

Appendix B

RF Test Data for BT 4.1 (BDR/EDR) (Conducted Measurement)

Product Name: Android TV BOX

Trade Mark: N/A

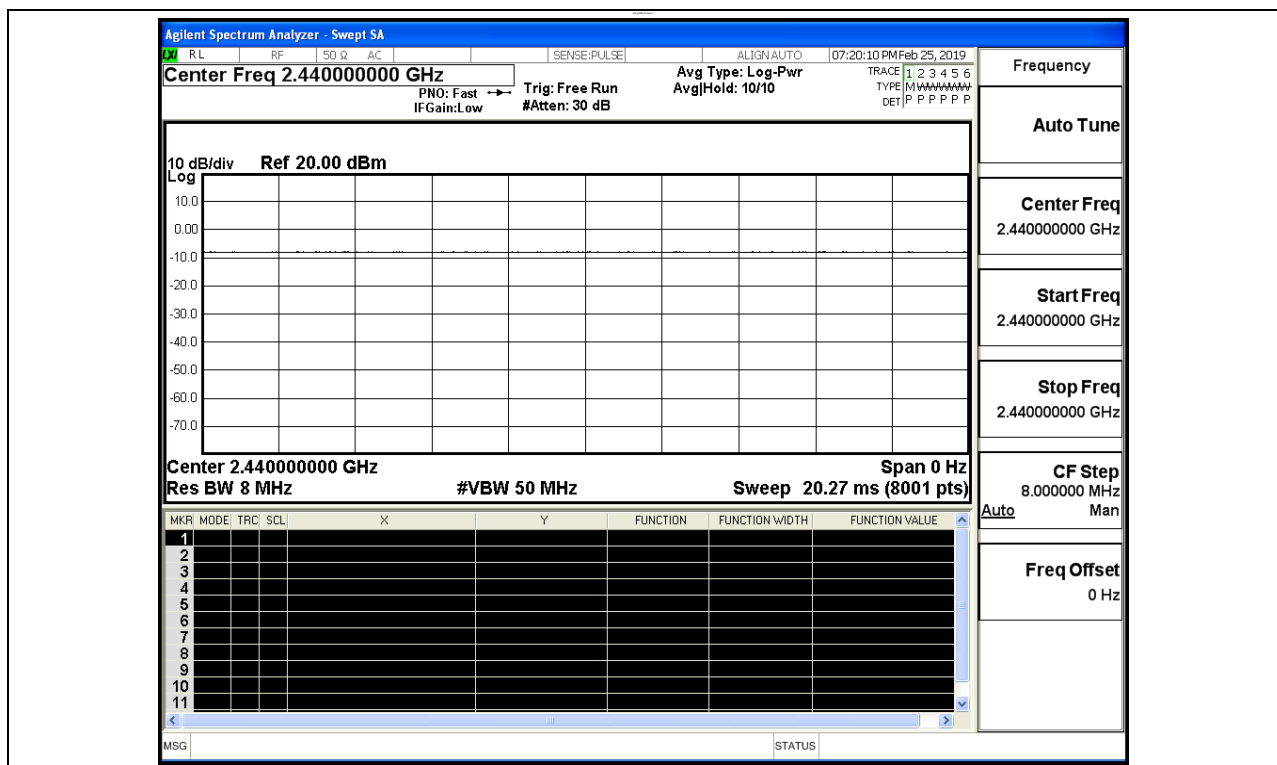
Test Model: KM9

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Wang Chuang
Supervised by:	Jayden.Zhuo

