

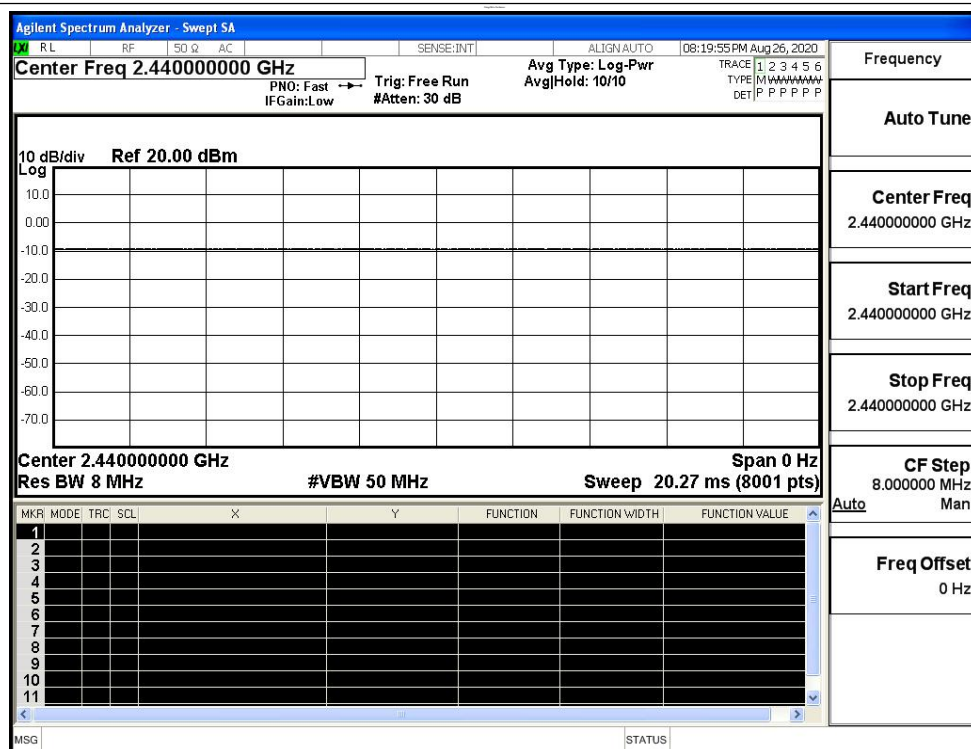
Appendix A
RF Test Data for BT V4.0(BDR/EDR) (Conducted Measurement)
Product Name: Aquarium Luminaire
Trade Mark: Fluval
Test Model: A13294

Environmental Conditions

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

A.1 Duty Cycle

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

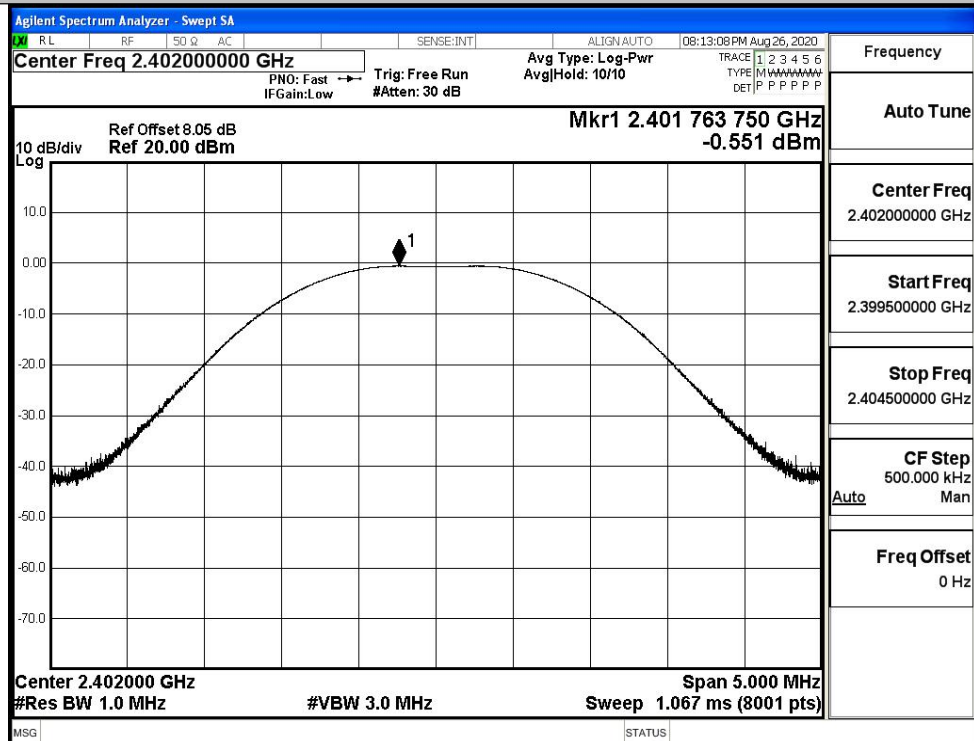


A.2 Maximum Conducted Peak Output Power

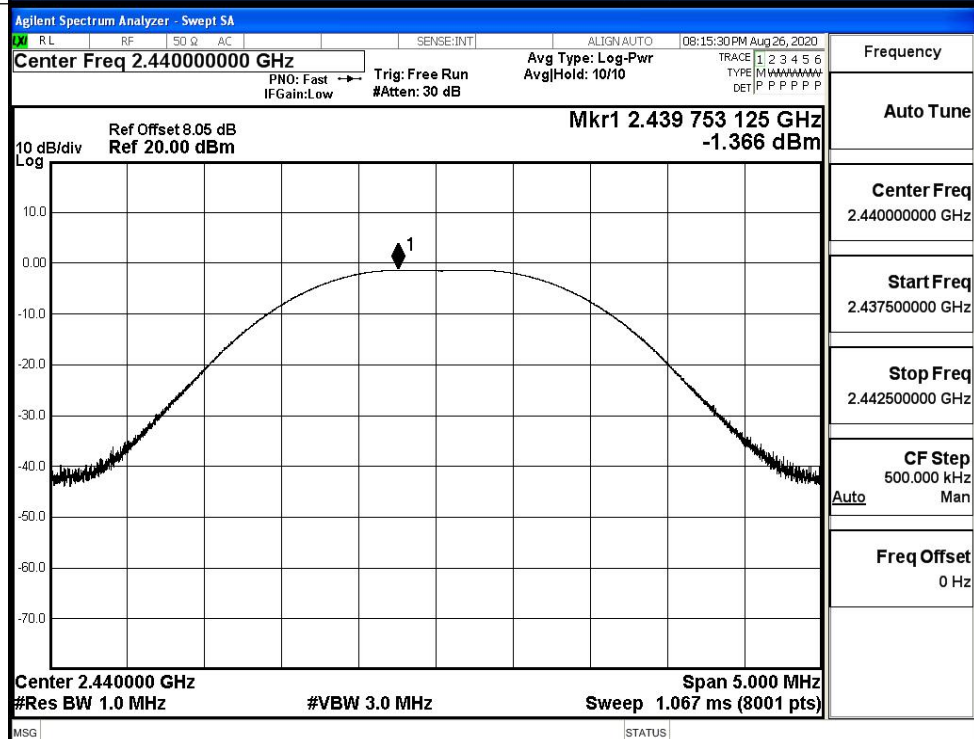
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.551	30	PASS
BT LE	MCH	-1.366	30	PASS
BT LE	HCH	-1.903	30	PASS

