

Appendix A

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

Product Name: Laser engraver

Trade Mark: LaserPecker

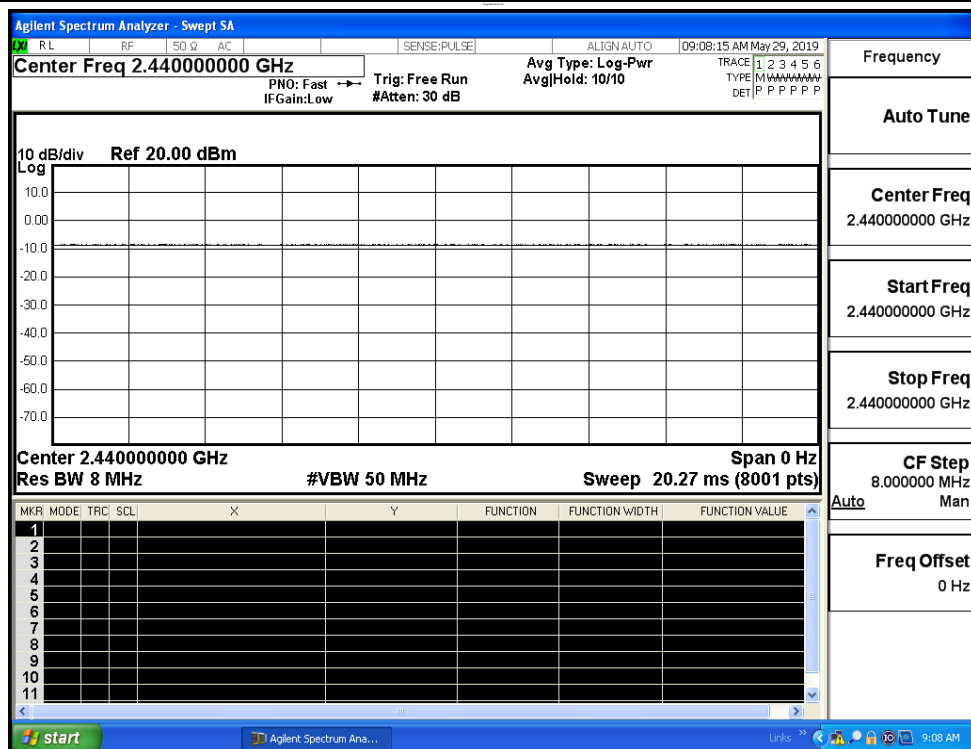
Test Model: L1

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	JERRY ZENG
Supervised by:	Tom.Liu