B.1 Duty Cycle

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

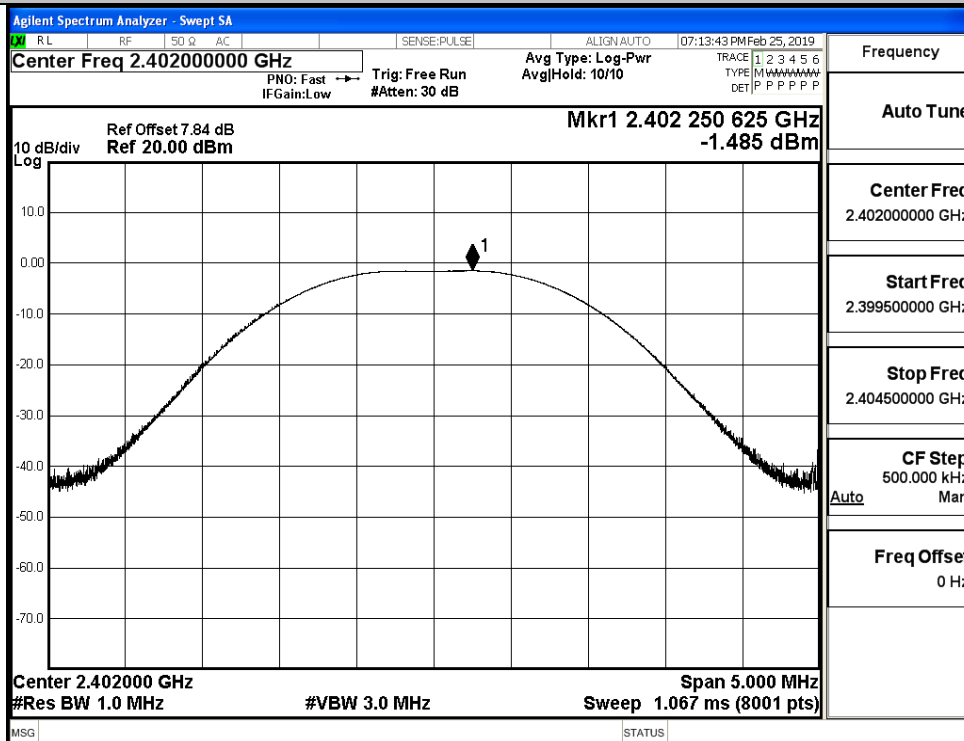


B.2 Maximum Conducted Peak Output Power

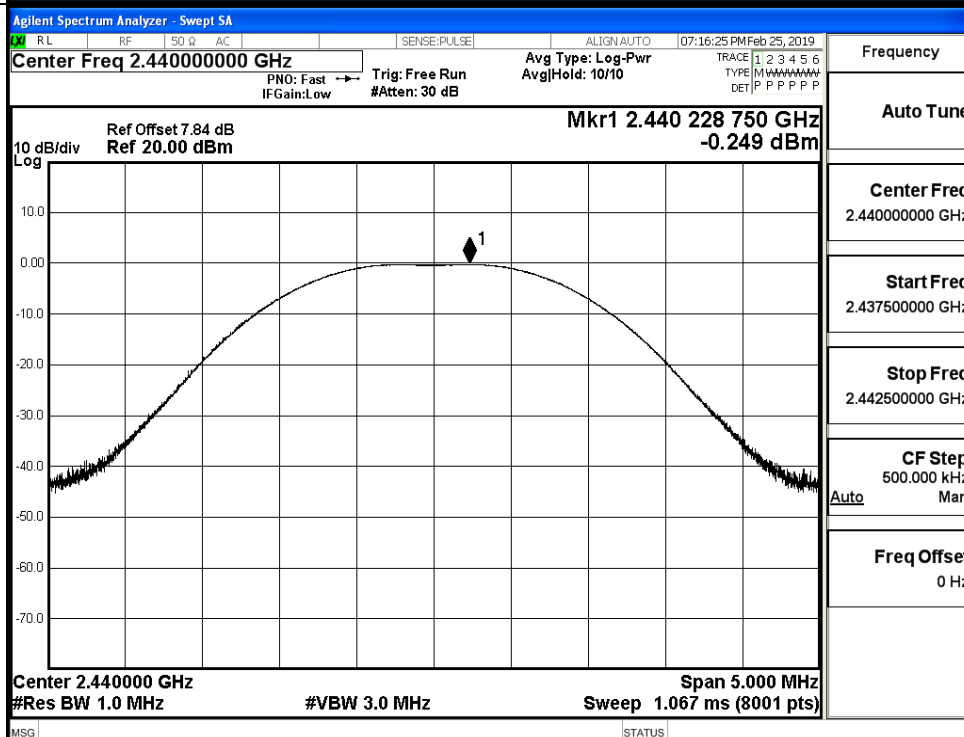
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.485	30	PASS
BT LE	MCH	-0.249	30	PASS
BT LE	HCH	-1.058	30	PASS

