

Appendix B

RF Test Data for BT V4.0(LE) (Conducted Measurement)

Product Name: Temperature and Timing Controller

Trade Mark: PHYZIOFIT

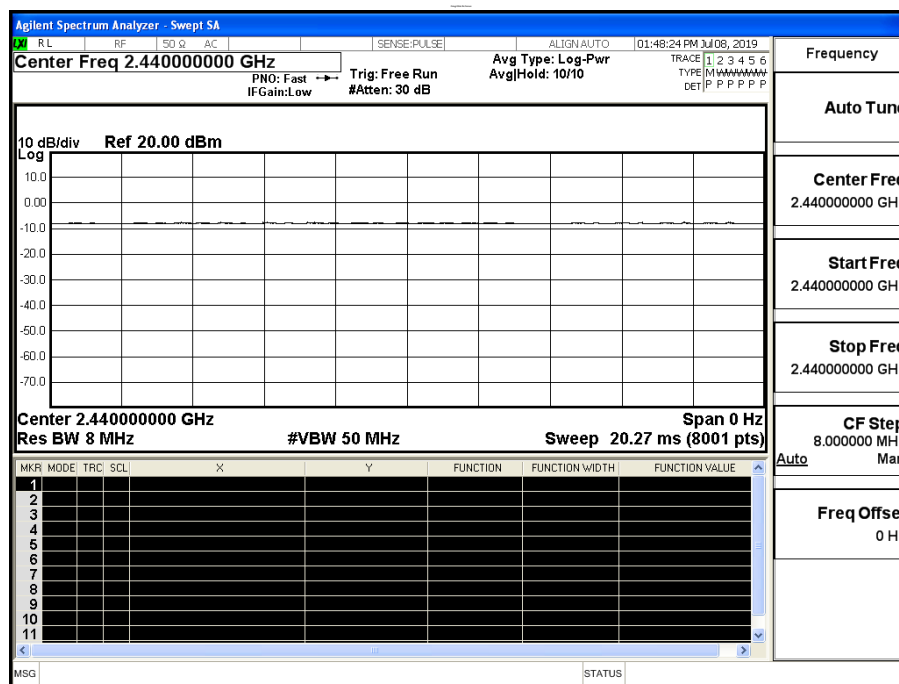
Test Model: M-TC0001

Environmental Conditions

Temperature:	24.1 ° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	JERRY.ZENG
Supervised by:	Wang.Chuang

