

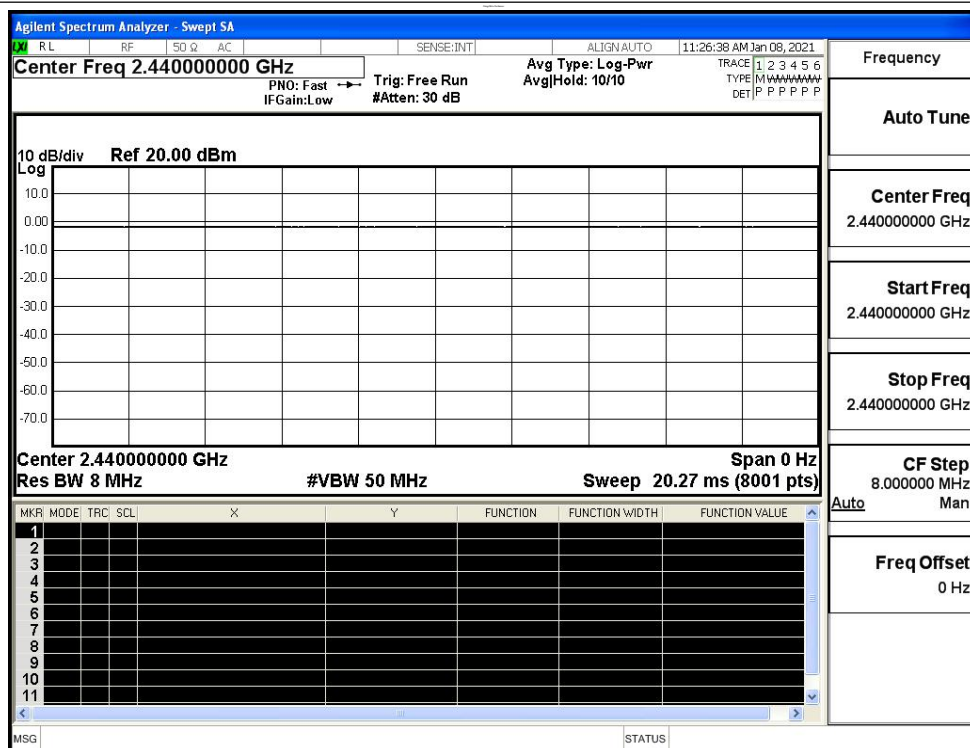
Appendix A
RF Test Data for BT V4.2 (Conducted Measurement)
Product Name: Smart light
Trade Mark: N/A
Test Model: SF5024

Environmental Conditions

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

A.1 Duty Cycle

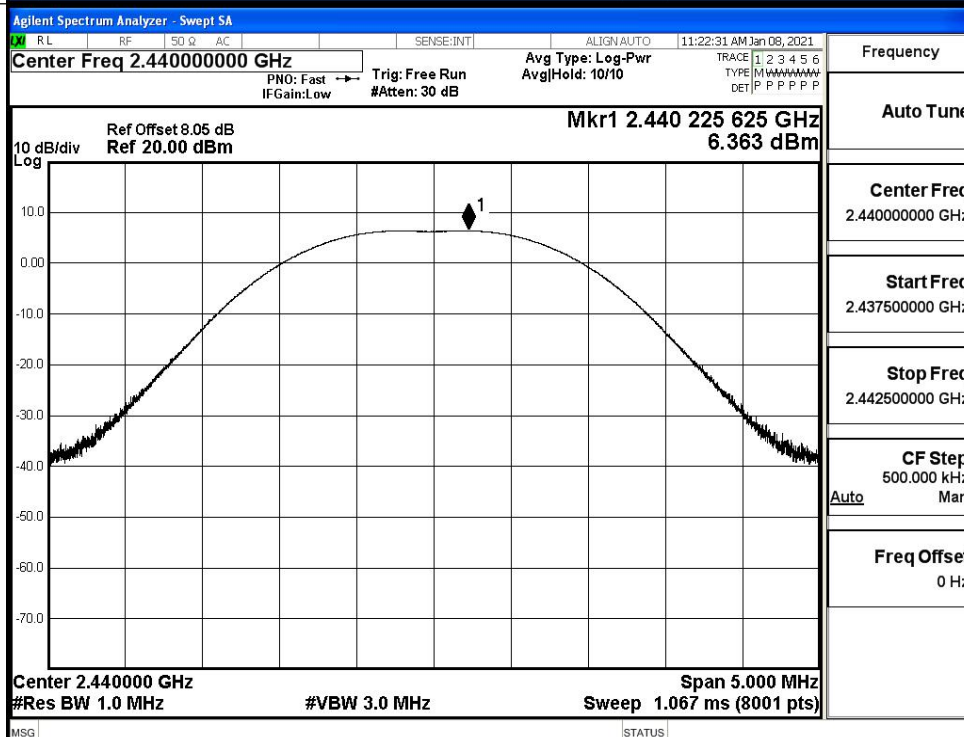
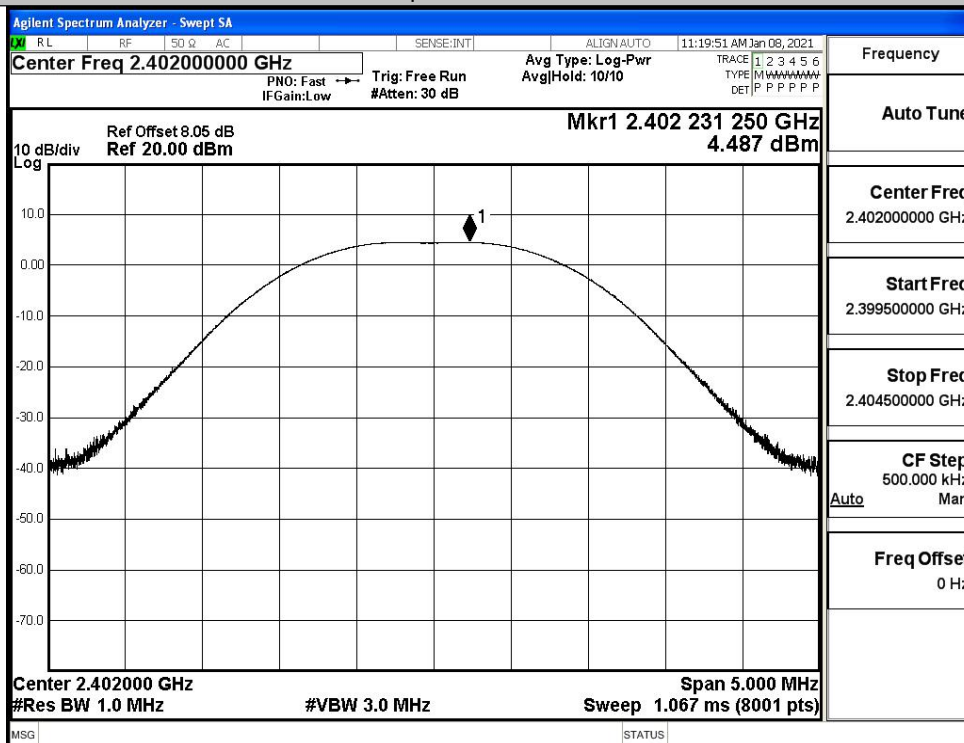
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS



