

Appendix A

RF Test Data for BT V4.2 (Conducted Measurement)

Product Name: LED Ceiling Lamp

Trade Mark: N/A

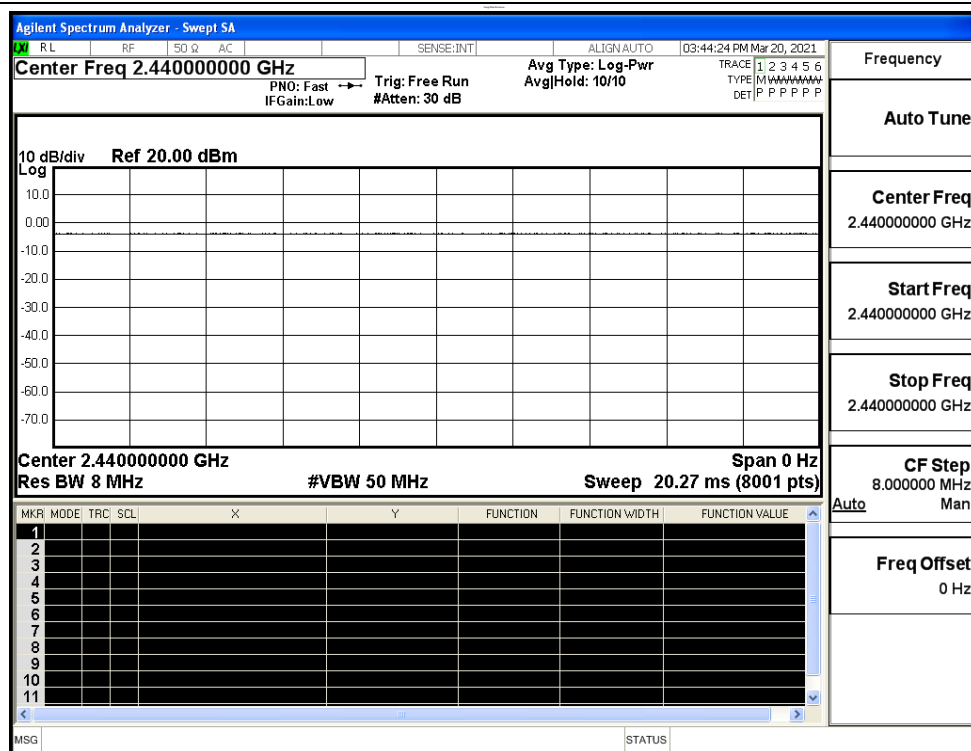
Test Model: XDD-01

Environmental Conditions

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

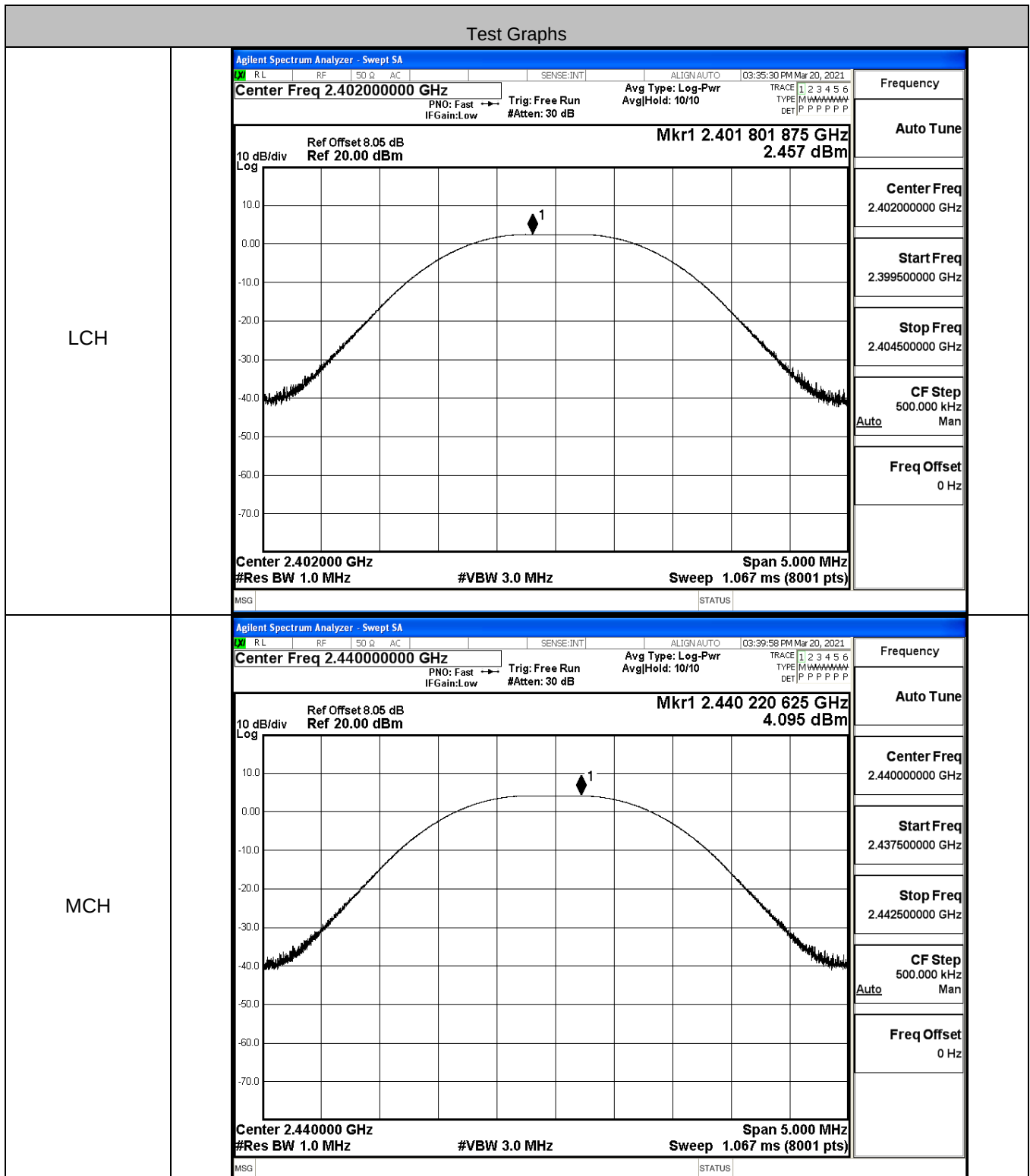
A.1 Duty Cycle

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

