

Appendix B

RF Test Data for BT V5.0(BDR/EDR) (Conducted Measurement)

Product Name: Bluetooth Speaker

Trade Mark: Origaudio

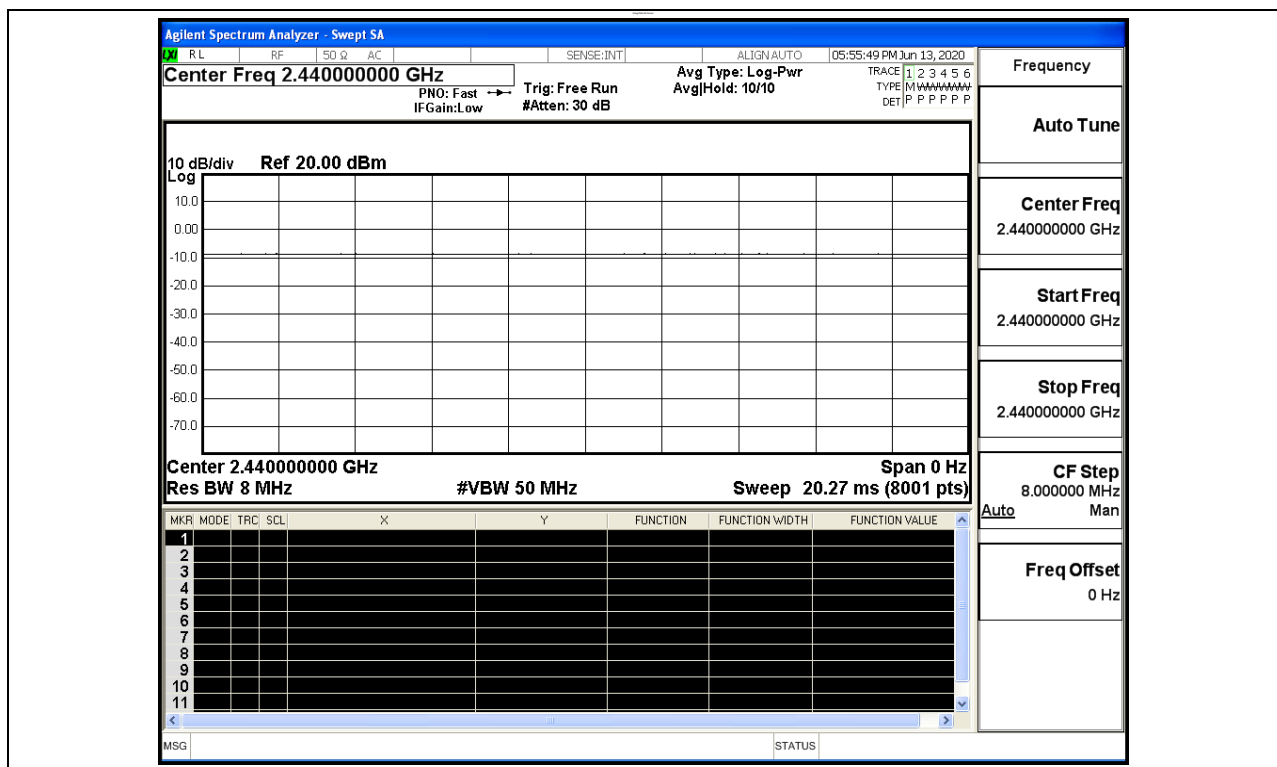
Test Model: Hydrobump

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Scout Wu
Supervised by:	Li Huan

