

Appendix A

RF Test Data for 2.4G (Conducted Measurement)

Product Name: 2.4G wireless microphone

Trade Mark: BOYA, MOVO

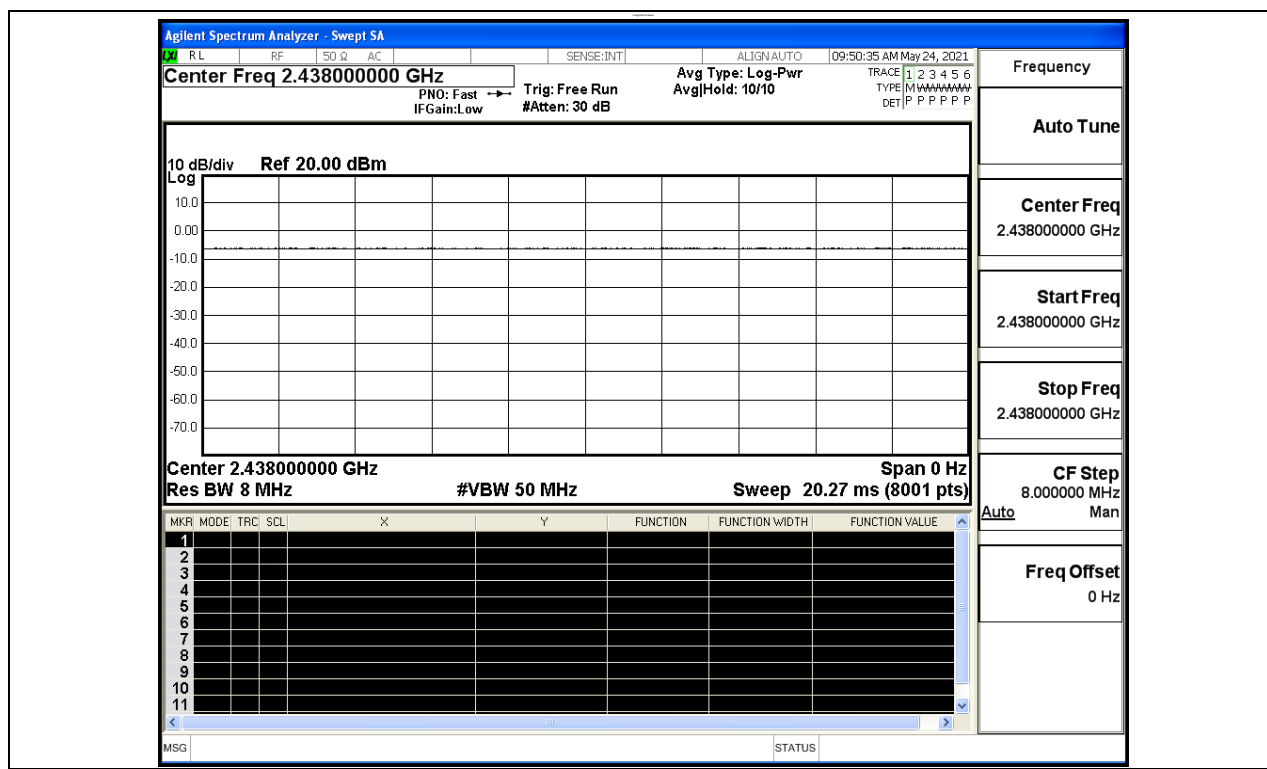
Test Model: BY-WM4 PRO RXU

Environmental Conditions

Temperature:	22.3° C
Relative Humidity:	51.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan

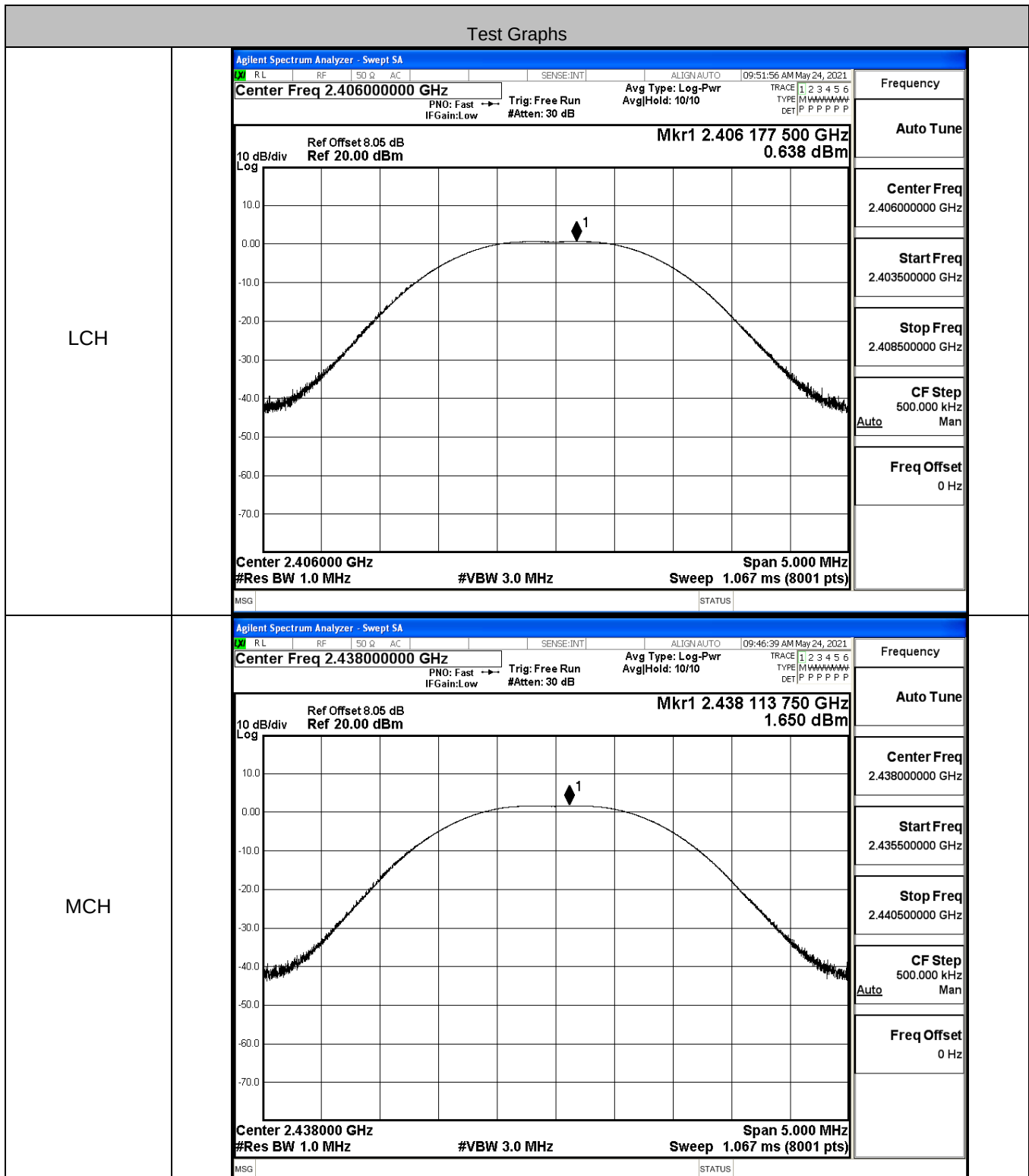
A.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
GFSK	2438	Ant1	100	PASS



