

Appendix C

RF Test Data for BT V5.1 (2BT LE) (Conducted Measurement)

Product Name: Portable Data Collector

Trade Mark: Newland

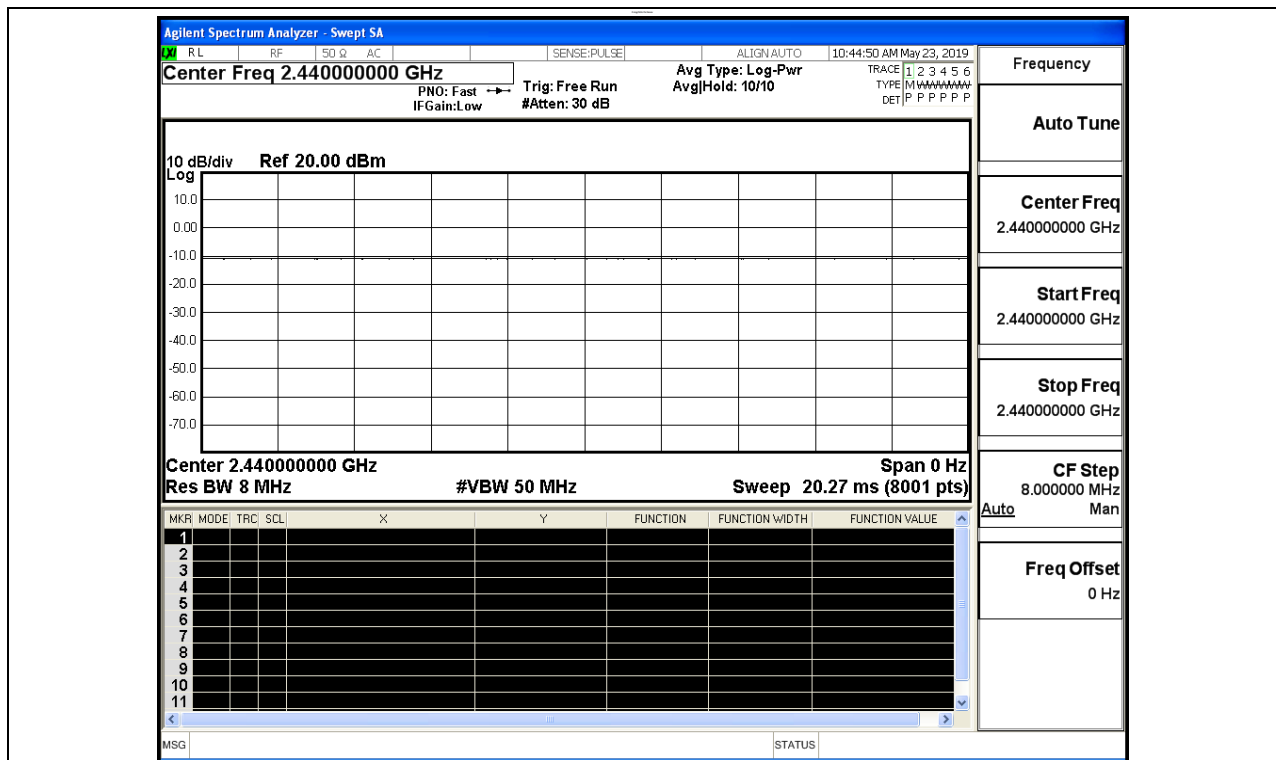
Test Model: NLS-NFT10

Environmental Conditions

Temperature:	22.6° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	WANGCHUANG
Supervised by:	Tom.Liu