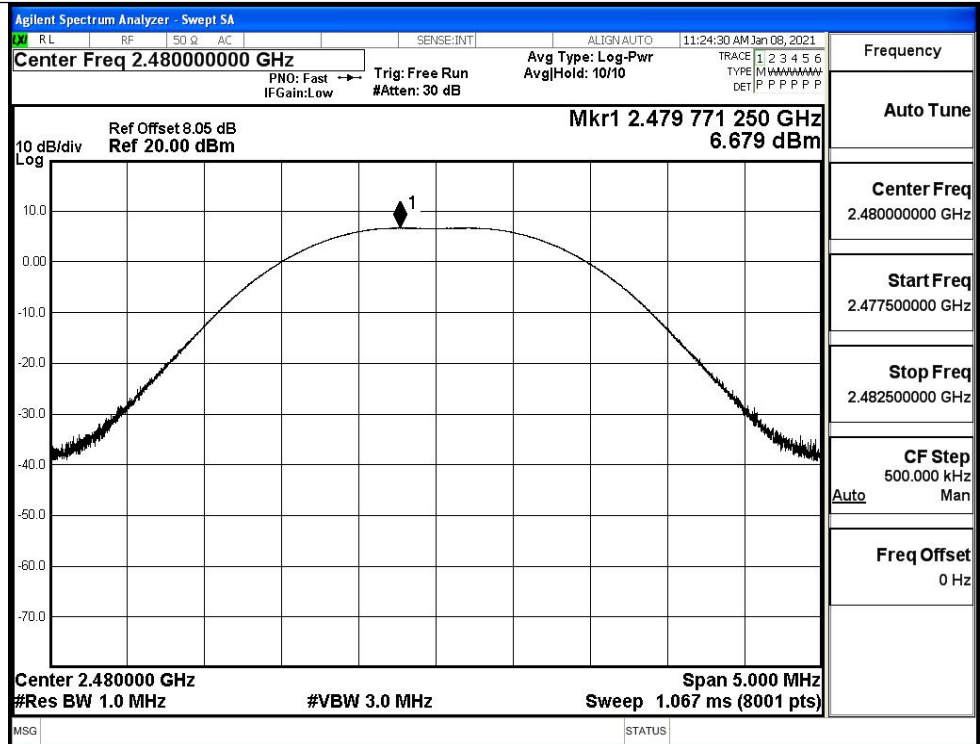
A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	4.487	30	PASS
BT LE	MCH	6.363	30	PASS
BT LE	HCH	6.679	30	PASS

