

Appendix B

RF Test Data for BT 4.2(BT LE) (Conducted Measurement)

Product Name: HEADSET

Trade Mark: microlab

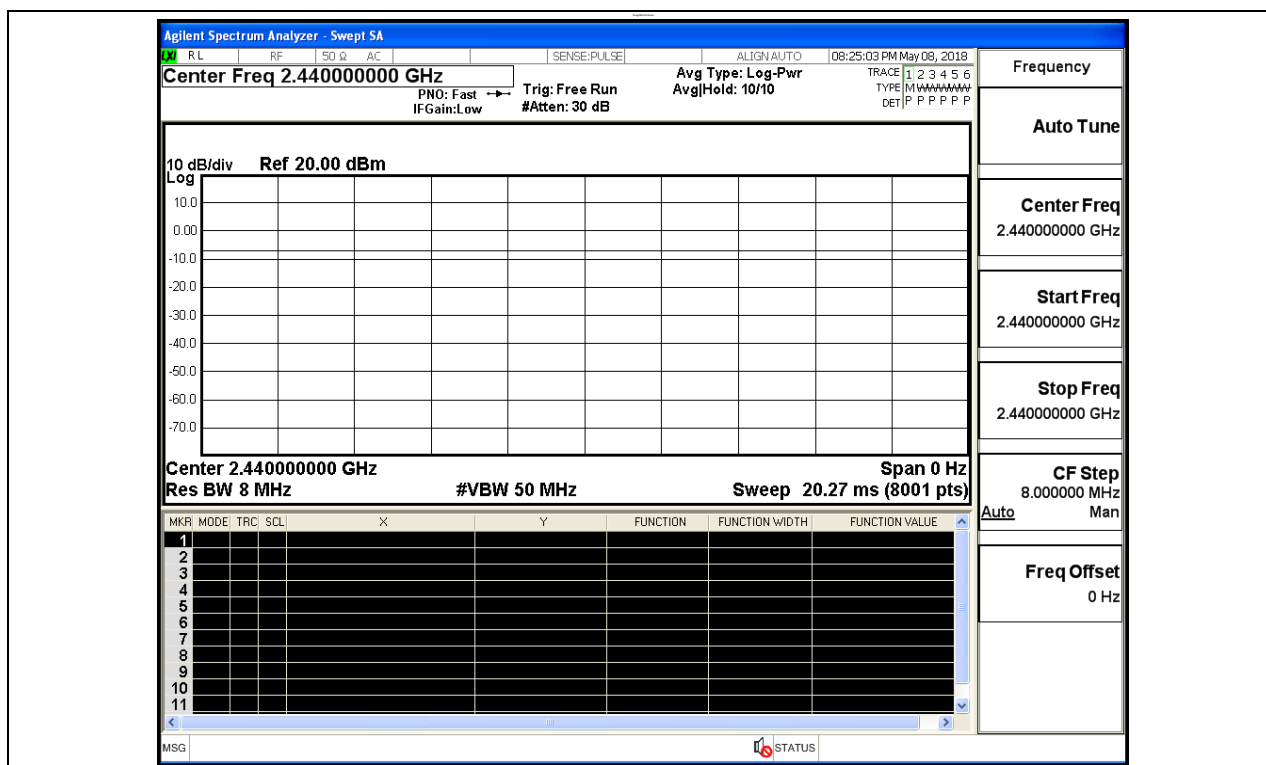
Test Model: Necklace 200

Environmental Conditions

Temperature:	24.6 ° C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.xu
Supervised by:	Jayden.Zhuo

B.1 Duty Cycle

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

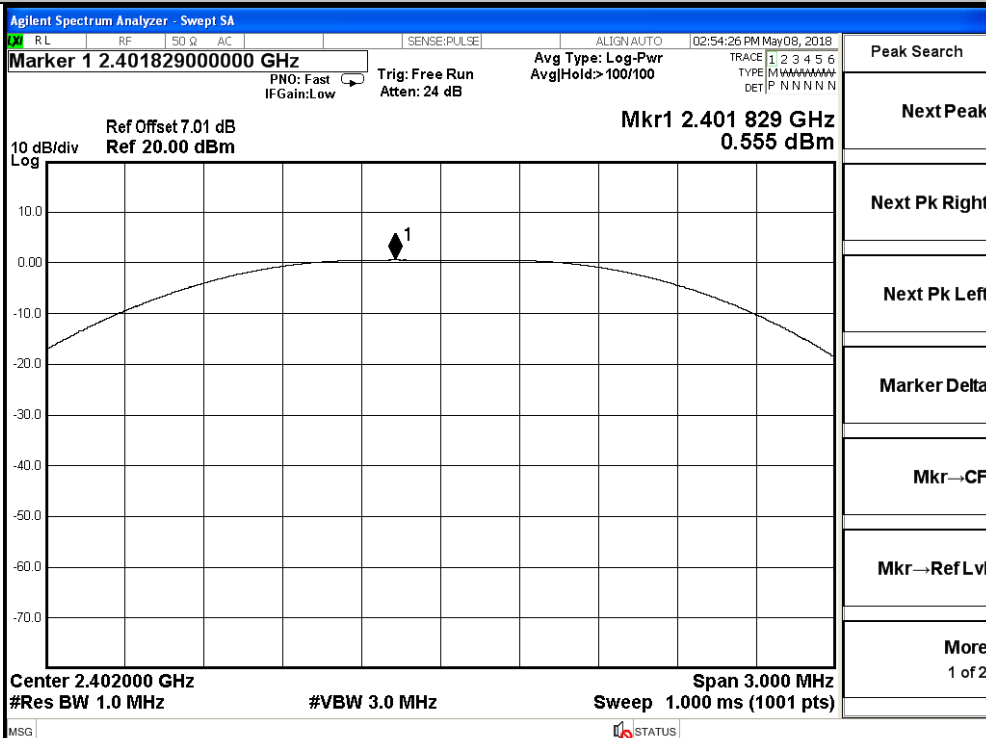


B.2 Maximum Conducted Peak Output Power

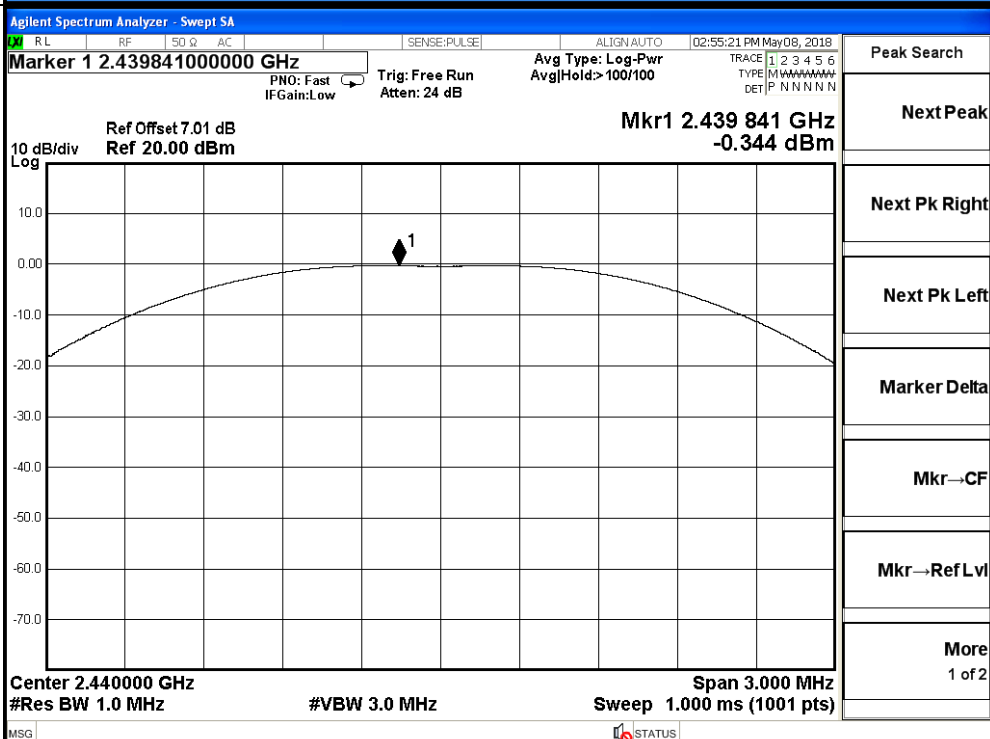
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.555	30	PASS
BT LE	MCH	-0.344	30	PASS
BT LE	HCH	-0.589	30	PASS

