

Appendix B

RF Test Data for BT V4.0 (BT LE) (Conducted Measurement)

Product Name: DONGLE

Trade Mark: N/A

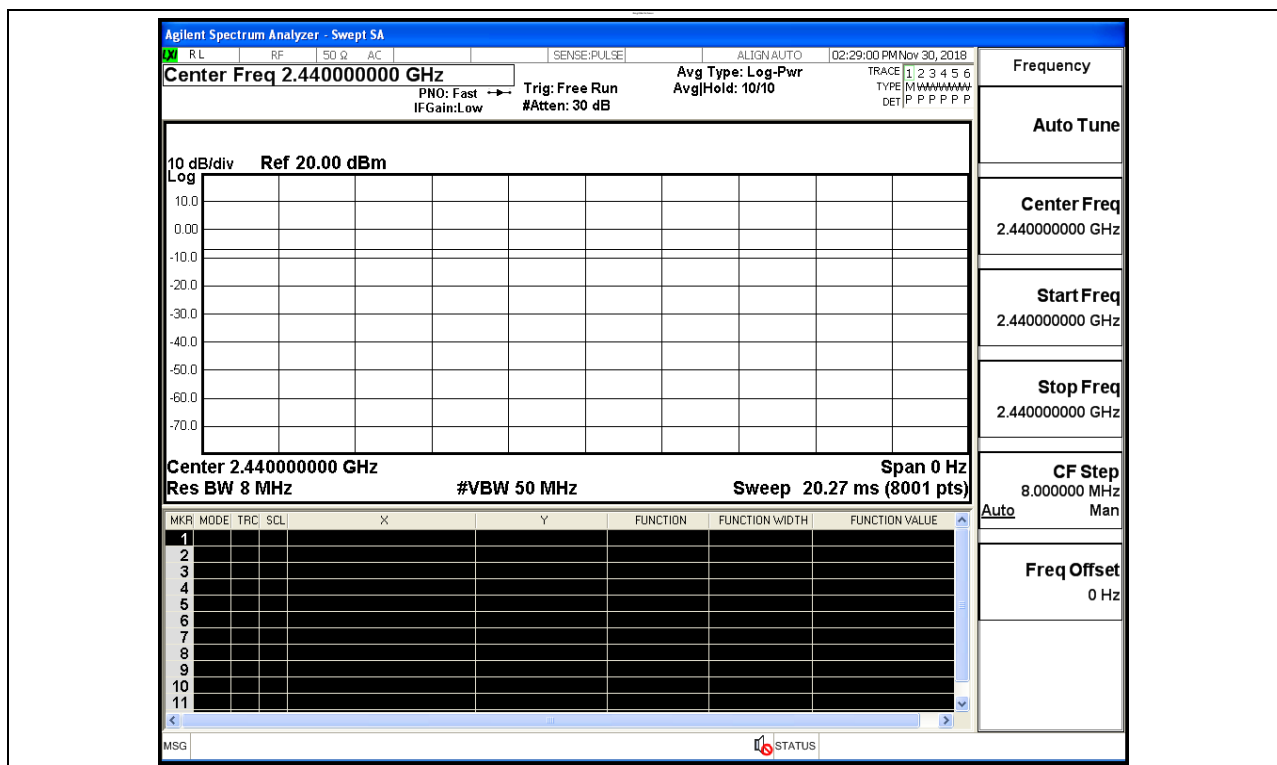
Test Model: BW0810-SP3E-R

Environmental Conditions

Temperature:	24.5 ° C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	WANGCHUANG
Supervised by:	Jayden.Zhuo