B.1 Duty Cycle

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

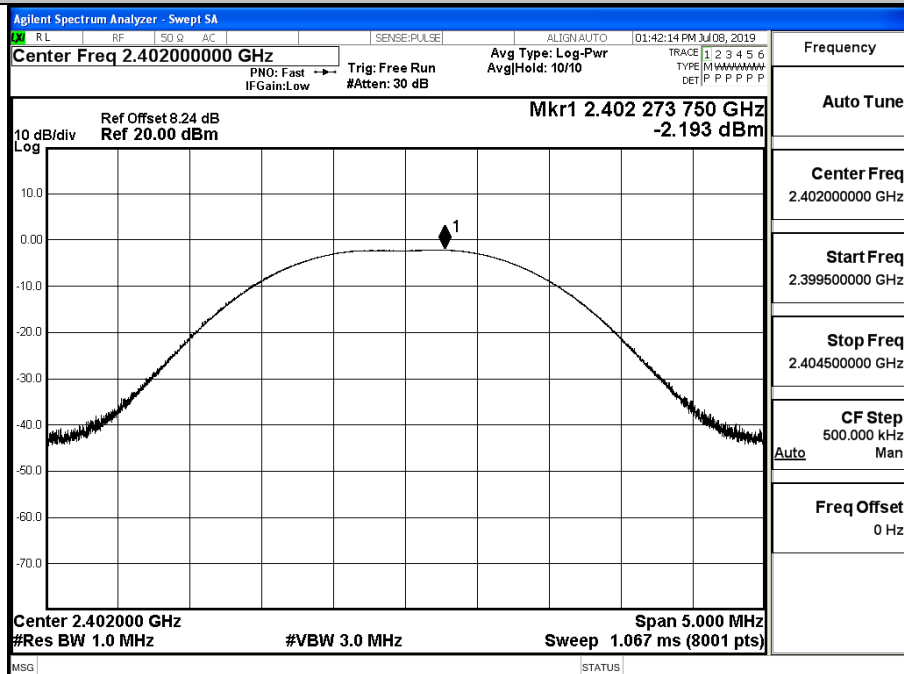


B.2 Maximum Conducted Peak Output Power

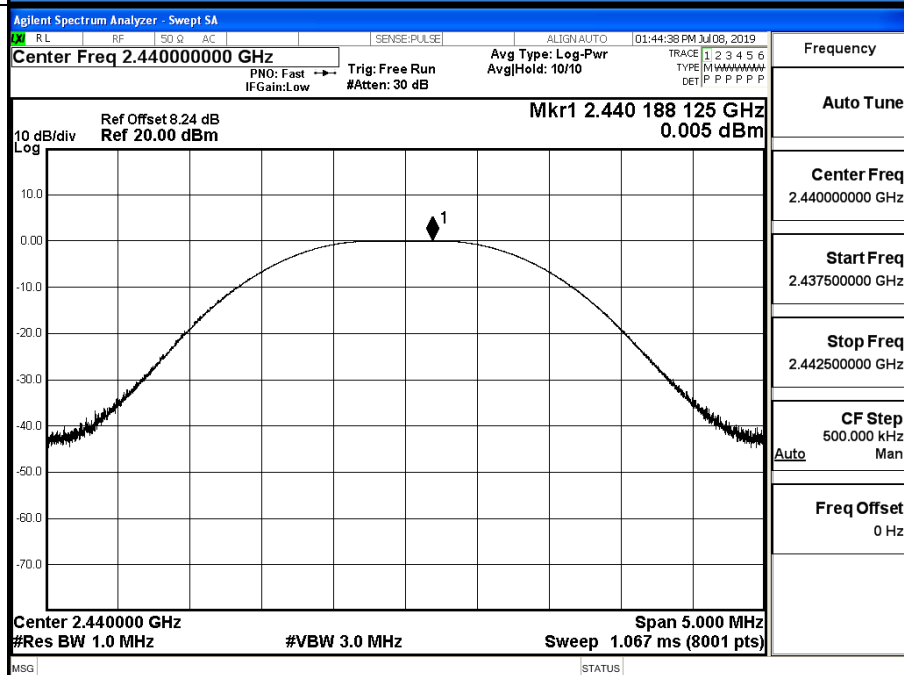
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.193	30	PASS
BT LE	MCH	0.005	30	PASS
BT LE	HCH	-0.009	30	PASS

