

Appendix A

RF Test Data for BT 4.2(BLE) (Conducted Measurement)

Product Name: 5 Button Light Remote

Trade Mark: WiSilica

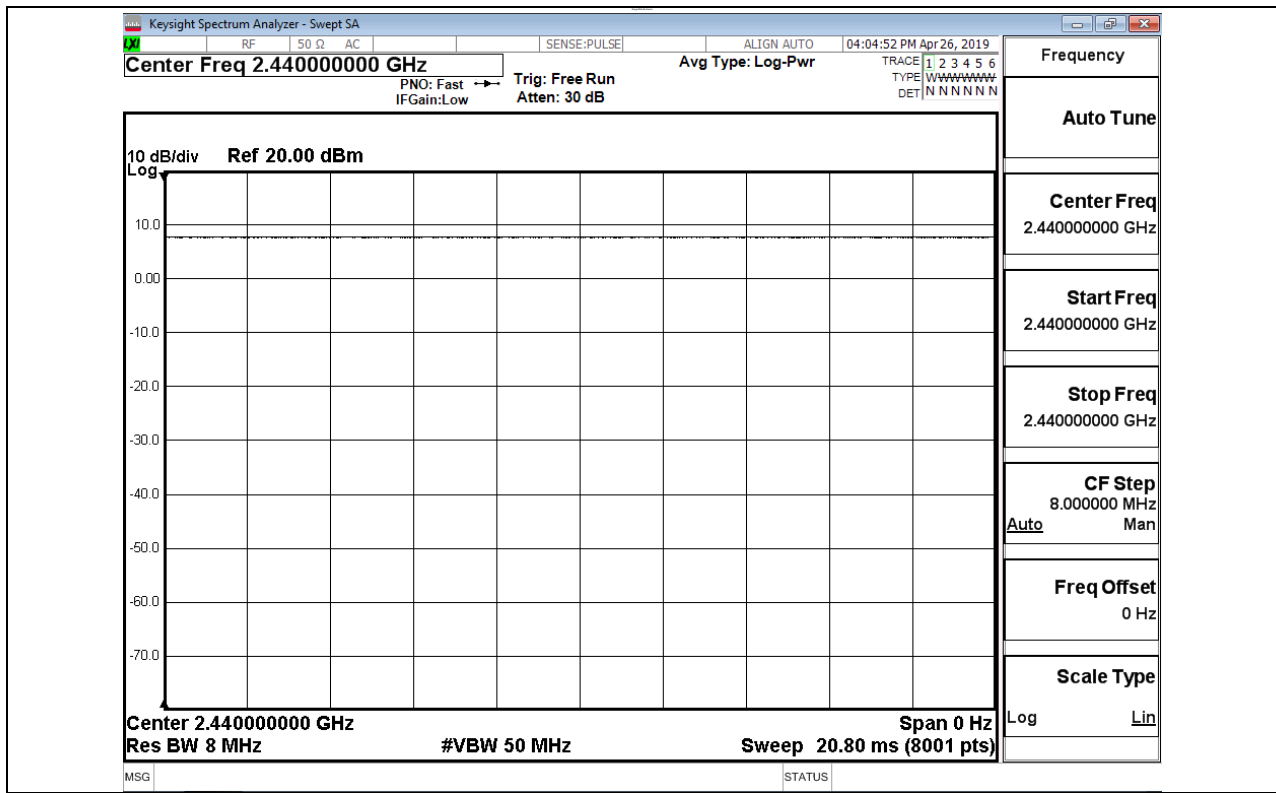
Test Model: WSB5B

Environmental Conditions

Temperature:	24.2 ° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	CHUANG WANG
Supervised by:	Jayden.Zhuo

