

Appendix A

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

Product Name: Wireless (Bluetooth+SKAA 2.4GHz) headphones

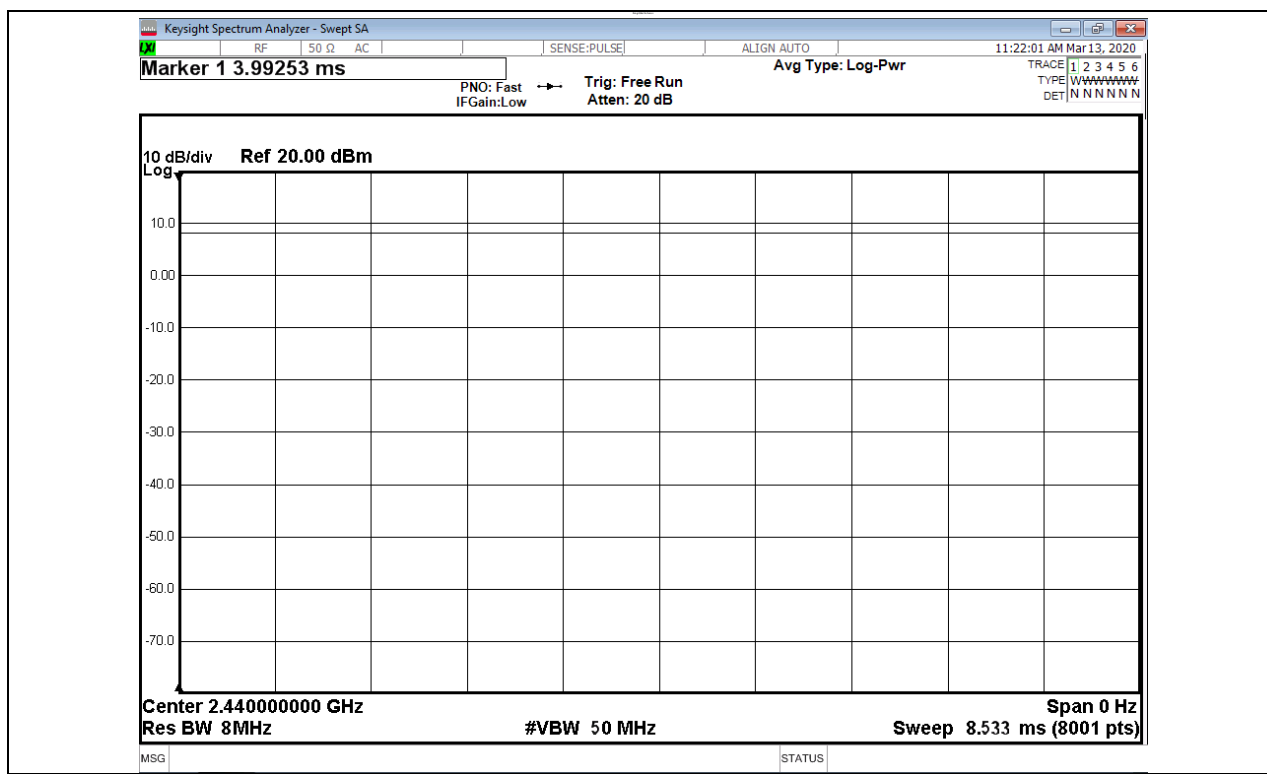


Environmental Conditions

Temperature:	23.9° C
Relative Humidity:	54%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom Liu
Supervised by:	Jayden.Zhuo

