

Appendix A

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

Product Name: Remote Control

Trade Mark: xunison

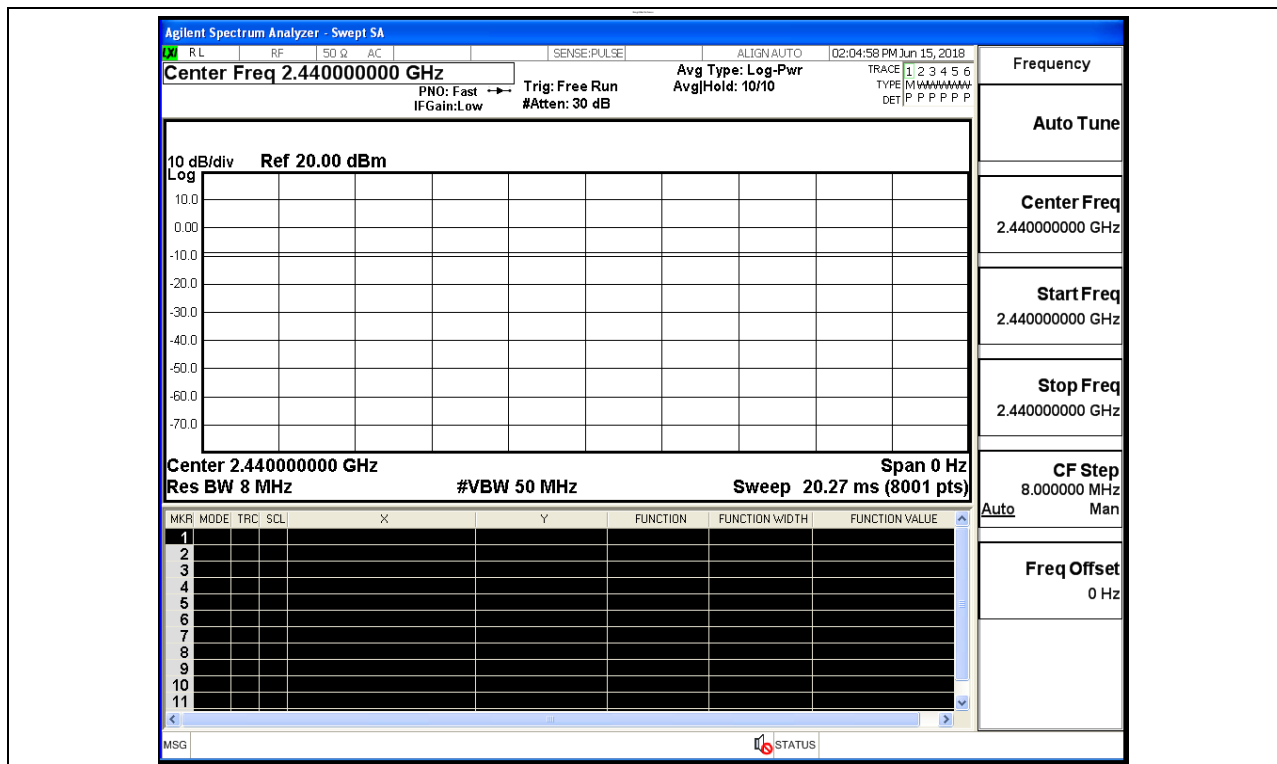
Test Model: BLE RCU

Environmental Conditions

Temperature:	22.2 ° C
Relative Humidity:	53.7%
ATM Pressure:	100.0 kPa
Test Engineer:	RYAN.HU
Supervised by:	Jayden.Zhuo

