

Appendix B

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

Product Name: Laptop

Trade Mark: Trekstor, PEAQ

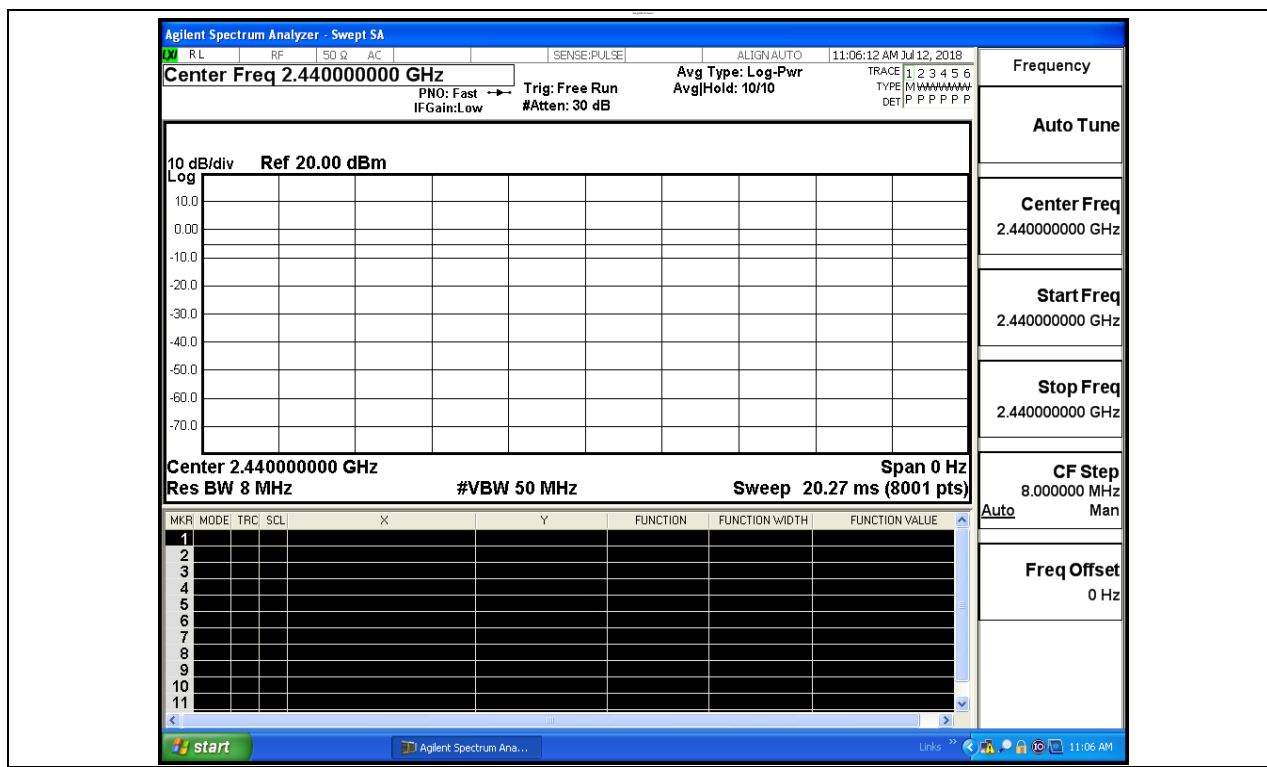
Test Model: G137

Environmental Conditions

Temperature:	23.4 ° C
Relative Humidity:	53.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom.Liu
Supervised by:	Jayden.Zhuo

