

Appendix D

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

Product Name: KE2 Edge Manager Cell

Trade Mark: KE2, KE2 Connect, KE2 Therm

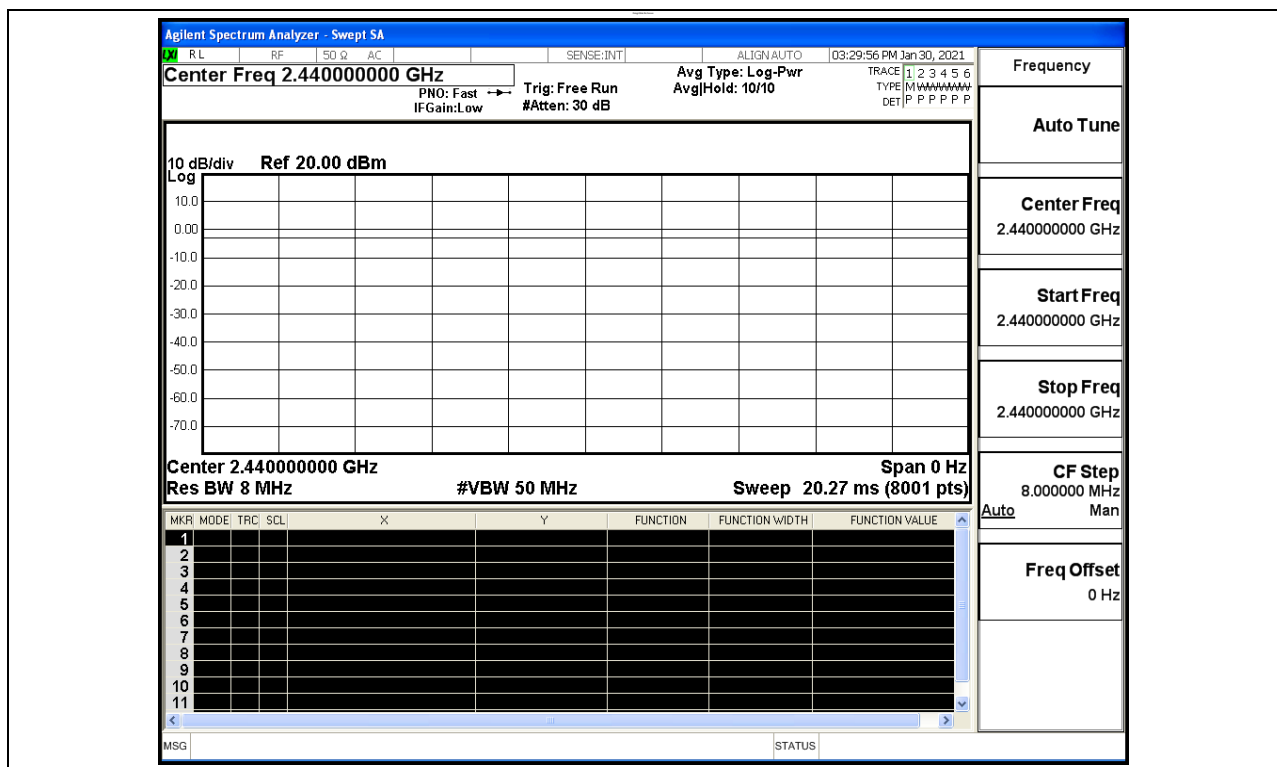
Test Model: KE2EM-Cell

Environmental Conditions

Environmental Conditions	
Temperature:	23.7 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

