

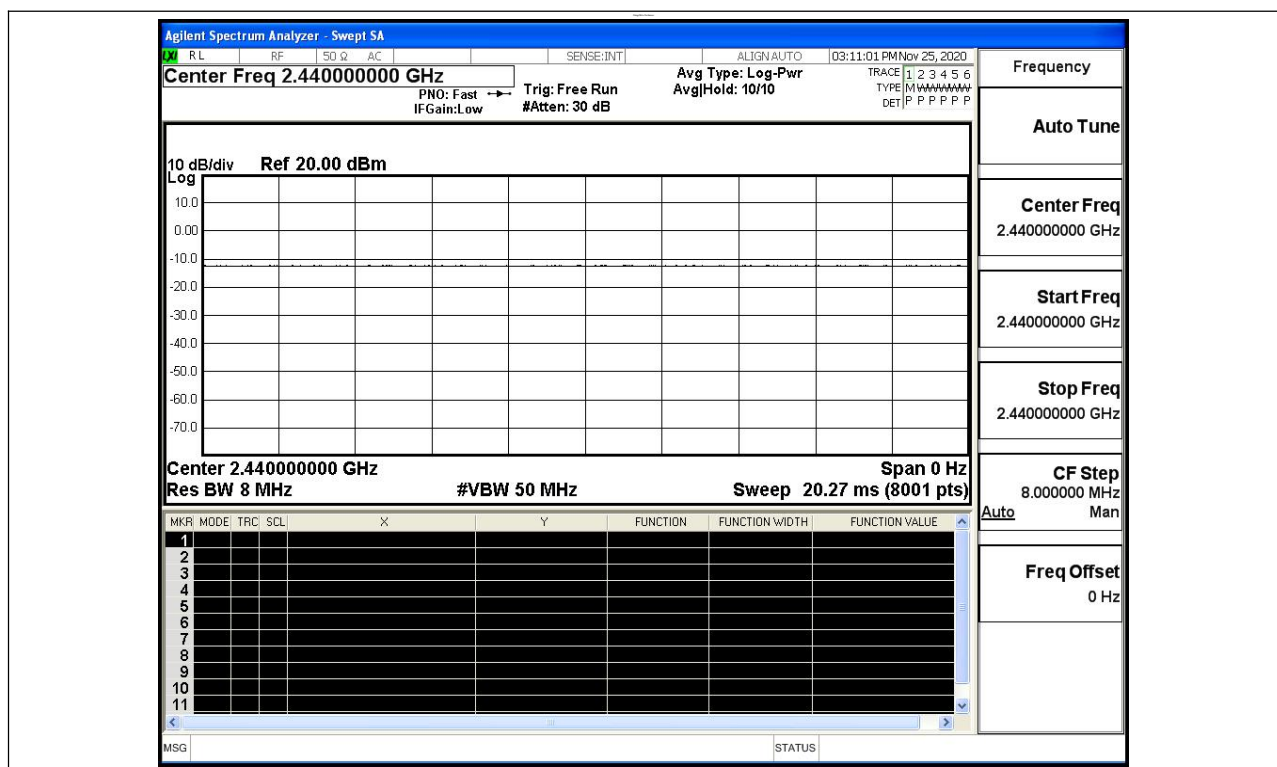
Appendix B
RF Test Data for BT V5.0(BDR/EDR) (Conducted Measurement)
Product Name: Bluetooth Tag/Bluetooth tracker
Trade Mark: Nerlos
Test Model: 30467

Environmental Conditions

Temperature:	22.3 ° C
Relative Humidity:	51.6%
ATM Pressure:	103.0 kPa
Test Engineer:	Dancy Chen
Supervised by:	Li Huan