B.1 Duty Cycle

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

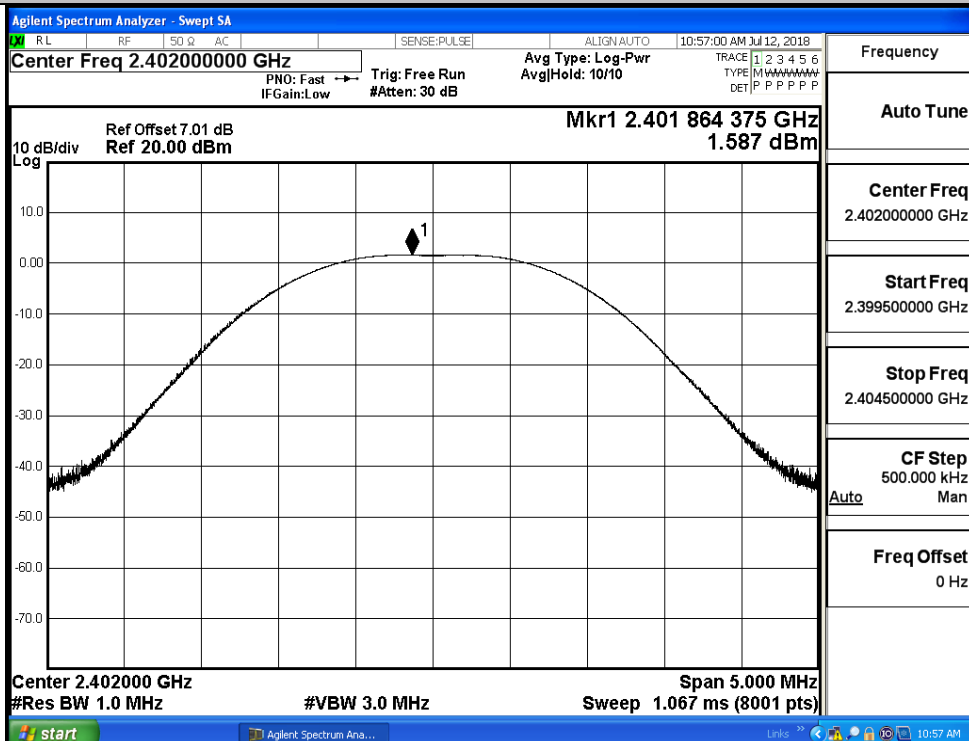


B.2 Maximum Conducted Peak Output Power

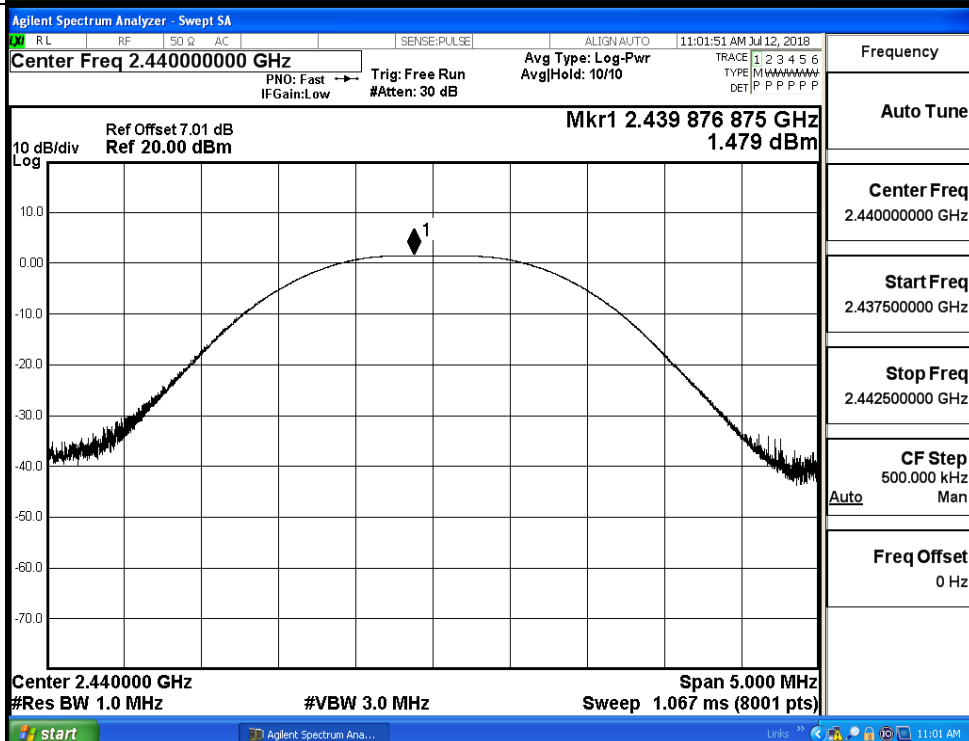
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.587	30	PASS
BT LE	MCH	1.479	30	PASS
BT LE	HCH	1.345	30	PASS

