

Appendix B

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

Product Name: Aegis WiFi Gateway

Trade Mark: BOSMA

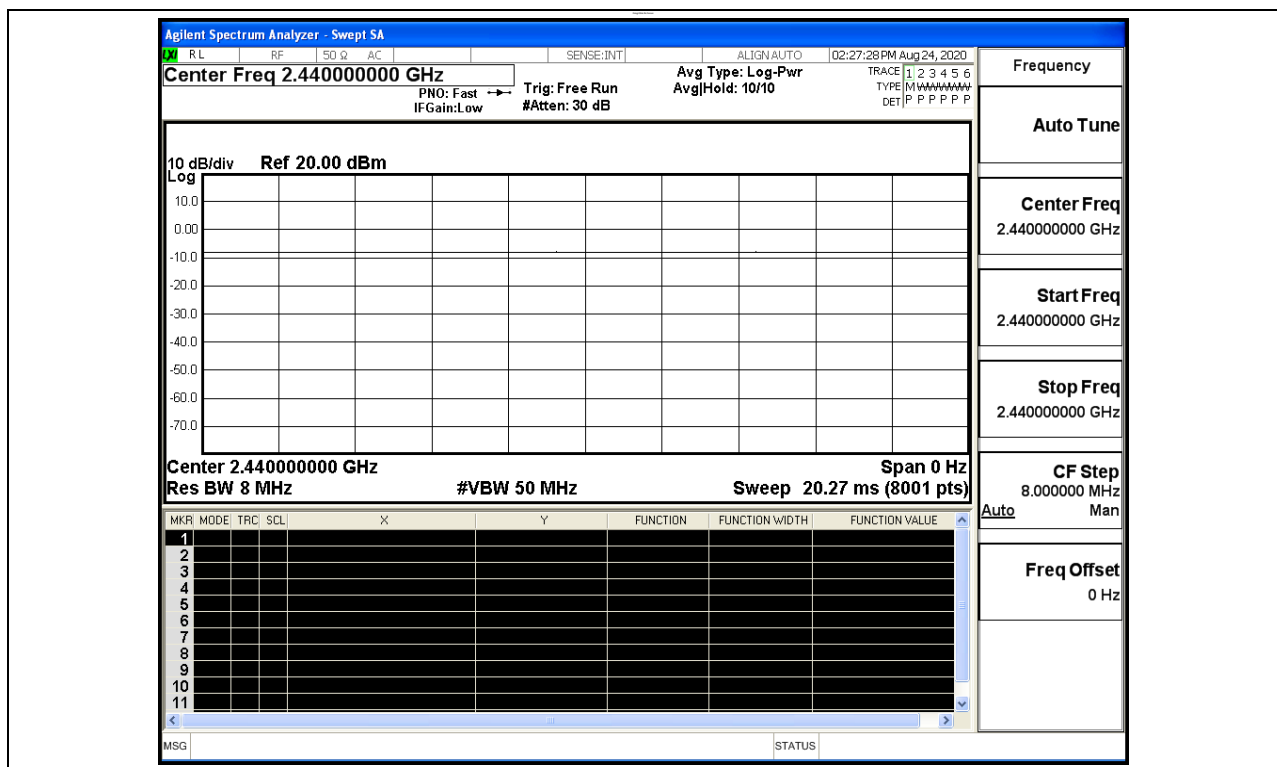
Test Model: RP0001

Environmental Conditions

Temperature:	23.2 ° C
Relative Humidity:	52.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