A.2 Maximum Conducted Peak Output Power

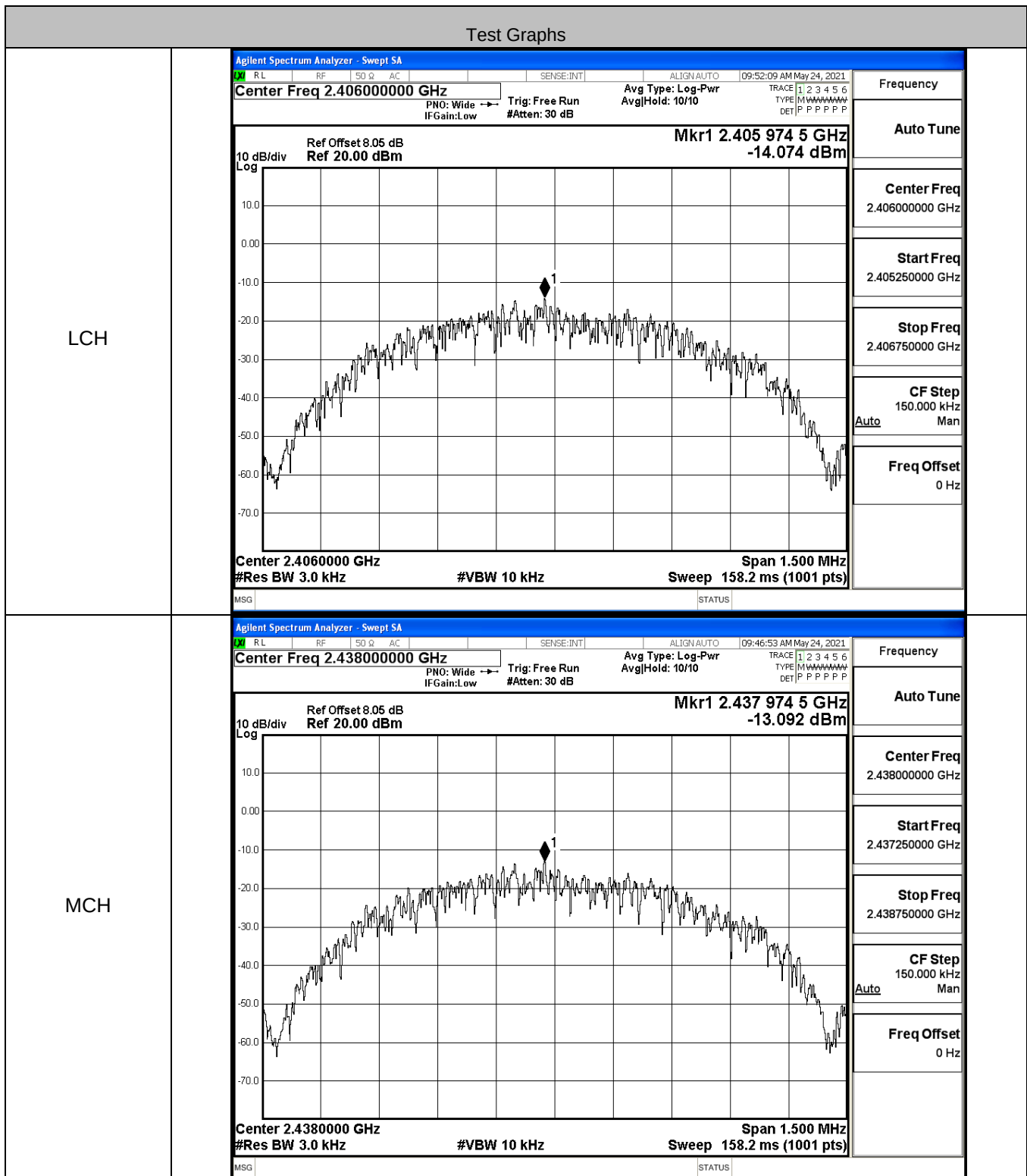
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
GFSK	LCH	0.638	30	PASS
GFSK	MCH	1.65	30	PASS
GFSK	HCH	0.353	30	PASS