Test Graphs

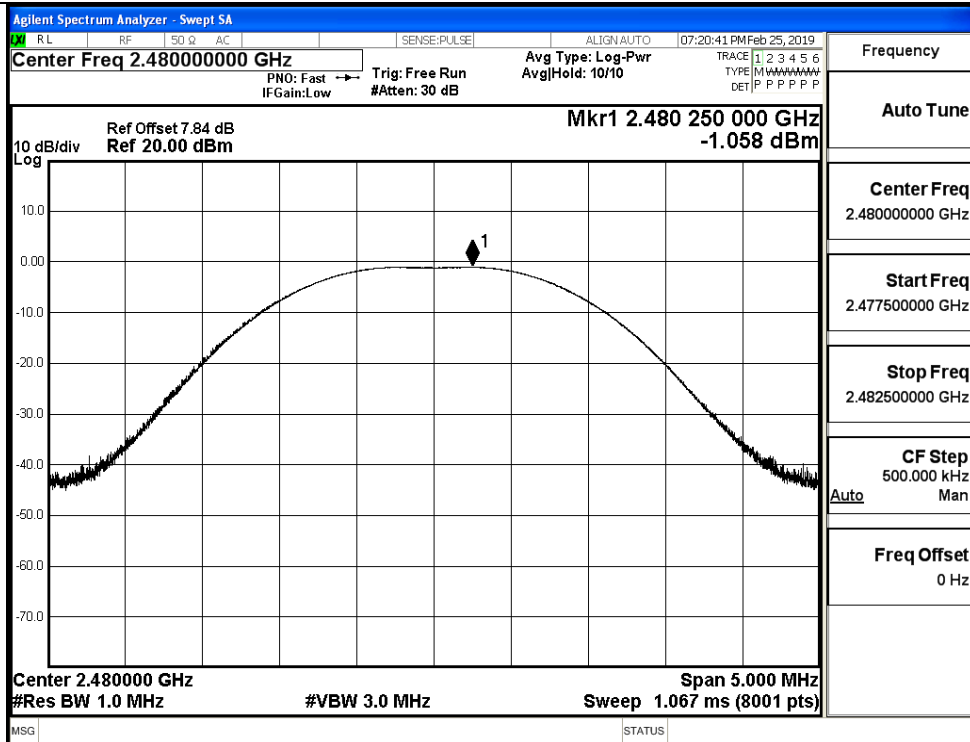
LCH



MCH



HCH

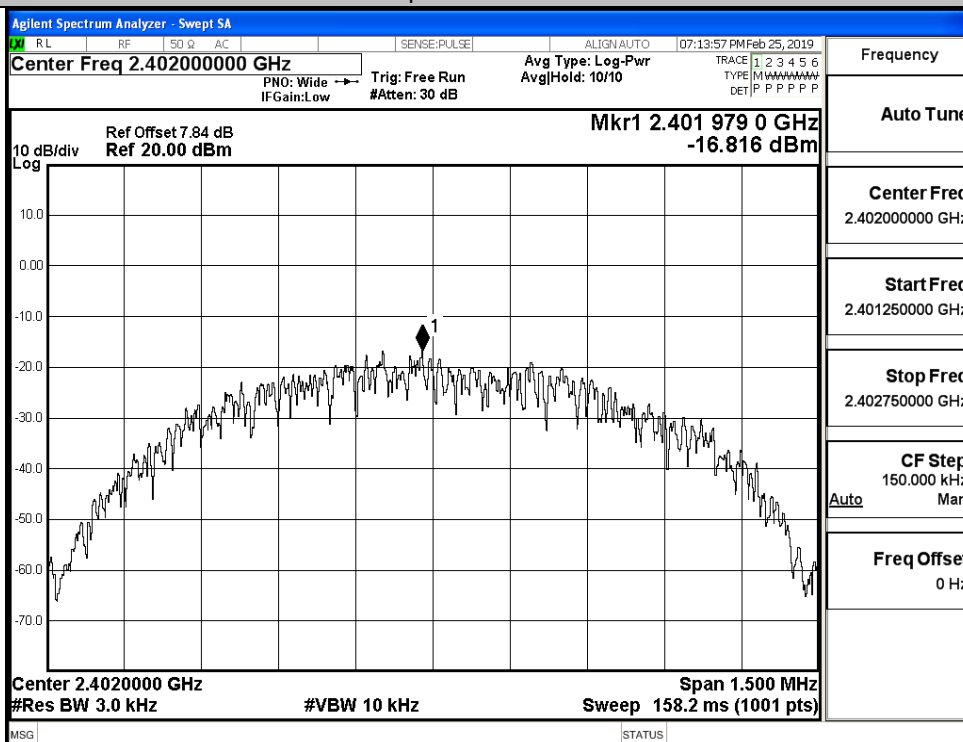


B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-16.816	8	PASS
BT LE	MCH	-15.328	8	PASS
BT LE	HCH	-15.970	8	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.402000000 GHz