B.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT 2LE	2440	Ant1	100	PASS

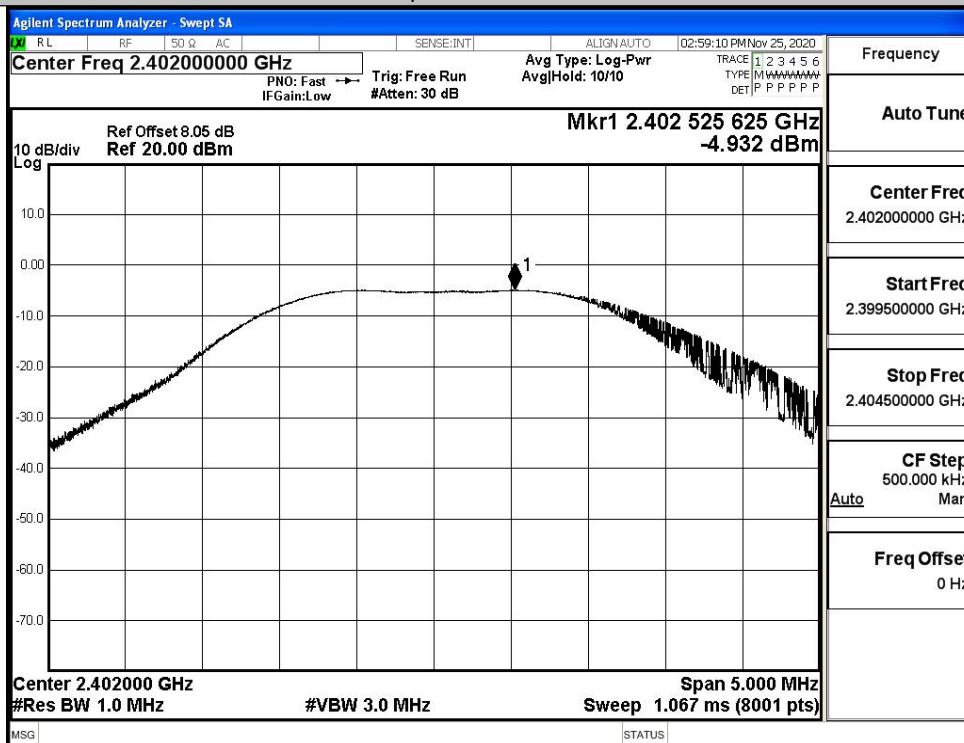


B.2 Maximum Conducted Peak Output Power

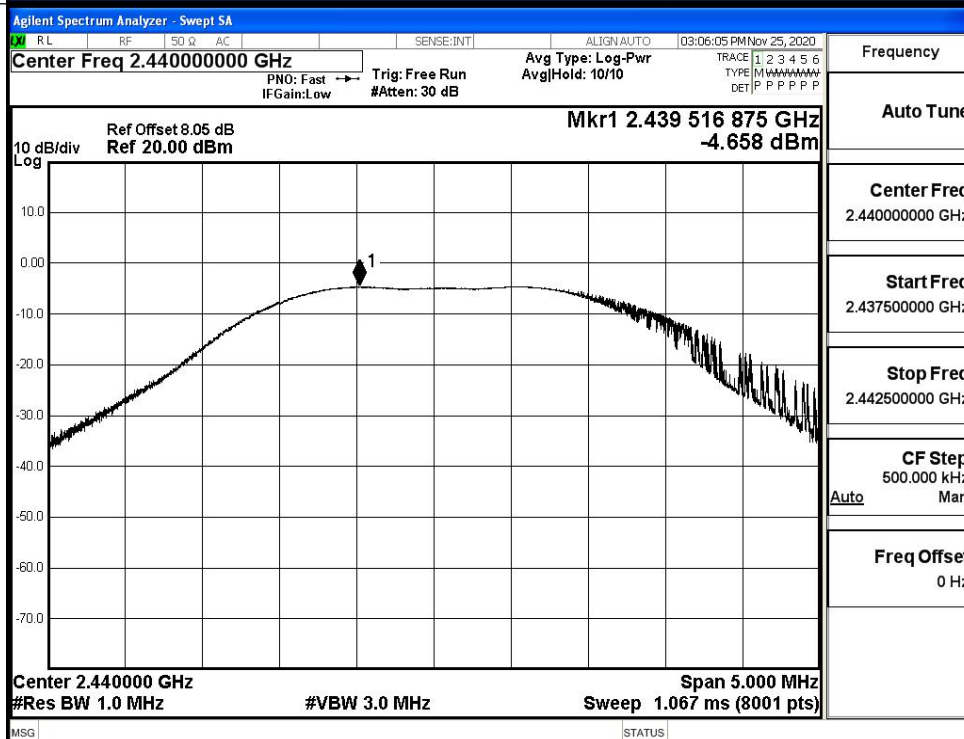
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT 2LE	LCH	-4.932	30	PASS
BT 2LE	MCH	-4.658	30	PASS
BT 2LE	HCH	-4.707	30	PASS