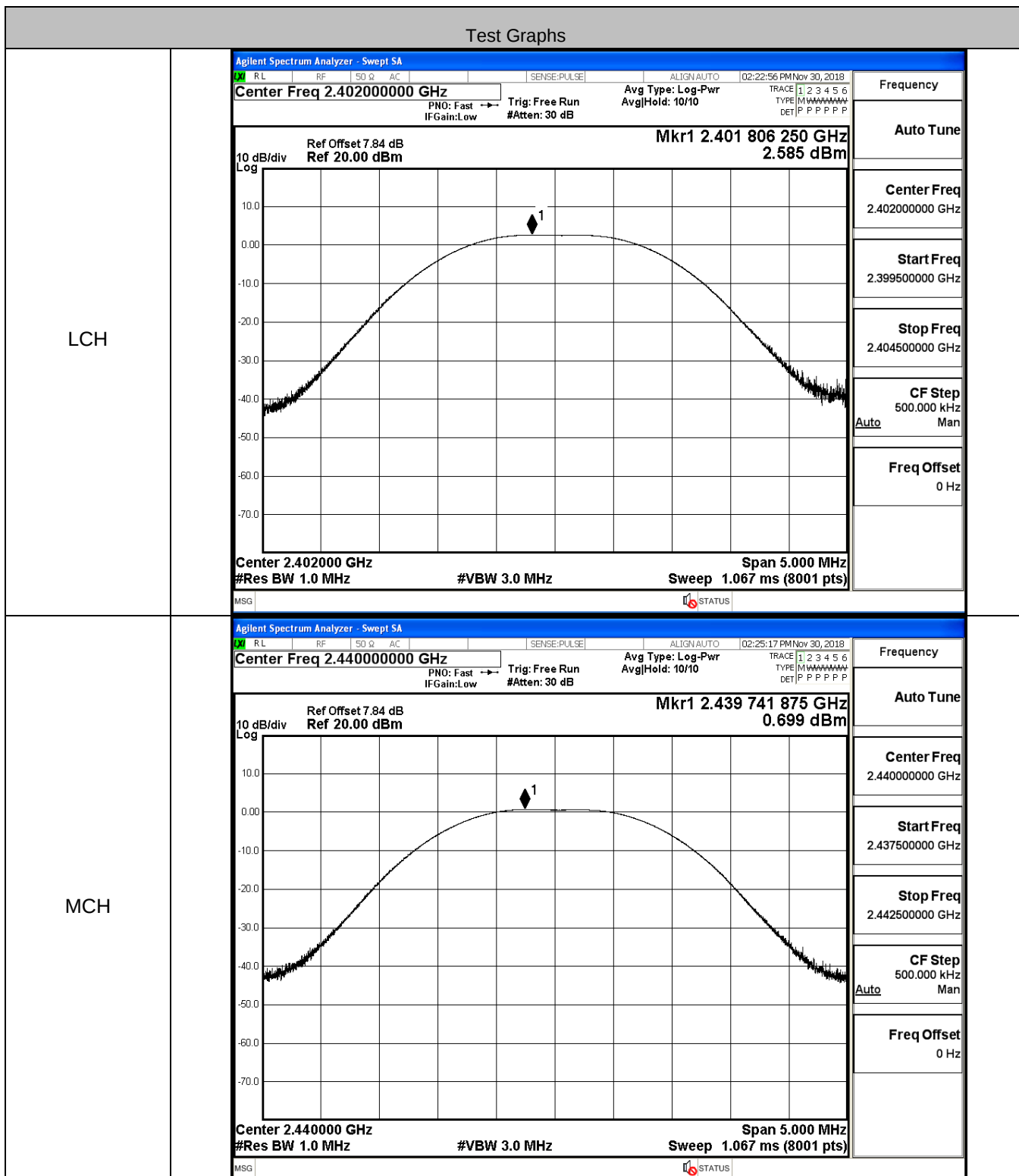
B.1 Duty Cycle

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

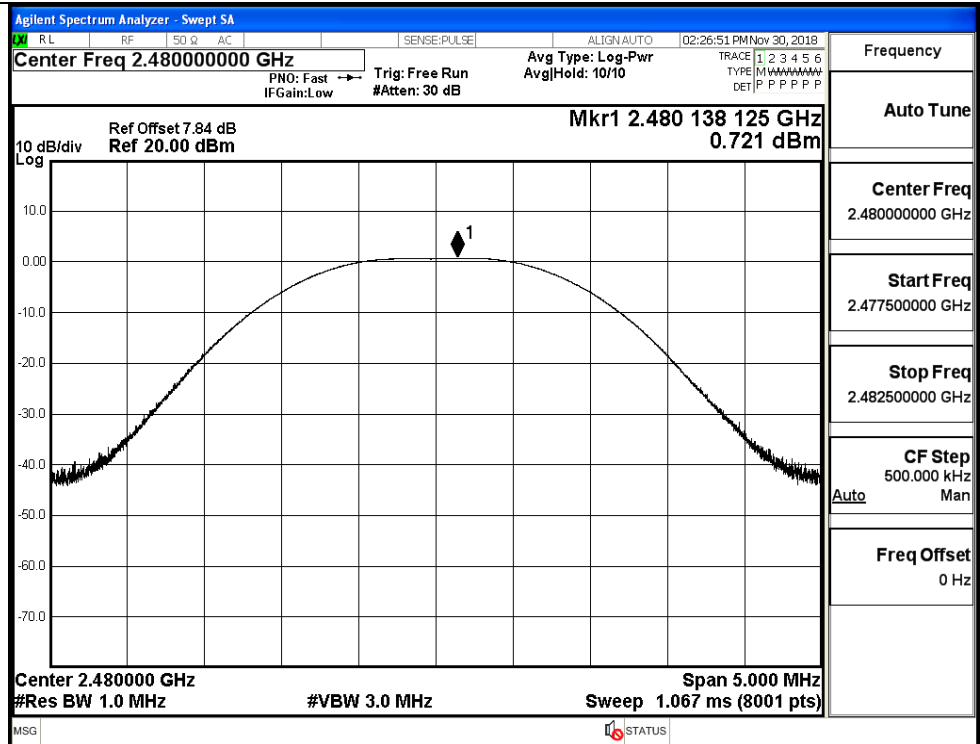


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.585	30	PASS
BT LE	MCH	0.699	30	PASS
BT LE	HCH	0.721	30	PASS