Test Graphs

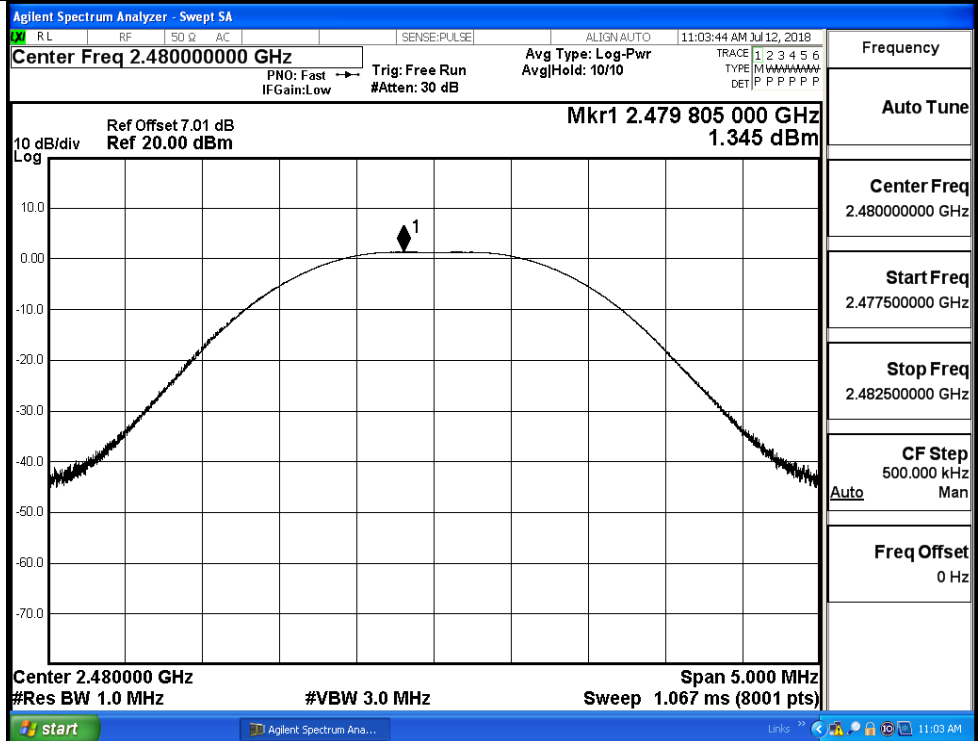
LCH



MCH



HCH

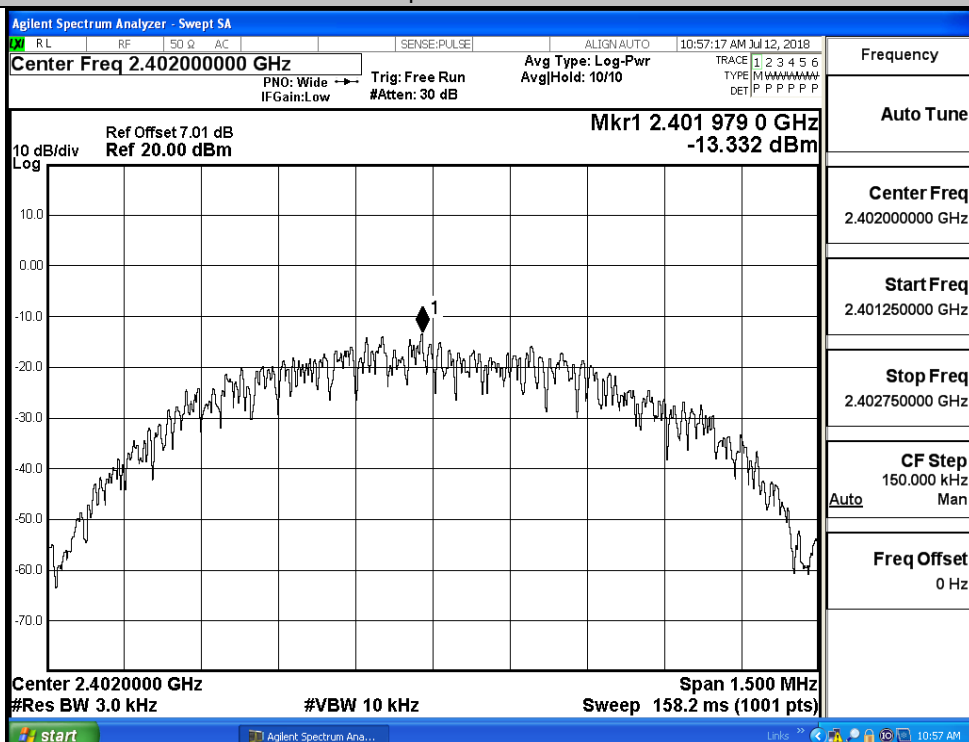


B.3 Maximum Power Spectral Density

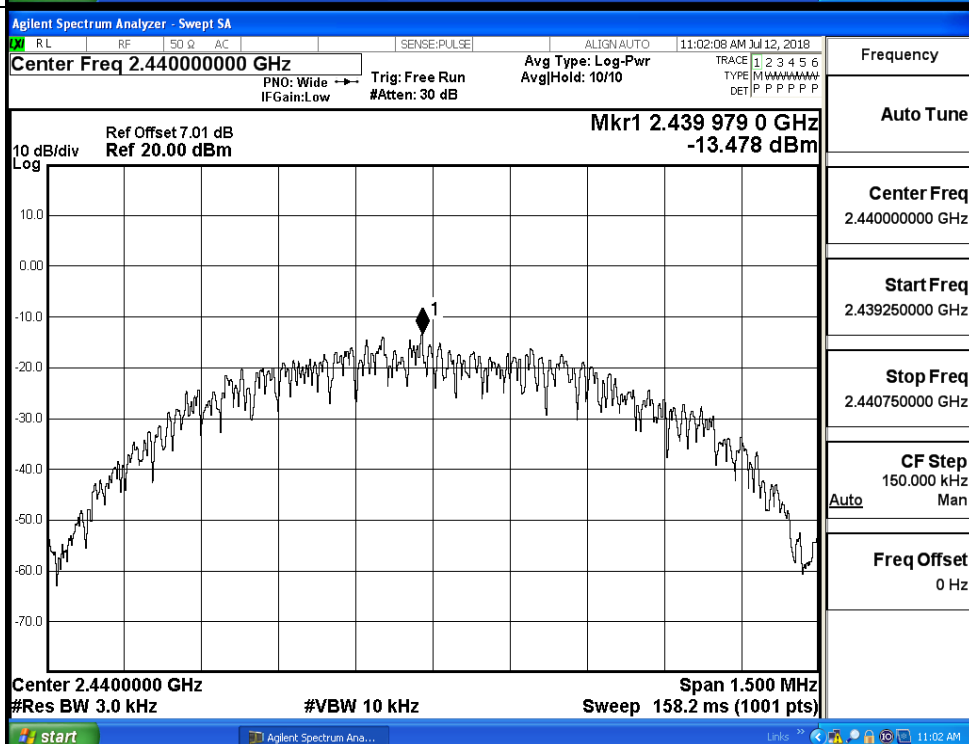
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-13.332	8	PASS
BT LE	MCH	-13.478	8	PASS