Test Graphs

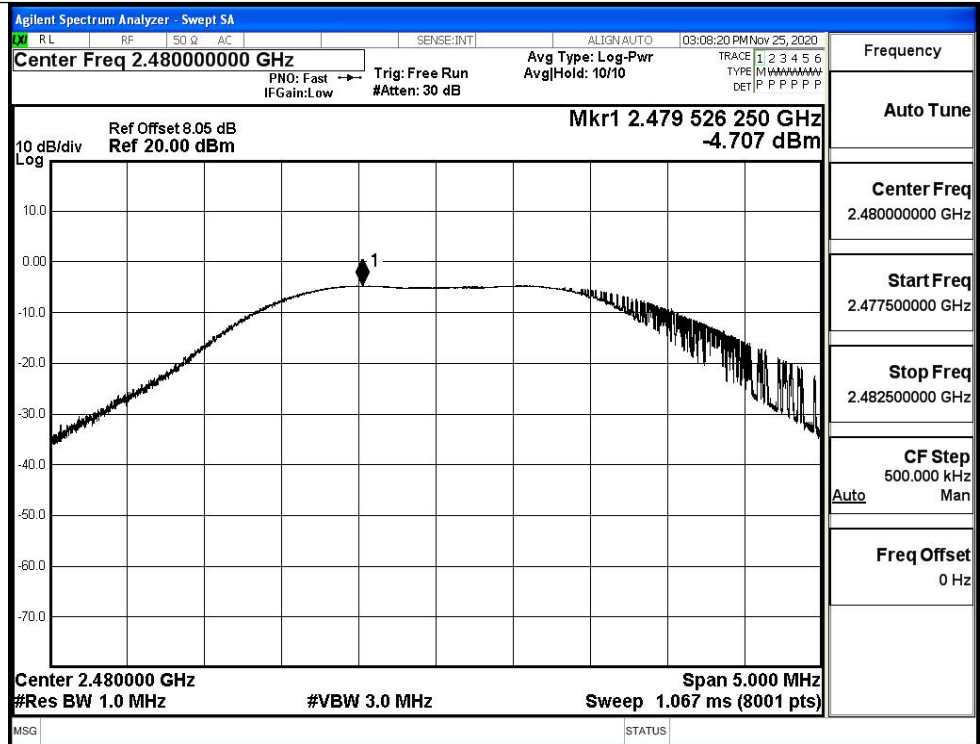
LCH



MCH



HCH

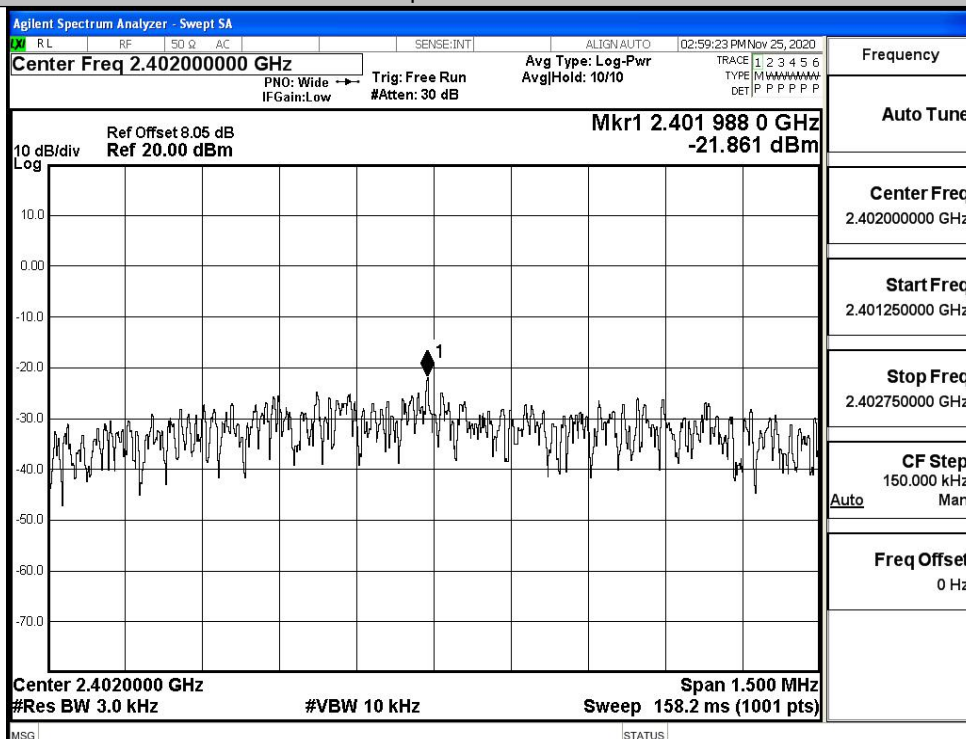


B.3 Maximum Power Spectral Density

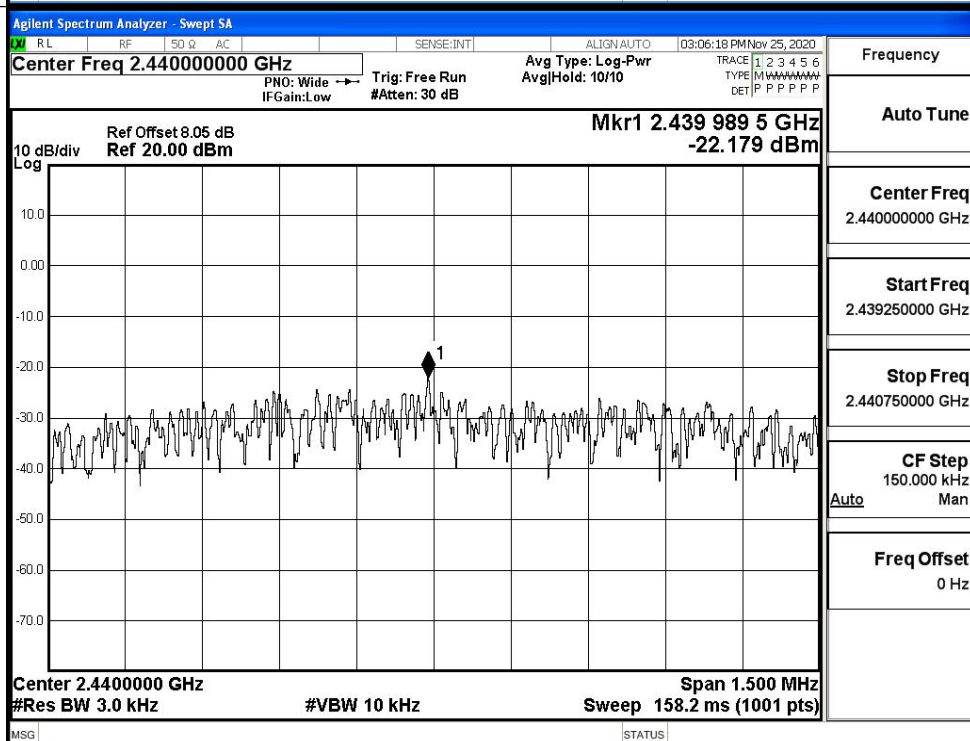
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT 2LE	LCH	-21.861	8	PASS
BT 2LE	MCH	-22.179	8	PASS
BT 2LE	HCH	-22.001	8	PASS