Test Graphs

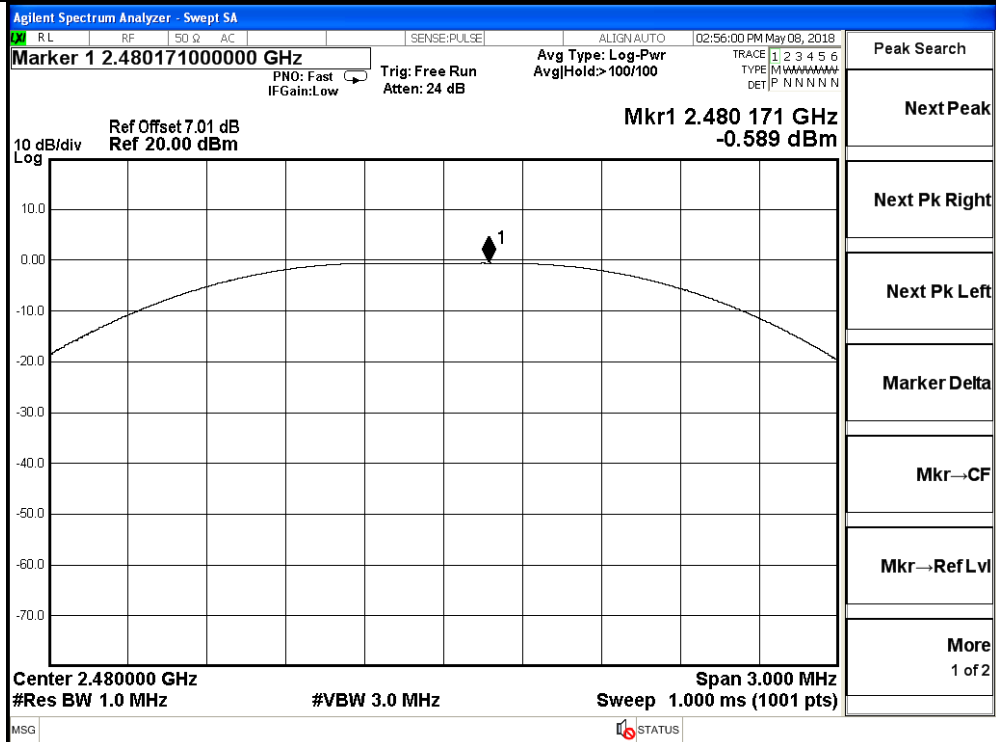
LCH



MCH



HCH

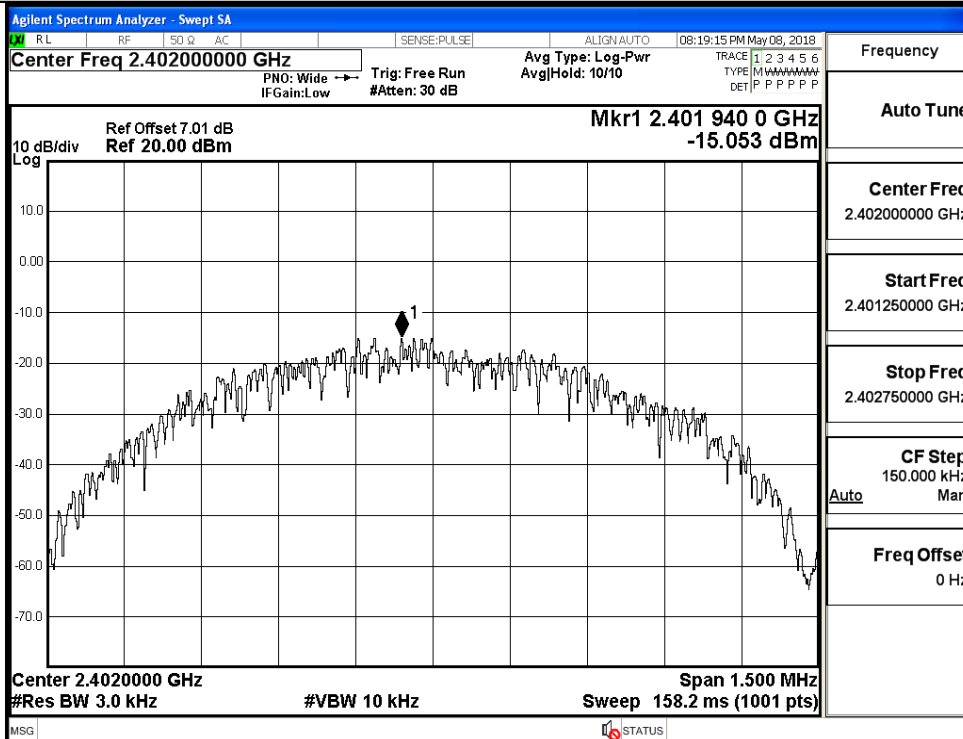


B.3 Maximum Power Spectral Density

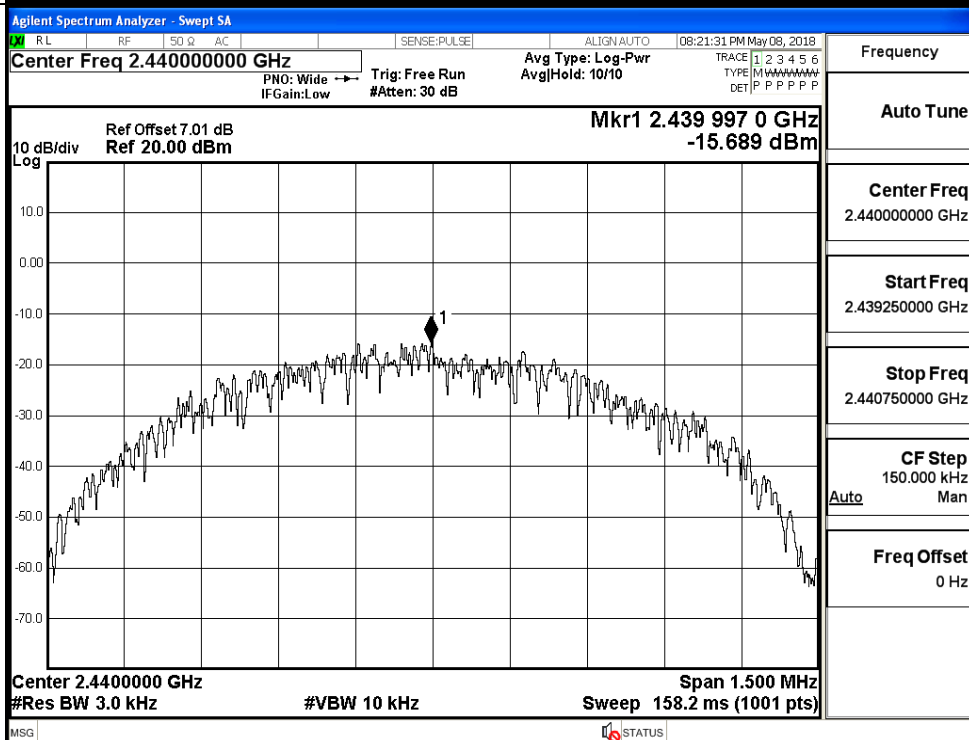
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-15.053	8	PASS
BT LE	MCH	-15.689	8	PASS
BT LE	HCH	-15.865	8	PASS

