

Appendix B

RF Test Data for BT V5.0(BT LE) (Conducted Measurement)

Product Name: Remote Control Car

Trade Mark: HELIWAY

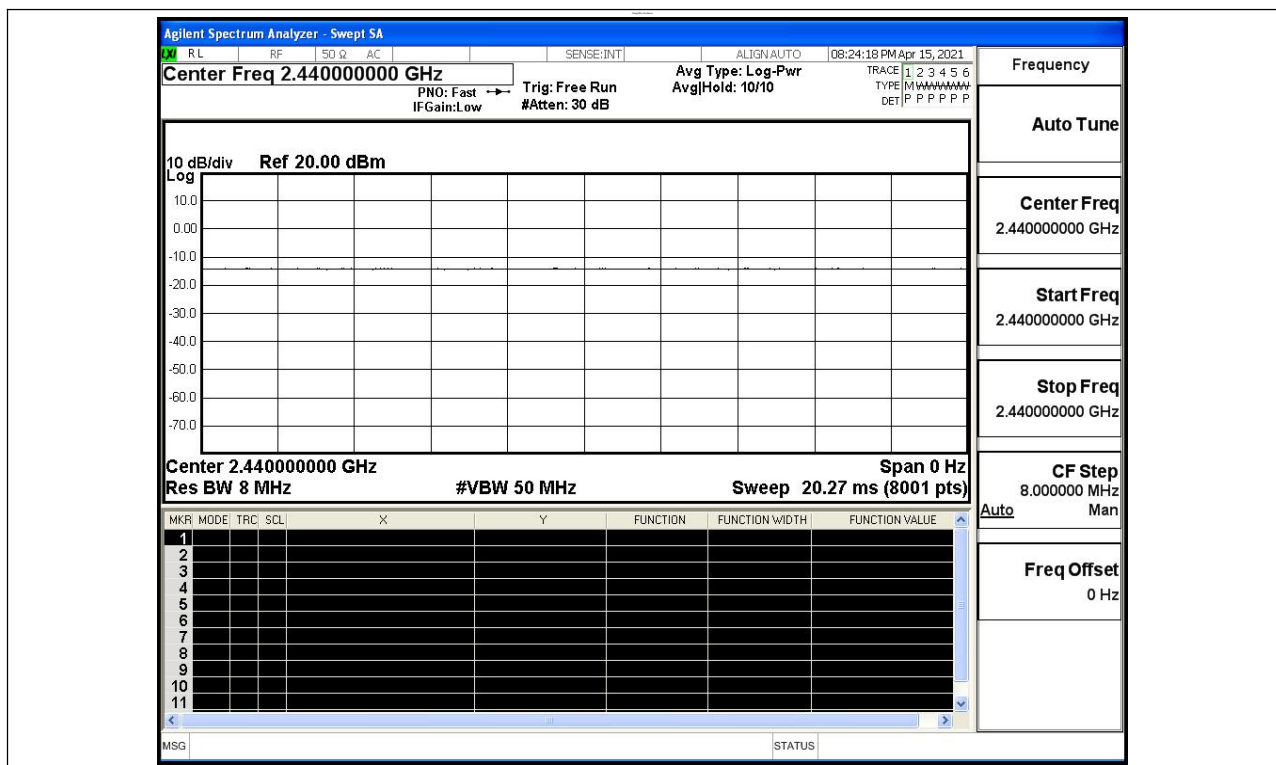
Test Model: F6BC

Environmental Conditions

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

B.1 Duty Cycle

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

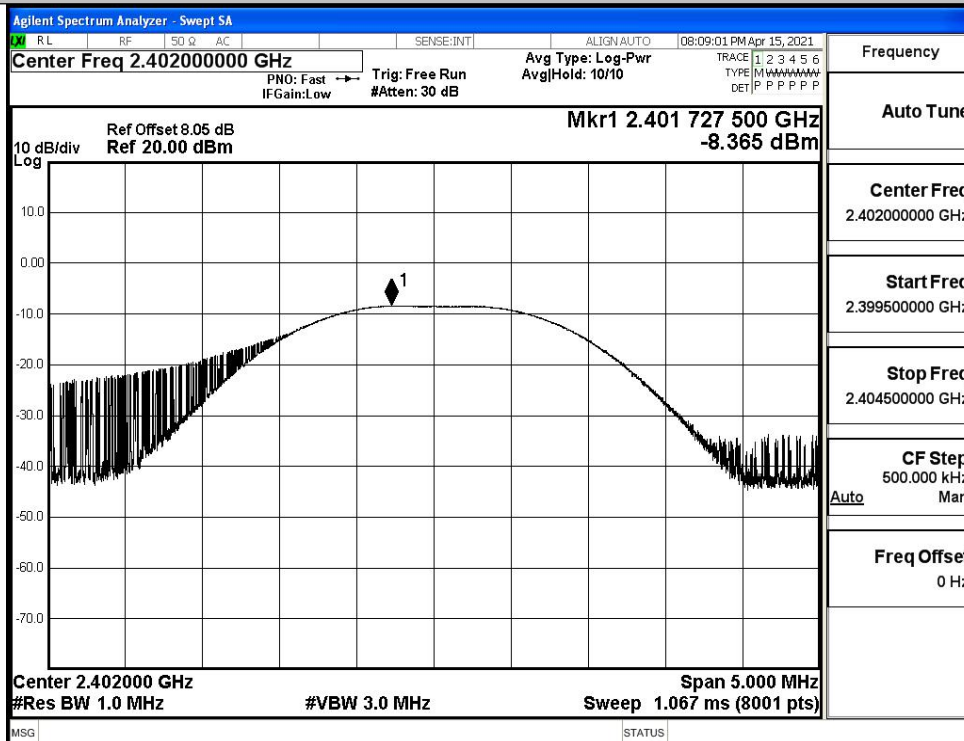


B.2 Maximum Conducted Peak Output Power

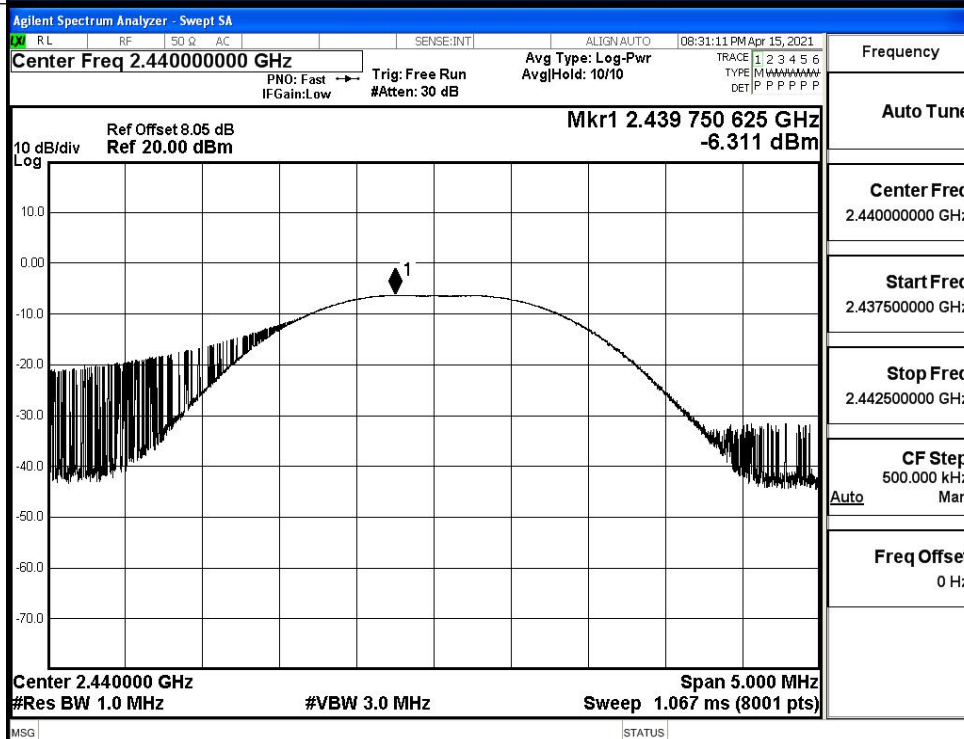
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-8.365	30	PASS
BT LE	MCH	-6.311	30	PASS
BT LE	HCH	-6.108	30	PASS

