

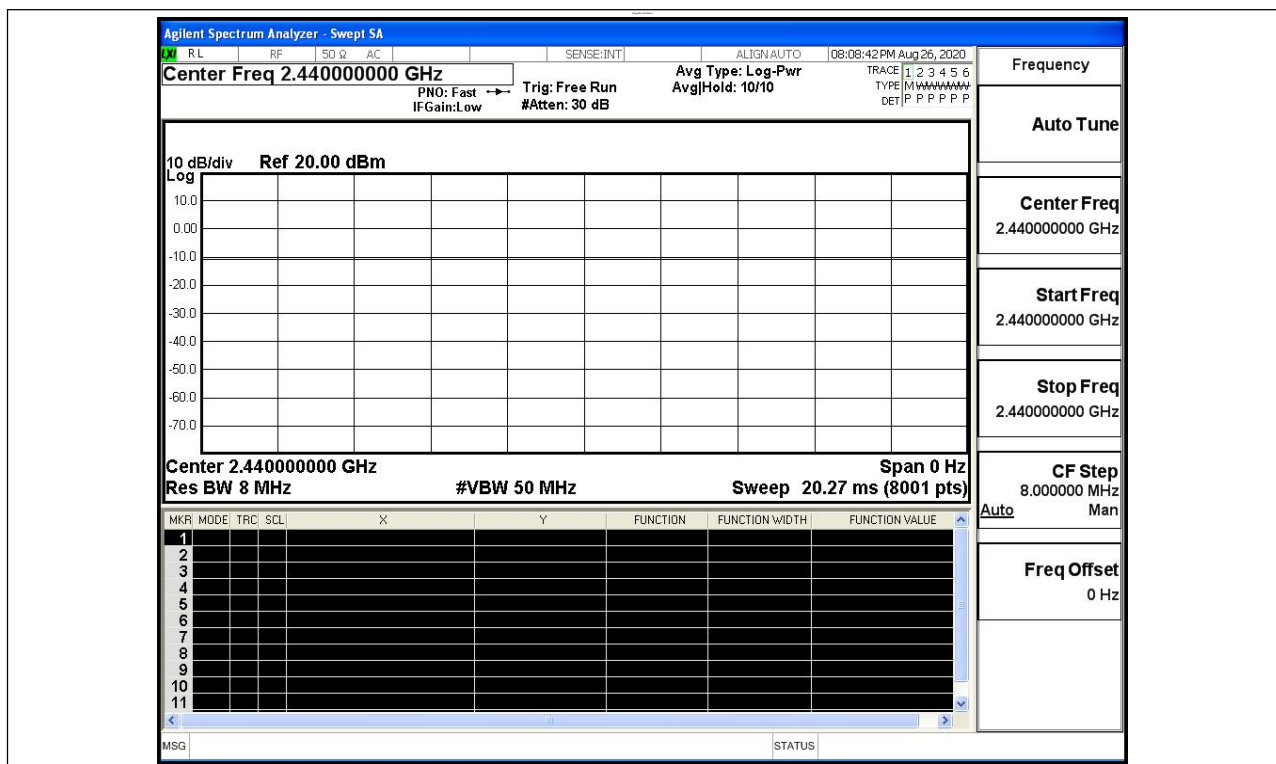
Appendix A
RF Test Data for BT V4.0(BDR/EDR) (Conducted Measurement)
Product Name: Aquarium Luminaire
Trade Mark: Fluval
Test Model: A13292

