

Appendix A

RF Test Data for 2.4G (Conducted Measurement)

Product Name: WIRELESS FLASH TRIGGER

Trade Mark: NEEWER

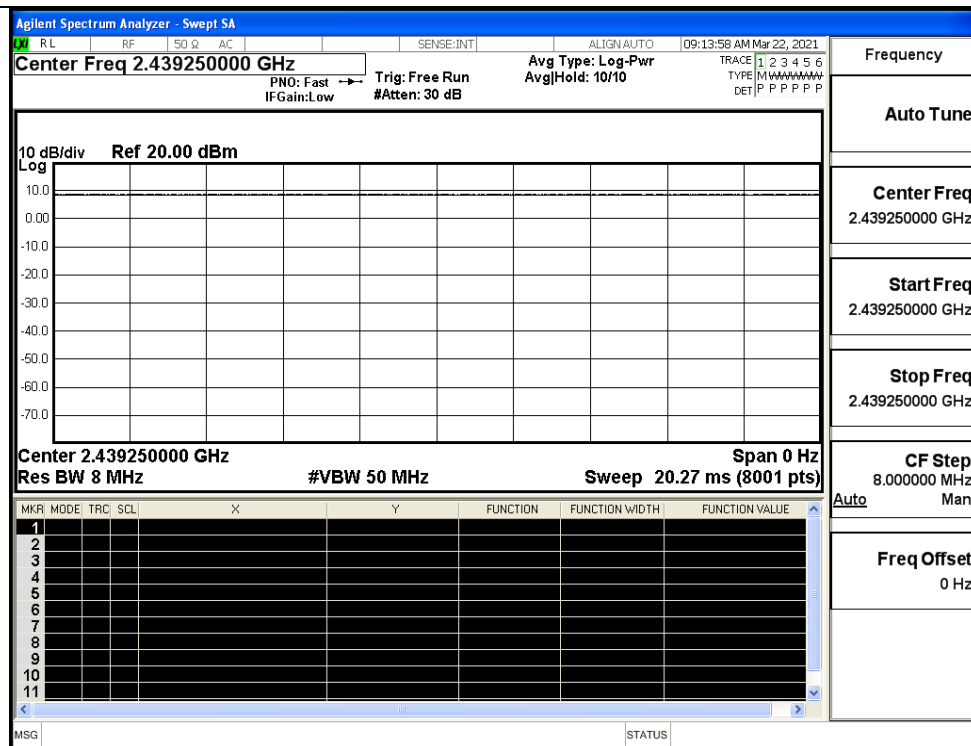
Test Model: Q-C

Environmental Conditions

Temperature:	24.6 ° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li Huan

A.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
GFSK	2439.25	Ant1	100	PASS

