

Appendix A

RF Test Data for BT LE V4.0 (Conducted Measurement)

Product Name: Wireless Remote Shutter

Trade Mark: N/A

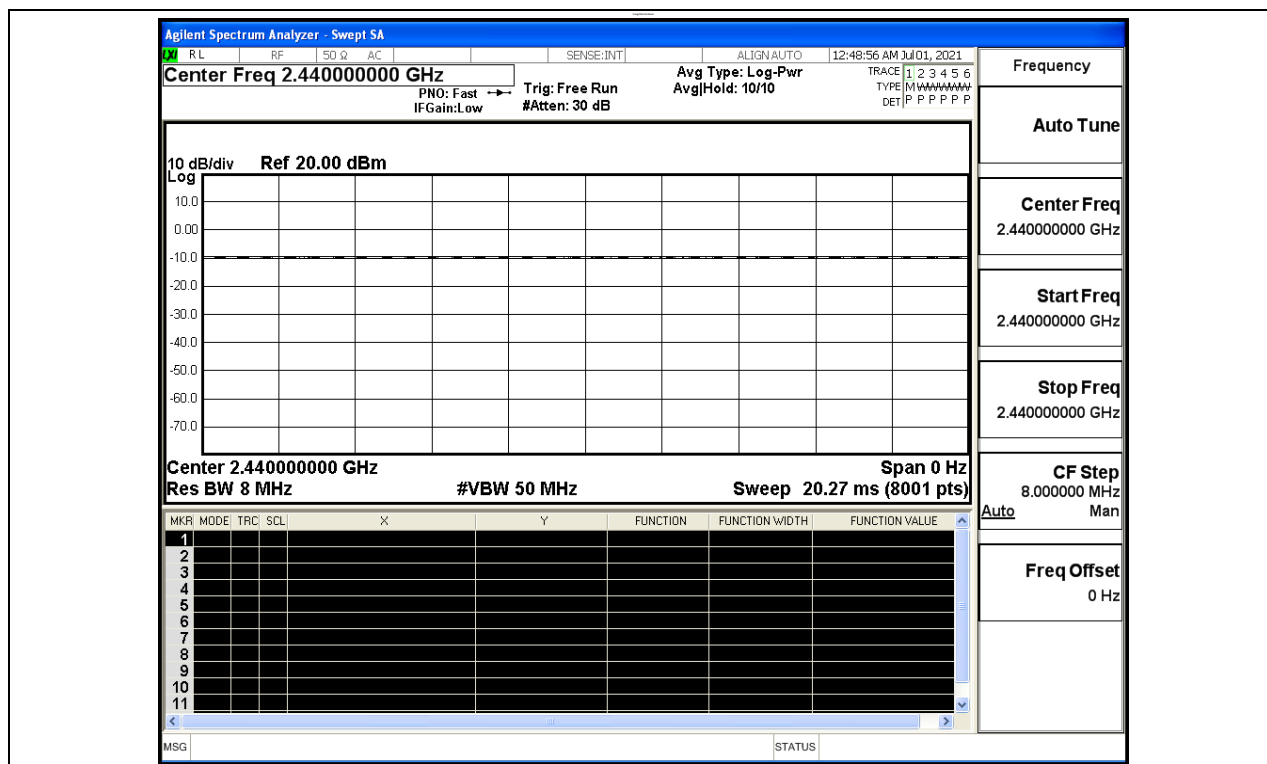
Test Model: 53758-I

Environmental Conditions

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

A.1 Duty Cycle

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

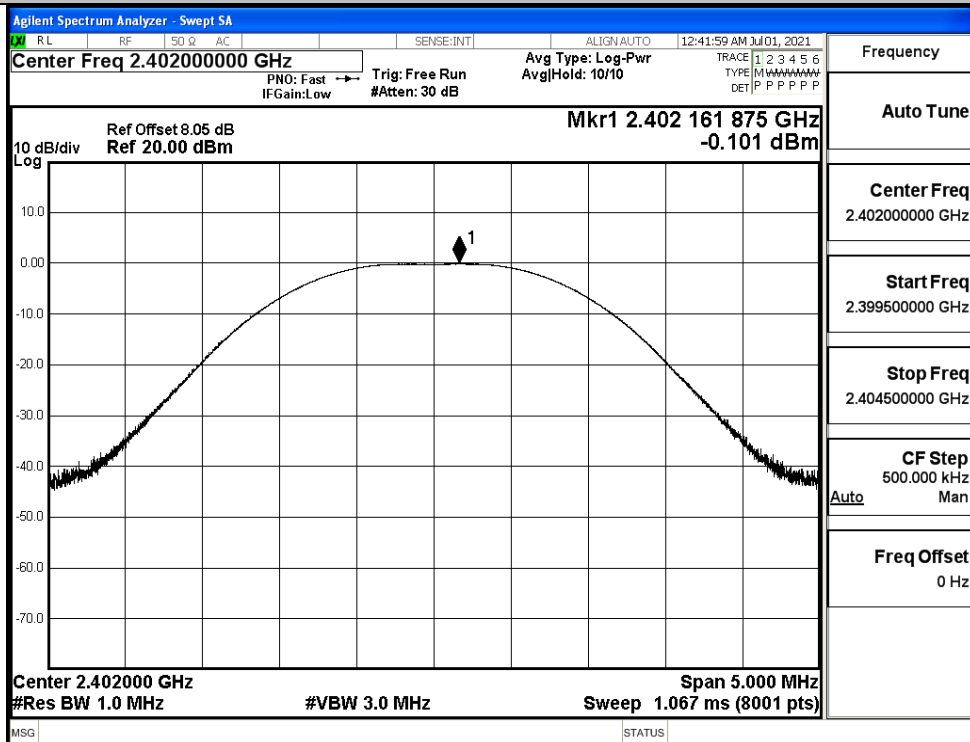


A.2 Maximum Conducted Peak Output Power

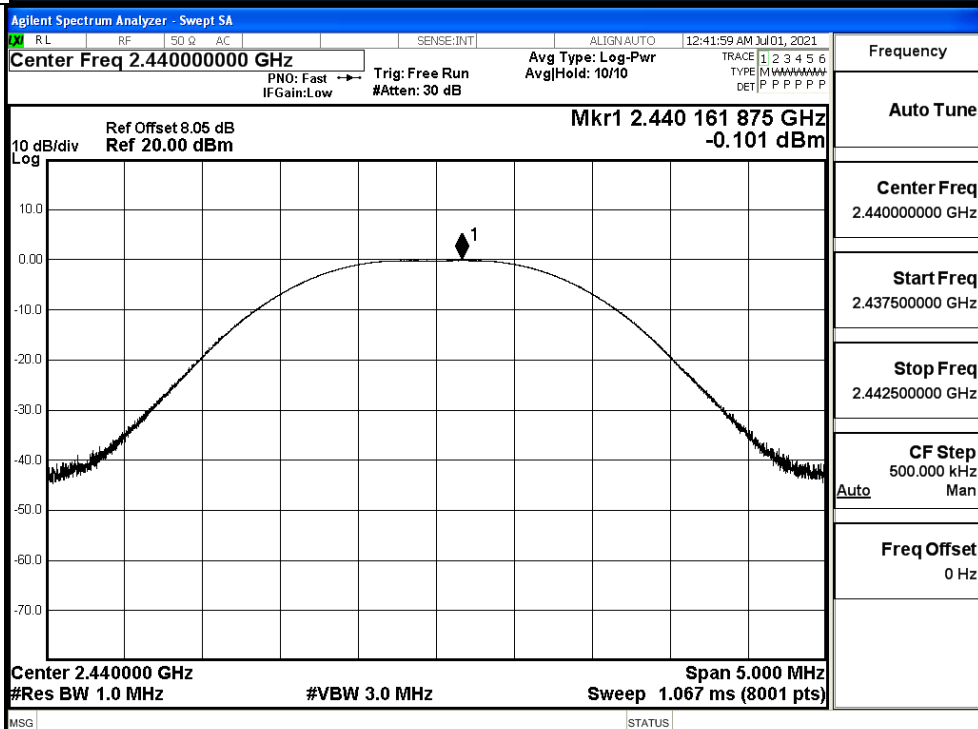
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.101	30	PASS
BT LE	MCH	-0.101	30	PASS
BT LE	HCH	-0.79	30	PASS

