

Appendix A

RF Test Data for 2.4G (Conducted Measurement)

Product Name: CC2500+CC1110_RF8

Trade Mark: AODELAN/Hanpusen

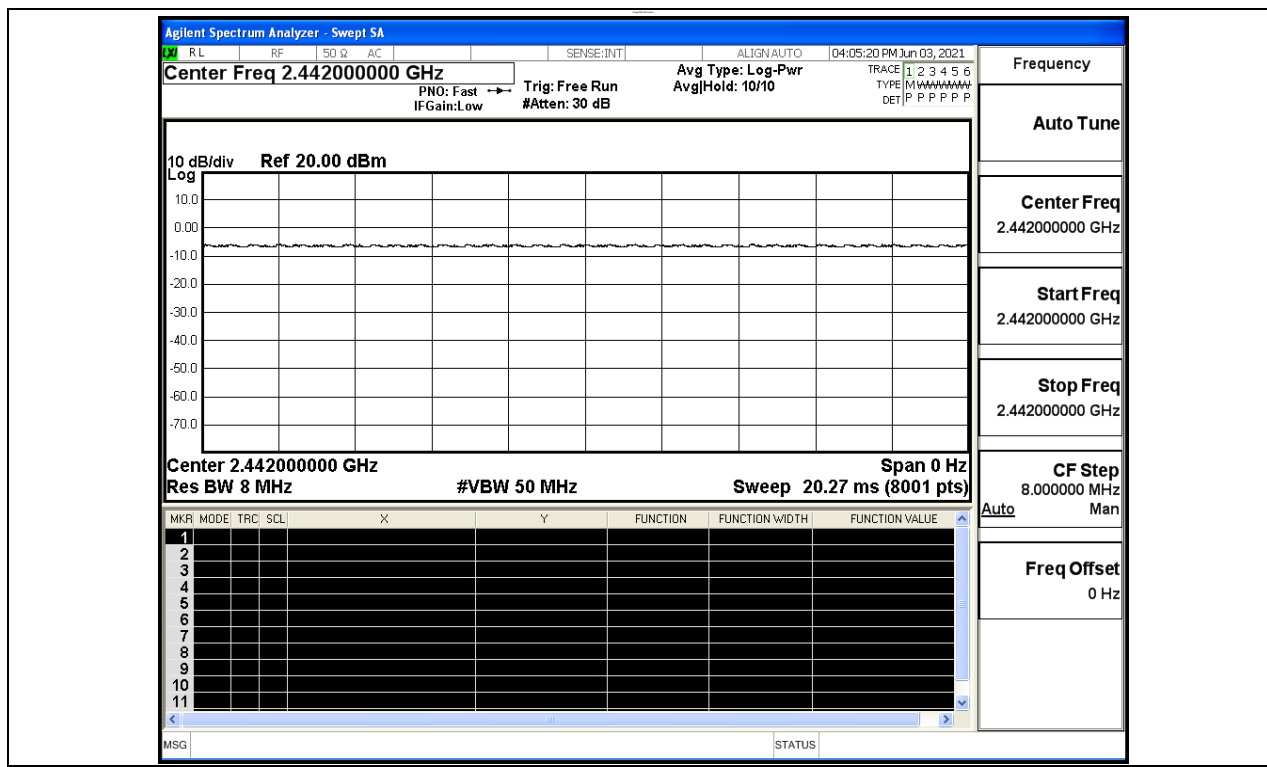
Test Model: RF8

Environmental Conditions

Temperature:	24.6 ° C
Relative Humidity:	54.1%
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
MSK	2442	Ant1	100	PASS



A.2 Maximum Conducted Peak Output Power

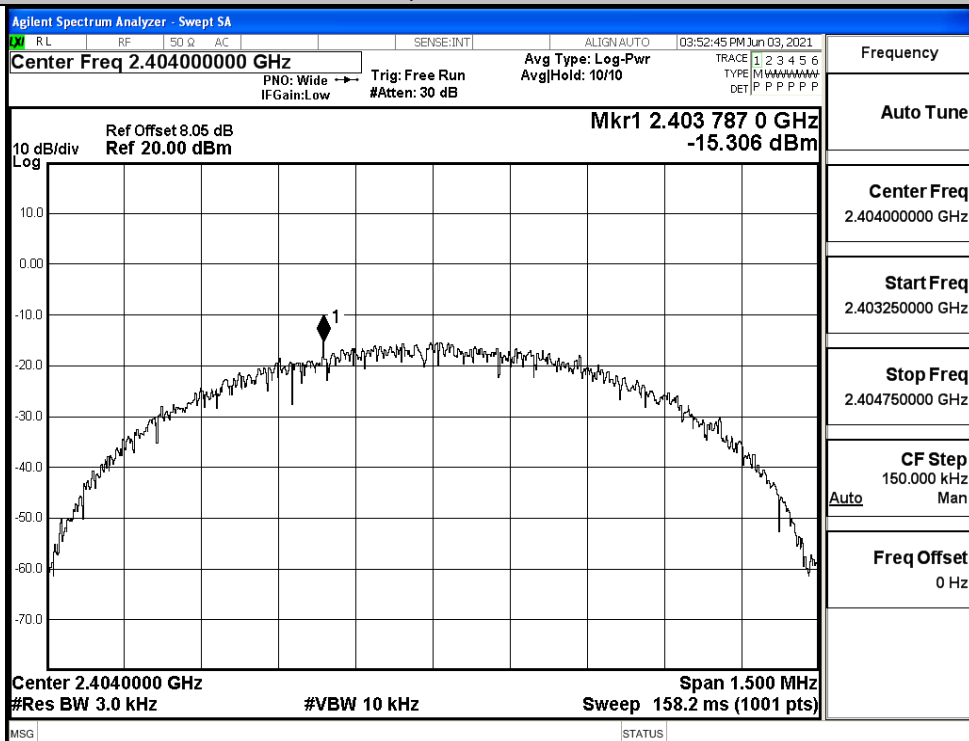
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
MSK	LCH	8.965	30	PASS
MSK	MCH	8.067	30	PASS
MSK	HCH	8.572	30	PASS

