

Appendix A

RF Test Data for BT LE V5.0 (Conducted Measurement)

Product Name: Mibro Air

Trade Mark: **mibro**

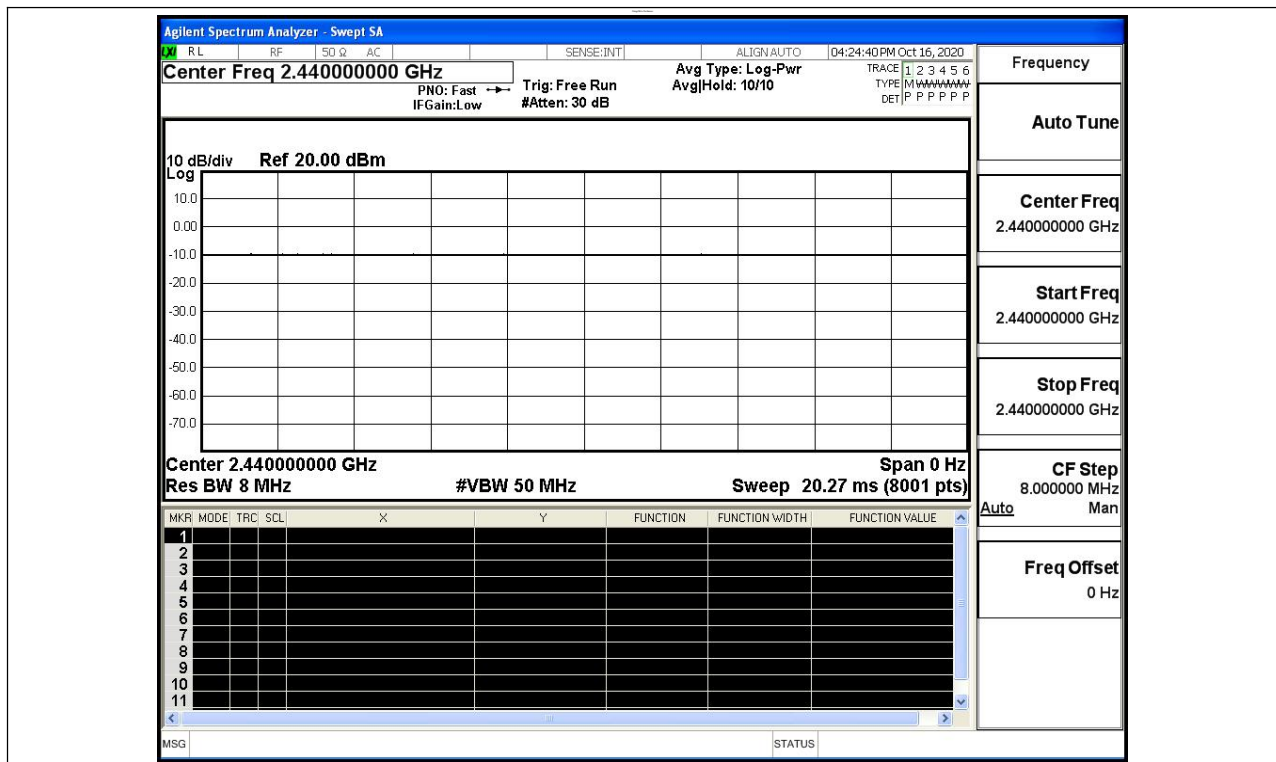
Test Model: XPAW001

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Ken He
Supervised by:	Li Huan