C.1 Duty Cycle

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

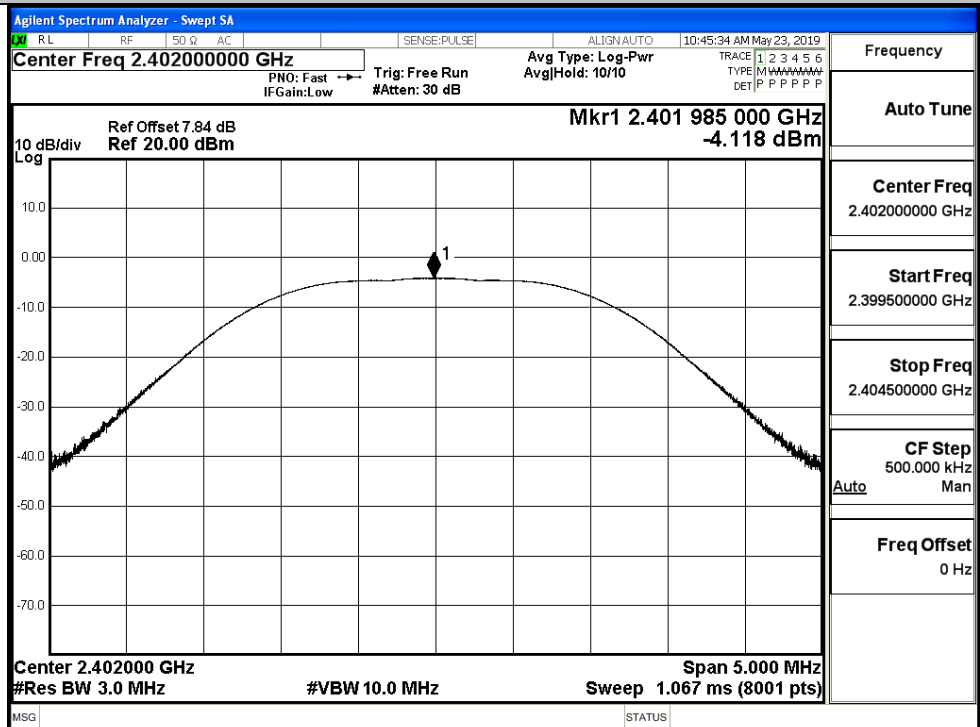


C.2 Maximum Conducted Peak Output Power

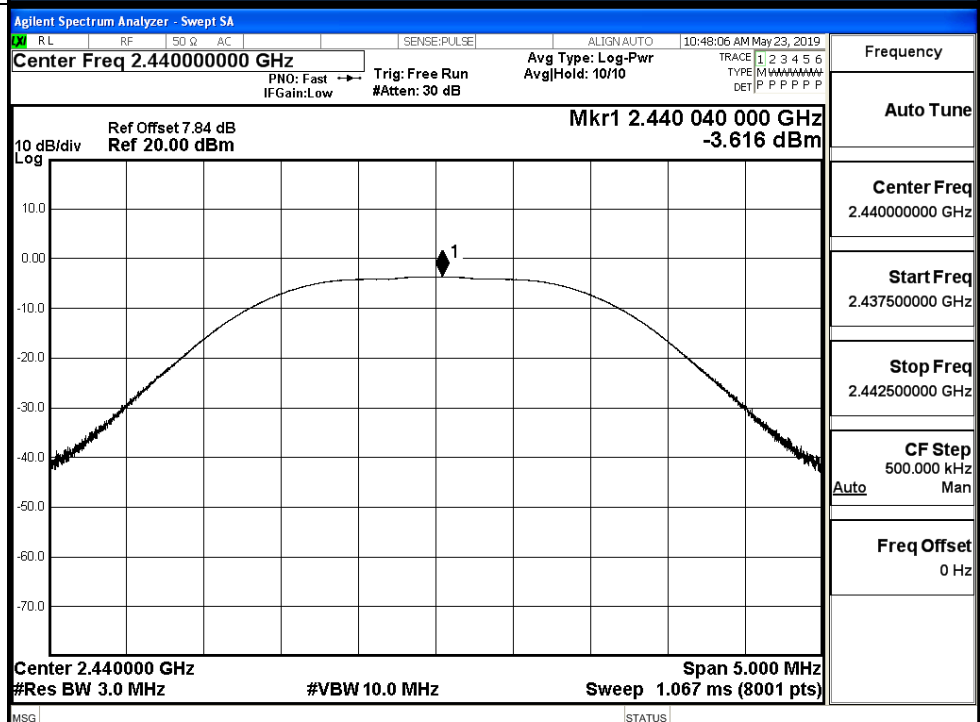
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-4.118	30	PASS
BT LE	MCH	-3.616	30	PASS
BT LE	HCH	-4.631	30	PASS