A.3 Maximum Power Spectral Density

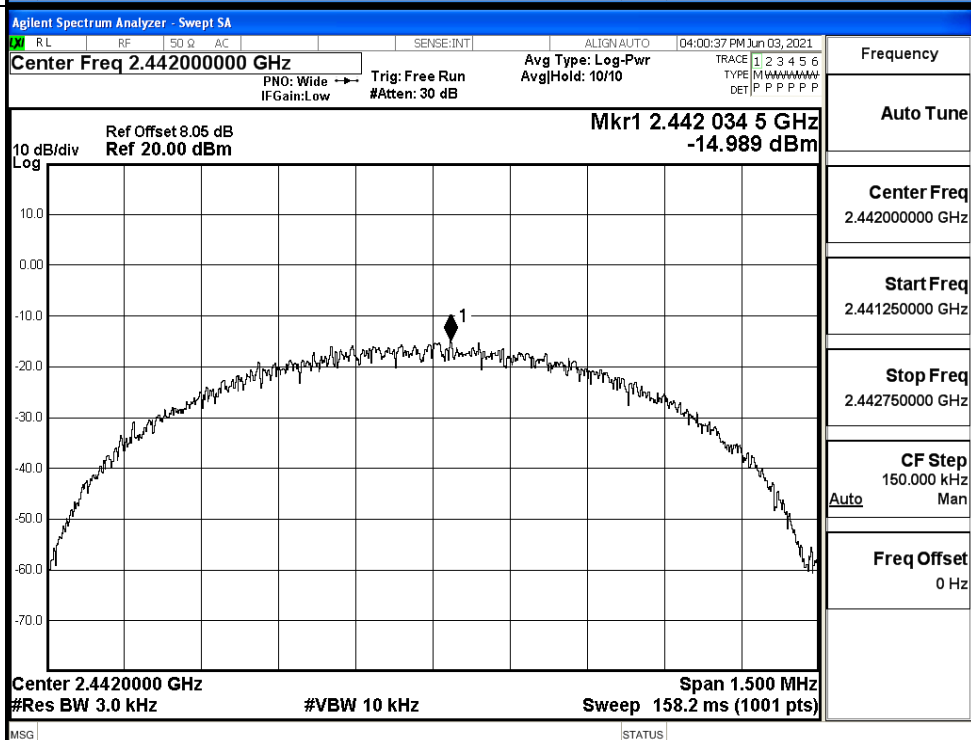
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
MSK	LCH	-15.306	8	PASS
MSK	MCH	-14.989	8	PASS
MSK	HCH	-13.914	8	PASS

