

Appendix B

RF Test Data for BT V4.0 (BT LE) (Conducted Measurement)

Product Name: All-in-One PC

Trade Mark: 

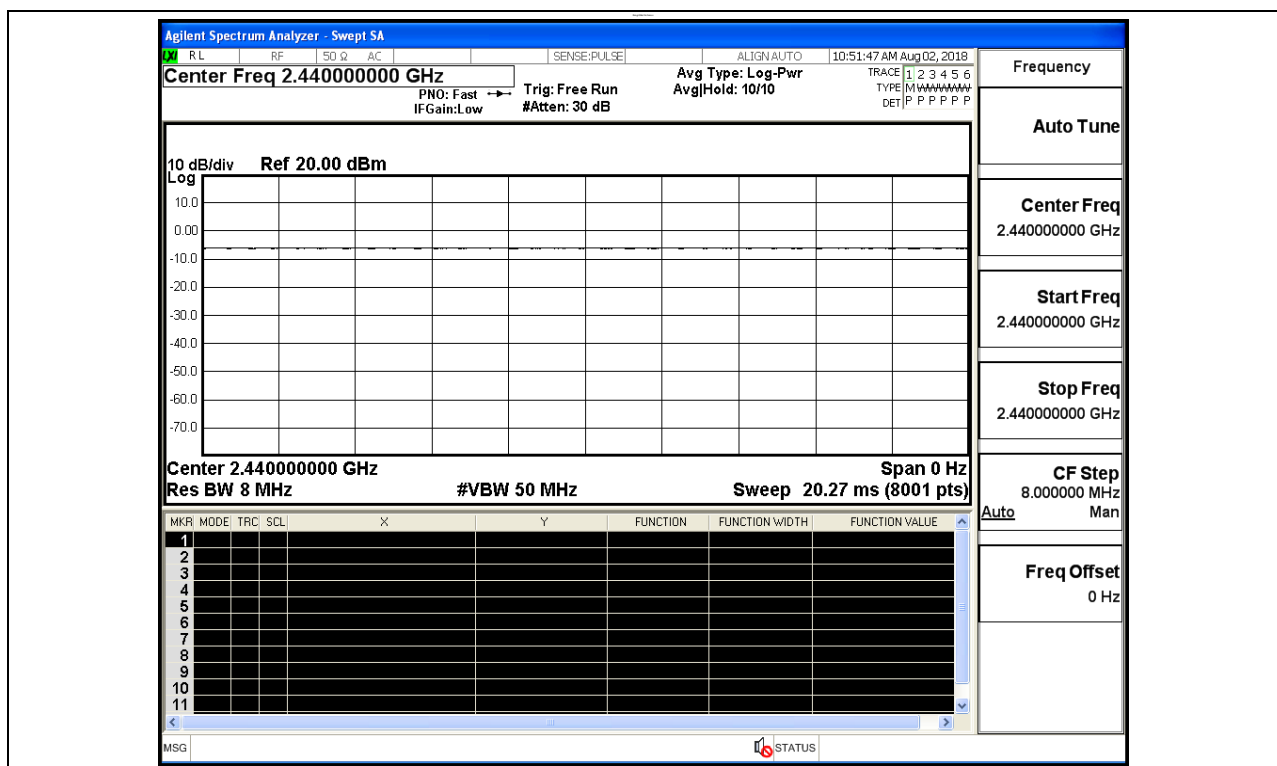
Test Model: EV-AIO-185-1

Environmental Conditions

Temperature:	24.6 ° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Wilson.Hong
Supervised by:	Jayden.Zhuo