Test Graphs

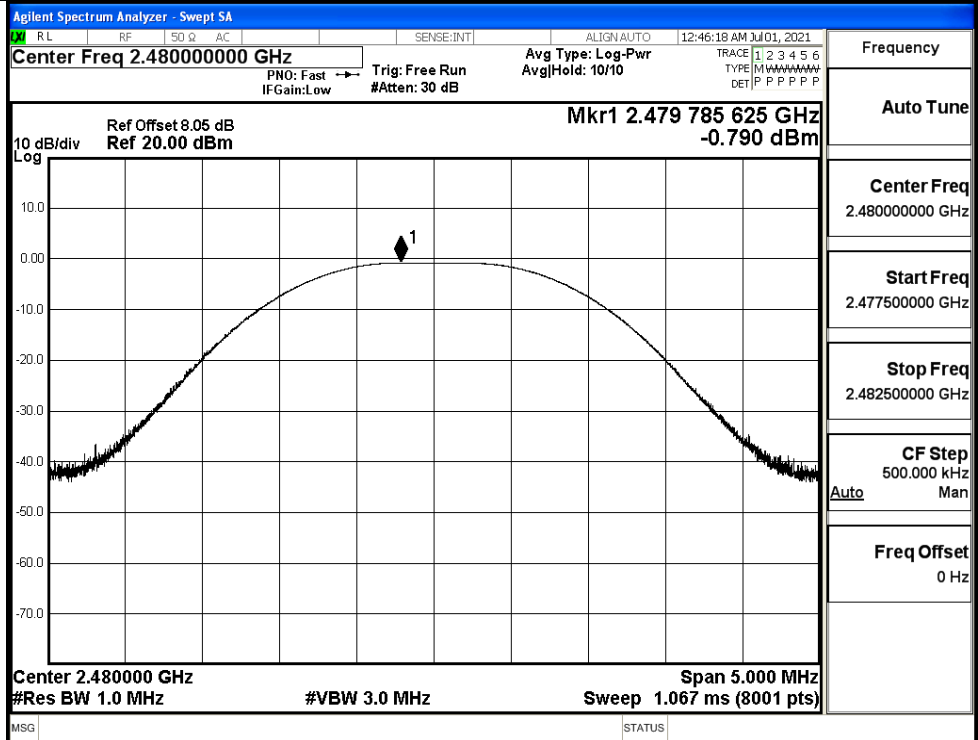
LCH



MCH



HCH

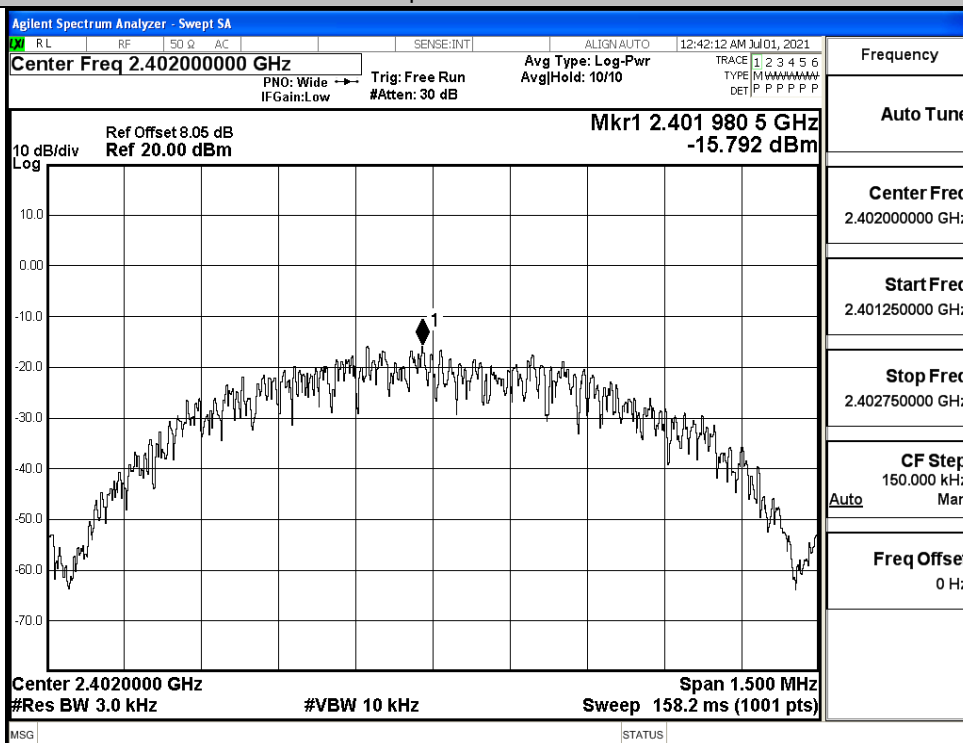


A.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-15.792	8	PASS
BT LE	MCH	-16.888	8	PASS
BT LE	HCH	-15.813	8	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.402000000 GHz