Start Freq

2.401250000 GHz

Stop Freq

2.402750000 GHz

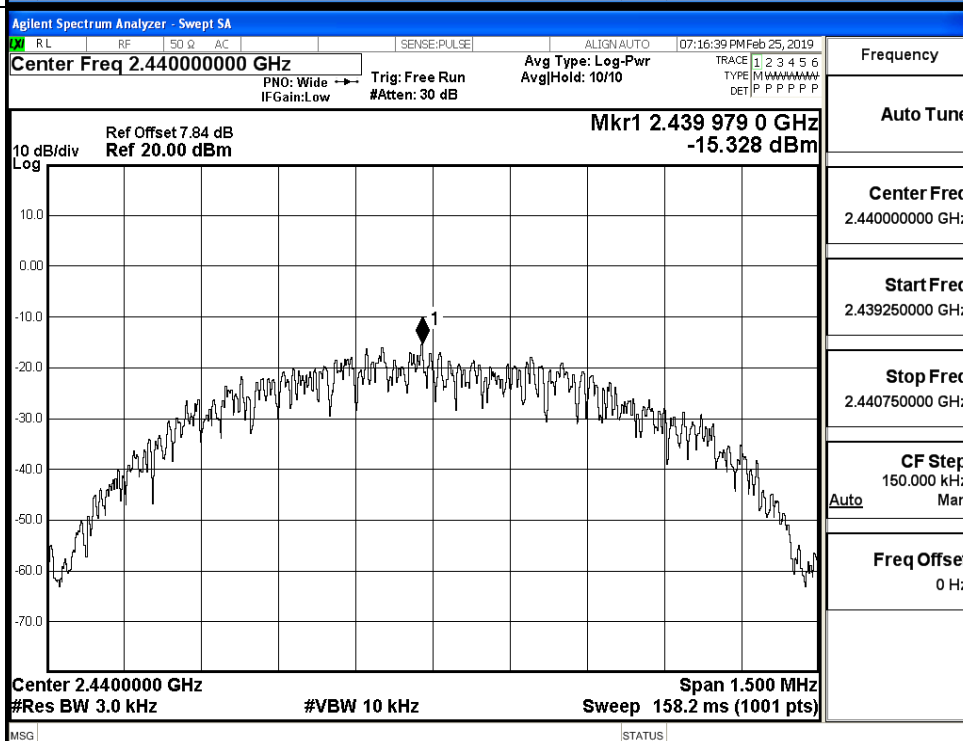
CF Step

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

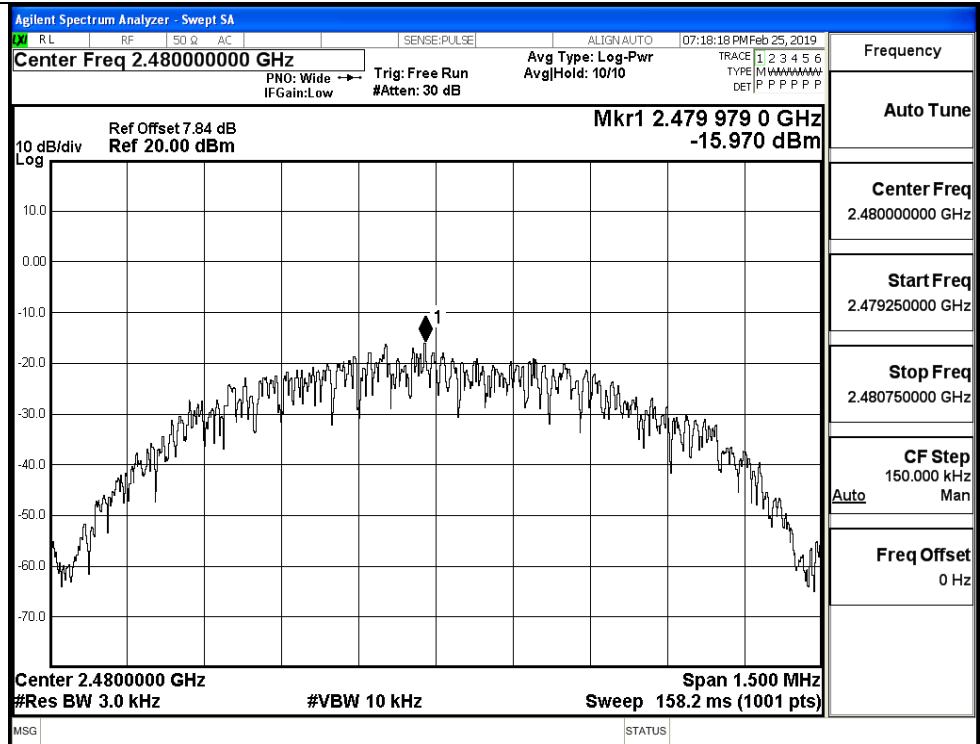
CF Step

150.000 kHz
Auto Man

Freq Offset

0 Hz

HCH

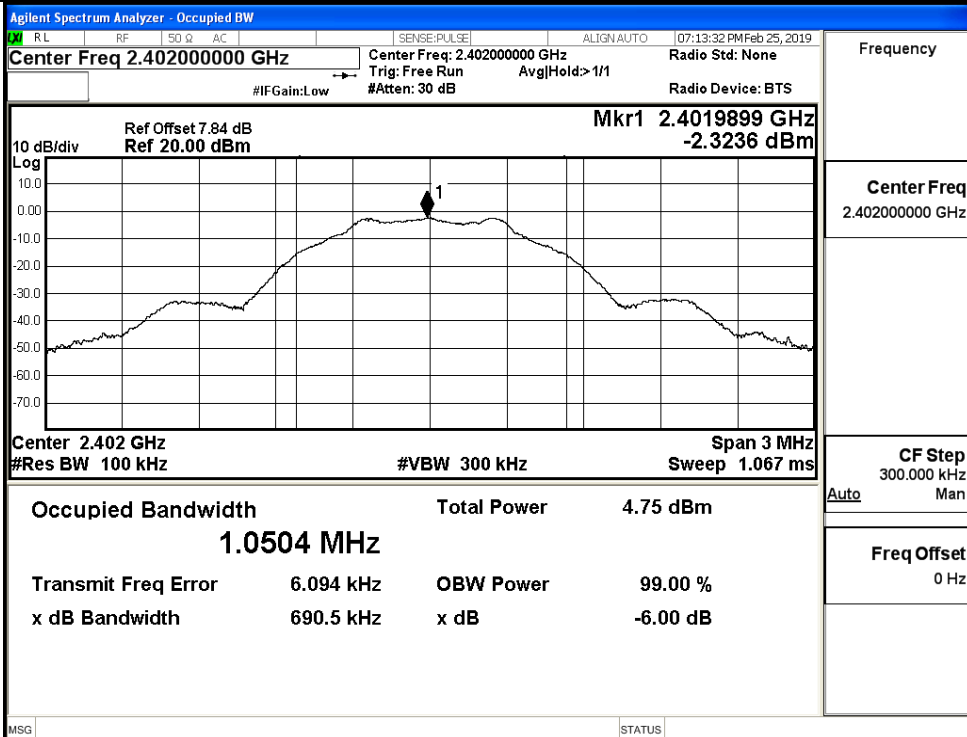


B.4 6dB Bandwidth

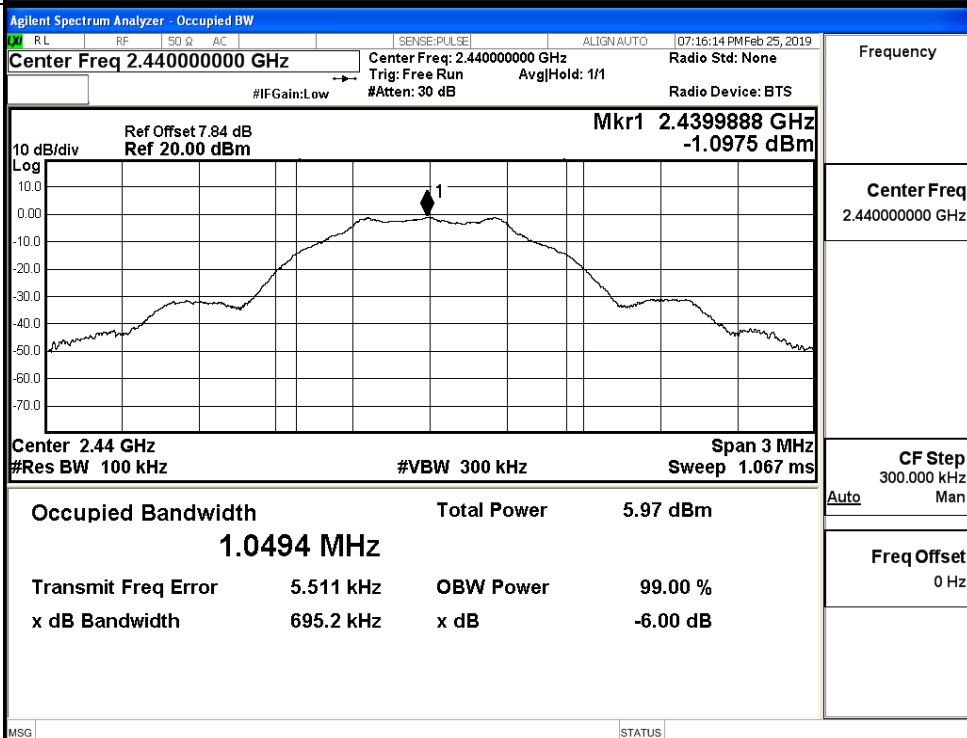
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6905	≥0.5	PASS
BT LE	MCH	0.6952	≥0.5	PASS
BT LE	HCH	0.6778	≥0.5	PASS