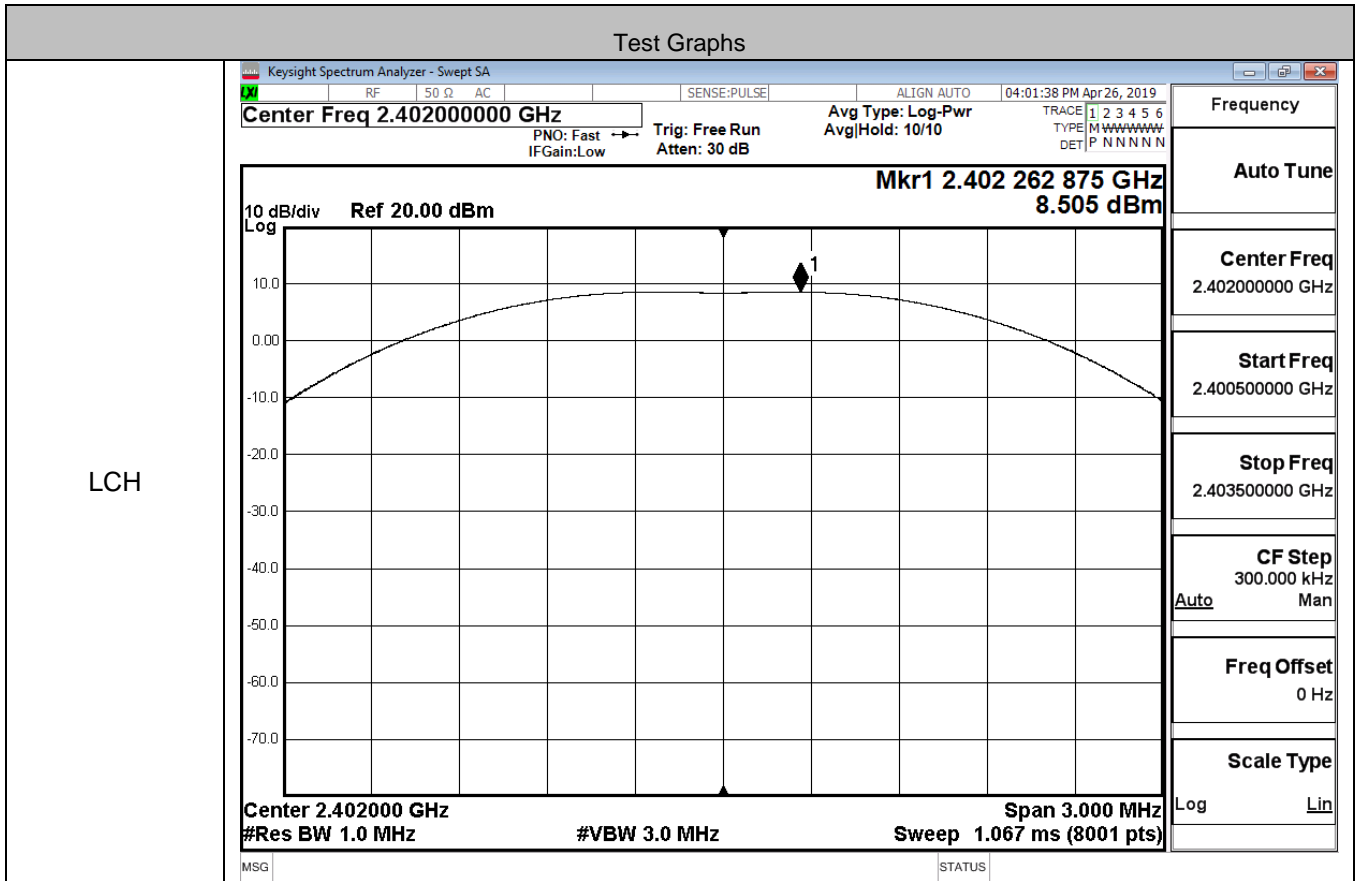
A.1 Duty Cycle

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

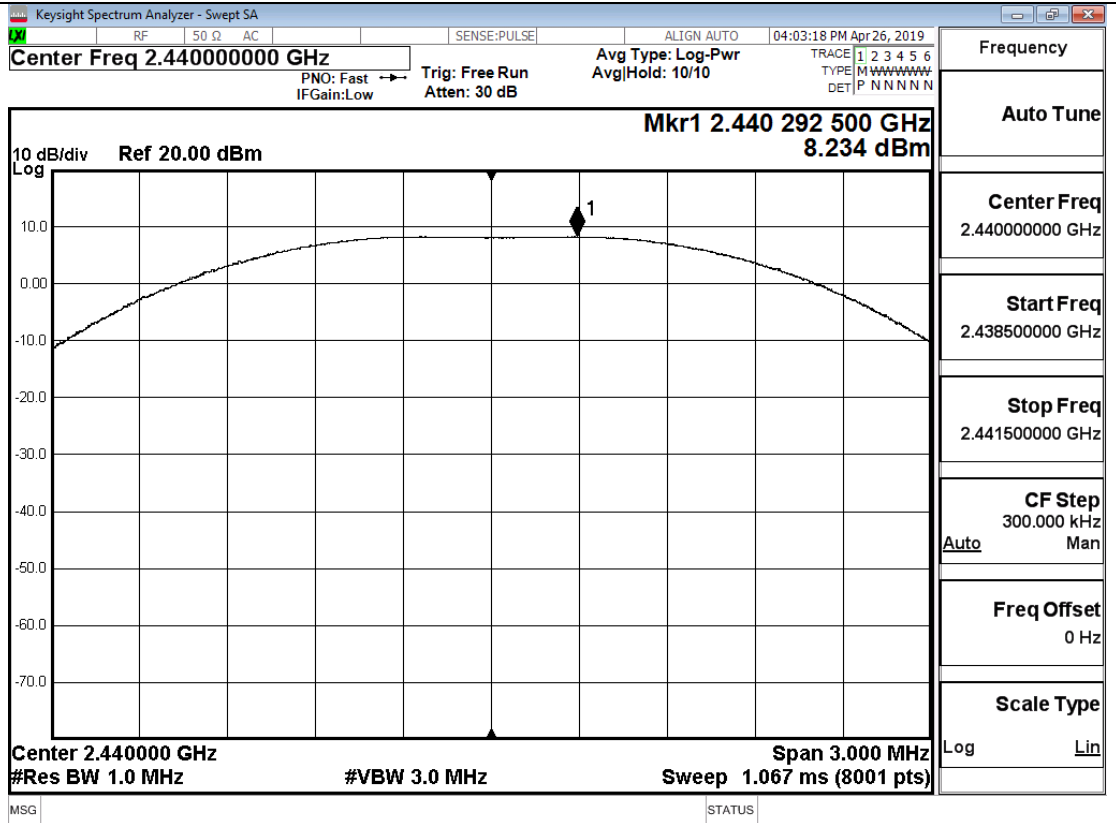


A.2 Maximum Conducted Peak Output Power

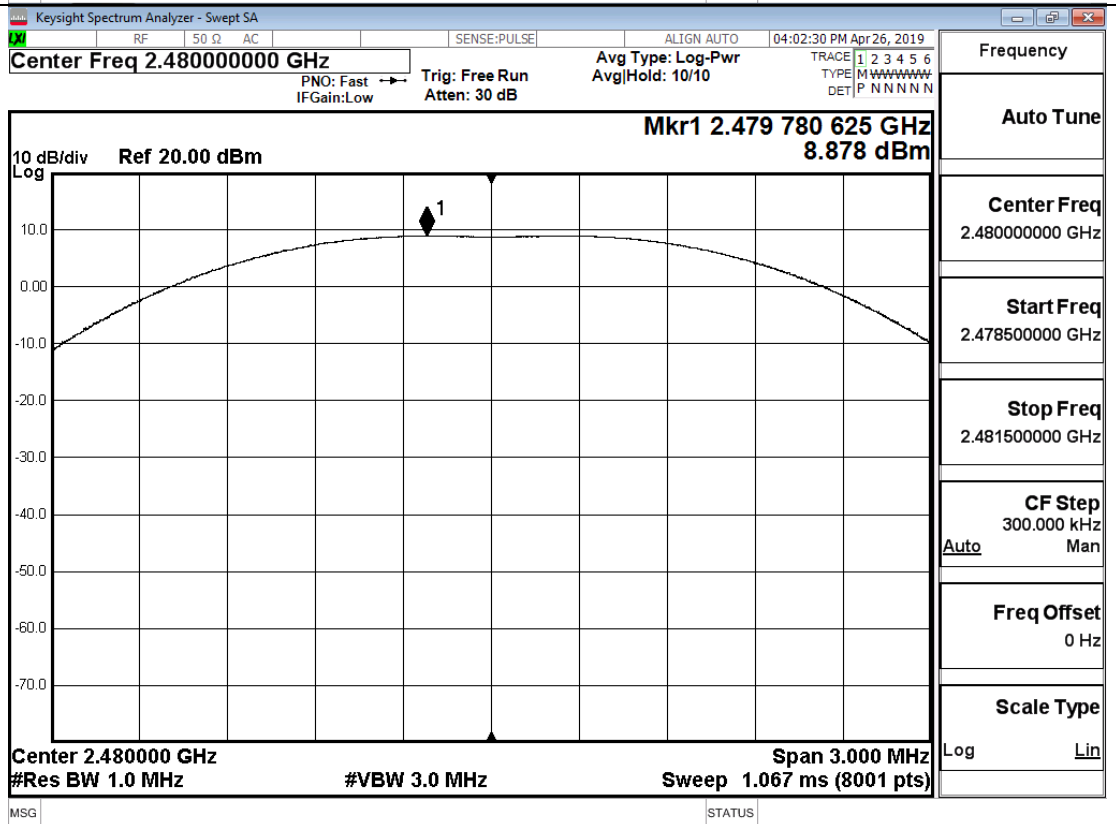
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	8.505	30	PASS
BT LE	MCH	8.234	30	PASS
BT LE	HCH	8.878	30	PASS



