

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

Product Name: Bluetooth headphone

Trade Mark: sentry

Test Model: BT940

FCC ID: 2ACP4BT940

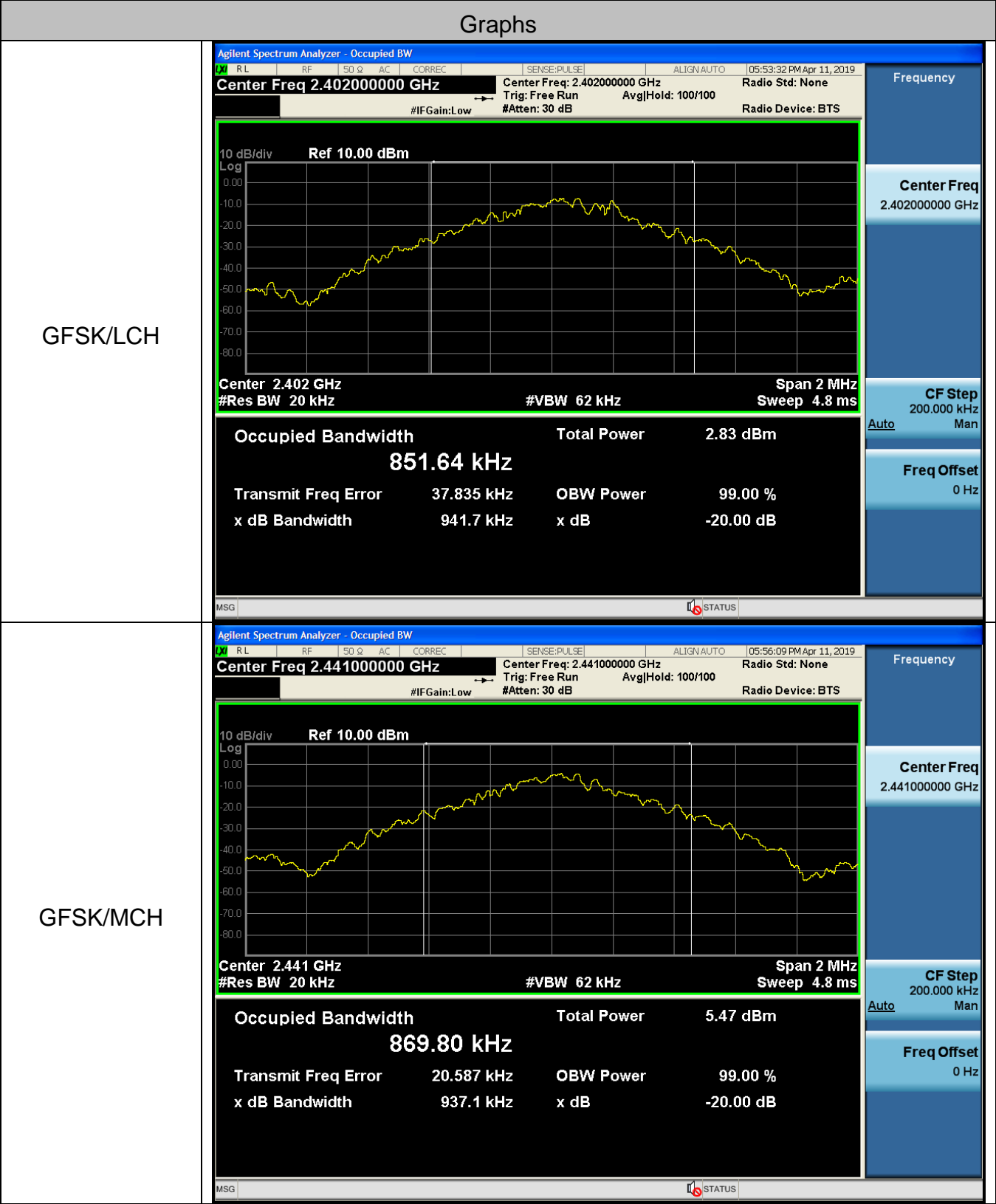
Environmental Conditions

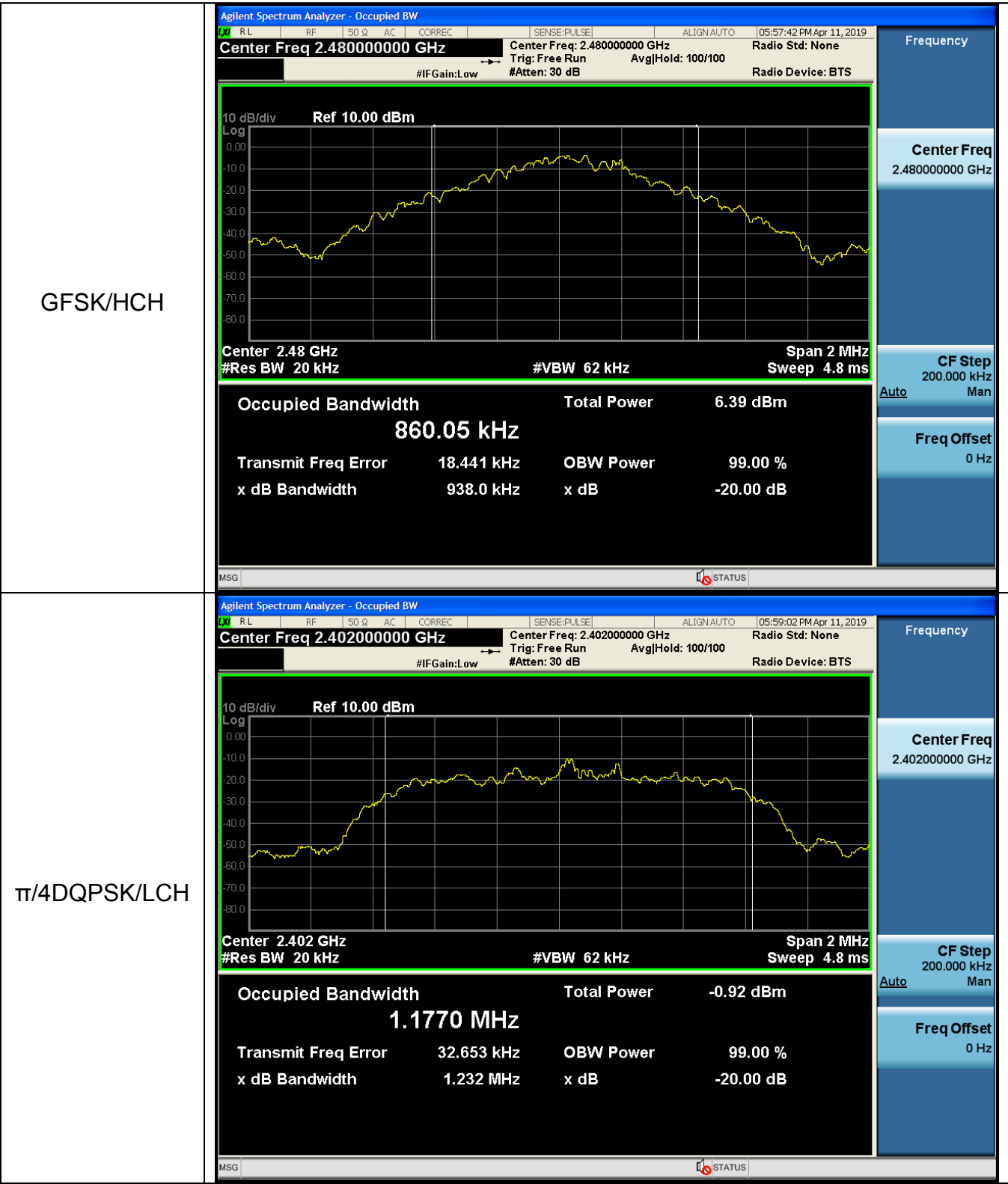
Temperature:	24.7℃
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Gary Qian
Supervised by:	Eden Hu

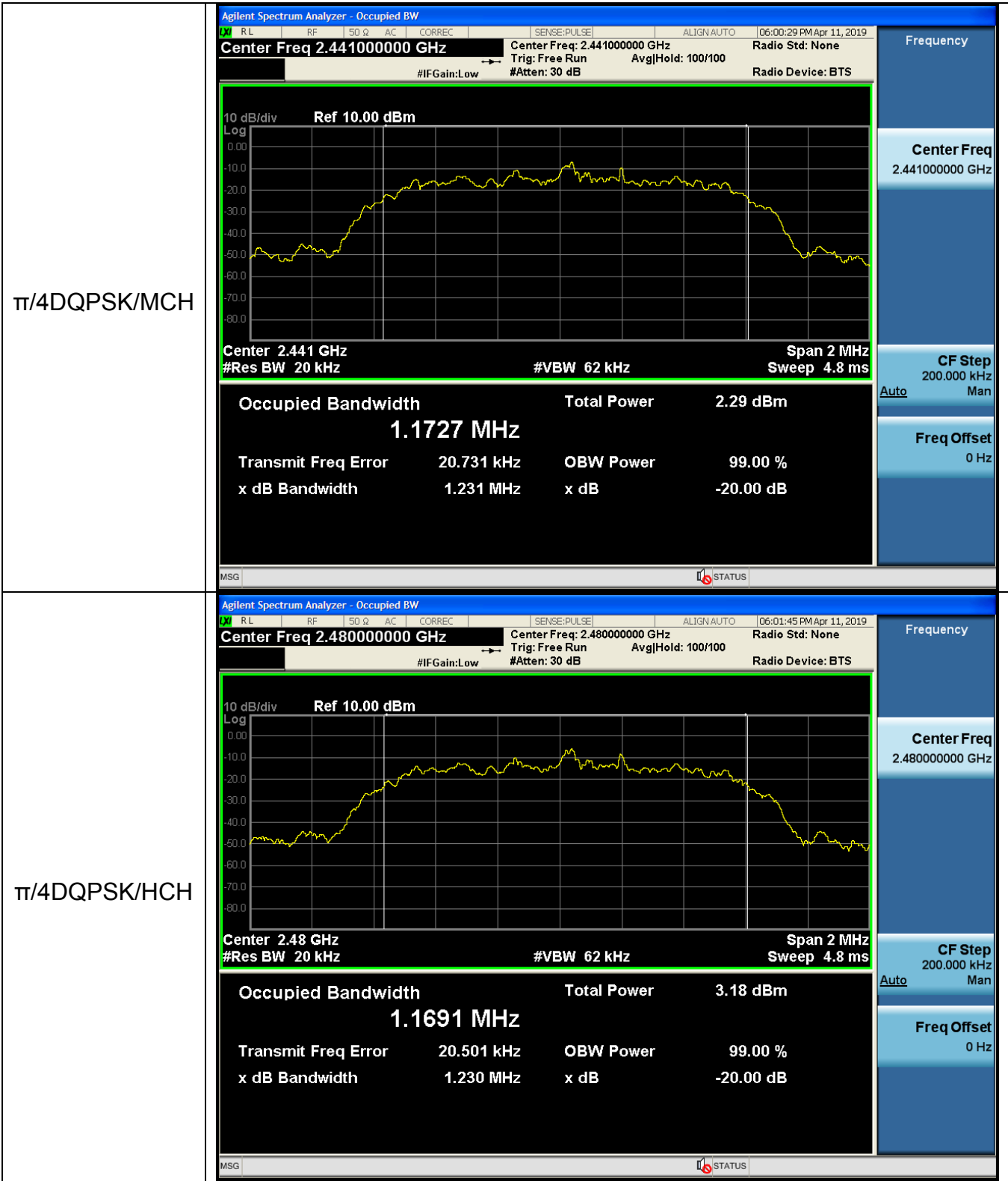
A.1 20 dB Bandwidth

Mode	Channel.	20dB Bandwidth [MHz]	Limit(MHz)	Verdict
GFSK	LCH	0.942	Not Specified	PASS
GFSK	MCH	0.937	Not Specified	PASS
GFSK	HCH	0.938	Not Specified	PASS
$\pi/4$ DQPSK	LCH	1.232	Not Specified	PASS
$\pi/4$ DQPSK	MCH	1.231	Not Specified	PASS
$\pi/4$ DQPSK	HCH	1.230	Not Specified	PASS