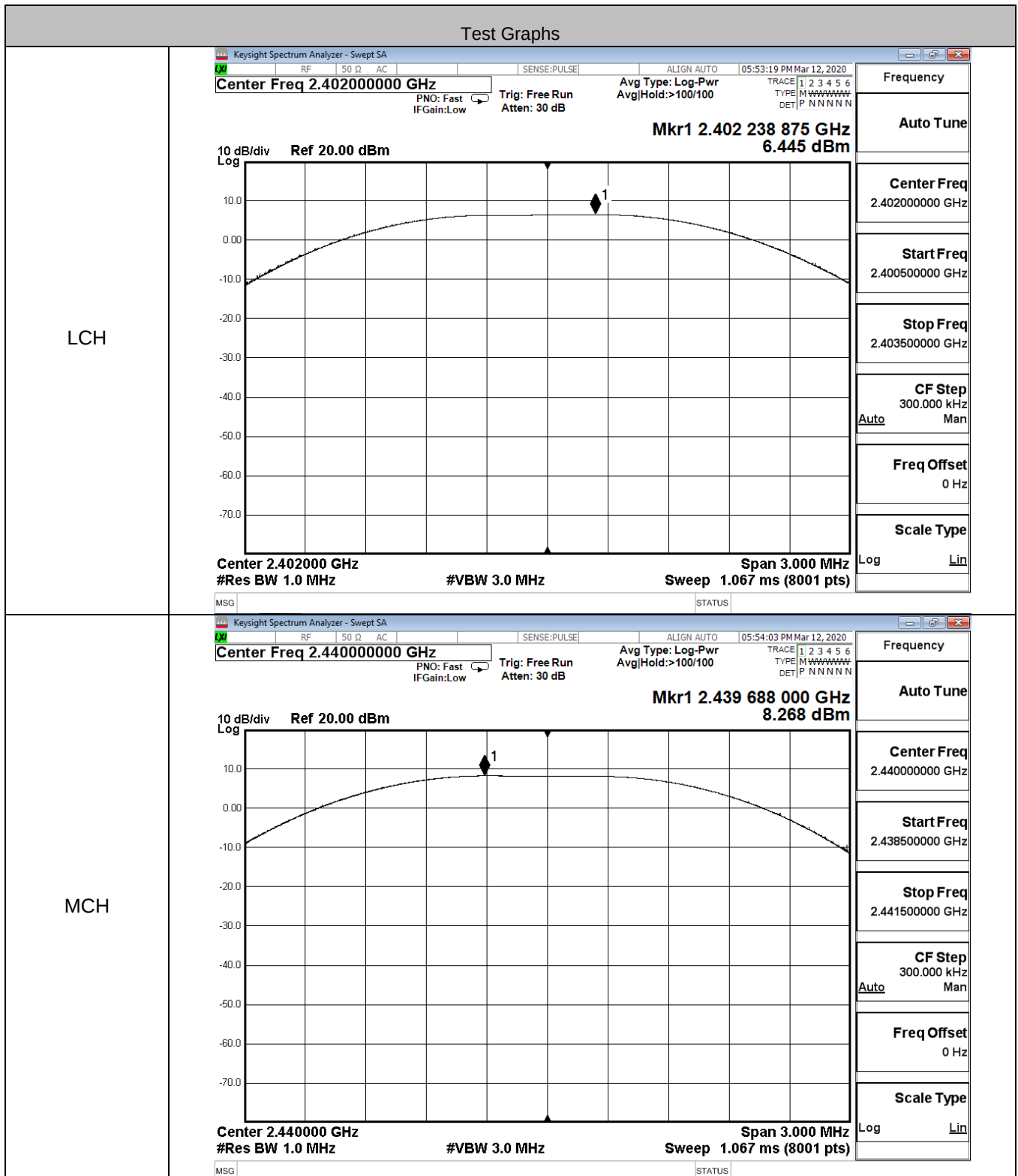
A.1 Duty Cycle

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

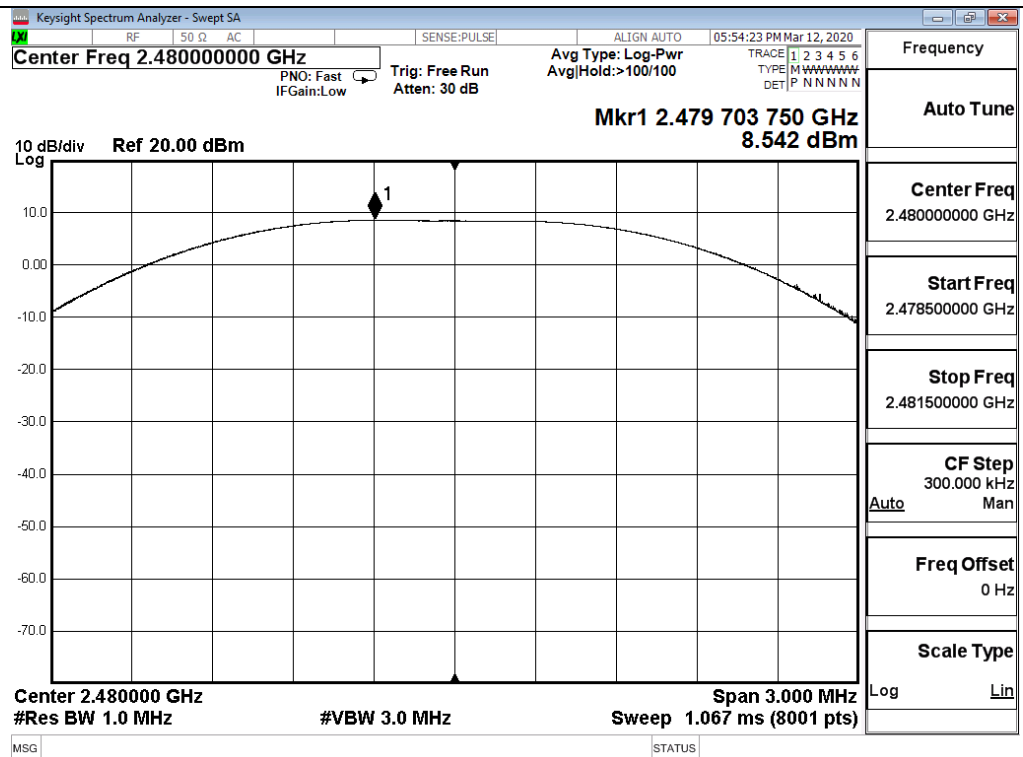


A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	6.445	30	PASS
BT LE	MCH	8.268	30	PASS
BT LE	HCH	8.542	30	PASS