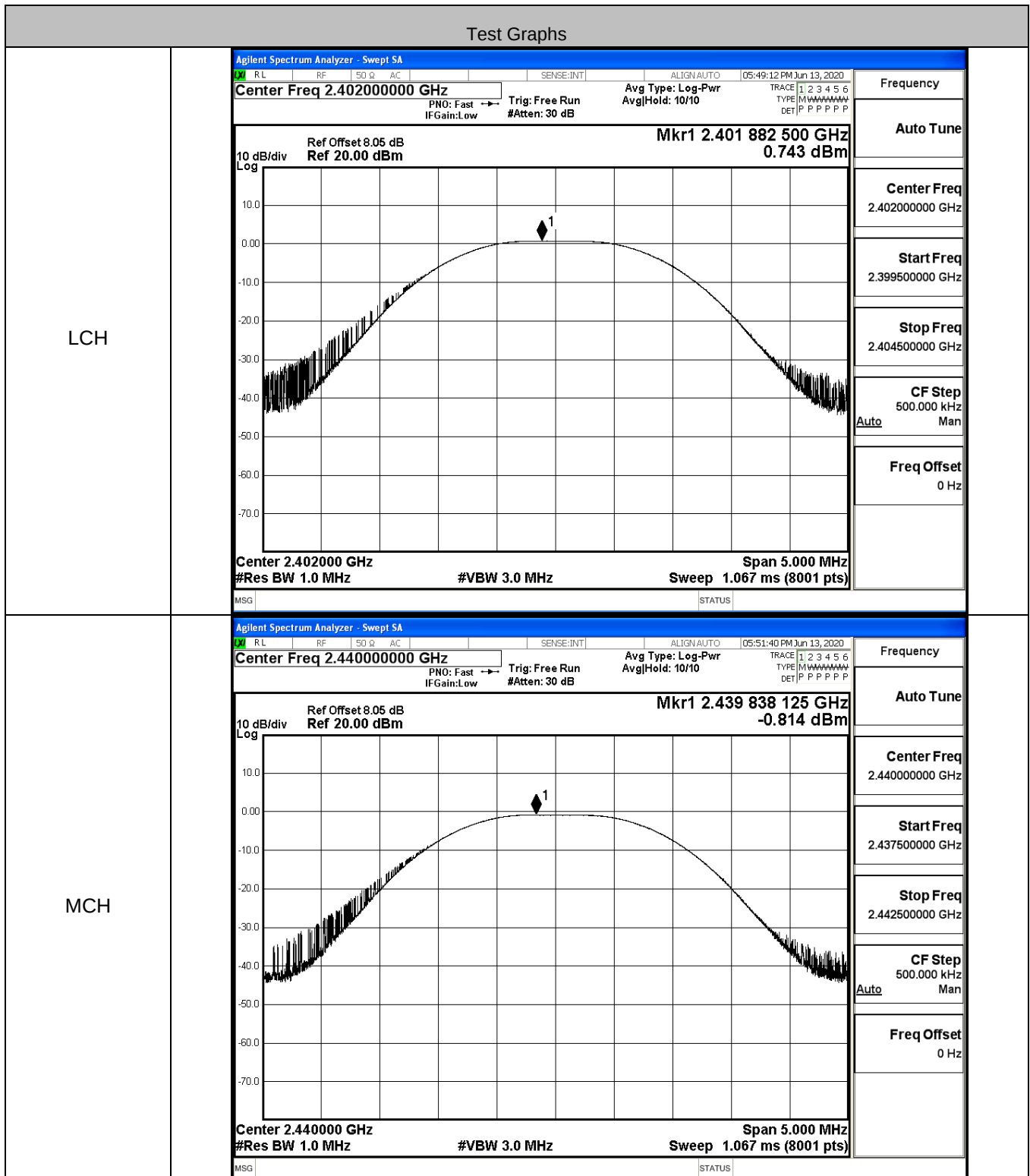
B.1 Duty Cycle

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

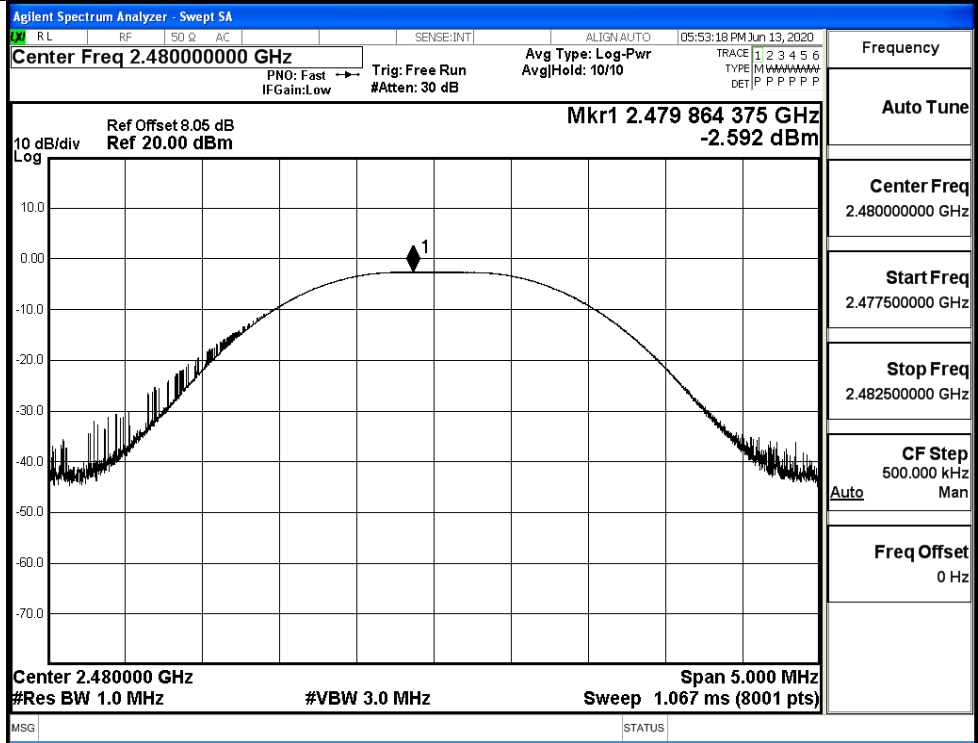


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.743	30	PASS
BT LE	MCH	-0.814	30	PASS
BT LE	HCH	-2.592	30	PASS