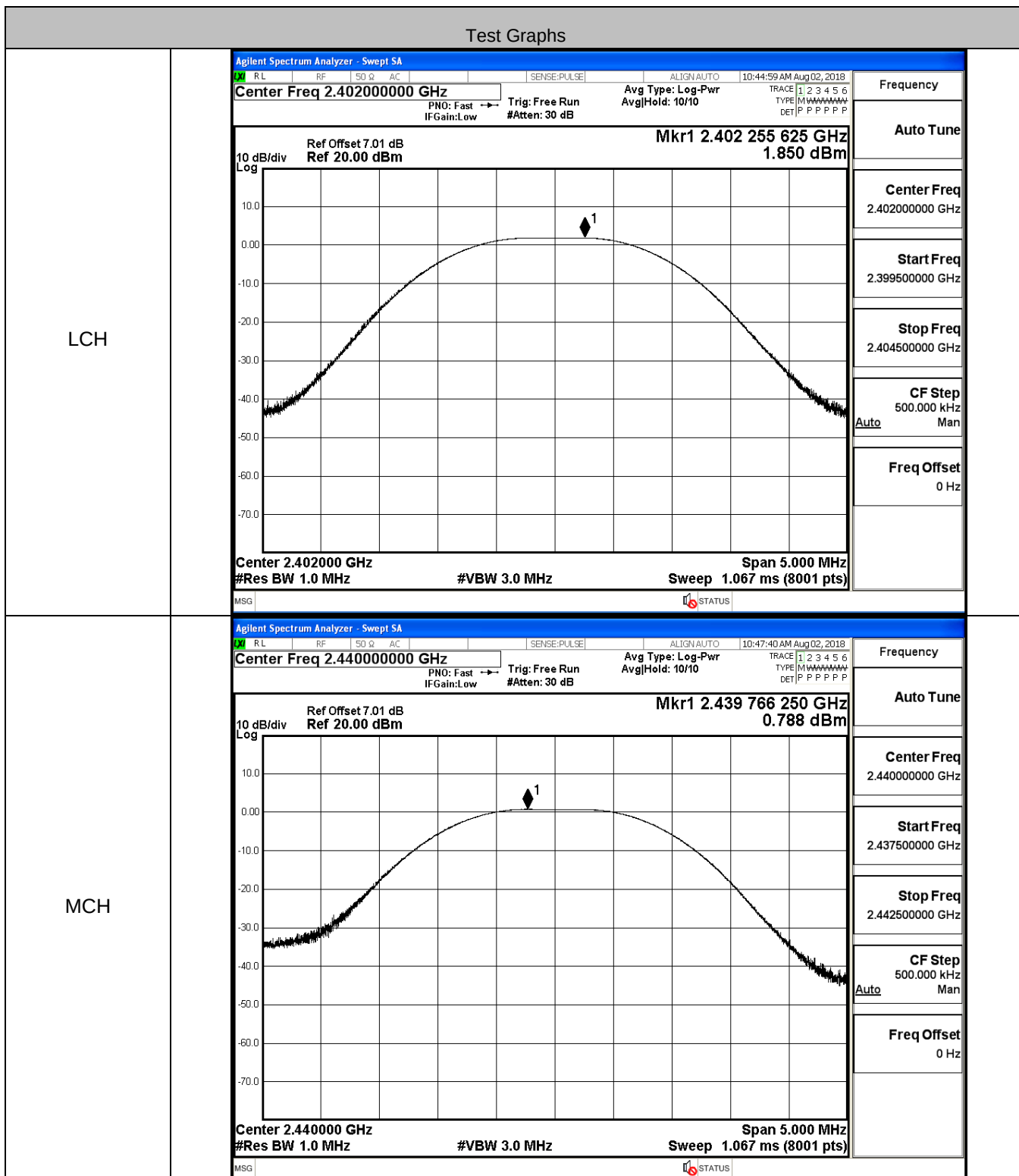
B.1 Duty Cycle

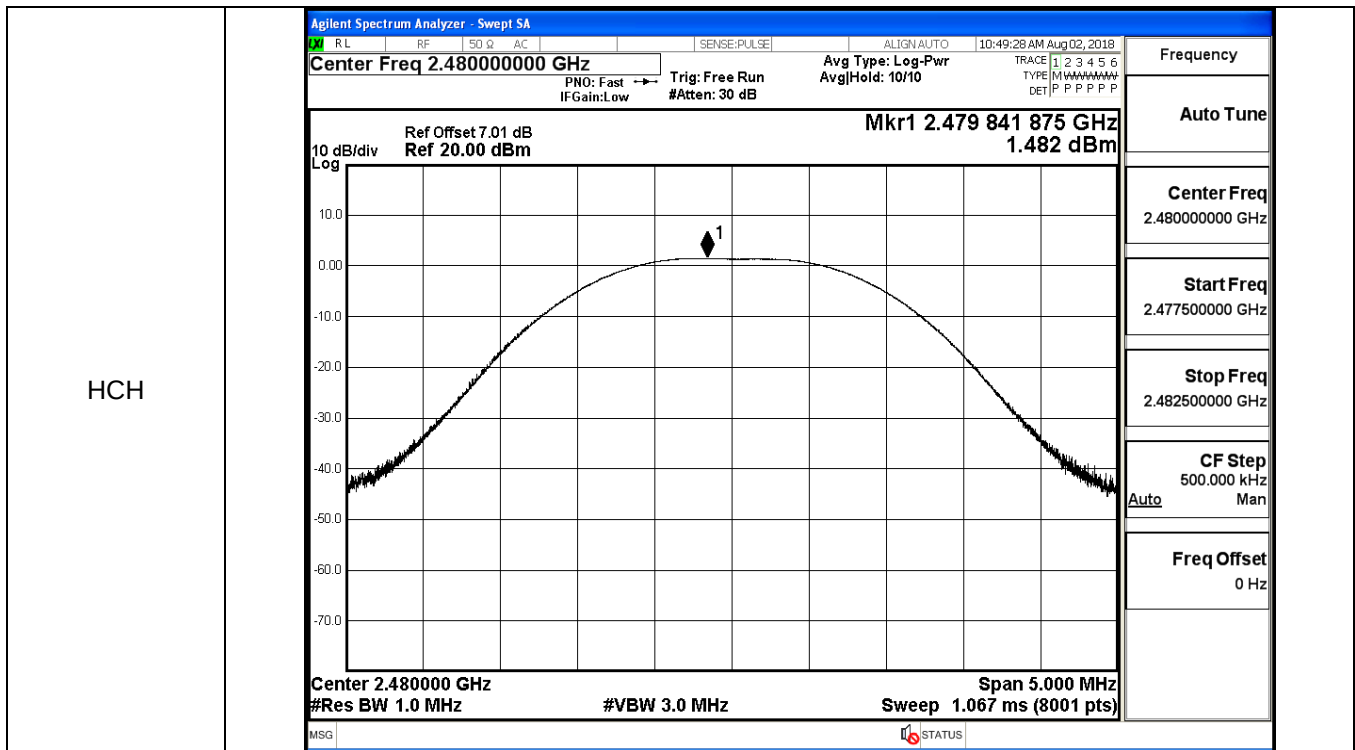
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS