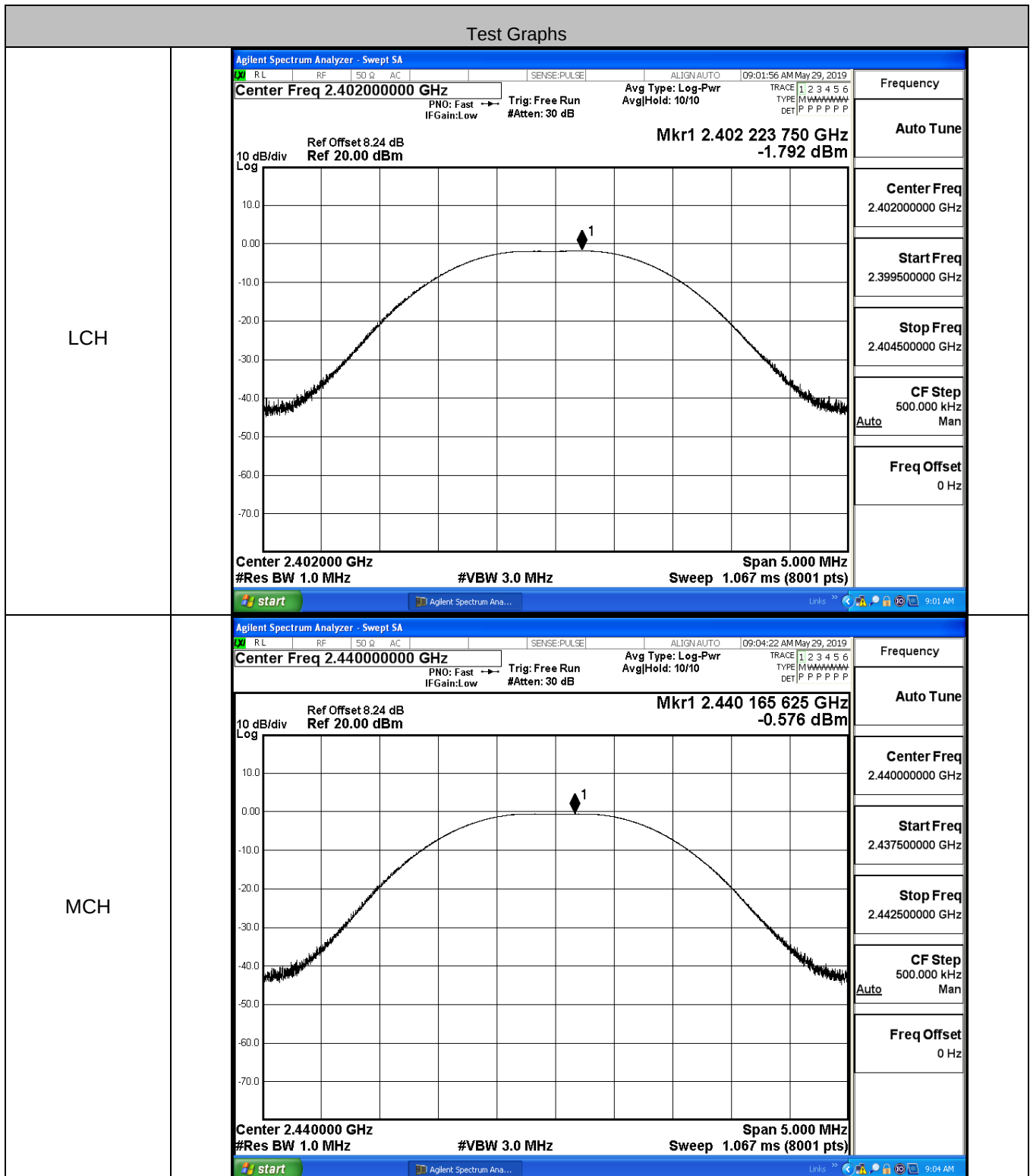
A.1 Duty Cycle

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

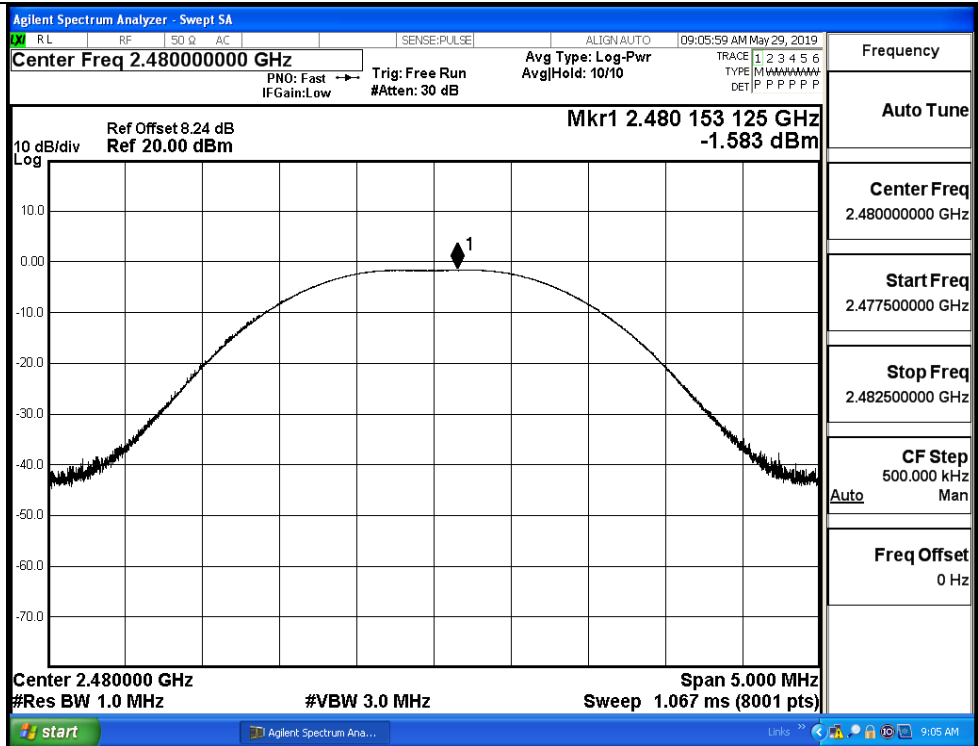


A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.792	30	PASS
BT LE	MCH	-0.576	30	PASS