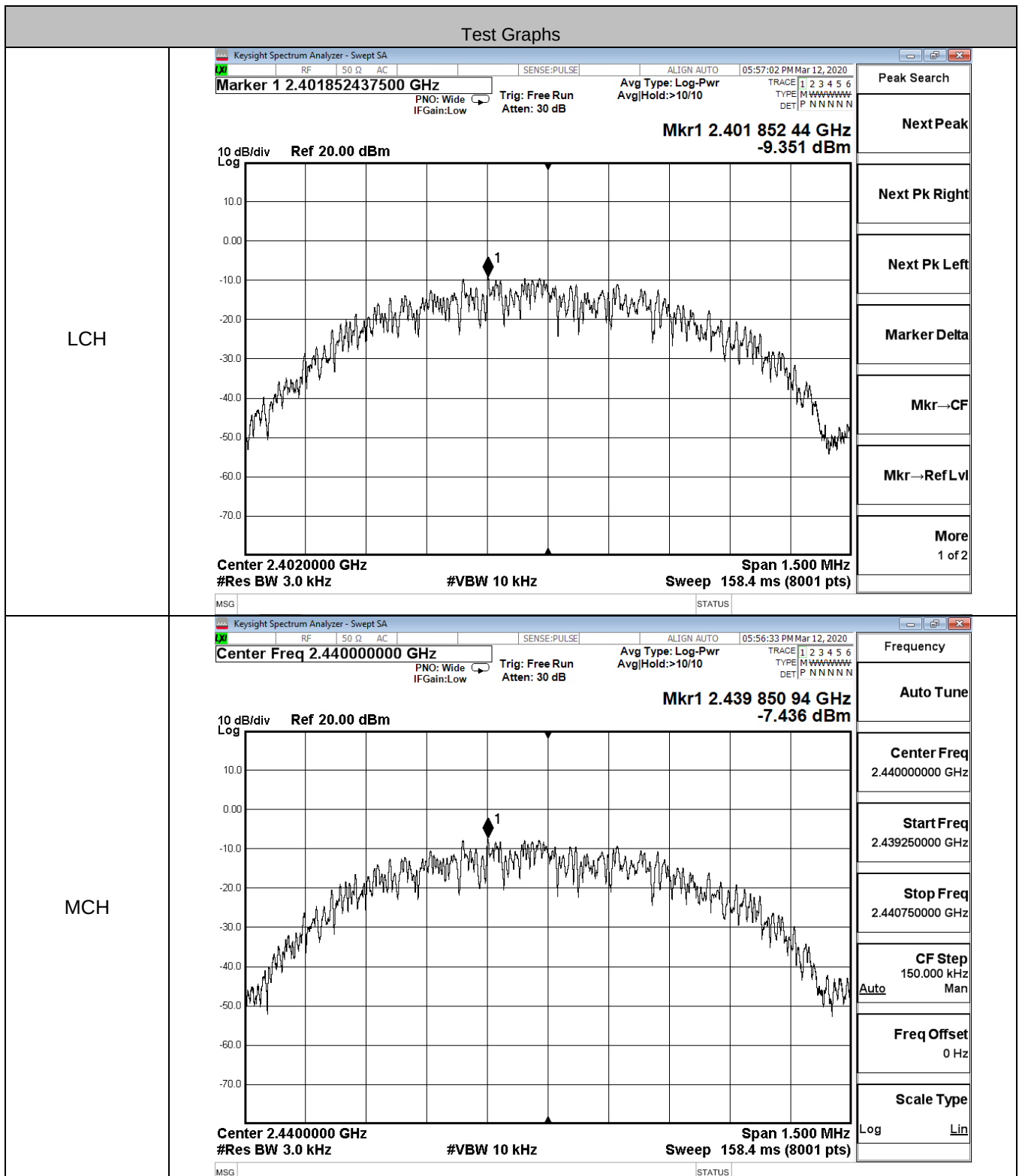


HCH

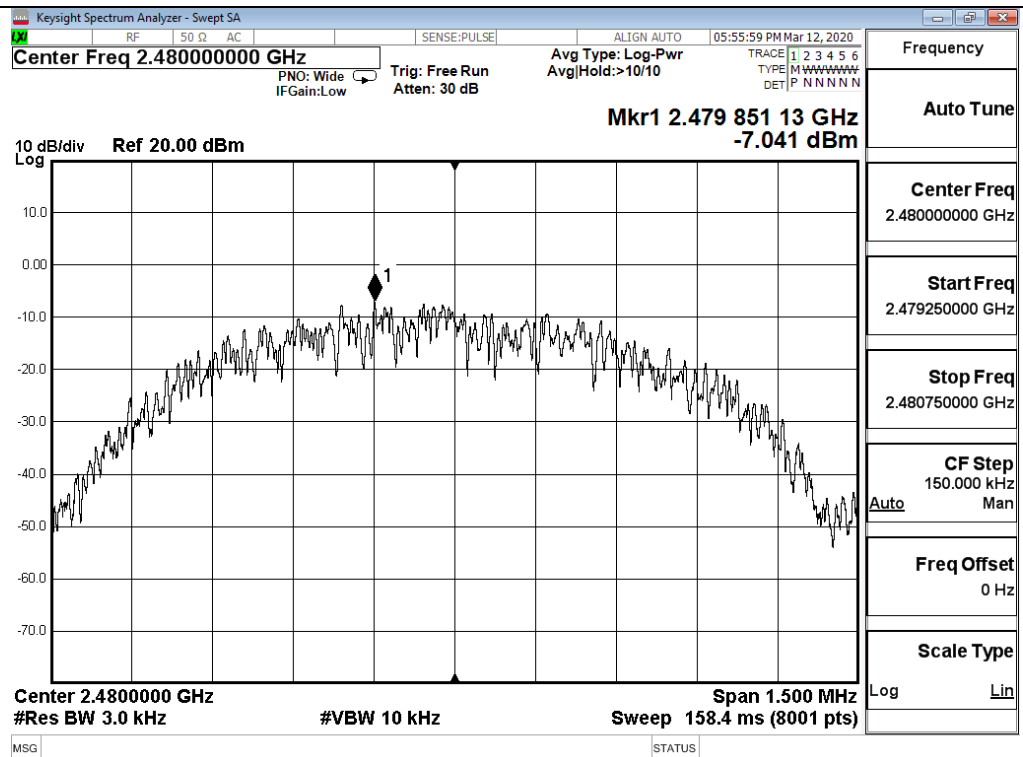


A.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-9.351	8	PASS
BT LE	MCH	-7.436	8	PASS
BT LE	HCH	-7.041	8	PASS