Test Graphs



HCH

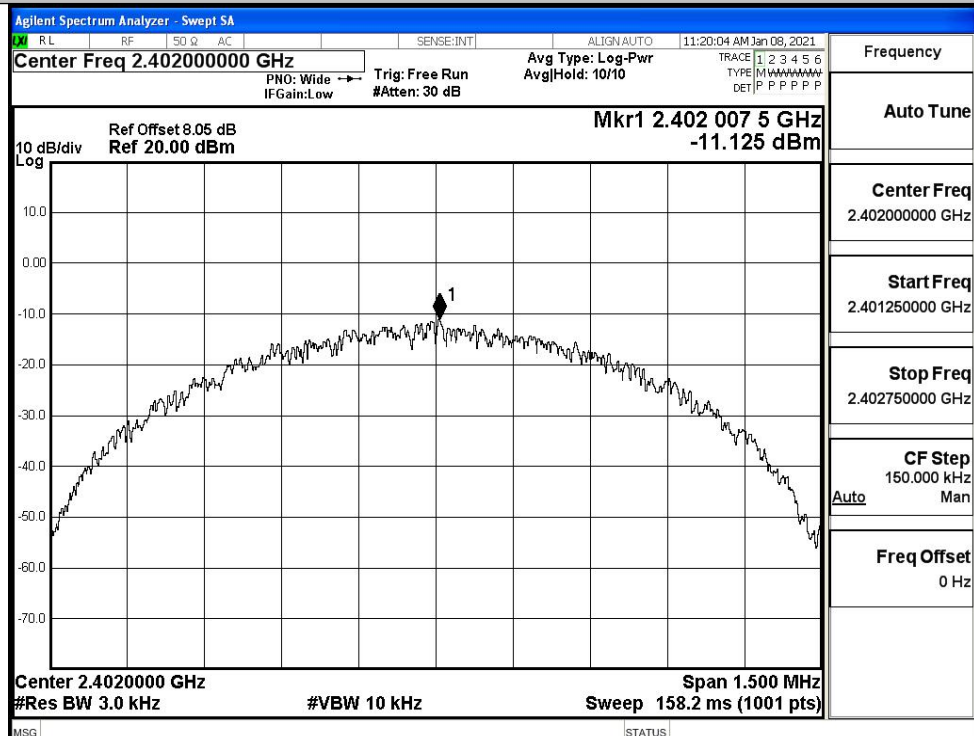


A.3 Maximum Power Spectral Density

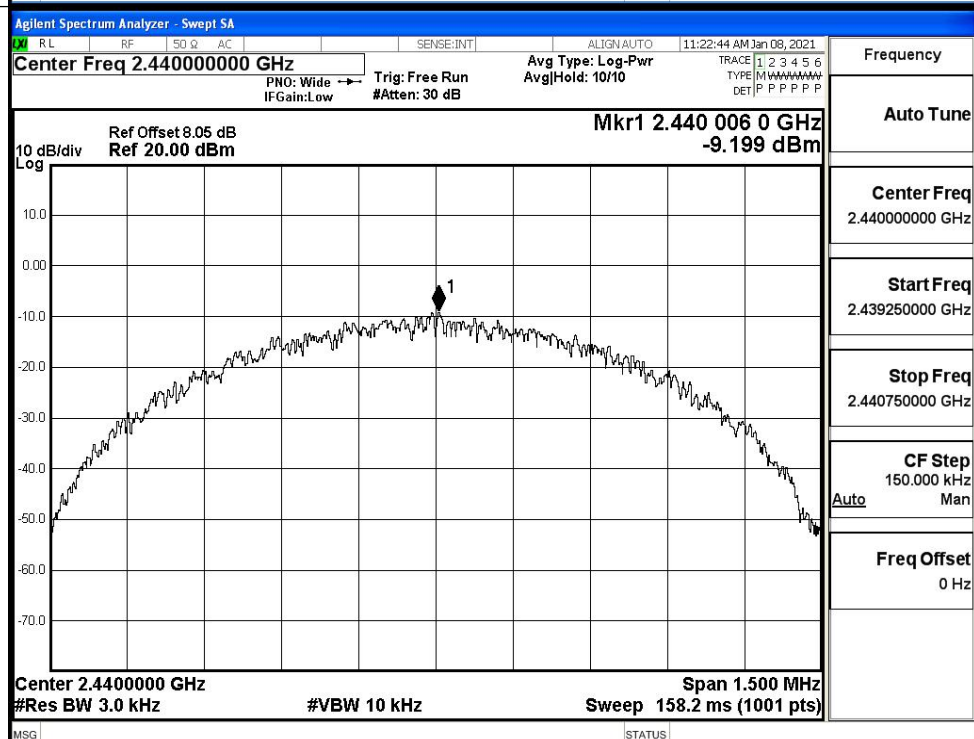
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-11.125	8	PASS
BT LE	MCH	-9.199	8	PASS
BT LE	HCH	-8.866	8	PASS