Test Graphs

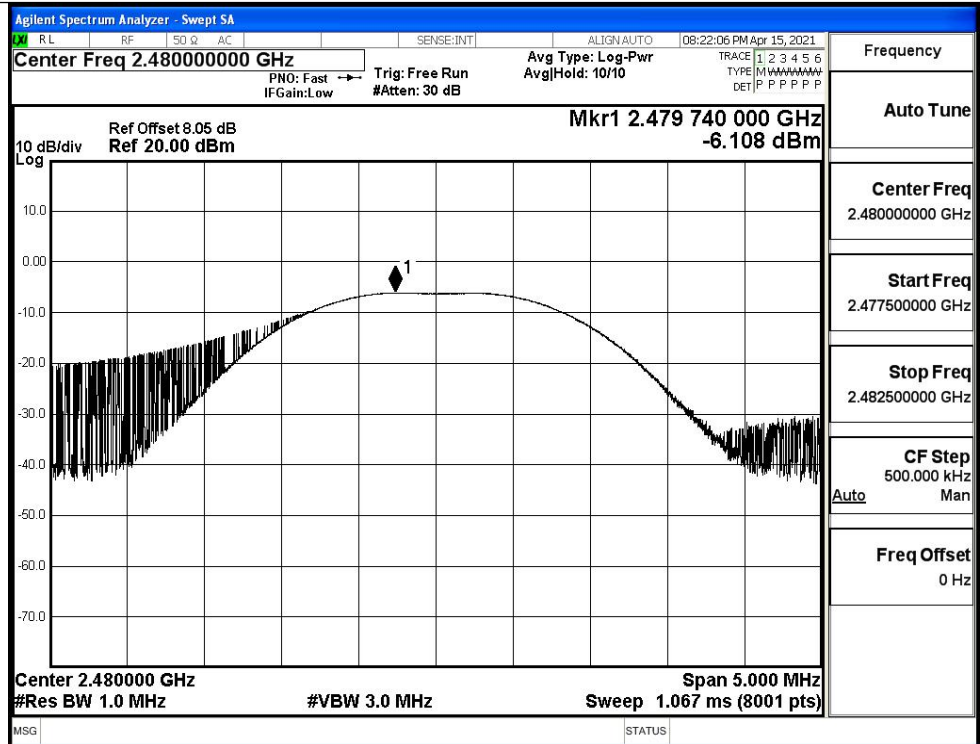
LCH



MCH



HCH

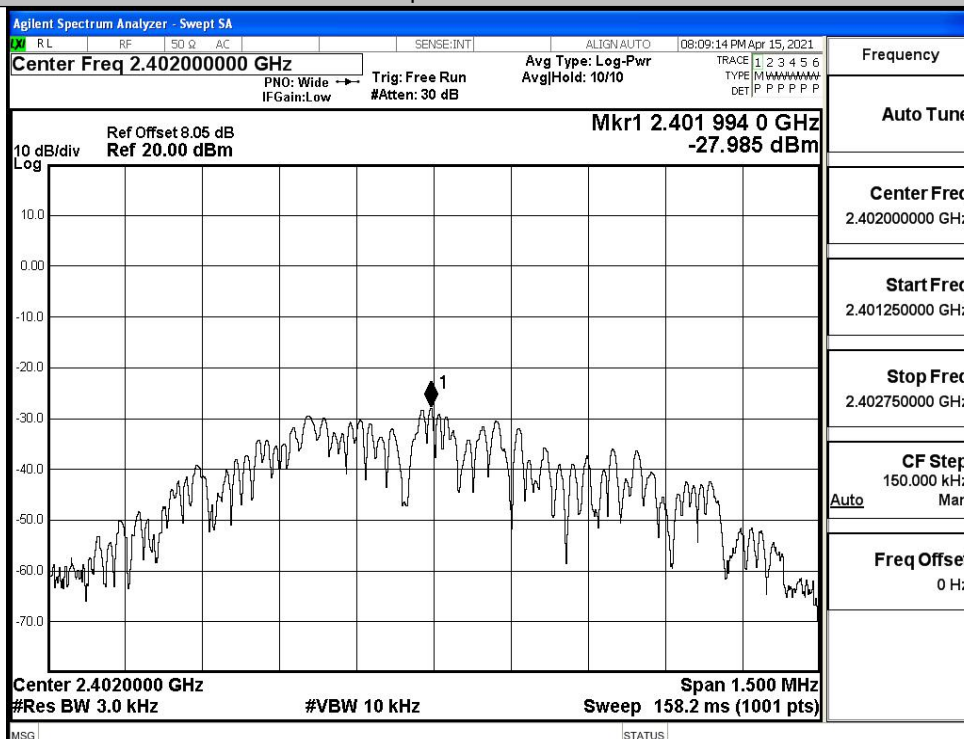


B.3 Maximum Power Spectral Density

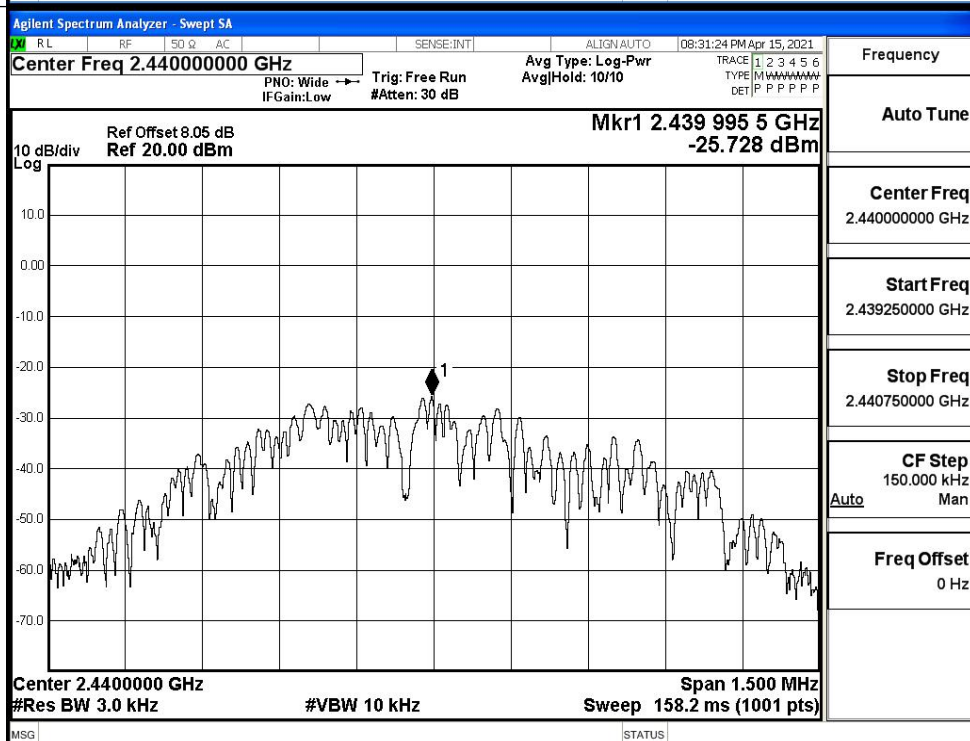
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-27.985	8	PASS
BT LE	MCH	-25.728	8	PASS