BT LE	HCH	-13.565	8	PASS

Test Graphs

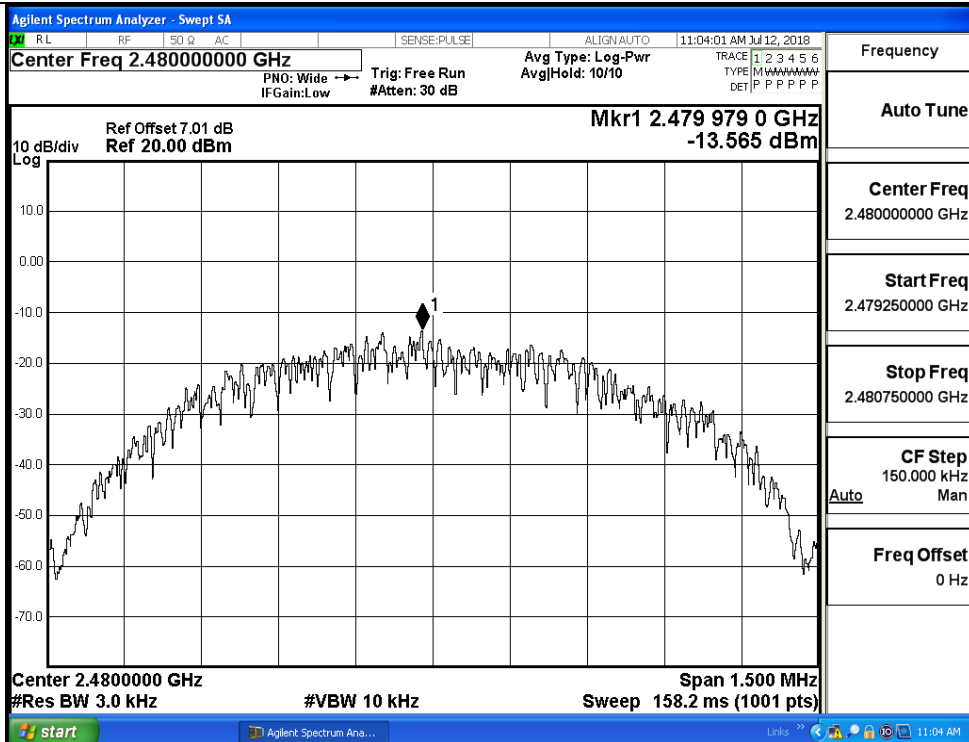
LCH



MCH



HCH

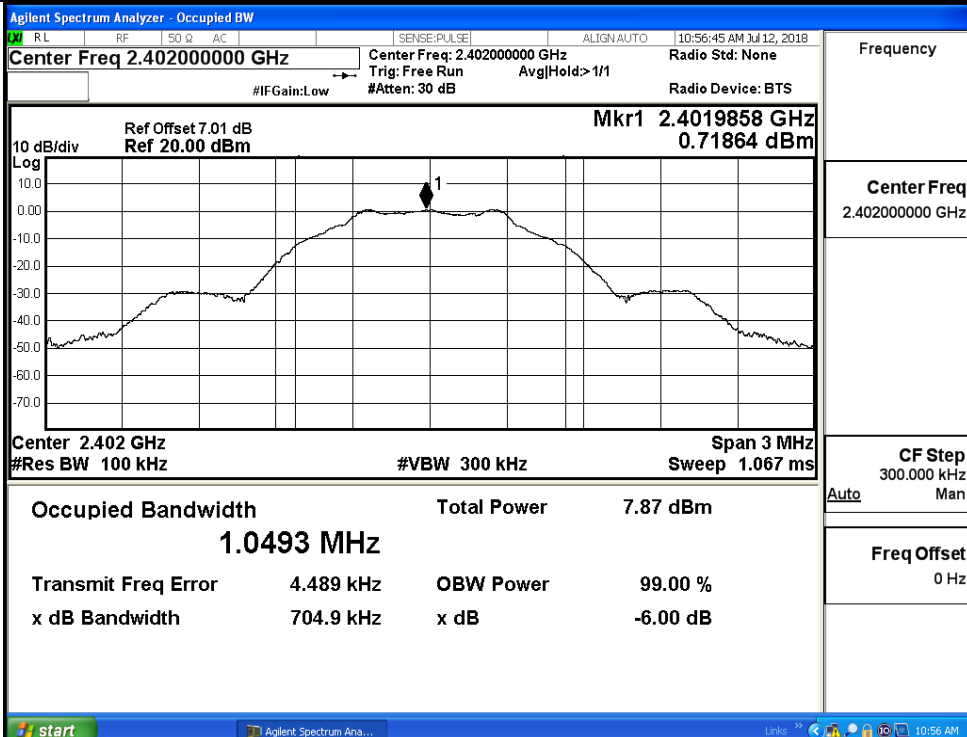


B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7049	≥ 0.5	PASS
BT LE	MCH	0.6910	≥ 0.5	PASS
BT LE	HCH	0.6917	≥ 0.5	PASS