Test Graphs

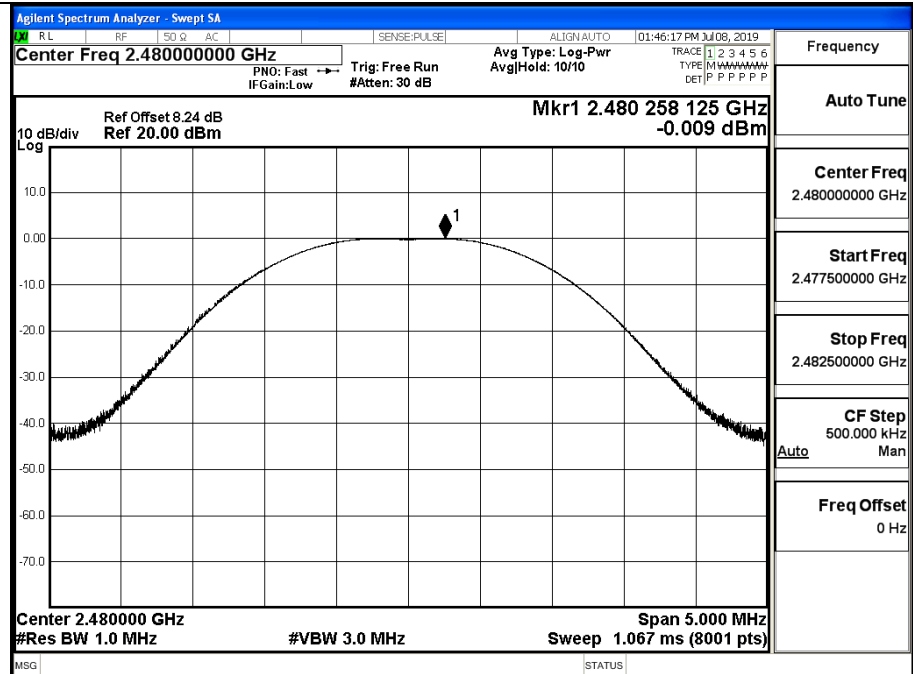
LCH



MCH



HCH

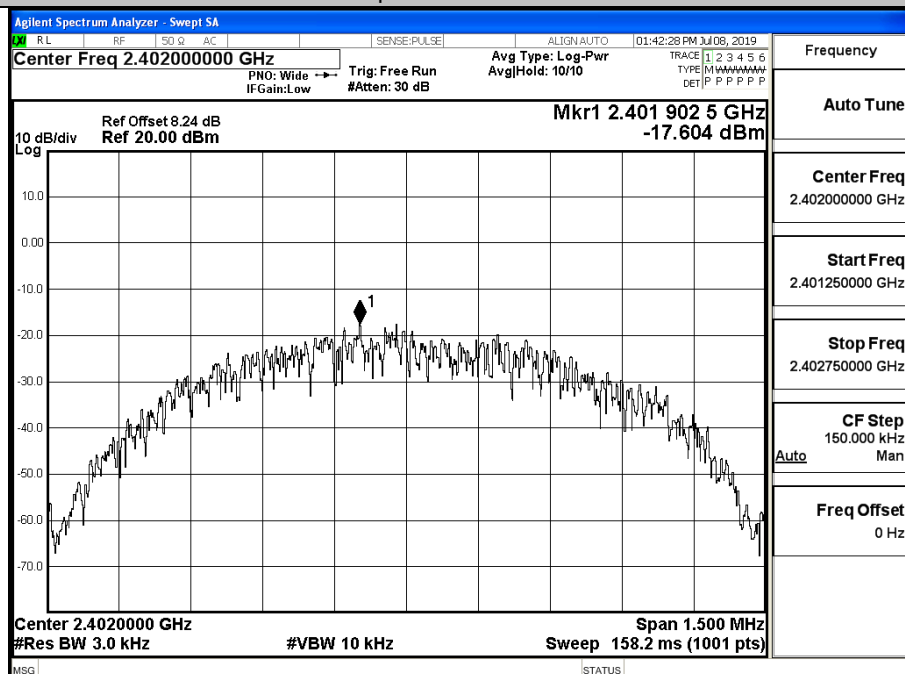


B.3 Maximum Power Spectral Density

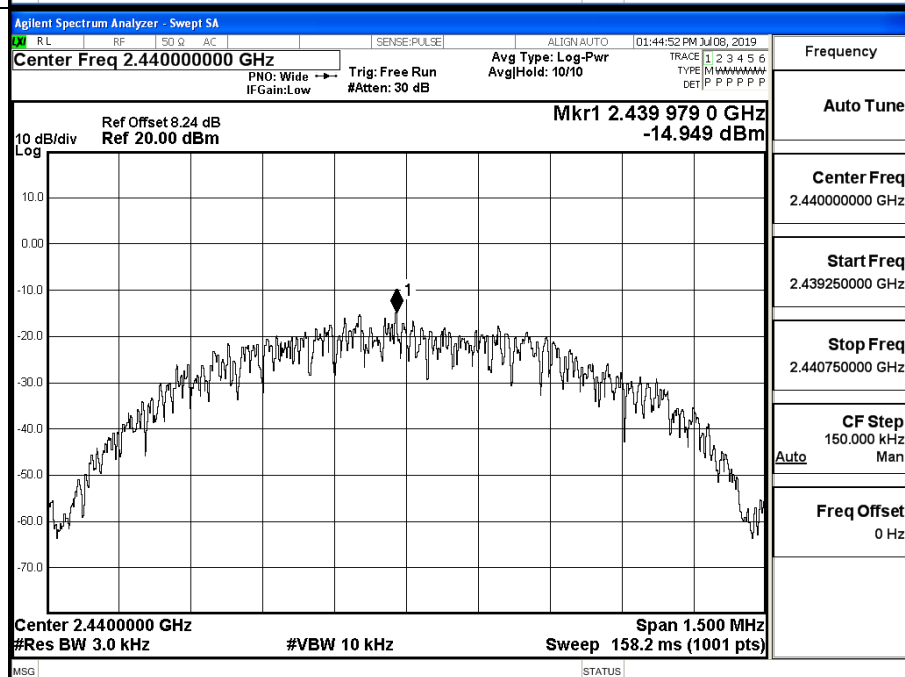
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-17.604	8	PASS
BT LE	MCH	-14.949	8	PASS
BT LE	HCH	-14.989	8	PASS