Test Graphs

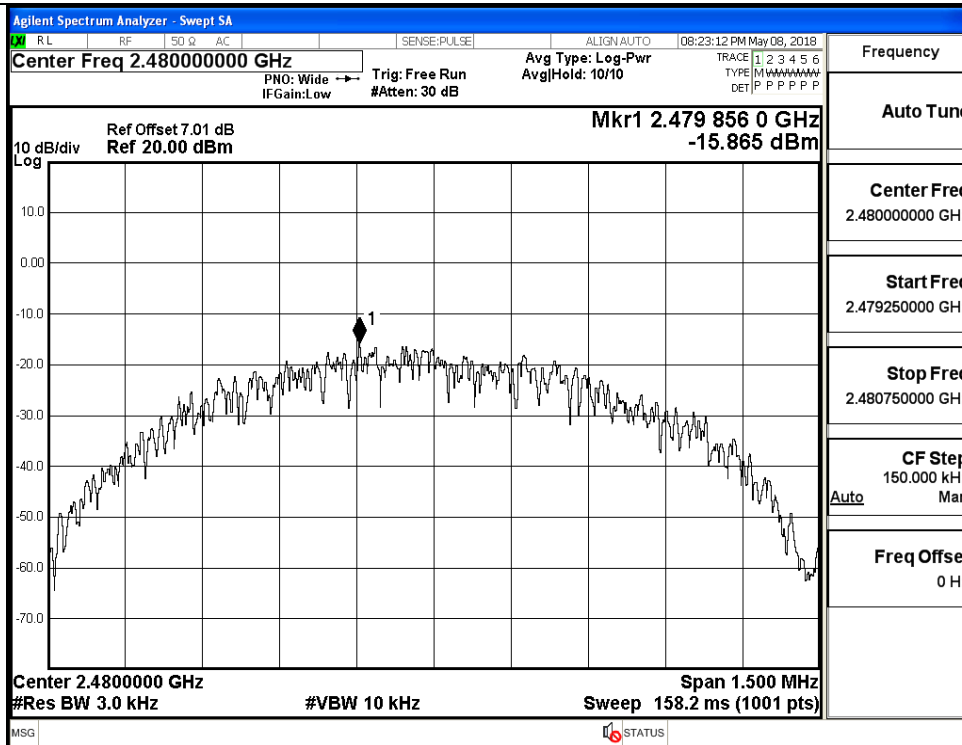
LCH



MCH



HCH

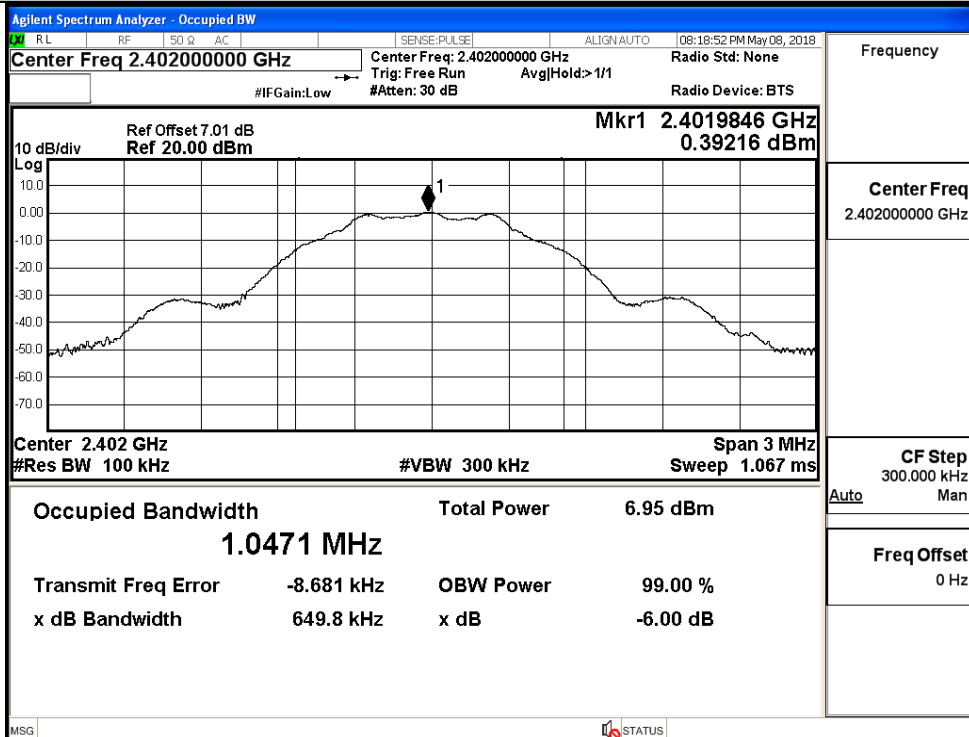


B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6498	≥ 0.5	PASS
BT LE	MCH	0.6531	≥ 0.5	PASS
BT LE	HCH	0.6642	≥ 0.5	PASS