B.2 Maximum Conducted Peak Output Power

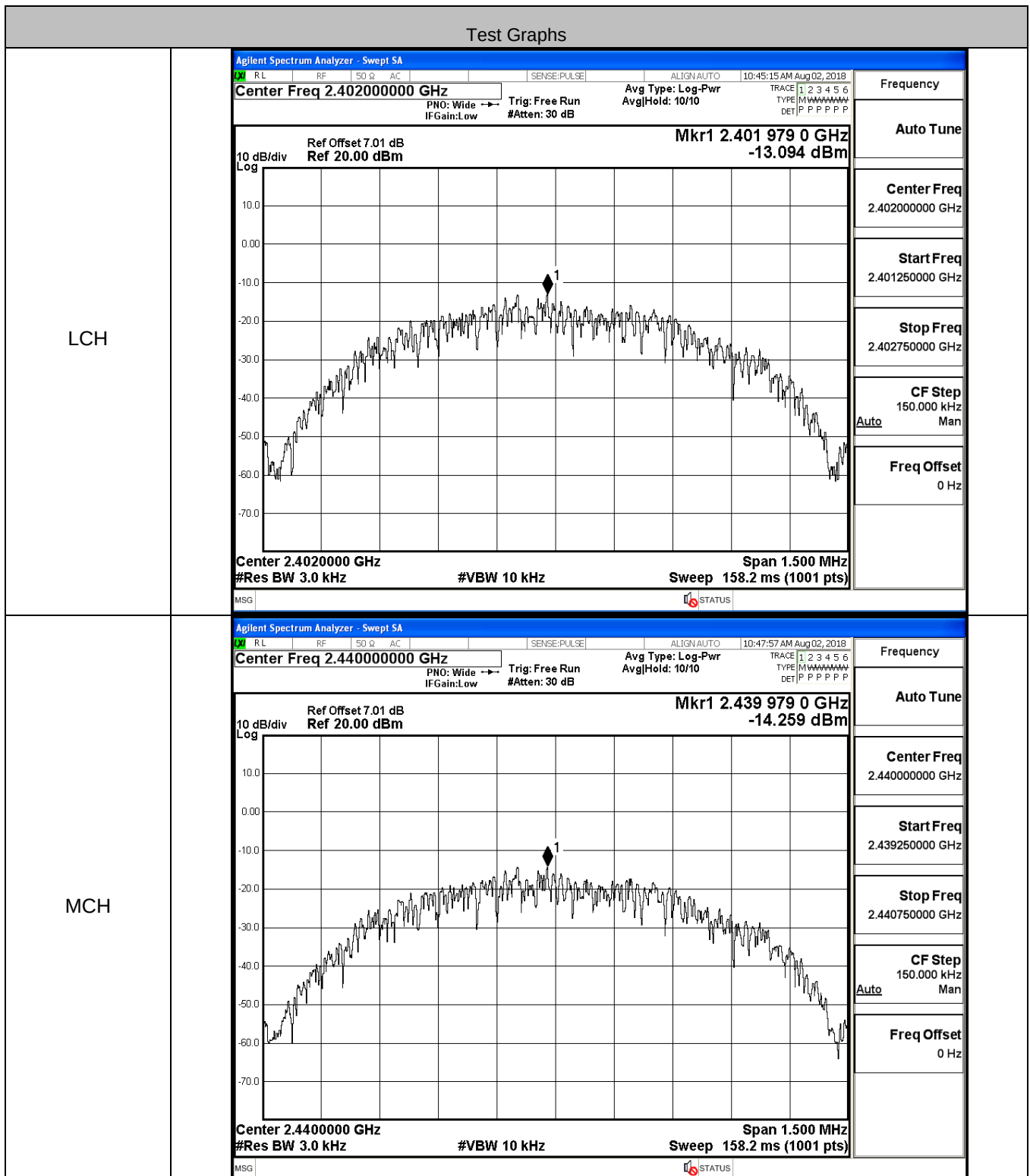
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.850	30	PASS
BT LE	MCH	0.788	30	PASS
BT LE	HCH	1.482	30	PASS



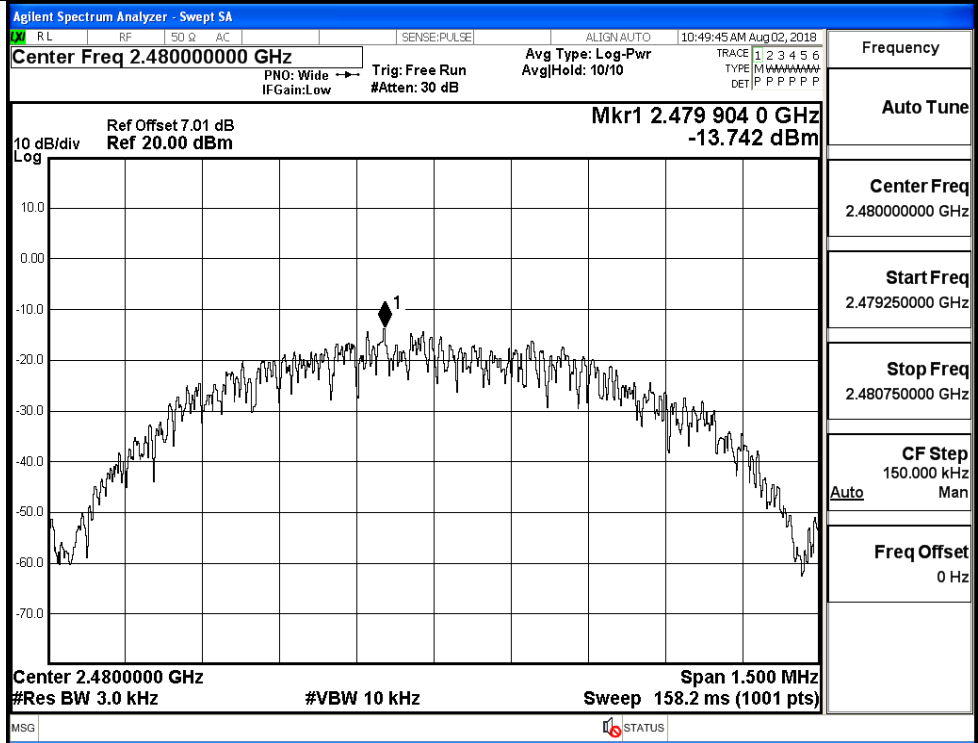


B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-13.094	8	PASS
BT LE	MCH	-14.259	8	PASS
BT LE	HCH	-13.742	8	PASS