Test Graph



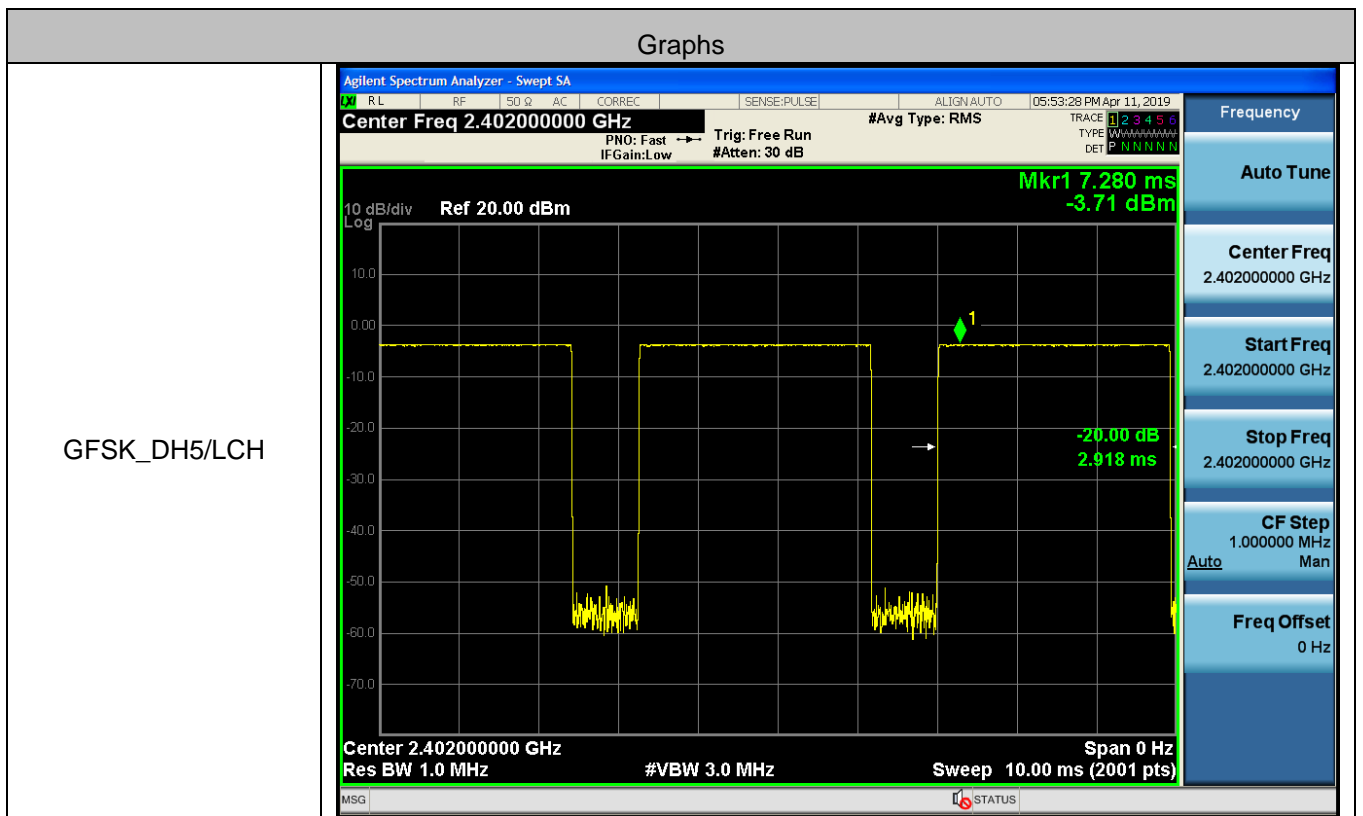


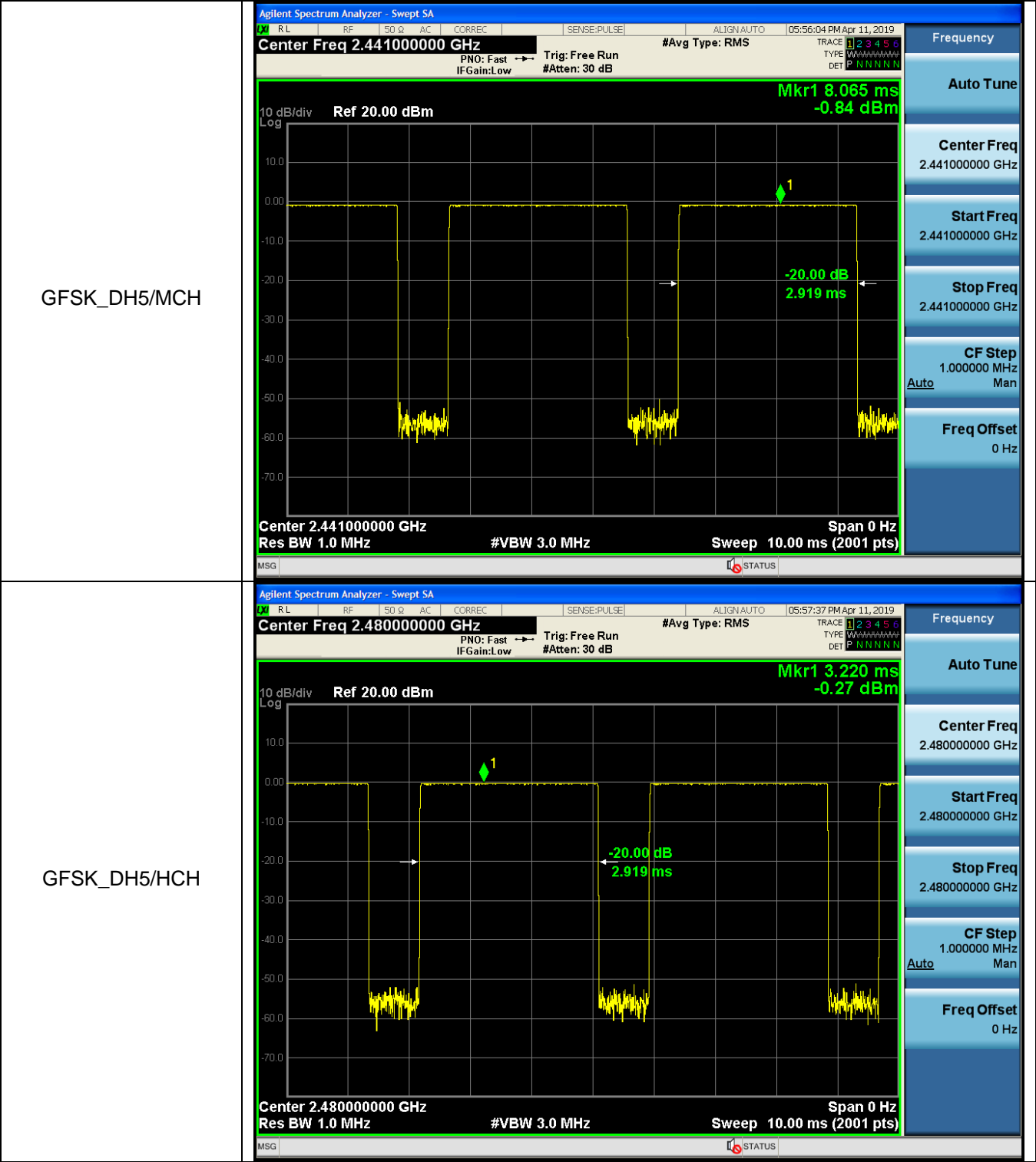


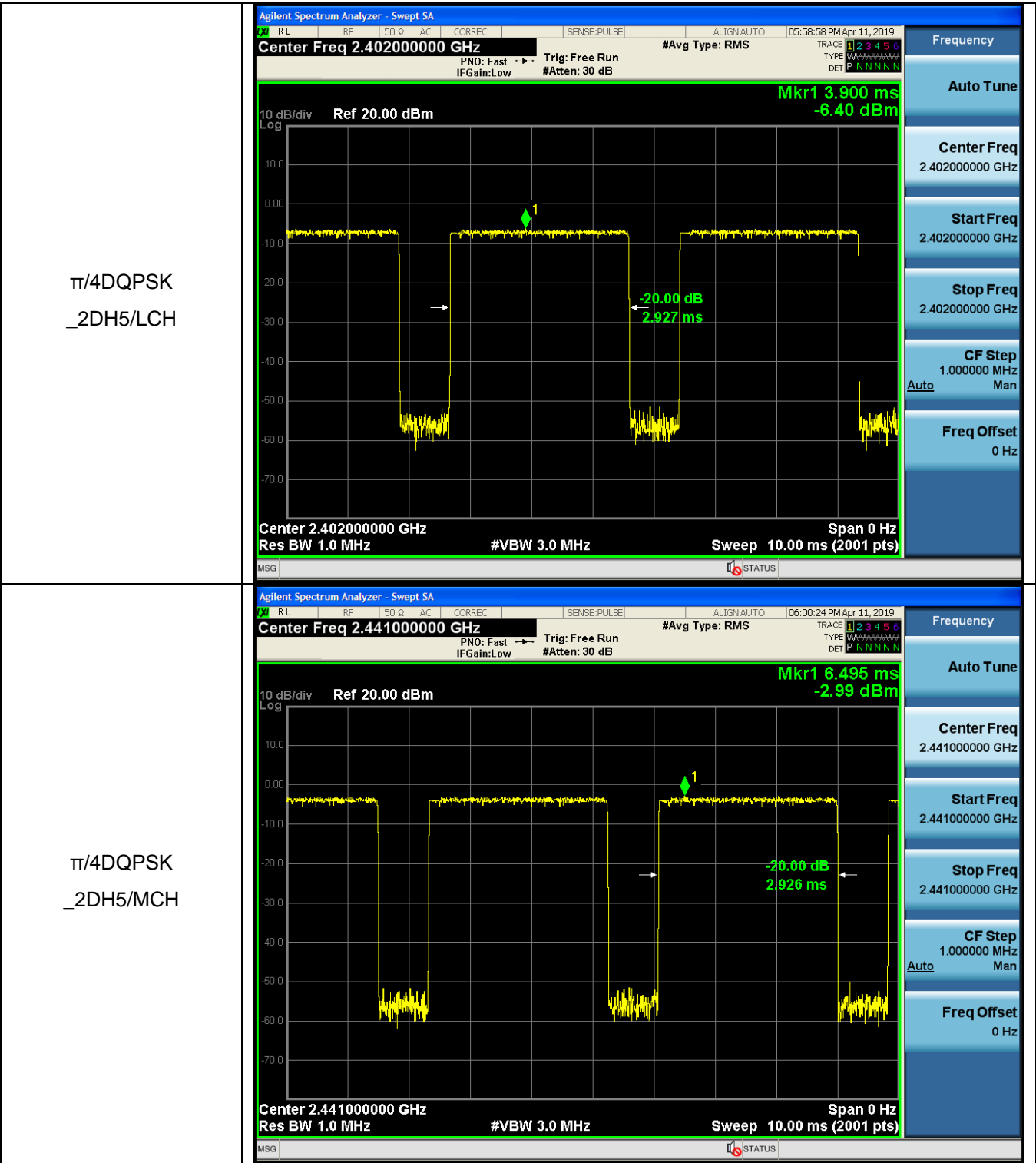
A.2 Dwell Time

Mode	Packet	Channel	Burst Width [s/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	0.002918	106.7	0.311338	0.4	PASS
GFSK	DH5	MCH	0.002919	106.7	0.311423	0.4	PASS
GFSK	DH5	HCH	0.002919	106.7	0.311447	0.4	PASS
$\pi/4$ DQPSK	2DH5	LCH	0.002927	106.7	0.312311	0.4	PASS
$\pi/4$ DQPSK	2DH5	MCH	0.002926	106.7	0.312201	0.4	PASS
$\pi/4$ DQPSK	2DH5	HCH	0.002927	106.7	0.312312	0.4	PASS

