

Appendix A

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

Product Name: BlueLite v2

Trade Mark: BlueLite v2

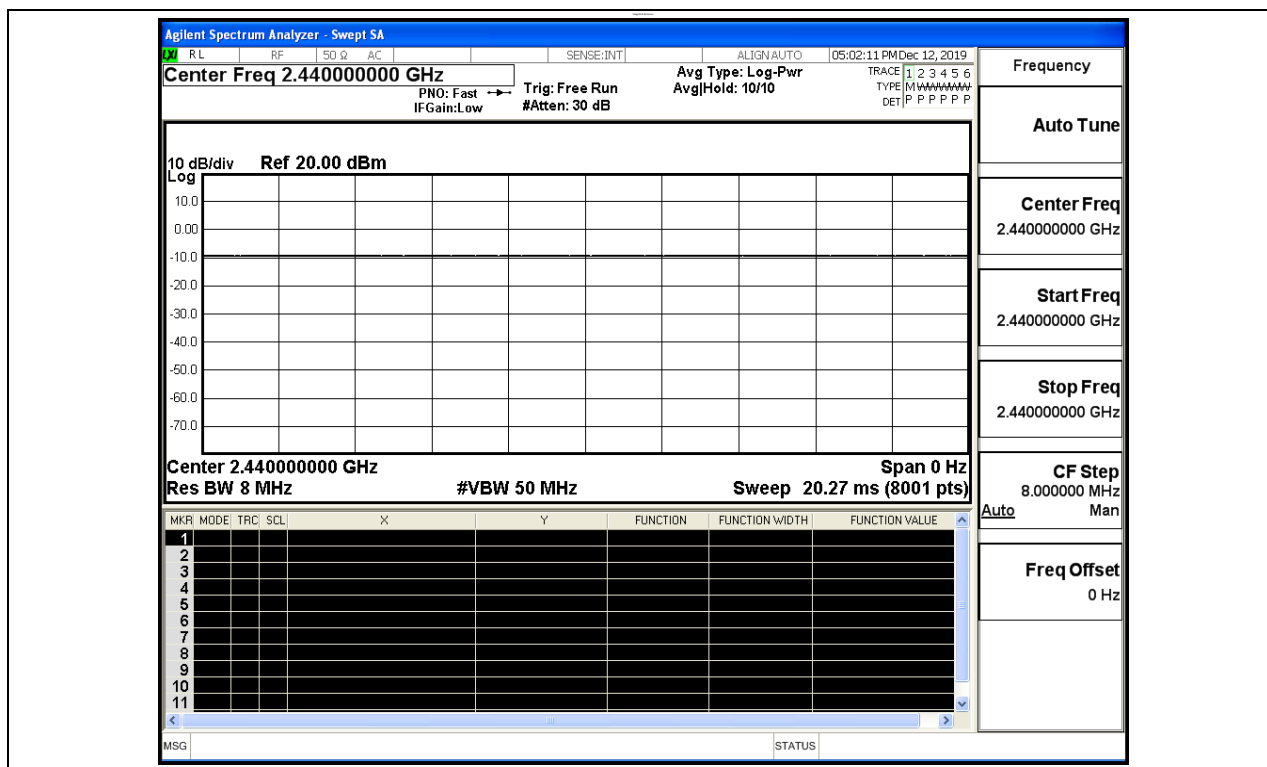
Test Model: BlueLite v2

Environmental Conditions

Temperature:	22.8 ° C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Jk Zhou
Supervised by:	Tom Liu