MCH

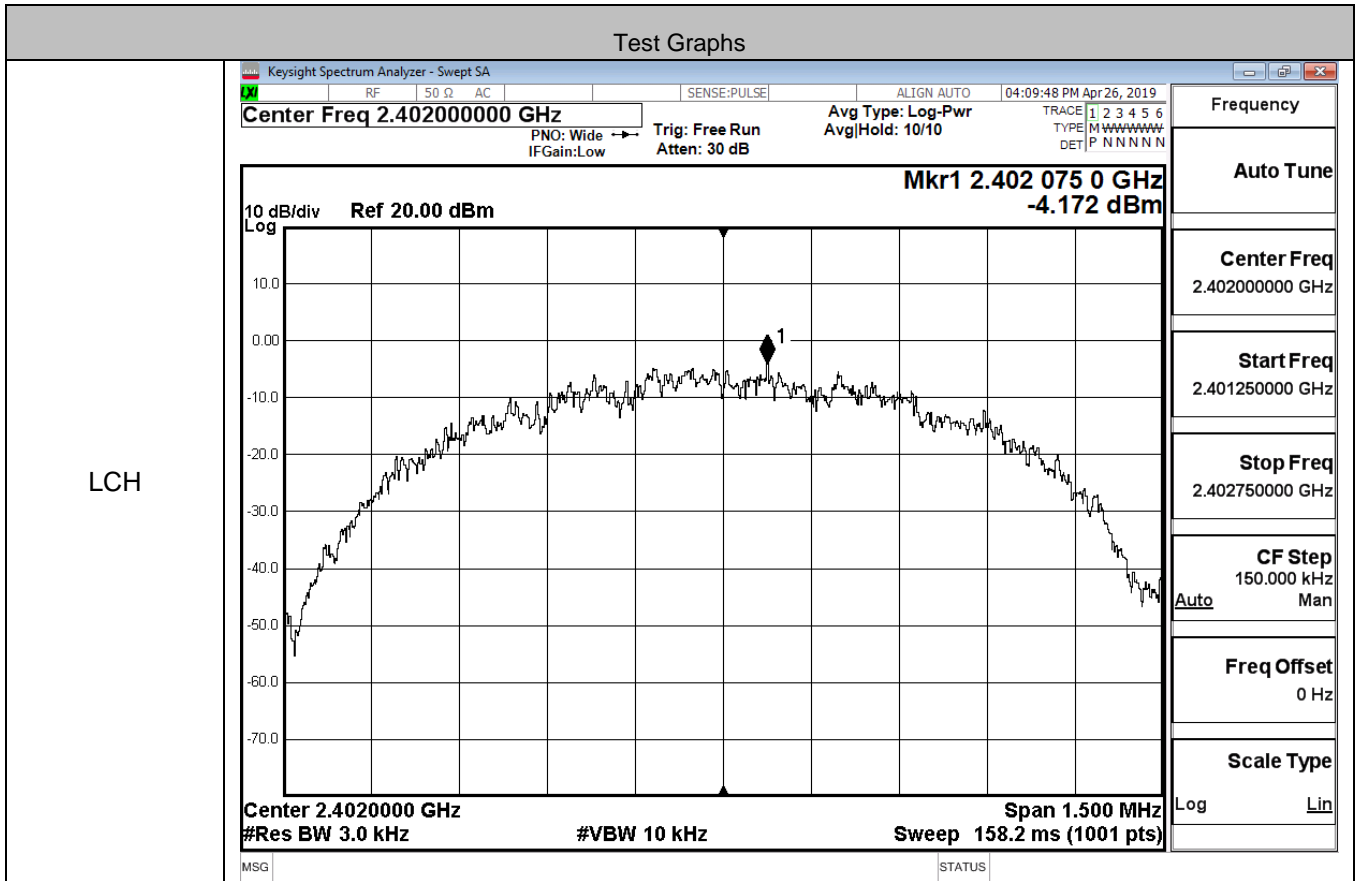


HCH

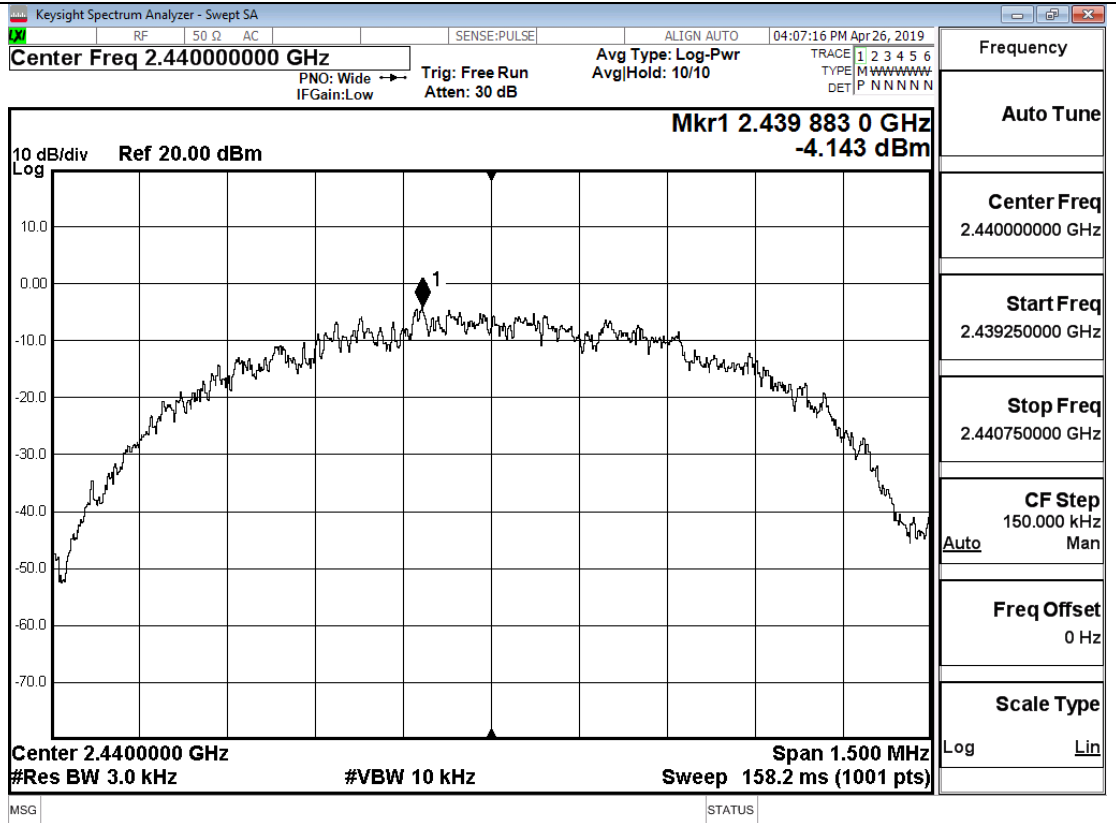


A.3 Maximum Power Spectral Density

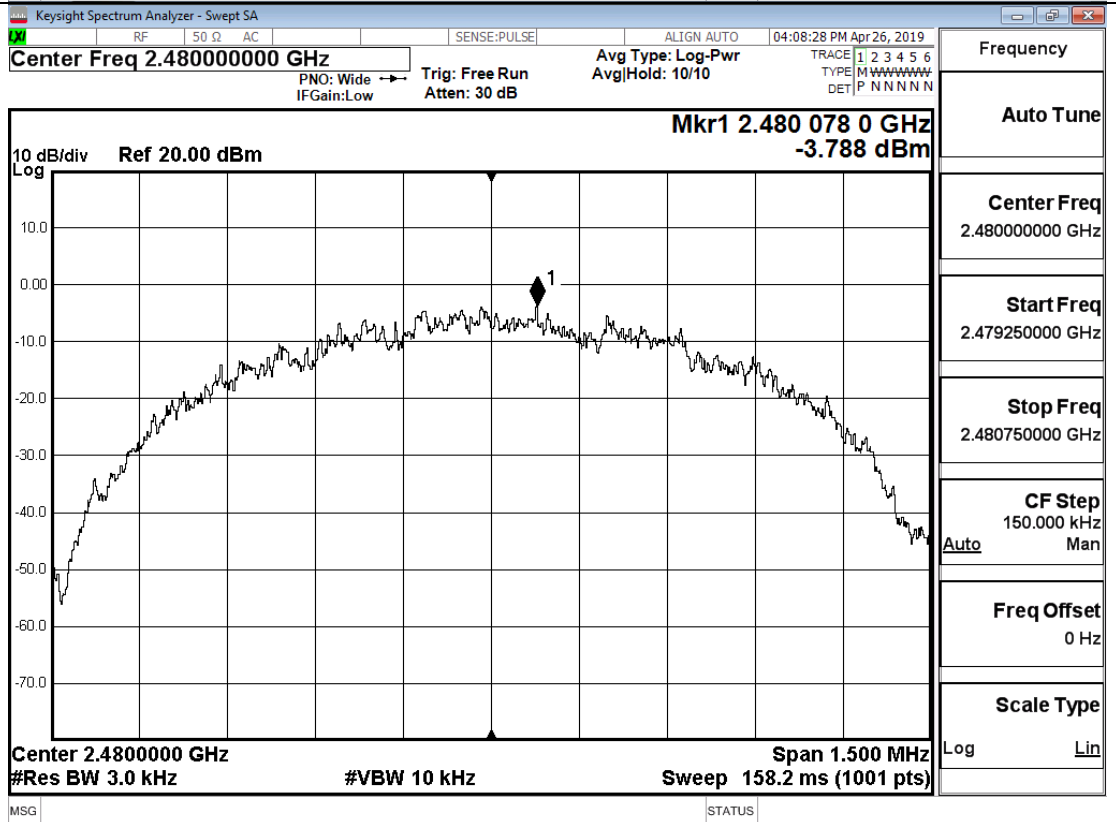
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-4.172	8	PASS
BT LE	MCH	-4.143	8	PASS
BT LE	HCH	-3.788	8	PASS