Test Graphs

LCH



MCH



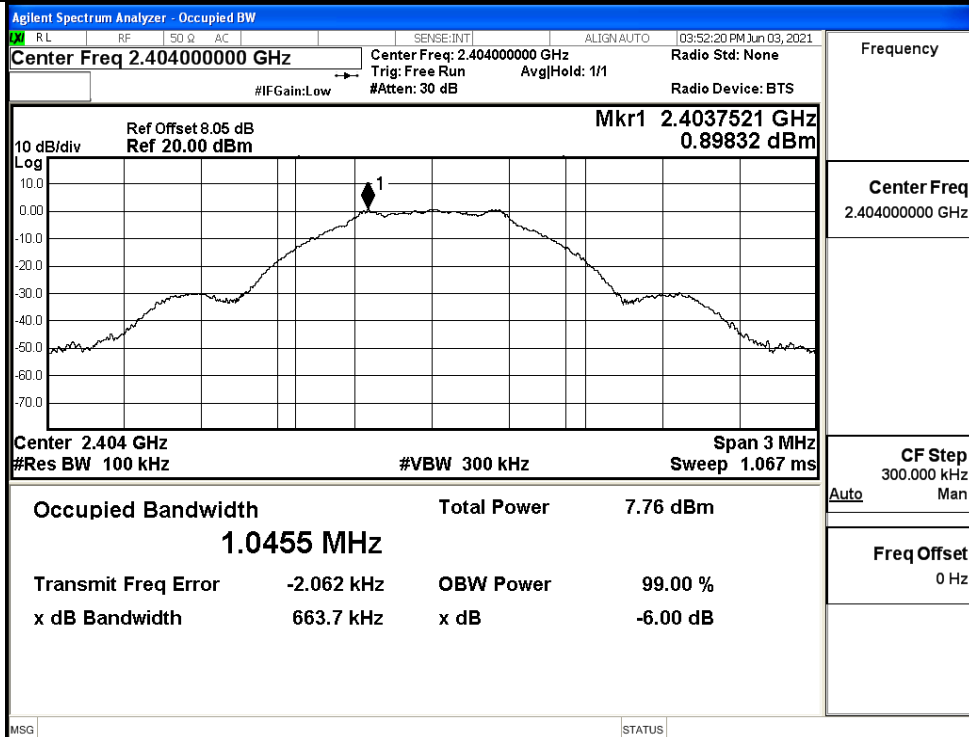


A.4 6dB Bandwidth

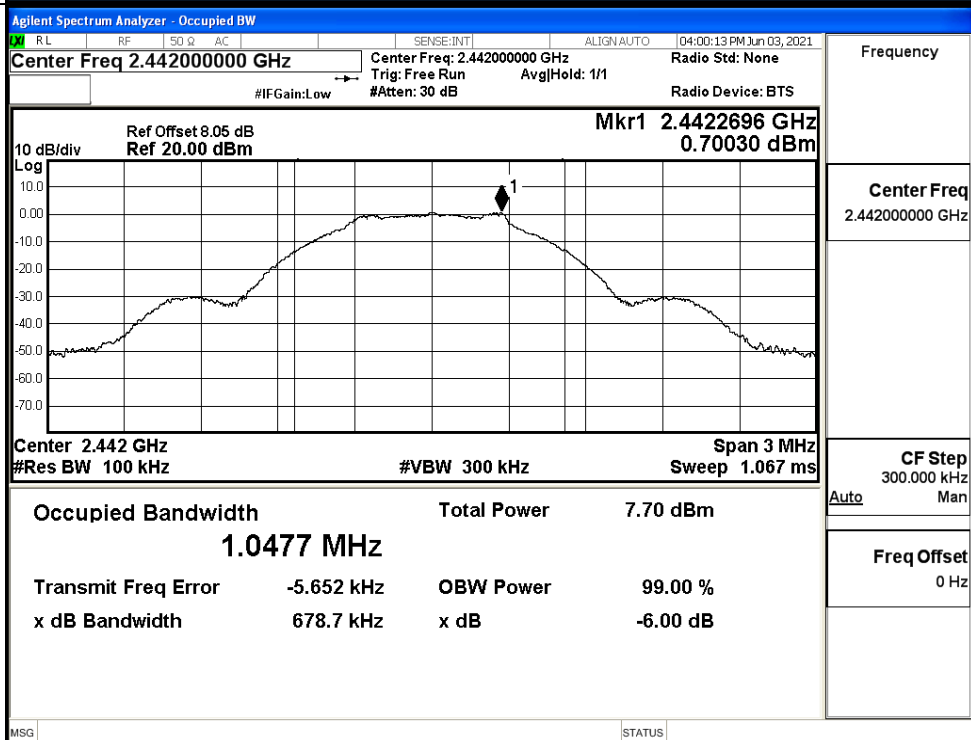
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
MSK	LCH	0.6637	≥ 0.5	PASS
MSK	MCH	0.6787	≥ 0.5	PASS
MSK	HCH	0.6859	≥ 0.5	PASS