Test Graphs

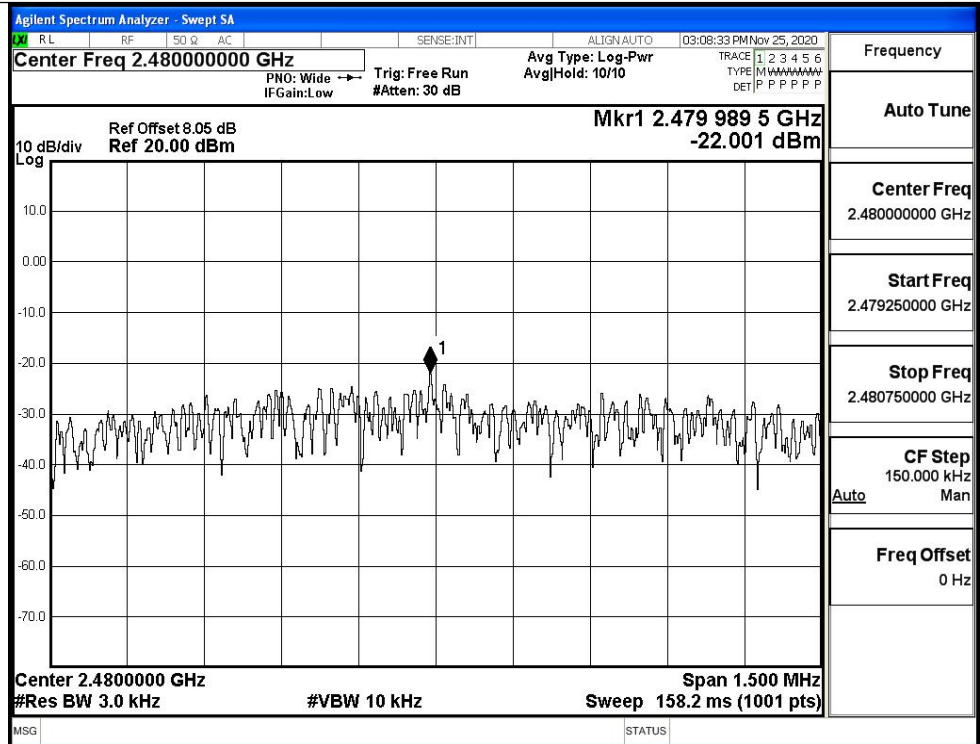
LCH



MCH



HCH

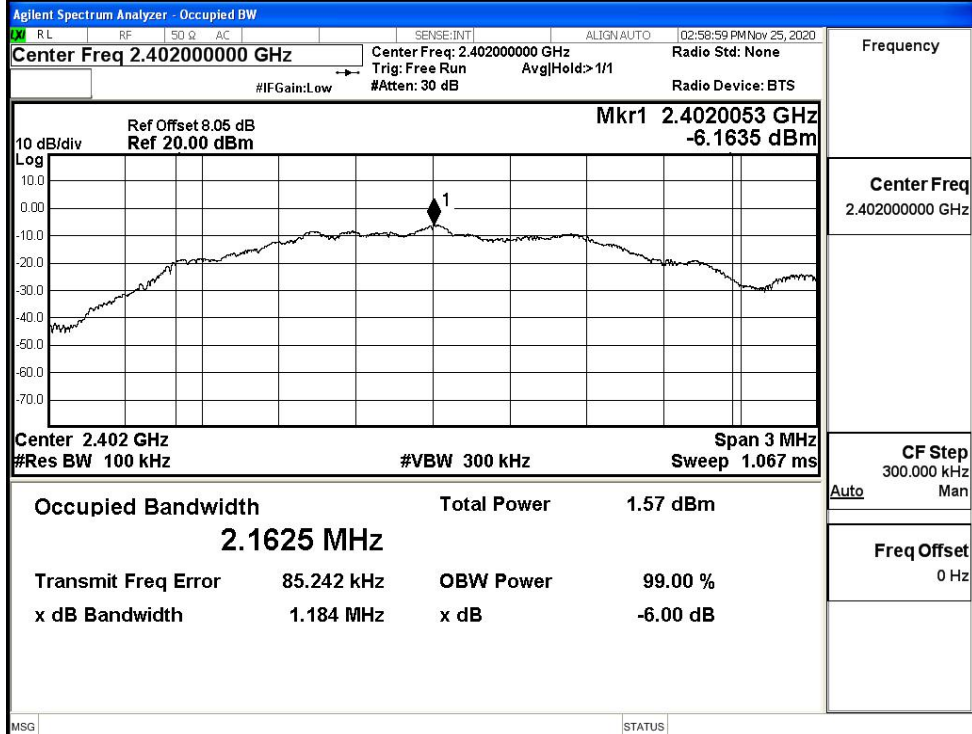


B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT 2LE	LCH	1.184	≥ 0.5	PASS
BT 2LE	MCH	1.197	≥ 0.5	PASS
BT 2LE	HCH	1.233	≥ 0.5	PASS