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

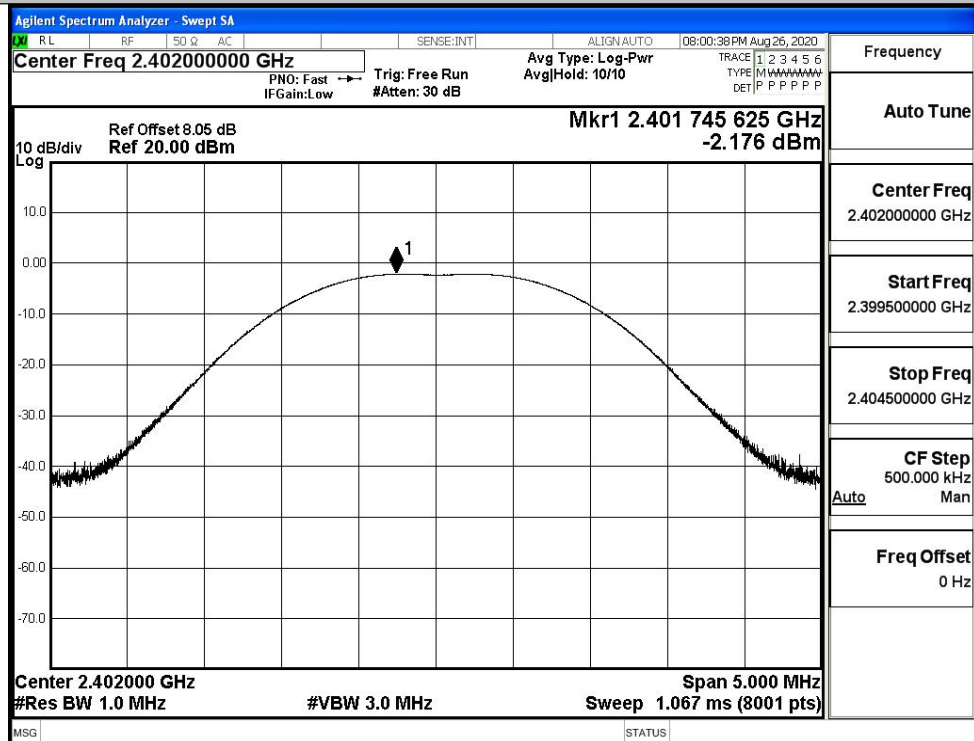


A.2 Maximum Conducted Peak Output Power

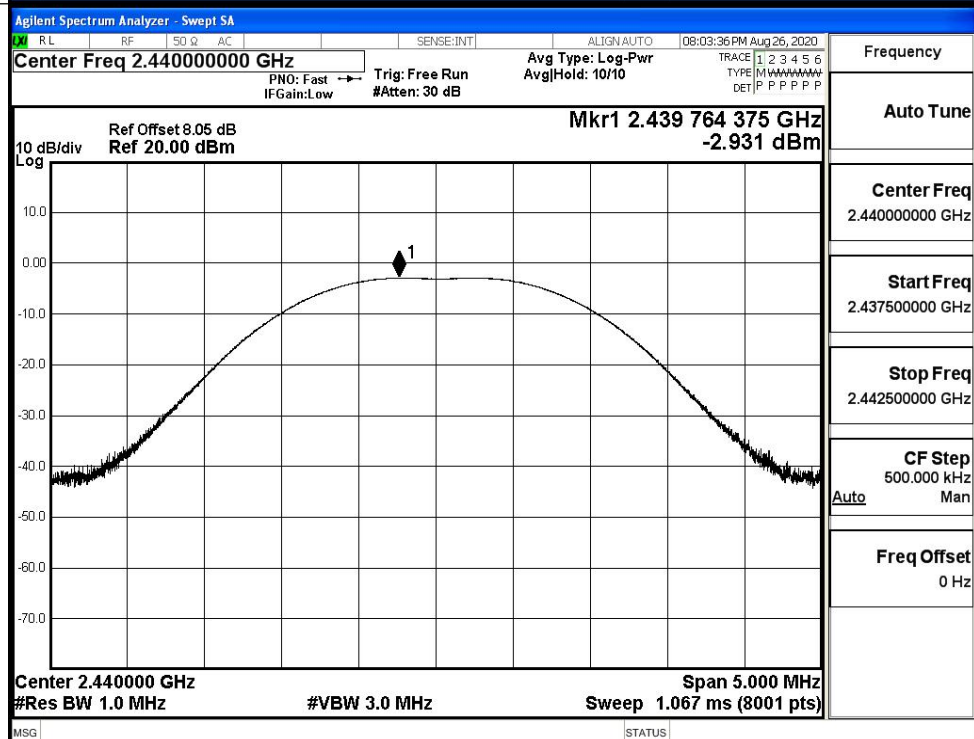
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.176	30	PASS
BT LE	MCH	-2.931	30	PASS
BT LE	HCH	-3.429	30	PASS