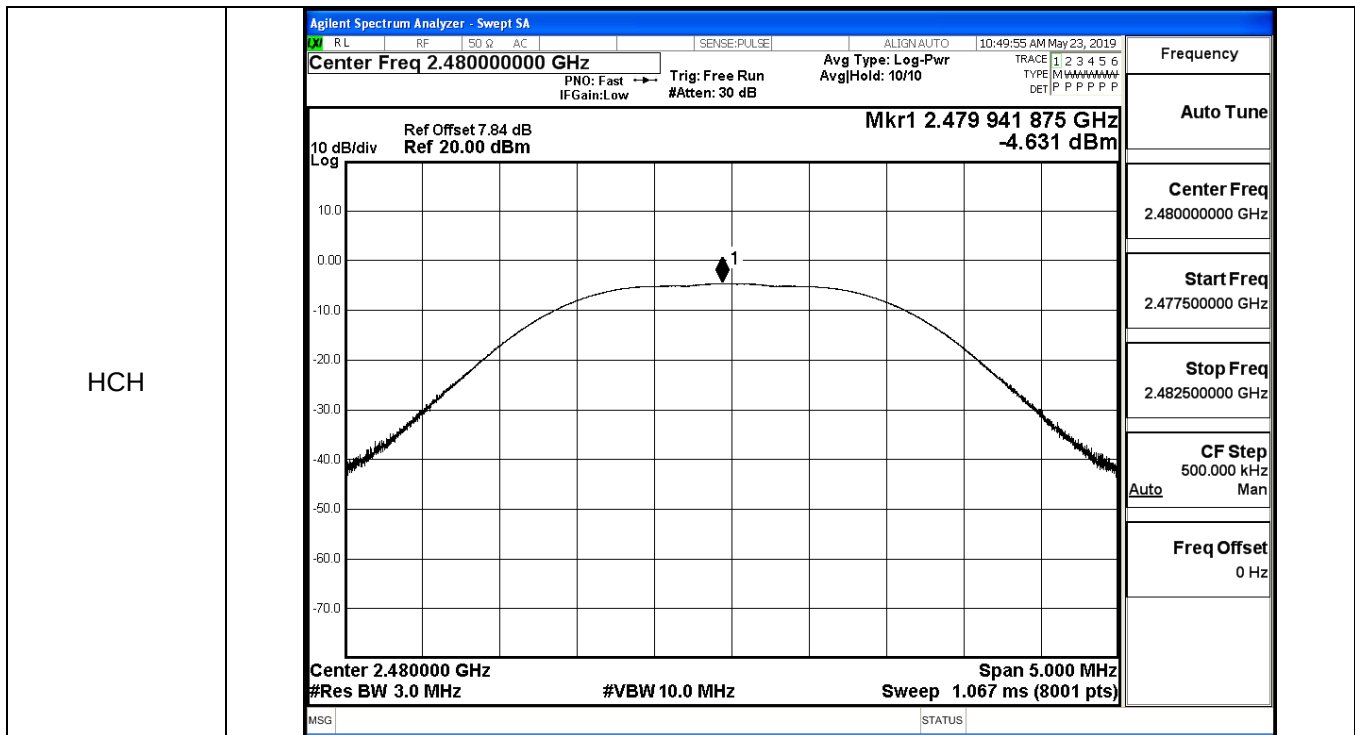
Test Graphs

LCH



MCH



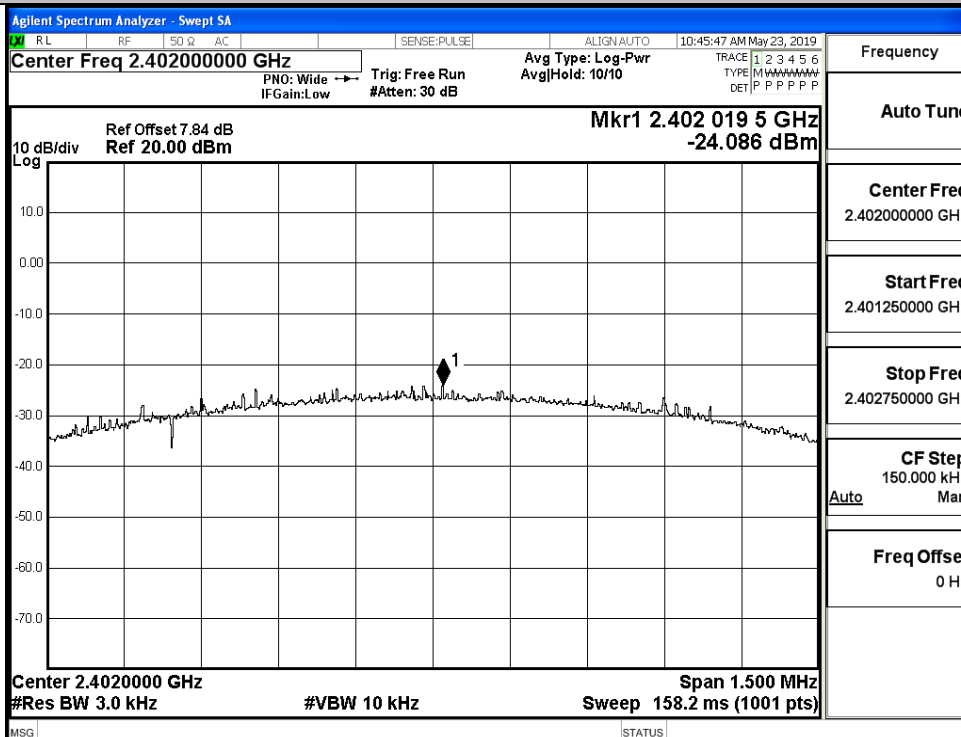


C.3 Maximum Power Spectral Density

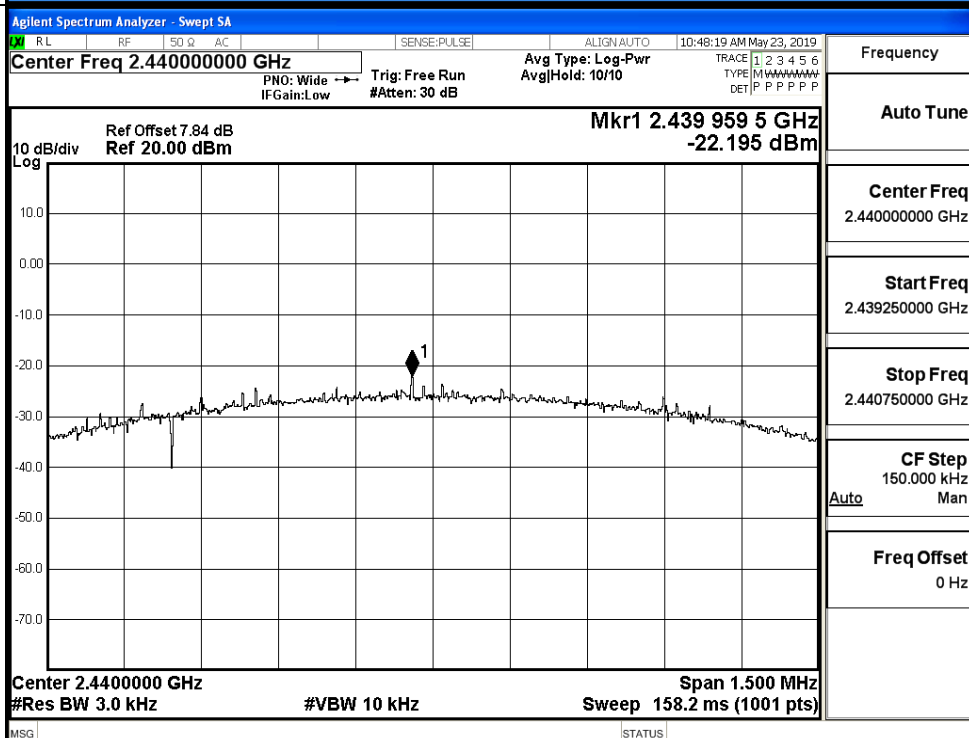
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-24.086	8	PASS
BT LE	MCH	-22.195	8	PASS
BT LE	HCH	-24.409	8	PASS

