

Appendix B

RF Test Data for BT V4.1 (BT LE) (Conducted Measurement)

Product Name: PCSGOB1018M-Series

Trade Mark: PC SMART

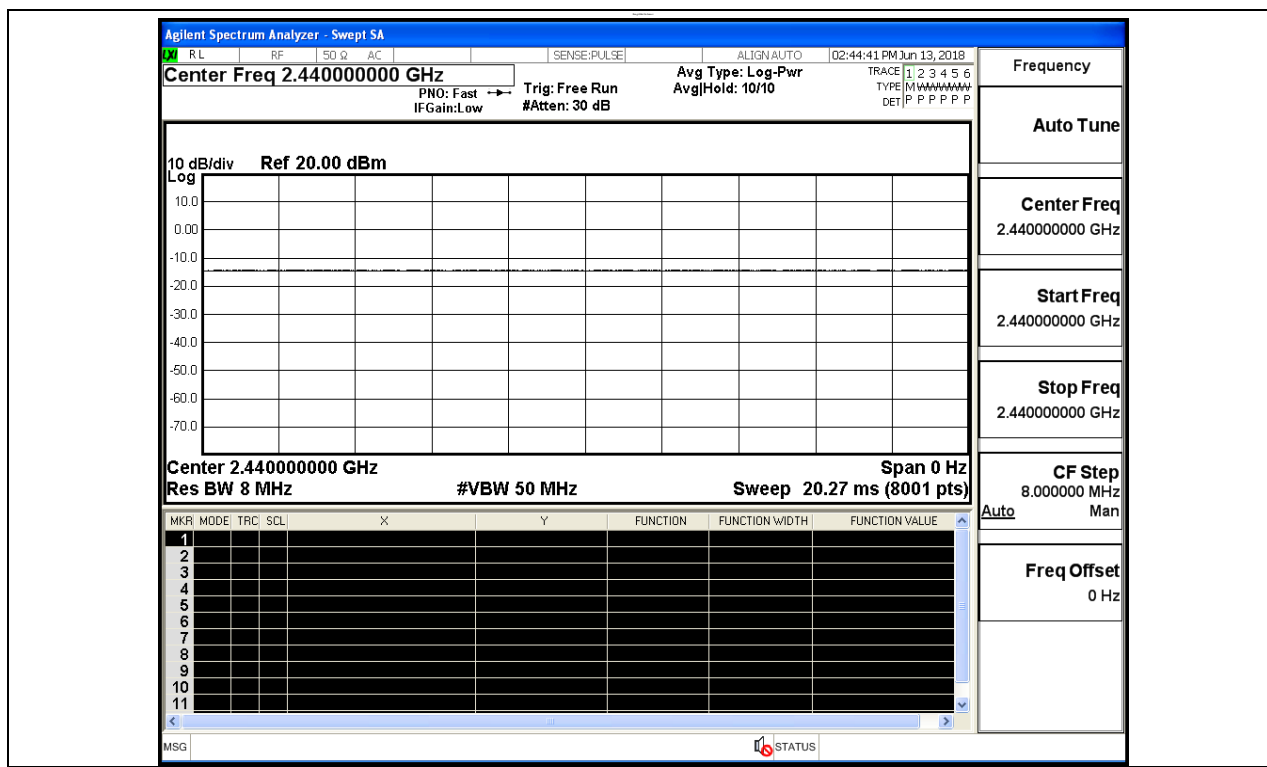
Test Model: PCSGOB1018M-A

Environmental Conditions

Temperature:	23.2 ° C
Relative Humidity:	52.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Wilson.Hong
Supervised by:	Jayden.Zhuo