MCH

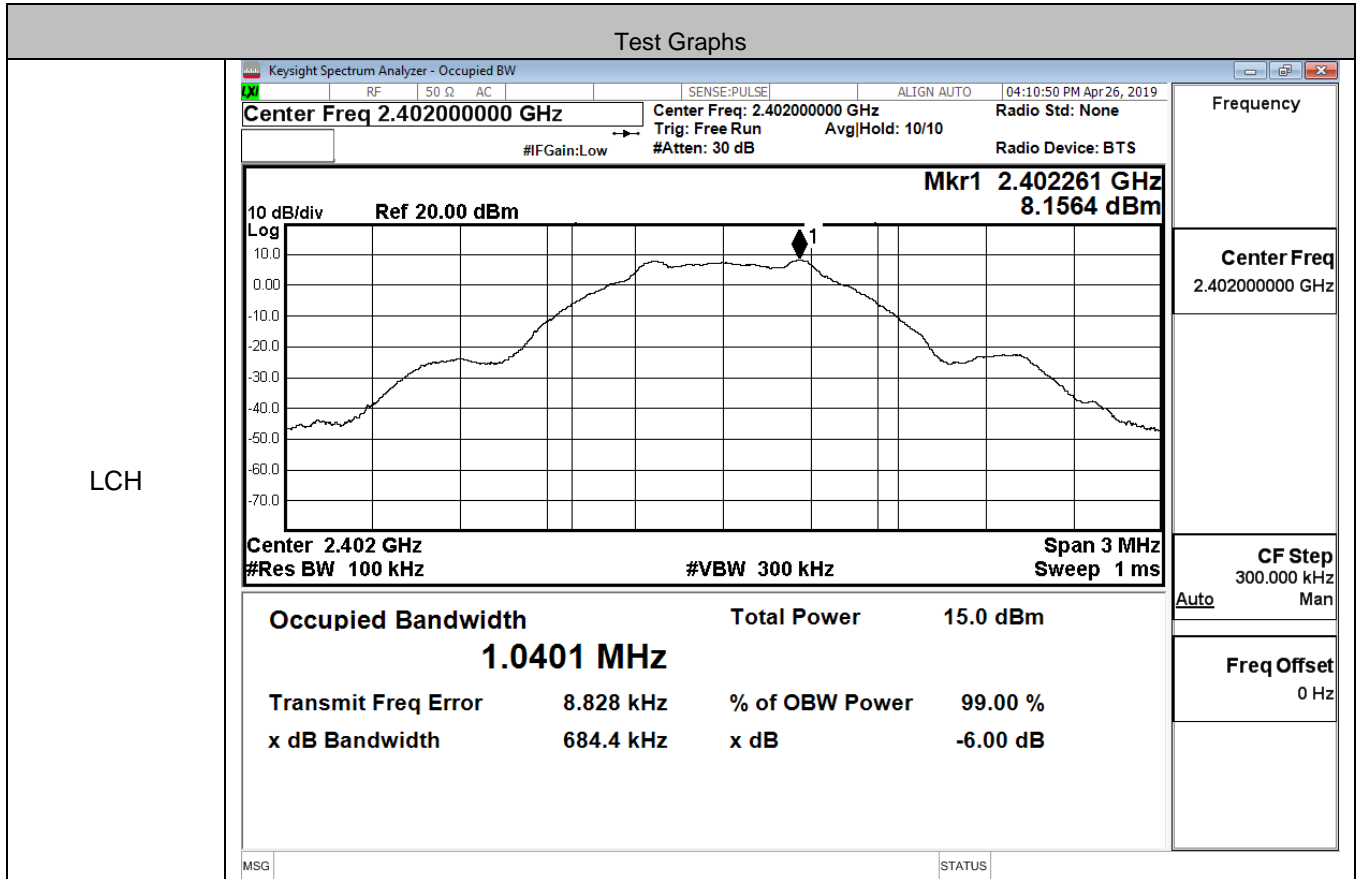


HCH

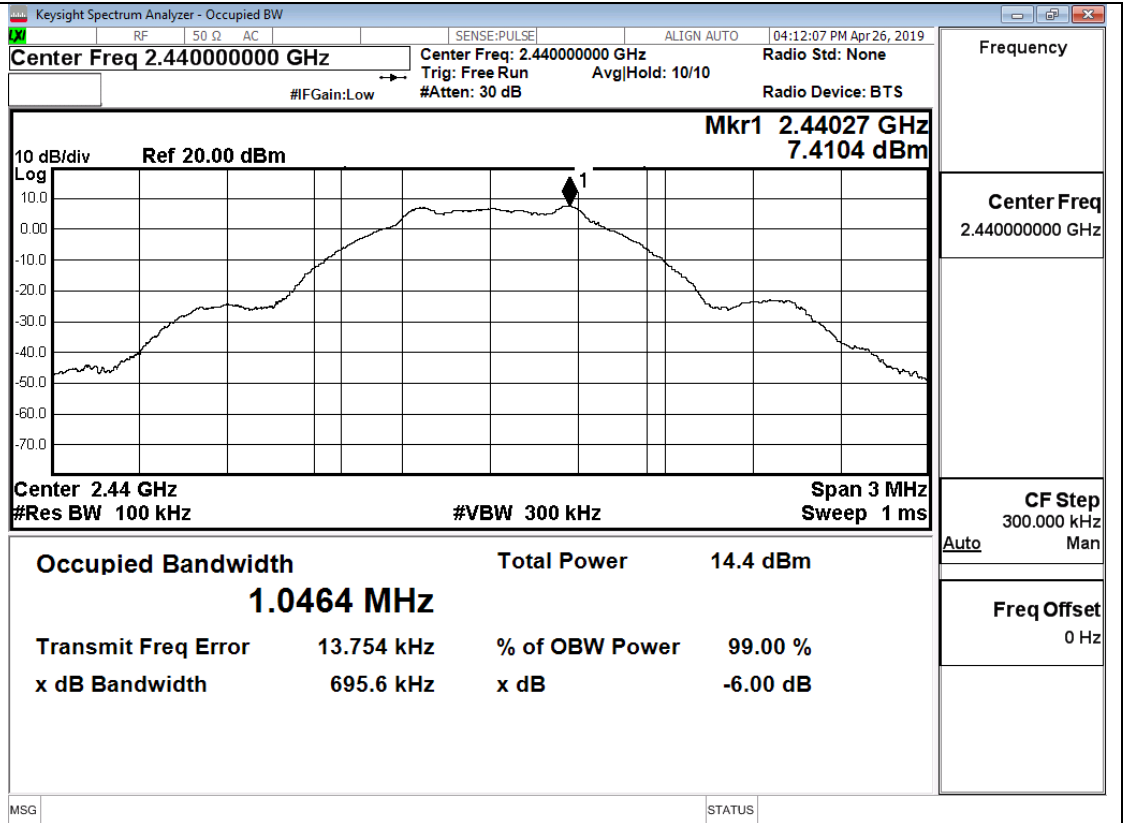


A.4 6dB Bandwidth

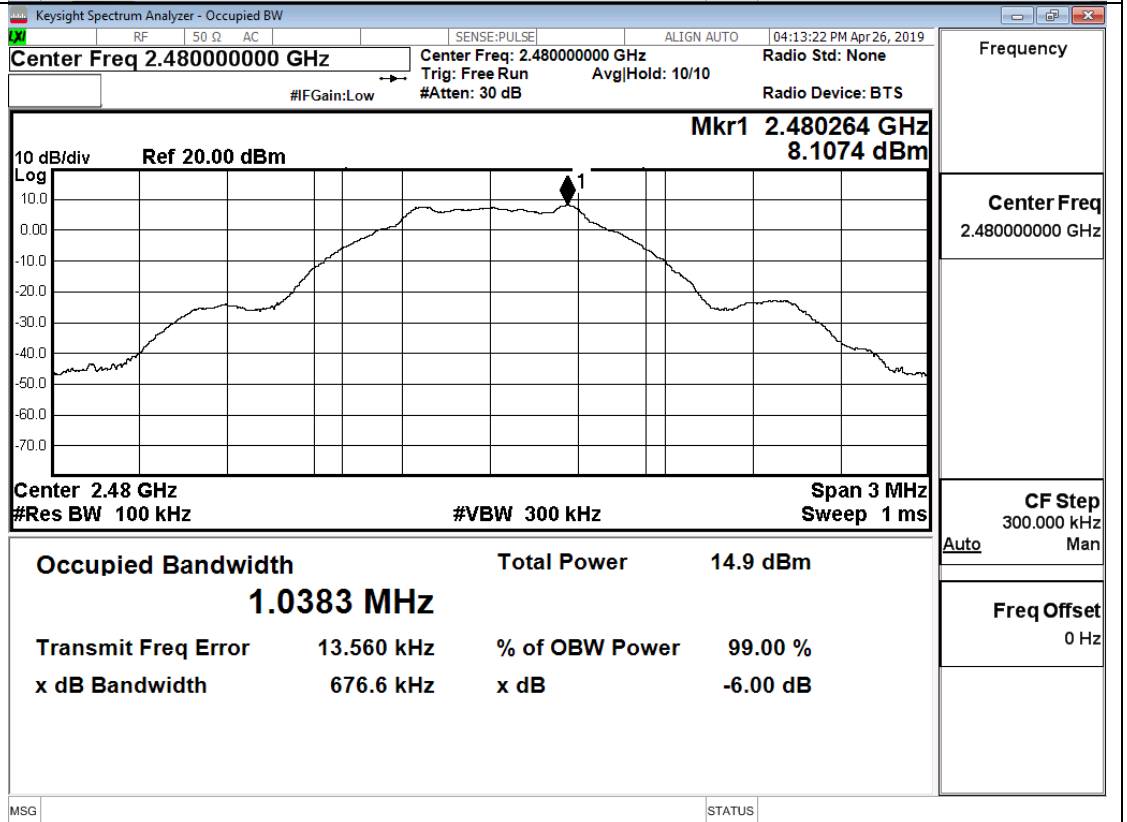
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6844	≥0.5	PASS
BT LE	MCH	0.6956	≥0.5	PASS
BT LE	HCH	0.6766	≥0.5	PASS



