

Appendix A

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

Product Name: Surface mounted Ceiling Lamp LED 24W

Trade Mark: Artika

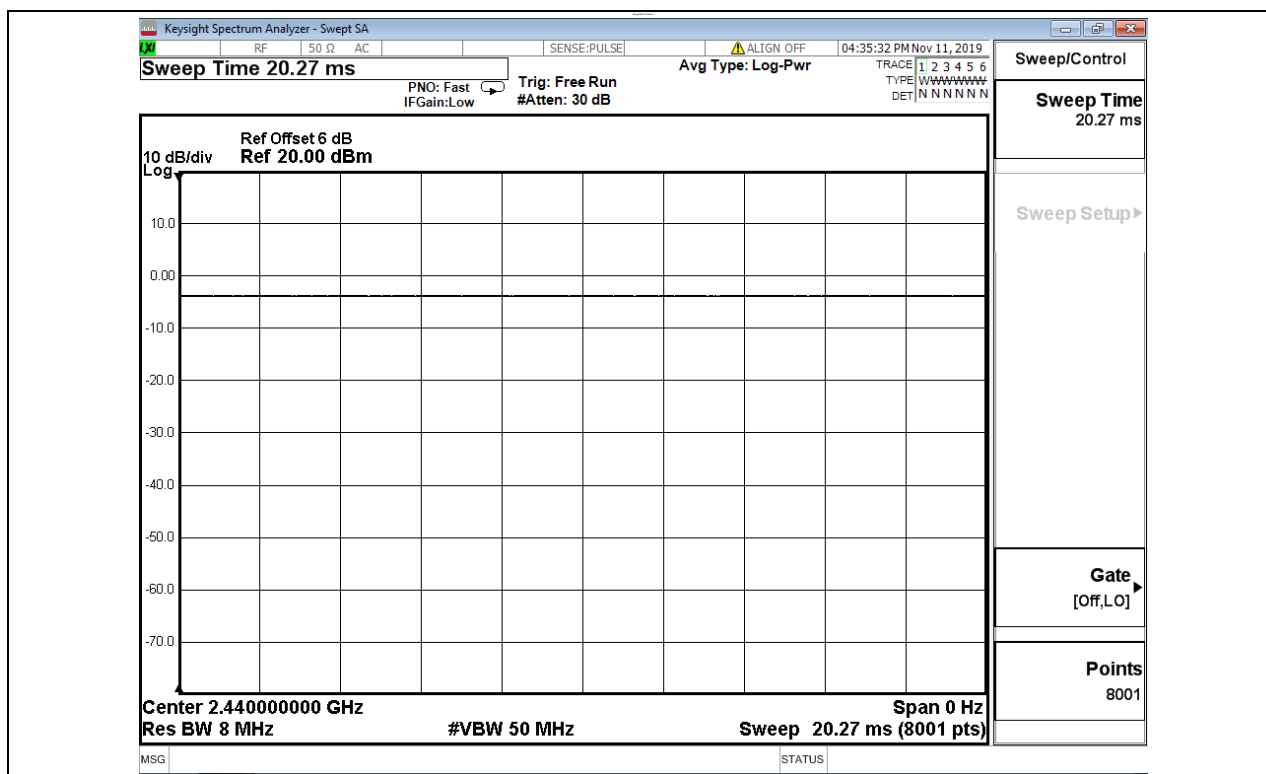
Test Model: CL-GLX-C

Environmental Conditions

Temperature:	23.6° C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Dana Tang
Supervised by:	Jayden Zhuo