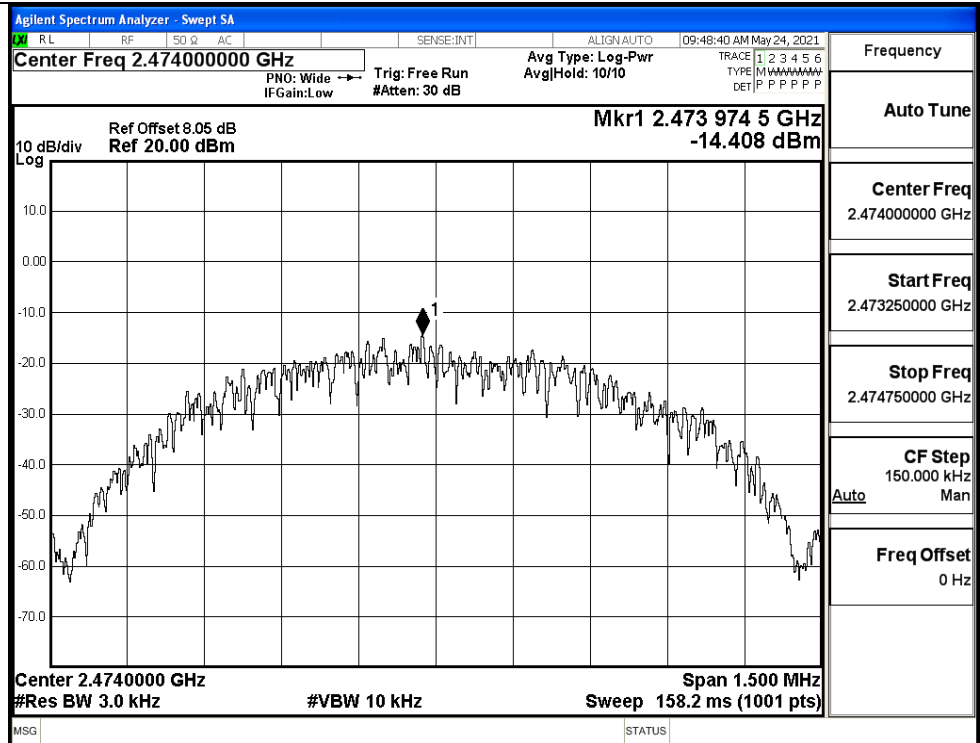


A.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
GFSK	LCH	-14.074	8	PASS
GFSK	MCH	-13.092	8	PASS
GFSK	HCH	-14.408	8	PASS

