

Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: Smart candle lamp

Trade Mark: N/A

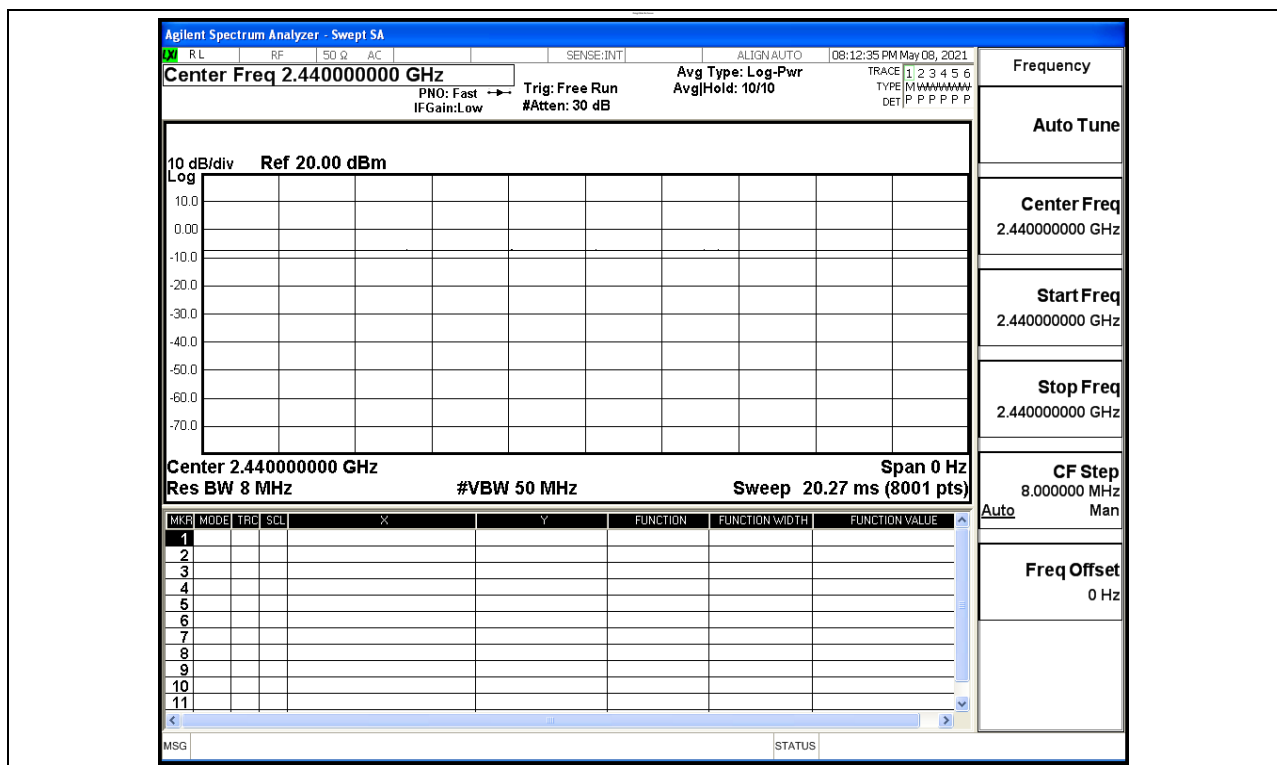
Test Model: C37

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	50%
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
BT LE	2440	Ant1	100	PASS



A.2 Maximum Conducted Peak Output Power

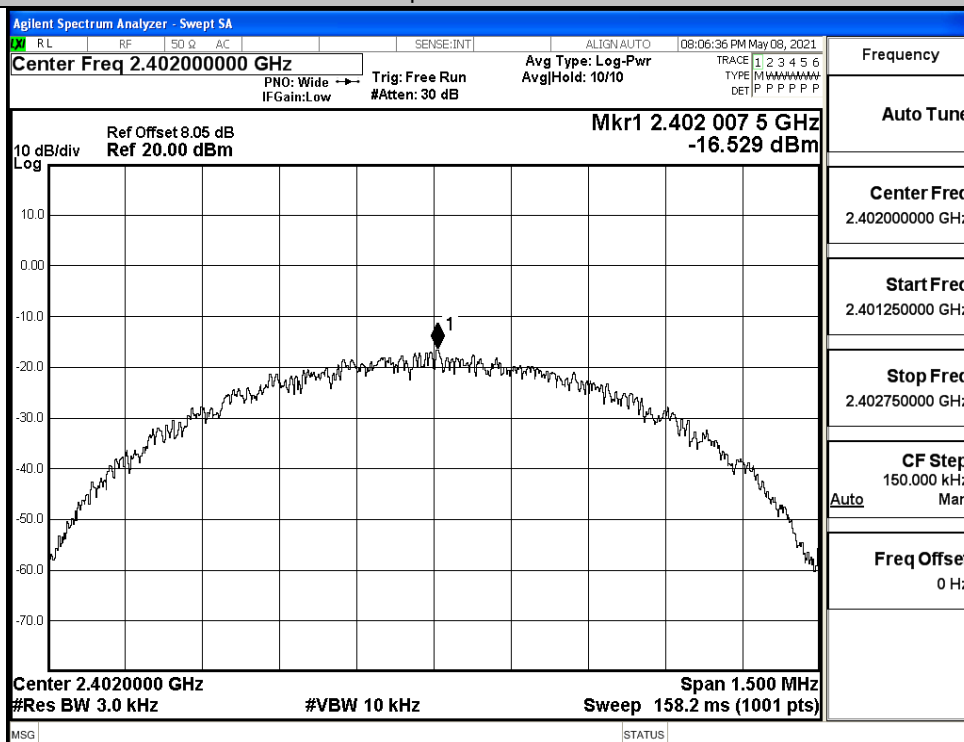
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.054	30	PASS
BT LE	MCH	0.609	30	PASS
BT LE	HCH	1.482	30	PASS