B.1 Duty Cycle

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

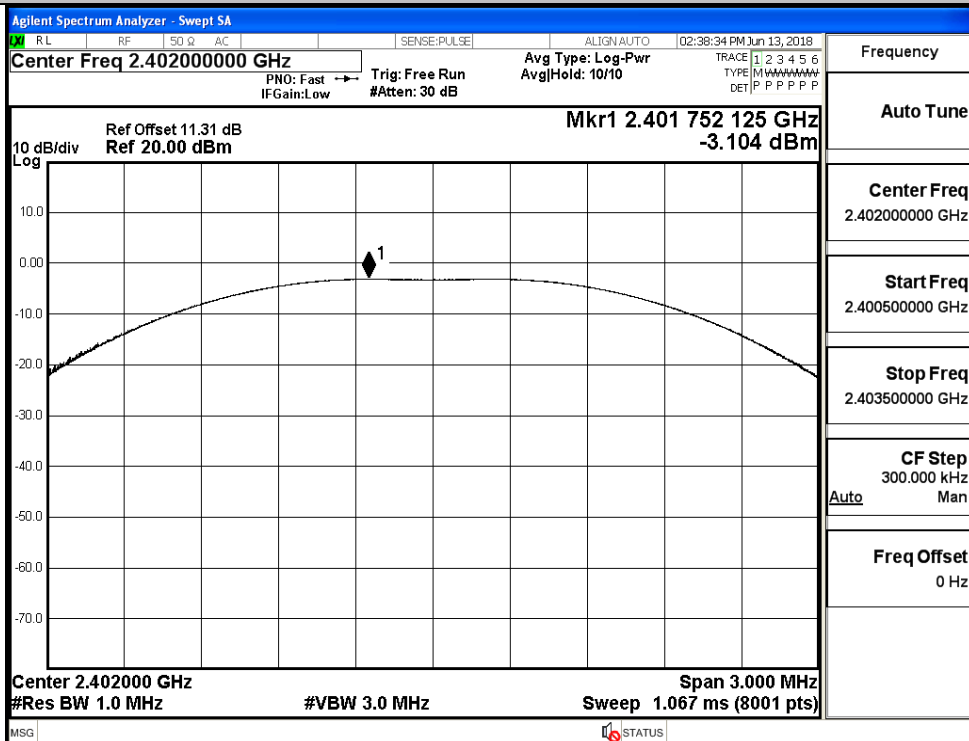


B.2 Maximum Conducted Peak Output Power

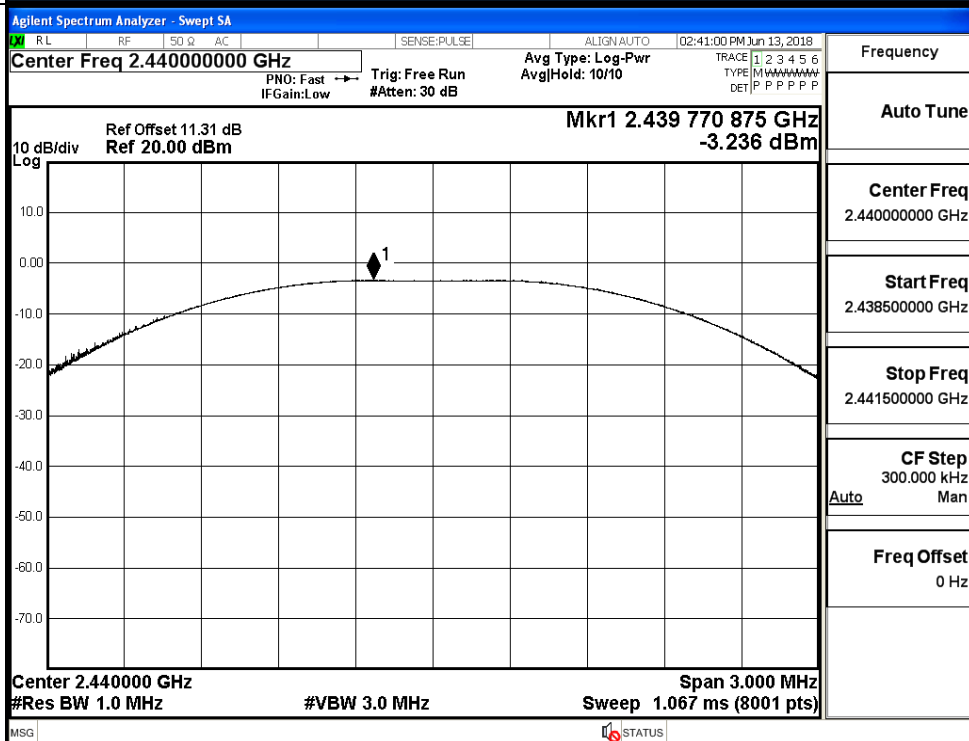
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.104	30	PASS
BT LE	MCH	-3.236	30	PASS
BT LE	HCH	-3.268	30	PASS