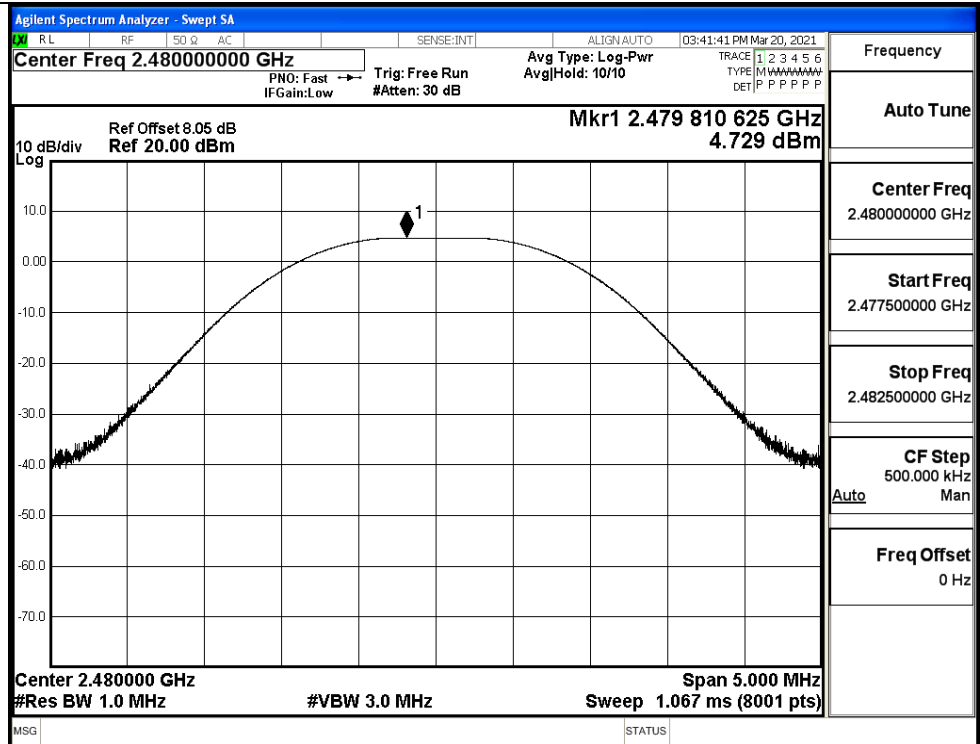


A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.457	30	PASS
BT LE	MCH	4.095	30	PASS
BT LE	HCH	4.729	30	PASS



HCH

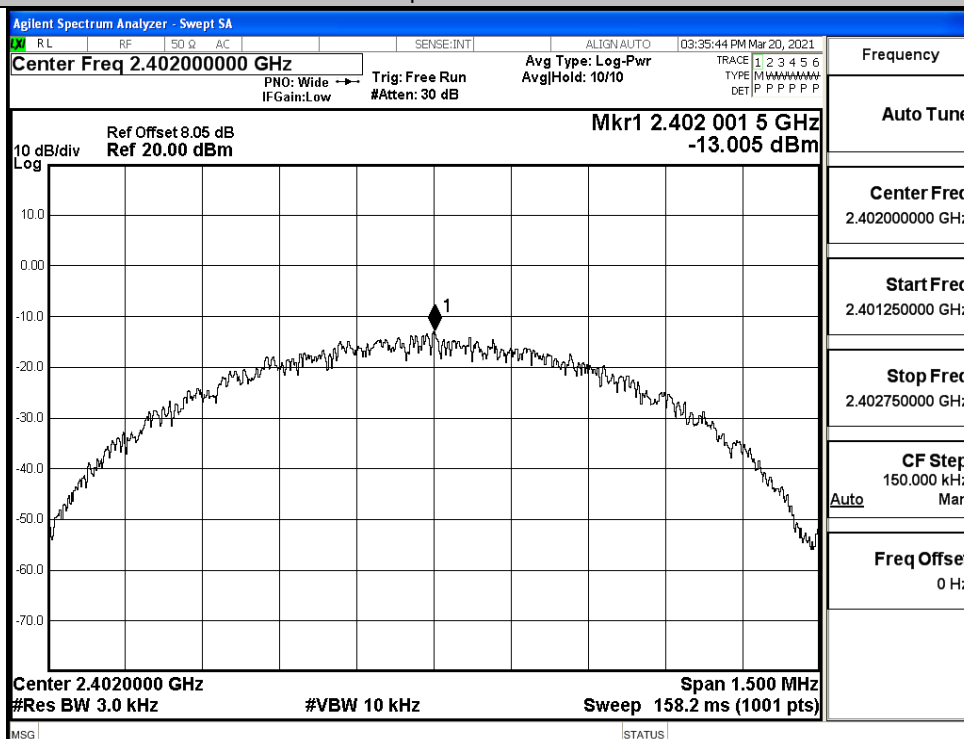


A.3 Maximum Power Spectral Density

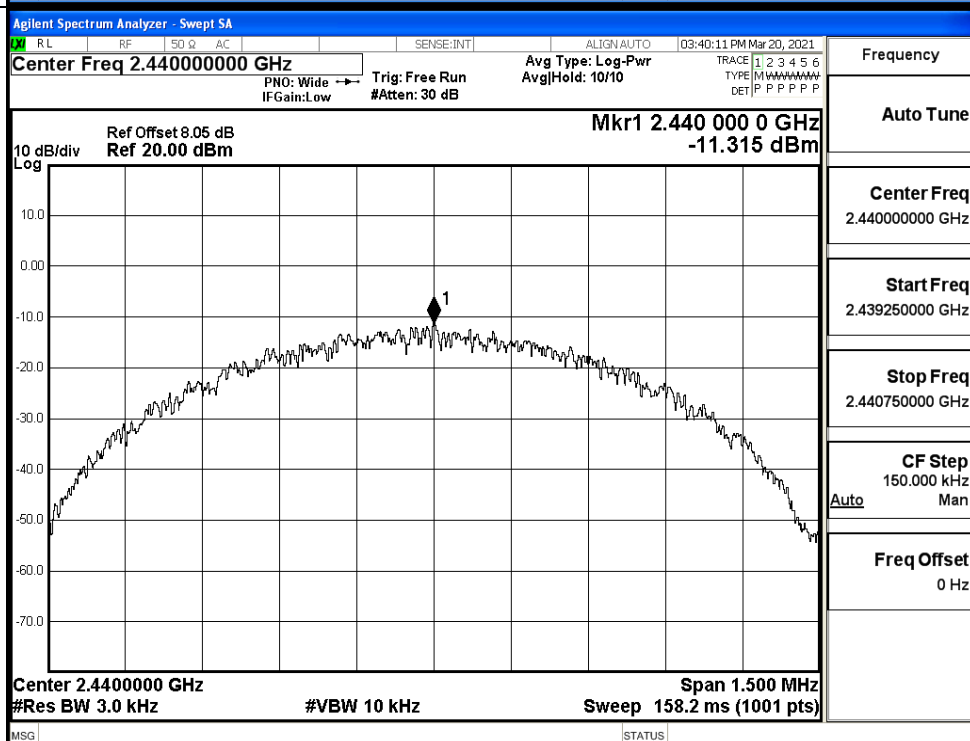
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-13.005	8	PASS
BT LE	MCH	-11.315	8	PASS
BT LE	HCH	-10.799	8	PASS