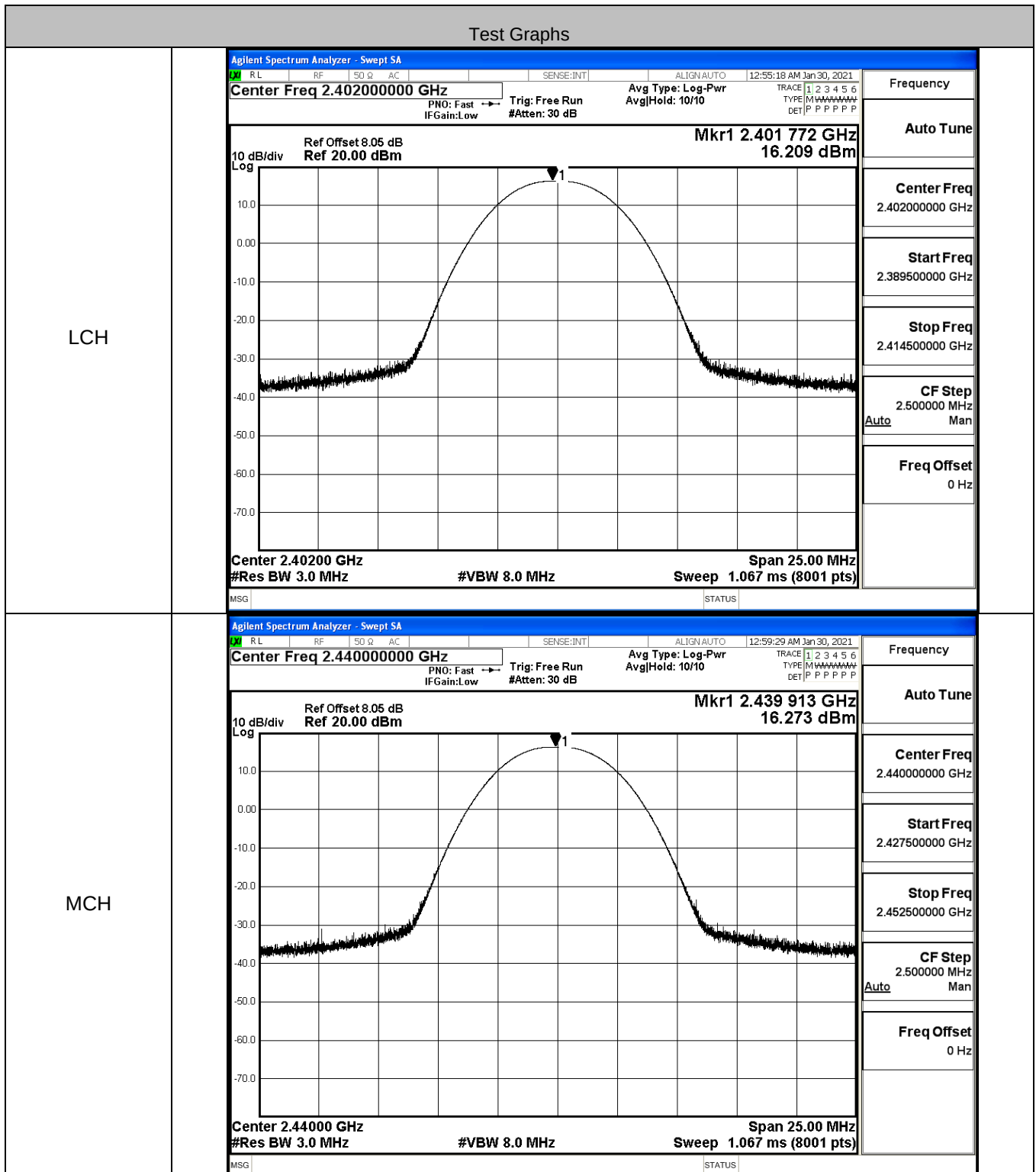
D.1 Duty Cycle

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

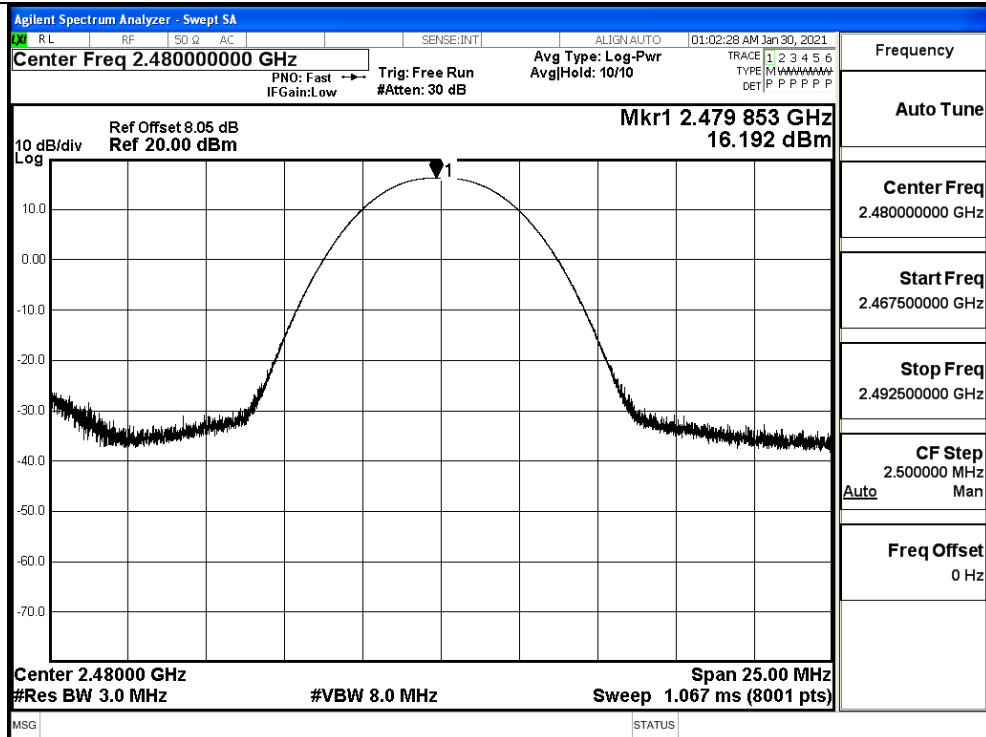


D.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	16.209	30	PASS
BT LE	MCH	16.273	30	PASS
BT LE	HCH	16.192	30	PASS