BT LE	HCH	-1.583	30	PASS



HCH

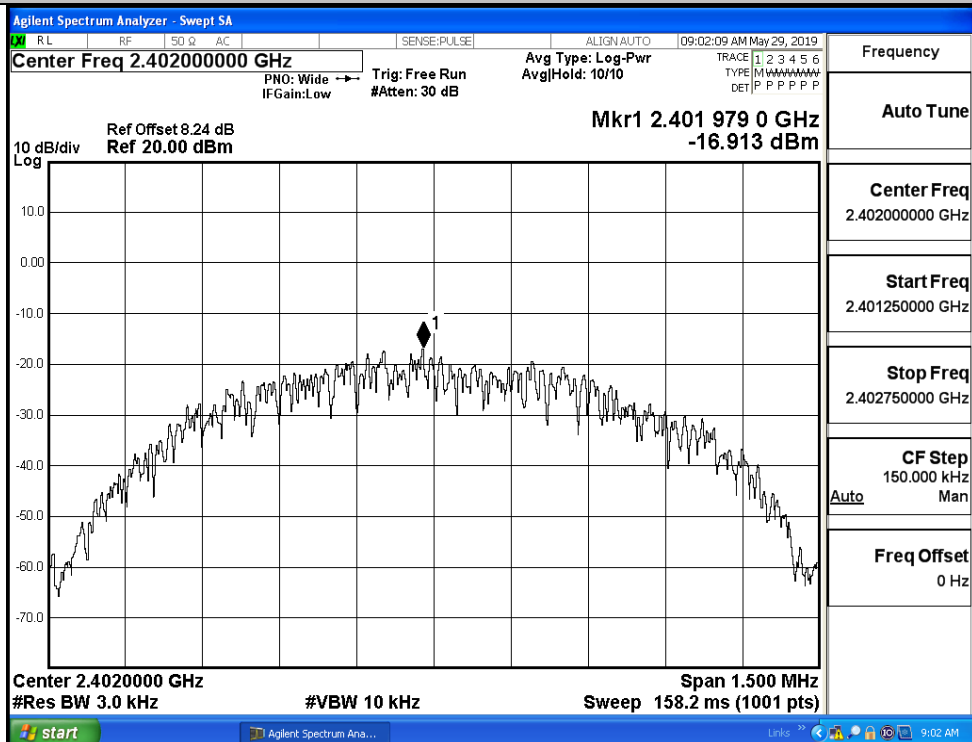


A.3 Maximum Power Spectral Density

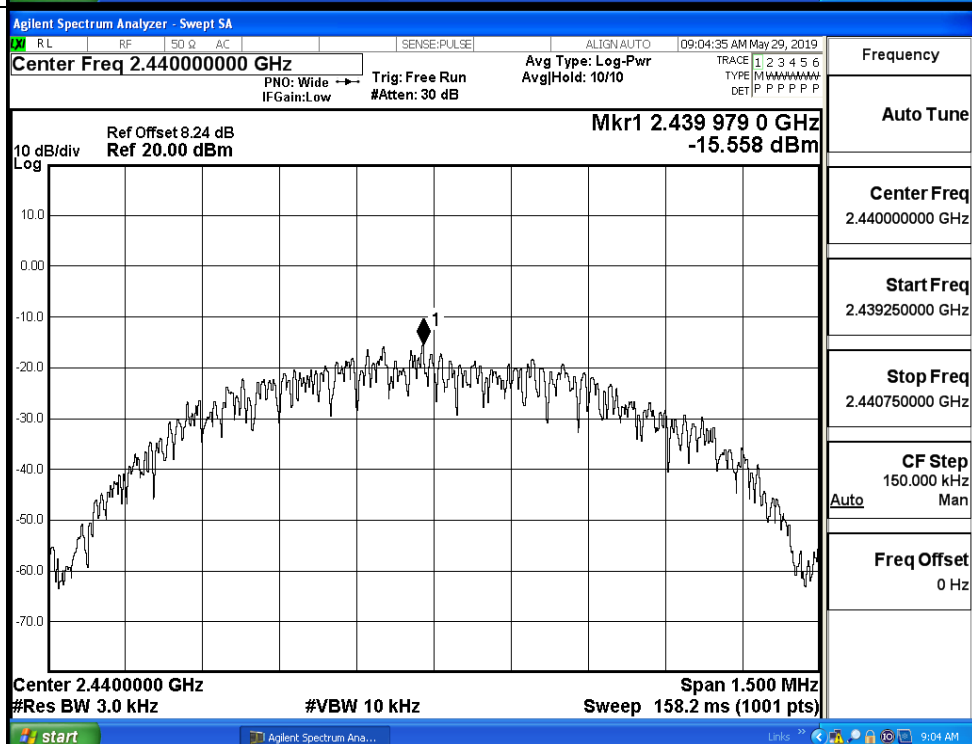
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-16.913	8	PASS
BT LE	MCH	-15.558	8	PASS
BT LE	HCH	-16.819	8	PASS