Test Graphs

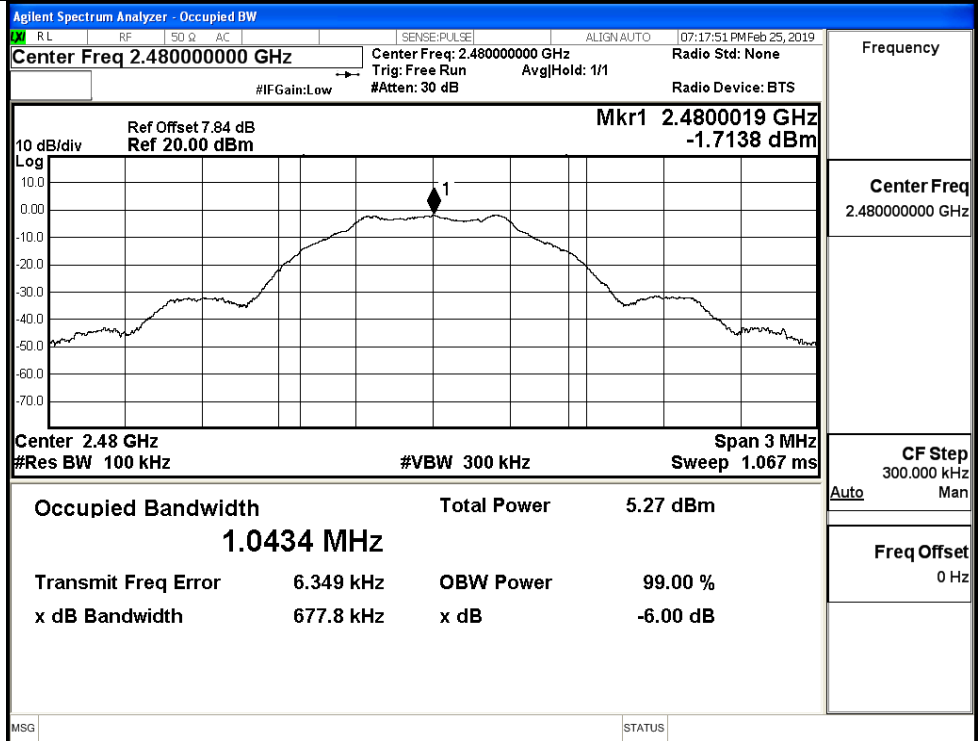
LCH



MCH



HCH

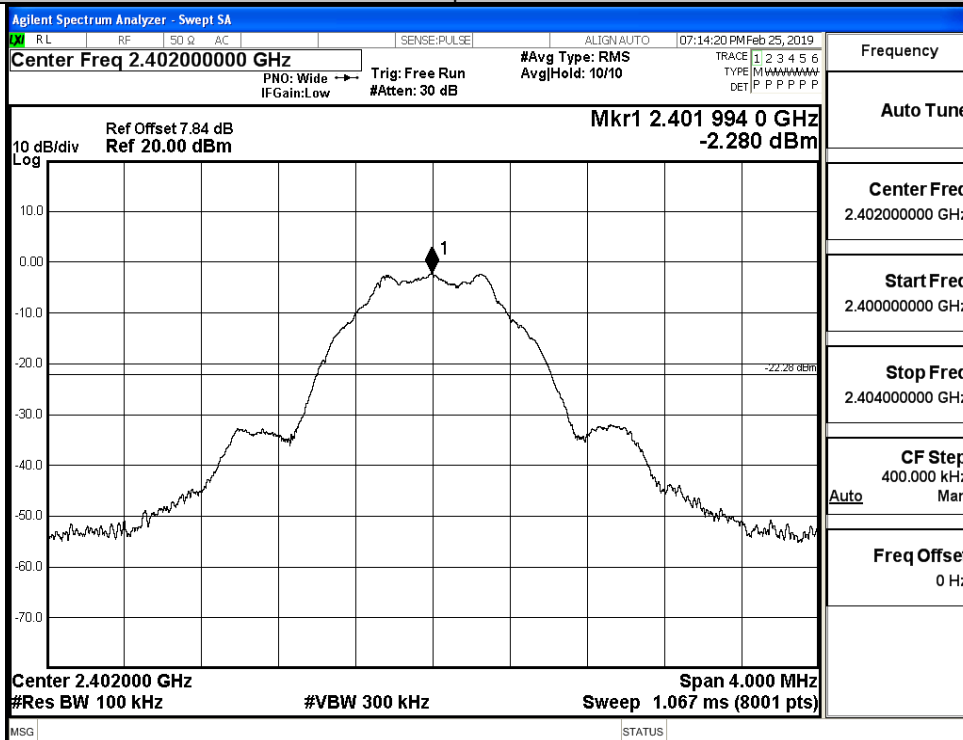


B.5 RF Conducted Spurious Emissions

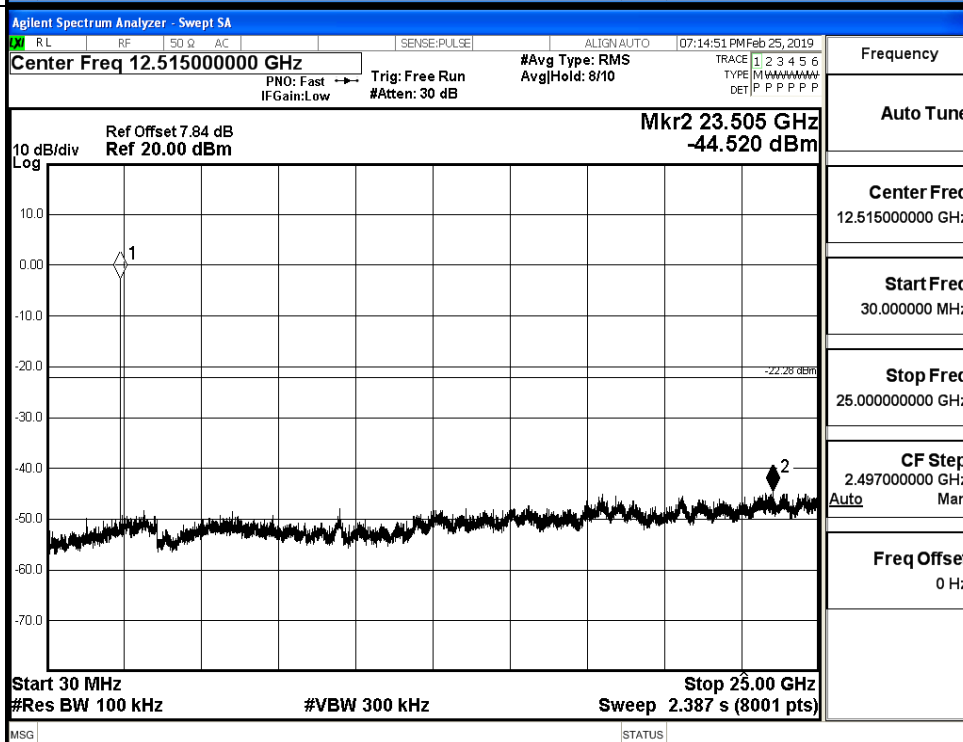
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.28	-44.520	-22.280	PASS
BT LE	MCH	-1.09	-44.230	-21.090	PASS
BT LE	HCH	-1.833	-44.259	-21.833	PASS