Test Graphs

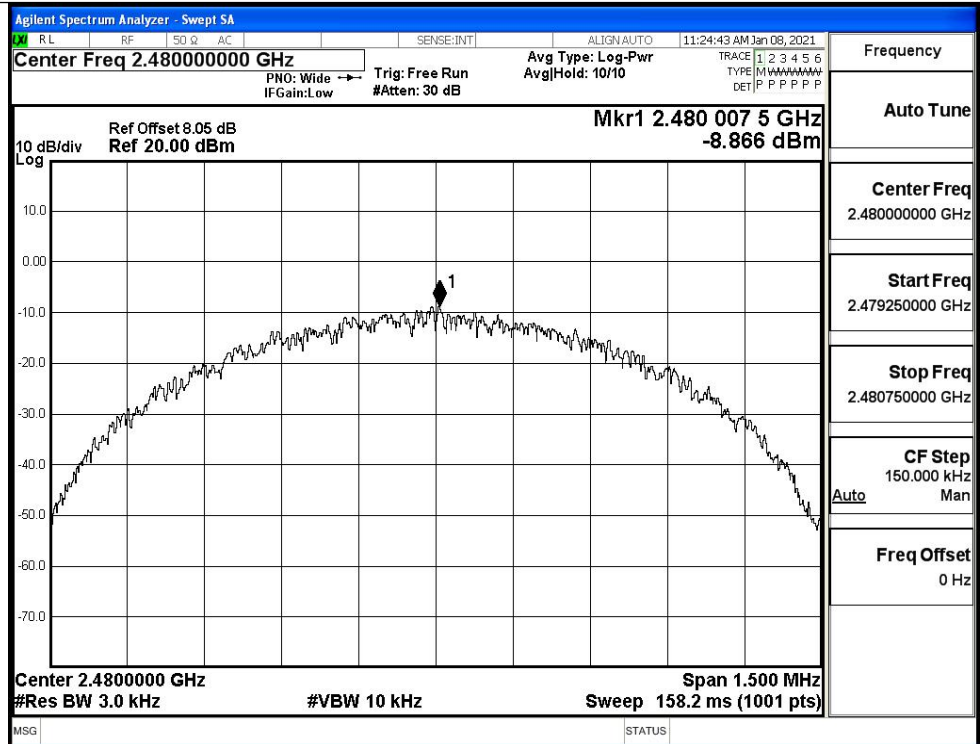
LCH



MCH



HCH

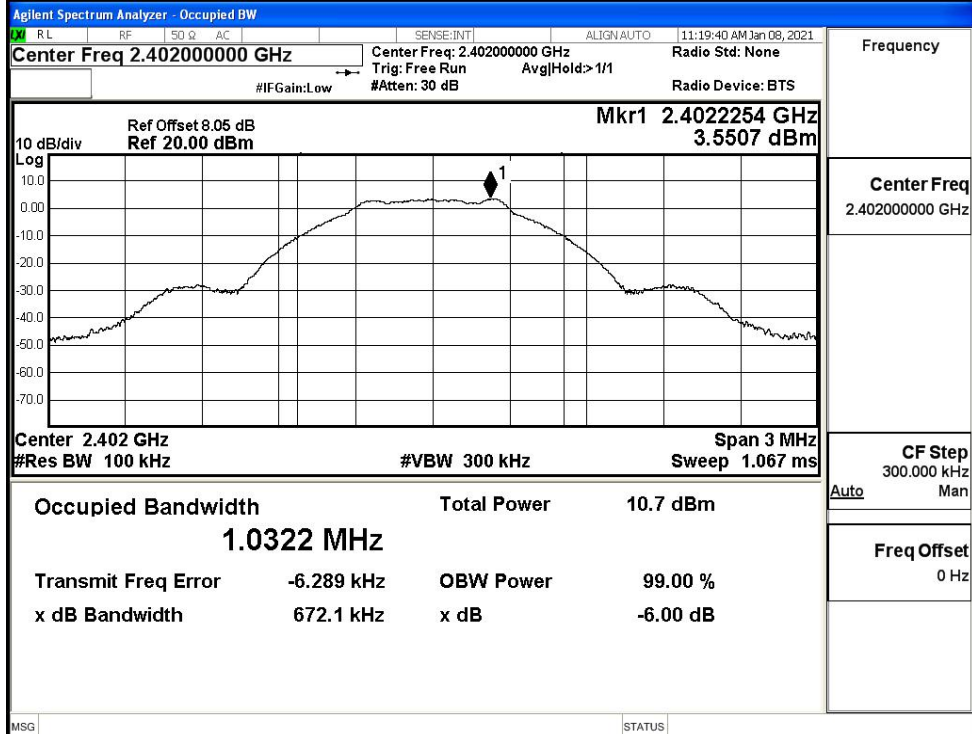


A.4 6dB Bandwidth

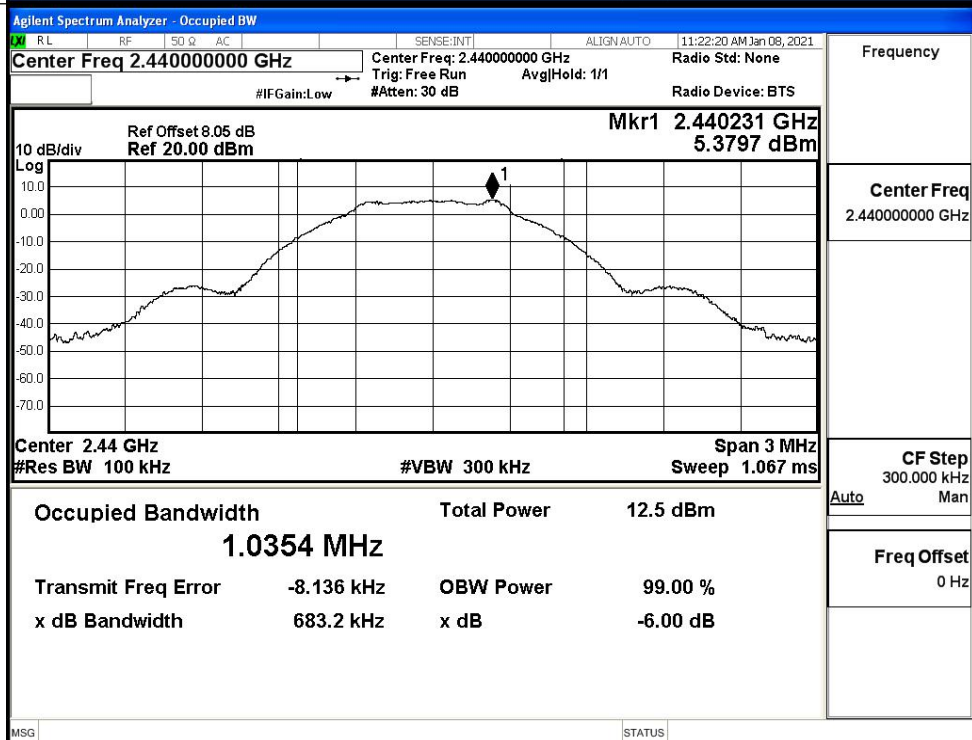
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6721	≥ 0.5	PASS
BT LE	MCH	0.6832	≥ 0.5	PASS
BT LE	HCH	0.6671	≥ 0.5	PASS