BT LE	HCH	-25.563	8	PASS

Test Graphs

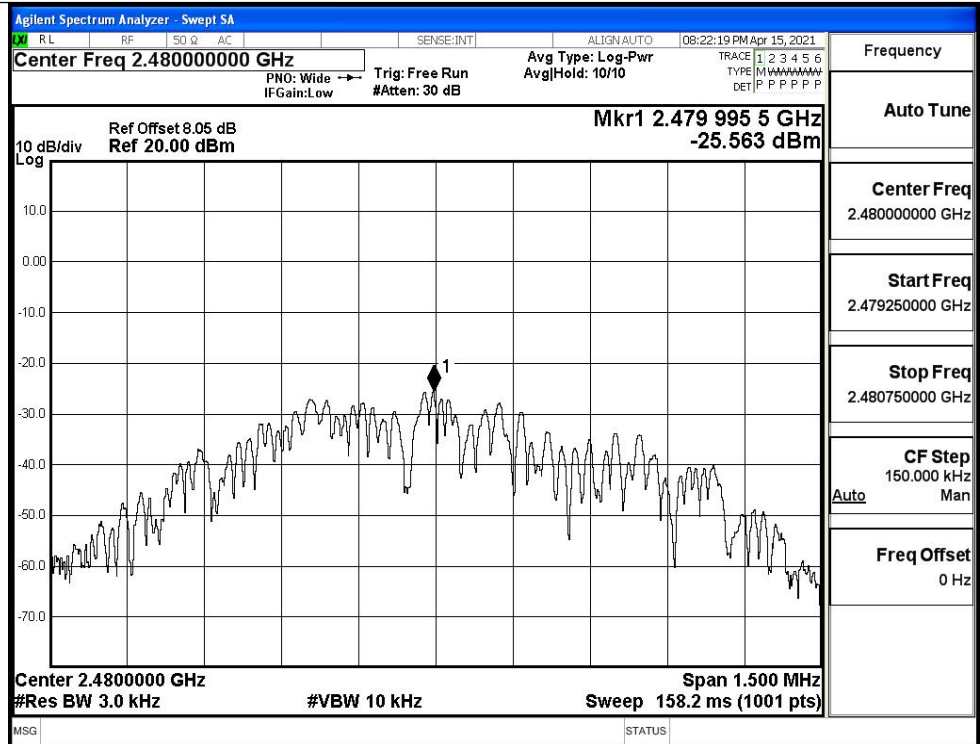
LCH



MCH



HCH

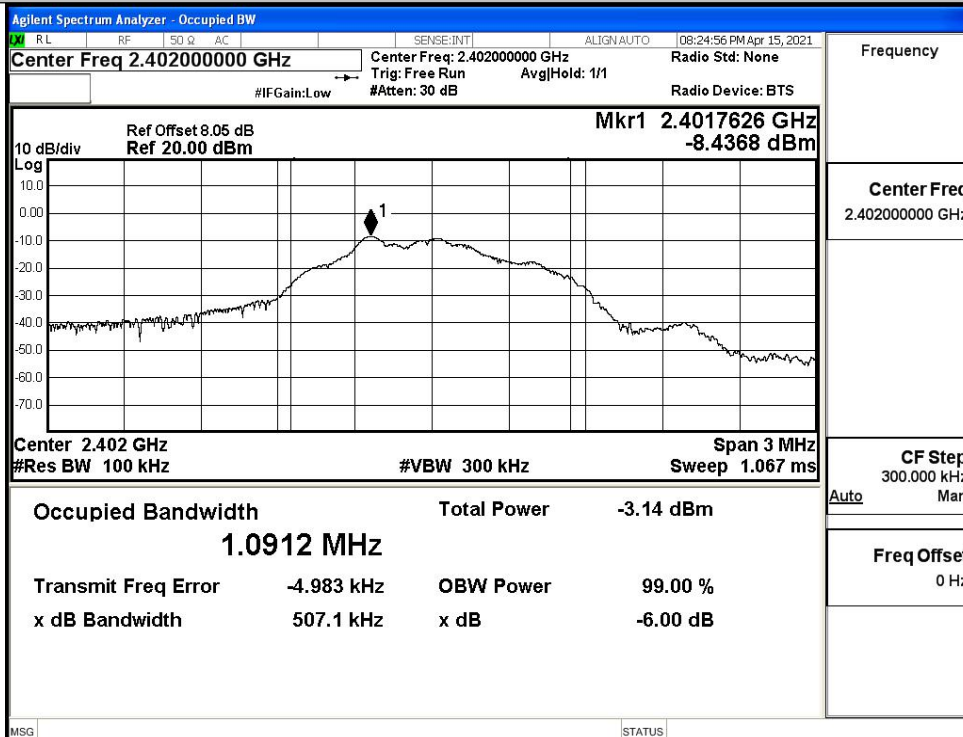


B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.5071	≥ 0.5	PASS
BT LE	MCH	0.5024	≥ 0.5	PASS
BT LE	HCH	0.5013	≥ 0.5	PASS