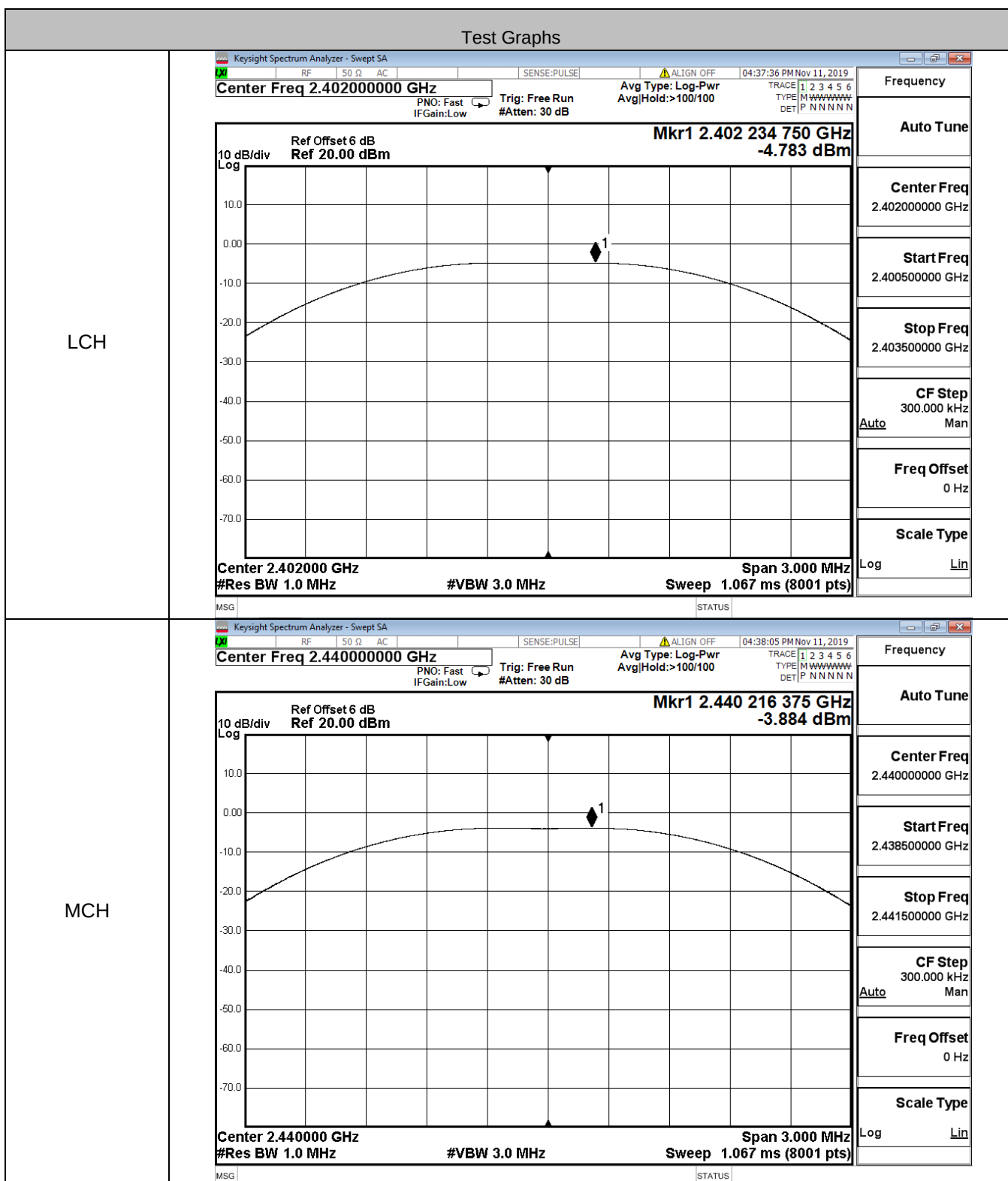
A.1 Duty Cycle

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

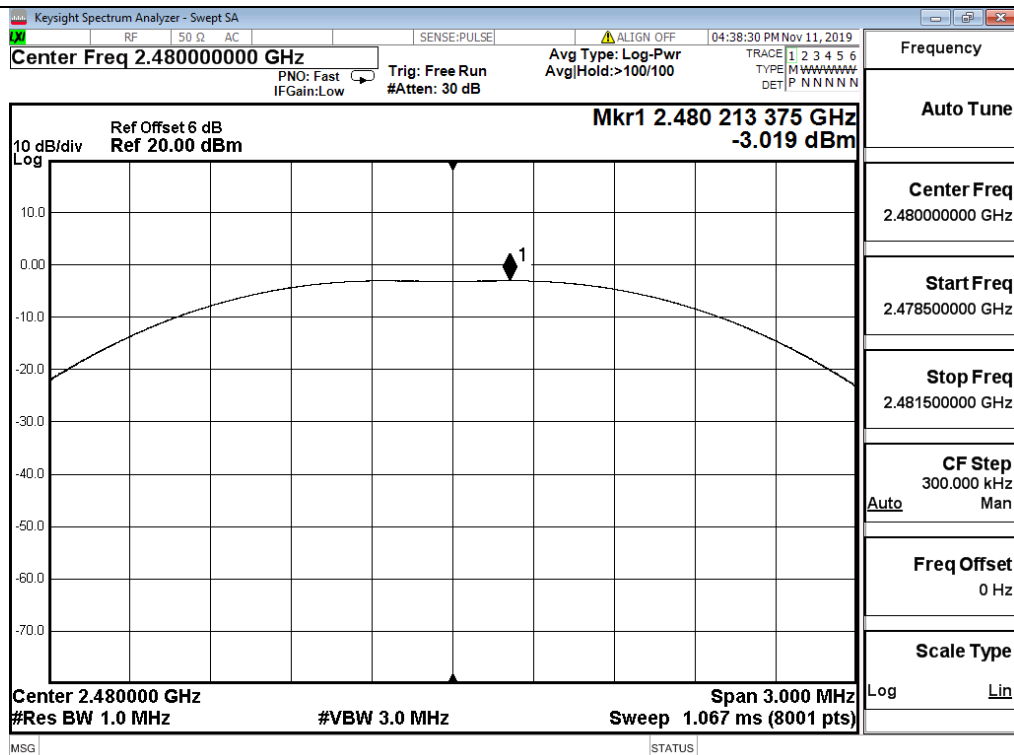


A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-4.783	30	PASS
BT LE	MCH	-3.884	30	PASS
BT LE	HCH	-3.019	30	PASS



HCH

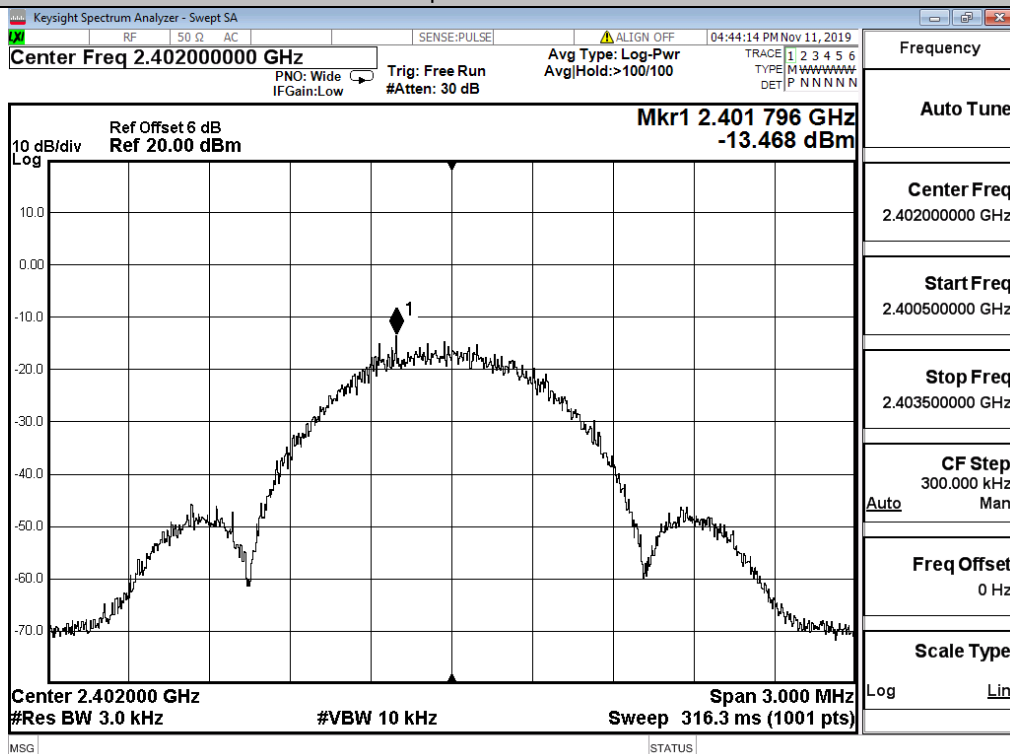


A.3 Maximum Power Spectral Density

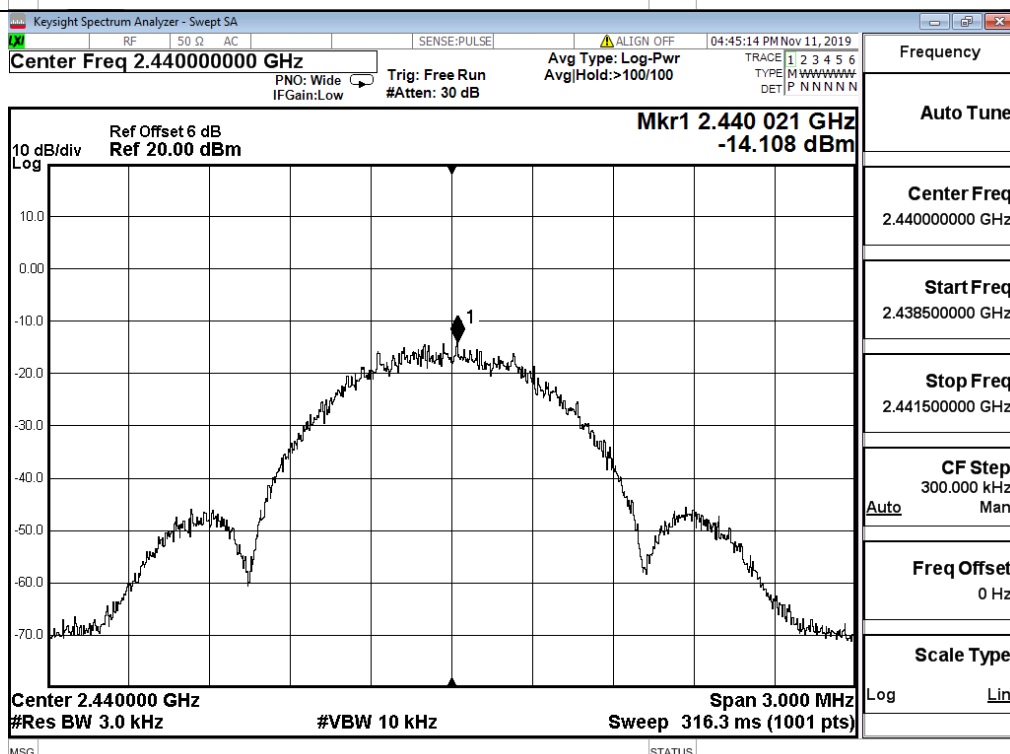
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-13.468	8	PASS
BT LE	MCH	-14.108	8	PASS
BT LE	HCH	-13.537	8	PASS