A.3 Maximum Power Spectral Density

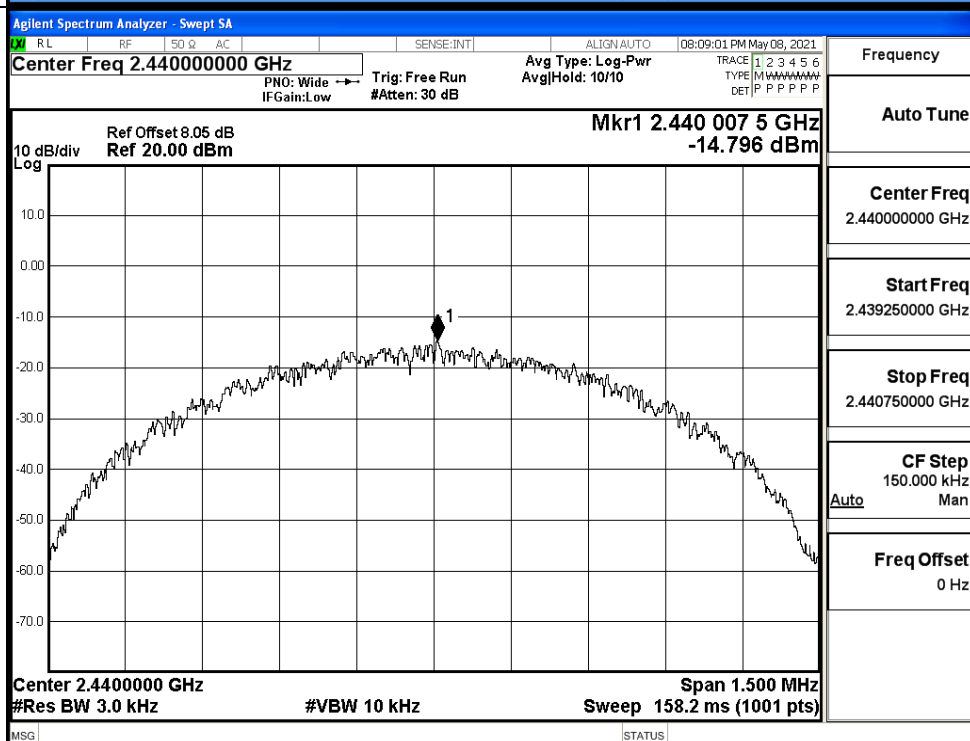
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-16.529	8	PASS
BT LE	MCH	-14.796	8	PASS
BT LE	HCH	-13.973	8	PASS