Test Graphs

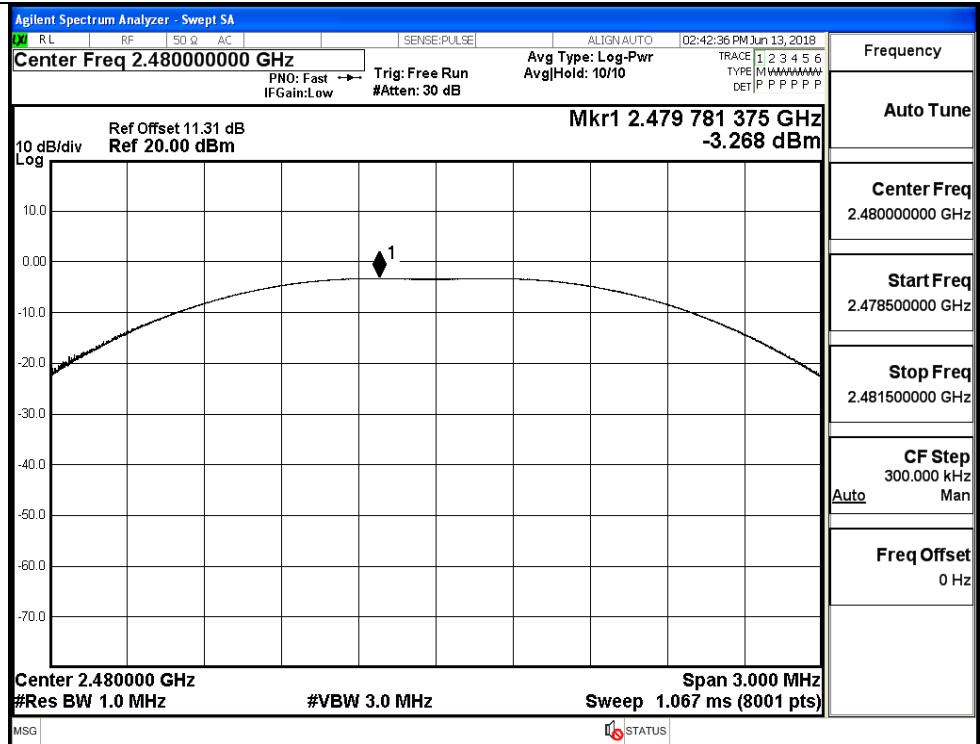
LCH



MCH



HCH

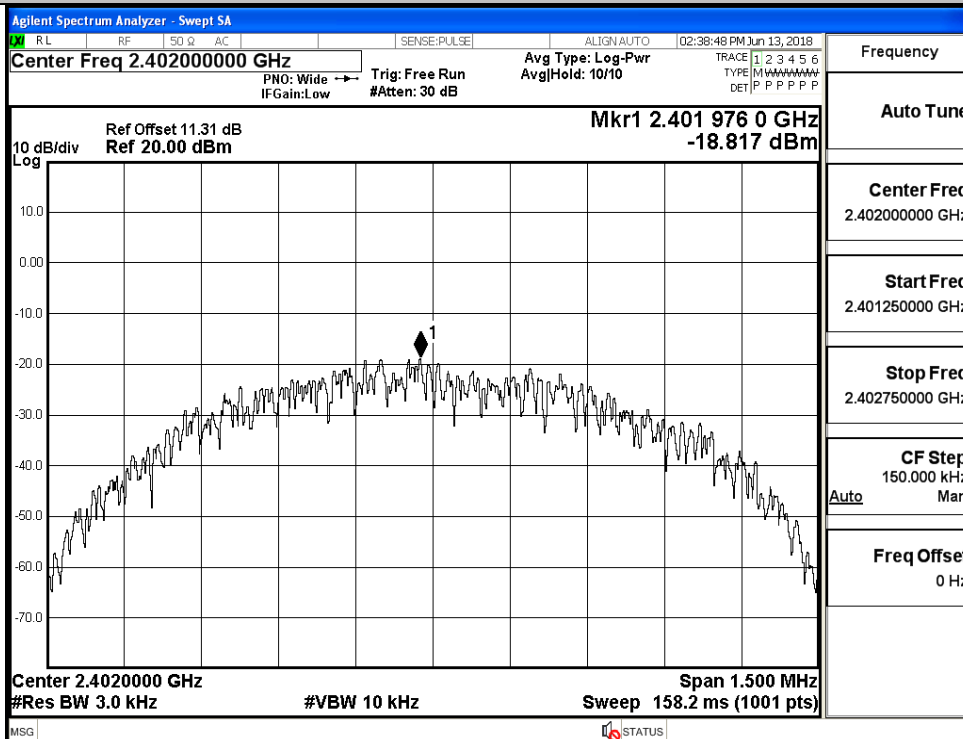


B.3 Maximum Power Spectral Density

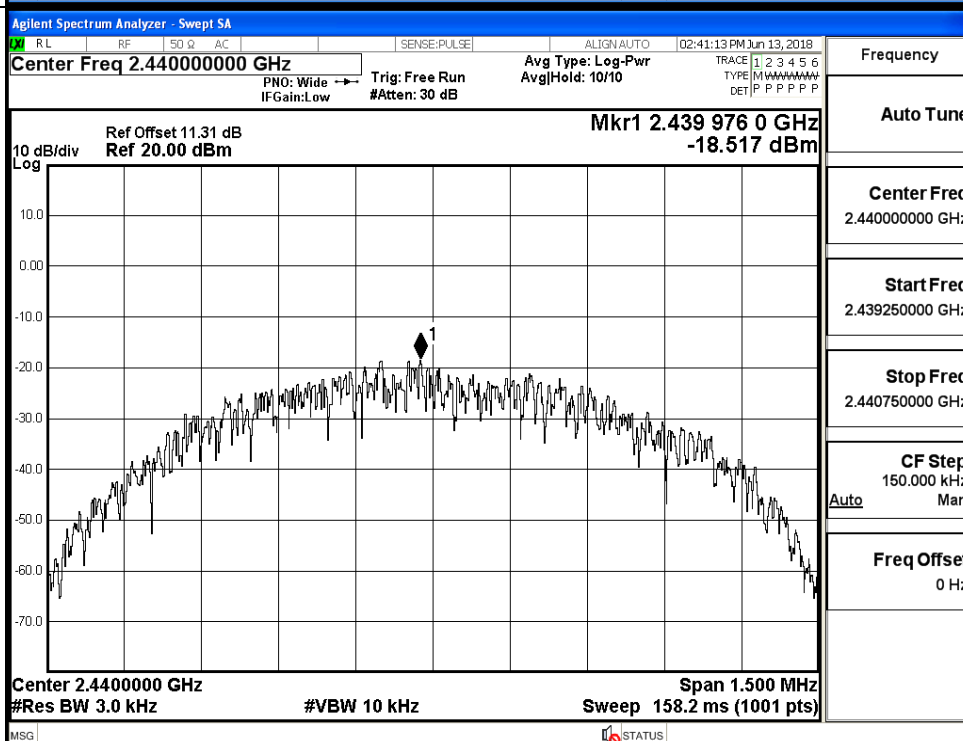
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-18.817	8	PASS
BT LE	MCH	-18.517	8	PASS
BT LE	HCH	-18.859	8	PASS

