

Appendix B

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

Product Name: **Fitness band**

Trade Mark: **N/A**

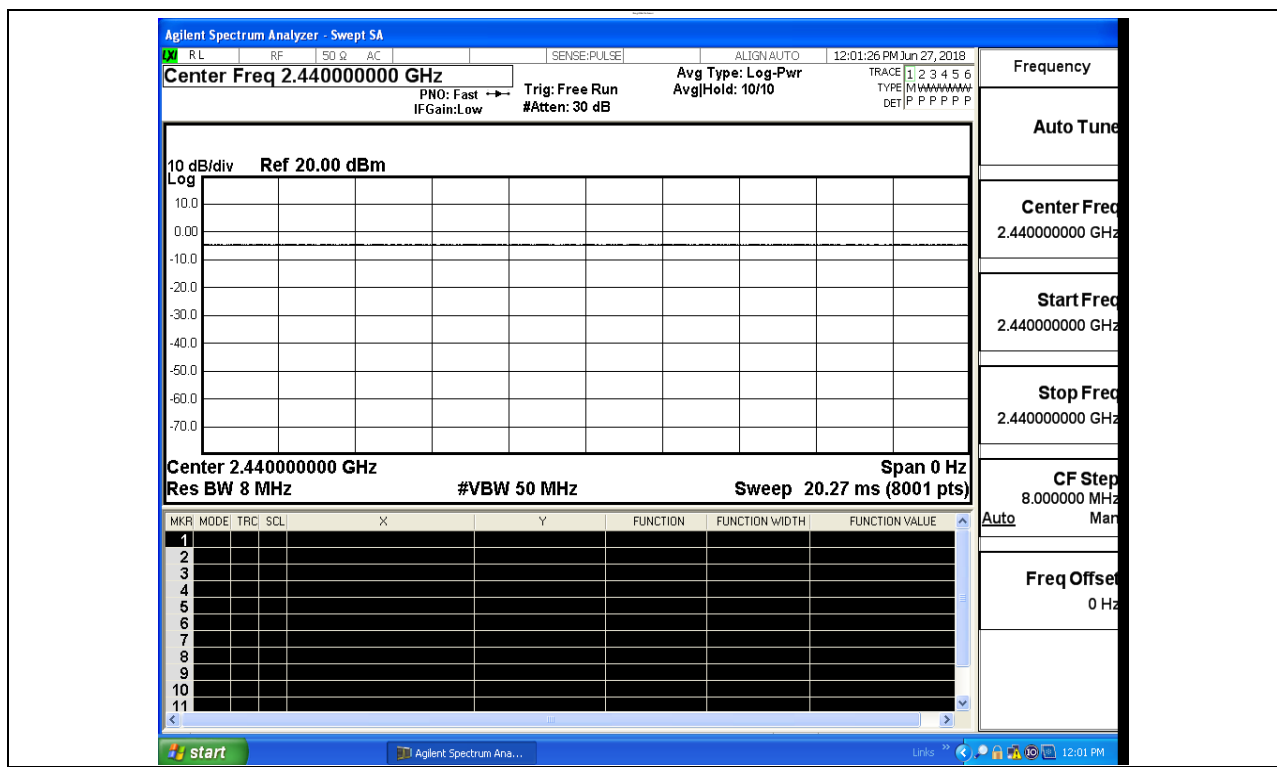
Test Model: **SC-67FB**

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Ryan.Hu
Supervised by:	Jayden.Zhuo