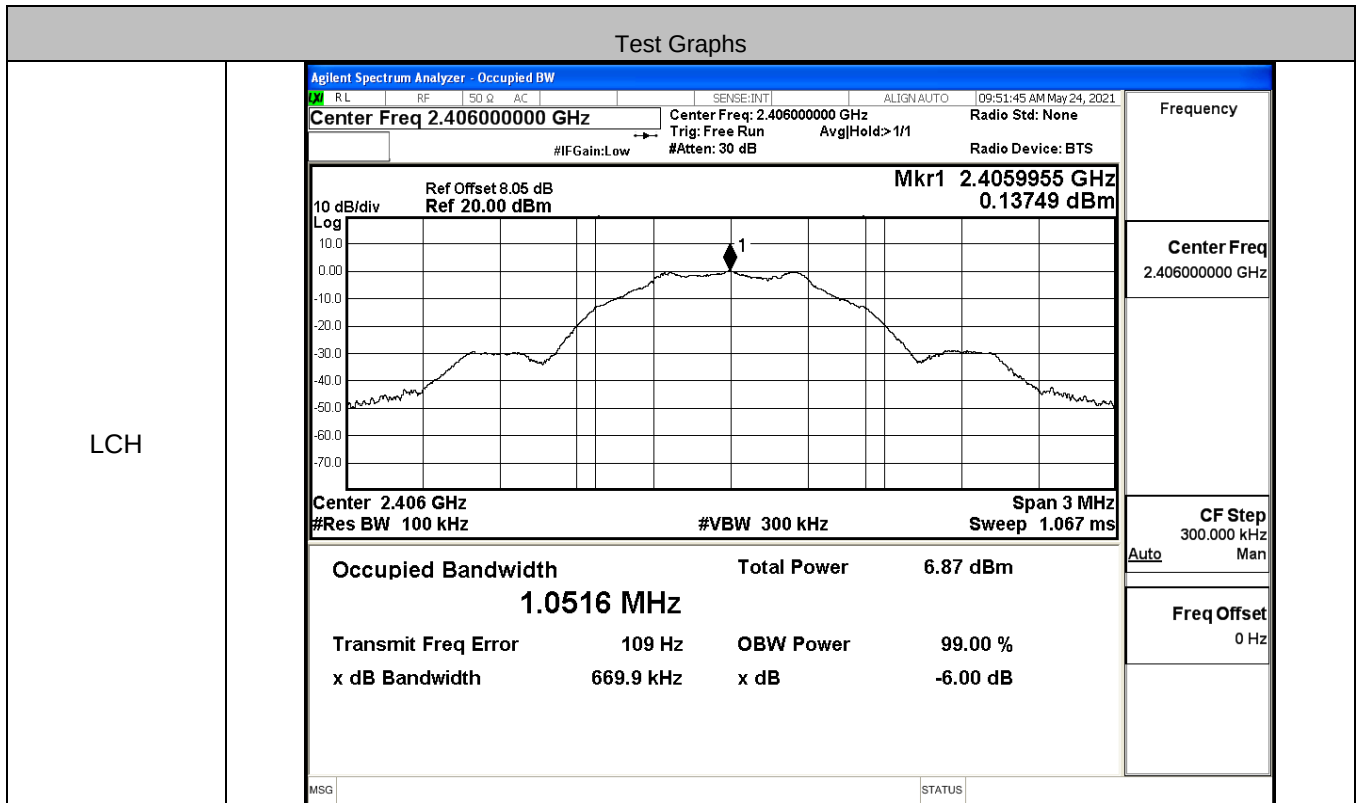


HCH

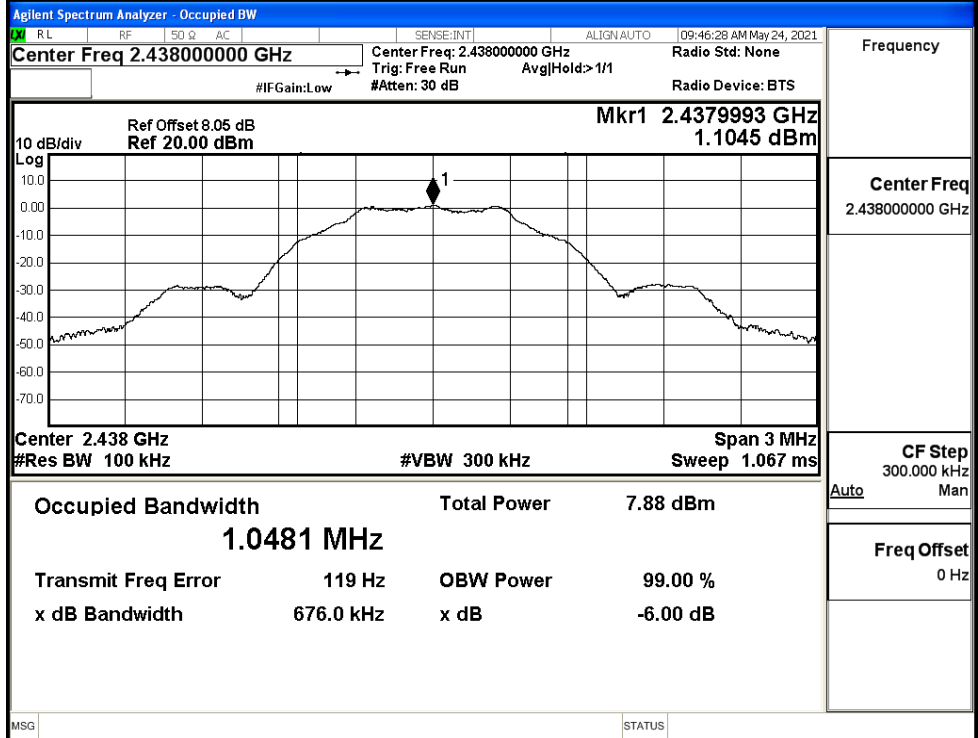


A.4 6dB Bandwidth & A.5 99% Occupied Bandwidth Measurement

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	99% Occupied Bandwidth Measurement [MHz]	Verdict
GFSK	LCH	0.6699	≥ 0.5	1.0516	PASS
GFSK	MCH	0.6760	≥ 0.5	1.0481	PASS
GFSK	HCH	0.6696	≥ 0.5	1.0479	PASS