Test Graphs

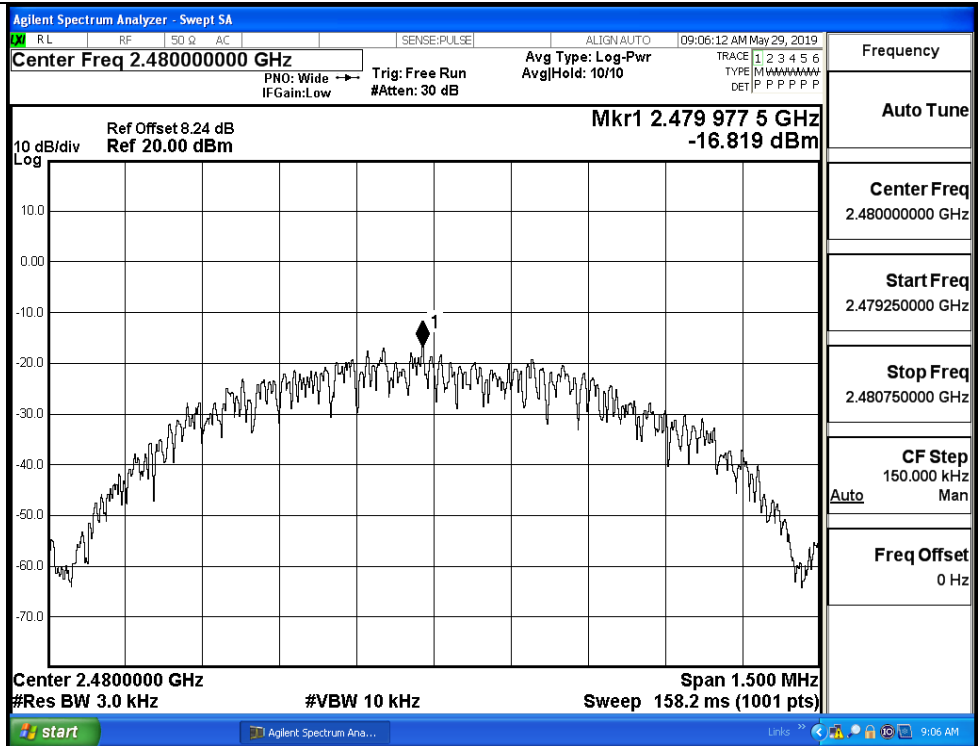
LCH



MCH



HCH

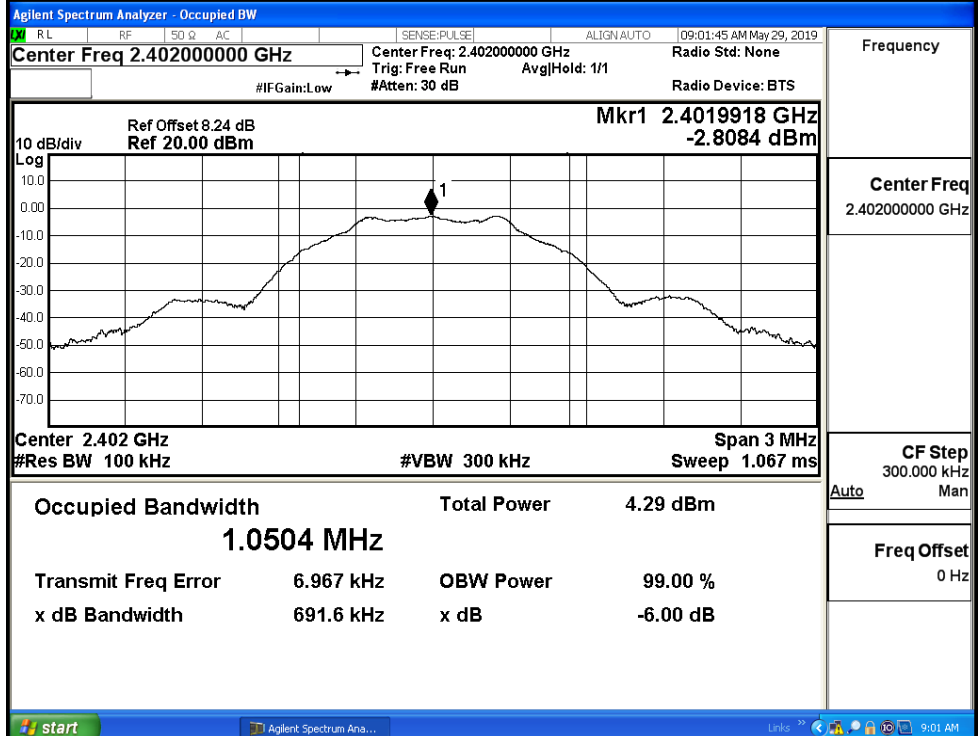


A.4 6dB Bandwidth

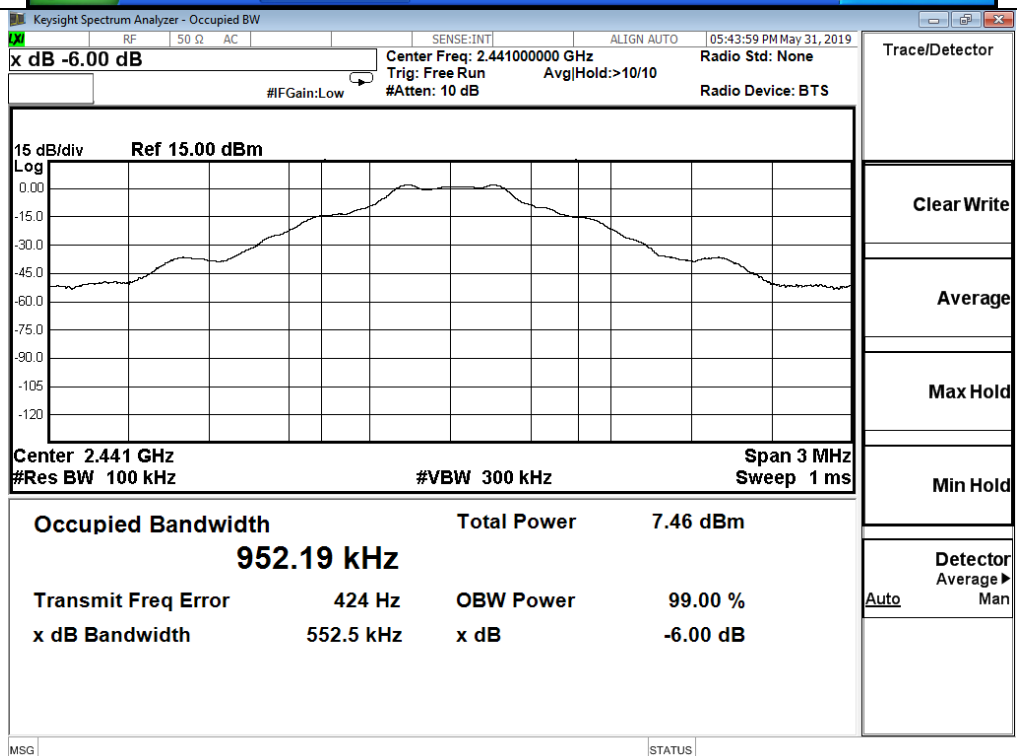
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6916	≥ 0.5	PASS
BT LE	MCH	0.5525	≥ 0.5	PASS
BT LE	HCH	0.6831	≥ 0.5	PASS