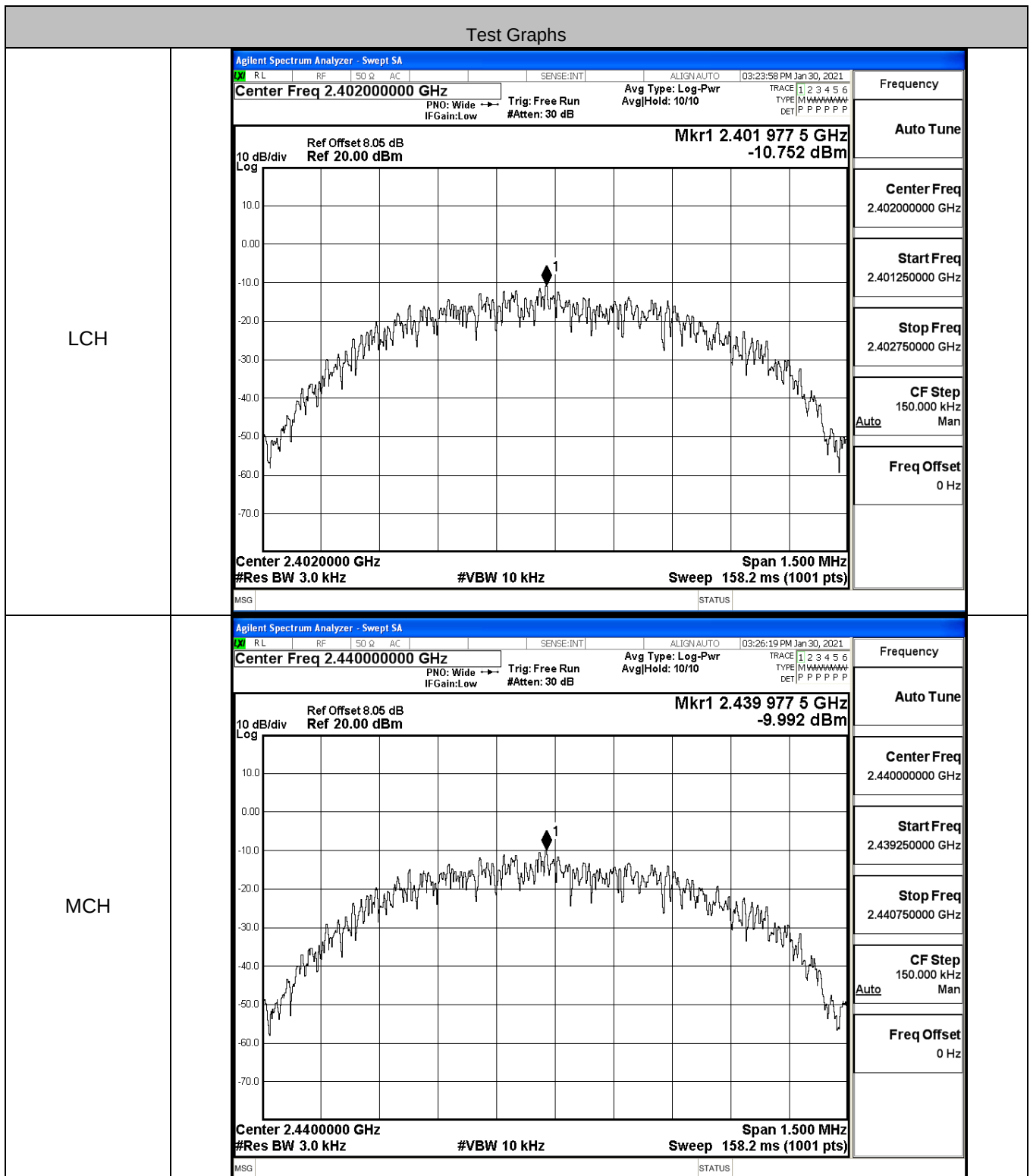


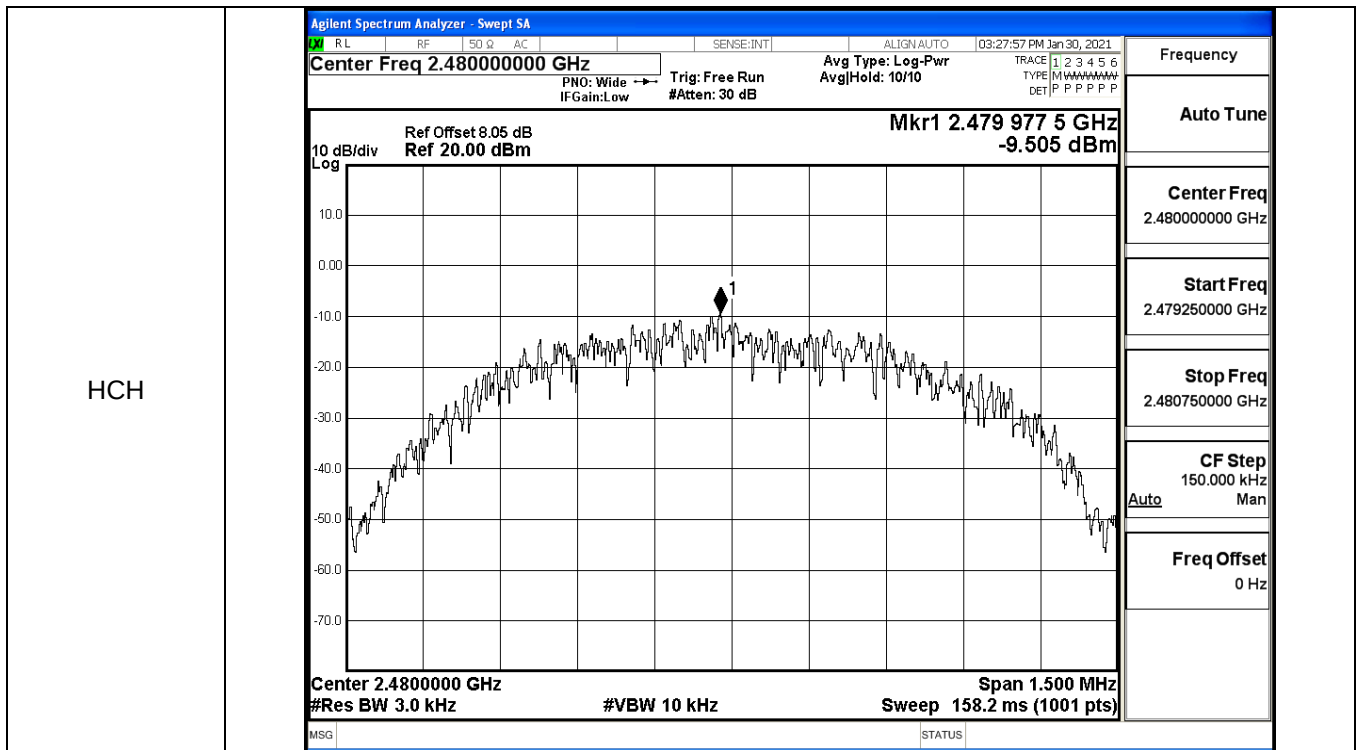
HCH



D.3 Maximum Power Spectral Density

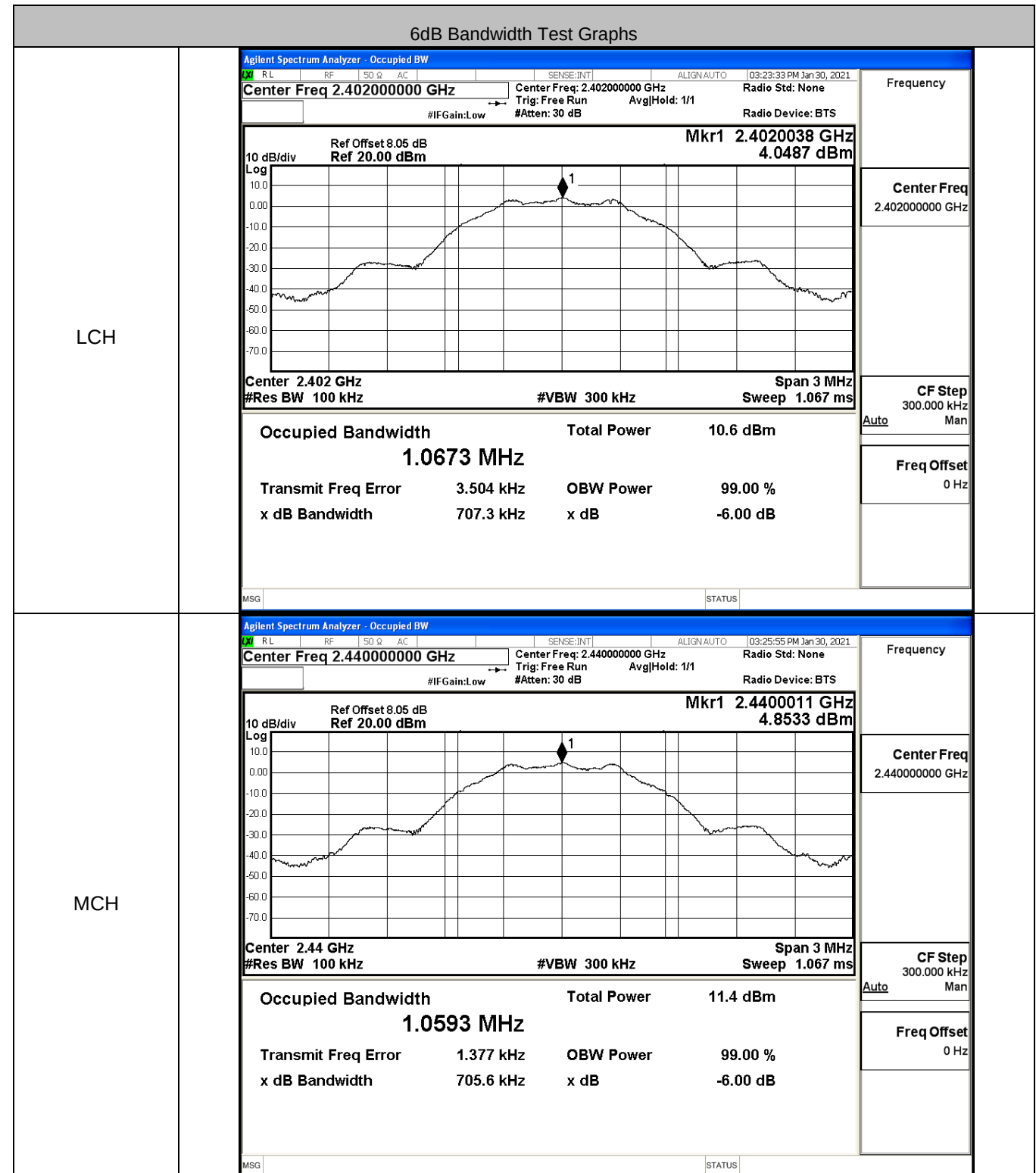
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-10.752	8	PASS
BT LE	MCH	-9.992	8	PASS
BT LE	HCH	-9.505	8	PASS



