

Appendix B

RF Test Data for BT V4.2 (BLE) (Conducted Measurement)

Product Name: WXD2CPLR



Trade Mark:

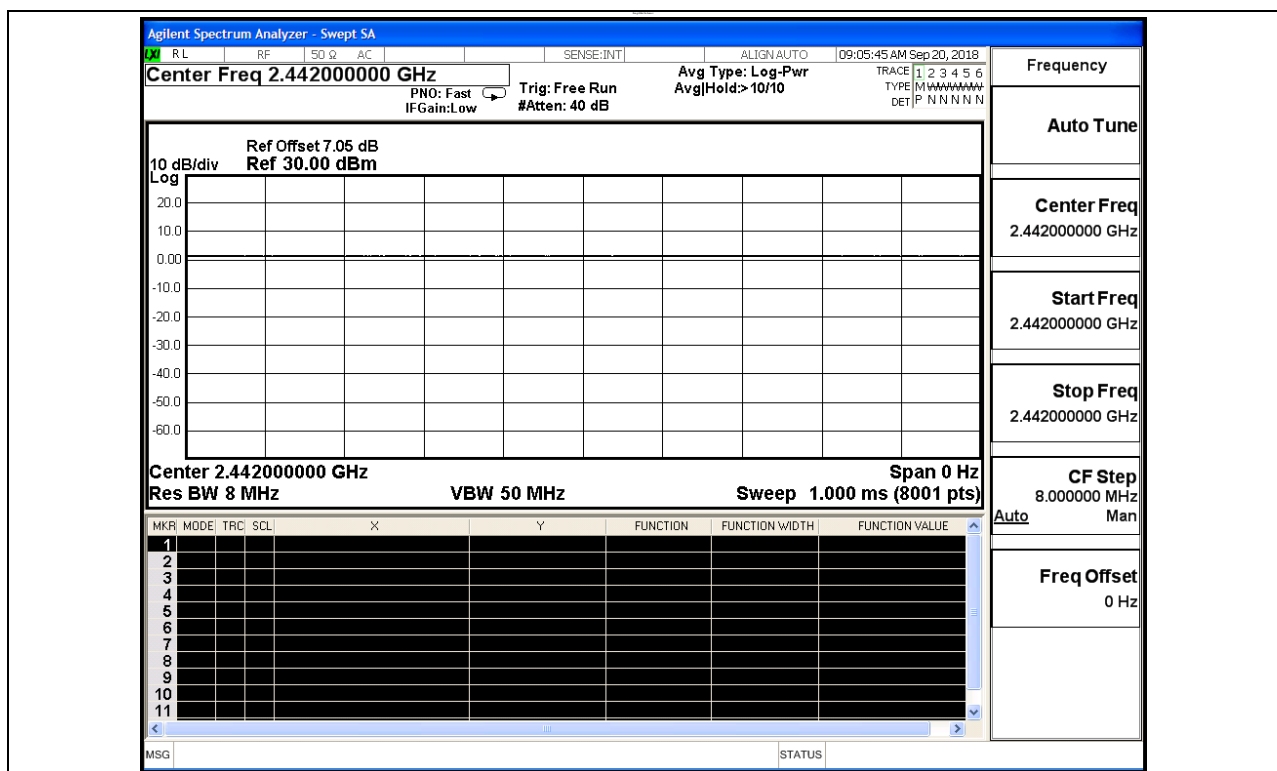
Test Model: Wireless Controlled PIR/LDR Sensor with 0-10V Dual Channel Dimming

Environmental Conditions

Temperature:	23.3° C
Relative Humidity:	51.3%
ATM Pressure:	100.0 kPa
Test Engineer:	WangChuang
Supervised by:	Jayden.Zhuo

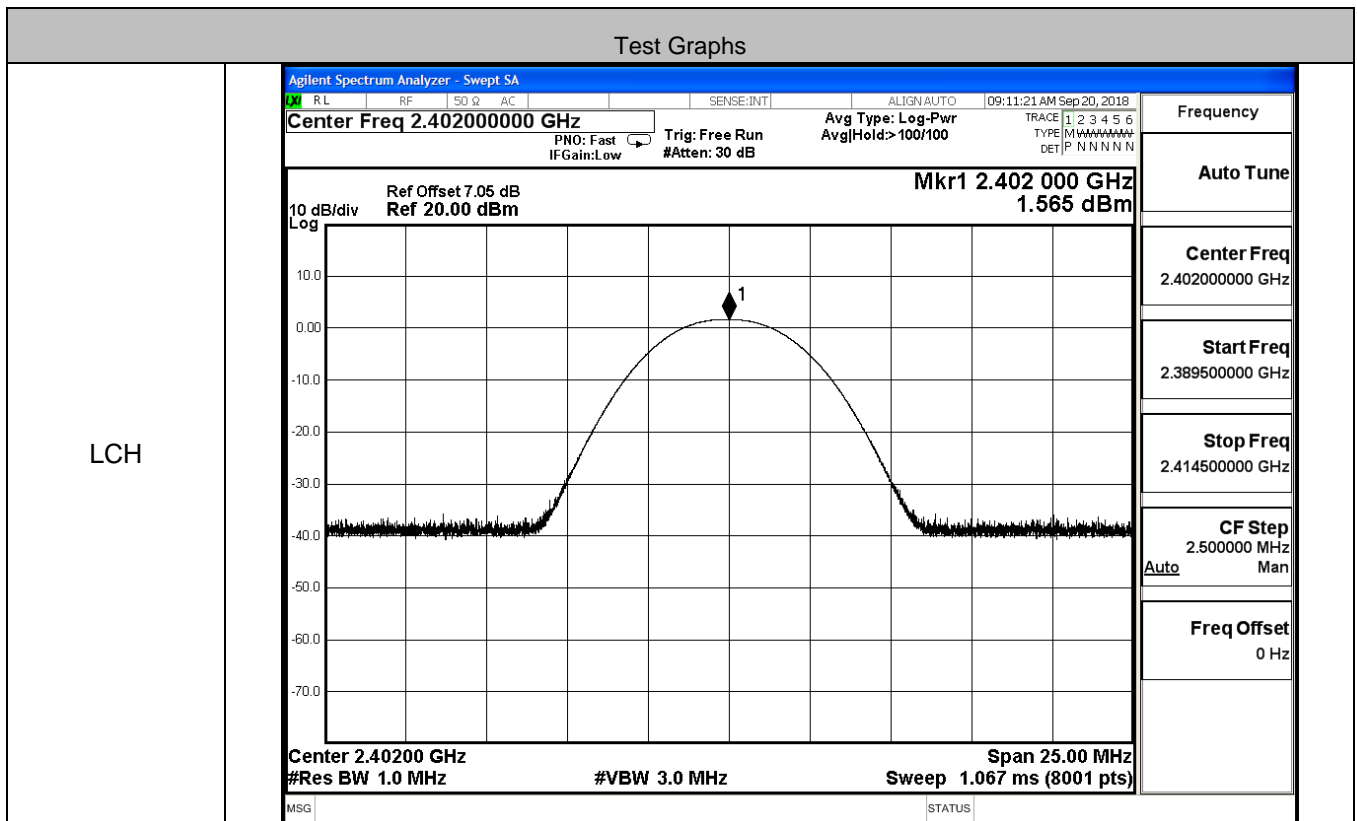
A.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2442	Ant1	100	PASS