Test Graphs

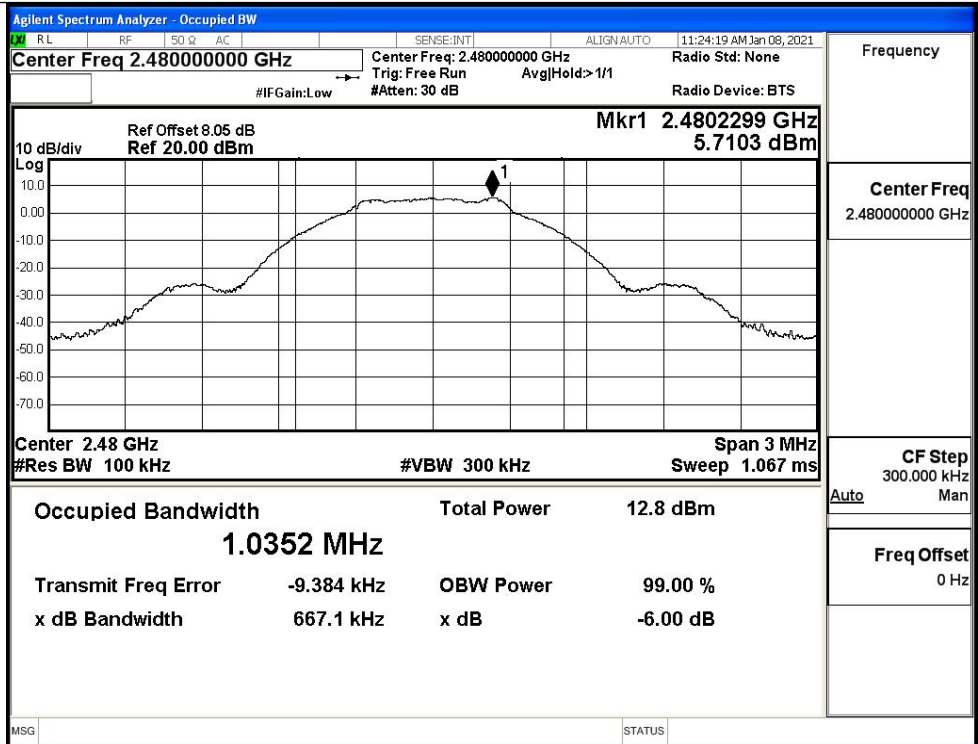
LCH



MCH



HCH

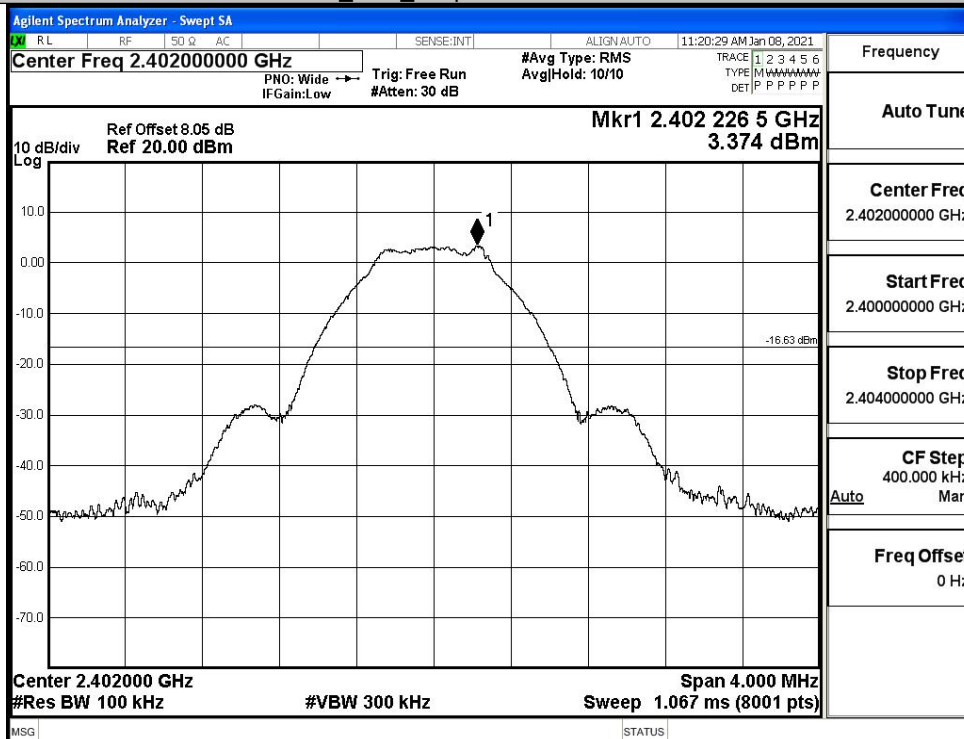


A.5 RF Conducted Spurious Emissions

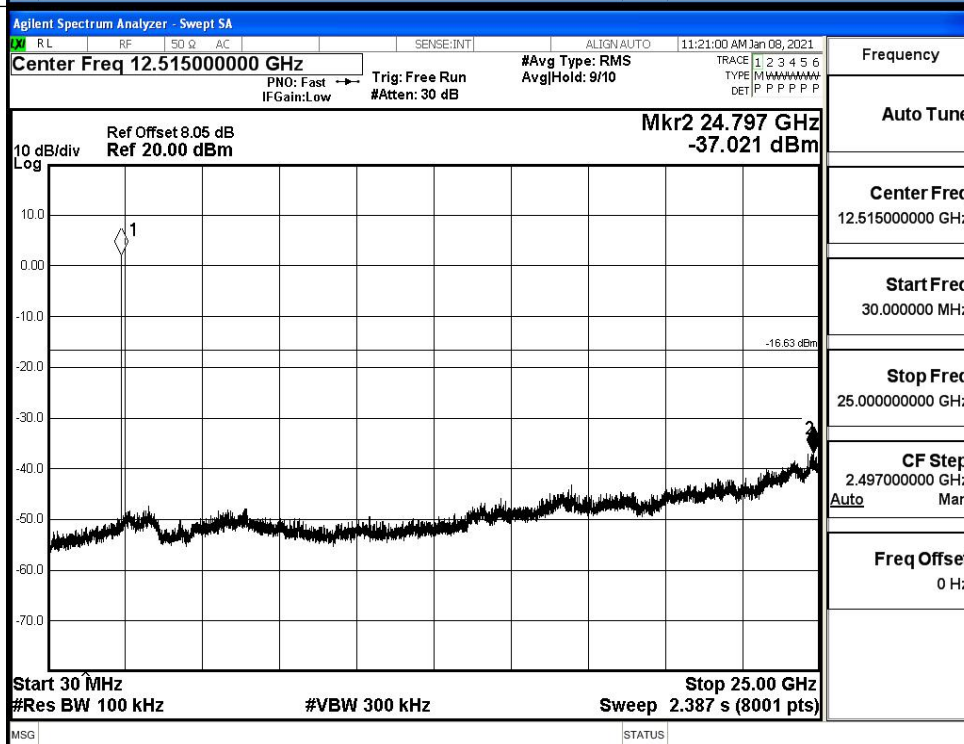
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	3.374	-37.021	-16.626	PASS
BT LE	MCH	5.326	-37.851	-14.674	PASS
BT LE	HCH	5.693	-37.866	-14.307	PASS