Test Graphs

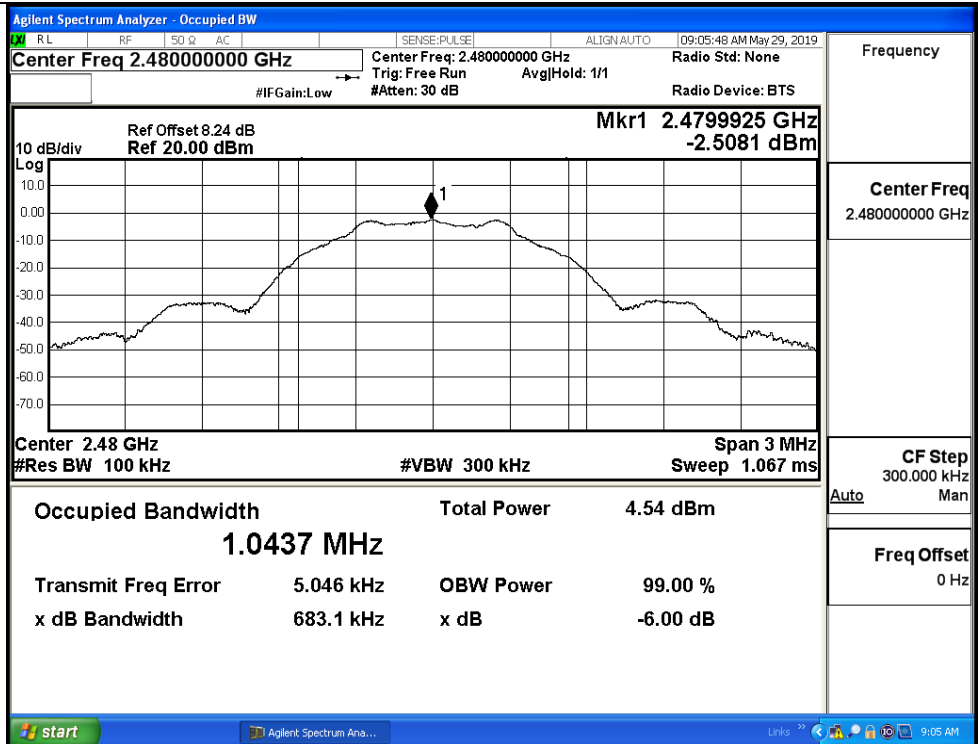
LCH



MCH



HCH

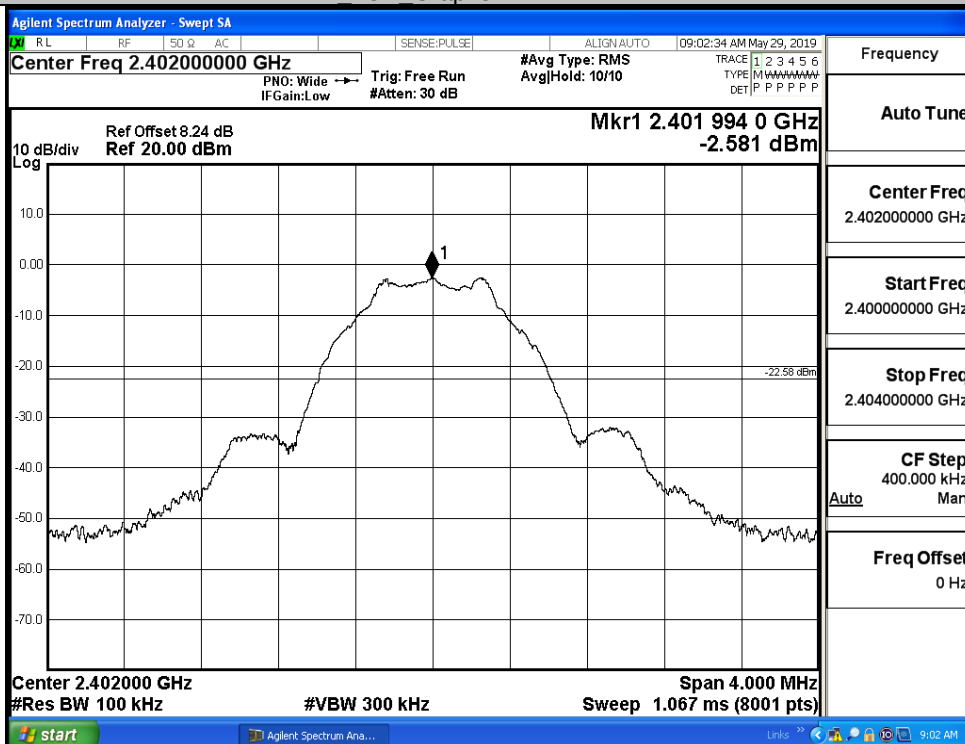


A.5 RF Conducted Spurious Emissions

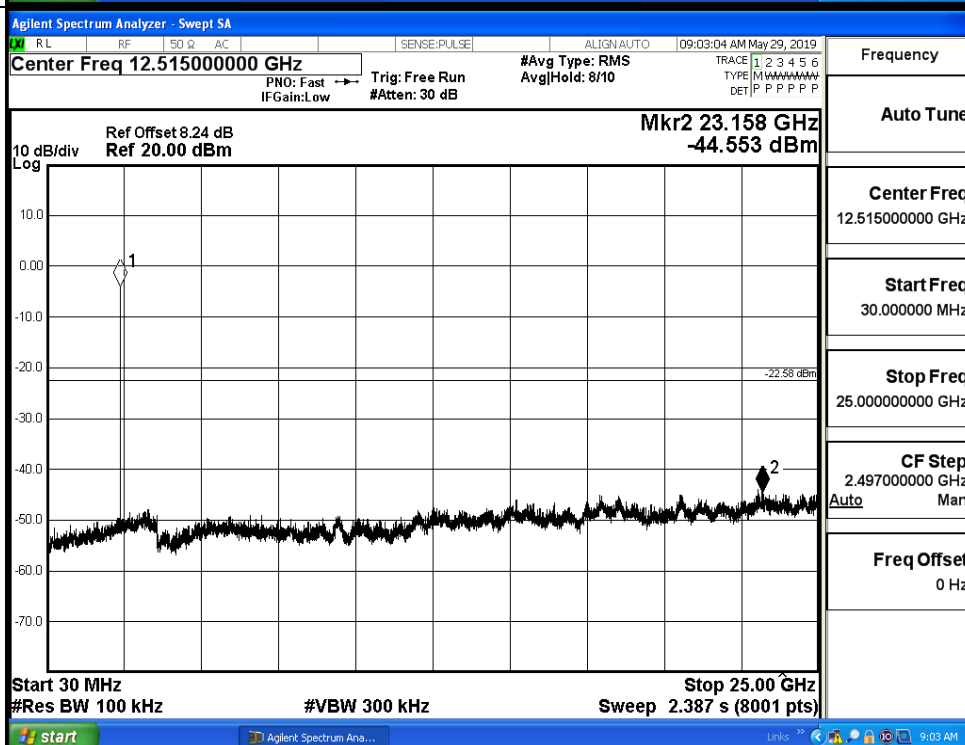
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.581	-44.553	-22.581	PASS
BT LE	MCH	-1.415	-44.081	-21.415	PASS
BT LE	HCH	-2.467	-43.798	-22.467	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