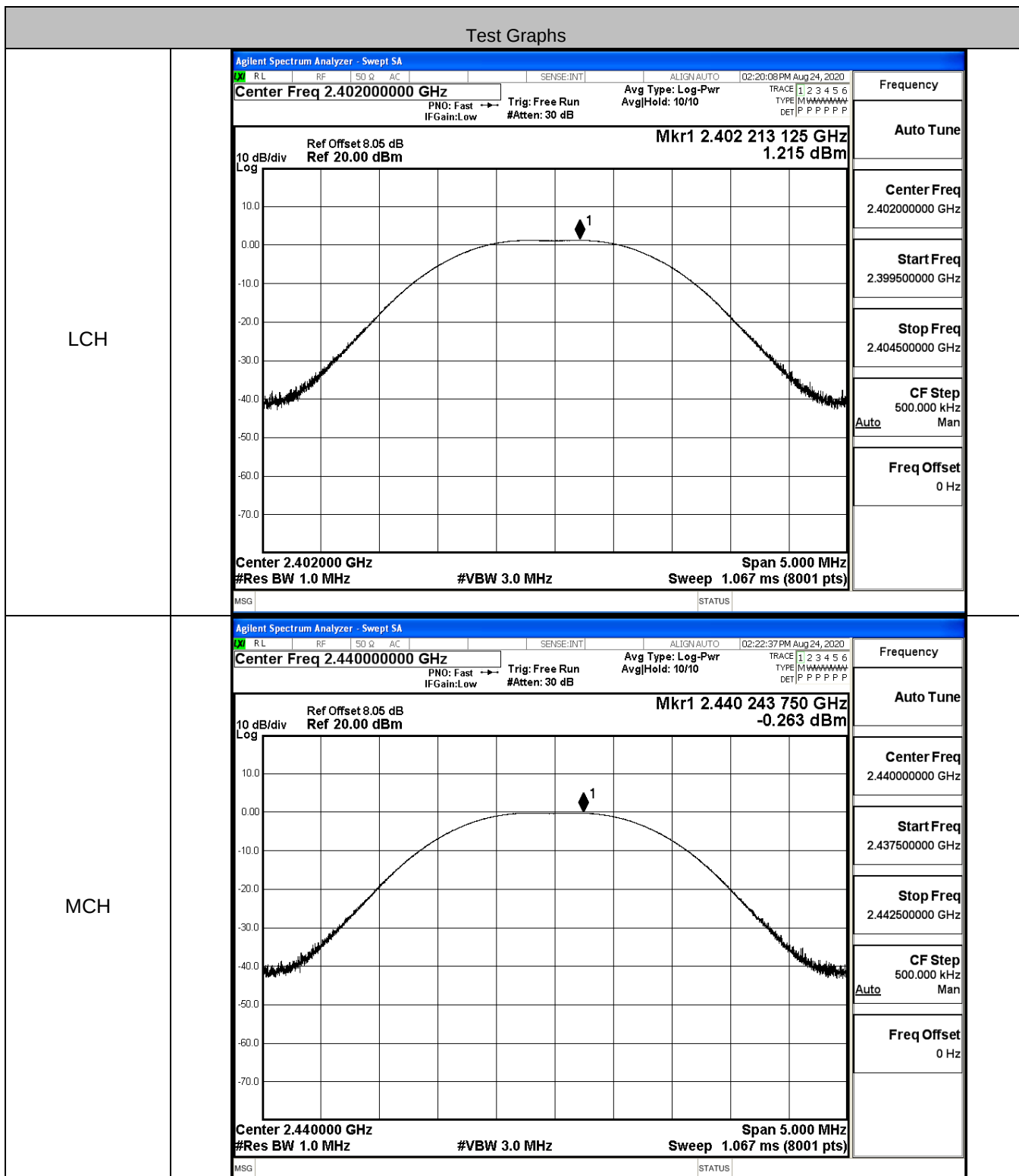
B.1 Duty Cycle

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

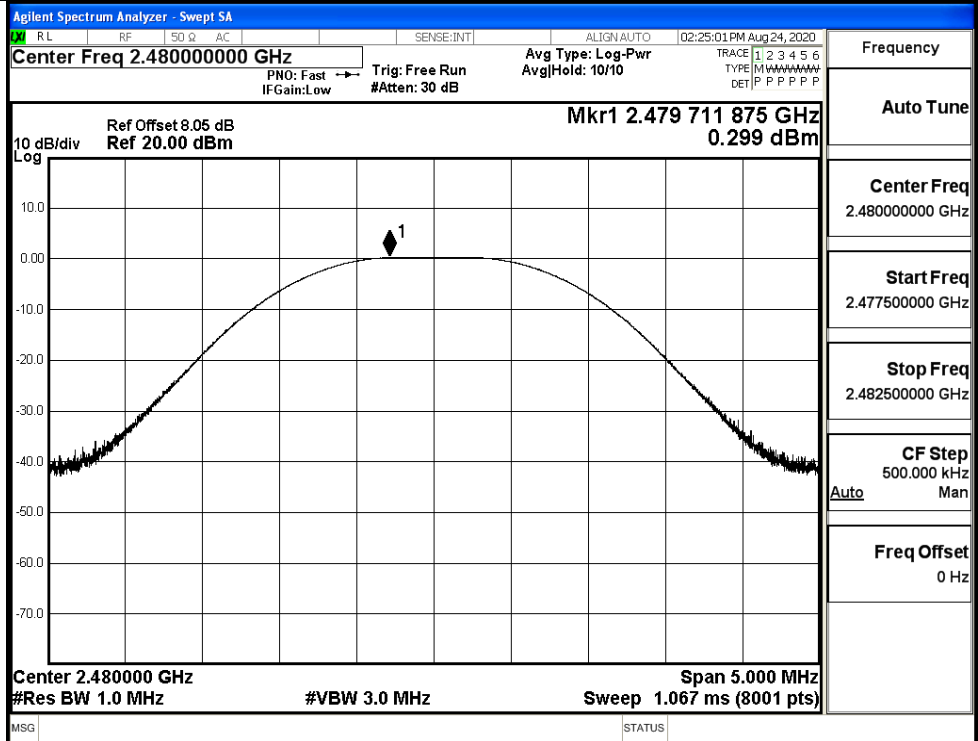


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.215	30	PASS
BT LE	MCH	-0.263	30	PASS
BT LE	HCH	0.299	30	PASS