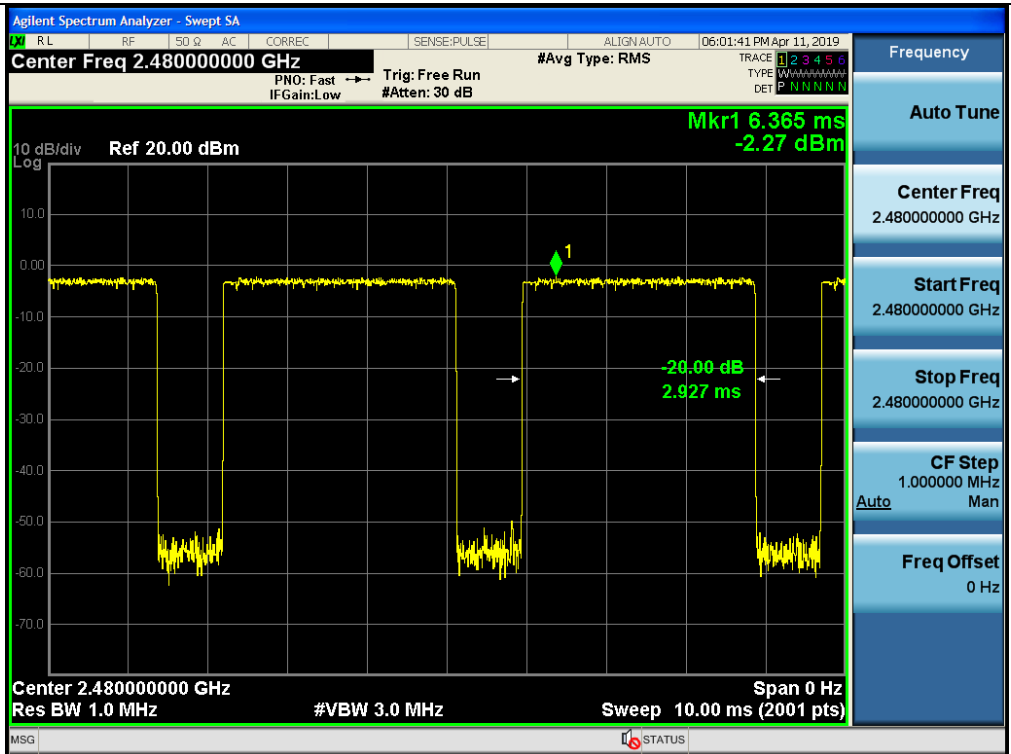
Test Graph







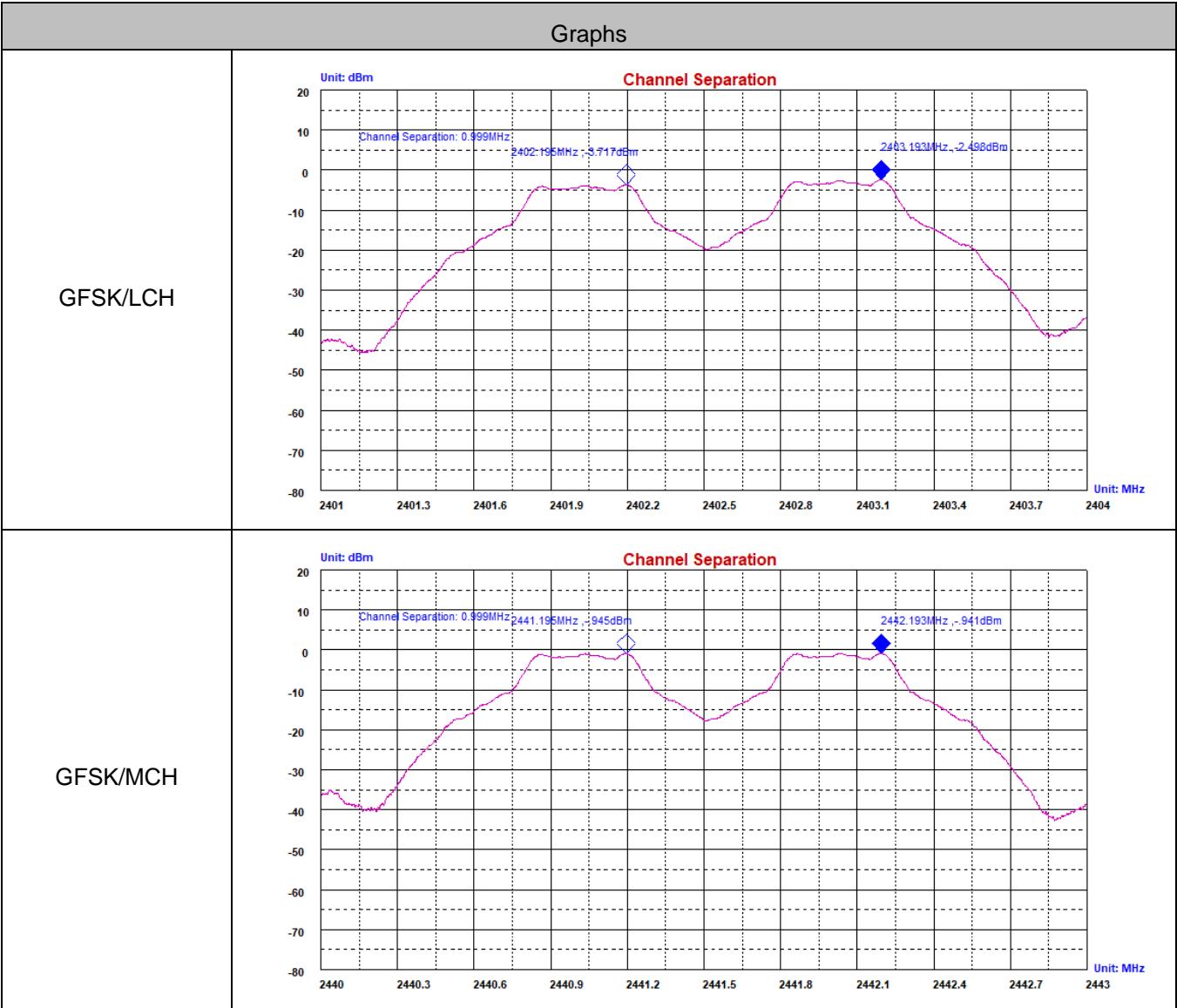
π/4DQPSK
_2DH5/HCH

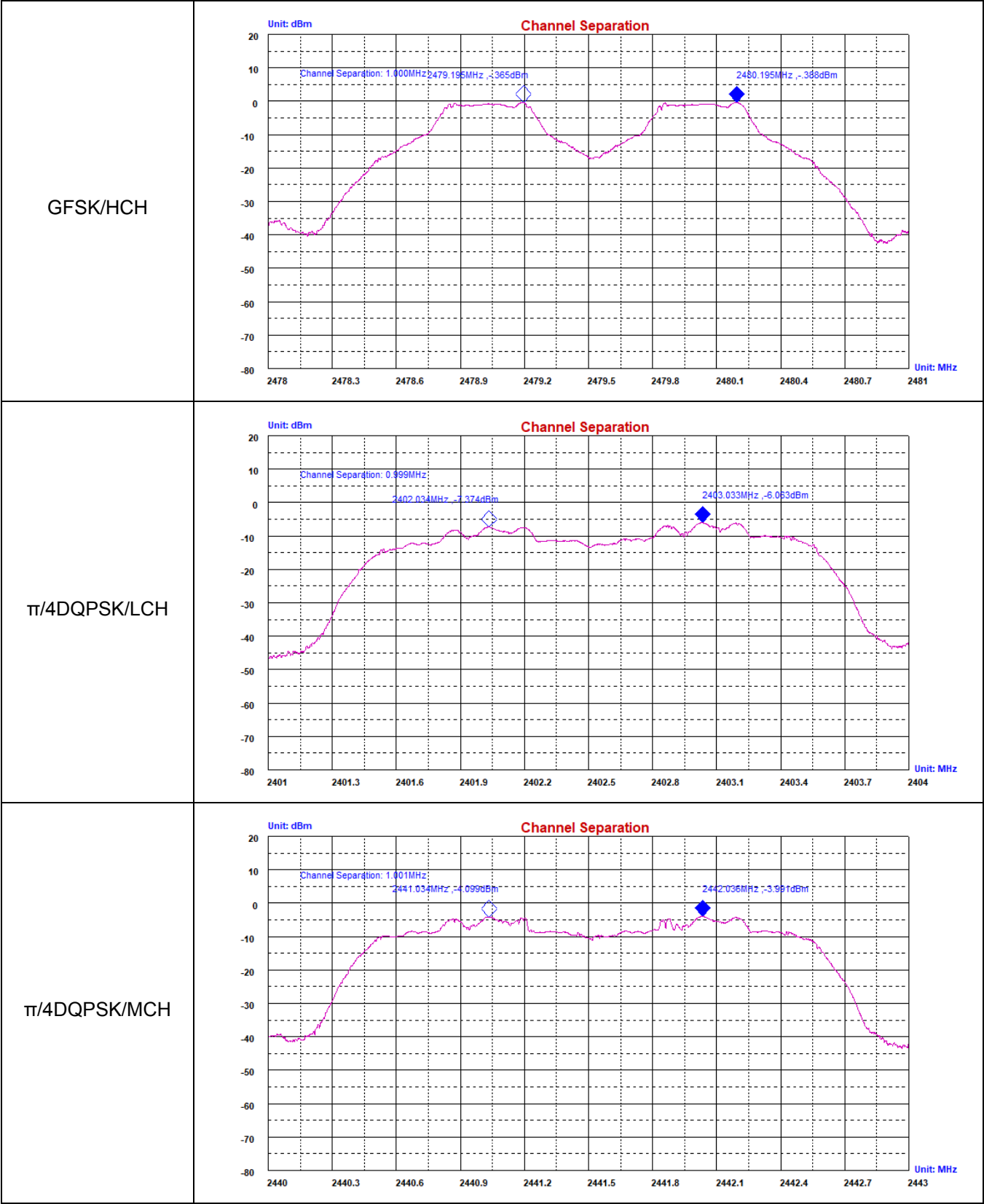


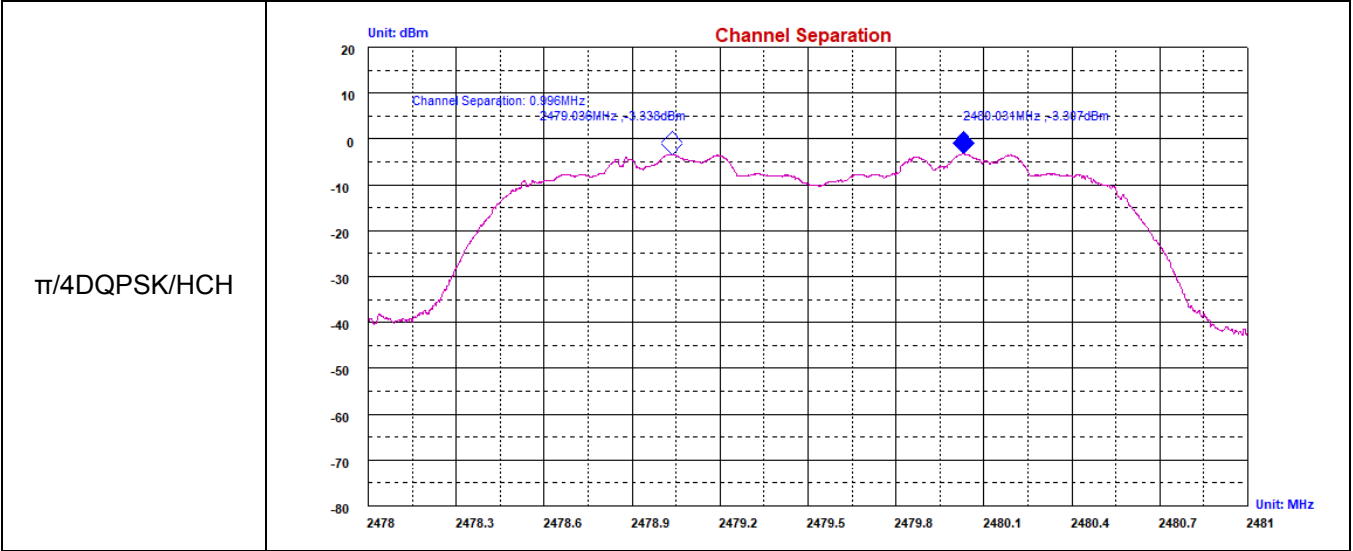
A.3 Carrier Frequency Separation

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.999	0.628	PASS
GFSK	MCH	0.999	0.625	PASS
GFSK	HCH	1.000	0.625	PASS
π /4DQPSK	LCH	0.999	0.821	PASS
π /4DQPSK	MCH	1.001	0.821	PASS
π /4DQPSK	HCH	0.996	0.820	PASS

Test Graph



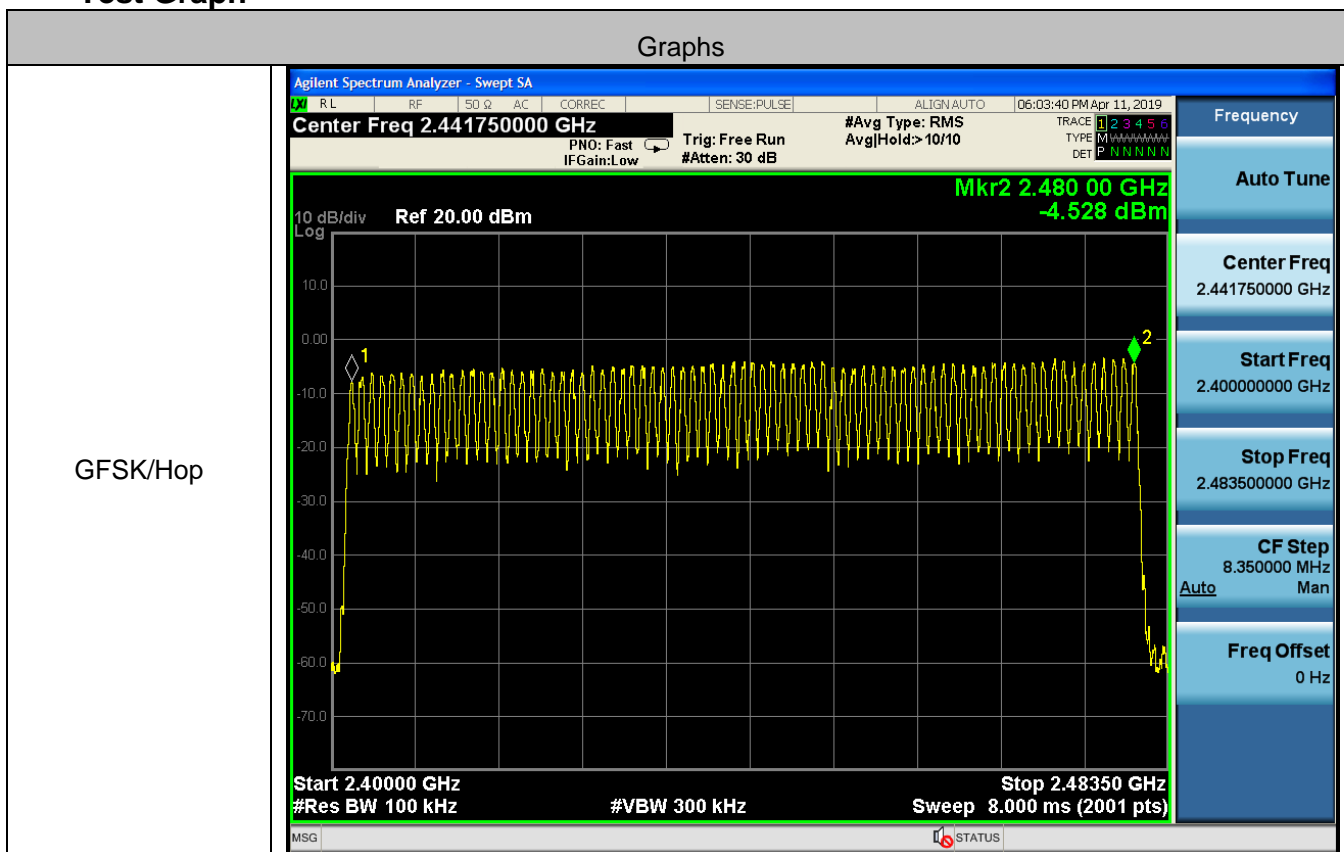




A.4 Hopping Channel Number

Mode	Channel.	Number of Hopping Channel[N]	Limit[N]	Verdict
GFSK	Hop	79	≥ 15	PASS
$\pi/4$ DQPSK	Hop	79	≥ 15	PASS