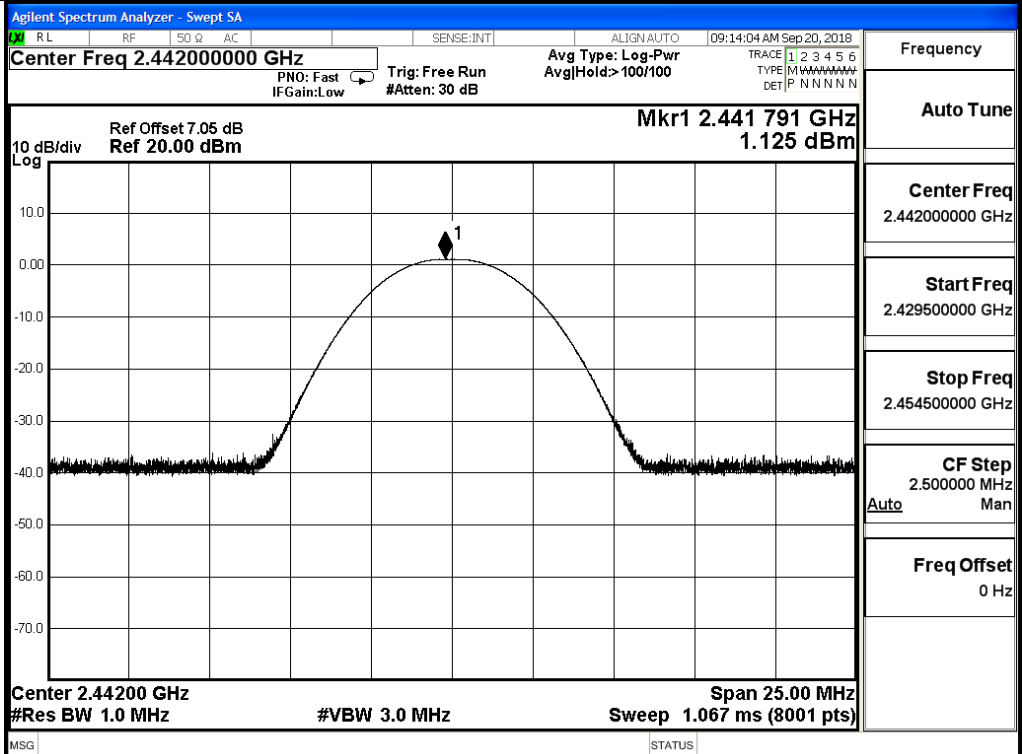


A.2 Maximum Conducted Peak Output Power

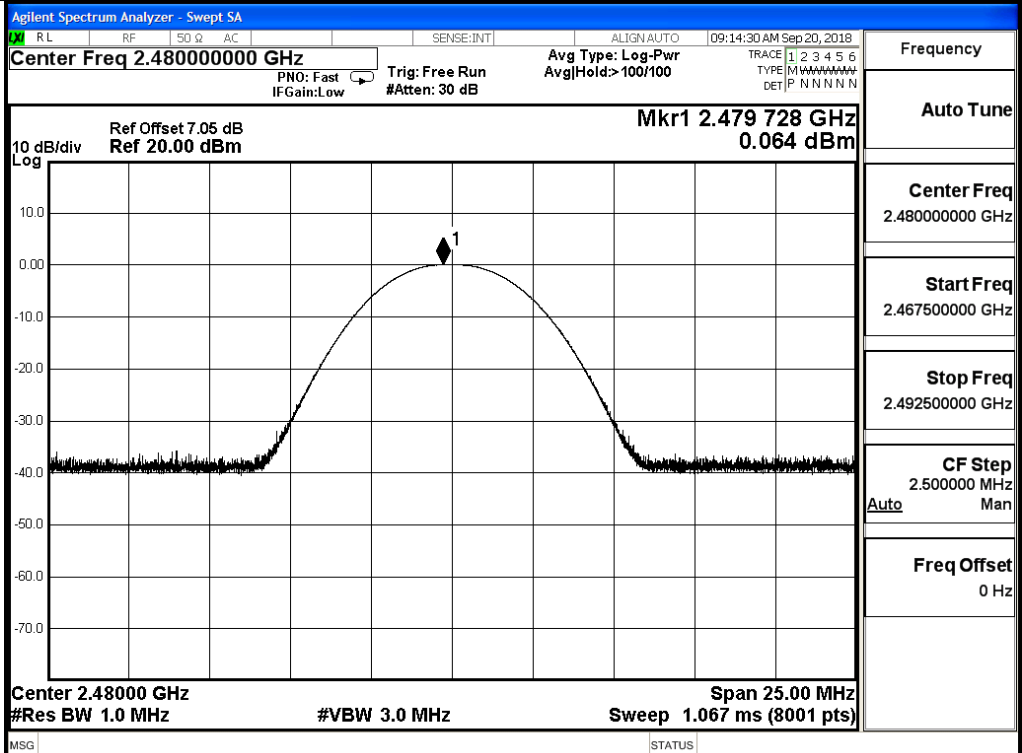
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.565	30	PASS
BT LE	MCH	1.125	30	PASS
BT LE	HCH	0.064	30	PASS



