

Appendix A

RF Test Data for 2.4G (Conducted Measurement)

Product Name: 2.4G Wireless Remote Control

Trade Mark: NEEWER

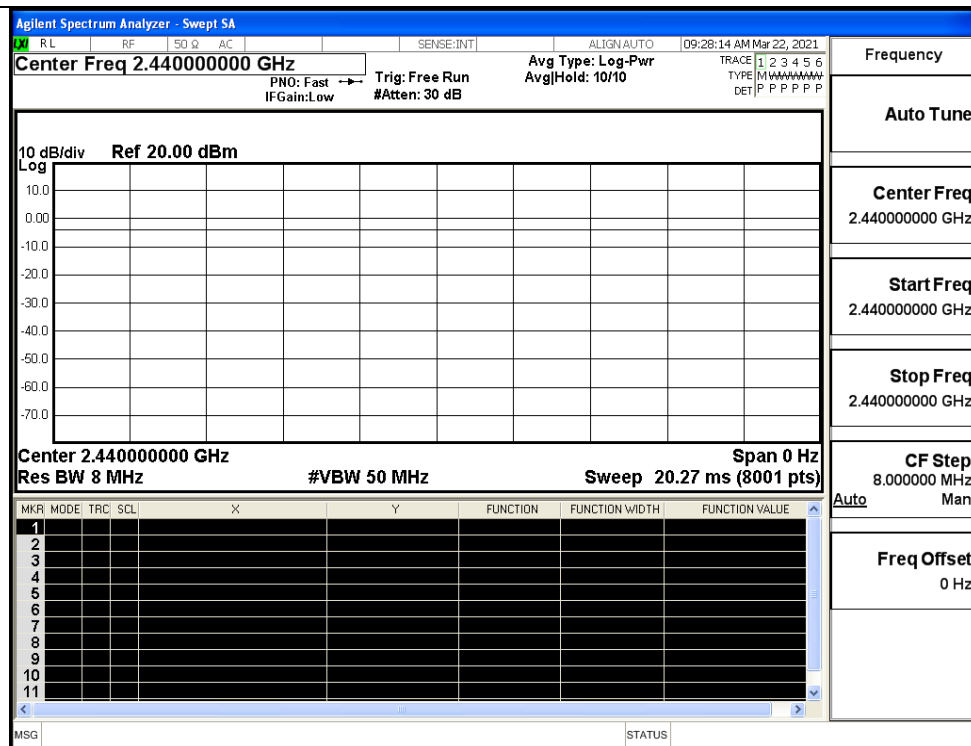
Test Model: RF-300

Environmental Conditions

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

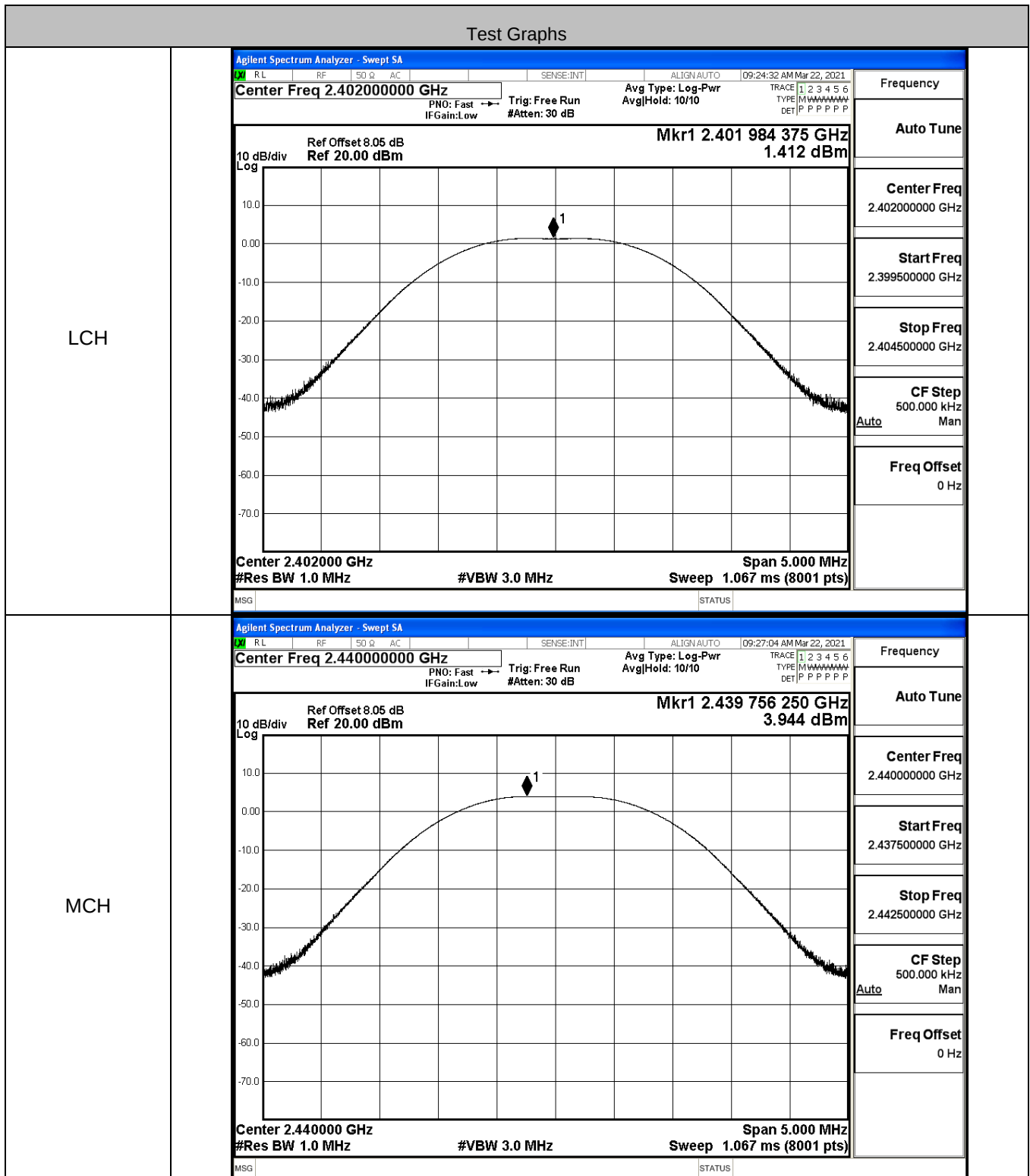
A.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
GFSK	2440	Ant1	100	PASS