HCH

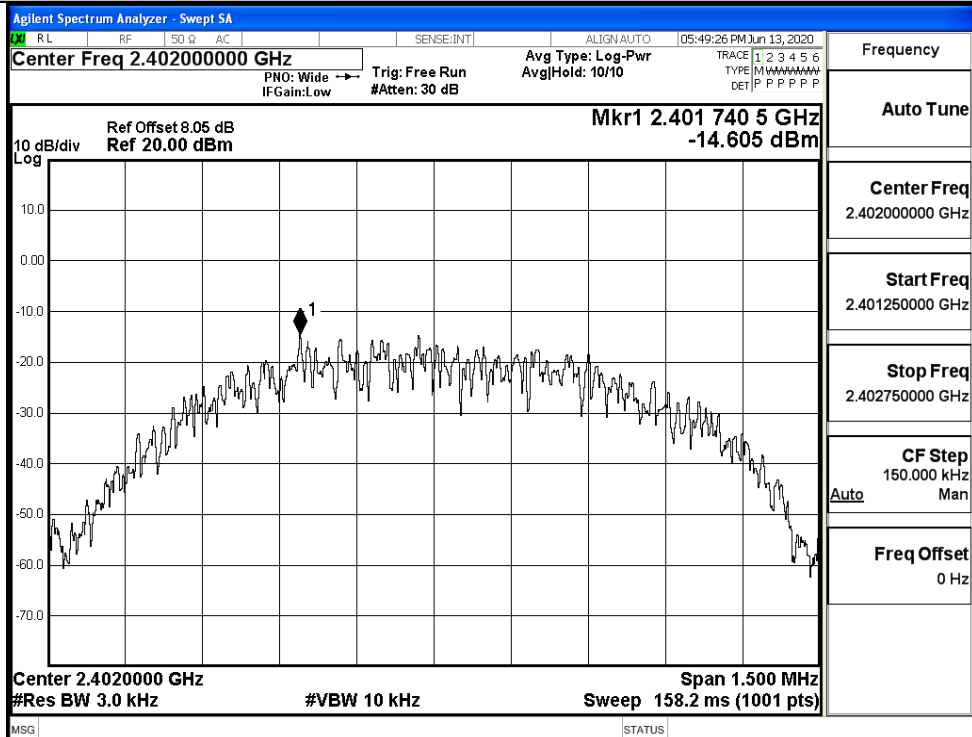


B.3 Maximum Power Spectral Density

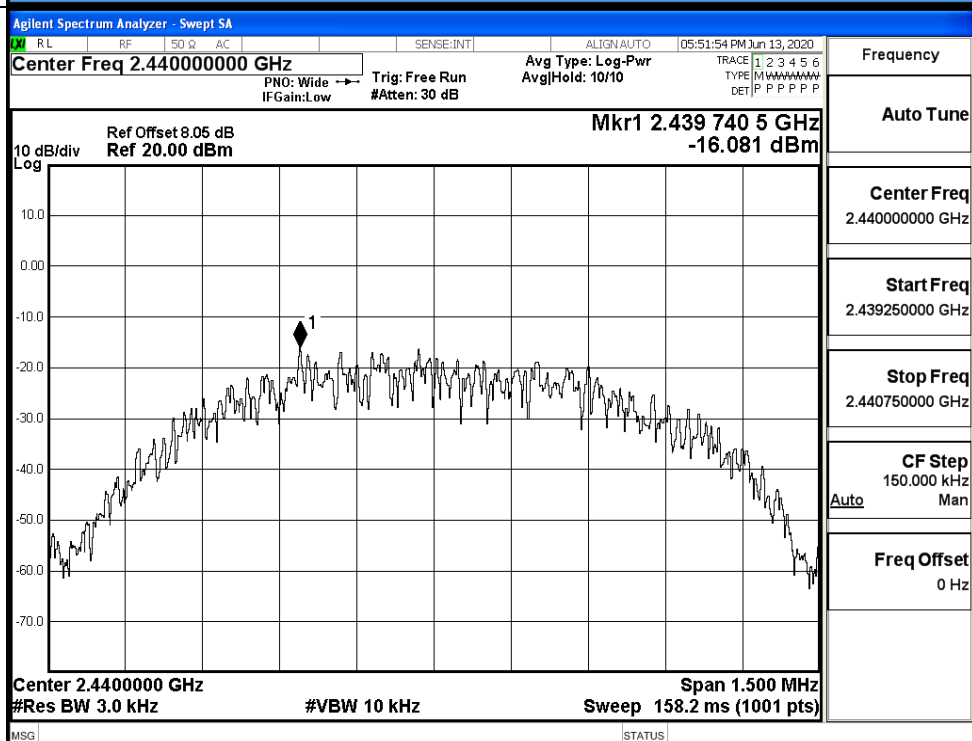
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.605	8	PASS
BT LE	MCH	-16.081	8	PASS
BT LE	HCH	-17.885	8	PASS