Test Graphs

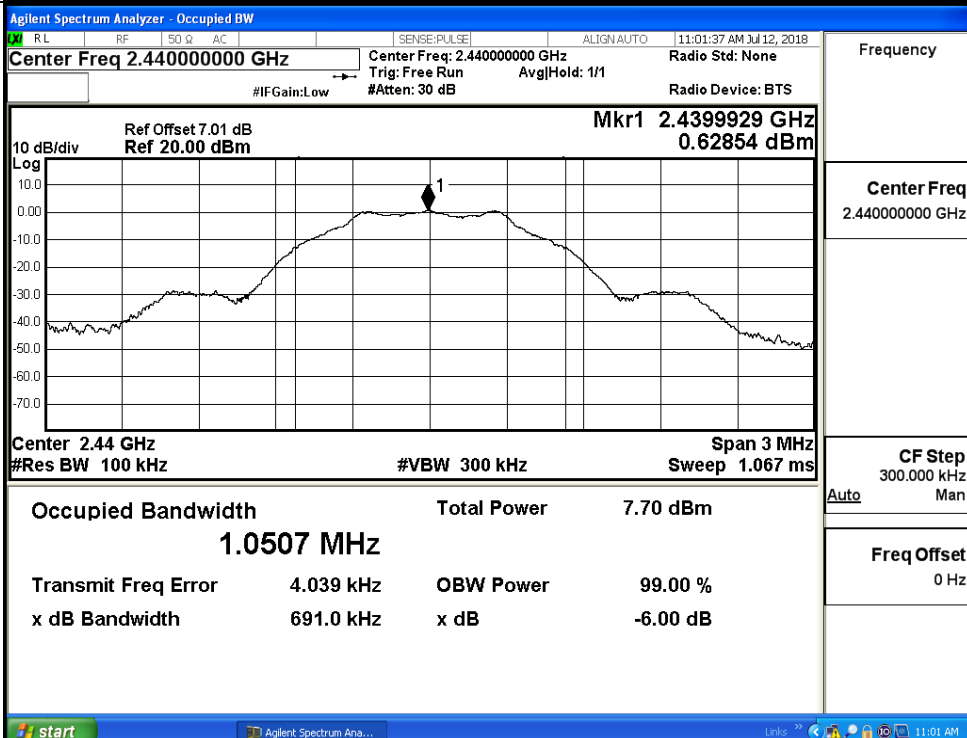
LCH



Frequency

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

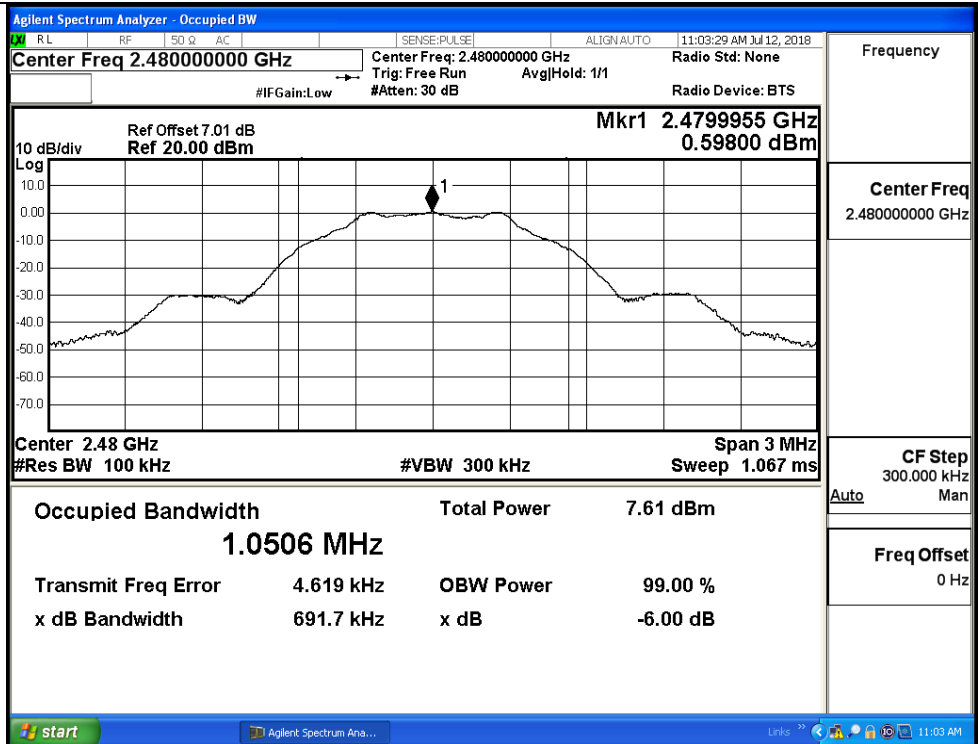
MCH



Frequency

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

HCH

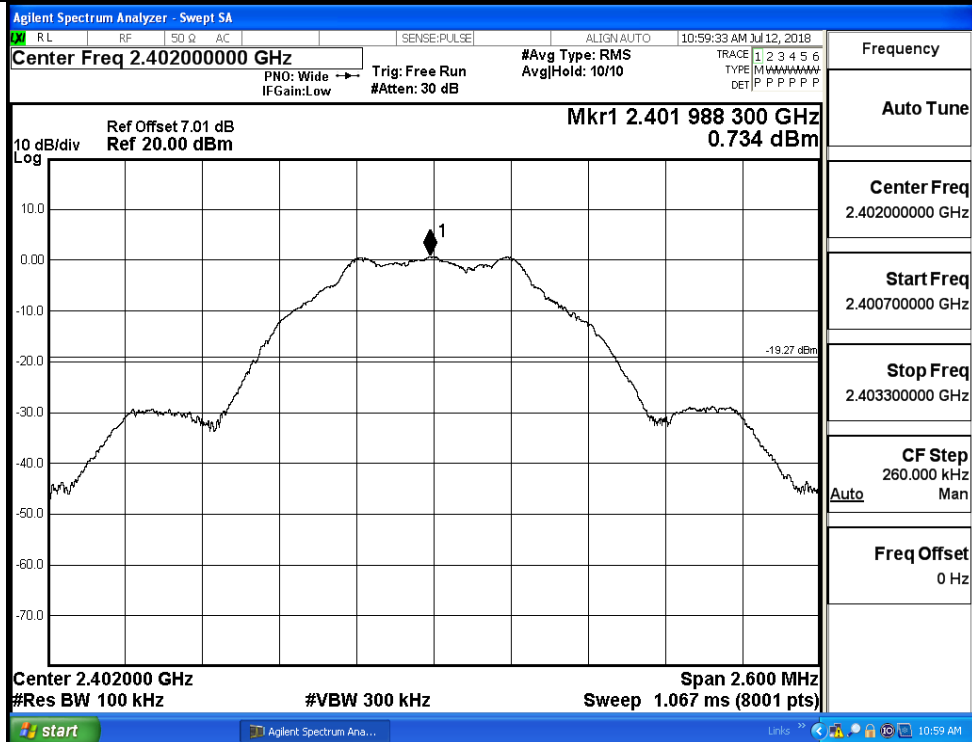


B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.734	-45.383	-19.266	PASS
BT LE	MCH	0.611	-45.577	-19.389	PASS
BT LE	HCH	0.578	-45.559	-19.422	PASS