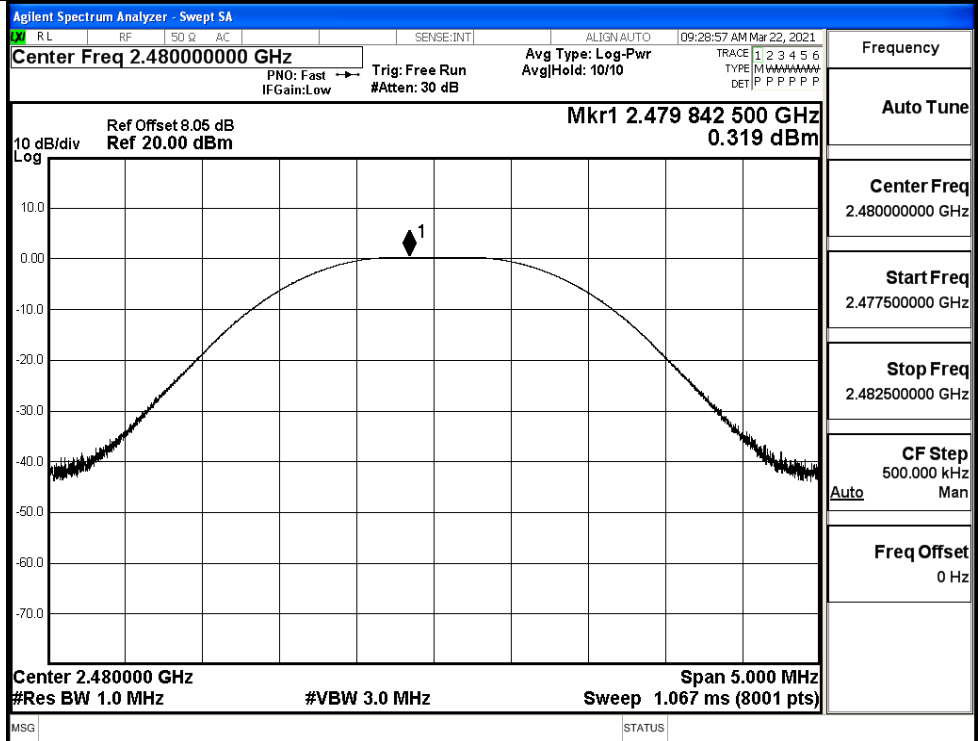


A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
GFSK	LCH	1.412	30	PASS
GFSK	MCH	3.944	30	PASS
GFSK	HCH	0.319	30	PASS