A.1 Duty Cycle

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

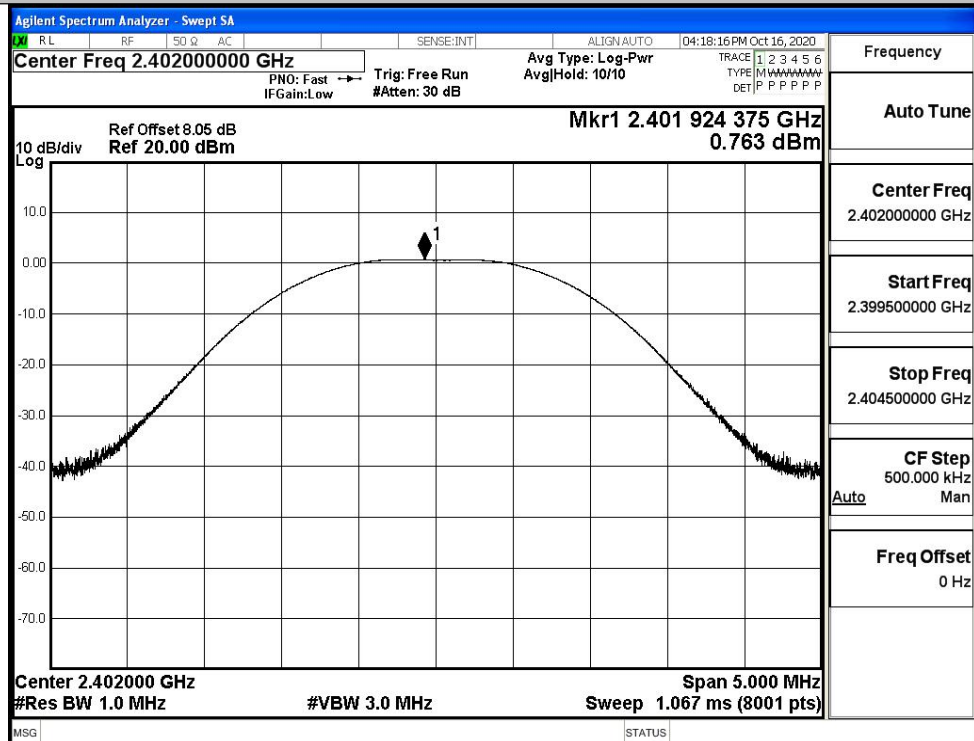


A.2 Maximum Conducted Peak Output Power

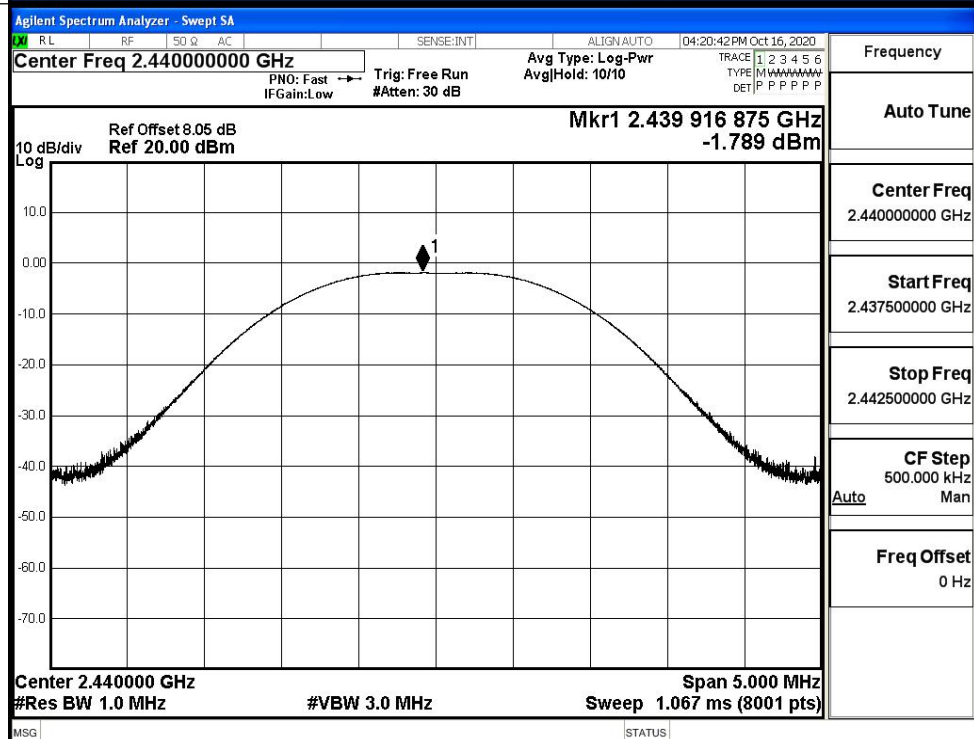
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.763	30	PASS
BT LE	MCH	-1.789	30	PASS