Test Graphs

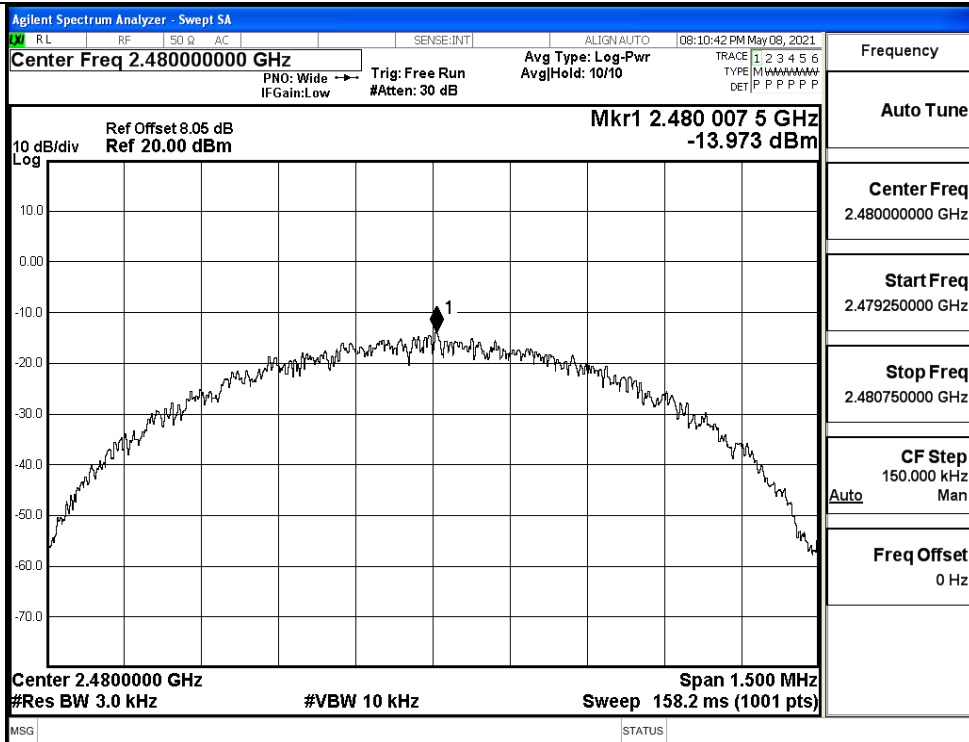
LCH



MCH



HCH

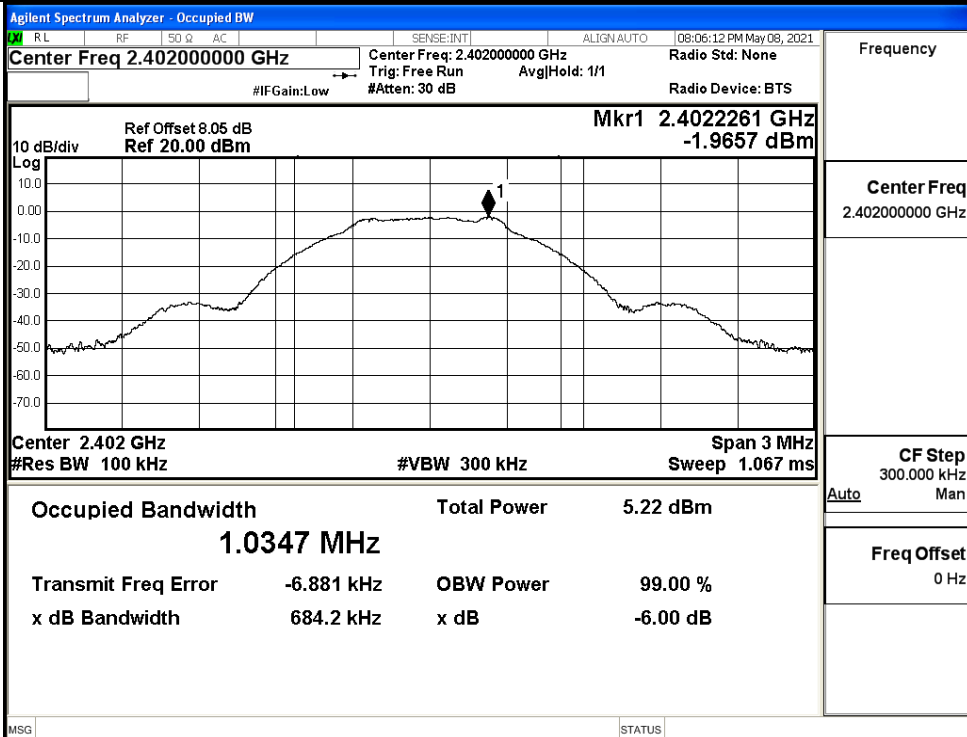


A.4 6dB Bandwidth

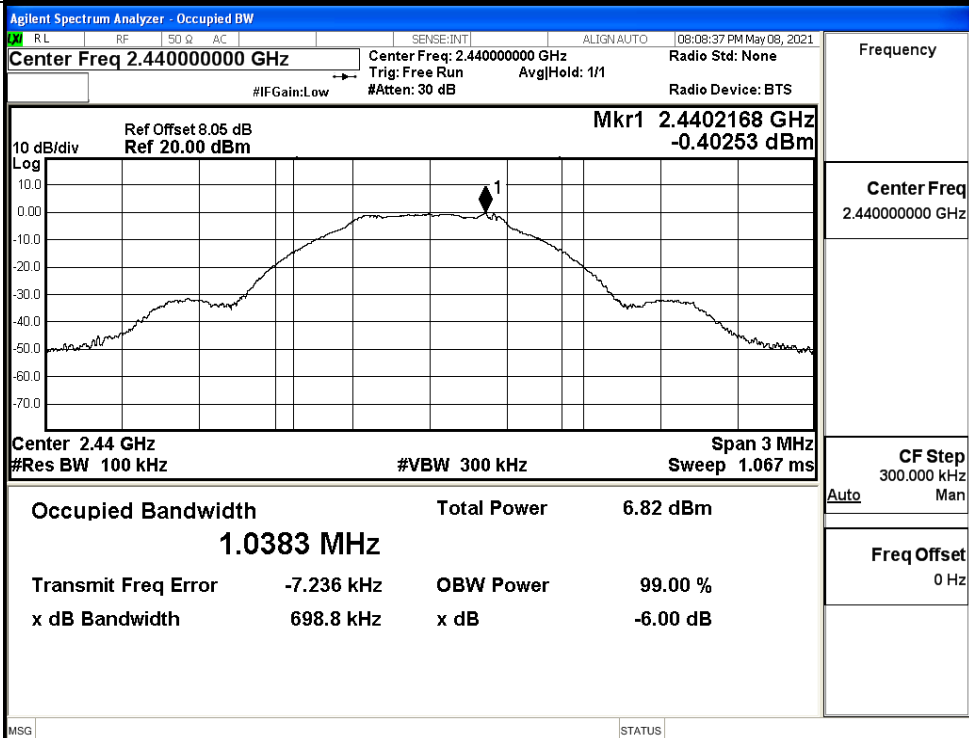
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6842	≥ 0.5	PASS
BT LE	MCH	0.6988	≥ 0.5	PASS
BT LE	HCH	0.6878	≥ 0.5	PASS