HCH

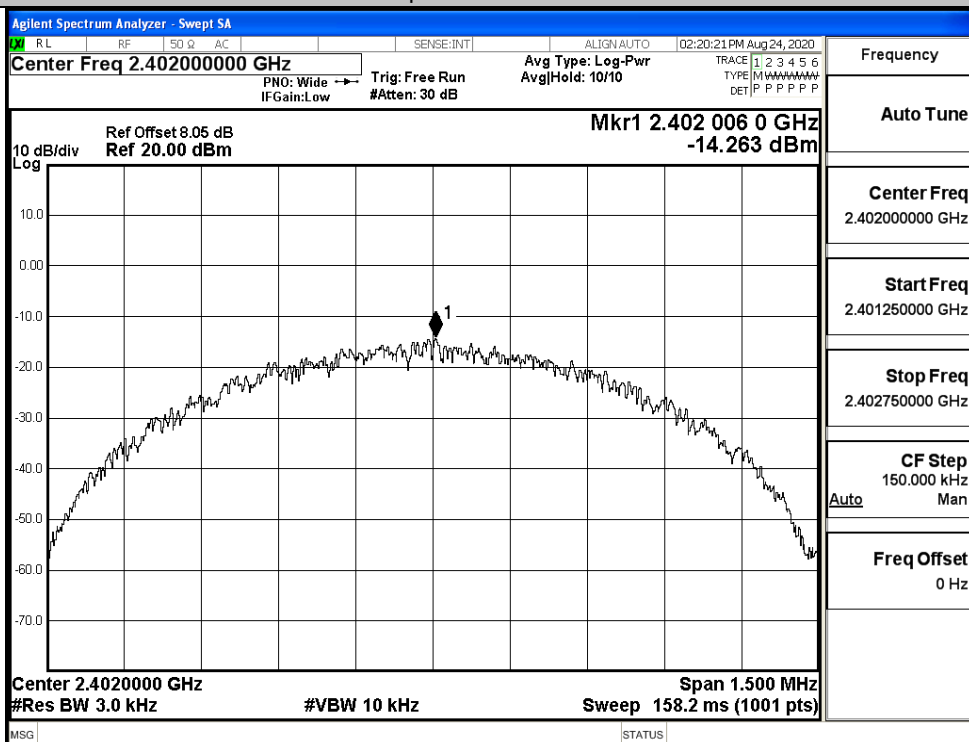


B.3 Maximum Power Spectral Density

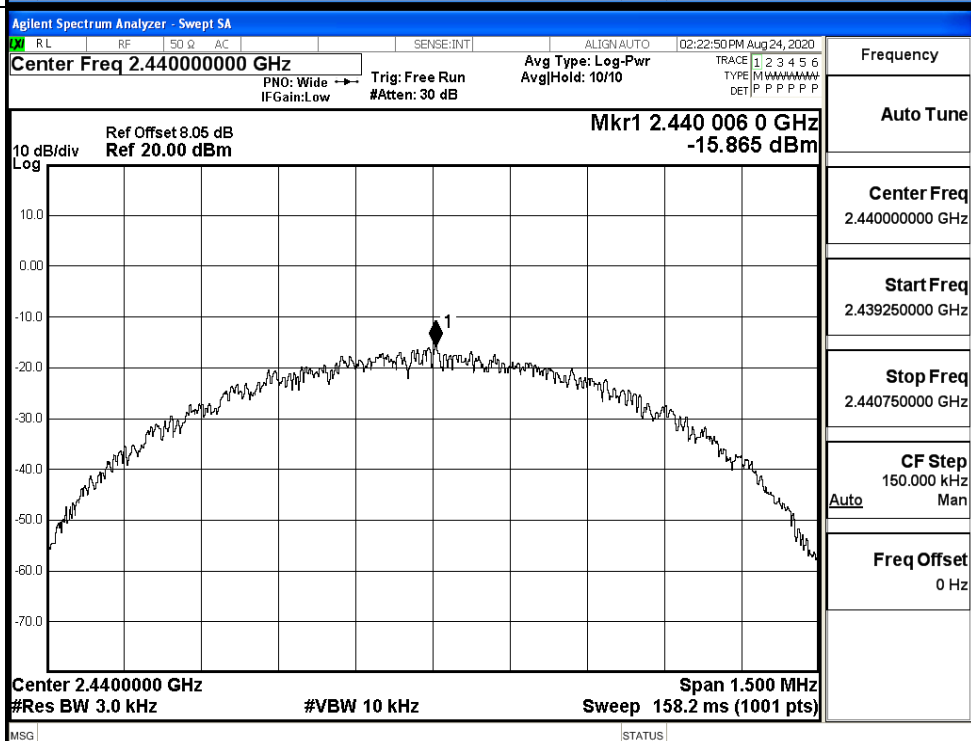
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.263	8	PASS
BT LE	MCH	-15.865	8	PASS
BT LE	HCH	-15.212	8	PASS