Test Graphs

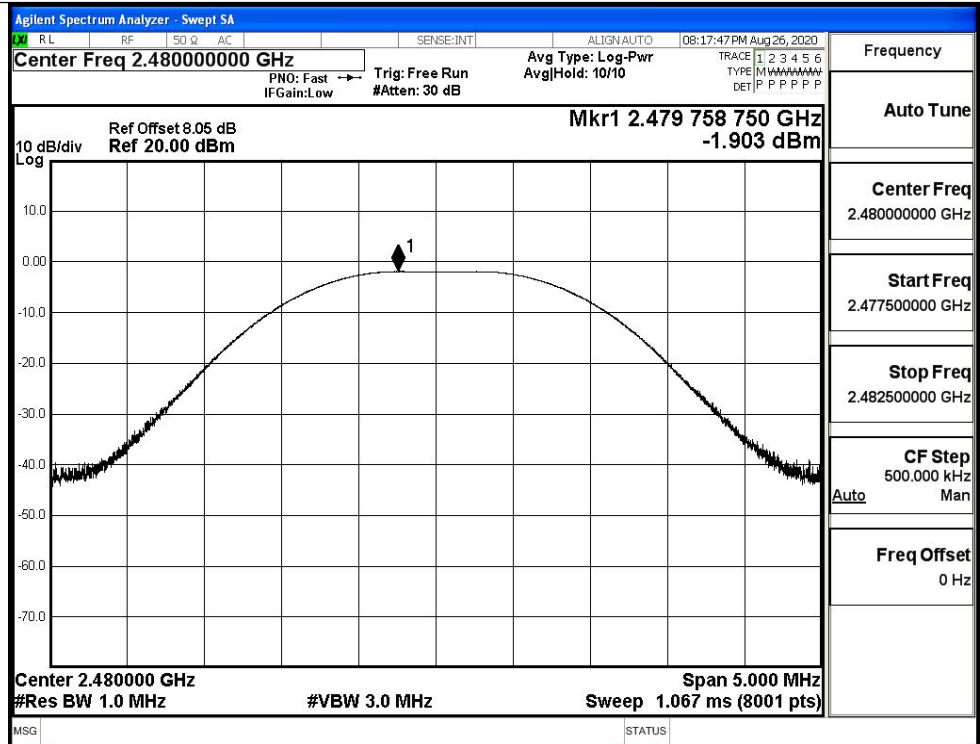
LCH



MCH



HCH

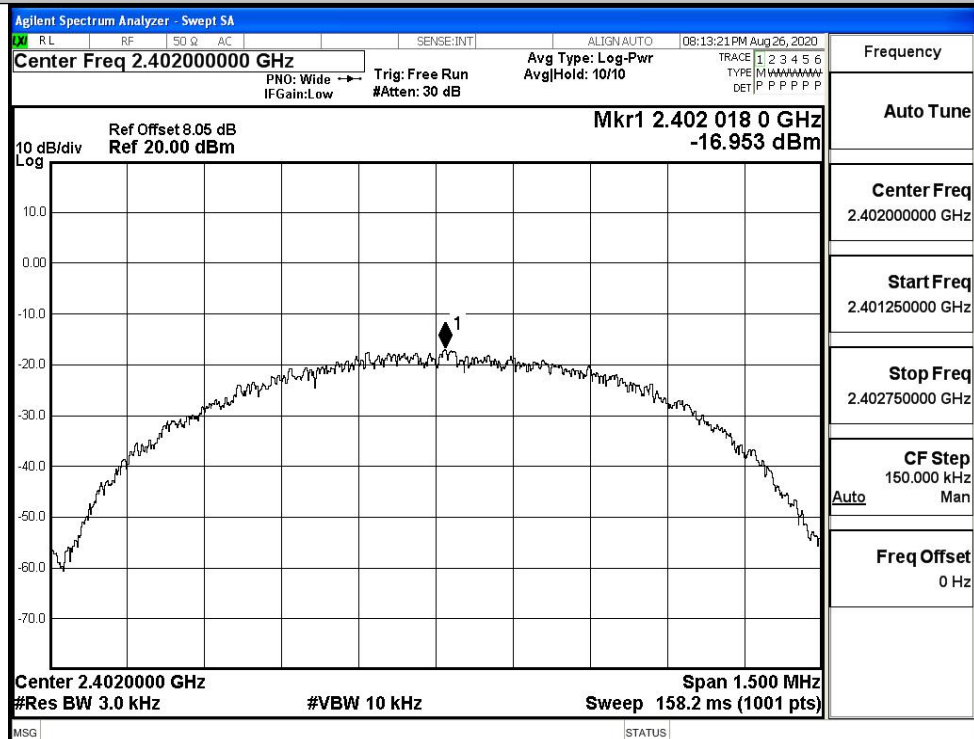


A.3 Maximum Power Spectral Density

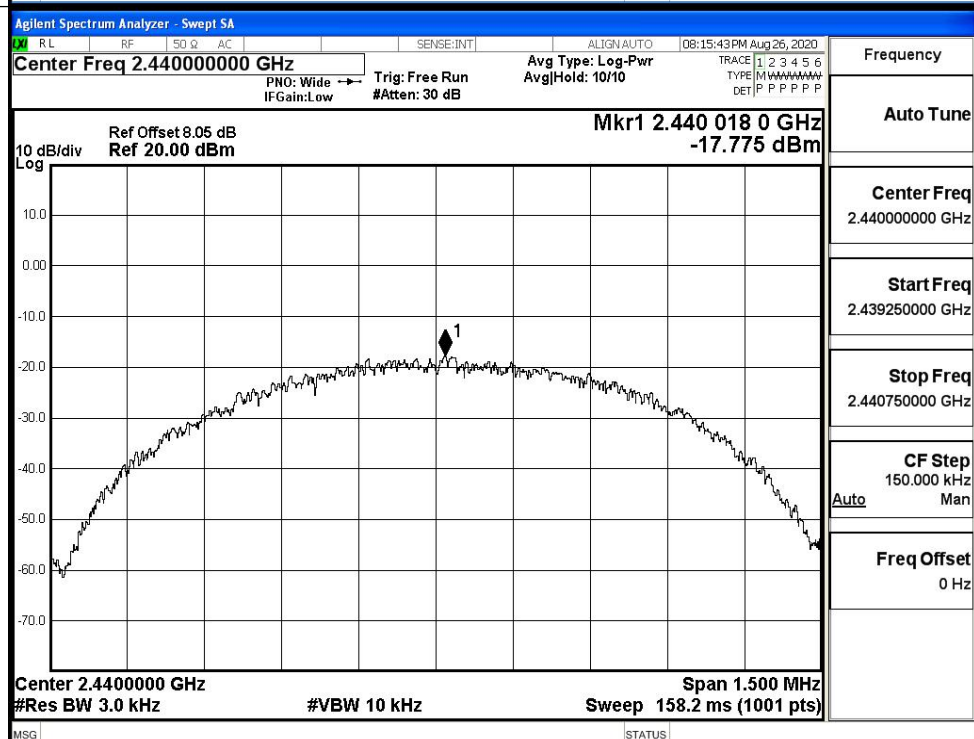
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-16.953	8	PASS
BT LE	MCH	-17.775	8	PASS
BT LE	HCH	-18.355	8	PASS