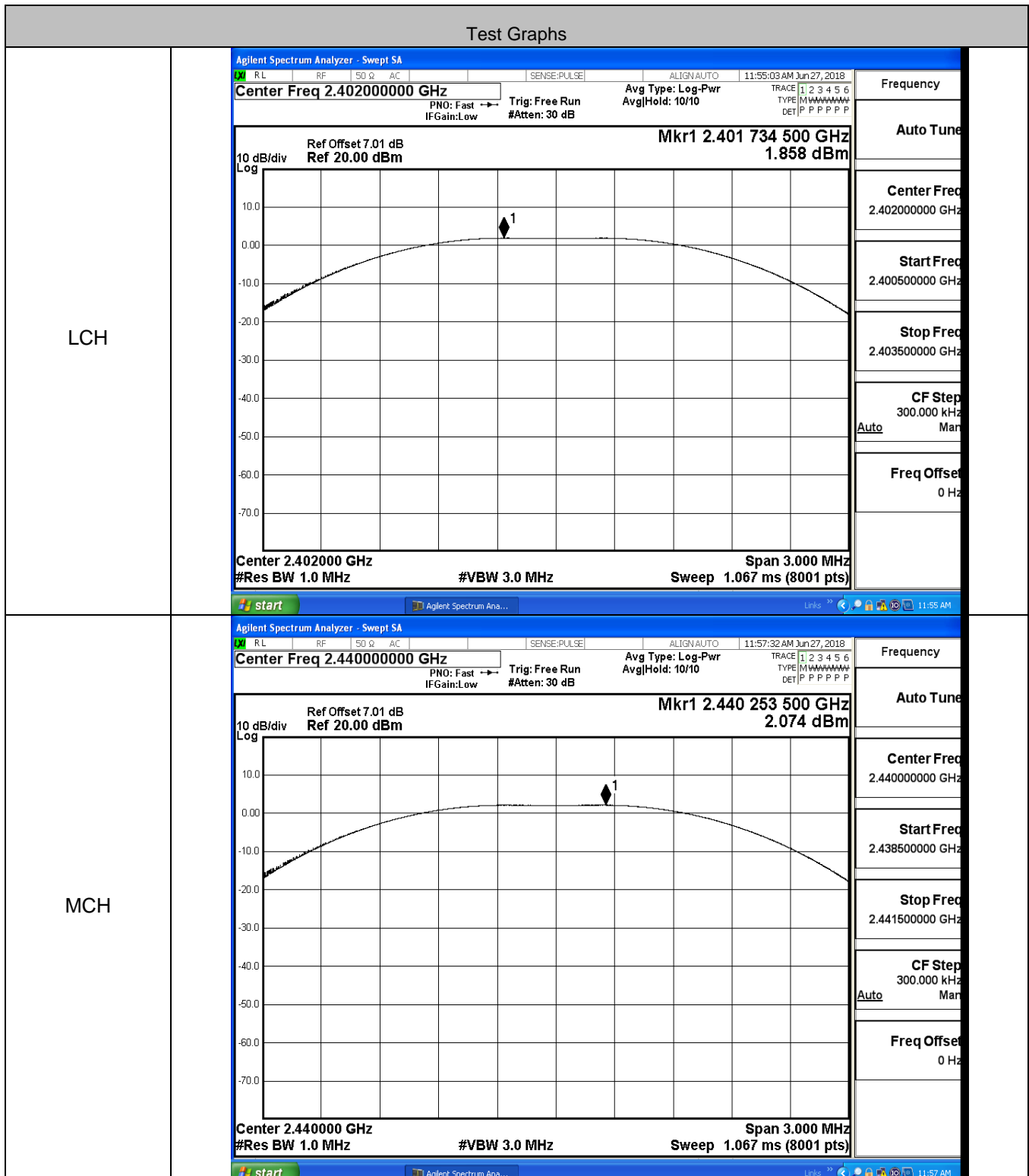
A.1 Duty Cycle

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

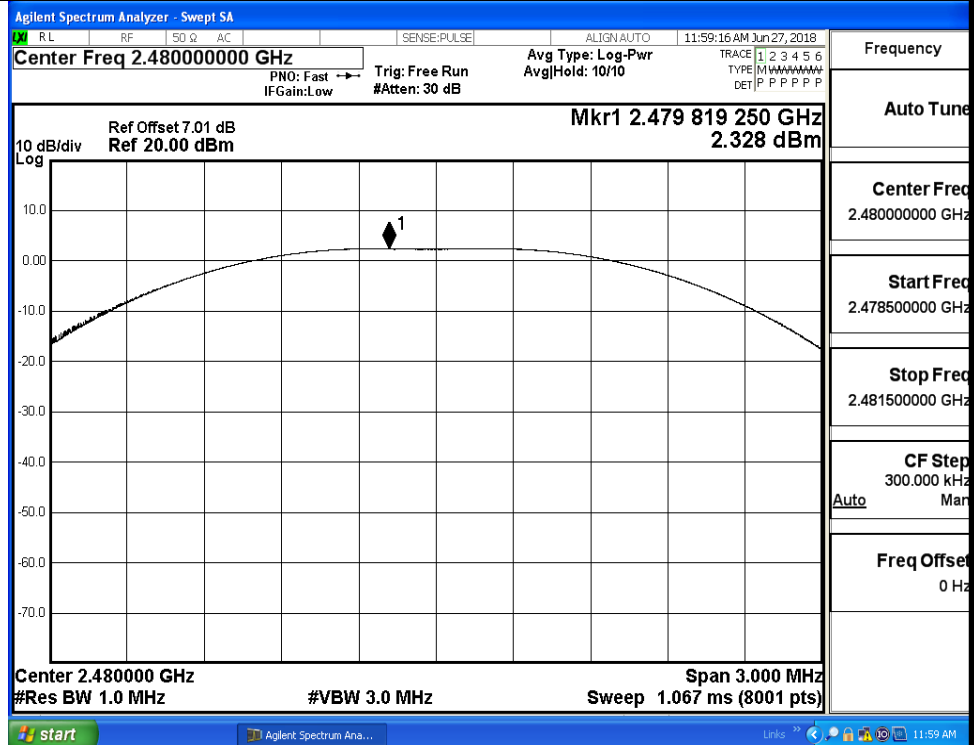


A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.858	30	PASS
BT LE	MCH	2.074	30	PASS
BT LE	HCH	2.328	30	PASS