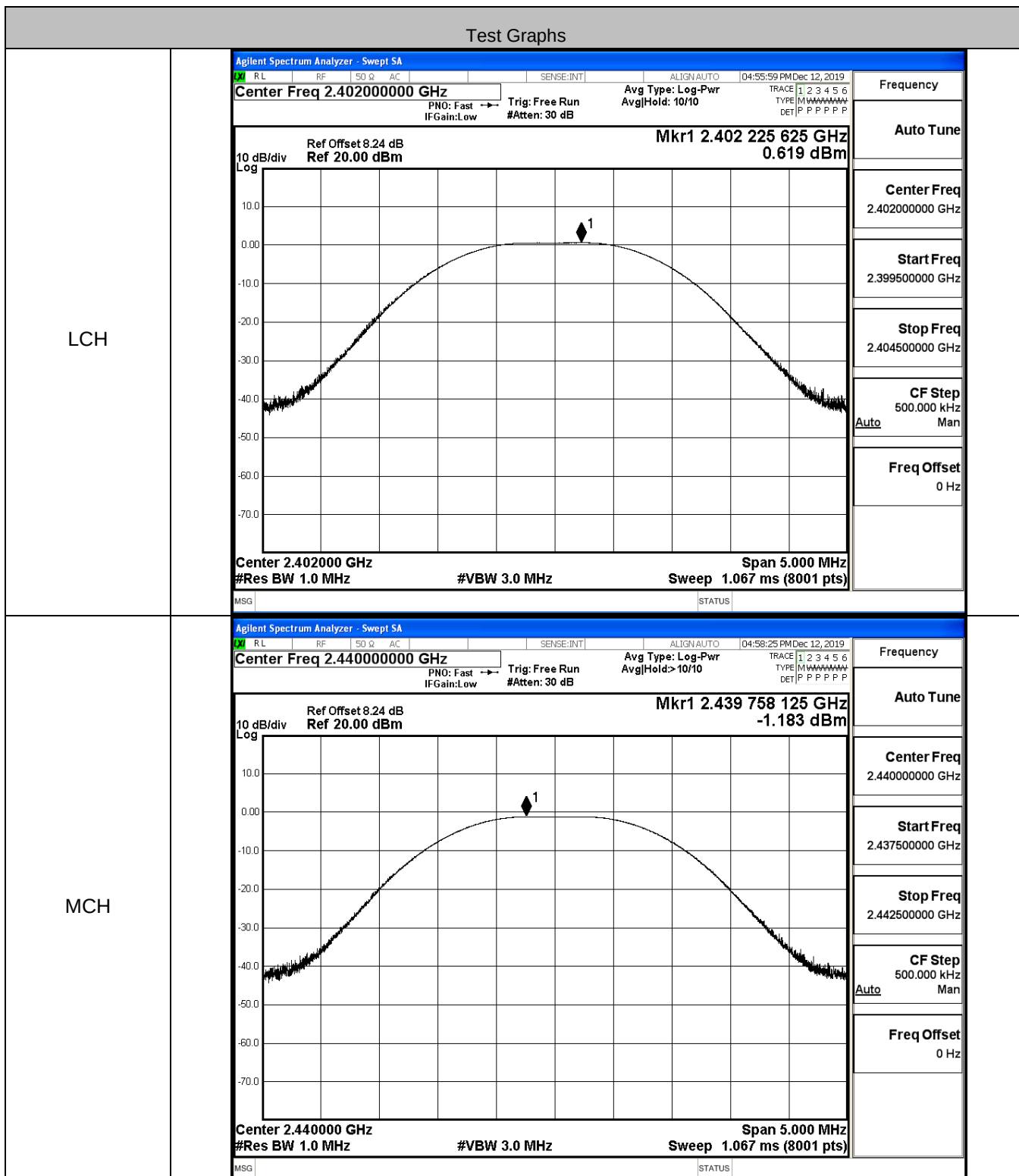
A.1 Duty Cycle

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

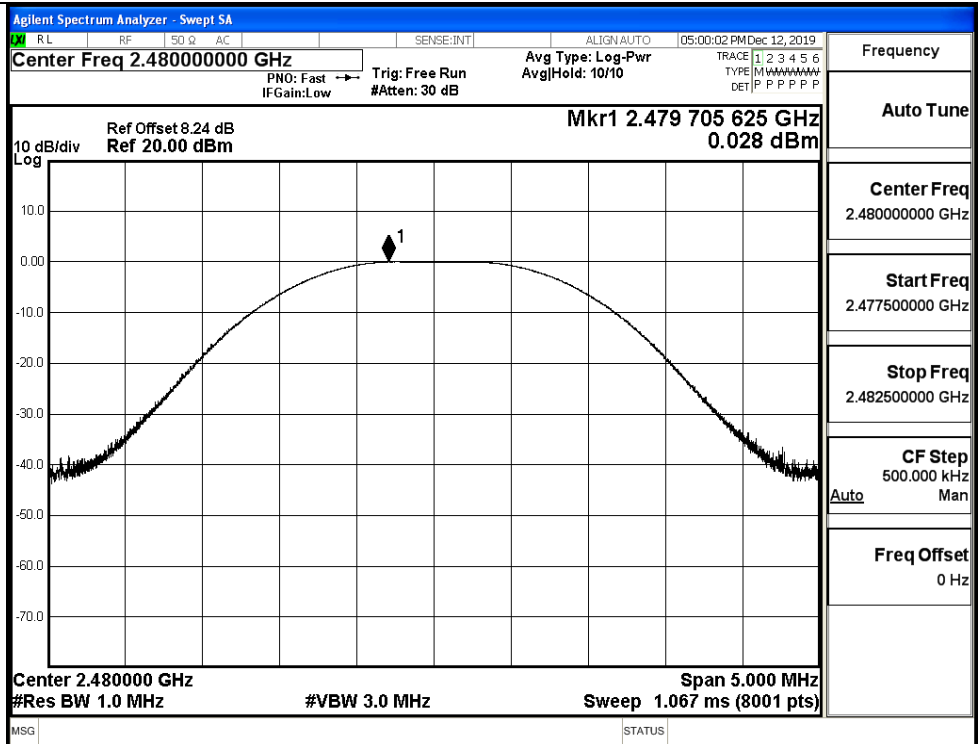


A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.619	30	PASS
BT LE	MCH	-1.183	30	PASS
BT LE	HCH	0.028	30	PASS



HCH

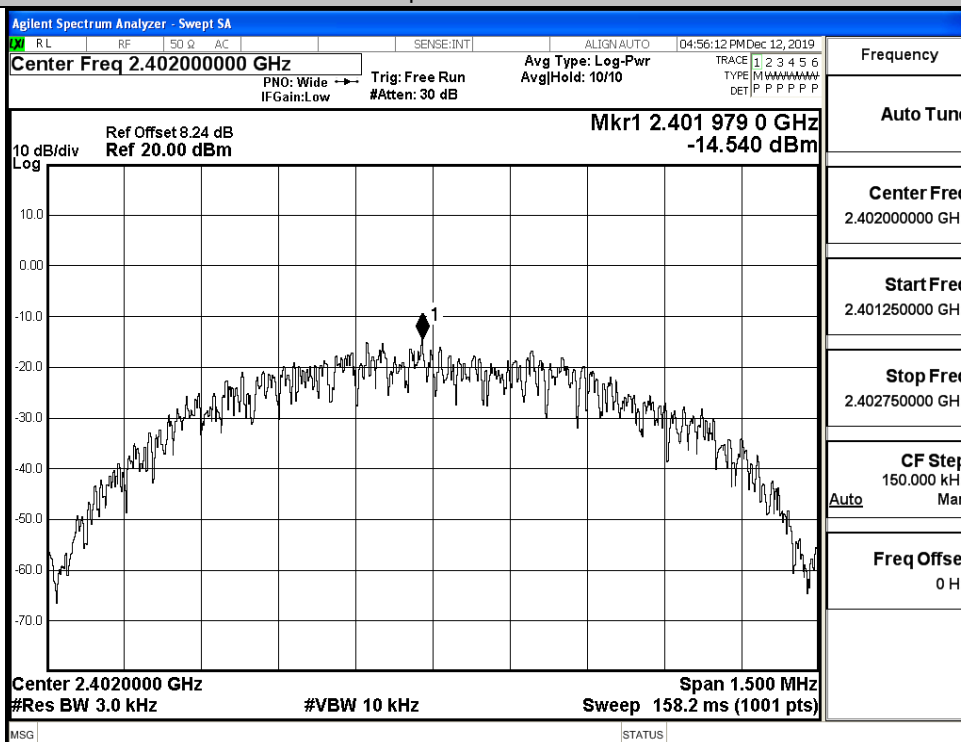


A.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.540	8	PASS
BT LE	MCH	-16.135	8	PASS
BT LE	HCH	-15.005	8	PASS