A.1 Duty Cycle

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

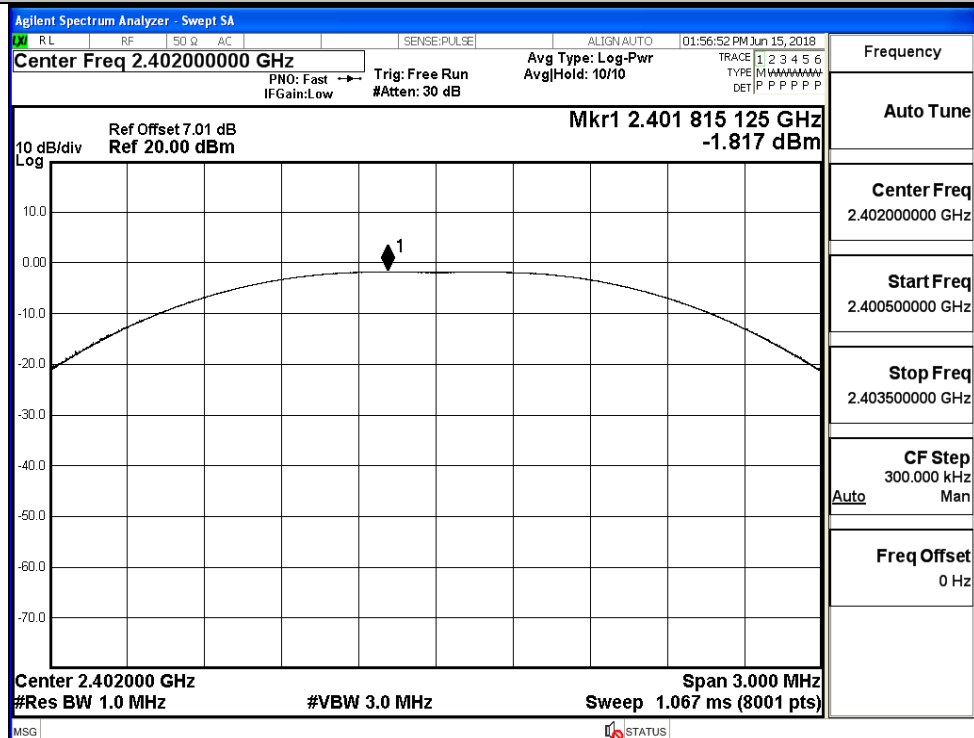


A.2 Maximum Conducted Peak Output Power

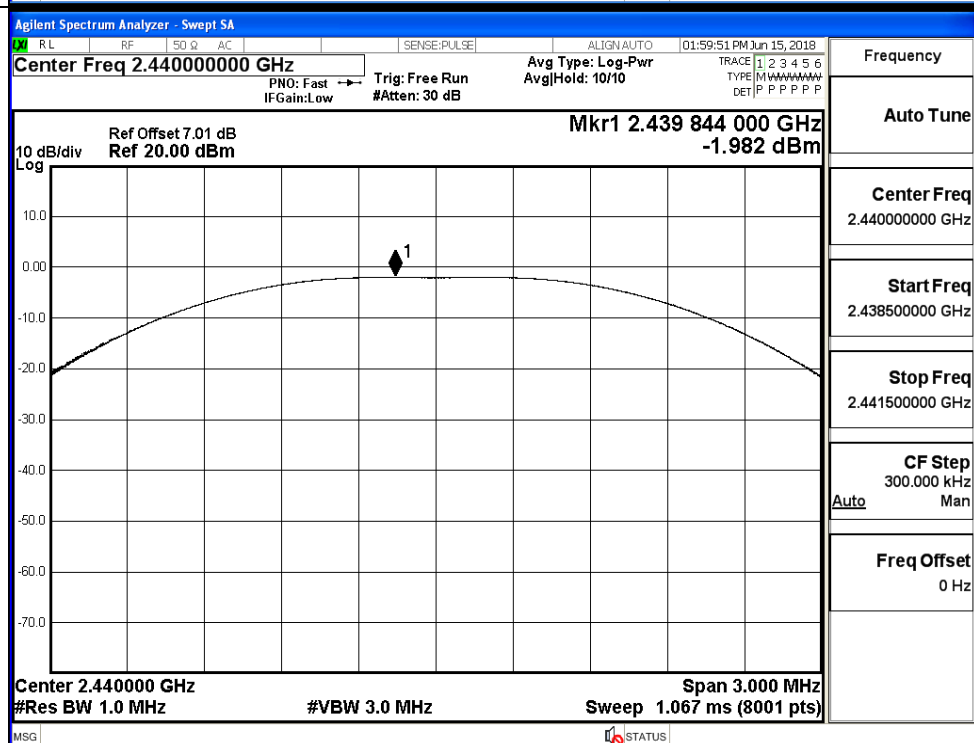
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.817	30	PASS
BT LE	MCH	-1.982	30	PASS
BT LE	HCH	-2.786	30	PASS