BT LE_LCH_Graphs

Pref/BT LE/LCH



Frequency

Auto Tune

Center Freq

2.402000000 GHz

Start Freq

2.400700000 GHz

Stop Freq

2.403300000 GHz

CF Step

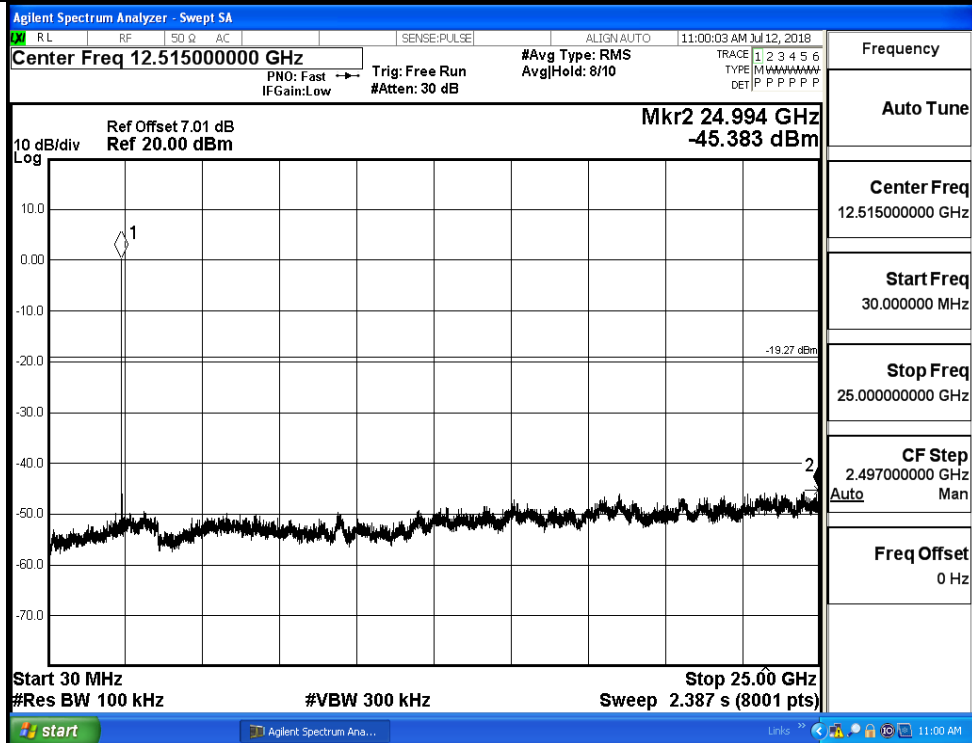
260.000 kHz

Auto

Freq Offset

0 Hz

Puw/BT LE/LCH



Frequency

Auto Tune

Center Freq

12.515000000 GHz

Start Freq

30.000000 MHz

Stop Freq

25.000000000 GHz

CF Step

2.497000000 GHz

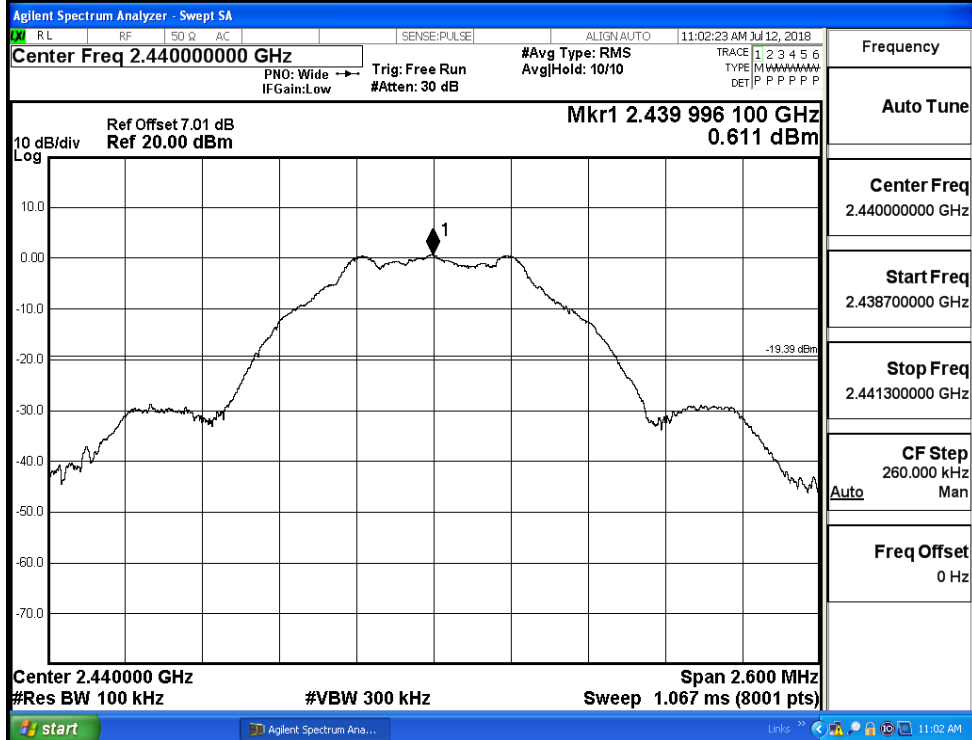
Auto

Freq Offset

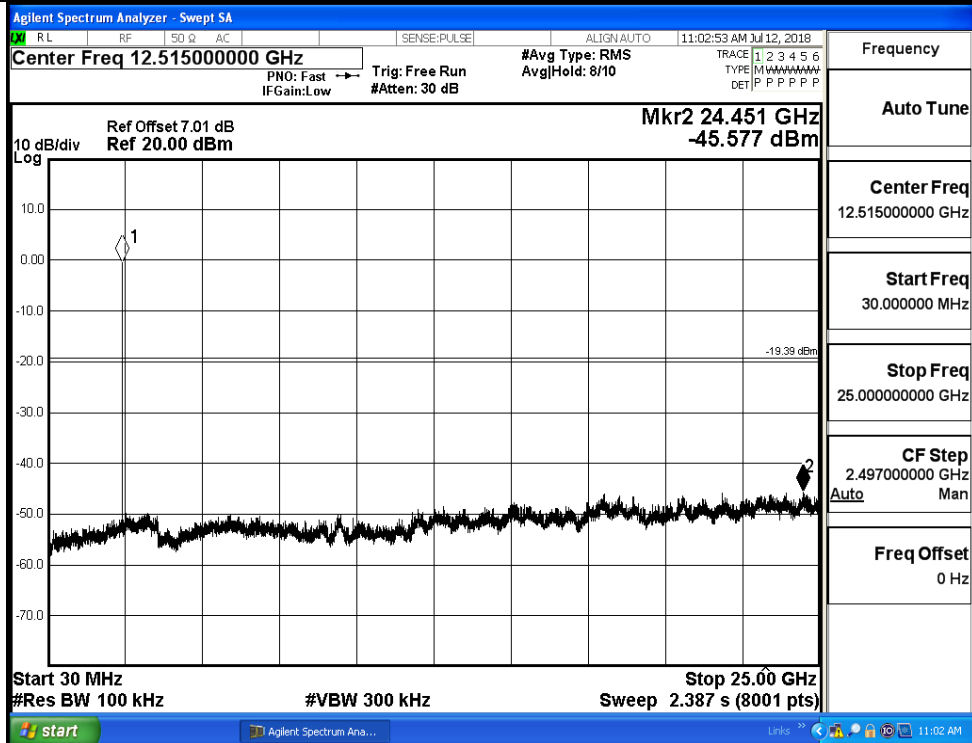