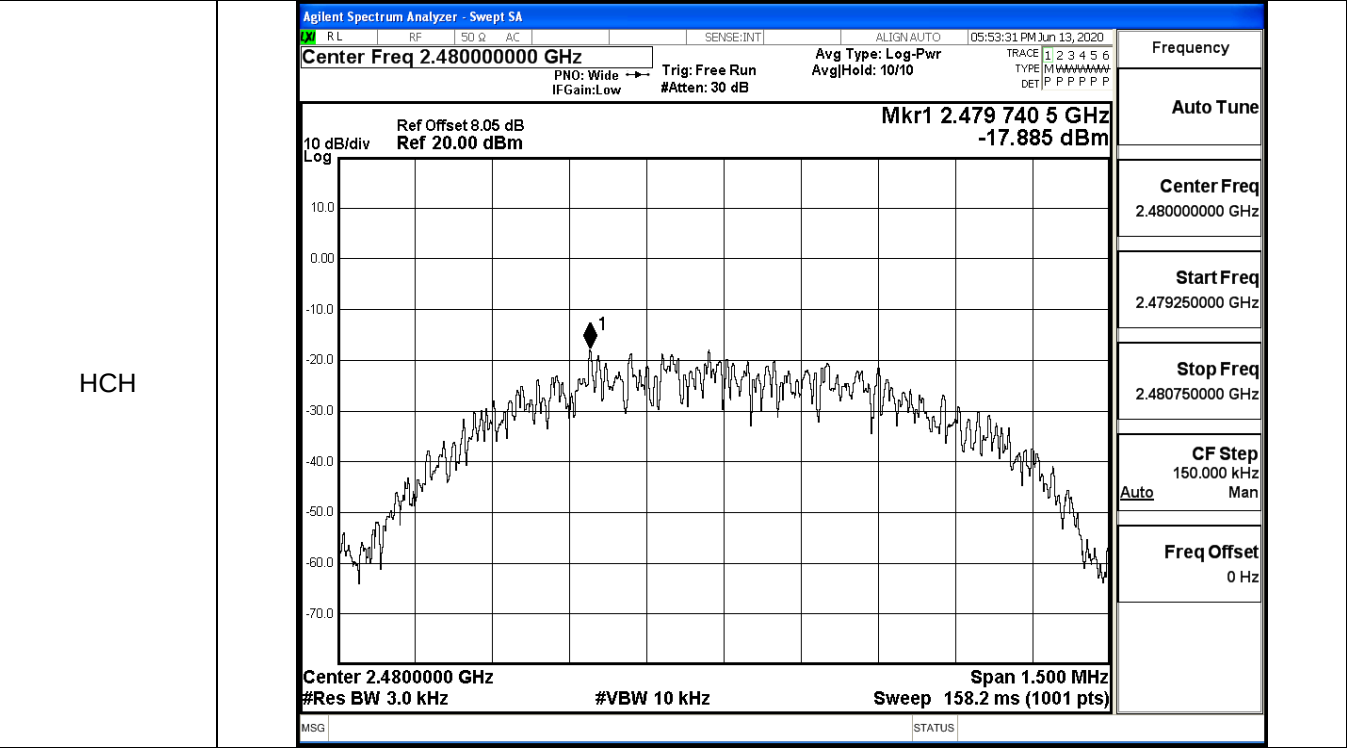
Test Graphs

LCH



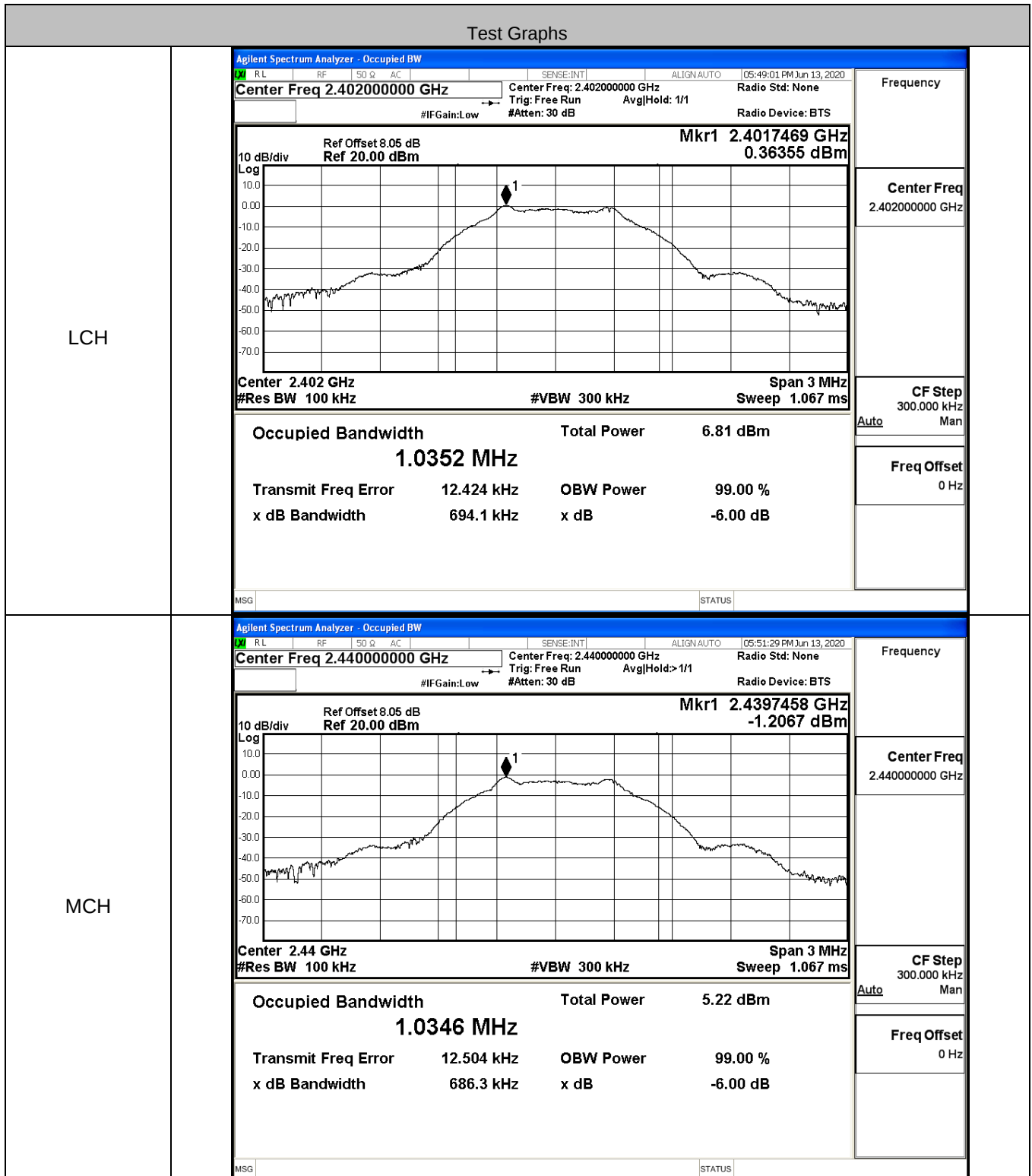
MCH



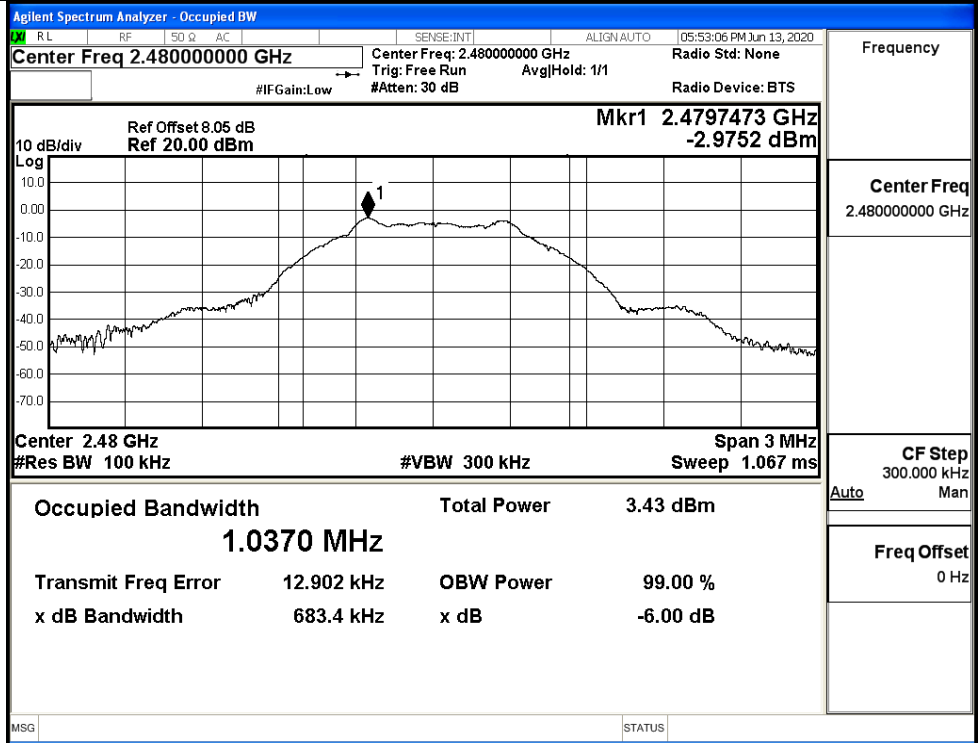


B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6941	≥ 0.5	PASS
BT LE	MCH	0.6863	≥ 0.5	PASS
BT LE	HCH	0.6834	≥ 0.5	PASS