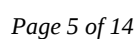
Test Graphs

LCH



MCH



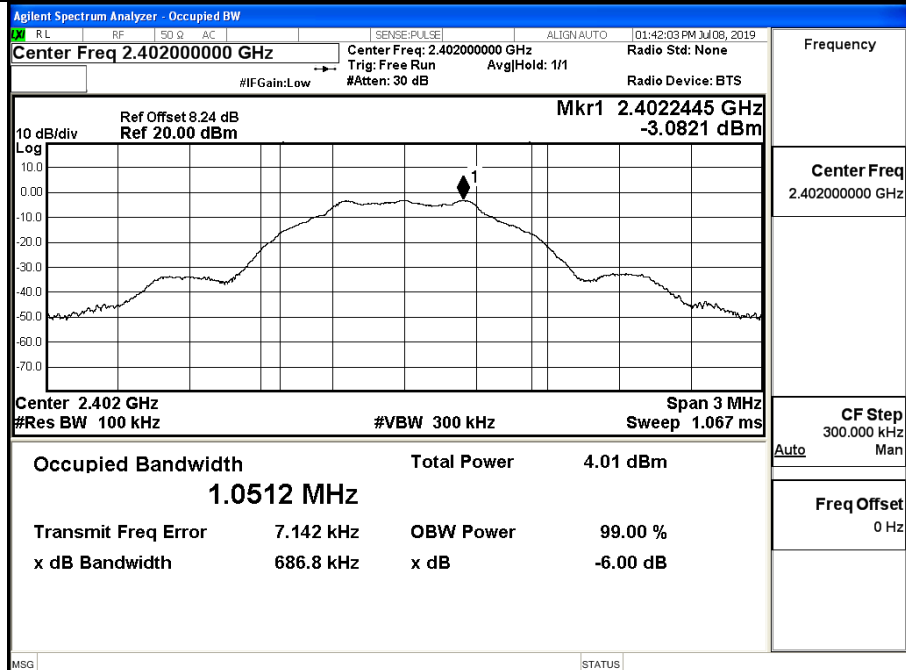


B.4 6dB Bandwidth

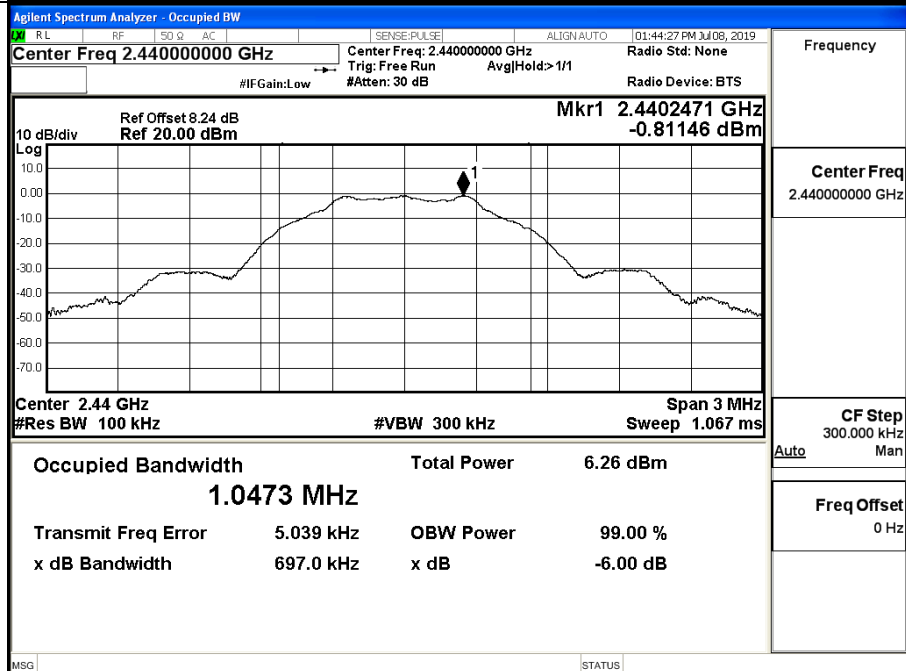
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6868	≥ 0.5	PASS
BT LE	MCH	0.6970	≥ 0.5	PASS
BT LE	HCH	0.6820	≥ 0.5	PASS