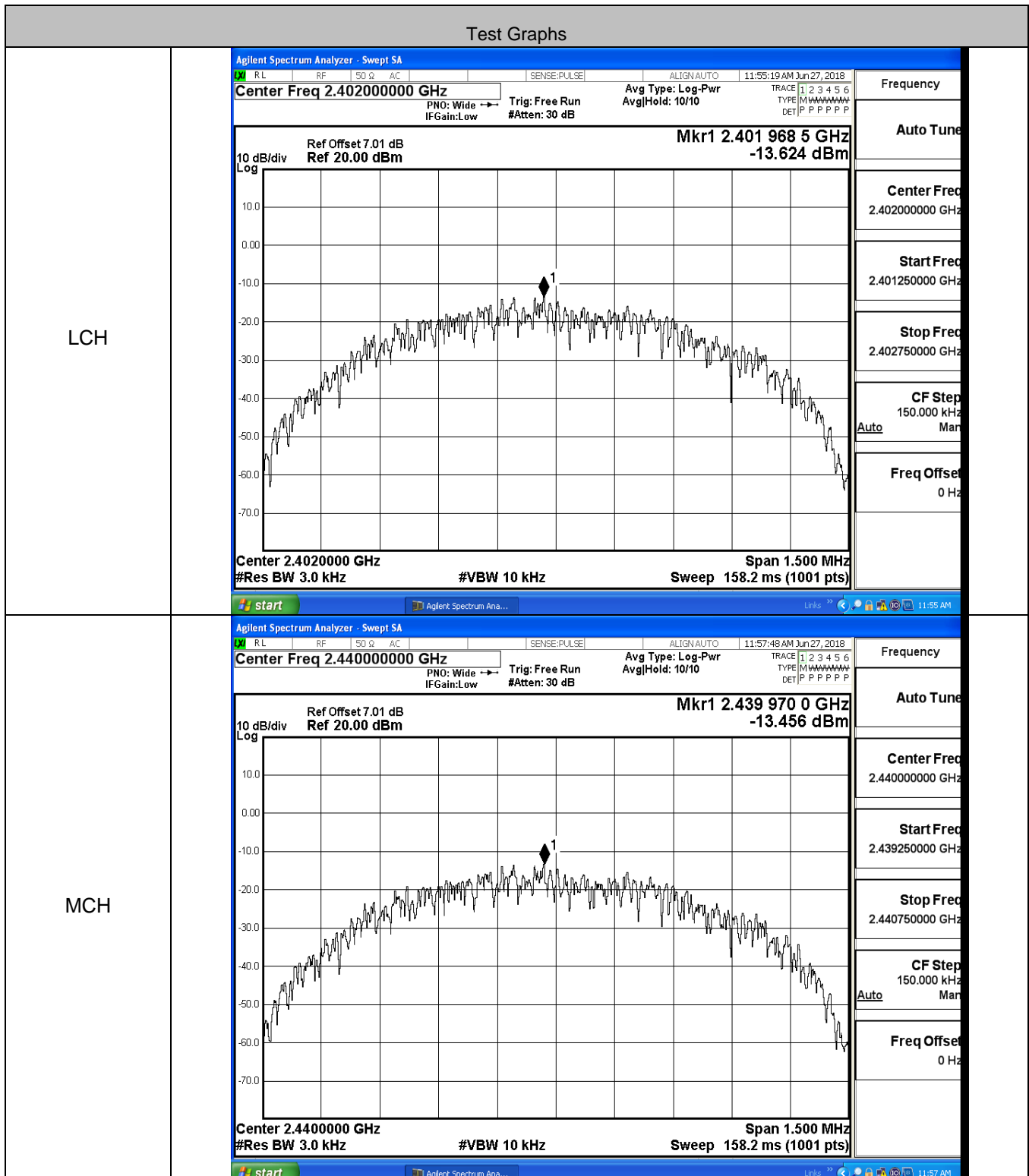


HCH

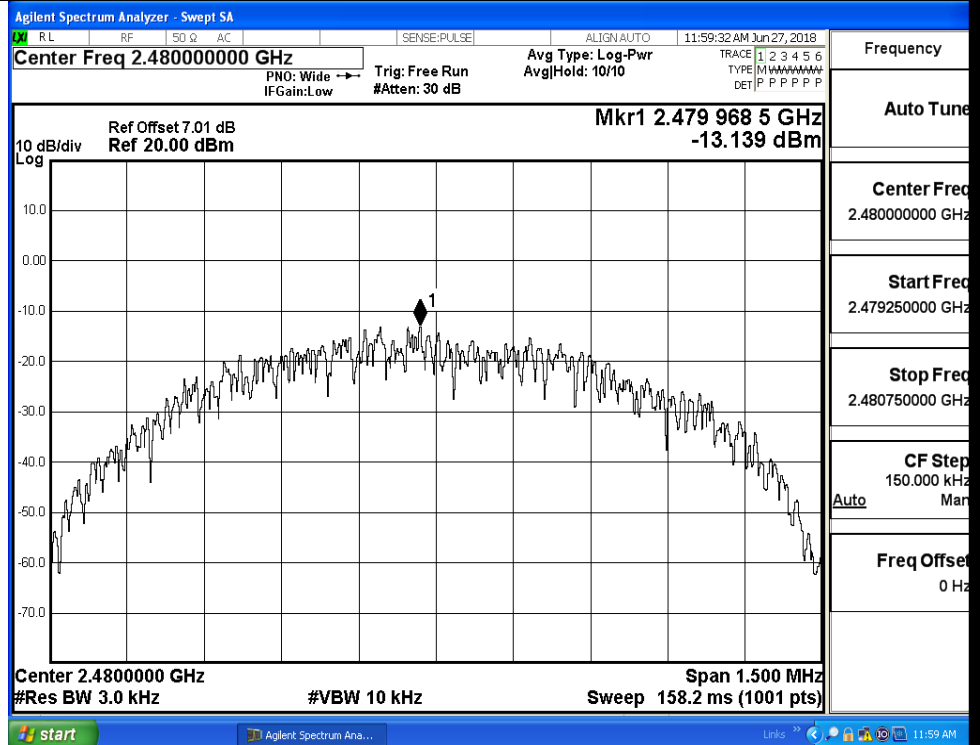


A.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-13.624	8	PASS
BT LE	MCH	-13.456	8	PASS
BT LE	HCH	-13.139	8	PASS



HCH

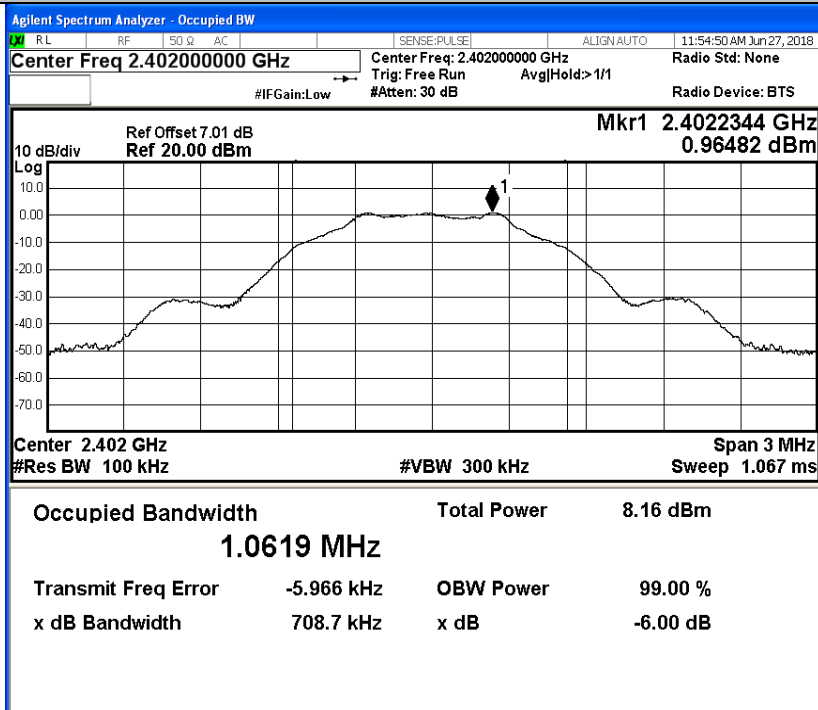


A.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7087	≥ 0.5	PASS
BT LE	MCH	0.7073	≥ 0.5	PASS
BT LE	HCH	0.7080	≥ 0.5	PASS