MCH



HCH

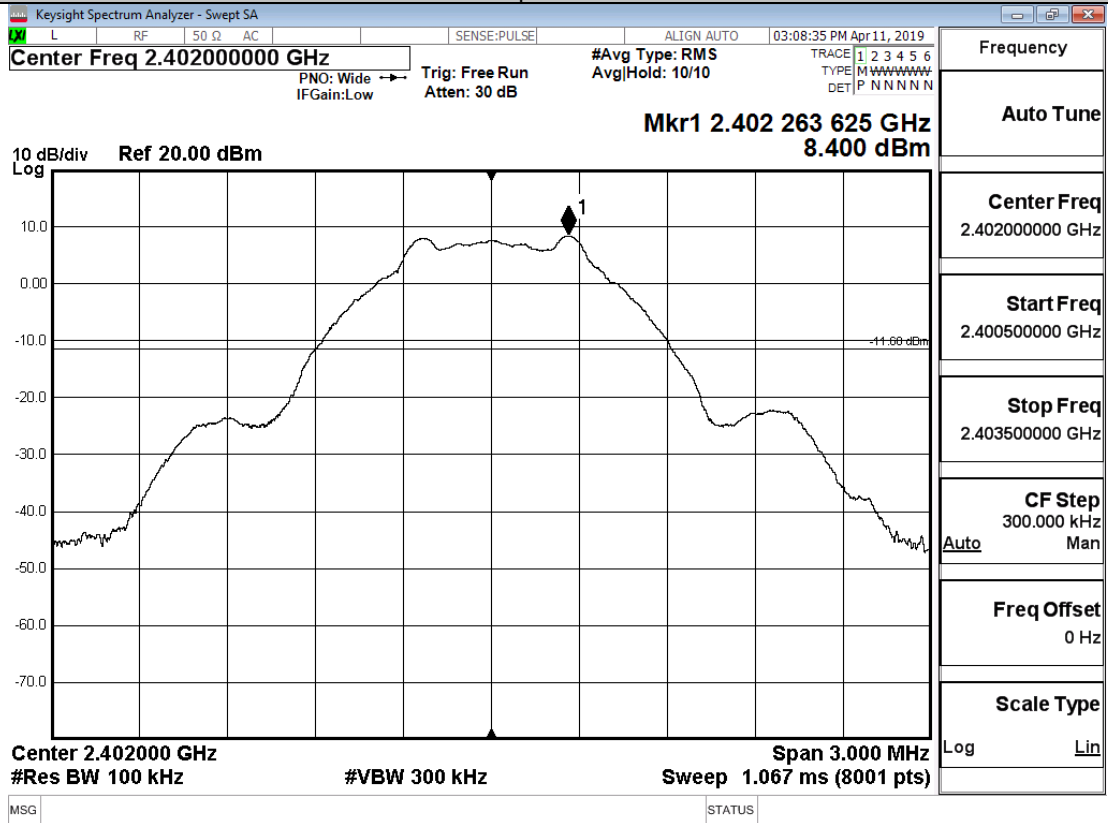


A.5 RF Conducted Spurious Emissions

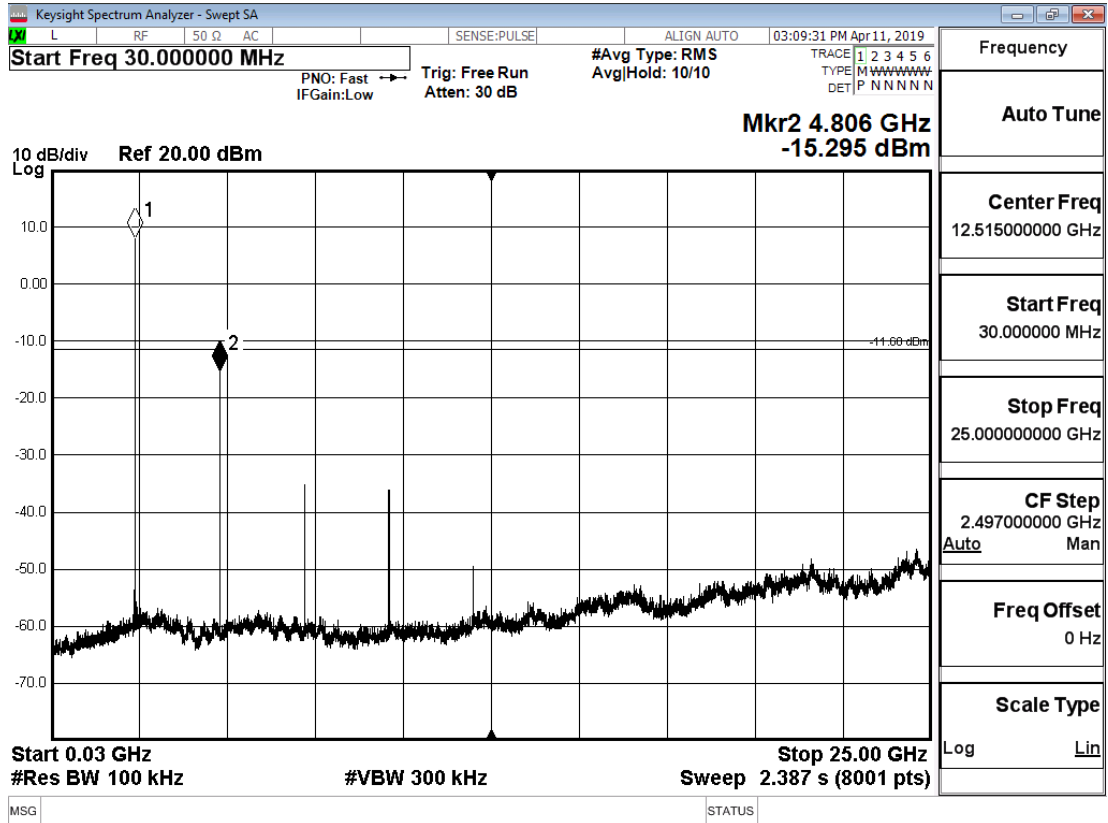
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	8.400	-15.295	-11.60	PASS
BT LE	MCH	7.245	-16.480	-12.76	PASS
BT LE	HCH	8.625	-15.696	-11.38	PASS