Test Graphs

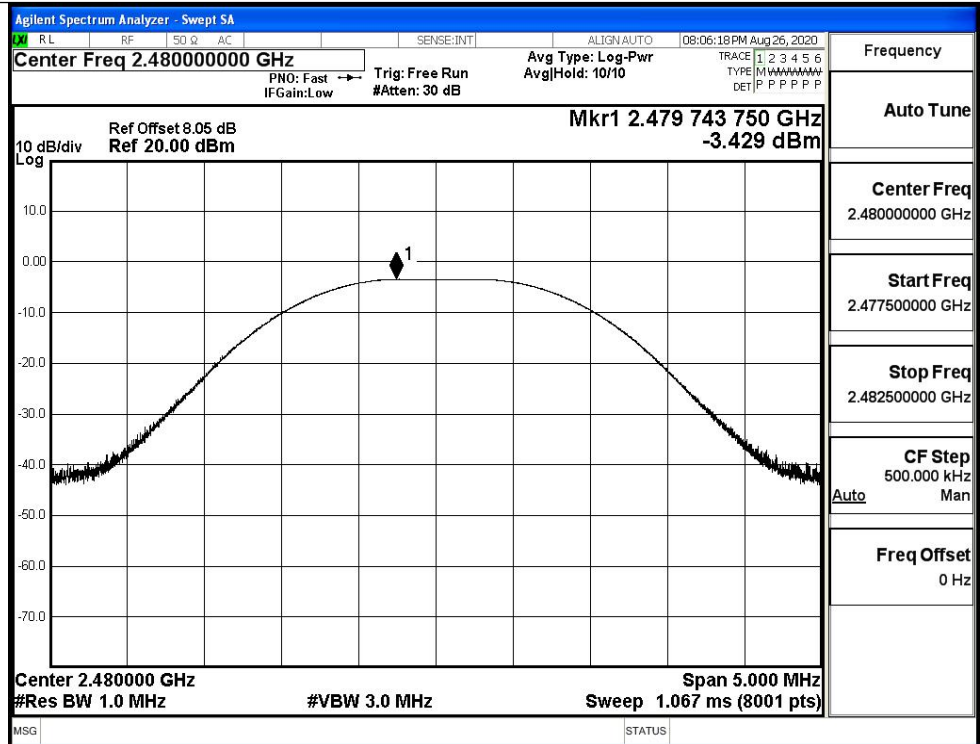
LCH



MCH



HCH

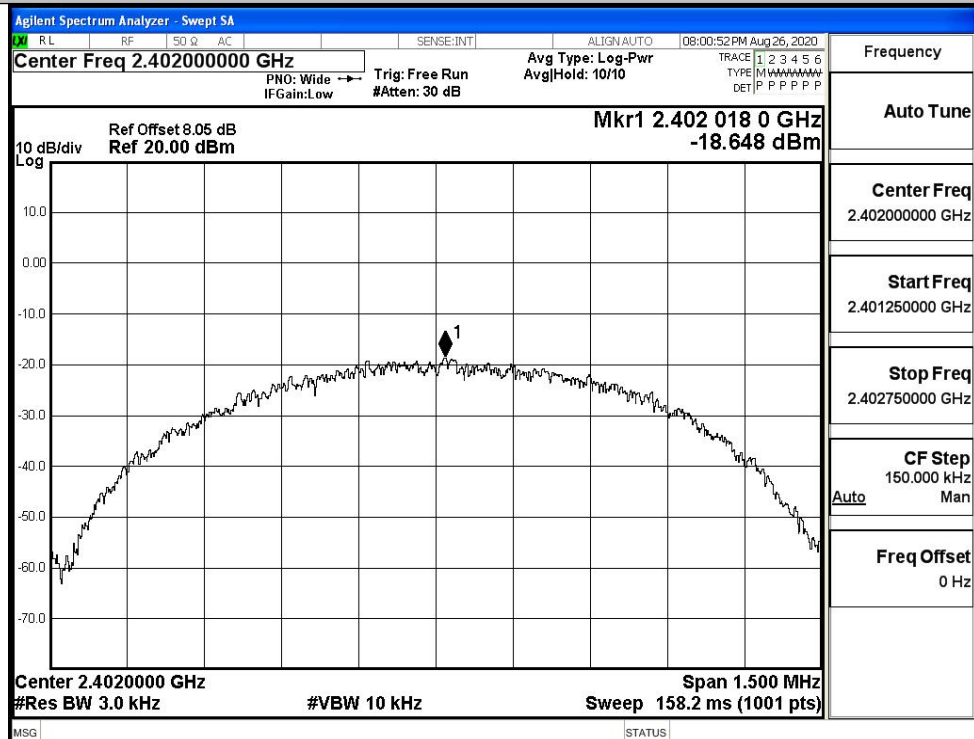


A.3 Maximum Power Spectral Density

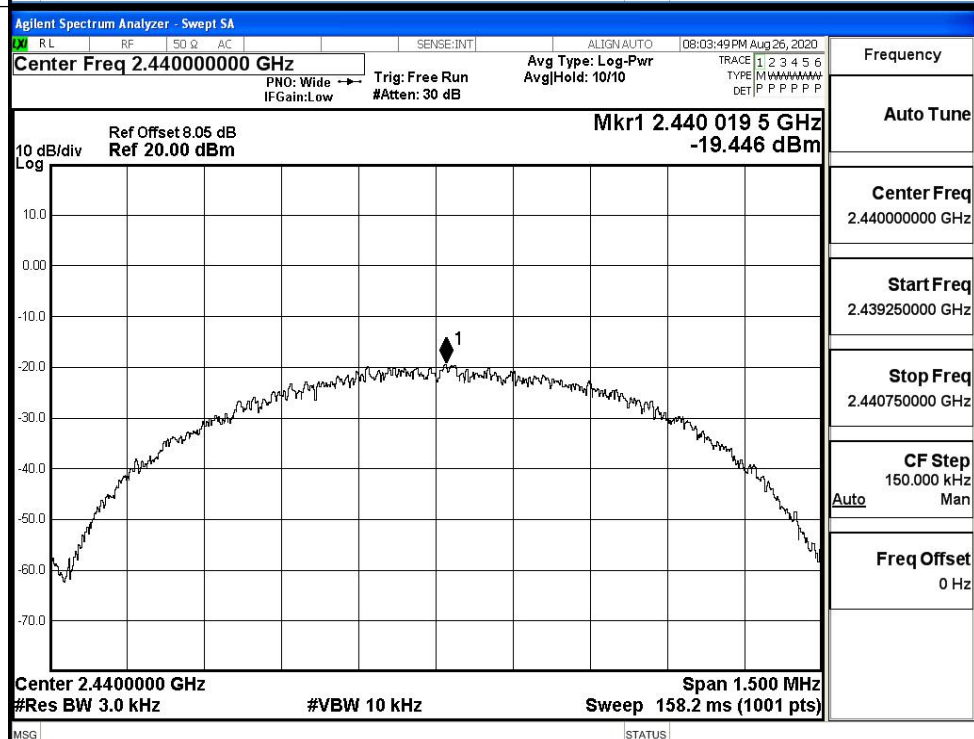
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-18.648	8	PASS
BT LE	MCH	-19.446	8	PASS
BT LE	HCH	-19.931	8	PASS