HCH

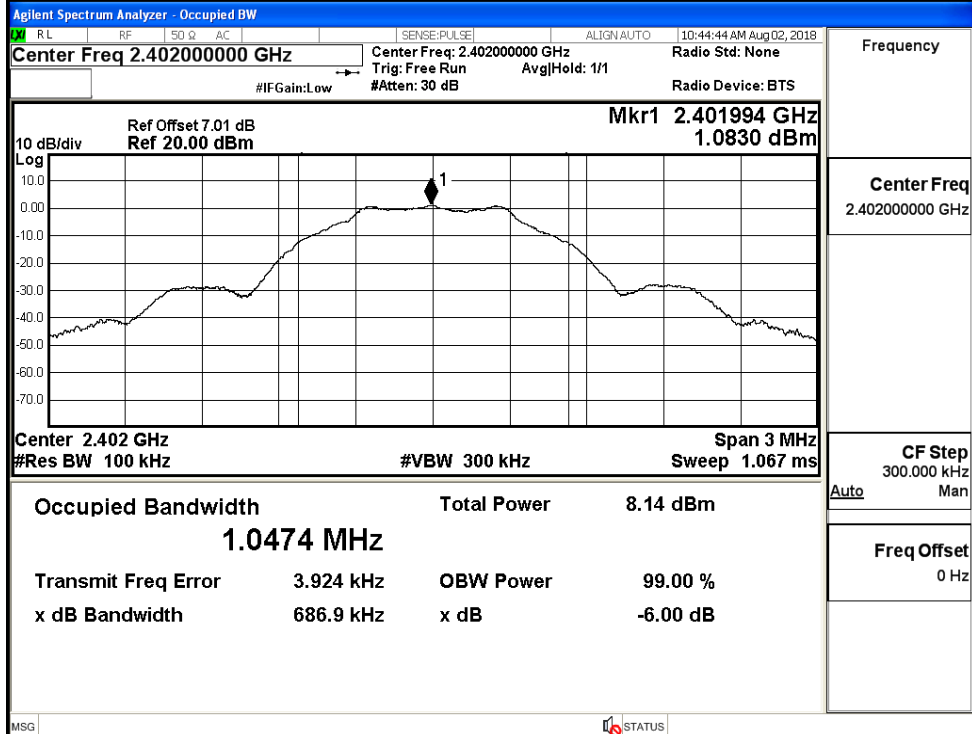


B.4 6dB Bandwidth

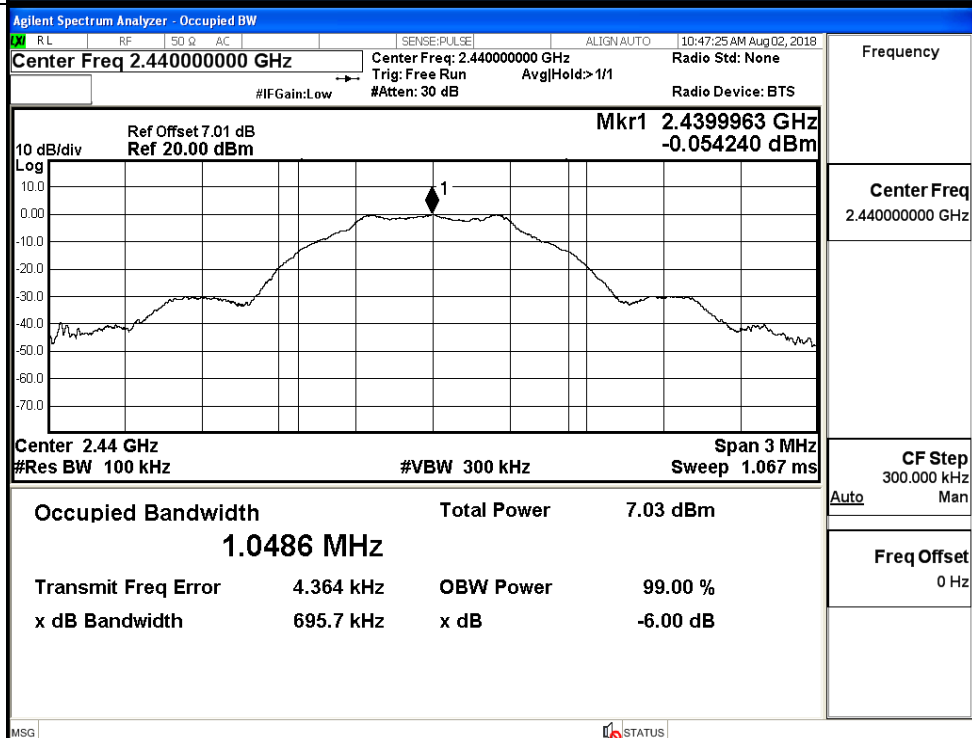
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6869	≥ 0.5	PASS
BT LE	MCH	0.6957	≥ 0.5	PASS
BT LE	HCH	0.6978	≥ 0.5	PASS