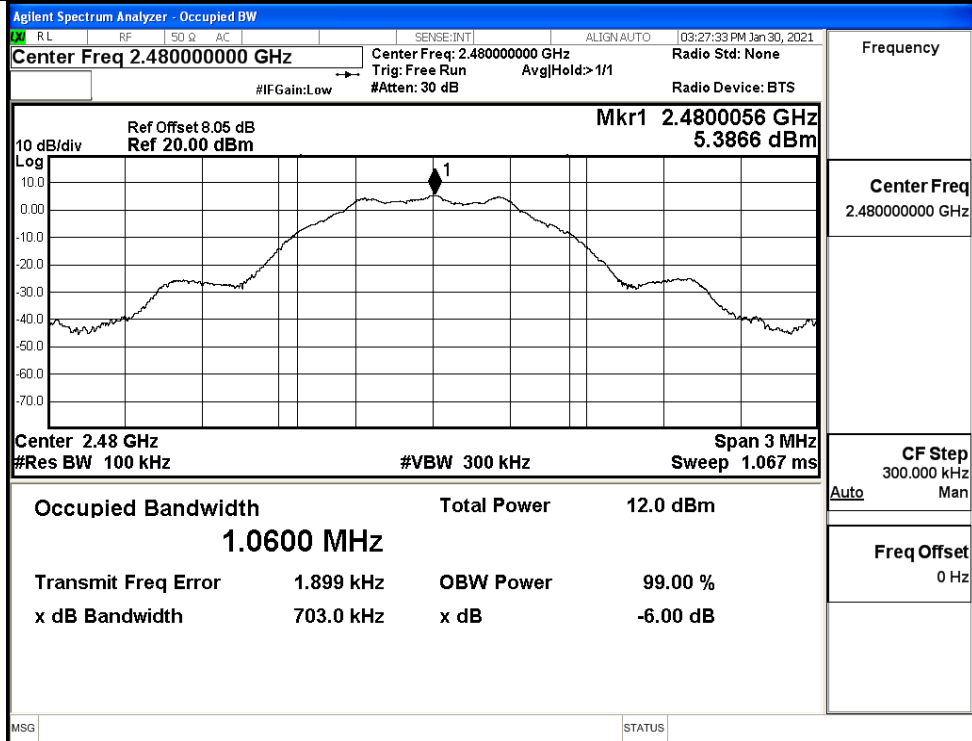


D.4 6dB Bandwidth& Occupied Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Occupied Bandwidth[MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7073	1.0423	≥ 0.5	PASS
BT LE	MCH	0.7056	1.0411	≥ 0.5	PASS
BT LE	HCH	0.7030	1.0391	≥ 0.5	PASS