Test Graphs

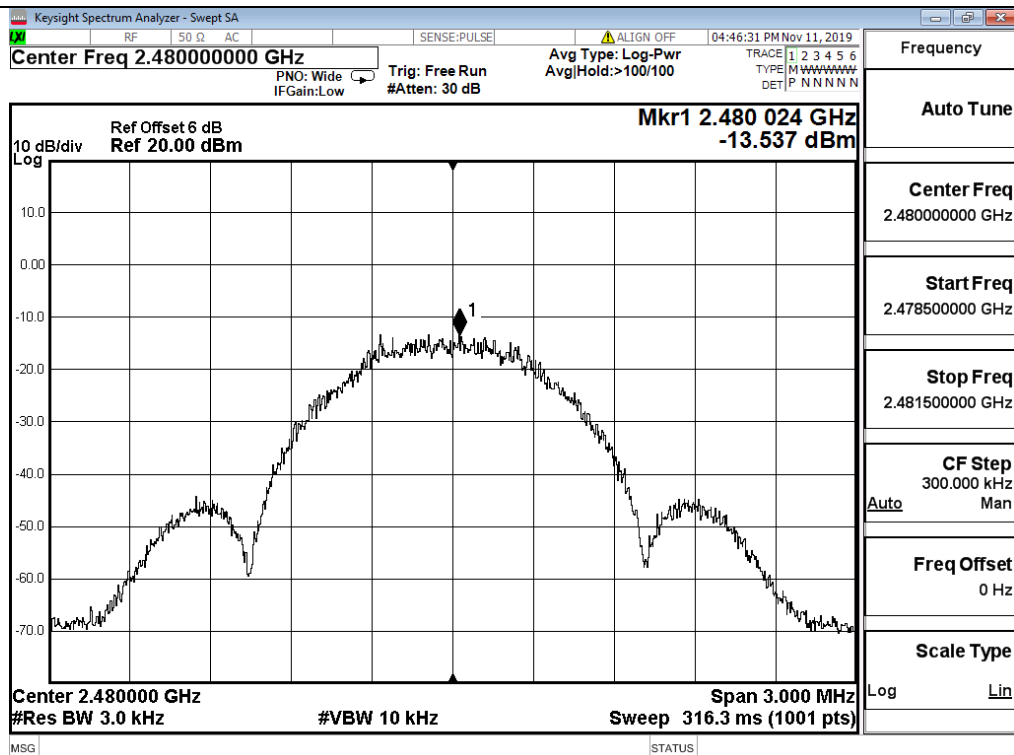
LCH



MCH



HCH

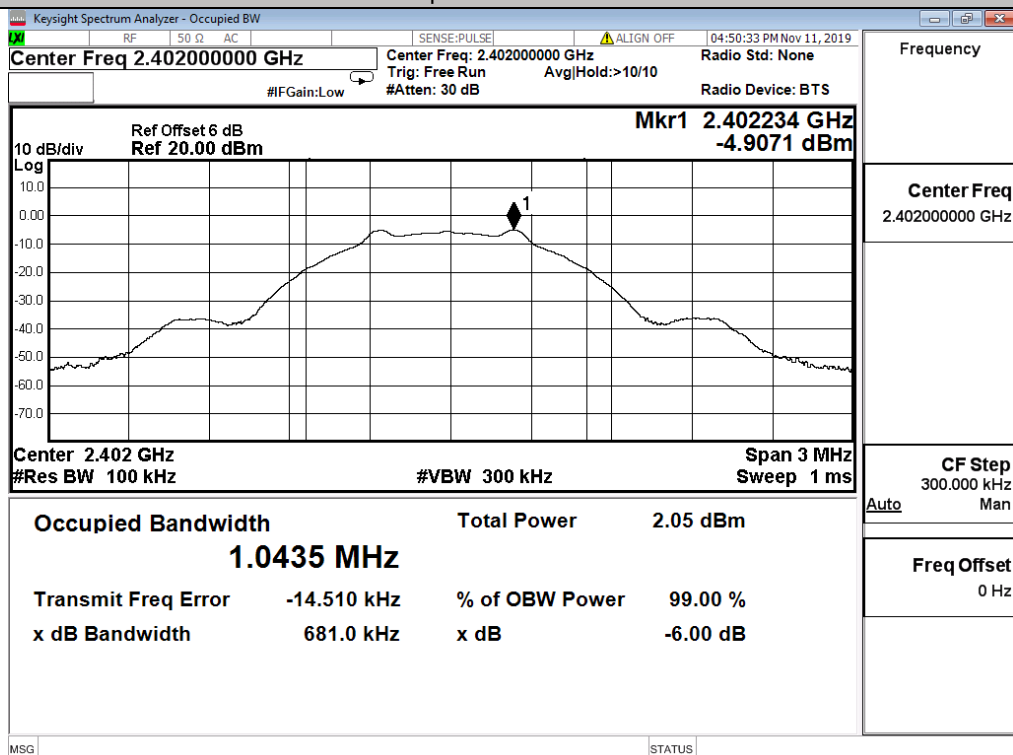


A.4 6dB Bandwidth

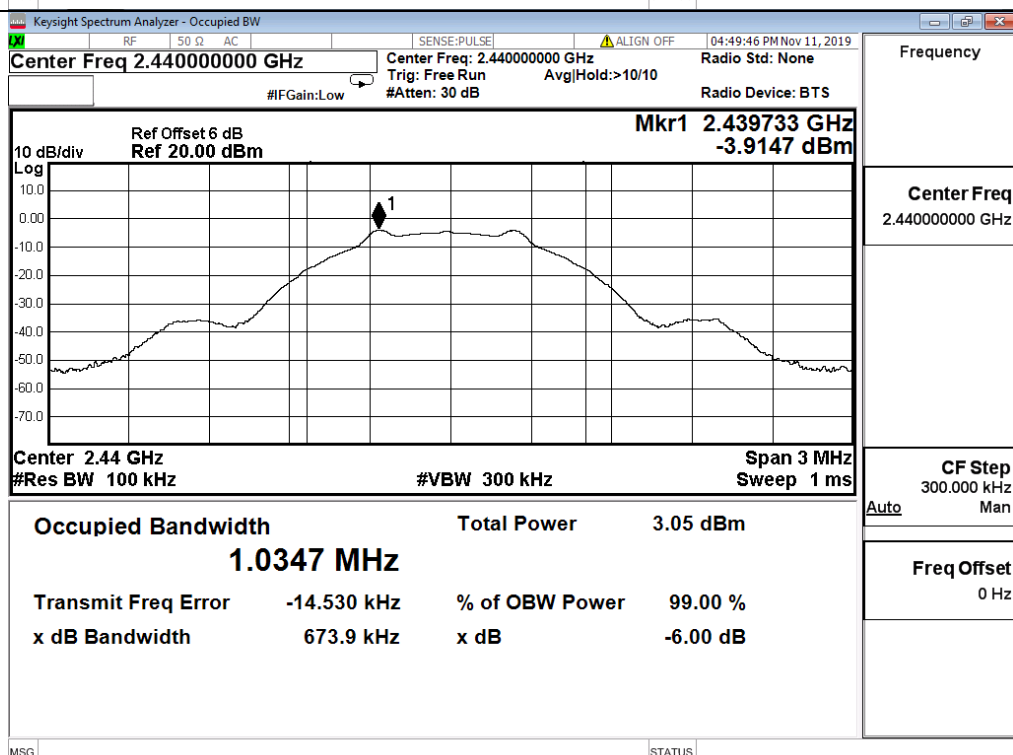
Mode	Channel	6dB Bandwidth [MHz]	6dB Bandwidth Limit [MHz]	Verdict
BT LE	LCH	0.6810	≥0.5	PASS
BT LE	MCH	0.6739	≥0.5	PASS
BT LE	HCH	0.6743	≥0.5	PASS