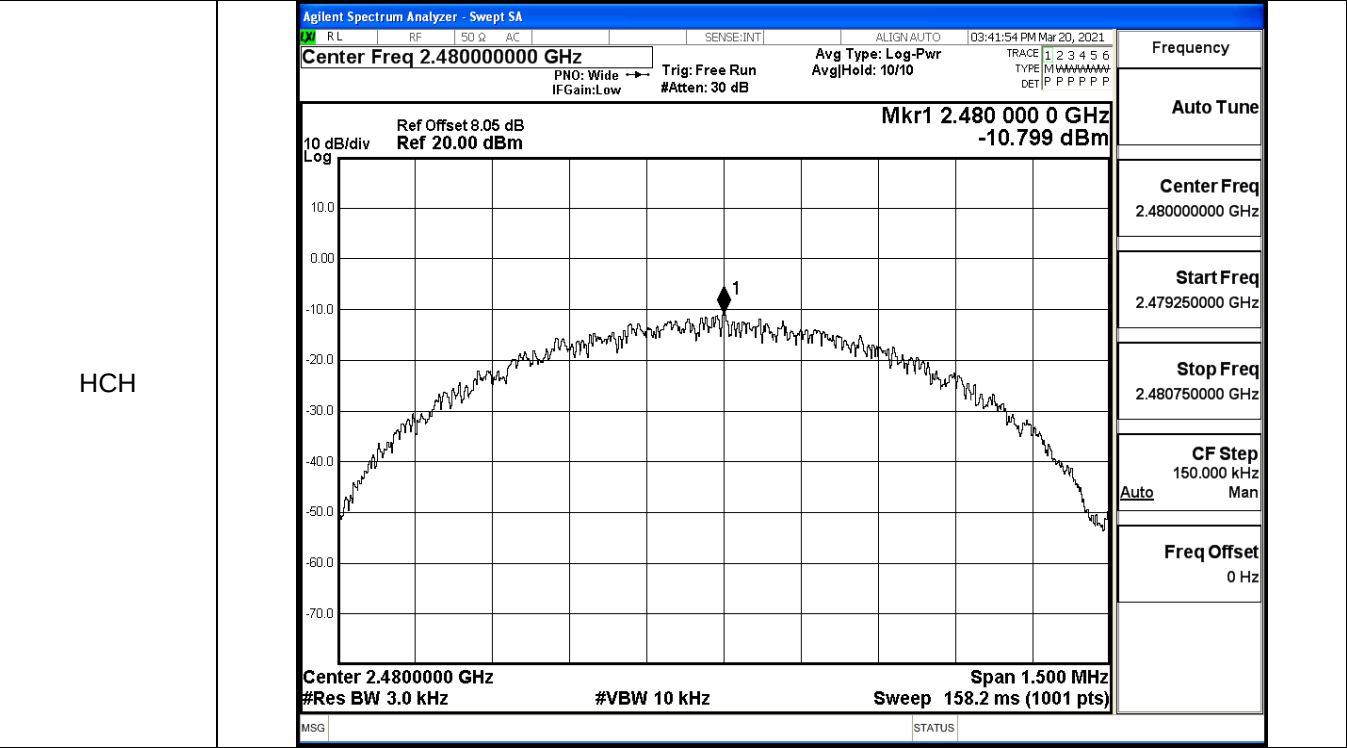
Test Graphs

LCH



MCH



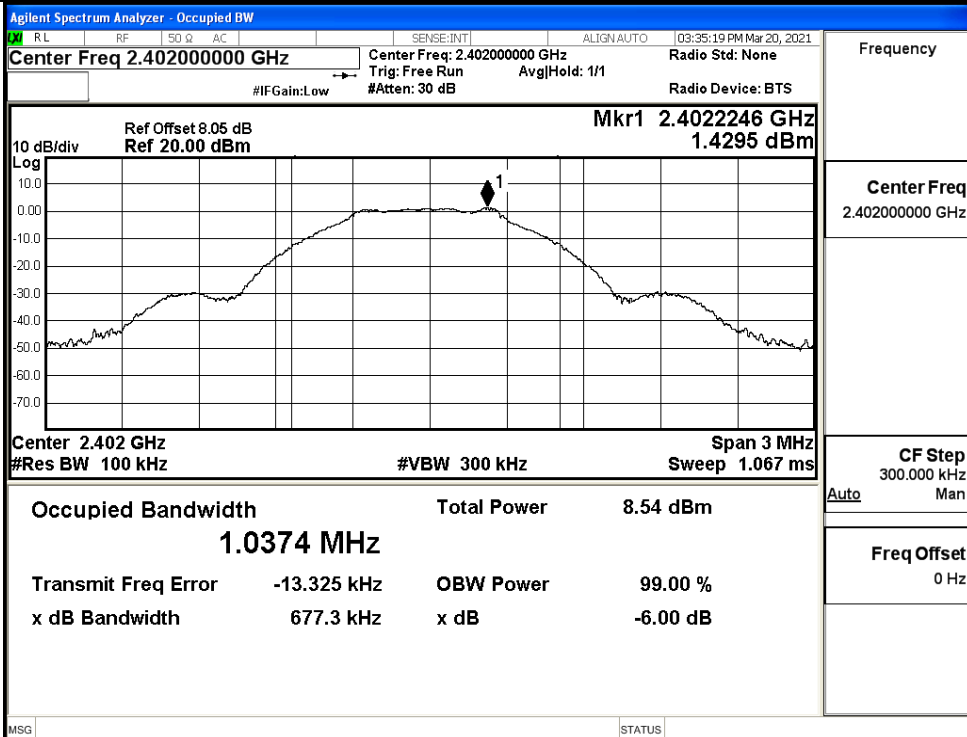


A.4 6dB Bandwidth

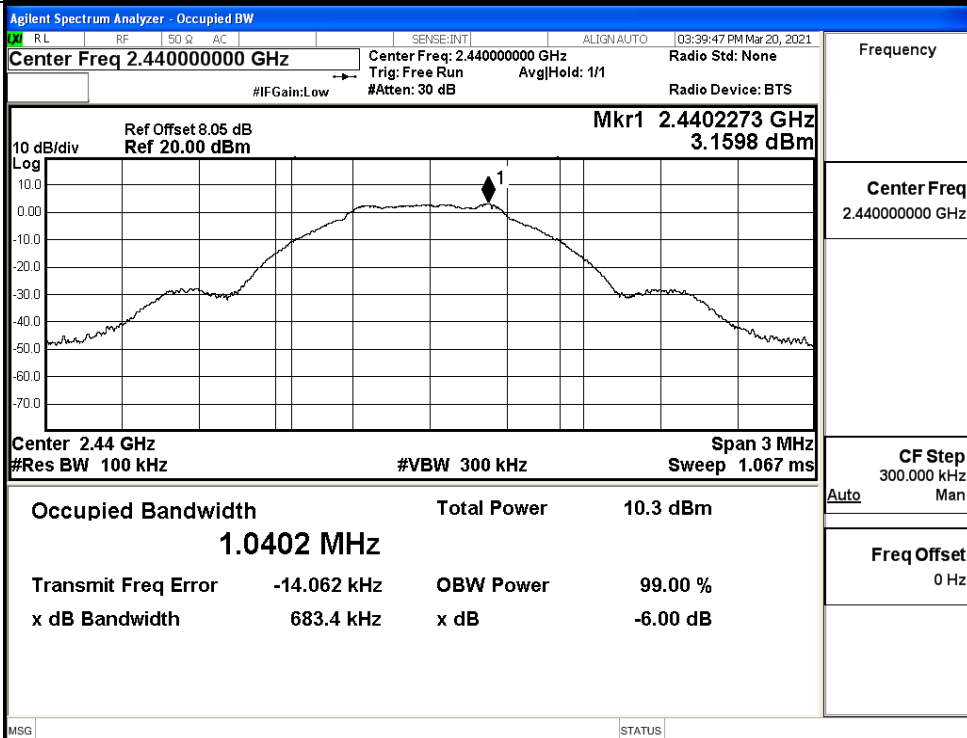
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6773	≥ 0.5	PASS
BT LE	MCH	0.6834	≥ 0.5	PASS
BT LE	HCH	0.6740	≥ 0.5	PASS