BT LE_LCH_Graphs

Pref/BT LE/LCH

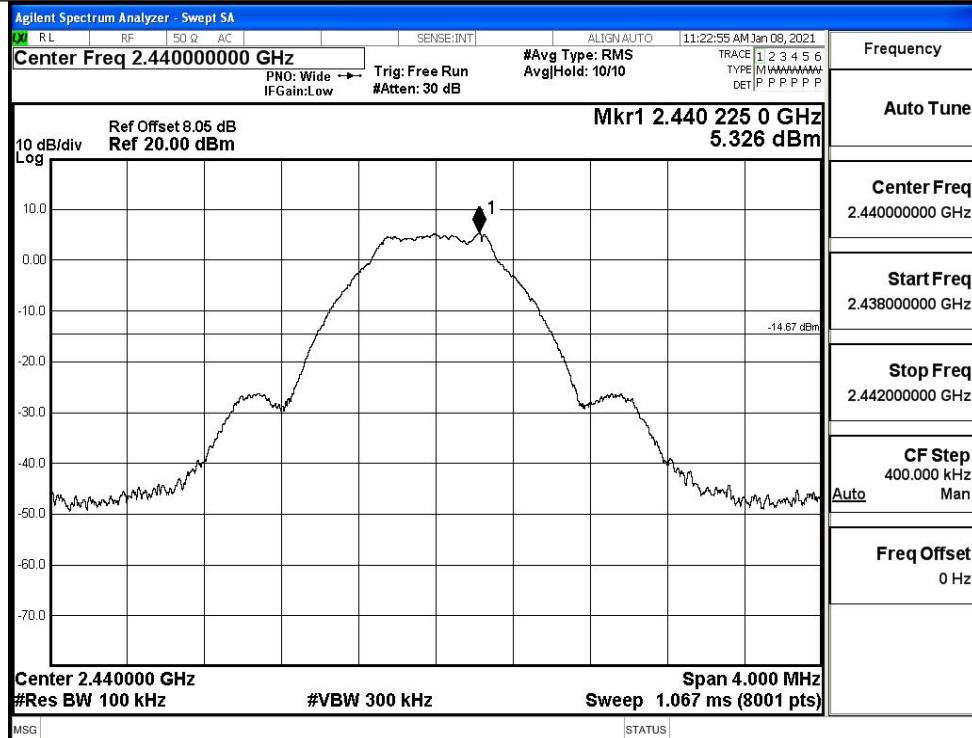


Puw/BT LE/LCH

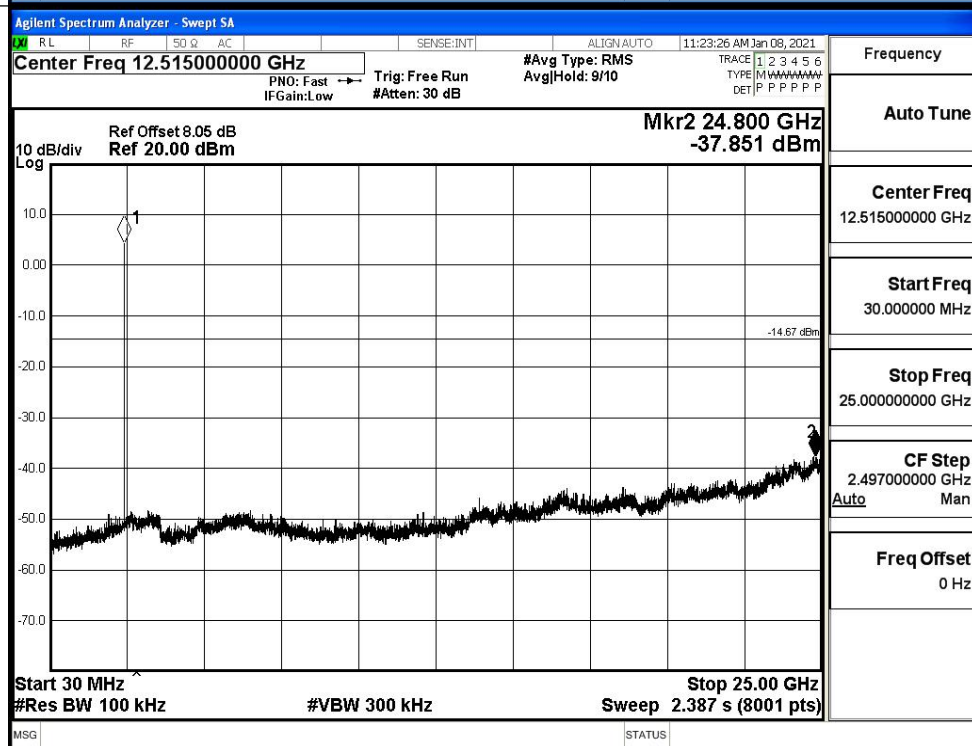


BT LE MCH Graphs

Pref/BT LE/MCH

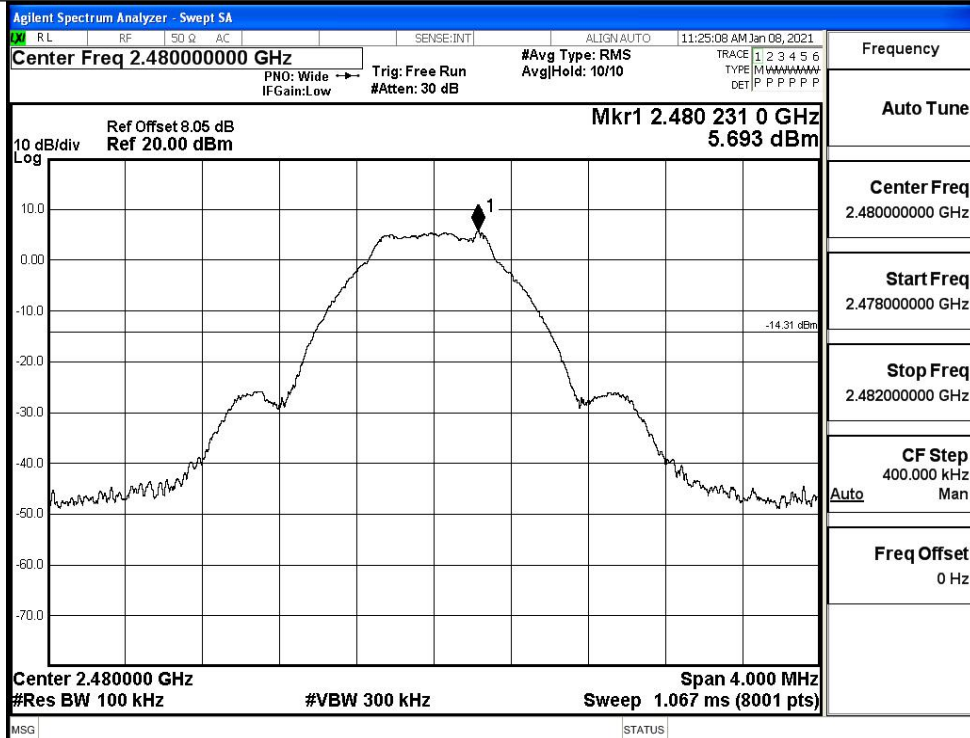


Puw/BT LE/MCH

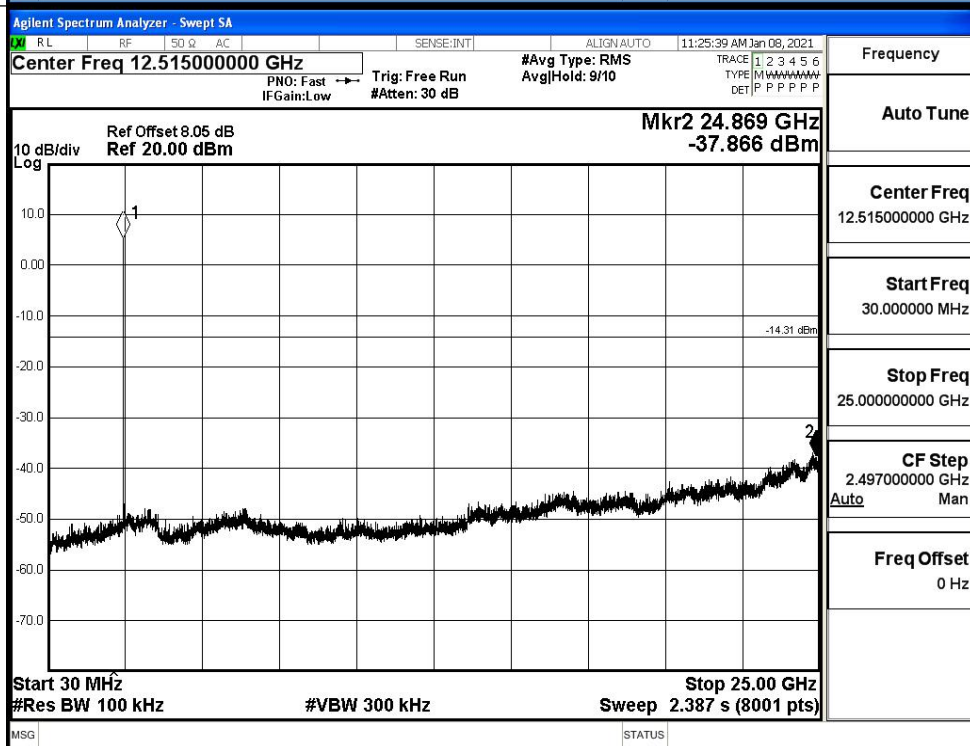