HCH

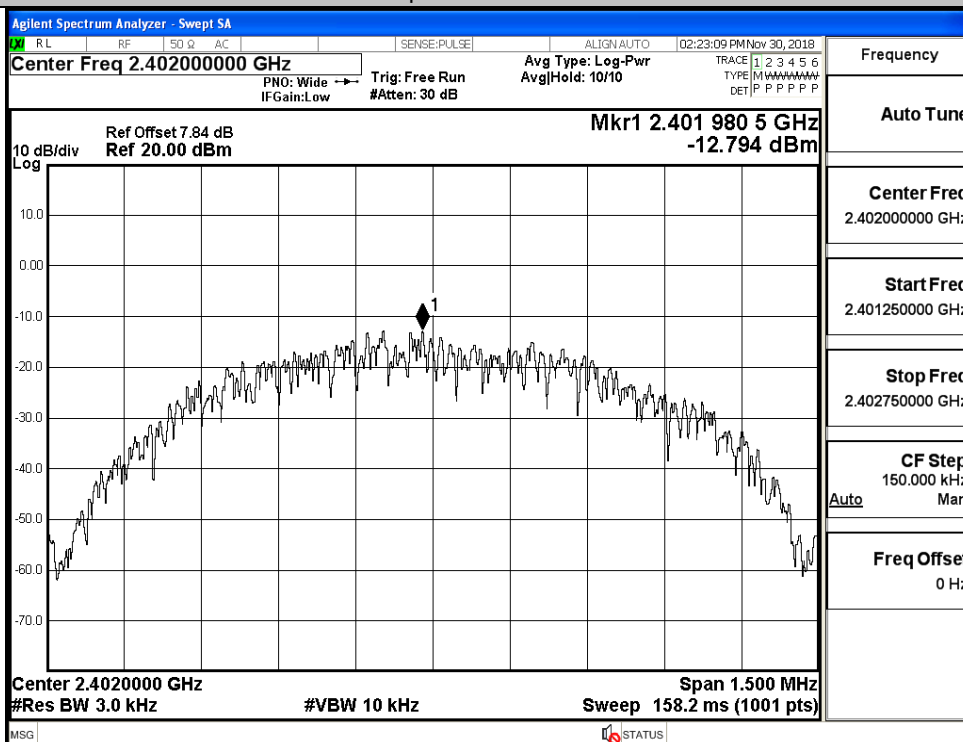


B.3 Maximum Power Spectral Density

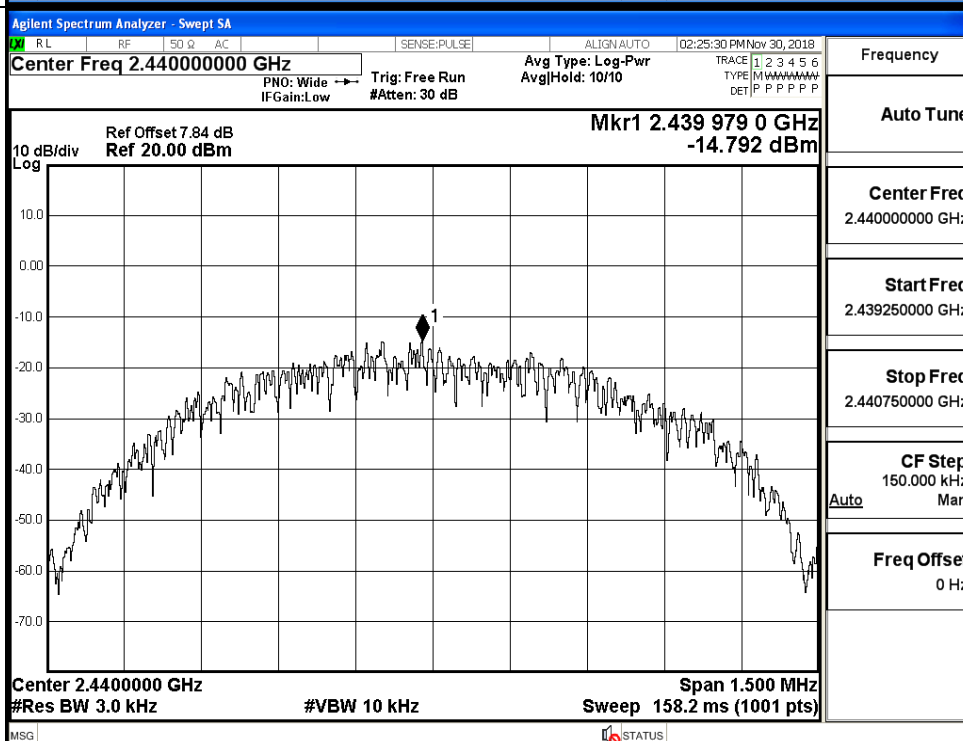
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-12.794	8	PASS
BT LE	MCH	-14.792	8	PASS
BT LE	HCH	-14.721	8	PASS