Test Graphs

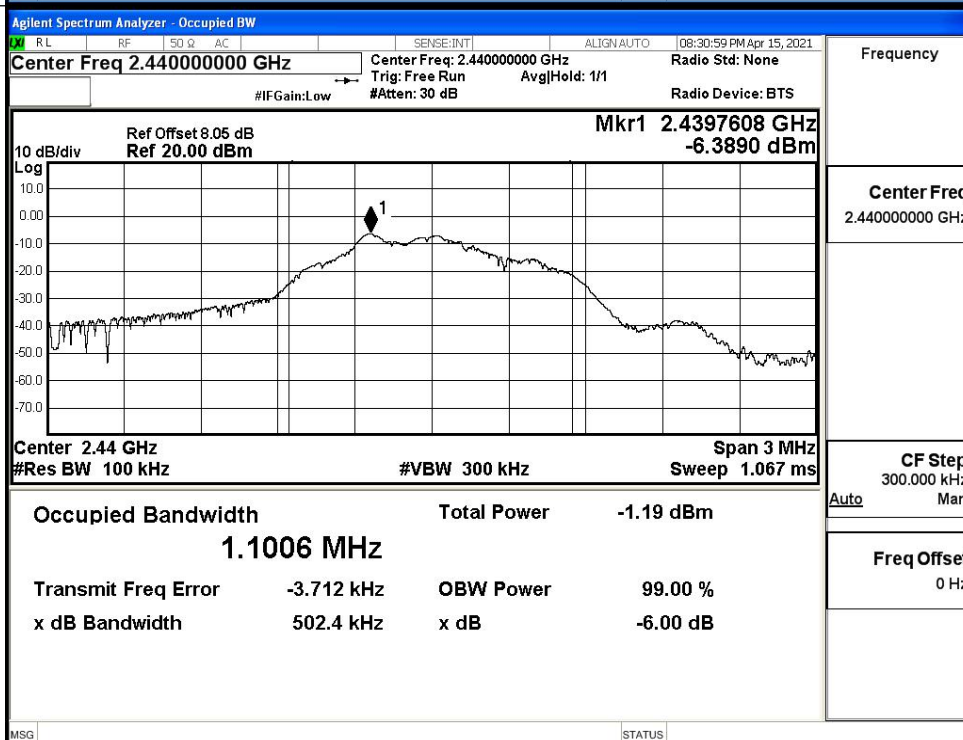
LCH



Frequency

Center Freq
2.402000000 GHzCF Step
300.000 kHz
Auto ManFreq Offset
0 Hz

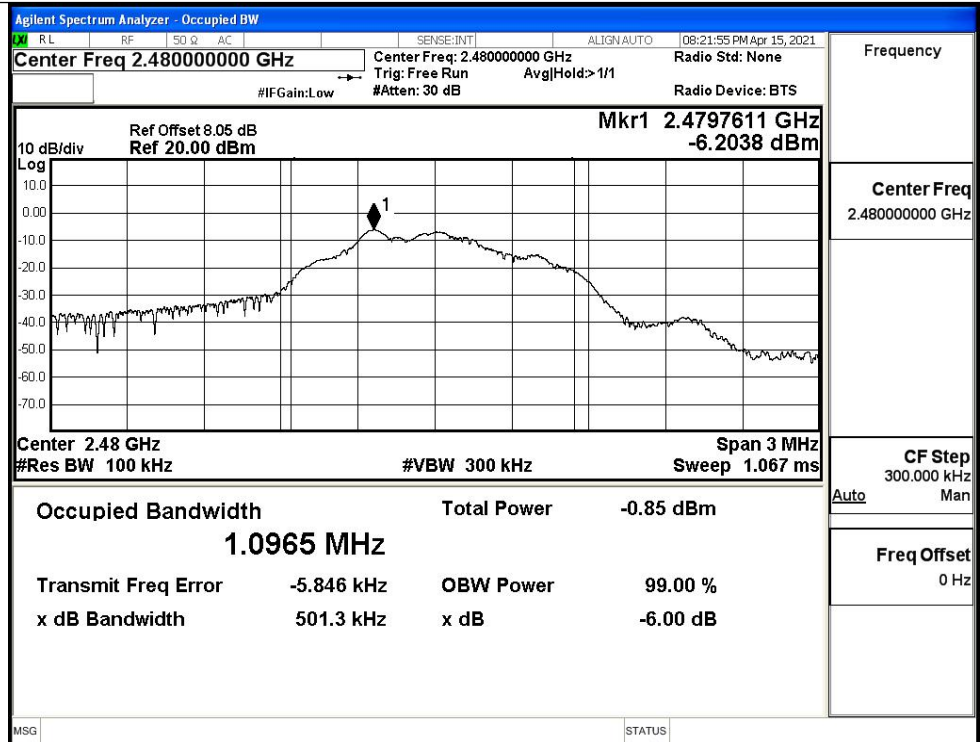
MCH



Frequency

Center Freq
2.440000000 GHzCF Step
300.000 kHz
Auto ManFreq Offset
0 Hz