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

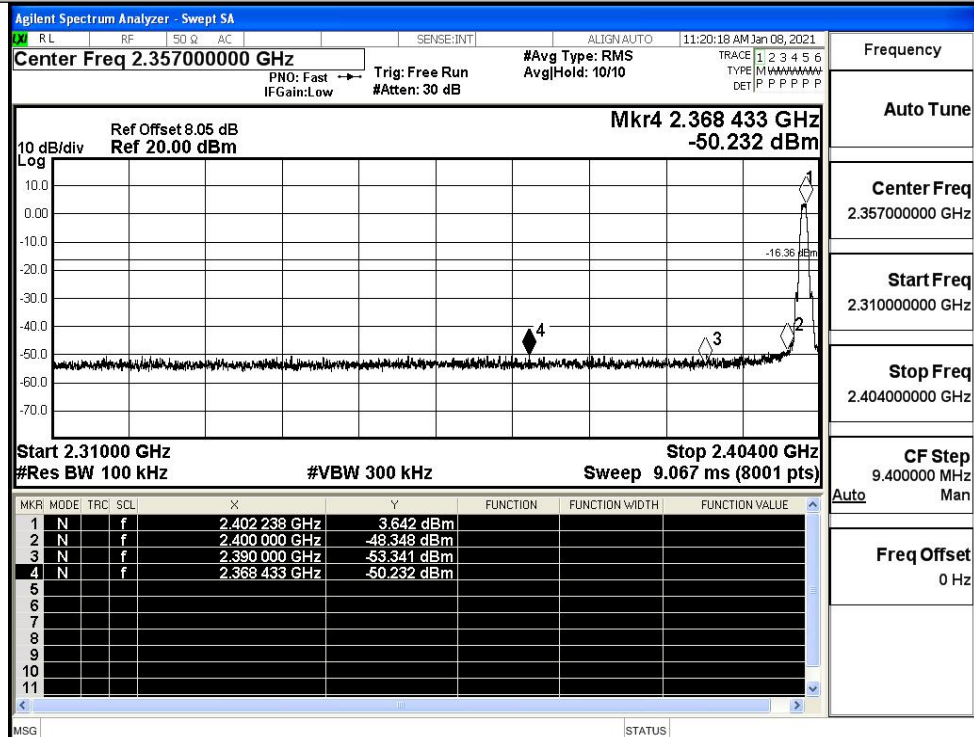


A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	3.642	-50.232	-16.36	PASS
BT LE	HCH	5.964	-47.196	-14.04	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