Test Graphs

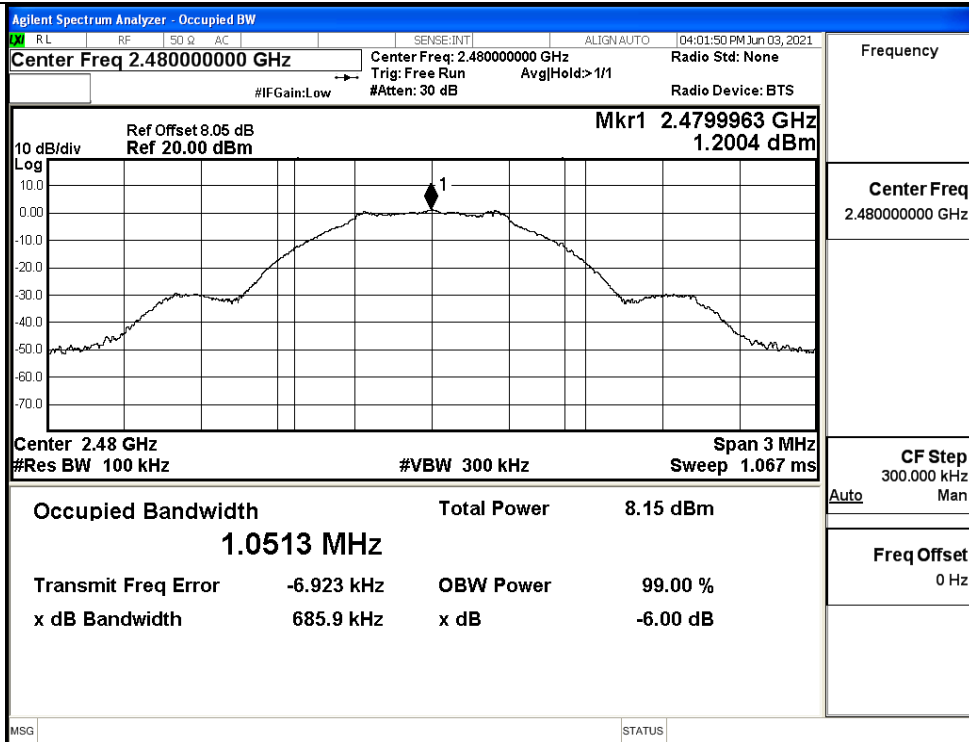
LCH



MCH



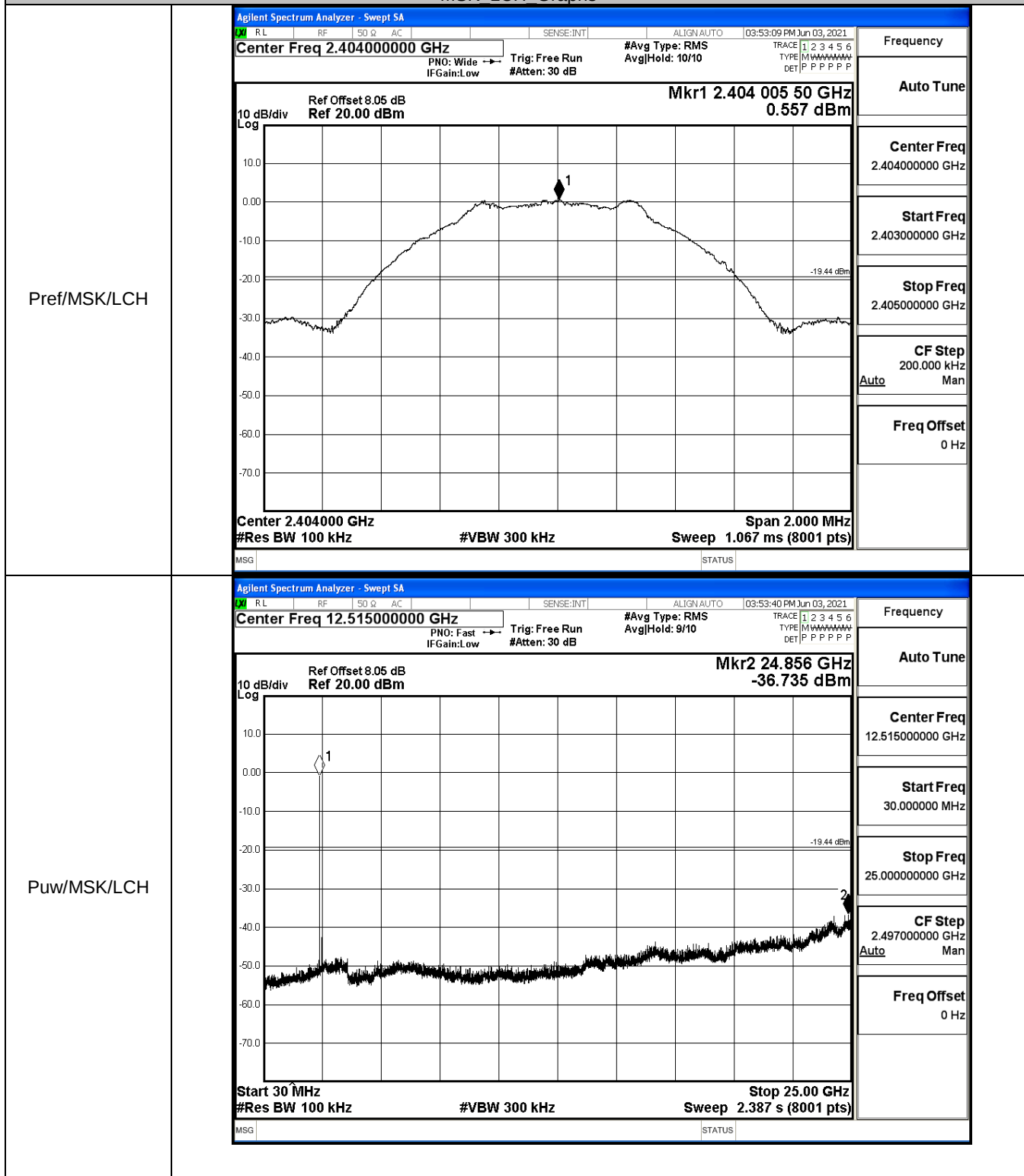
HCH



A.5 RF Conducted Spurious Emissions

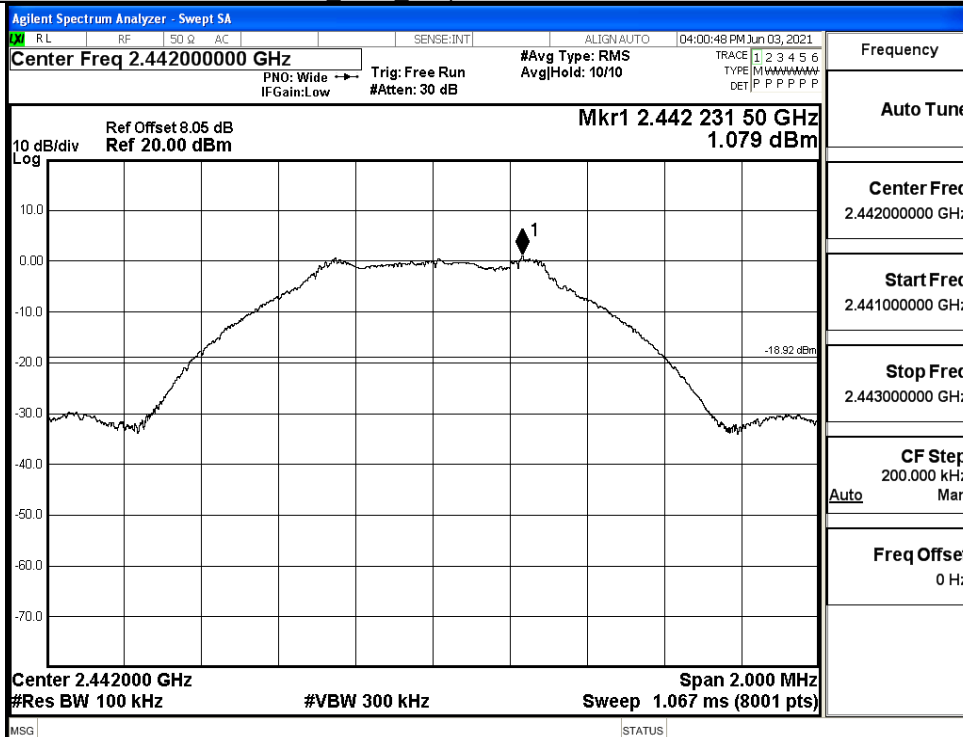
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
MSK	LCH	0.557	-36.735	-19.443	PASS
MSK	MCH	1.079	-37.463	-18.921	PASS
MSK	HCH	1.168	-37.308	-18.832	PASS