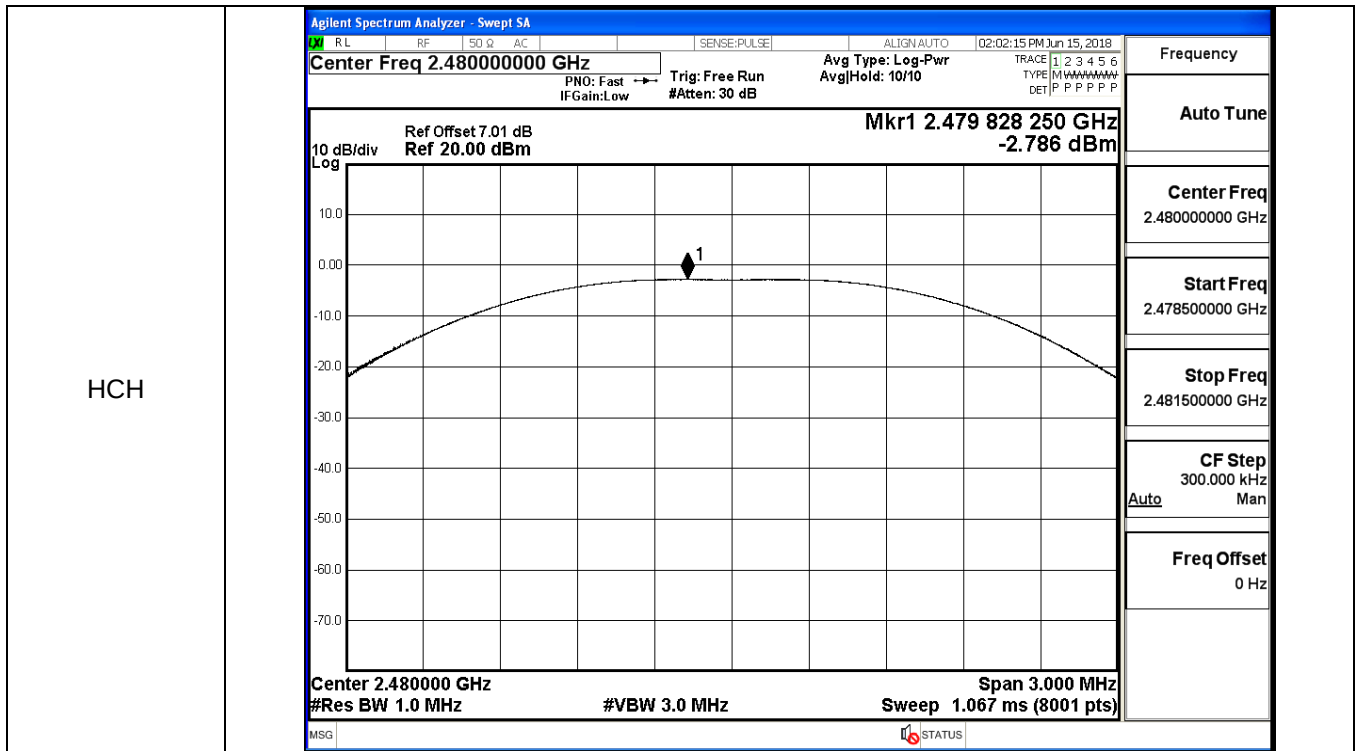
Test Graphs

LCH



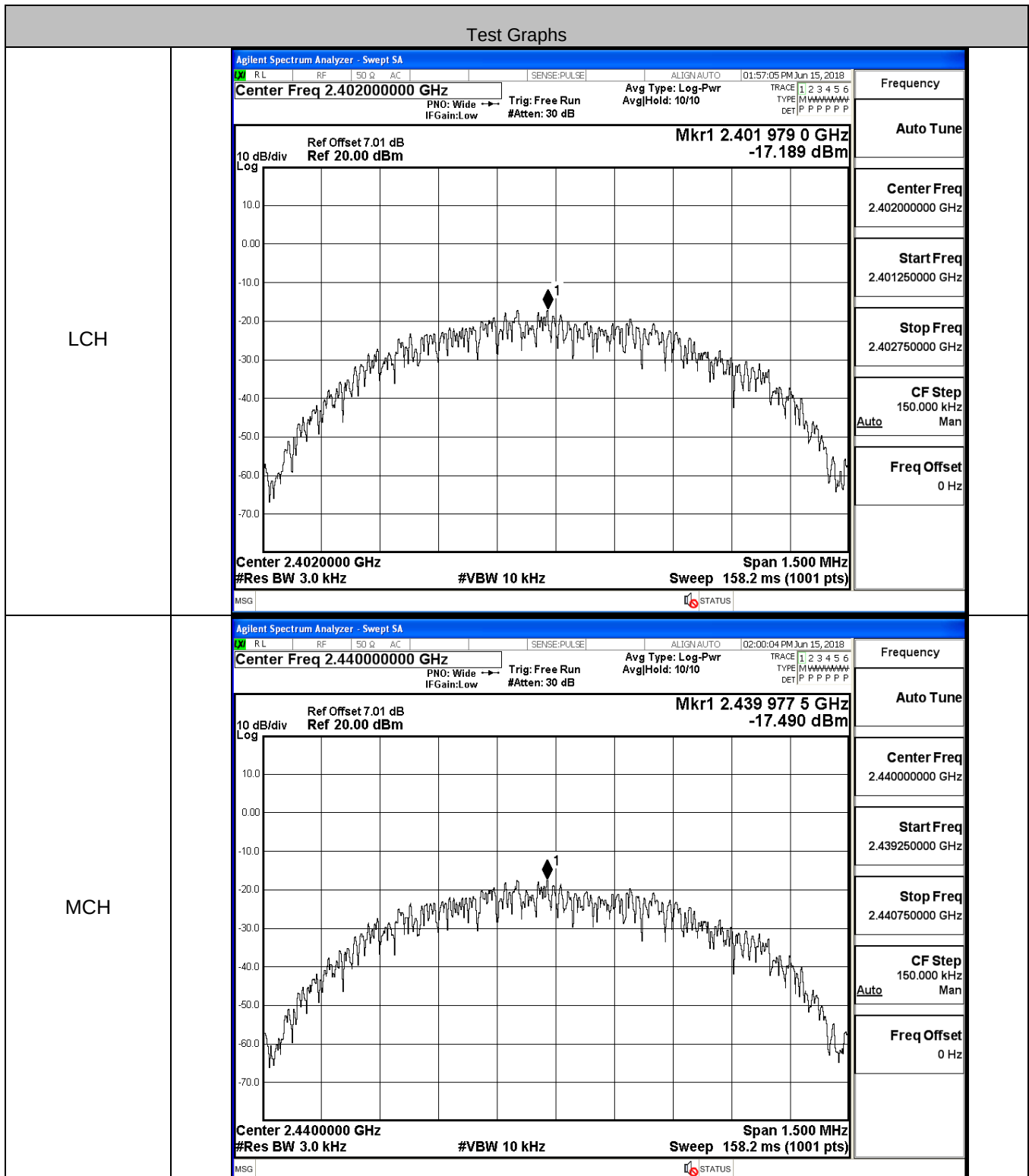
MCH



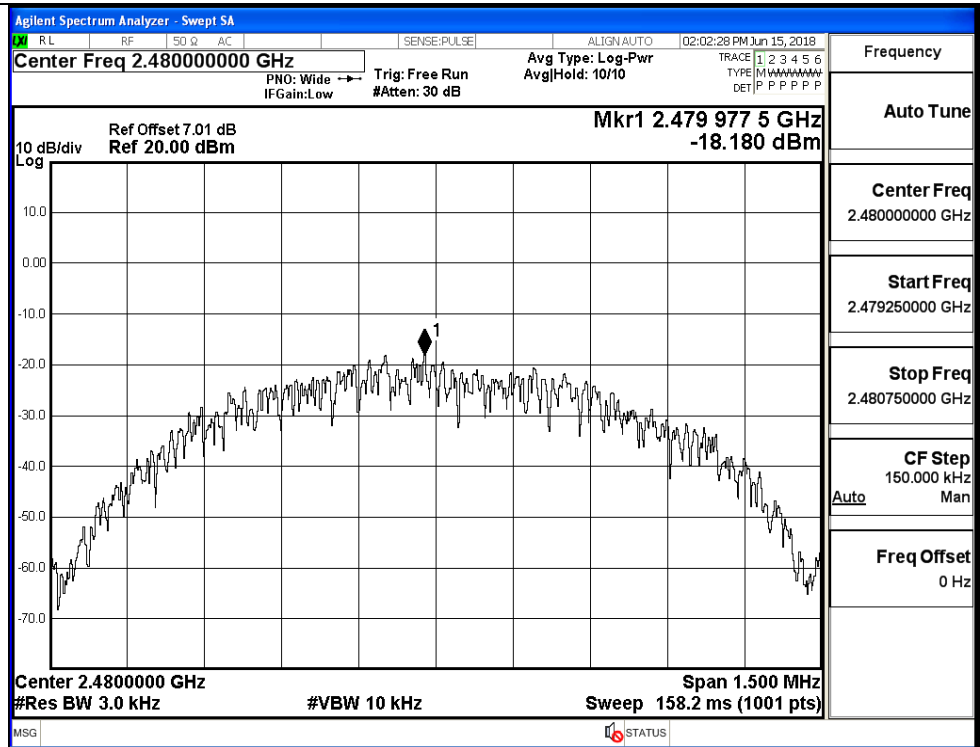


A.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-17.189	8	PASS