Test Graphs

LCH

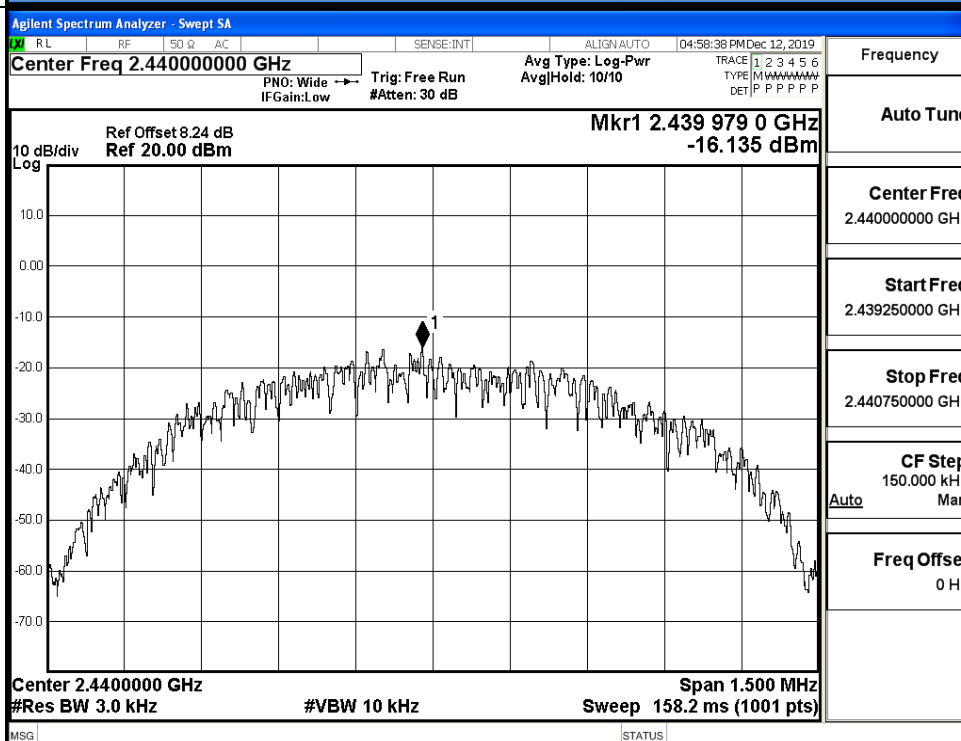


Frequency

Auto Tune

Center Freq
2.402000000 GHzStart Freq
2.401250000 GHzStop Freq
2.402750000 GHzCF Step
150.000 kHz
Auto ManFreq Offset
0 Hz

MCH

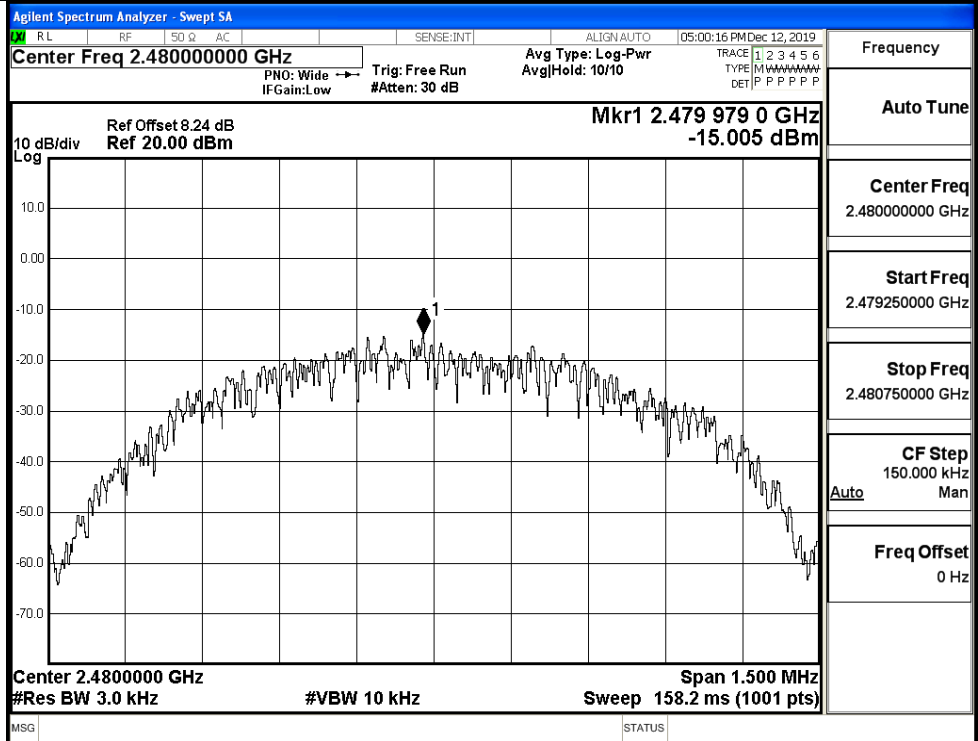


Frequency

Auto Tune

Center Freq
2.440000000 GHzStart Freq
2.439250000 GHzStop Freq
2.440750000 GHzCF Step
150.000 kHz
Auto ManFreq Offset
0 Hz