Test Graphs

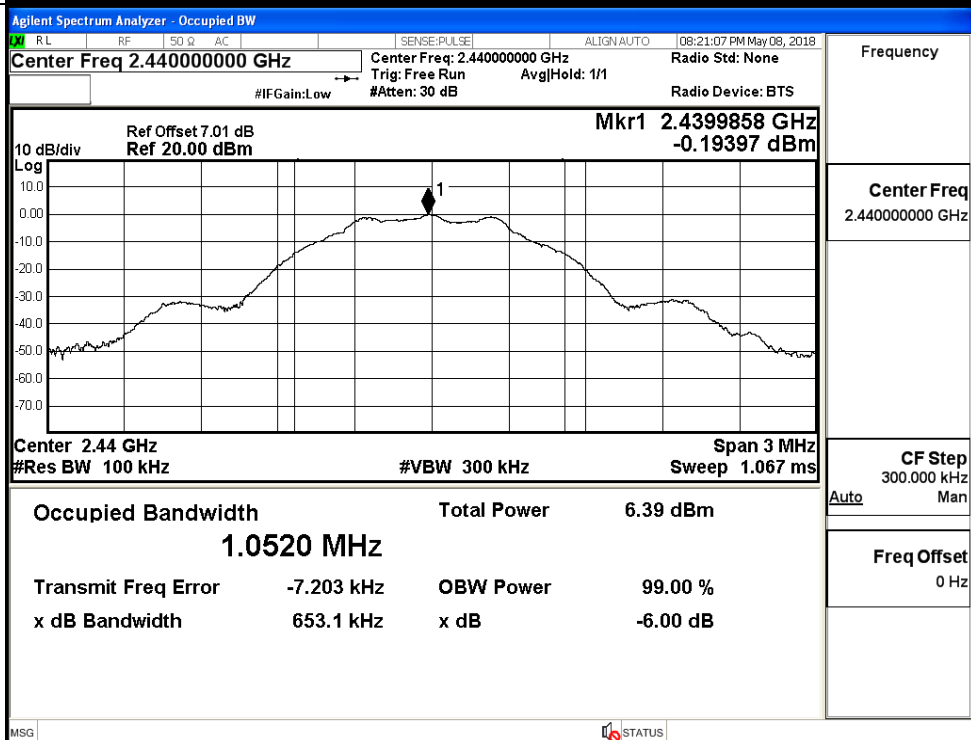
LCH



Frequency

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

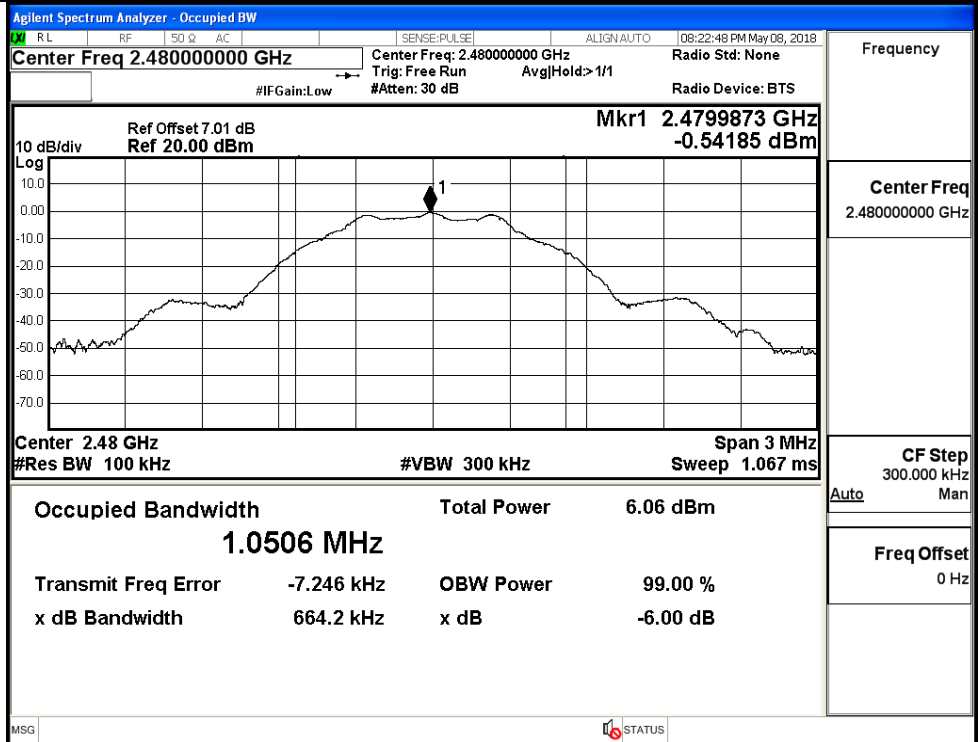
MCH



Frequency

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

HCH

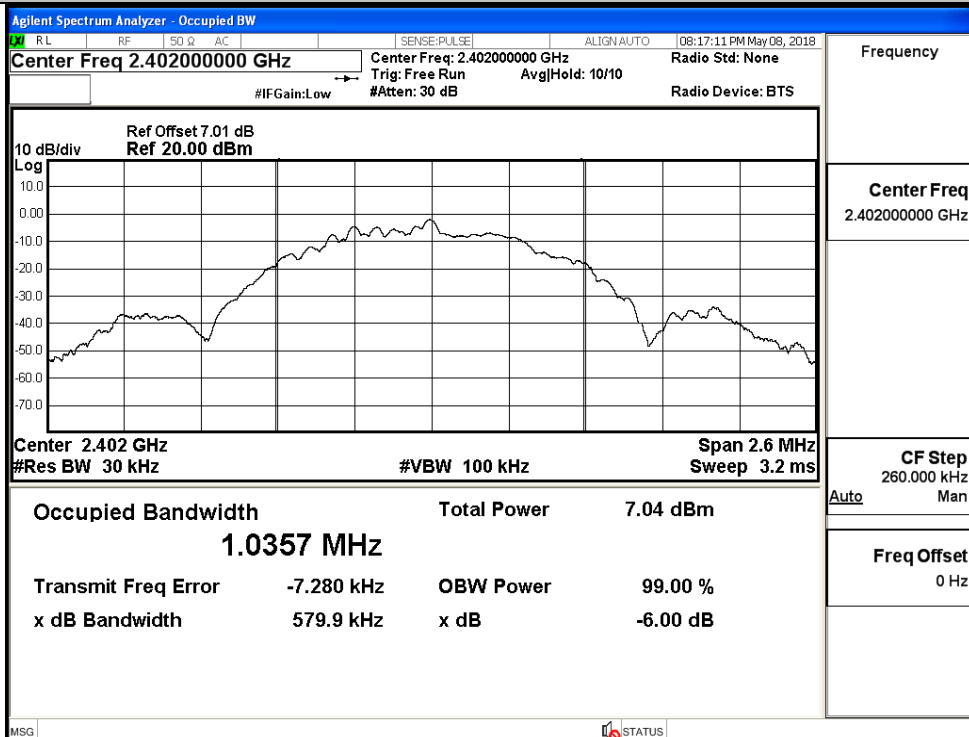


B.5 Occupied Bandwidth

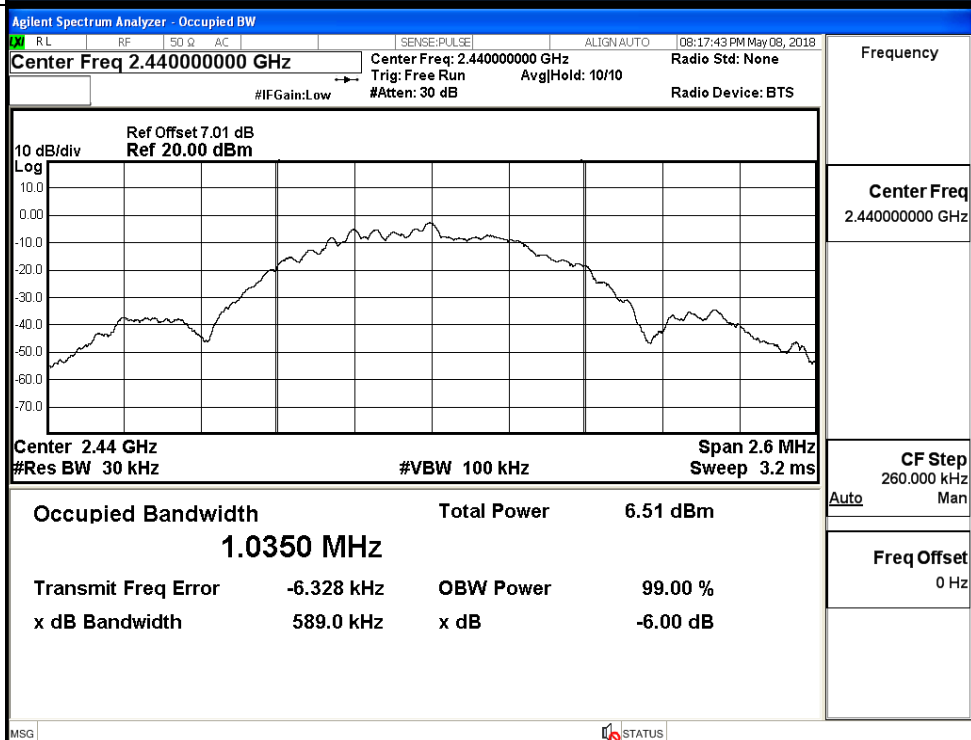
Mode	Channel	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.0357	≥ 0.5	PASS
BT LE	MCH	1.0350	≥ 0.5	PASS
BT LE	HCH	1.0333	≥ 0.5	PASS