BT LE	HCH	-4.311	30	PASS

Test Graphs

LCH



MCH



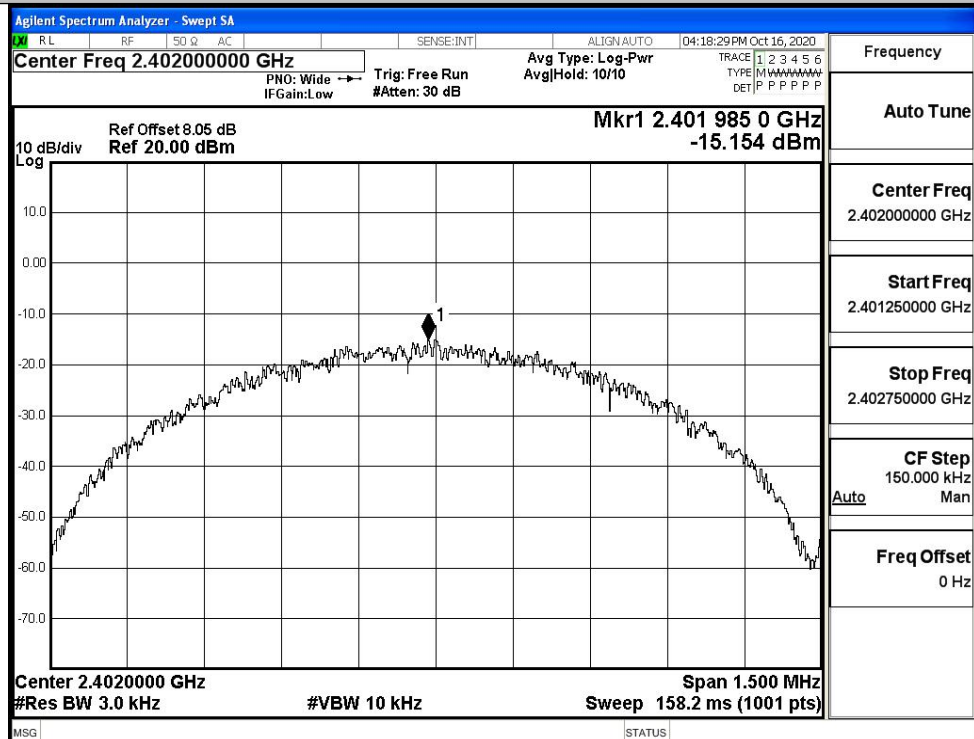


A.3 Maximum Power Spectral Density

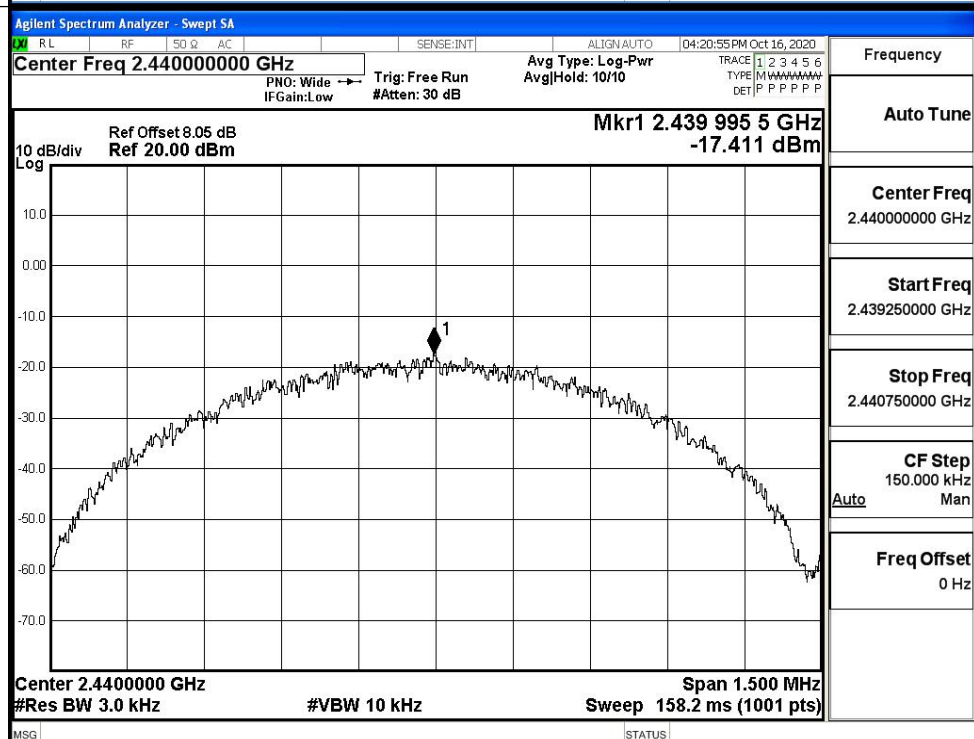
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-15.154	8	PASS
BT LE	MCH	-17.411	8	PASS
BT LE	HCH	-20.208	8	PASS