HCH

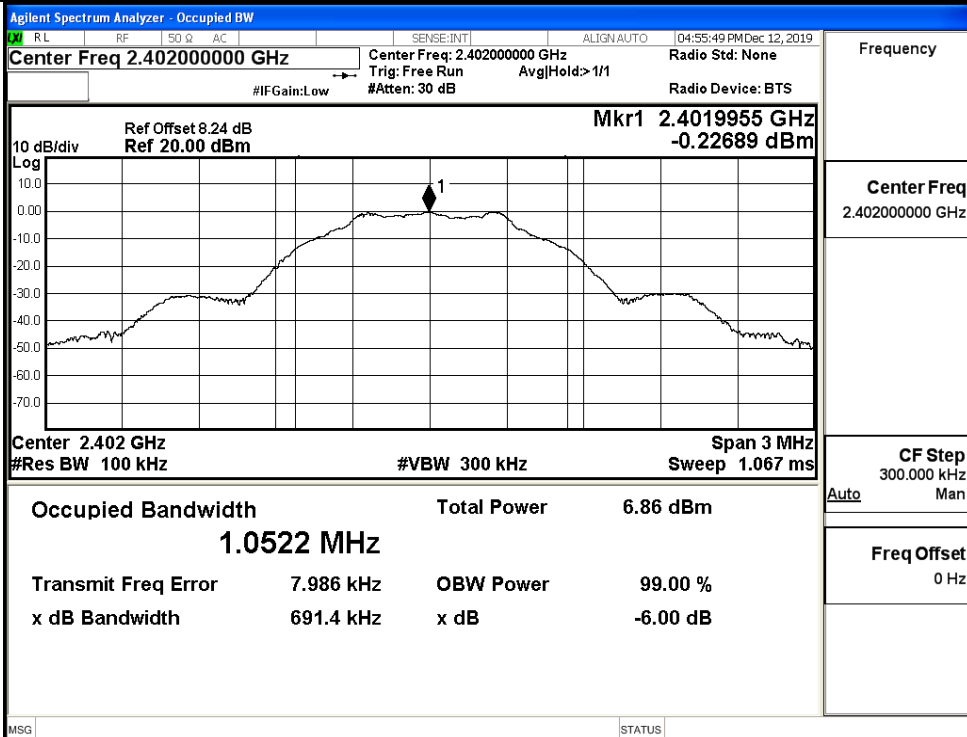


A.4 6dB Bandwidth

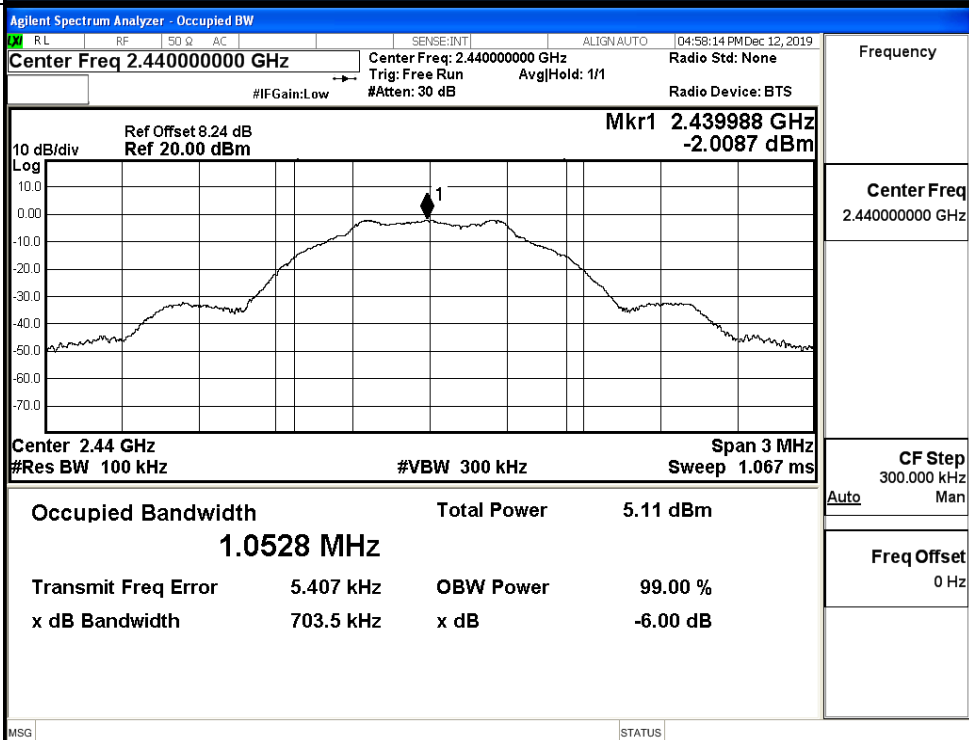
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6914	≥ 0.5	PASS
BT LE	MCH	0.7035	≥ 0.5	PASS
BT LE	HCH	0.6980	≥ 0.5	PASS