HCH

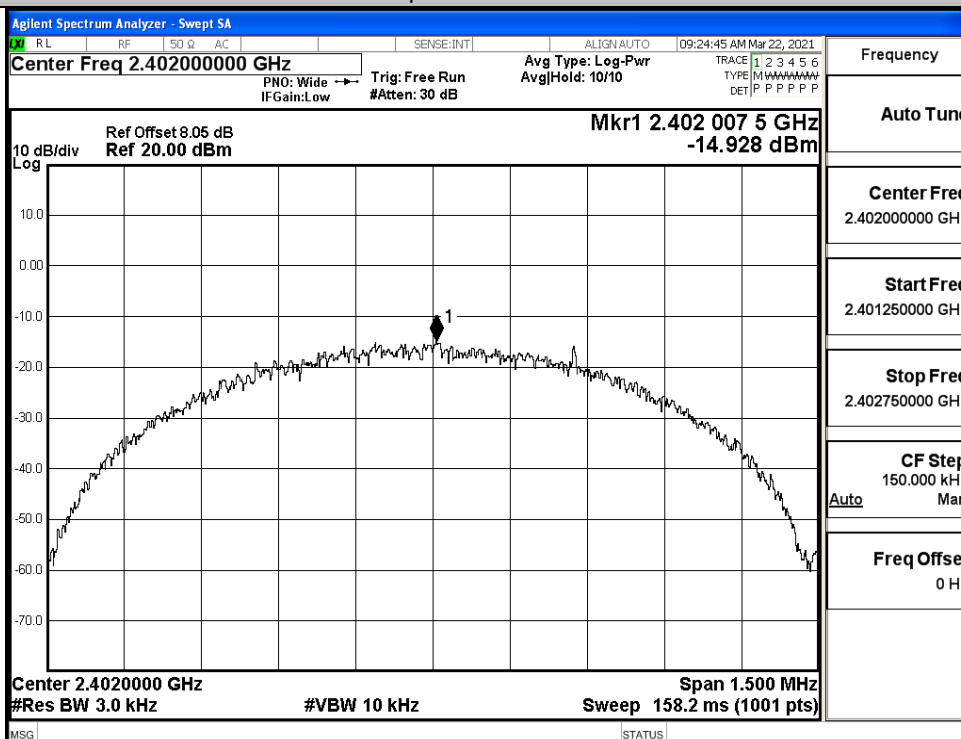


A.3 Maximum Power Spectral Density

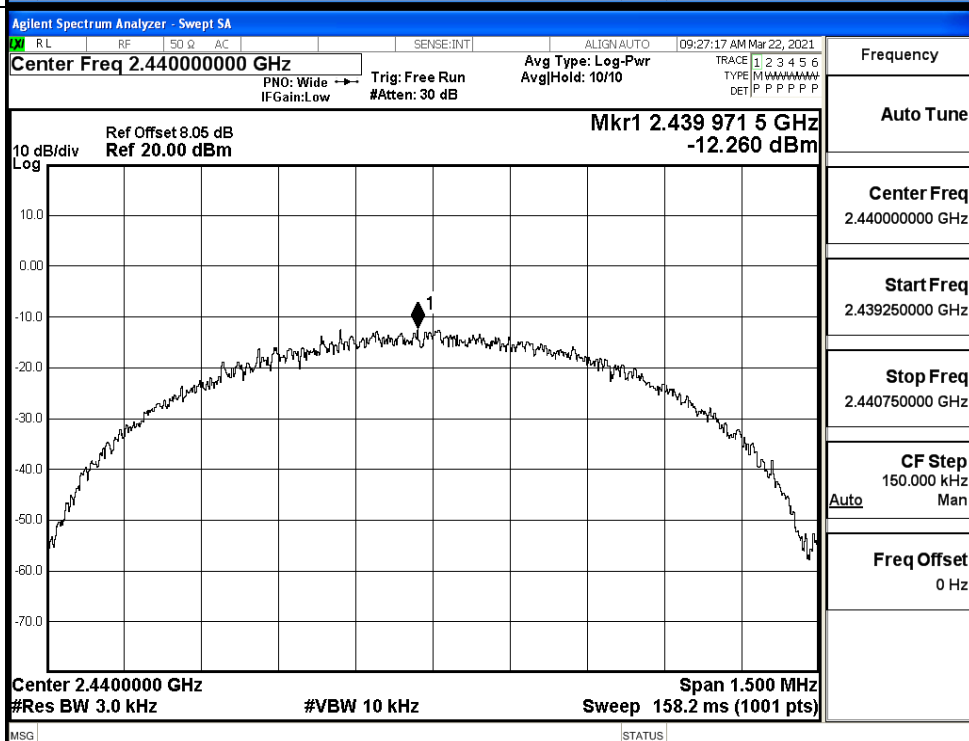
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
GFSK	LCH	-14.928	8	PASS
GFSK	MCH	-12.260	8	PASS
GFSK	HCH	-16.188	8	PASS