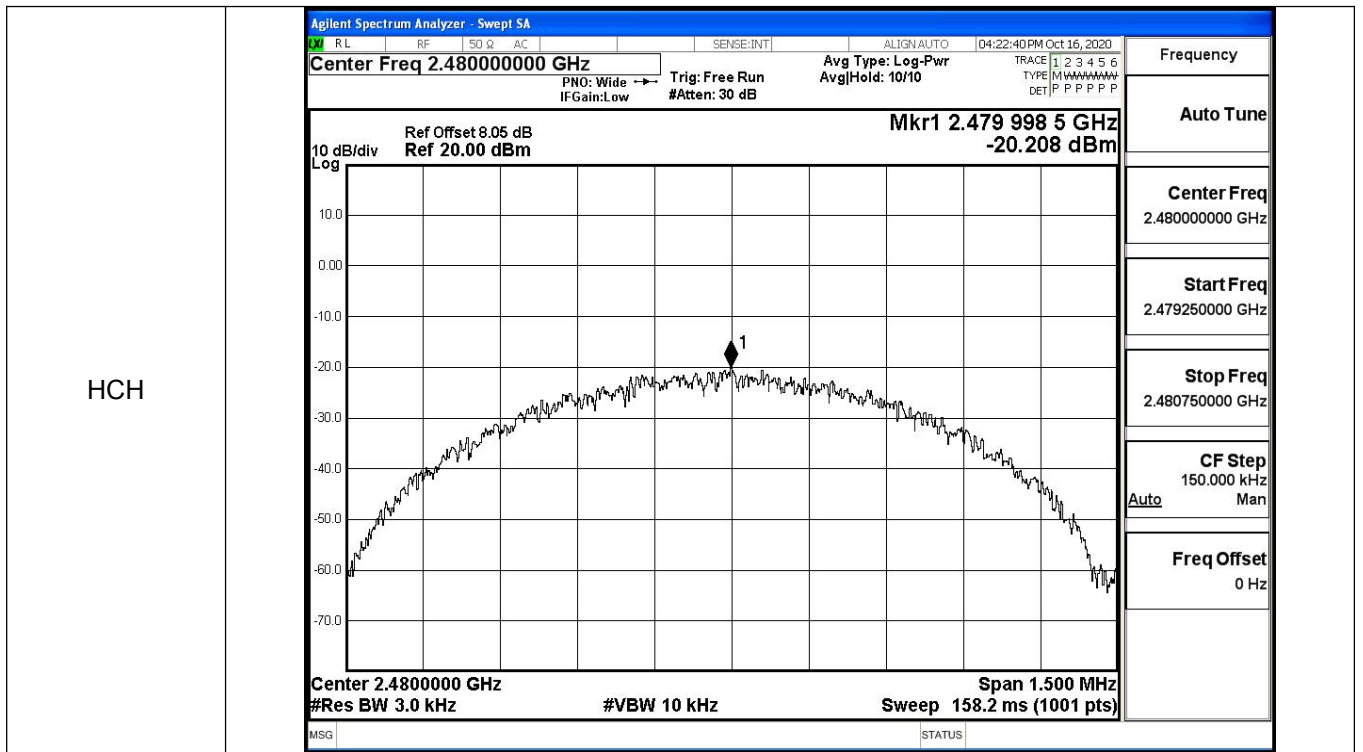
Test Graphs

LCH



MCH



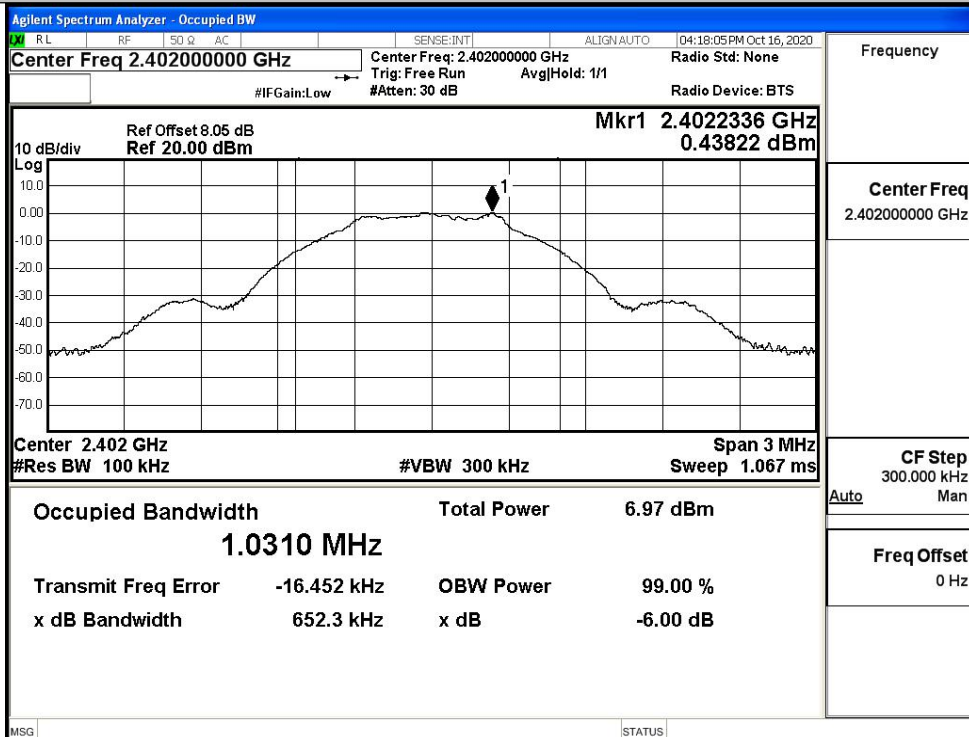


A.4 6dB Bandwidth

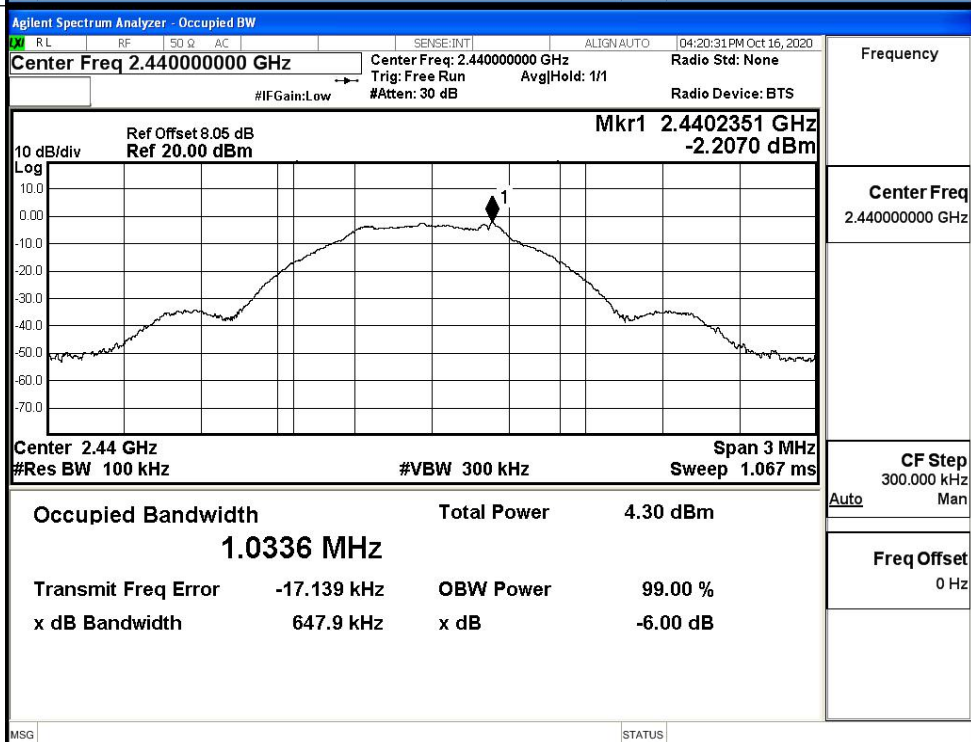
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6523	≥ 0.5	PASS
BT LE	MCH	0.6479	≥ 0.5	PASS
BT LE	HCH	0.6474	≥ 0.5	PASS