Test Graphs

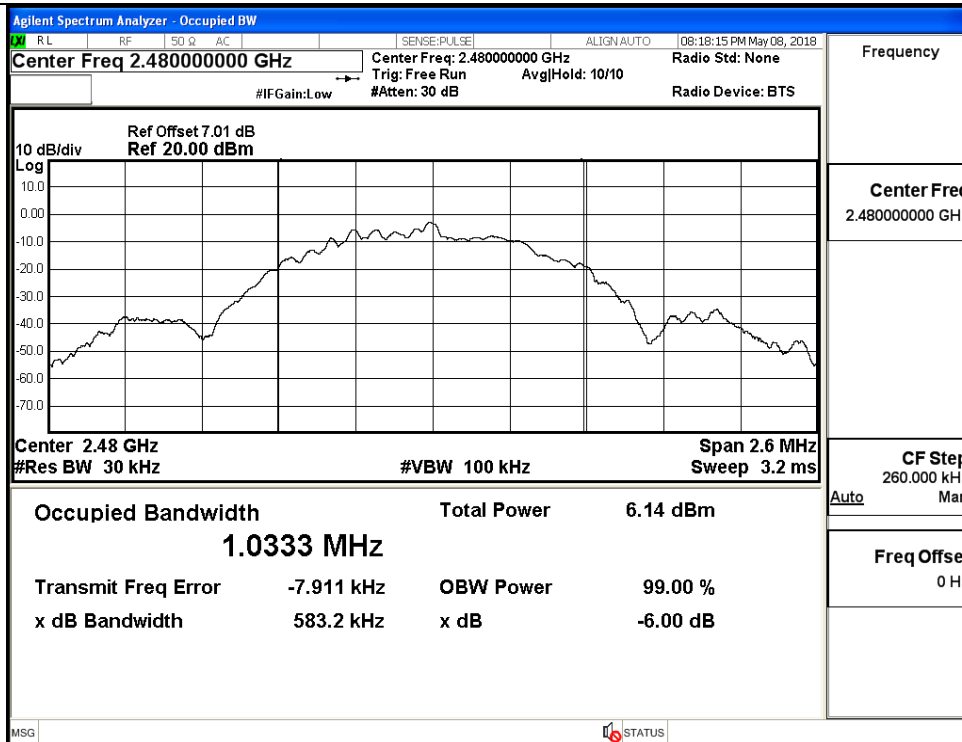
LCH



MCH



HCH

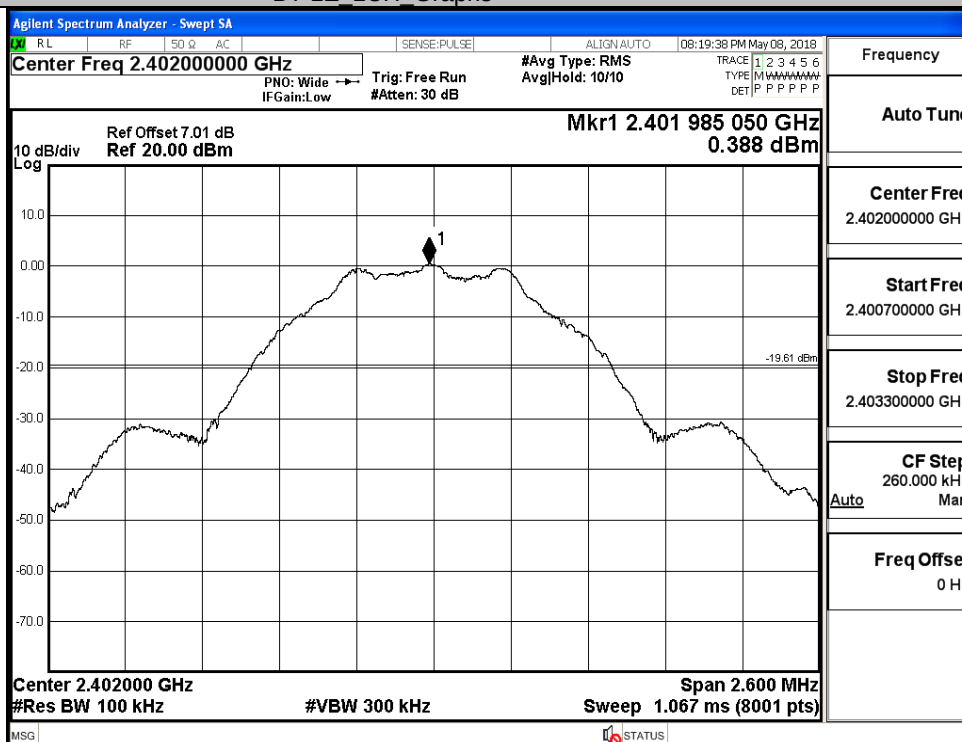


B.6 RF Conducted Spurious Emissions

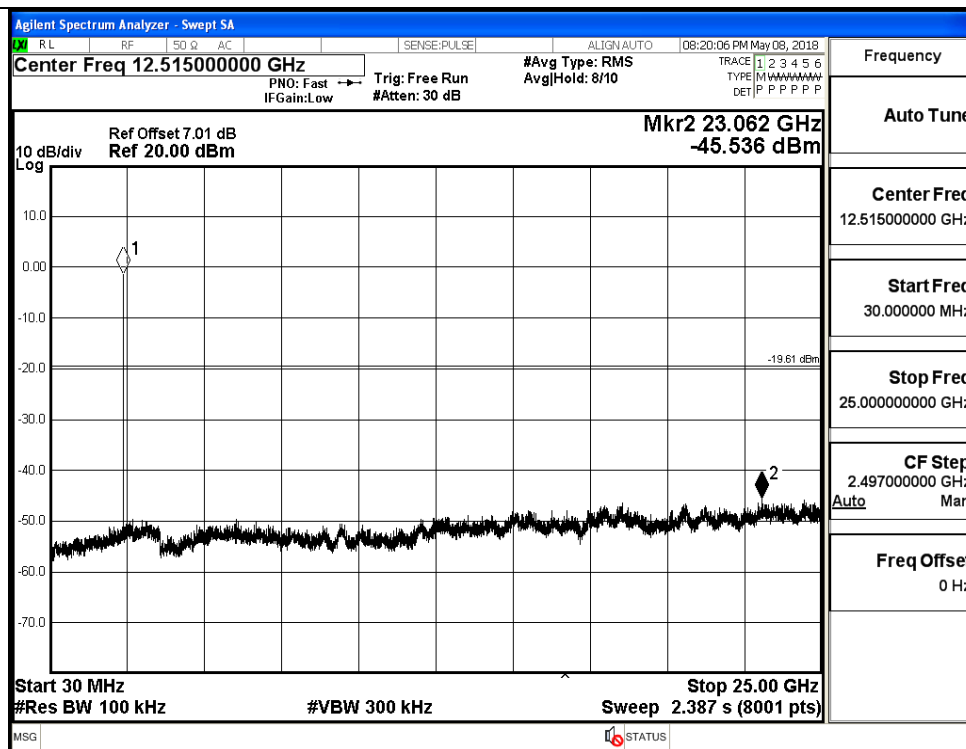
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.388	-45.536	-19.612	PASS
BT LE	MCH	-0.212	-45.136	-20.212	PASS
BT LE	HCH	-0.533	-45.633	-20.533	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