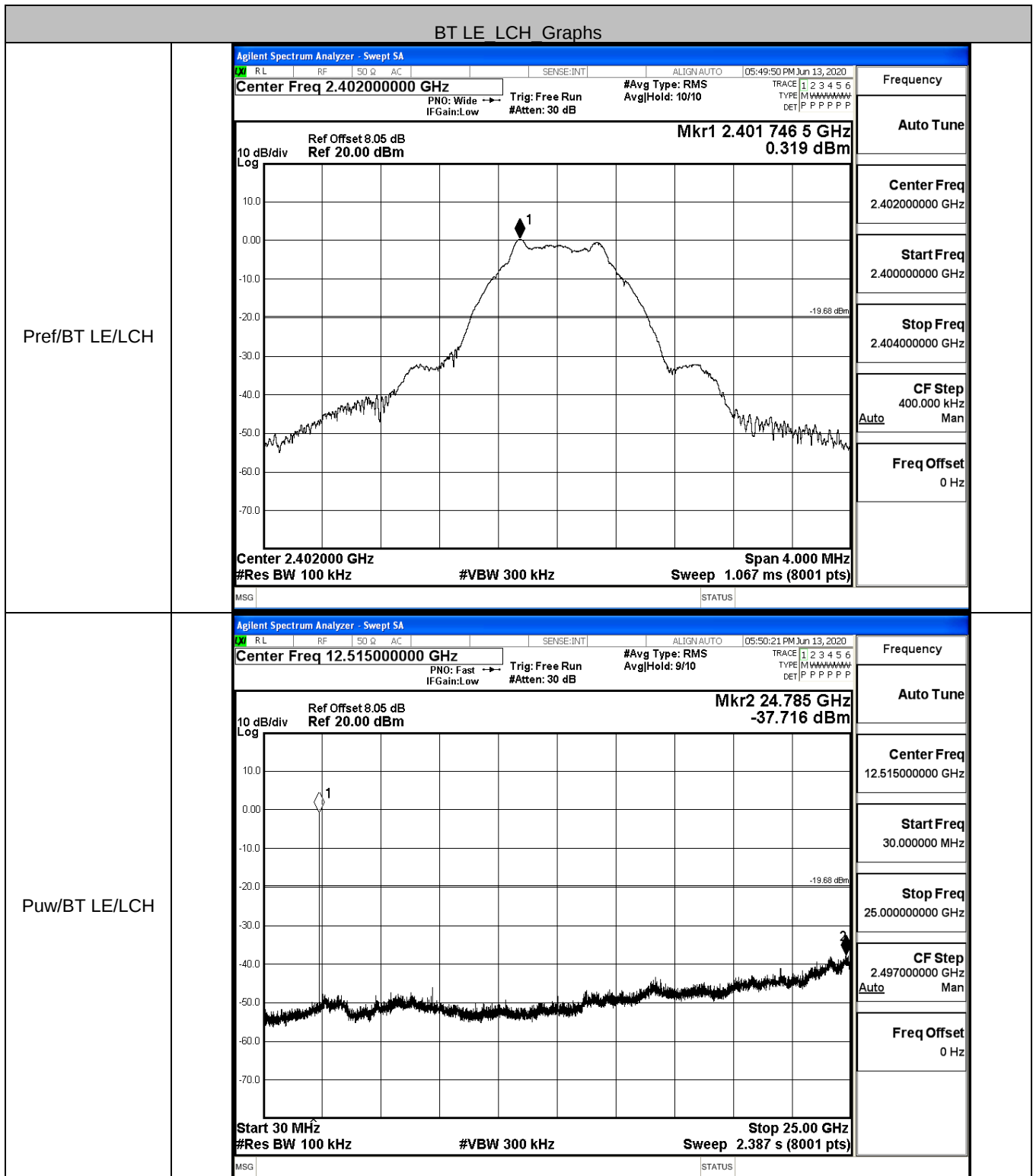


HCH



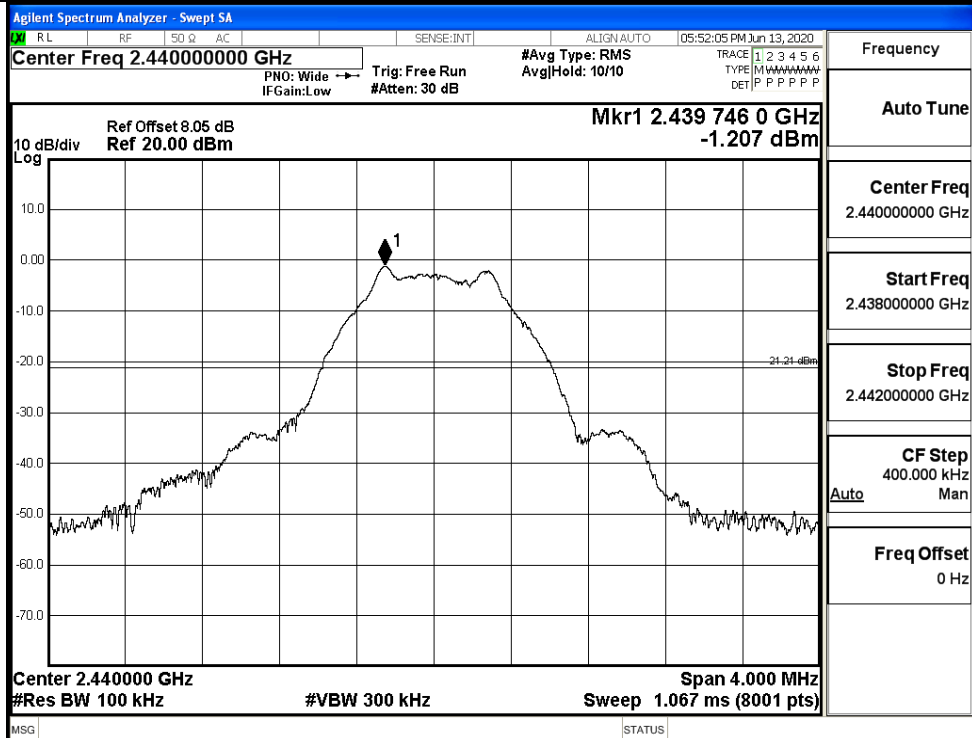
B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.319	-37.716	-19.681	PASS
BT LE	MCH	-1.207	-37.239	-21.207	PASS
BT LE	HCH	-2.975	-36.293	-22.975	PASS