Test Graphs

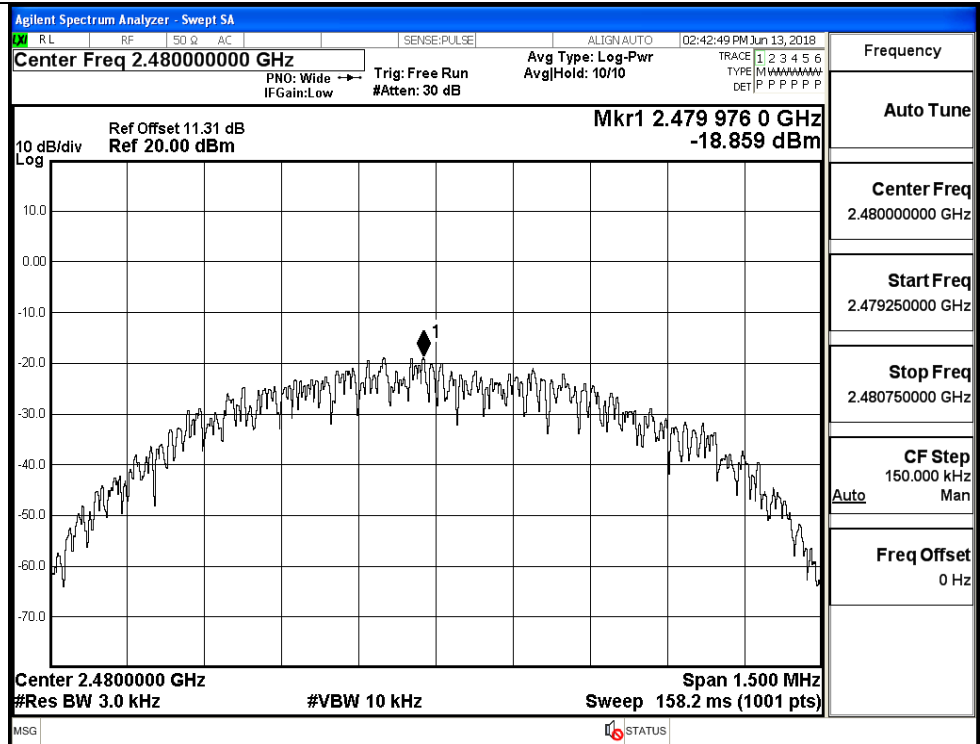
LCH



MCH



HCH

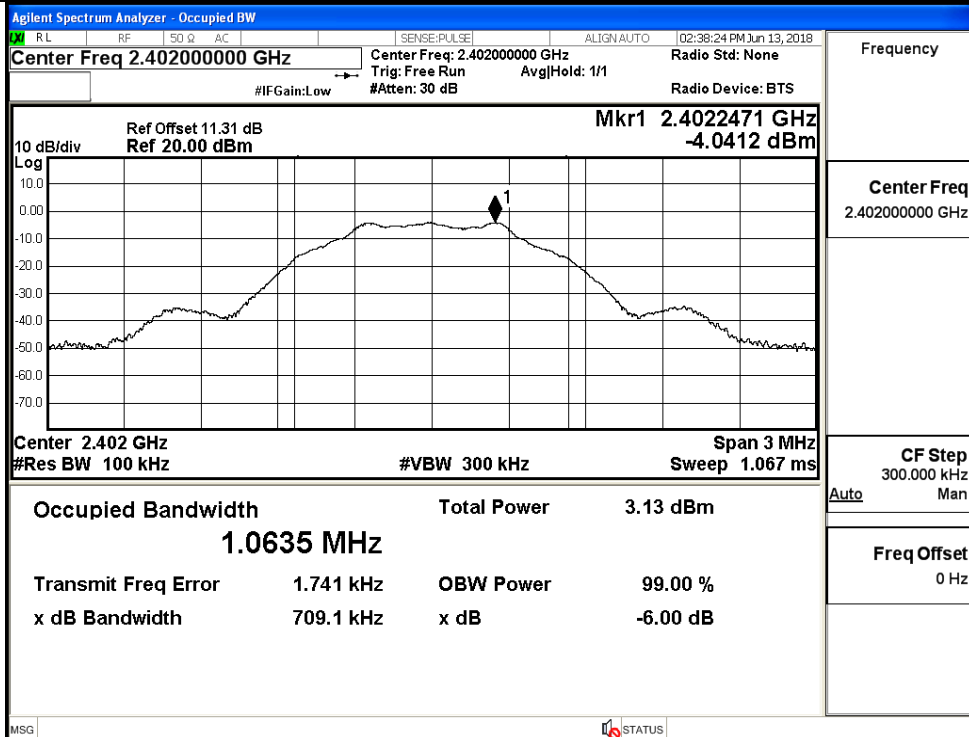


B.4 6dB Bandwidth

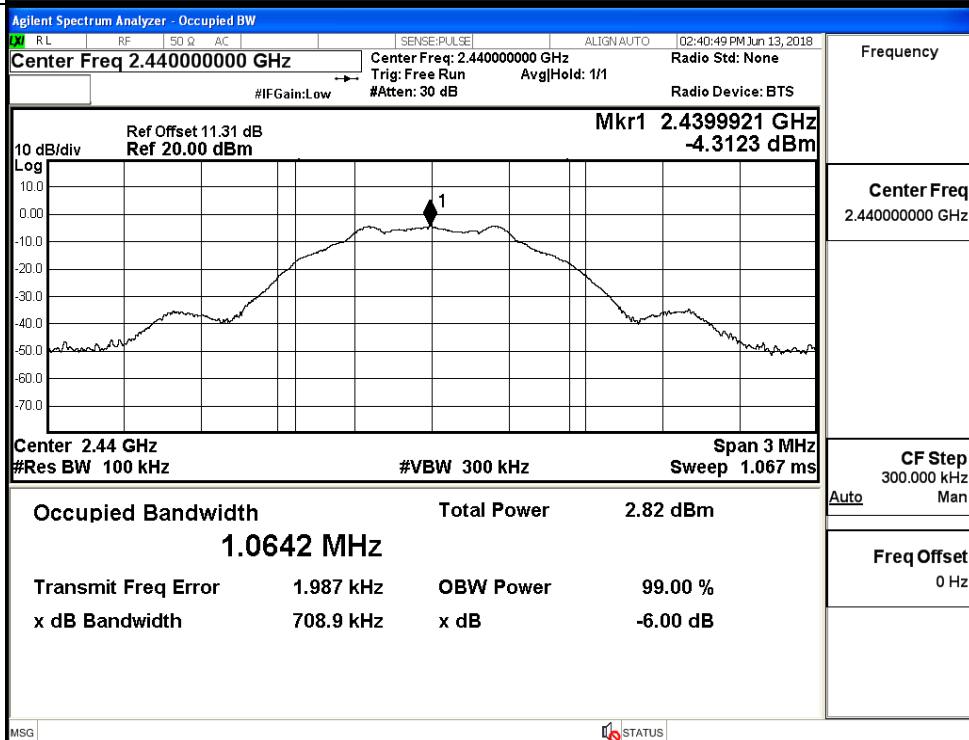
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7091	≥ 0.5	PASS
BT LE	MCH	0.7089	≥ 0.5	PASS
BT LE	HCH	0.7122	≥ 0.5	PASS