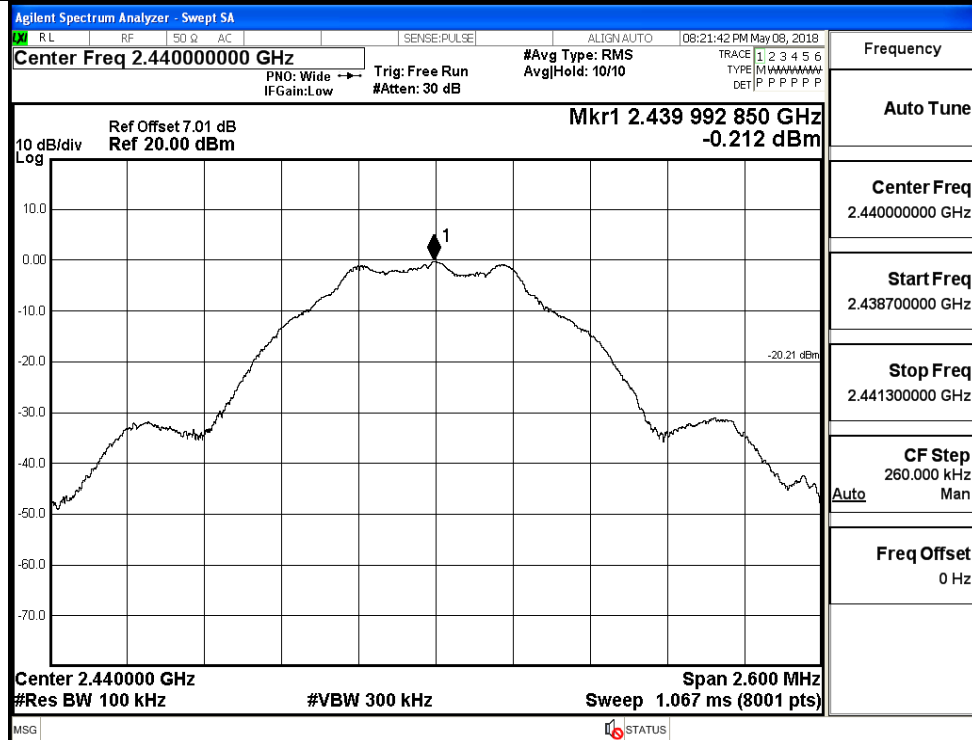


Puw/BT LE/LCH

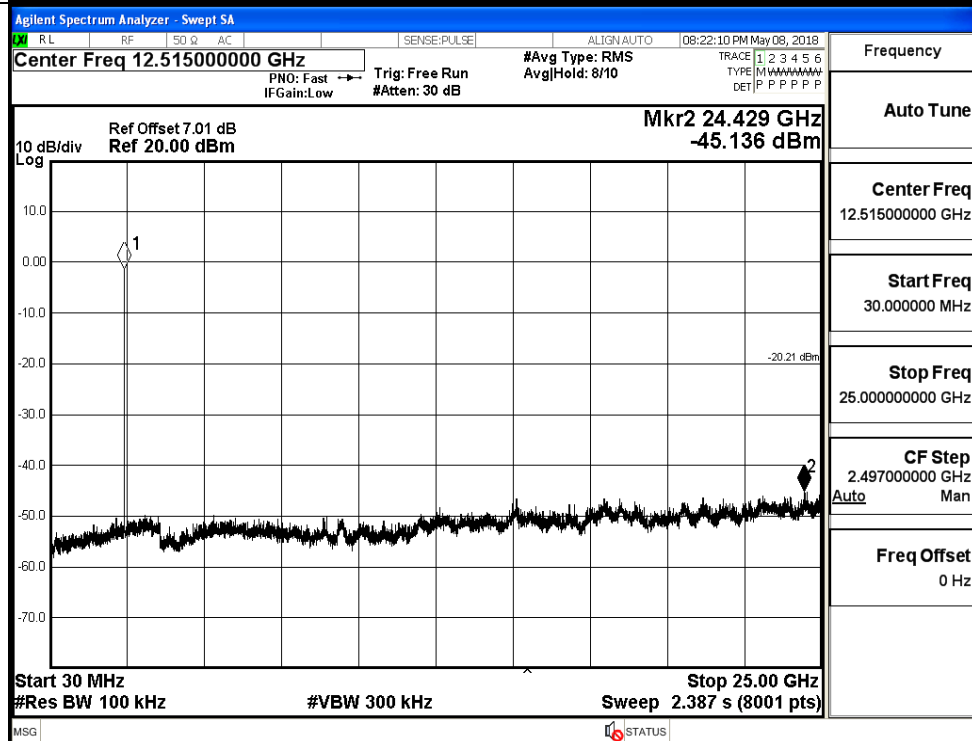


BT LE MCH Graphs

Pref/BT LE/MCH

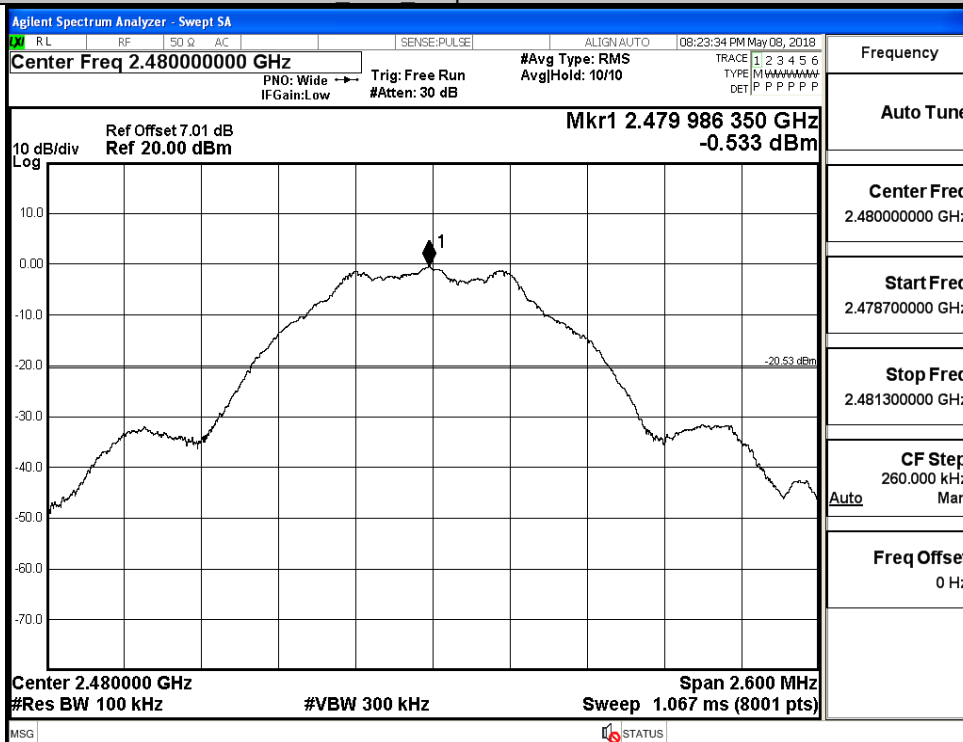


Puw/BT LE/MCH

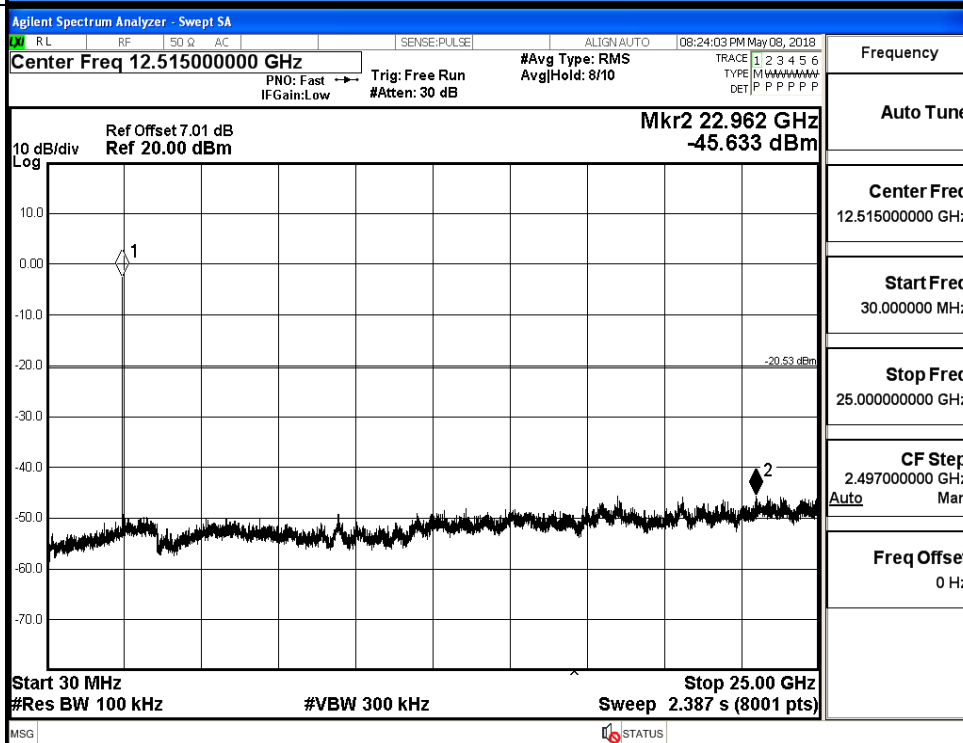