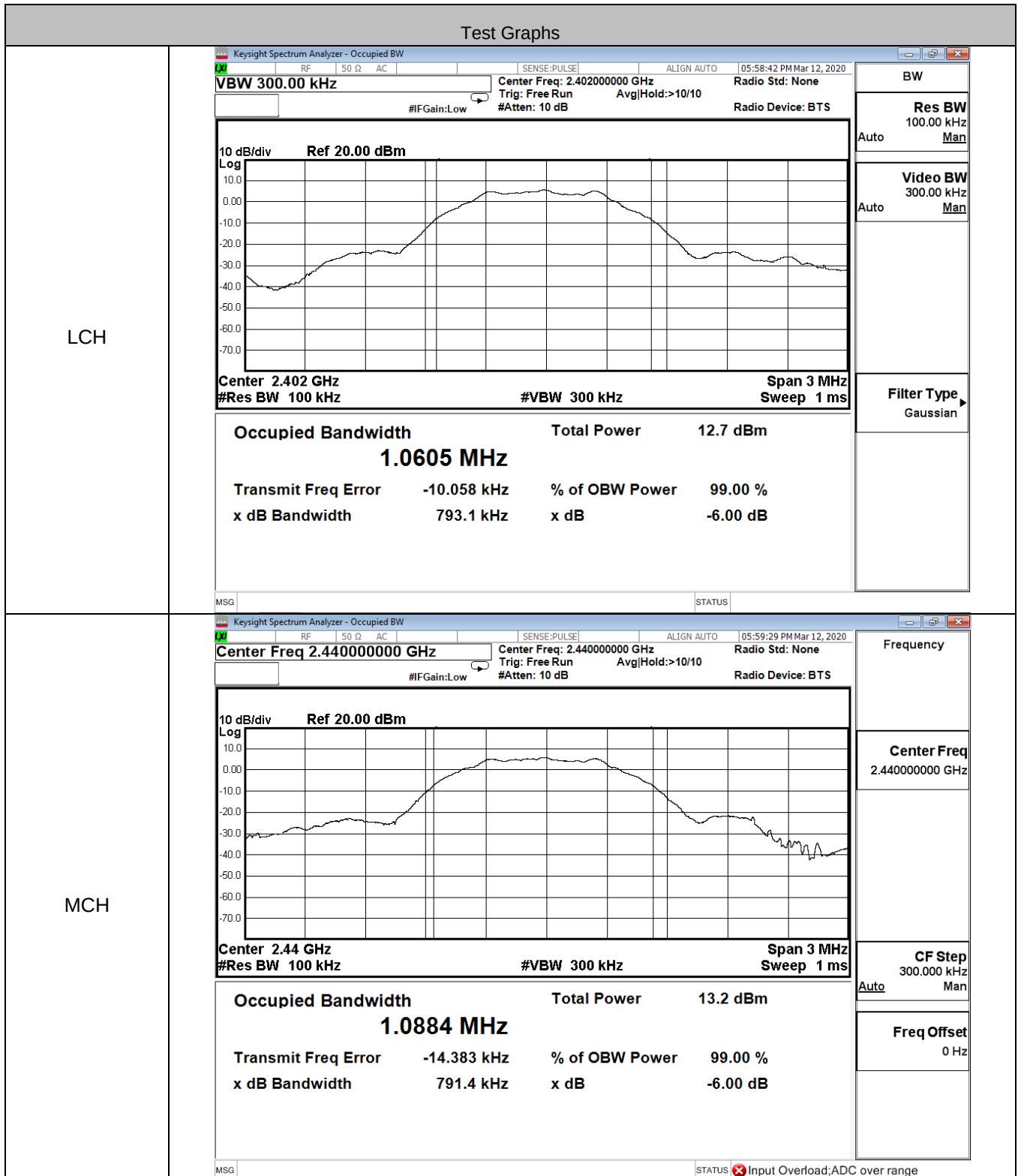


HCH

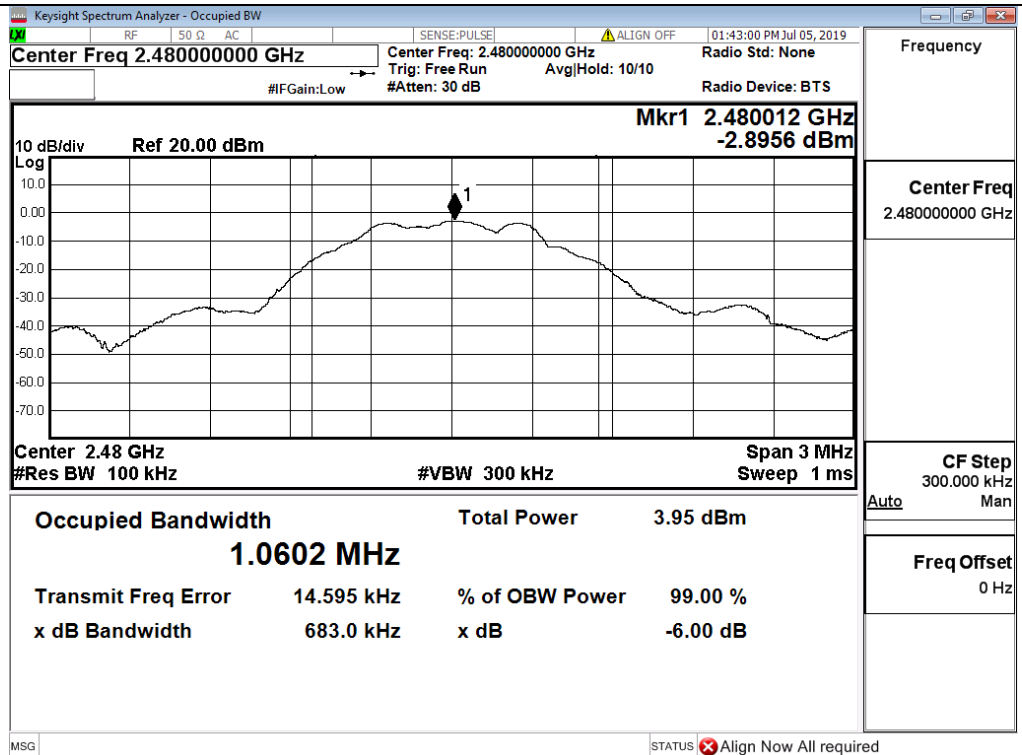


A.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7931	≥ 0.5	PASS
BT LE	MCH	0.7914	≥ 0.5	PASS
BT LE	HCH	0.6830	≥ 0.5	PASS