Test Graphs

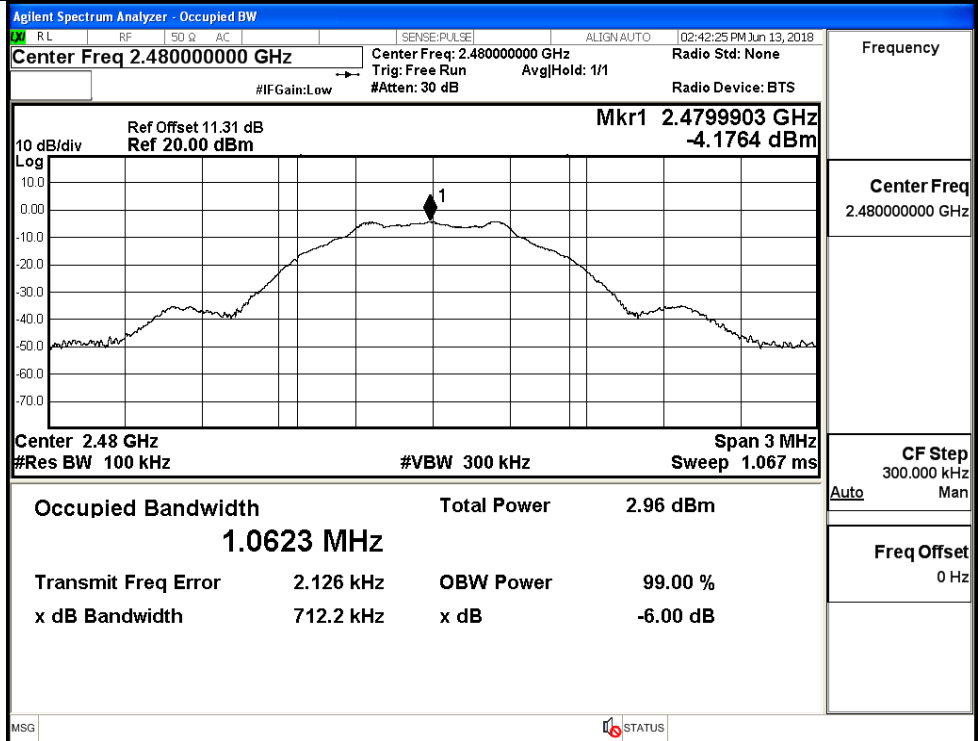
LCH



MCH



HCH

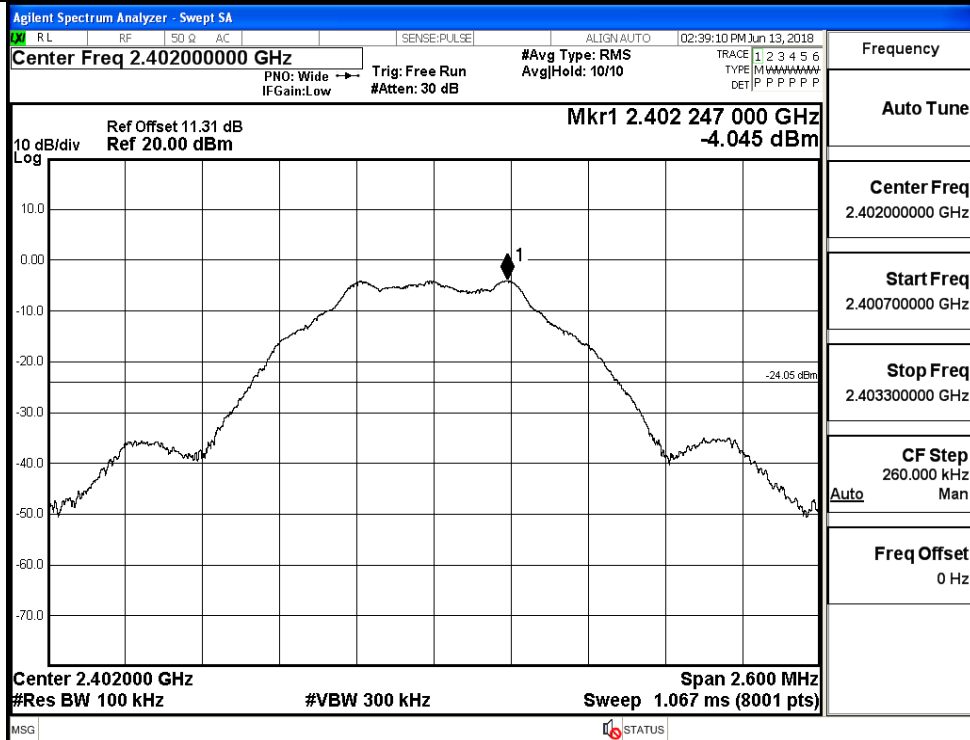


B.5 RF Conducted Spurious Emissions

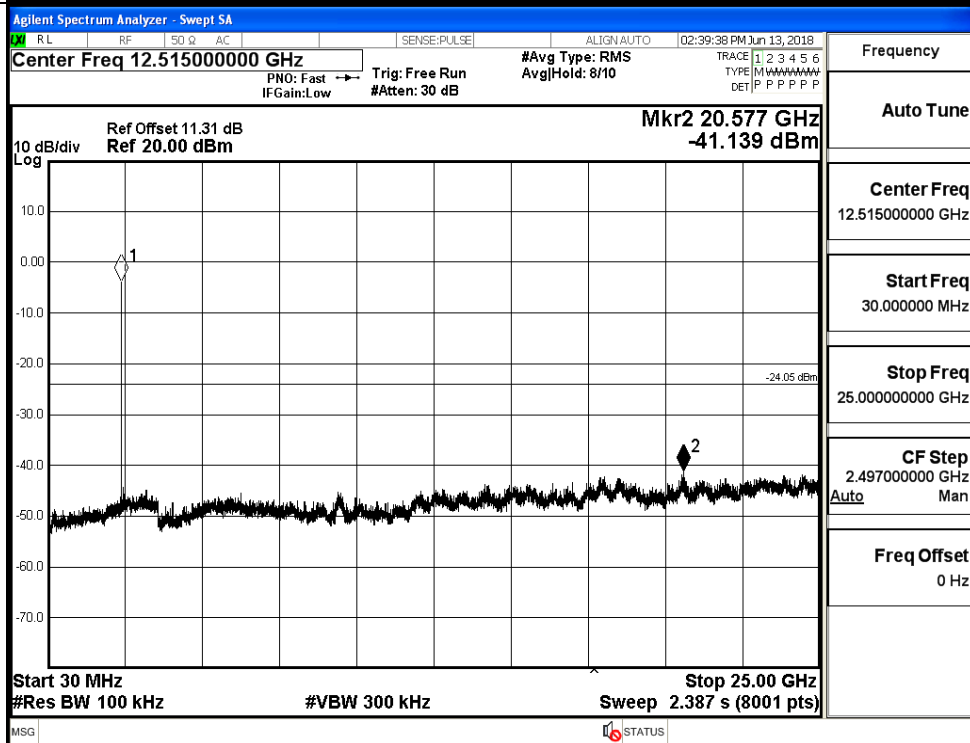
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-4.045	-41.139	-24.045	PASS
BT LE	MCH	-4.306	-40.185	-24.306	PASS
BT LE	HCH	-4.168	-41.027	-24.168	PASS