Test Graph

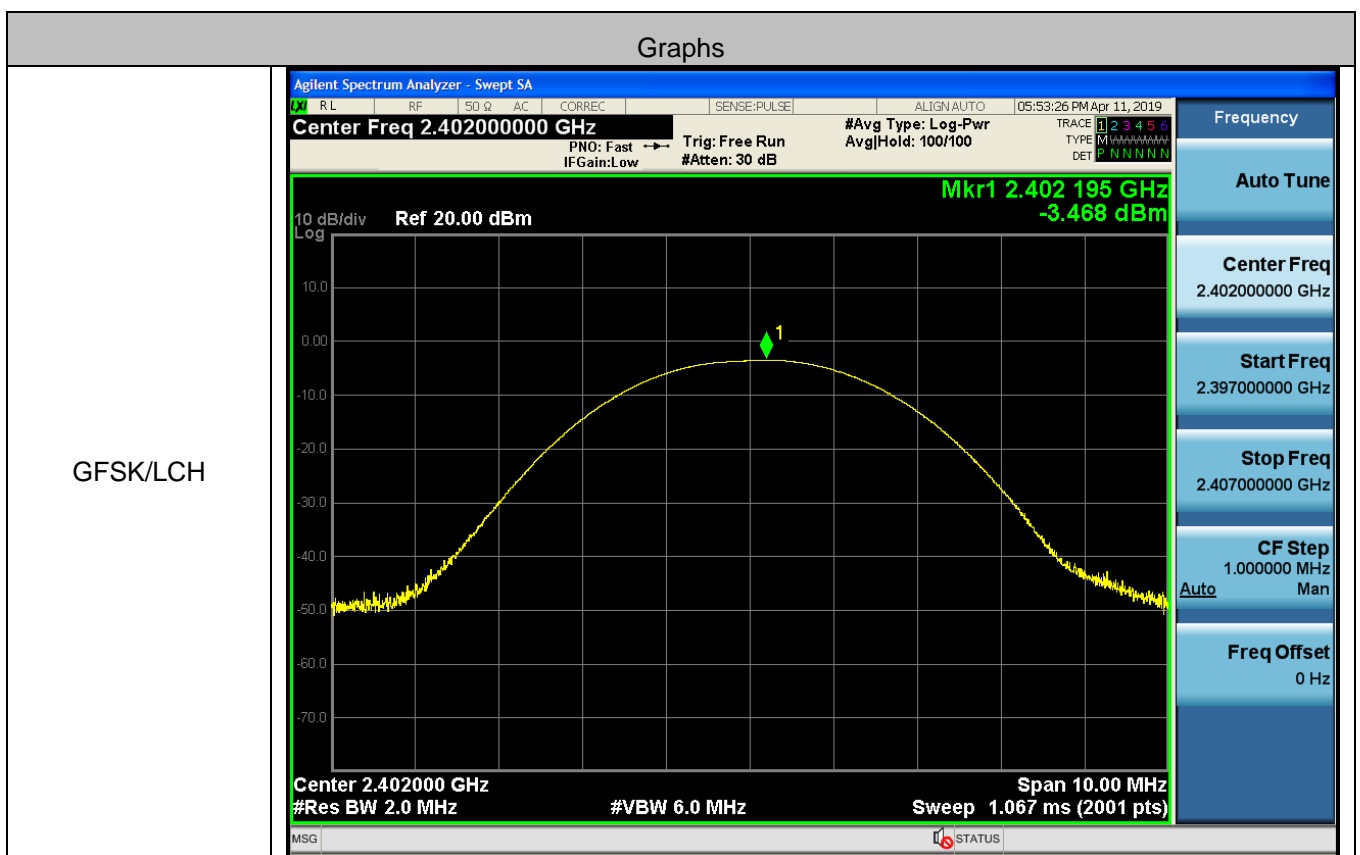


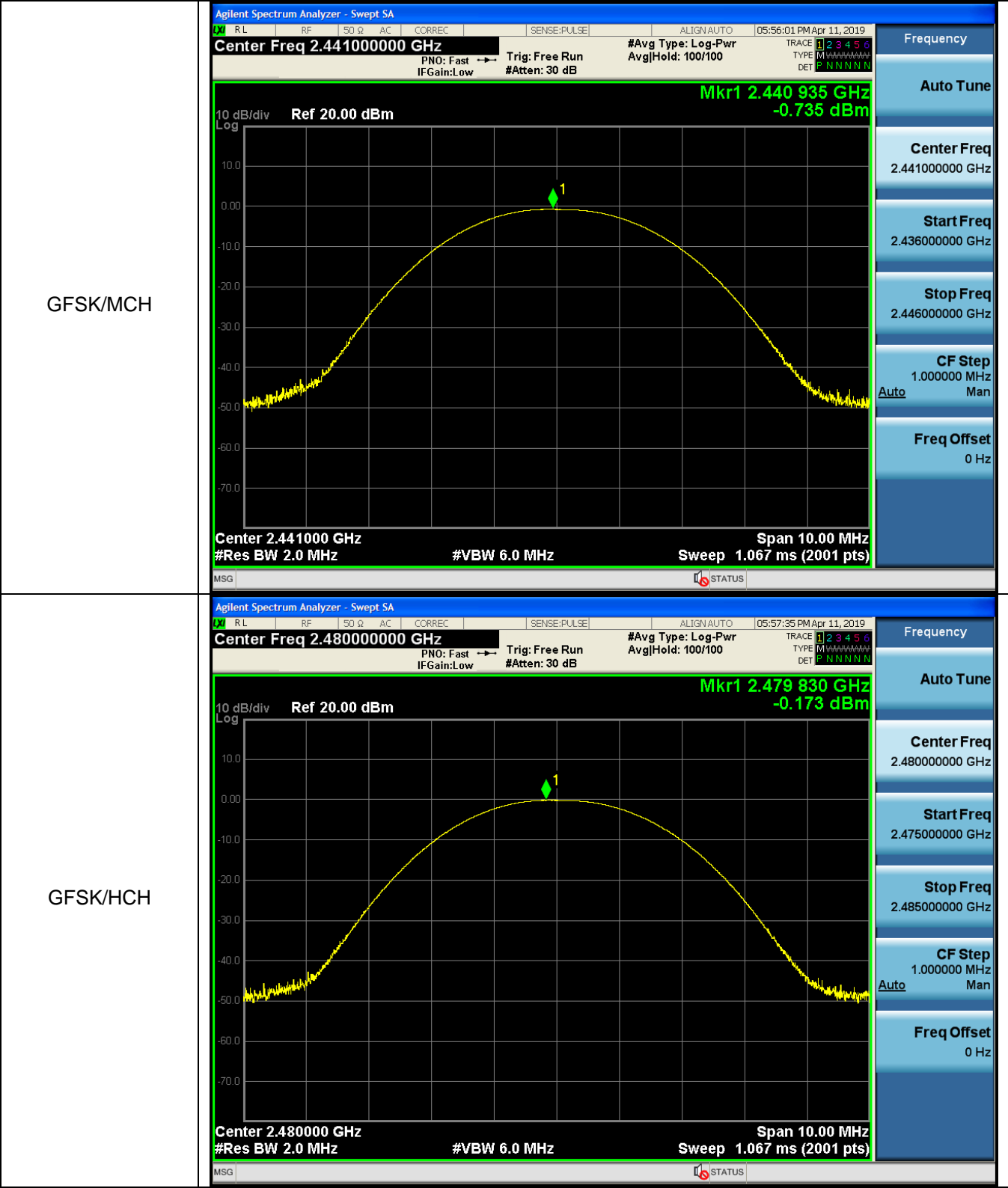


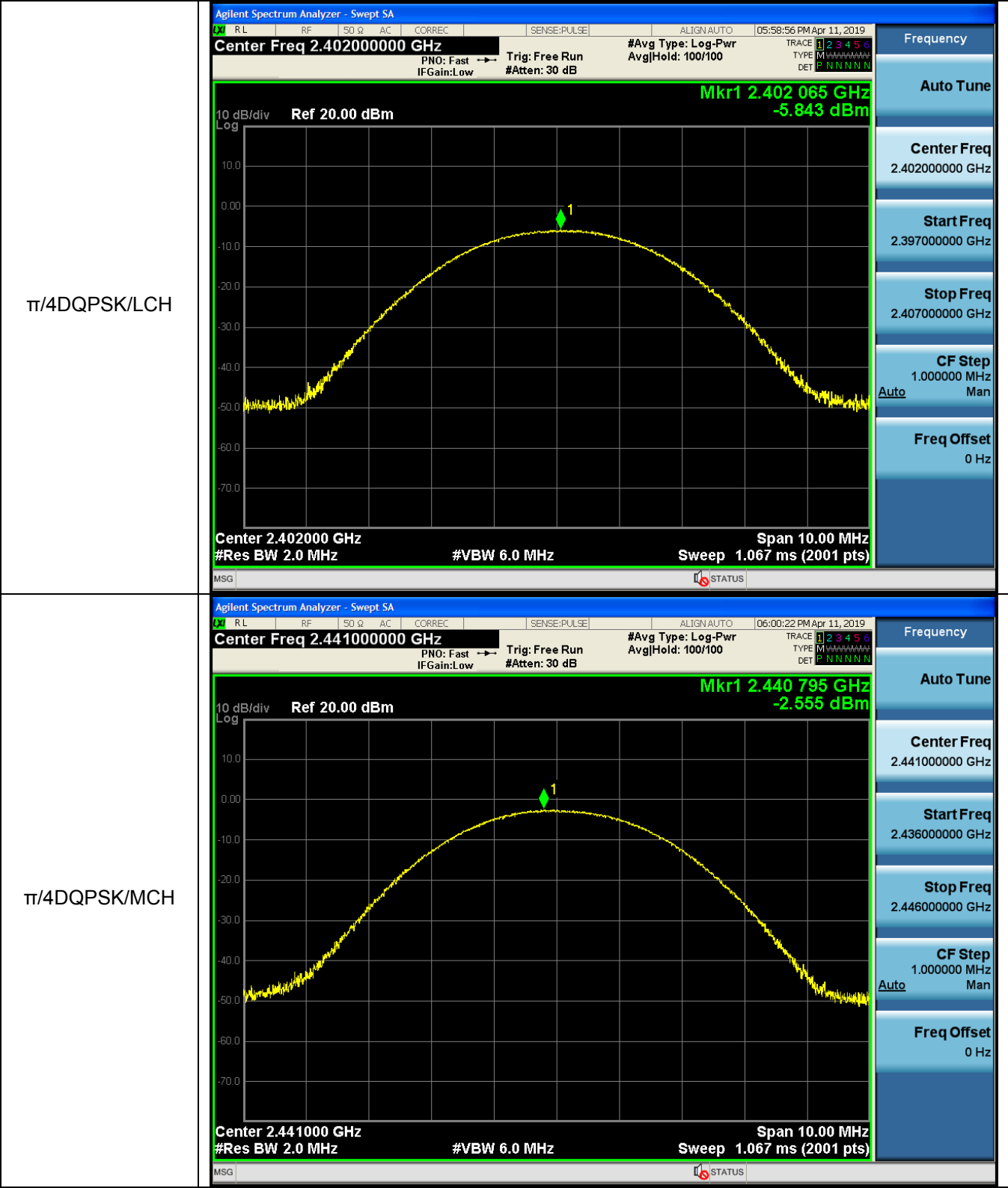
A.5 Conducted Peak Output Power

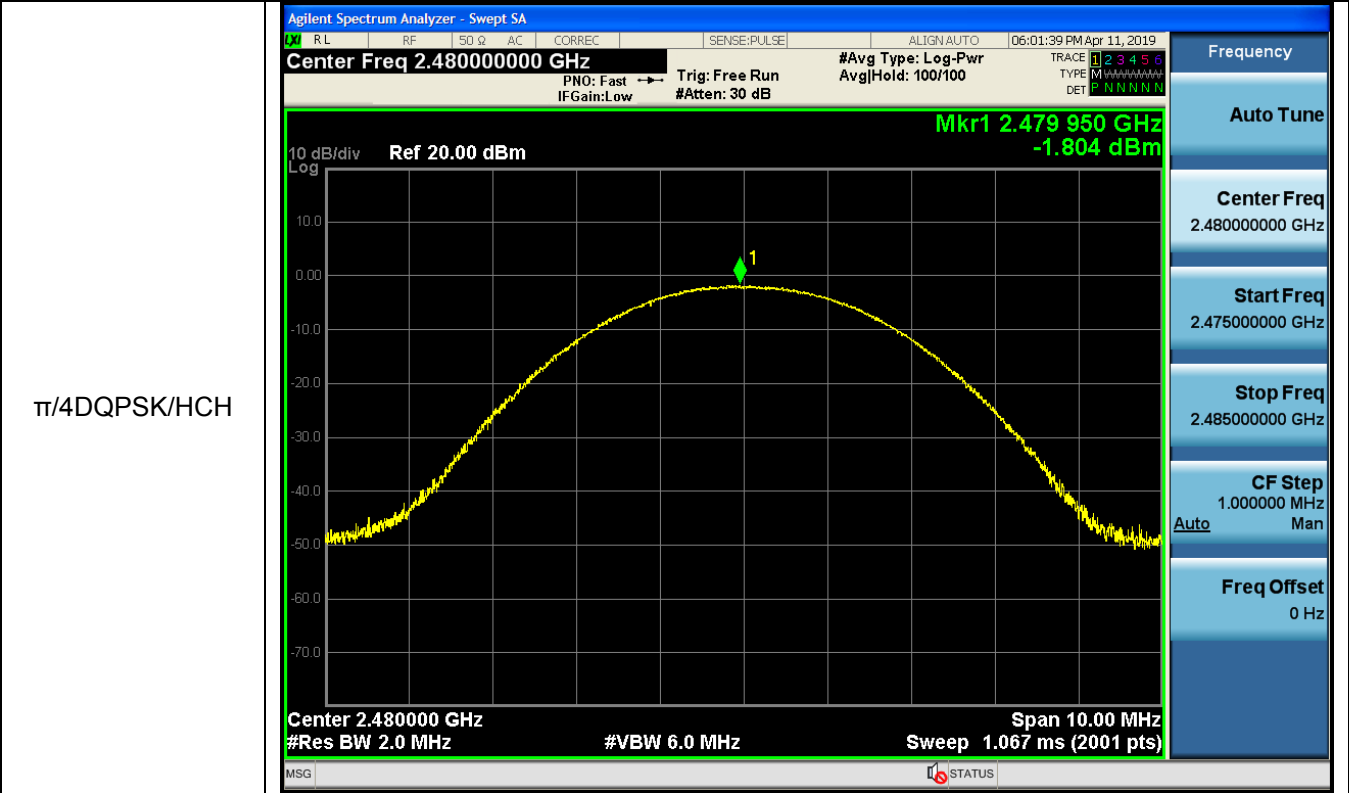
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-3.468	21	PASS
GFSK	MCH	-0.735	21	PASS
GFSK	HCH	-0.173	21	PASS
$\pi/4$ DQPSK	LCH	-5.843	21	PASS
$\pi/4$ DQPSK	MCH	-2.555	21	PASS
$\pi/4$ DQPSK	HCH	-1.804	21	PASS

Test Graph









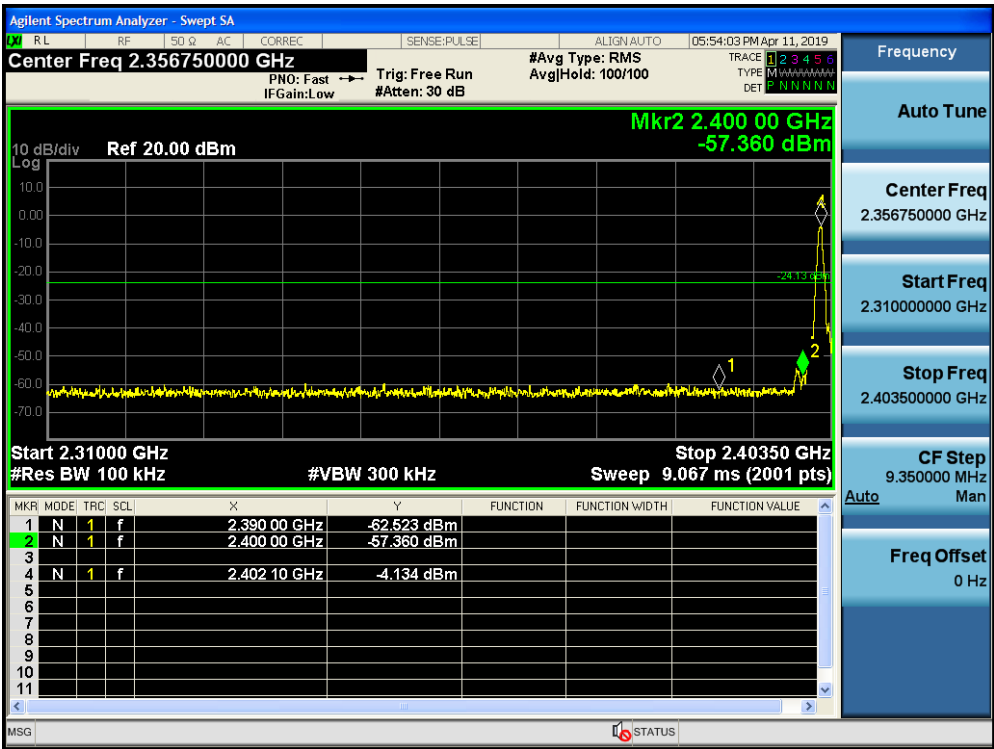
A.6 Band-edge for RF Conducted Emissions