Test Graphs

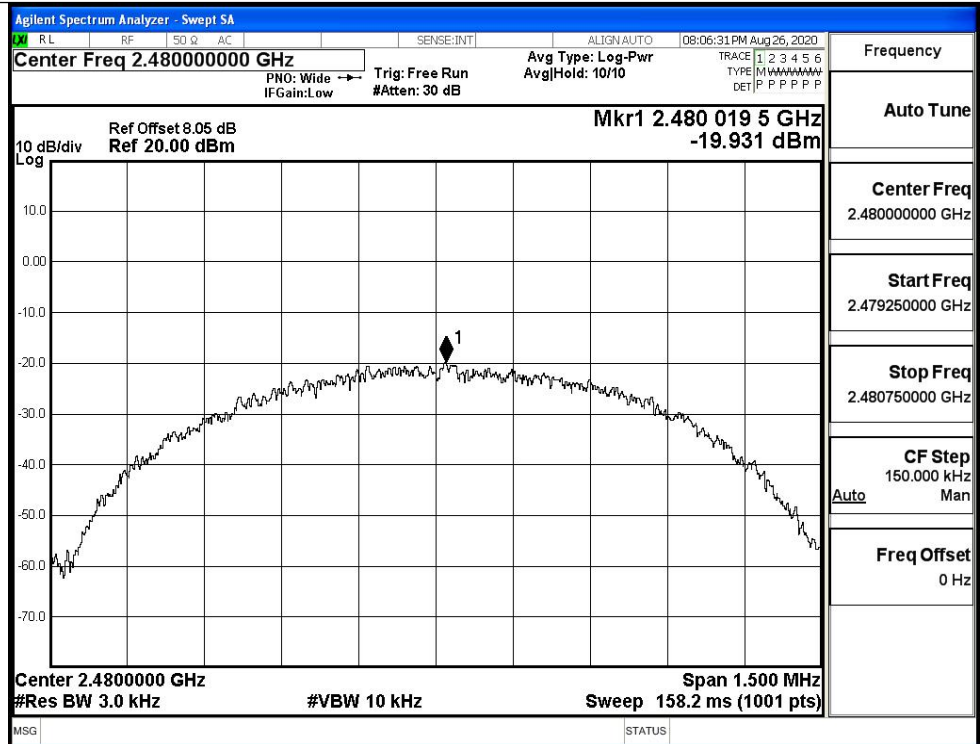
LCH



MCH



HCH

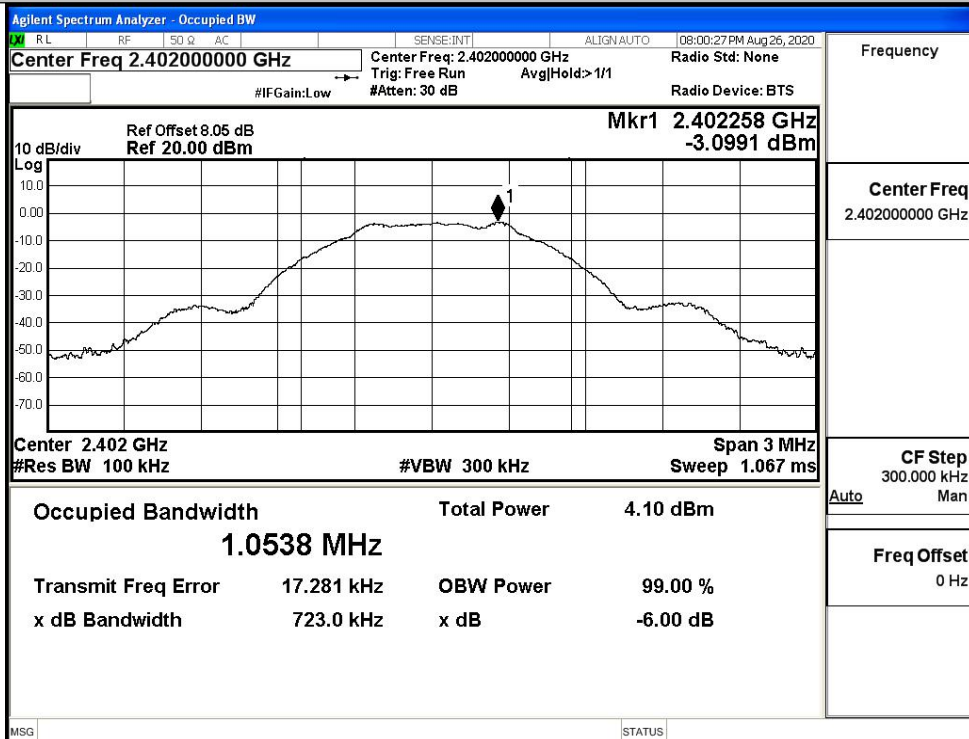


A.4 6dB Bandwidth

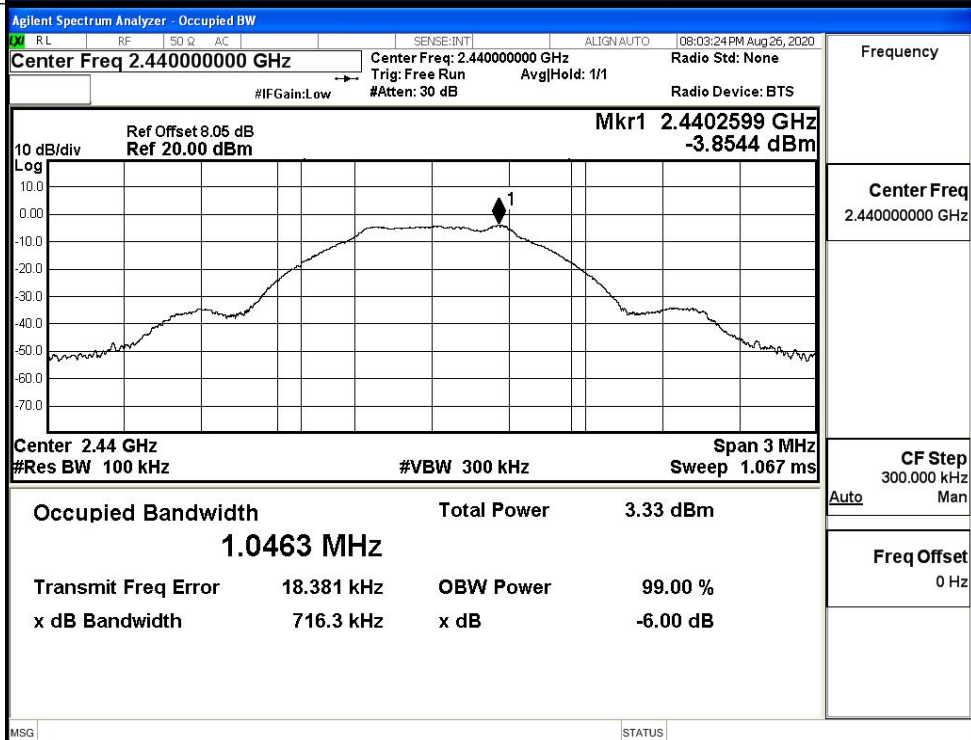
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7230	≥ 0.5	PASS
BT LE	MCH	0.7163	≥ 0.5	PASS
BT LE	HCH	0.7339	≥ 0.5	PASS