BT LE_LCH_Graphs

Pref/BT LE/LCH

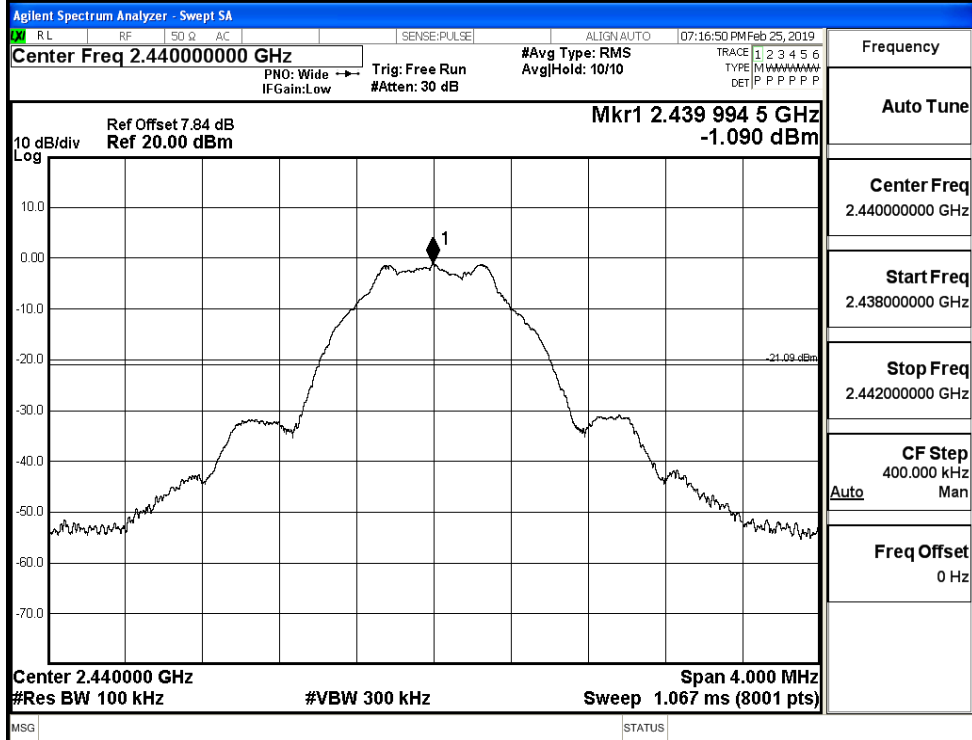


Puw/BT LE/LCH

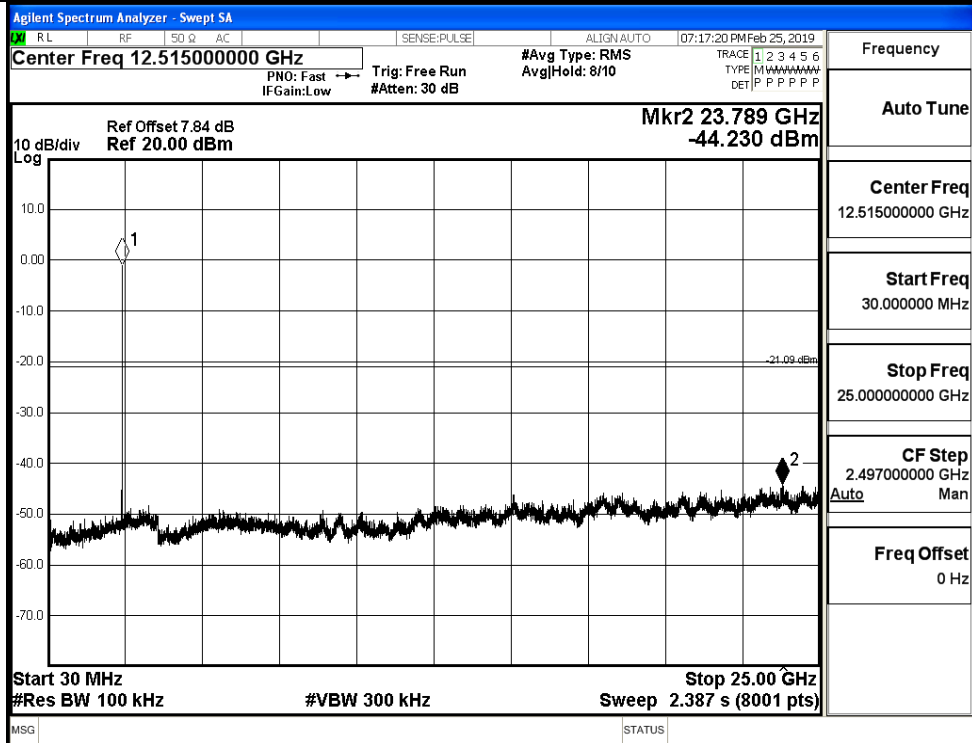


BT LE_MCH_Graphs

Pref/BT LE/MCH

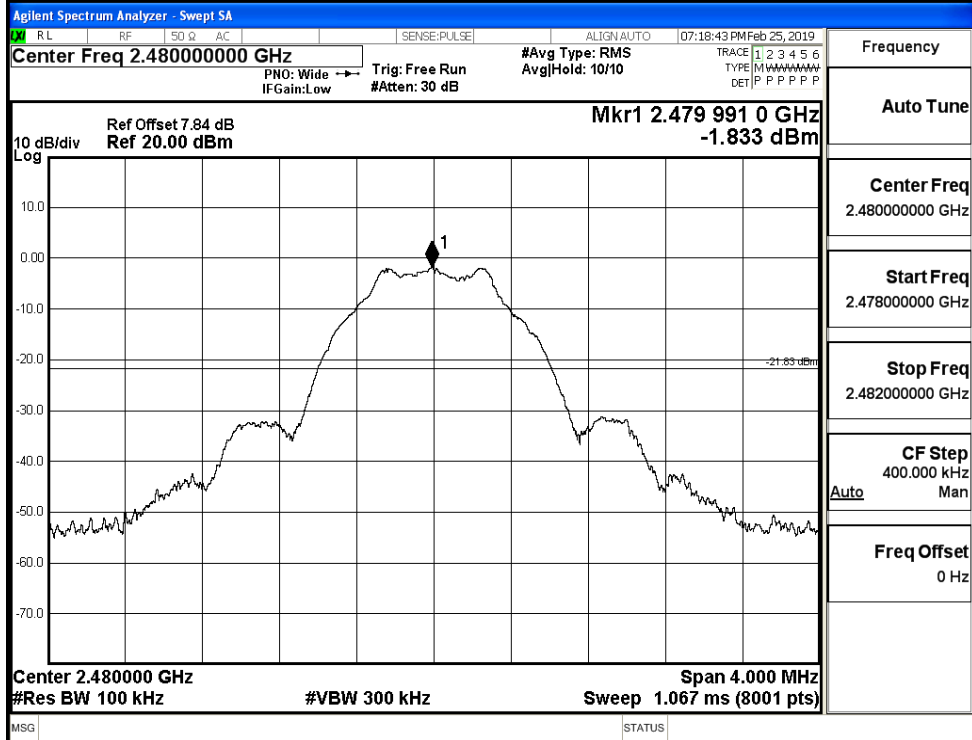


Puw/BT LE/MCH

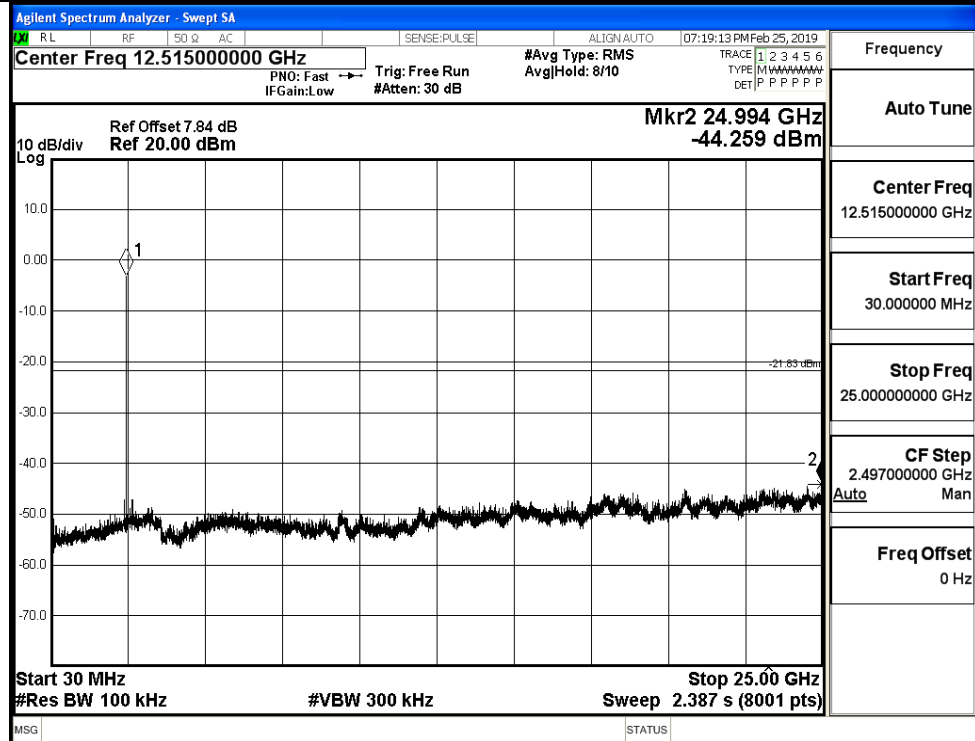