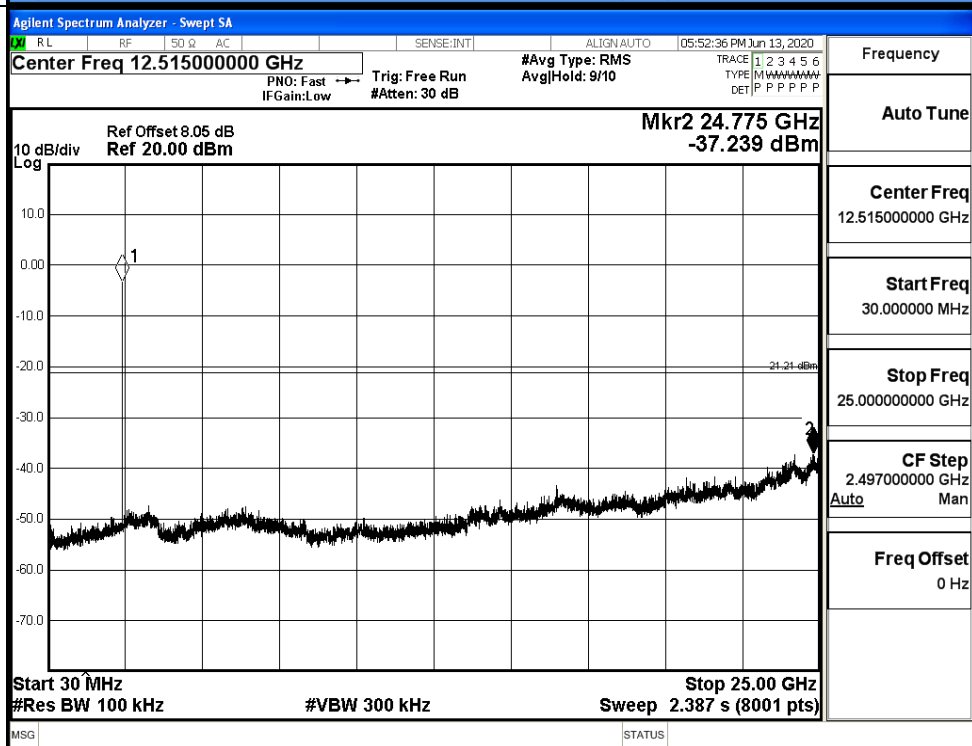


BT LE MCH Graphs

Pref/BT LE/MCH

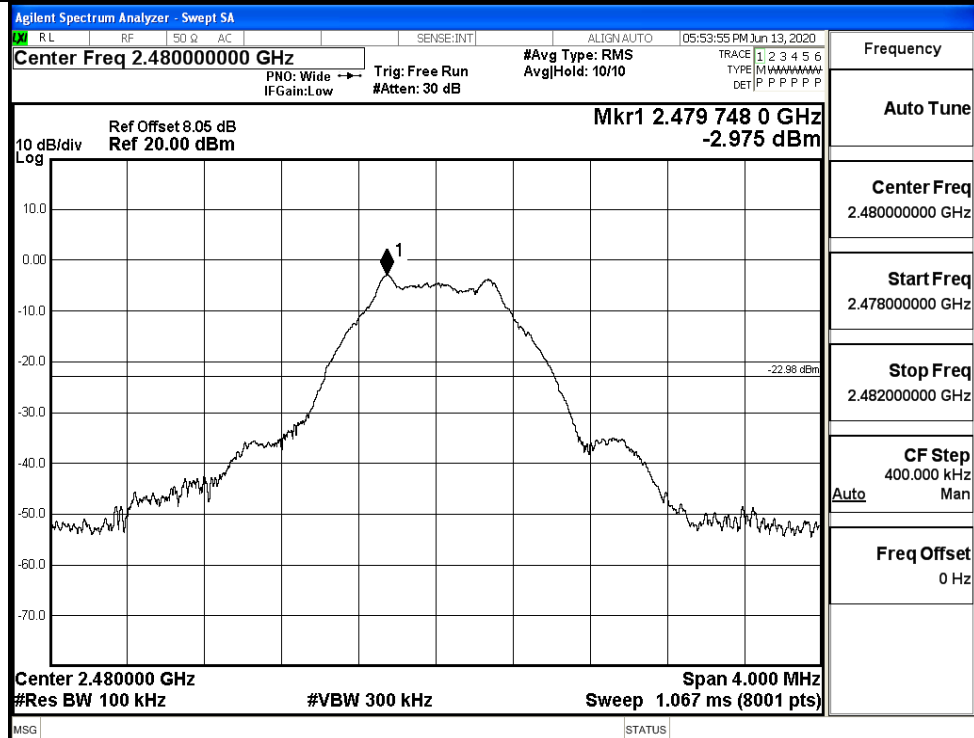


Puw/BT LE/MCH

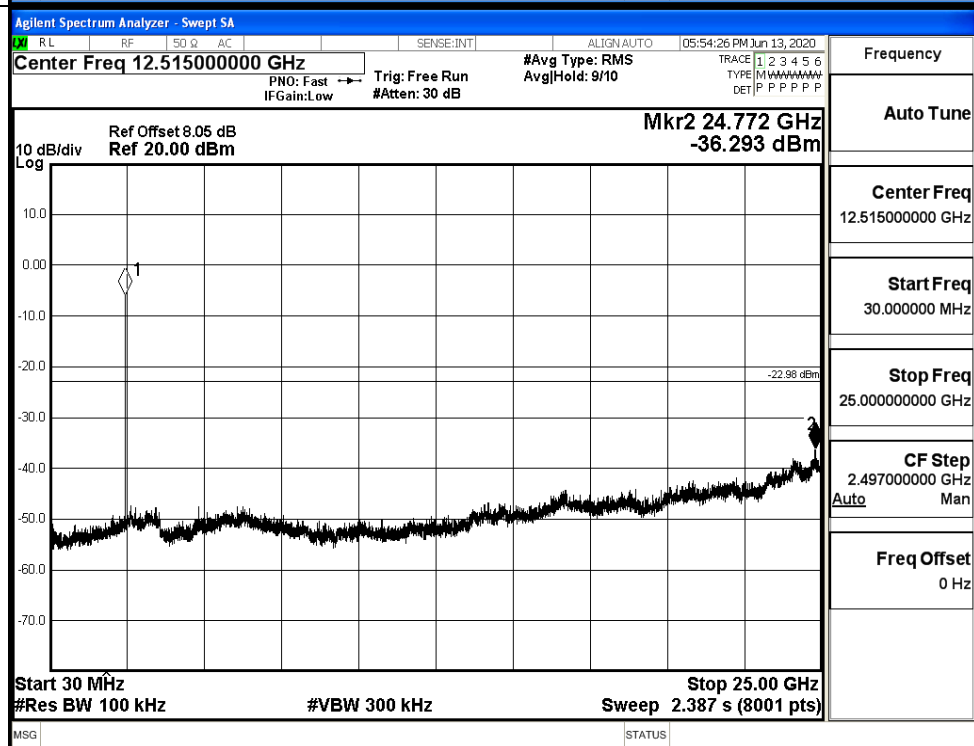


BT LE HCH Graphs

Pref/BT LE/HCH

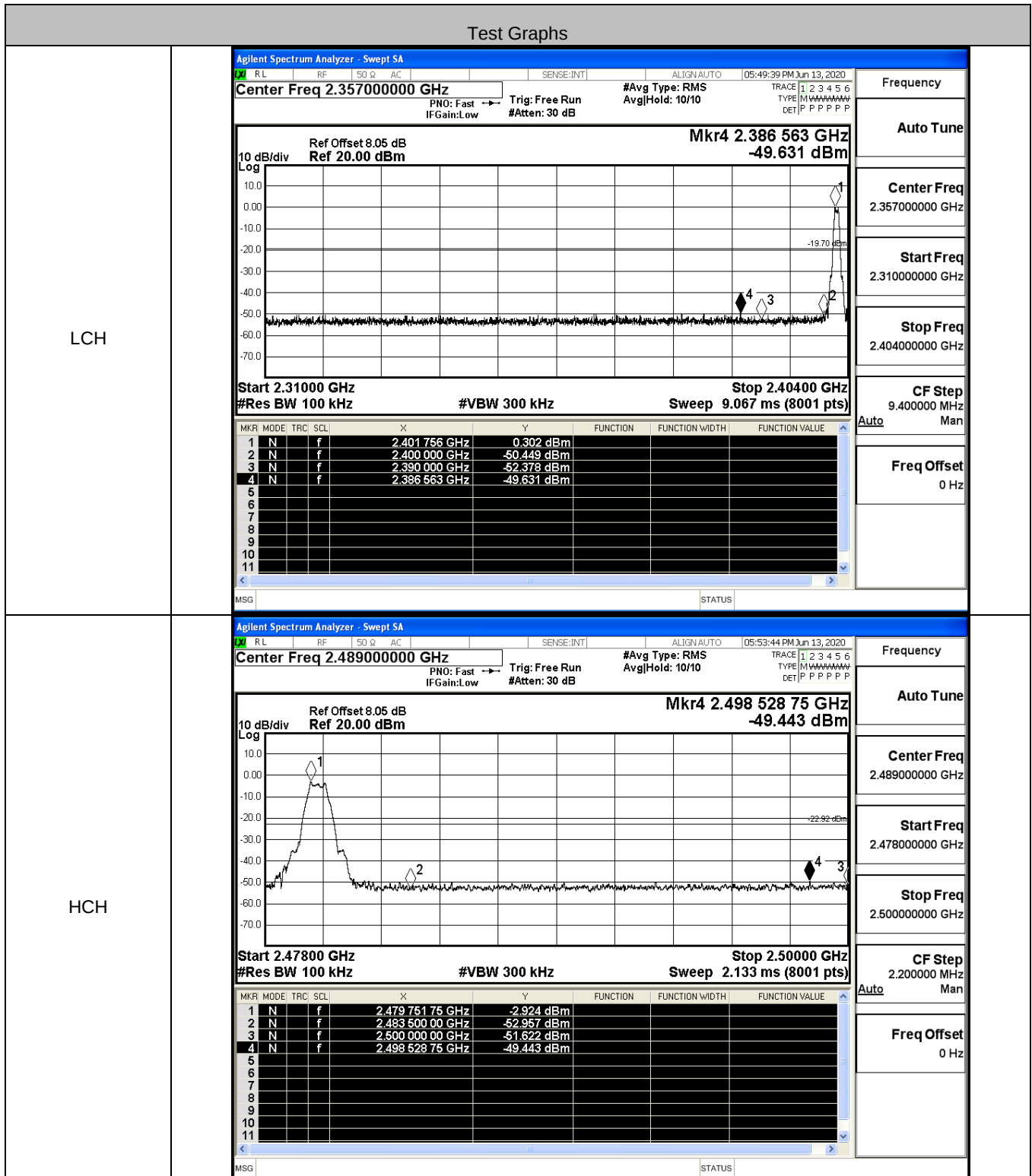