Type	Carrier Frequency(MHz)	Frequency(MHz)	Carrier Frequency Power [dBm]	Bandedge Peak(dBm)	Upper limit(dBm)	Conclusion
1DH5	2402	2390	-4.134	-62.52	-24.134	Pass
1DH5	2402	2400	-4.134	-57.36	-24.134	Pass
1DH5	2480	2483.5	-0.550	-61.52	-20.550	Pass
1DH5	2480	2500	-0.550	-63.78	-20.550	Pass
2DH5	2402	2390	-7.439	-63.86	-27.439	Pass
2DH5	2402	2400	-7.439	-58.84	-27.439	Pass
2DH5	2480	2483.5	-4.282	-61.43	-24.282	Pass
2DH5	2480	2500	-4.282	-61.00	-24.282	Pass
1DH5-Hopping	2402	2390	-5.188	-60.75	-25.188	Pass
1DH5-Hopping	2402	2400	-5.188	-62.40	-25.188	Pass
1DH5-Hopping	2480	2483.5	-3.354	-60.69	-23.354	Pass
1DH5-Hopping	2480	2500	-3.354	-56.50	-23.354	Pass
2DH5-Hopping	2402	2390	-4.734	-61.22	-24.734	Pass
2DH5-Hopping	2402	2400	-4.734	-60.78	-24.734	Pass
2DH5-Hopping	2480	2483.5	-3.487	-61.42	-23.487	Pass
2DH5-Hopping	2480	2500	-3.487	-57.34	-23.487	Pass