BT LE_HCH_Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

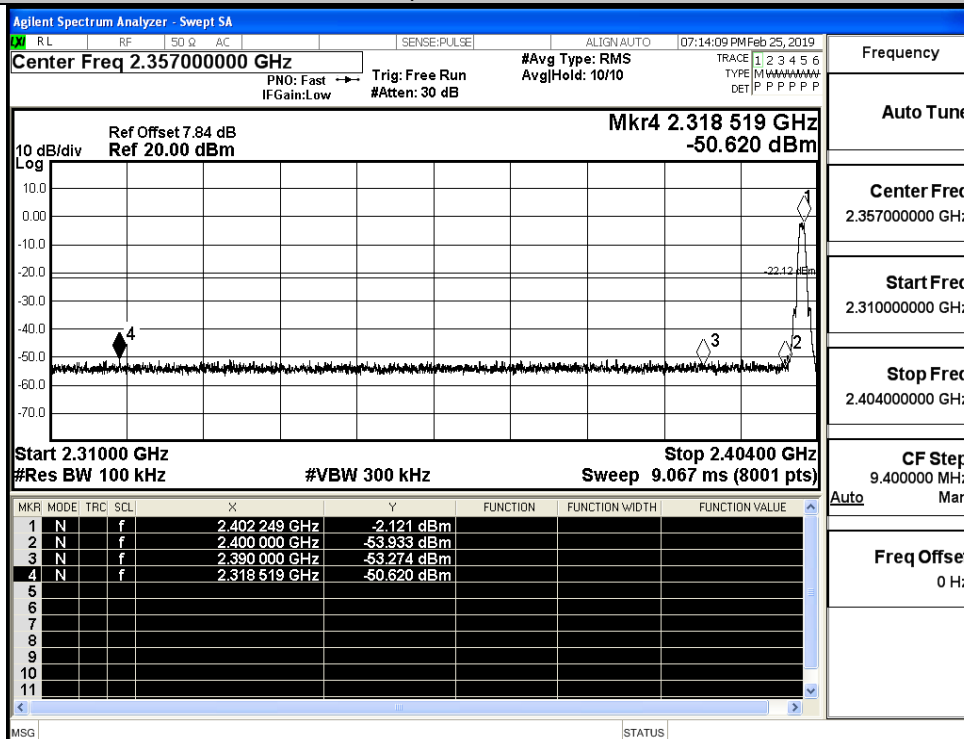


B.6 Band-edge for RF Conducted Emissions

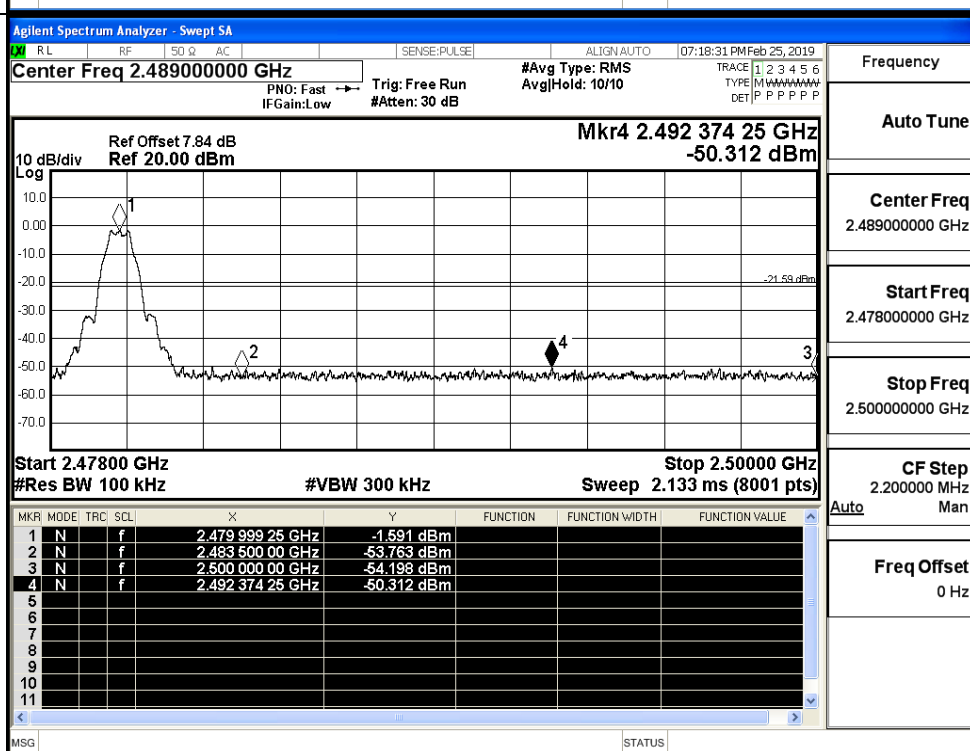
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.121	-50.620	-22.12	PASS
BT LE	HCH	-1.591	-50.312	-21.59	PASS