Test Graphs

LCH



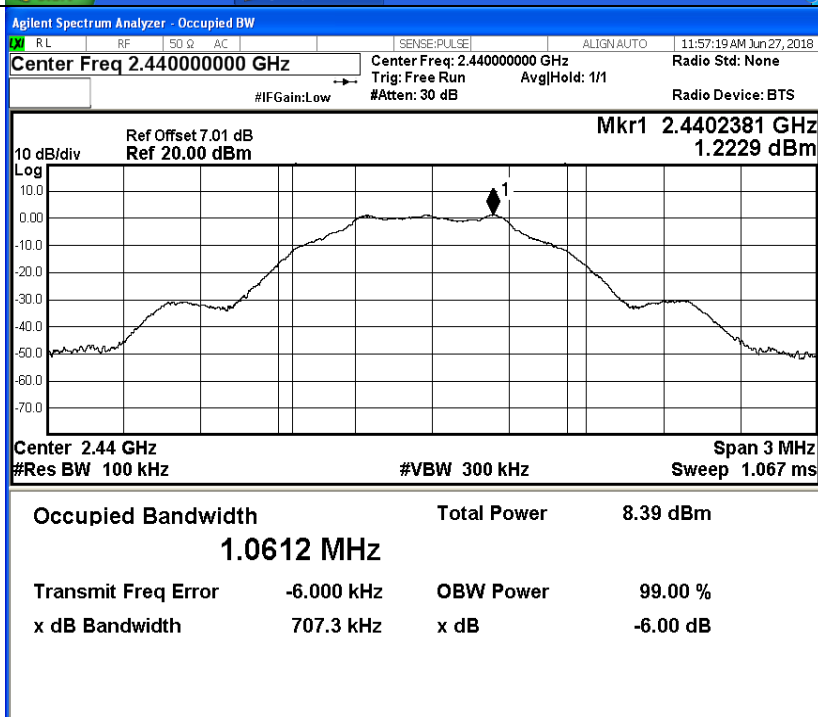
Frequency

Center Freq
2.402000000 GHz

CF Step
300.000 kHz
Man

Freq Offset
0 Hz

MCH



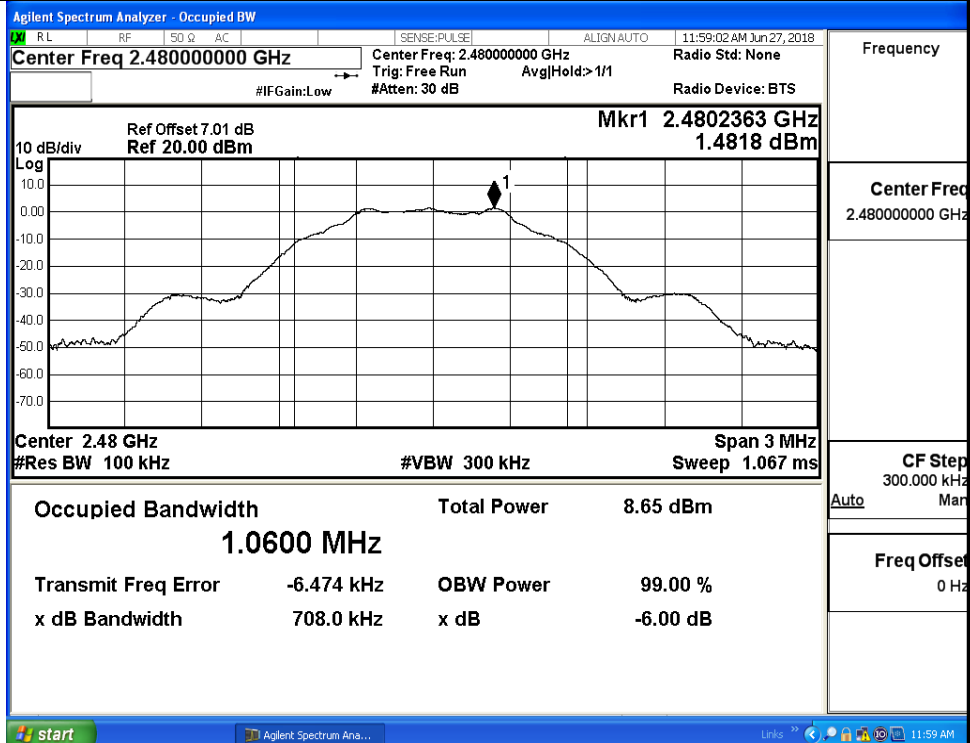
Frequency

Center Freq
2.440000000 GHz

CF Step
300.000 kHz
Man