Test Graphs

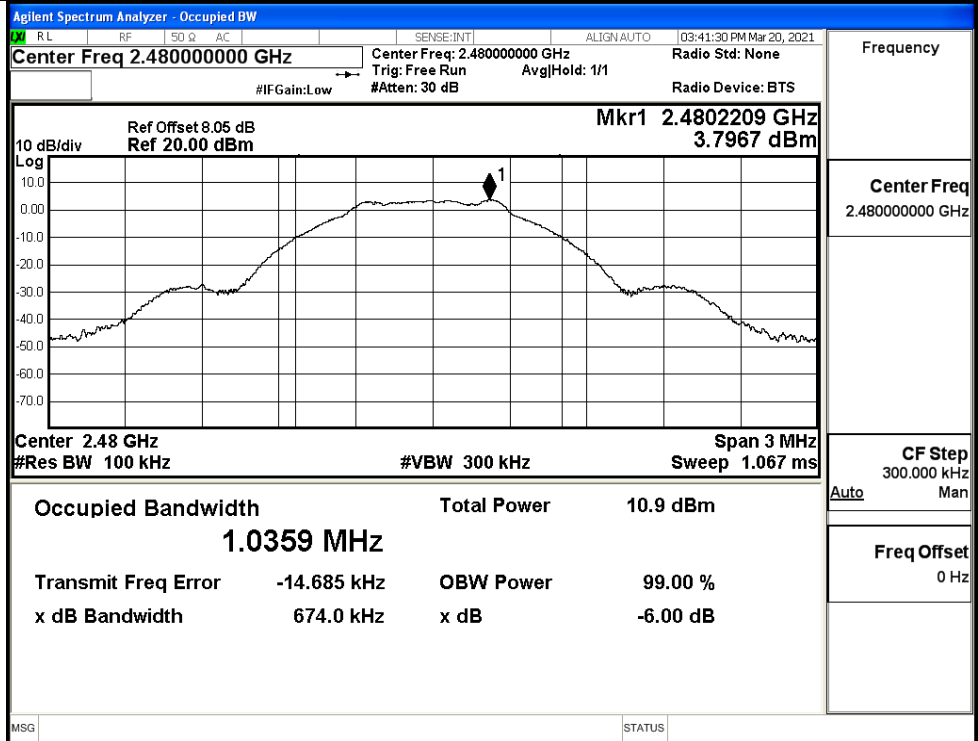
LCH



MCH



HCH

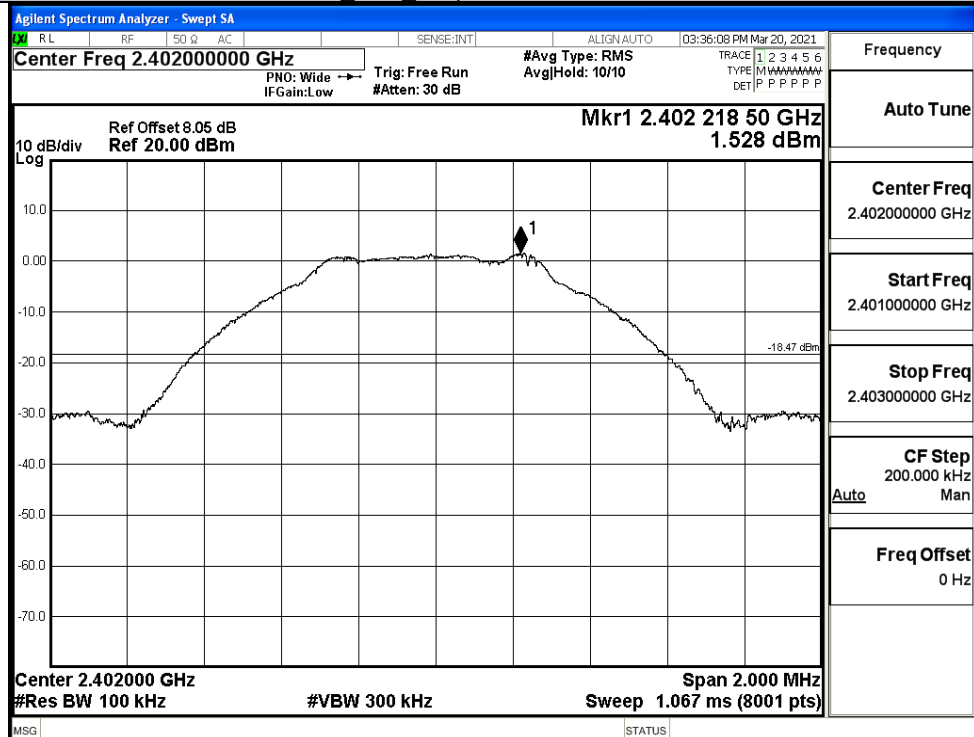


A.5 RF Conducted Spurious Emissions

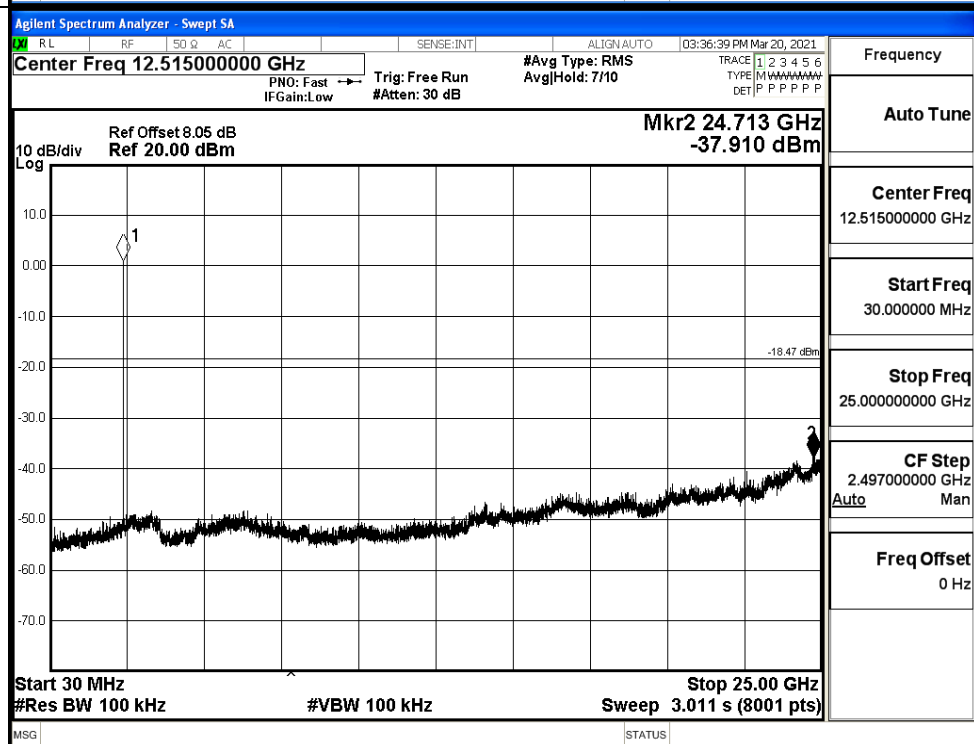
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.528	-37.910	-18.472	PASS
BT LE	MCH	3.123	-37.842	-16.877	PASS
BT LE	HCH	3.794	-38.281	-16.206	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