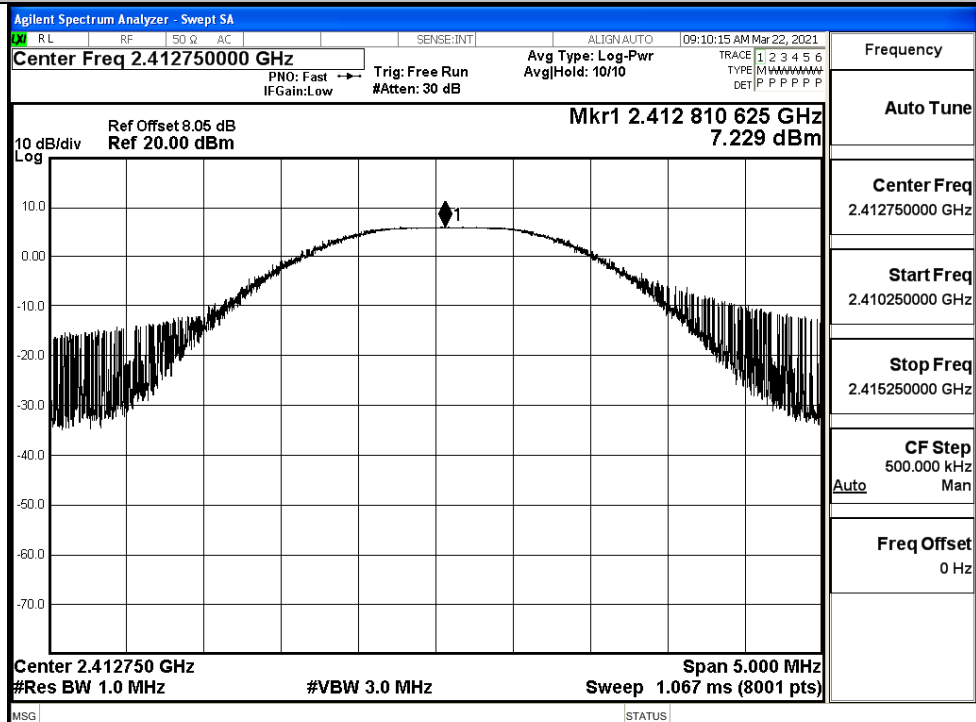


A.2 Maximum Conducted Peak Output Power

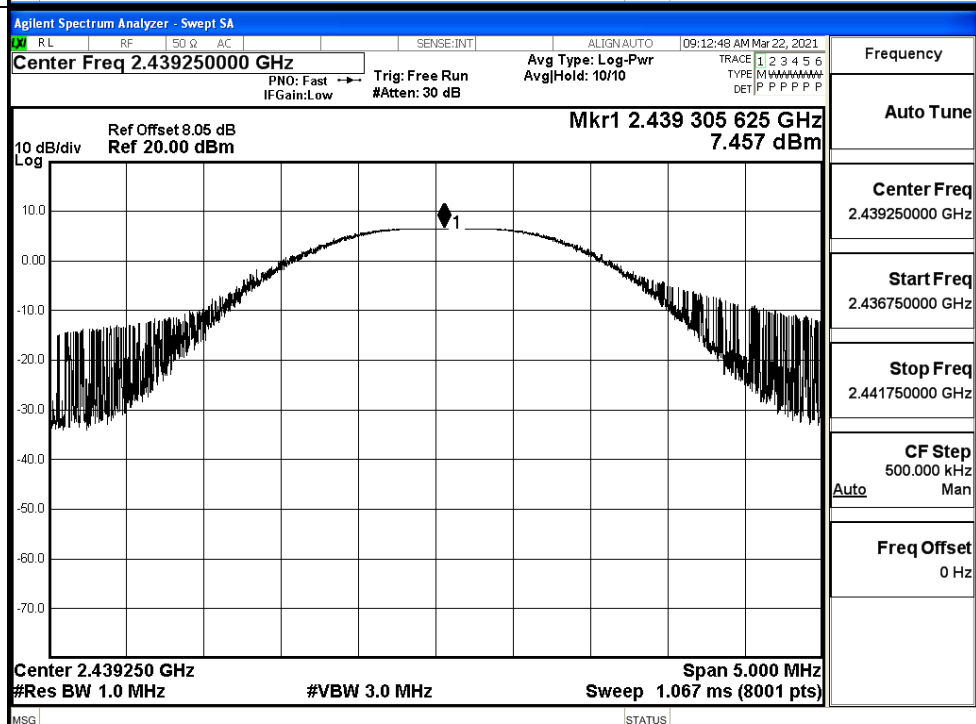
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
GFSK	LCH	7.229	30	PASS
GFSK	MCH	7.457	30	PASS
GFSK	HCH	8.091	30	PASS

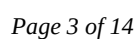
Test Graphs

LCH



MCH





A.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
GFSK	LCH	5.805	8	PASS
GFSK	MCH	7.265	8	PASS
GFSK	HCH	7.688	8	PASS

Test Graphs

LCH



MCH



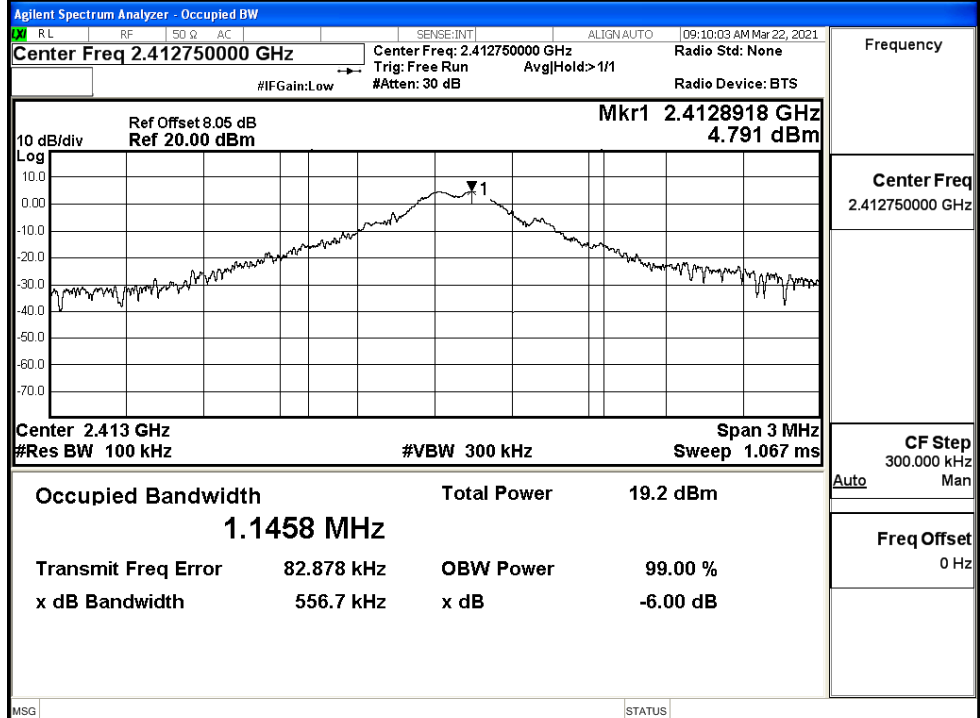


A.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.5567	≥ 0.5	PASS
GFSK	MCH	0.5599	≥ 0.5	PASS
GFSK	HCH	0.5720	≥ 0.5	PASS