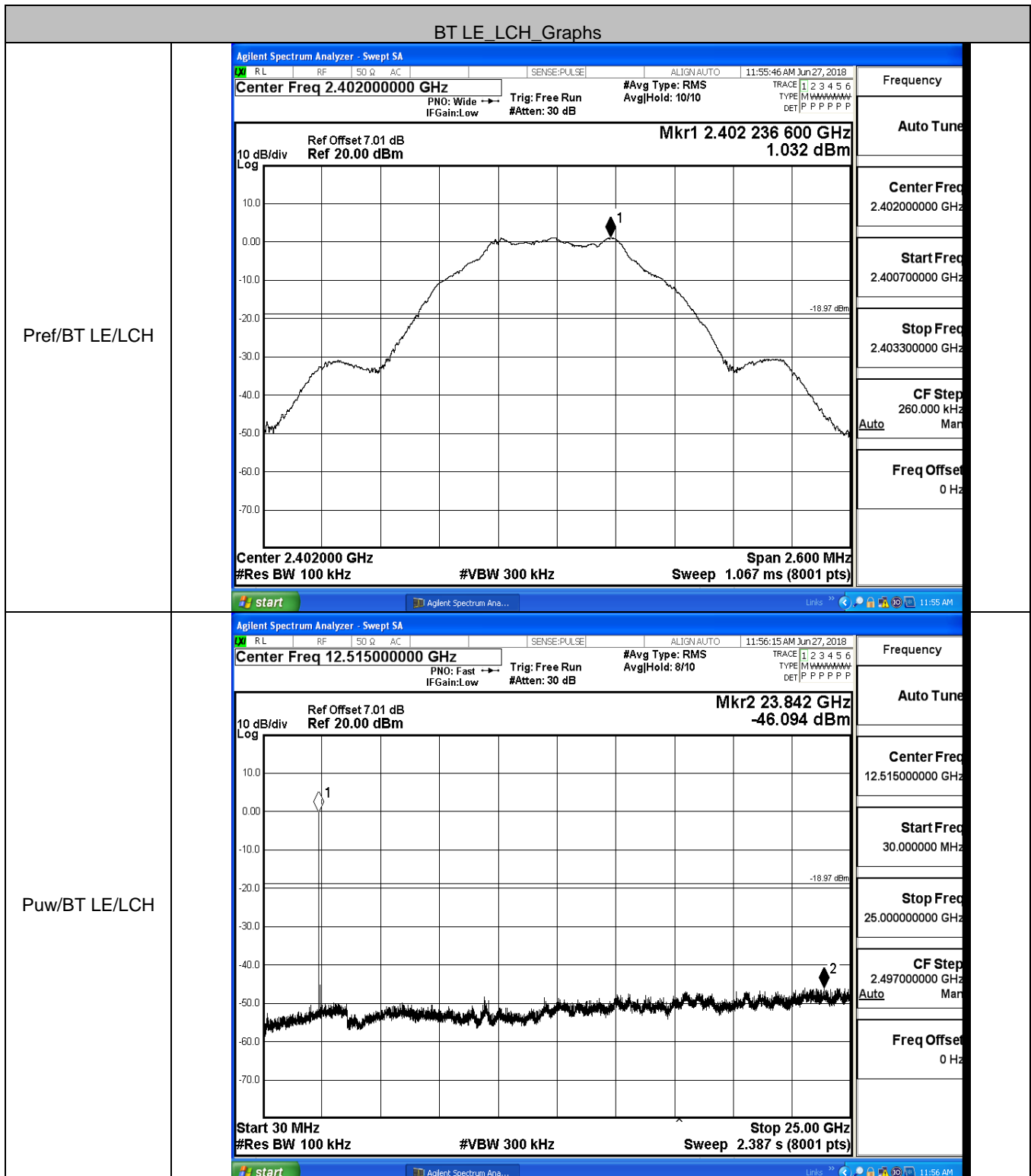
Freq Offset
0 Hz

HCH



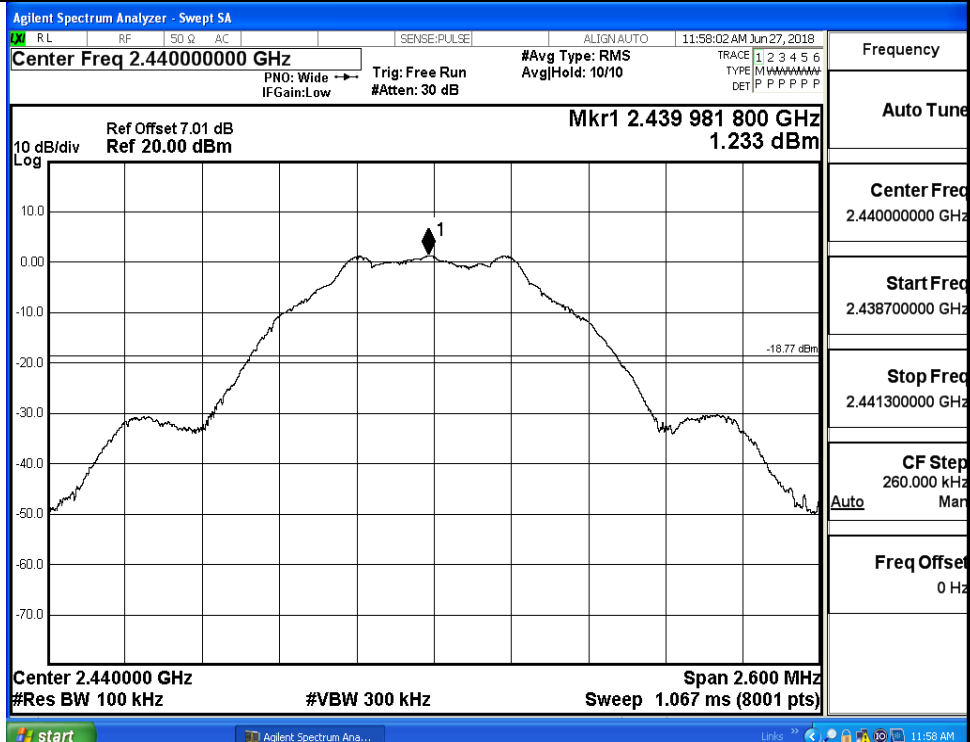
A.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.032	-46.094	-18.968	PASS
BT LE	MCH	1.233	-45.432	-18.767	PASS
BT LE	HCH	1.488	-44.033	-18.512	PASS