Start Freq

2.401250000 GHz

Stop Freq

2.402750000 GHz

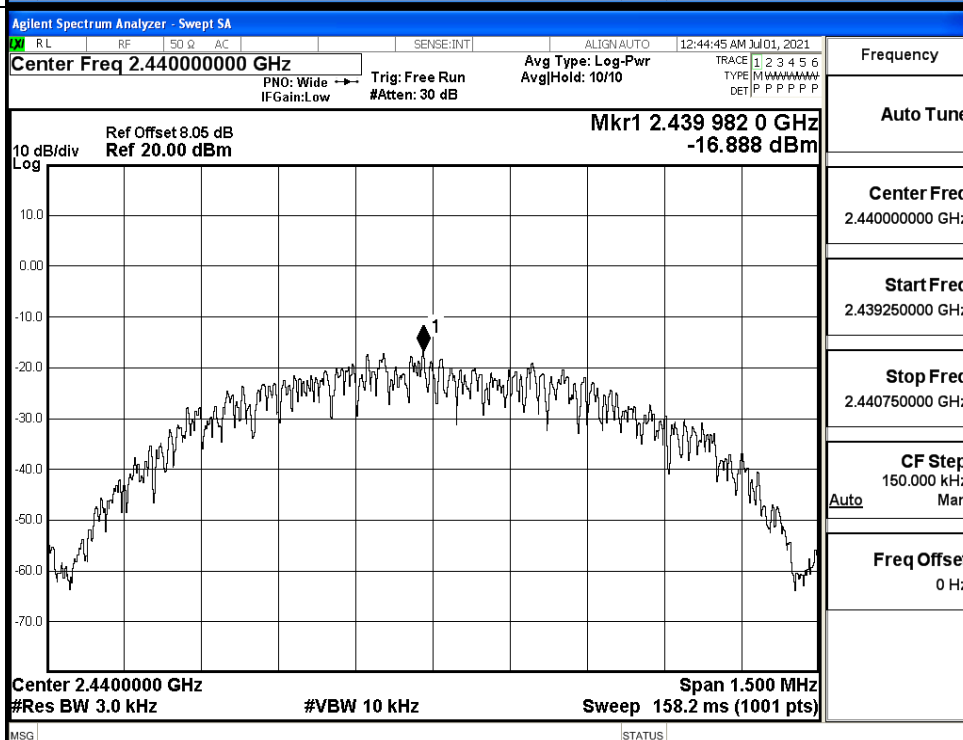
CF Step

150.000 kHz
Auto Man

Freq Offset

0 Hz

MCH



Frequency

Auto Tune

Center Freq

2.440000000 GHz

Start Freq

2.439250000 GHz

Stop Freq

2.440750000 GHz

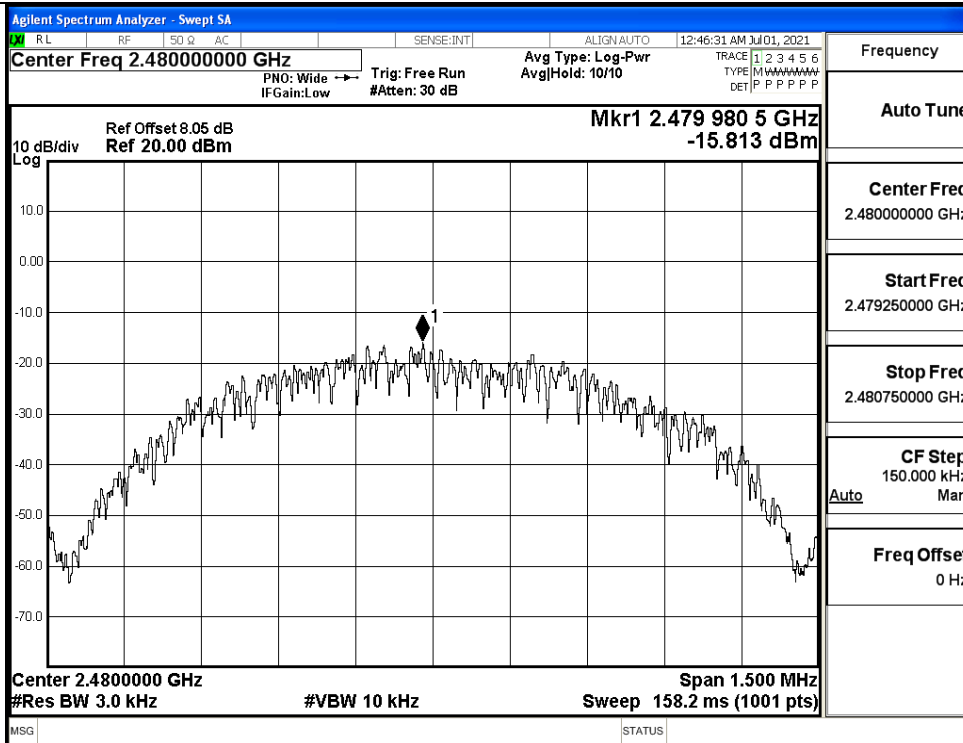
CF Step

150.000 kHz
Auto Man

Freq Offset

0 Hz

HCH

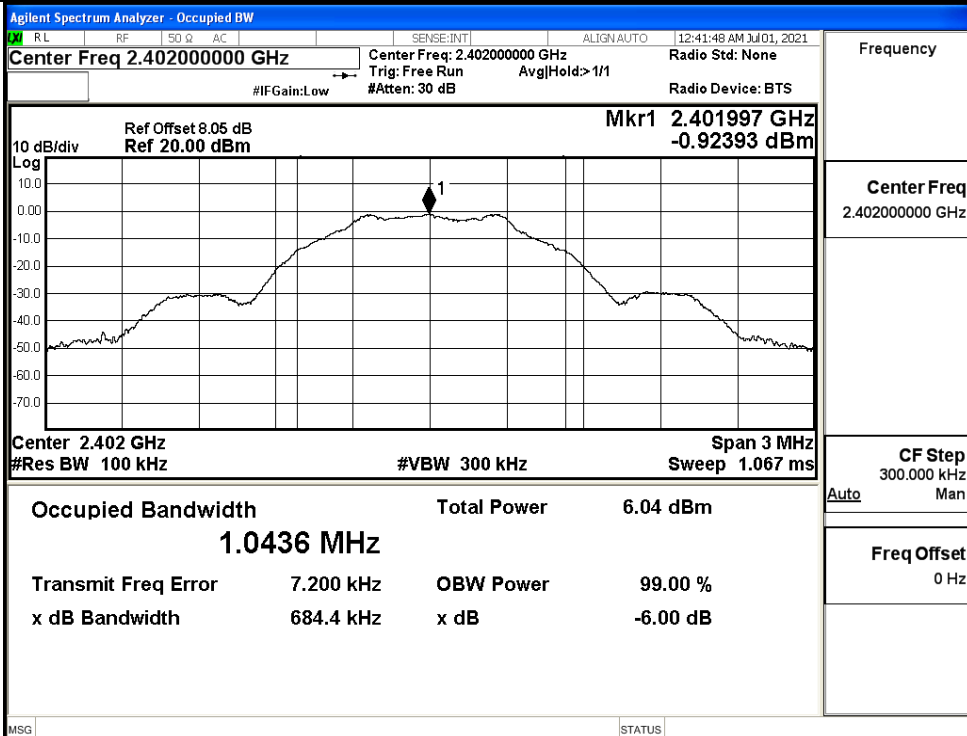


A.4 6dB Bandwidth

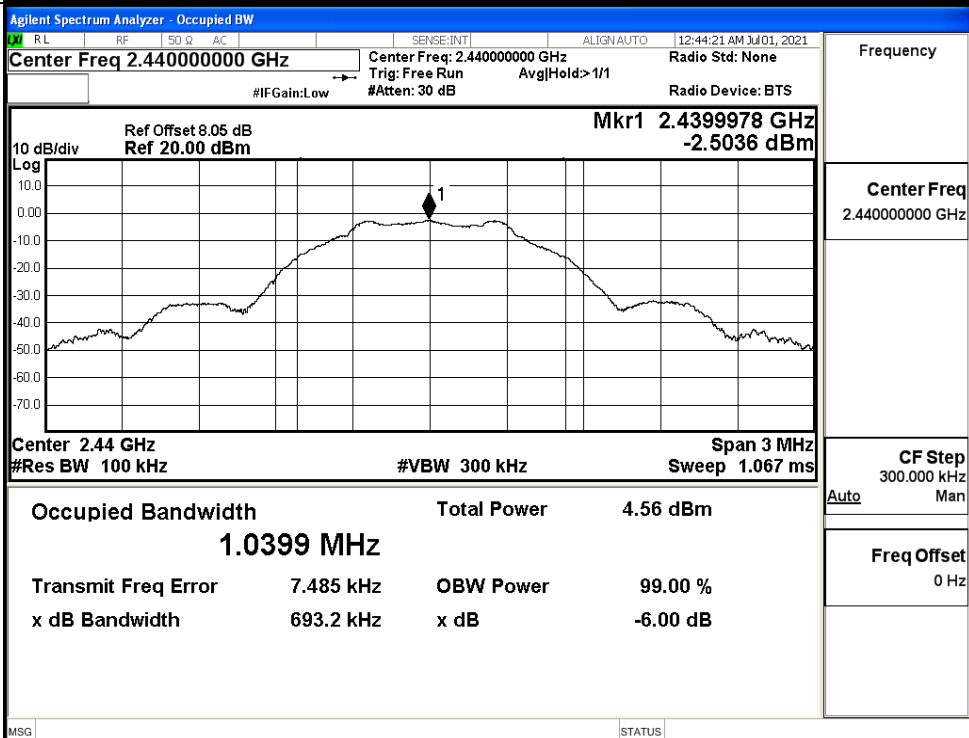
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6844	≥ 0.5	PASS
BT LE	MCH	0.6932	≥ 0.5	PASS
BT LE	HCH	0.6918	≥ 0.5	PASS