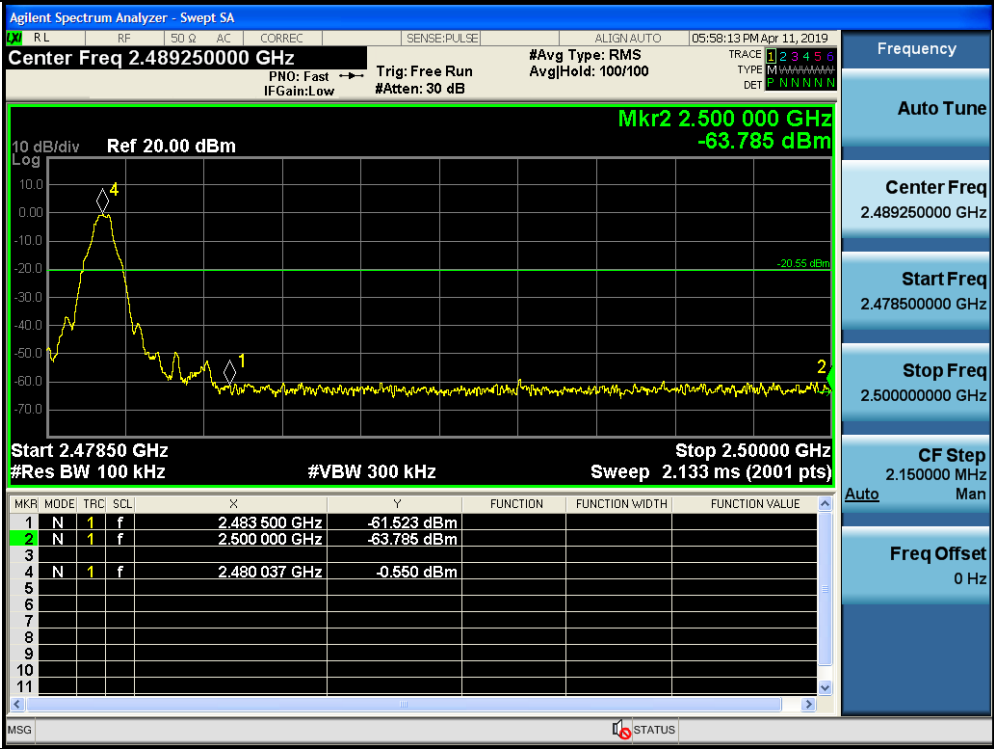
Test Graph

Graphs

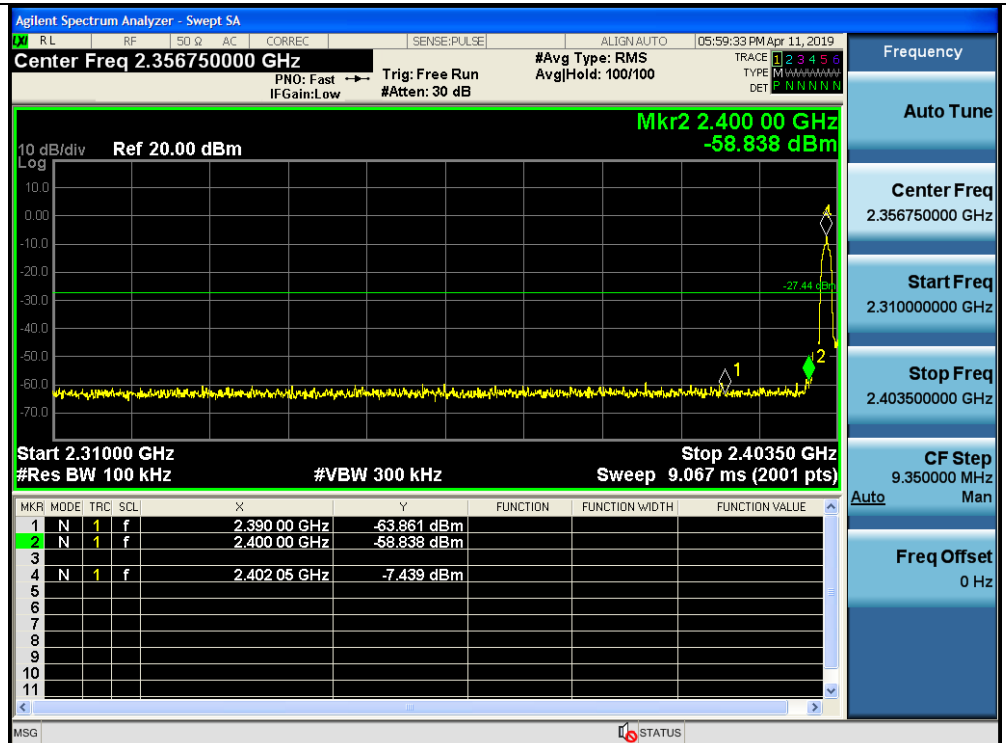
GFSK/LCH/No Hop



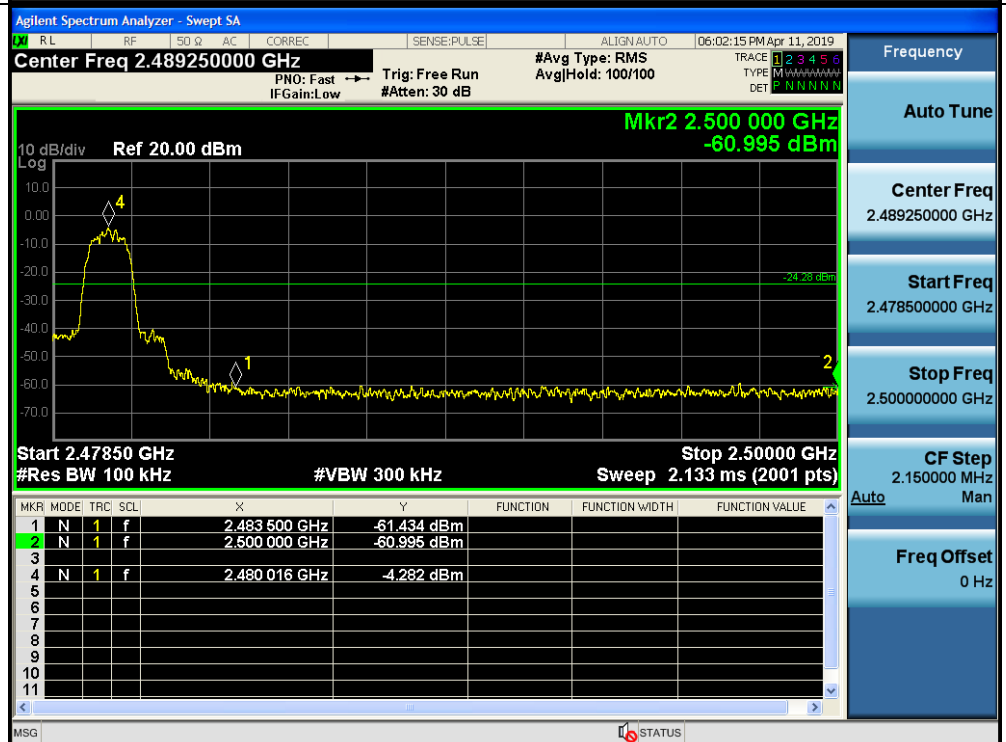
GFSK/HCH/No Hop



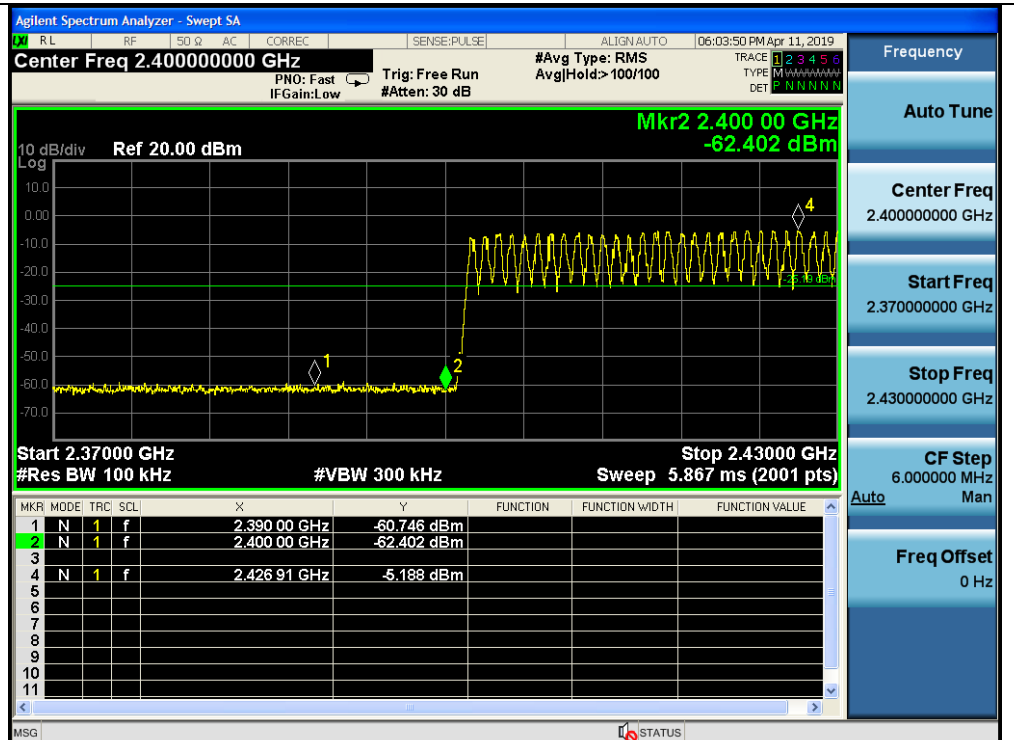
π /4DQPSK/LCH/No
Hop



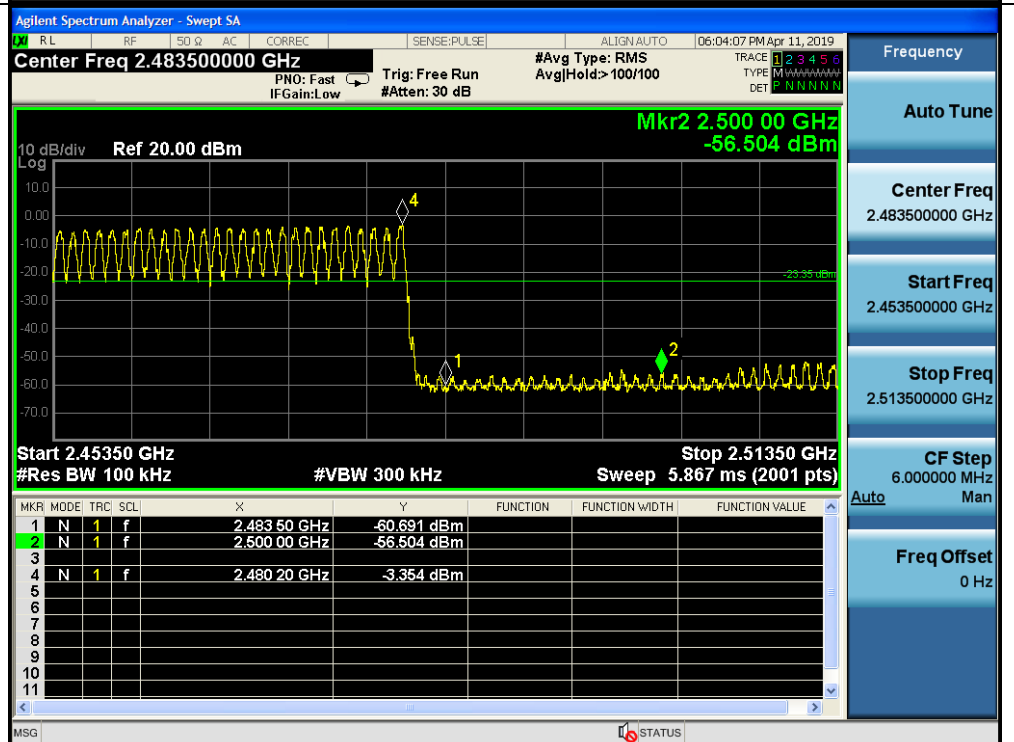
π /4DQPSK/HCH/No
Hop



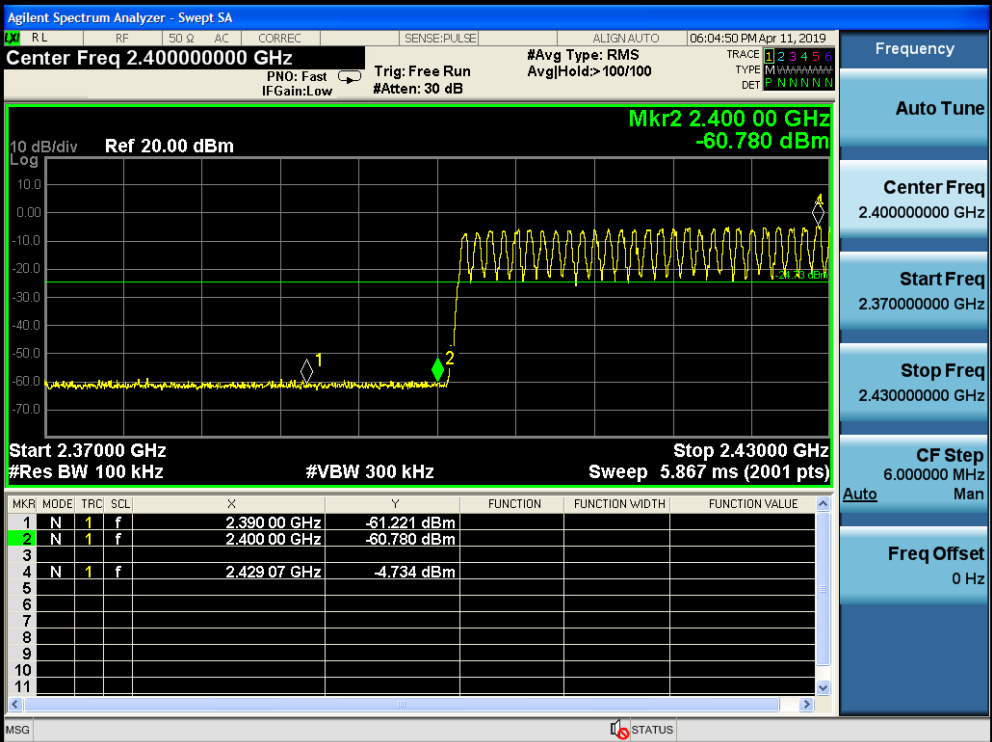
GFSK/LCH/Hop



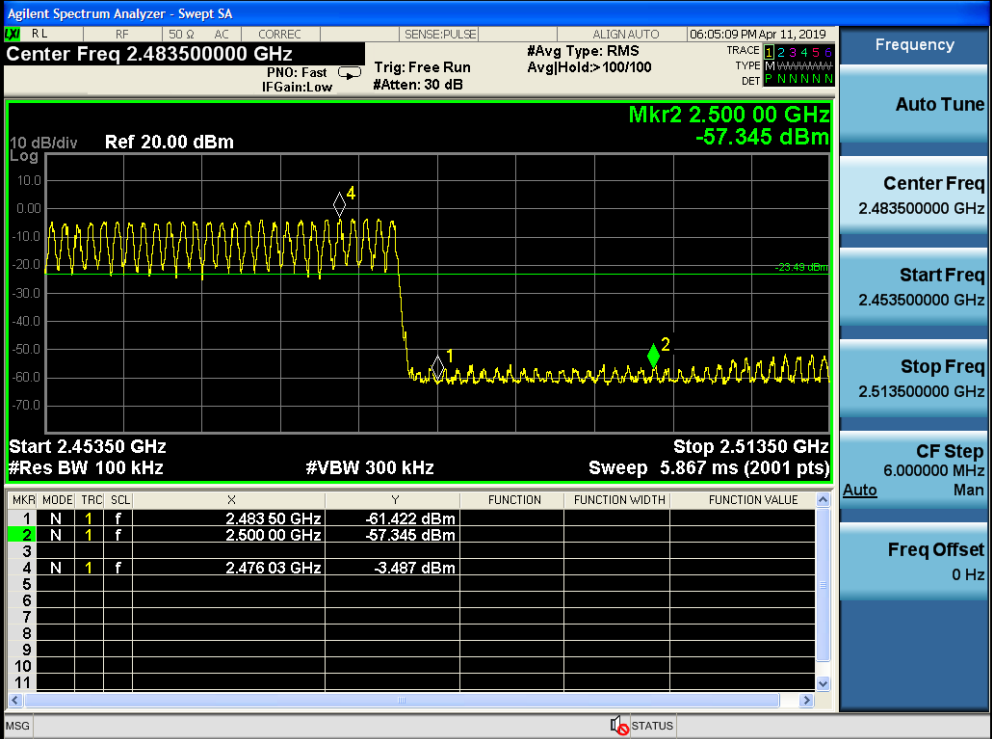
GFSK/HCH/Hop



π /4DQPSK/LCH/Hop

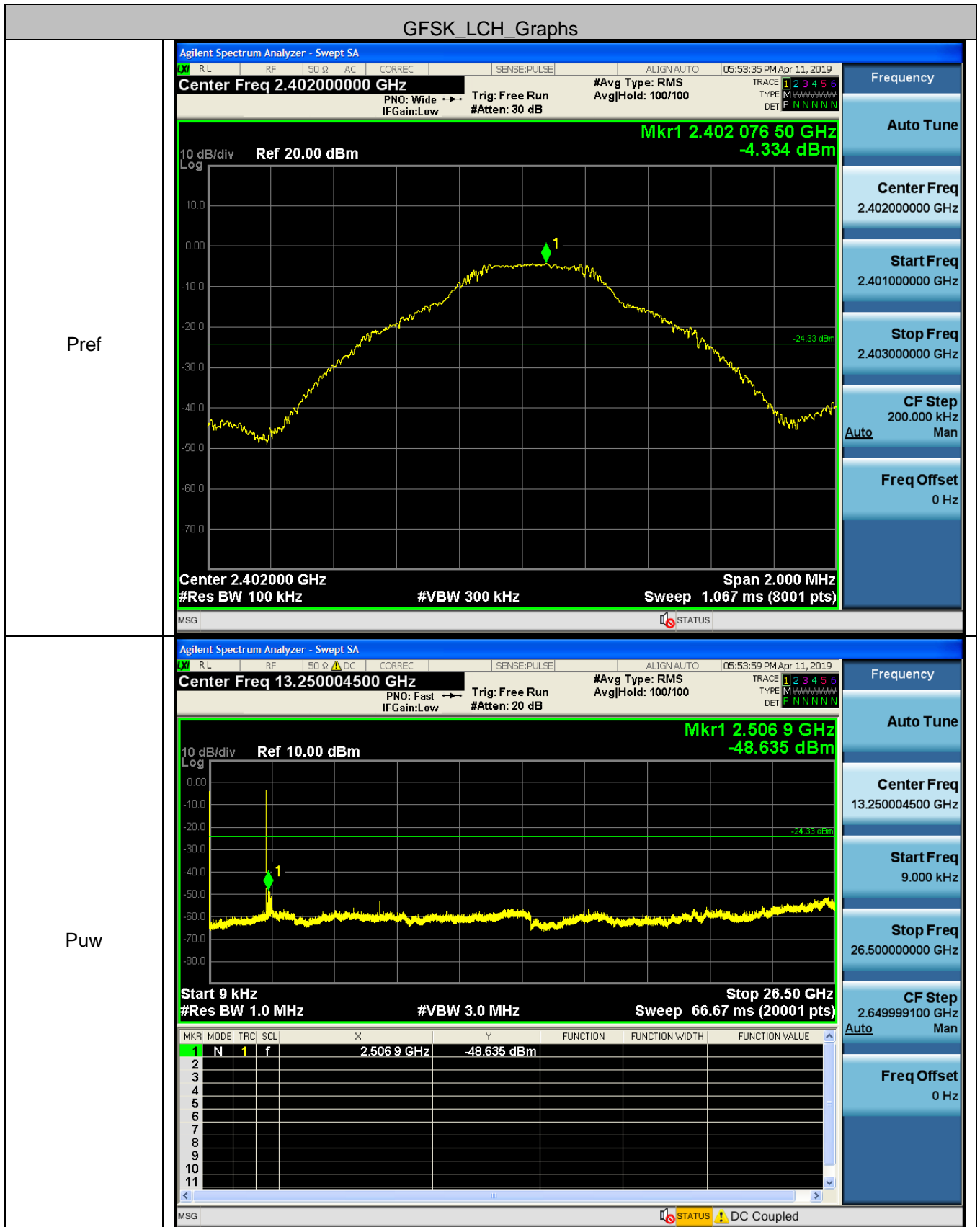


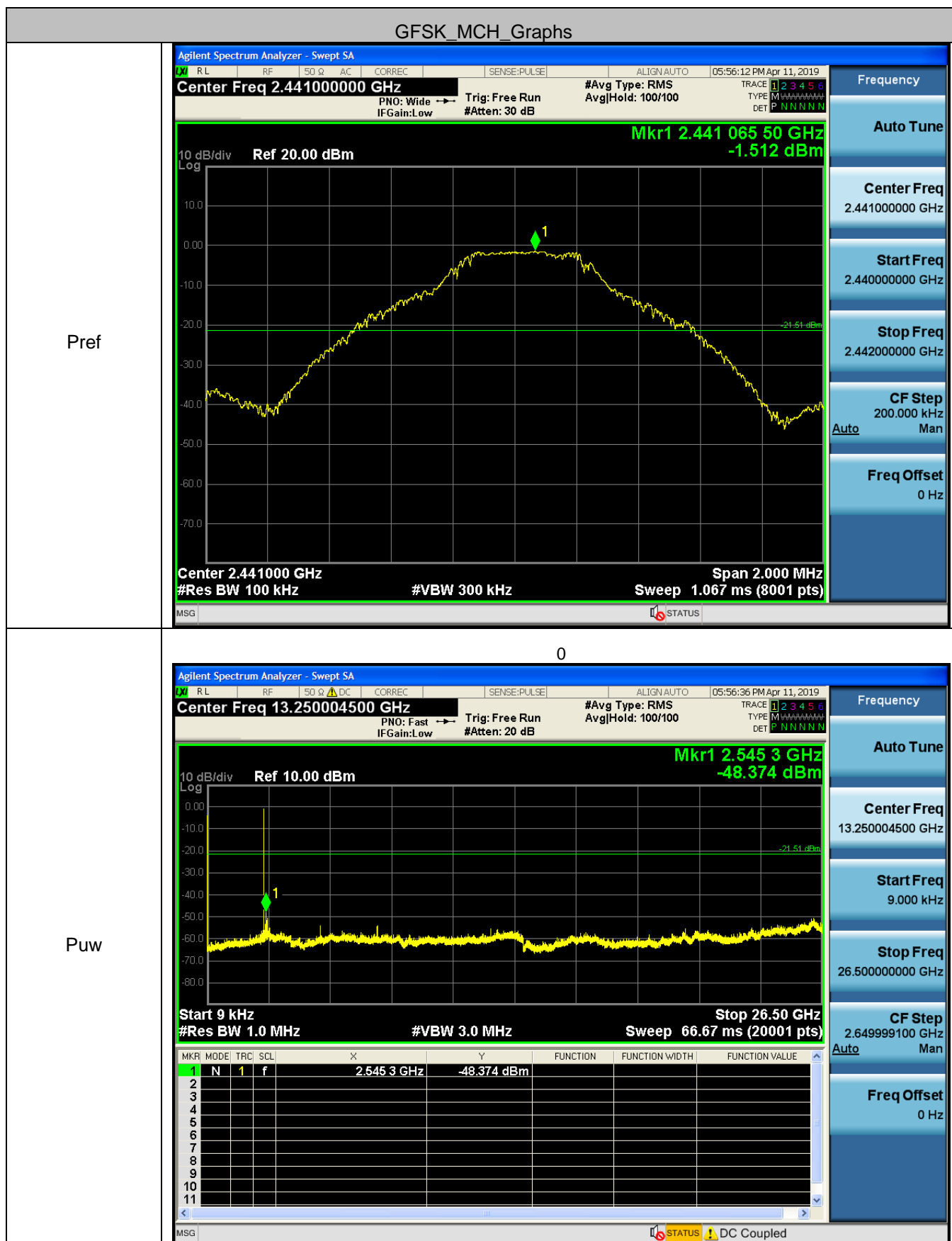
π /4DQPSK/HCH/Hop



A.7 RF Conducted Spurious Emissions

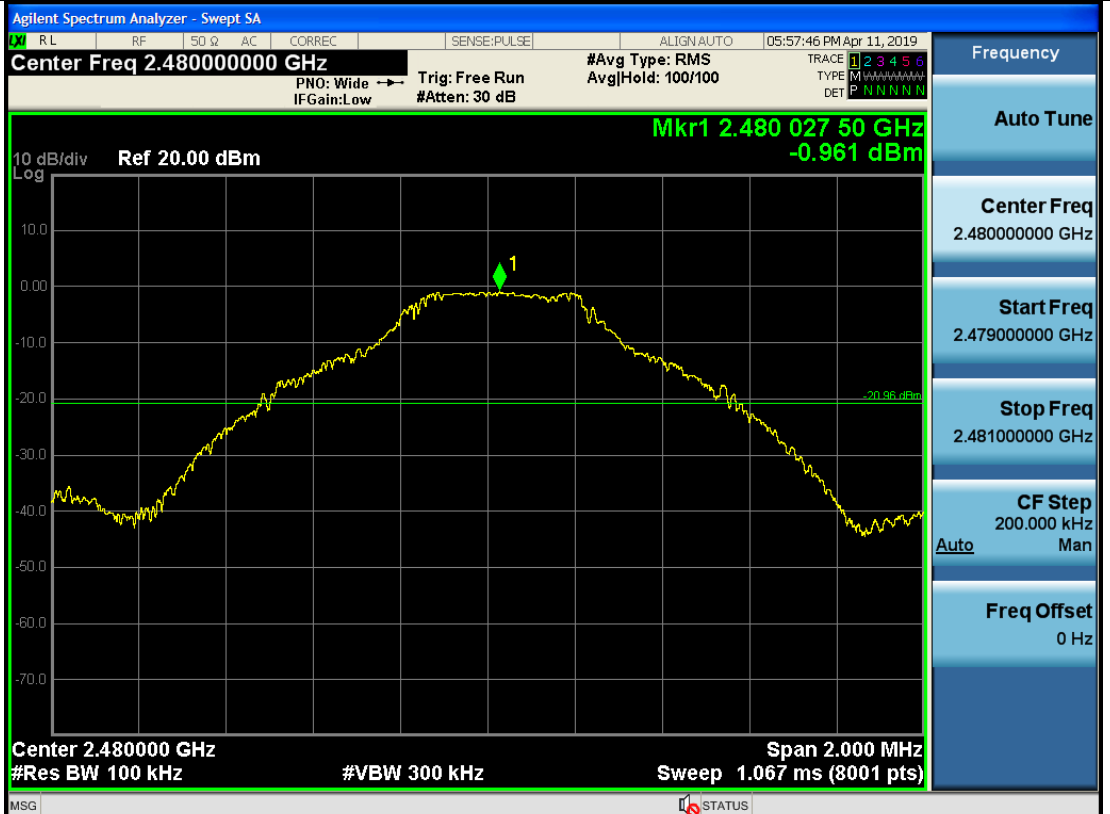
Test Graph



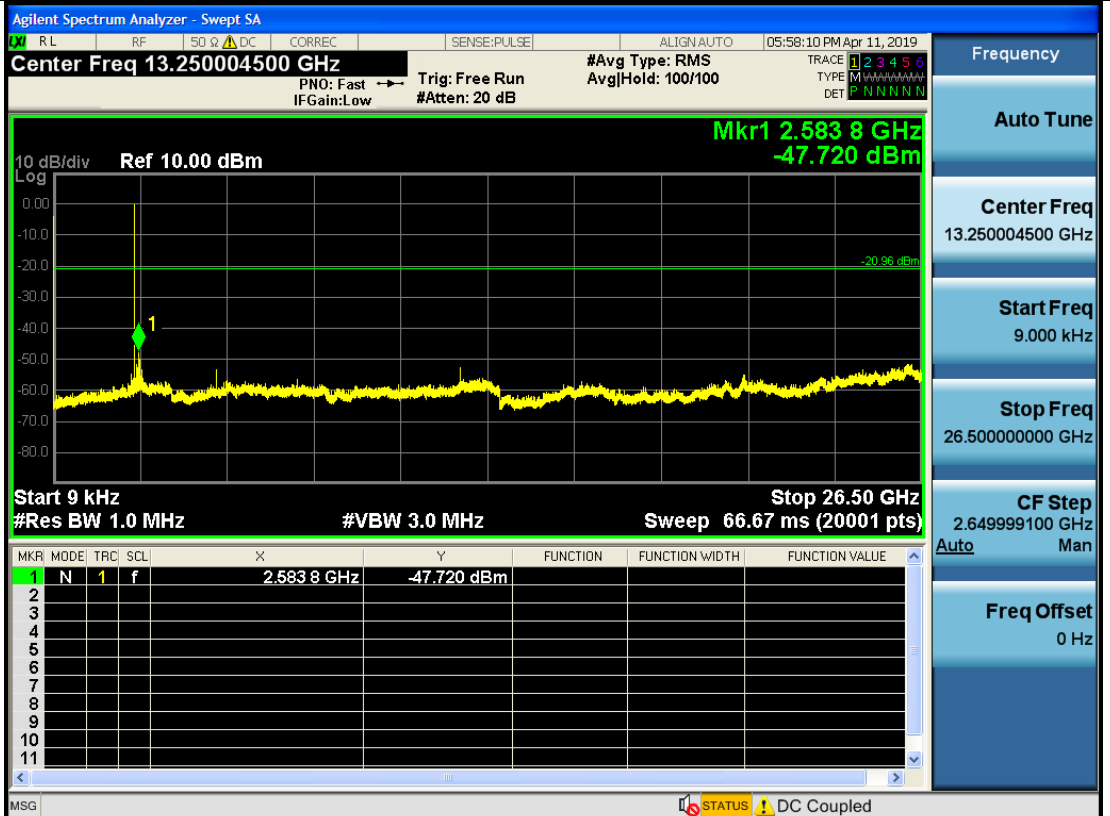


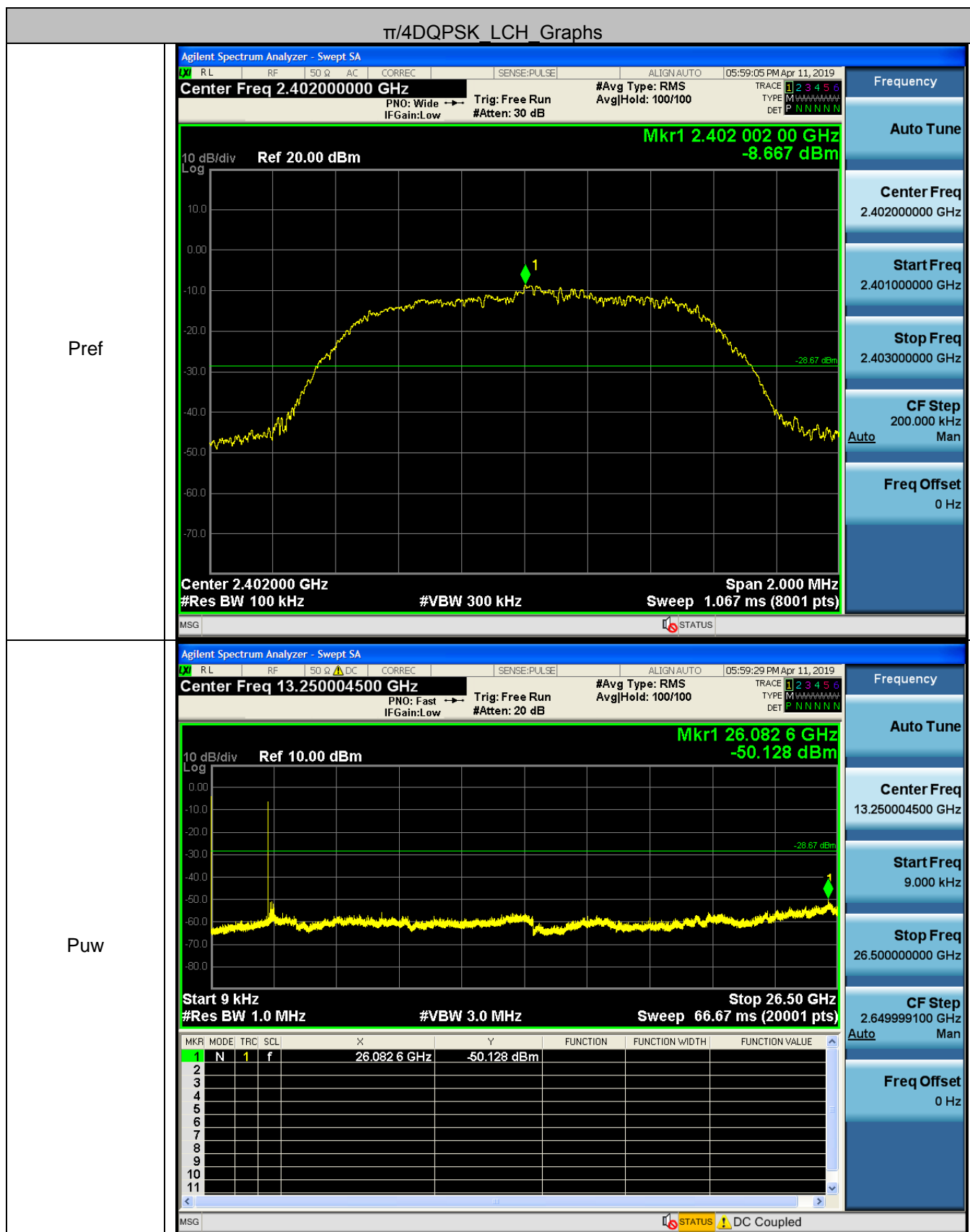
GFSK_HCH_Graphs

Pref