Test Graphs

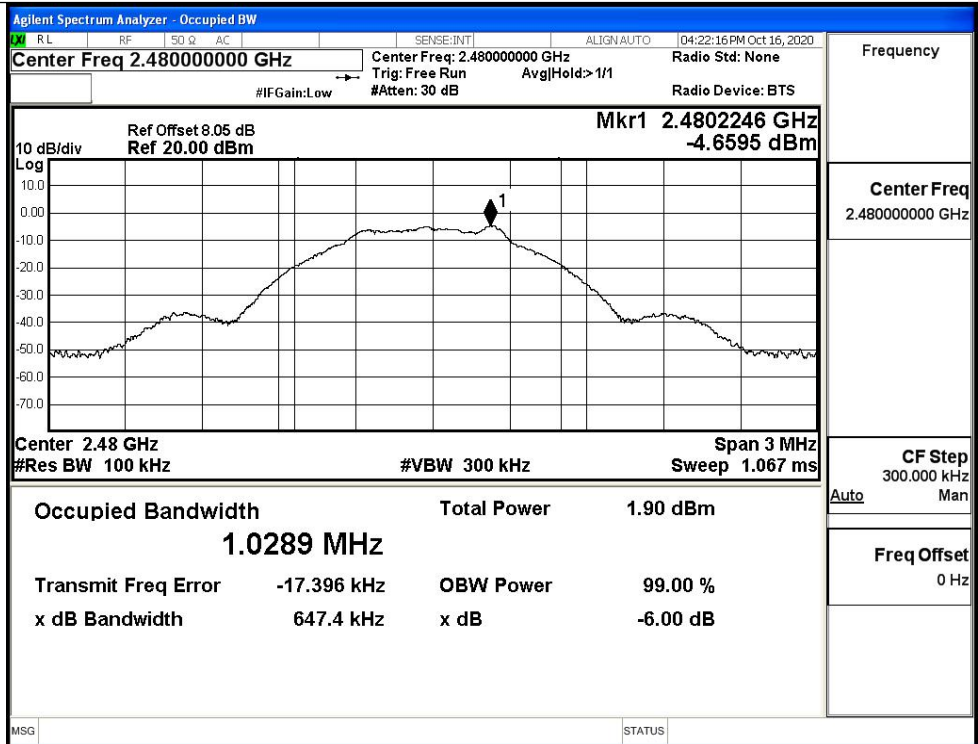
LCH



MCH



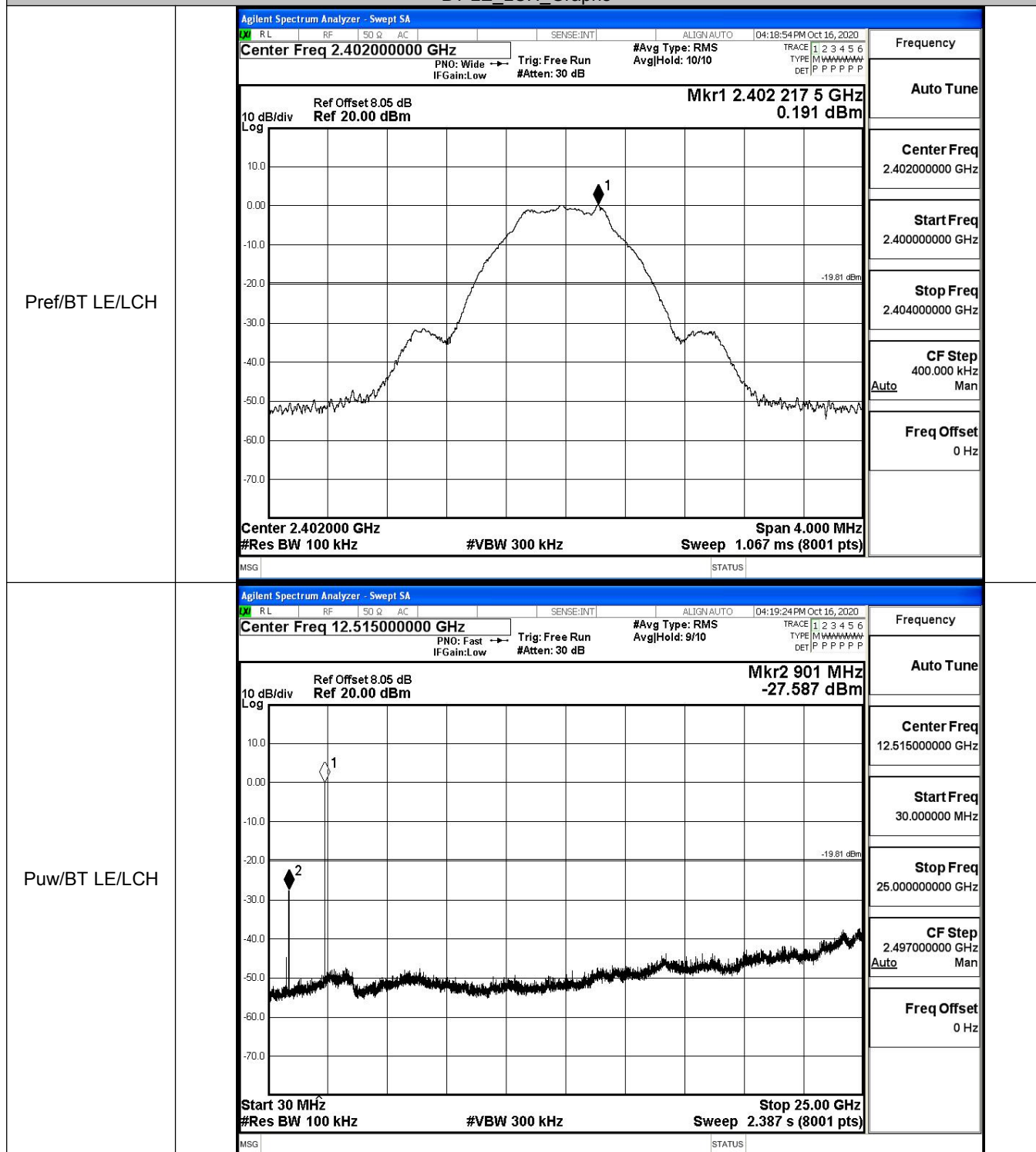
HCH



A.5 RF Conducted Spurious Emissions

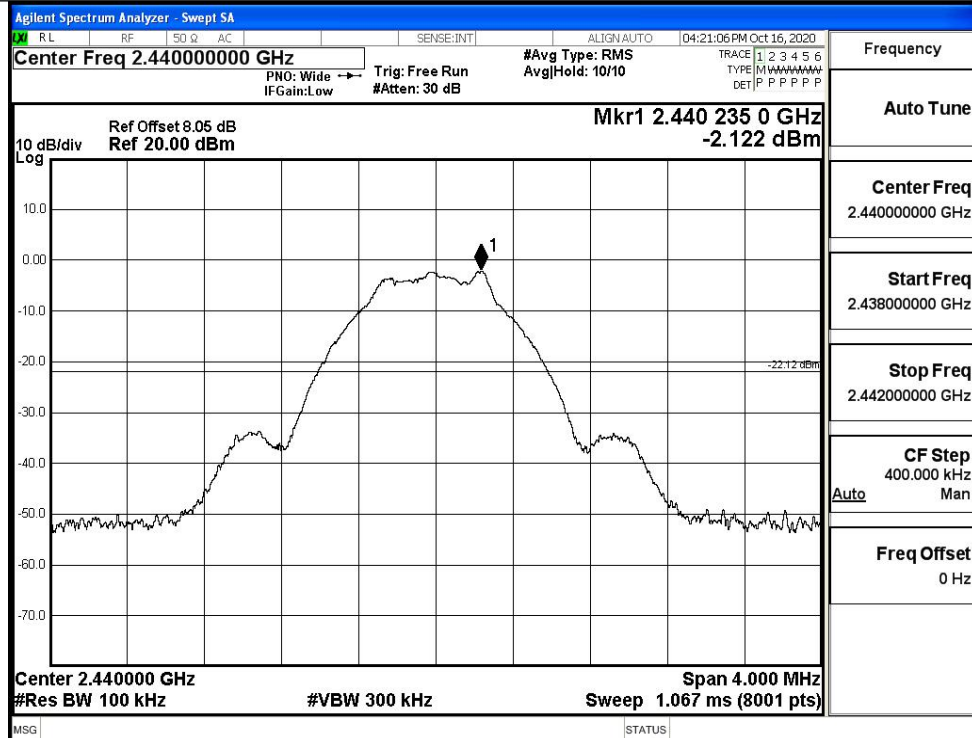
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.191	-27.587	-19.809	PASS
BT LE	MCH	-2.122	-37.222	-22.122	PASS
BT LE	HCH	-4.902	-37.104	-24.902	PASS