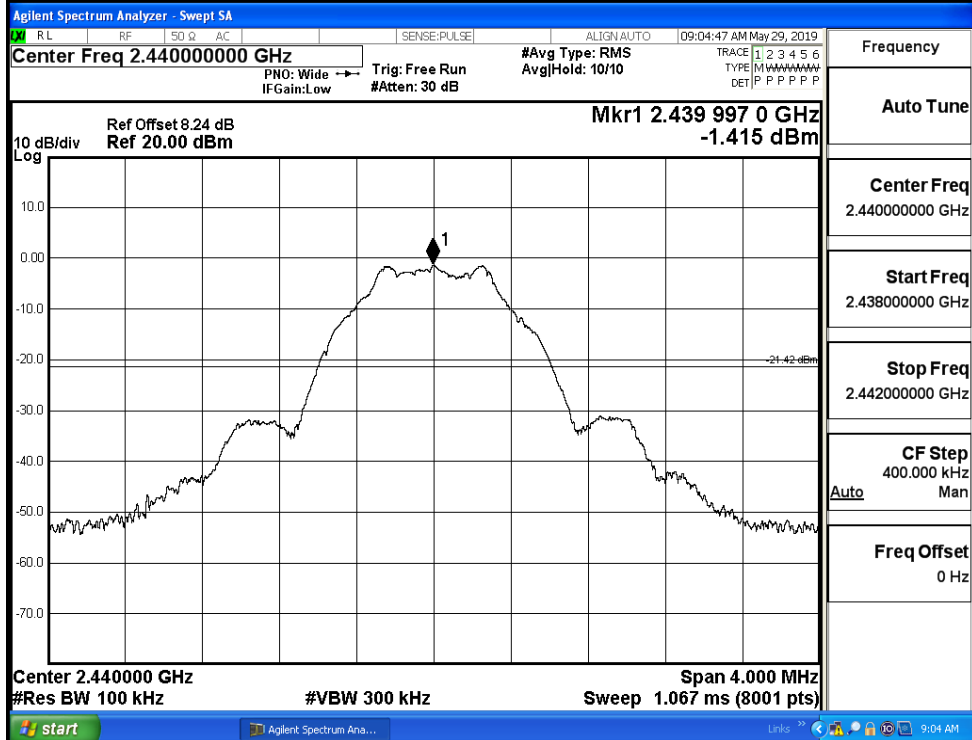


Puw/BT LE/LCH

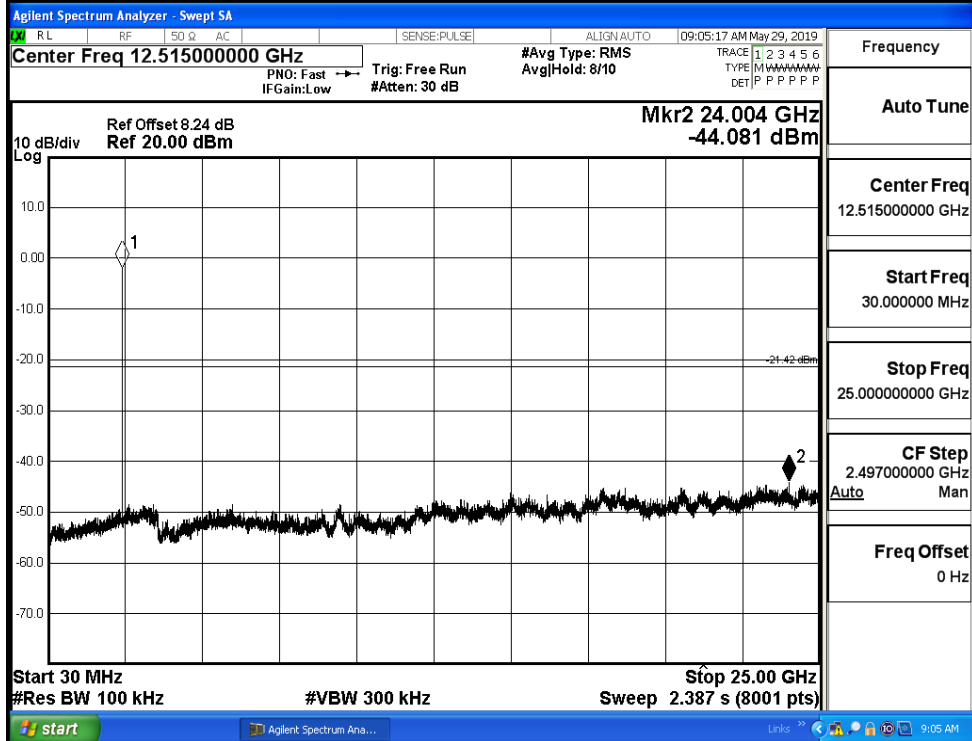


BT LE MCH Graphs

Pref/BT LE/MCH

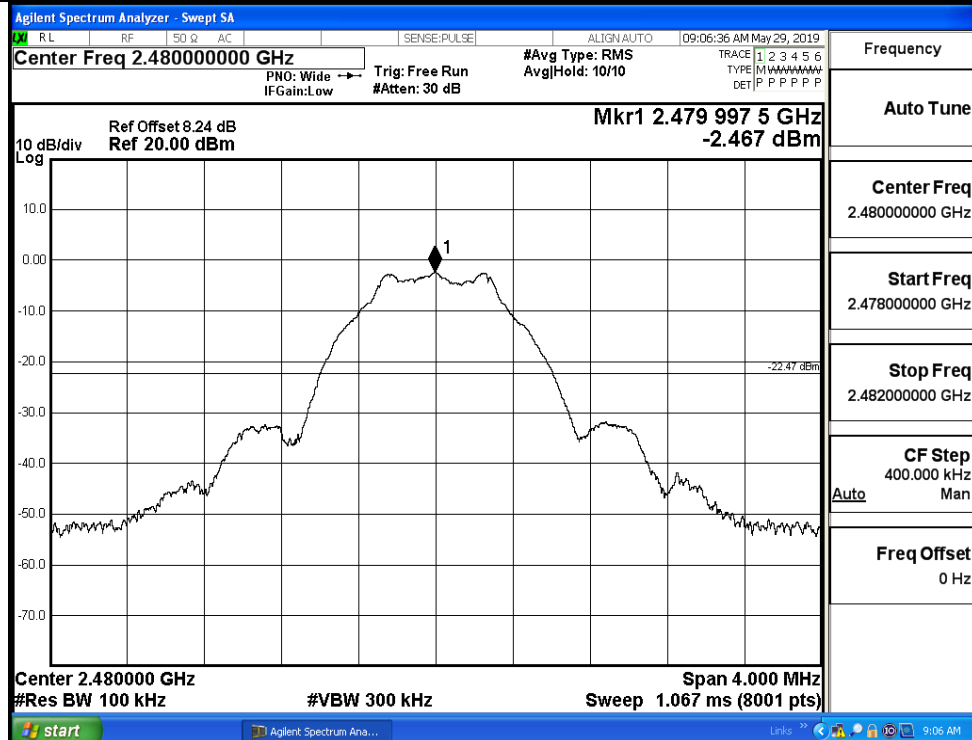


Puw/BT LE/MCH

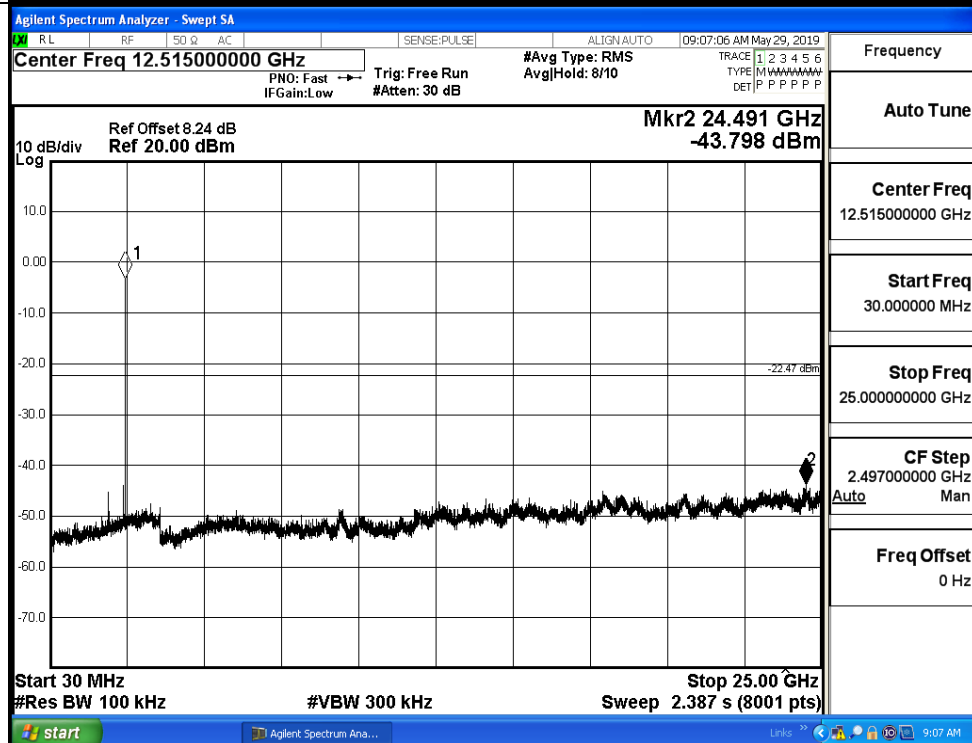


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