Test Graphs

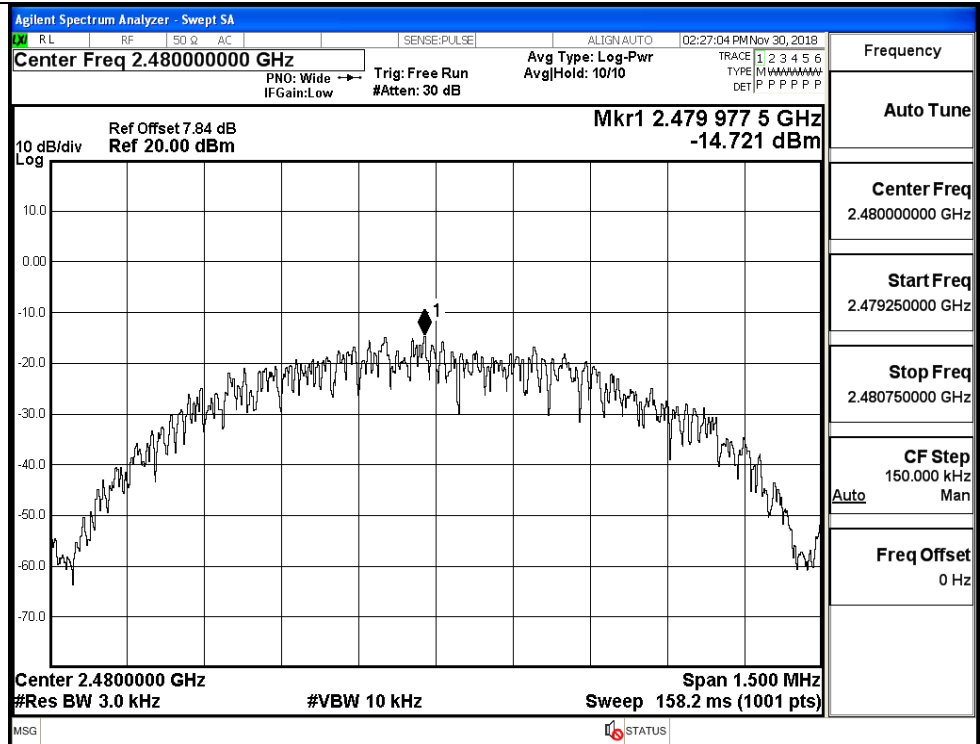
LCH



MCH



HCH

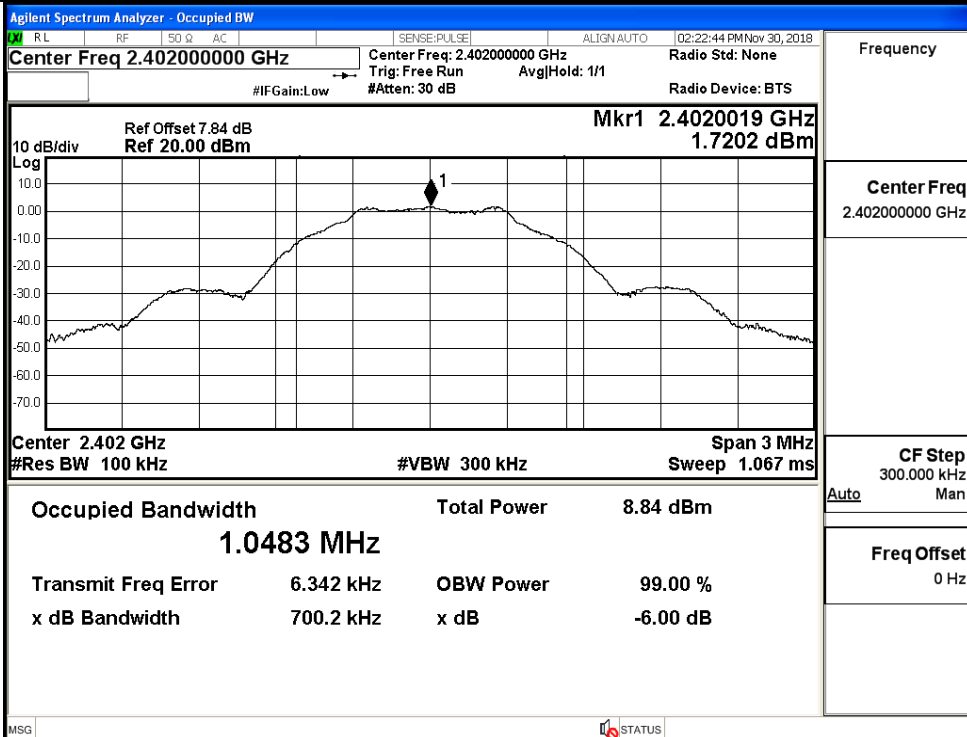


B.4 6dB Bandwidth

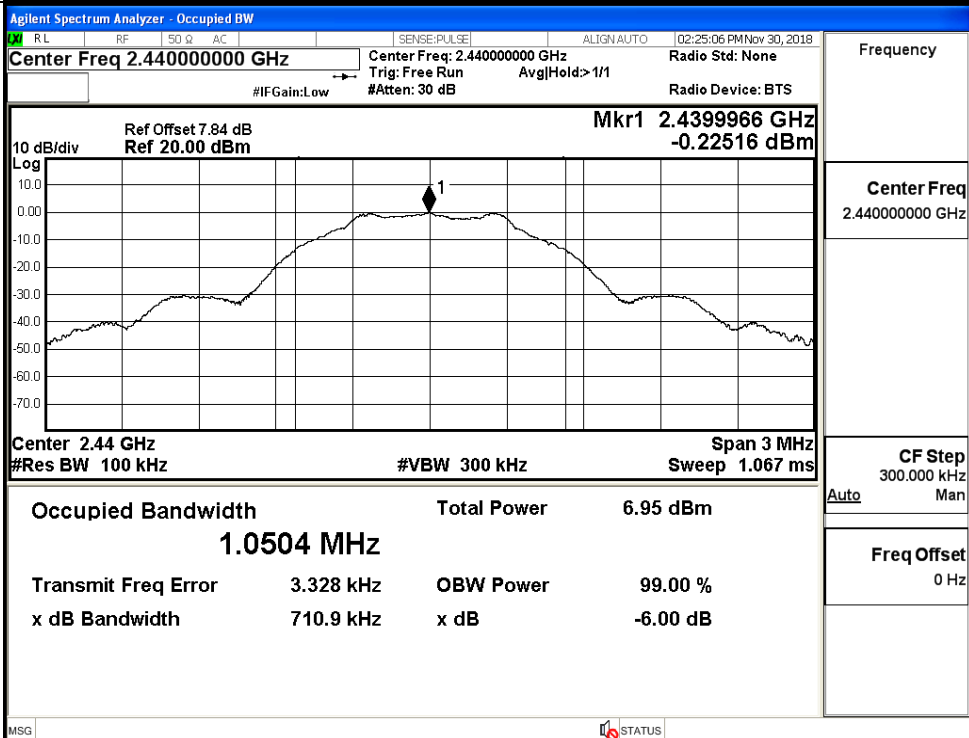
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7002	≥ 0.5	PASS
BT LE	MCH	0.7109	≥ 0.5	PASS
BT LE	HCH	0.7094	≥ 0.5	PASS