BT LE_LCH_Graphs

Pref/BT LE/LCH

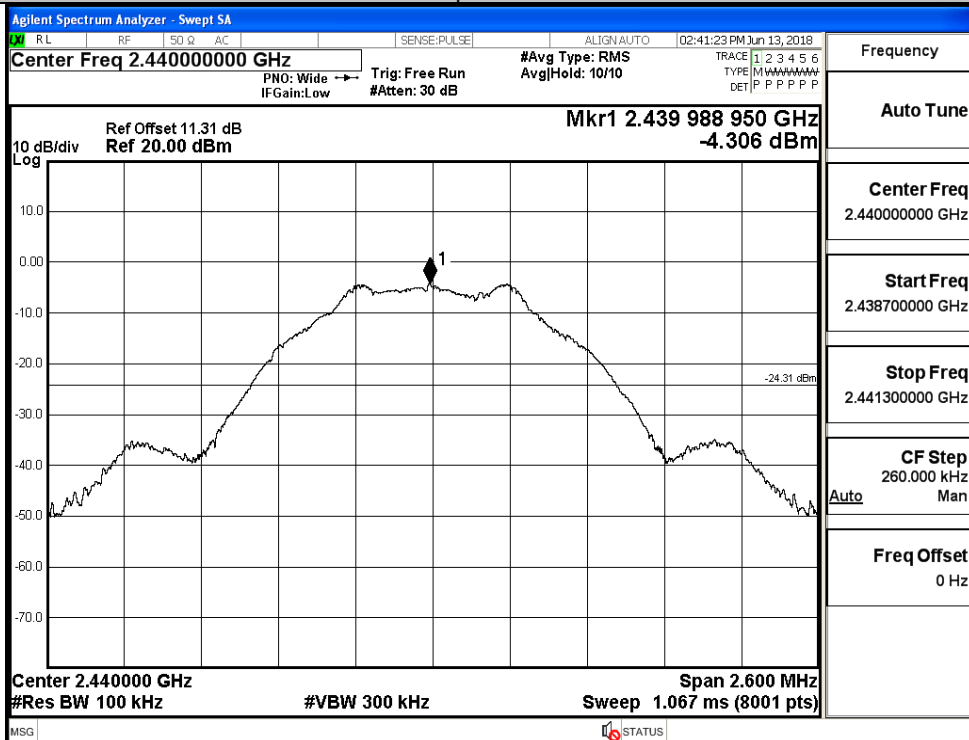


Puw/BT LE/LCH

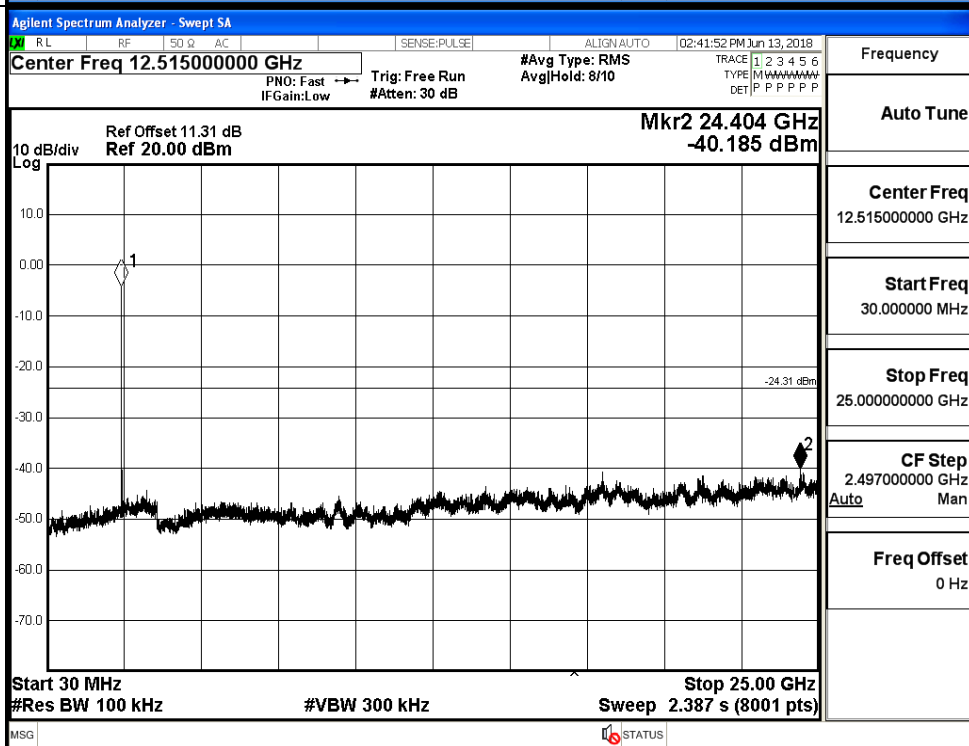


BT LE_MCH_Graphs

Pref/BT LE/MCH

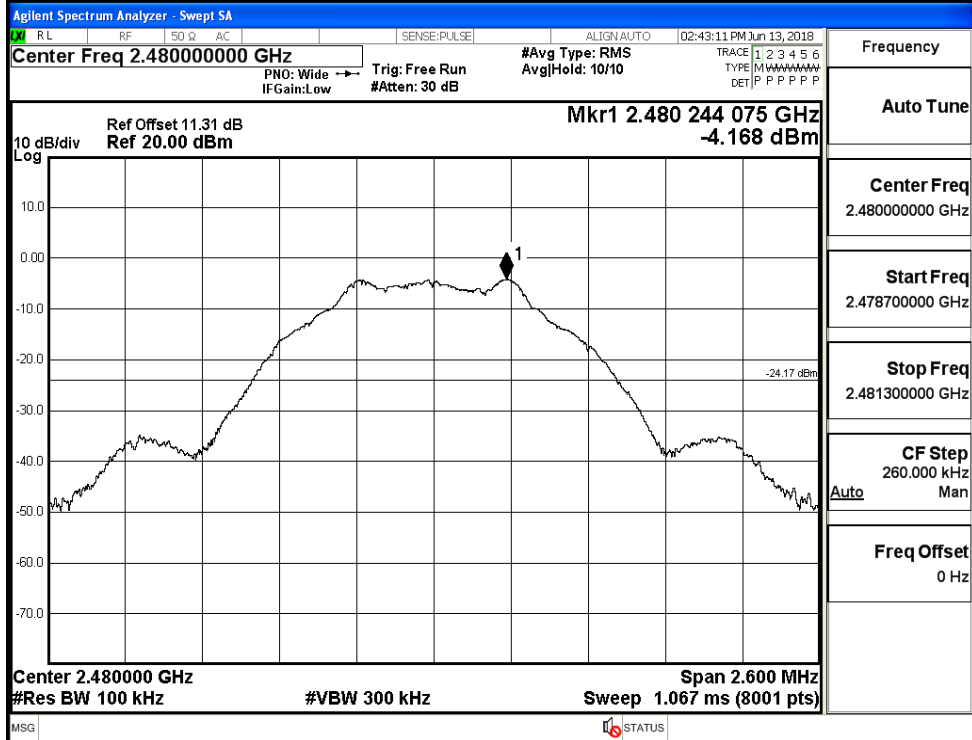


Puw/BT LE/MCH

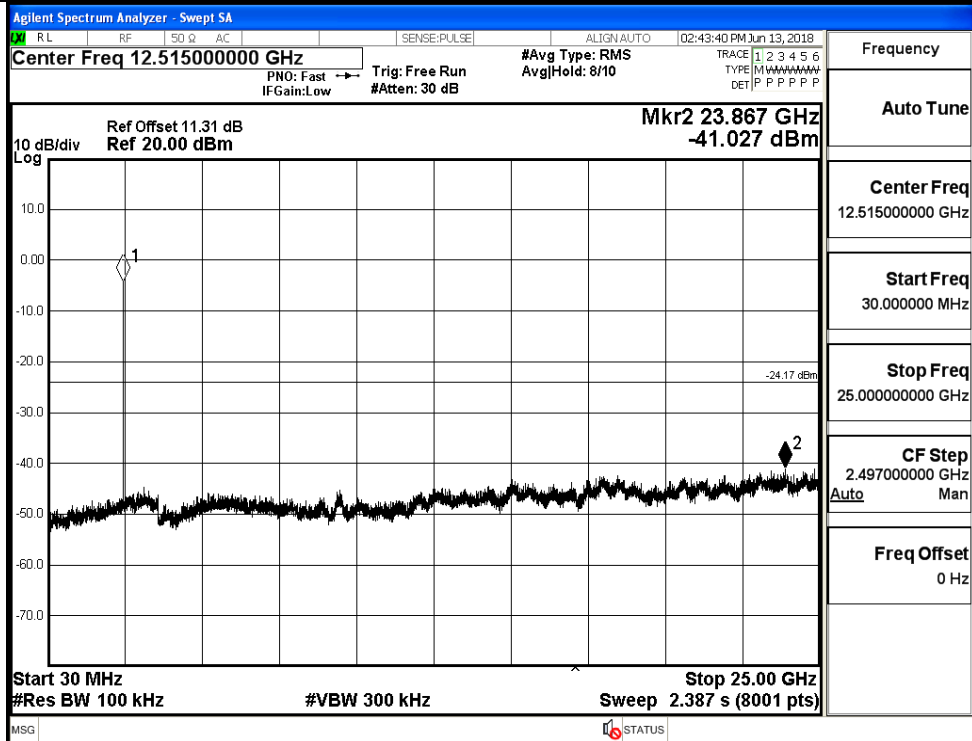