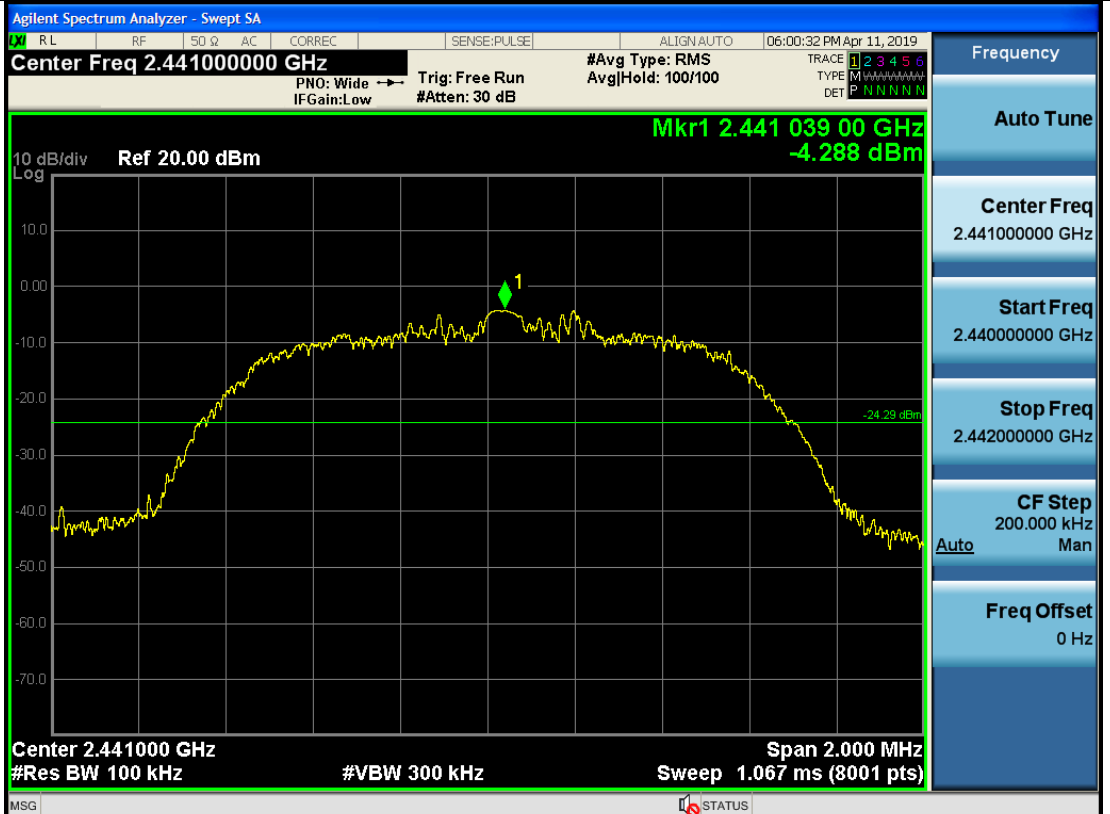
Puw



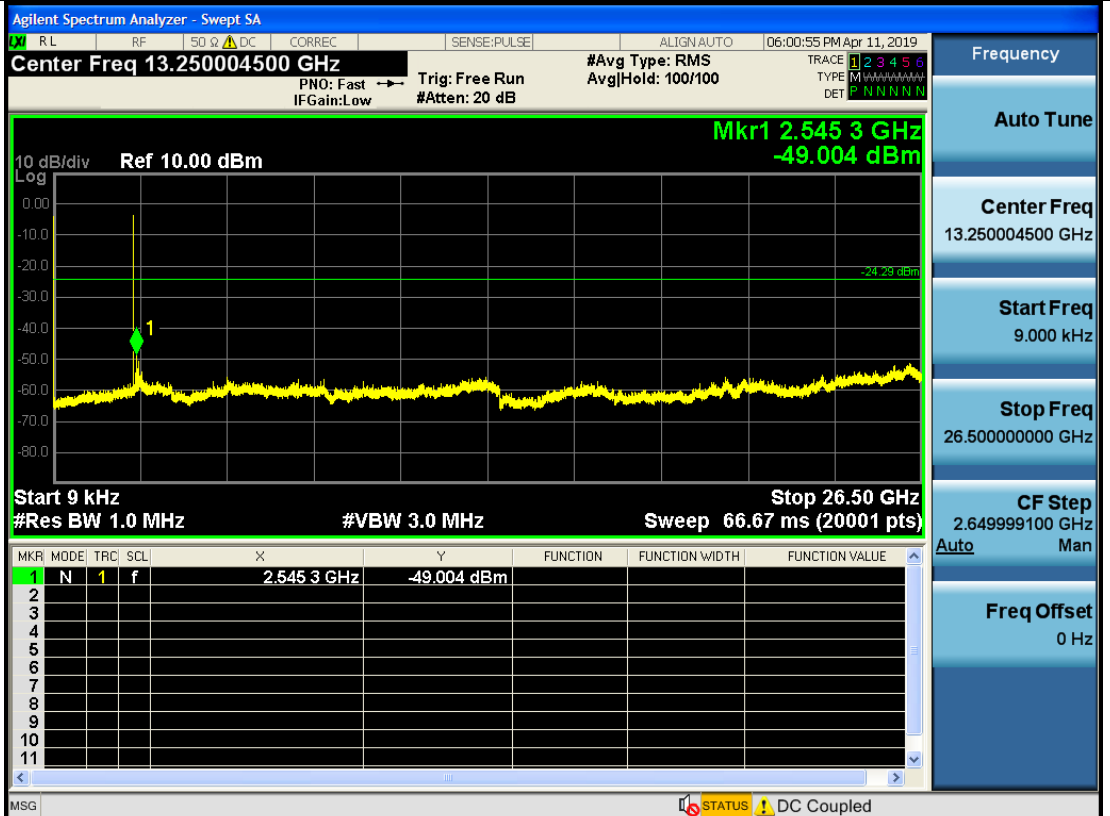


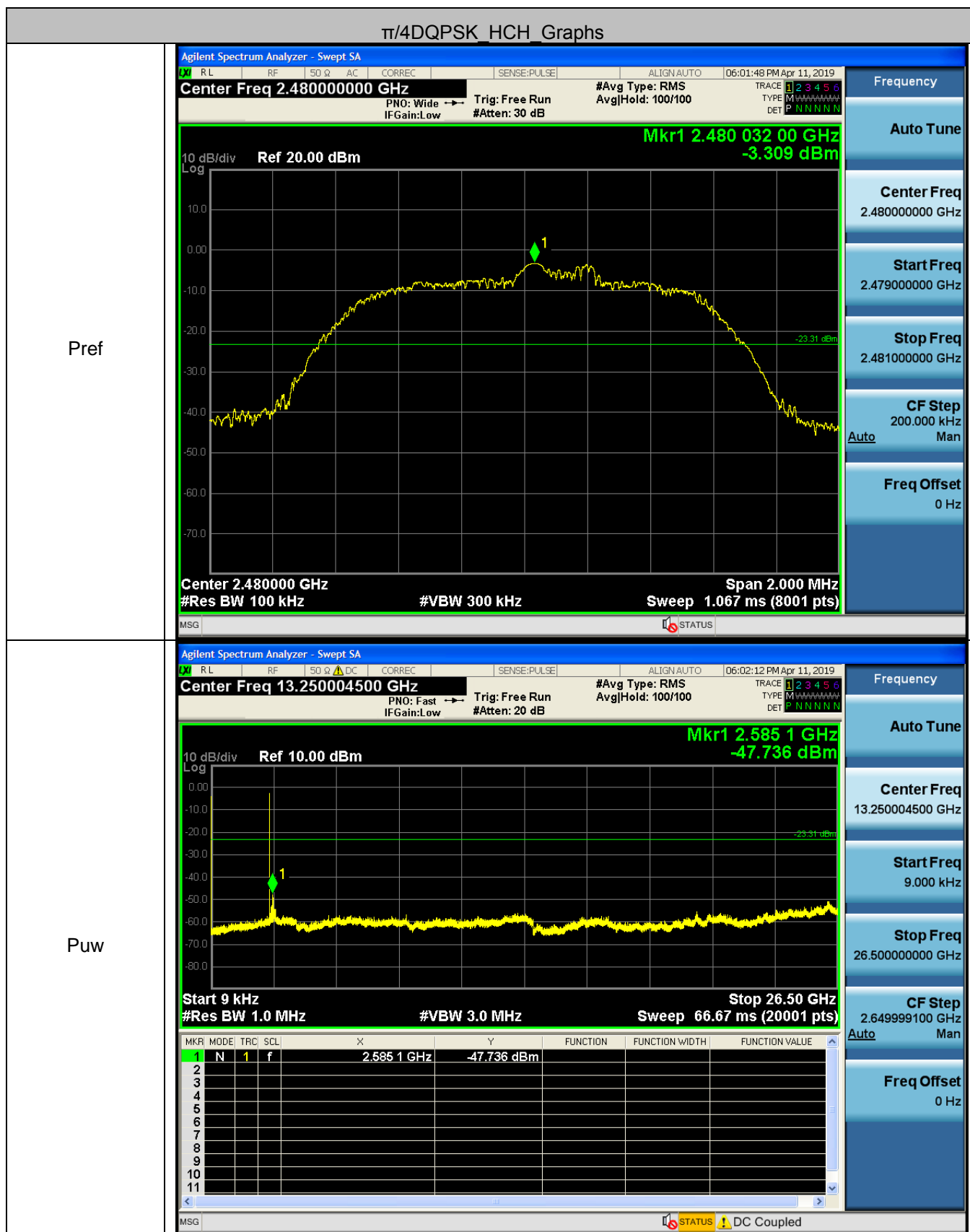
$\pi/4$ DQPSK MCH_Graphs

Pref



Puw

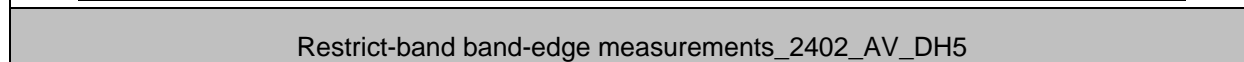




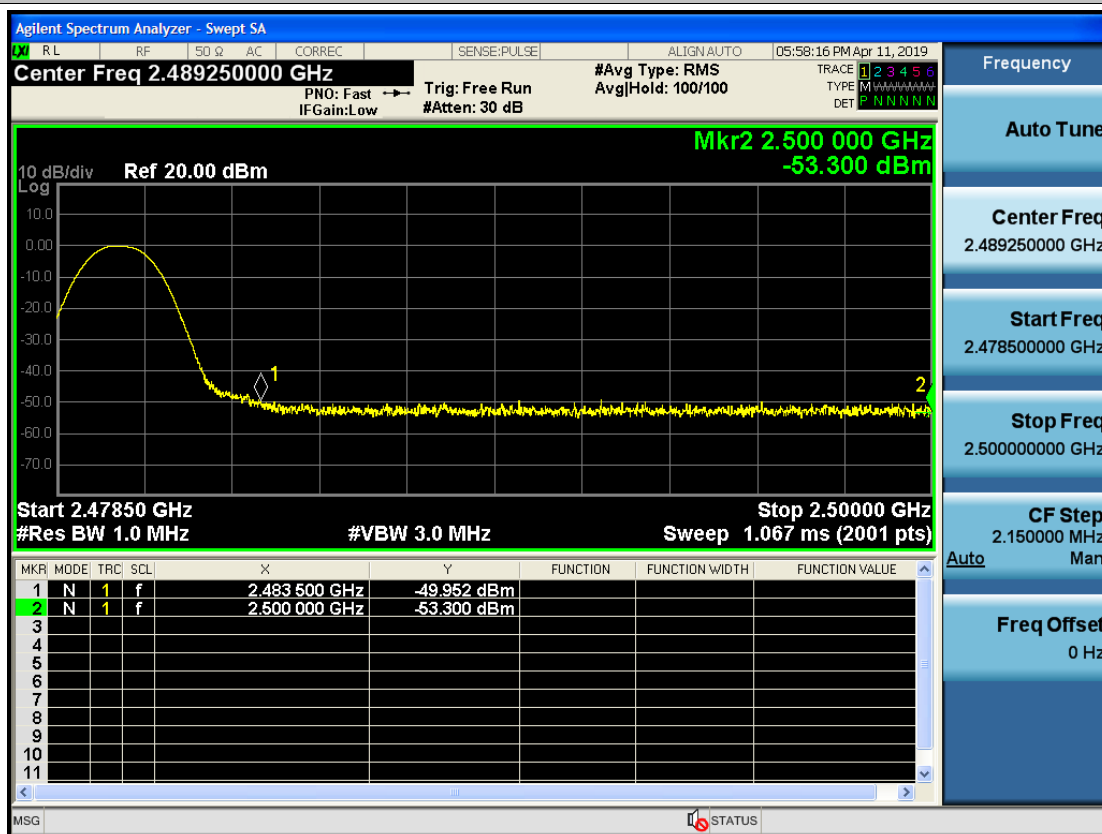
A.8 Restrict-band measurements

Type	Carrier Frequency (MHz)	Frequency (MHz)	Gain	Ground Factor	Peak Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Average Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Conclusion
1DH5	2402	2310	2.00	0.00	-51.74	45.46	74	-60.76	36.44	38.42	Pass
1DH5	2402	2390	2.00	0.00	-53.56	43.64	74	-60.47	36.73	38.85	Pass
1DH5	2480	2483.5	2.00	0.00	-49.95	47.25	74	-56.5	40.7	45.33	Pass
1DH5	2480	2500	2.00	0.00	-53.3	43.9	74	-59.92	37.28	39.58	Pass