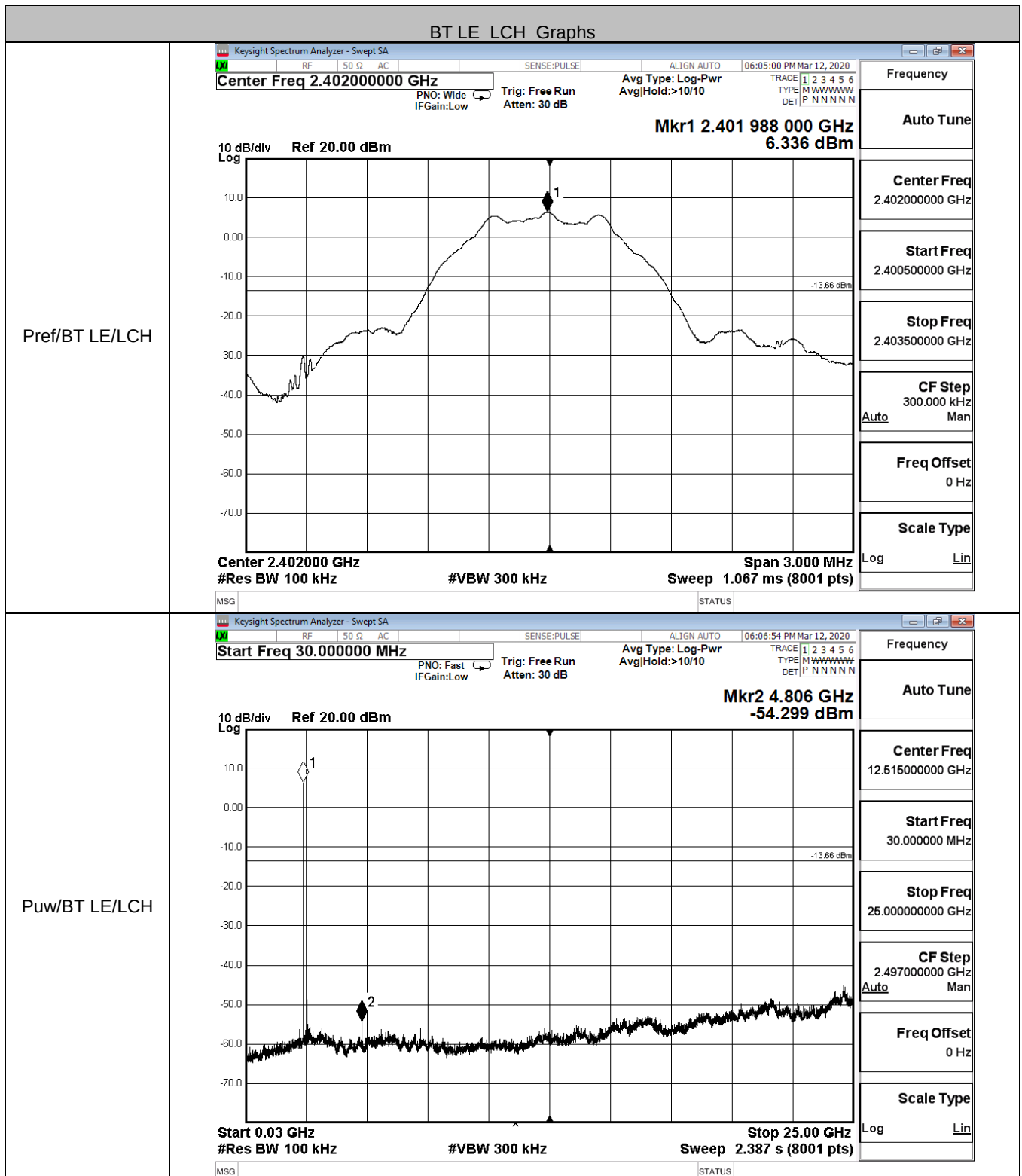


HCH



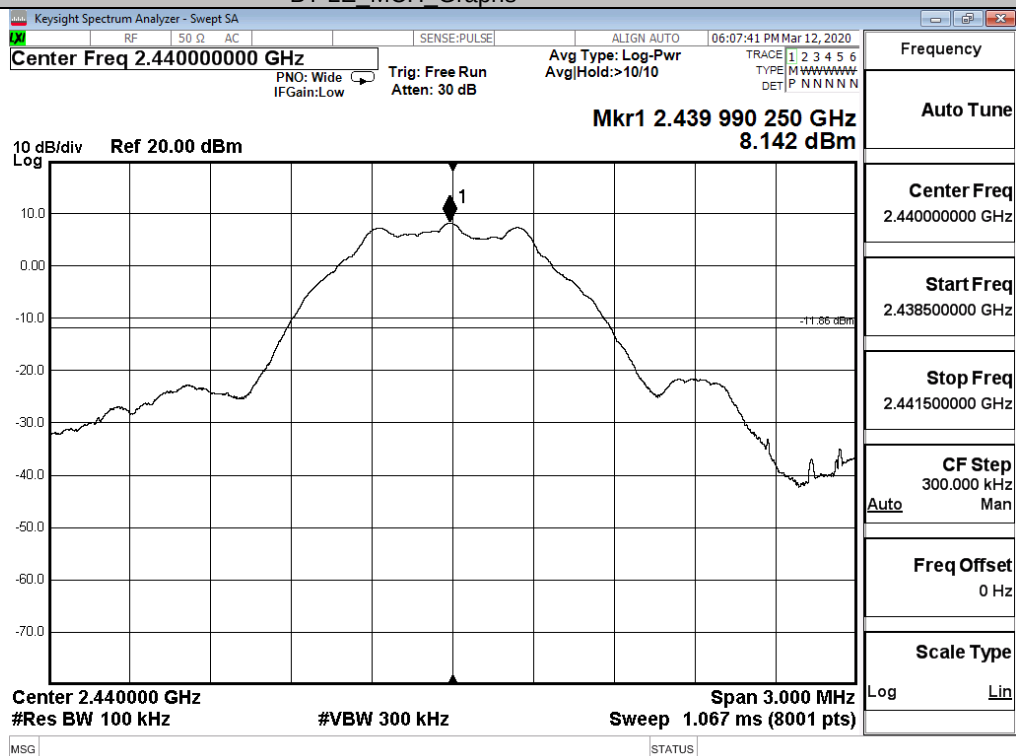
A.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	6.336	-54.299	-13.66	PASS
BT LE	MCH	8.142	-50.787	-11.86	PASS
BT LE	HCH	8.349	-54.533	-11.65	PASS