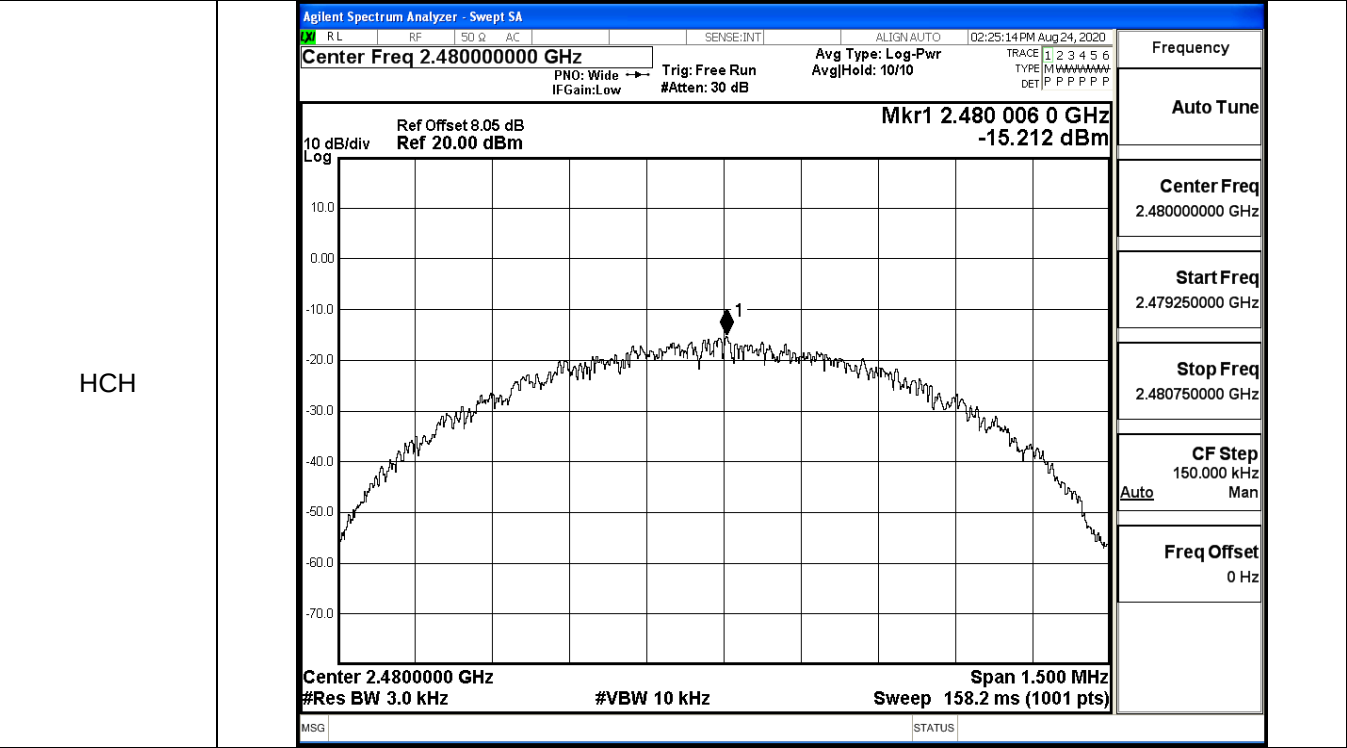
Test Graphs

LCH



MCH



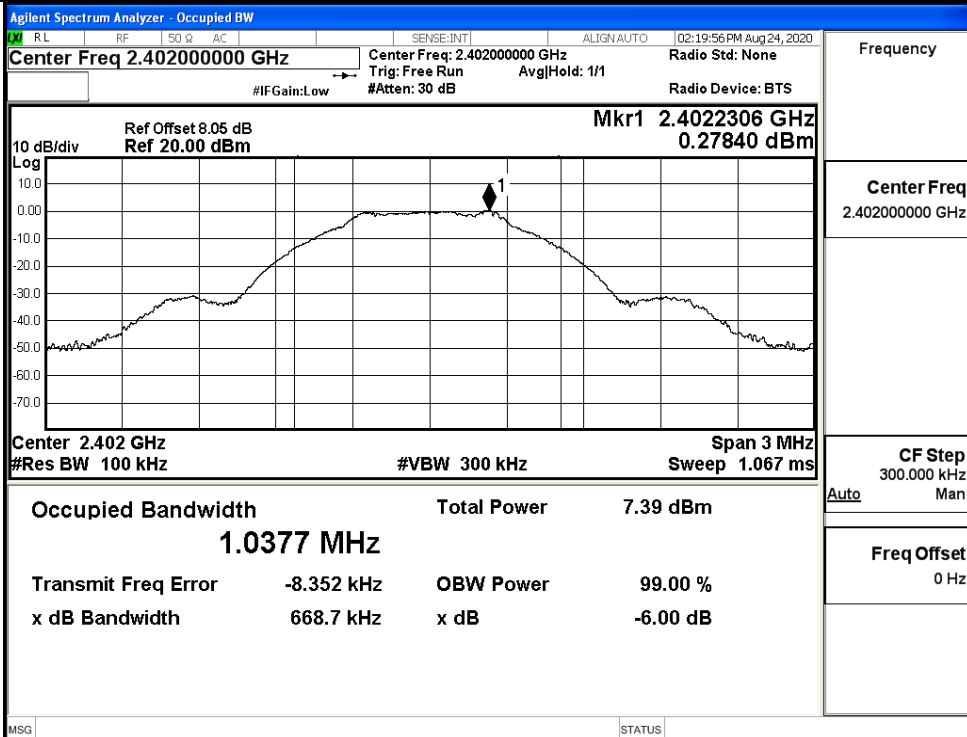


B.4 6dB Bandwidth

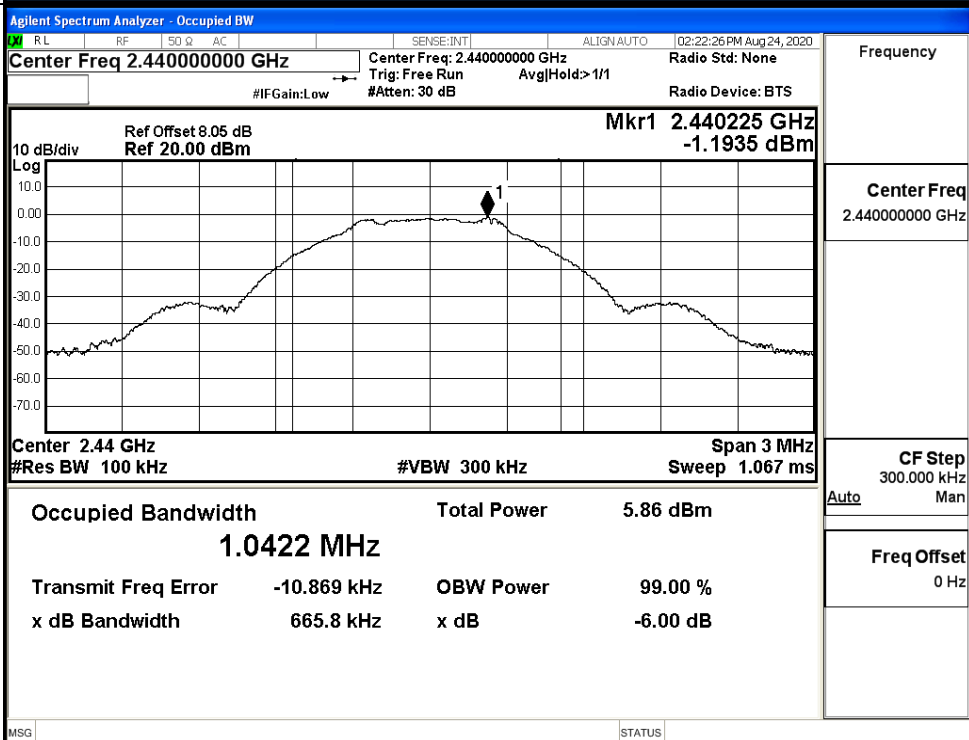
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6687	≥ 0.5	PASS
BT LE	MCH	0.6658	≥ 0.5	PASS
BT LE	HCH	0.6701	≥ 0.5	PASS