MSK LCH Graphs

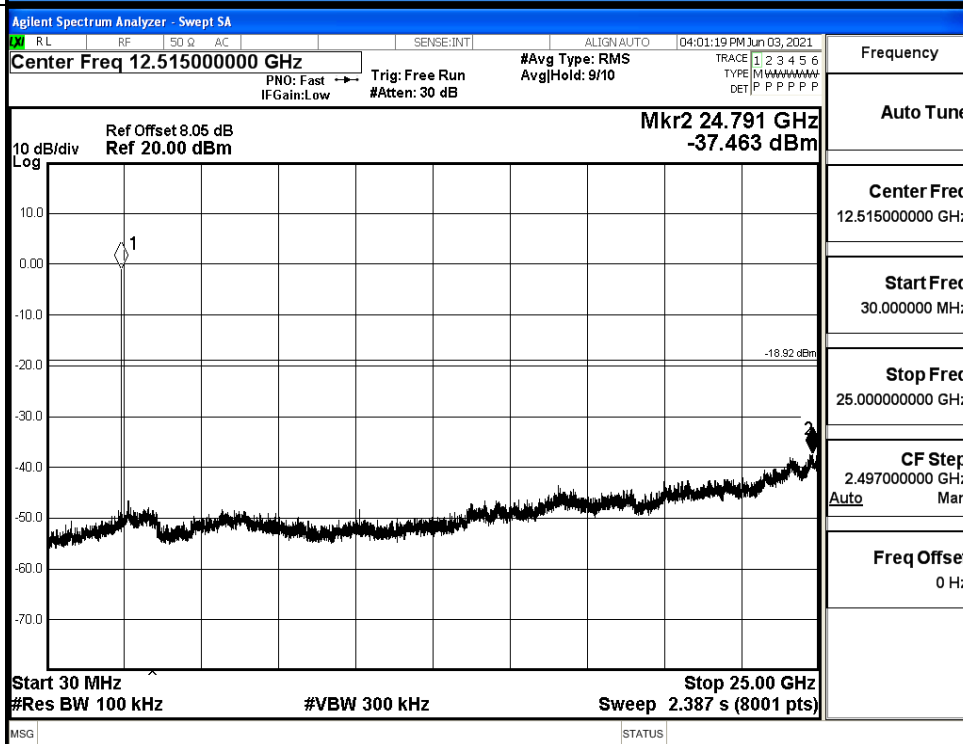


MSK MCH Graphs

Pref/MSK/MCH

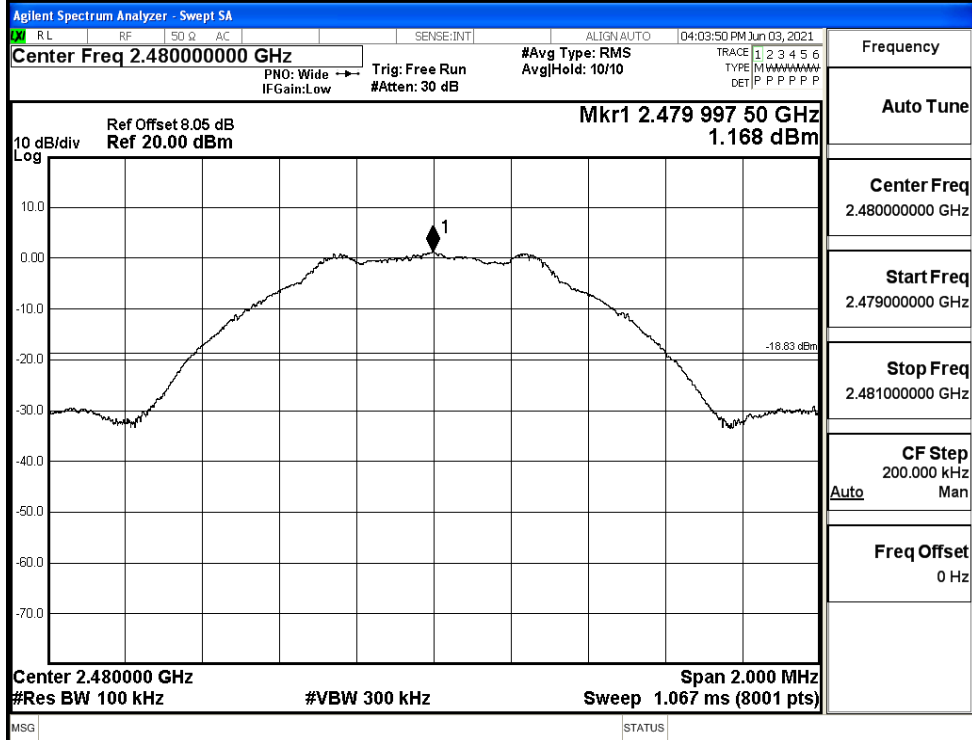


Puw/MSK/MCH

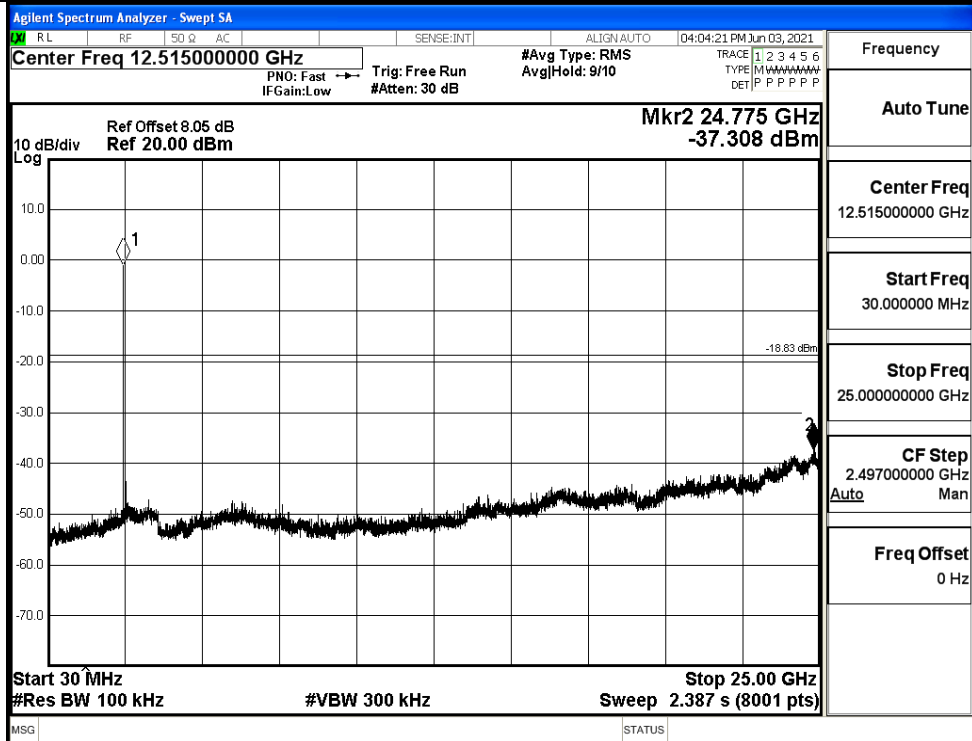


MSK_HCH_Graphs

