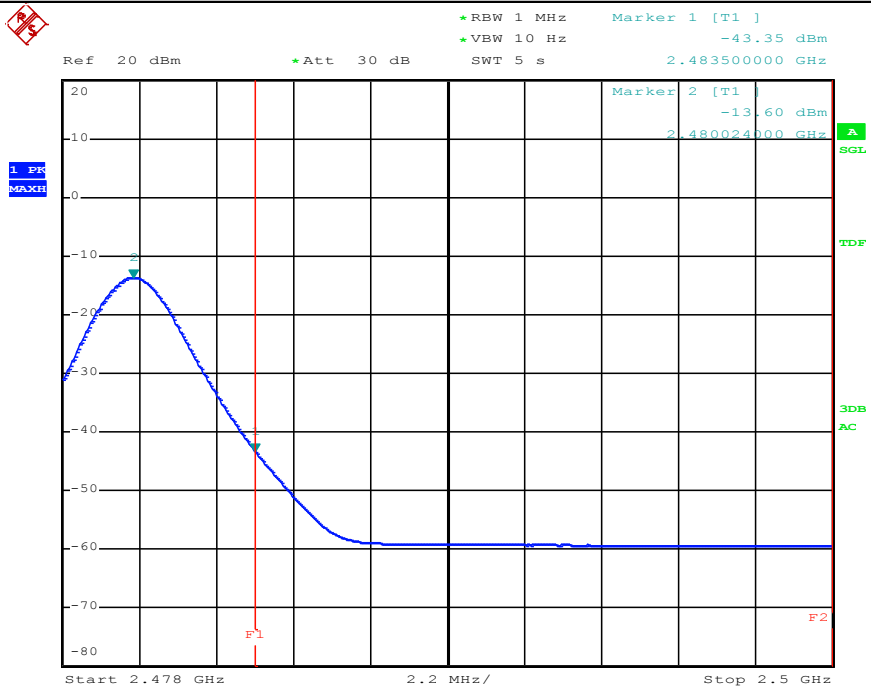
Test Graph