Test Graphs

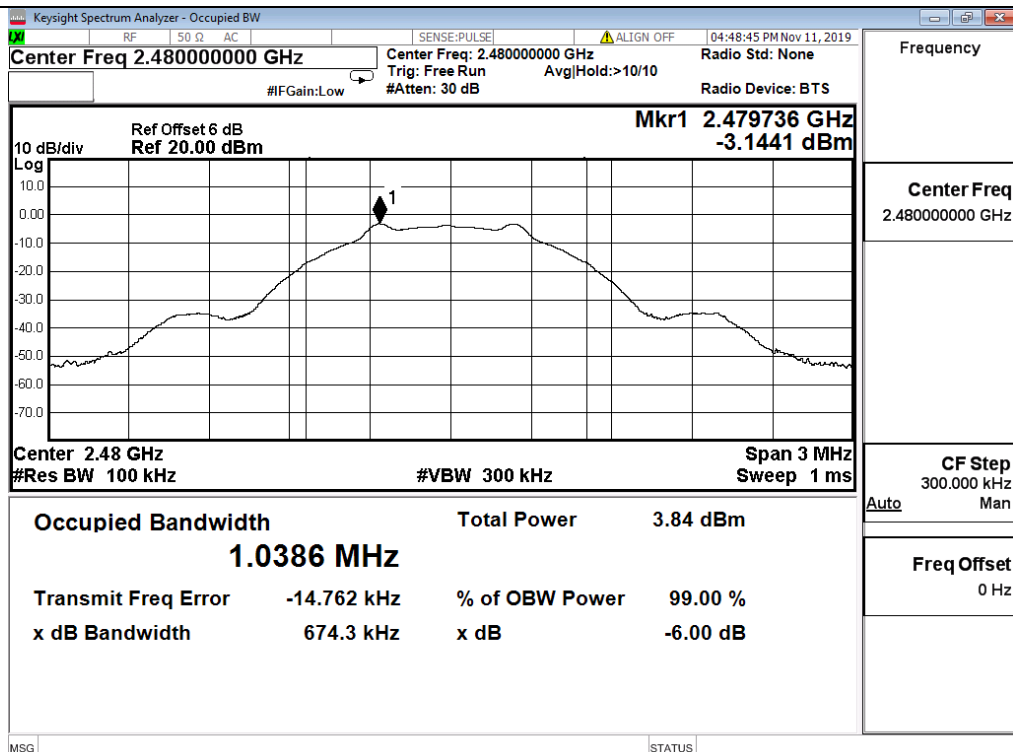
LCH



MCH

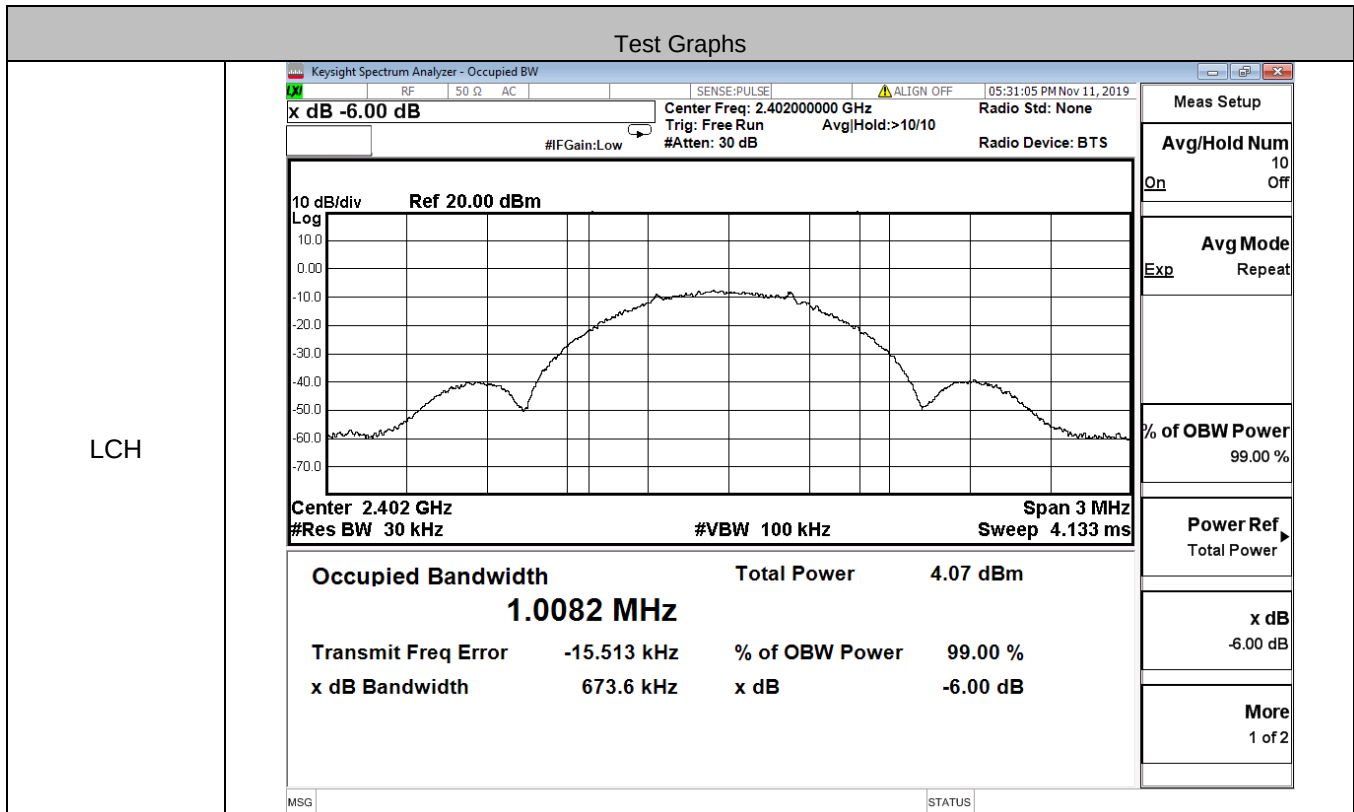


HCH

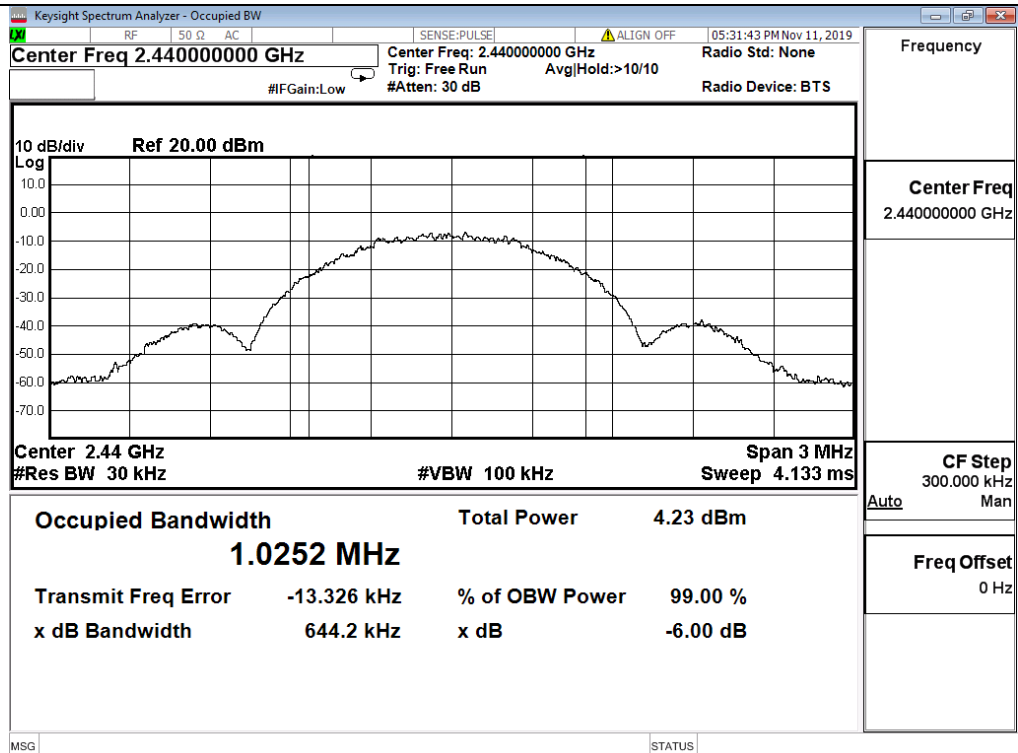


A.5 Occupied Bandwidth

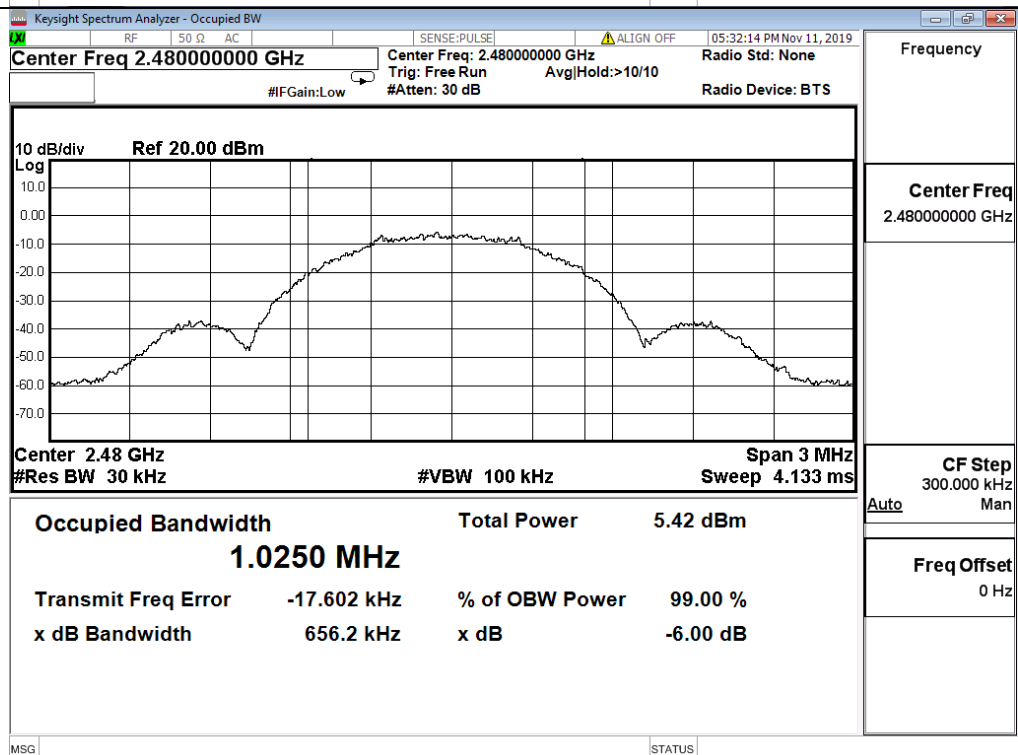
Mode	Channel	Occupied Bandwidth (99%)[MHz]	Occupied Bandwidth Limit [MHz]	Verdict
BT LE	LCH	1.0082	--	PASS
BT LE	MCH	1.0252	--	PASS
BT LE	HCH	1.0250	--	PASS