Test Graphs

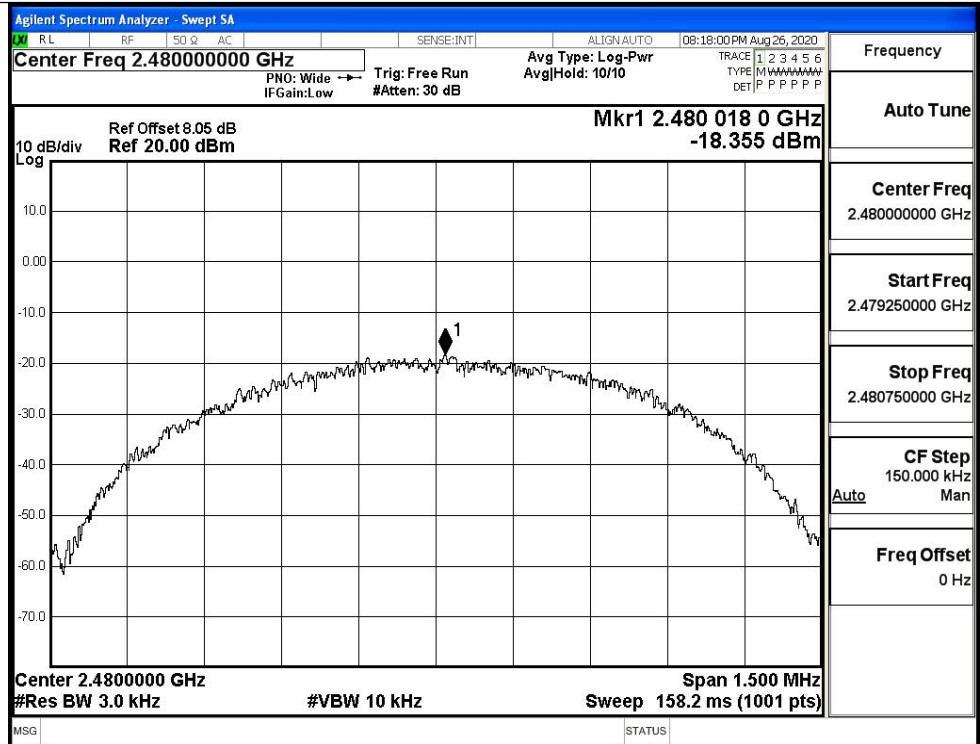
LCH



MCH



HCH

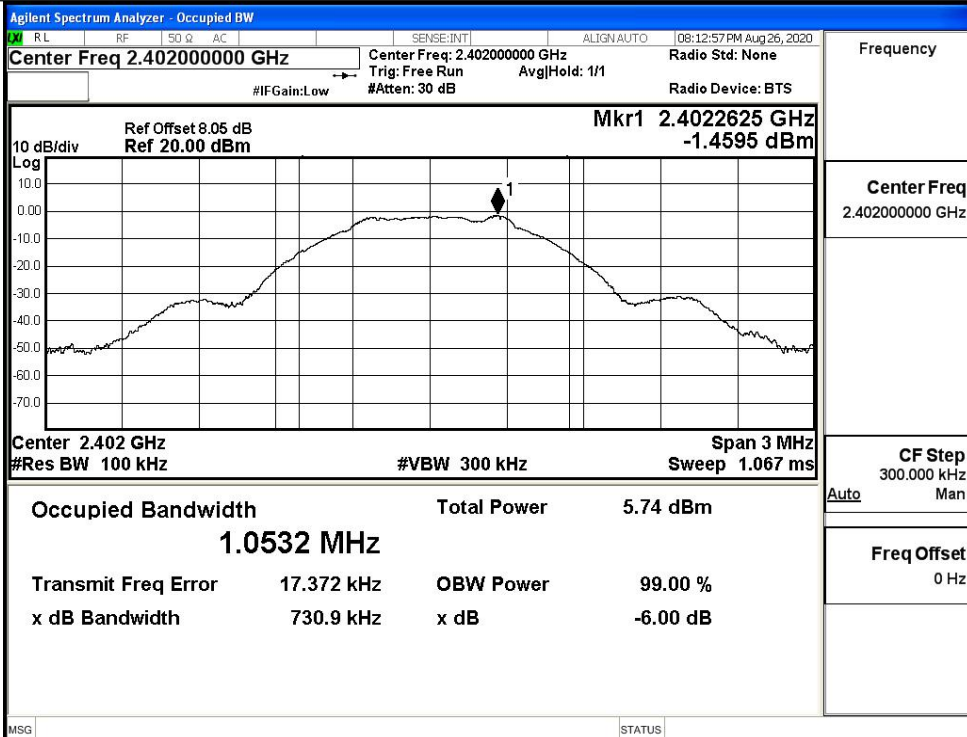


A.4 6dB Bandwidth

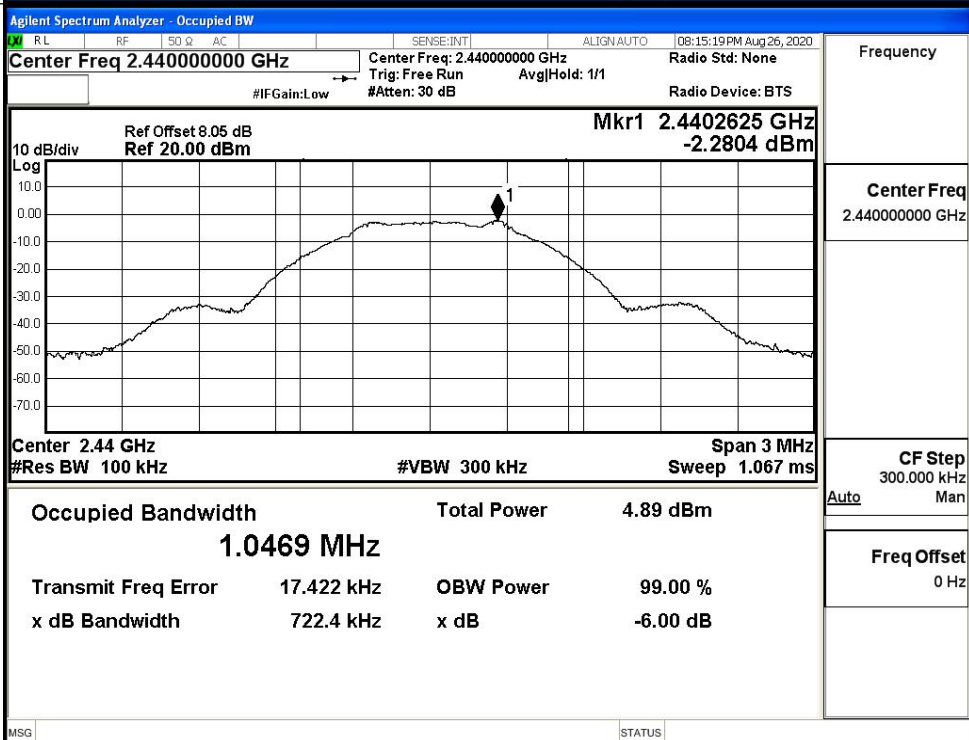
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7309	≥ 0.5	PASS
BT LE	MCH	0.7224	≥ 0.5	PASS
BT LE	HCH	0.7328	≥ 0.5	PASS