Test Graphs

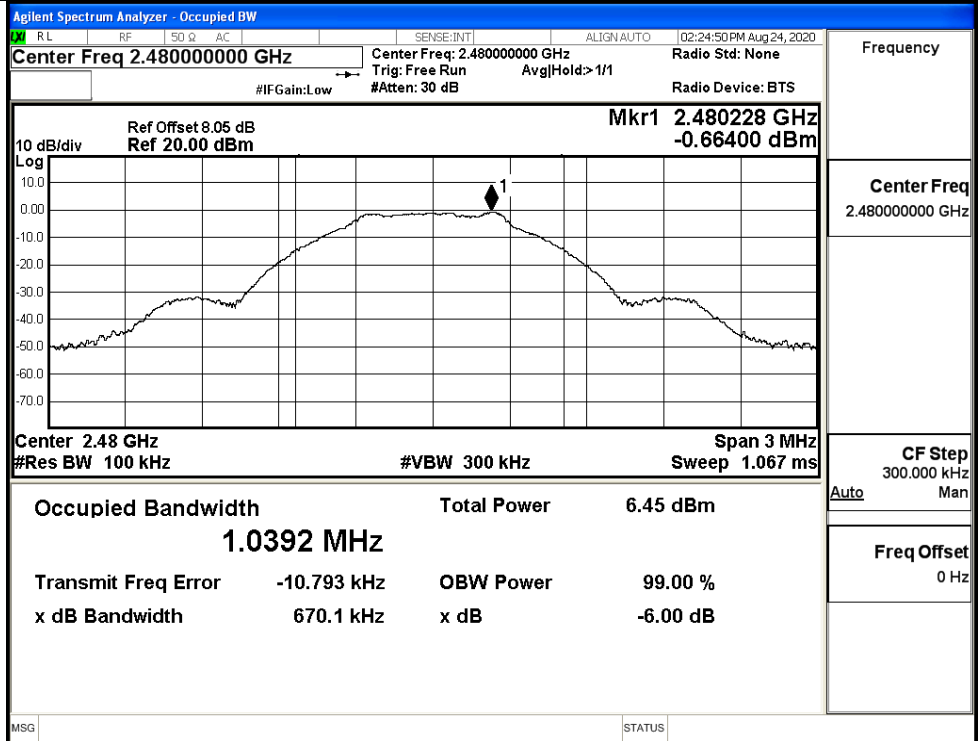
LCH



MCH



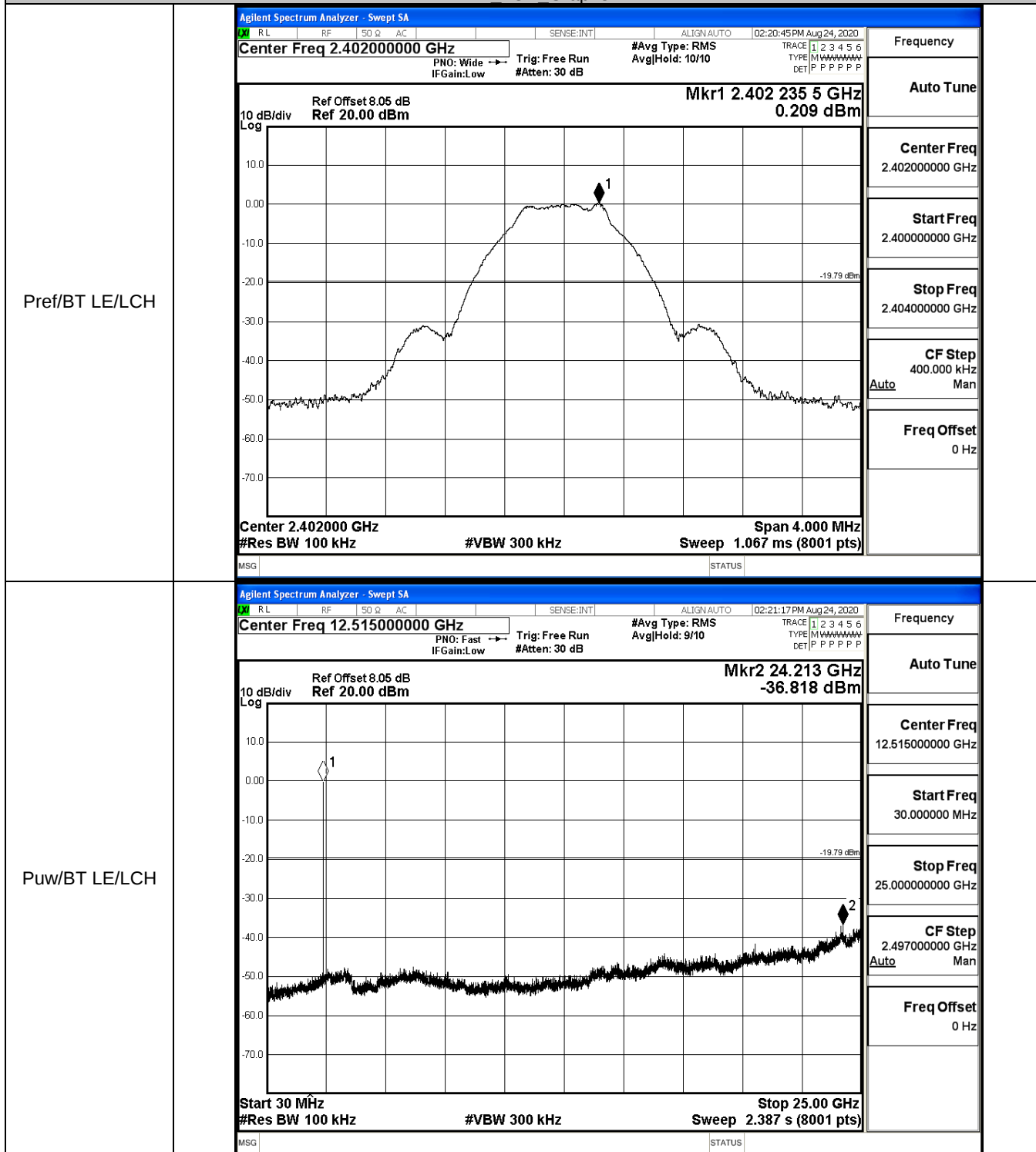
HCH



B.5 RF Conducted Spurious Emissions

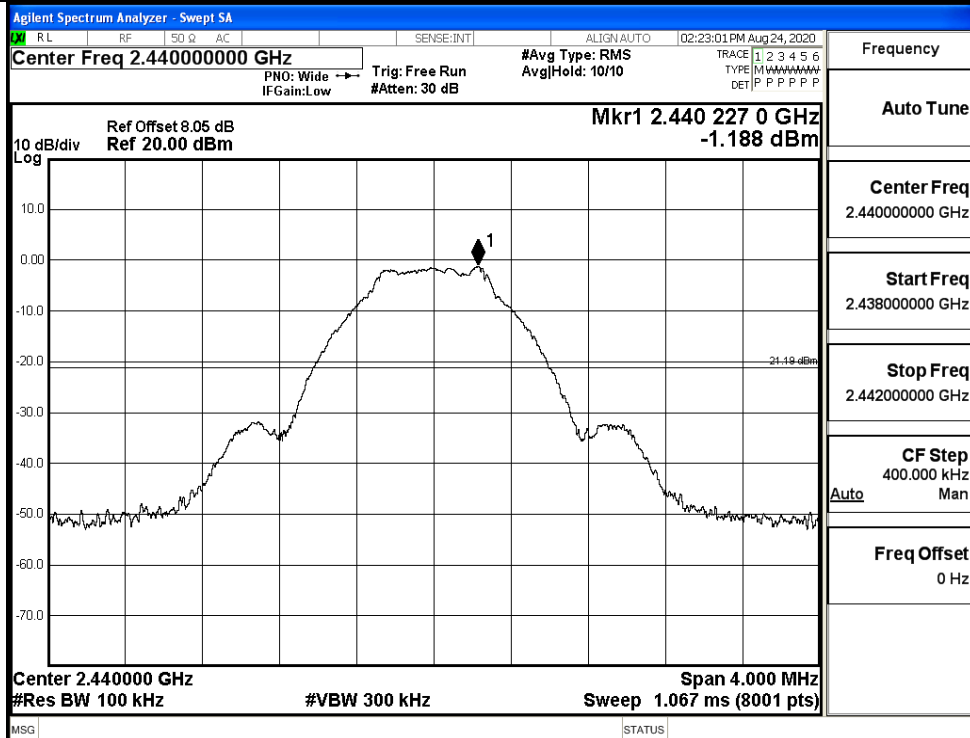
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.209	-36.818	-19.791	PASS
BT LE	MCH	-1.188	-37.595	-21.188	PASS
BT LE	HCH	-0.67	-37.346	-20.670	PASS