Test Graphs

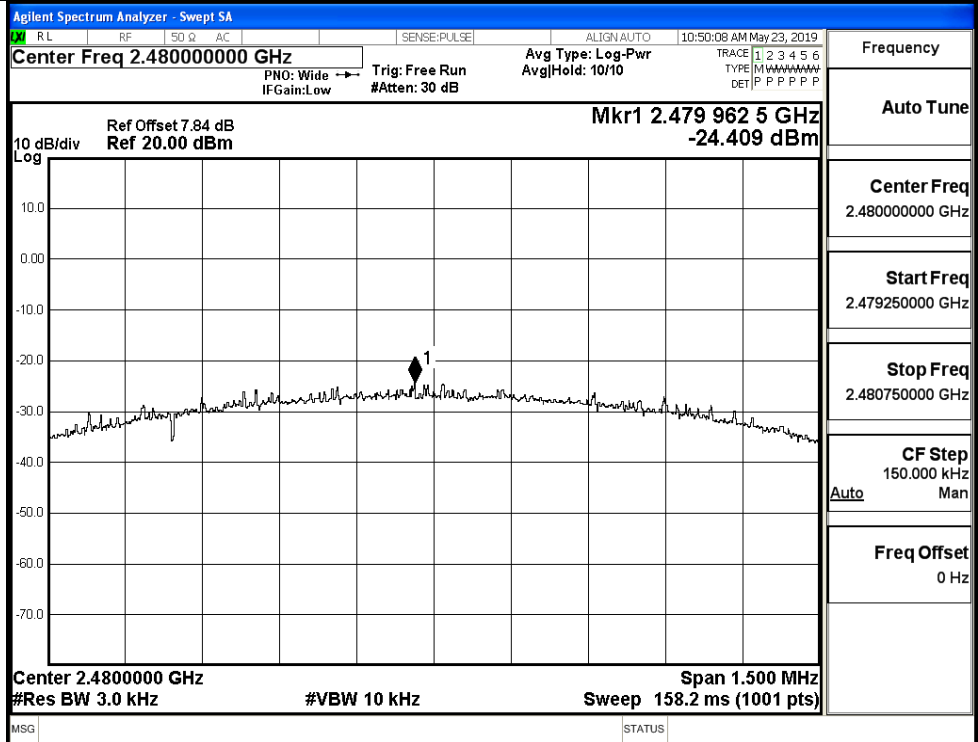
LCH



MCH



HCH

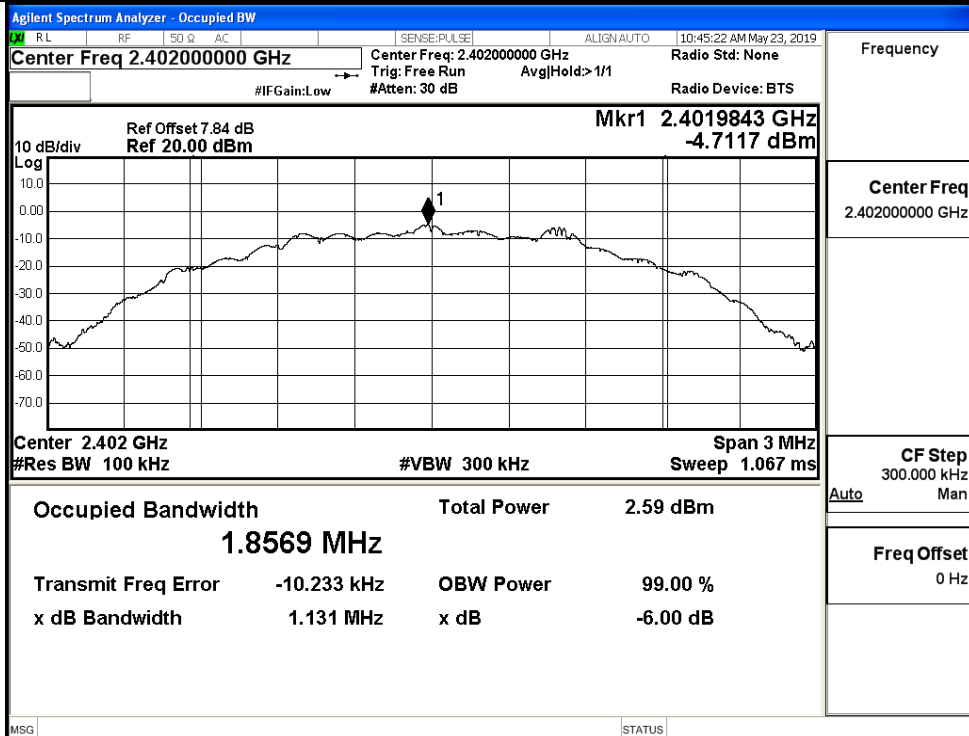


C.4 6dB Bandwidth

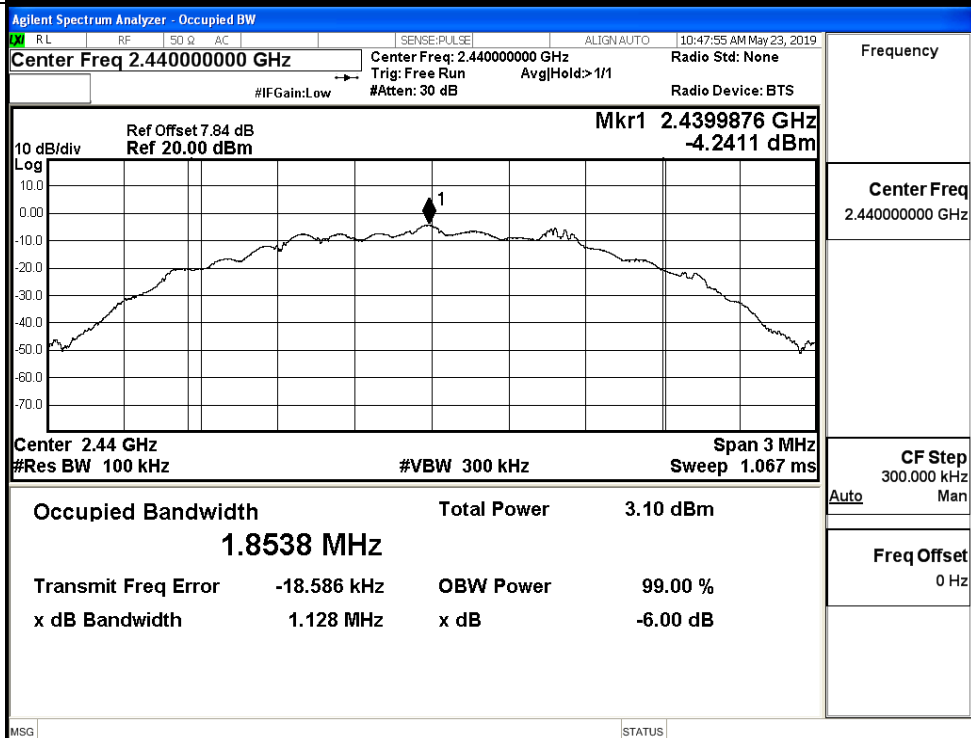
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.131	≥ 0.5	PASS
BT LE	MCH	1.128	≥ 0.5	PASS
BT LE	HCH	1.131	≥ 0.5	PASS