Test Graphs

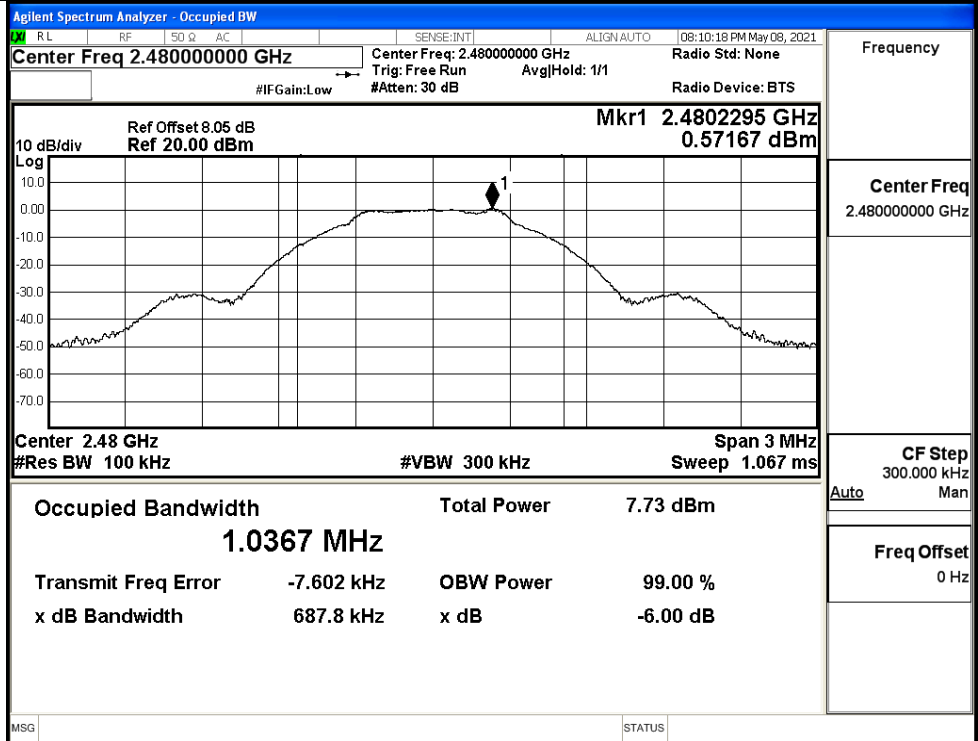
LCH



MCH



HCH

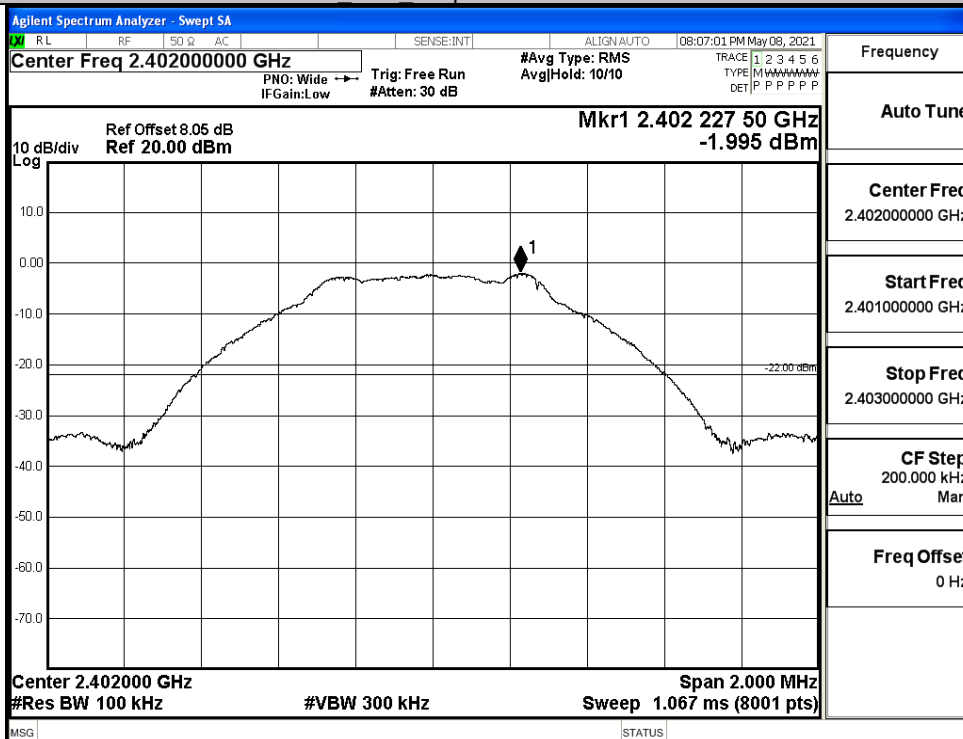


A.5 RF Conducted Spurious Emissions

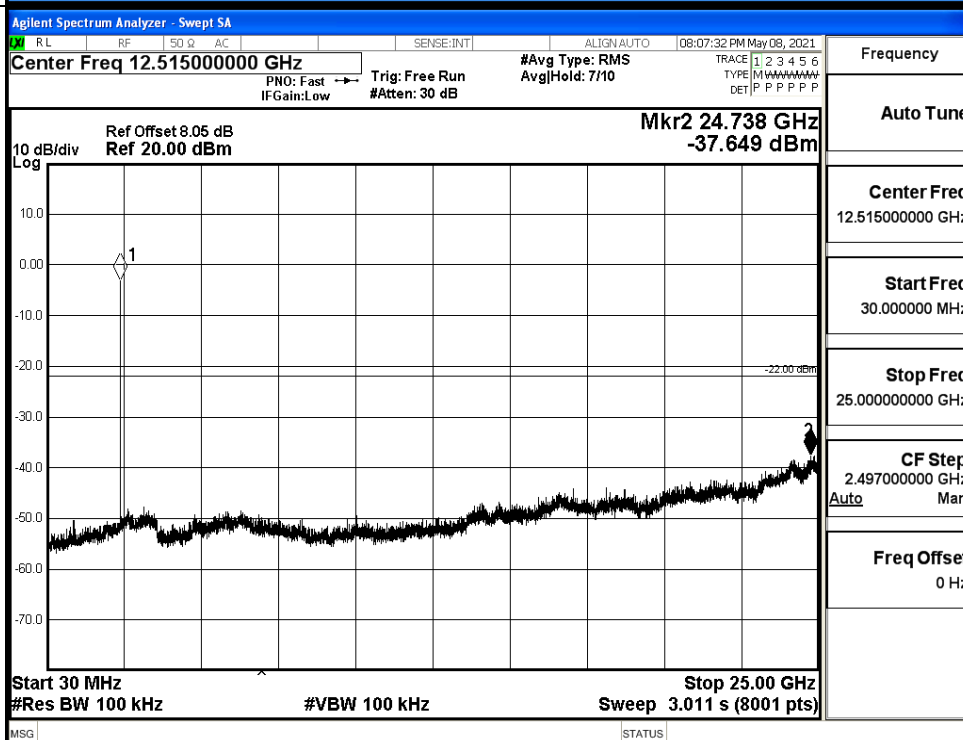
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.995	-37.649	-21.995	PASS
BT LE	MCH	-0.358	-37.730	-20.358	PASS
BT LE	HCH	0.522	-37.275	-19.478	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