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

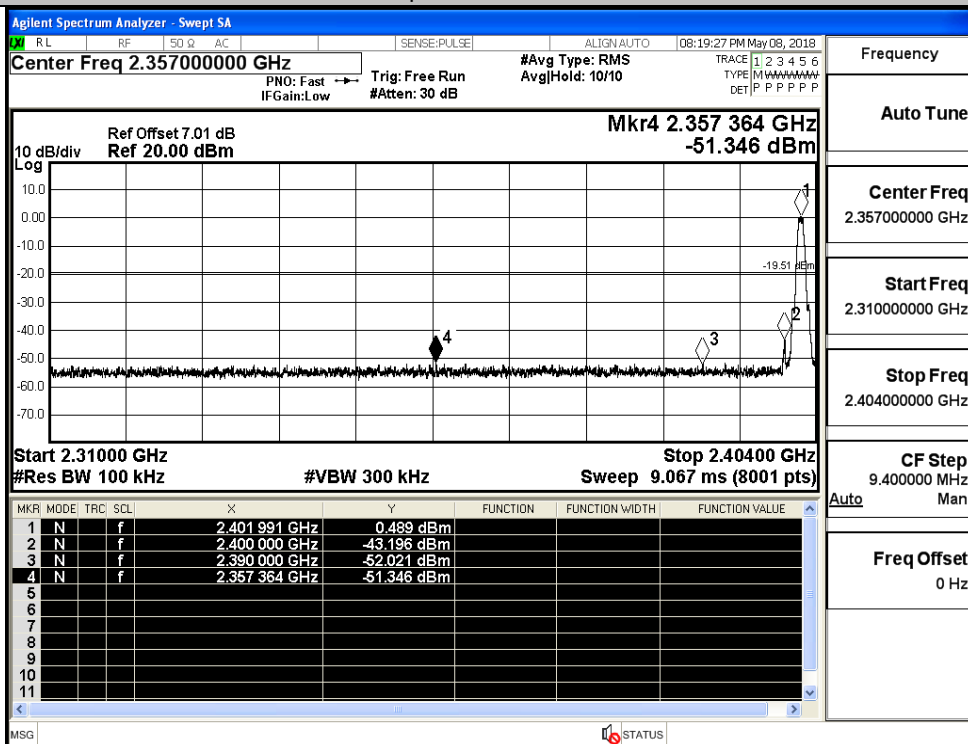


B.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.489	-51.346	-19.51	PASS
BT LE	HCH	-0.315	-42.982	-20.32	PASS