Test Graphs

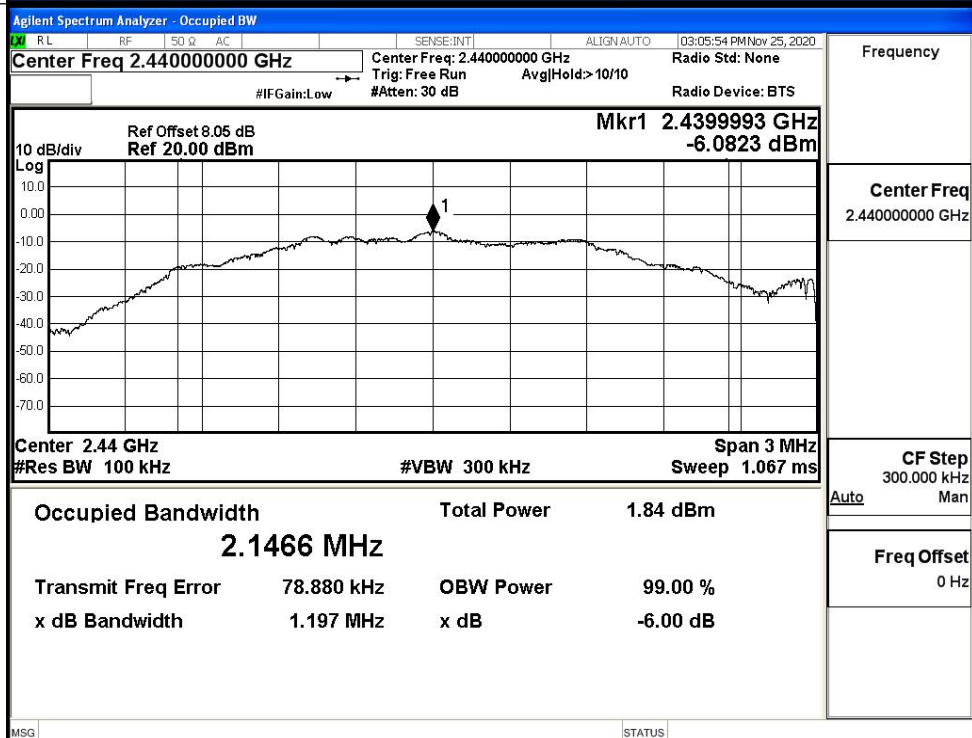
LCH



Frequency

Center Freq
2.402000000 GHzCF Step
300.000 kHz
Auto ManFreq Offset
0 Hz

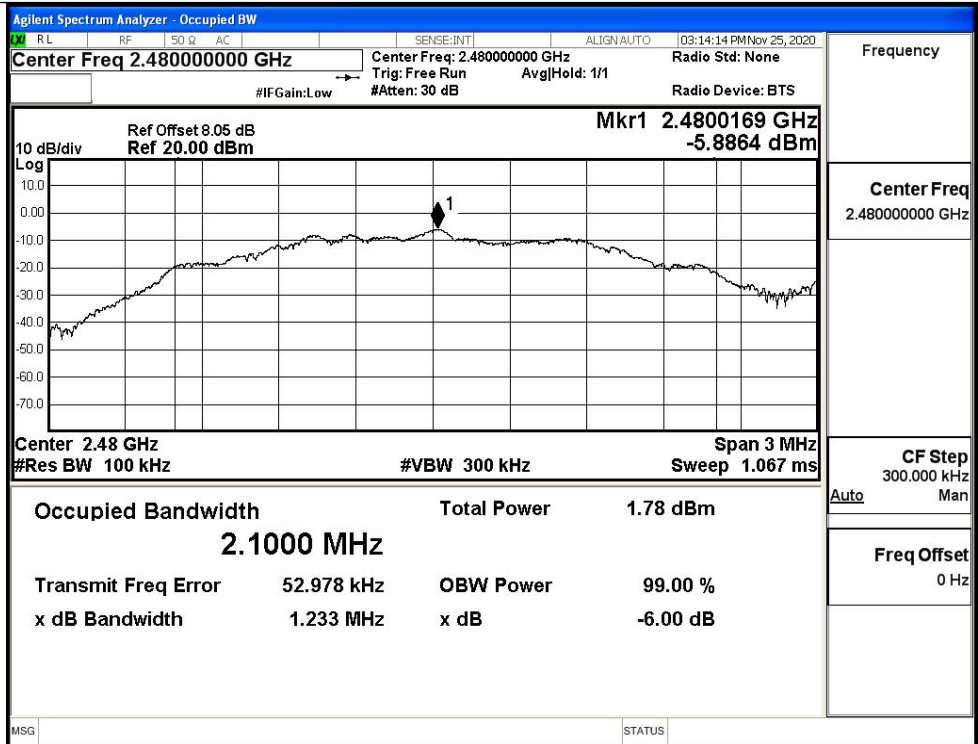
MCH



Frequency

Center Freq
2.440000000 GHzCF Step
300.000 kHz
Auto ManFreq Offset
0 Hz