Test Graphs

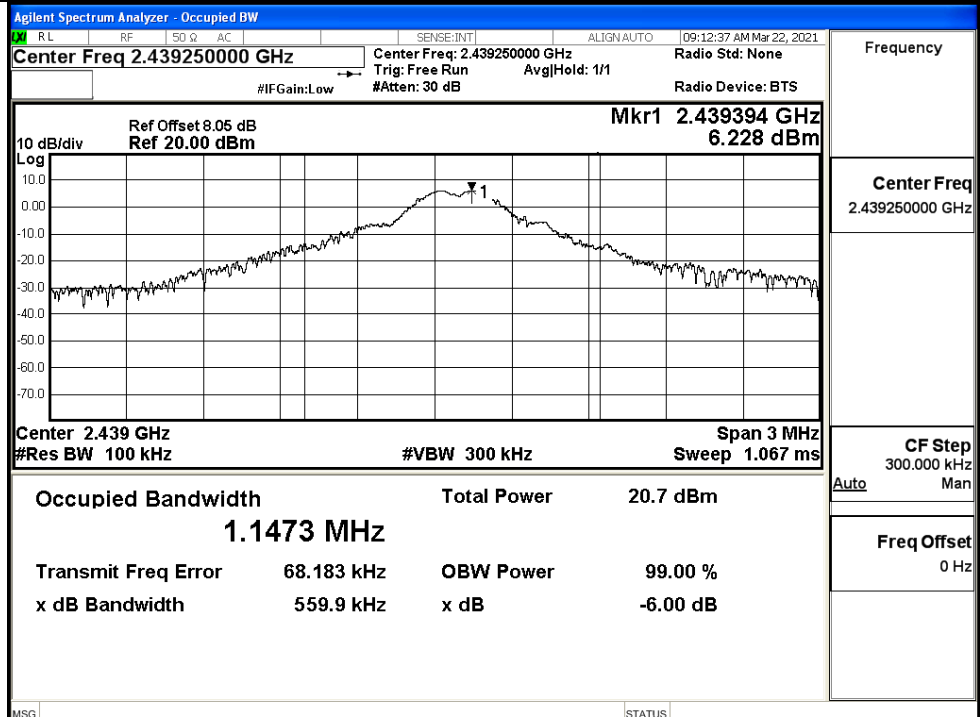
LCH



Frequency

Center Freq
2.412750000 GHzCF Step
300.000 kHz
Auto ManFreq Offset
0 Hz

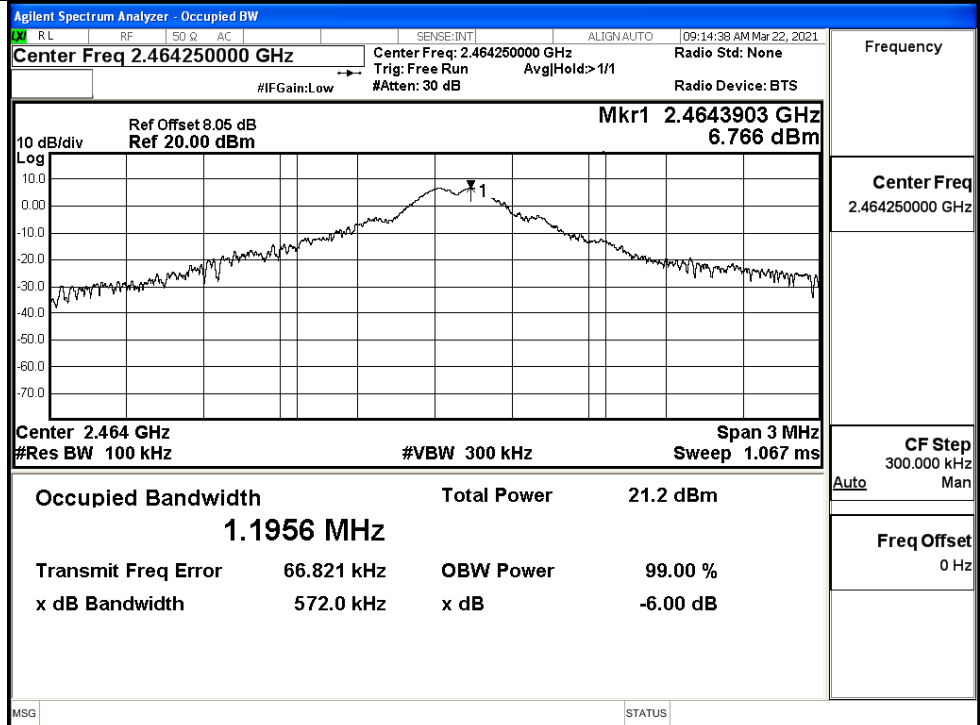
MCH



Frequency

Center Freq
2.439250000 GHzCF Step
300.000 kHz
Auto ManFreq Offset
0 Hz