Test Graphs

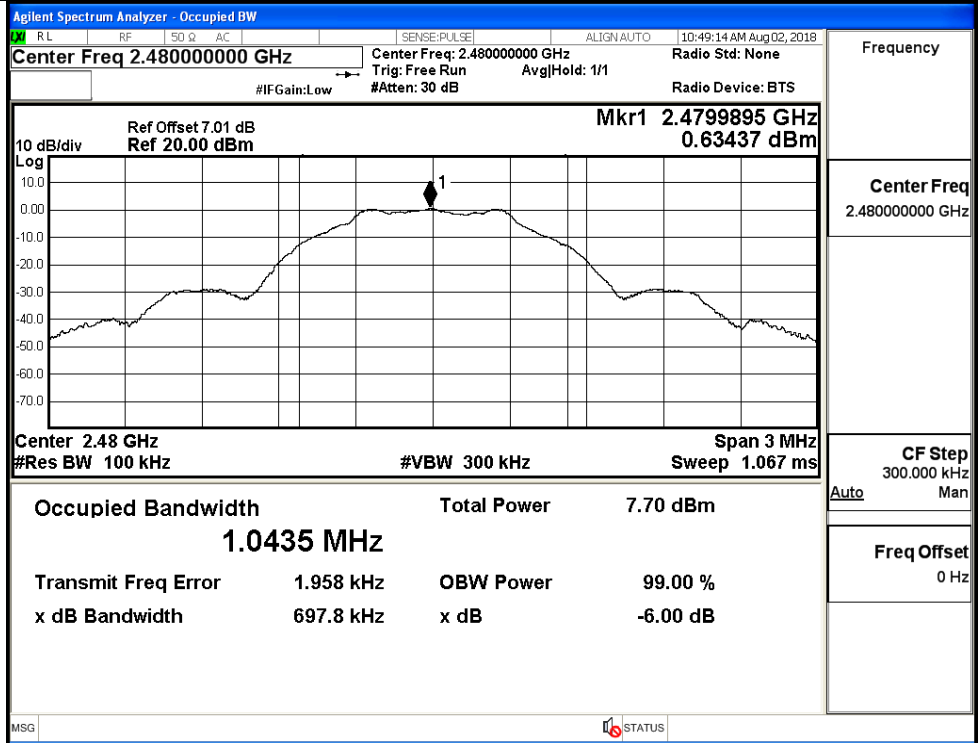
LCH



MCH



HCH

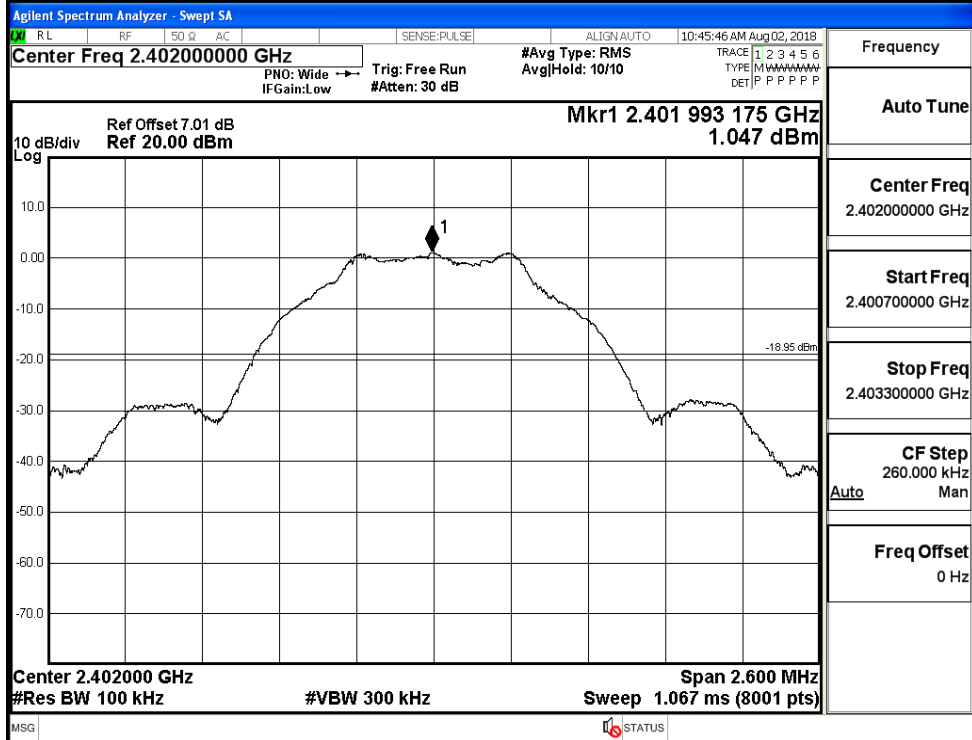


B.5 RF Conducted Spurious Emissions

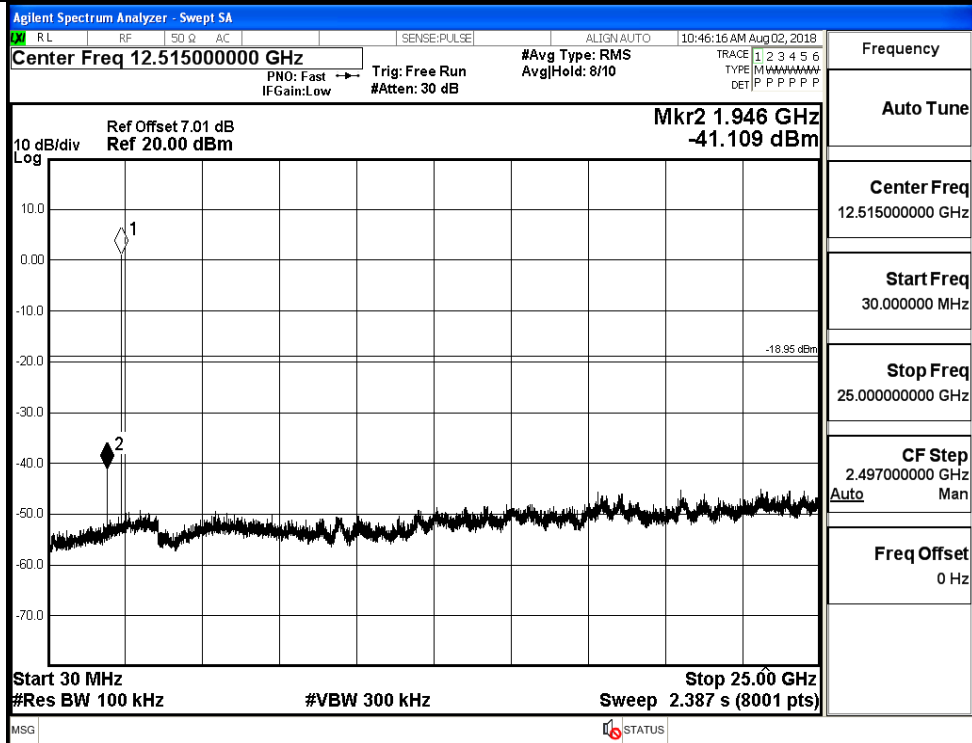
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.047	-41.109	-18.953	PASS
BT LE	MCH	-0.053	-45.687	-20.053	PASS
BT LE	HCH	0.648	-45.041	-19.352	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