Test Graphs

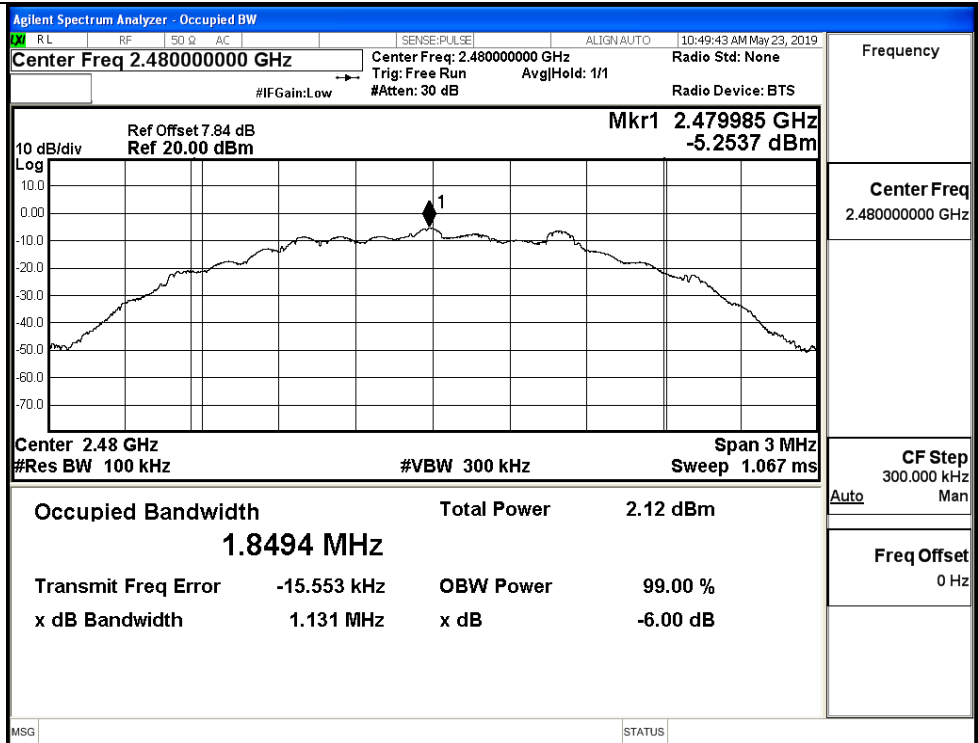
LCH



MCH



HCH

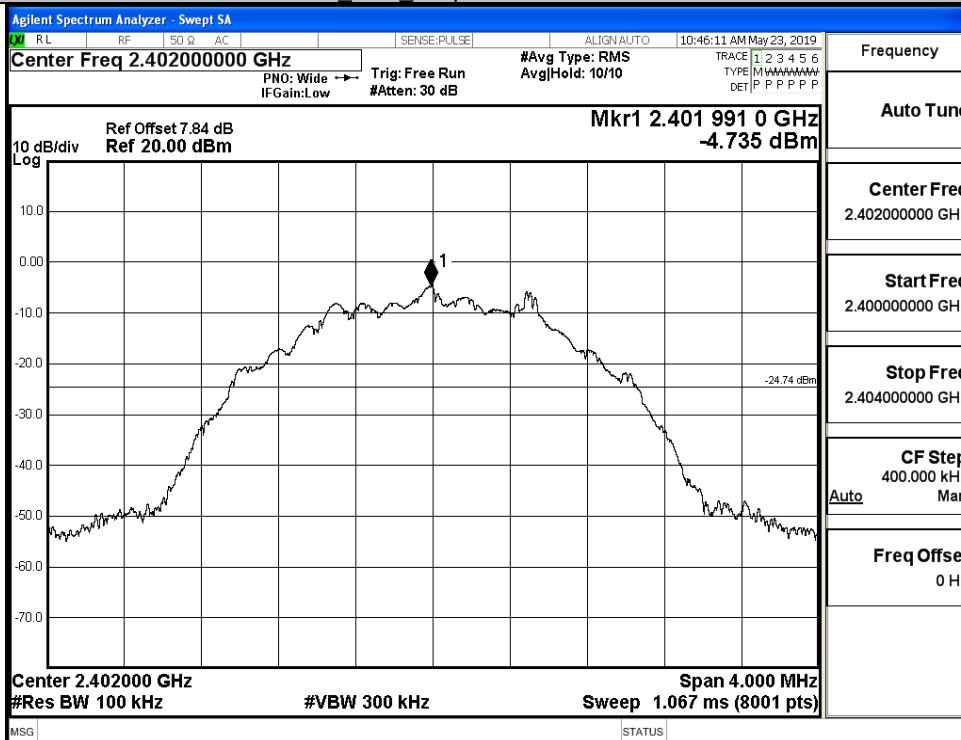


C.5 RF Conducted Spurious Emissions

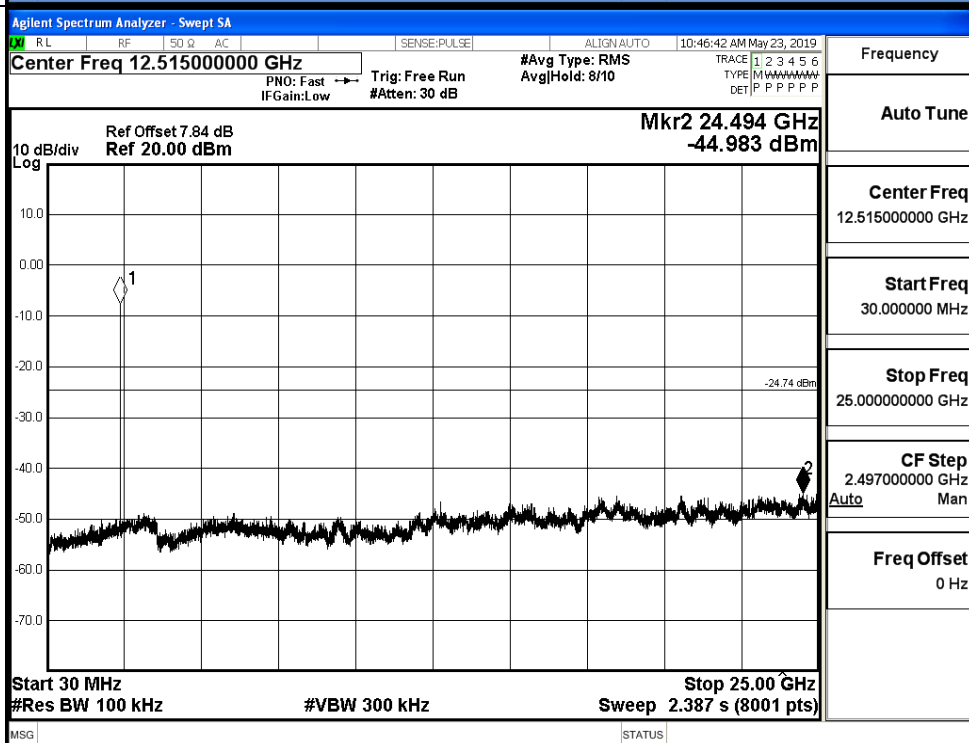
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-4.735	-44.983	-24.735	PASS
BT LE	MCH	-4.519	-44.745	-24.519	PASS
BT LE	HCH	-5.227	-44.502	-25.227	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