BT LE	MCH	-17.490	8	PASS
BT LE	HCH	-18.180	8	PASS



HCH

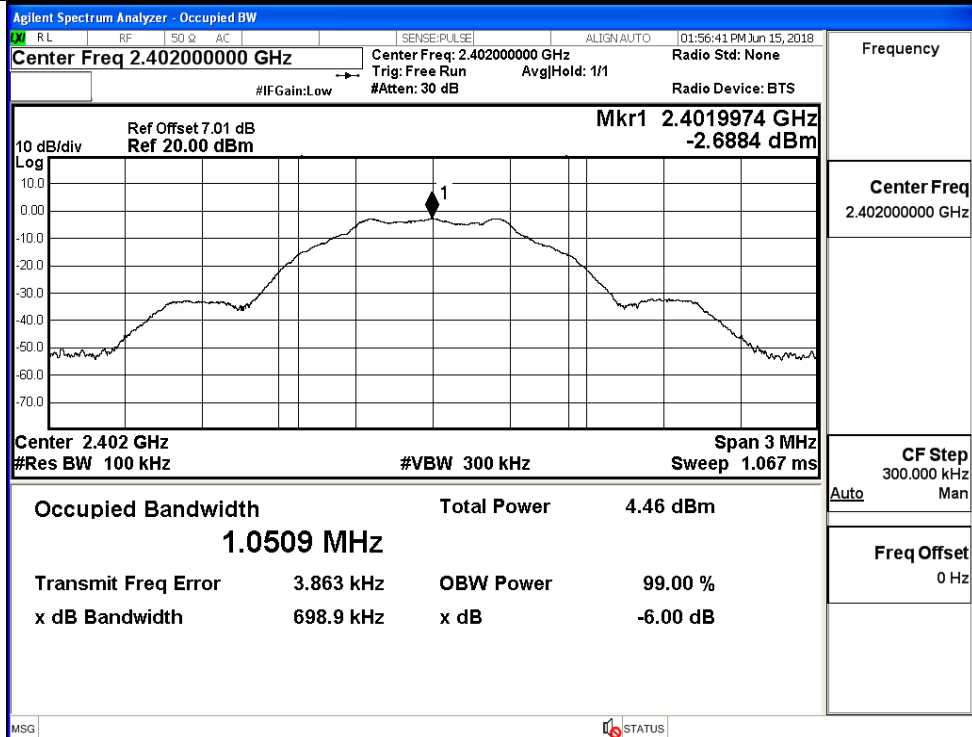


A.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6989	≥0.5	PASS
BT LE	MCH	0.7002	≥0.5	PASS
BT LE	HCH	0.7046	≥0.5	PASS