Test Graphs

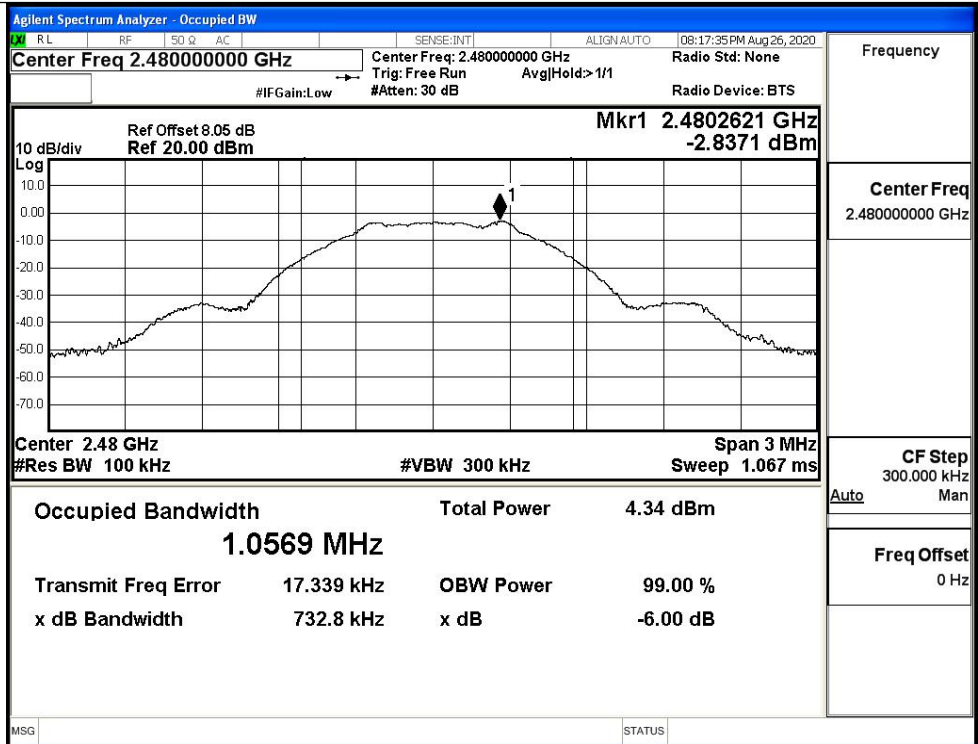
LCH



MCH



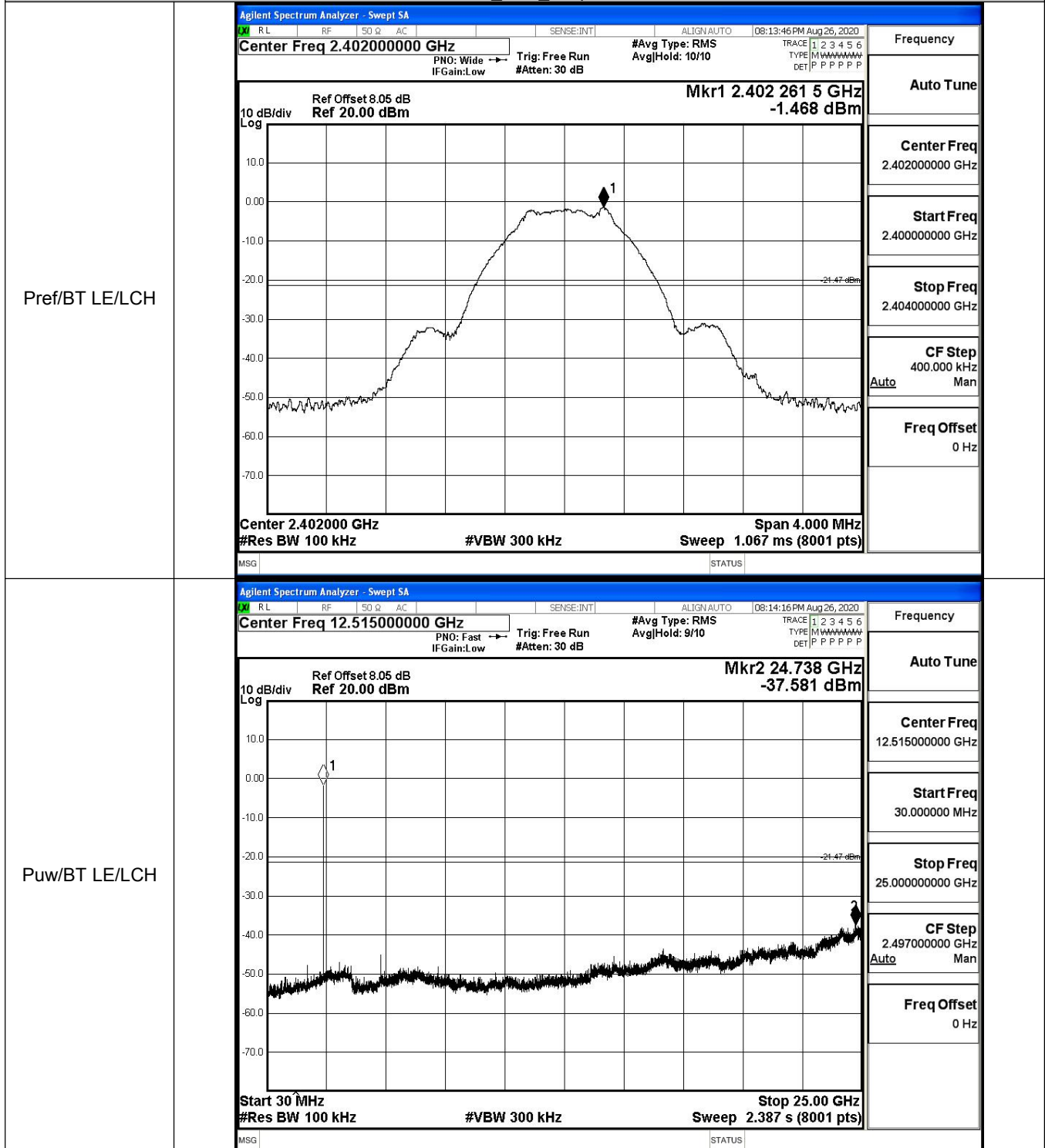
HCH



A.5 RF Conducted Spurious Emissions

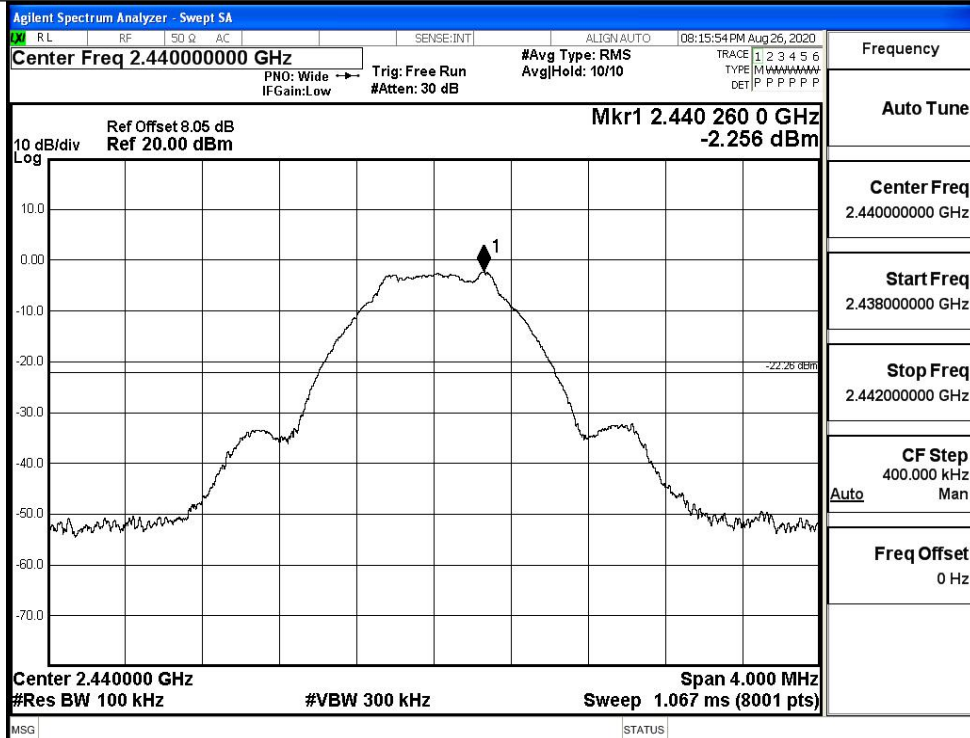
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.468	-37.581	-21.468	PASS
BT LE	MCH	-2.256	-37.448	-22.256	PASS
BT LE	HCH	-2.799	-36.858	-22.799	PASS