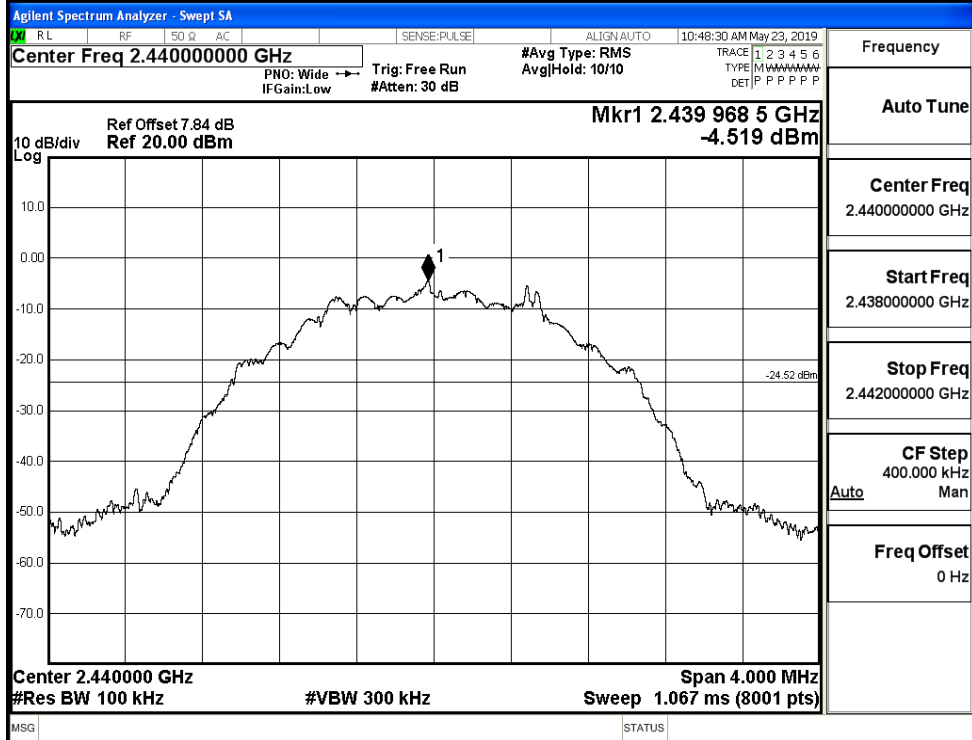


Puw/BT LE/LCH

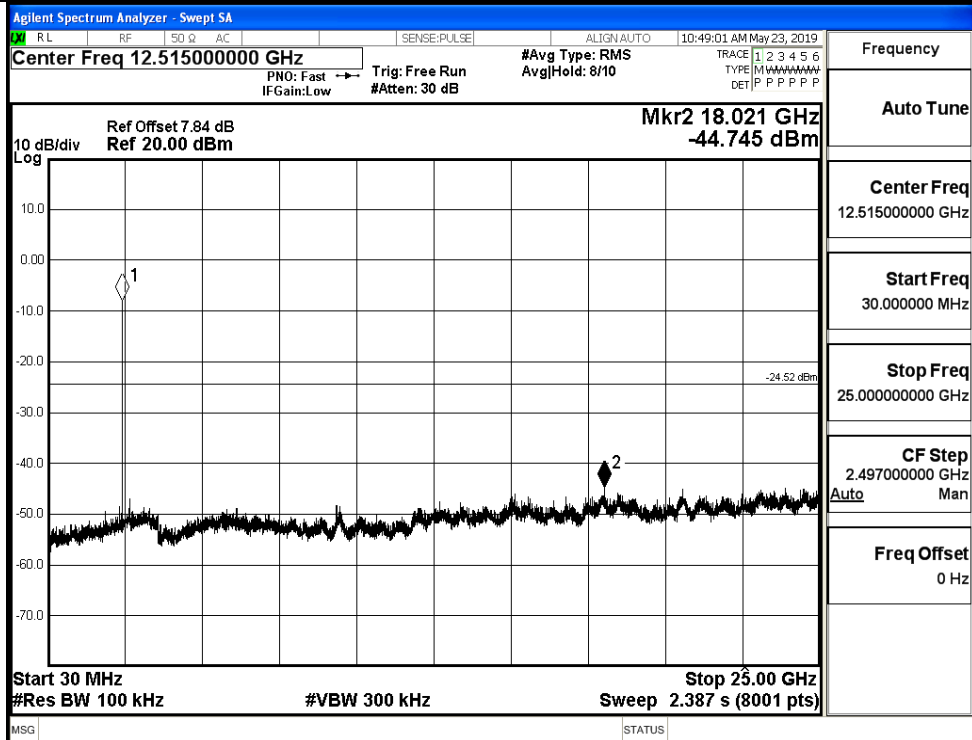


BT LE MCH Graphs

Pref/BT LE/MCH

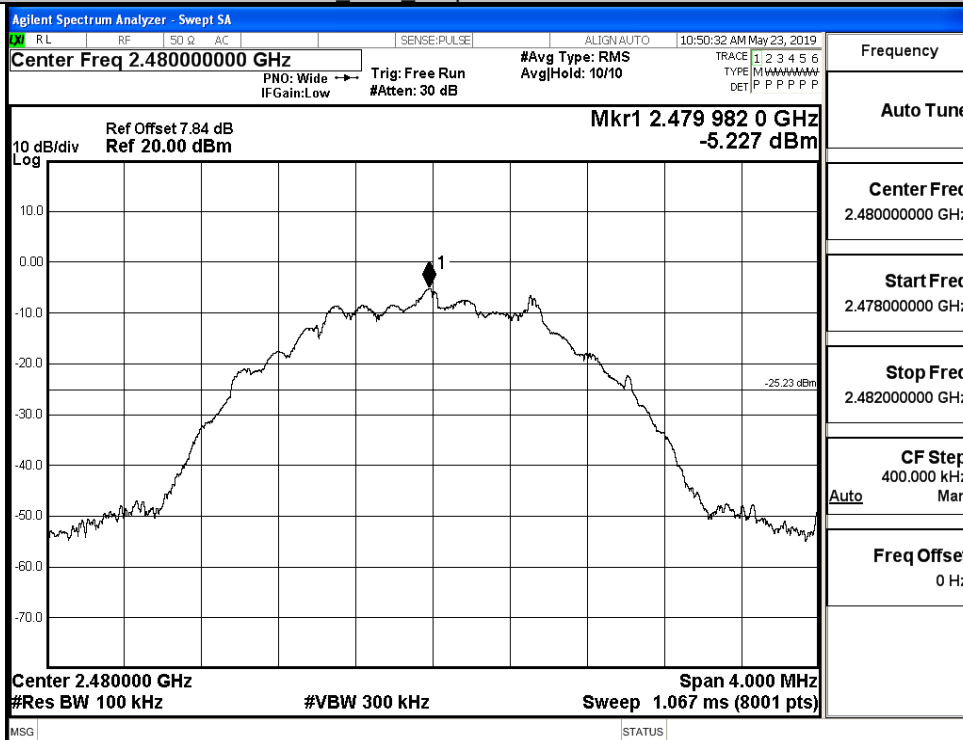


Puw/BT LE/MCH

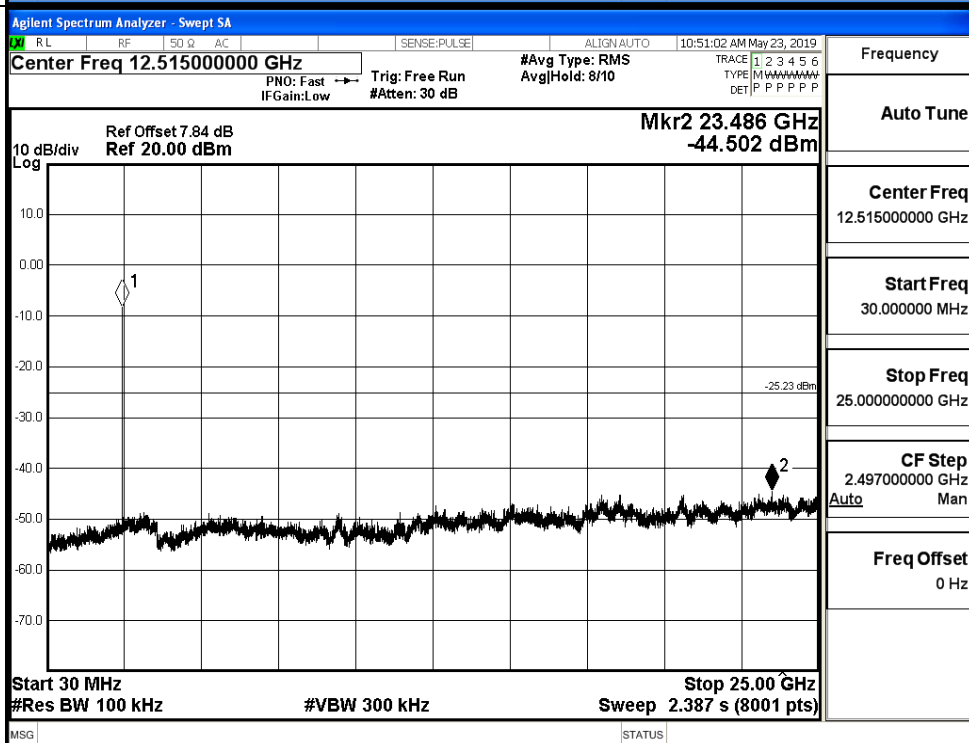


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