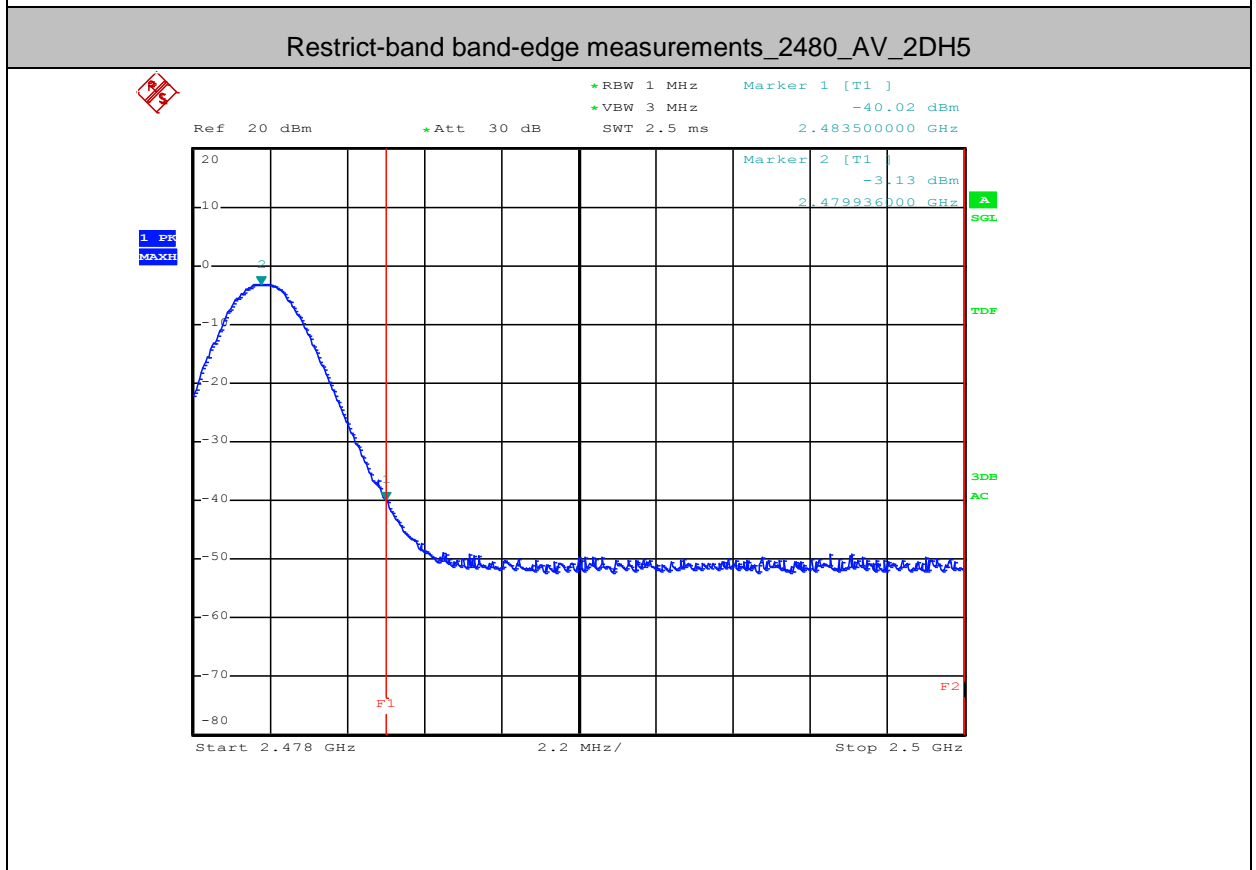
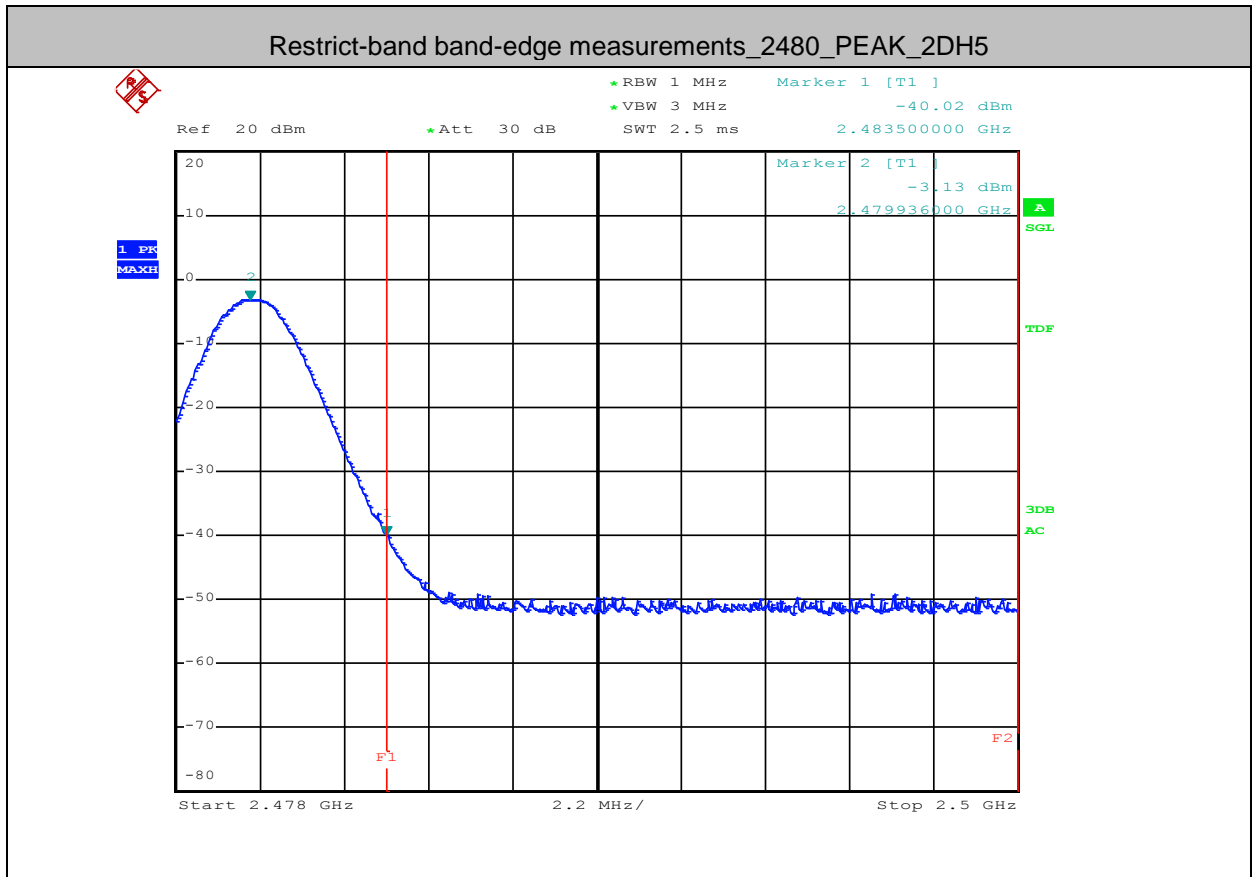