Test Graphs

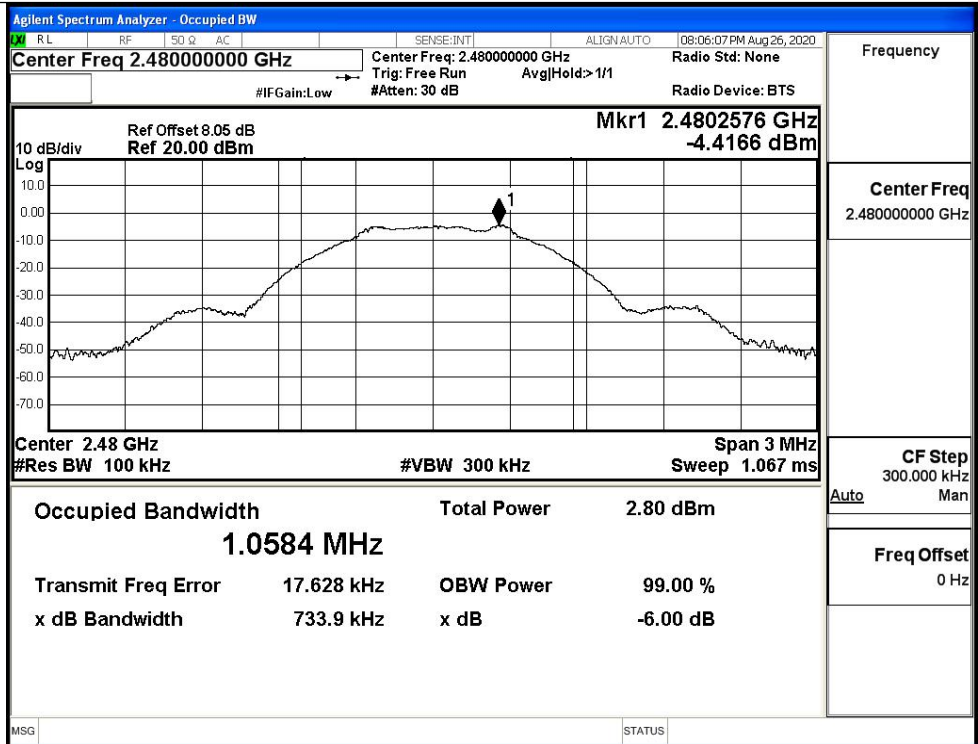
LCH



MCH



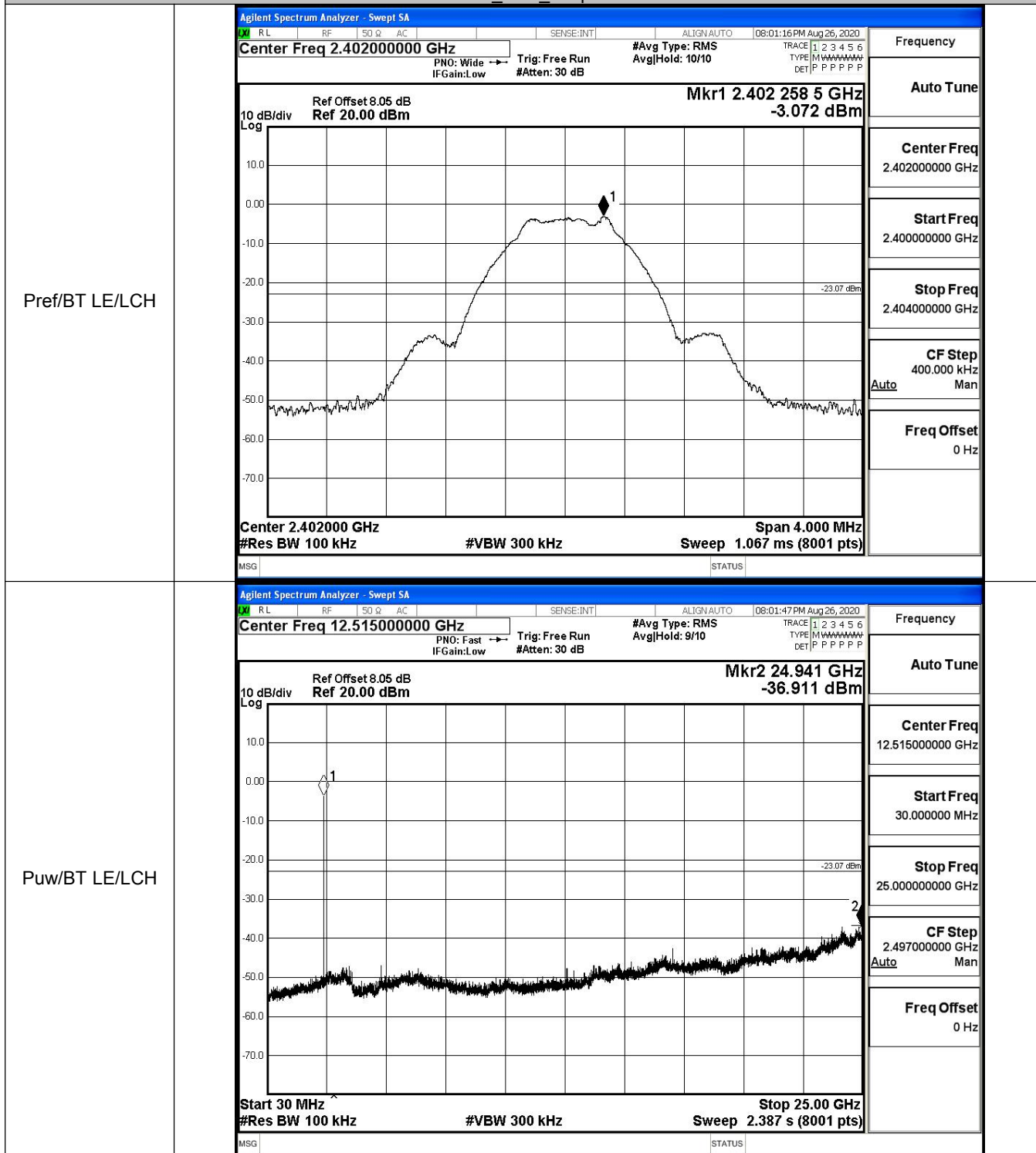
HCH



A.5 RF Conducted Spurious Emissions

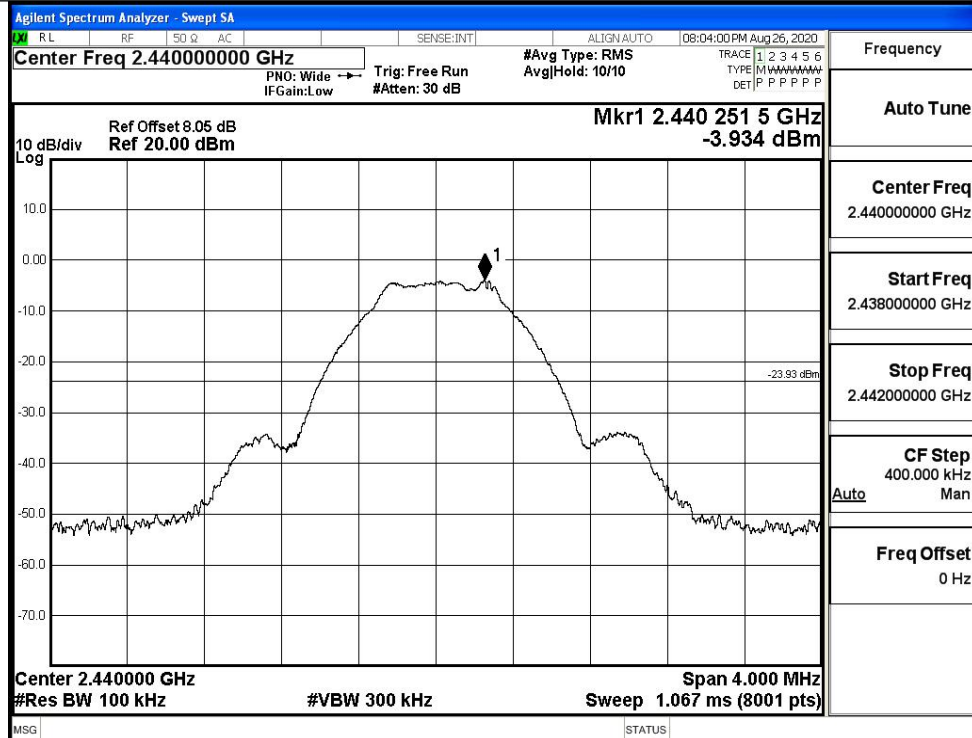
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.072	-36.911	-23.072	PASS
BT LE	MCH	-3.934	-37.285	-23.934	PASS
BT LE	HCH	-4.36	-37.706	-24.360	PASS