2DH5	2402	2310	2.00	0.00	-53.86	43.34	74	-60.79	36.41	38.45	Pass
2DH5	2402	2390	2.00	0.00	-53.34	43.86	74	-60.52	36.68	38.79	Pass
2DH5	2480	2483.5	2.00	0.00	-50.36	46.84	74	-57.61	39.59	43.37	Pass
2DH5	2480	2500	2.00	0.00	-53.33	43.87	74	-59.9	37.3	39.36	Pass

Restrict-band band-edge measurements_2402_PEAK_DH5



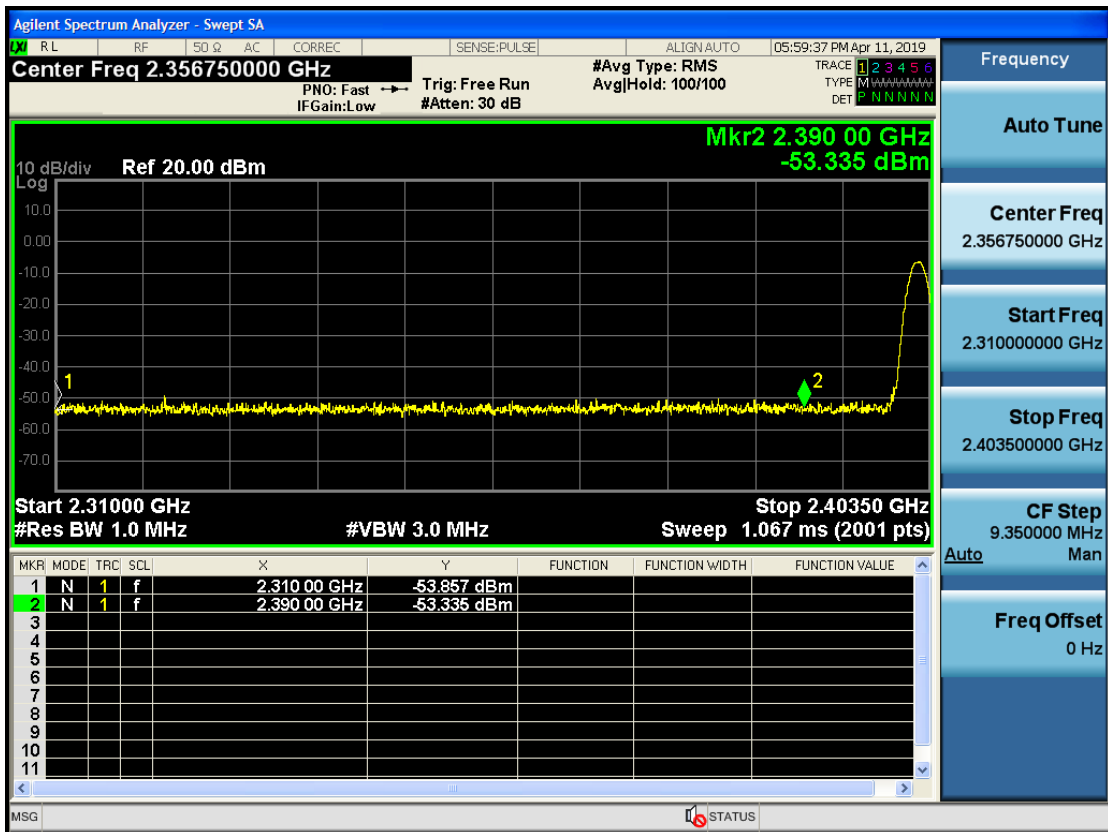
Restrict-band band-edge measurements 2480 PEAK DH5



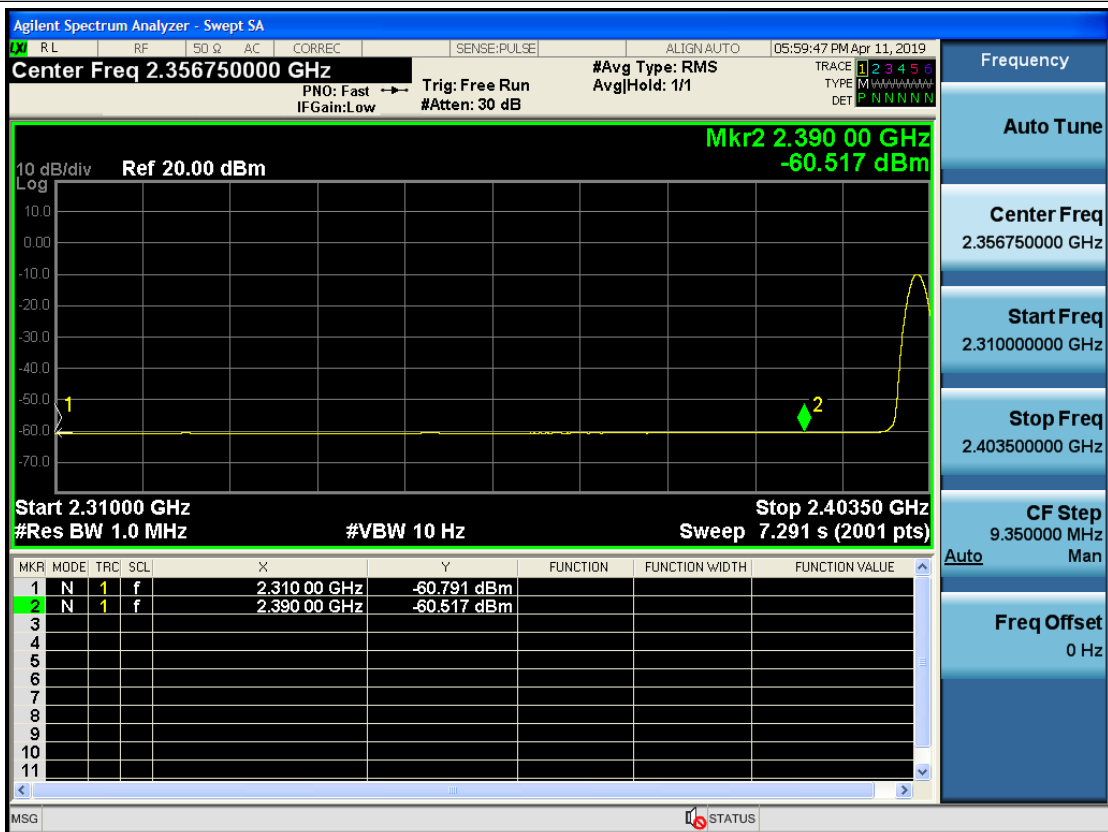
Restrict-band band-edge measurements_2480_AV_DH5



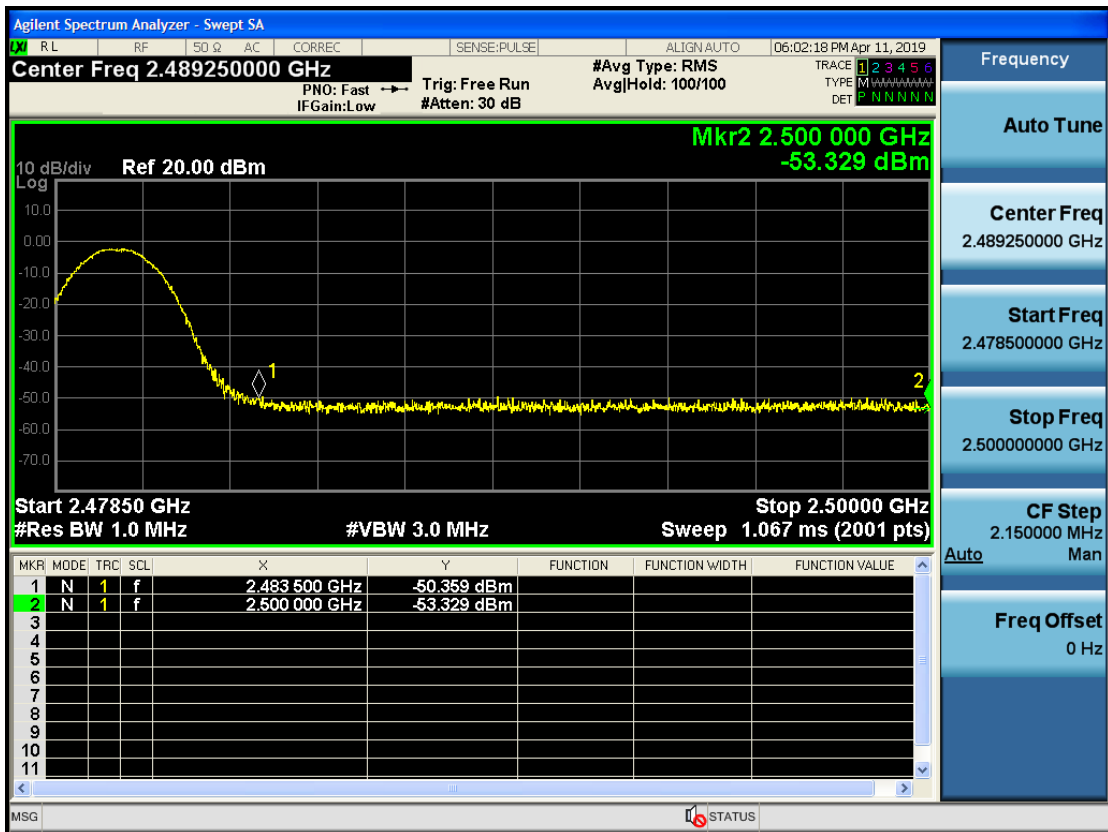
Restrict-band band-edge measurements_2402_PEAK_2DH5



Restrict-band band-edge measurements_2402_AV_2DH5



Restrict-band band-edge measurements_2480_PEAK_2DH5



Restrict-band band-edge measurements_2480_AV_2DH5