Test Graphs

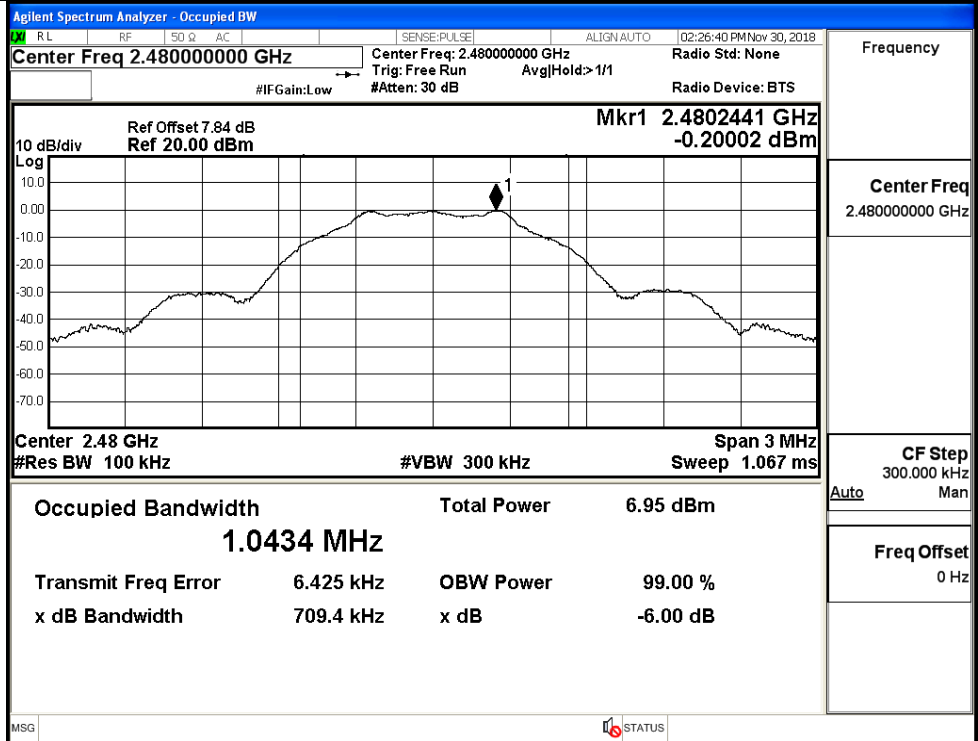
LCH



MCH



HCH

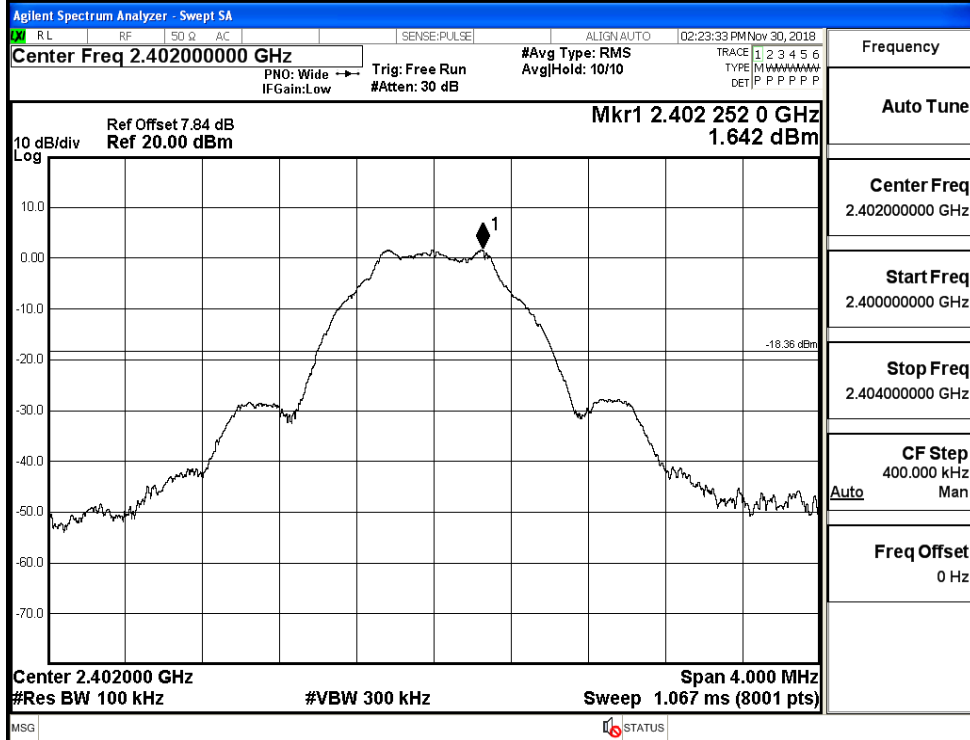


B.5 RF Conducted Spurious Emissions

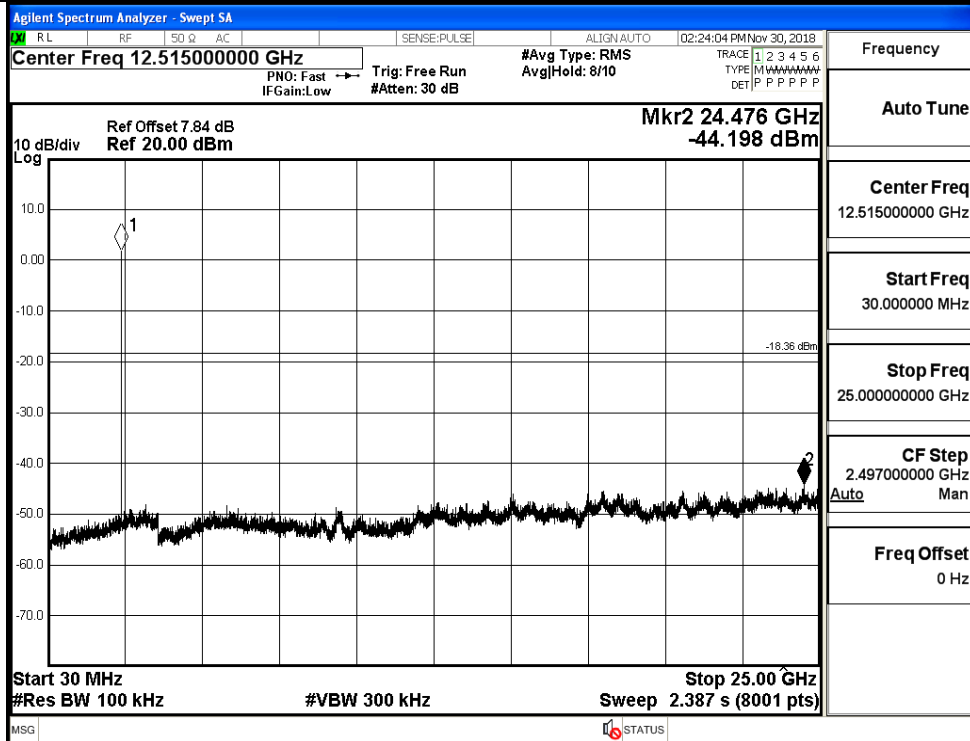
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.642	-44.198	-18.358	PASS
BT LE	MCH	-0.253	-44.255	-20.253	PASS
BT LE	HCH	-0.225	-43.579	-20.225	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