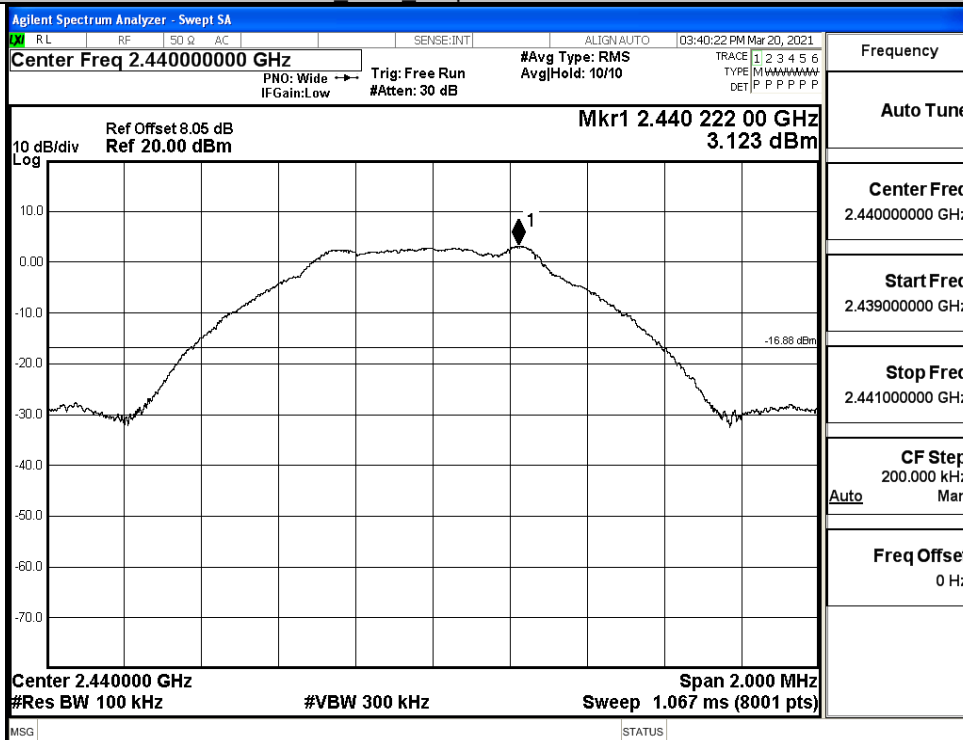


Puw/BT LE/LCH

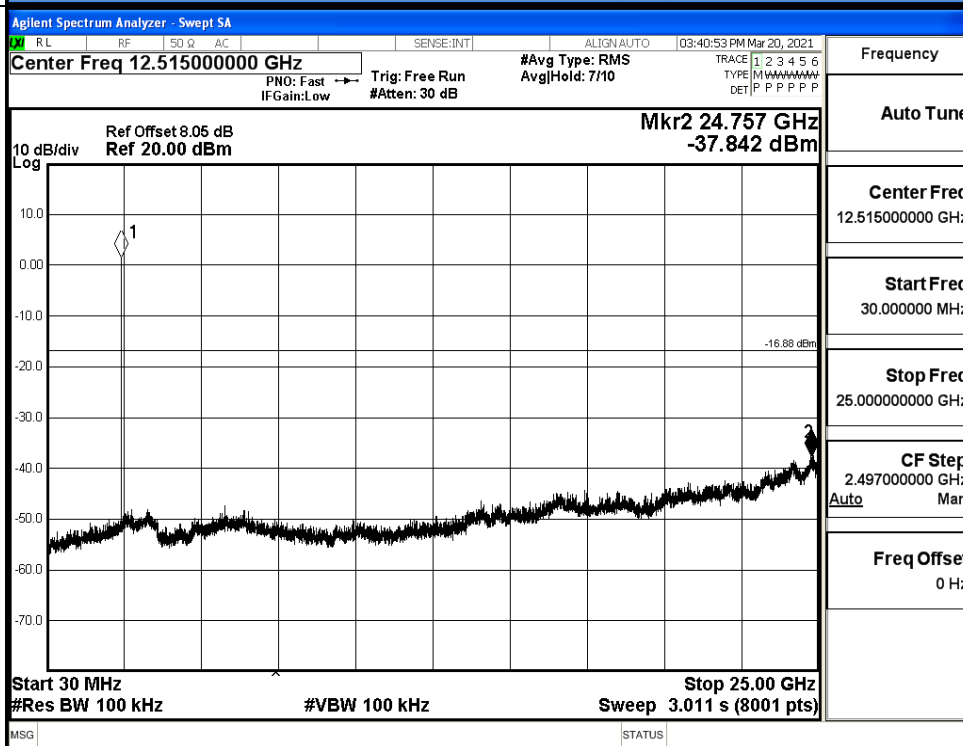


BT LE MCH Graphs

Pref/BT LE/MCH

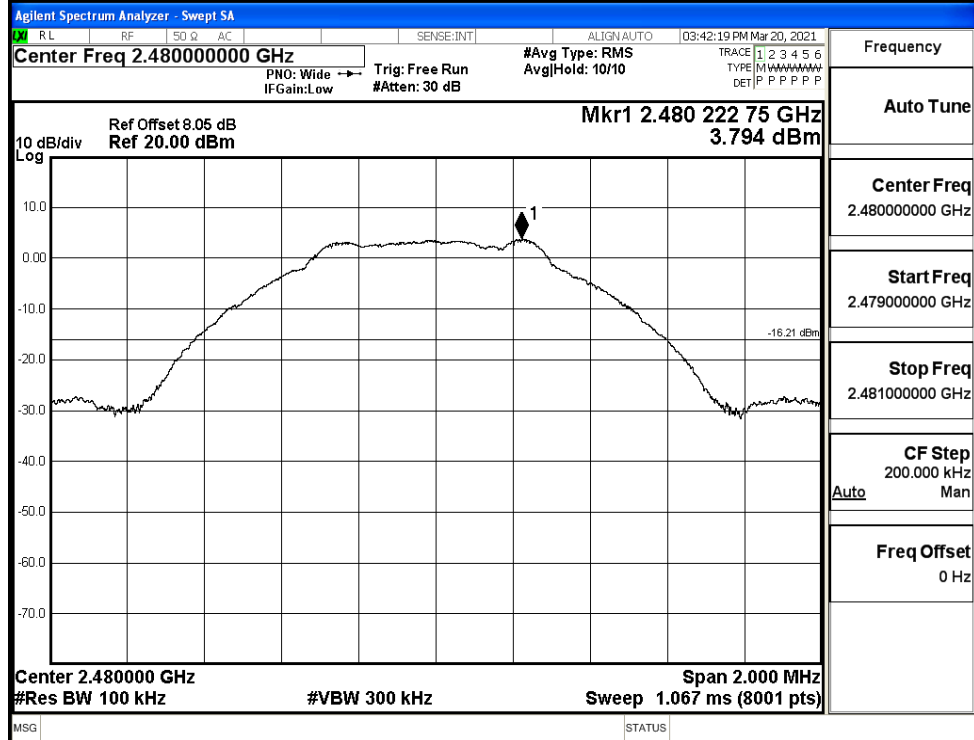


Puw/BT LE/MCH

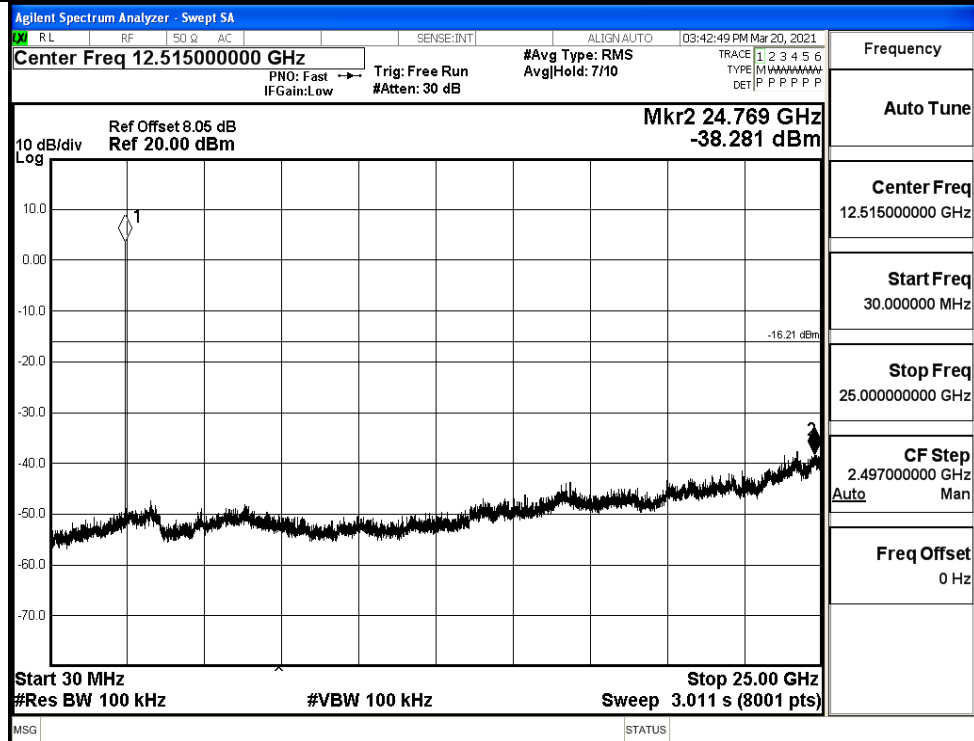