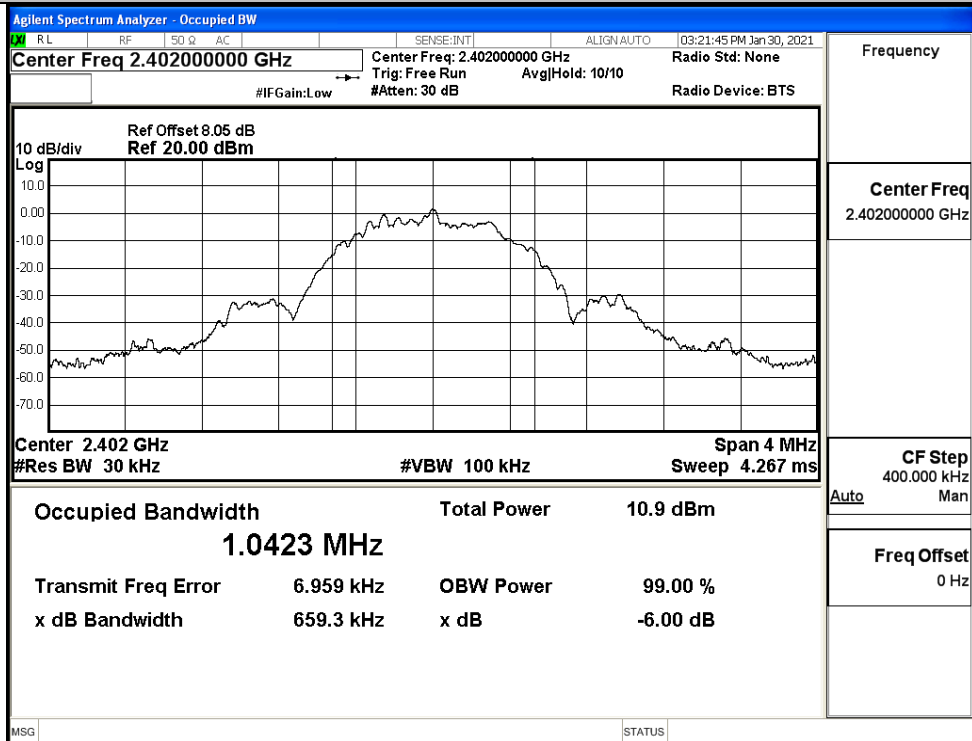


HCH



Occupied Bandwidth Test Graphs

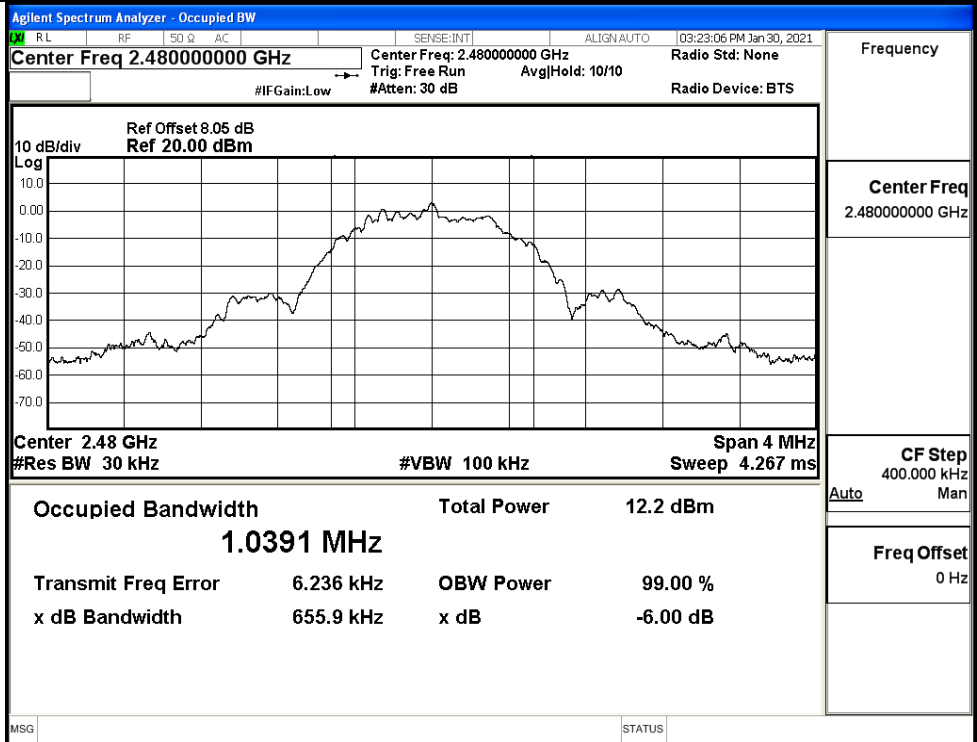
LCH



MCH

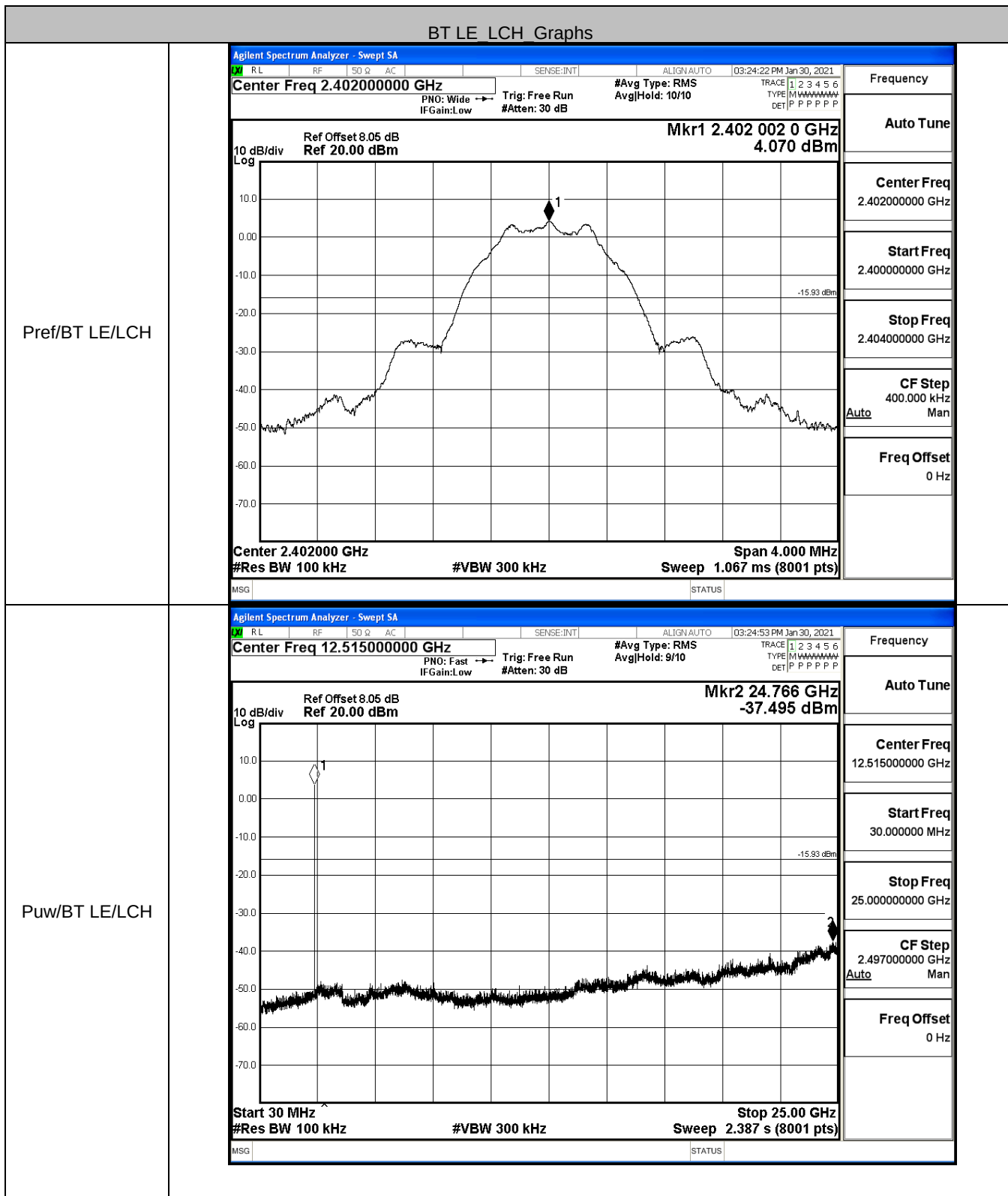


HCH



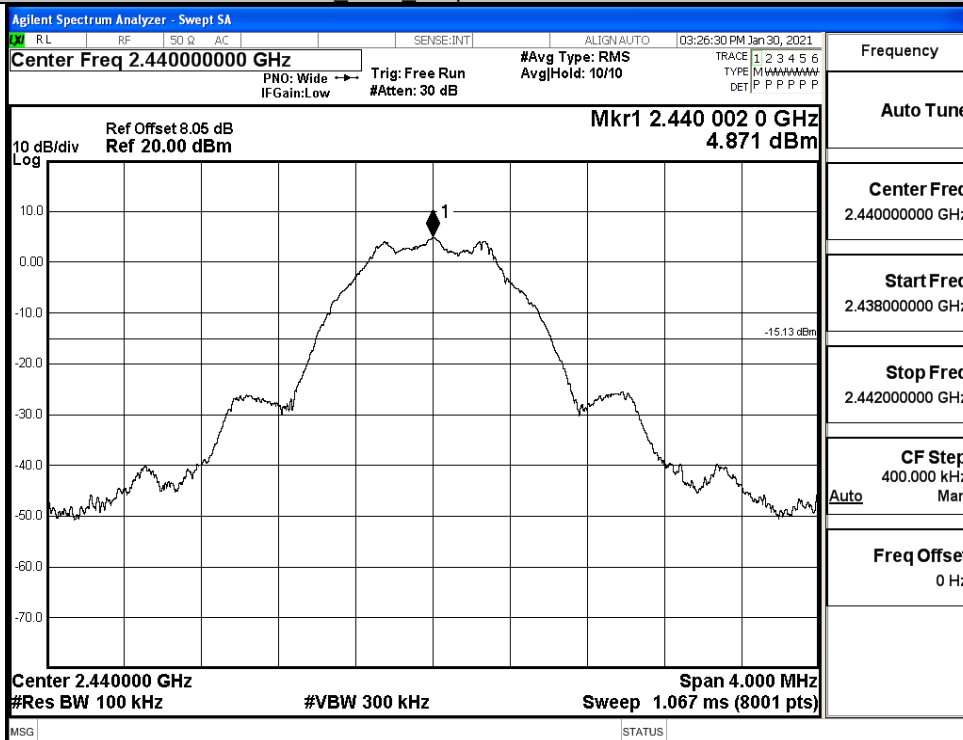
D.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	4.07	-37.495	-15.930	PASS
BT LE	MCH	4.871	-37.257	-15.129	PASS
BT LE	HCH	5.408	-37.709	-14.592	PASS