BT LE LCH Graphs

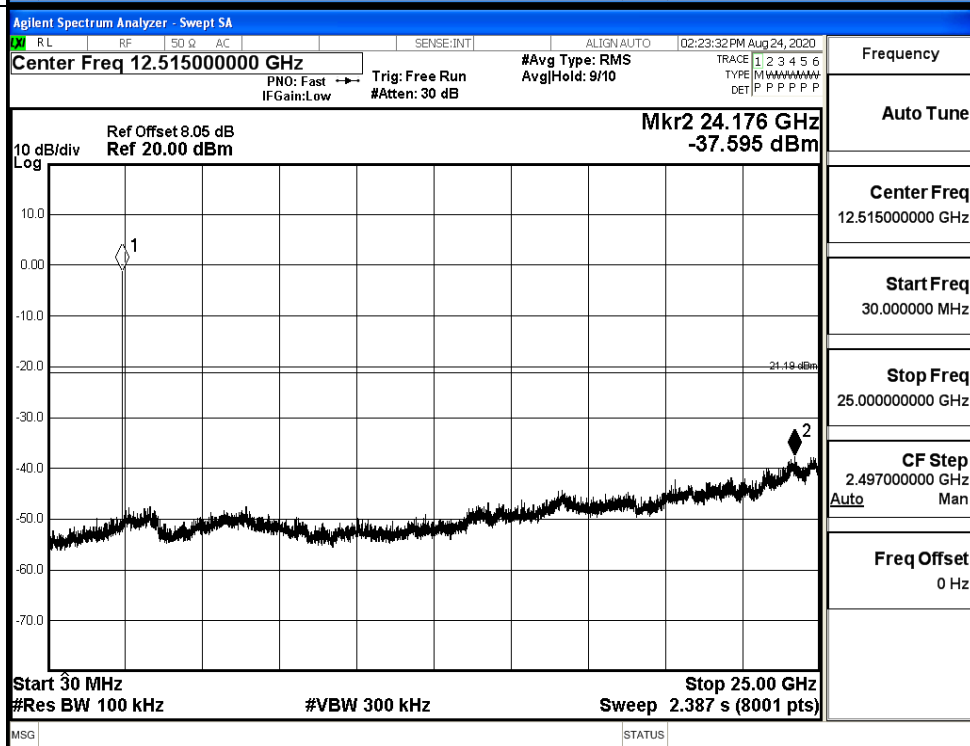


BT LE MCH Graphs

Pref/BT LE/MCH

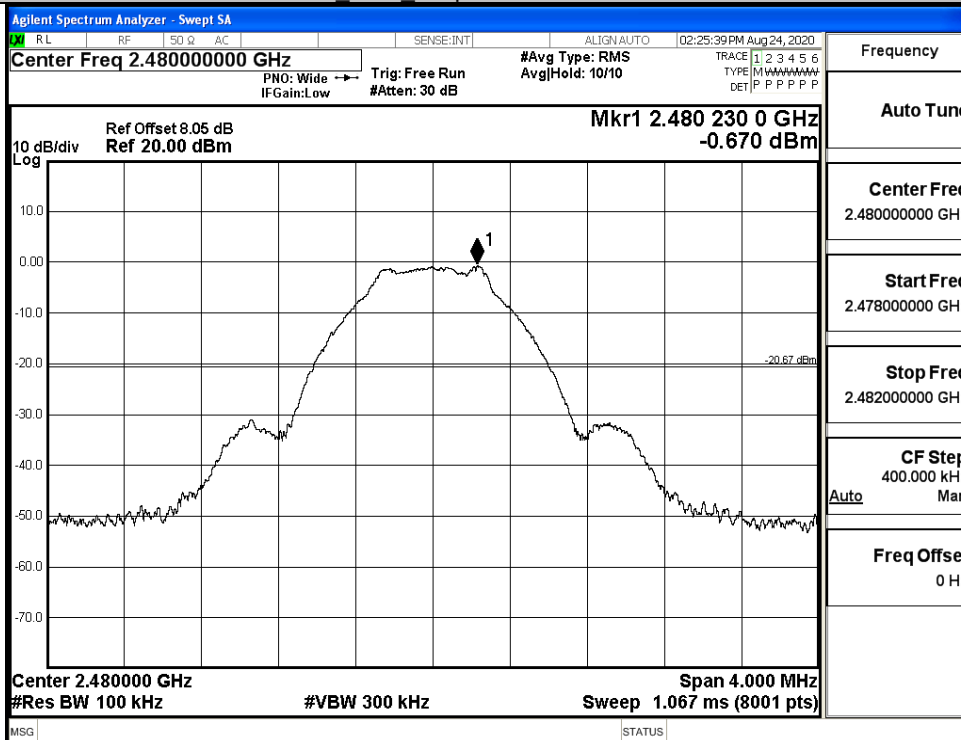


Puw/BT LE/MCH

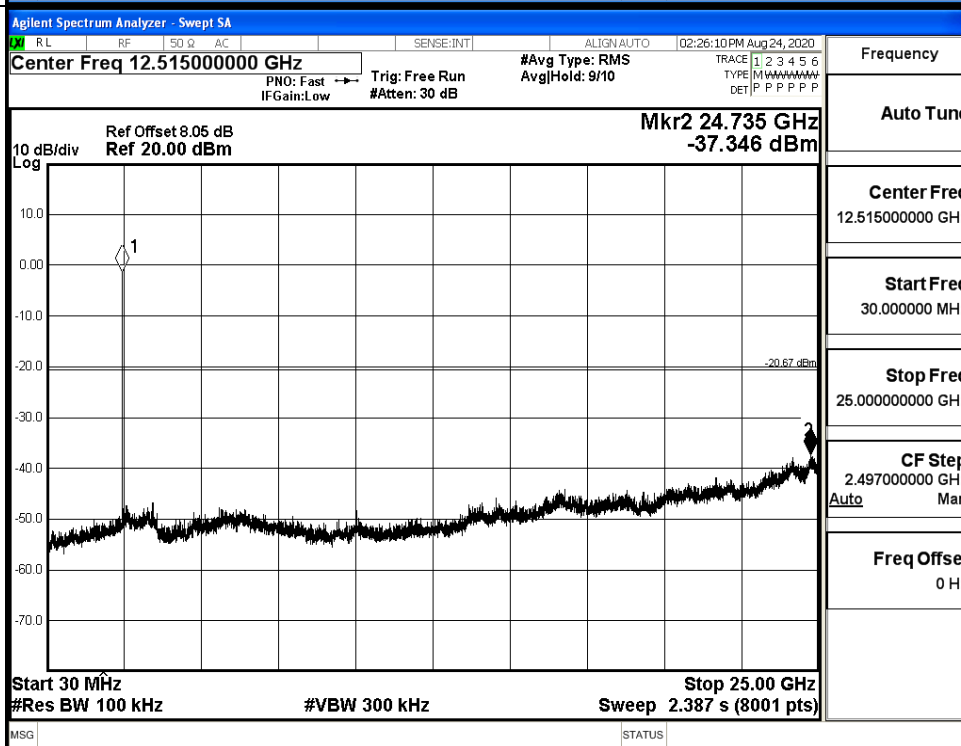


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