Test Graphs

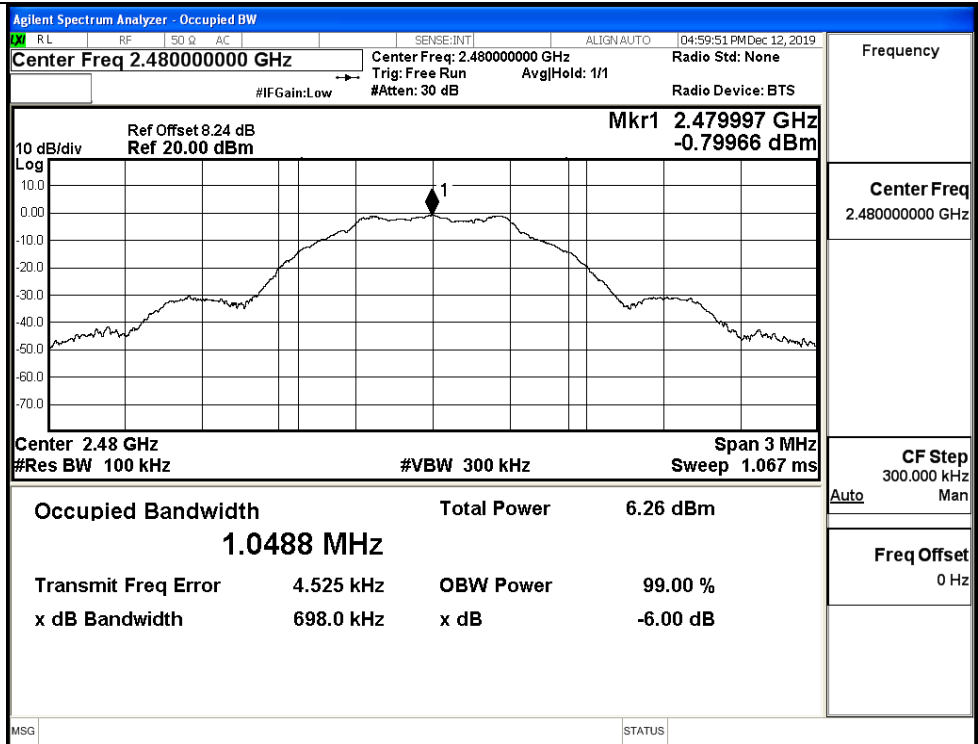
LCH



MCH



HCH

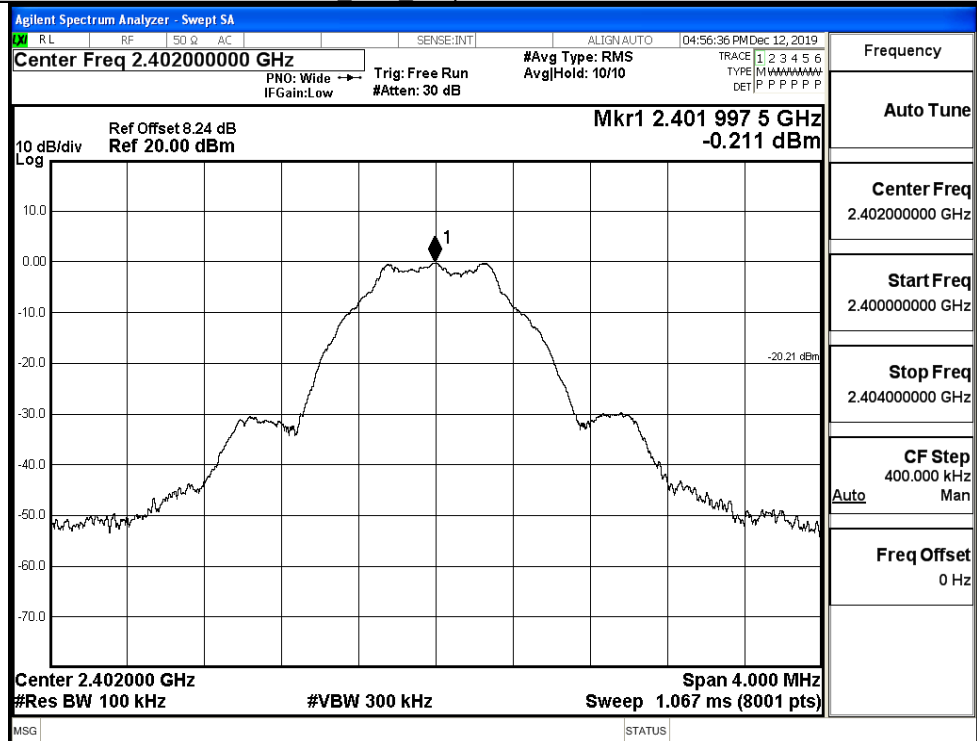


A.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.211	-36.046	-20.211	PASS
BT LE	MCH	-1.981	-35.883	-21.981	PASS
BT LE	HCH	-0.796	-36.185	-20.796	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