BT LE_LCH_Graphs

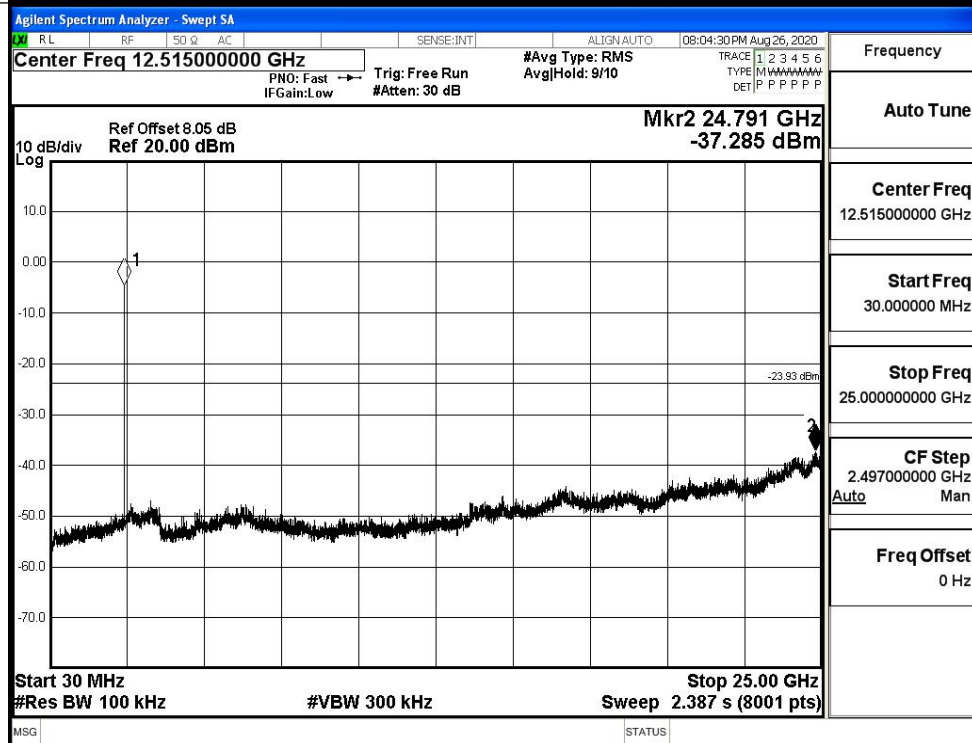


BT LE MCH Graphs

Pref/BT LE/MCH

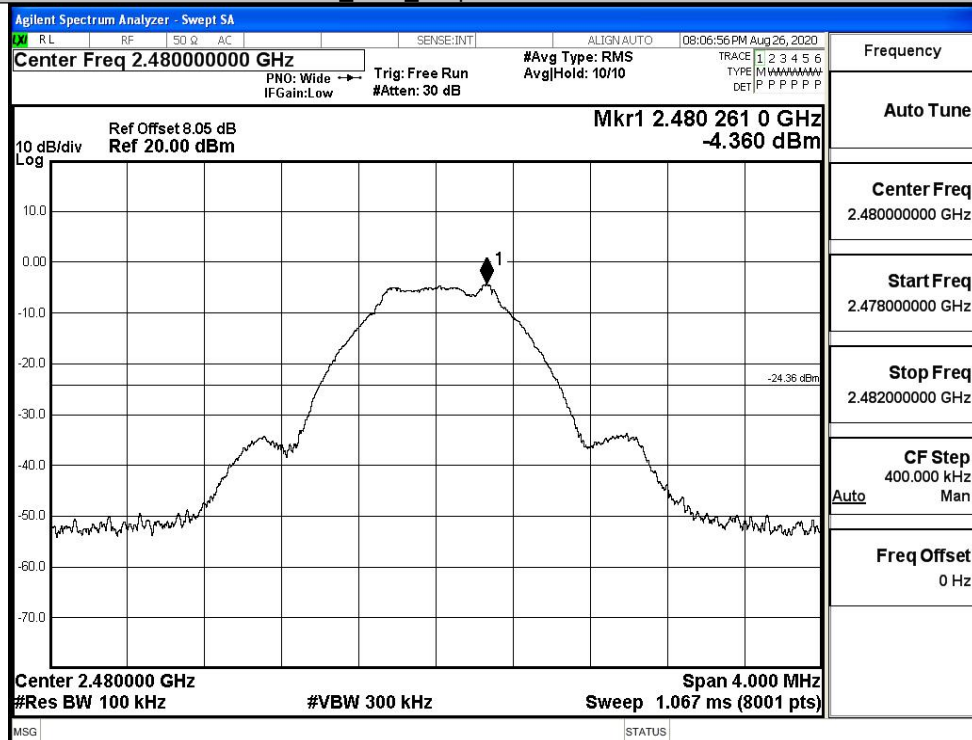


Puw/BT LE/MCH



BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

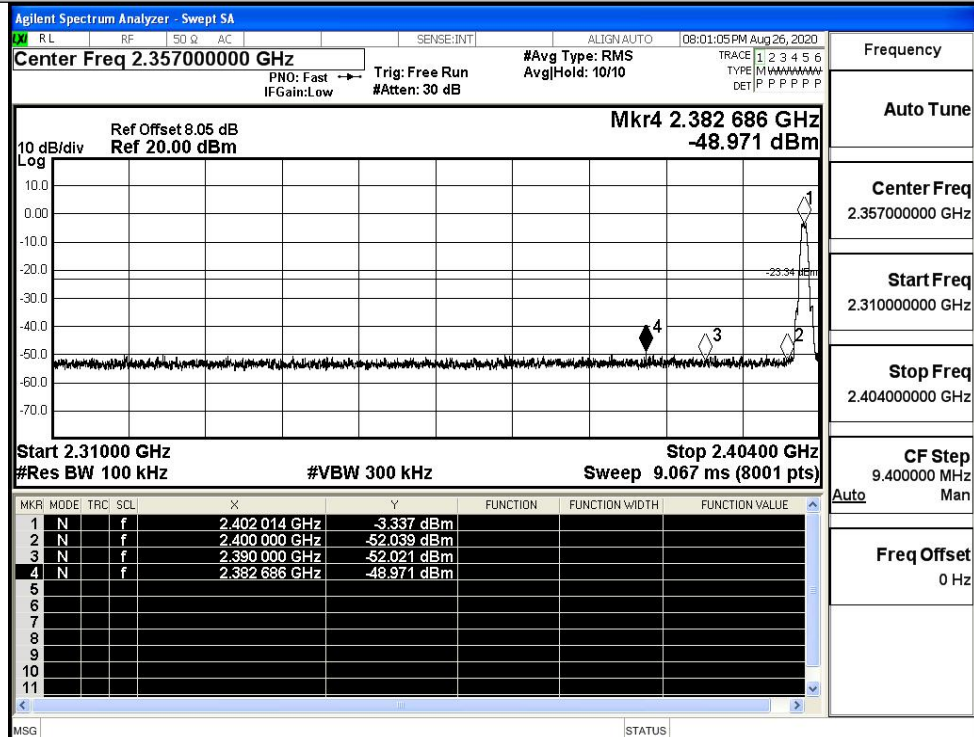


A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.337	-48.971	-23.34	PASS
BT LE	HCH	-4.180	-49.349	-24.18	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