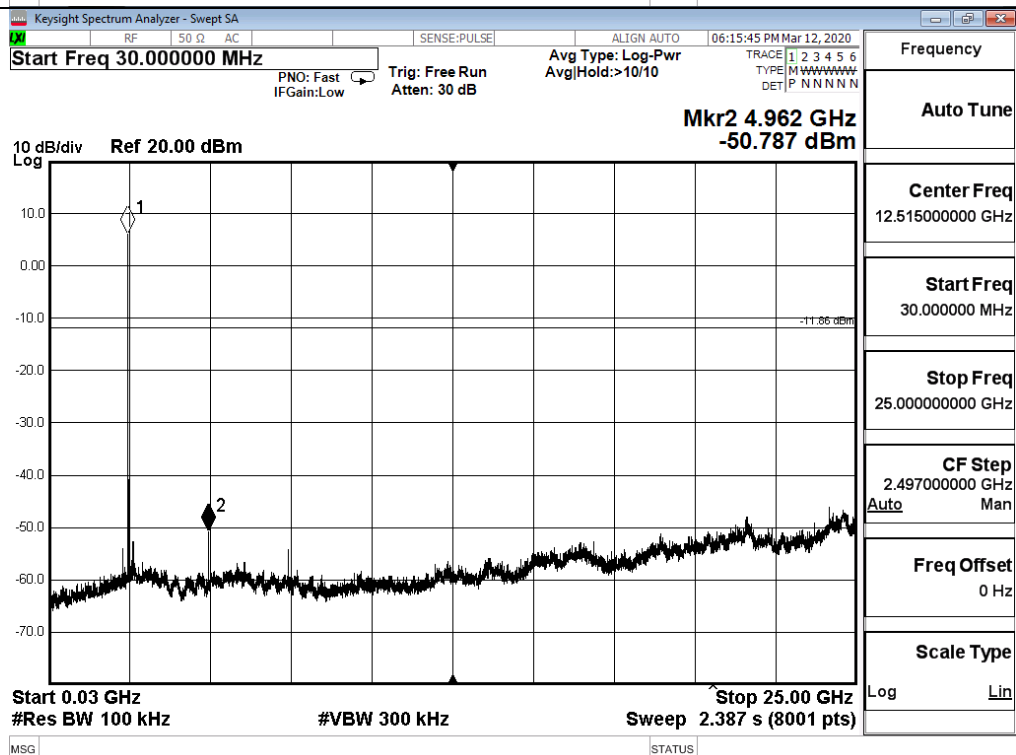


BT LE MCH Graphs

Pref/BT LE/MCH

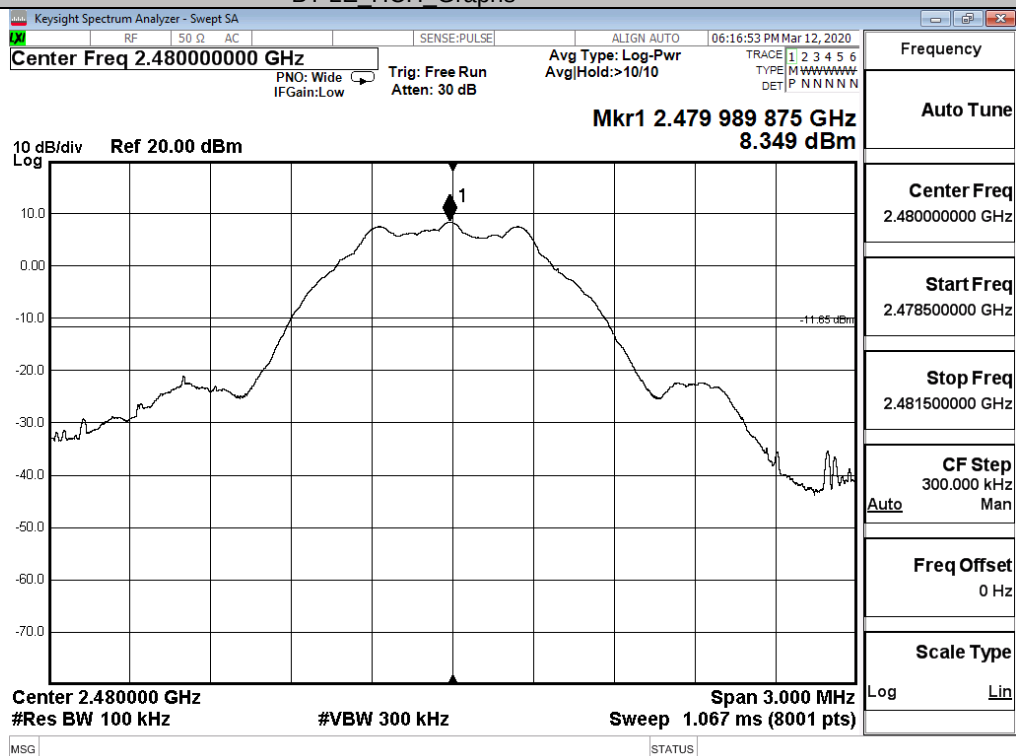


Puw/BT LE/MCH

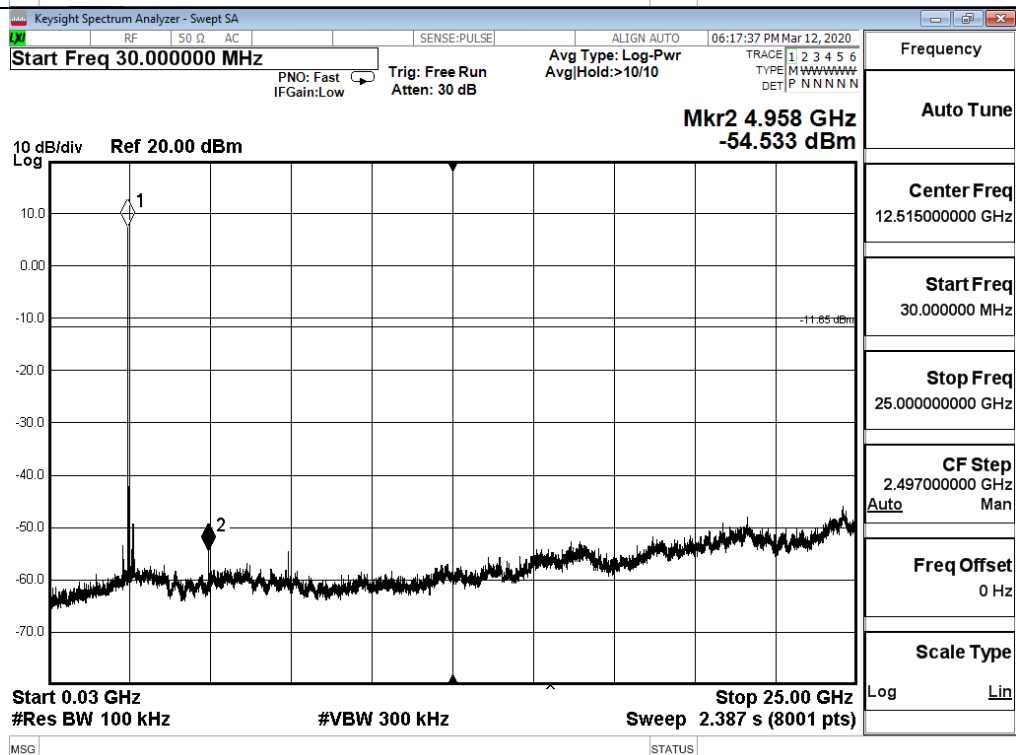


BT LE HCH Graphs

Pref/BT LE/HCH

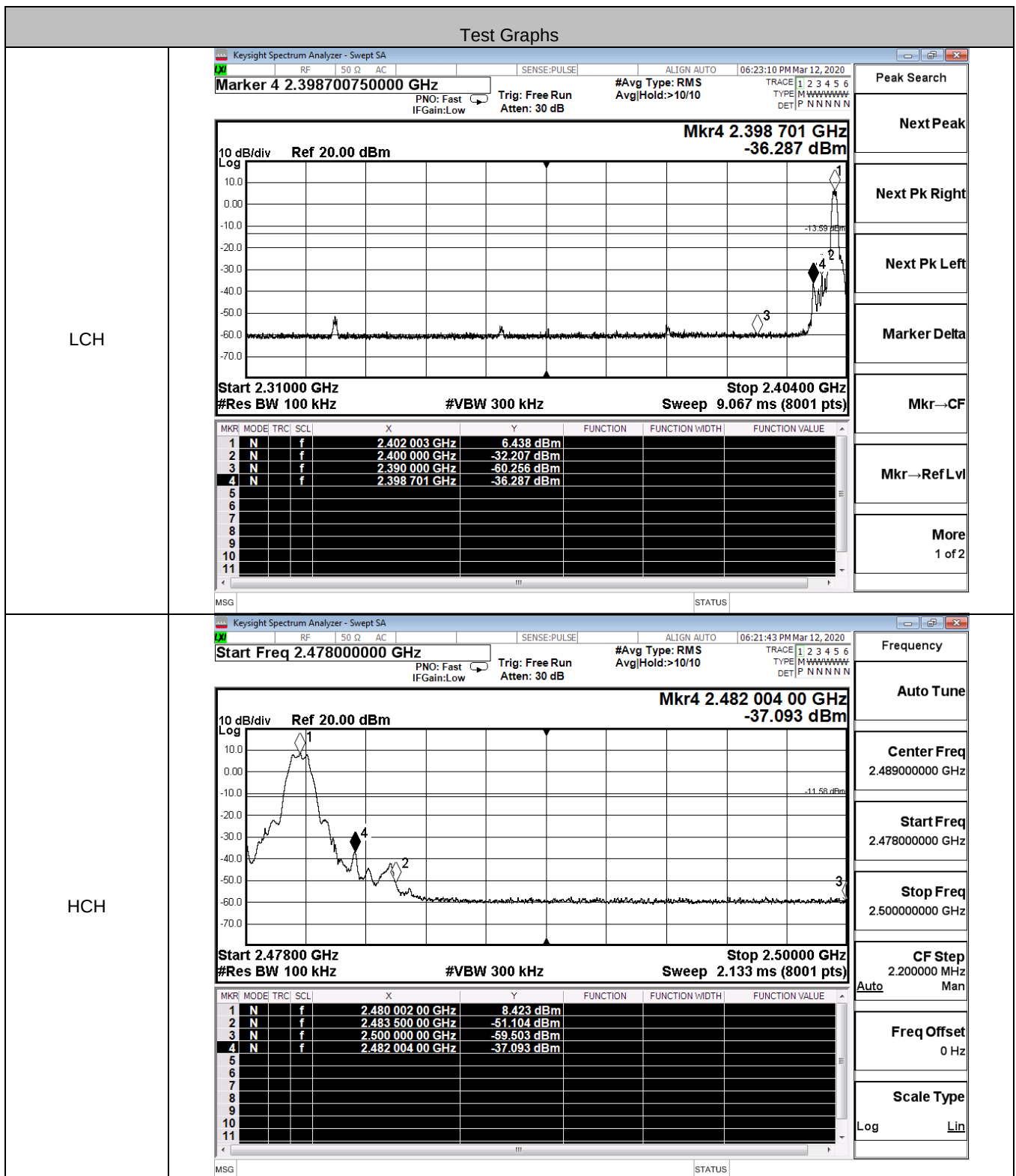