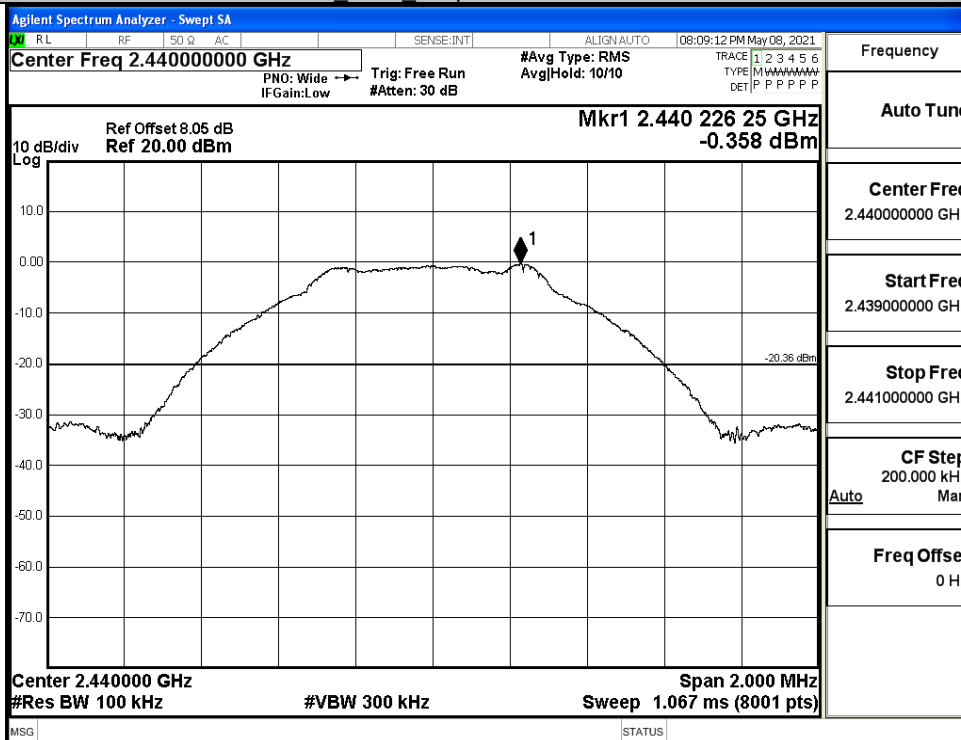


Puw/BT LE/LCH

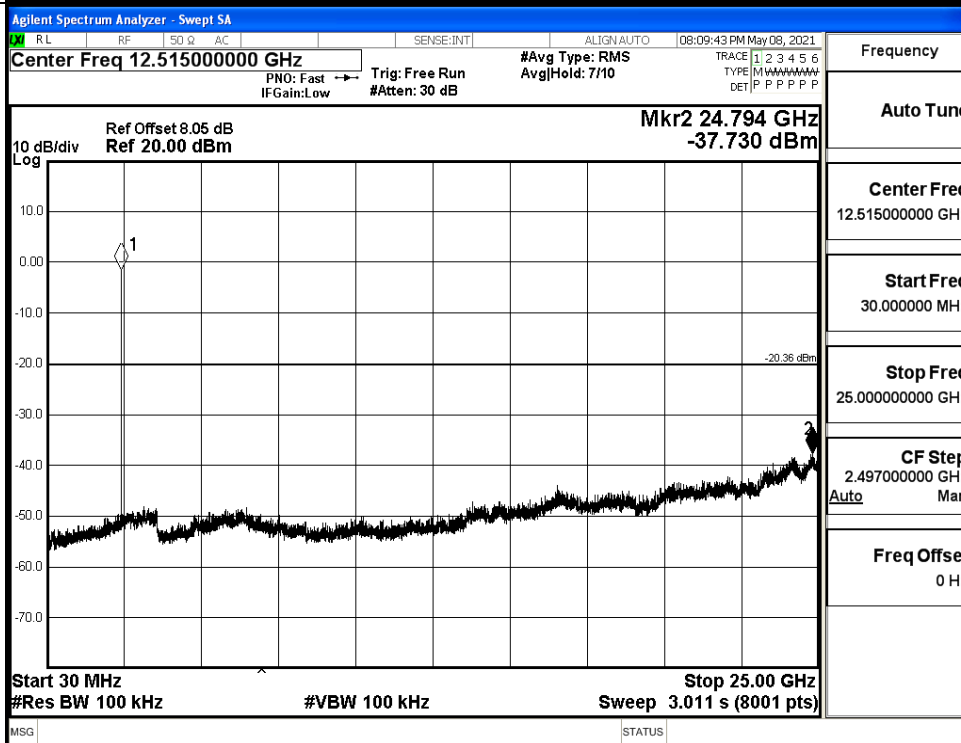


BT LE MCH Graphs

Pref/BT LE/MCH

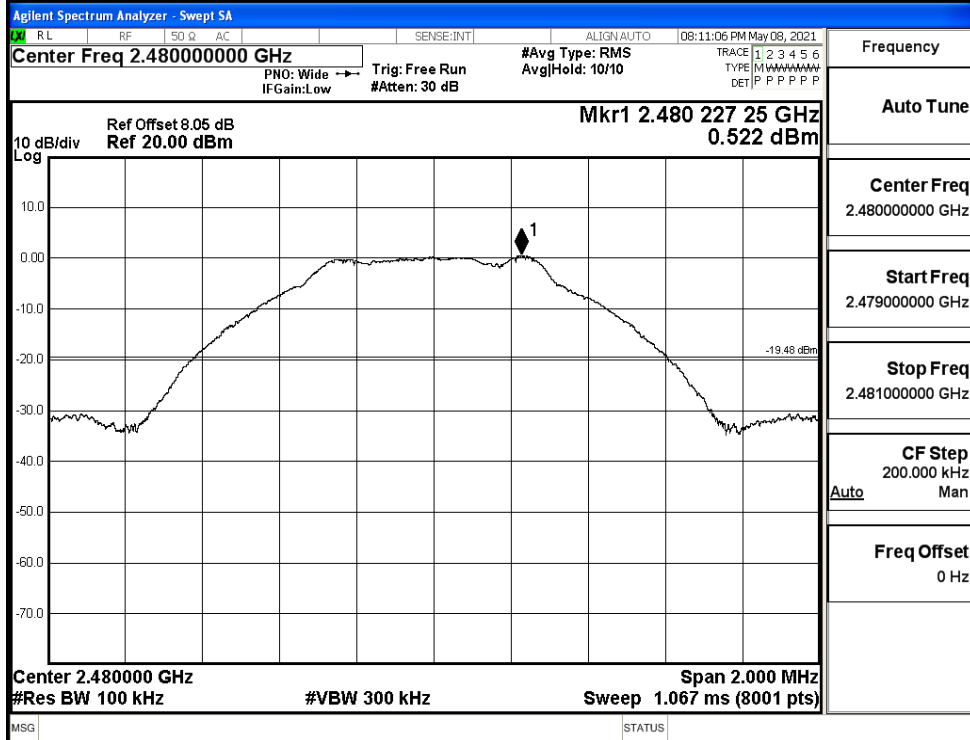


Puw/BT LE/MCH

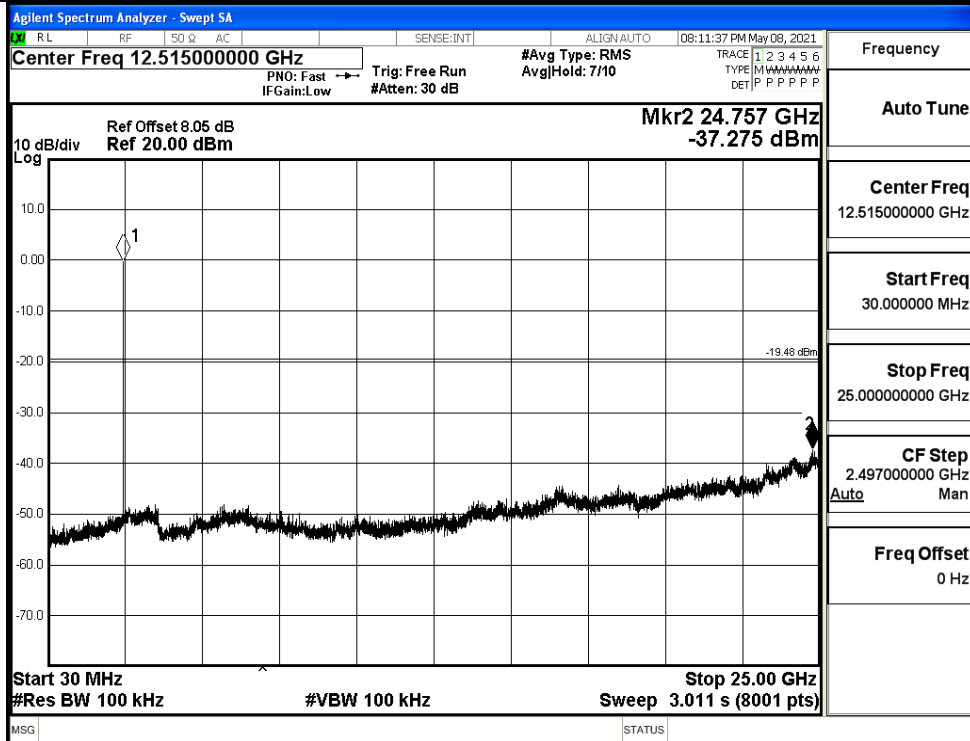