Test Graphs

LCH

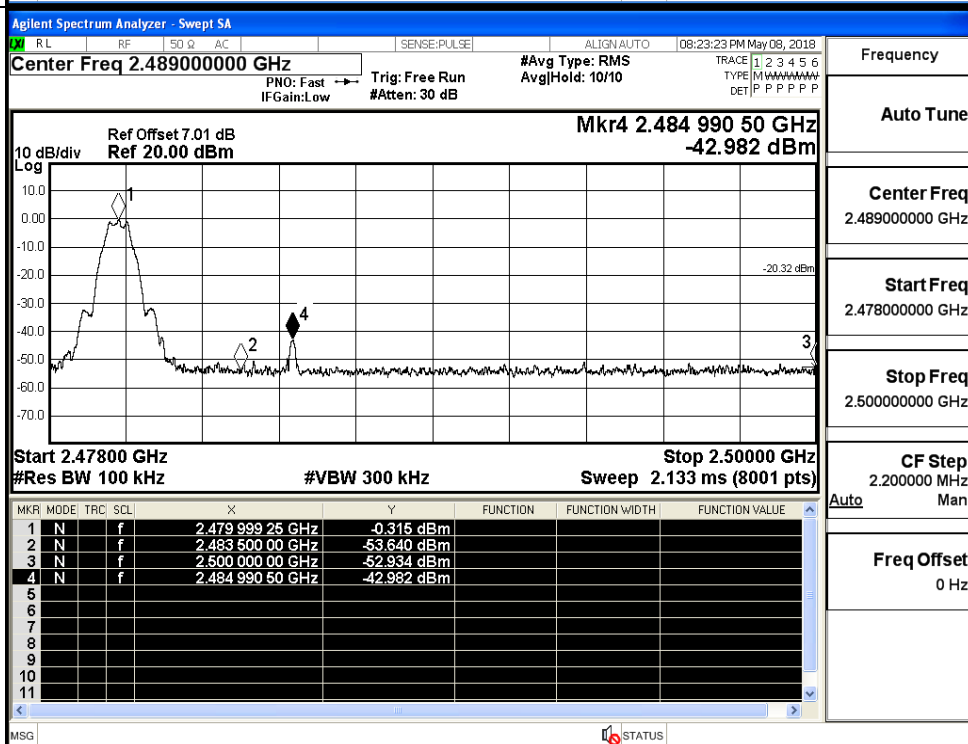


Frequency

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

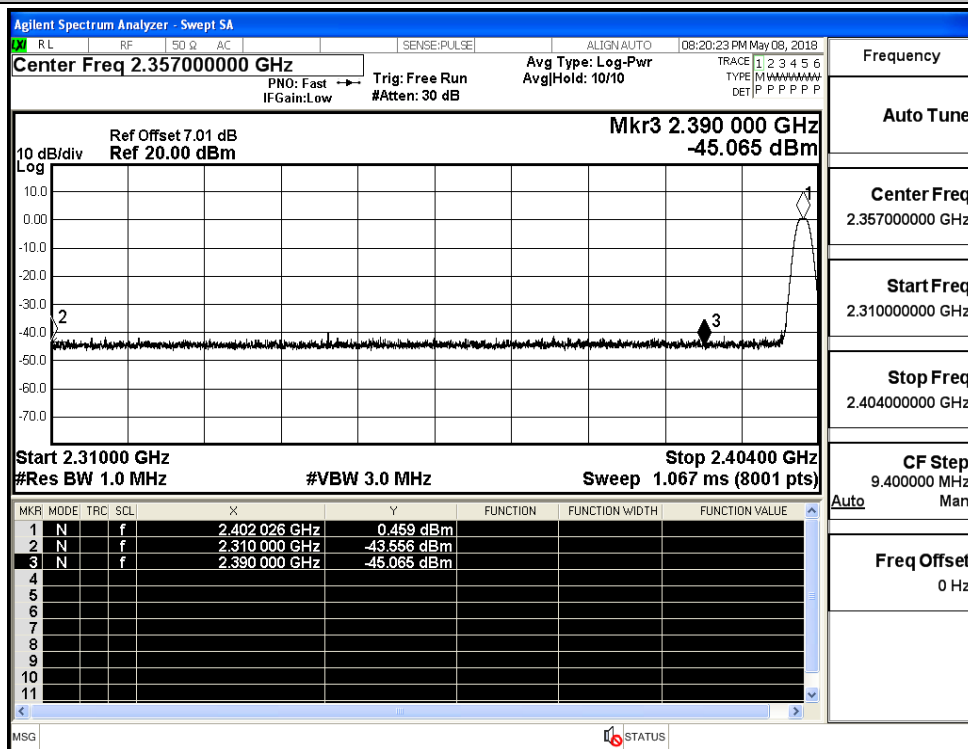
Auto Tune

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

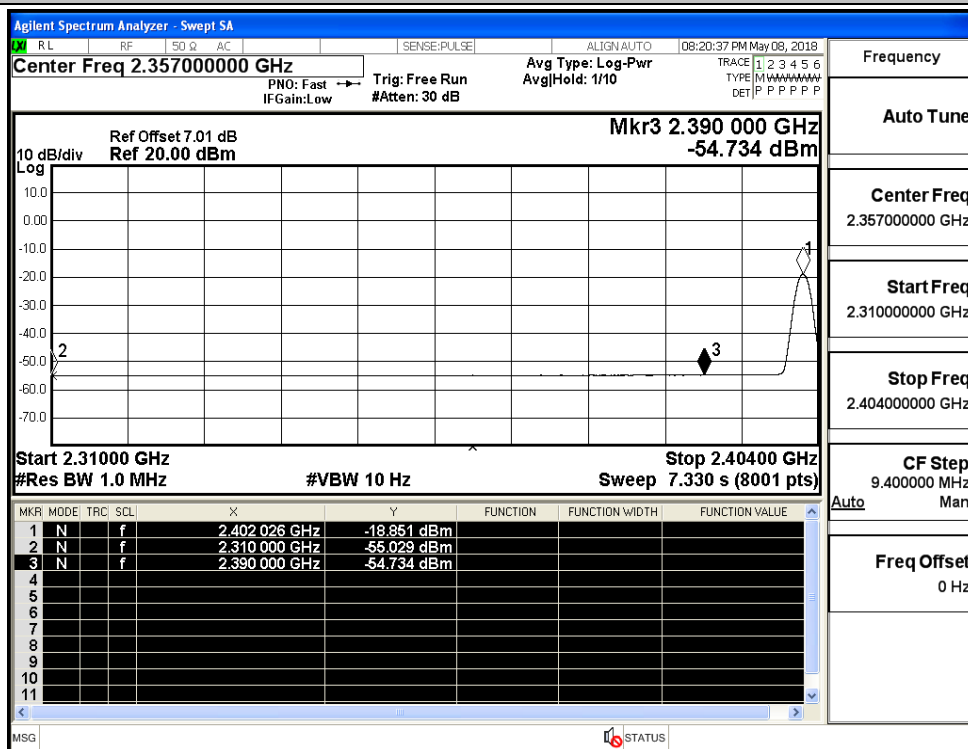
B.8 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
BT LE	2402	Ant1	2310.0	-43.56	2.5	0	54.20	PEAK	74	PASS
		Ant1	2310.0	-55.03	2.5	0	42.73	AV	54	PASS
		Ant1	2390.0	-45.07	2.5	0	52.69	PEAK	74	PASS
		Ant1	2390.0	-54.73	2.5	0	43.03	AV	54	PASS
	2480	Ant1	2483.5	-43.91	2.5	0	53.85	PEAK	74	PASS
		Ant1	2483.5	-54.41	2.5	0	43.35	AV	54	PASS
		Ant1	2500.0	-44.39	2.5	0	53.37	PEAK	74	PASS
		Ant1	2500.0	-54.37	2.5	0	43.39	AV	54	PASS

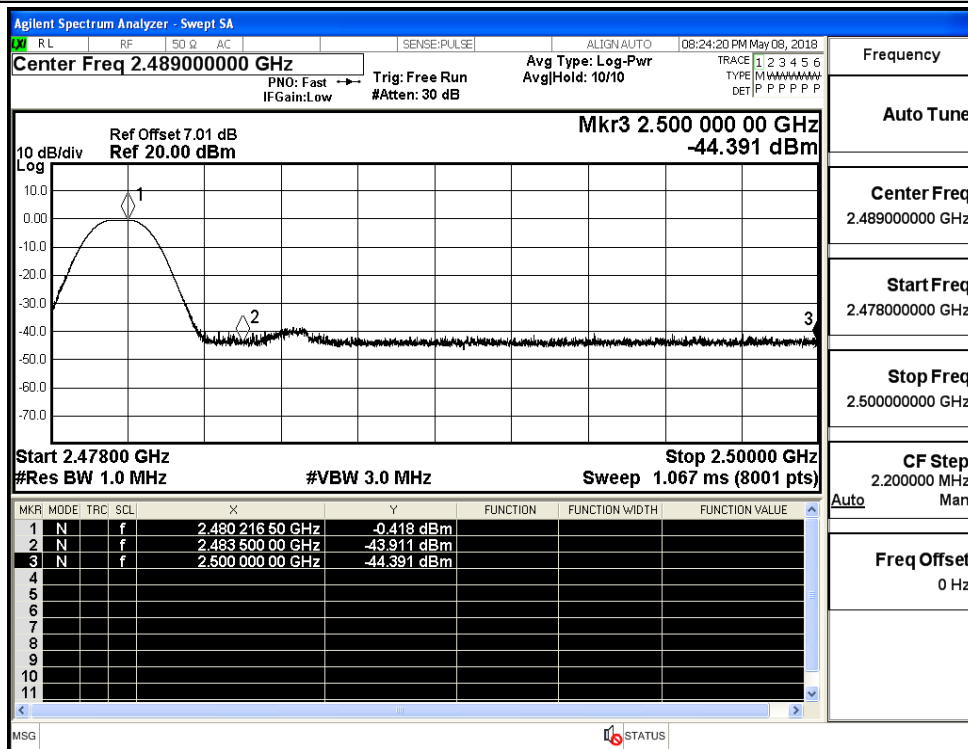
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