Puw/BT LE/HCH



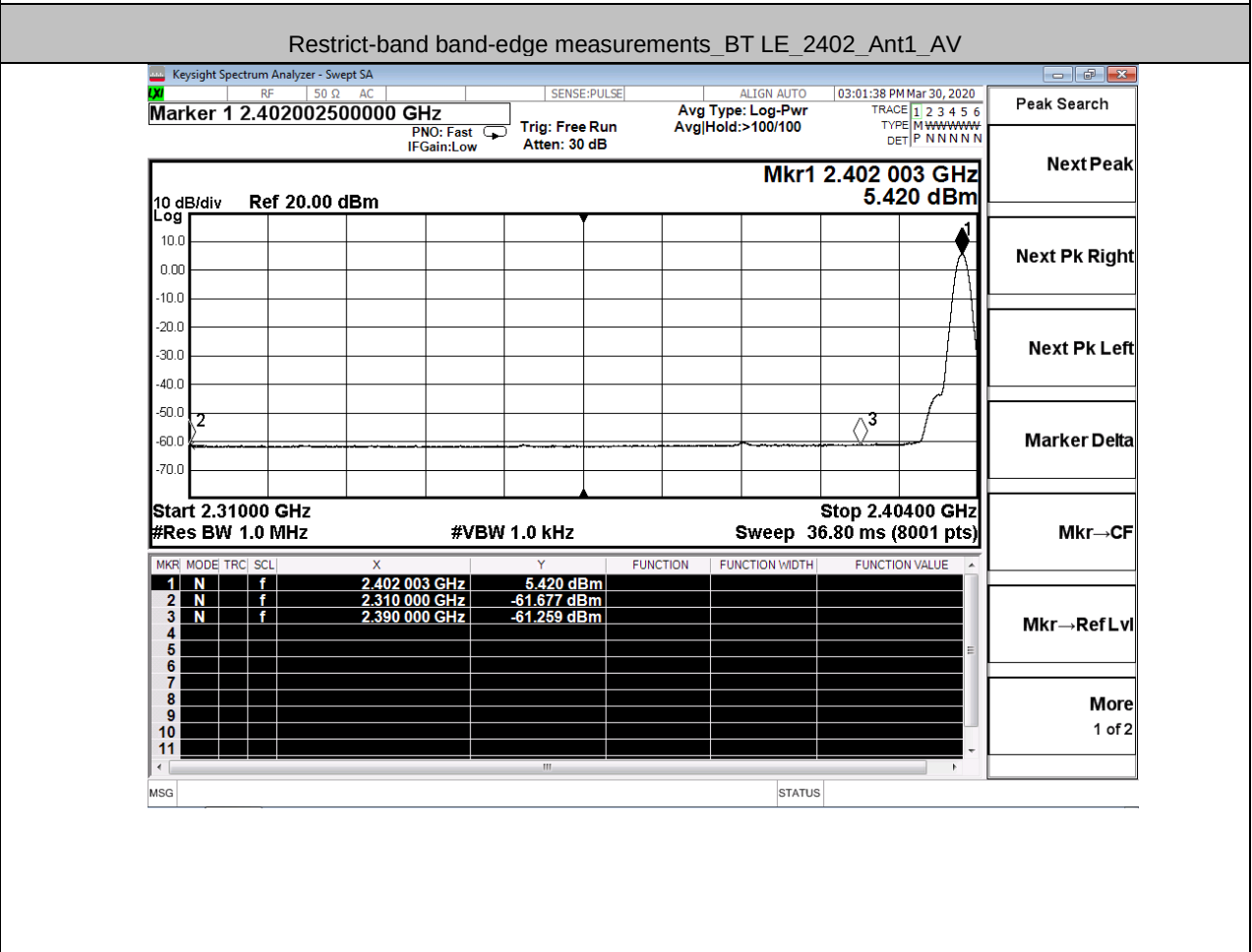
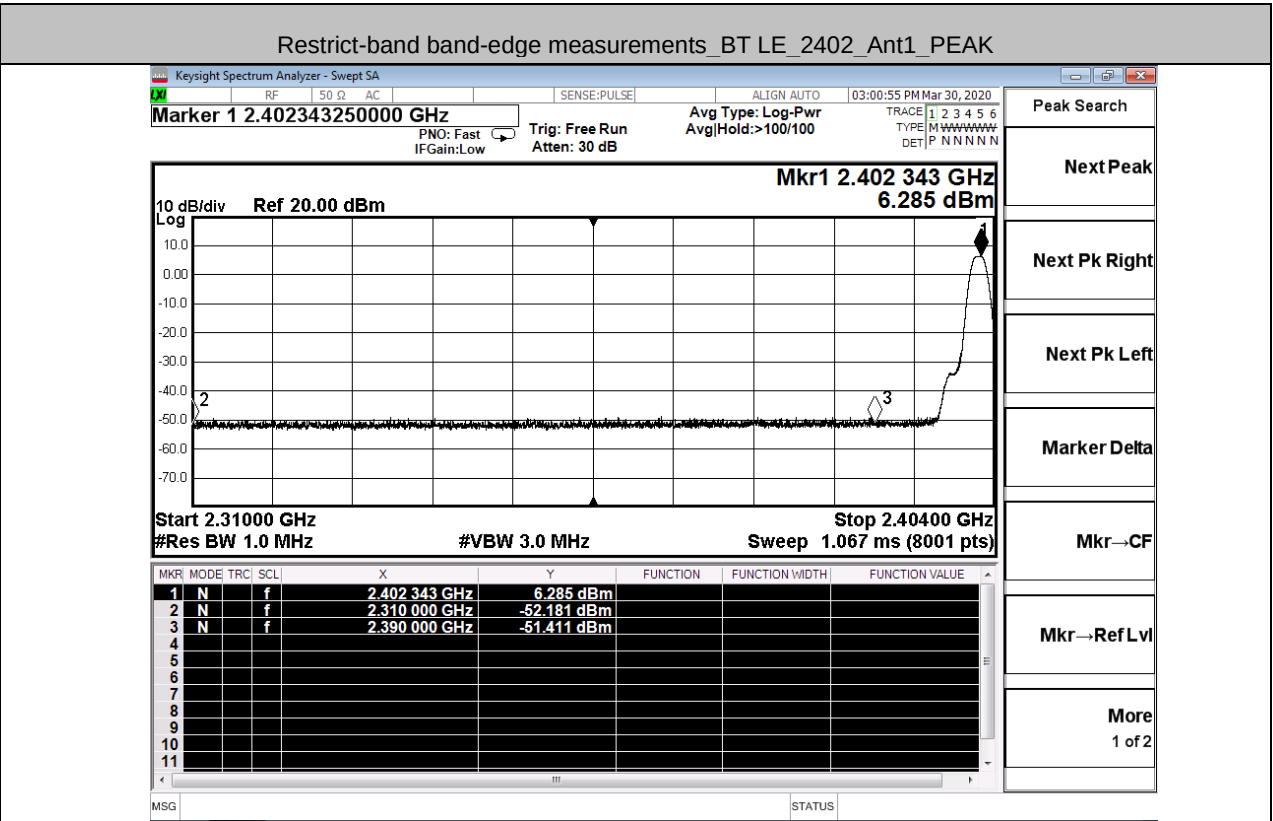
A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	6.438	-36.287	-13.56	PASS
BT LE	HCH	8.423	-37.093	-11.58	PASS