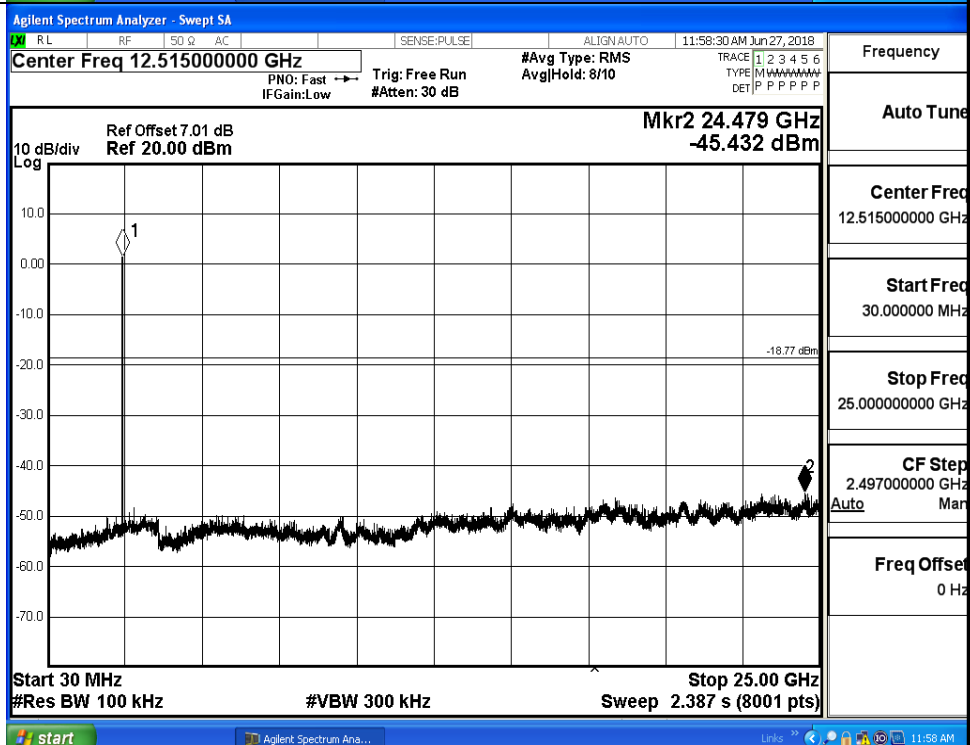


BT LE_MCH_Graphs

Pref/BT LE/MCH

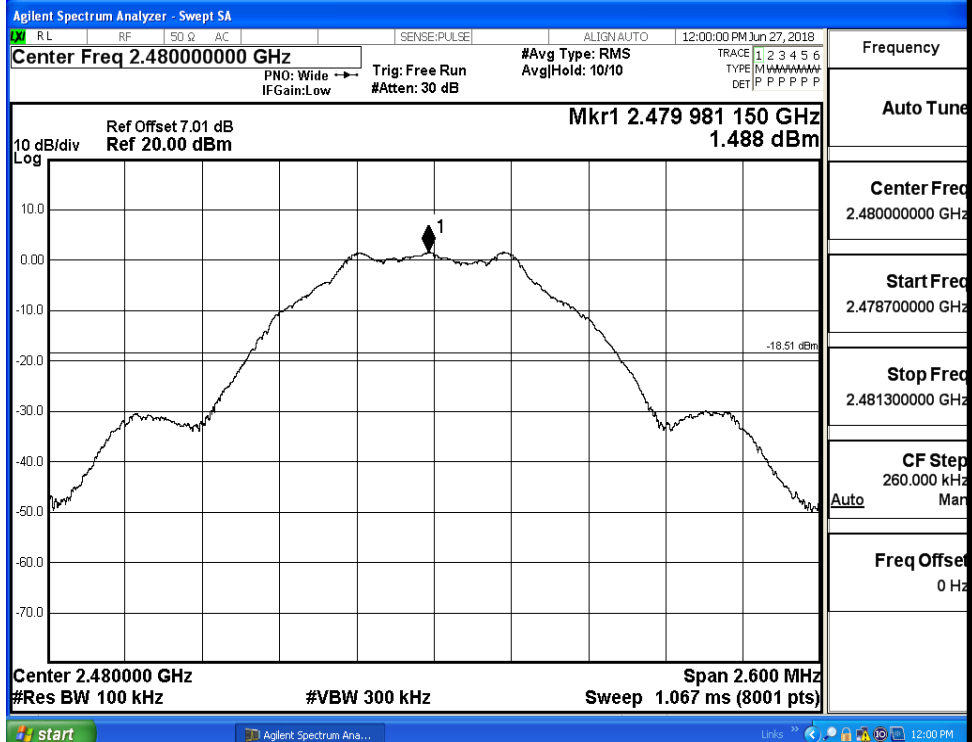


Puw/BT LE/MCH

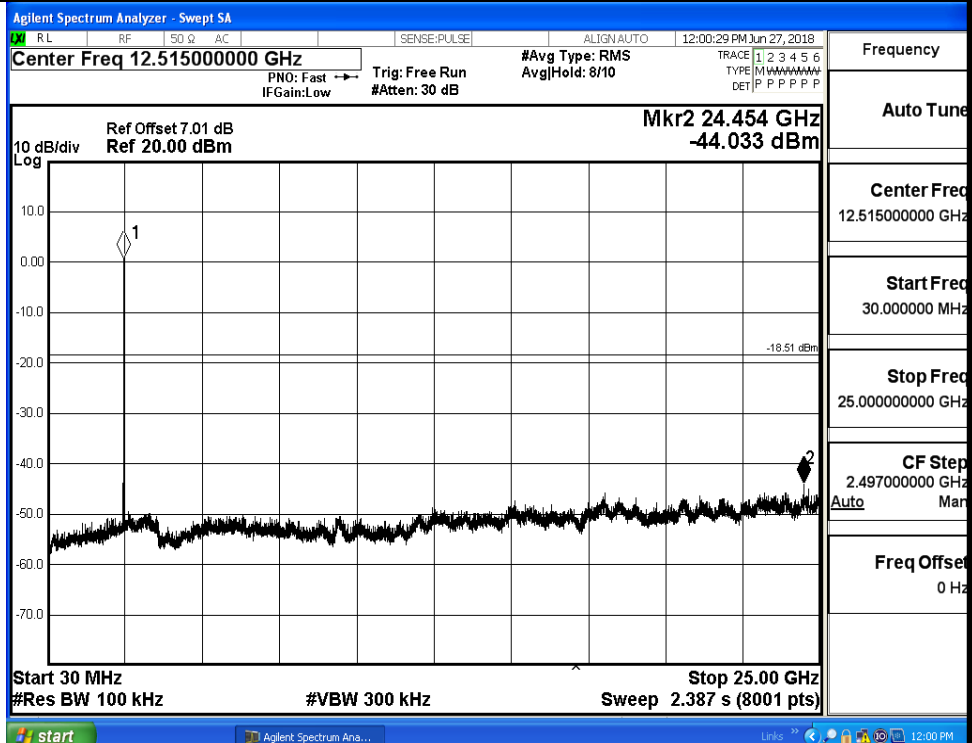


BT LE_HCH_Graphs

Pref/BT LE/HCH

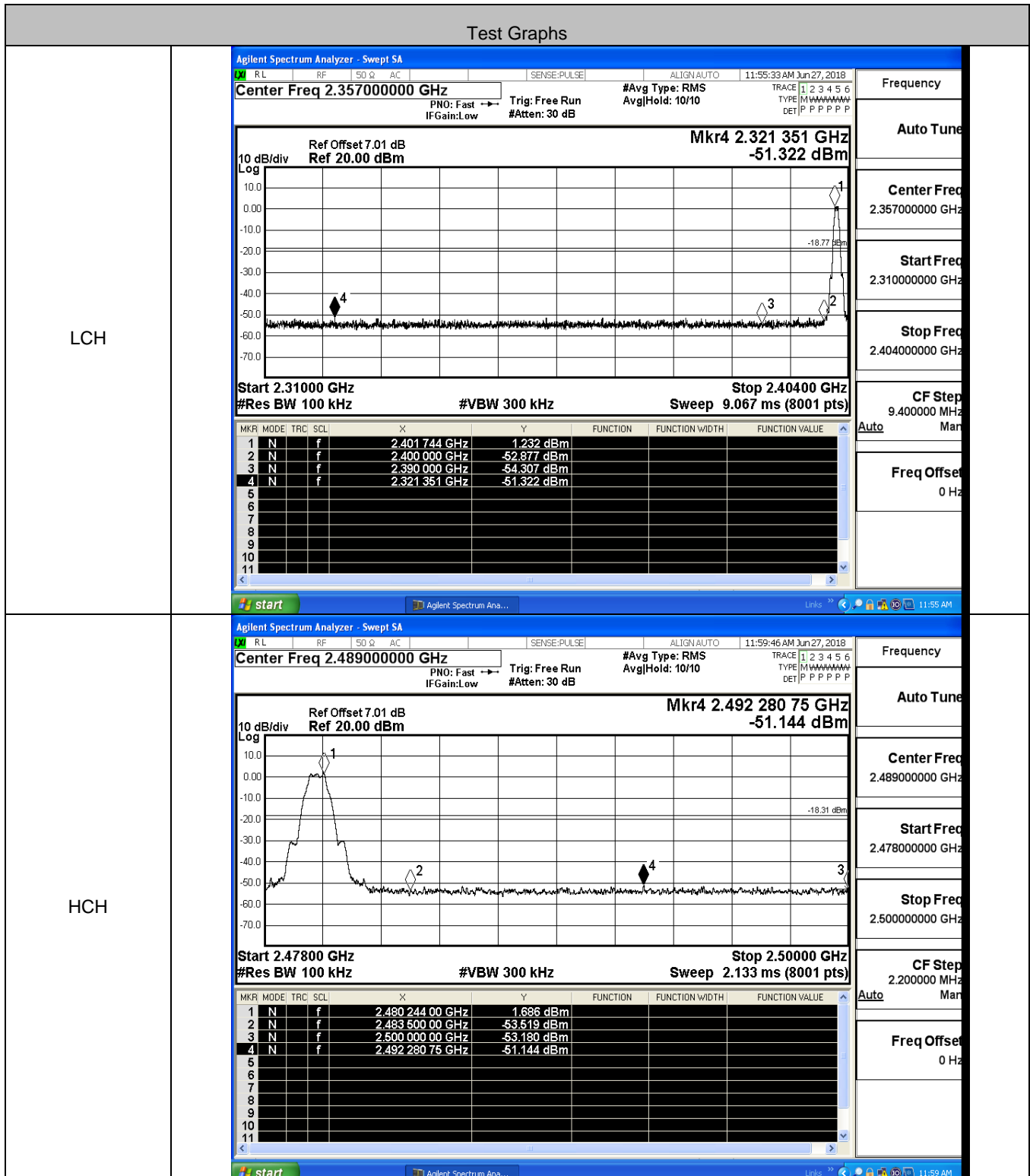