HCH

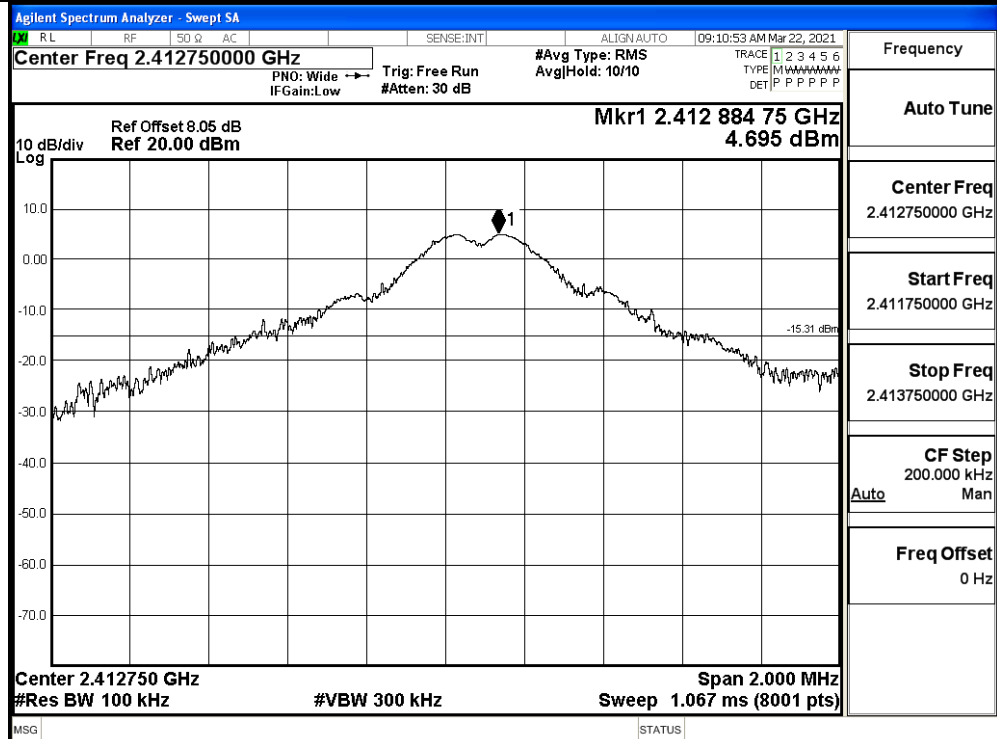


A.5 RF Conducted Spurious Emissions

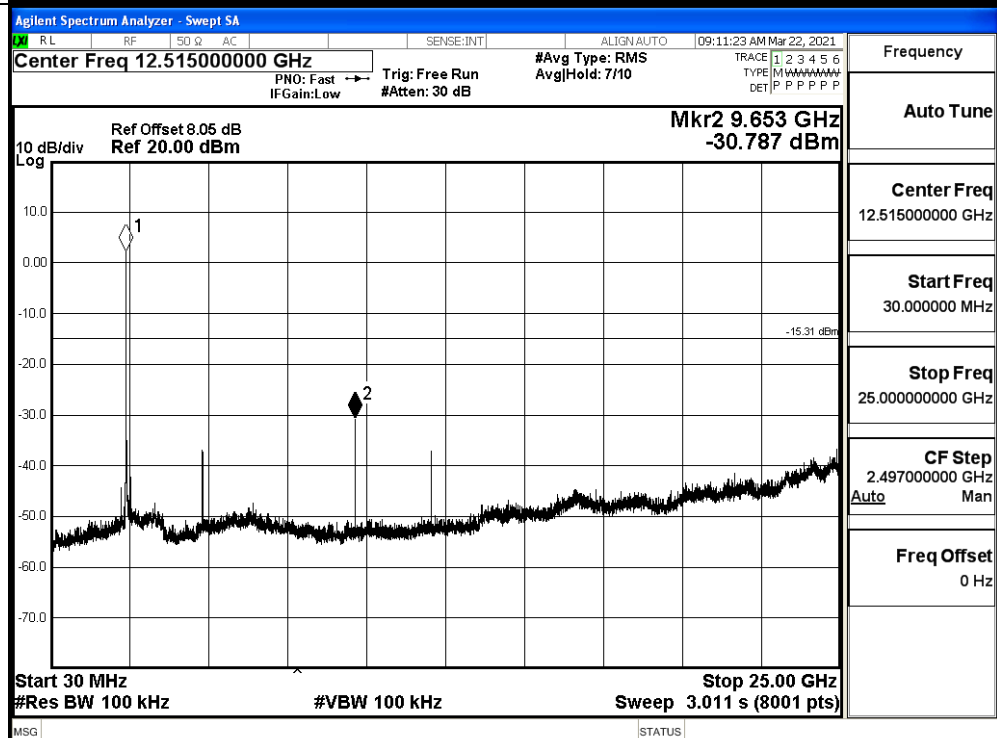
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	4.695	-30.787	-15.305	PASS
GFSK	MCH	6.069	-30.920	-13.931	PASS
GFSK	HCH	6.681	-32.077	-13.319	PASS