Test Graphs

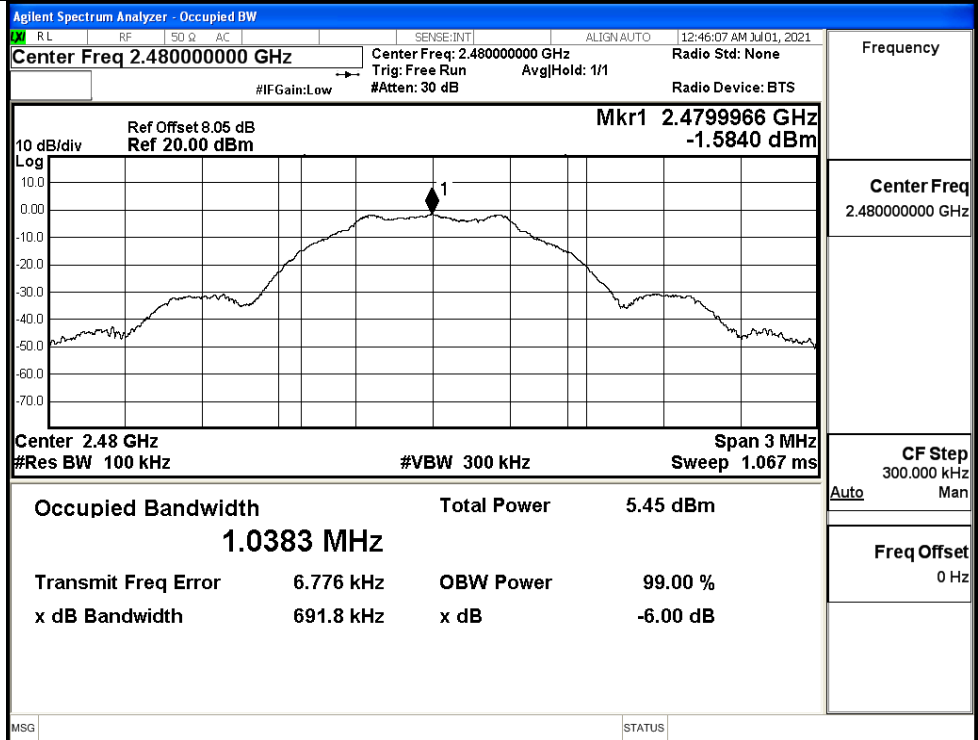
LCH



MCH



HCH

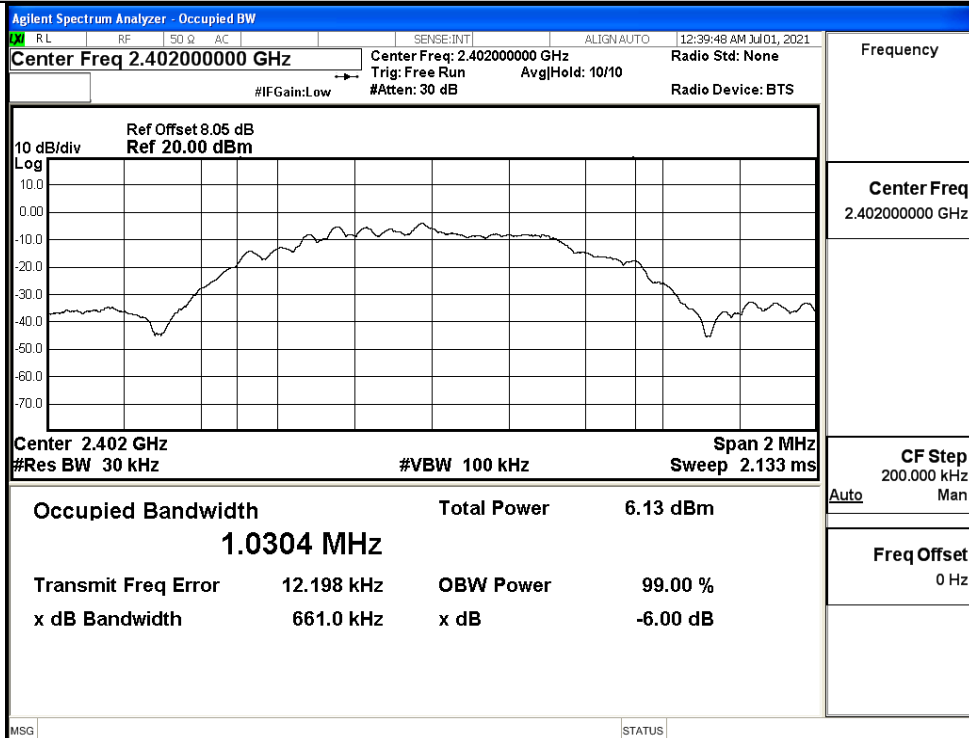


A.5 Occupied Bandwidth

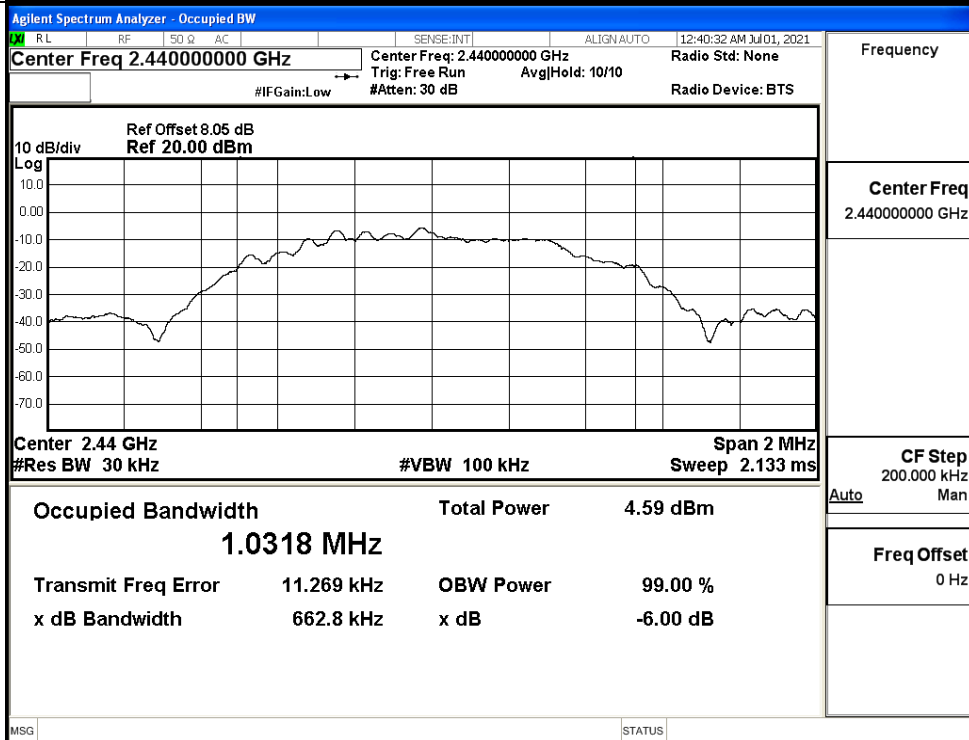
Mode	Channel	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.0304	Not Specified	PASS
BT LE	MCH	1.0318	Not Specified	PASS
BT LE	HCH	1.0297	Not Specified	PASS