BT LE_LCH_Graphs

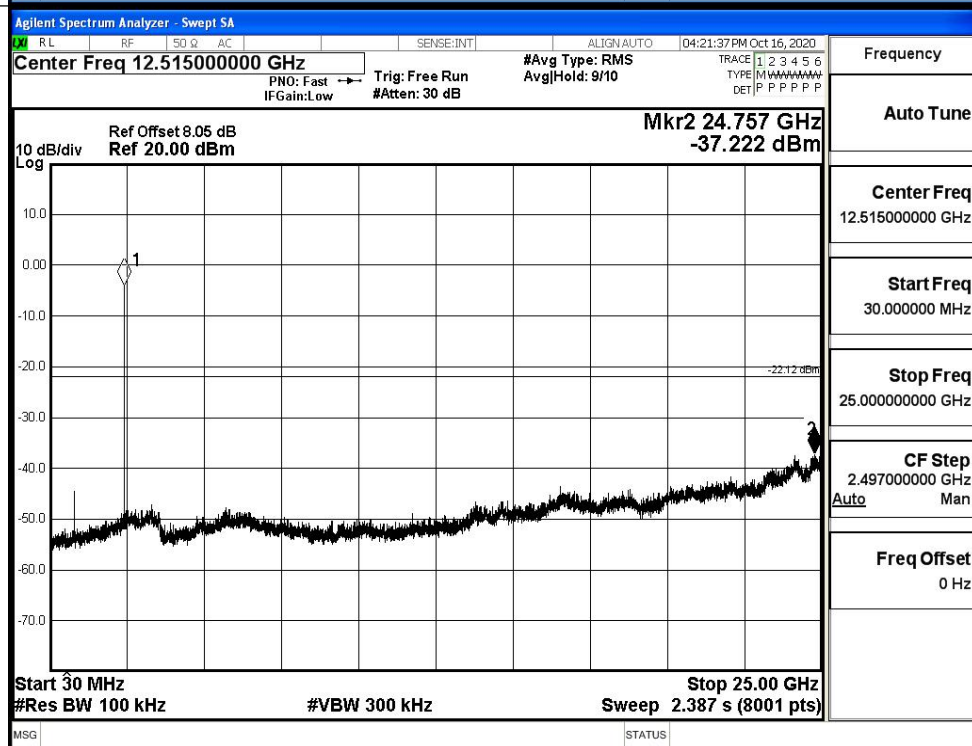


BT LE MCH Graphs

Pref/BT LE/MCH

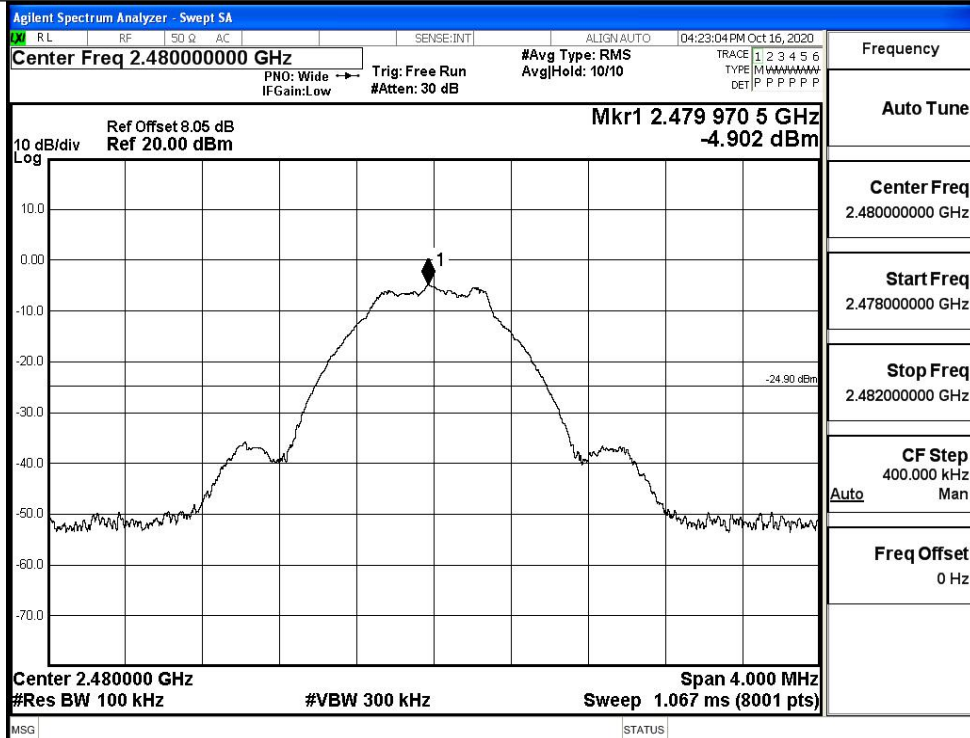


Puw/BT LE/MCH

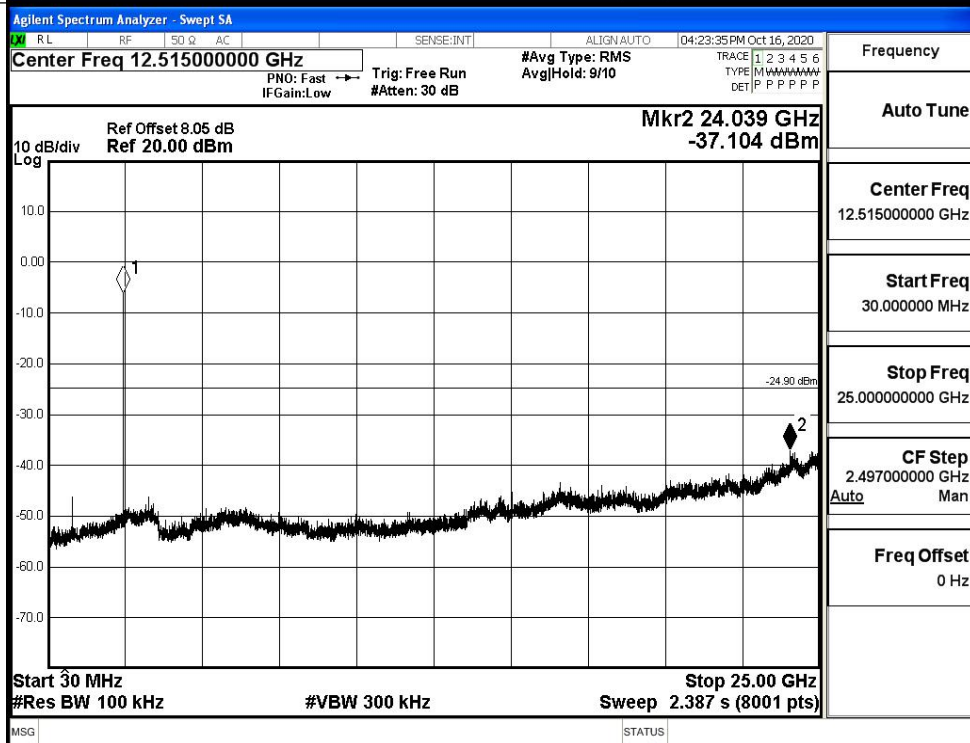


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