BT LE_LCH_Graphs

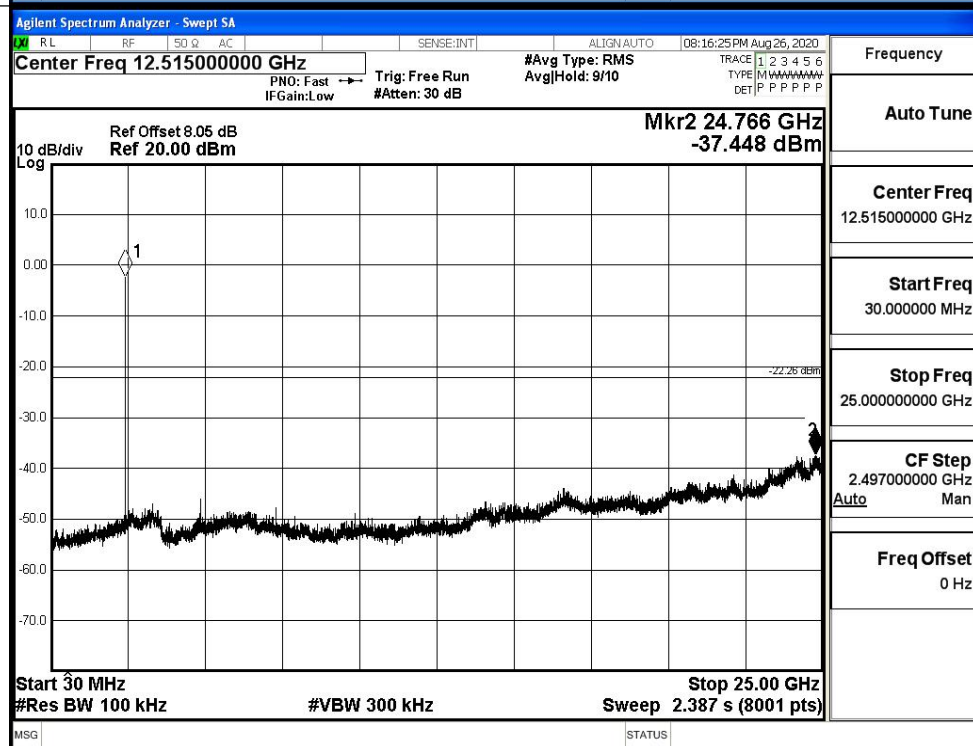


BT LE MCH Graphs

Pref/BT LE/MCH

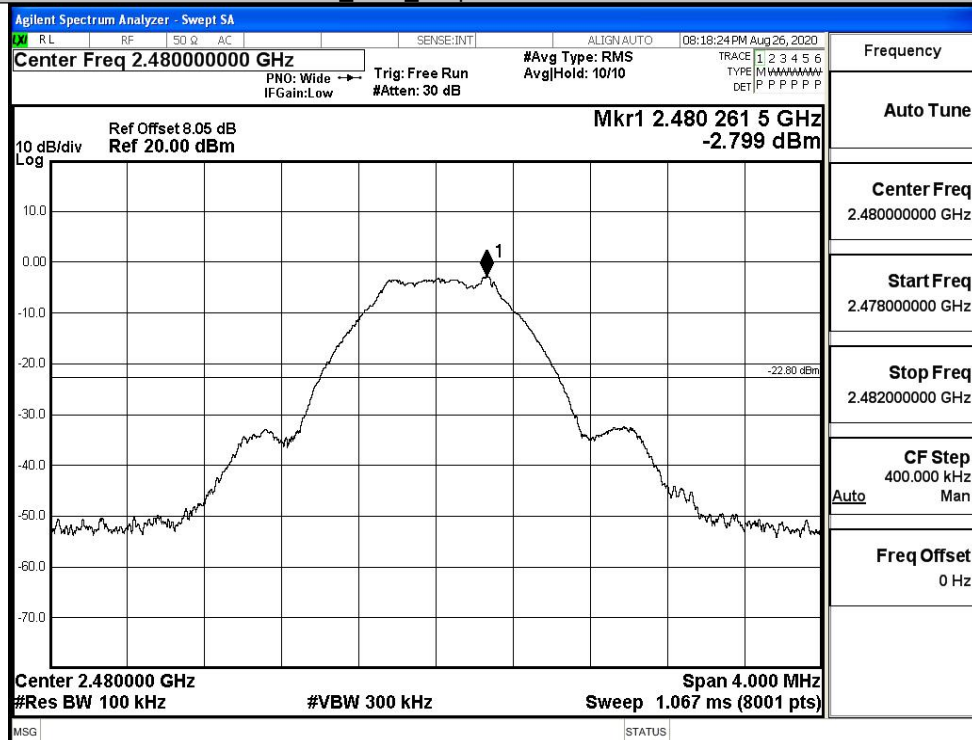


Puw/BT LE/MCH

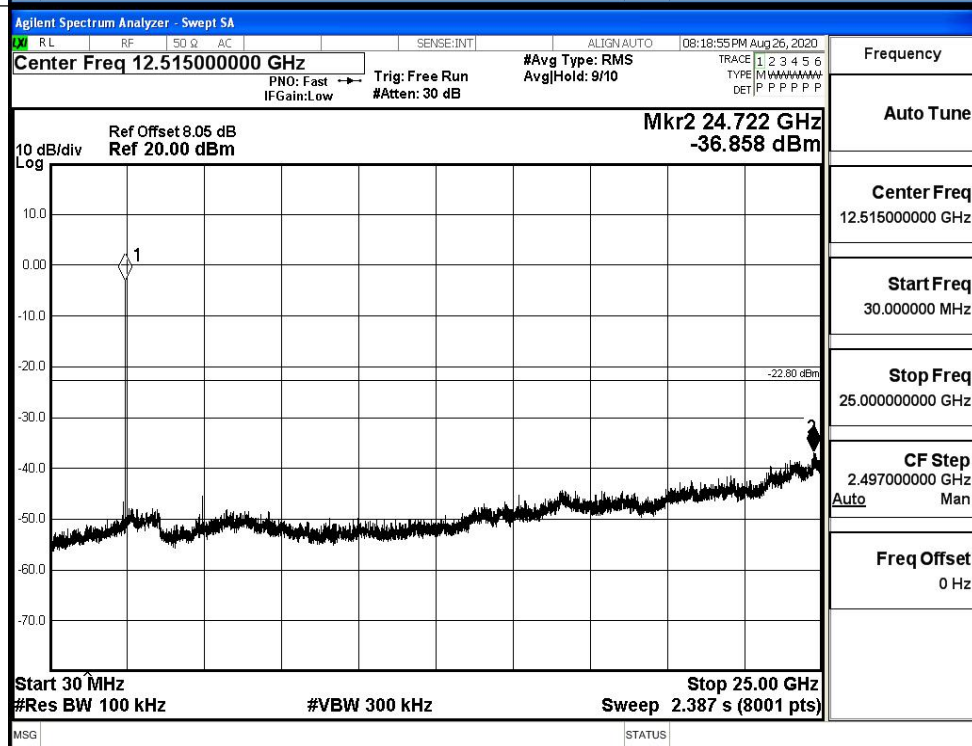


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