Test Graphs

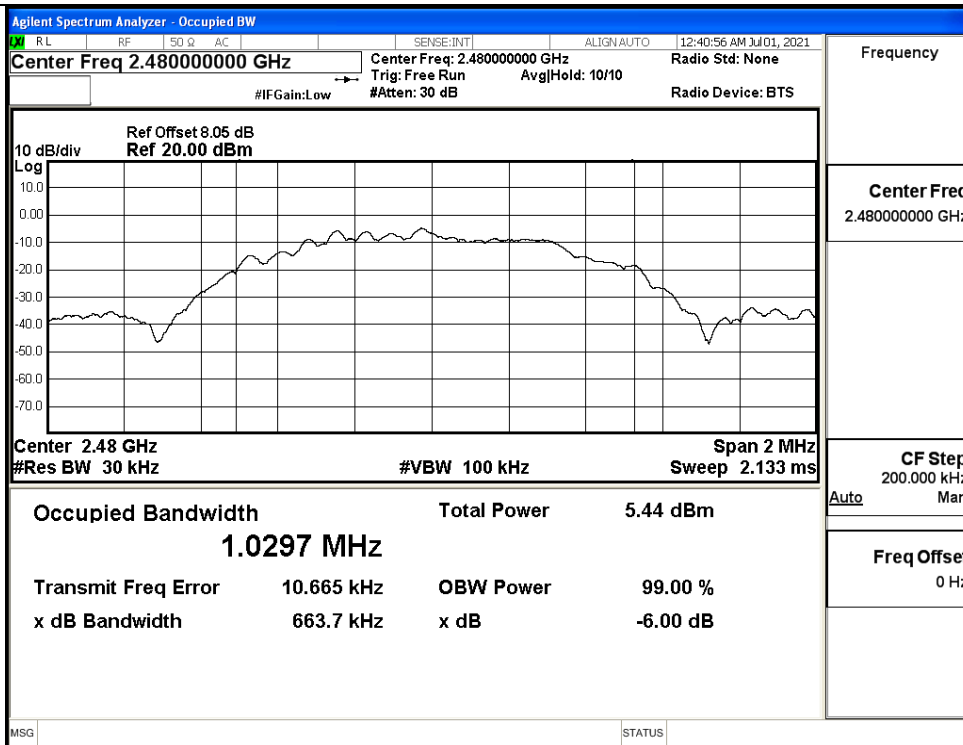
LCH



MCH



HCH



Frequency

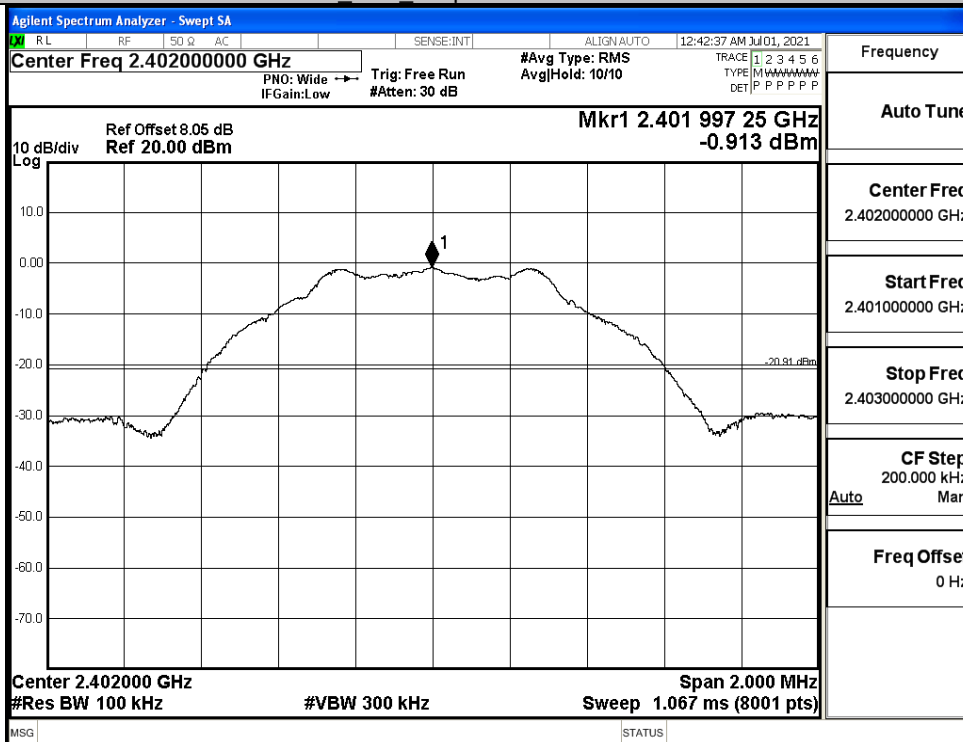
Center Freq
2.480000000 GHzCF Step
200.000 kHz
Auto ManFreq Offset
0 Hz

A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.913	-37.486	-20.913	PASS
BT LE	MCH	-2.485	-38.438	-22.485	PASS
BT LE	HCH	-1.6	-37.432	-21.600	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