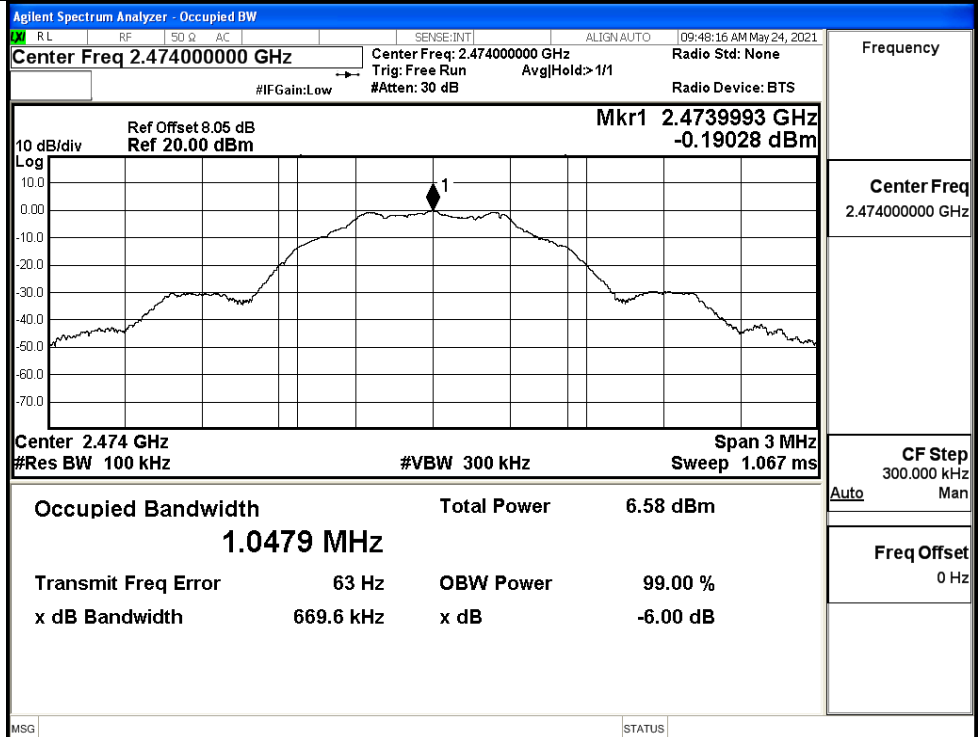
MCH



Frequency

Center Freq
2.438000000 GHzCF Step
300.000 kHz
Auto ManFreq Offset
0 Hz

HCH

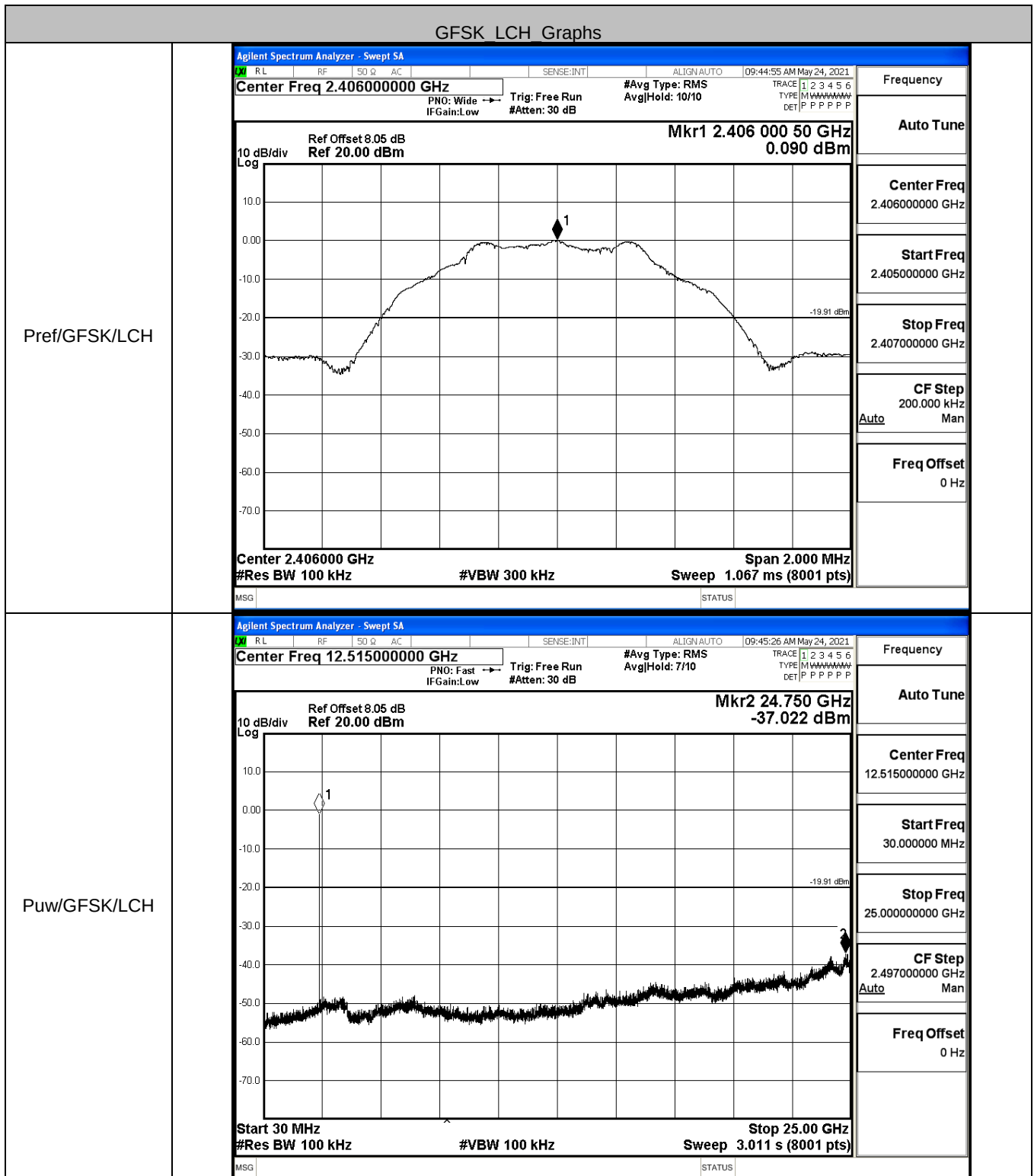


Frequency

Center Freq
2.474000000 GHzCF Step
300.000 kHz
Auto ManFreq Offset
0 Hz

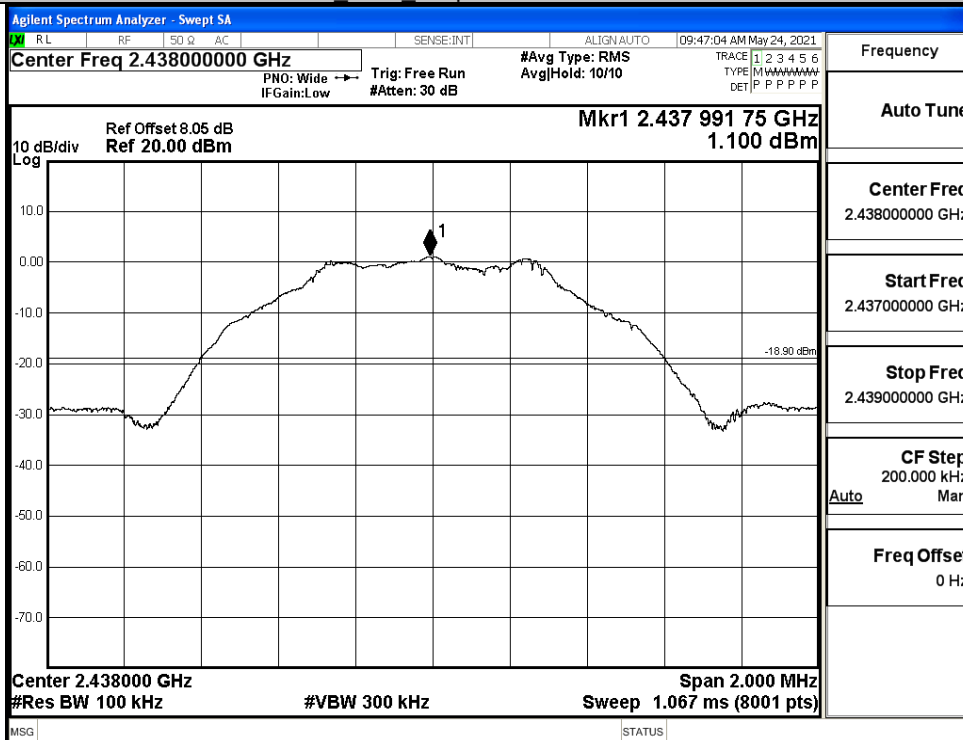
A.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	0.09	-37.022	-19.910	PASS
GFSK	MCH	1.1	-38.007	-18.900	PASS
GFSK	HCH	-0.199	-37.610	-20.199	PASS