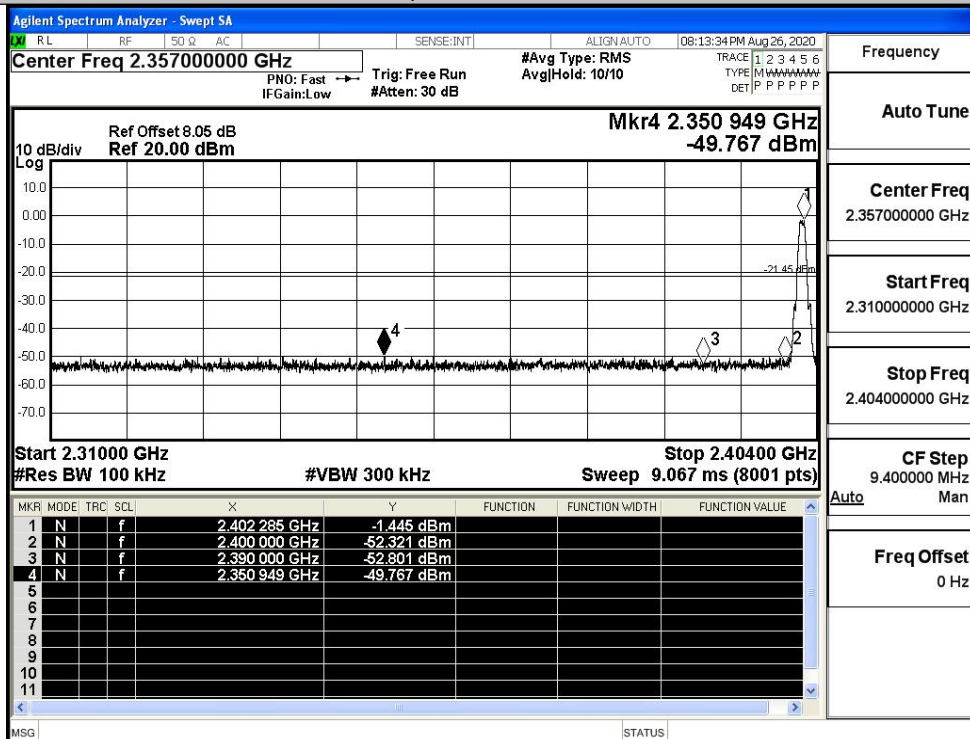


A.6 Band-edge for RF Conducted Emissions

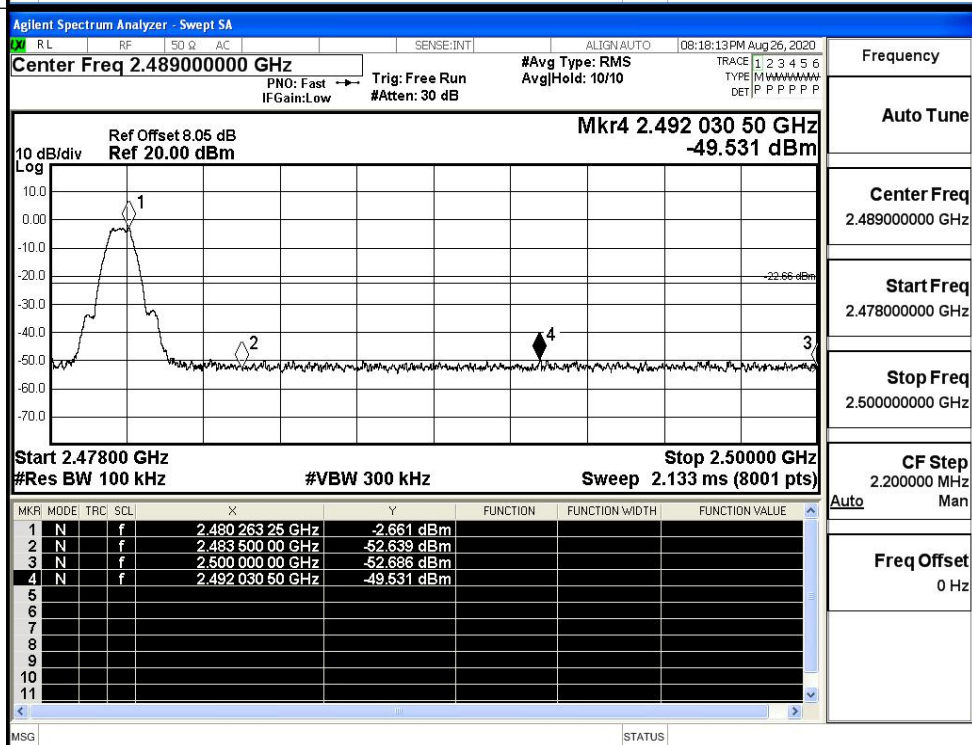
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.445	-49.767	-21.45	PASS
BT LE	HCH	-2.661	-49.531	-22.66	PASS