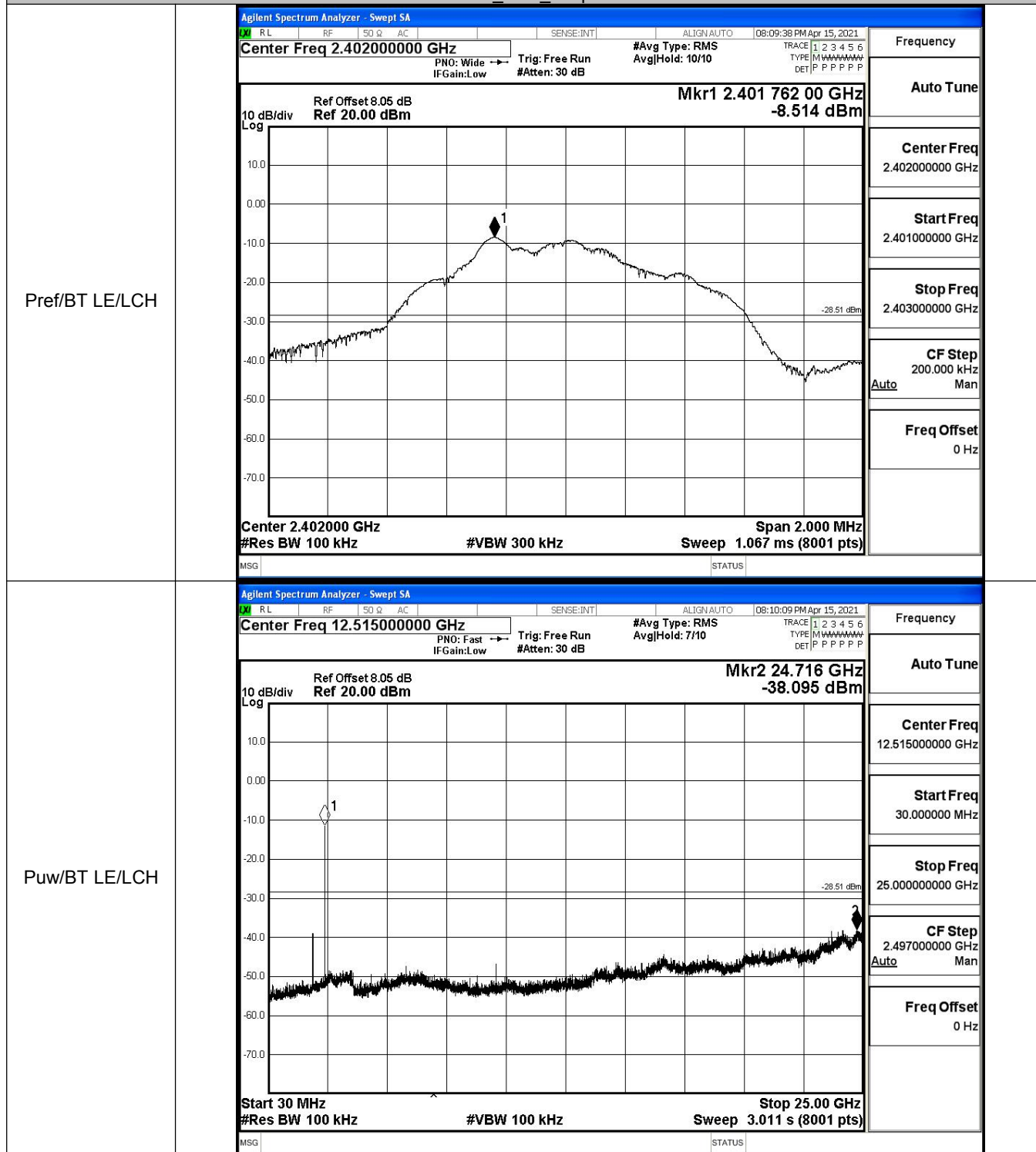
HCH



B.5 RF Conducted Spurious Emissions

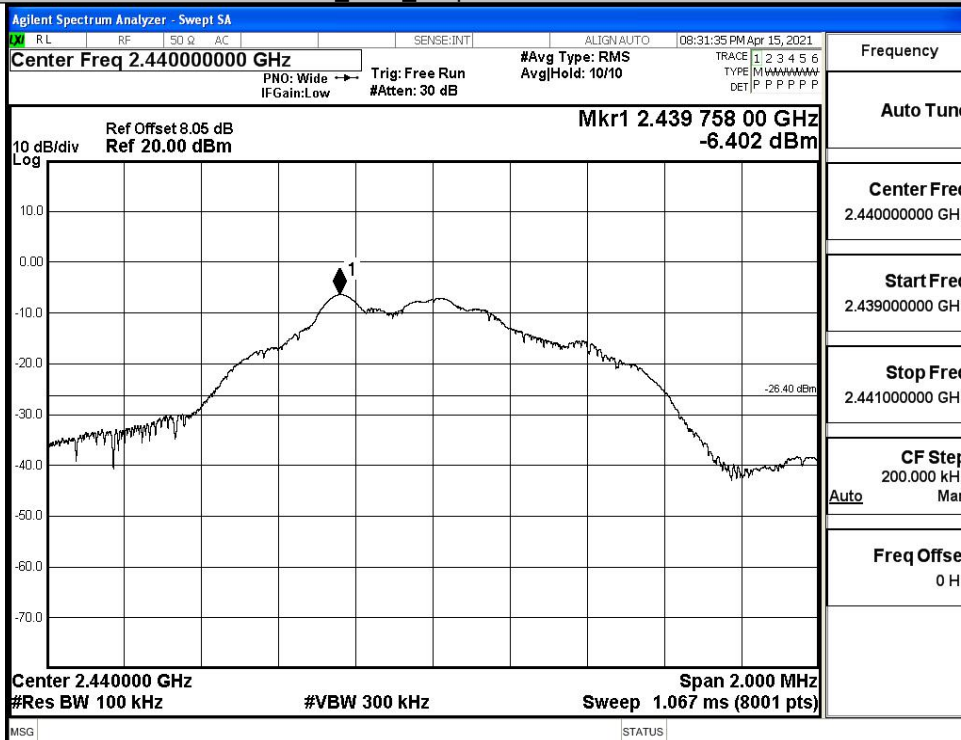
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-8.514	-38.095	-28.514	PASS
BT LE	MCH	-6.402	-35.436	-26.402	PASS
BT LE	HCH	-6.168	-37.447	-26.168	PASS