MCH

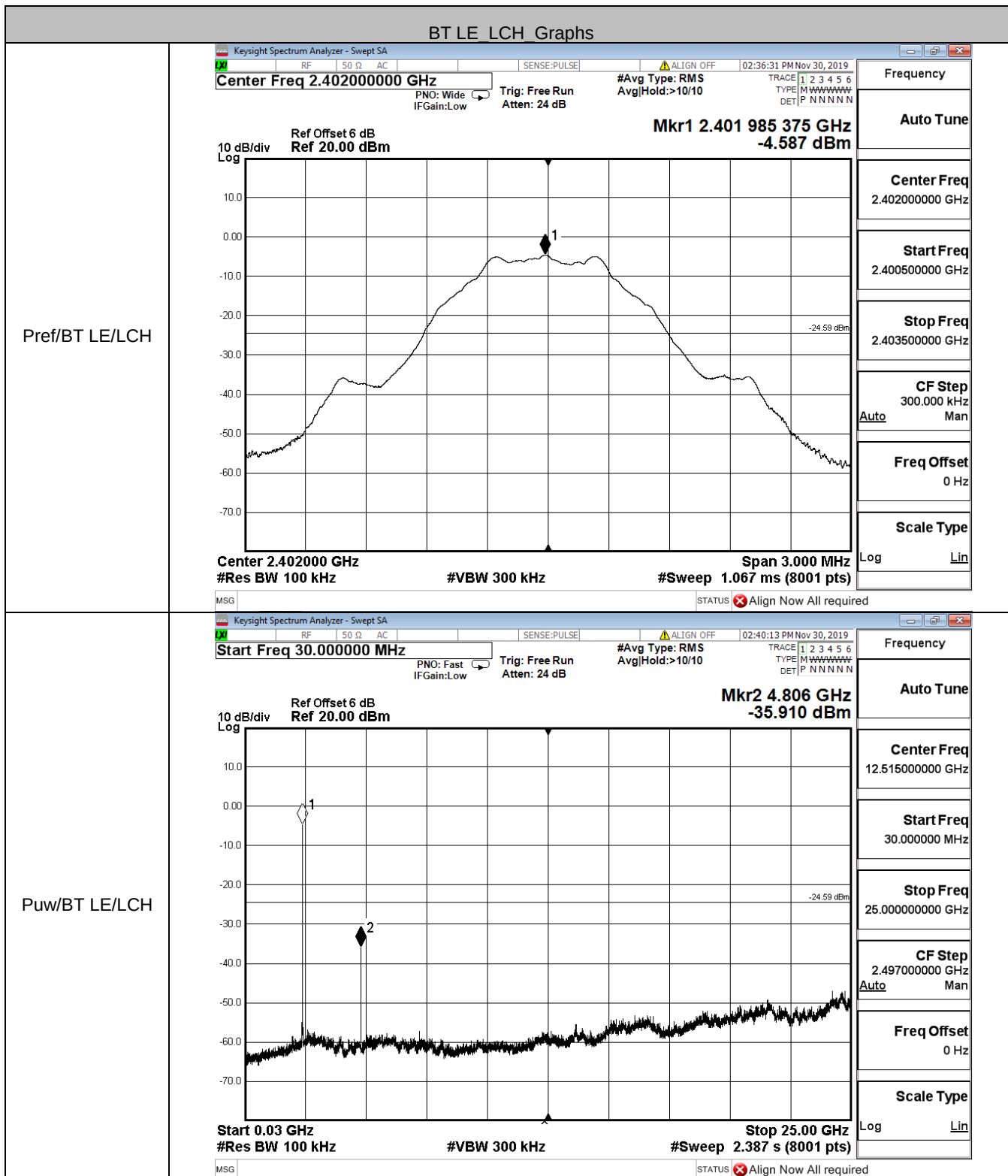


HCH



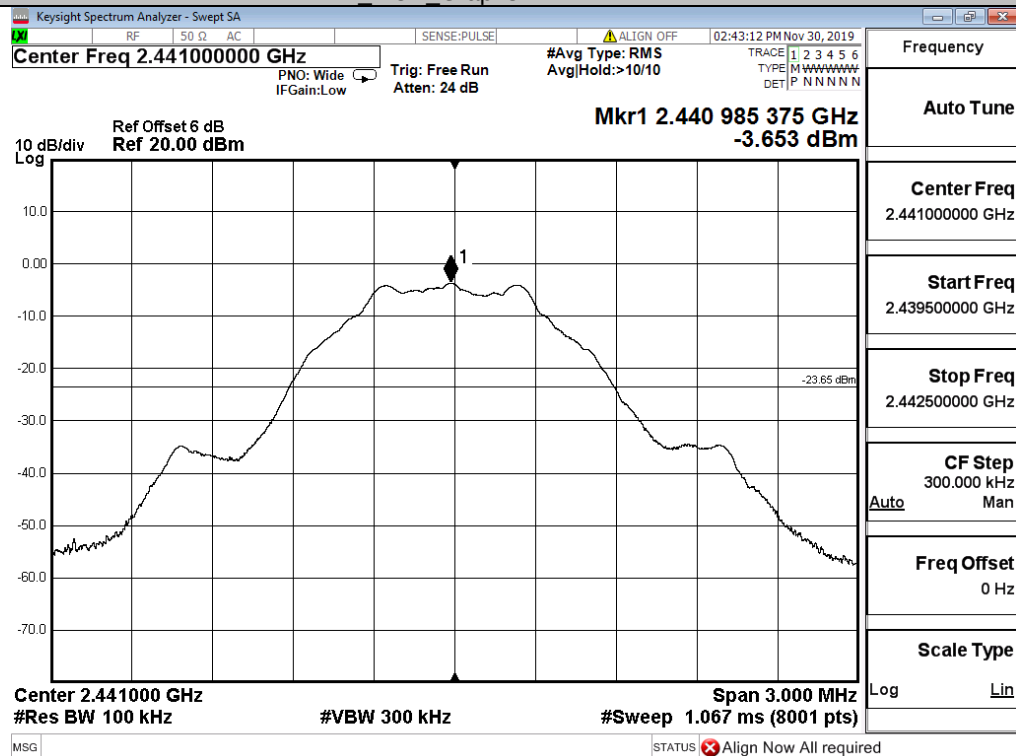
A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-4.587	-35.910	-24.59	PASS
BT LE	MCH	-3.653	-40.842	-23.65	PASS
BT LE	HCH	-2.951	-44.630	-22.95	PASS