Test Graphs

LCH



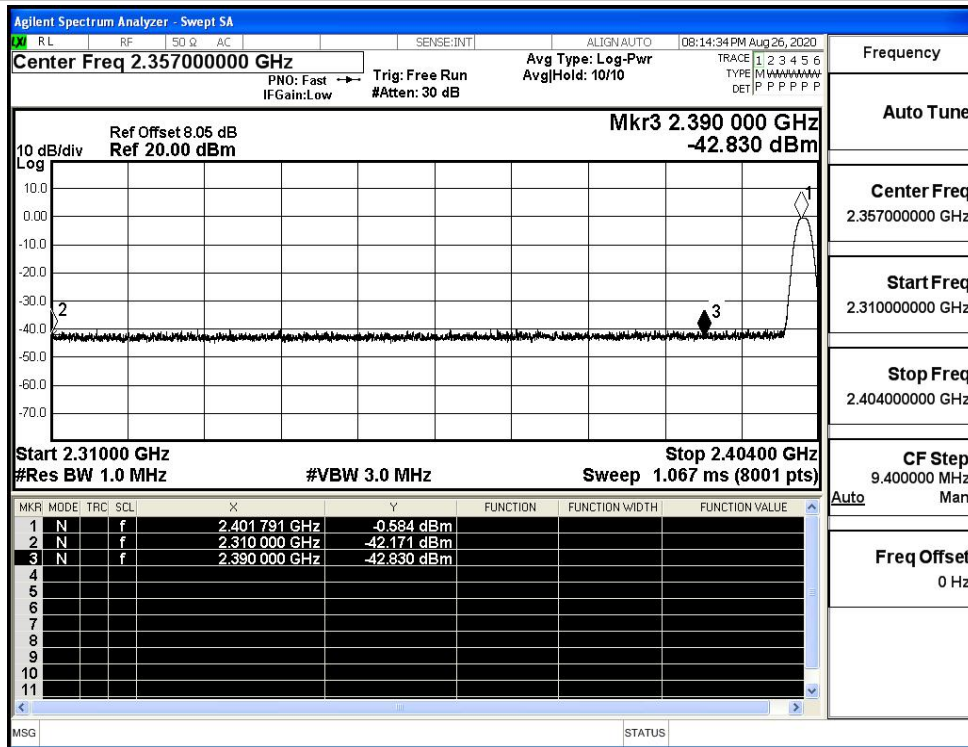
HCH



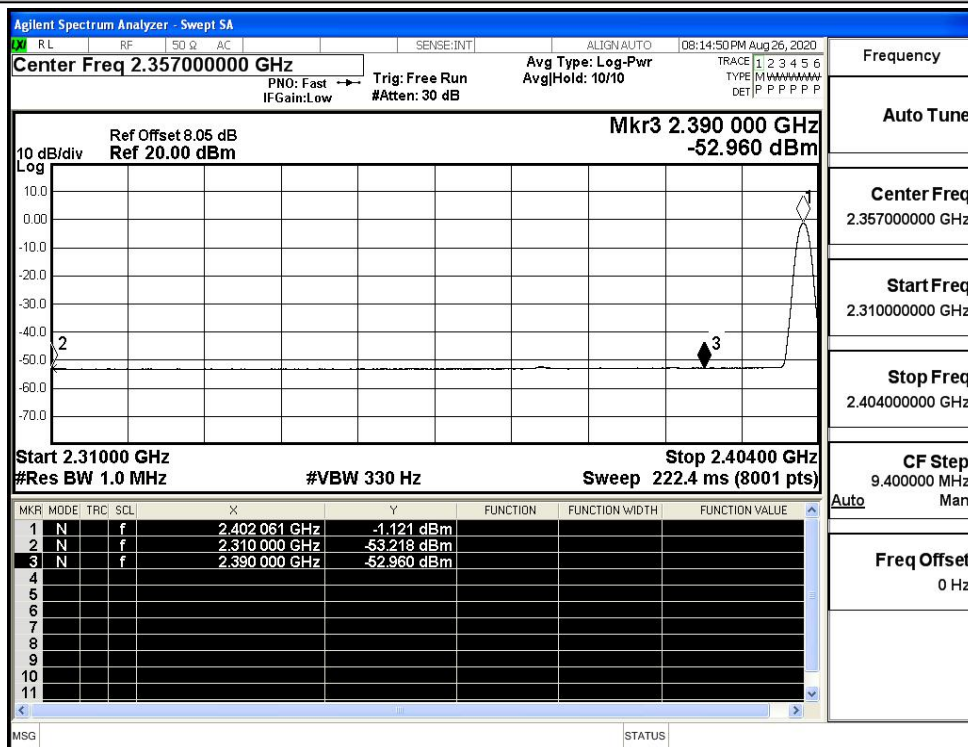
A.7 Restrict-band band-edge measurements

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	-42.17	2.65	0	55.71	PEAK	74	PASS
		Ant1	2310.0	-53.22	2.65	0	44.66	AV	54	PASS
		Ant1	2390.0	-42.83	2.65	0	55.05	PEAK	74	PASS
		Ant1	2390.0	-52.96	2.65	0	44.92	AV	54	PASS
	2480	Ant1	2483.5	-43.40	2.65	0	54.48	PEAK	74	PASS
		Ant1	2483.5	-52.29	2.65	0	45.59	AV	54	PASS
		Ant1	2500.0	-41.59	2.65	0	56.29	PEAK	74	PASS
		Ant1	2500.0	-52.23	2.65	0	45.65	AV	54	PASS

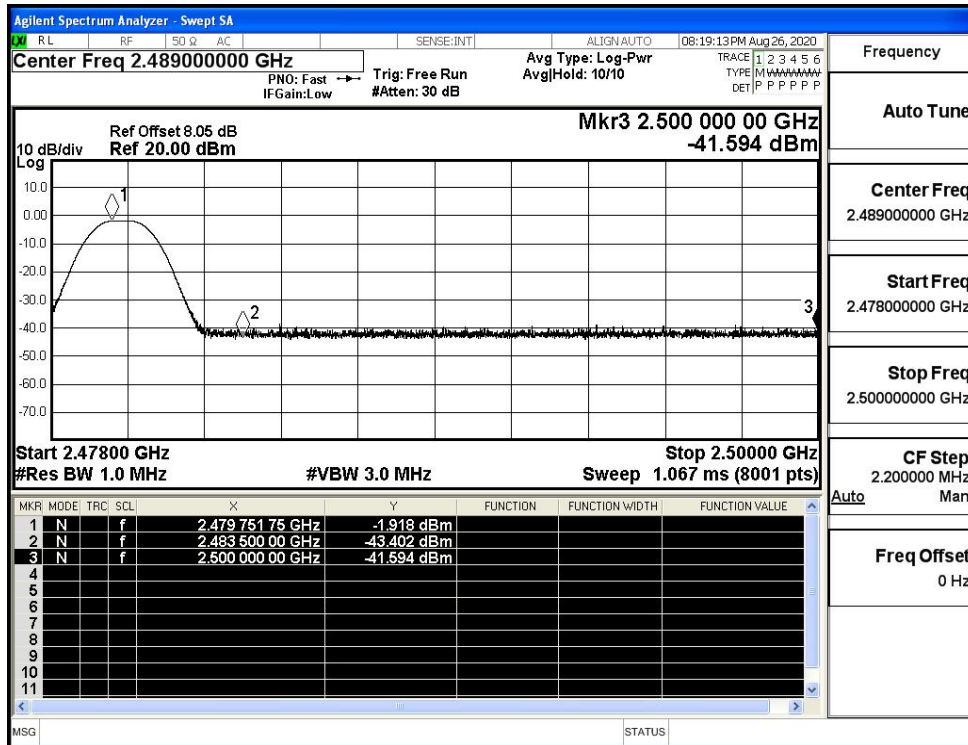
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