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

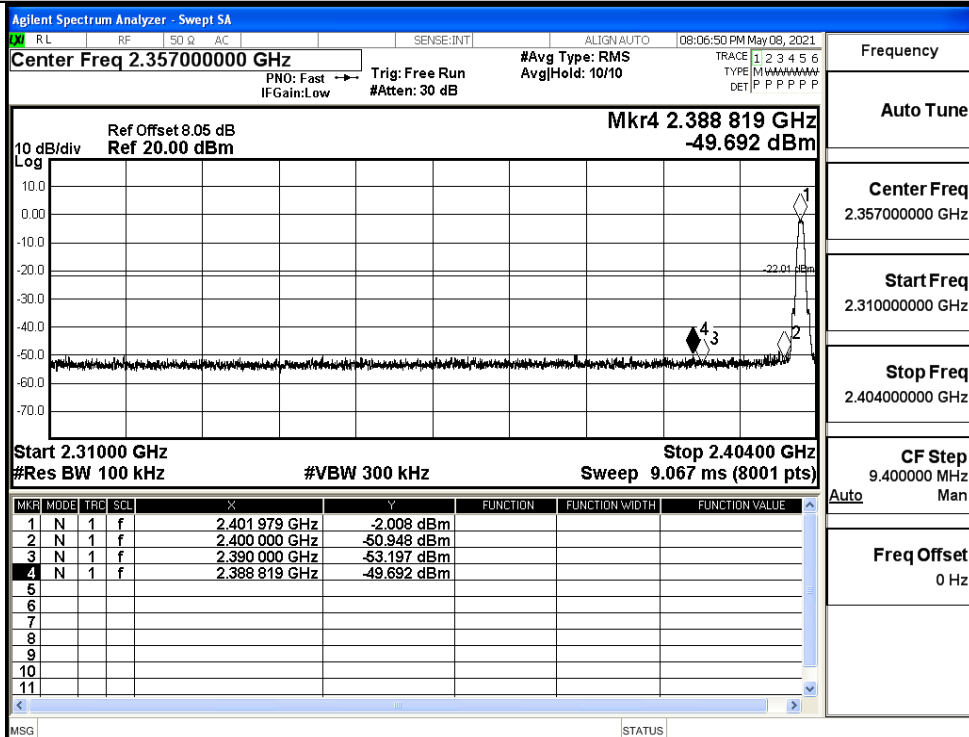


A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.008	-49.692	-22.01	PASS
BT LE	HCH	0.787	-48.918	-19.21	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