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

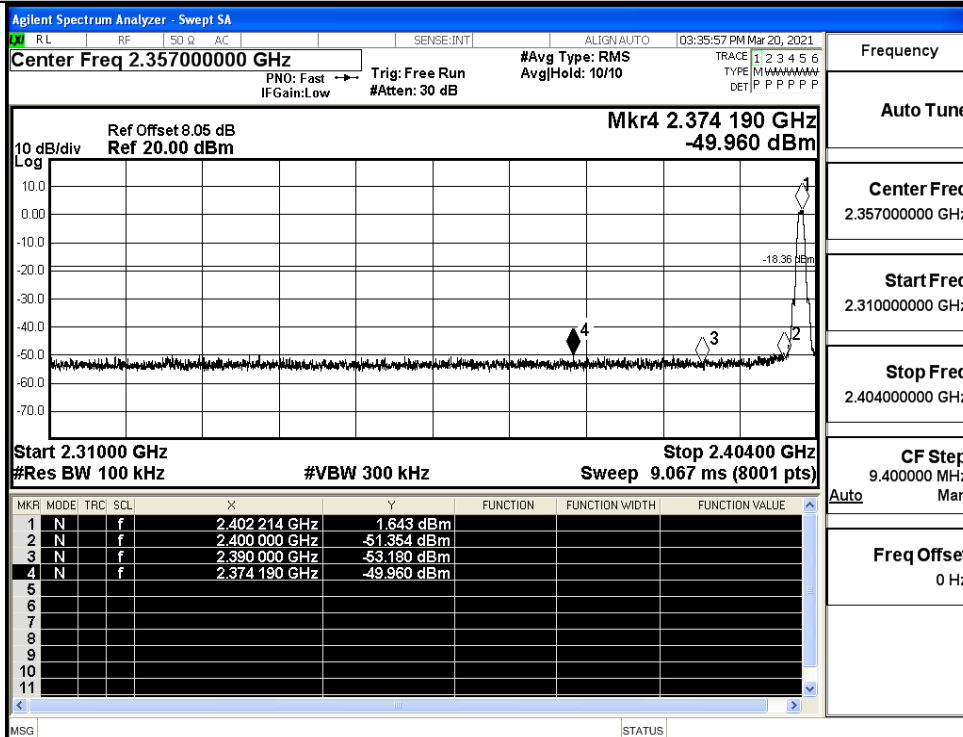


A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.643	-49.960	-18.36	PASS
BT LE	HCH	4.029	-48.623	-15.97	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