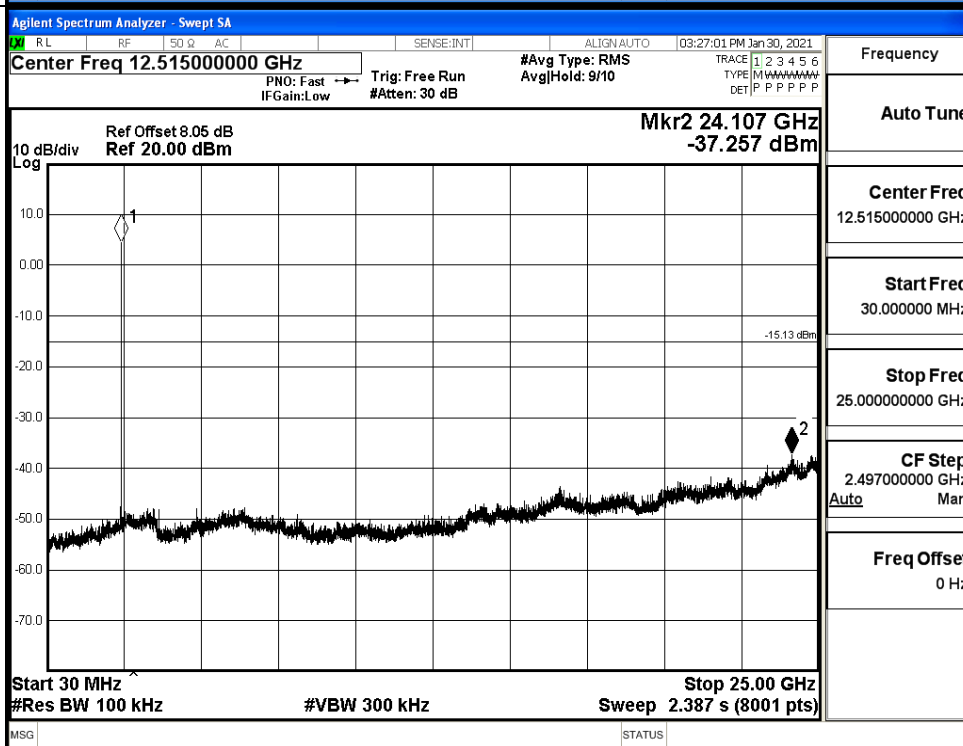


BT LE MCH Graphs

Pref/BT LE/MCH

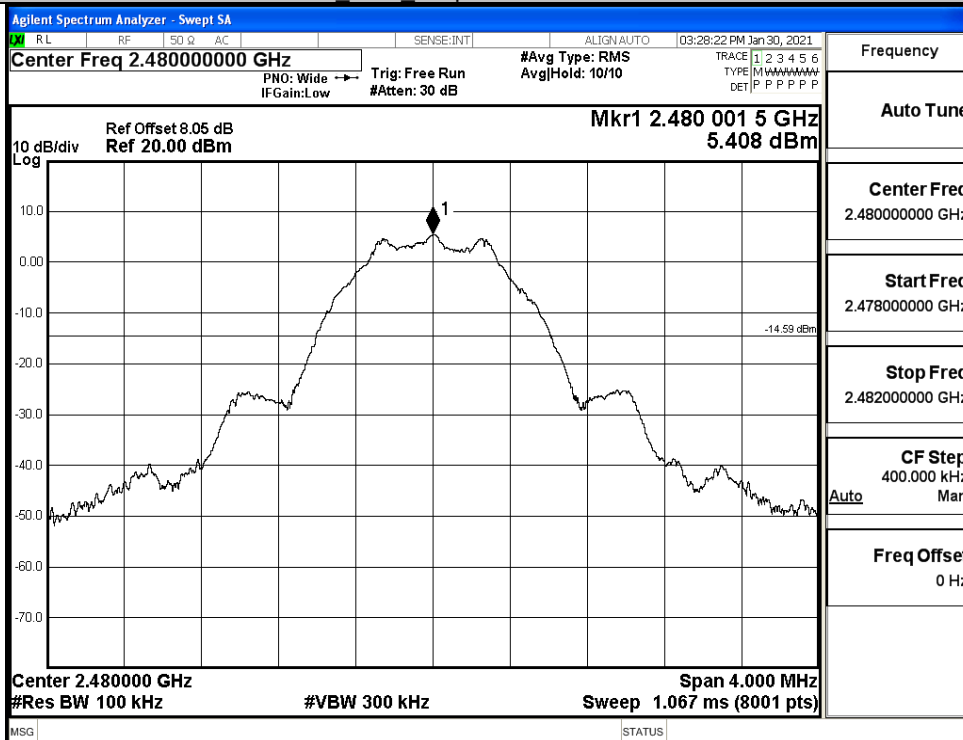


Puw/BT LE/MCH

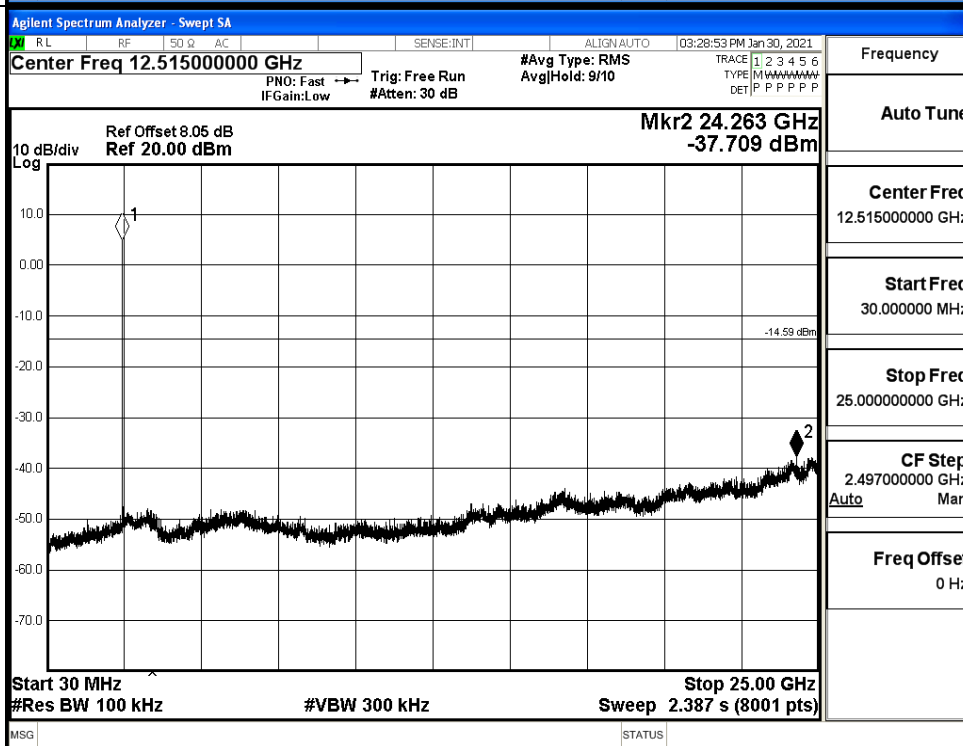


BT LE HCH Graphs

Pref/BT LE/HCH

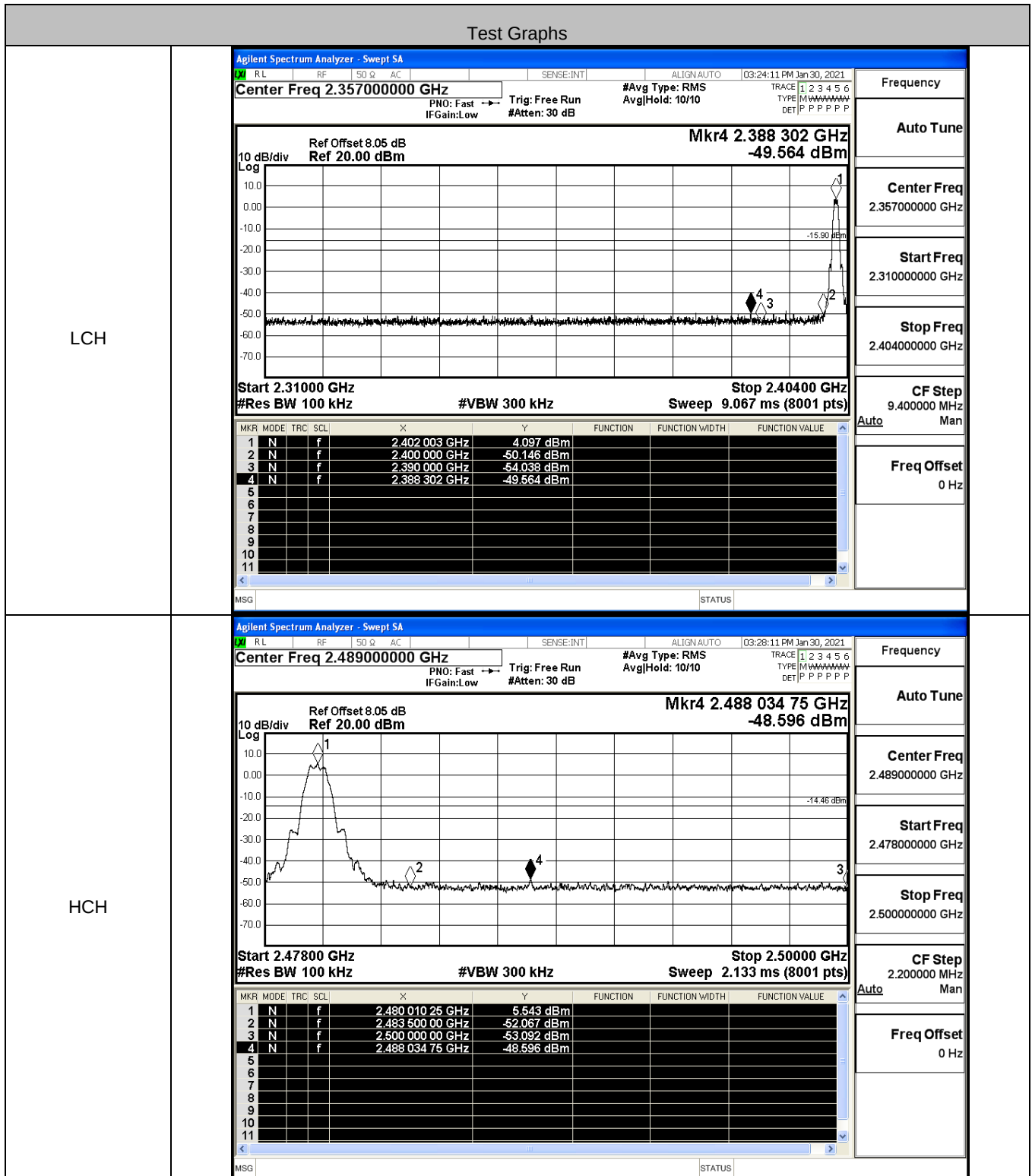


Puw/BT LE/HCH



D.6 Band-edge for RF Conducted Emissions

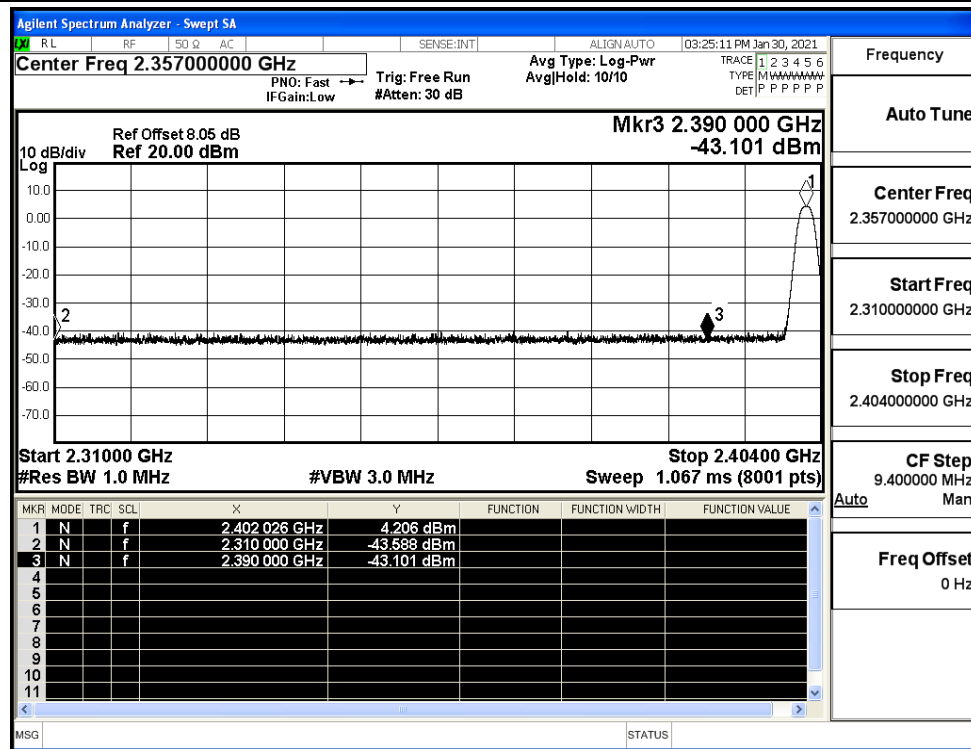