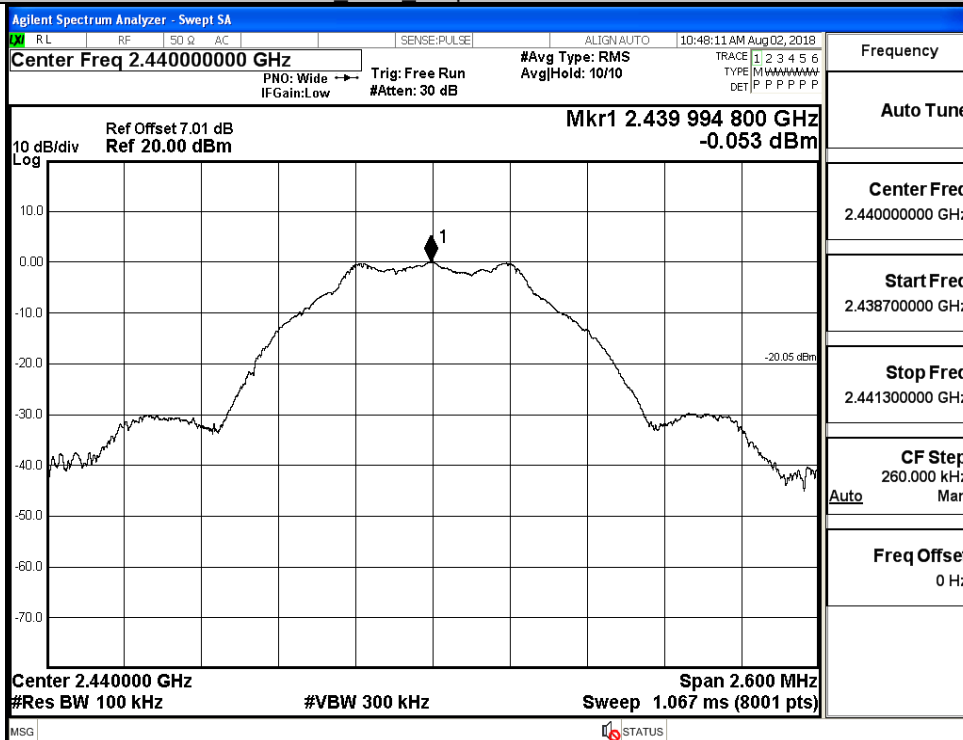


Puw/BT LE/LCH

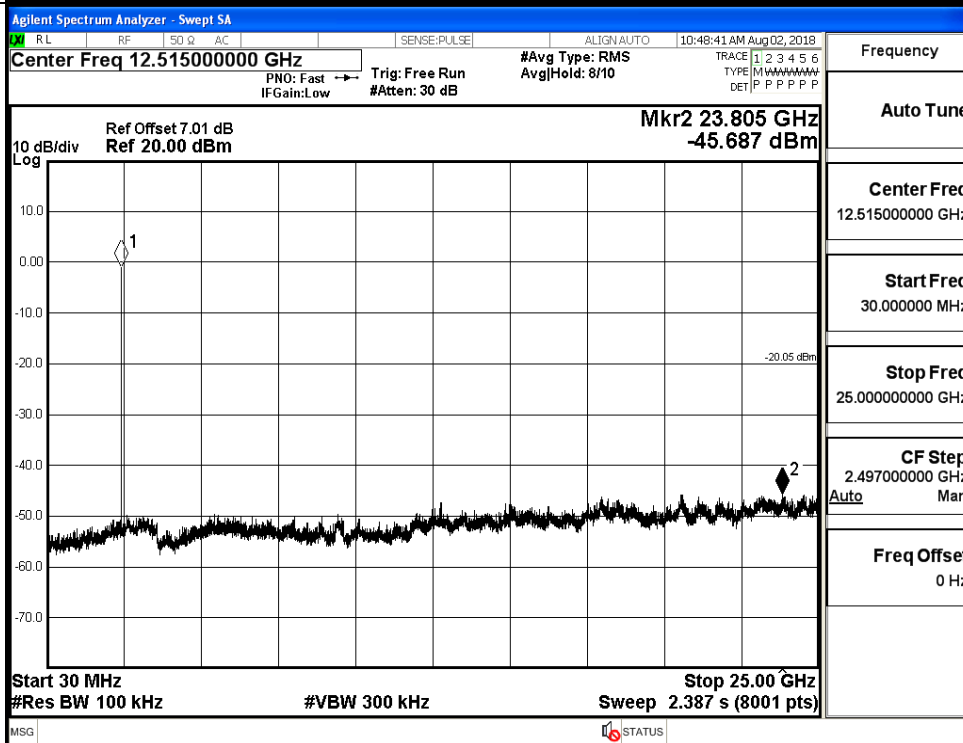


BT LE MCH Graphs

Pref/BT LE/MCH

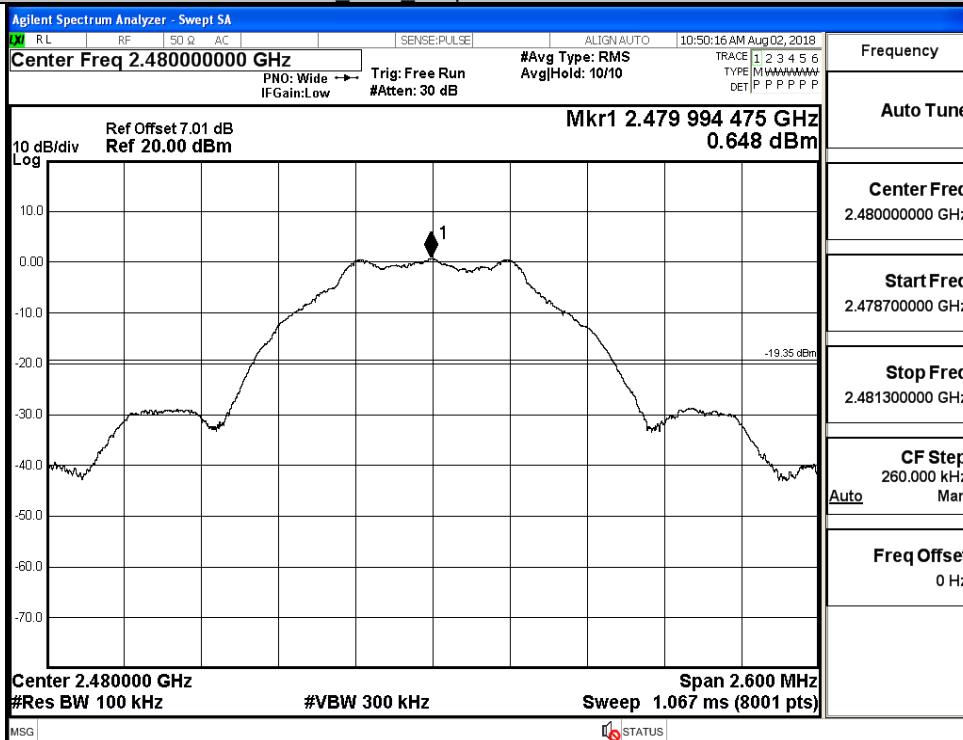


Puw/BT LE/MCH

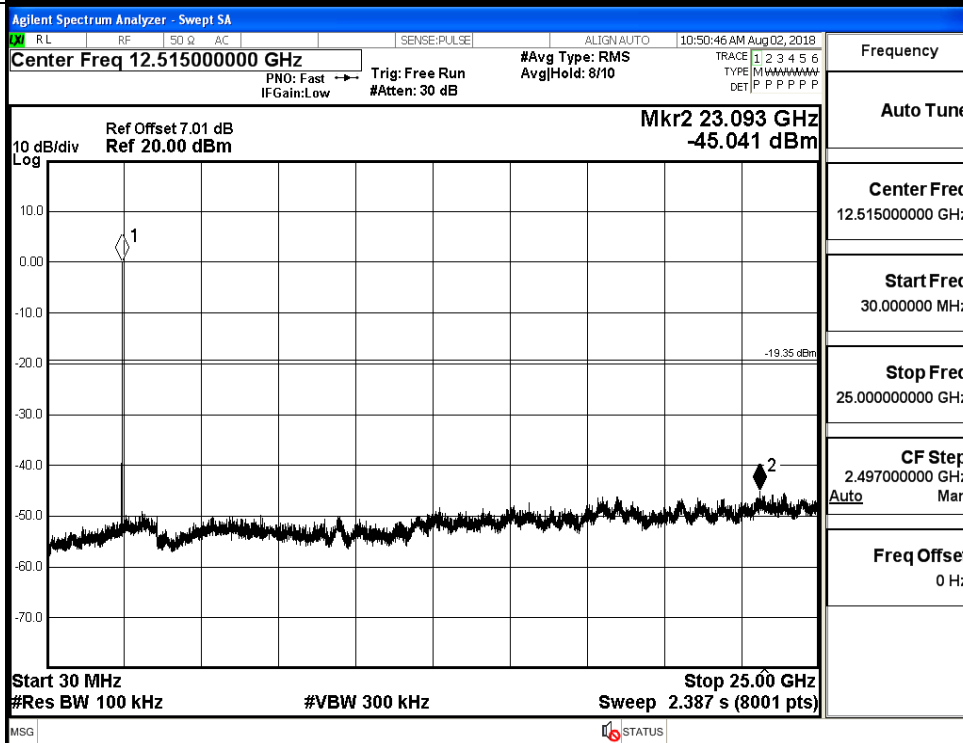


BT LE HCH Graphs

Pref/BT LE/HCH