0 Hz

BT LE_MCH_Graphs

Pref/BT LE/MCH

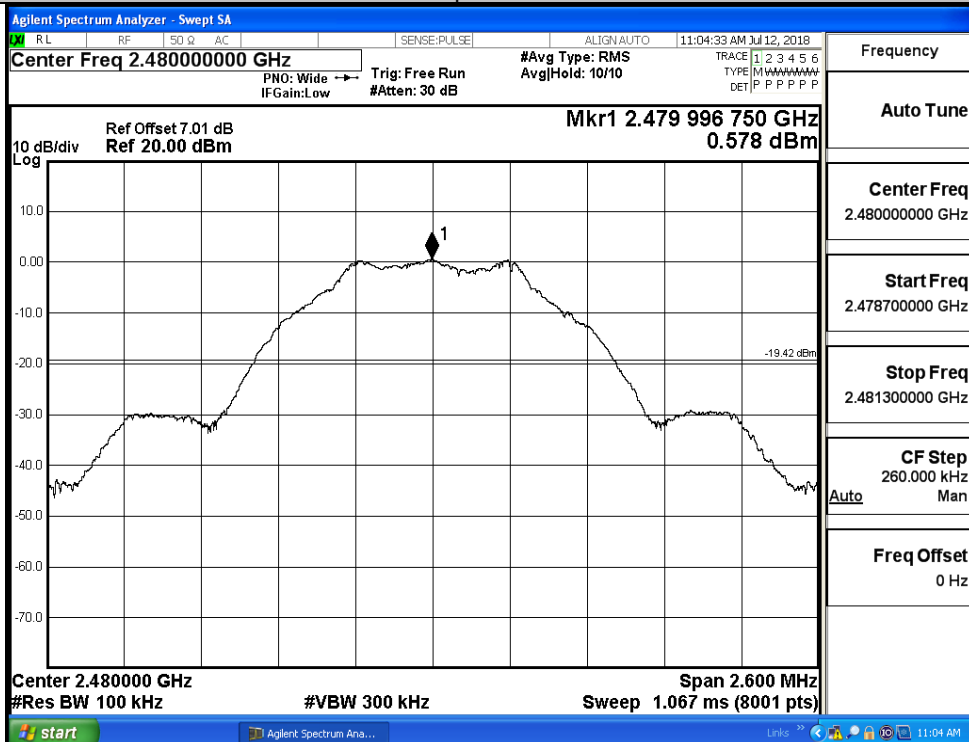


Puw/BT LE/MCH

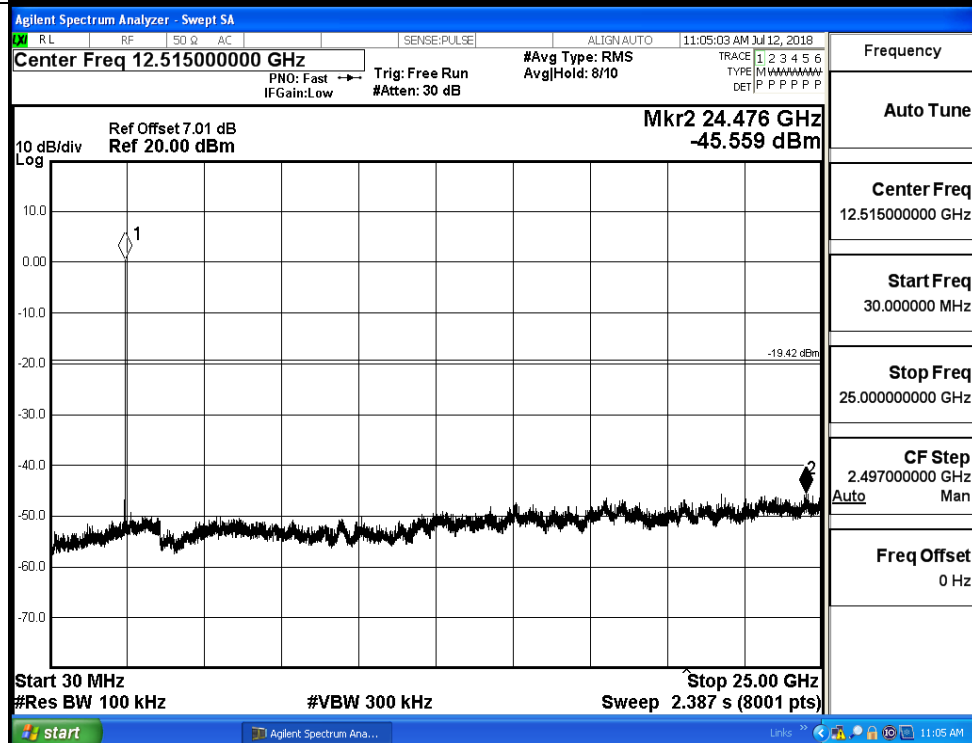


BT LE_HCH_Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

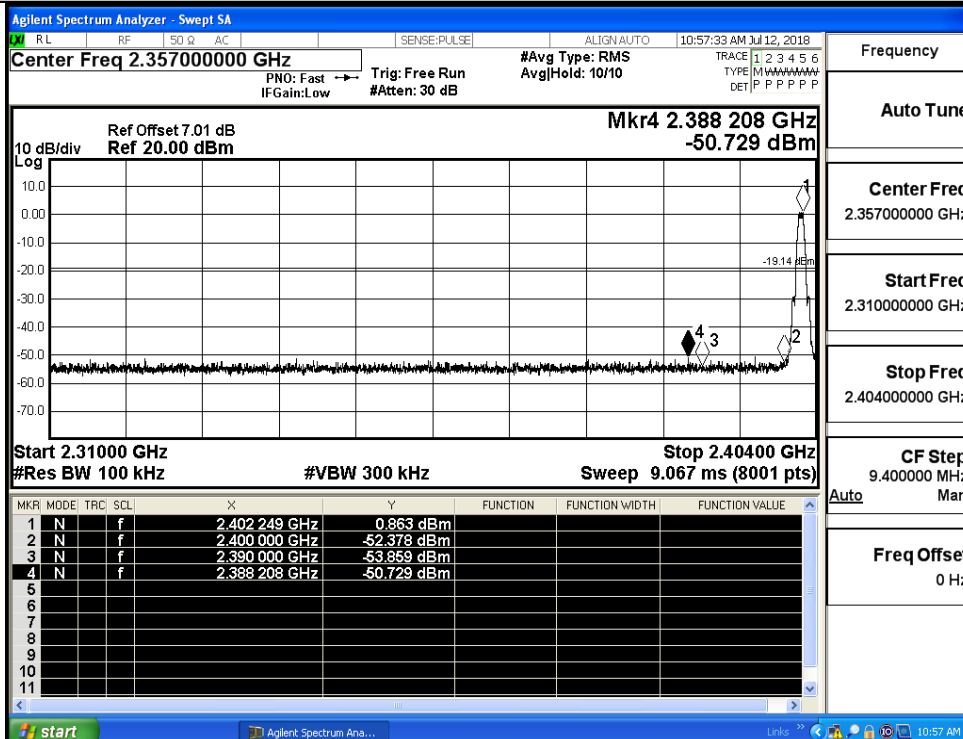


B.6 Band-edge for RF Conducted Emissions

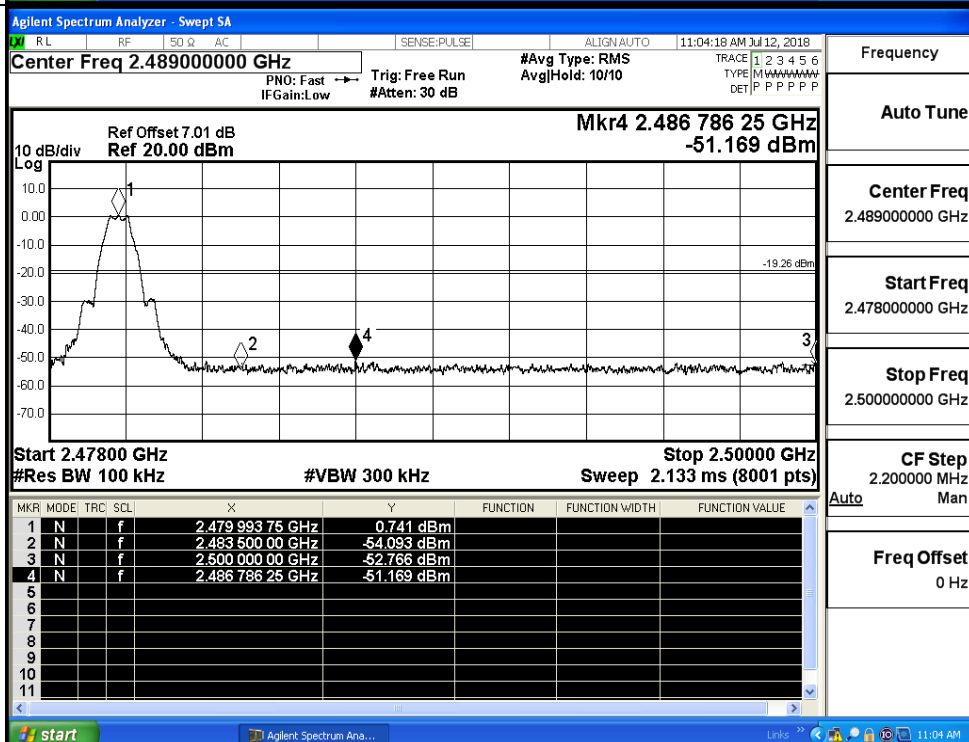
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.863	-50.729	-19.14	PASS
BT LE	HCH	0.741	-51.169	-19.26	PASS