BT LE_LCH_Graphs

Pref/BT LE/LCH

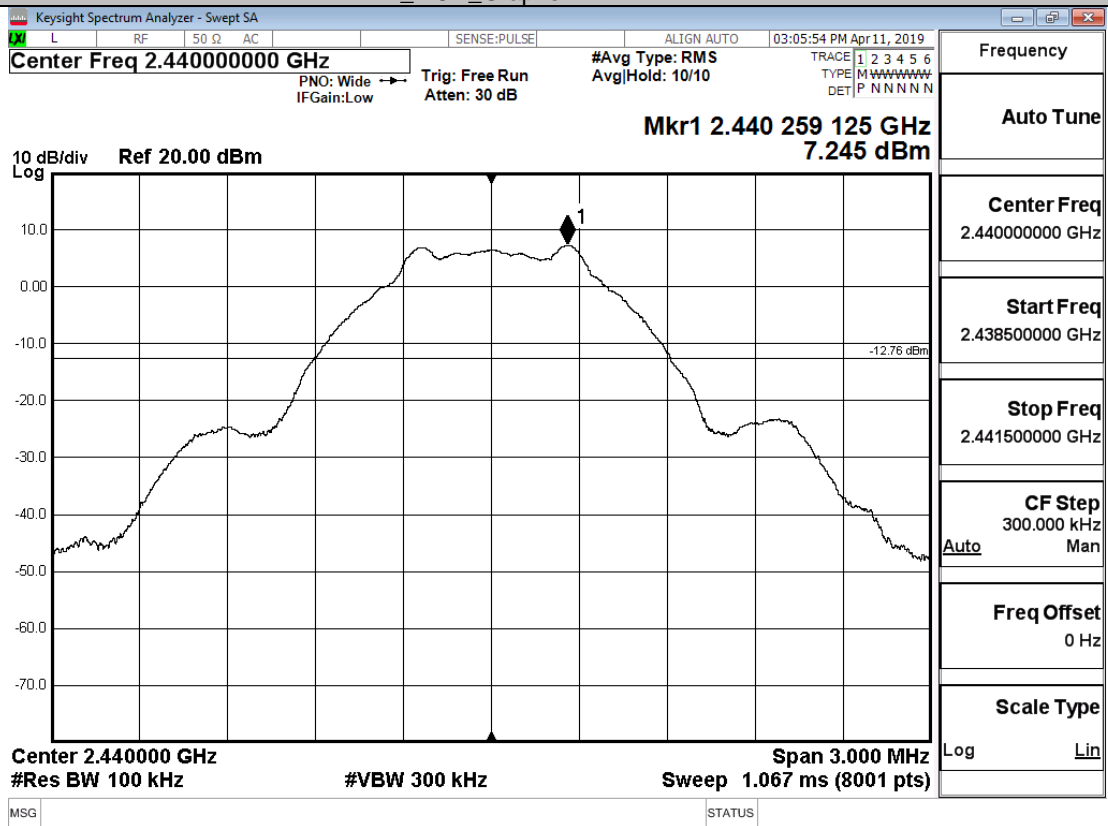


Puw/BT LE/LCH

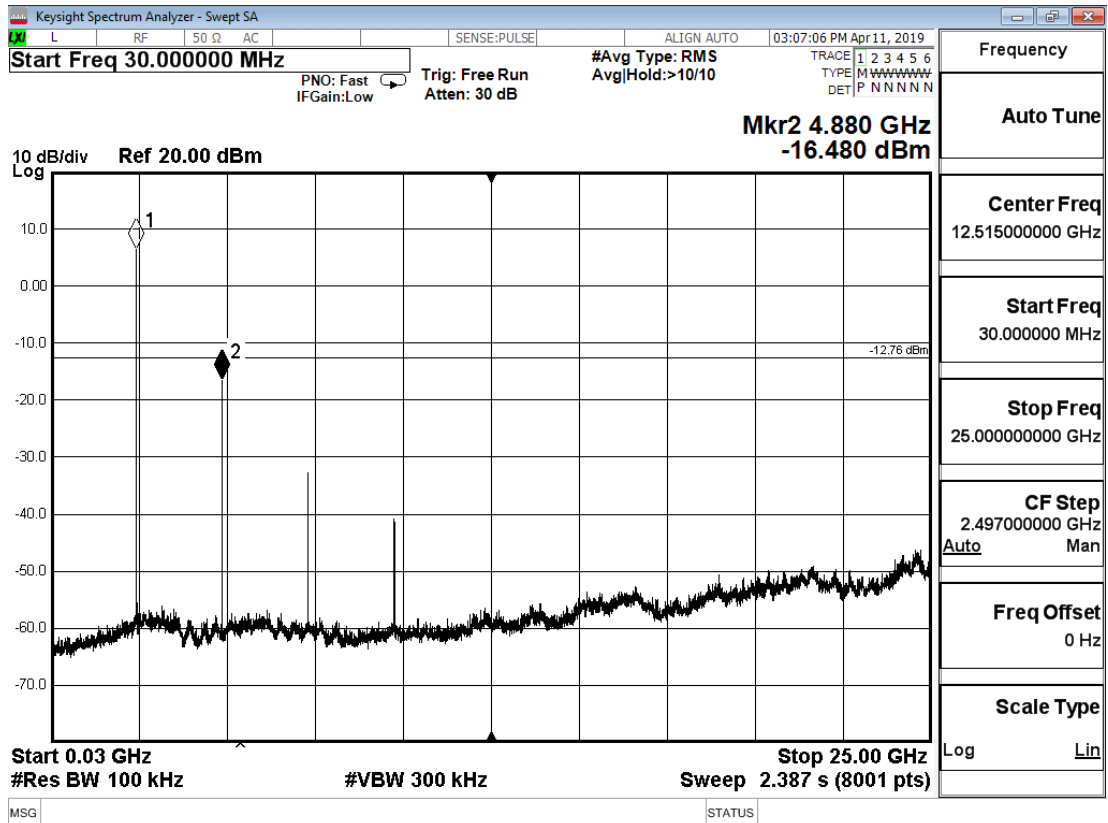


BT LE_MCH_Graphs

Pref/BT LE/MCH

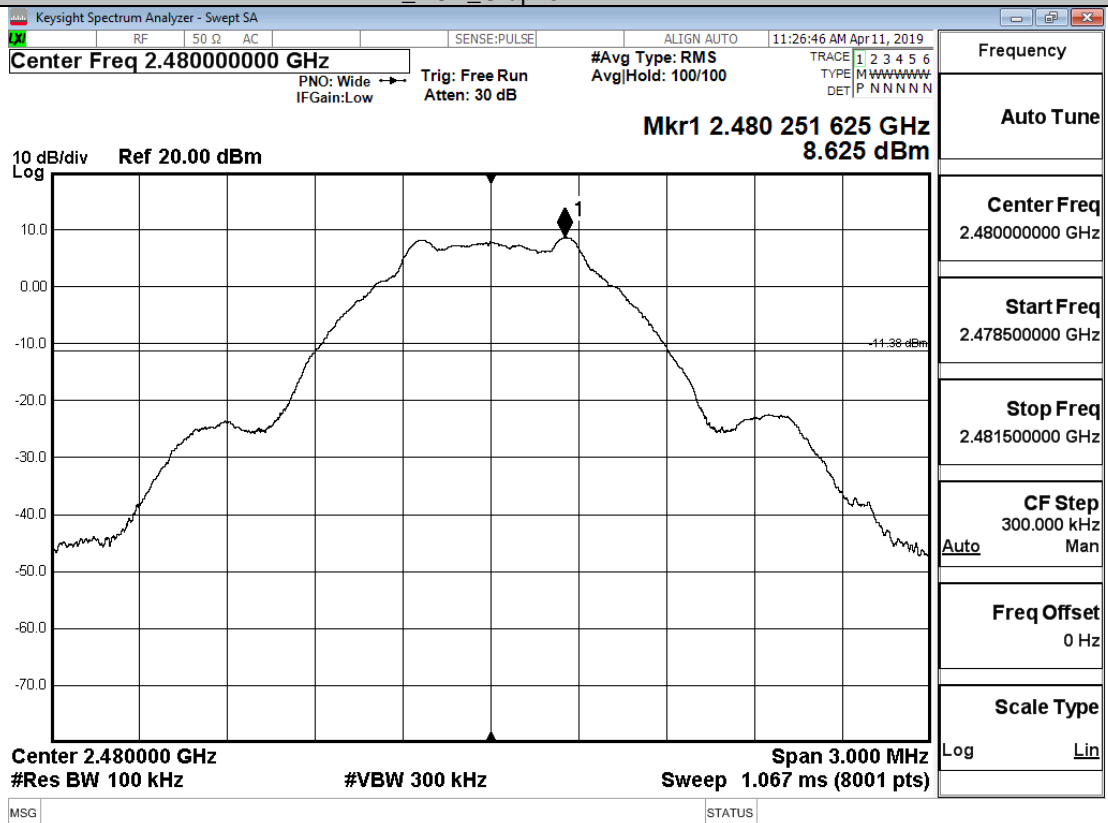


Puw/BT LE/MCH

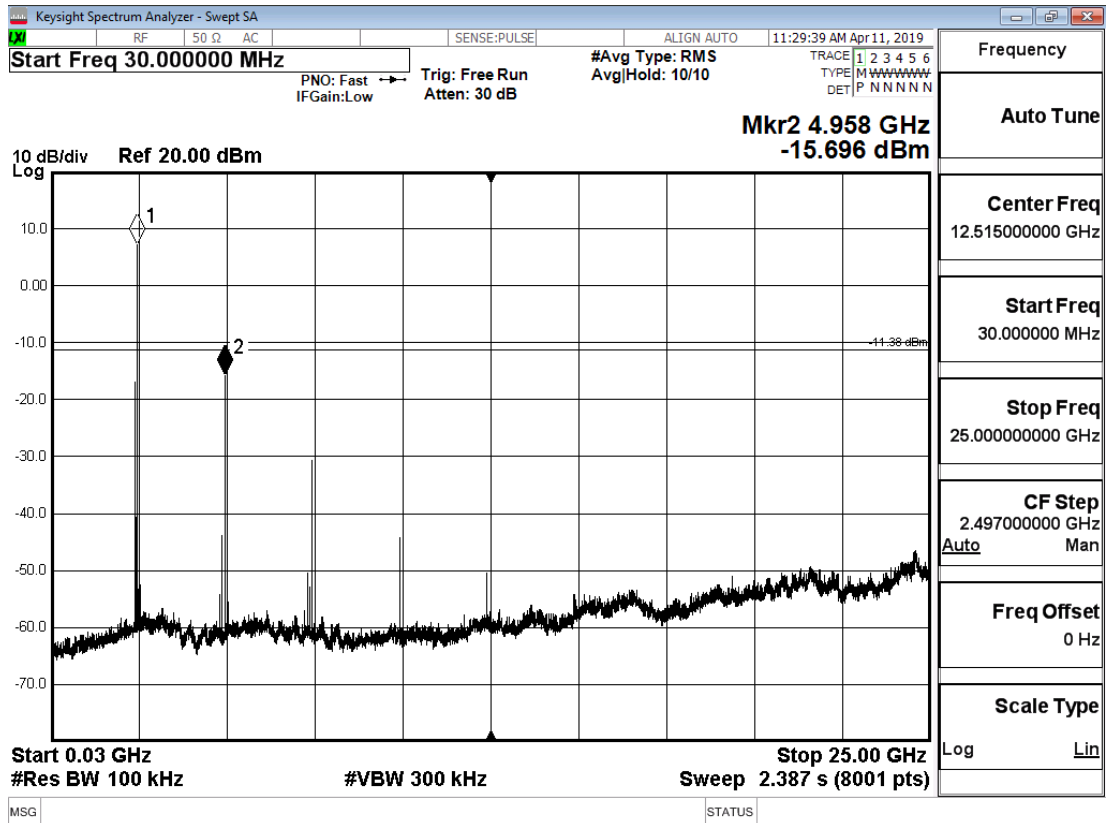