Test Graphs

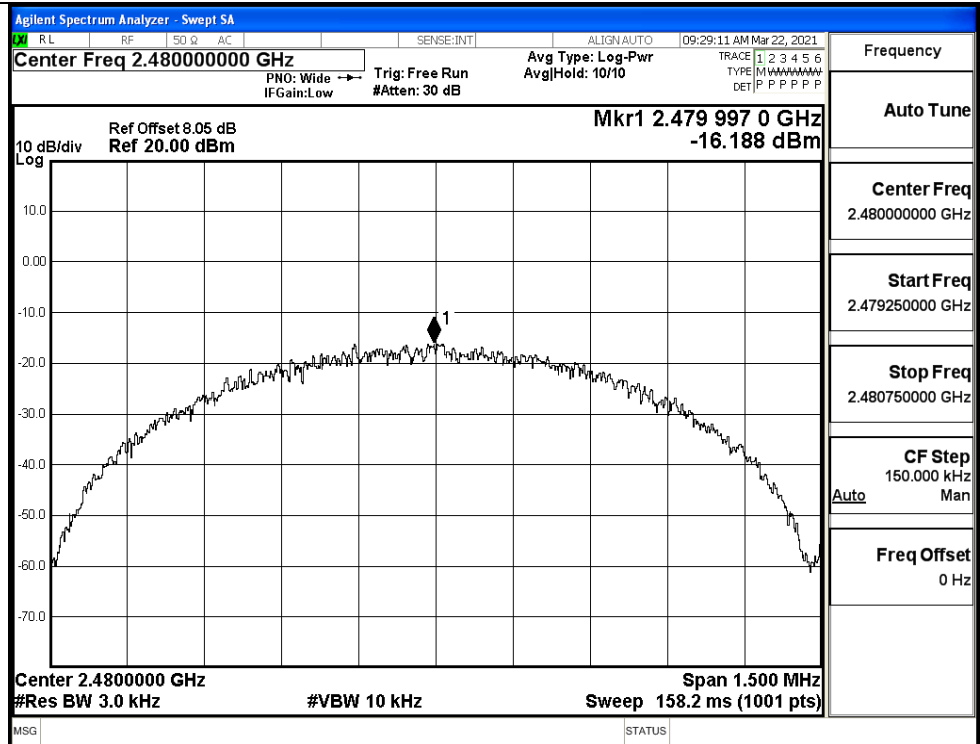
LCH



MCH



HCH

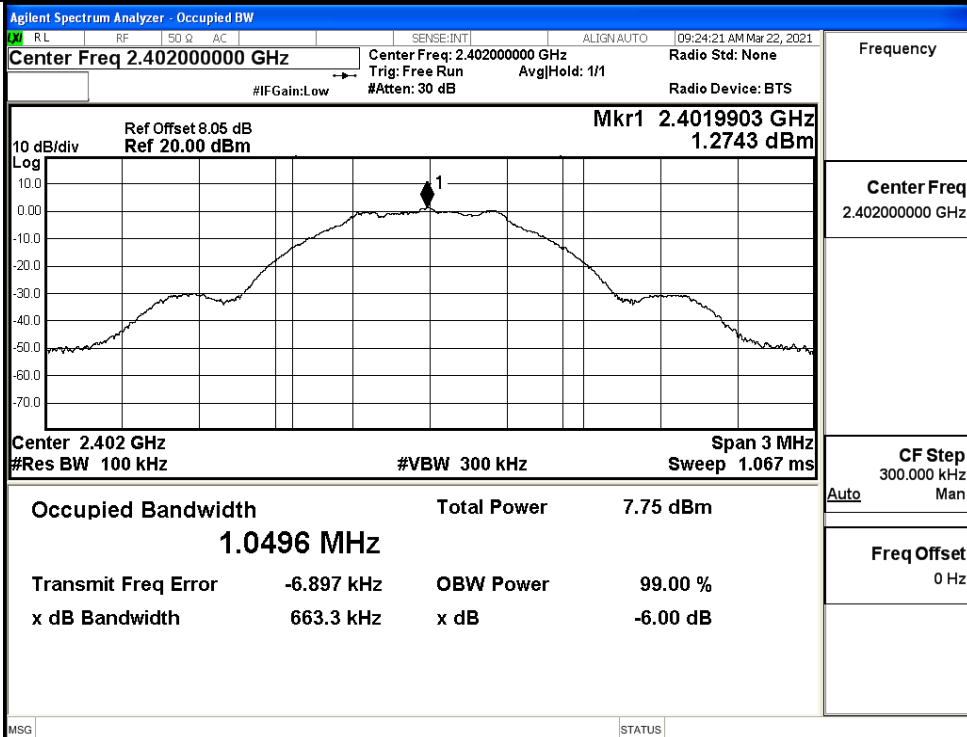


A.4 6dB Bandwidth

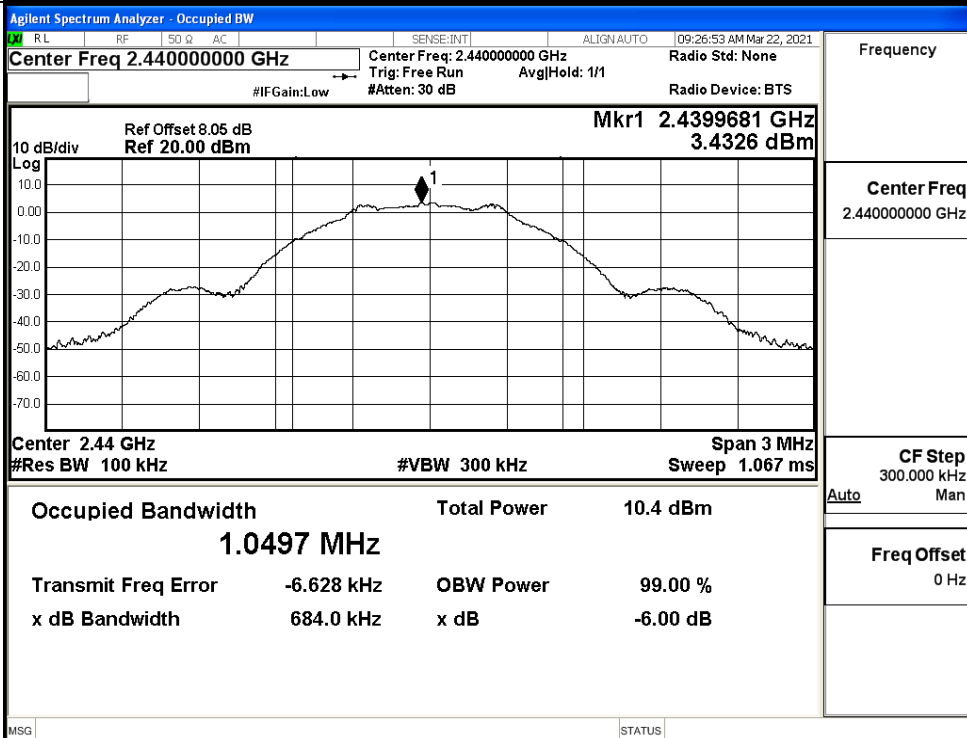
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.6633	≥ 0.5	PASS
GFSK	MCH	0.6840	≥ 0.5	PASS
GFSK	HCH	0.6630	≥ 0.5	PASS