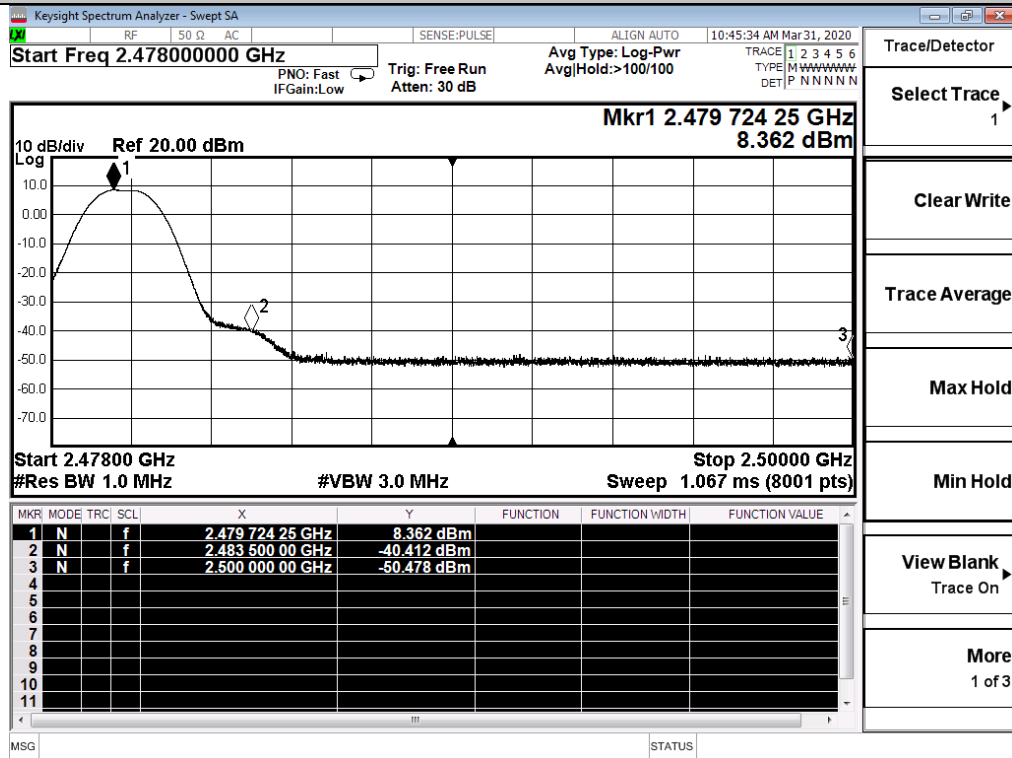


A.7 Restrict-band band-edge measurements

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	-52.181	4	0	47.047	PEAK	74	PASS
		Ant1	2310.0	-61.677	4	0	37.551	AV	54	PASS
		Ant1	2390.0	-51.411	4	0	47.817	PEAK	74	PASS
		Ant1	2390.0	-61.259	4	0	37.969	AV	54	PASS
	2480	Ant1	2483.5	-40.412	4	0	58.816	PEAK	74	PASS
		Ant1	2483.5	-52.128	4	0	47.100	AV	54	PASS
		Ant1	2500.0	-50.478	4	0	48.750	PEAK	74	PASS
		Ant1	2500.0	-61.059	4	0	38.169	AV	54	PASS



Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK



Restrict-band band-edge measurements_BT LE_2480_Ant1_AV