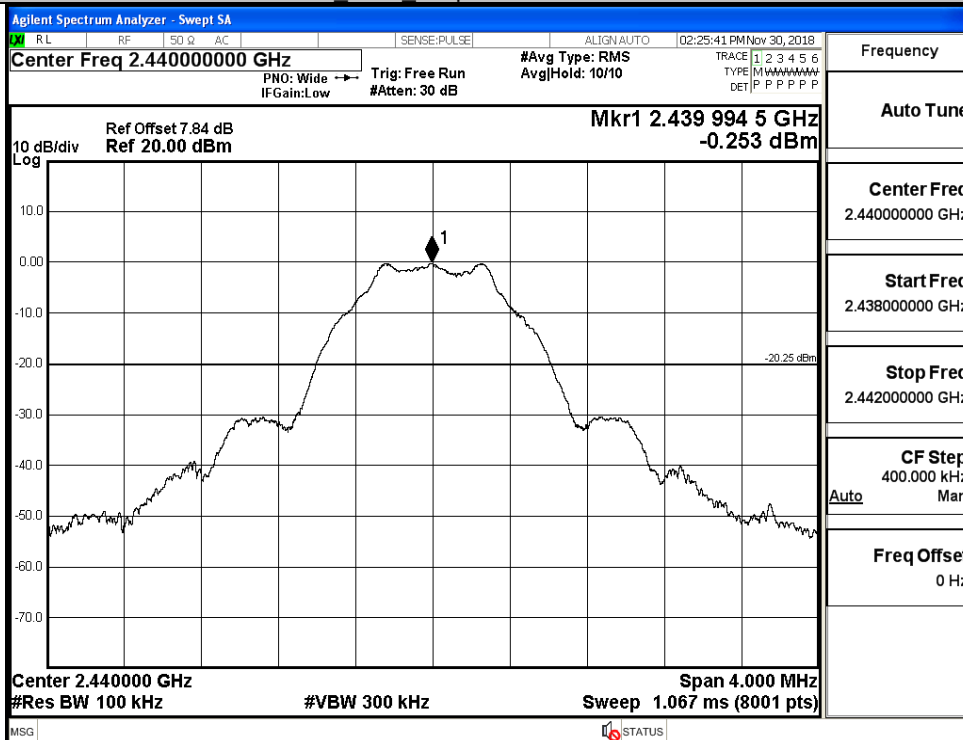


Puw/BT LE/LCH

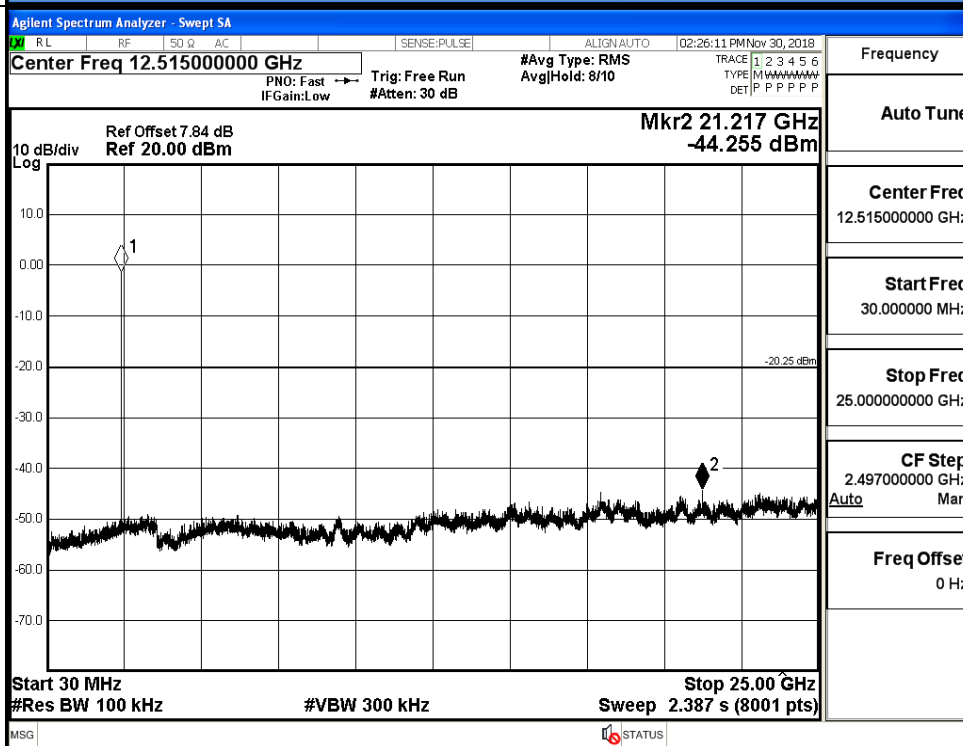


BT LE MCH Graphs

Pref/BT LE/MCH

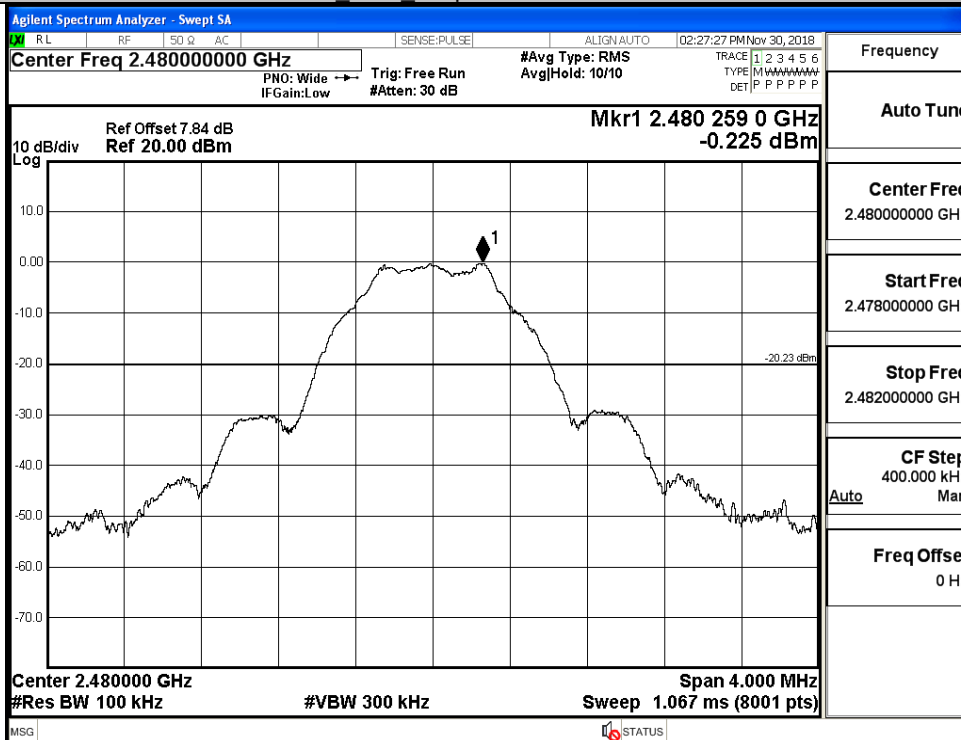


Puw/BT LE/MCH

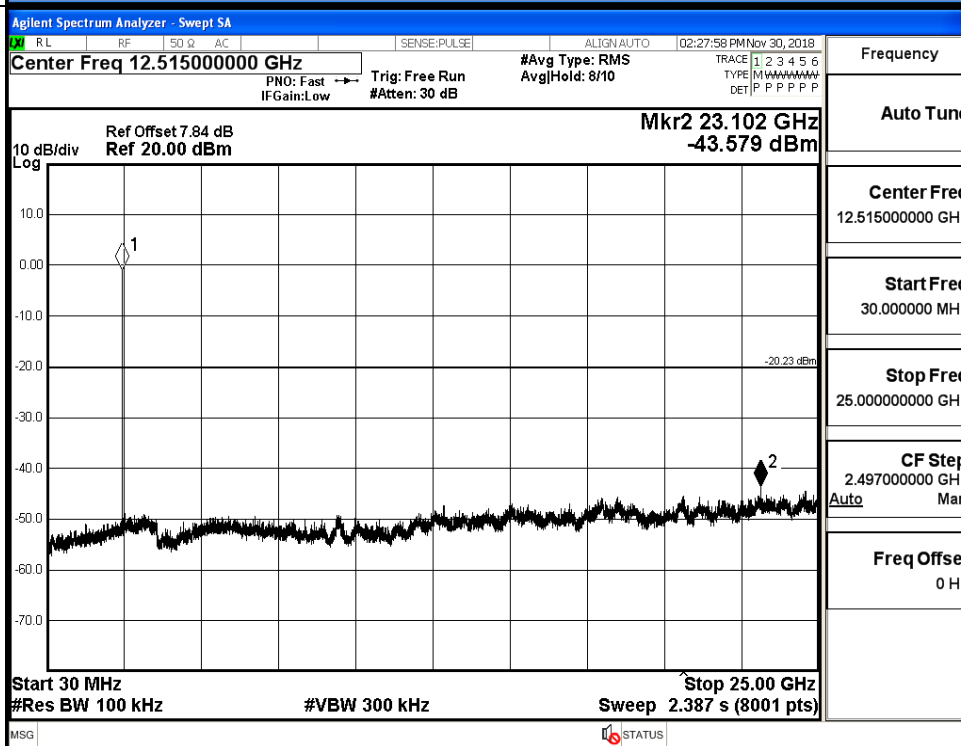


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

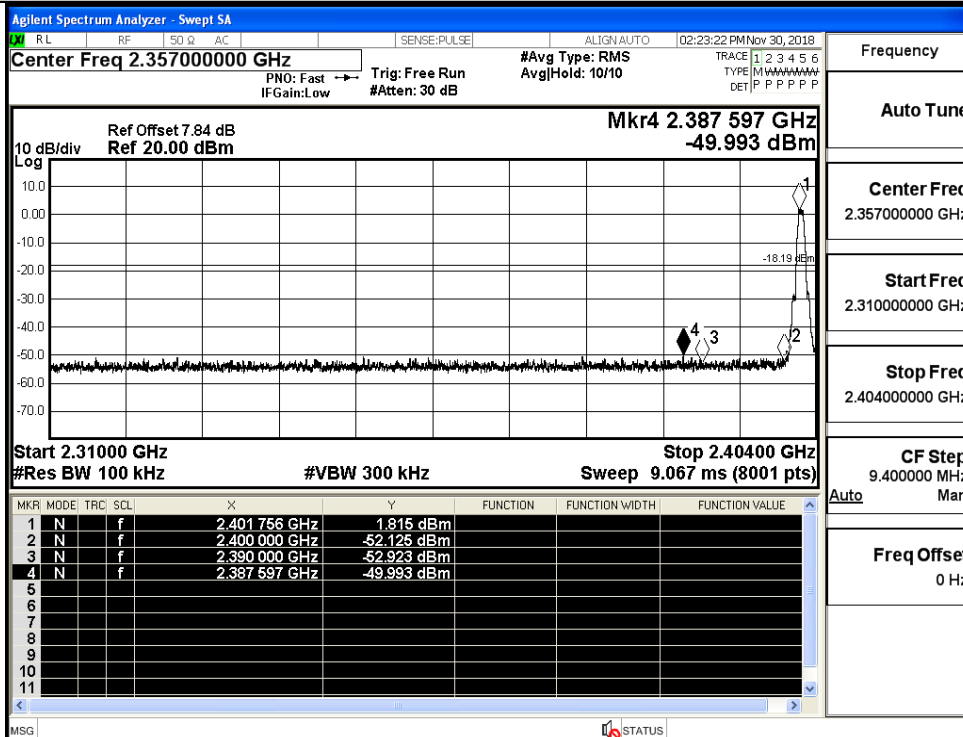