Test Graphs

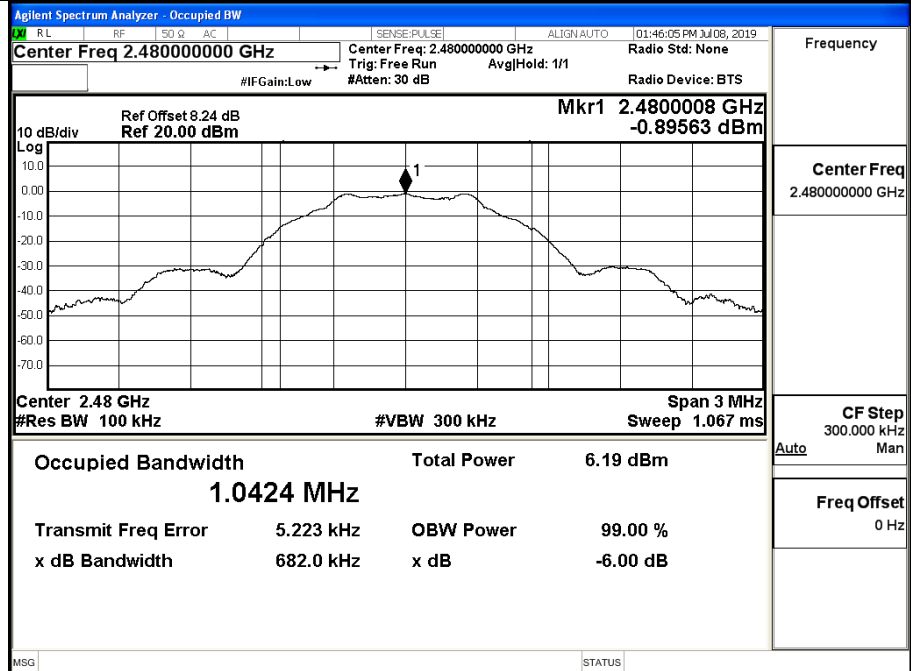
LCH



MCH

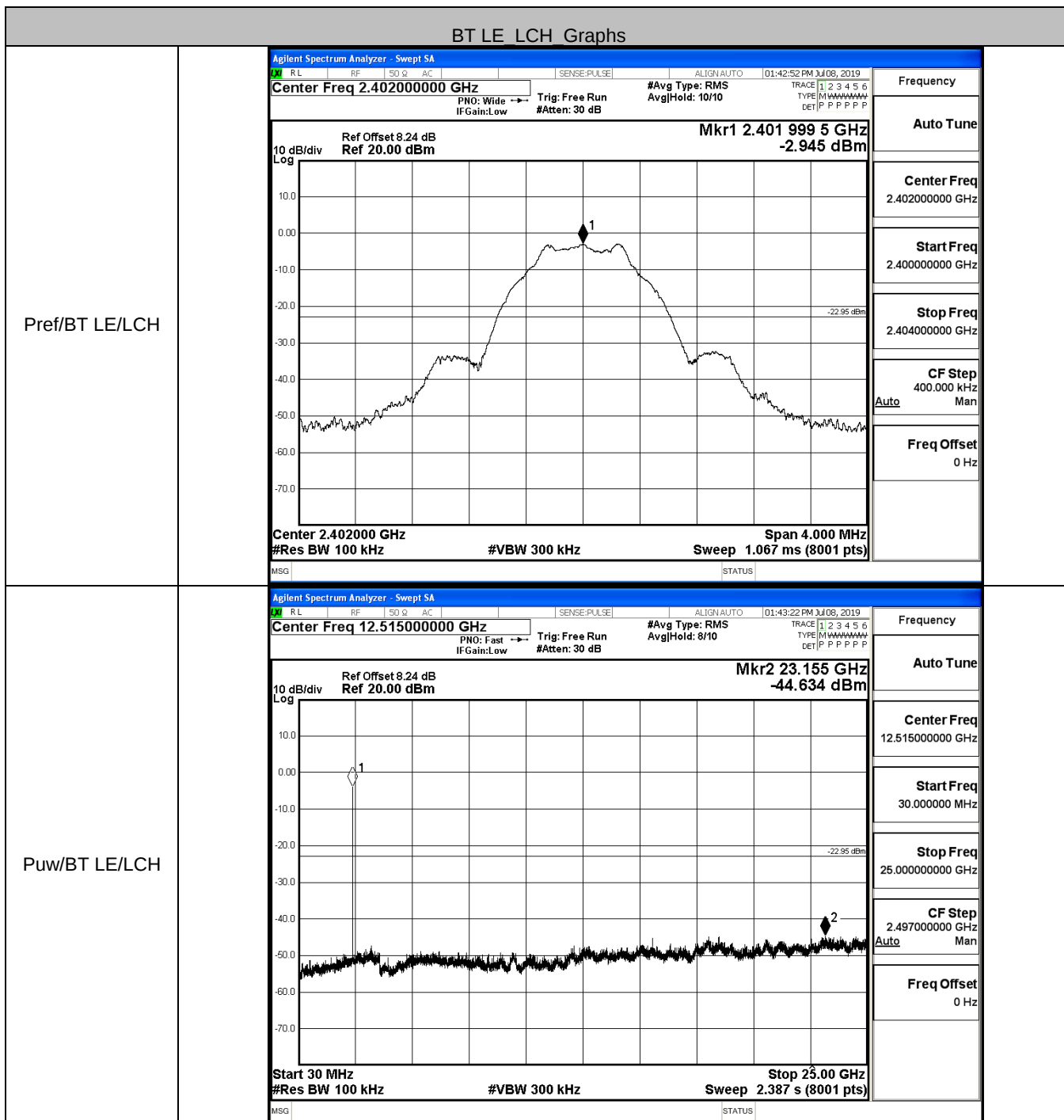


HCH



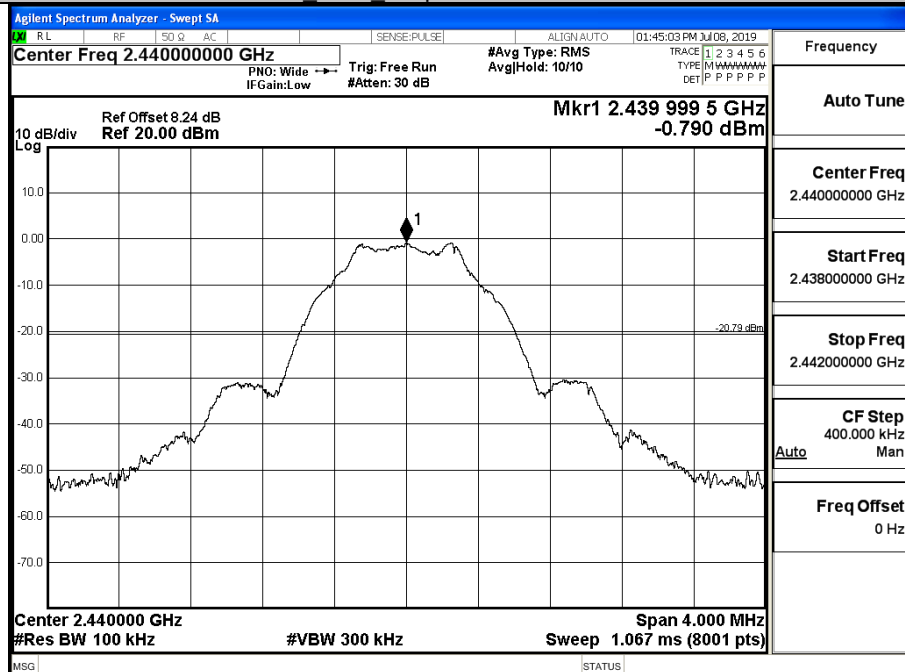
B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.945	-44.634	-22.945	PASS
BT LE	MCH	-0.79	-43.689	-20.790	PASS
BT LE	HCH	-0.908	-44.238	-20.908	PASS