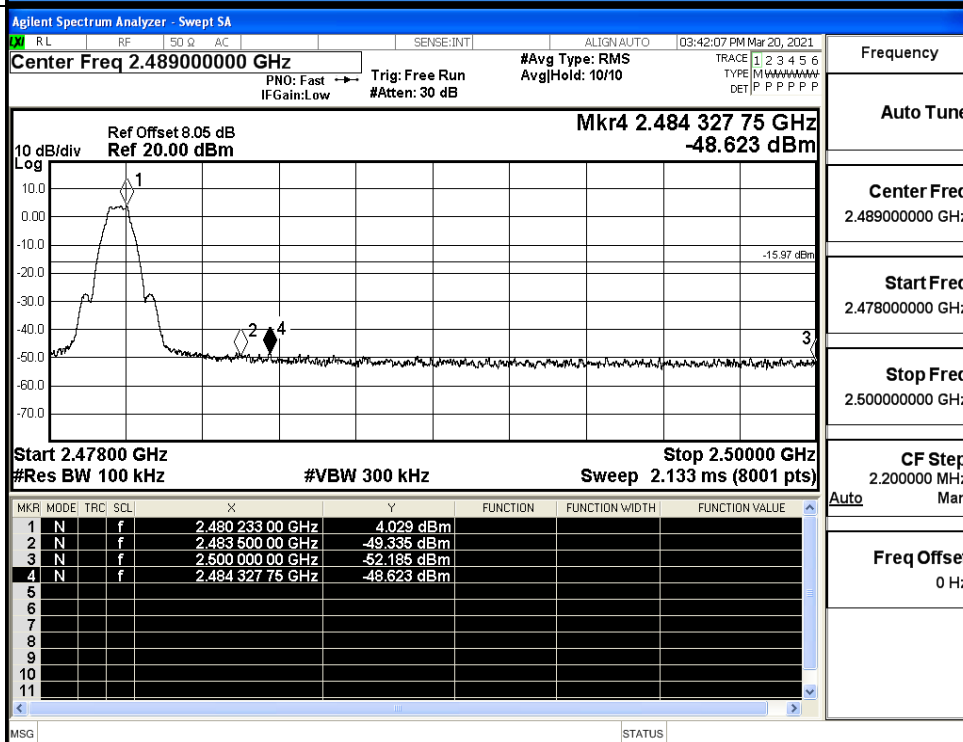
9.400000 MHz

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

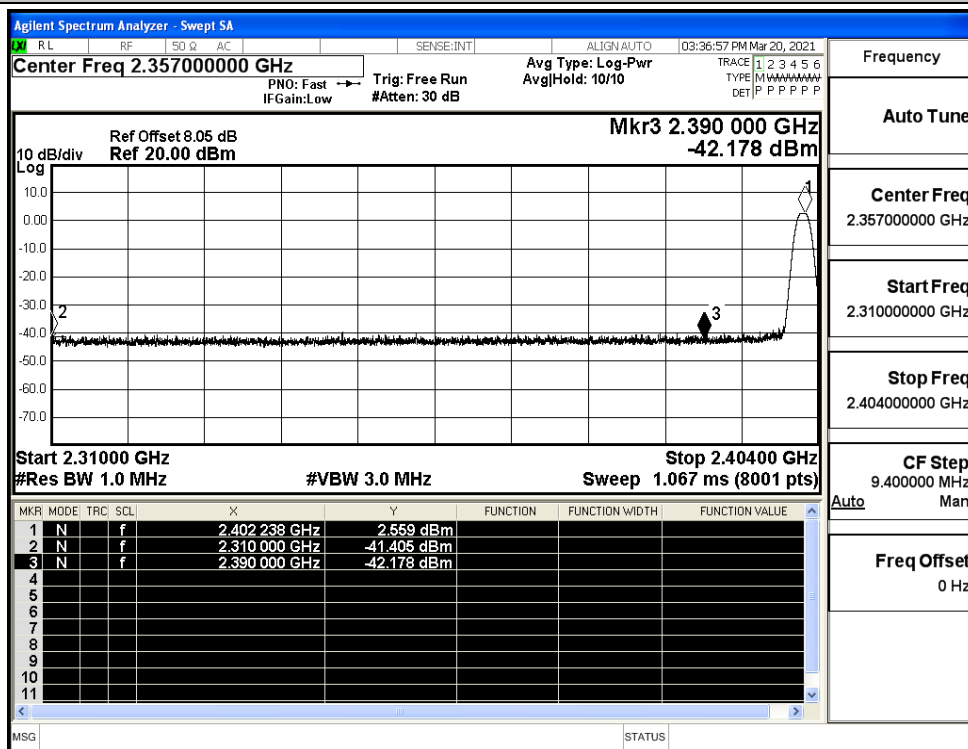
Freq Offset

0 Hz

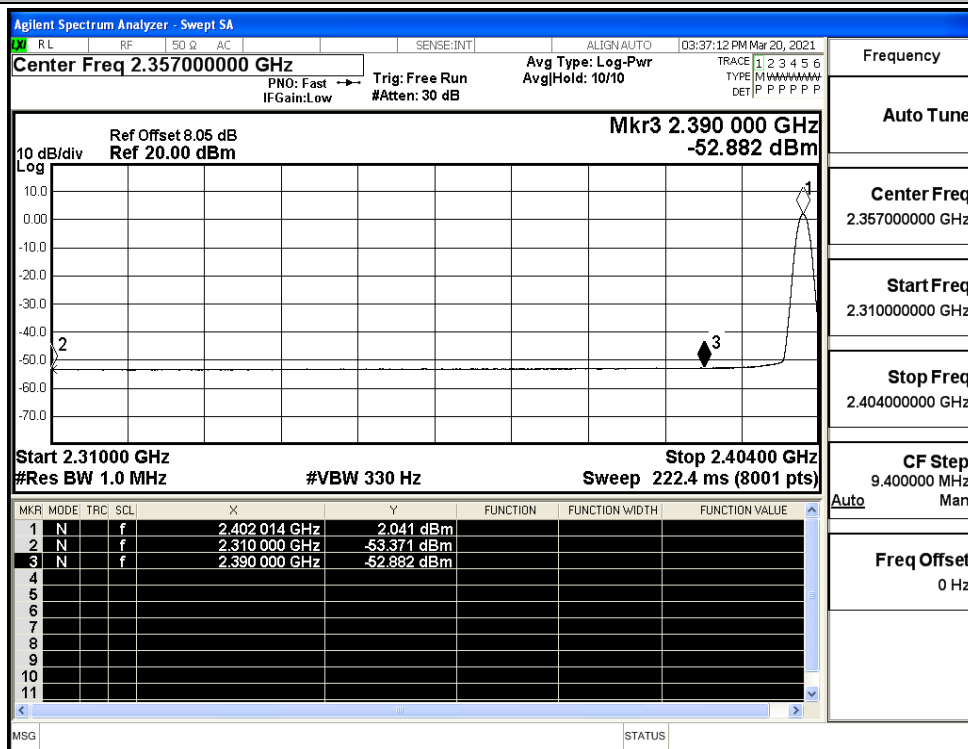
A.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-41.41	2.0	0	55.85	PEAK	74	PASS
		Ant1	2310.0	-53.37	2.0	0	43.89	AV	54	PASS
		Ant1	2390.0	-42.18	2.0	0	55.08	PEAK	74	PASS
		Ant1	2390.0	-52.88	2.0	0	44.38	AV	54	PASS