BT LE_LCH_Graphs

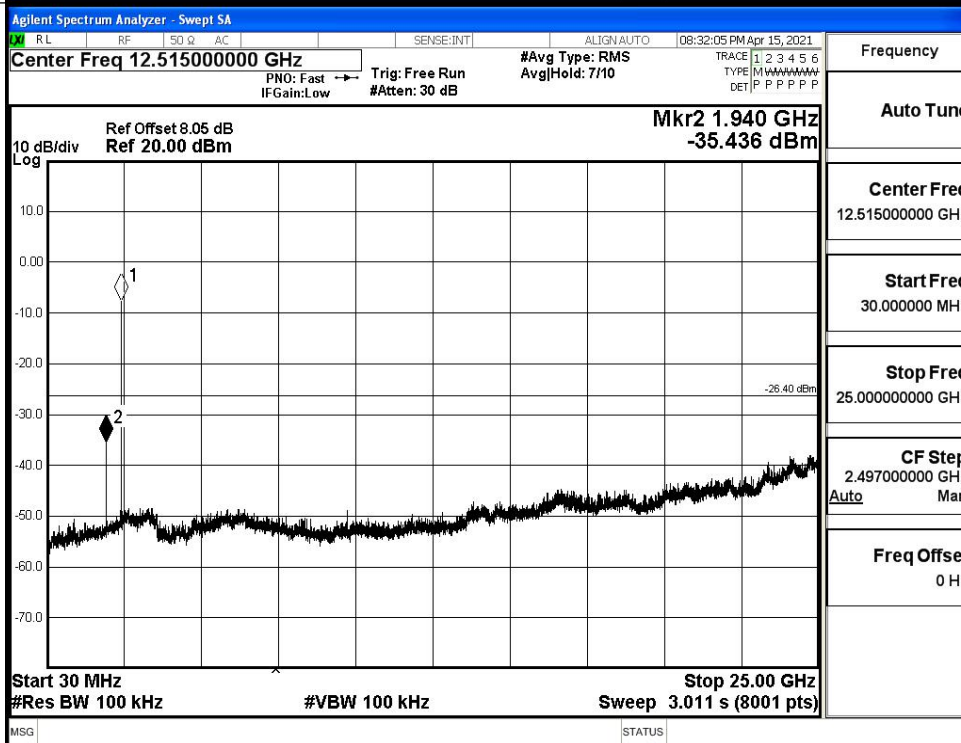


BT LE MCH Graphs

Pref/BT LE/MCH

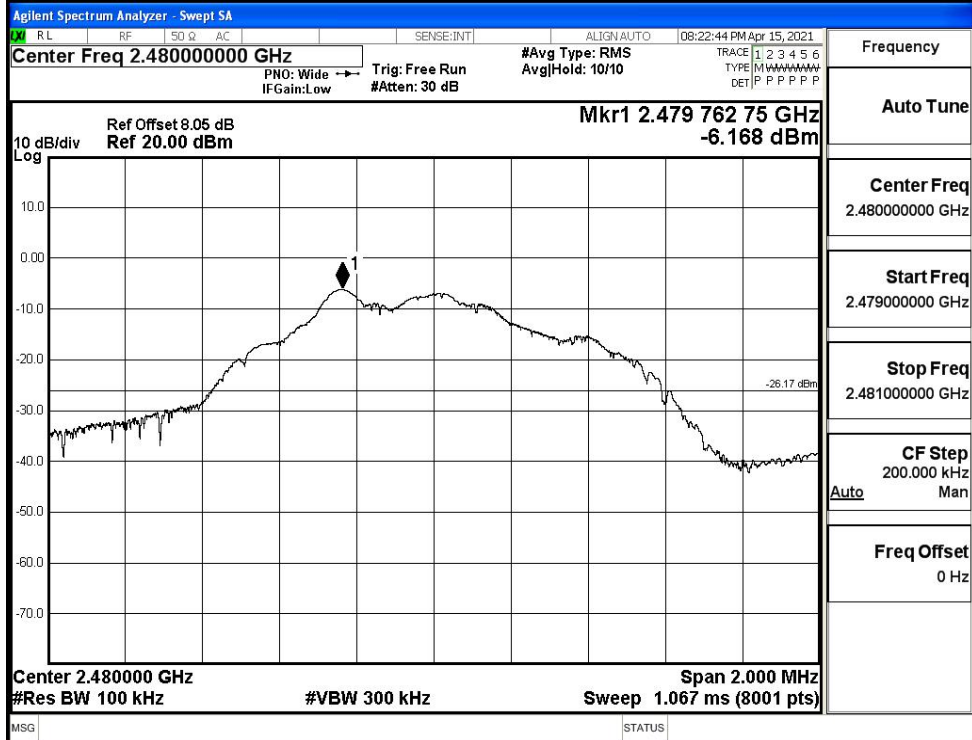


Puw/BT LE/MCH

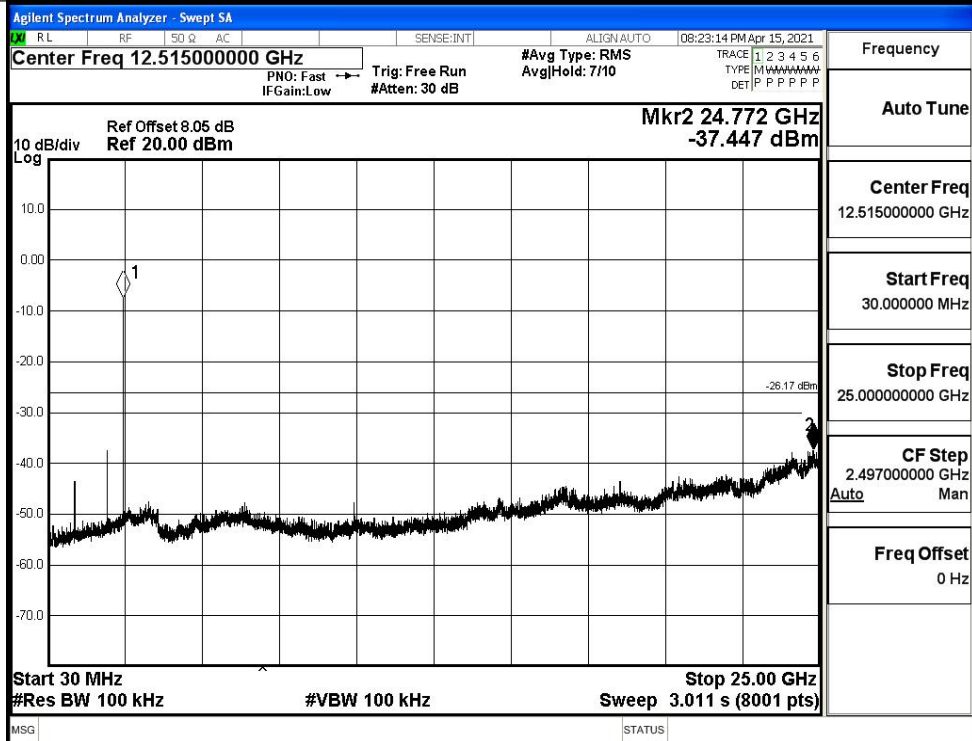


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

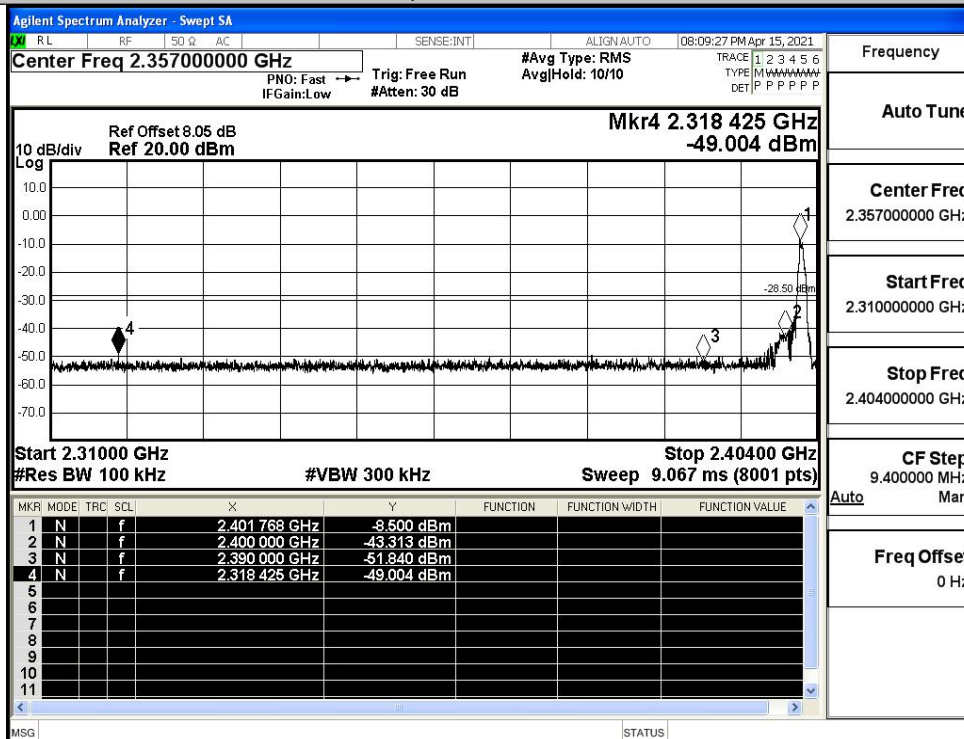


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-8.500	-49.004	-28.5	PASS
BT LE	HCH	-6.181	-46.804	-26.18	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq
2.357000000 GHz