Puw/BT LE/HCH



A.6 Band-edge for RF Conducted Emissions

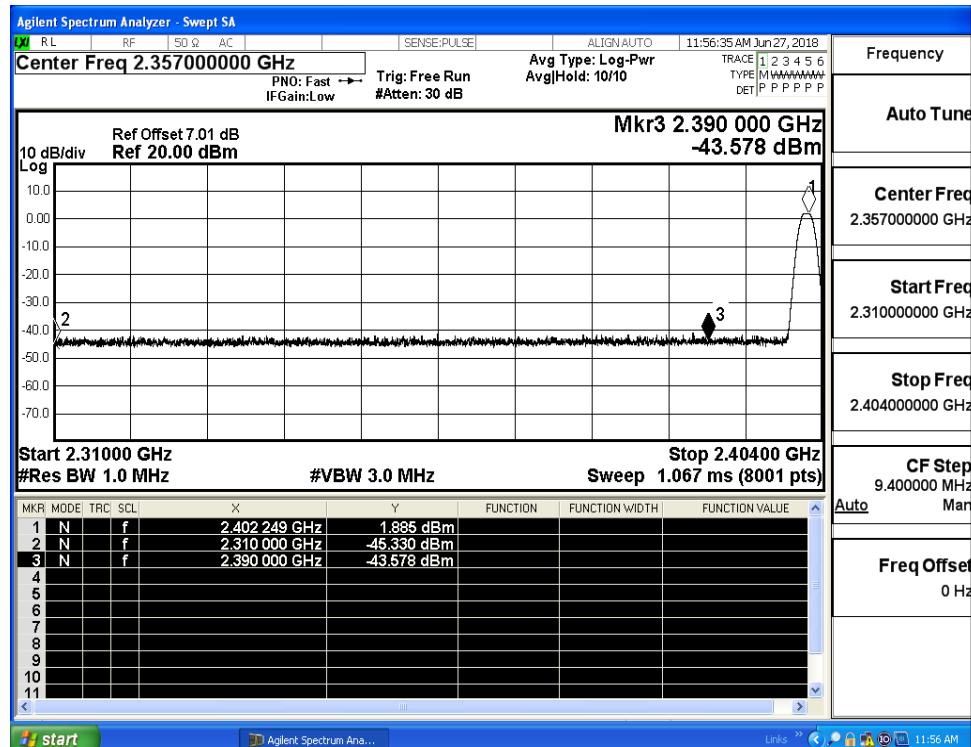
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.232	-51.322	-18.77	PASS
BT LE	HCH	1.686	-51.144	-18.31	PASS