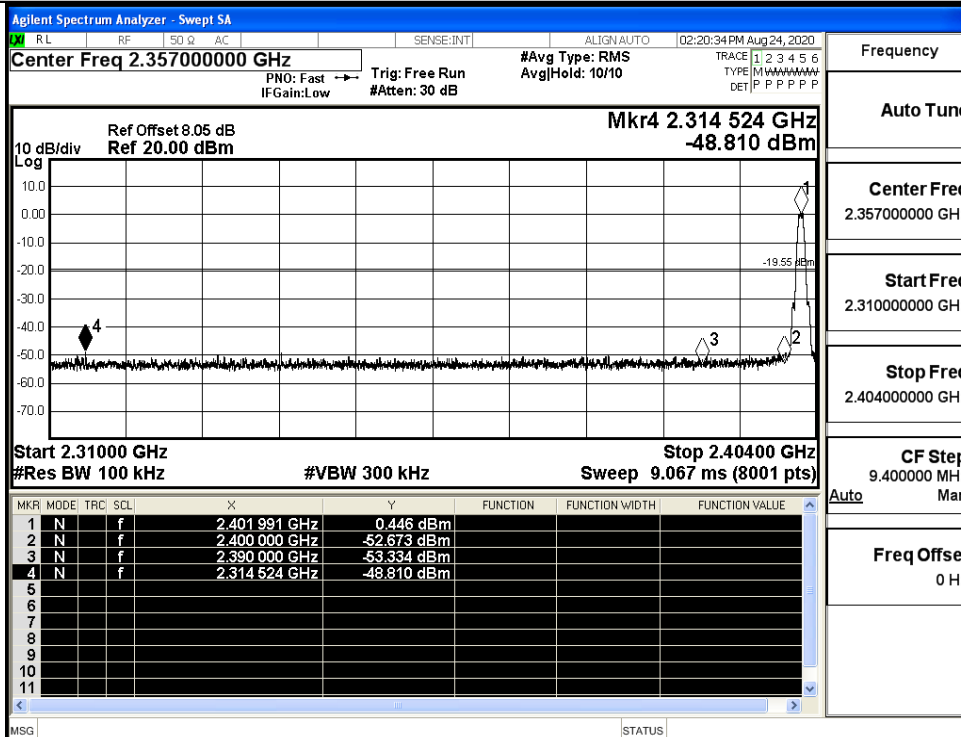


B.6 Band-edge for RF Conducted Emissions

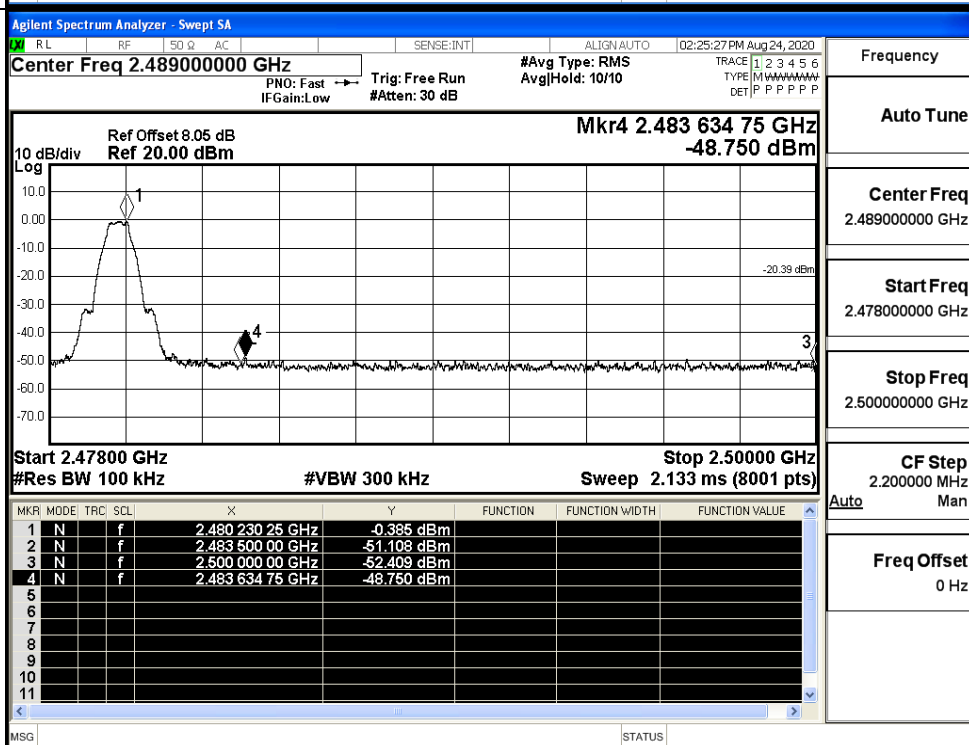
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.446	-48.810	-19.55	PASS
BT LE	HCH	-0.385	-48.750	-20.39	PASS