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.815	-49.993	-18.19	PASS
BT LE	HCH	0.054	-49.345	-19.95	PASS

Test Graphs

LCH

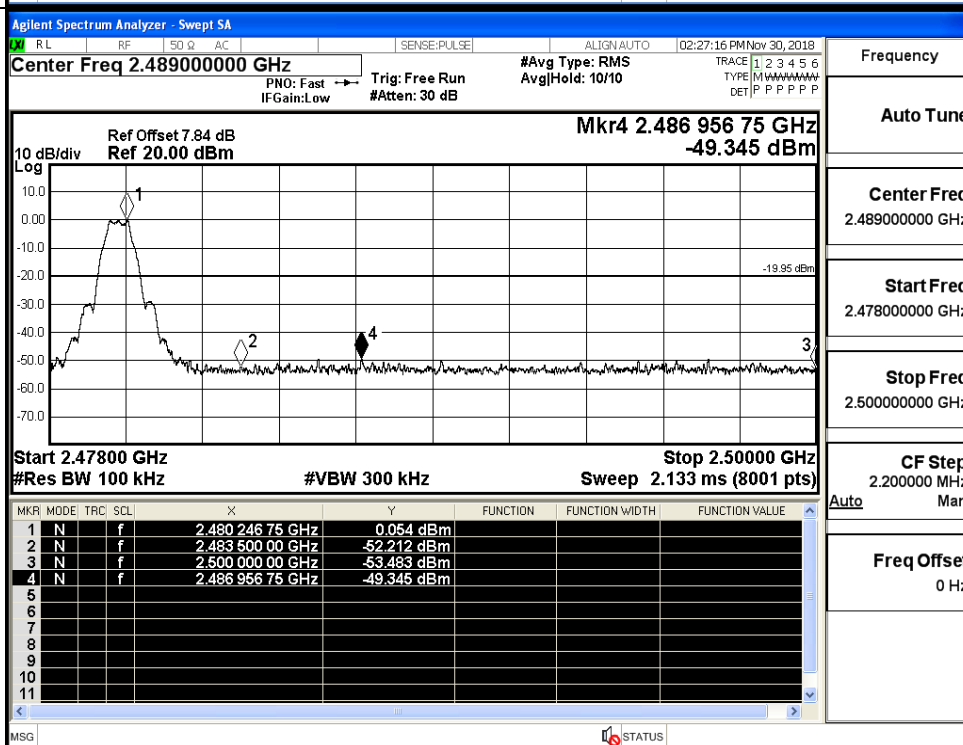


Frequency

Auto Tune

Center Freq
2.357000000 GHzStart Freq
2.310000000 GHzStop Freq
2.404000000 GHzCF Step
9.400000 MHz
Auto ManFreq Offset
0 Hz