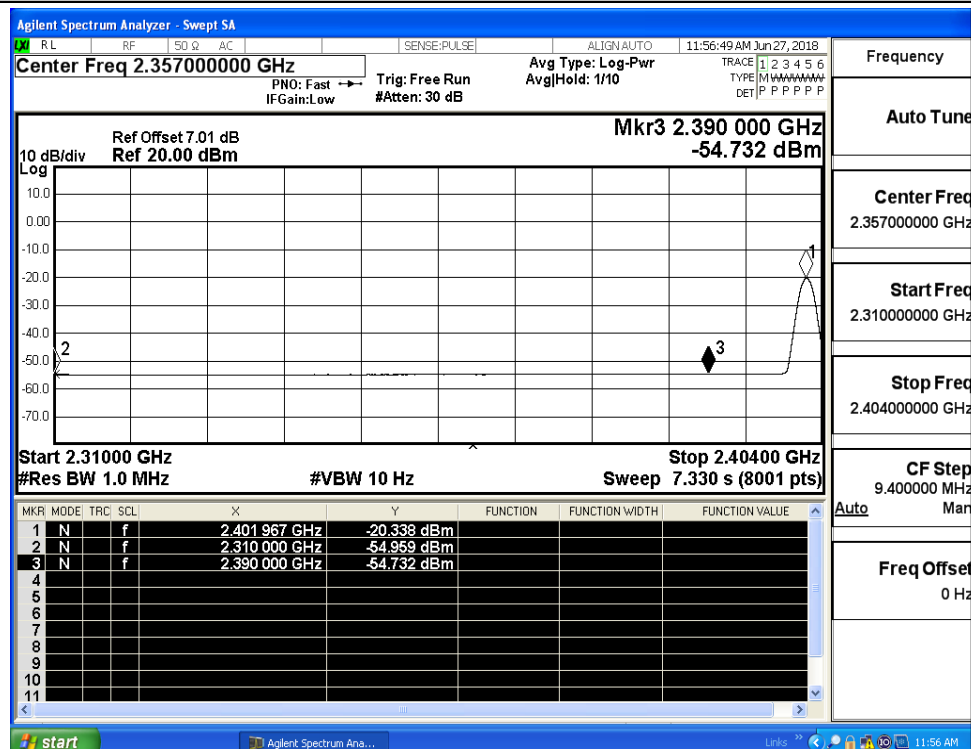
A.7 Restrict-band band-edge measurements

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	-45.33	2.0	0	51.93	PEAK	74	PASS
		Ant1	2310.0	-54.96	2.0	0	42.30	AV	54	PASS
		Ant1	2390.0	-43.58	2.0	0	53.68	PEAK	74	PASS
		Ant1	2390.0	-54.73	2.0	0	42.53	AV	54	PASS
	2480	Ant1	2483.5	-42.77	2.0	0	54.49	PEAK	74	PASS
		Ant1	2483.5	-54.43	2.0	0	42.82	AV	54	PASS
		Ant1	2500.0	-44.08	2.0	0	53.17	PEAK	74	PASS
		Ant1	2500.0	-54.33	2.0	0	42.92	AV	54	PASS

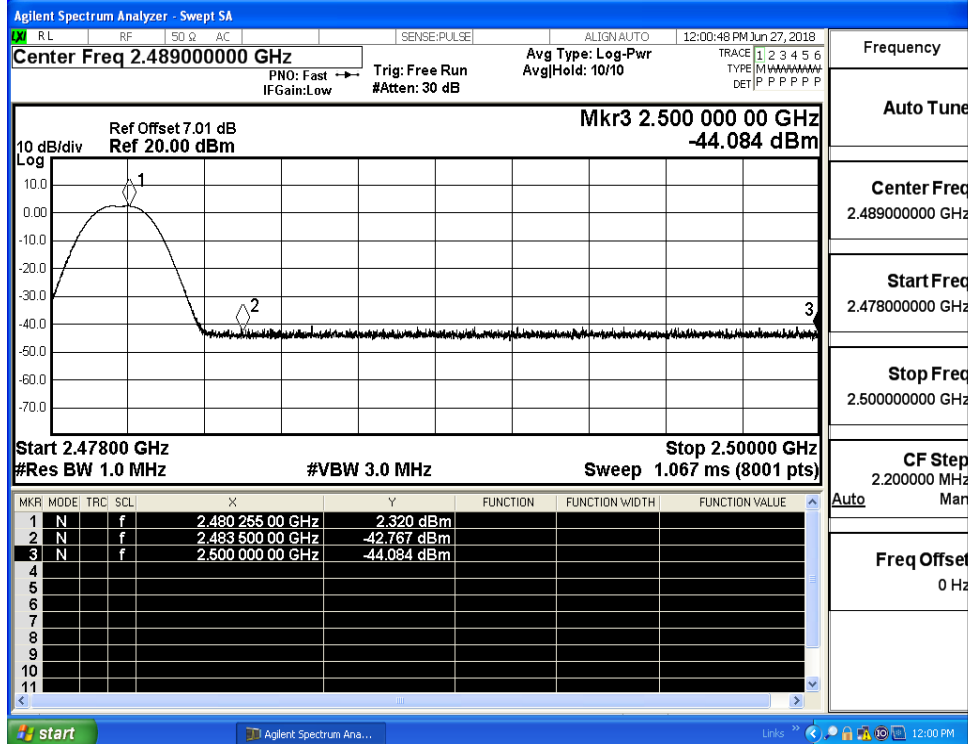
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