Test Graphs

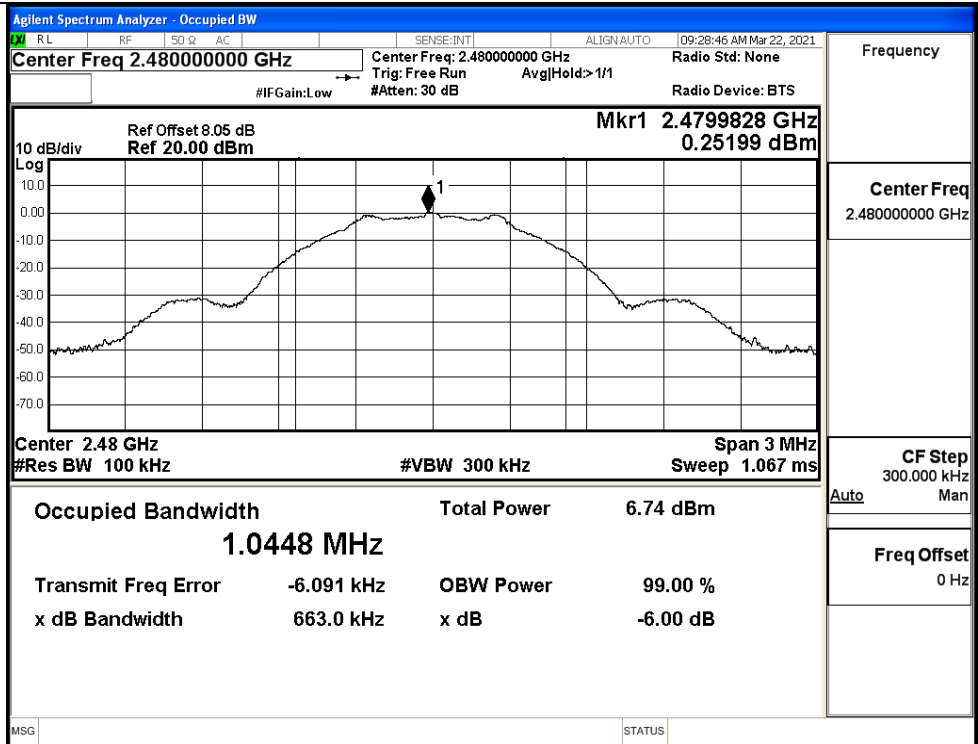
LCH



MCH



HCH

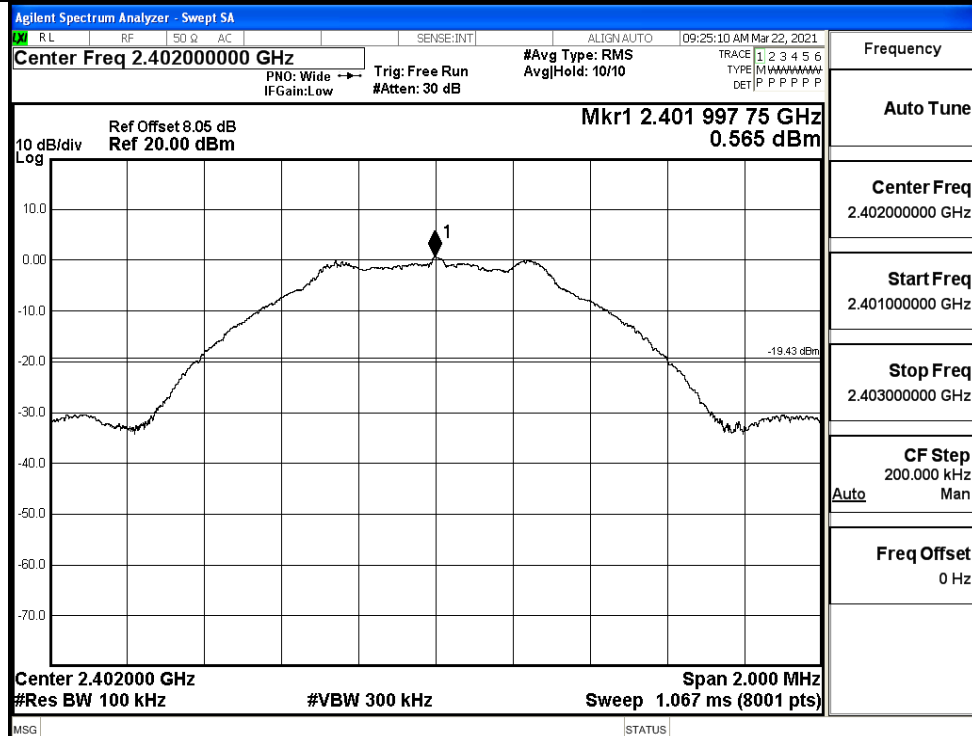


A.5 RF Conducted Spurious Emissions

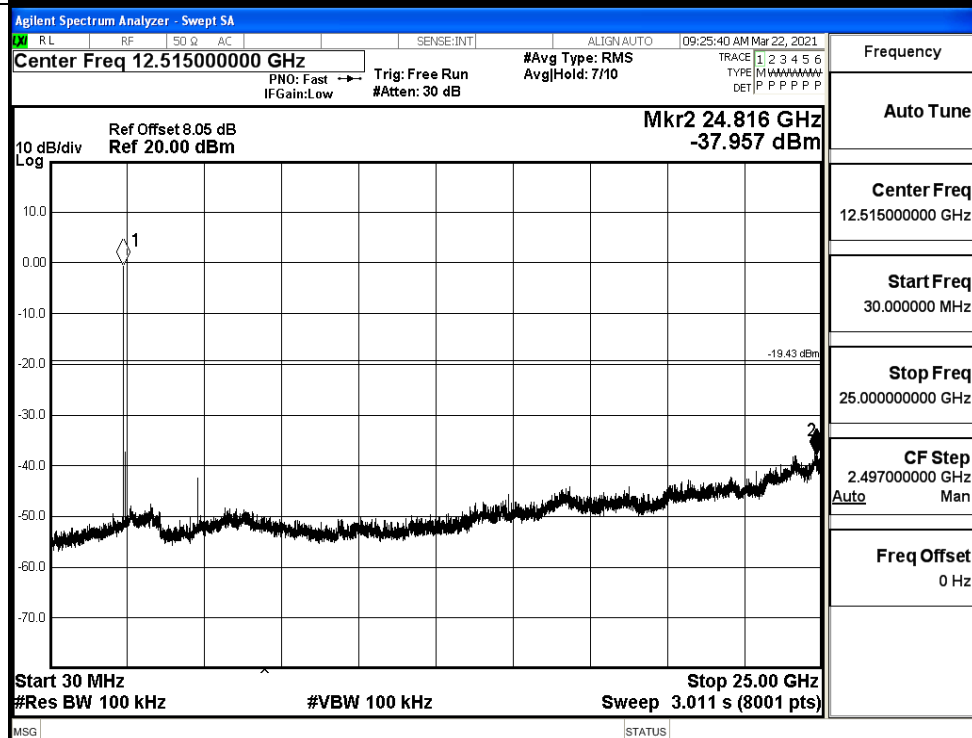
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	0.565	-37.957	-19.435	PASS
GFSK	MCH	3.844	-37.458	-16.156	PASS
GFSK	HCH	-0.186	-37.004	-20.186	PASS