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	4.097	-49.564	-15.9	PASS
BT LE	HCH	5.543	-48.596	-14.46	PASS



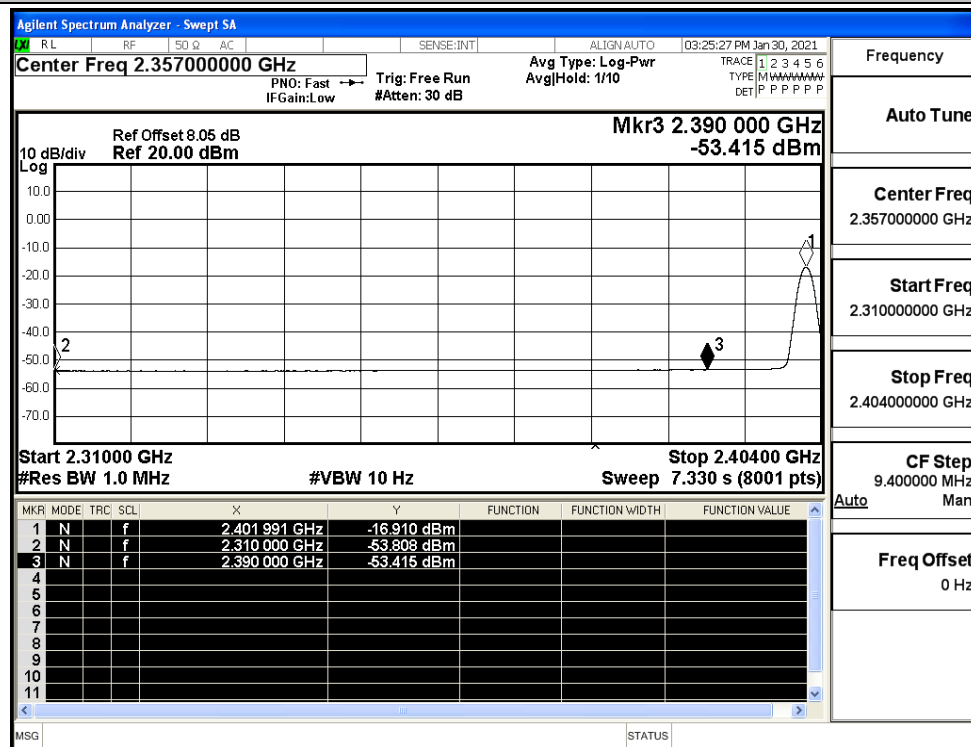
D.7 Restrict-band band-edge measurements

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	-43.59	2.0	0	53.67	PEAK	74	PASS
		Ant1	2310.0	-53.81	2.0	0	43.45	AV	54	PASS