BT LE_HCH_Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

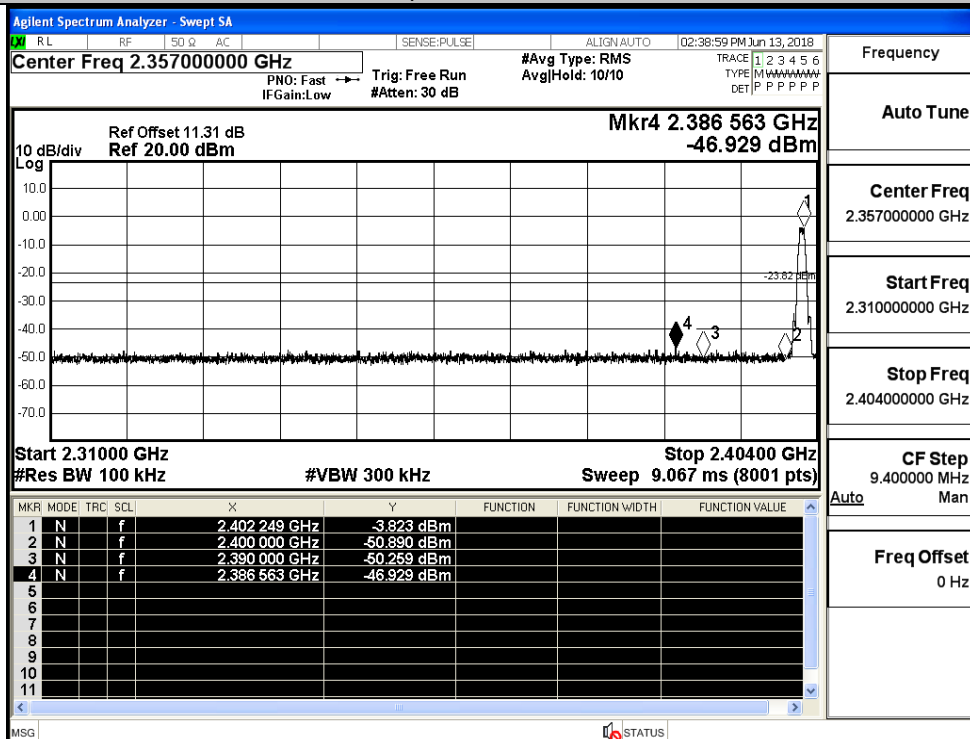


B.6 Band-edge for RF Conducted Emissions

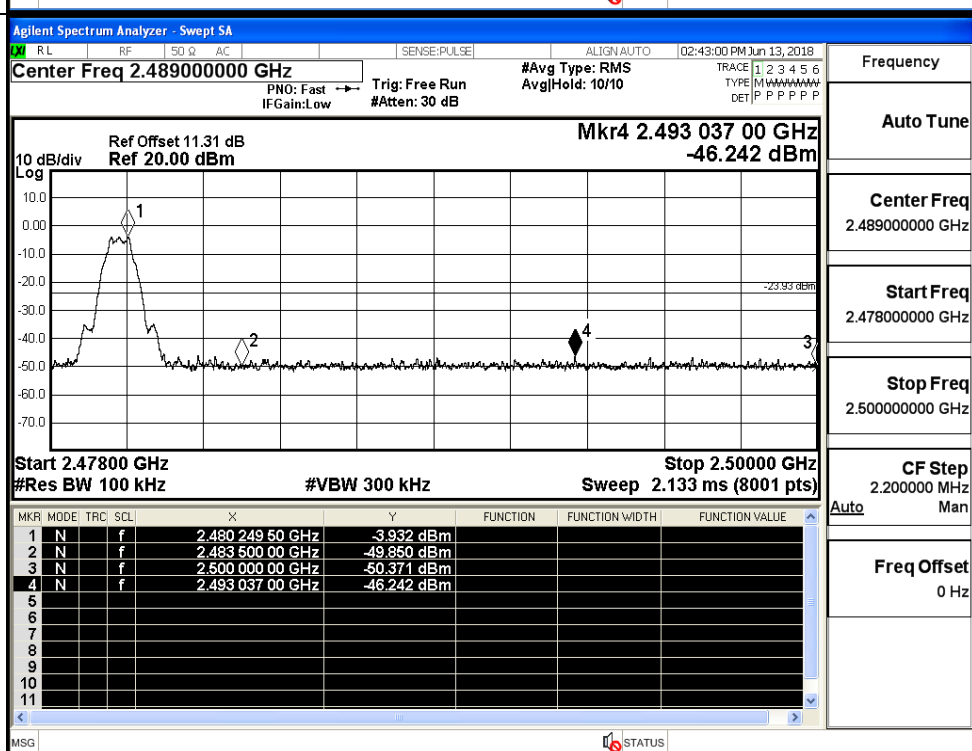
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.823	-46.929	-23.82	PASS
BT LE	HCH	-3.932	-46.242	-23.93	PASS