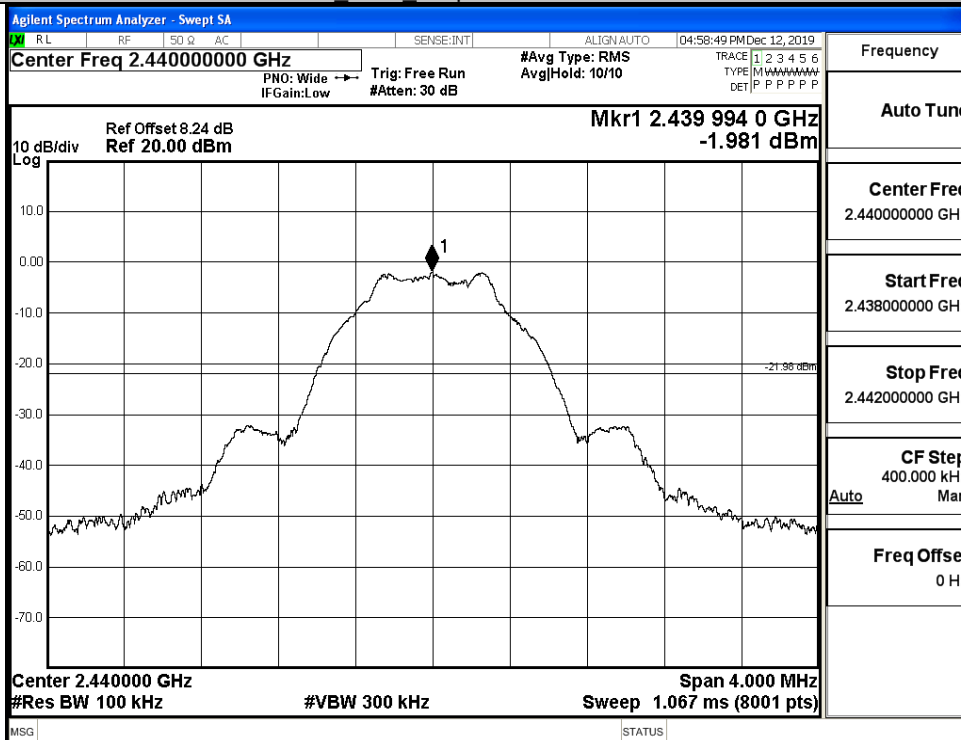


Puw/BT LE/LCH

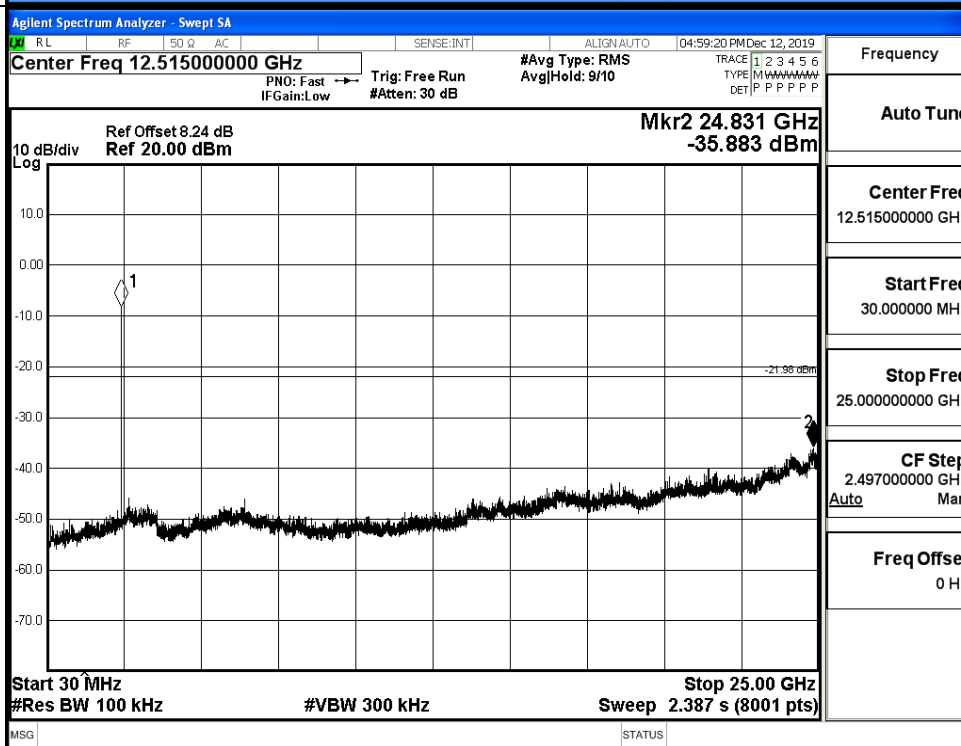


BT LE MCH Graphs

Pref/BT LE/MCH

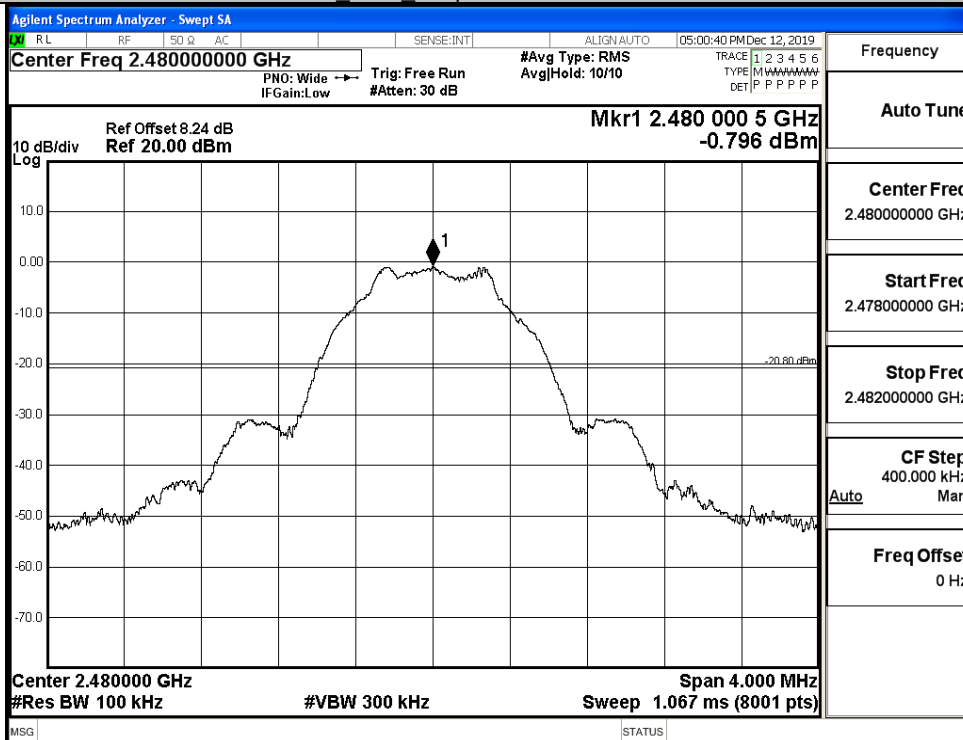


Puw/BT LE/MCH

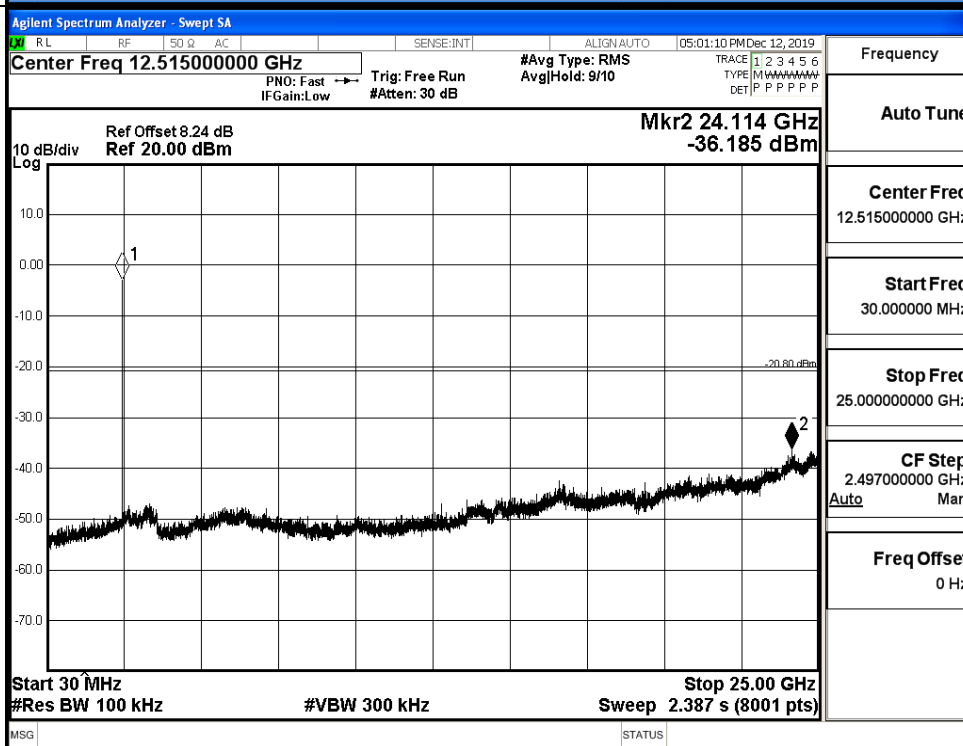


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