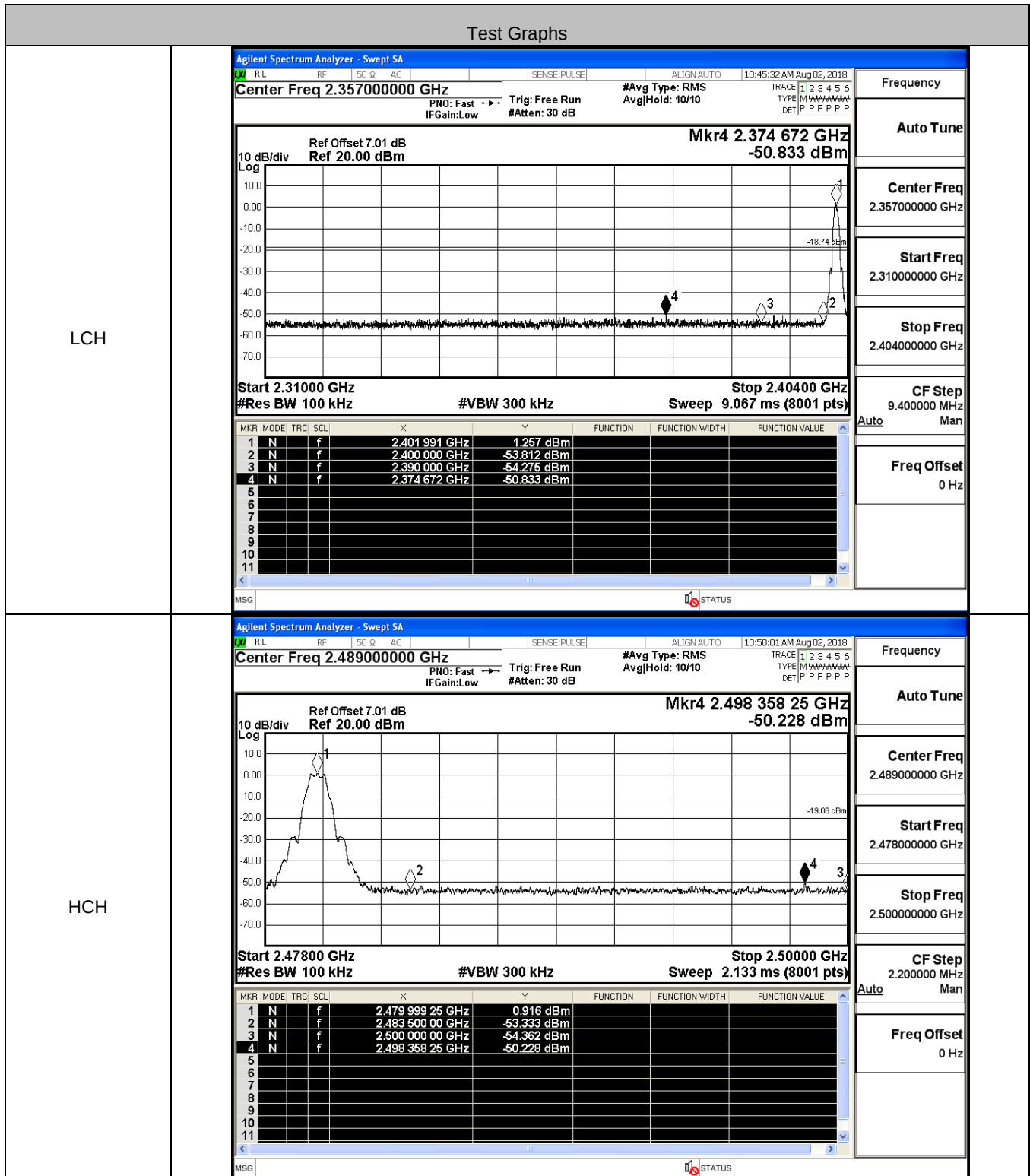


Puw/BT LE/HCH



B.6 Band-edge for RF Conducted Emissions

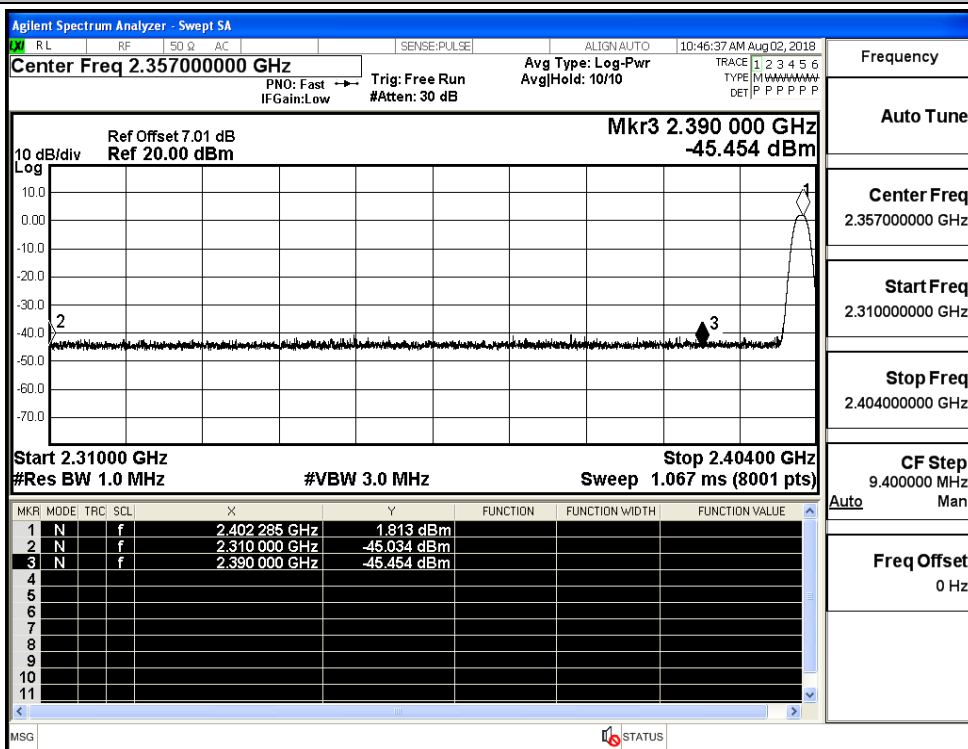
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.257	-50.833	-18.74	PASS
BT LE	HCH	0.916	-50.228	-19.08	PASS