Test Graphs

LCH



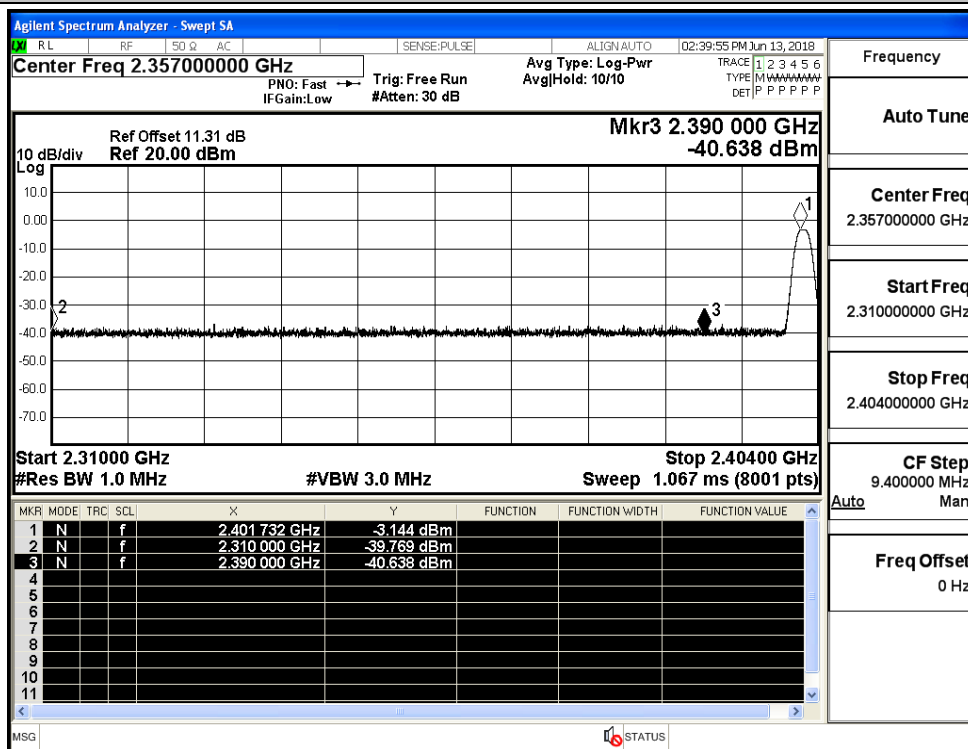
HCH



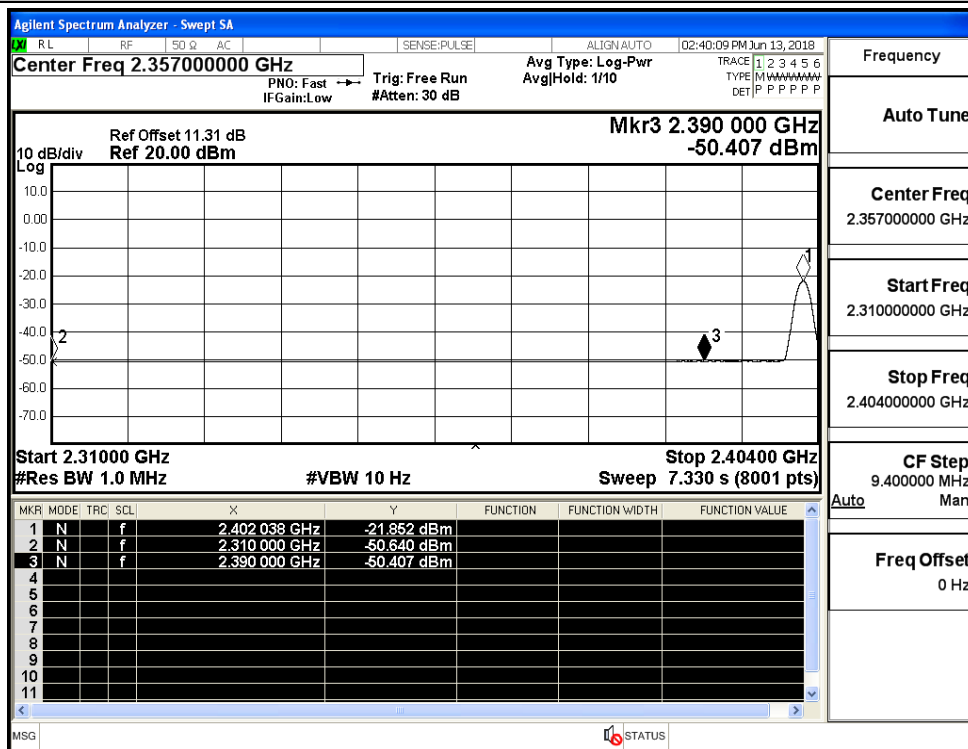
B.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-39.77	2.0	0	57.49	PEAK	74	PASS
		Ant1	2310.0	-50.64	2.0	0	46.62	AV	54	PASS
		Ant1	2390.0	-40.64	2.0	0	56.62	PEAK	74	PASS
		Ant1	2390.0	-50.41	2.0	0	46.85	AV	54	PASS
	2480	Ant1	2483.5	-39.18	2.0	0	58.08	PEAK	74	PASS
		Ant1	2483.5	-50.19	2.0	0	47.07	AV	54	PASS
		Ant1	2500.0	-39.07	2.0	0	58.19	PEAK	74	PASS
		Ant1	2500.0	-50.03	2.0	0	47.23	AV	54	PASS

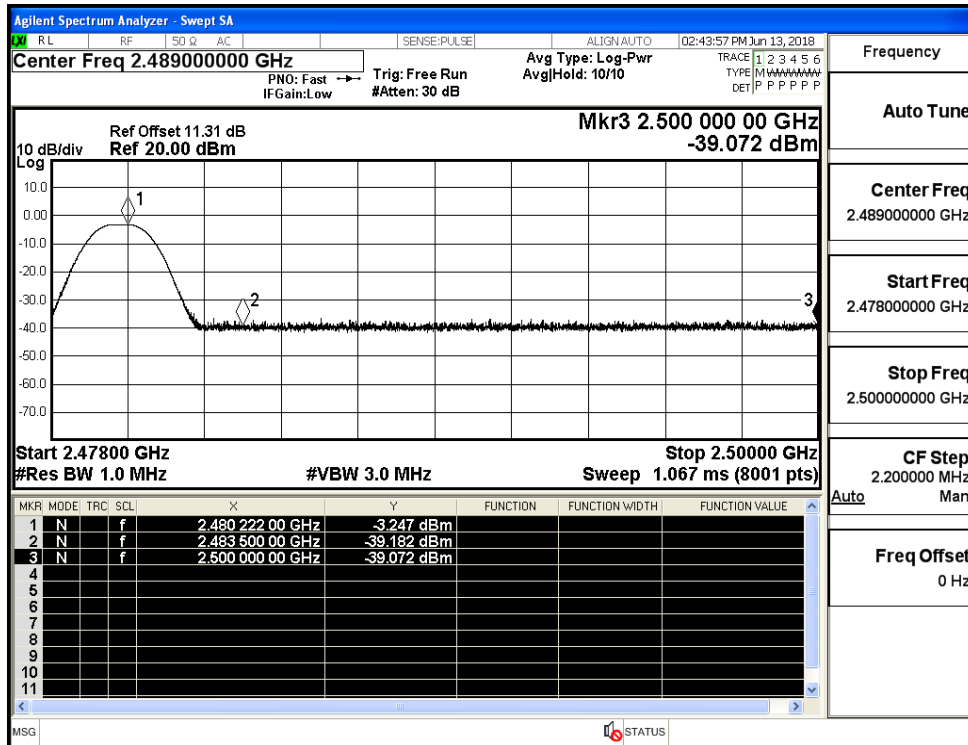
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