GFSK LCH Graphs

Pref/GFSK/LCH

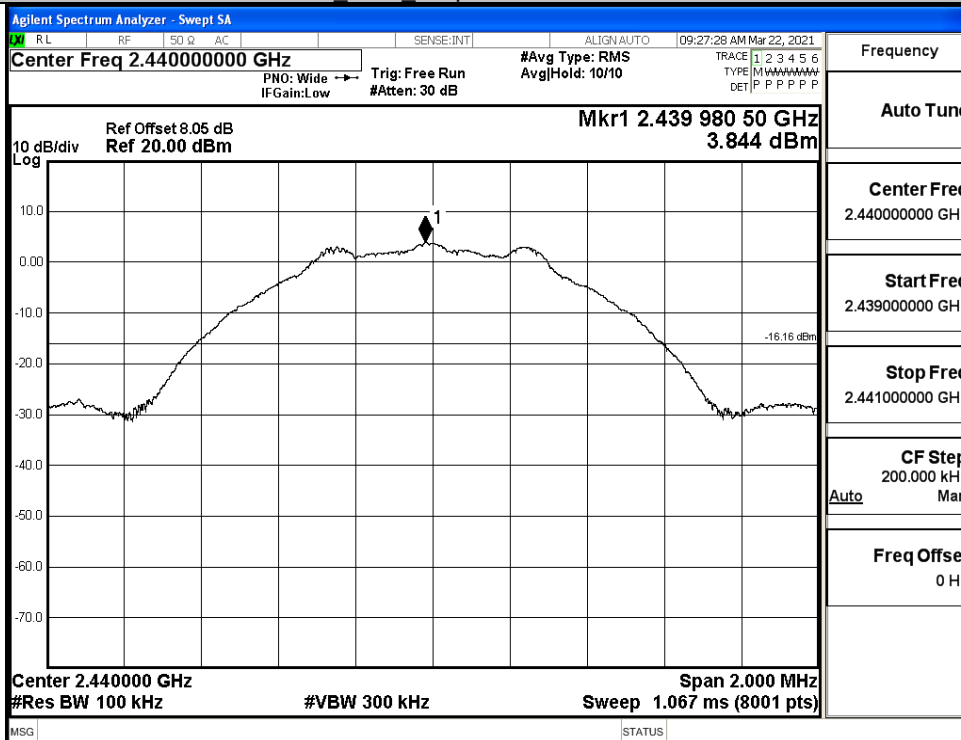


Puw/GFSK/LCH

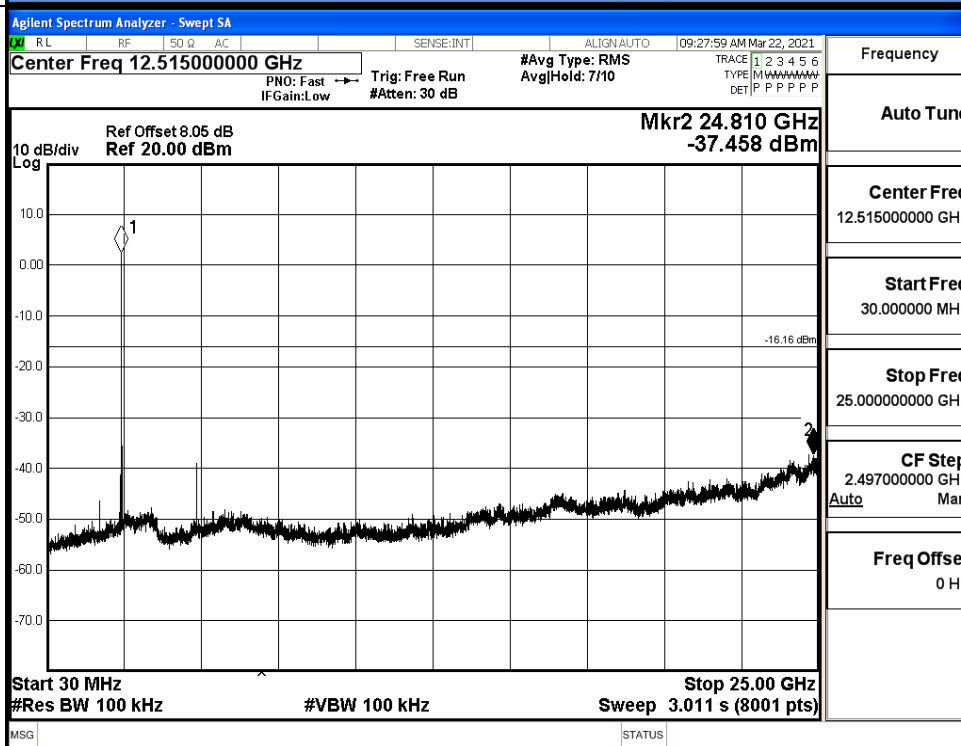


GFSK MCH Graphs

Pref/GFSK/MCH

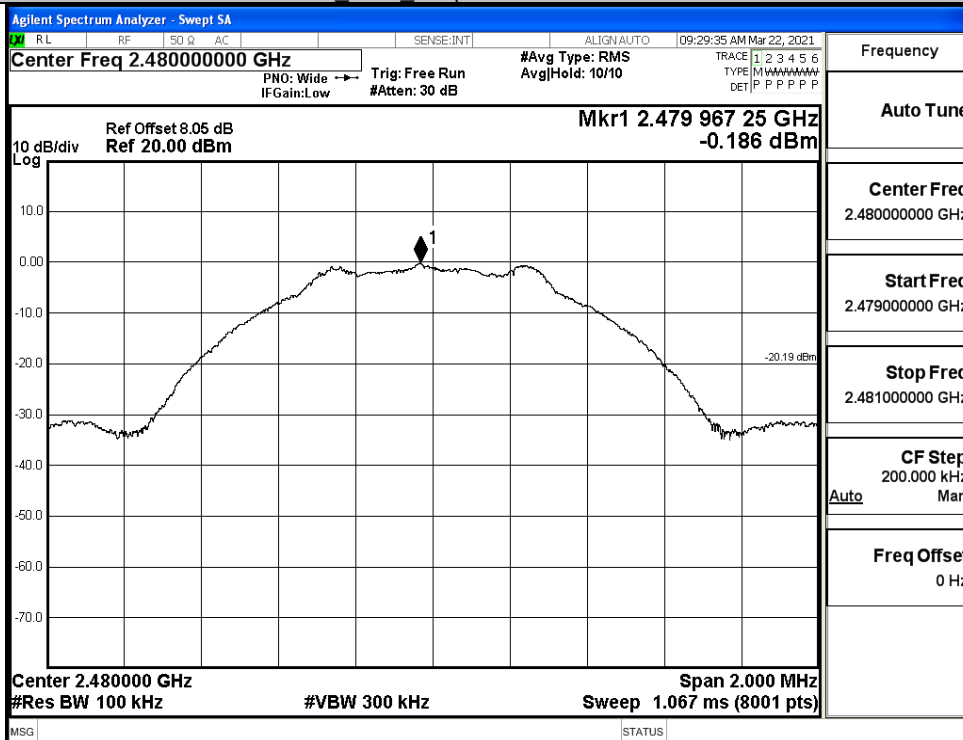


Puw/GFSK/MCH



GFSK HCH Graphs

Pref/GFSK/HCH



Puw/GFSK/HCH

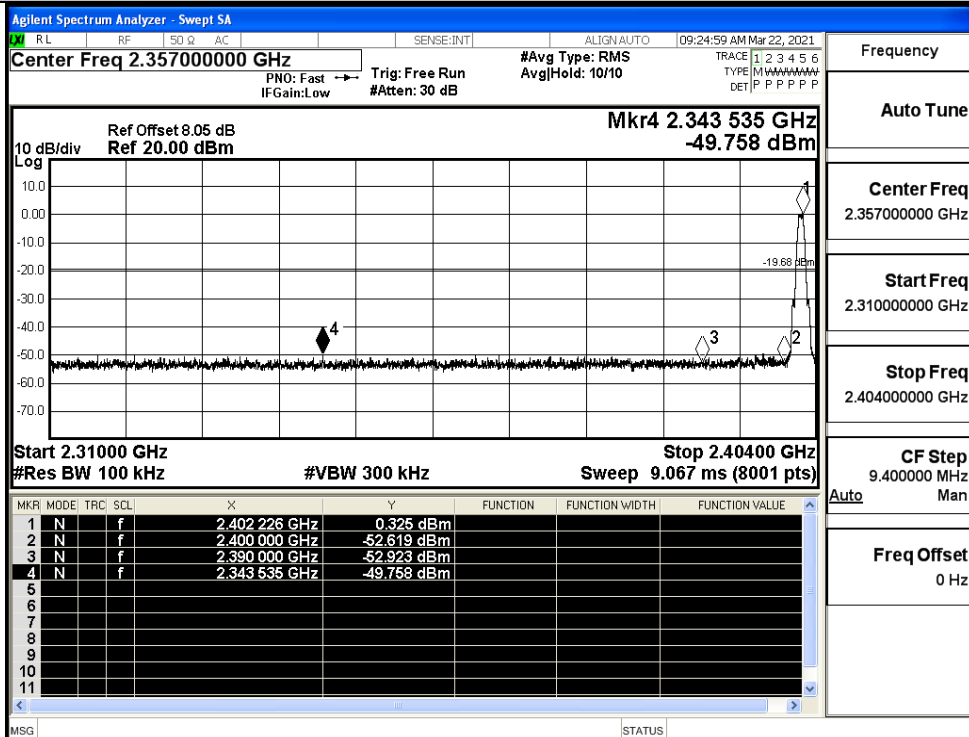


A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	0.325	-49.758	-19.68	PASS
GFSK	HCH	0.145	-48.959	-19.86	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