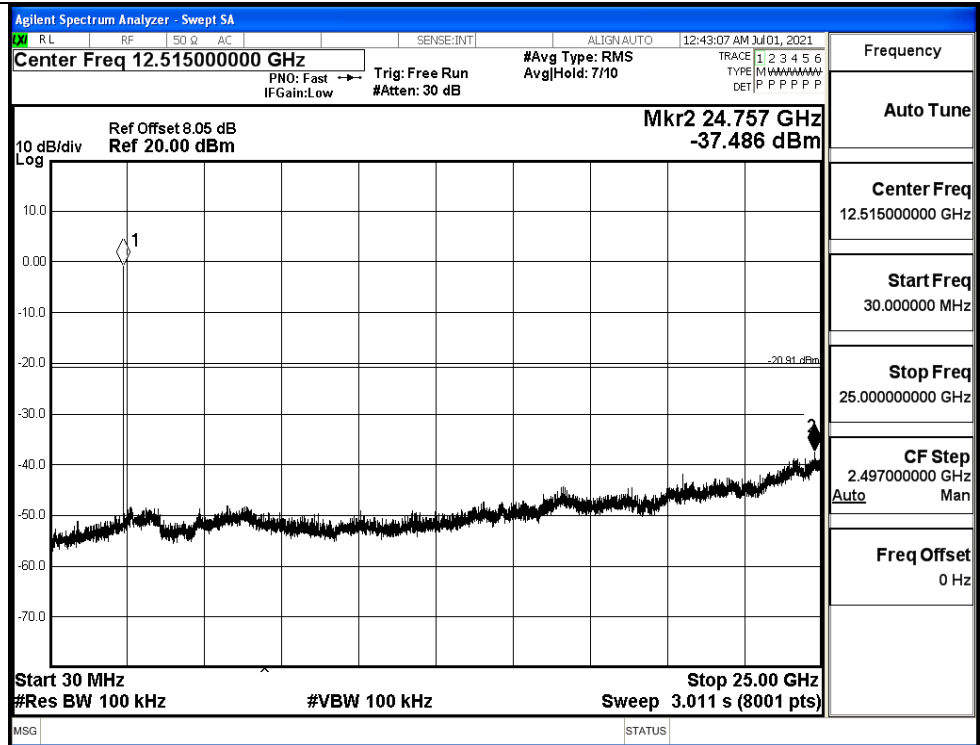


Frequency

Auto Tune

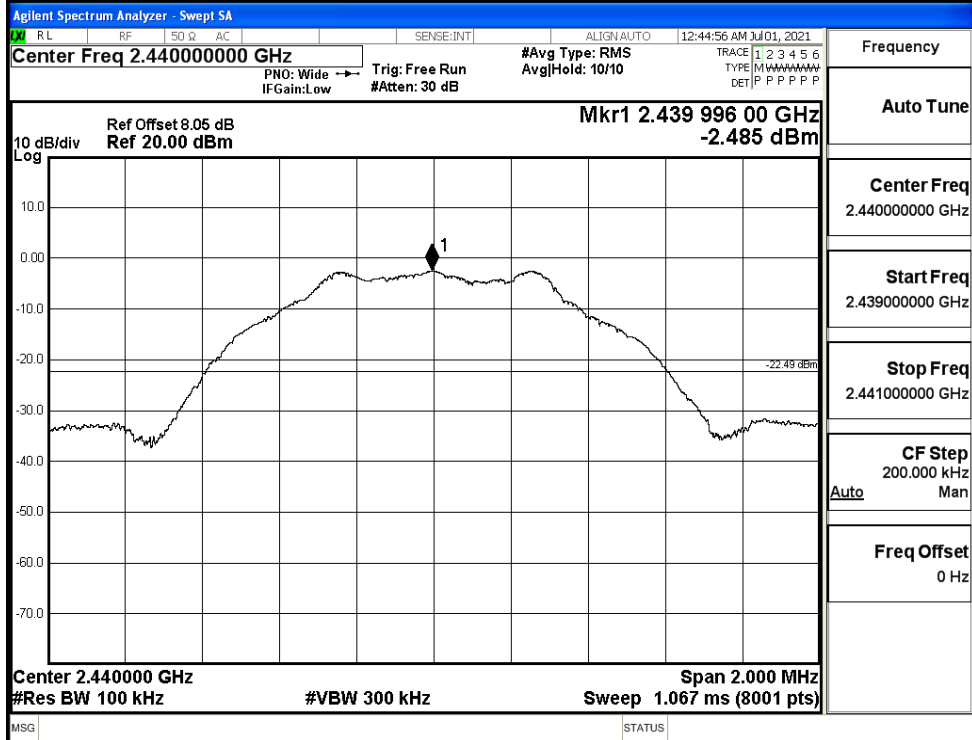
Center Freq
2.402000000 GHzStart Freq
2.401000000 GHzStop Freq
2.403000000 GHzCF Step
200.000 kHz
Auto ManFreq Offset
0 Hz