Test Graphs

LCH



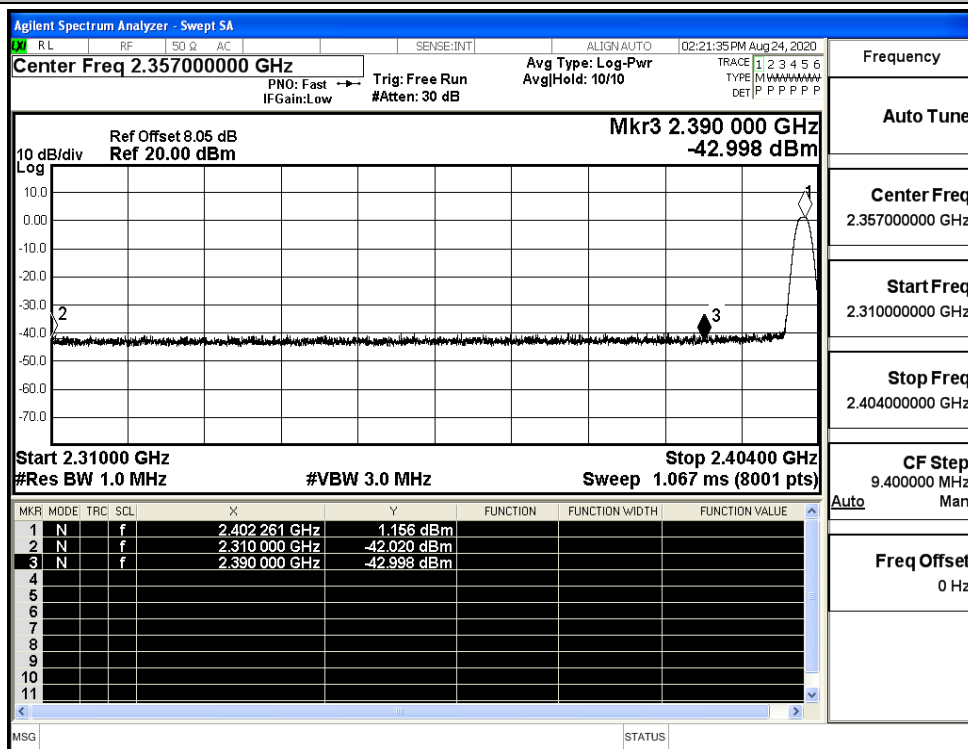
HCH



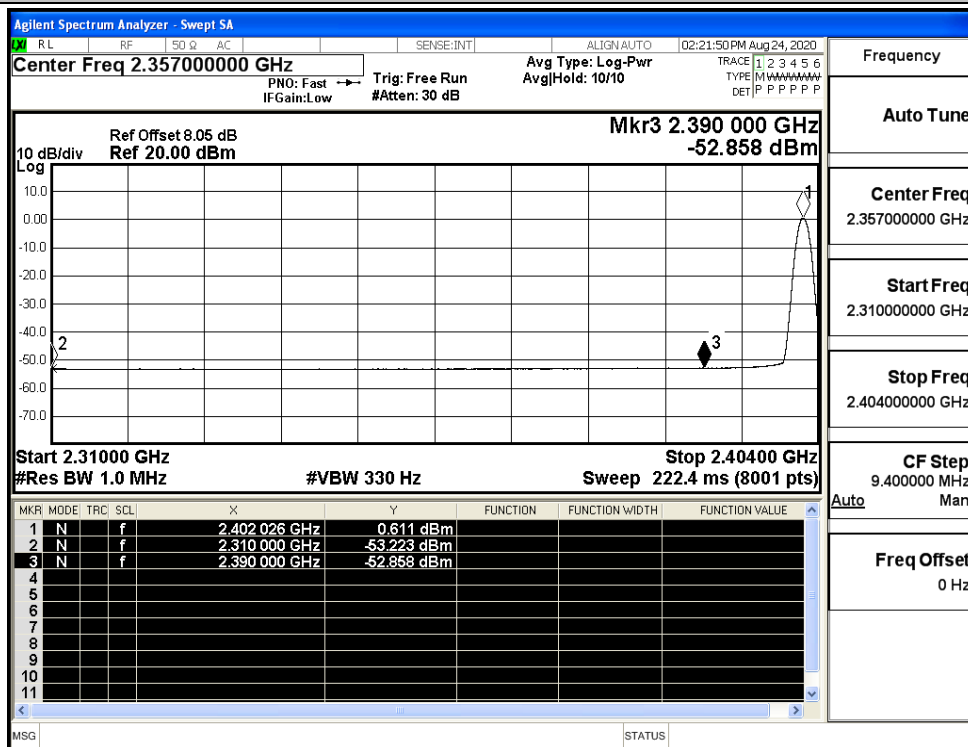
B.7 Restrict-band band-edge measurements

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	-42.02	2.0	0	55.24	PEAK	74	PASS
		Ant1	2310.0	-53.22	2.0	0	44.04	AV	54	PASS
		Ant1	2390.0	-43.00	2.0	0	54.26	PEAK	74	PASS
		Ant1	2390.0	-52.86	2.0	0	44.4	AV	54	PASS
	2480	Ant1	2483.5	-40.67	2.0	0	56.59	PEAK	74	PASS
		Ant1	2483.5	-51.60	2.0	0	45.66	AV	54	PASS
		Ant1	2500.0	-42.06	2.0	0	55.20	PEAK	74	PASS
		Ant1	2500.0	-52.37	2.0	0	44.89	AV	54	PASS

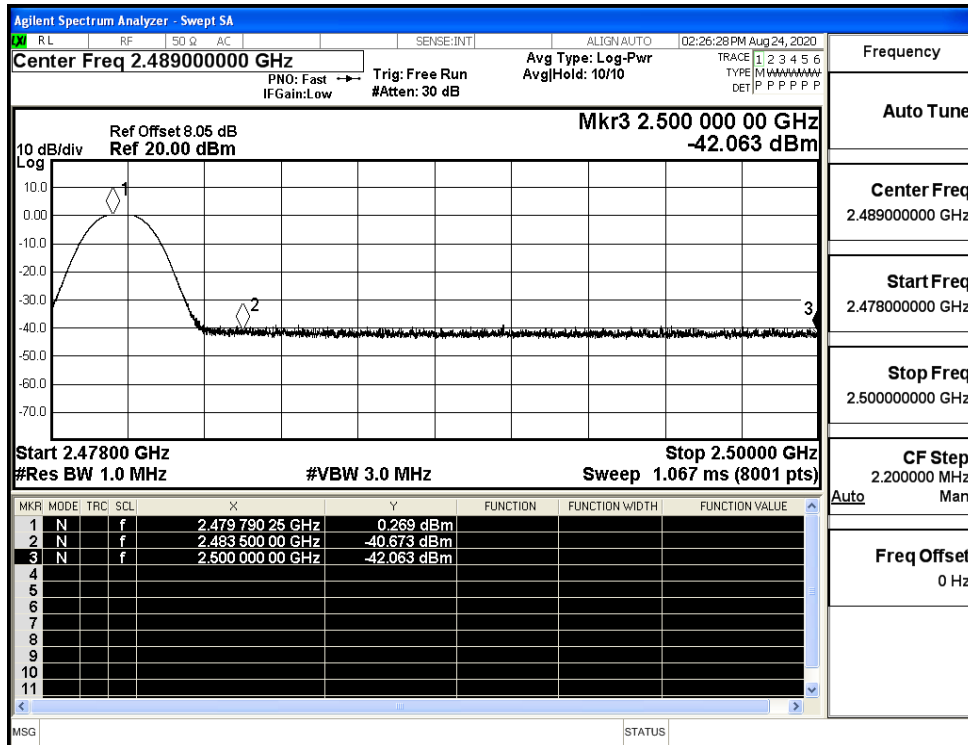
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