GFSK LCH Graphs

Pref/GFSK/LCH

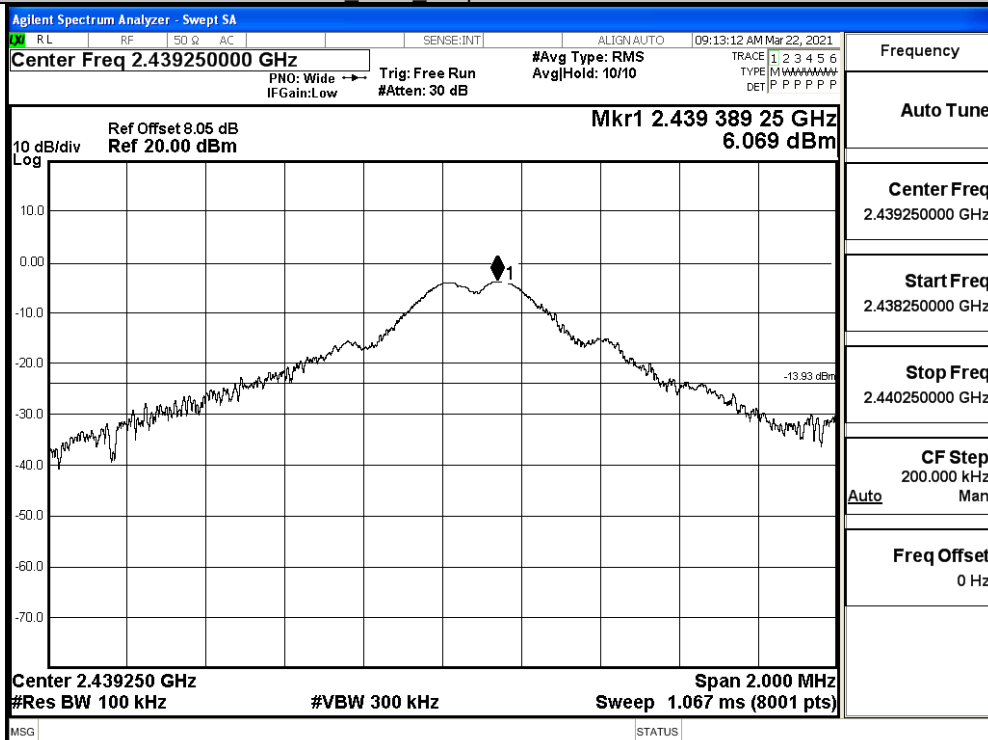


Puw/GFSK/LCH

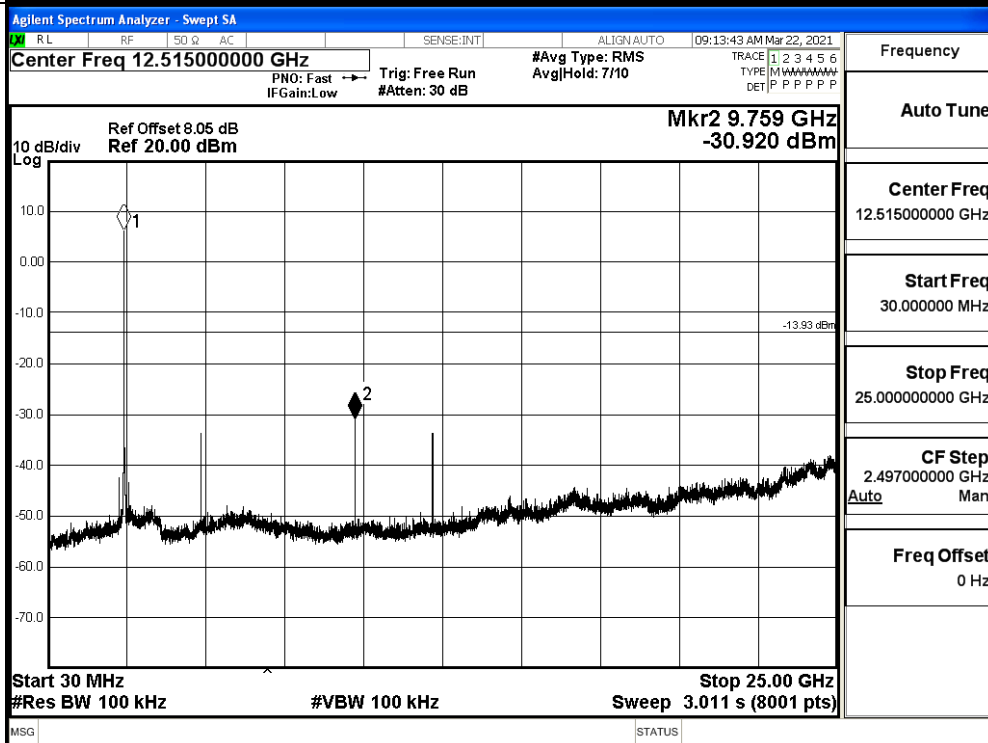


GFSK MCH Graphs

Pref/GFSK/MCH