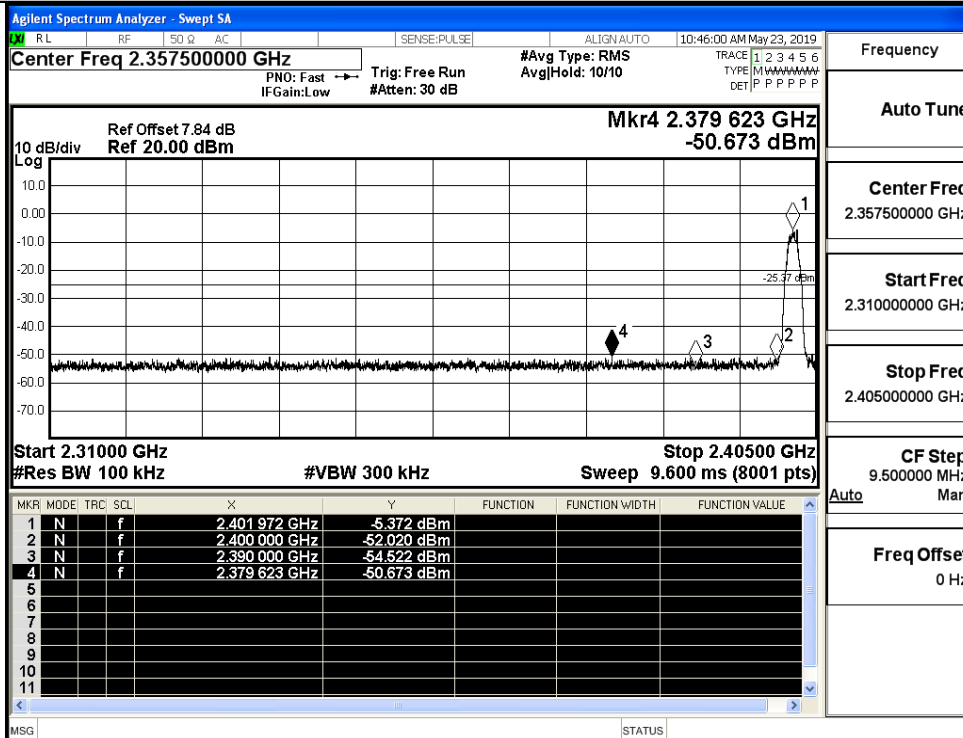


C.6 Band-edge for RF Conducted Emissions

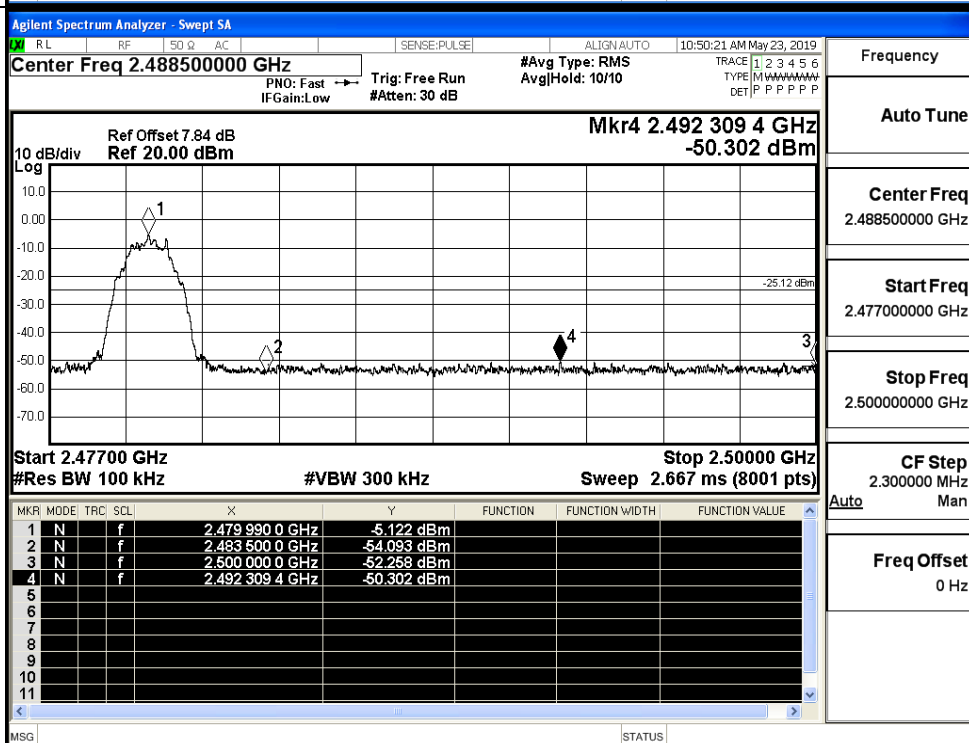
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-5.372	-50.673	-25.37	PASS
BT LE	HCH	-5.122	-50.302	-25.12	PASS