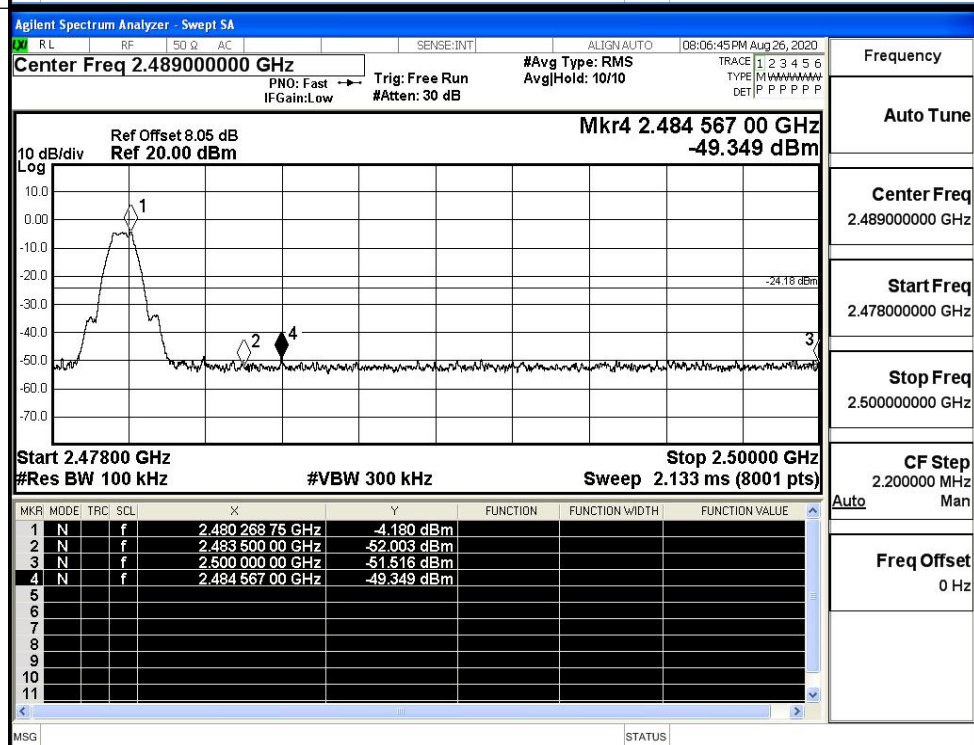
9.400000 MHz

Auto Man

Freq Offset

0 Hz

HCH



Frequency

Auto Tune

Center Freq

2.489000000 GHz

Start Freq

2.478000000 GHz

Stop Freq

2.500000000 GHz

CF Step

2.200000 MHz

Auto Man

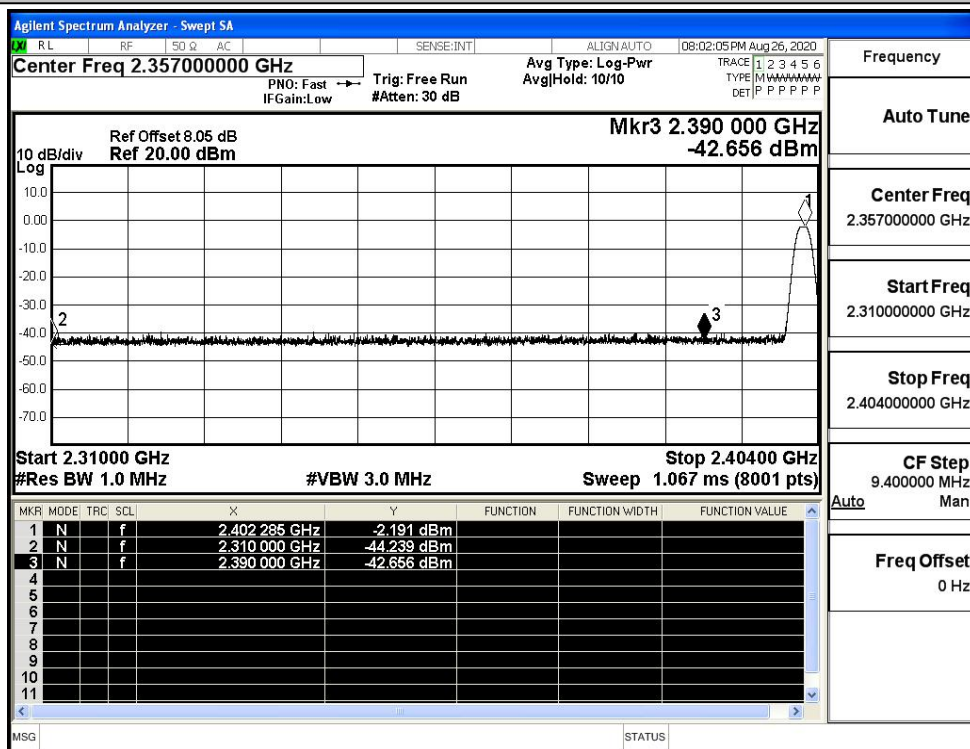
Freq Offset

0 Hz

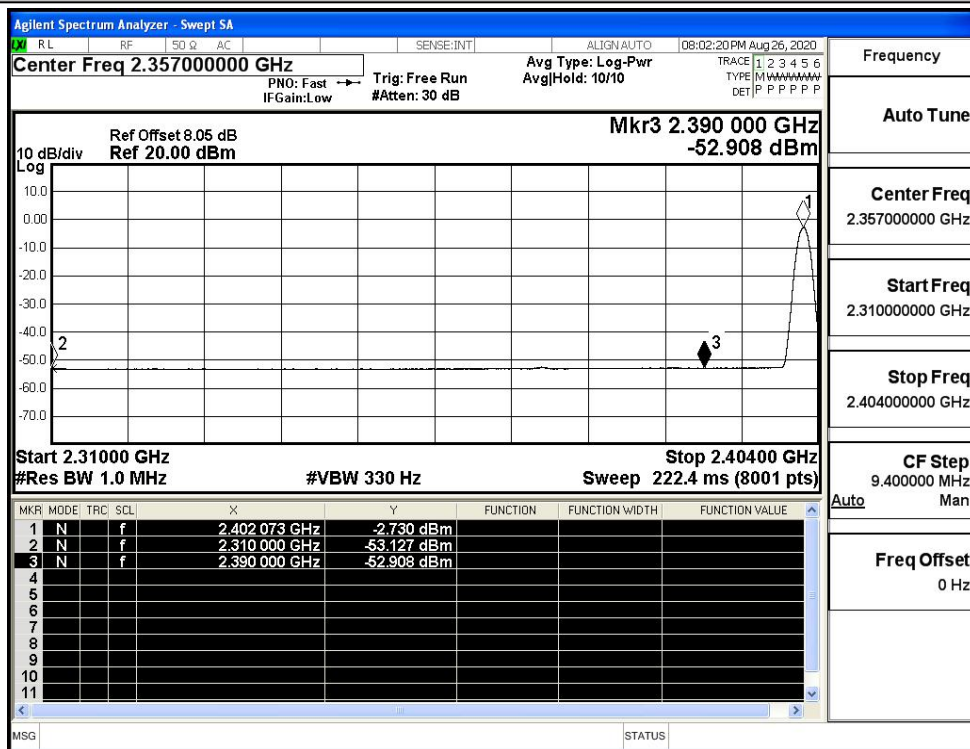
A.7 Restrict-band band-edge measurements

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	-44.24	2.65	0	53.64	PEAK	74	PASS