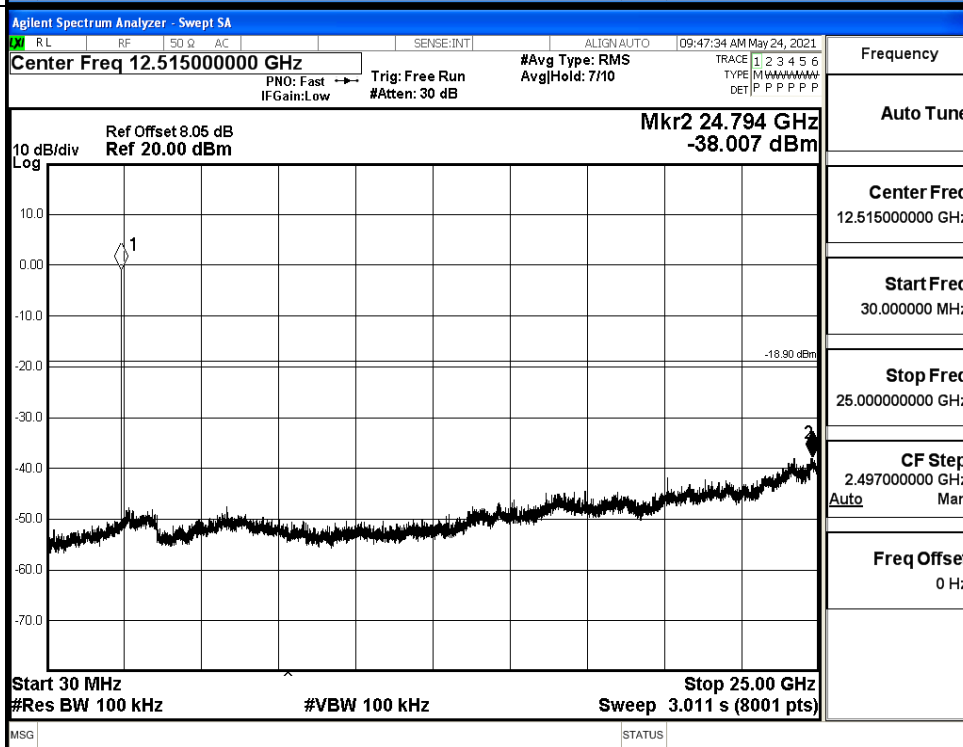


GFSK MCH Graphs

Pref/GFSK/MCH

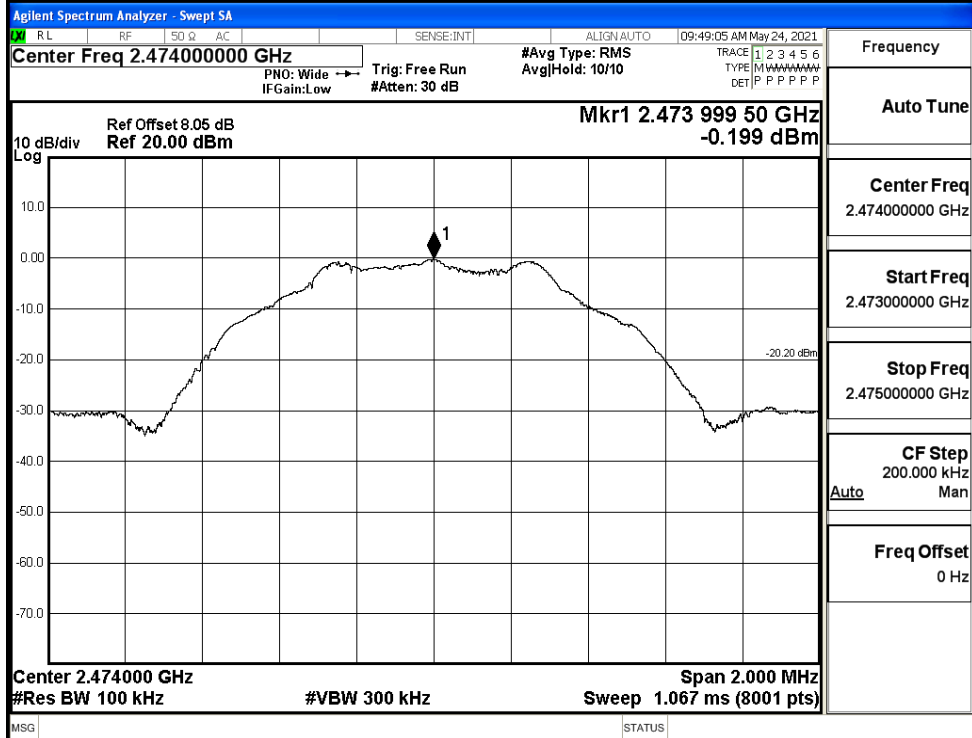


Puw/GFSK/MCH

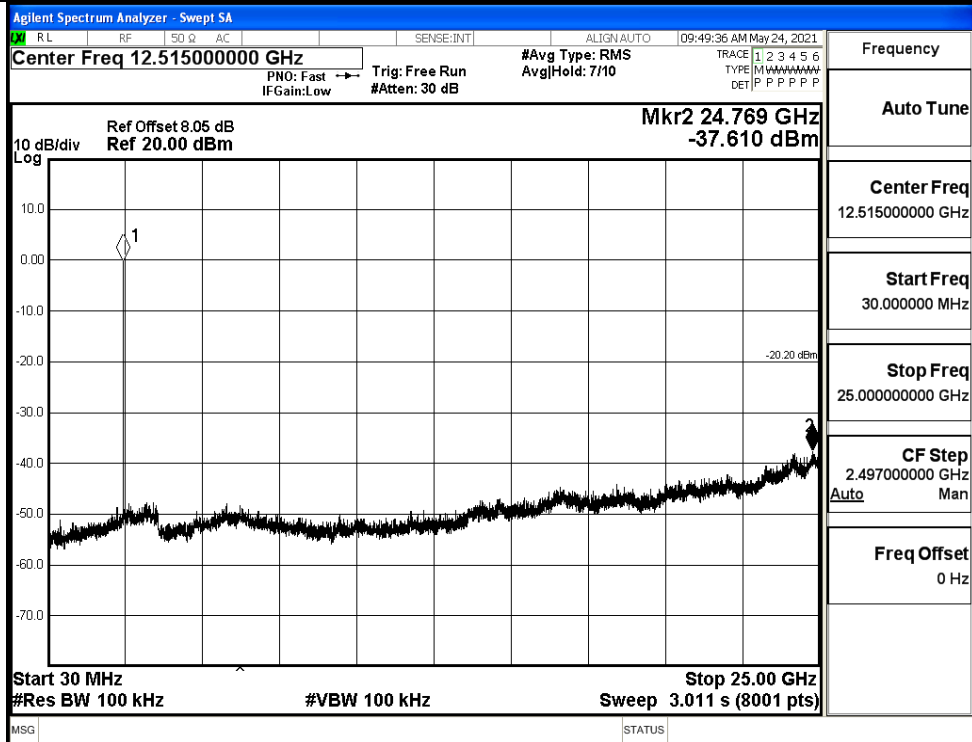


GFSK HCH Graphs

Pref/GFSK/HCH

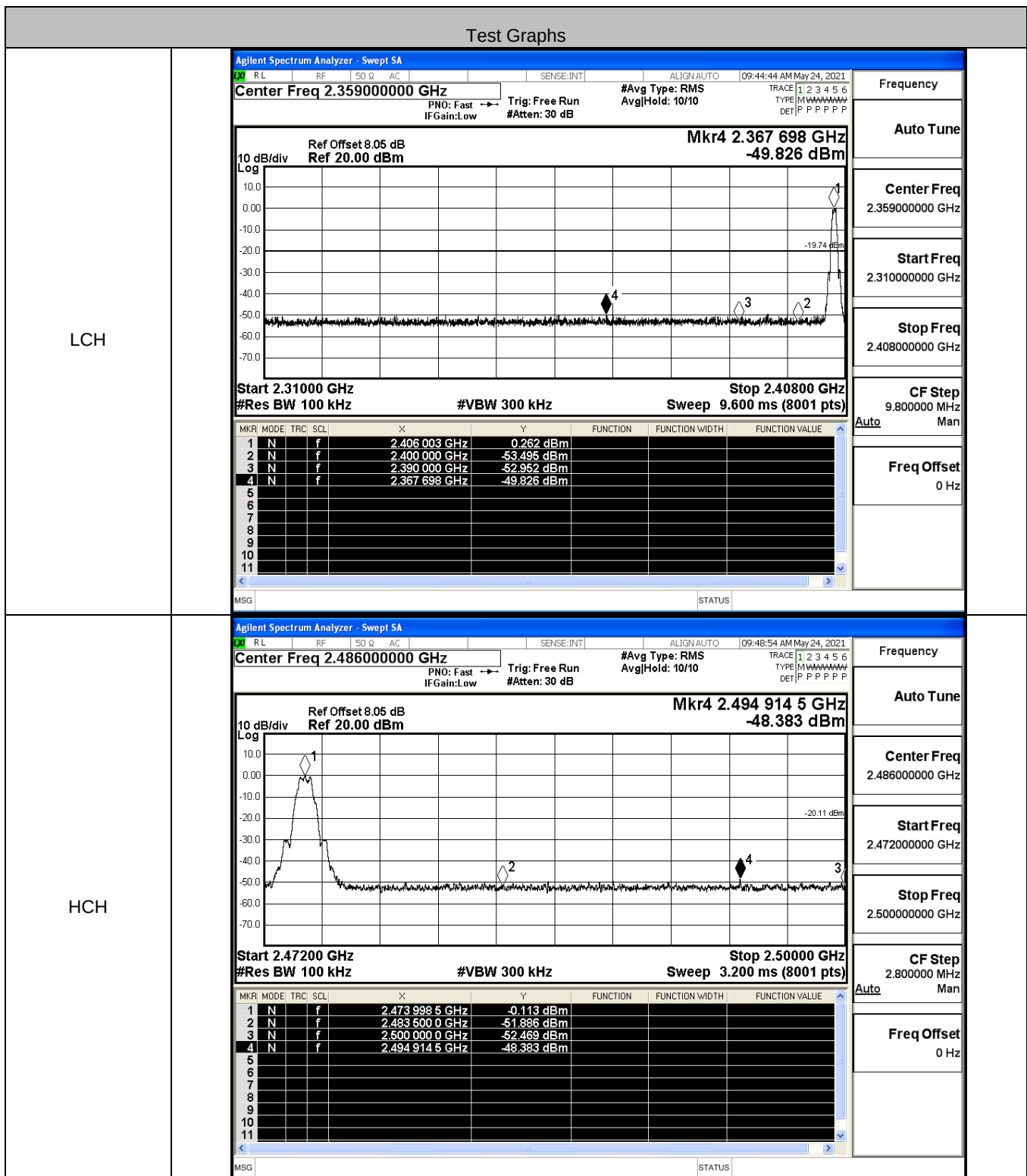