Test Graphs

LCH



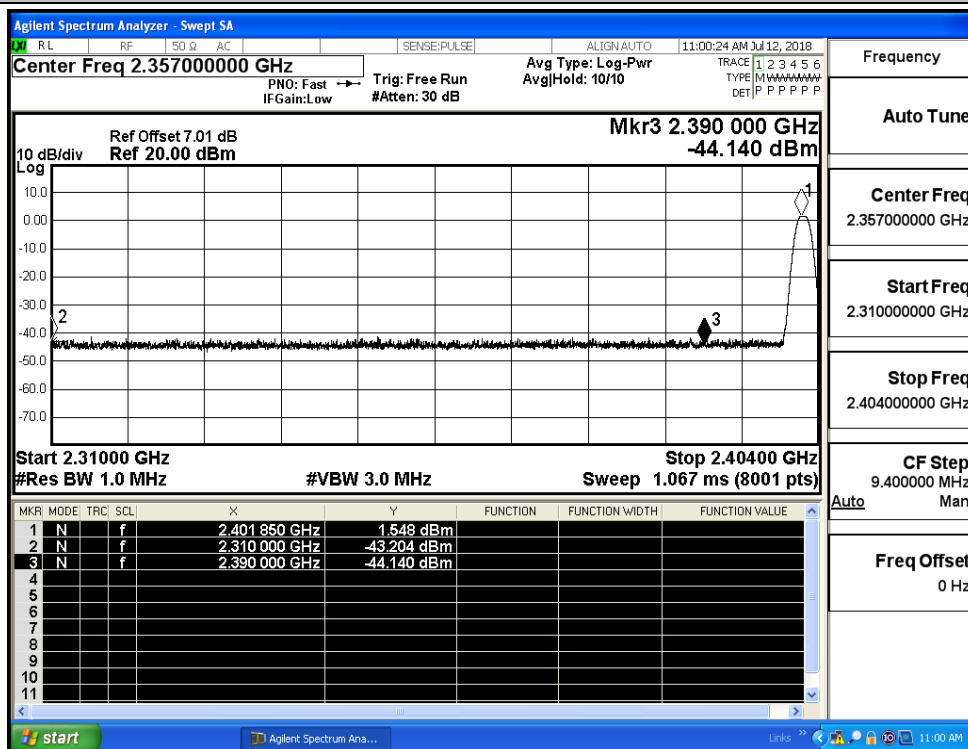
HCH



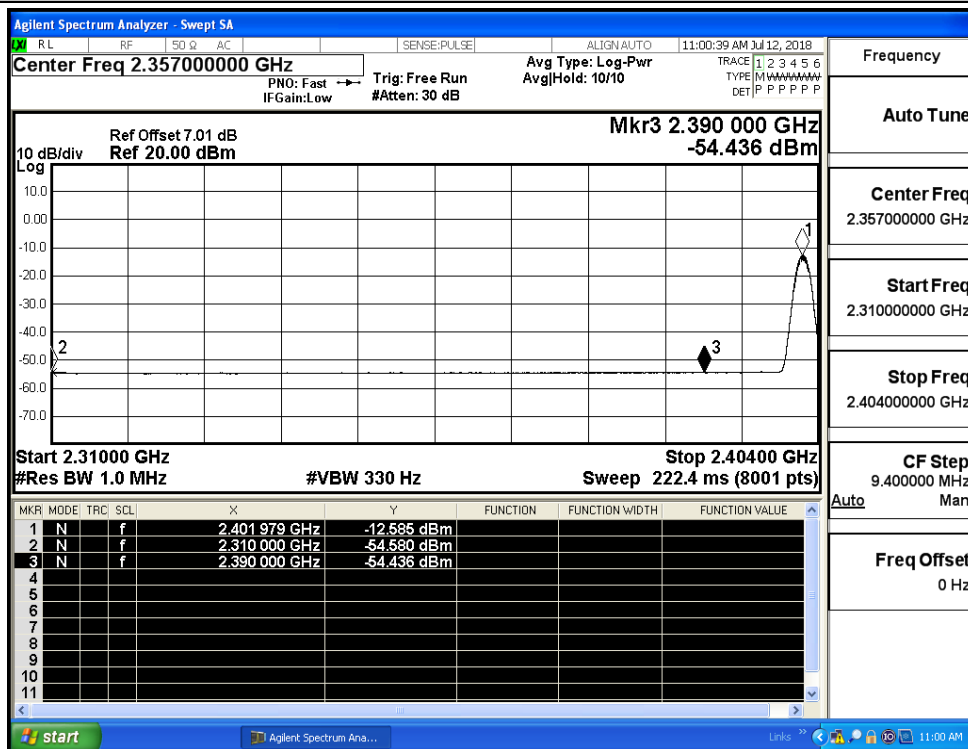
B.7 Restrict-band band-edge measurements

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	-43.20	2.0	0	52.05	PEAK	74	PASS
		Ant1	2310.0	-54.58	2.0	0	40.68	AV	54	PASS
		Ant1	2390.0	-44.14	2.0	0	51.12	PEAK	74	PASS
		Ant1	2390.0	-54.44	2.0	0	40.82	AV	54	PASS
	2480	Ant1	2483.5	-44.34	2.0	0	50.92	PEAK	74	PASS
		Ant1	2483.5	-54.13	2.0	0	41.13	AV	54	PASS
		Ant1	2500.0	-43.93	2.0	0	51.33	PEAK	74	PASS
		Ant1	2500.0	-54.08	2.0	0	41.18	AV	54	PASS

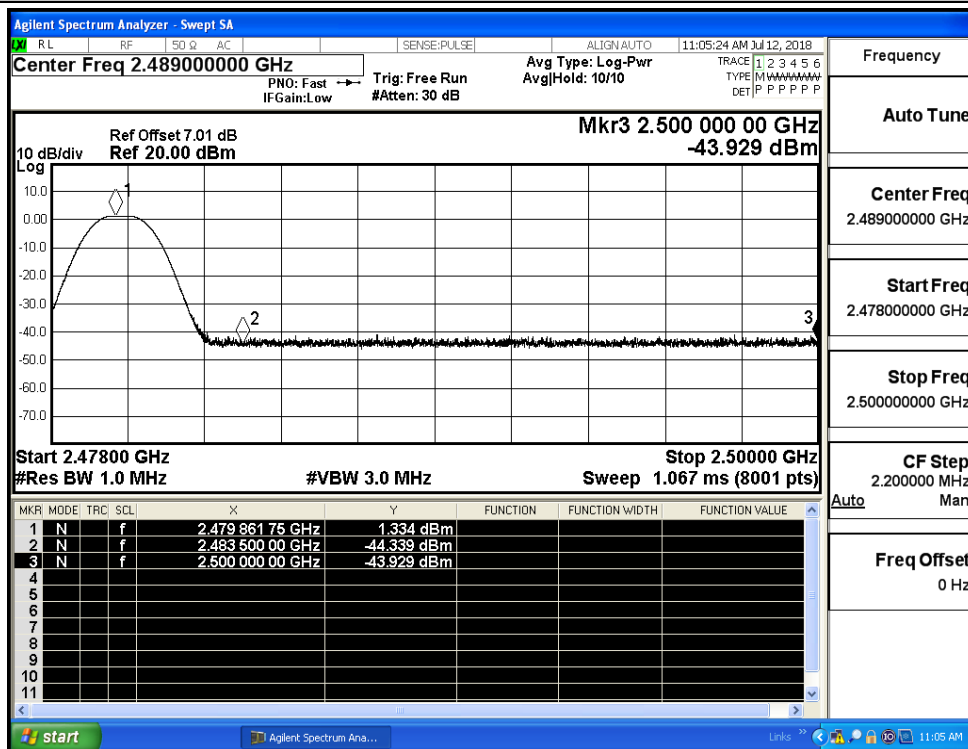
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