Puw/BT LE/HCH



B.6 Band-edge for RF Conducted Emissions

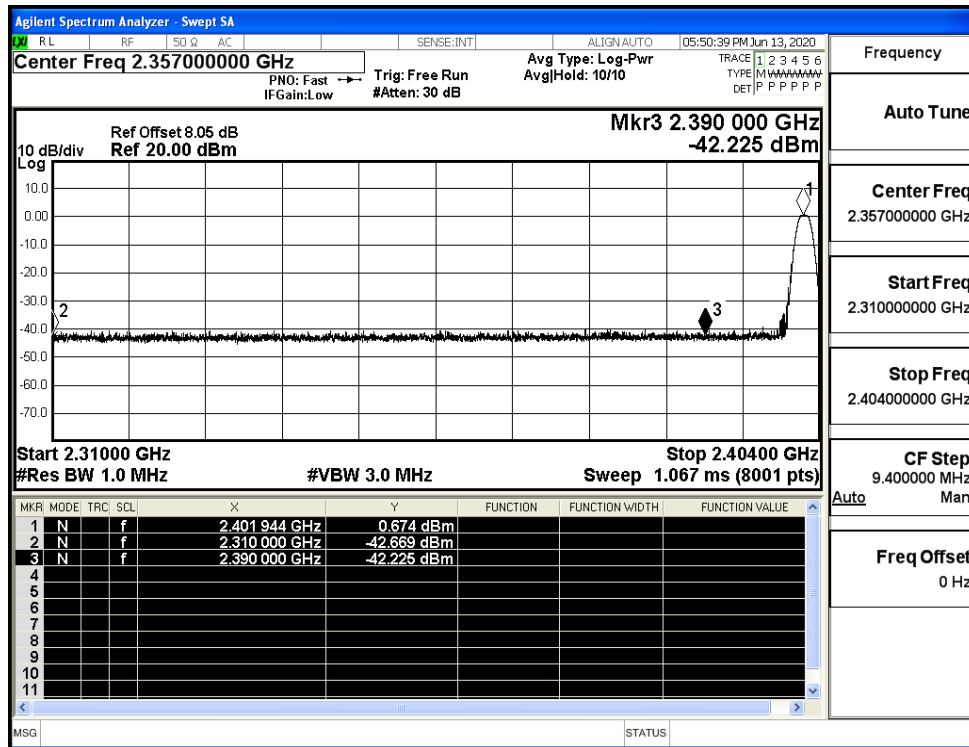
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.302	-49.631	-19.7	PASS
BT LE	HCH	-2.924	-49.443	-22.92	PASS