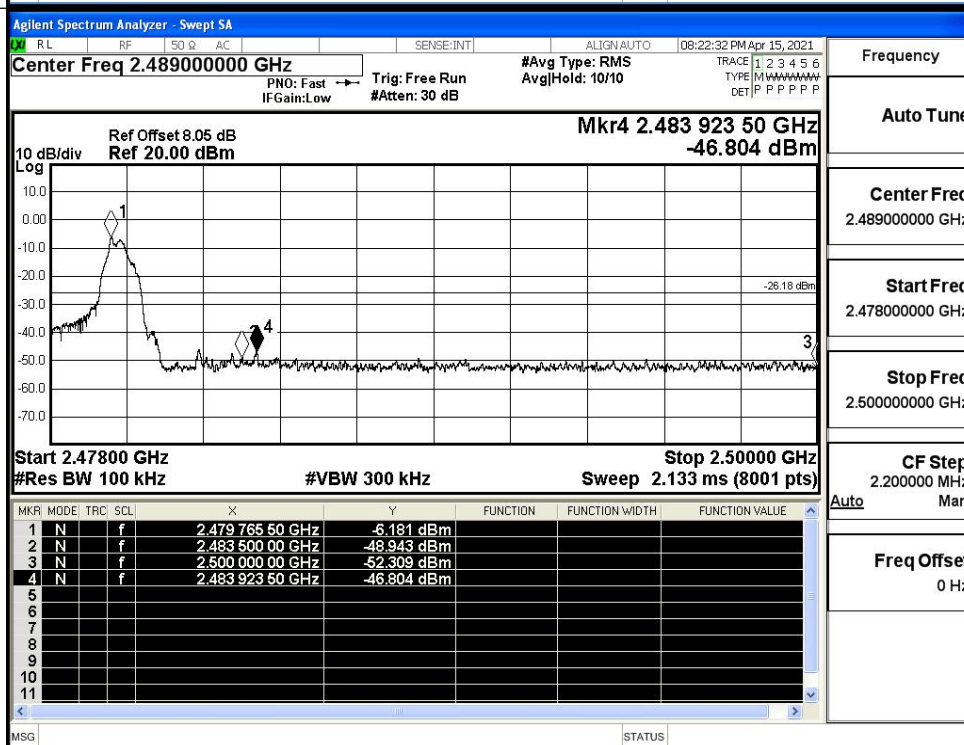
Start Freq
2.310000000 GHz

Stop Freq
2.404000000 GHz

CF Step
9.400000 MHz

Freq Offset
0 Hz

HCH



Frequency

Auto Tune

Center Freq
2.489000000 GHz

Start Freq
2.478000000 GHz

Stop Freq
2.500000000 GHz

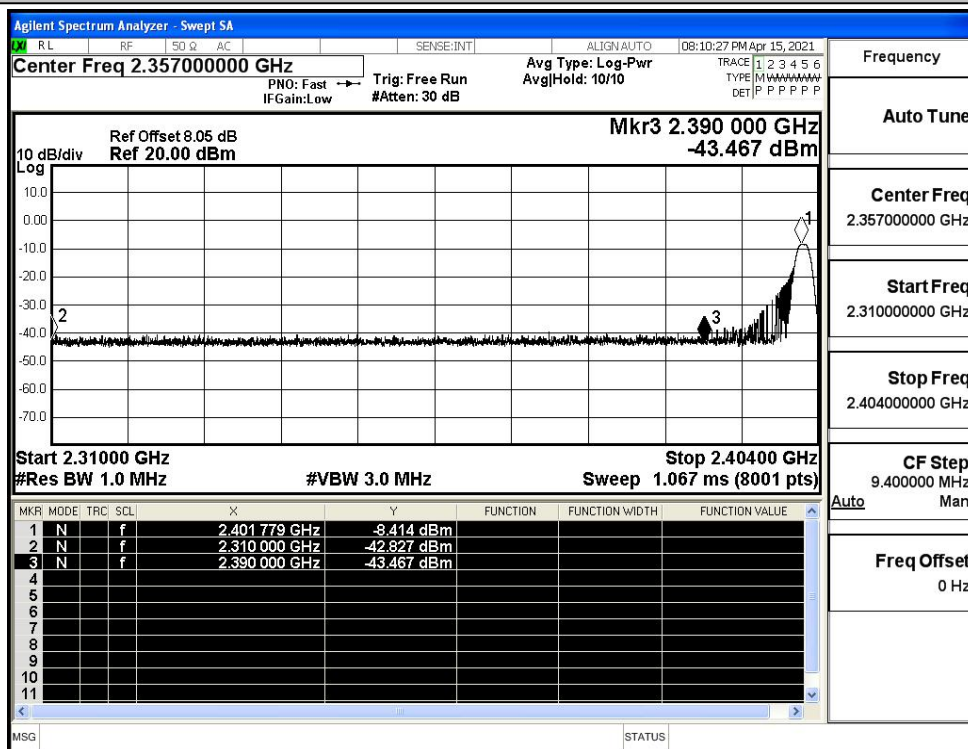
CF Step
2.200000 MHz

Freq Offset
0 Hz

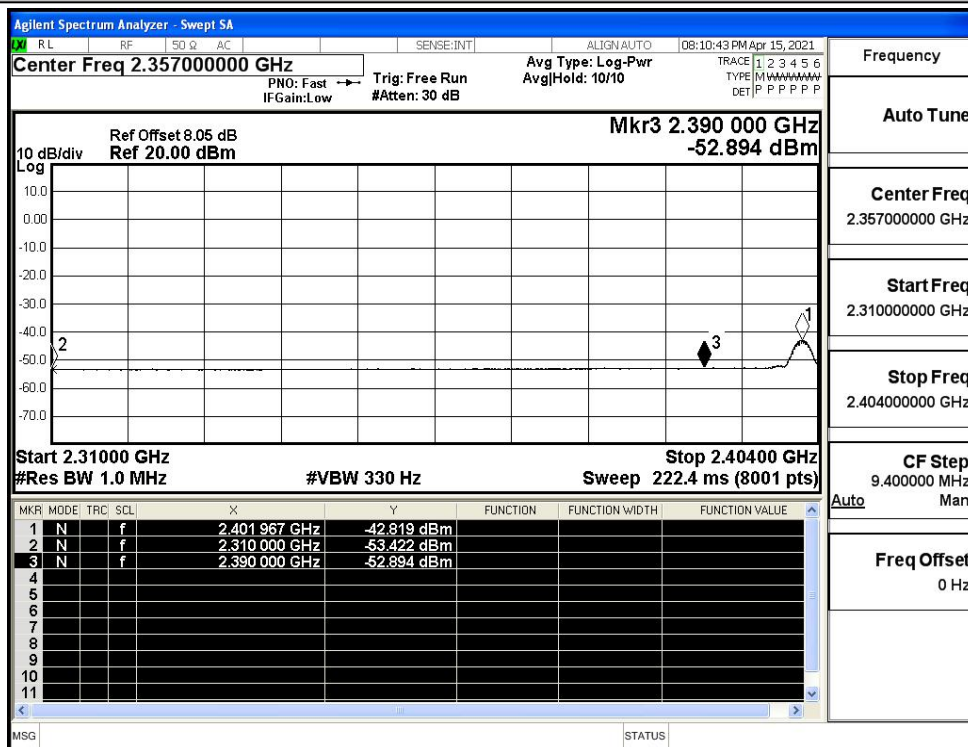
B.7 Restrict-band band-edge measurements

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	-42.83	2.0	0	54.40	PEAK	74	PASS