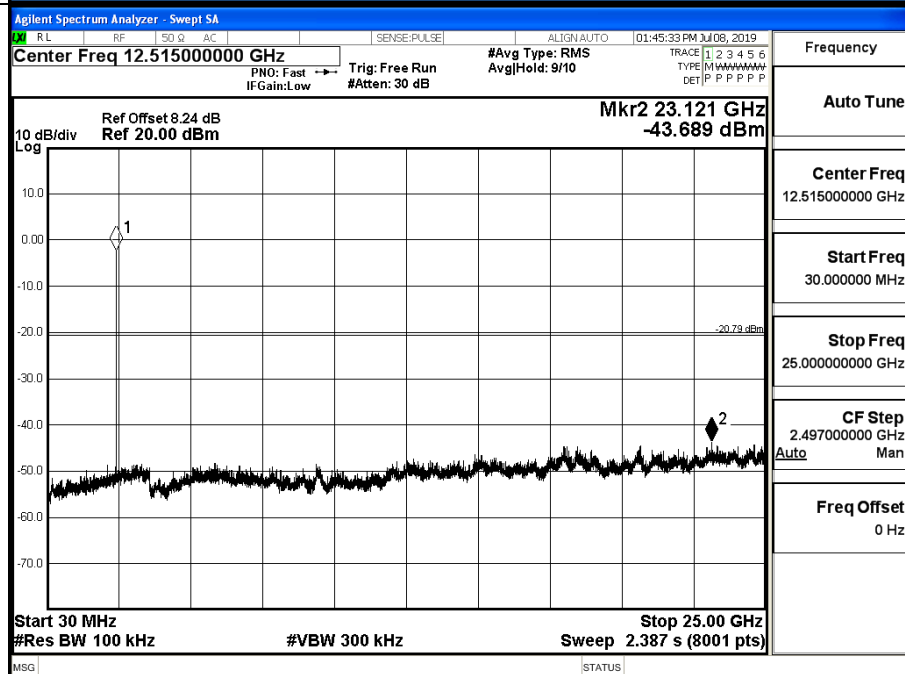


BT LE MCH Graphs

Pref/BT LE/MCH

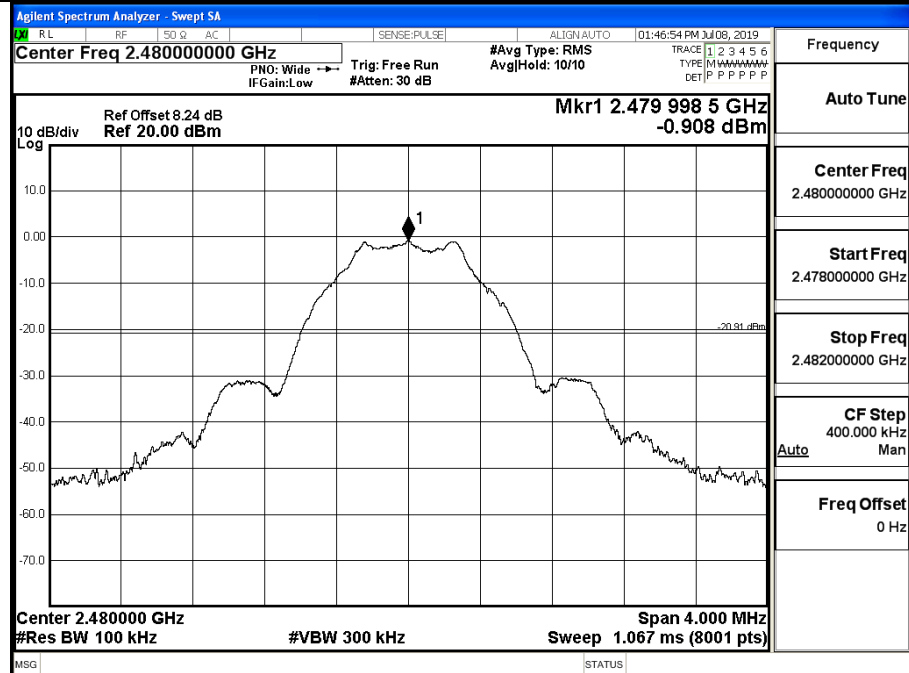


Puw/BT LE/MCH

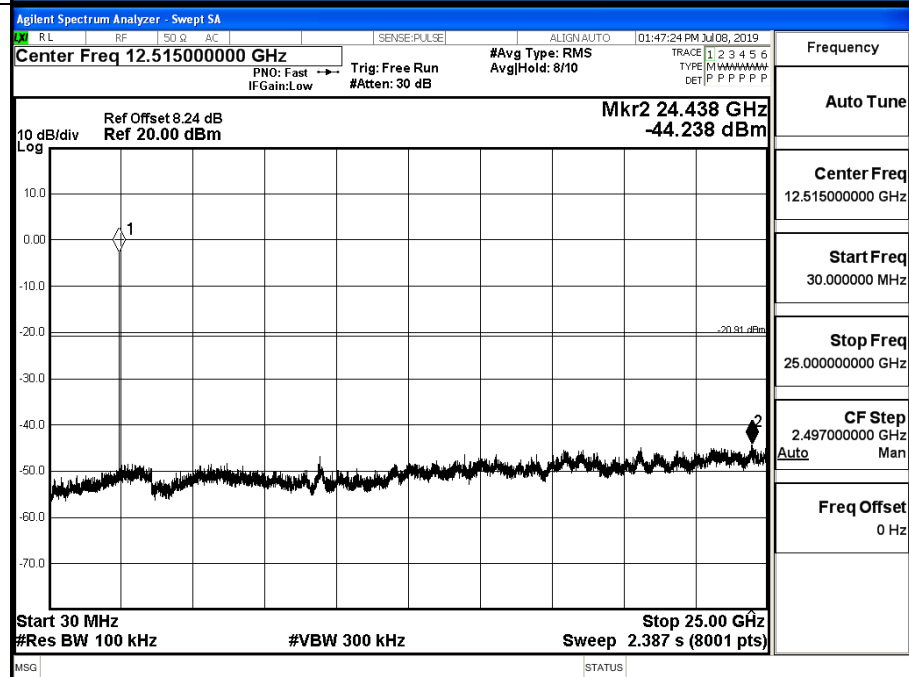


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