Puw/BT LE/LCH

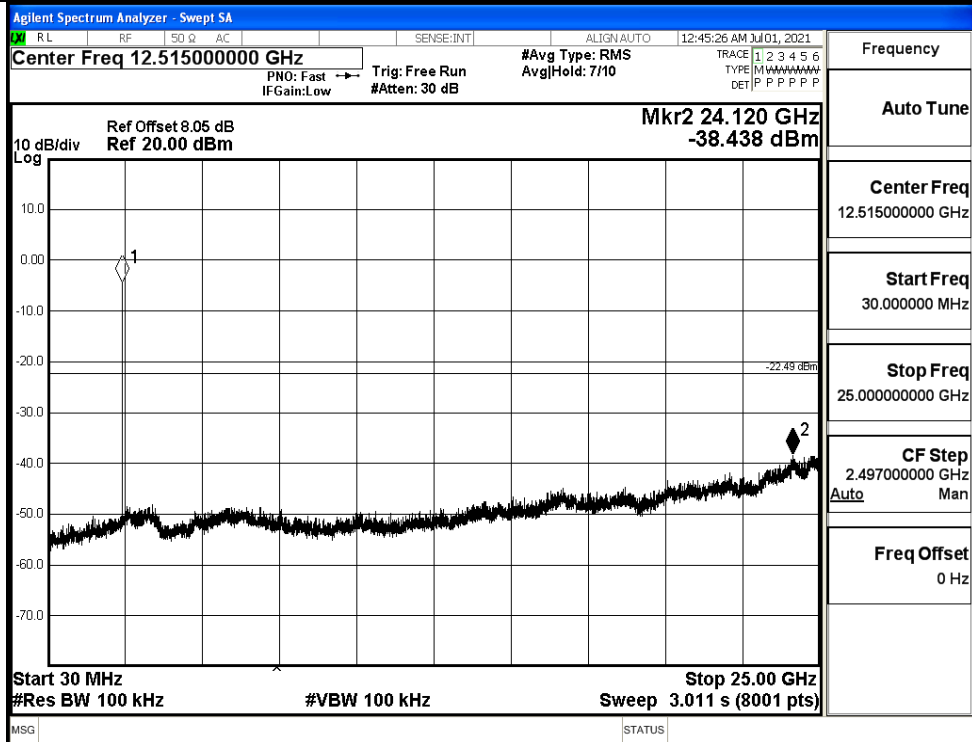


BT LE MCH Graphs

Pref/BT LE/MCH

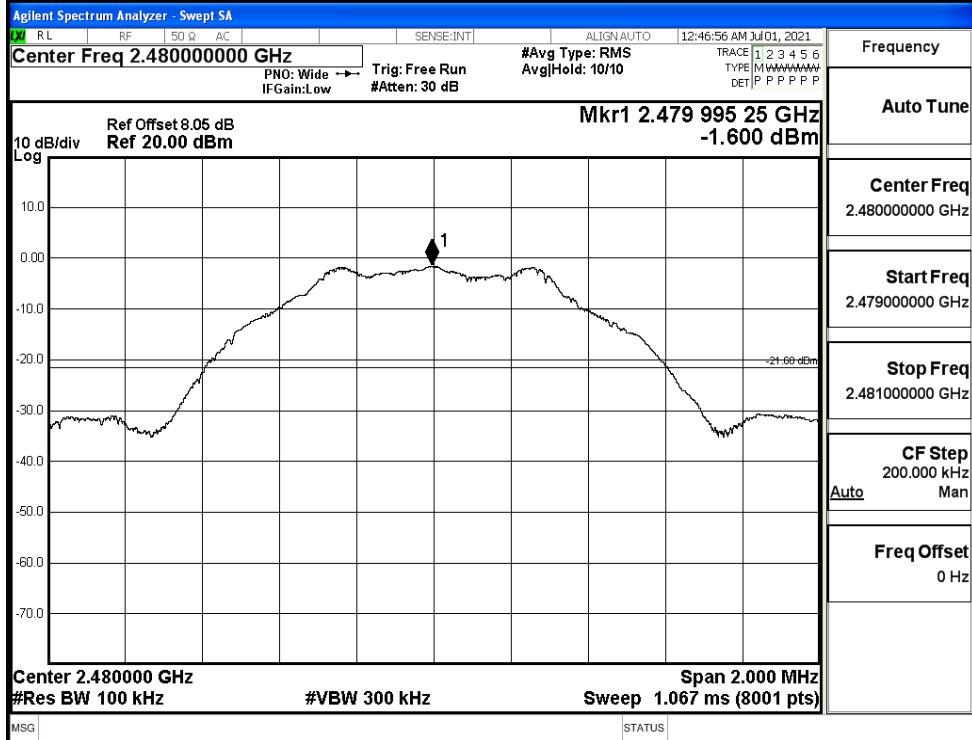


Puw/BT LE/MCH

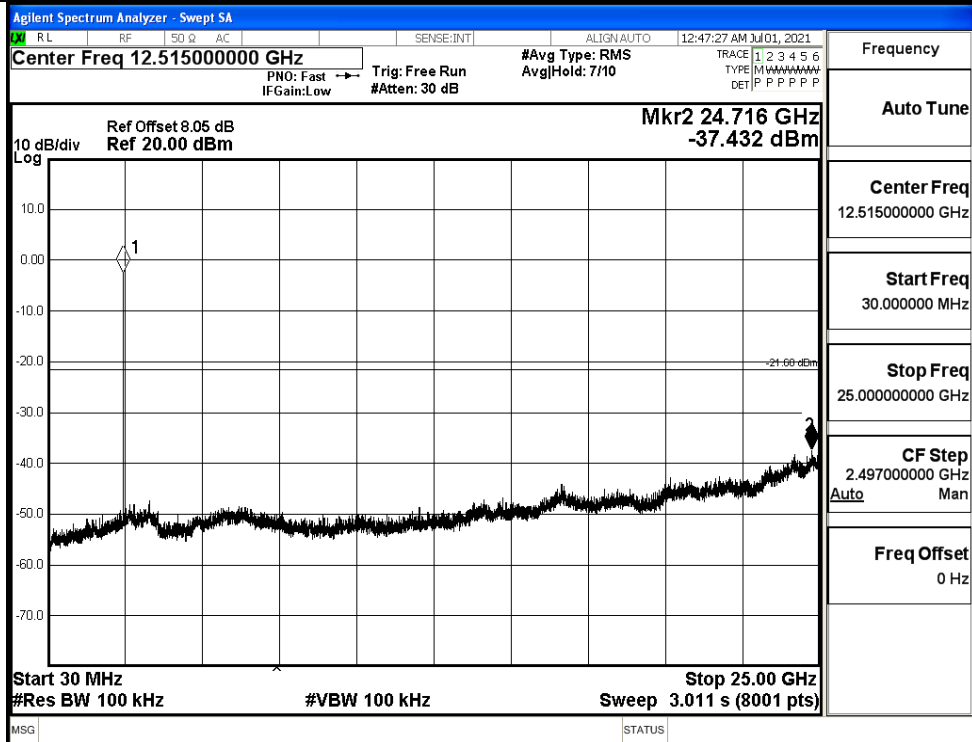


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

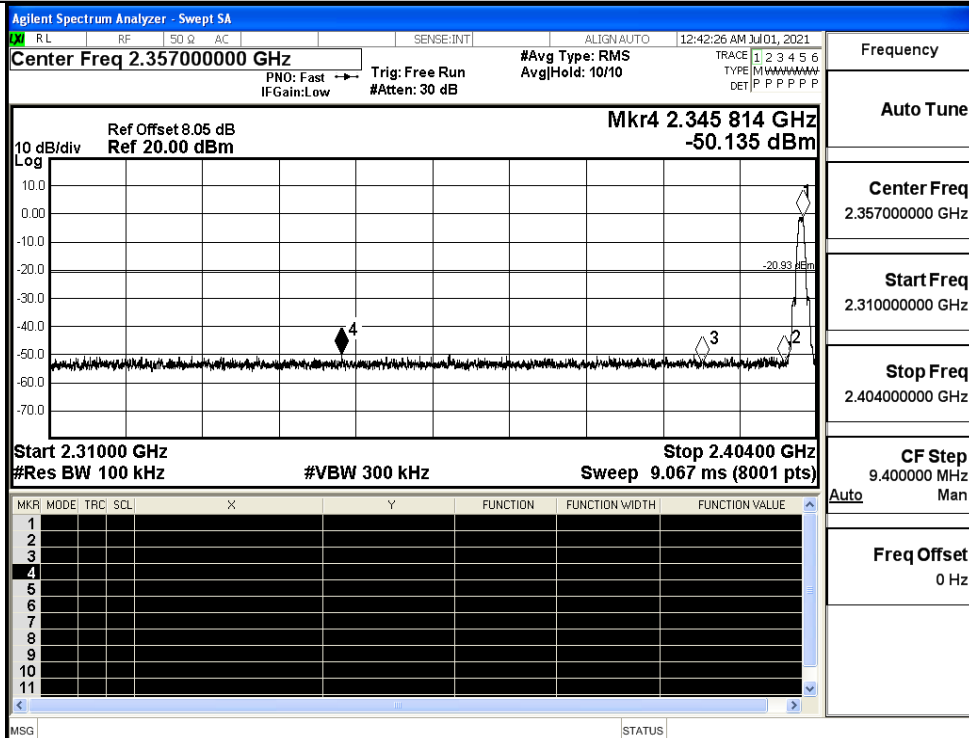


A.7 Band-edge for RF Conducted Emissions

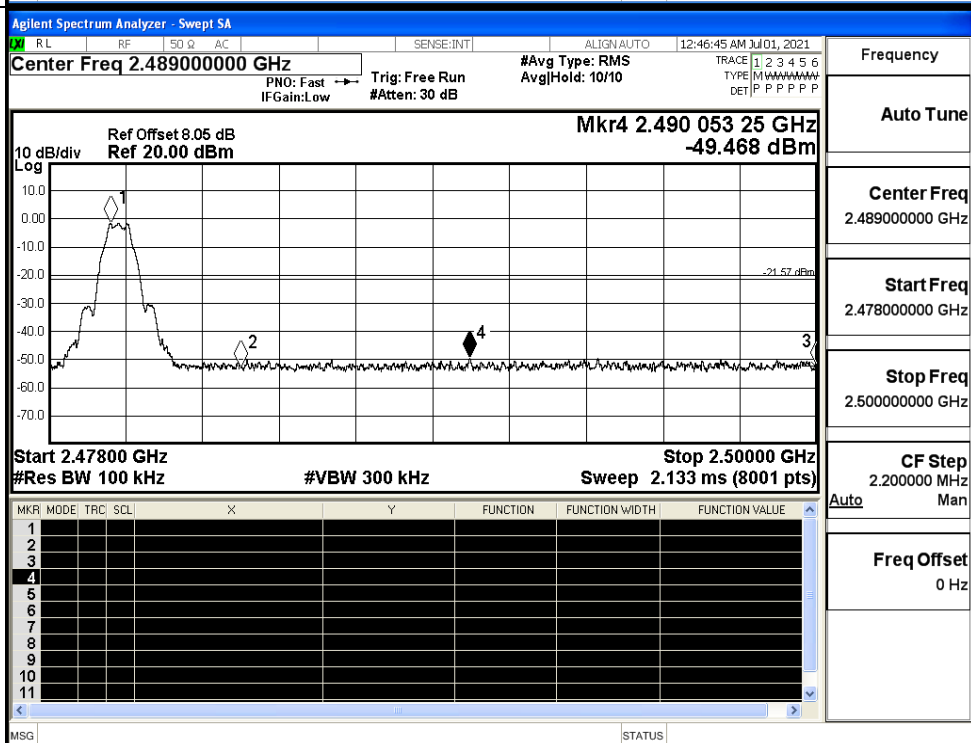
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.931	-50.135	-20.93	PASS
BT LE	HCH	-1.572	-49.468	-21.57	PASS