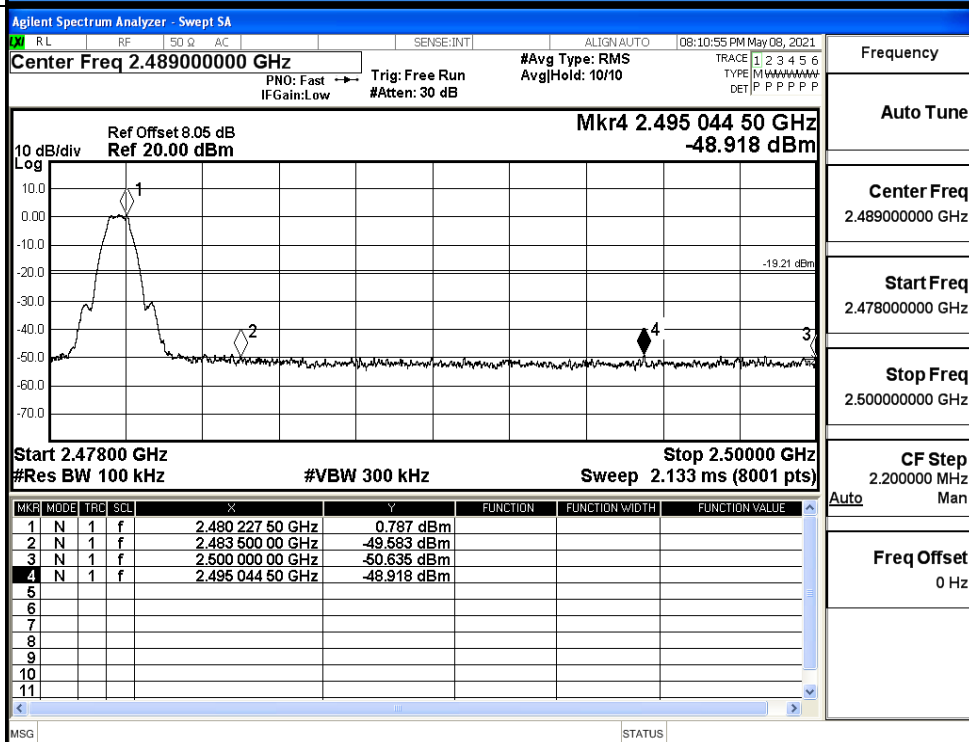
9.400000 MHz

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

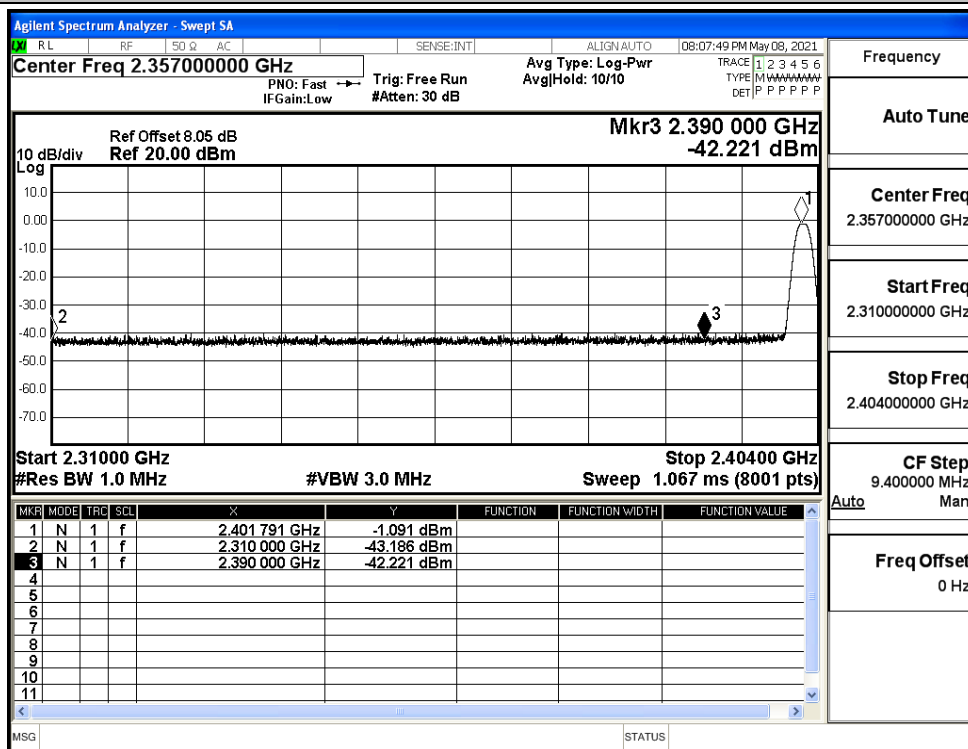
Freq Offset

0 Hz

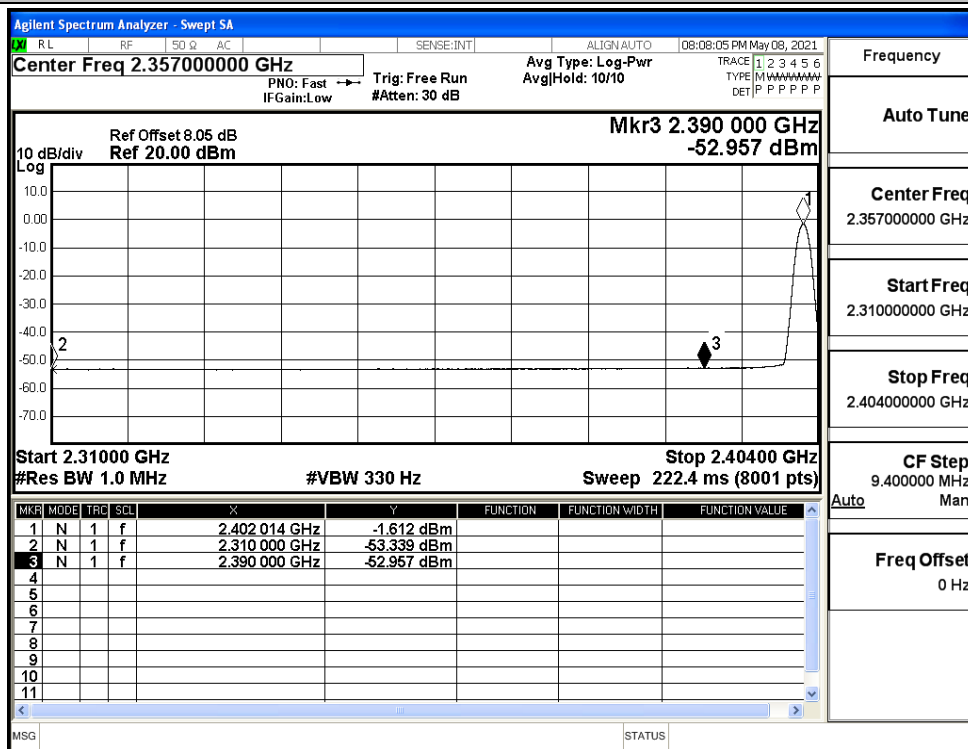
A.7 Restrict-band band-edge measurements

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	-43.19	4.6	0	56.64	PEAK	74	PASS
		Ant1	2310.0	-53.34	4.6	0	46.49	AV	54	PASS