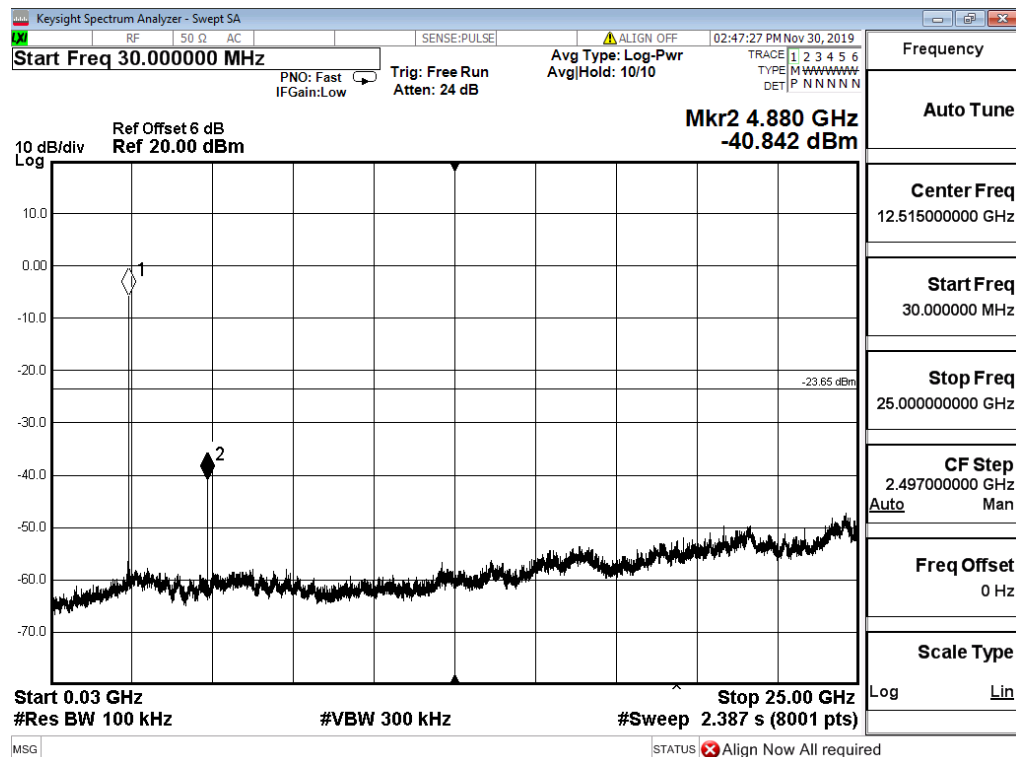


BT LE_MCH Graphs

Pref/BT LE/MCH

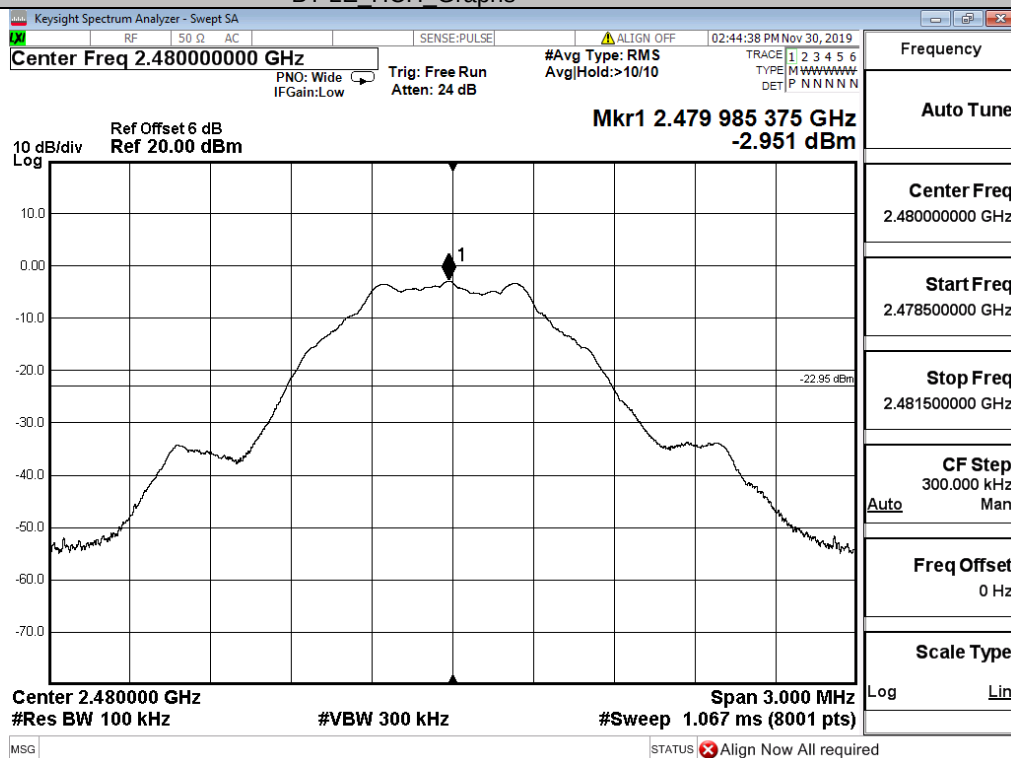


Puw/BT LE/MCH

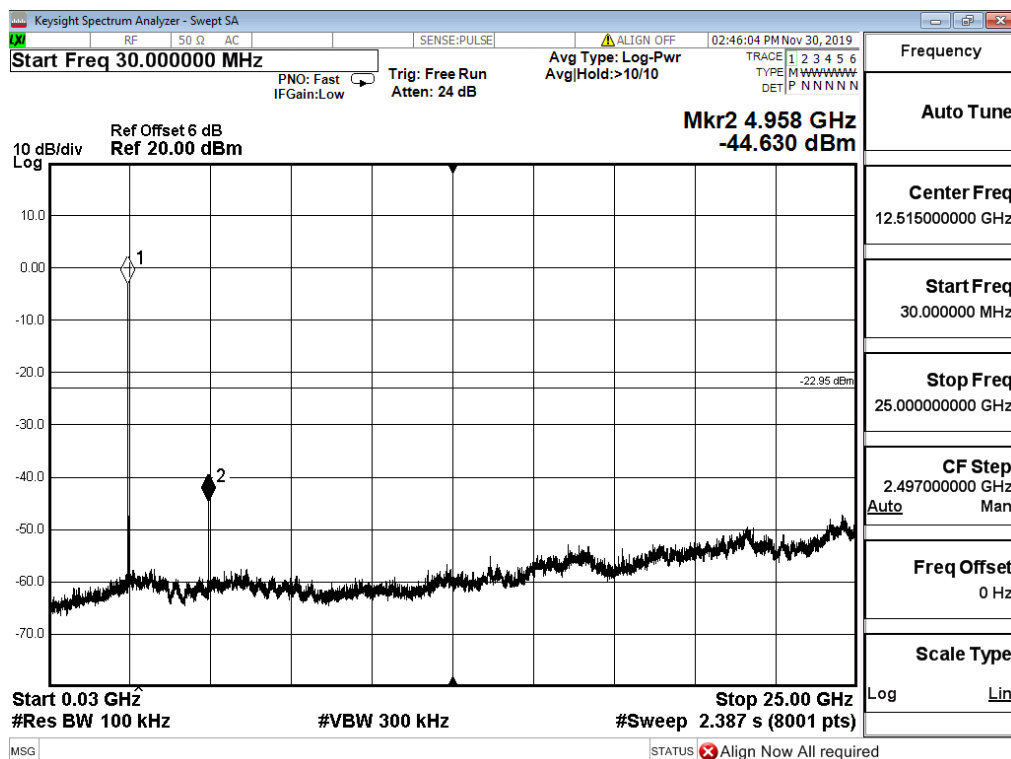


BT LE HCH Graphs

Pref/BT LE/HCH



PuW/BT LE/HCH