Test Graphs

LCH



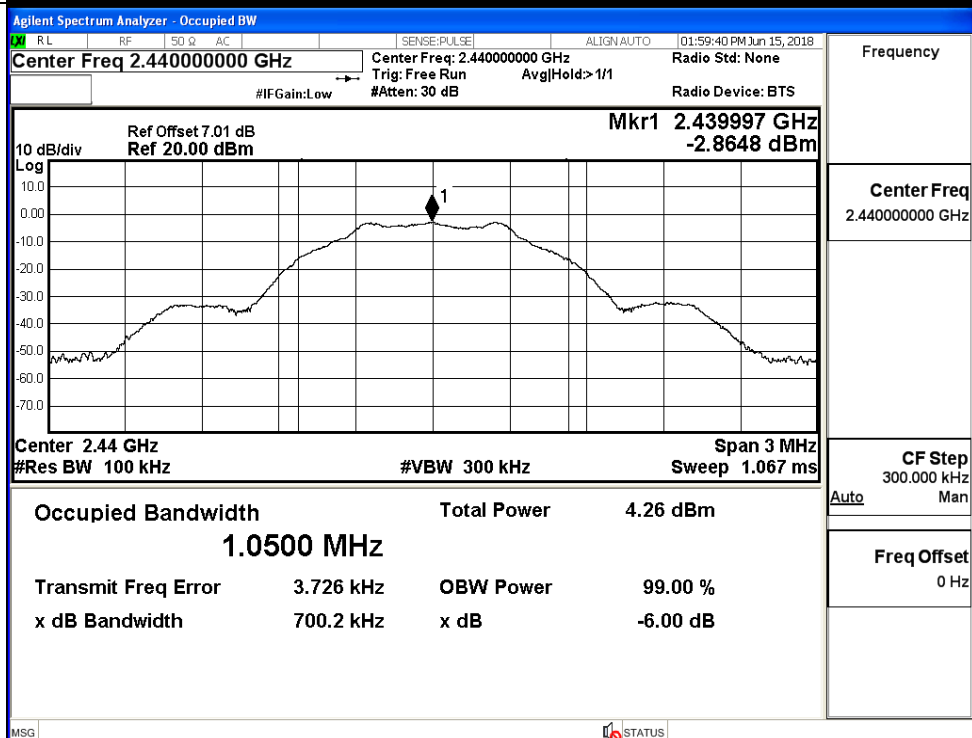
Frequency

Center Freq
2.402000000 GHz

CF Step
300.000 kHz
Auto Man

Freq Offset
0 Hz

MCH



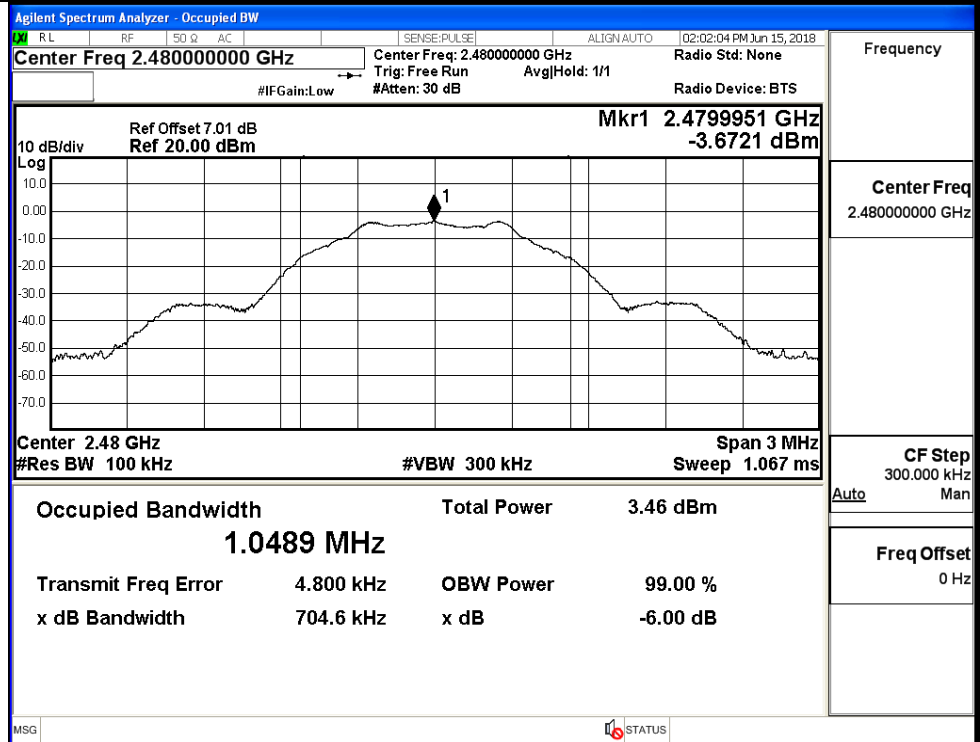
Frequency

Center Freq
2.440000000 GHz

CF Step
300.000 kHz
Auto Man

Freq Offset
0 Hz

HCH

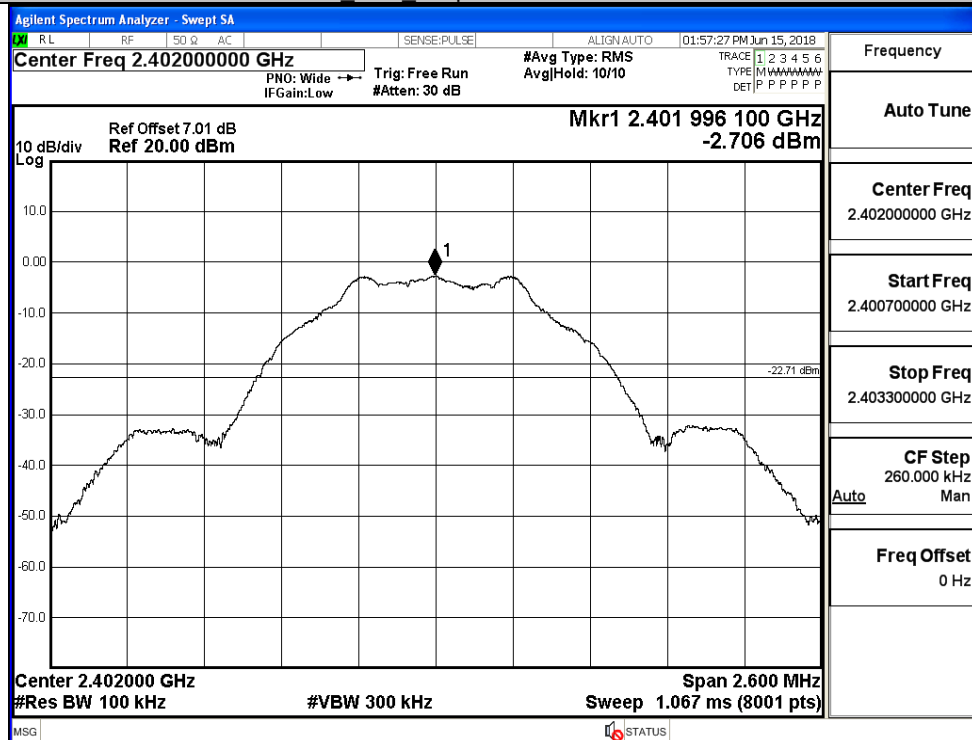


A.5 RF Conducted Spurious Emissions

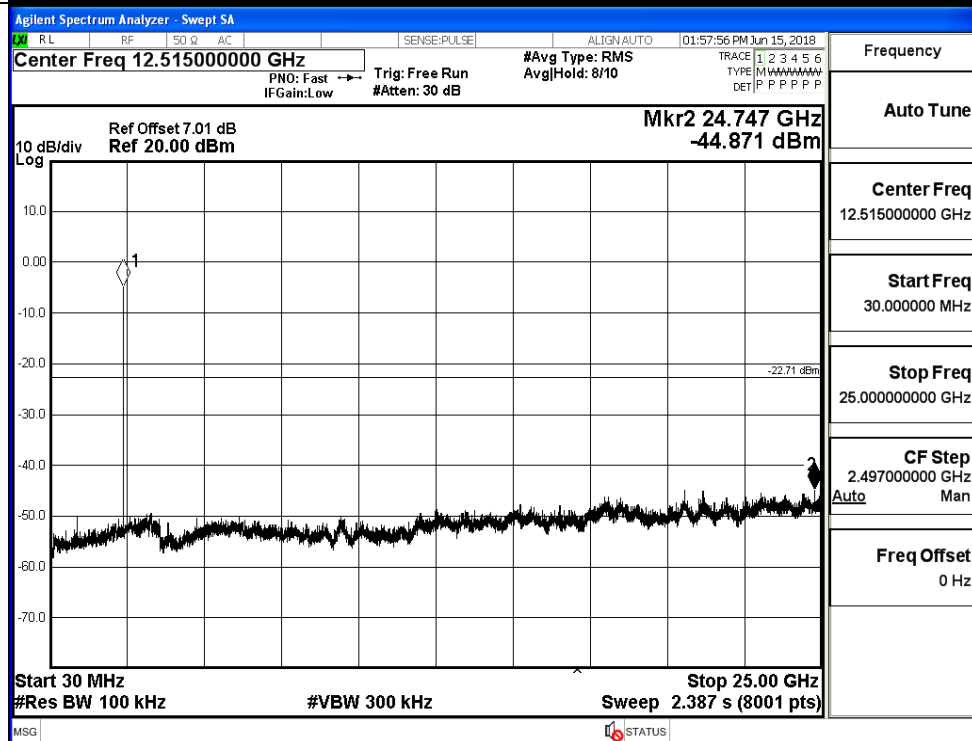
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.706	-44.871	-22.706	PASS
BT LE	MCH	-2.87	-44.623	-22.870	PASS
BT LE	HCH	-3.734	-44.448	-23.734	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