Pref/MSK/HCH



Puw/MSK/HCH

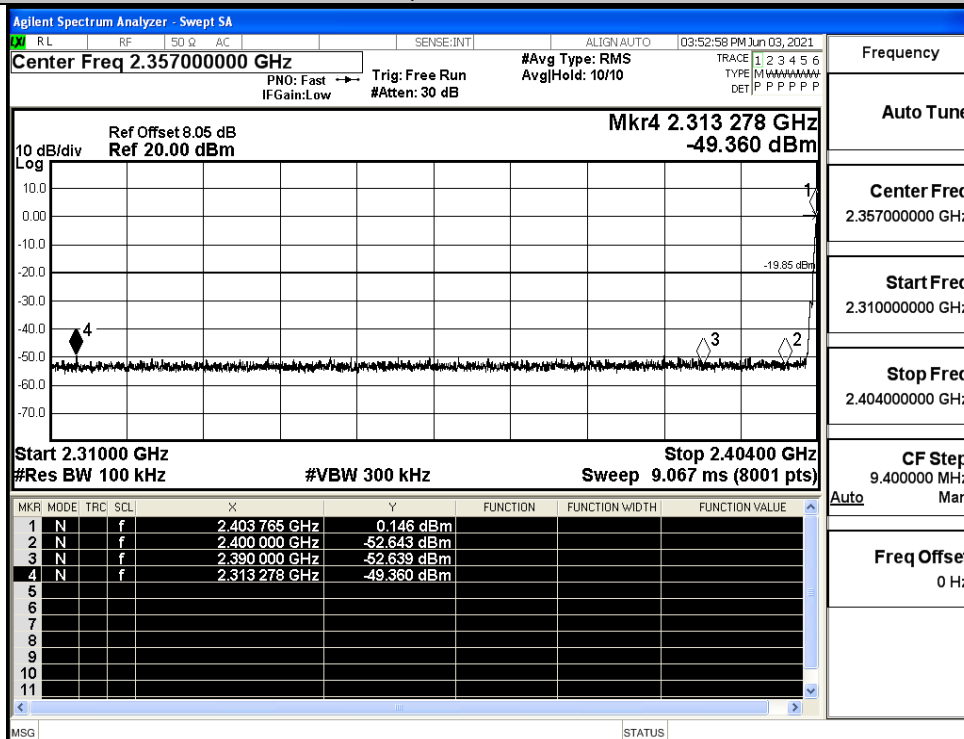


A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
MSK	LCH	0.146	-49.360	-19.85	PASS
MSK	HCH	1.251	-48.901	-18.75	PASS