		Ant1	2310.0	-53.42	2.0	0	43.81	AV	54	PASS
		Ant1	2390.0	-43.47	2.0	0	53.76	PEAK	74	PASS
		Ant1	2390.0	-52.89	2.0	0	44.34	AV	54	PASS
	2480	Ant1	2483.5	-41.10	2.0	0	56.13	PEAK	74	PASS
		Ant1	2483.5	-52.29	2.0	0	44.94	AV	54	PASS
		Ant1	2500.0	-41.39	2.0	0	55.84	PEAK	74	PASS
		Ant1	2500.0	-52.29	2.0	0	44.94	AV	54	PASS

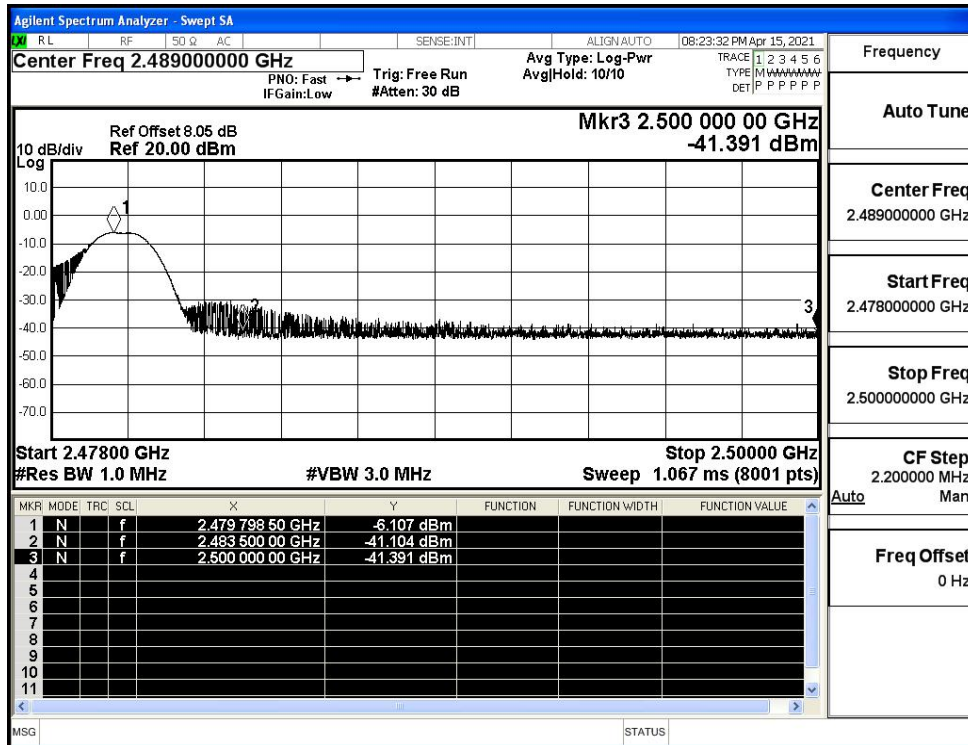
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