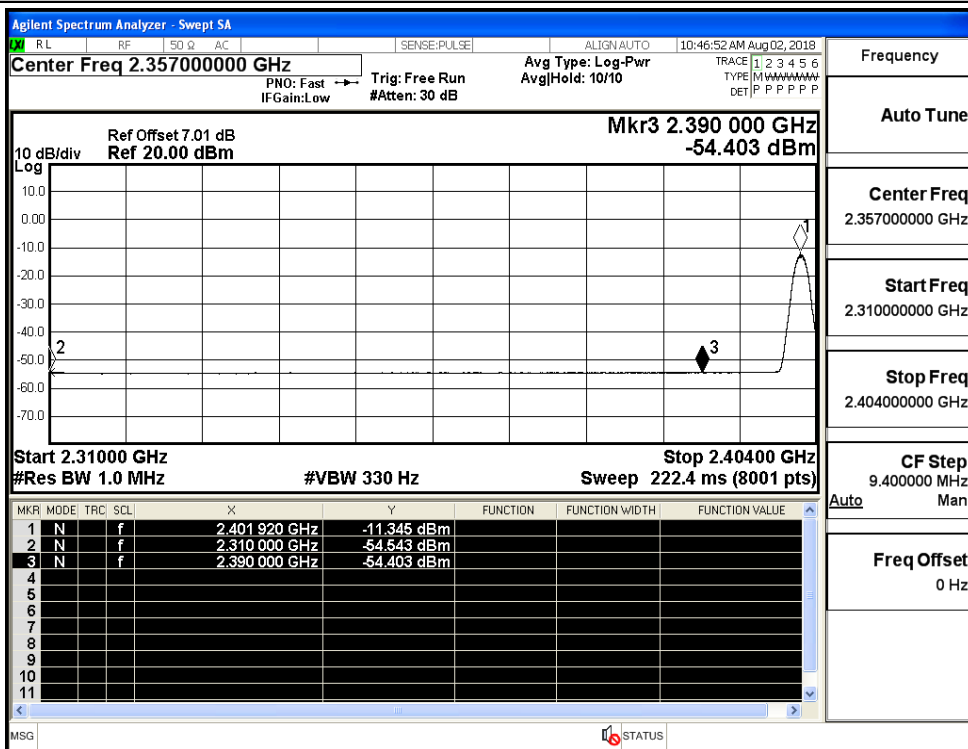
B.7 Restrict-band band-edge measurements

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	-45.03	2.0	0	52.22	PEAK	74	PASS
		Ant1	2310.0	-54.54	2.0	0	42.71	AV	54	PASS
		Ant1	2390.0	-45.45	2.0	0	51.80	PEAK	74	PASS
		Ant1	2390.0	-54.40	2.0	0	42.85	AV	54	PASS
	2480	Ant1	2483.5	-41.58	2.0	0	55.68	PEAK	74	PASS
		Ant1	2483.5	-54.12	2.0	0	43.14	AV	54	PASS
		Ant1	2500.0	-44.04	2.0	0	53.22	PEAK	74	PASS
		Ant1	2500.0	-54.00	2.0	0	43.25	AV	54	PASS

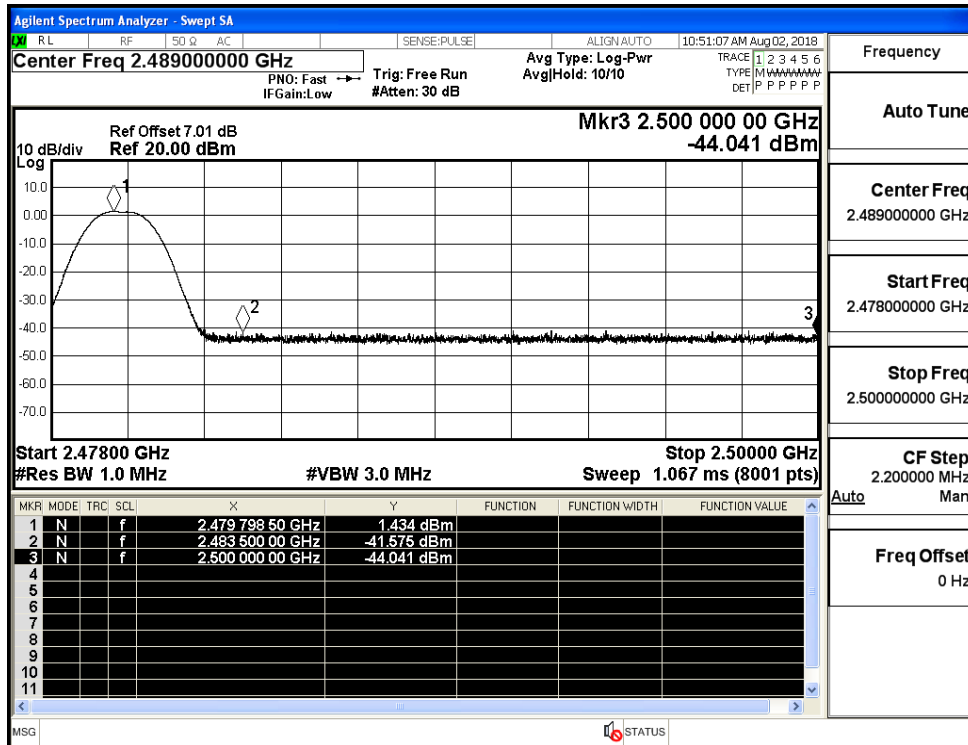
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