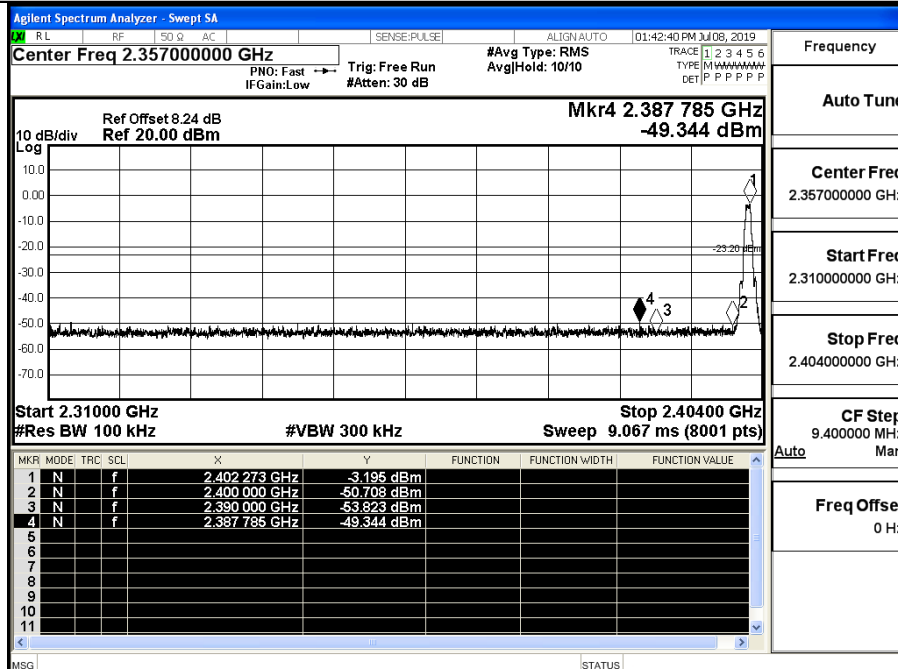


B.6 Band-edge for RF Conducted Emissions

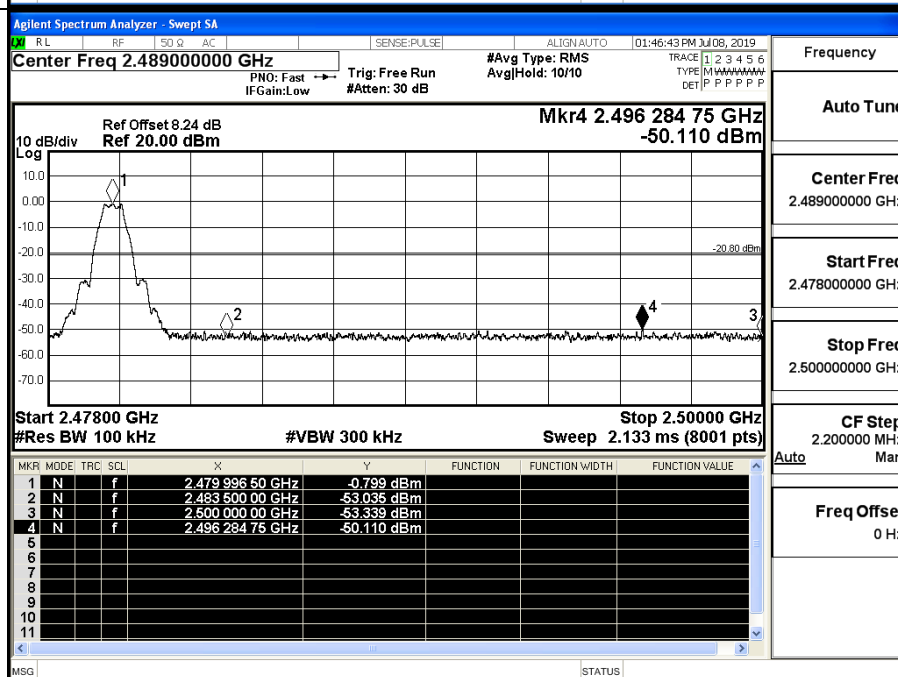
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.195	-49.344	-23.2	PASS
BT LE	HCH	-0.799	-50.110	-20.8	PASS