Test Graphs

LCH



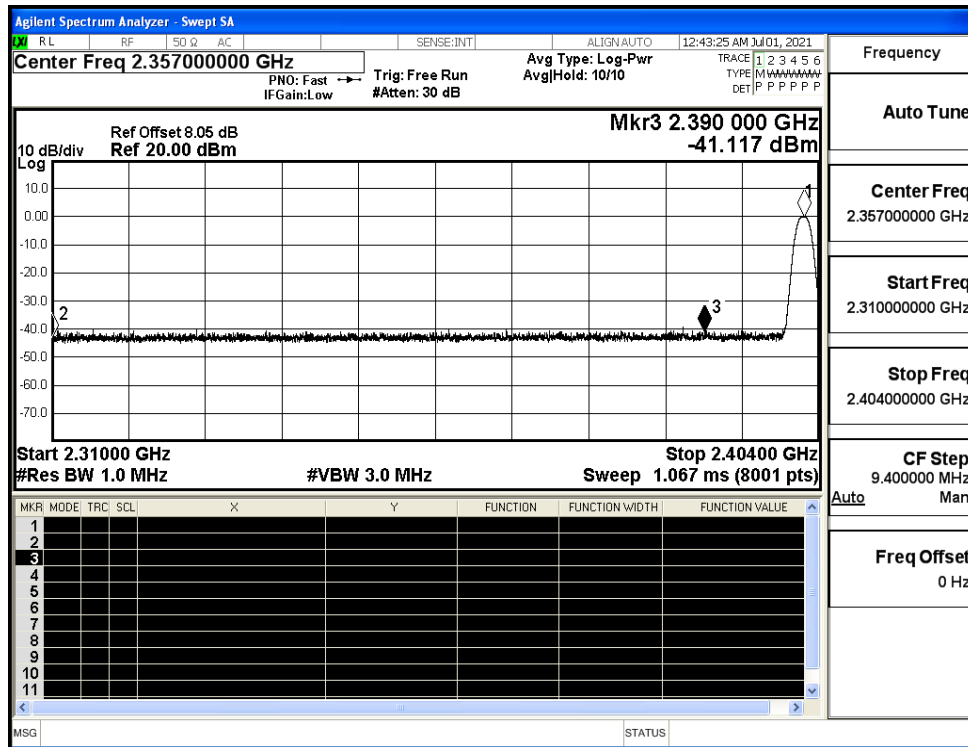
HCH



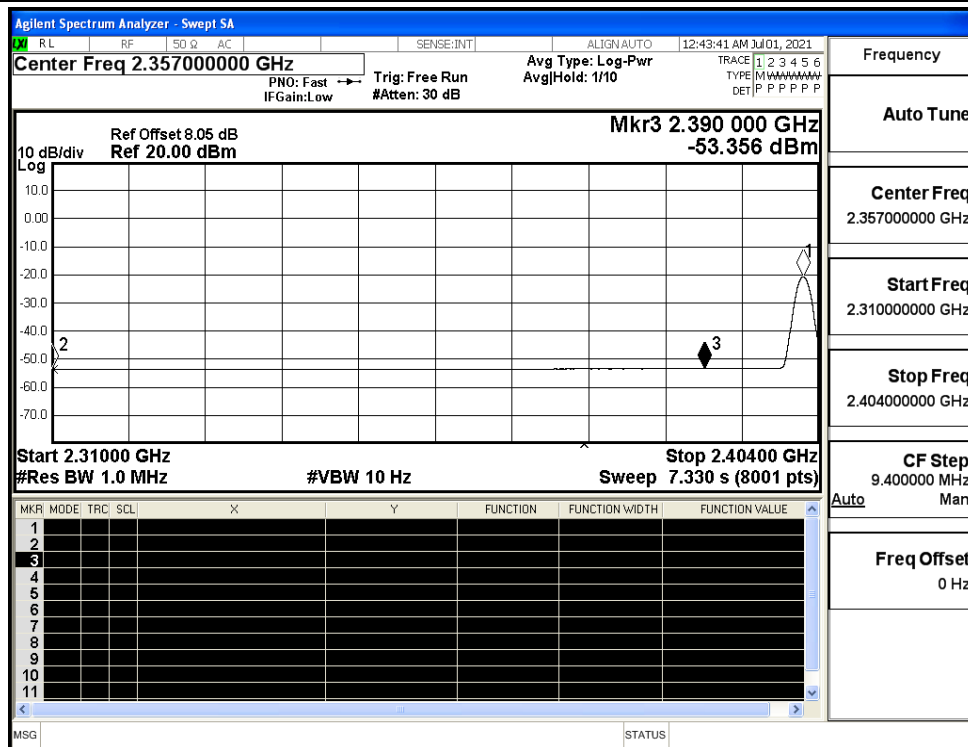
A.8 Restrict-band band-edge measurements

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	-43.47	2.0	0	51.79	PEAK	74	PASS
		Ant1	2310.0	-53.68	2.0	0	41.58	AV	54	PASS
		Ant1	2390.0	-41.12	2.0	0	54.14	PEAK	74	PASS
		Ant1	2390.0	-53.36	2.0	0	41.90	AV	54	PASS
	2480	Ant1	2483.5	-42.18	2.0	0	53.08	PEAK	74	PASS
		Ant1	2483.5	-52.87	2.0	0	42.39	AV	54	PASS
		Ant1	2500.0	-41.75	2.0	0	53.51	PEAK	74	PASS
		Ant1	2500.0	-52.70	2.0	0	42.56	AV	54	PASS

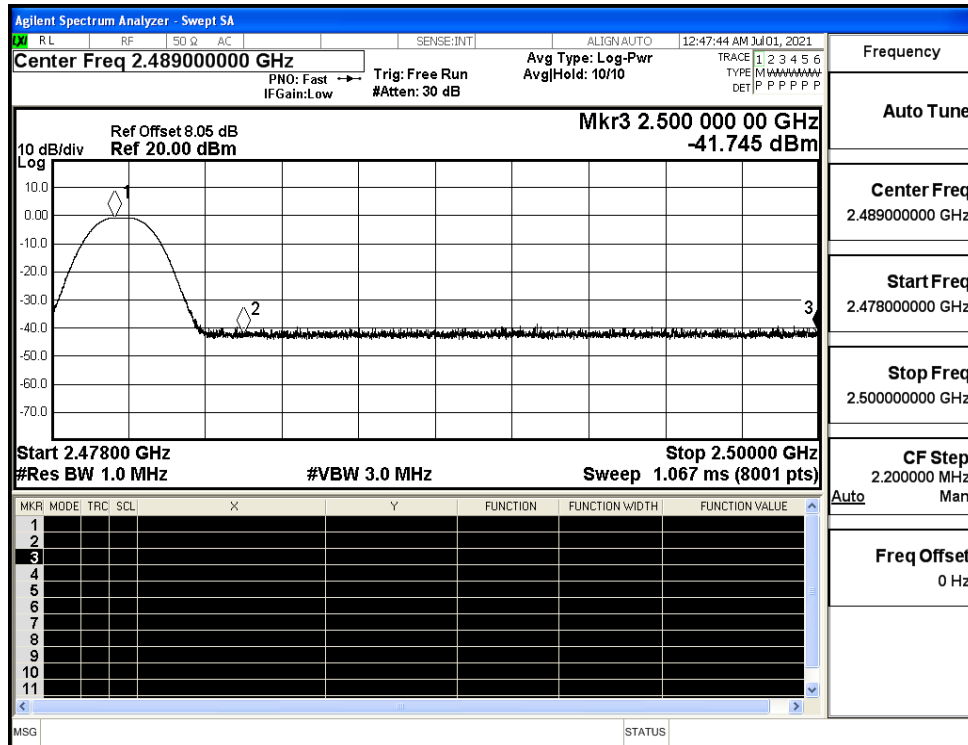
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