Test Graphs

LCH

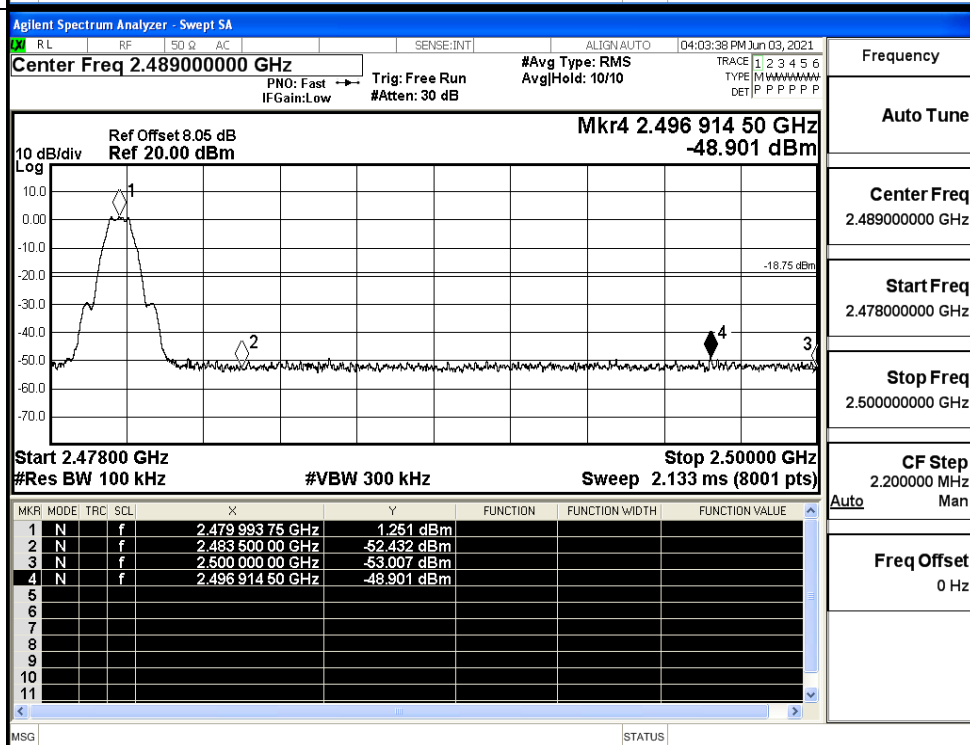


Frequency

Auto Tune

Center Freq
2.357000000 GHzStart Freq
2.310000000 GHzStop Freq
2.404000000 GHzCF Step
9.400000 MHz
Auto ManFreq Offset
0 Hz

HCH



Frequency

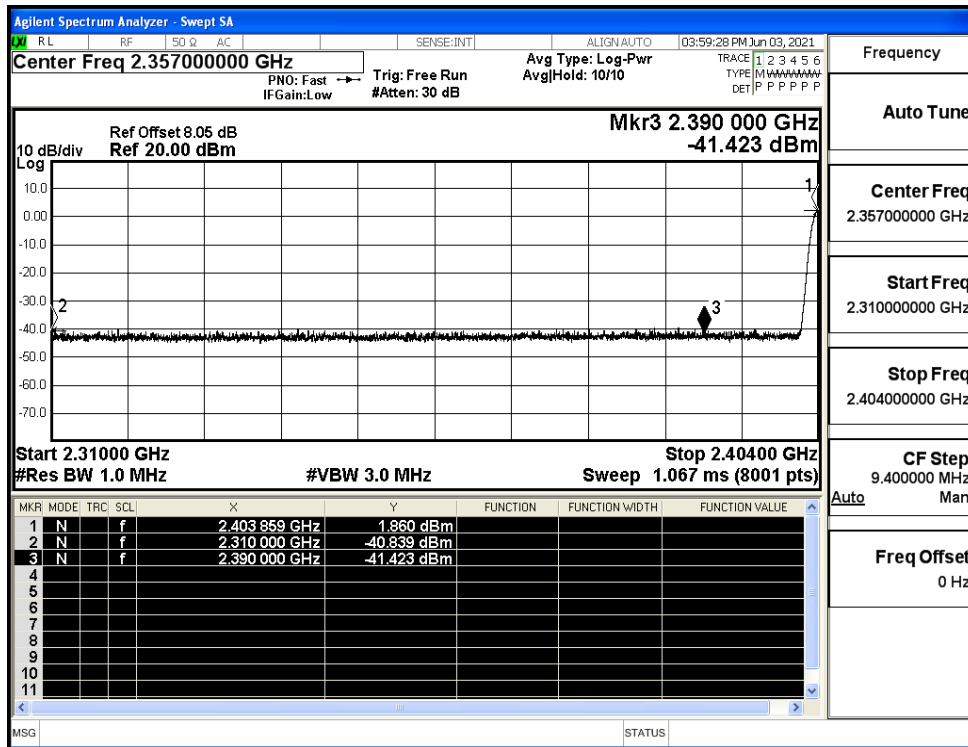
Auto Tune

Center Freq
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2.478000000 GHzStop Freq
2.500000000 GHzCF Step
2.200000 MHz
Auto ManFreq Offset
0 Hz