		Ant1	2390.0	-42.22	4.6	0	57.61	PEAK	74	PASS
		Ant1	2390.0	-52.96	4.6	0	46.87	AV	54	PASS
	2480	Ant1	2483.5	-39.47	4.6	0	60.36	PEAK	74	PASS
		Ant1	2483.5	-51.23	4.6	0	48.60	AV	54	PASS
		Ant1	2500.0	-41.72	4.6	0	58.11	PEAK	74	PASS
		Ant1	2500.0	-52.25	4.6	0	47.58	AV	54	PASS

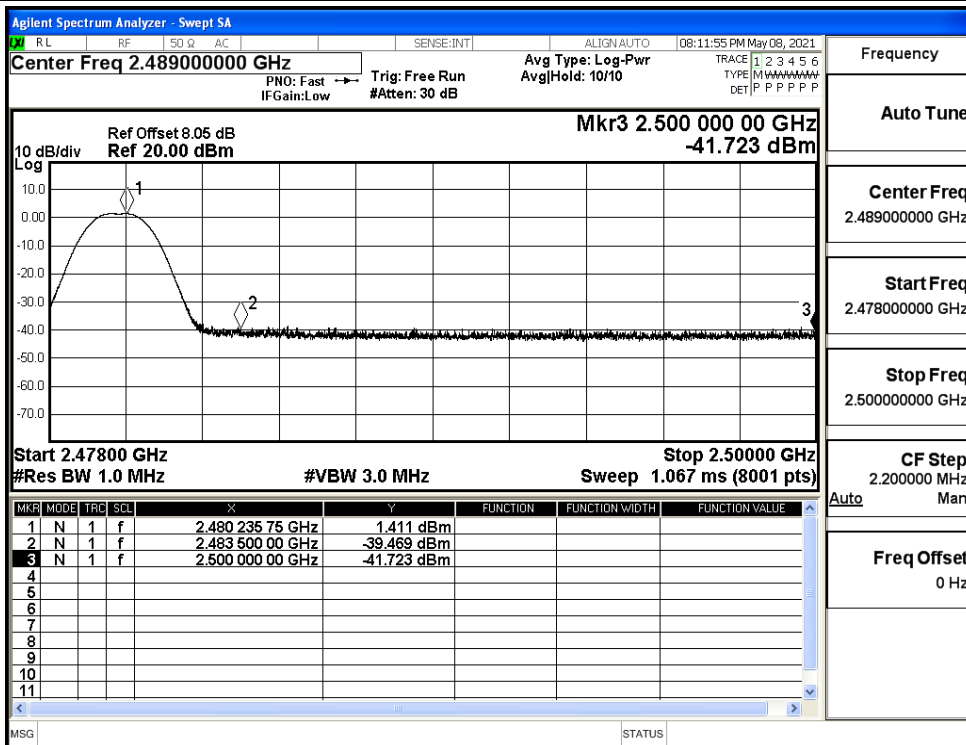
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