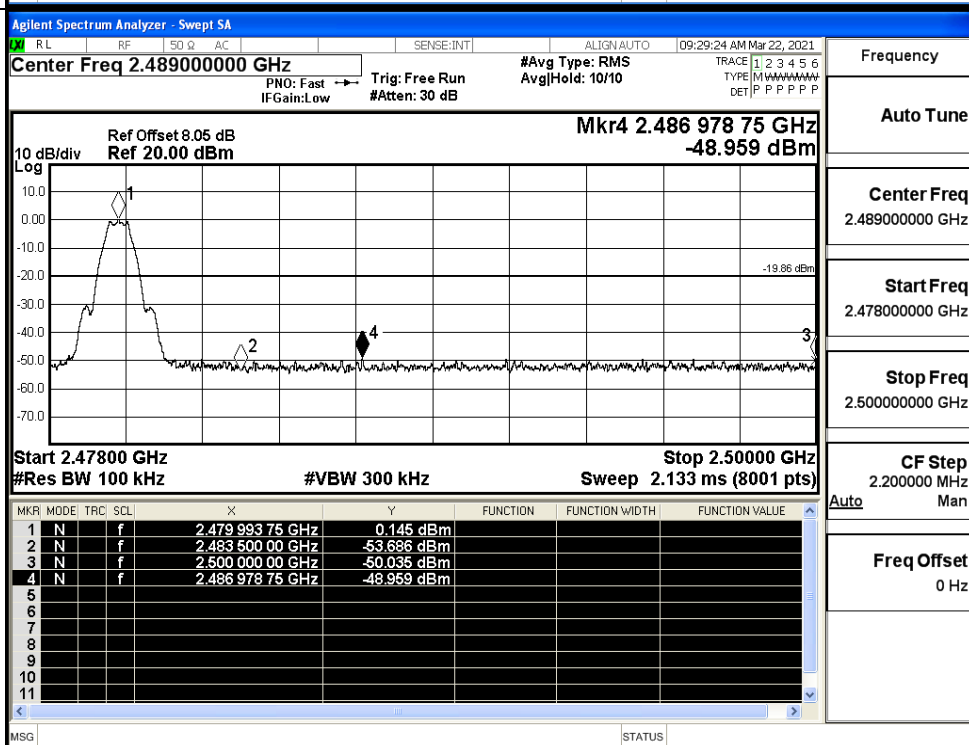
9.400000 MHz

Auto Man

Freq Offset

0 Hz

HCH



Frequency

Auto Tune

Center Freq

2.489000000 GHz

Start Freq

2.478000000 GHz

Stop Freq

2.500000000 GHz

CF Step

2.200000 MHz

Auto Man

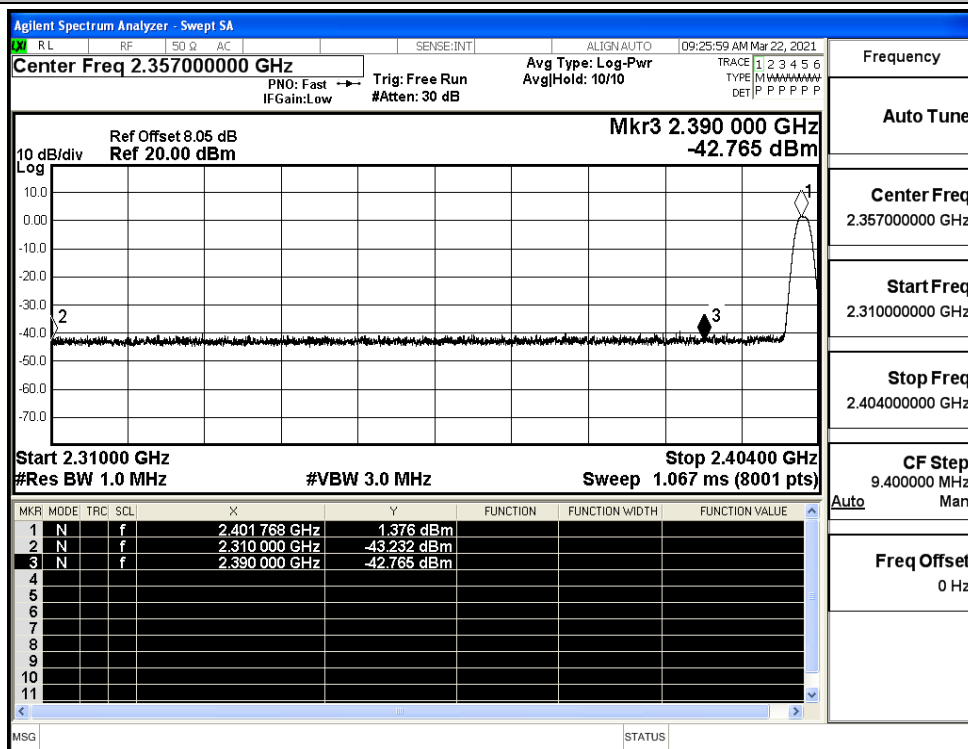
Freq Offset

0 Hz

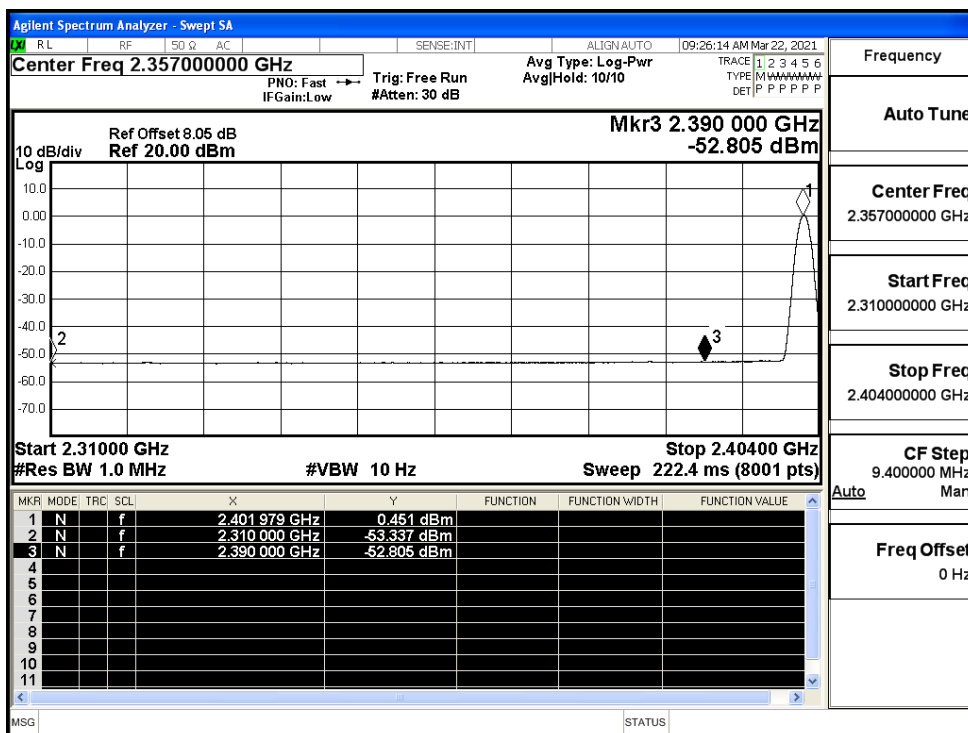
A.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
GFSK	2402	Ant1	2310.0	-43.23	2.0	0	54.03	PEAK	74	PASS