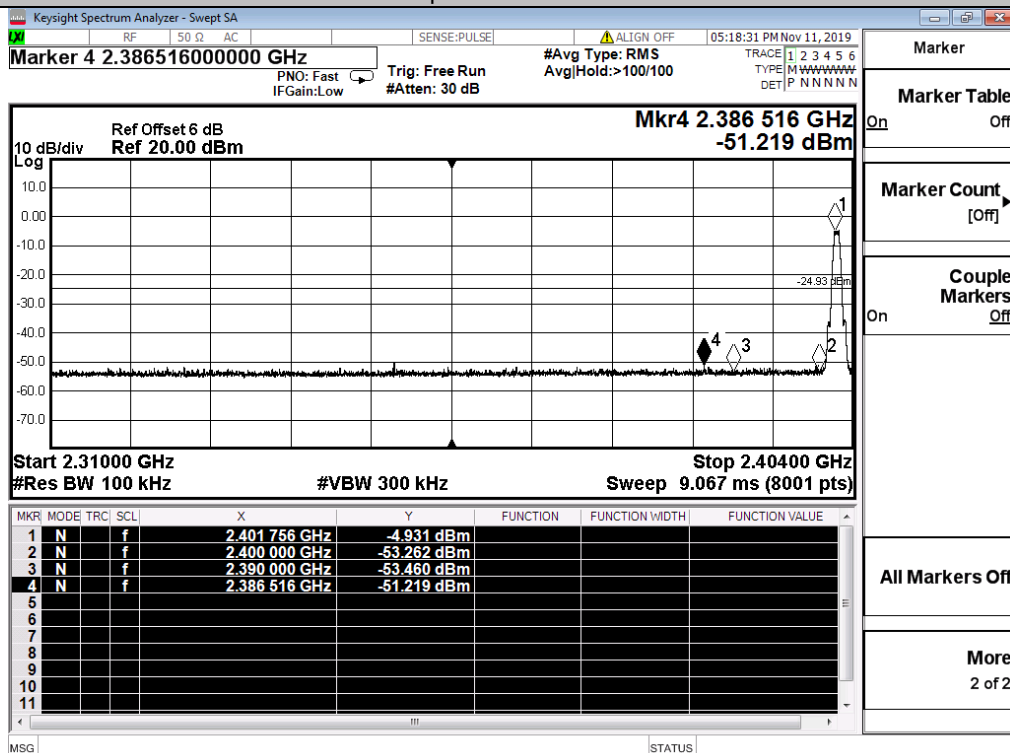


A.7 Band-edge for RF Conducted Emissions

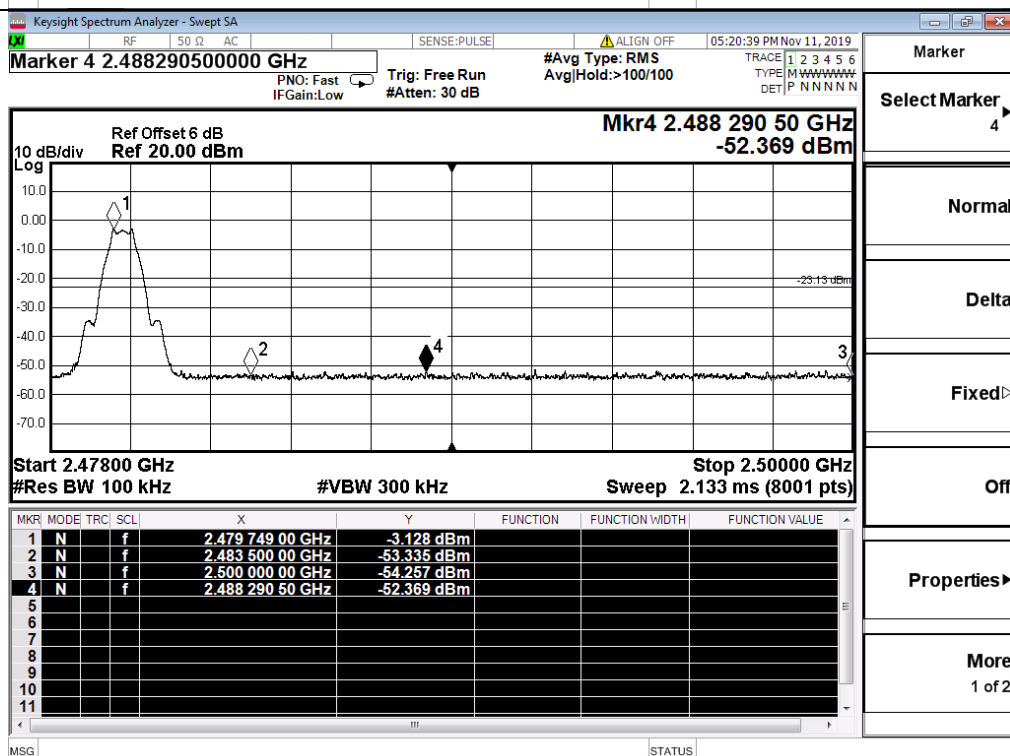
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-4.931	-51.219	-24.93	PASS
BT LE	HCH	-3.128	-52.369	-23.13	PASS