HCH



Frequency

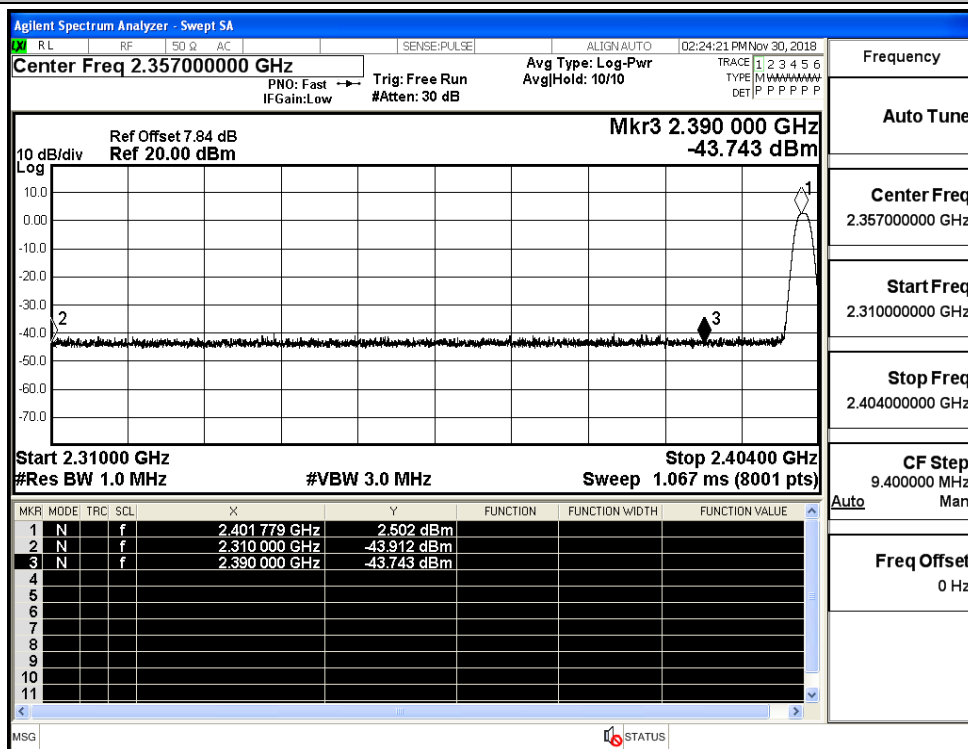
Auto Tune

Center Freq
2.489000000 GHzStart Freq
2.478000000 GHzStop Freq
2.500000000 GHzCF Step
2.200000 MHz
Auto ManFreq Offset
0 Hz

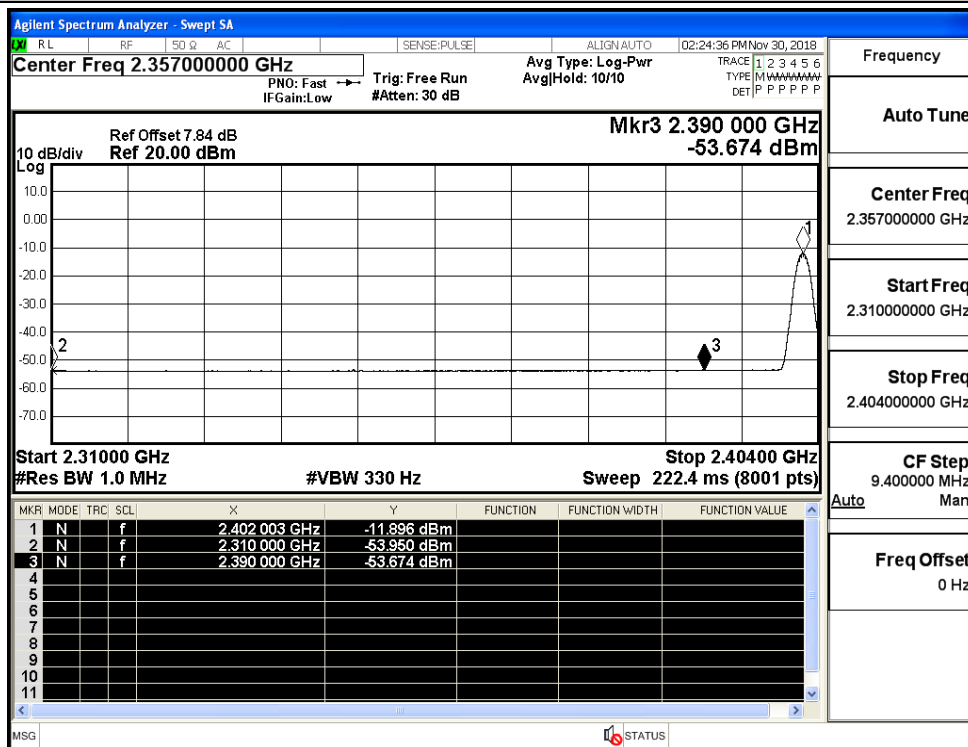
B.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-43.91	2.0	0	53.35	PEAK	74	PASS
		Ant1	2310.0	-53.95	2.0	0	43.31	AV	54	PASS
		Ant1	2390.0	-43.74	2.0	0	53.51	PEAK	74	PASS
		Ant1	2390.0	-53.67	2.0	0	43.58	AV	54	PASS
	2480	Ant1	2483.5	-41.22	2.0	0	56.04	PEAK	74	PASS
		Ant1	2483.5	-52.85	2.0	0	44.41	AV	54	PASS
		Ant1	2500.0	-43.84	2.0	0	53.42	PEAK	74	PASS
		Ant1	2500.0	-53.20	2.0	0	44.06	AV	54	PASS

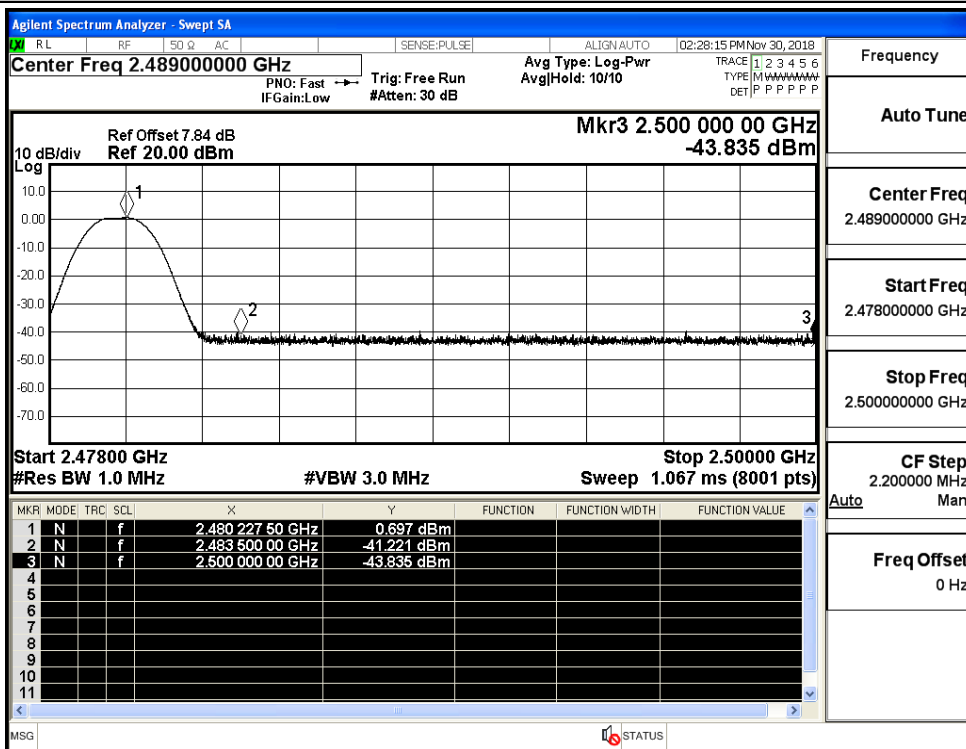
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