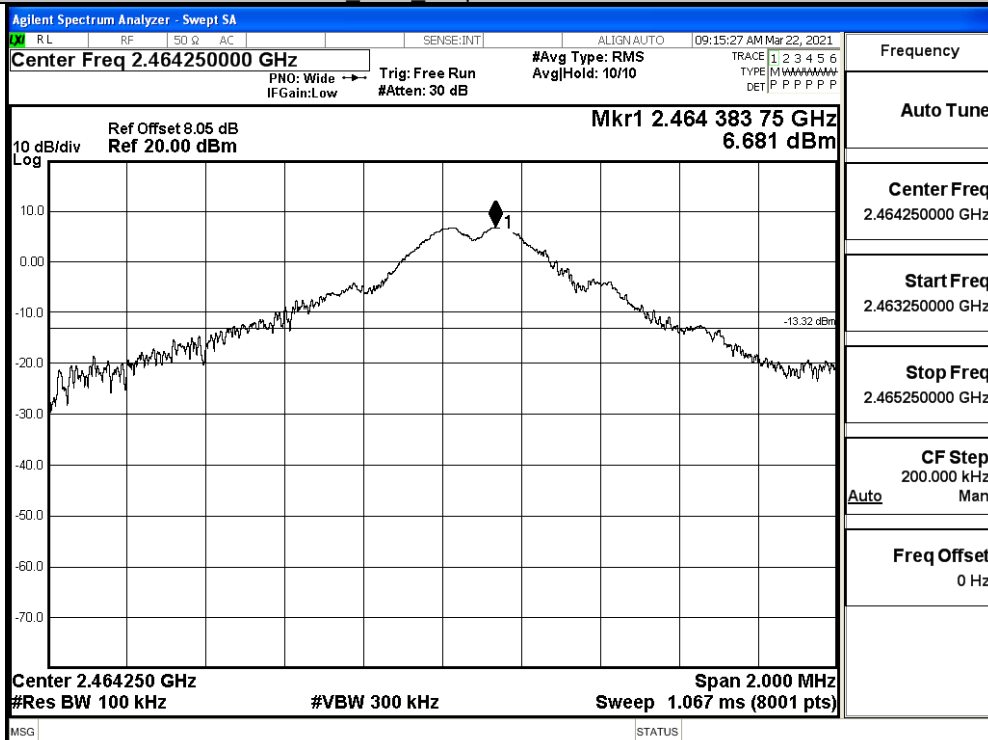


Puw/GFSK/MCH

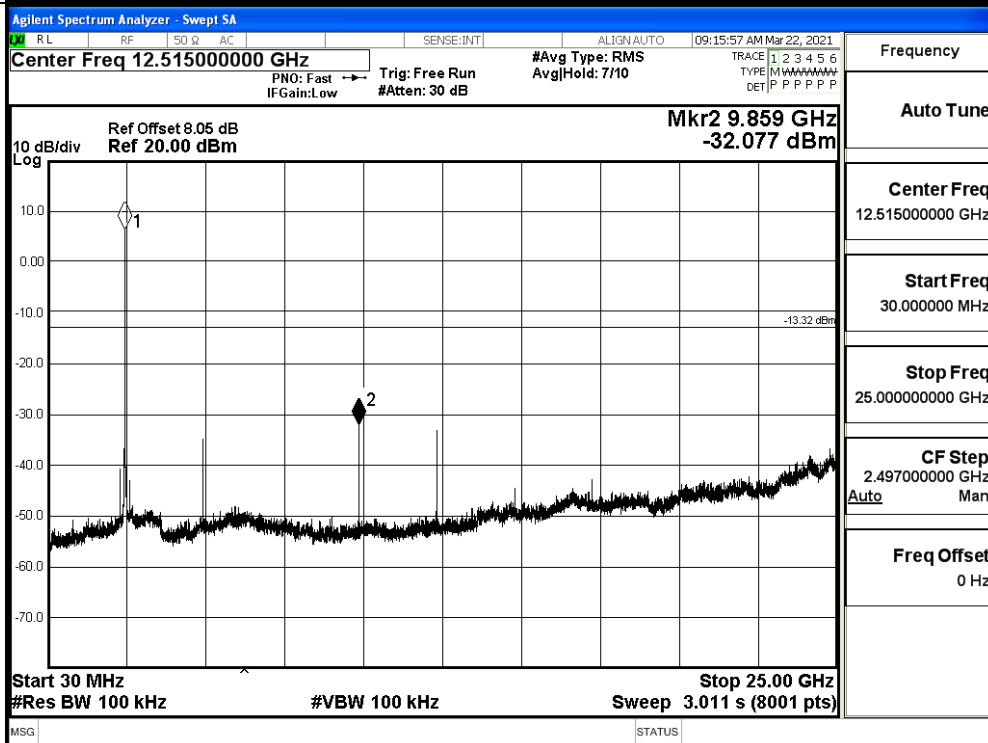


GFSK HCH Graphs

Pref/GFSK/HCH



Puw/GFSK/HCH

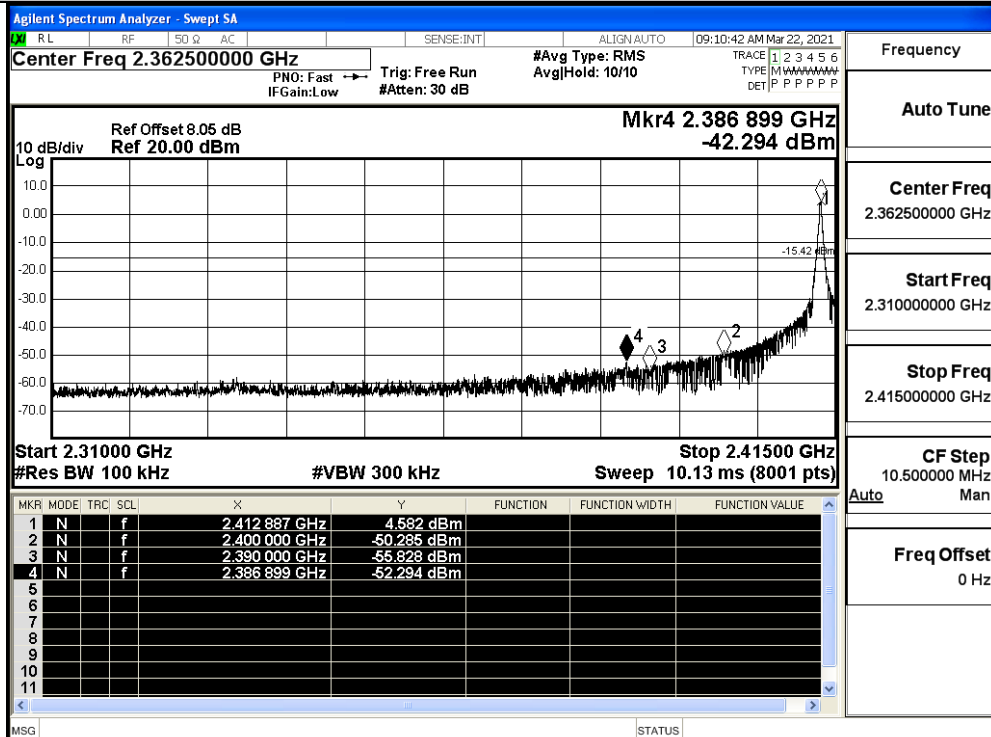