Test Graphs

LCH



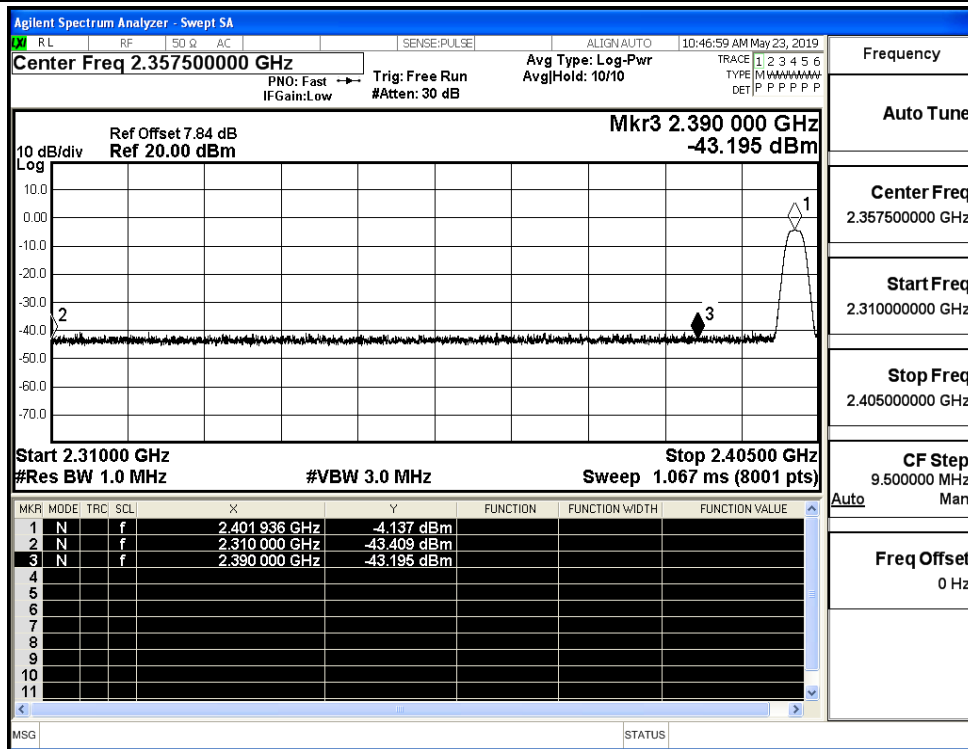
HCH



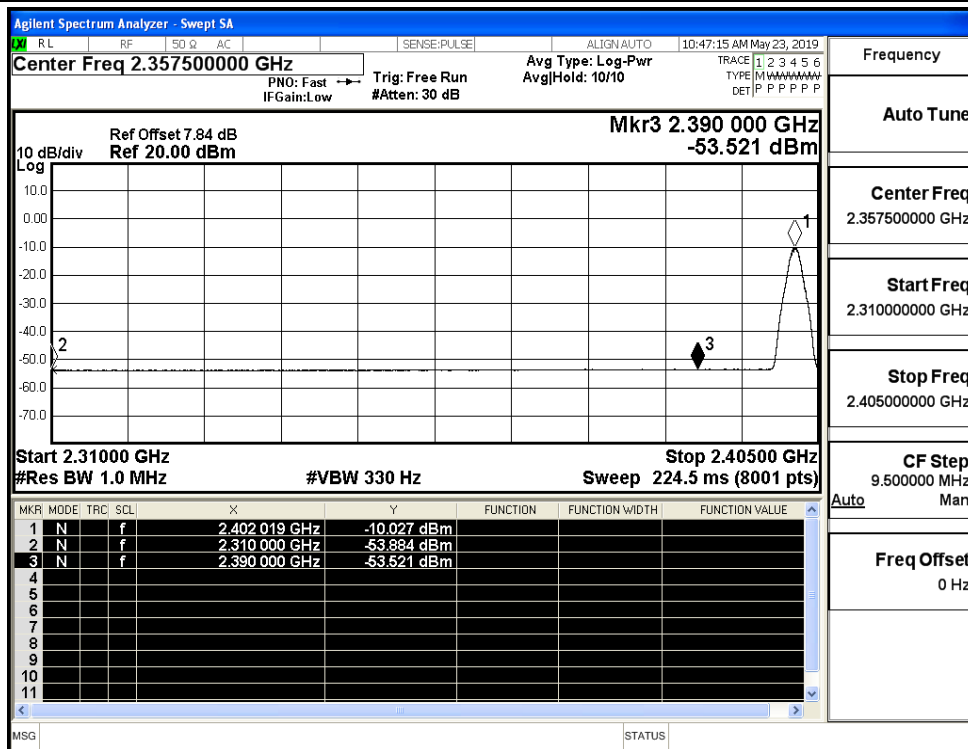
C.7 Restrict-band band-edge measurements

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	-43.41	2.0	0	53.85	PEAK	74	PASS
		Ant1	2310.0	-53.88	2.0	0	43.37	AV	54	PASS
		Ant1	2390.0	-43.20	2.0	0	54.06	PEAK	74	PASS
		Ant1	2390.0	-53.52	2.0	0	43.74	AV	54	PASS
	2480	Ant1	2483.5	-43.40	2.0	0	53.86	PEAK	74	PASS
		Ant1	2483.5	-53.31	2.0	0	43.95	AV	54	PASS
		Ant1	2500.0	-42.92	2.0	0	54.33	PEAK	74	PASS
		Ant1	2500.0	-53.21	2.0	0	44.05	AV	54	PASS

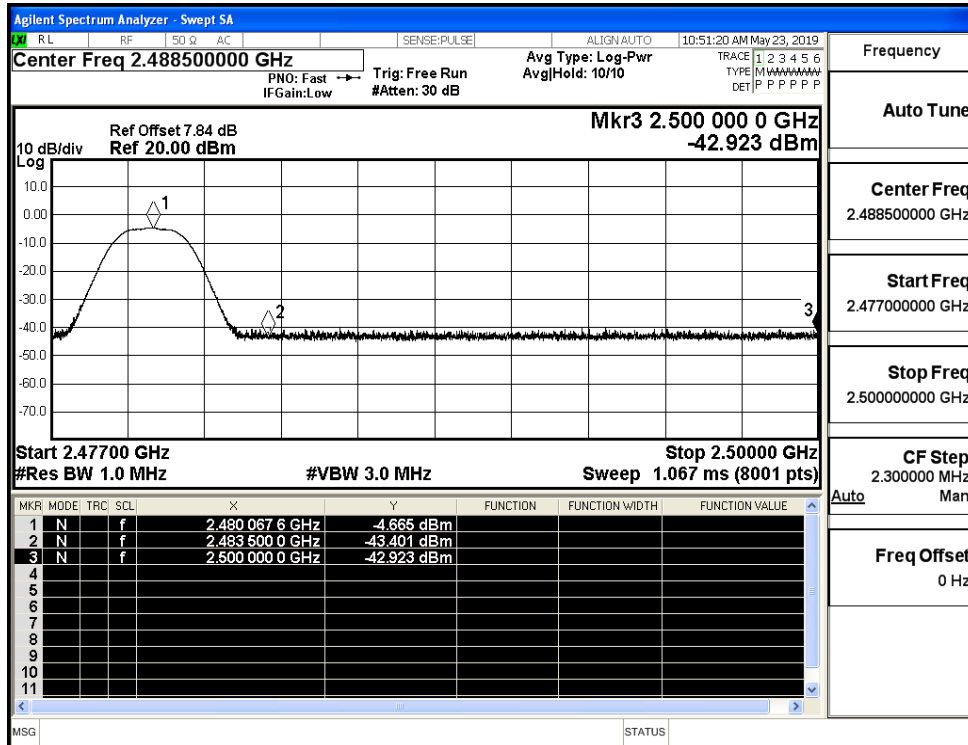
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