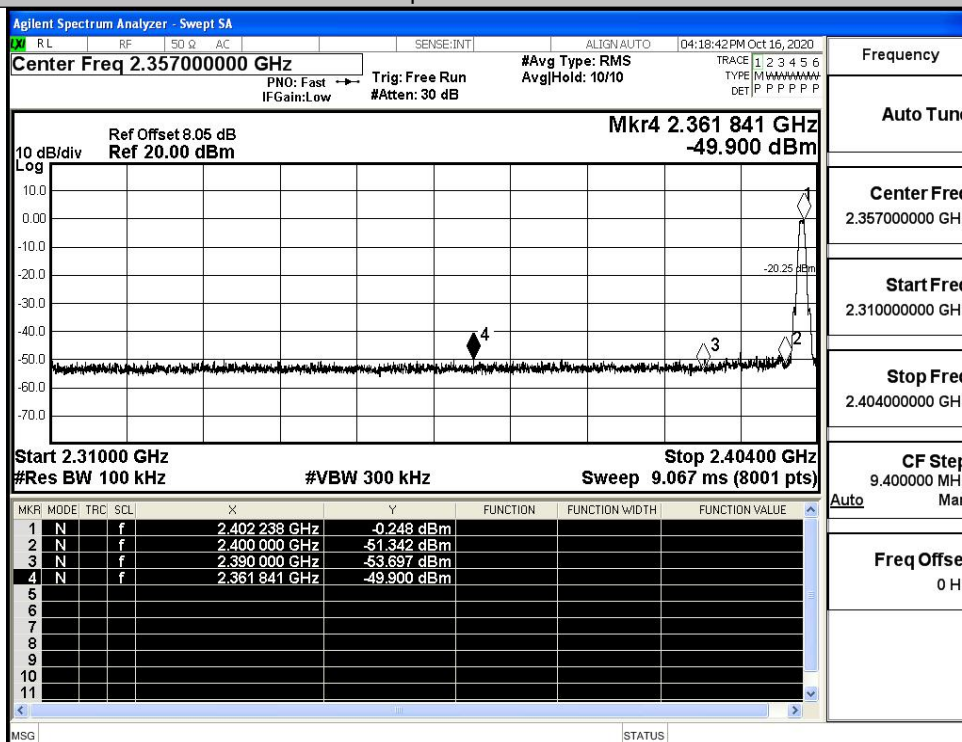


A.6 Band-edge for RF Conducted Emissions

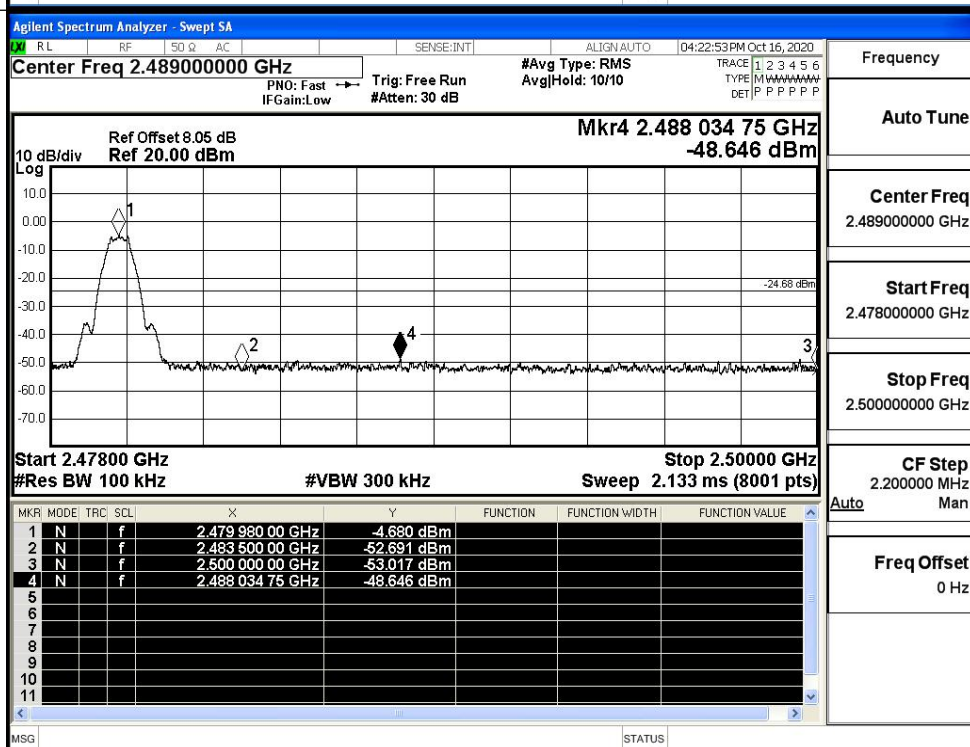
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.248	-49.900	-20.25	PASS
BT LE	HCH	-4.680	-48.646	-24.68	PASS