A.6 Band-edge for RF Conducted Emissions

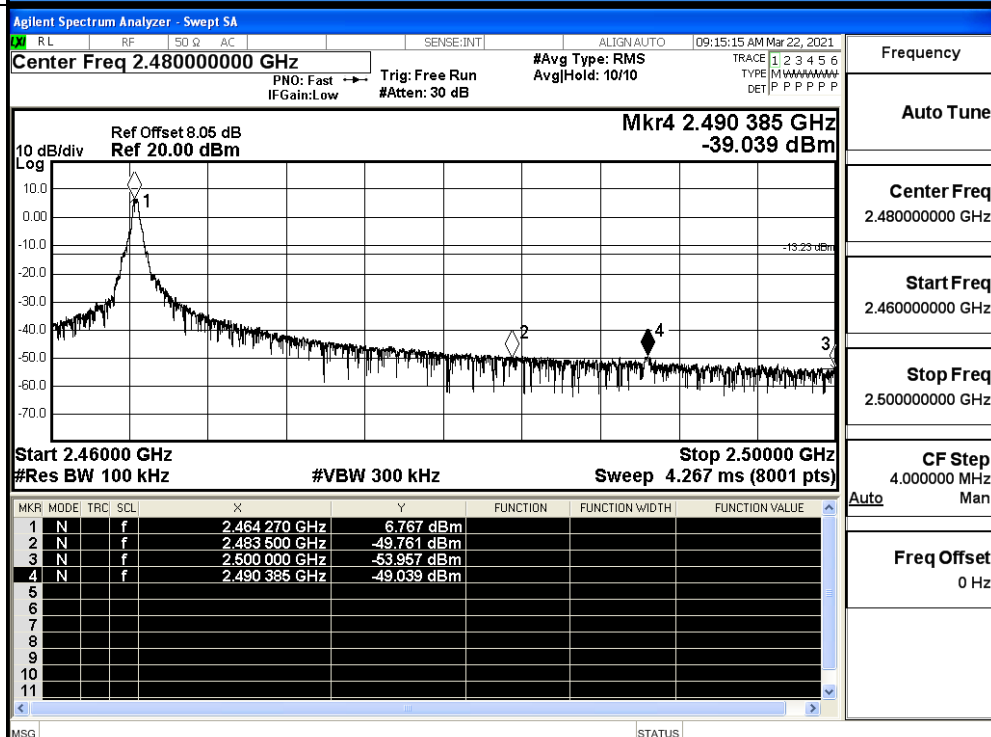
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	4.582	-52.294	-15.42	PASS
GFSK	HCH	6.767	-49.039	-13.23	PASS