MCH



HCH

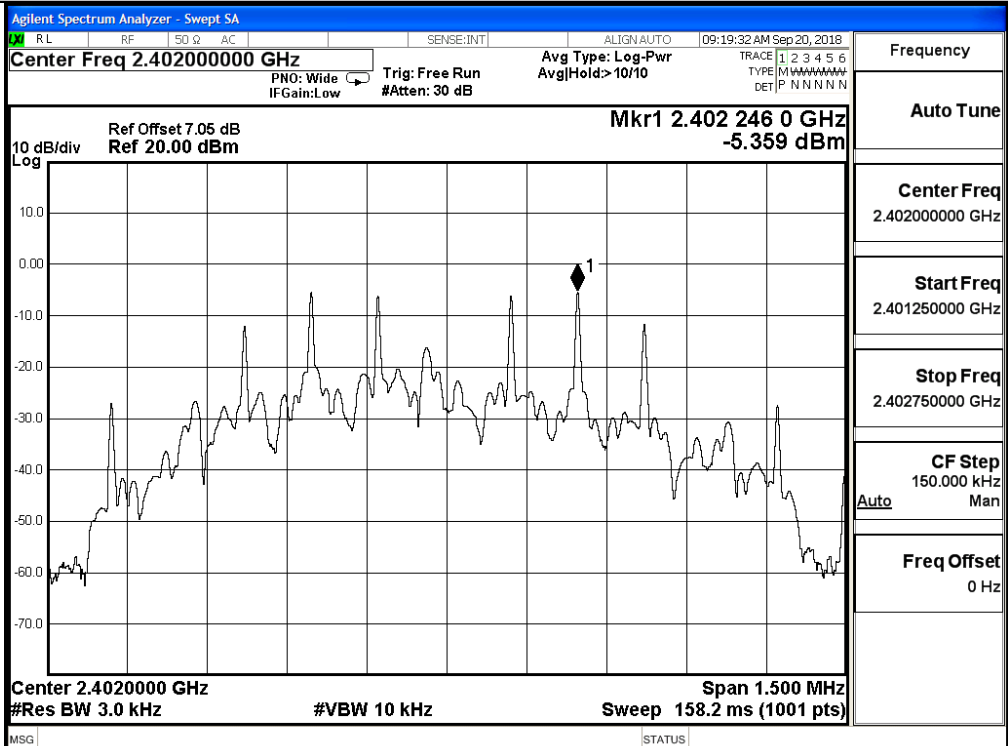


A.3 Maximum Power Spectral Density

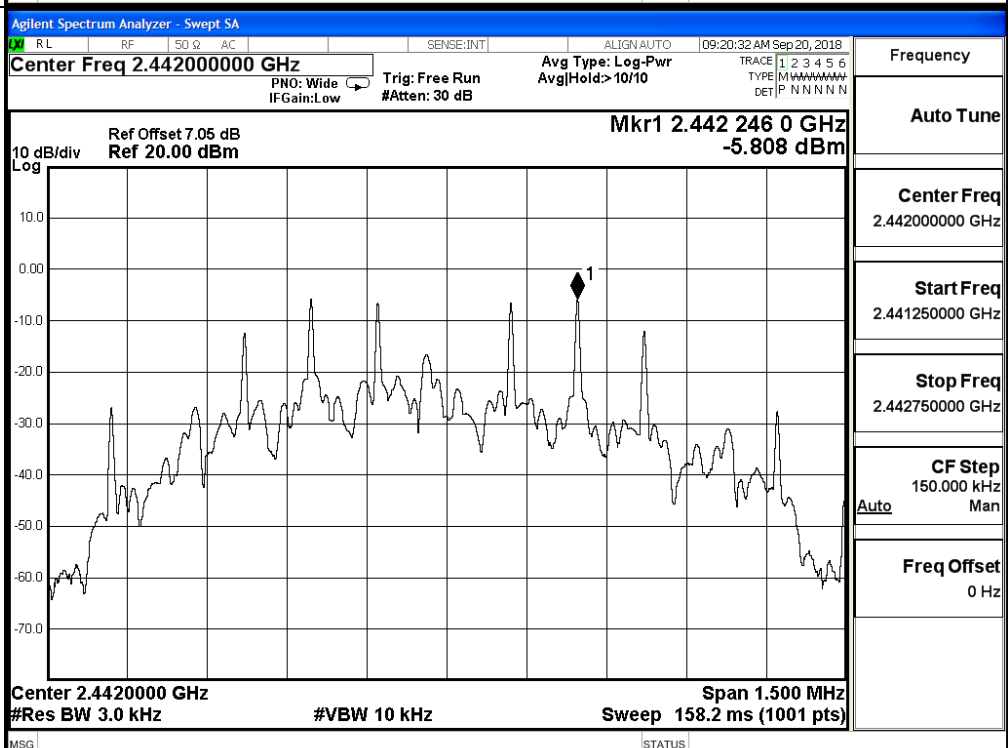
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-5.359	8	PASS
BT LE	MCH	-5.808	8	PASS
BT LE	HCH	-6.939	8	PASS