BT LE_HCH_Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

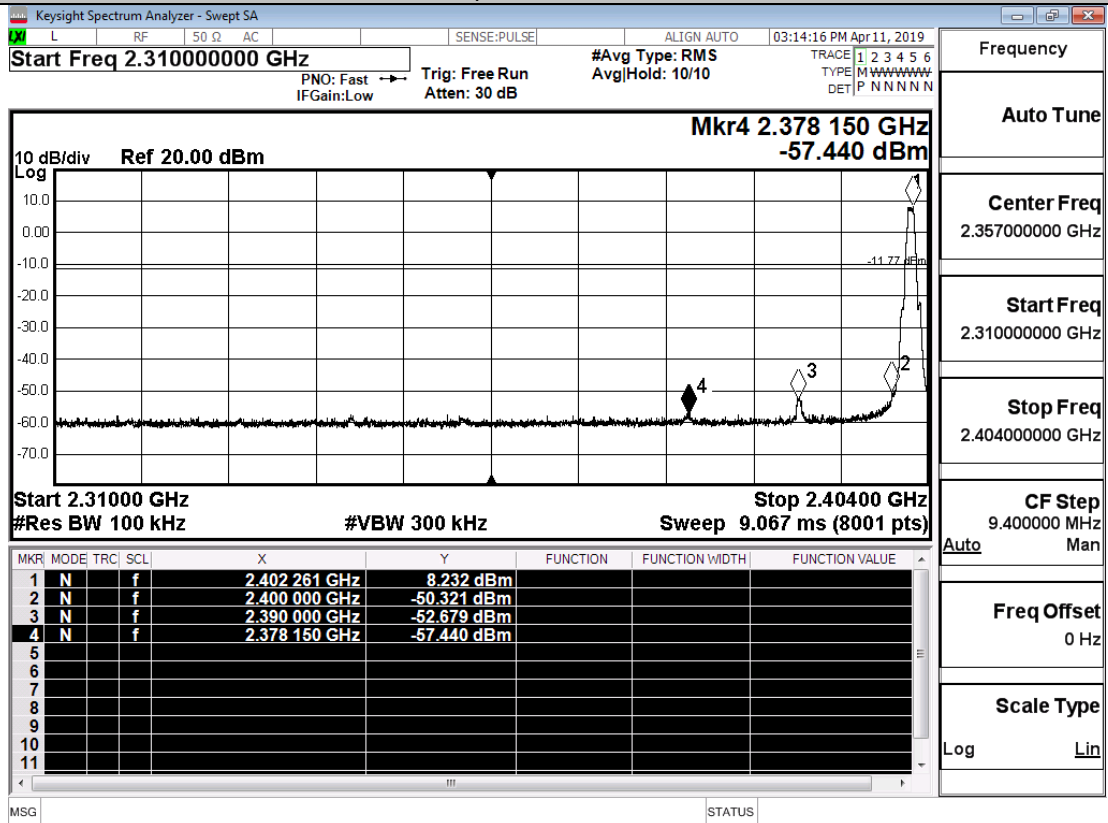


A.6 Band-edge for RF Conducted Emissions

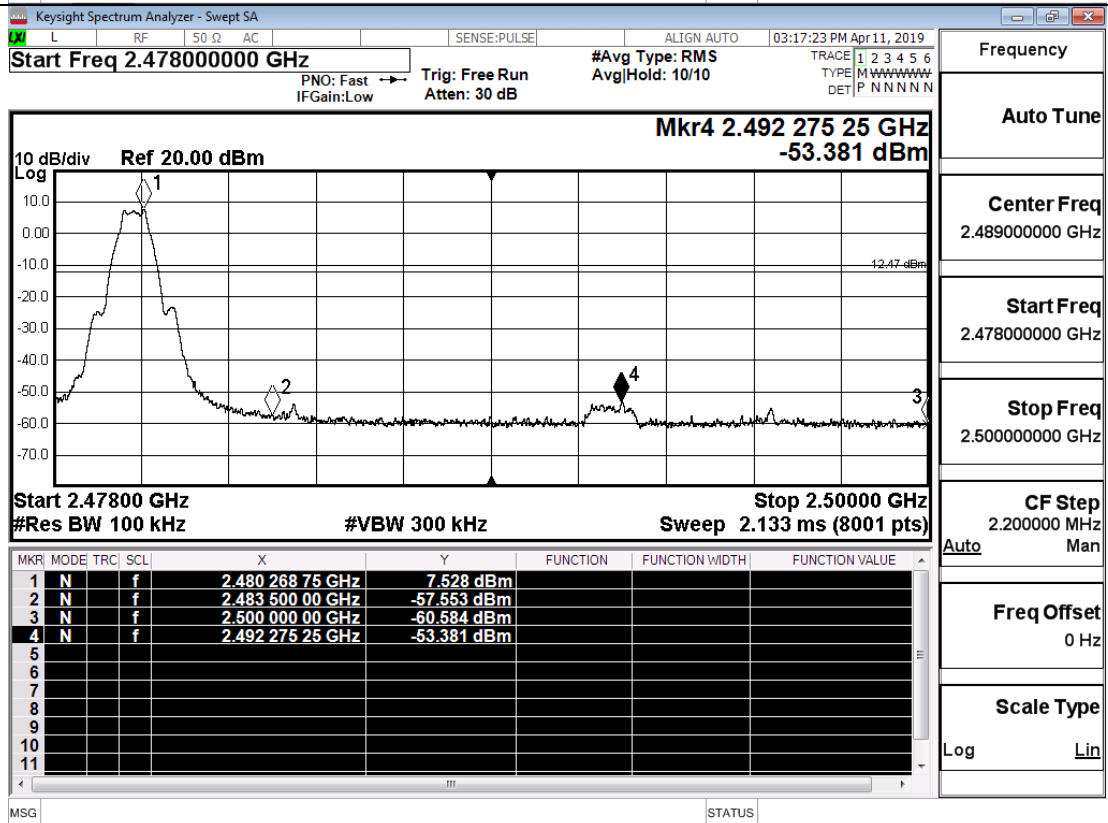
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	8.232	-50.321	-11.77	PASS
BT LE	HCH	7.528	-53.381	-12.47	PASS