Test Graphs

LCH



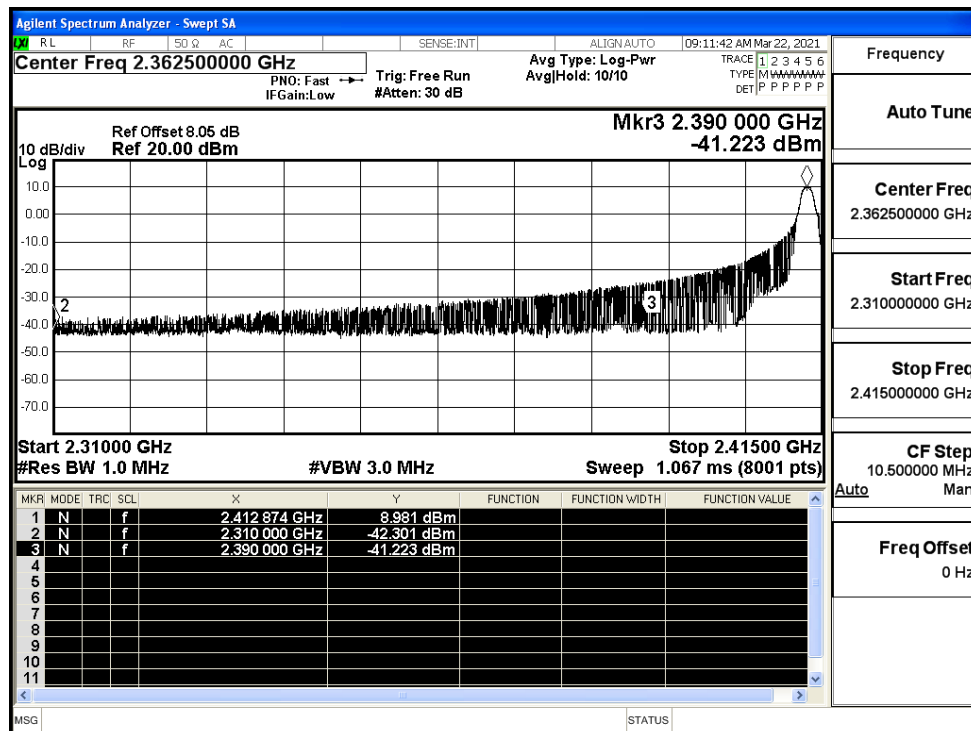
HCH



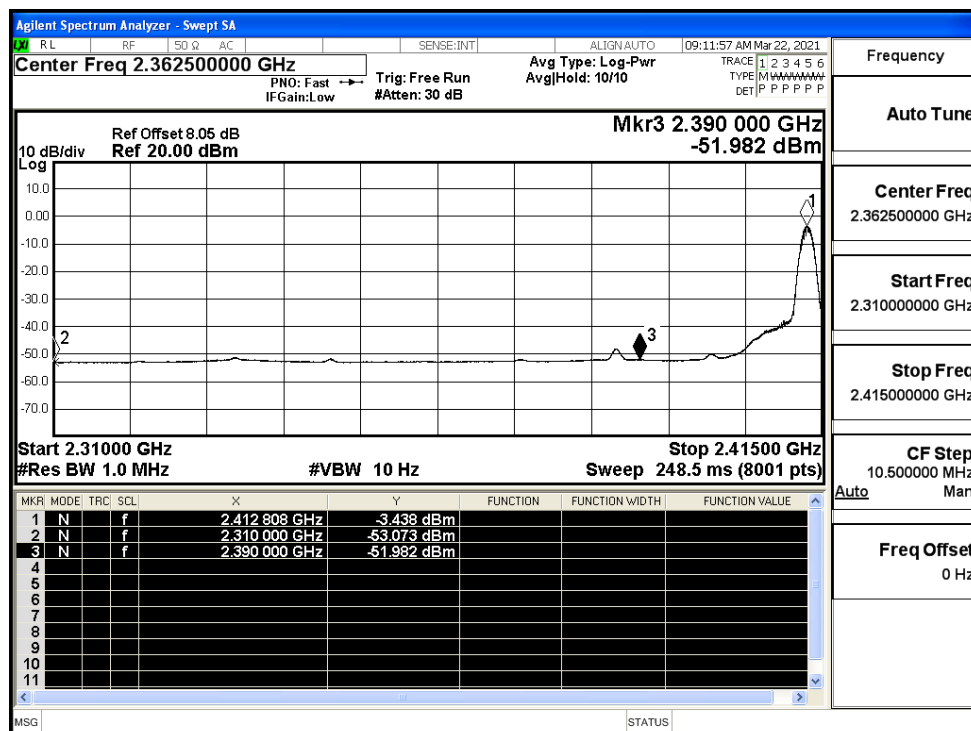
A.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
GFSK	2412.7 5	Ant1	2310.0	-42.30	2.0	0	54.96	PEAK	74	PASS
		Ant1	2310.0	-53.07	2.0	0	44.19	AV	54	PASS
		Ant1	2390.0	-41.22	2.0	0	56.04	PEAK	74	PASS
		Ant1	2390.0	-51.98	2.0	0	45.28	AV	54	PASS
	2464.2 5	Ant1	2483.5	-34.55	2.0	0	62.71	PEAK	74	PASS
		Ant1	2483.5	-51.76	2.0	0	45.50	AV	54	PASS
		Ant1	2500.0	-42.37	2.0	0	54.89	PEAK	74	PASS
		Ant1	2500.0	-51.96	2.0	0	45.30	AV	54	PASS

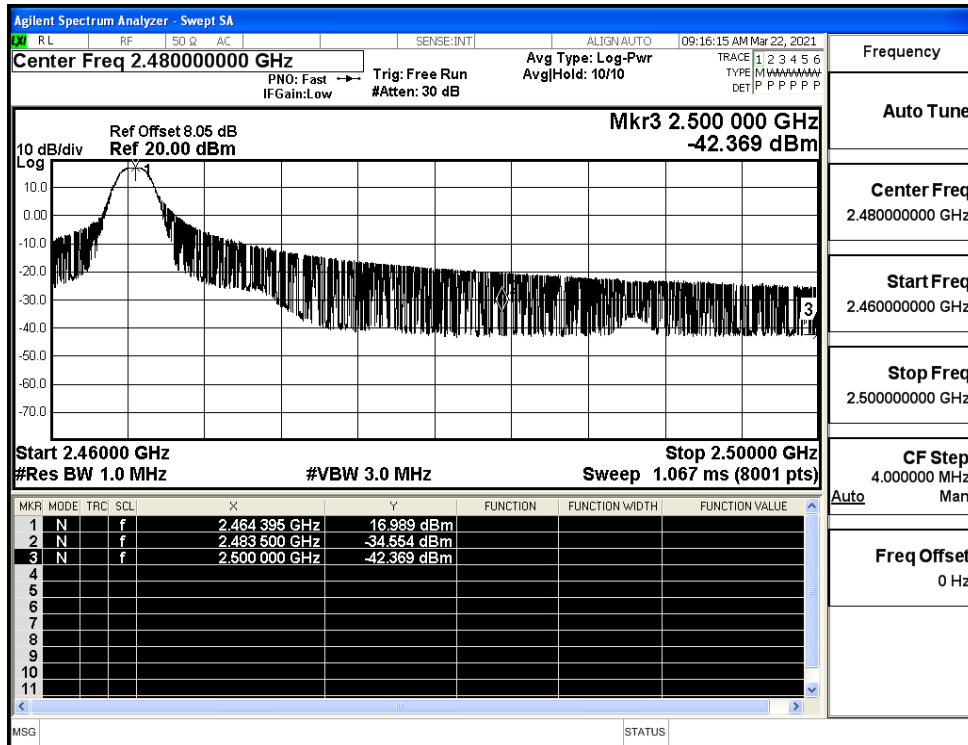
Restrict-band band-edge measurements_GFSK_2412.75_Ant1_PEAK



Restrict-band band-edge measurements_GFSK_2412.75_Ant1_AV



Restrict-band band-edge measurements_GFSK_2464.25_Ant1_PEAK



Restrict-band band-edge measurements_GFSK_2464.25_Ant1_AV