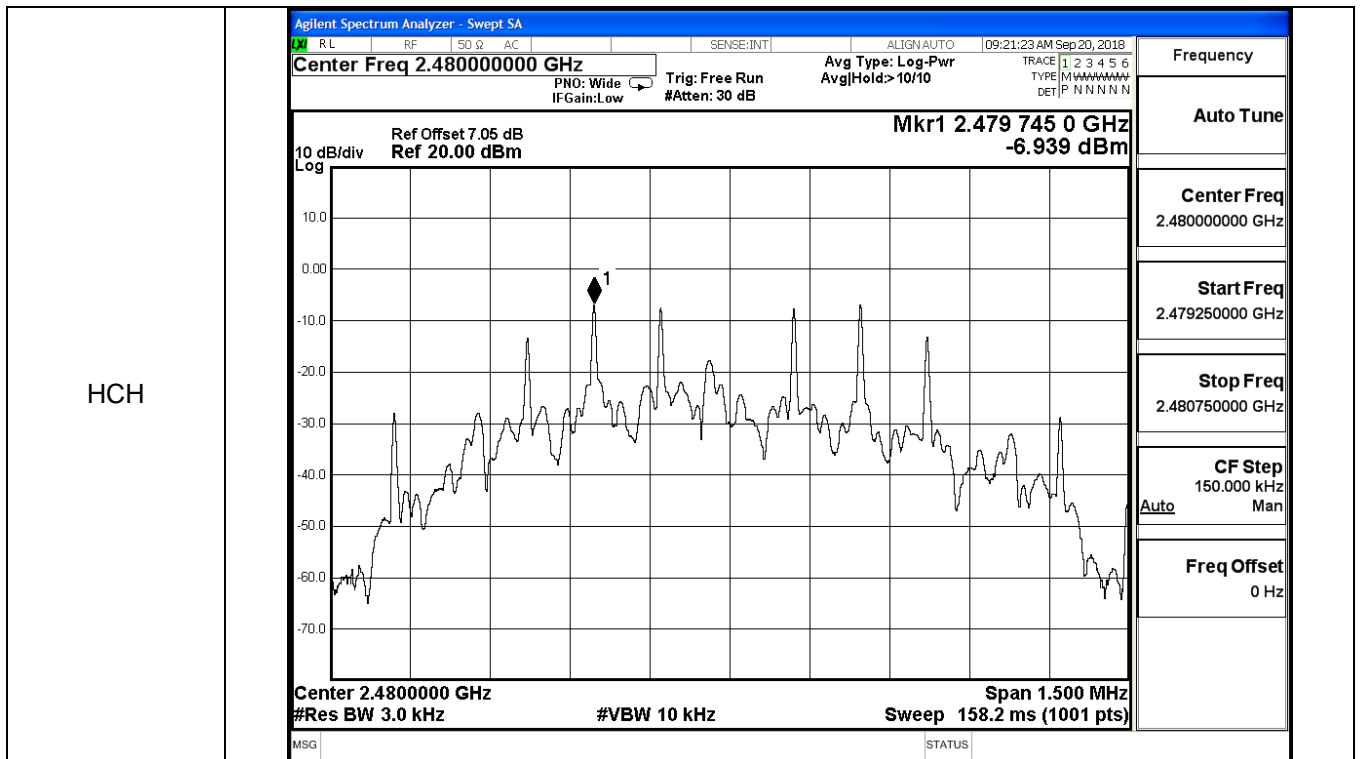
Test Graphs

LCH



MCH



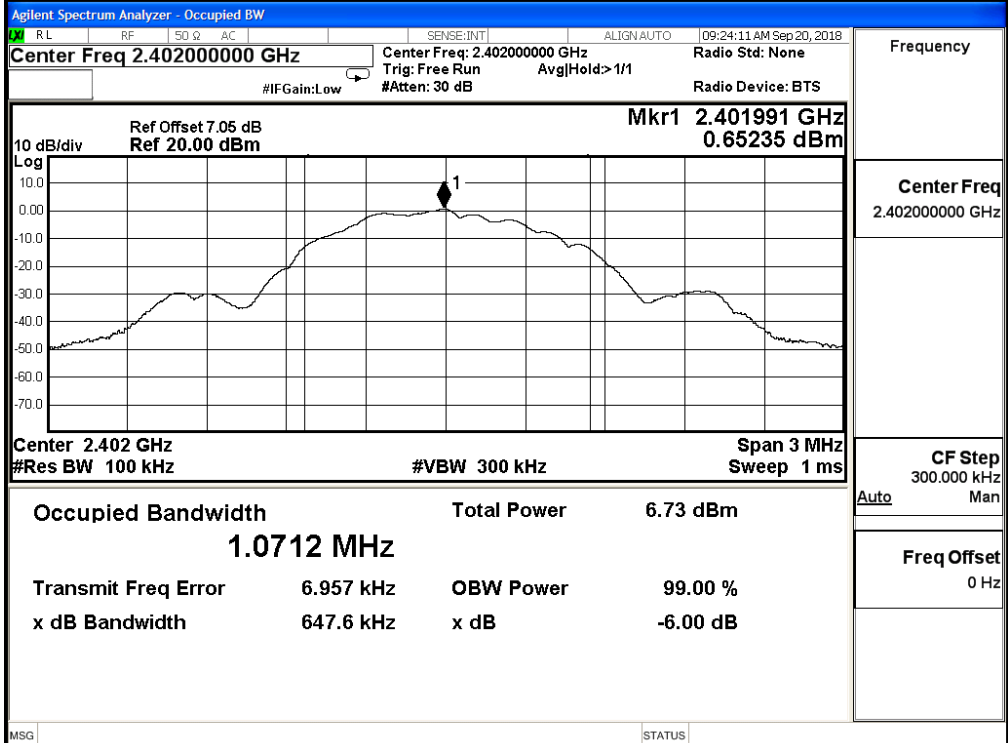


A.4 6dB Bandwidth

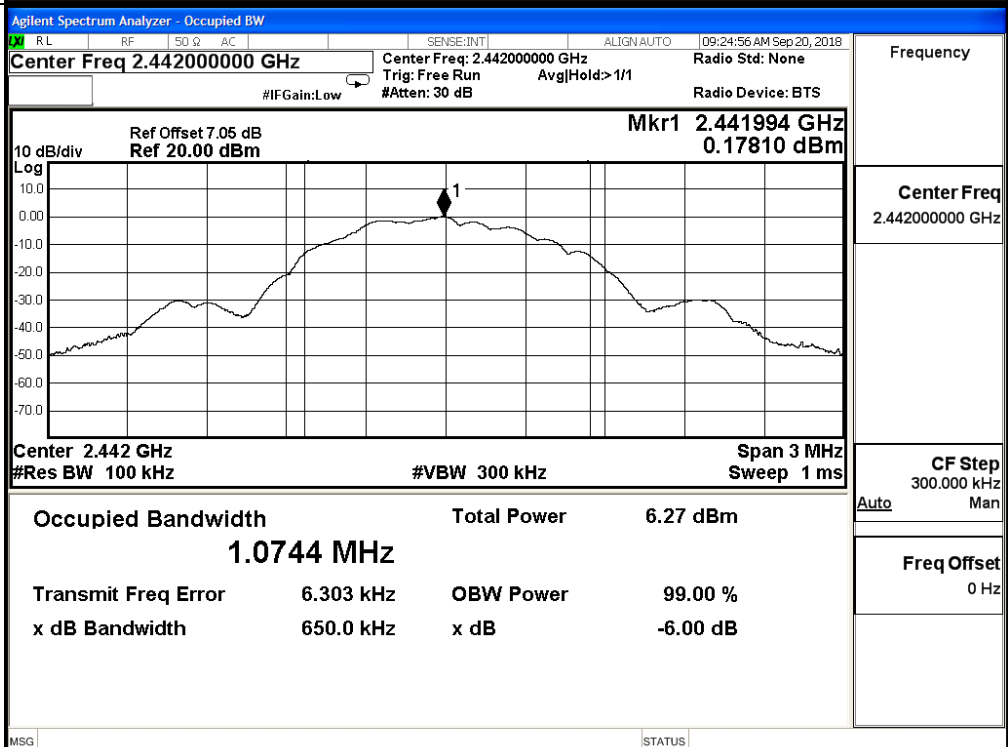
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6476	≥0.5	PASS
BT LE	MCH	0.6500	≥0.5	PASS
BT LE	HCH	0.6529	≥0.5	PASS