Restrict-band band-edge measurements_2402_PEAK_2DH5

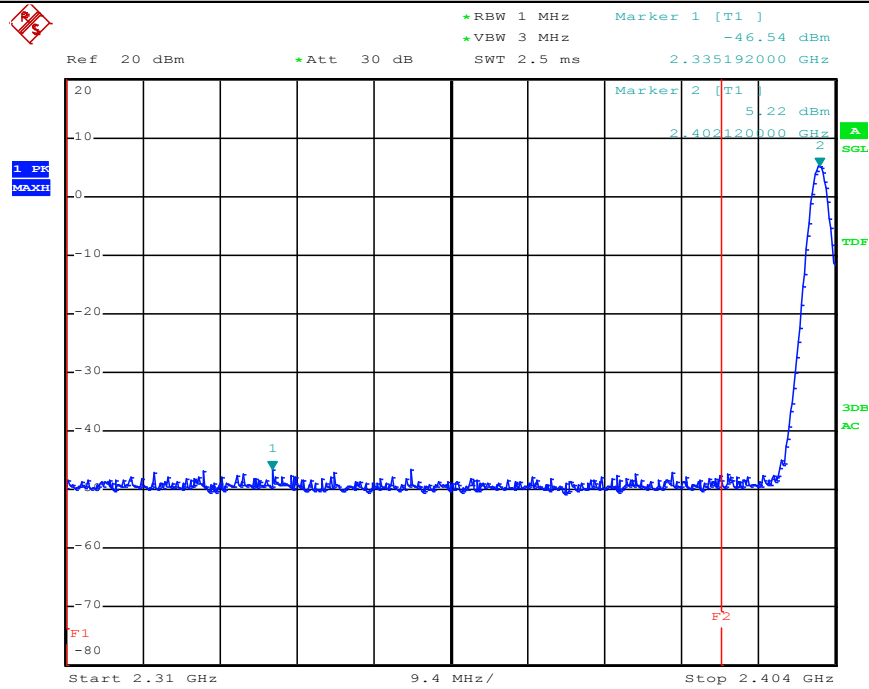


Restrict-band band-edge measurements_2402_AV_2DH5

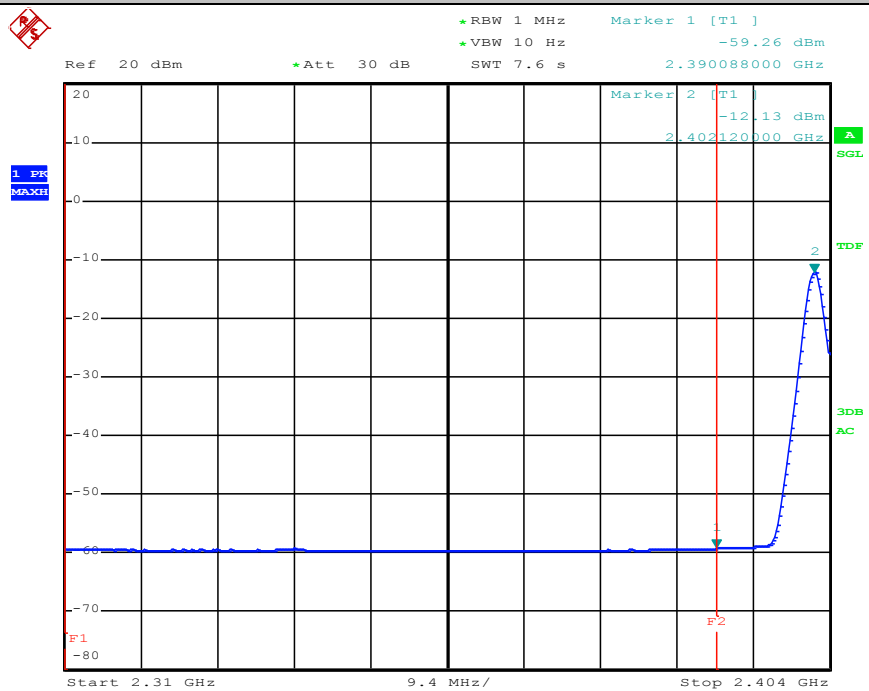




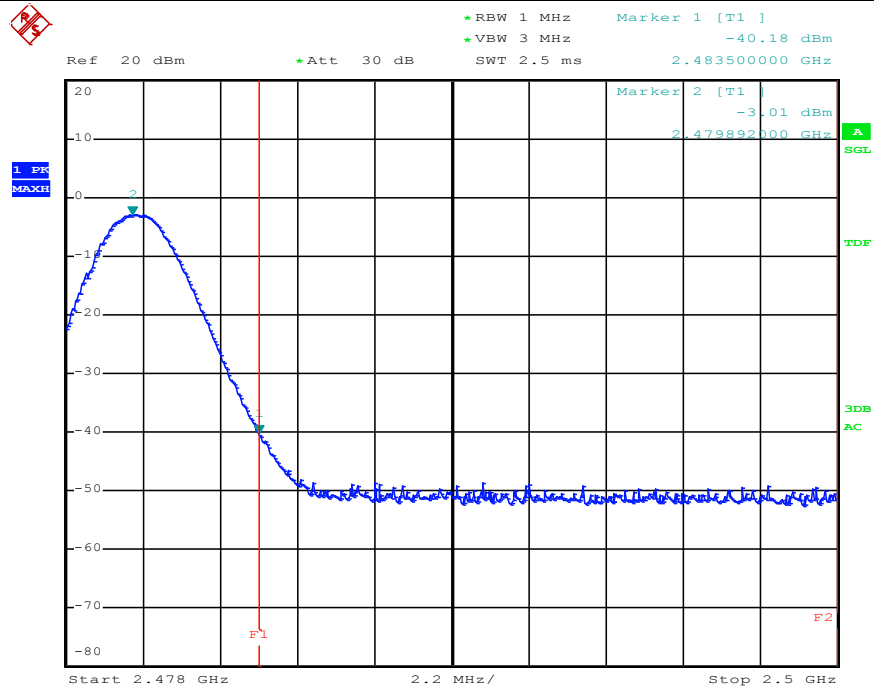
Restrict-band band-edge measurements_2402_PEAK_3DH5



Restrict-band band-edge measurements_2402_AV_3DH5



Restrict-band band-edge measurements_2480_PEAK_3DH5



Restrict-band band-edge measurements_2480_AV_3DH5