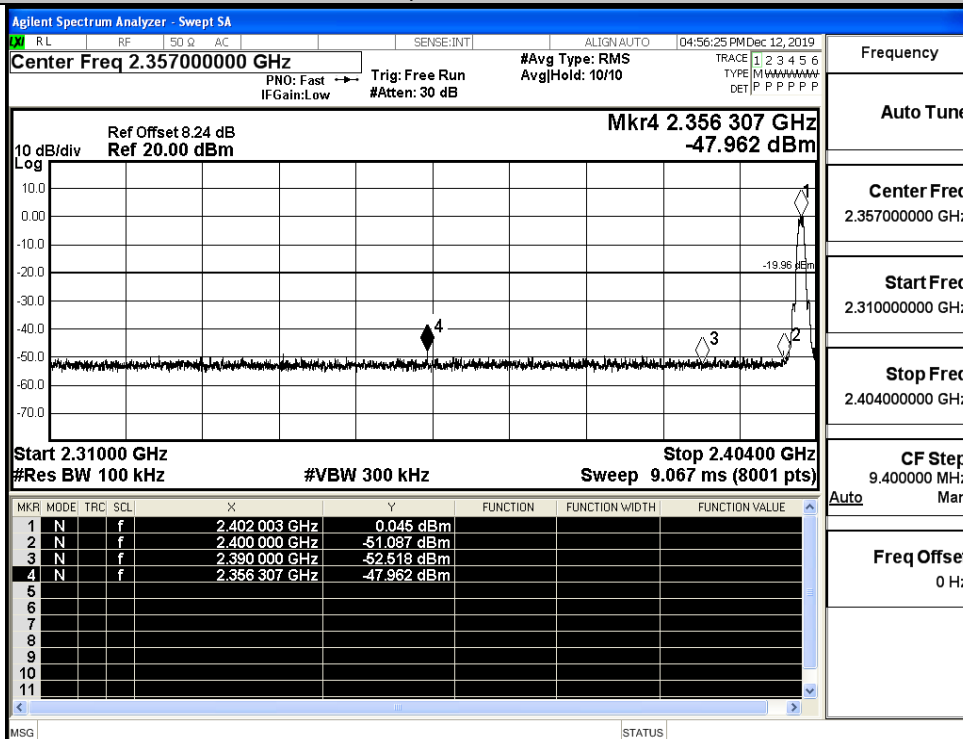


A.6 Band-edge for RF Conducted Emissions

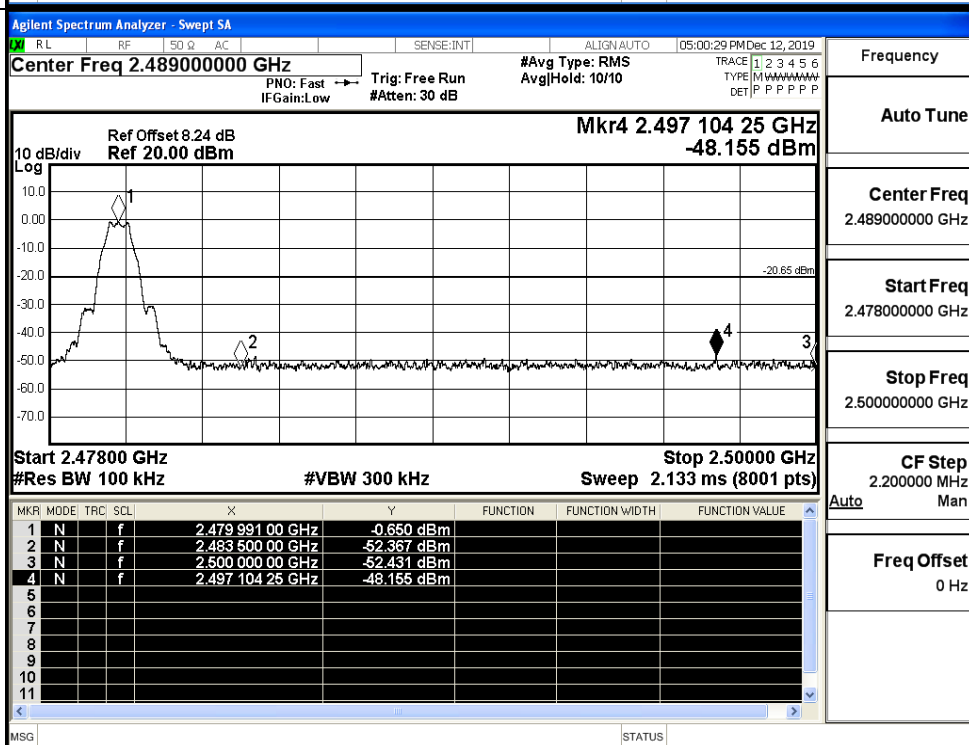
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.045	-47.962	-19.96	PASS
BT LE	HCH	-0.650	-48.155	-20.65	PASS