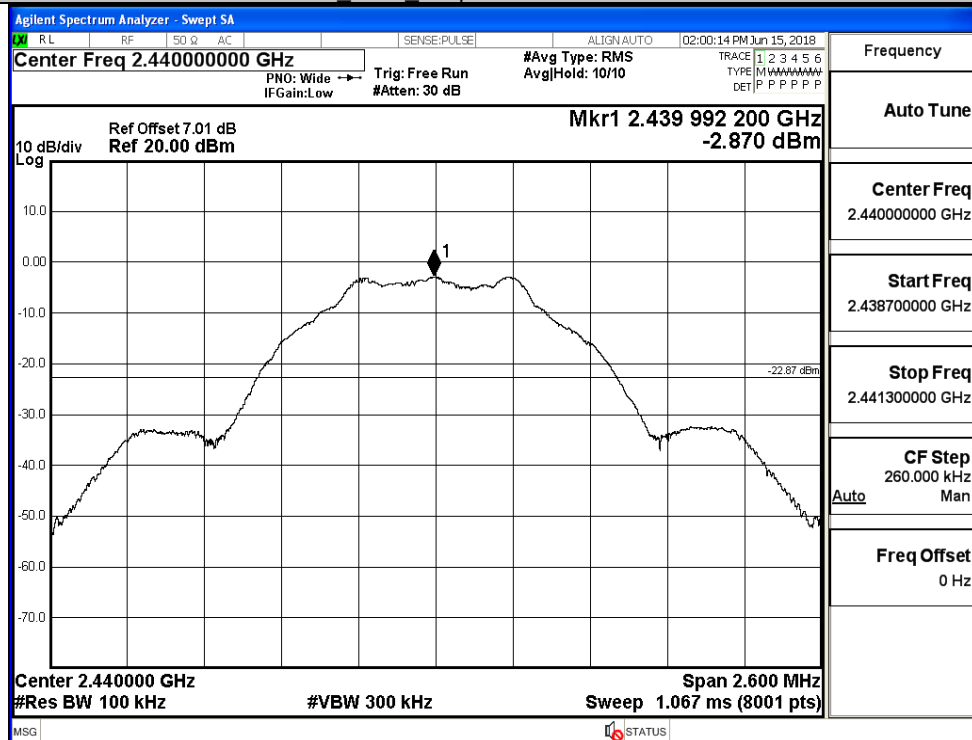


Puw/BT LE/LCH

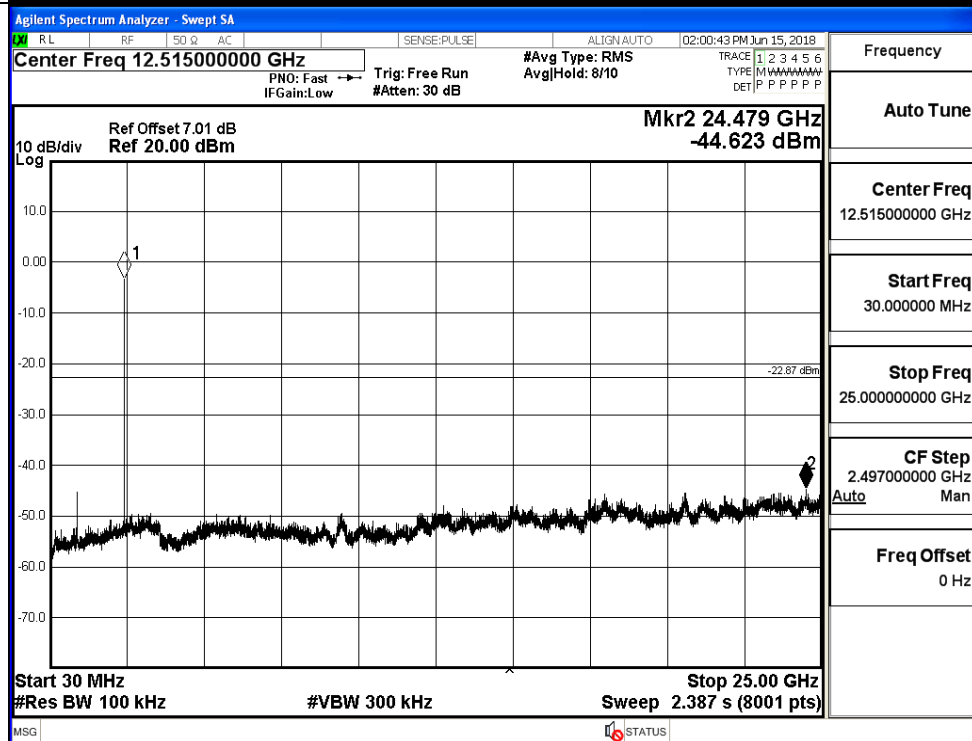


BT LE MCH Graphs

Pref/BT LE/MCH

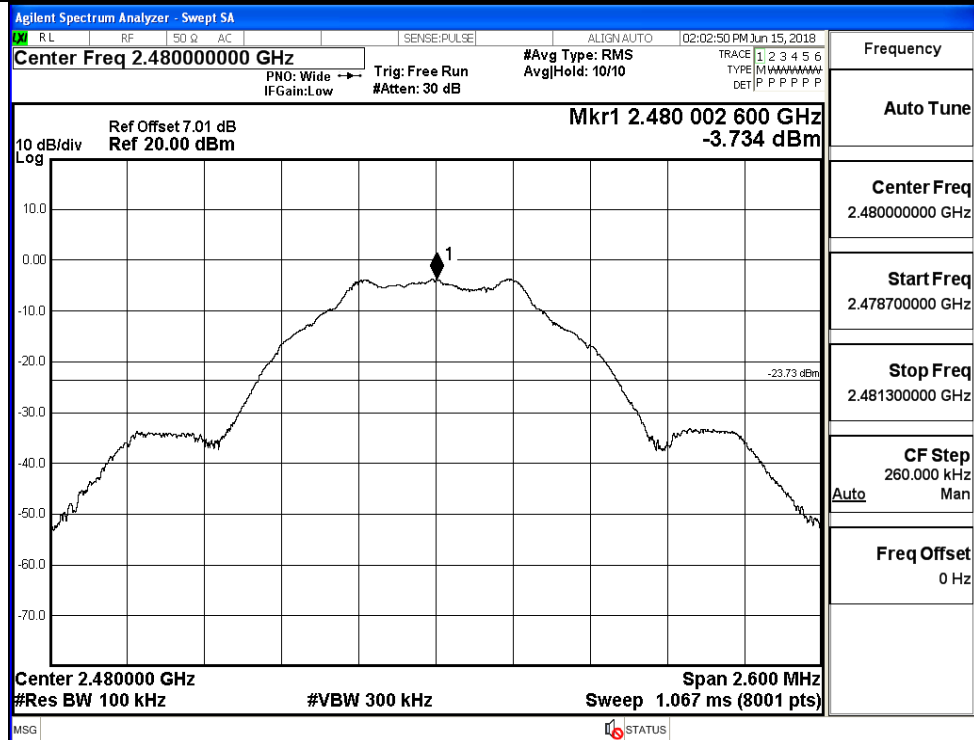


Puw/BT LE/MCH

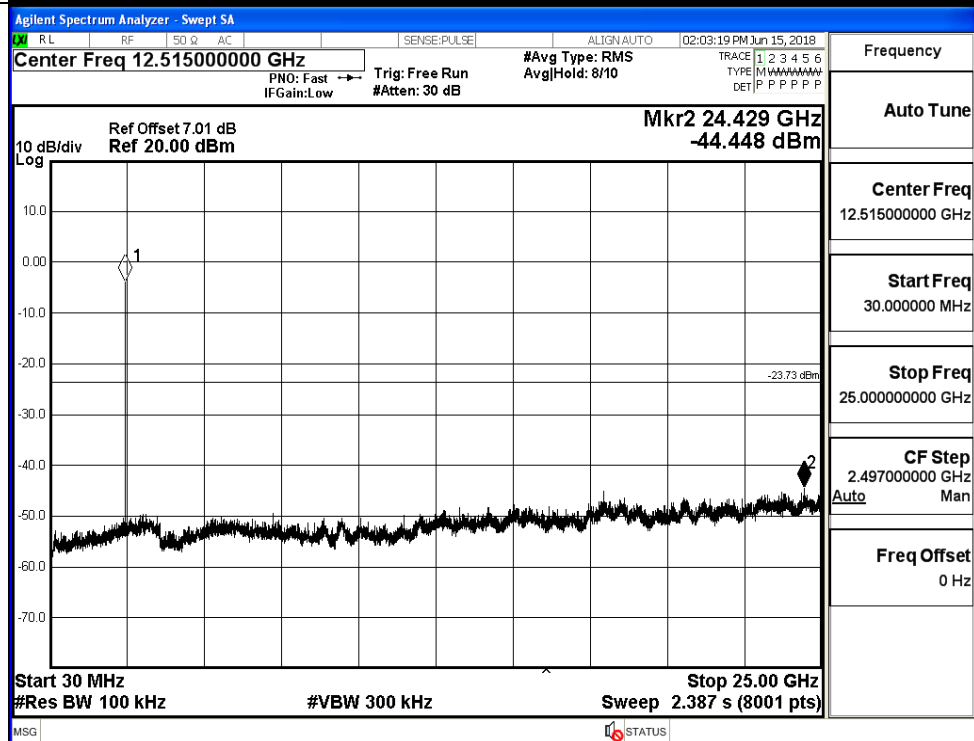