Test Graphs

LCH



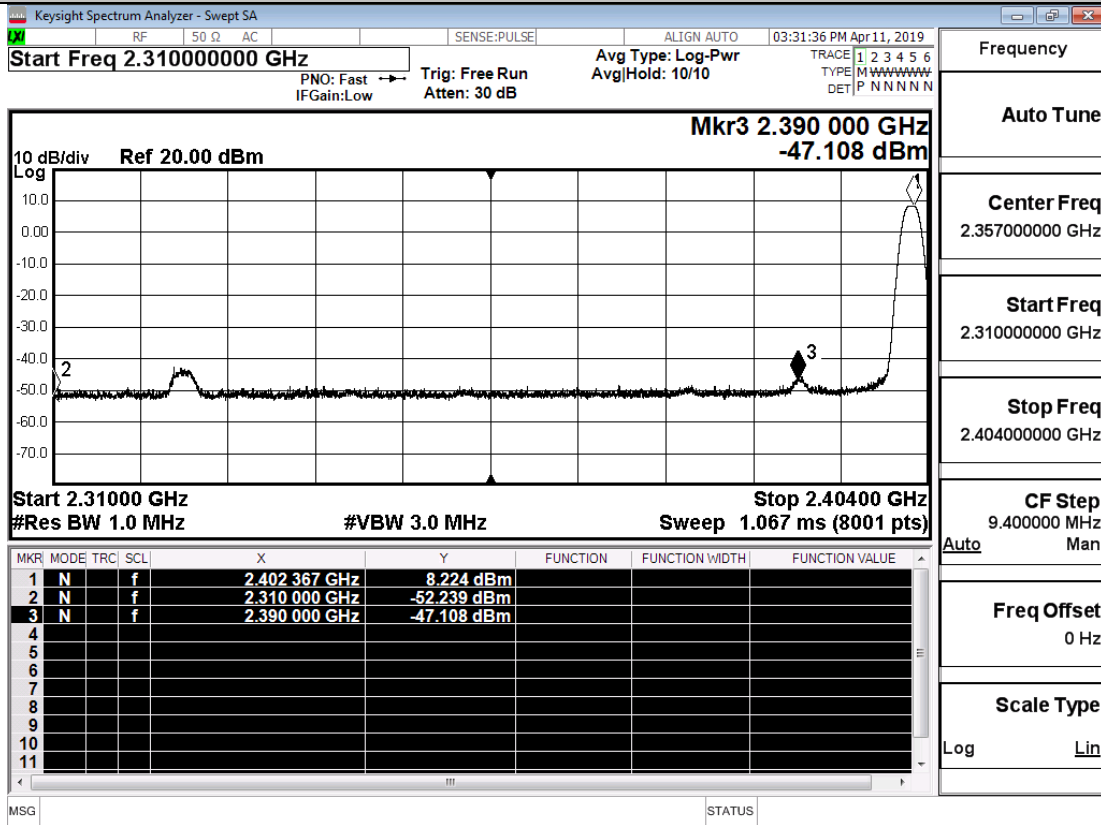
HCH



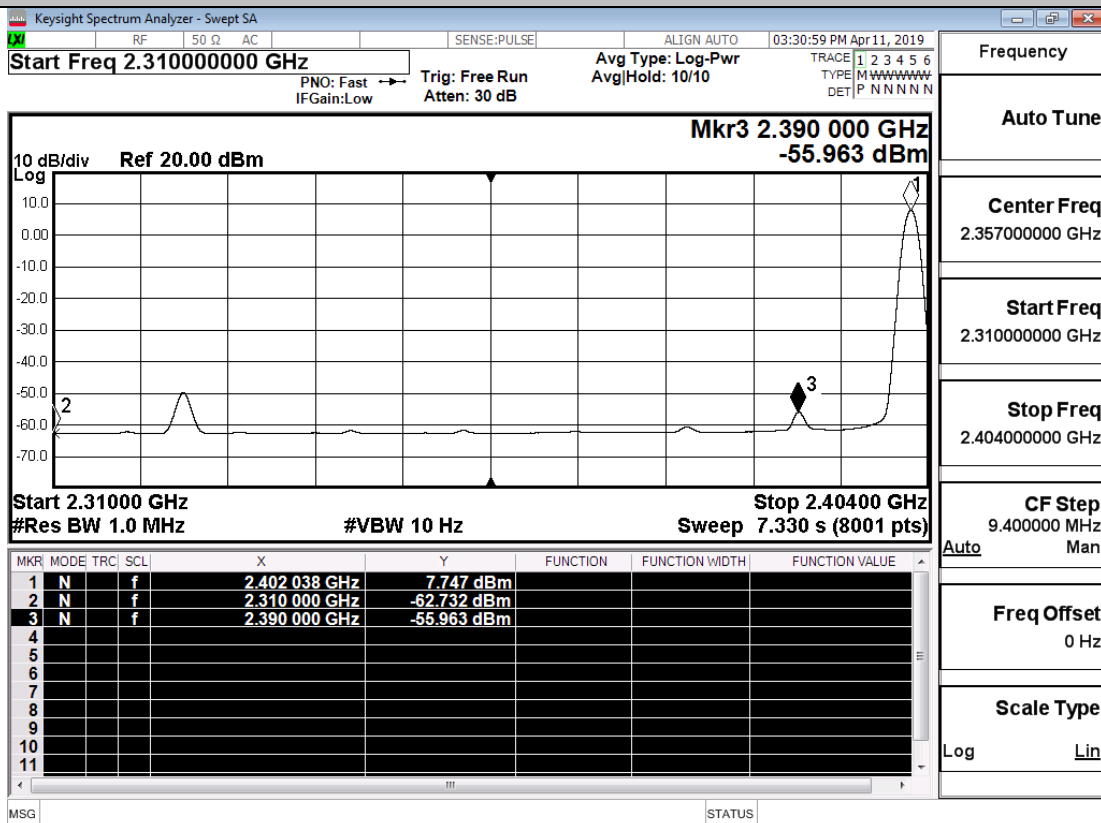
A.7 Restrict-band band-edge measurements

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	-52.239	2.0	0	44.99	PEAK	74	PASS
		Ant1	2310.0	-62.732	2.0	0	34.50	AV	54	PASS
		Ant1	2390.0	-47.108	2.0	0	50.12	PEAK	74	PASS
		Ant1	2390.0	-55.963	2.0	0	41.27	AV	54	PASS
	2480	Ant1	2483.5	-46.892	2.0	0	50.34	PEAK	74	PASS
		Ant1	2483.5	-58.673	2.0	0	38.56	AV	54	PASS
		Ant1	2500.0	-50.407	2.0	0	46.82	PEAK	74	PASS
		Ant1	2500.0	-61.766	2.0	0	35.46	AV	54	PASS

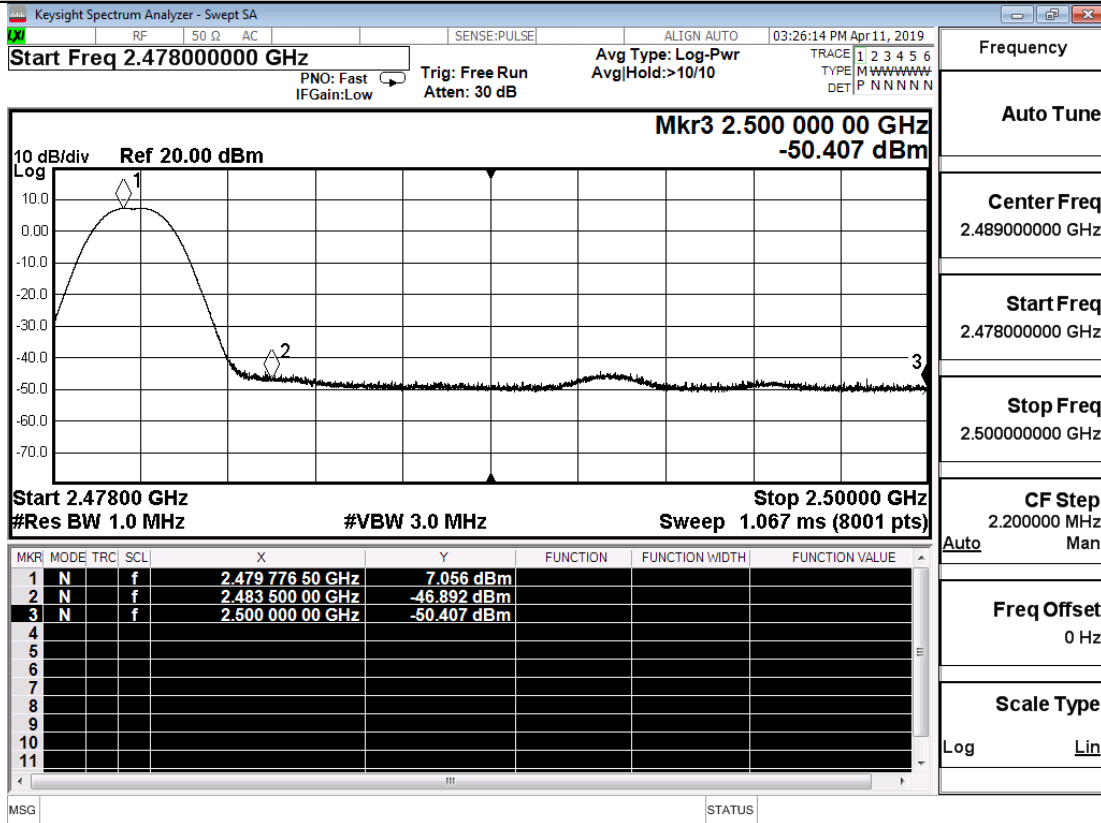
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