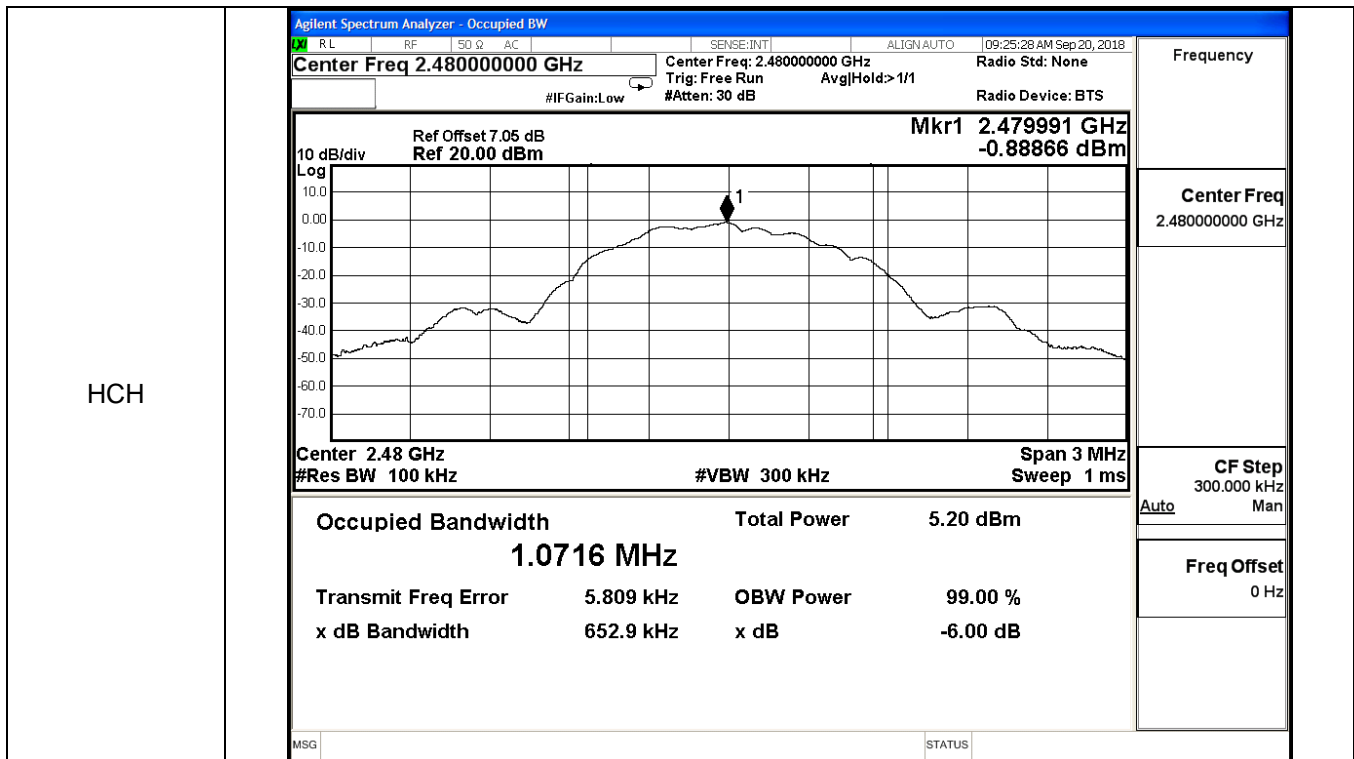
Test Graphs

LCH



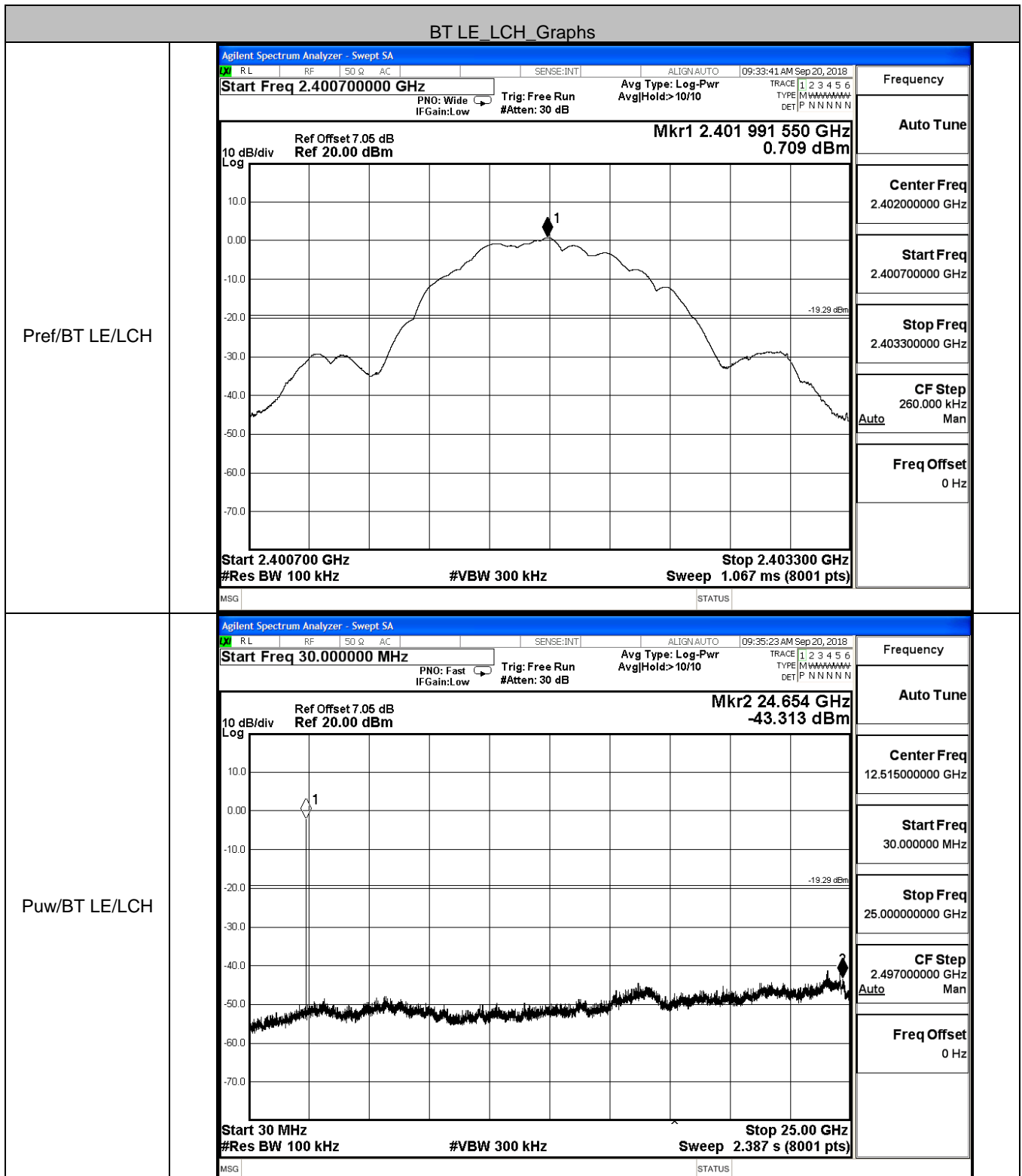
MCH





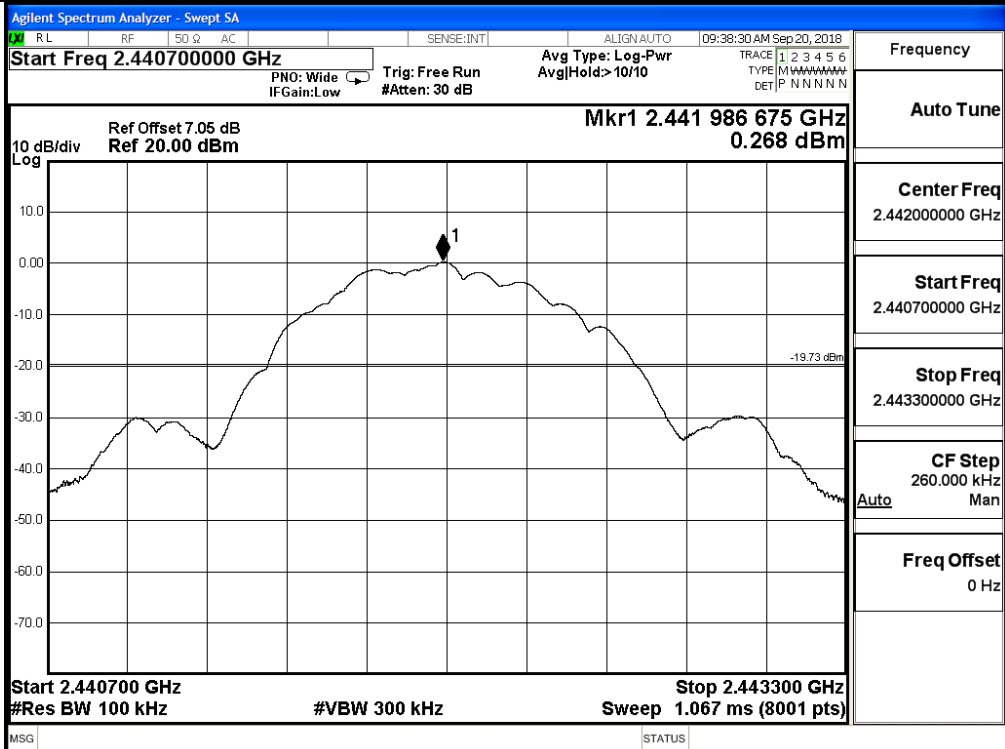
A.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.709	-43.313	-19.29	PASS
BT LE	MCH	0.268	-42.580	-19.73	PASS
BT LE	HCH	-0.826	-44.317	-20.83	PASS