Test Graphs

LCH



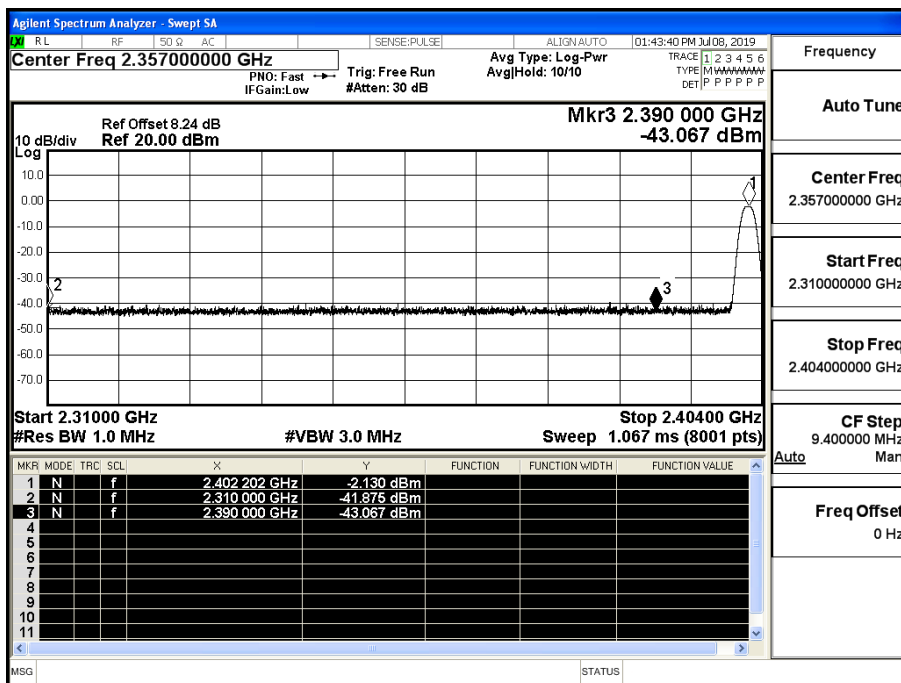
HCH



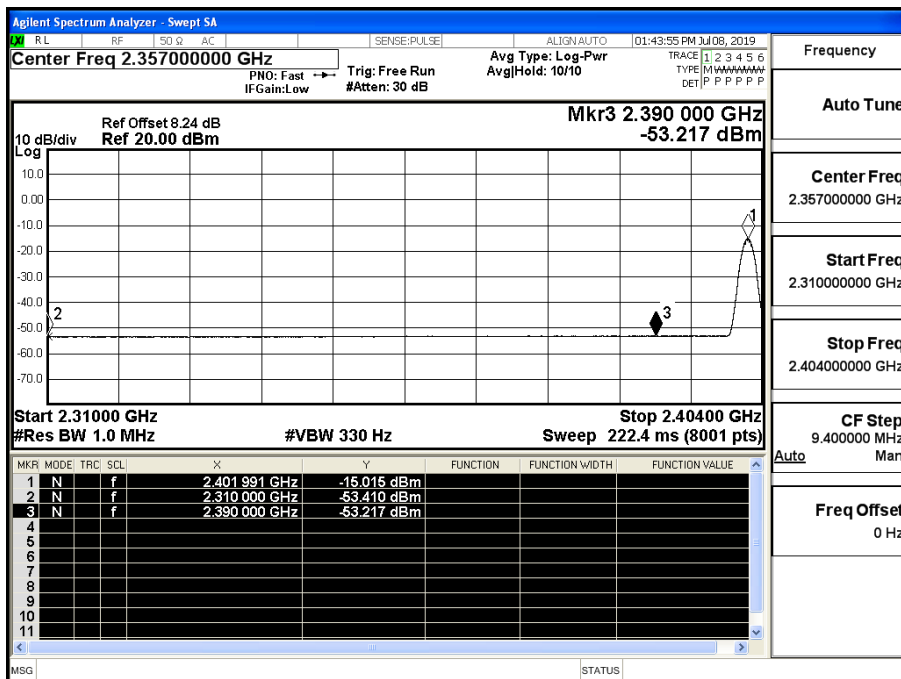
B.7 Restrict-band band-edge measurements

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	-41.88	2.0	0	55.38	PEAK	74	PASS
		Ant1	2310.0	-53.41	2.0	0	43.85	AV	54	PASS
		Ant1	2390.0	-43.07	2.0	0	54.19	PEAK	74	PASS
		Ant1	2390.0	-53.22	2.0	0	44.04	AV	54	PASS
	2480	Ant1	2483.5	-43.33	2.0	0	53.93	PEAK	74	PASS
		Ant1	2483.5	-52.89	2.0	0	44.37	AV	54	PASS
		Ant1	2500.0	-42.99	2.0	0	54.26	PEAK	74	PASS
		Ant1	2500.0	-52.84	2.0	0	44.42	AV	54	PASS

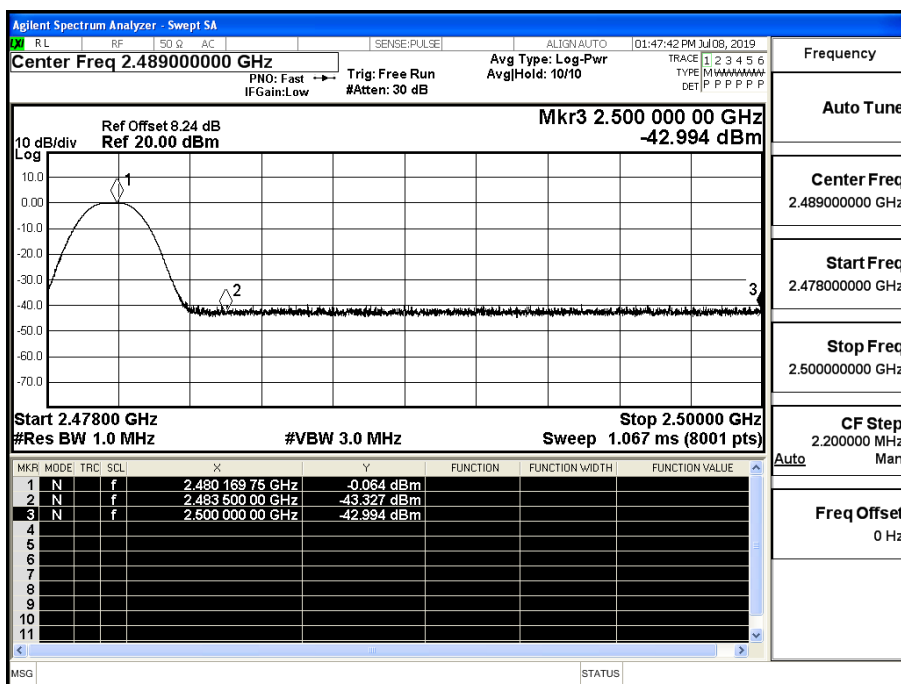
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