		Ant1	2310.0	-53.13	2.65	0	44.75	AV	54	PASS
		Ant1	2390.0	-42.66	2.65	0	55.22	PEAK	74	PASS
		Ant1	2390.0	-52.91	2.65	0	44.97	AV	54	PASS
	2480	Ant1	2483.5	-40.98	2.65	0	56.9	PEAK	74	PASS
		Ant1	2483.5	-52.35	2.65	0	45.53	AV	54	PASS
		Ant1	2500.0	-42.63	2.65	0	55.25	PEAK	74	PASS
		Ant1	2500.0	-52.30	2.65	0	45.58	AV	54	PASS

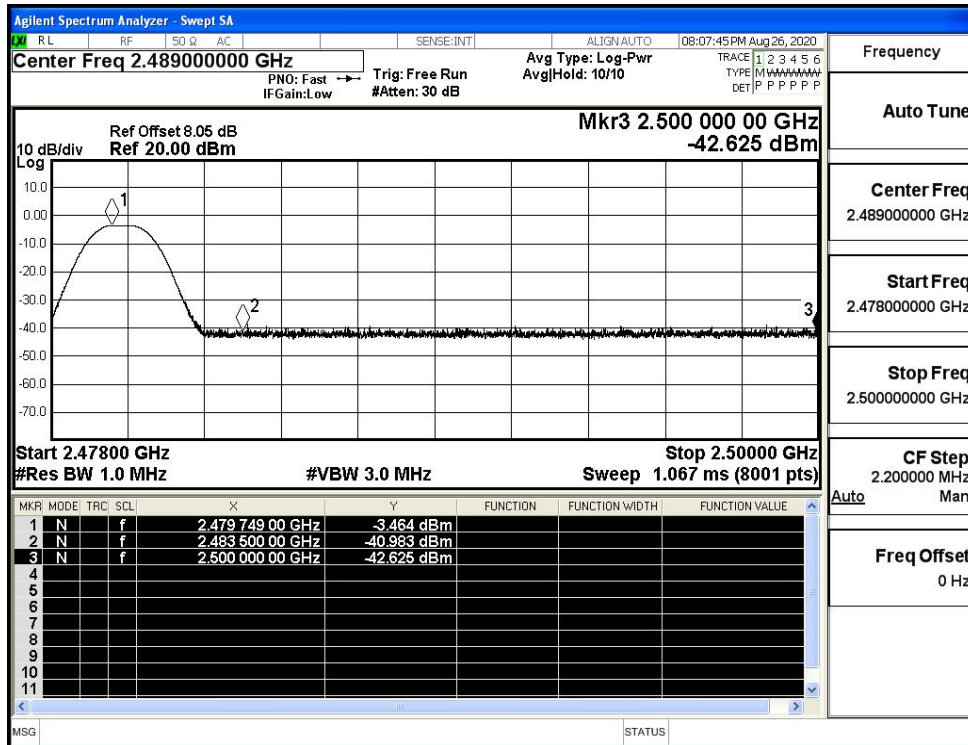
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