Test Graphs

LCH



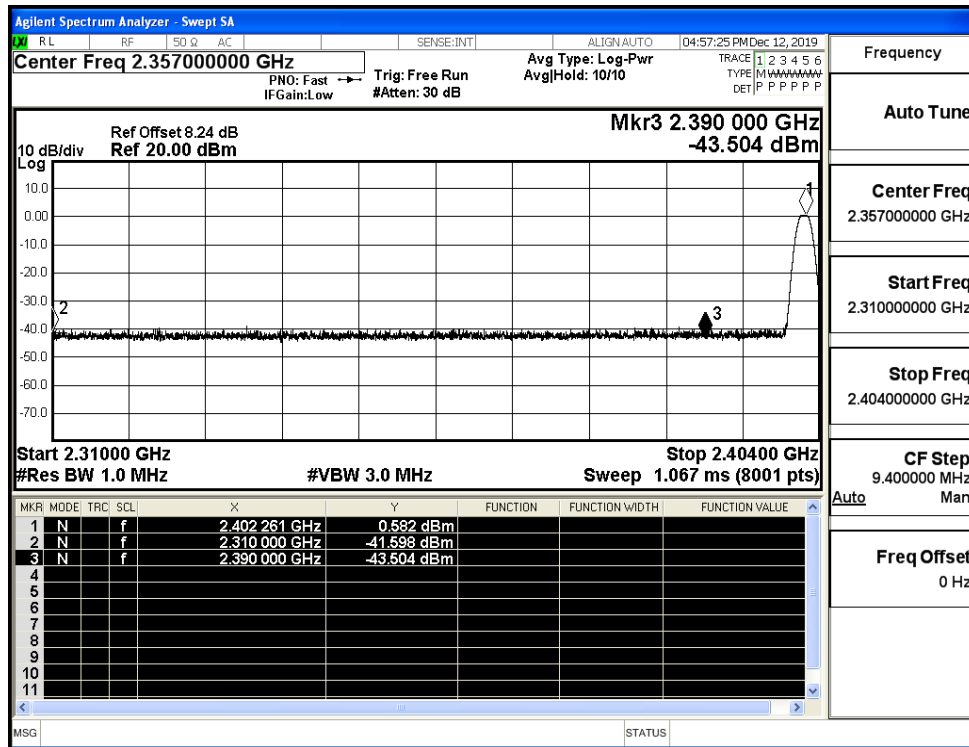
HCH



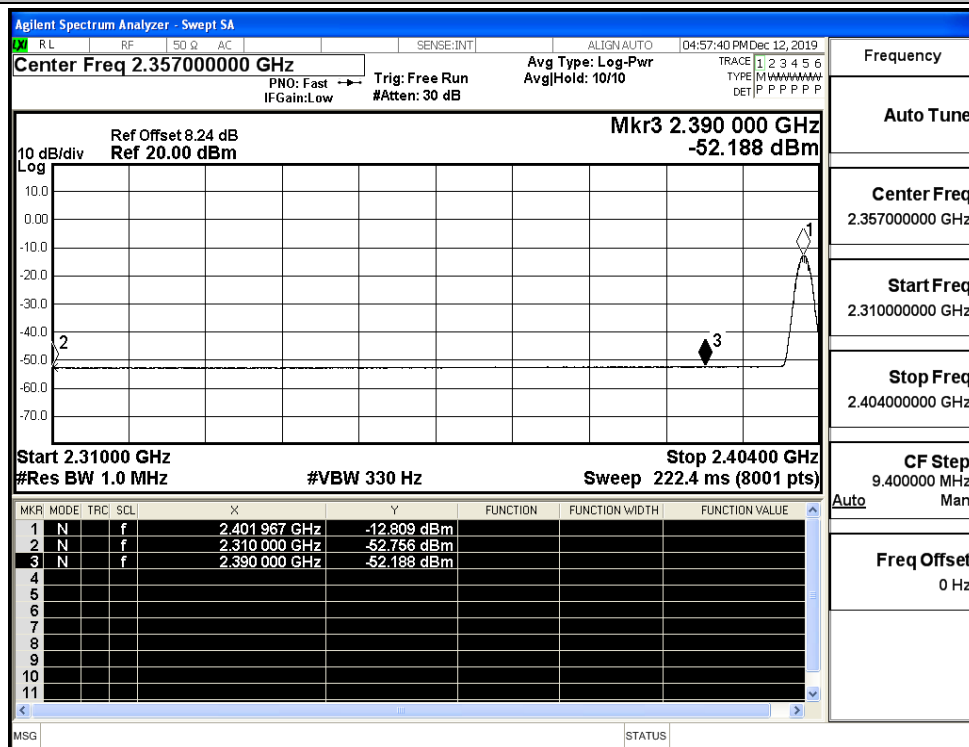
A.7 Restrict-band band-edge measurements

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	-41.60	2.0	0	53.66	PEAK	74	PASS
		Ant1	2310.0	-52.76	2.0	0	42.50	AV	54	PASS
		Ant1	2390.0	-43.50	2.0	0	51.75	PEAK	74	PASS
		Ant1	2390.0	-52.19	2.0	0	43.07	AV	54	PASS
	2480	Ant1	2483.5	-42.14	2.0	0	53.12	PEAK	74	PASS
		Ant1	2483.5	-51.93	2.0	0	43.33	AV	54	PASS
		Ant1	2500.0	-41.95	2.0	0	53.31	PEAK	74	PASS
		Ant1	2500.0	-51.78	2.0	0	43.48	AV	54	PASS

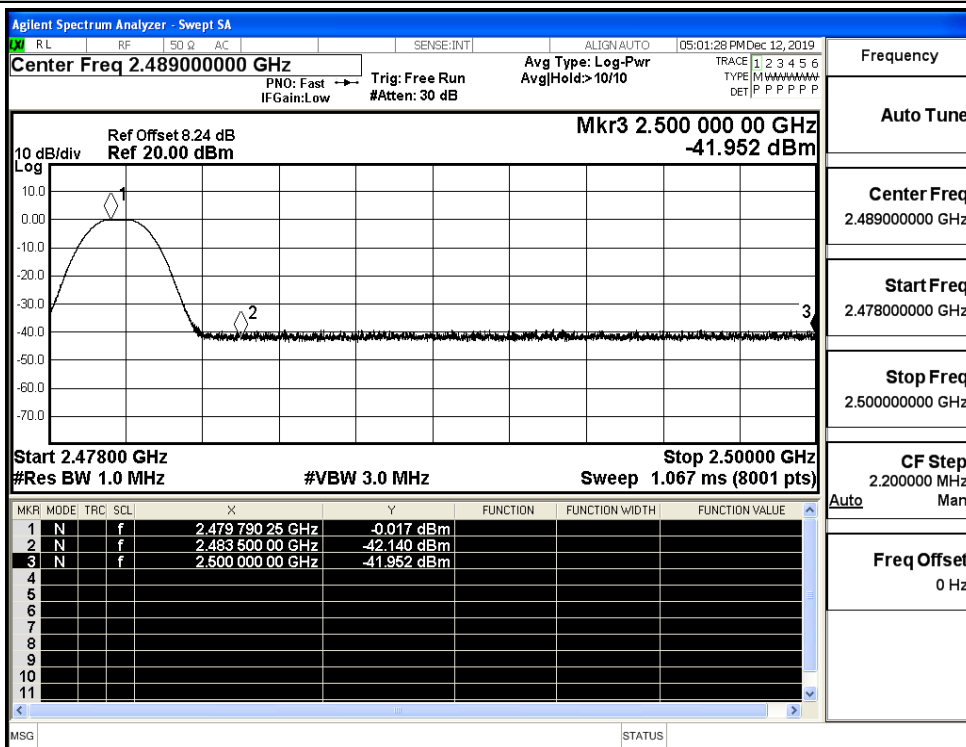
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