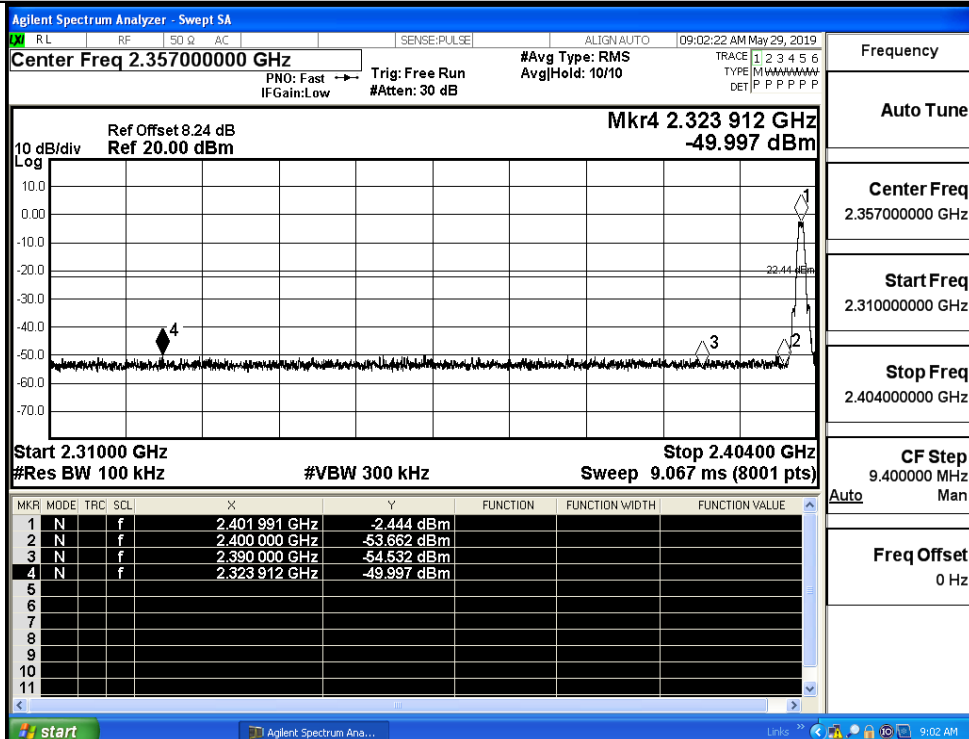


A.6 Band-edge for RF Conducted Emissions

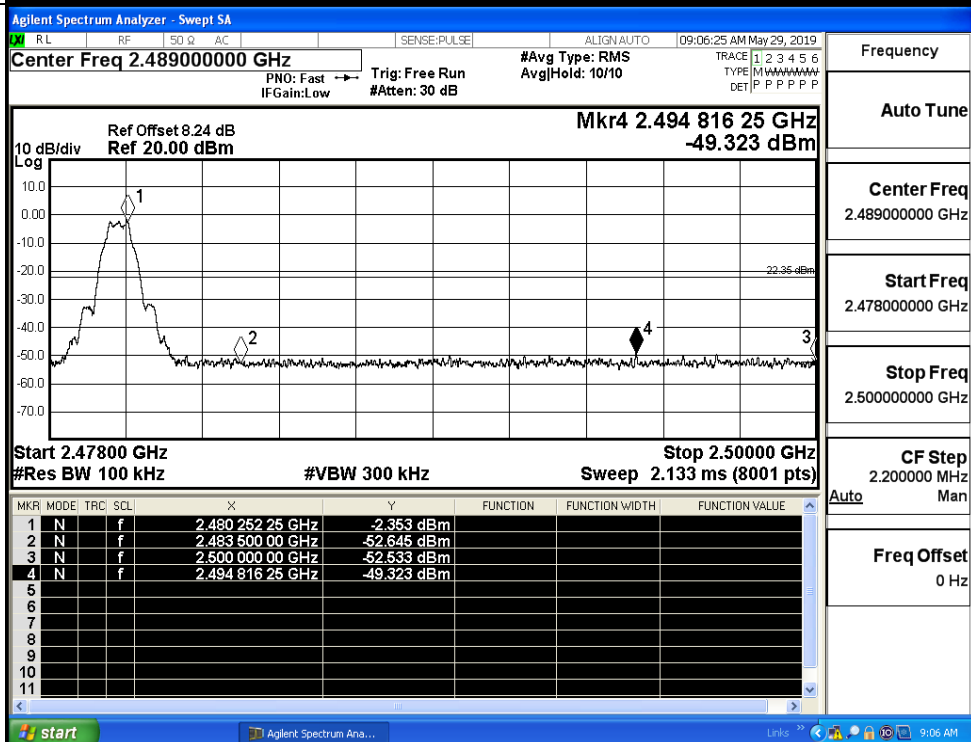
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.444	-49.997	-22.44	PASS
BT LE	HCH	-2.353	-49.323	-22.35	PASS