Test Graphs

LCH



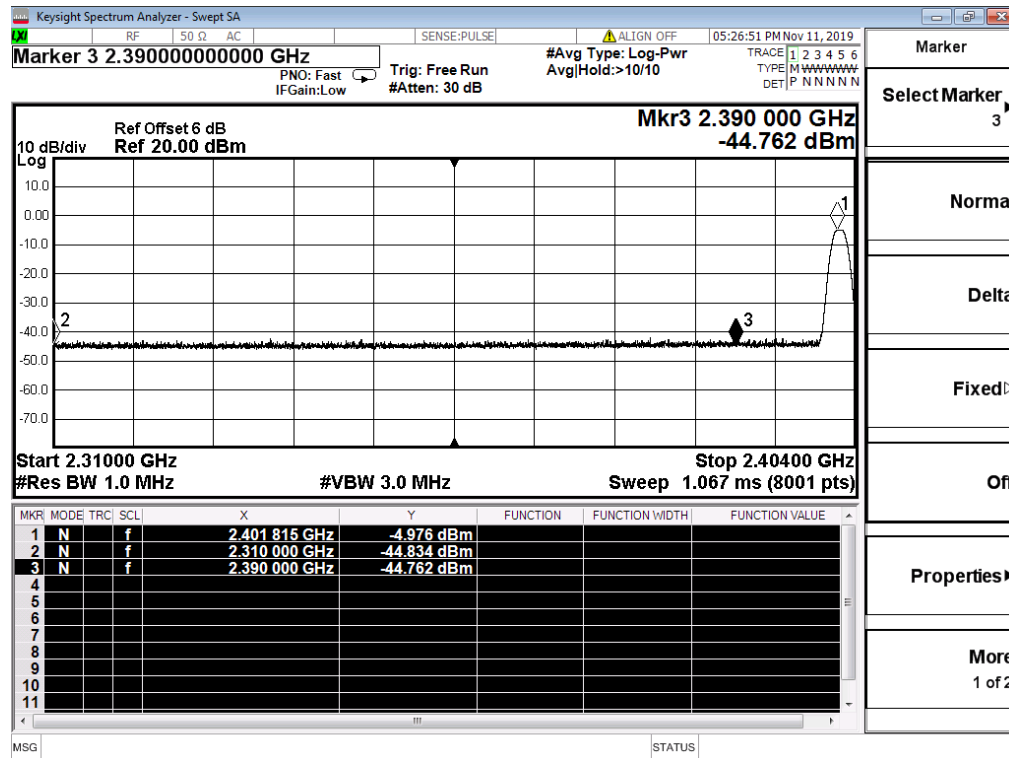
HCH



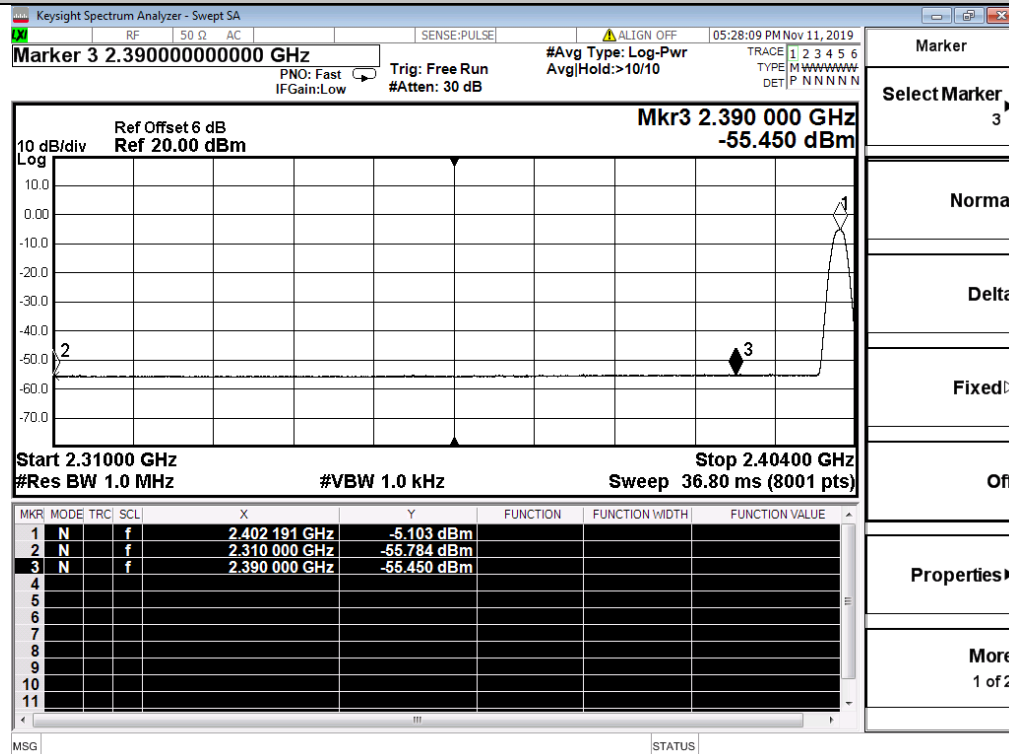
A.8 Restrict-band band-edge measurements

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	-44.834	2.5	0	52.93	PEAK	74	PASS
		Ant1	2310.0	-55.784	2.5	0	41.98	AV	54	PASS
		Ant1	2390.0	-44.762	2.5	0	53.00	PEAK	74	PASS
		Ant1	2390.0	-55.450	2.5	0	42.31	AV	54	PASS
	2480	Ant1	2483.5	-45.744	2.5	0	52.02	PEAK	74	PASS
		Ant1	2483.5	-55.087	2.5	0	42.67	AV	54	PASS
		Ant1	2500.0	-44.739	2.5	0	53.02	PEAK	74	PASS
		Ant1	2500.0	-54.877	2.5	0	42.88	AV	54	PASS

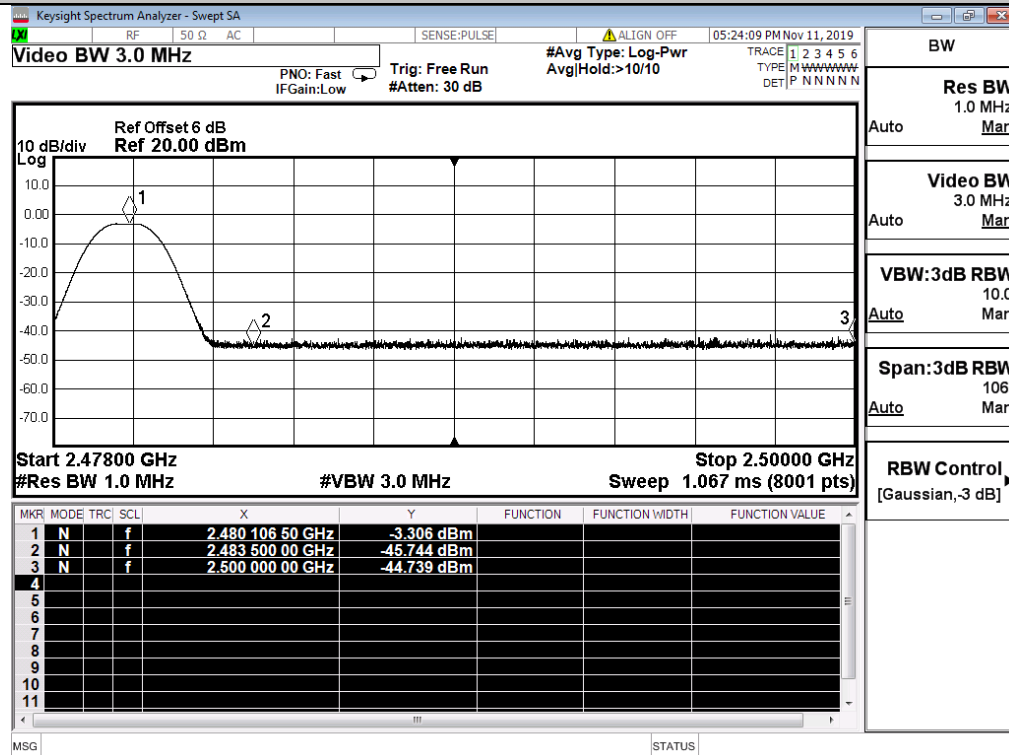
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