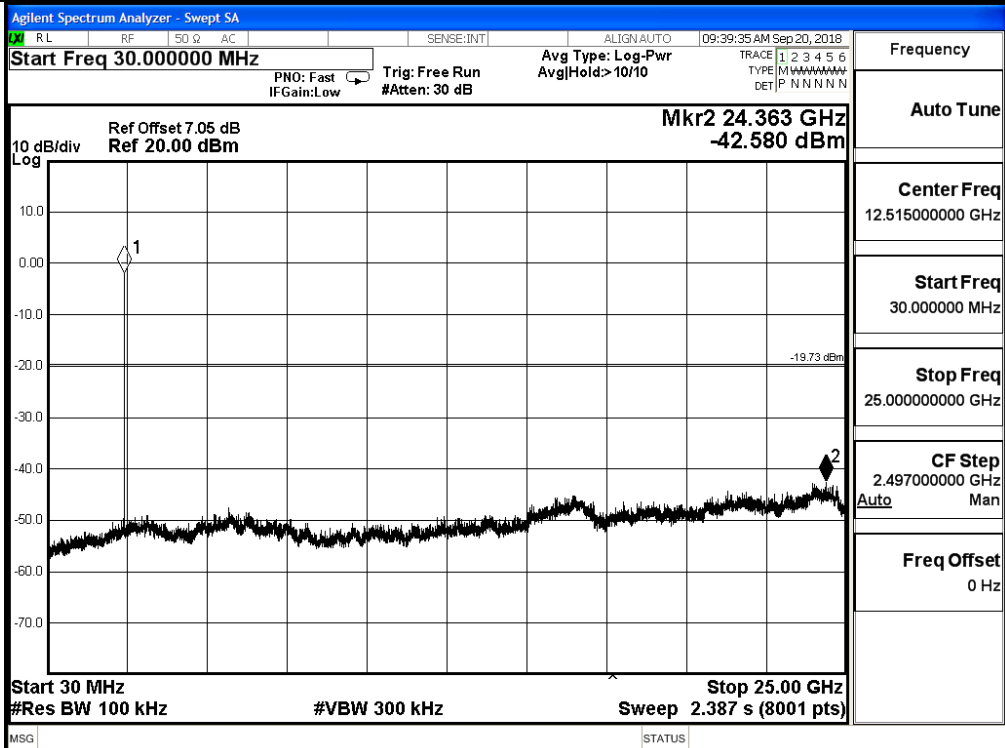


BT LE_MCH_Graphs

Pref/BT LE/MCH

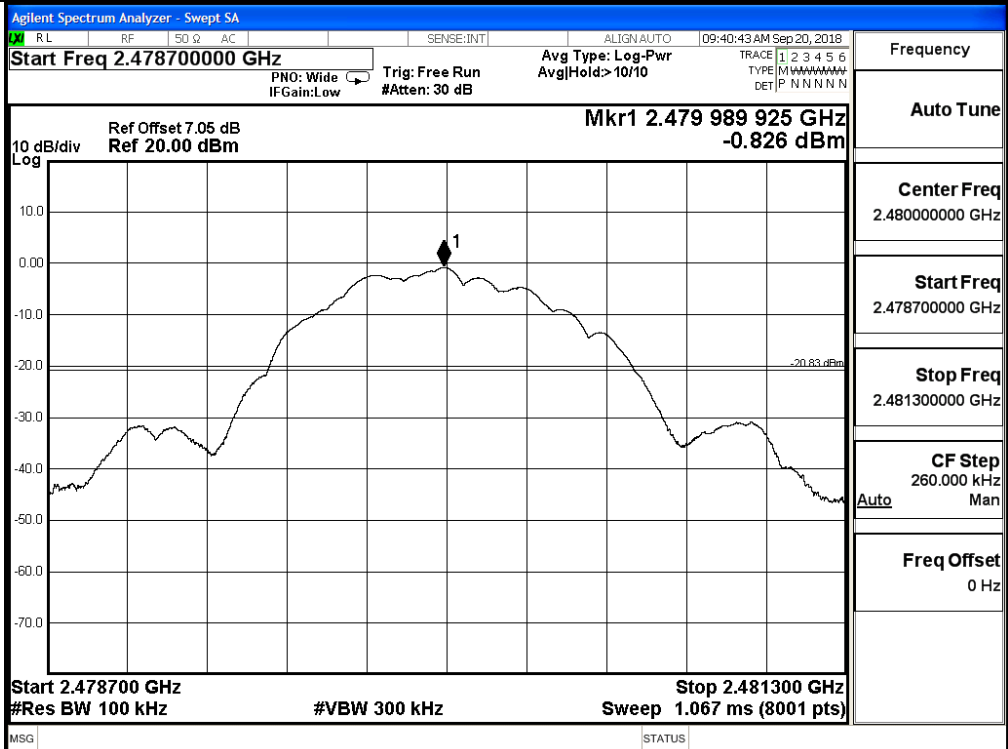


Puw/BT LE/MCH

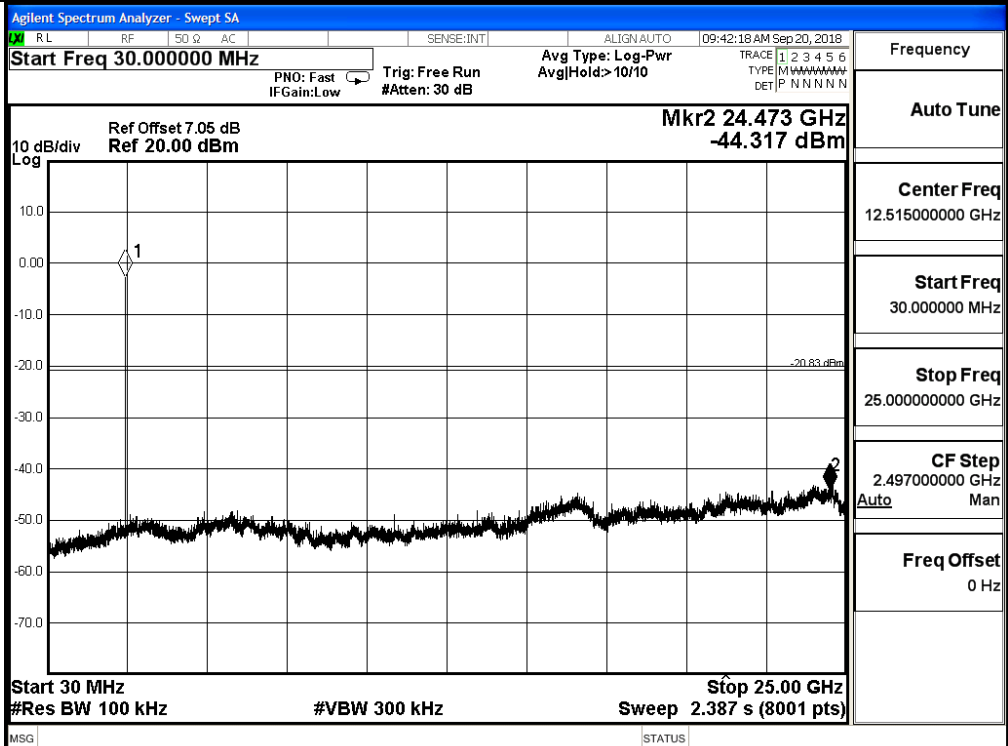


BT LE_HCH_Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