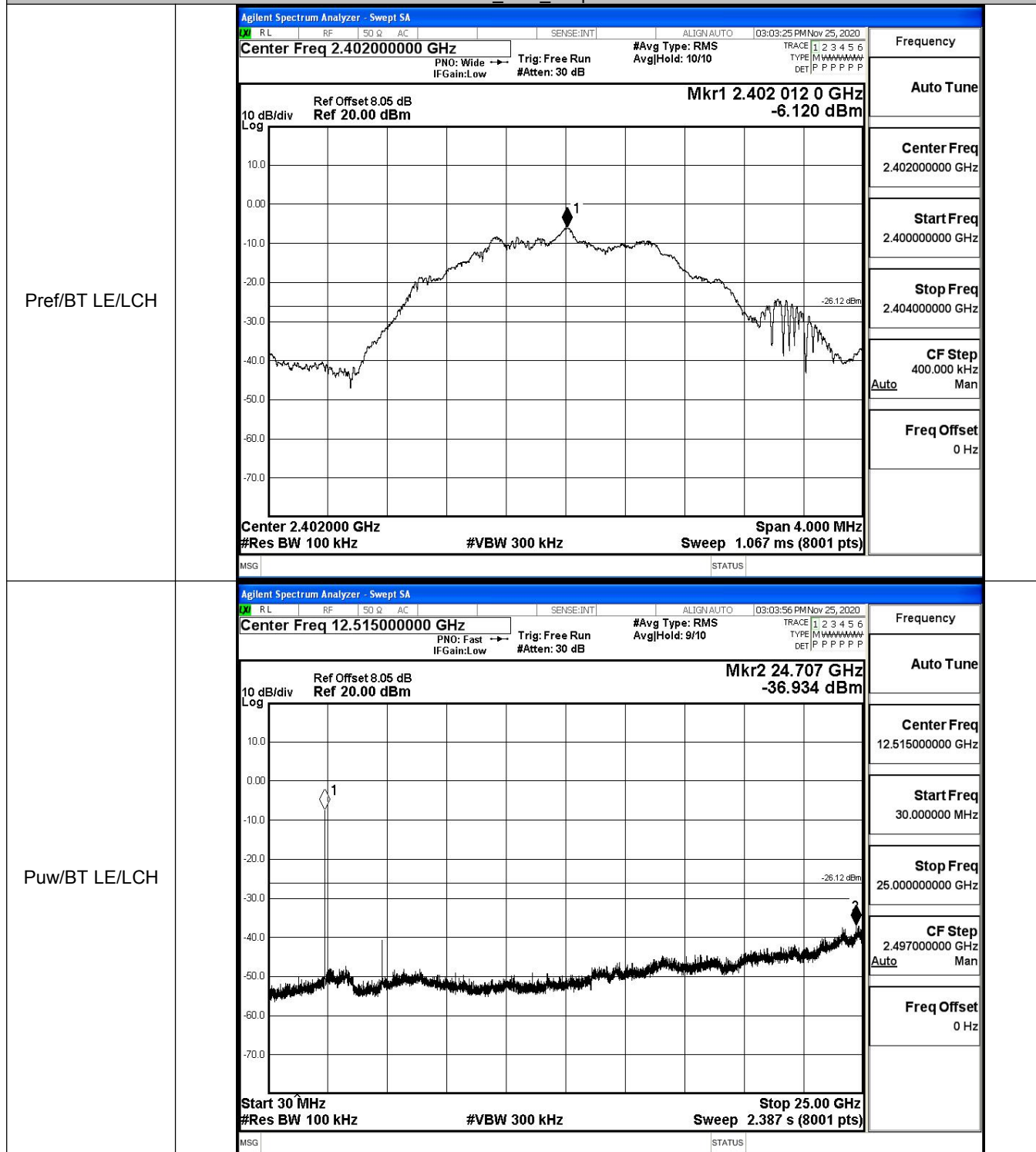
HCH



B.5 RF Conducted Spurious Emissions

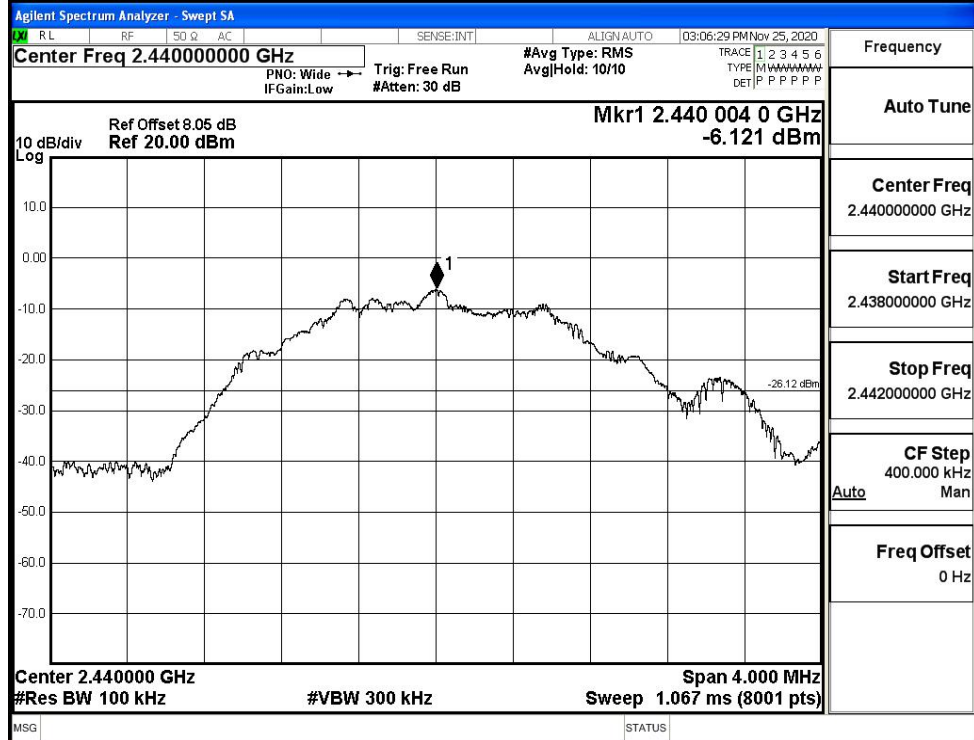
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT 2LE	LCH	-6.12	-36.934	-26.120	PASS
BT 2LE	MCH	-6.121	-36.897	-26.121	PASS
BT 2LE	HCH	-6.027	-37.268	-26.027	PASS