		Ant1	2390.0	-43.10	2.0	0	54.16	PEAK	74	PASS
		Ant1	2390.0	-53.42	2.0	0	43.84	AV	54	PASS
	2480	Ant1	2483.5	-40.52	2.0	0	56.74	PEAK	74	PASS
		Ant1	2483.5	-52.54	2.0	0	44.72	AV	54	PASS
		Ant1	2500.0	-41.13	2.0	0	56.13	PEAK	74	PASS
		Ant1	2500.0	-52.79	2.0	0	44.47	AV	54	PASS

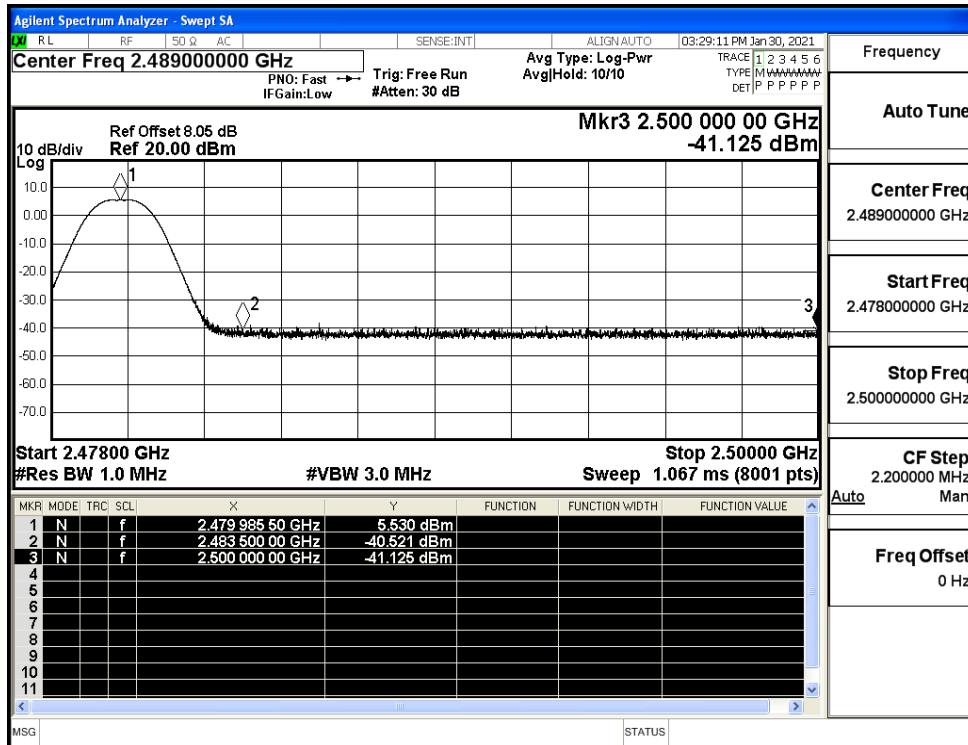
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