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

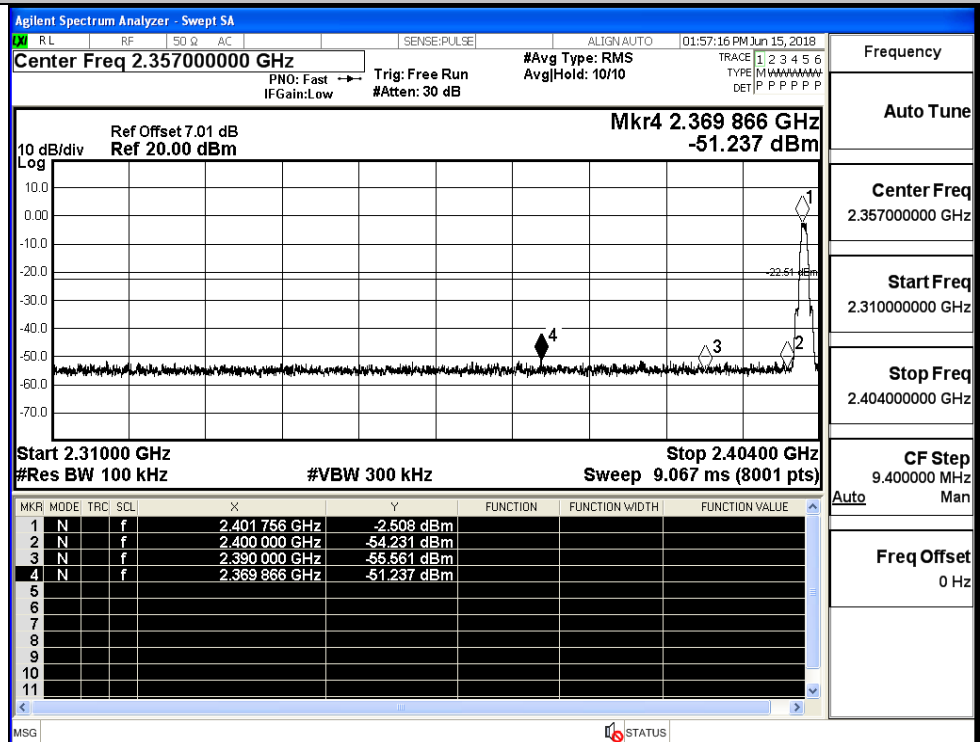


A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.508	-51.237	-22.51	PASS
BT LE	HCH	-3.557	-50.752	-23.56	PASS