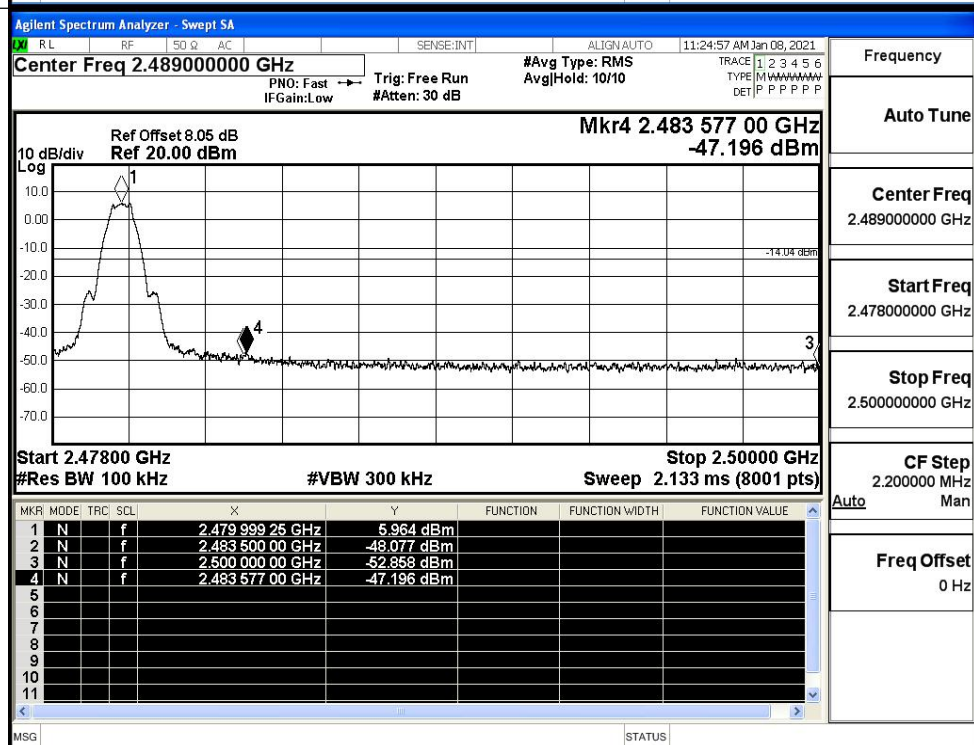
9.400000 MHz

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

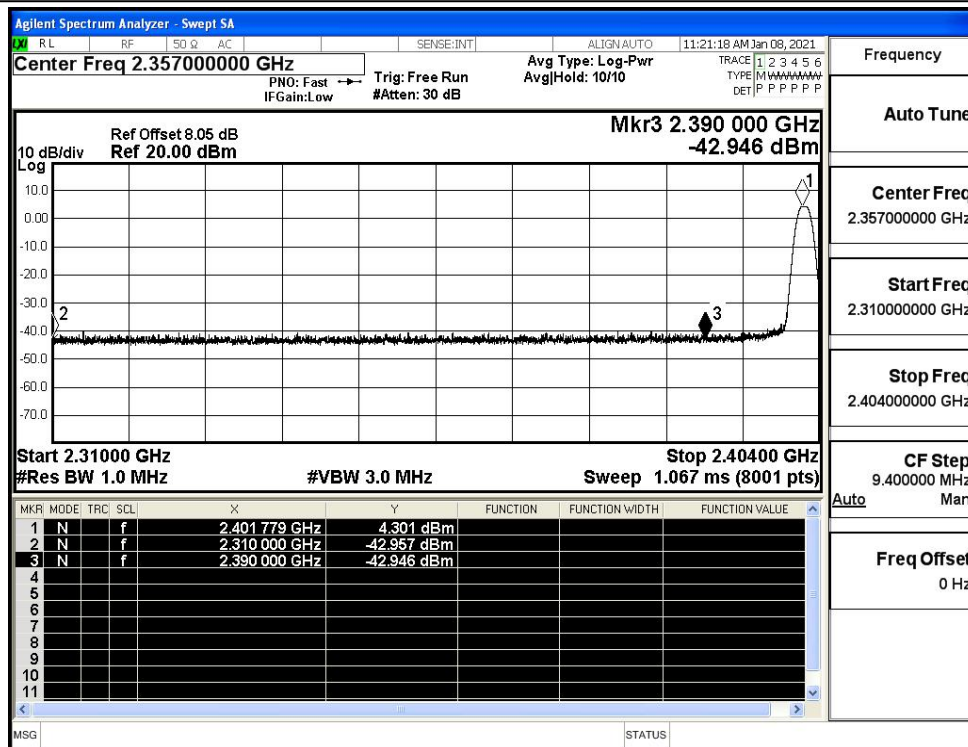
Freq Offset

0 Hz

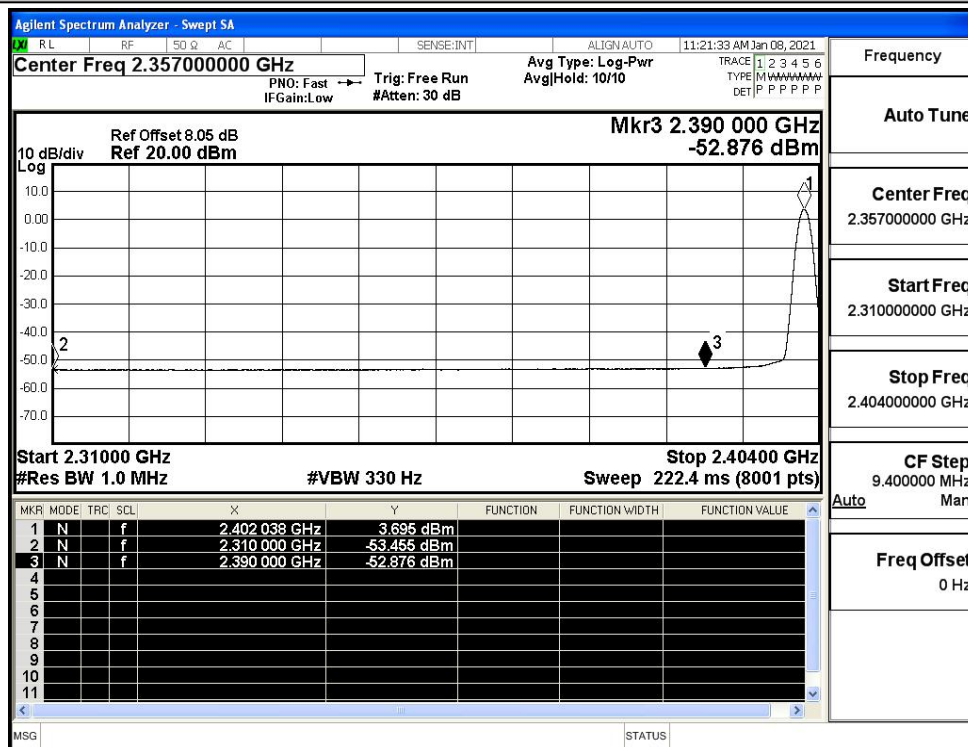
A.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
BT LE	2402	Ant1	2310.0	-42.96	2.0	0	54.27	PEAK	74	PASS
		Ant1	2310.0	-53.46	2.0	0	43.77	AV	54	PASS
		Ant1	2390.0	-42.95	2.0	0	54.28	PEAK	74	PASS
		Ant1	2390.0	-52.88	2.0	0	44.35	AV	54	PASS
	2480	Ant1	2483.5	-39.88	2.0	0	57.35	PEAK	74	PASS
		Ant1	2483.5	-48.82	2.0	0	48.41	AV	54	PASS
		Ant1	2500.0	-41.83	2.0	0	55.40	PEAK	74	PASS
		Ant1	2500.0	-52.35	2.0	0	44.88	AV	54	PASS

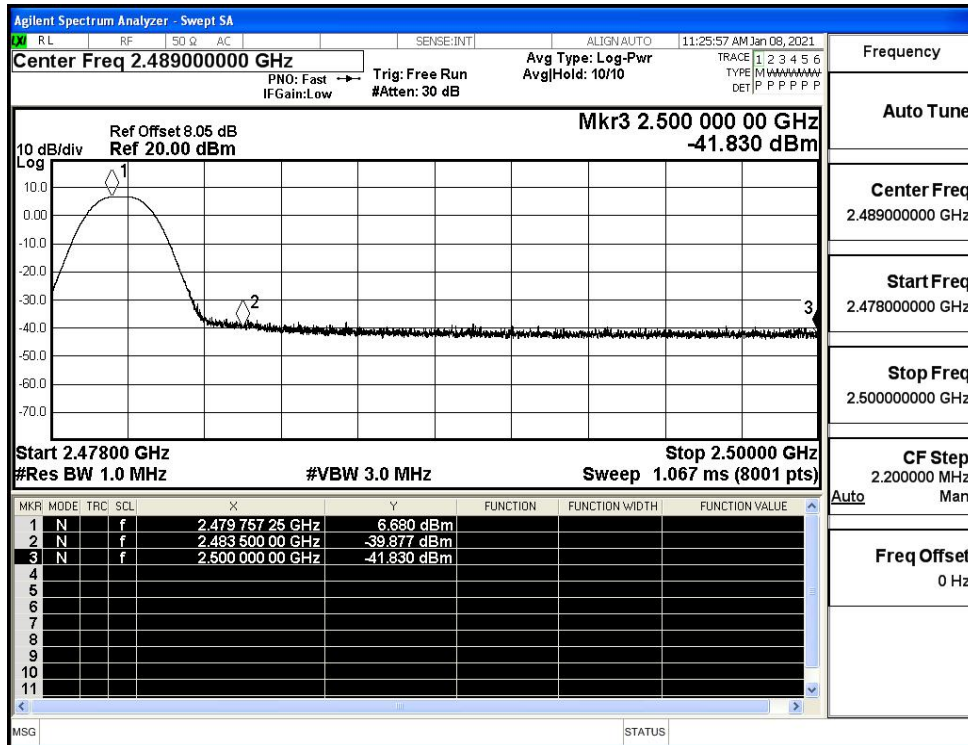
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