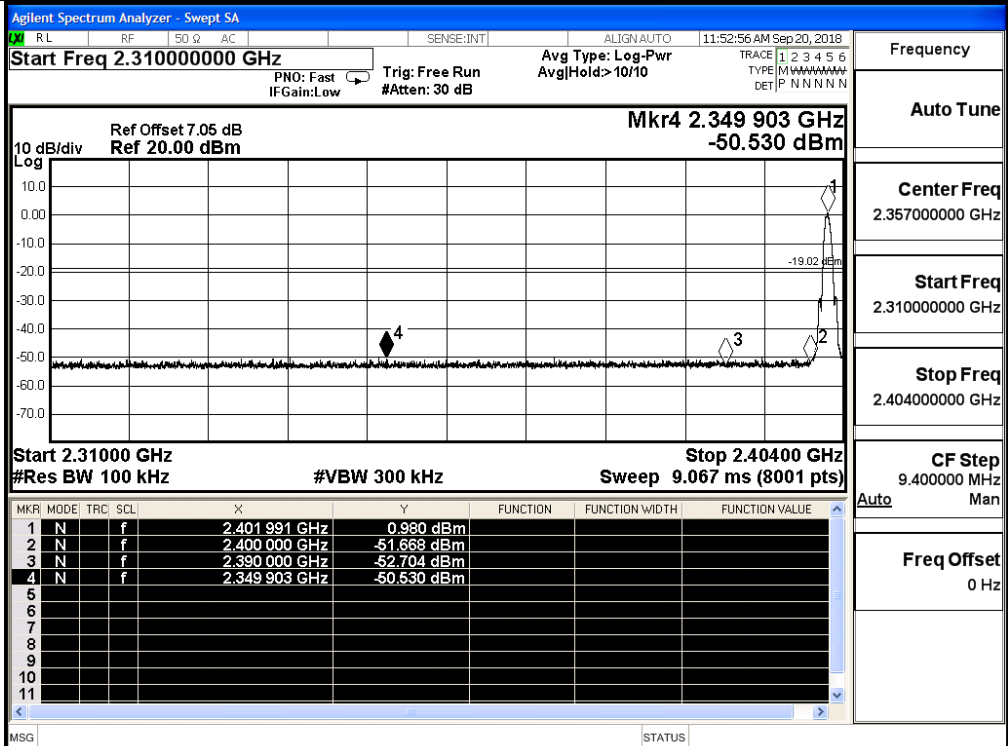


A.6 Band-edge for RF Conducted Emissions

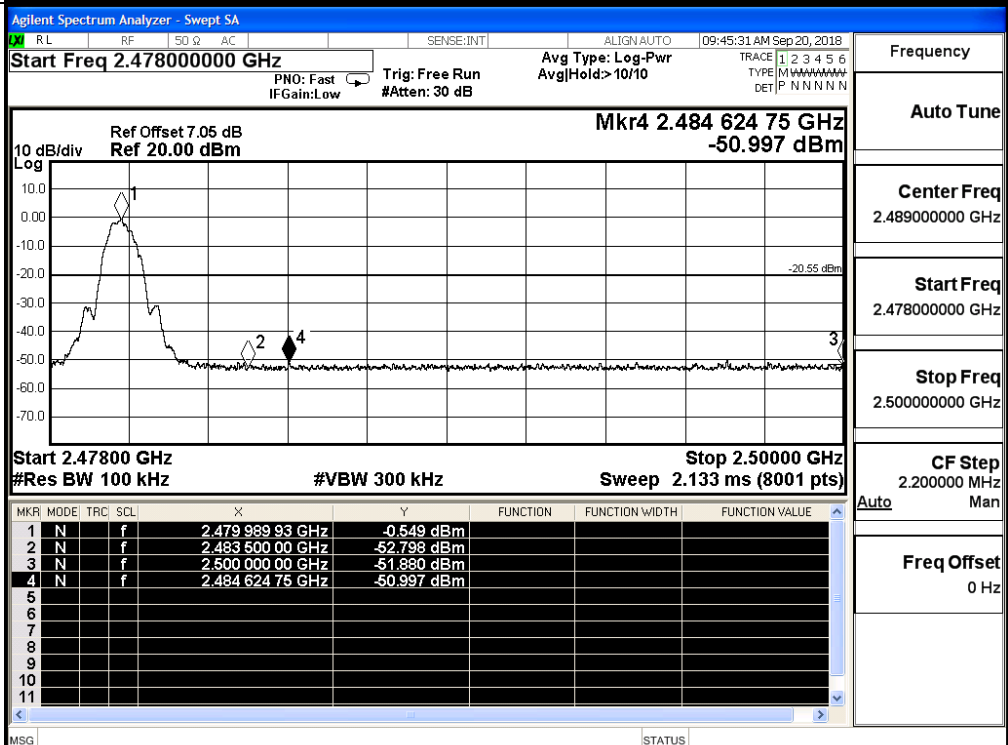
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.980	-50.530	-19.02	PASS
BT LE	HCH	-0.549	-50.997	-20.55	PASS