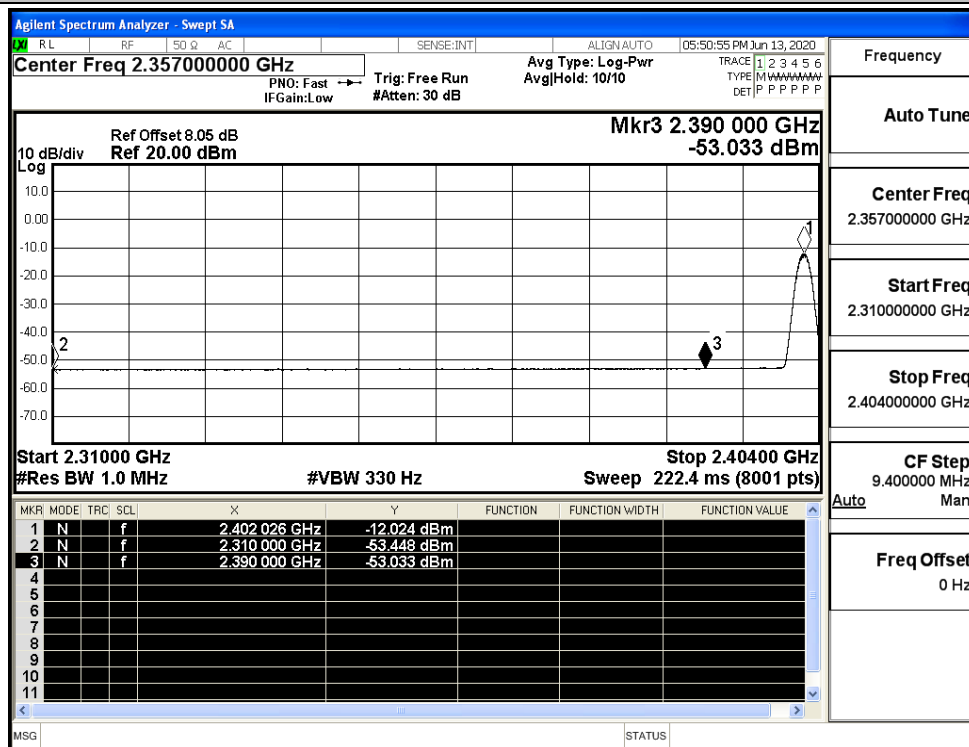
B.7 Restrict-band band-edge measurements

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	-42.67	2.0	0	54.59	PEAK	74	PASS
		Ant1	2310.0	-53.45	2.0	0	43.81	AV	54	PASS
		Ant1	2390.0	-42.23	2.0	0	55.03	PEAK	74	PASS
		Ant1	2390.0	-53.03	2.0	0	44.23	AV	54	PASS
	2480	Ant1	2483.5	-41.73	2.0	0	55.53	PEAK	74	PASS
		Ant1	2483.5	-52.51	2.0	0	44.75	AV	54	PASS
		Ant1	2500.0	-43.97	2.0	0	53.29	PEAK	74	PASS
		Ant1	2500.0	-52.37	2.0	0	44.89	AV	54	PASS

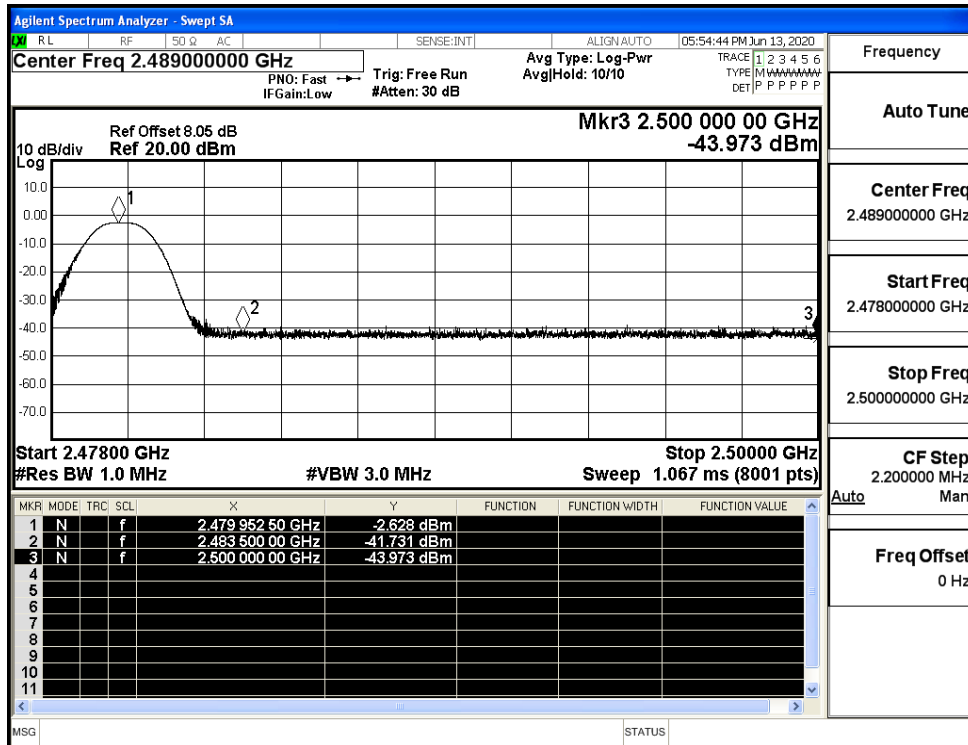
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