BT LE_LCH_Graphs

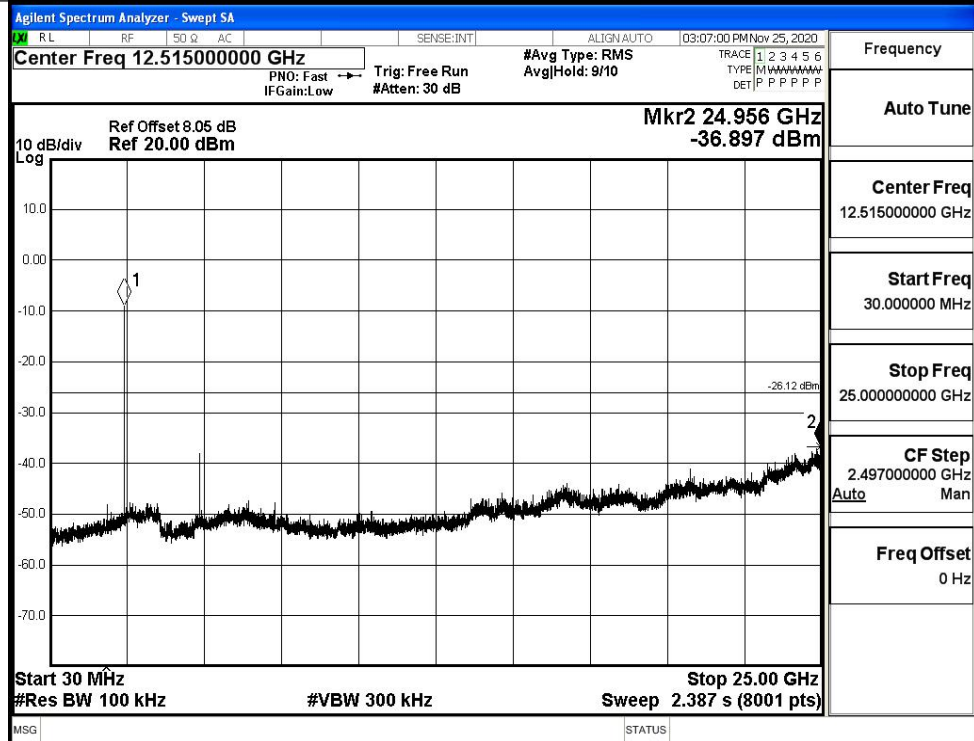


BT LE MCH Graphs

Pref/BT LE/MCH

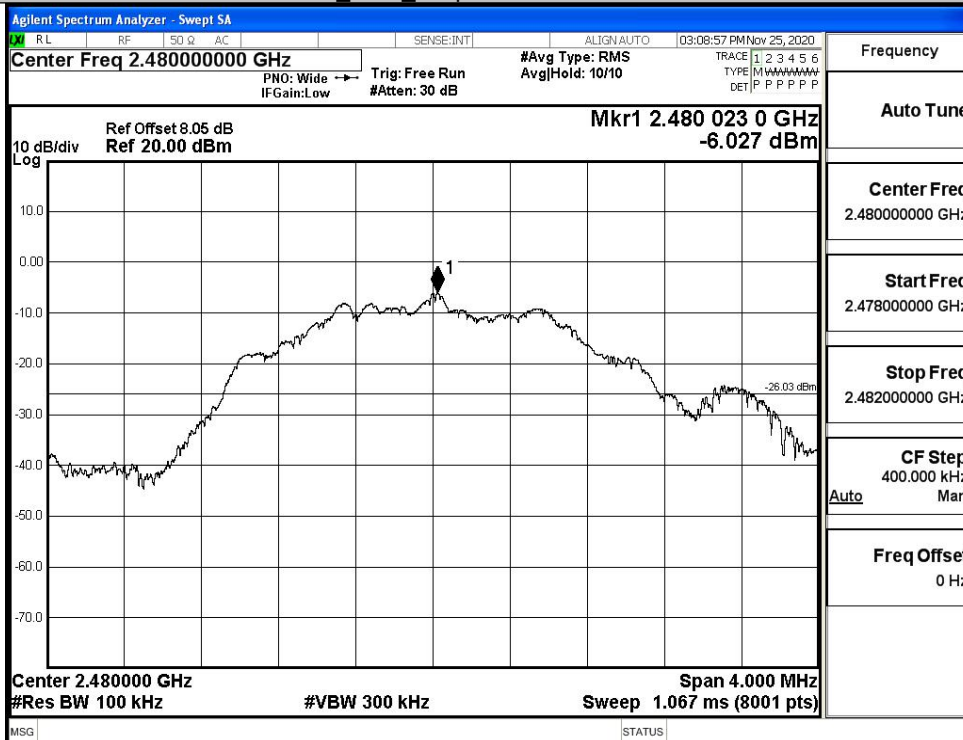


Puw/BT LE/MCH



BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

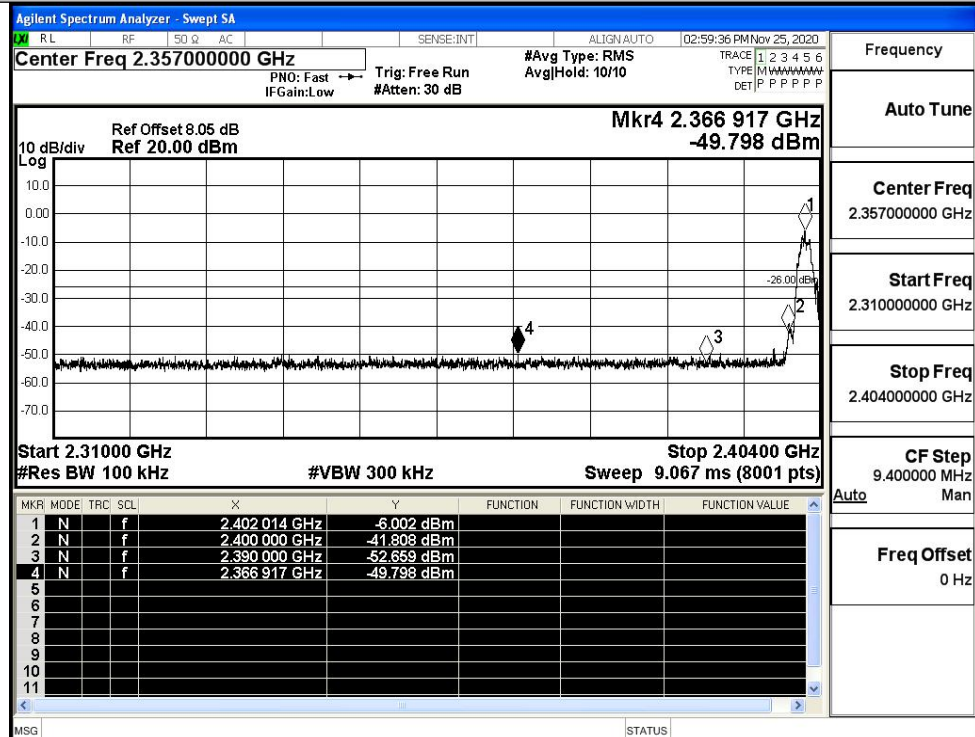


B.6 Band-edge for RF Conducted Emissions

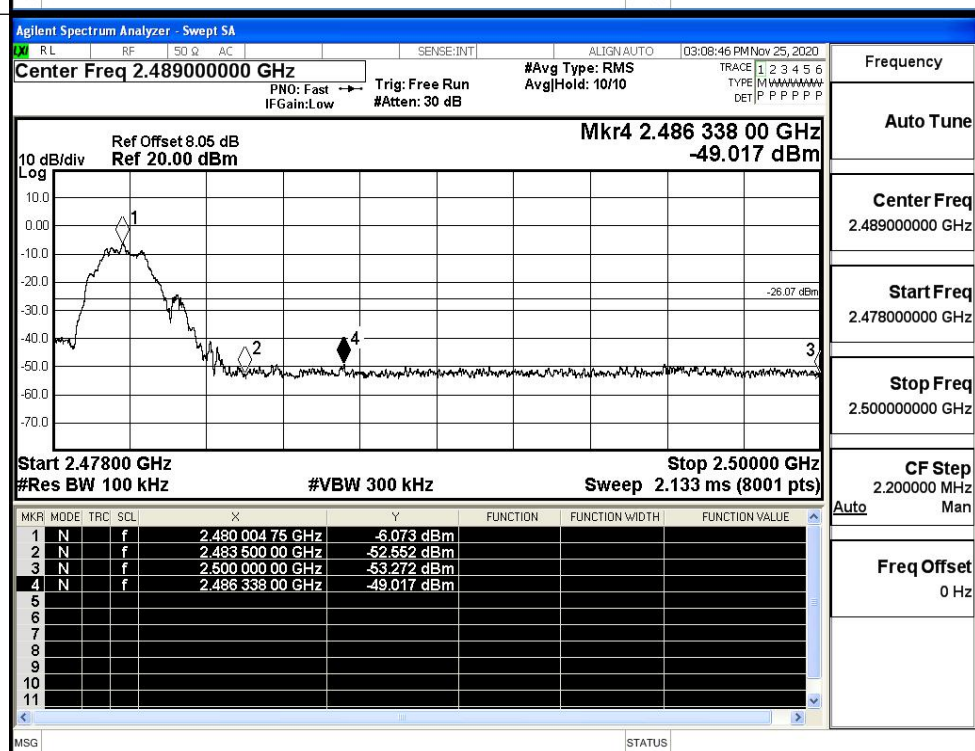
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT 2LE	LCH	-6.002	-49.798	-26	PASS
BT 2LE	HCH	-6.073	-49.017	-26.07	PASS