Test Graphs

LCH



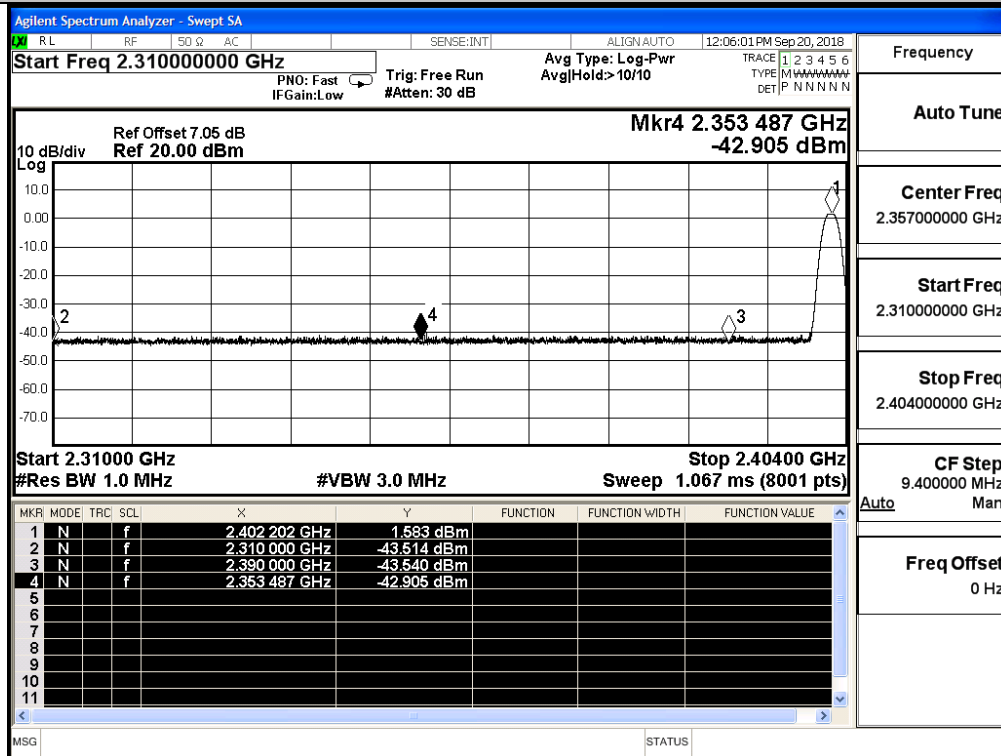
HCH



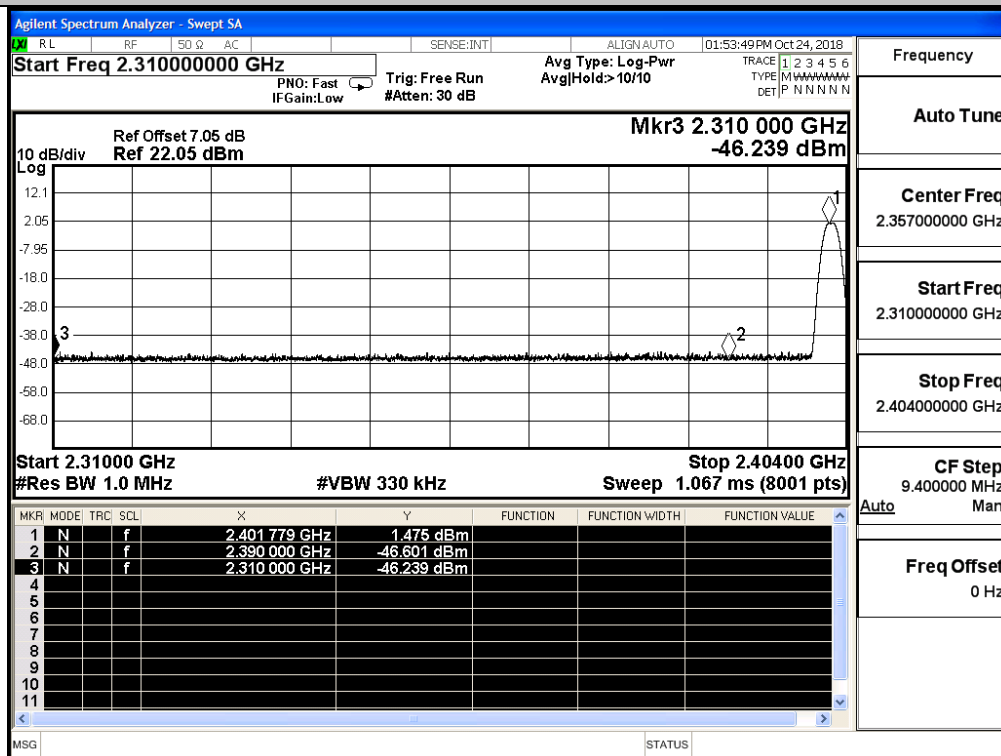
A.7 Restrict-band band-edge measurements

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	-43.514	2	0	53.75	PEAK	74	PASS
		Ant1	2310.0	-46.239	2	0	51.02	AV	54	PASS
		Ant1	2390.0	-43.540	2	0	53.72	PEAK	74	PASS
		Ant1	2390.0	-46.601	2	0	50.66	AV	54	PASS
	2480	Ant1	2483.5	-42.394	2	0	54.87	PEAK	74	PASS
		Ant1	2483.5	-45.571	2	0	51.69	AV	54	PASS
		Ant1	2500.0	-43.069	2	0	54.19	PEAK	74	PASS
		Ant1	2500.0	-46.169	2	0	51.09	AV	54	PASS

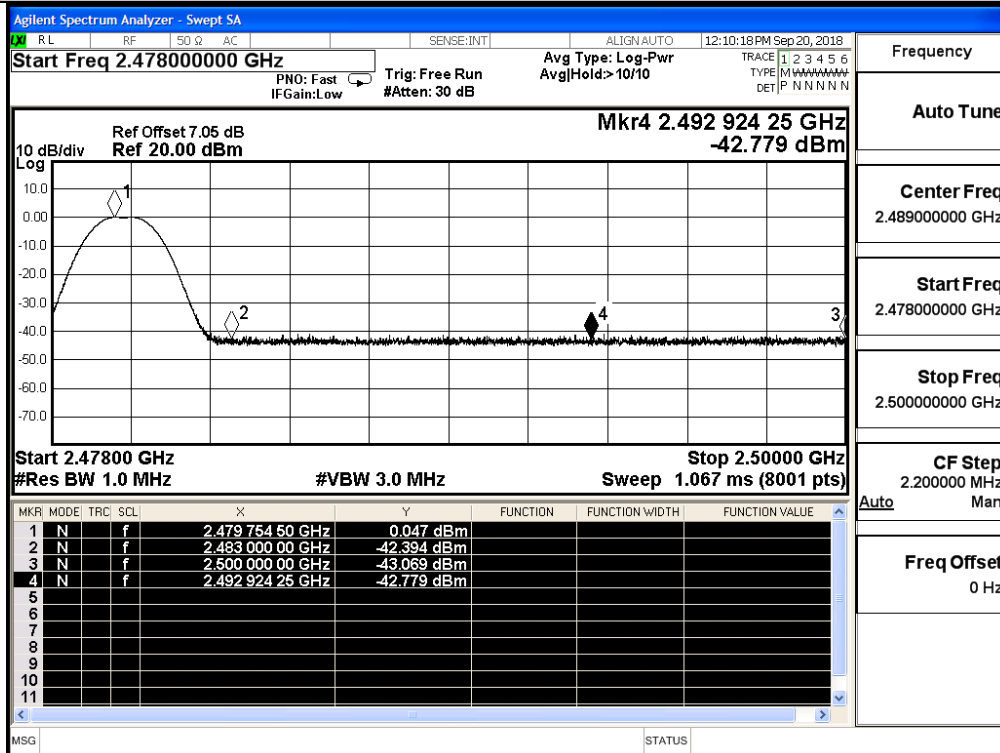
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