Test Graphs

LCH



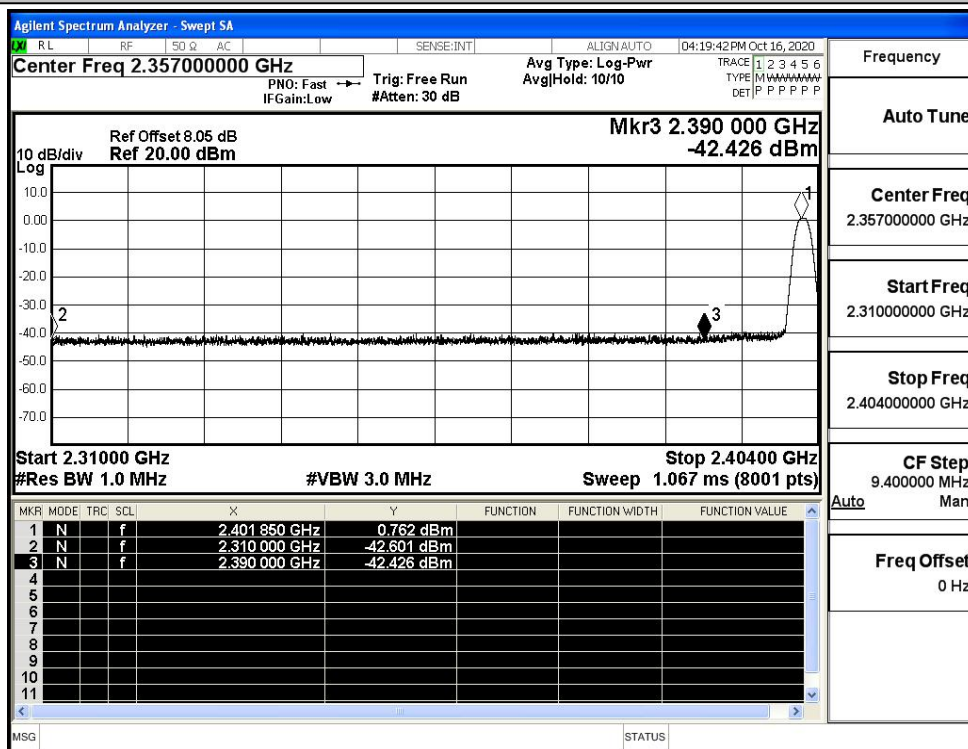
HCH



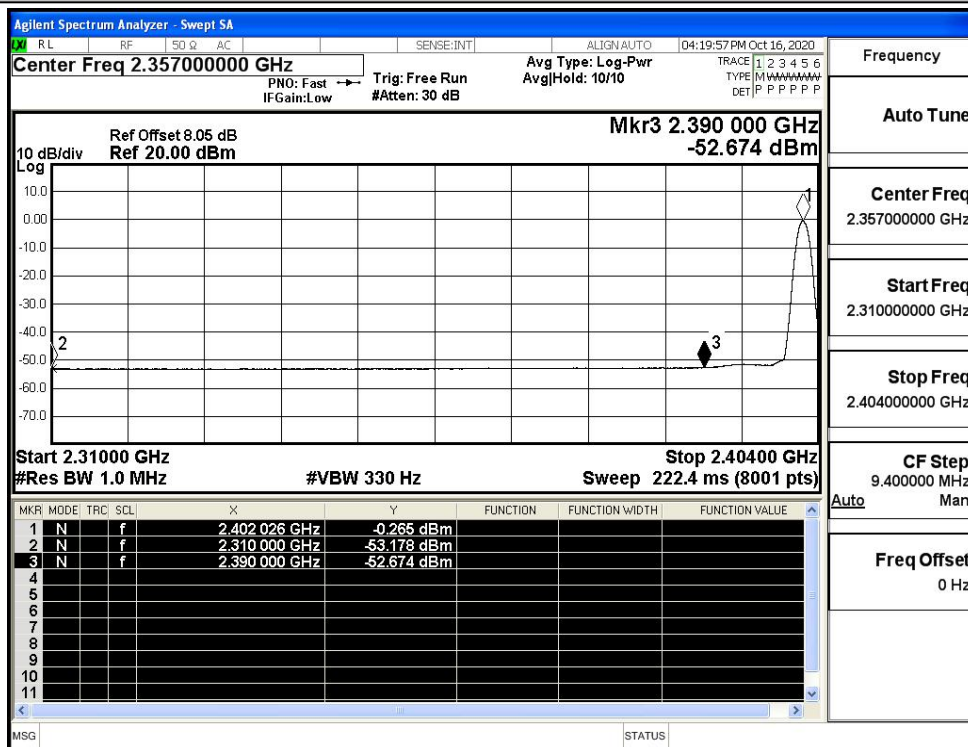
A.7 Restrict-band band-edge measurements

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	-42.60	3.0	0	54.63	PEAK	74	PASS
		Ant1	2310.0	-53.18	3.0	0	44.05	AV	54	PASS
		Ant1	2390.0	-42.43	3.0	0	54.80	PEAK	74	PASS
		Ant1	2390.0	-52.67	3.0	0	44.56	AV	54	PASS
	2480	Ant1	2483.5	-41.07	3.0	0	56.16	PEAK	74	PASS
		Ant1	2483.5	-51.85	3.0	0	45.38	AV	54	PASS
		Ant1	2500.0	-40.32	3.0	0	56.91	PEAK	74	PASS
		Ant1	2500.0	-52.21	3.0	0	45.02	AV	54	PASS

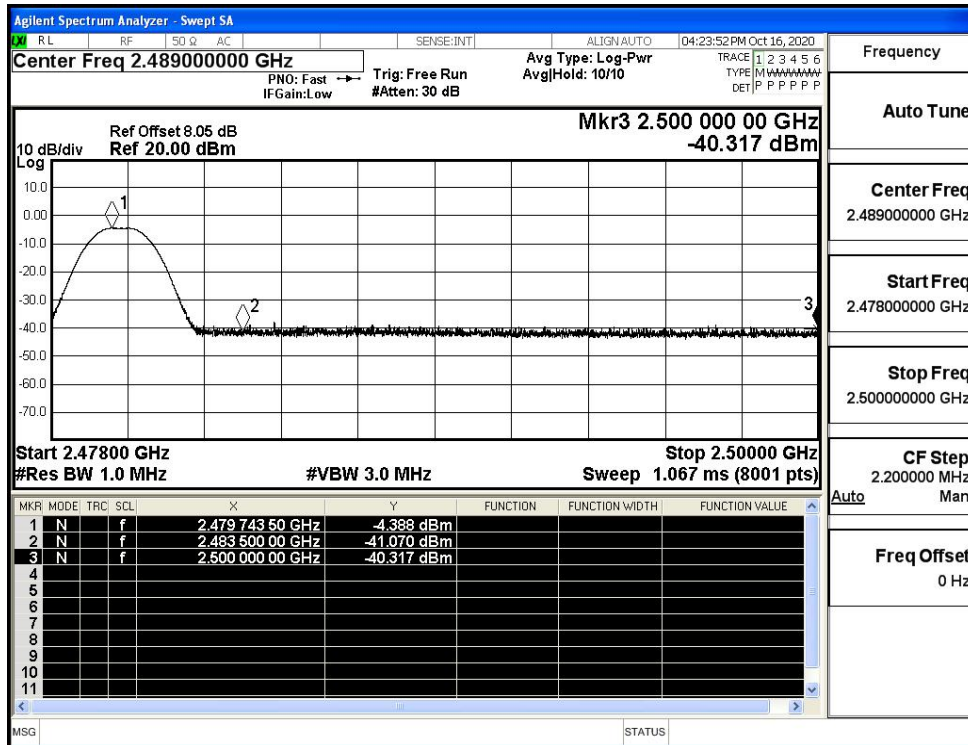
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