Puw/GFSK/HCH



A.6 Band-edge for RF Conducted Emissions

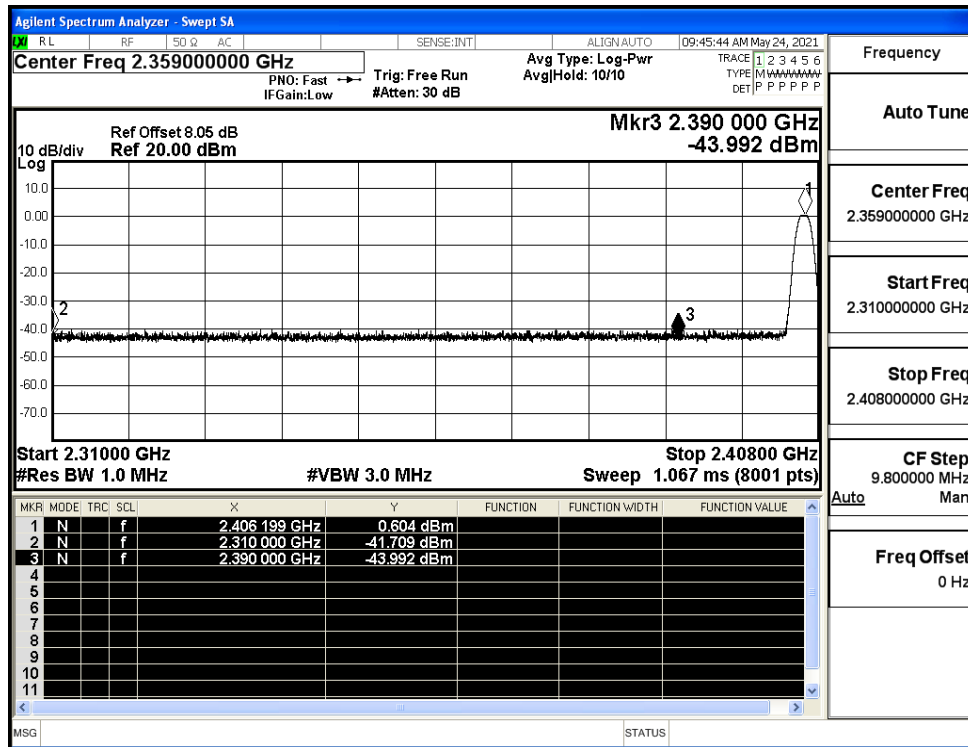
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	0.262	-49.826	-19.74	PASS
GFSK	HCH	-0.113	-48.383	-20.11	PASS