		Ant1	2310.0	-53.34	2.0	0	43.92	AV	54	PASS
		Ant1	2390.0	-42.77	2.0	0	54.49	PEAK	74	PASS
		Ant1	2390.0	-52.81	2.0	0	44.45	AV	54	PASS
	2480	Ant1	2483.5	-42.17	2.0	0	55.09	PEAK	74	PASS
		Ant1	2483.5	-52.25	2.0	0	45.01	AV	54	PASS
		Ant1	2500.0	-42.43	2.0	0	54.83	PEAK	74	PASS
		Ant1	2500.0	-52.26	2.0	0	45.00	AV	54	PASS

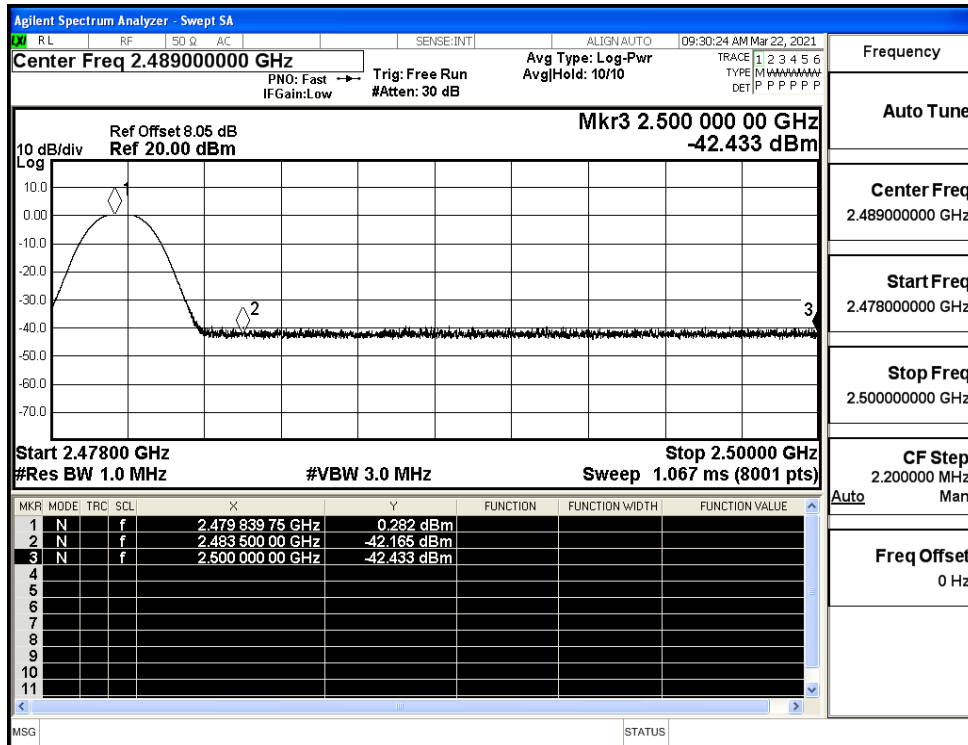
Restrict-band band-edge measurements_GFSK_2402_Ant1_PEAK



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