Test Graphs

LCH



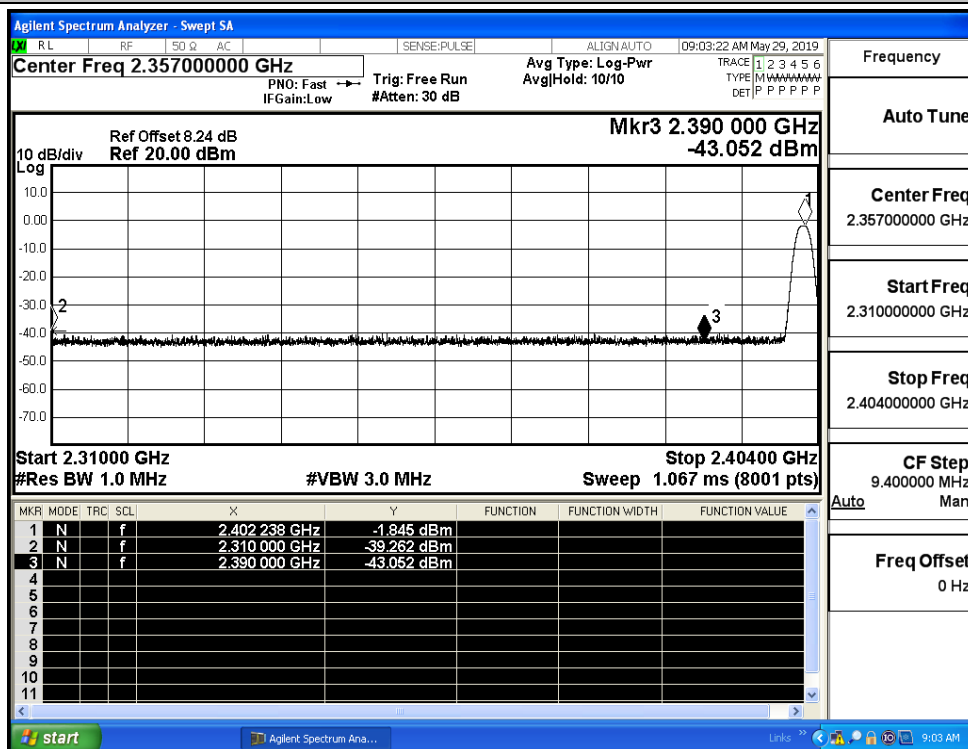
HCH



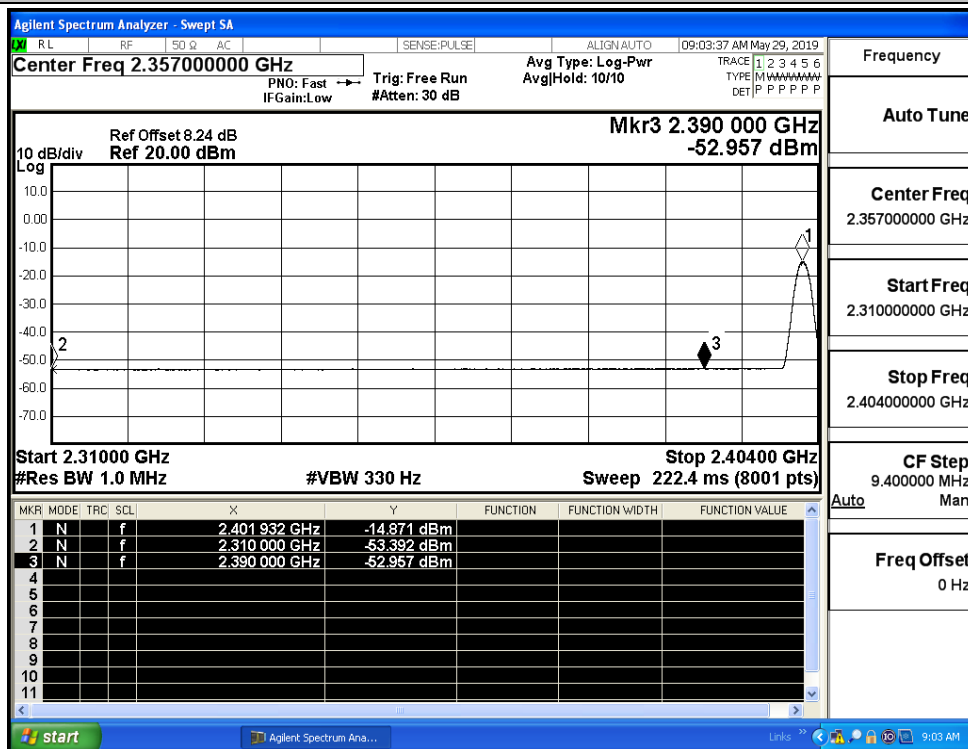
A.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-39.26	2.0	0	58.00	PEAK	74	PASS
		Ant1	2310.0	-53.39	2.0	0	43.87	AV	54	PASS
		Ant1	2390.0	-43.05	2.0	0	54.21	PEAK	74	PASS
		Ant1	2390.0	-52.96	2.0	0	44.30	AV	54	PASS
	2480	Ant1	2483.5	-41.63	2.0	0	55.63	PEAK	74	PASS
		Ant1	2483.5	-52.73	2.0	0	44.53	AV	54	PASS
		Ant1	2500.0	-42.77	2.0	0	54.49	PEAK	74	PASS
		Ant1	2500.0	-52.67	2.0	0	44.59	AV	54	PASS

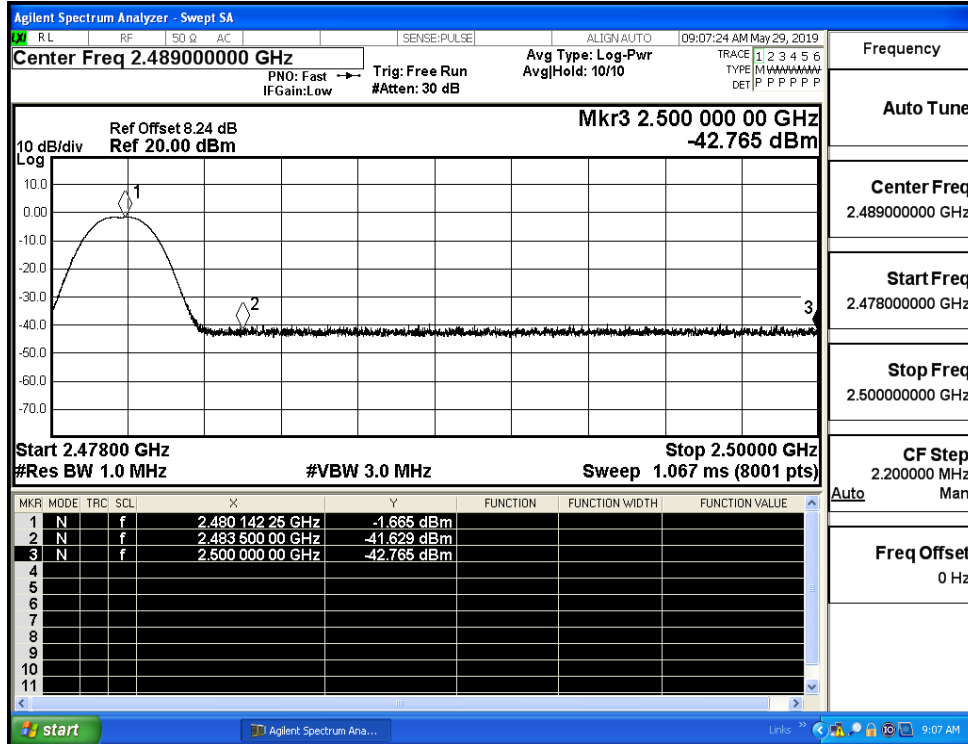
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