Test Graphs

LCH

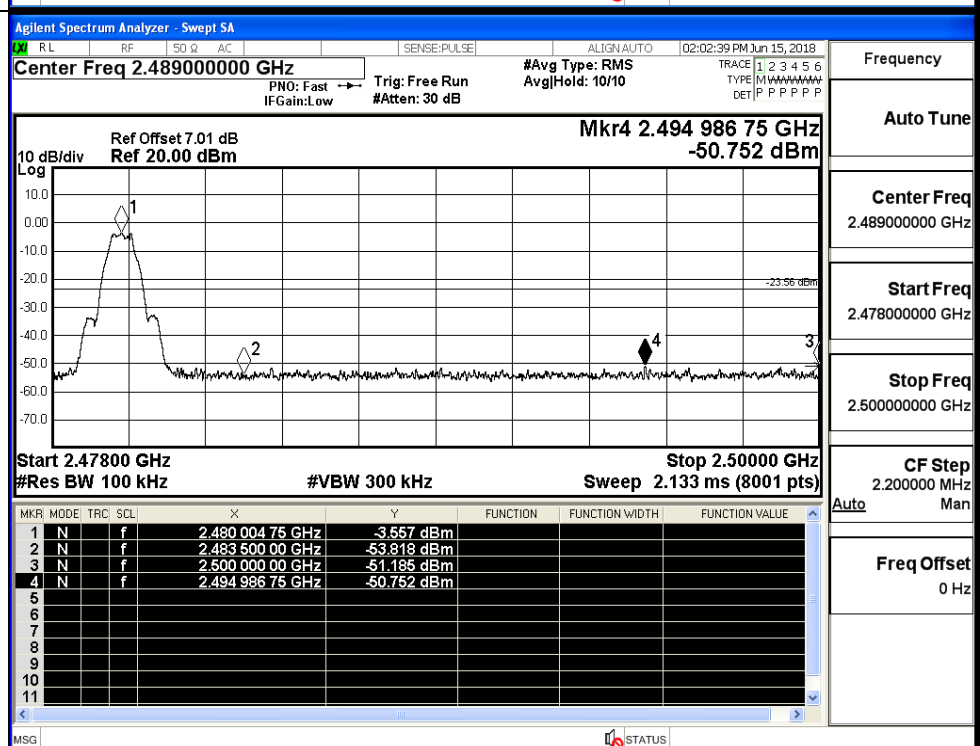


Frequency

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

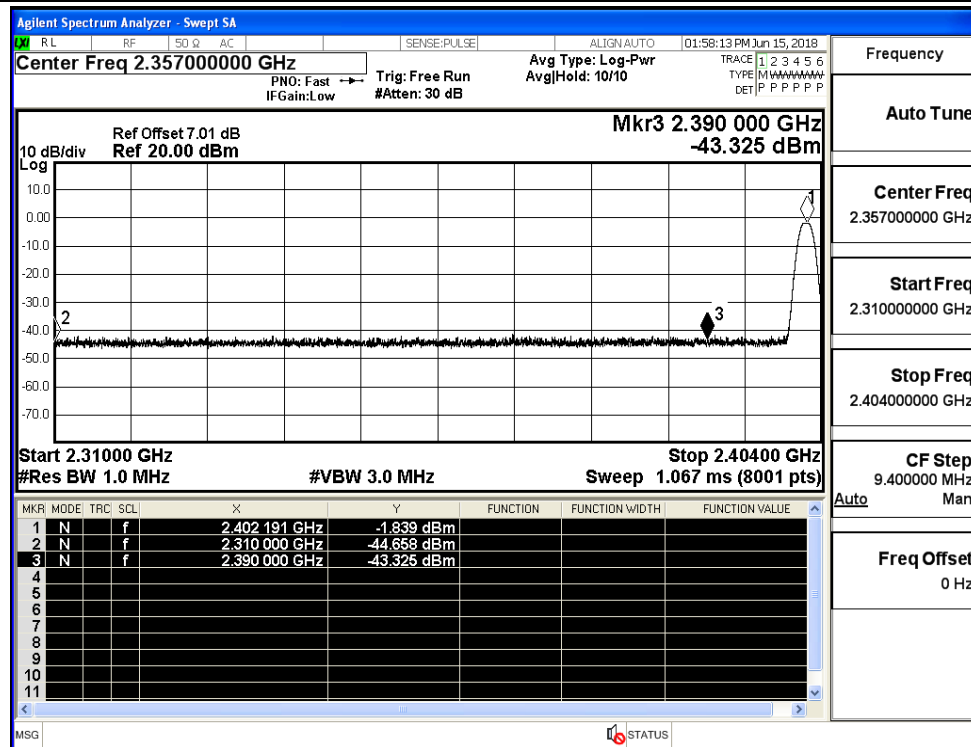
Auto Tune

Center Freq
2.489000000 GHzStart Freq
2.478000000 GHzStop Freq
2.500000000 GHzCF Step
2.200000 MHz
Auto ManFreq Offset
0 Hz

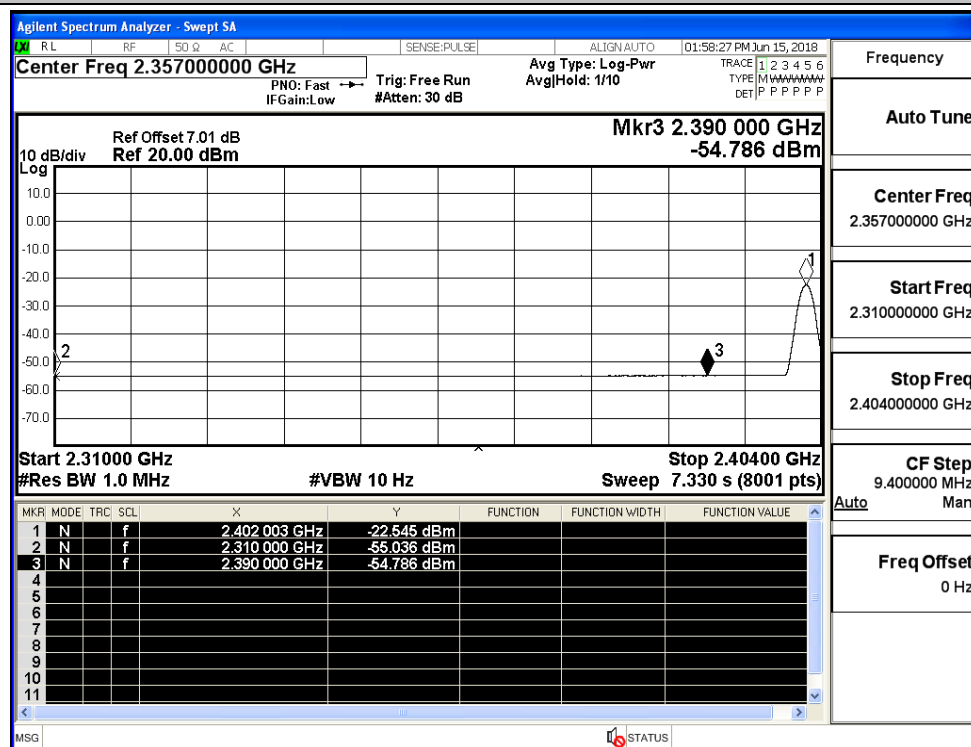
A.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-44.658	4.0	0	54.570	PEAK	74	PASS
		Ant1	2310.0	-55.036	4.0	0	44.192	AV	54	PASS
		Ant1	2390.0	-43.325	4.0	0	55.903	PEAK	74	PASS
		Ant1	2390.0	-54.786	4.0	0	44.442	AV	54	PASS
	2480	Ant1	2483.5	-43.960	4.0	0	55.268	PEAK	74	PASS
		Ant1	2483.5	-54.561	4.0	0	44.667	AV	54	PASS
		Ant1	2500.0	-43.366	4.0	0	55.862	PEAK	74	PASS
		Ant1	2500.0	-54.426	4.0	0	44.802	AV	54	PASS

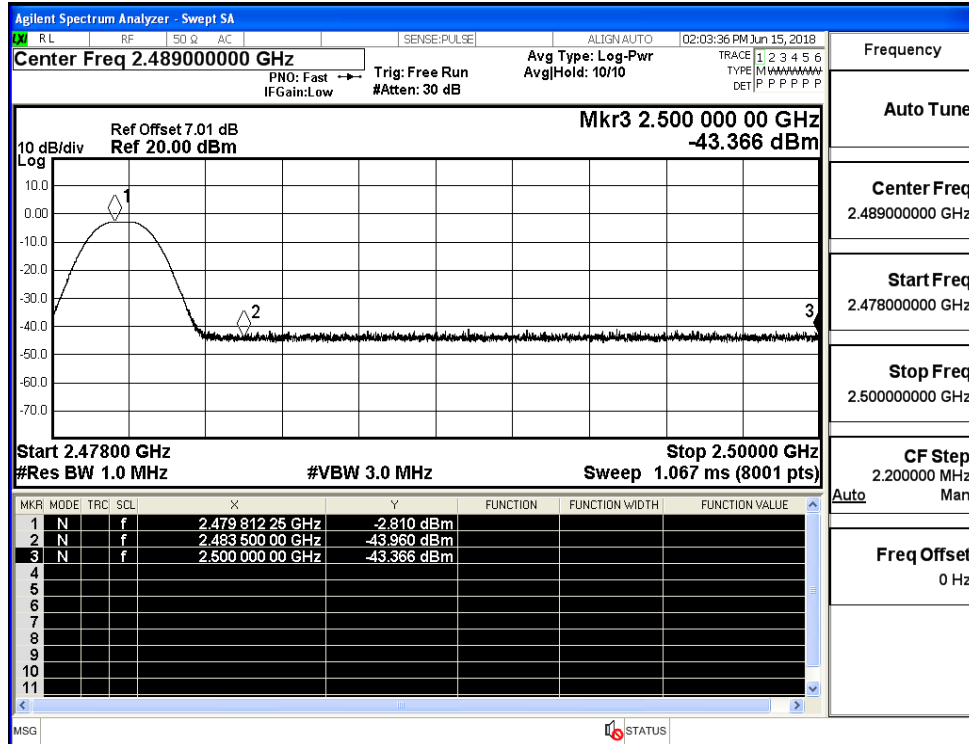
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