	2480	Ant1	2483.5	-39.32	2.0	0	57.94	PEAK	74	PASS
		Ant1	2483.5	-50.22	2.0	0	47.04	AV	54	PASS
		Ant1	2500.0	-42.03	2.0	0	55.23	PEAK	74	PASS
		Ant1	2500.0	-52.23	2.0	0	45.03	AV	54	PASS

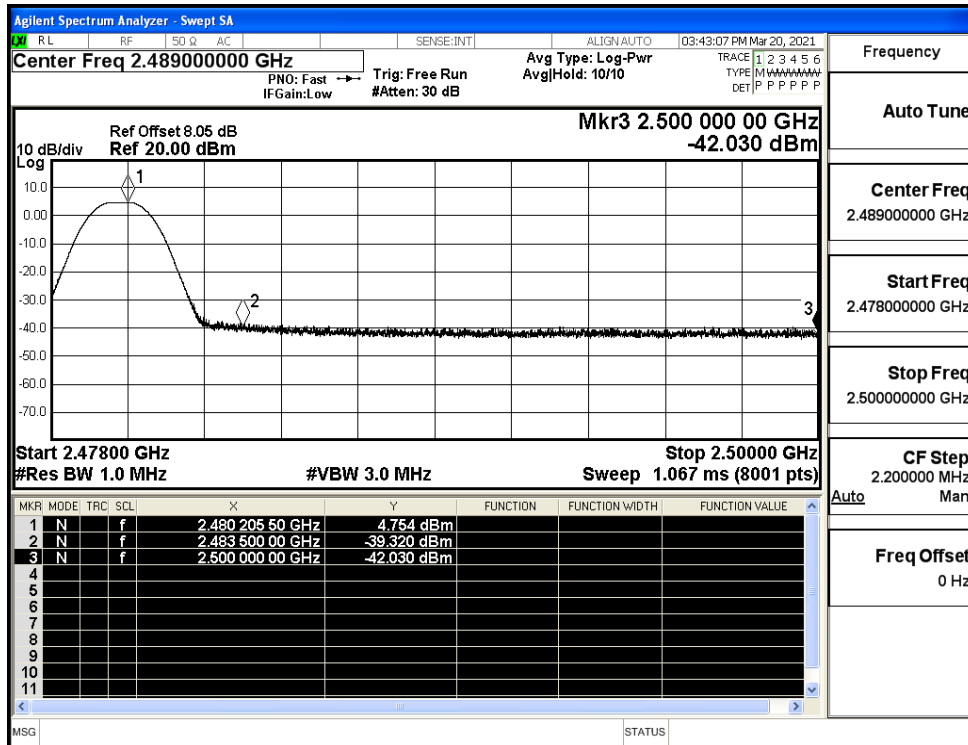
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



Restrict-band band-edge measurements_BT LE_2402_Ant1_AV



Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK



Restrict-band band-edge measurements_BT LE_2480_Ant1_AV