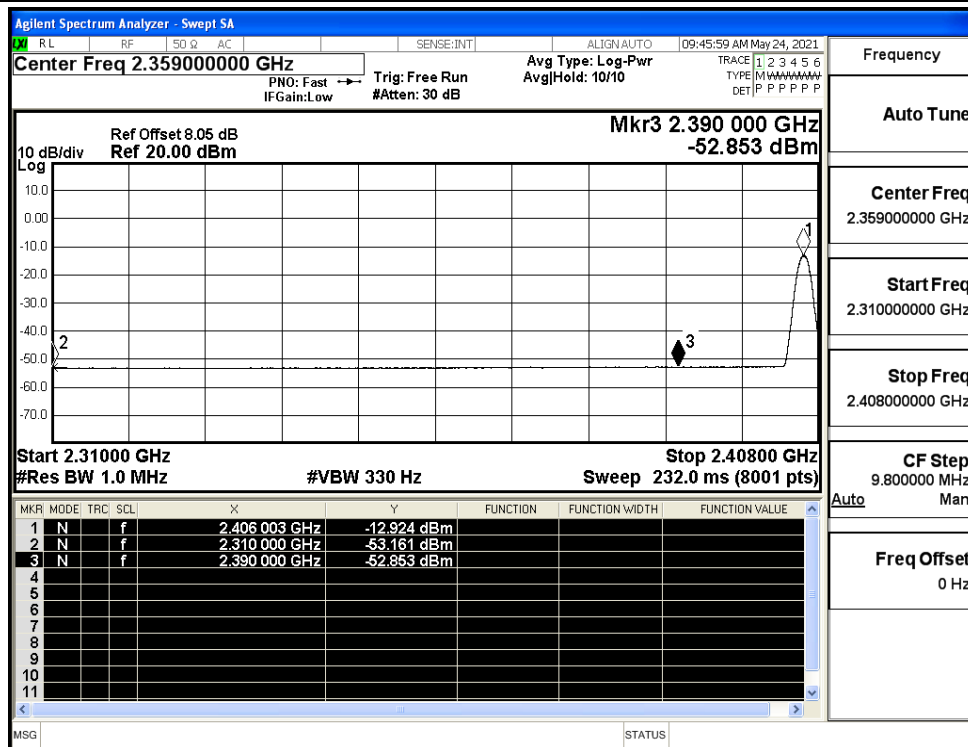
A.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
GFSK	2402	Ant1	2310.0	-41.71	2.0	0	53.55	PEAK	74	PASS
		Ant1	2310.0	-53.16	2.0	0	42.10	AV	54	PASS
		Ant1	2390.0	-43.99	2.0	0	51.27	PEAK	74	PASS
		Ant1	2390.0	-52.85	2.0	0	42.40	AV	54	PASS
	2480	Ant1	2483.5	-41.90	2.0	0	53.36	PEAK	74	PASS
		Ant1	2483.5	-52.36	2.0	0	42.89	AV	54	PASS
		Ant1	2500.0	-41.37	2.0	0	53.89	PEAK	74	PASS
		Ant1	2500.0	-52.21	2.0	0	43.05	AV	54	PASS

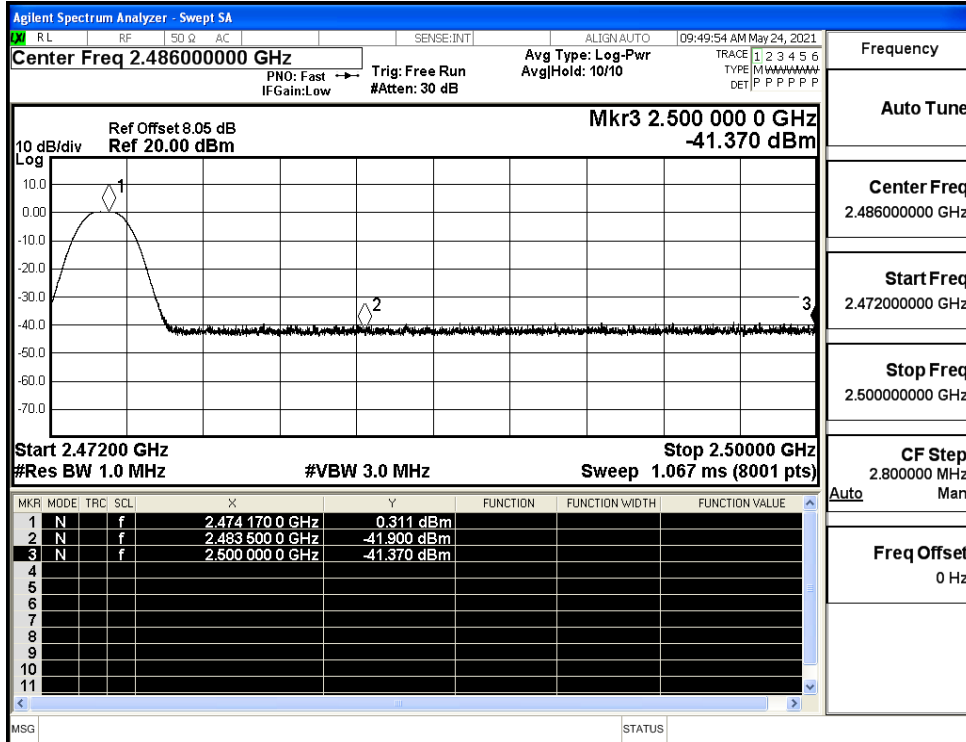
Restrict-band band-edge measurements_GFSK_2402_Ant1_PEAK



Restrict-band band-edge measurements_GFSK_2402_Ant1_AV



Restrict-band band-edge measurements_GFSK_2480_Ant1_PEAK



Restrict-band band-edge measurements_GFSK_2480_Ant1_AV