Test Graphs

LCH



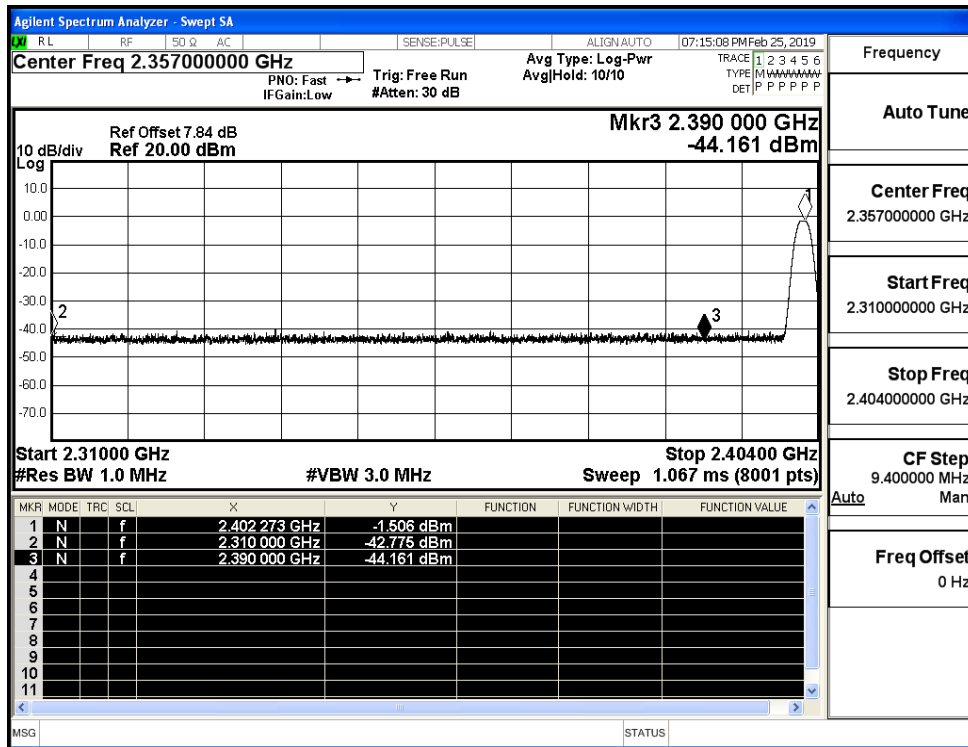
HCH



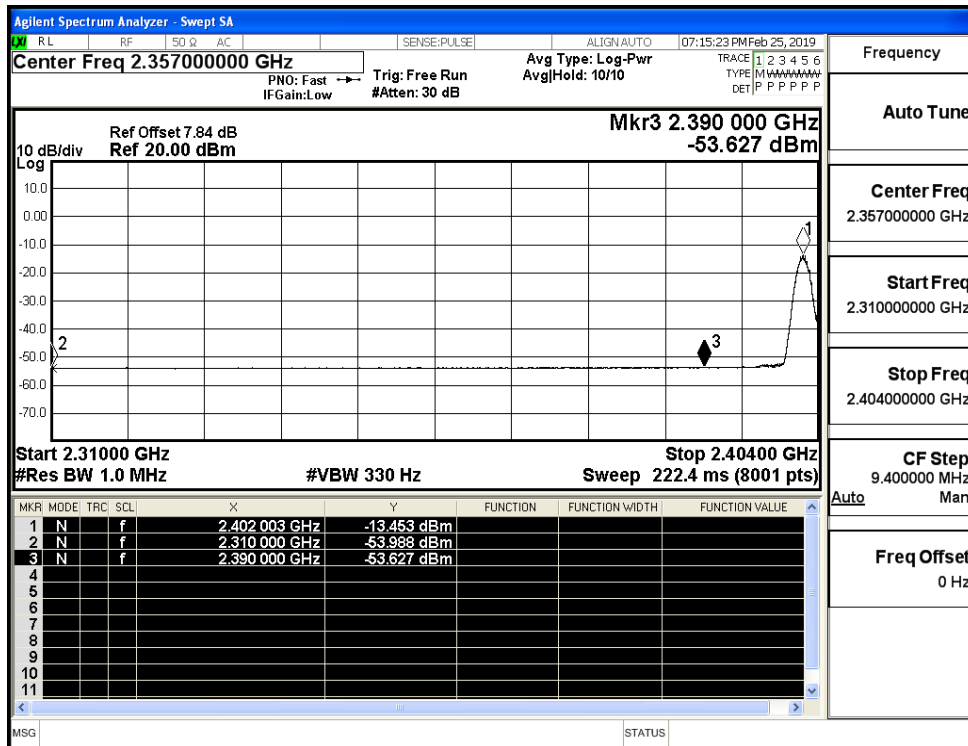
B.7 Restrict-band band-edge measurements

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	-42.78	3.0	0	55.48	PEAK	74	PASS
		Ant1	2310.0	-53.99	3.0	0	44.27	AV	54	PASS
		Ant1	2390.0	-44.16	3.0	0	54.1	PEAK	74	PASS
		Ant1	2390.0	-53.63	3.0	0	44.63	AV	54	PASS
	2480	Ant1	2483.5	-43.14	3.0	0	55.12	PEAK	74	PASS
		Ant1	2483.5	-53.53	3.0	0	44.73	AV	54	PASS
		Ant1	2500.0	-42.57	3.0	0	55.69	PEAK	74	PASS
		Ant1	2500.0	-53.32	3.0	0	44.94	AV	54	PASS

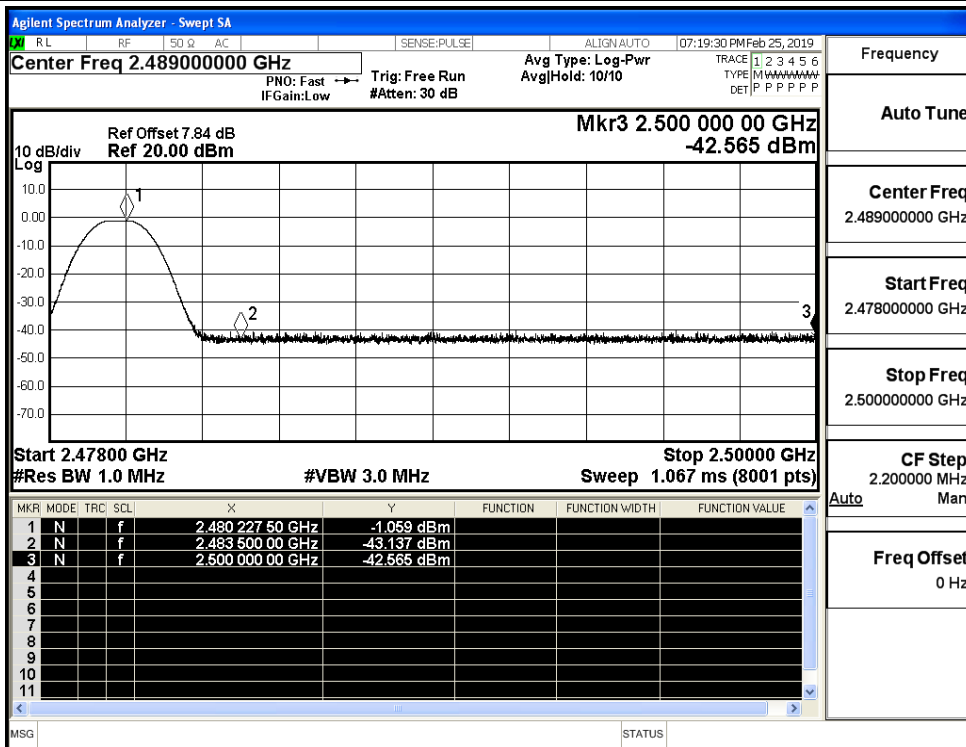
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