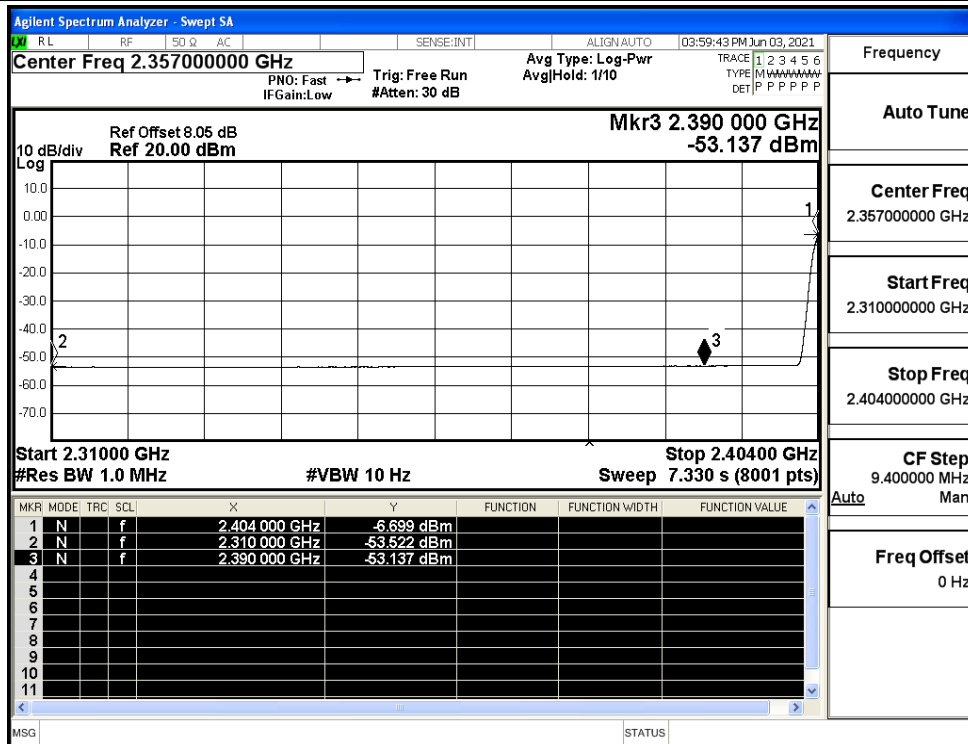
A.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
MSK	2404	Ant1	2310.0	-40.84	3.0	0	57.39	PEAK	74	PASS
		Ant1	2310.0	-53.52	3.0	0	44.71	AV	54	PASS
		Ant1	2390.0	-41.42	3.0	0	56.81	PEAK	74	PASS
		Ant1	2390.0	-53.14	3.0	0	45.09	AV	54	PASS
	2480	Ant1	2483.5	-42.25	3.0	0	55.98	PEAK	74	PASS
		Ant1	2483.5	-52.56	3.0	0	45.67	AV	54	PASS
		Ant1	2500.0	-41.15	3.0	0	57.08	PEAK	74	PASS
		Ant1	2500.0	-52.47	3.0	0	45.76	AV	54	PASS

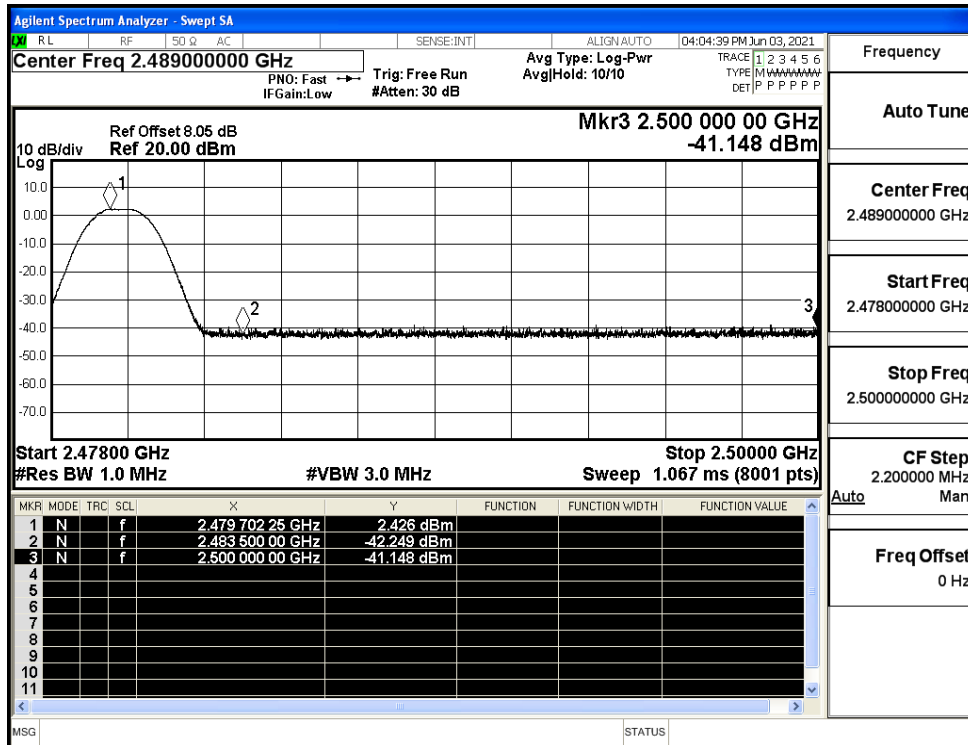
Restrict-band band-edge measurements_MSK_2404_Ant1_PEAK



Restrict-band band-edge measurements_MSK_2404_Ant1_AV



Restrict-band band-edge measurements_MSK_2480_Ant1_PEAK



Restrict-band band-edge measurements_MSK_2480_Ant1_AV