Test Graphs

LCH



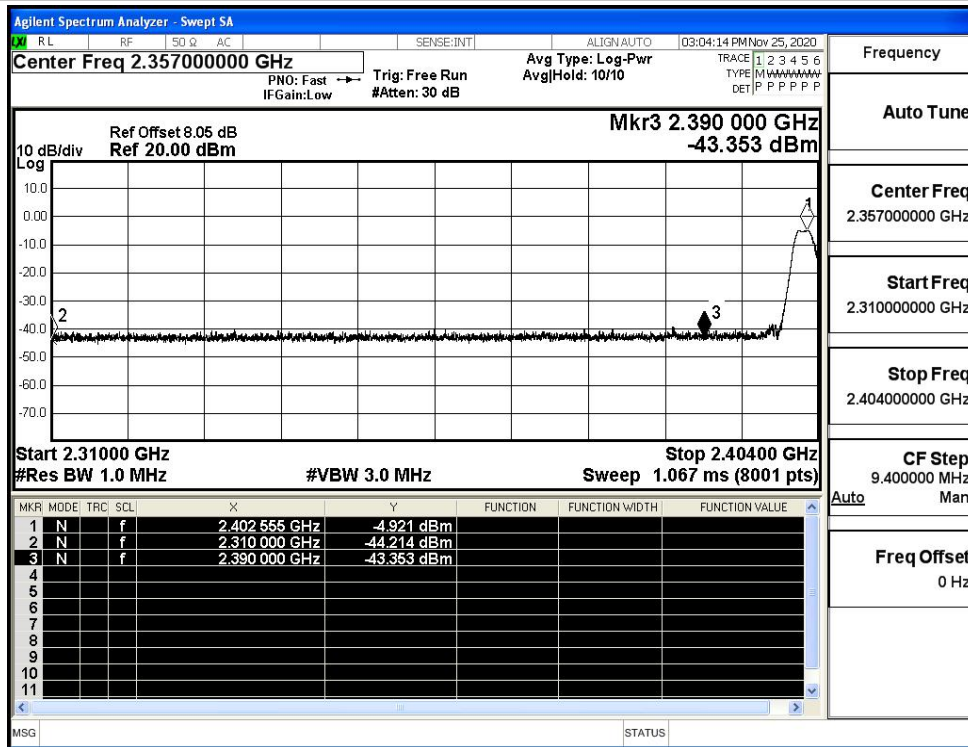
HCH



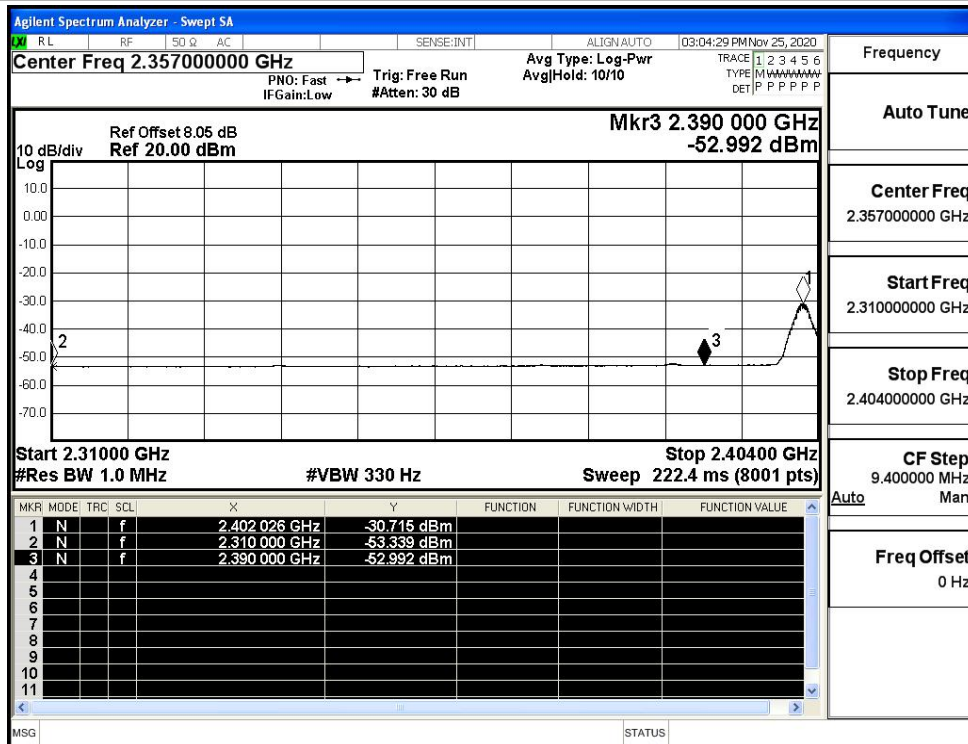
B.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT 2LE	2402	Ant1	2310.0	-44.21	2.0	0	53.02	PEAK	74	PASS
		Ant1	2310.0	-53.34	2.0	0	43.89	AV	54	PASS
		Ant1	2390.0	-43.35	2.0	0	53.88	PEAK	74	PASS
		Ant1	2390.0	-52.99	2.0	0	44.24	AV	54	PASS
	2480	Ant1	2483.5	-41.51	2.0	0	55.72	PEAK	74	PASS
		Ant1	2483.5	-52.22	2.0	0	45.01	AV	54	PASS
		Ant1	2500.0	-41.27	2.0	0	55.96	PEAK	74	PASS
		Ant1	2500.0	-52.35	2.0	0	44.88	AV	54	PASS

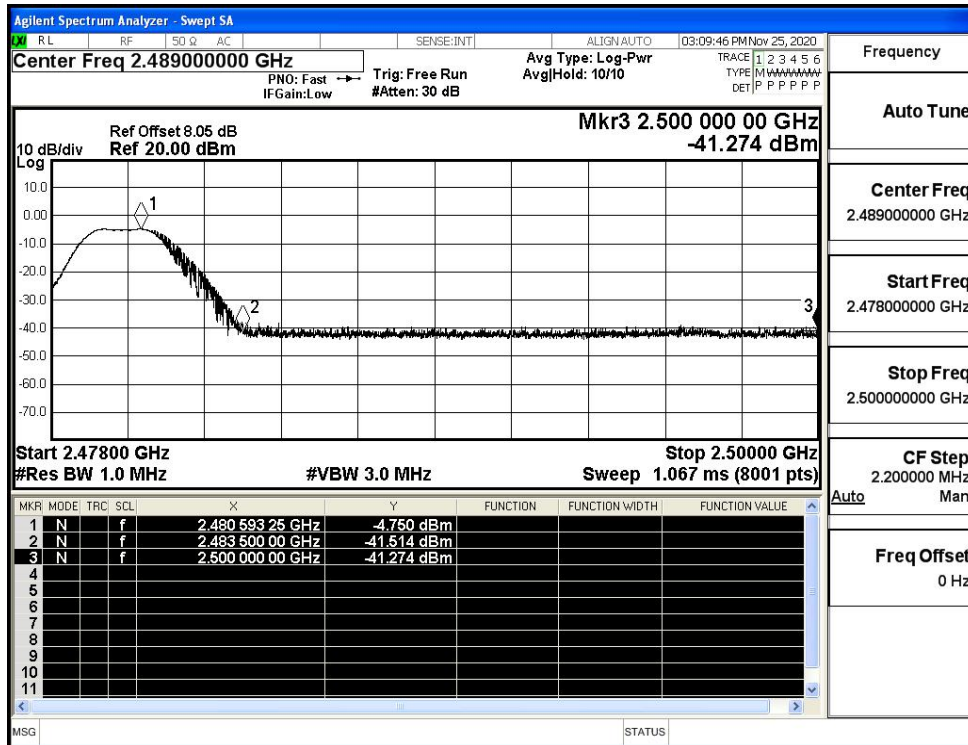
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

