



Appendix A

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

Product Name: Intelligent Planter

Trade Mark: N/A

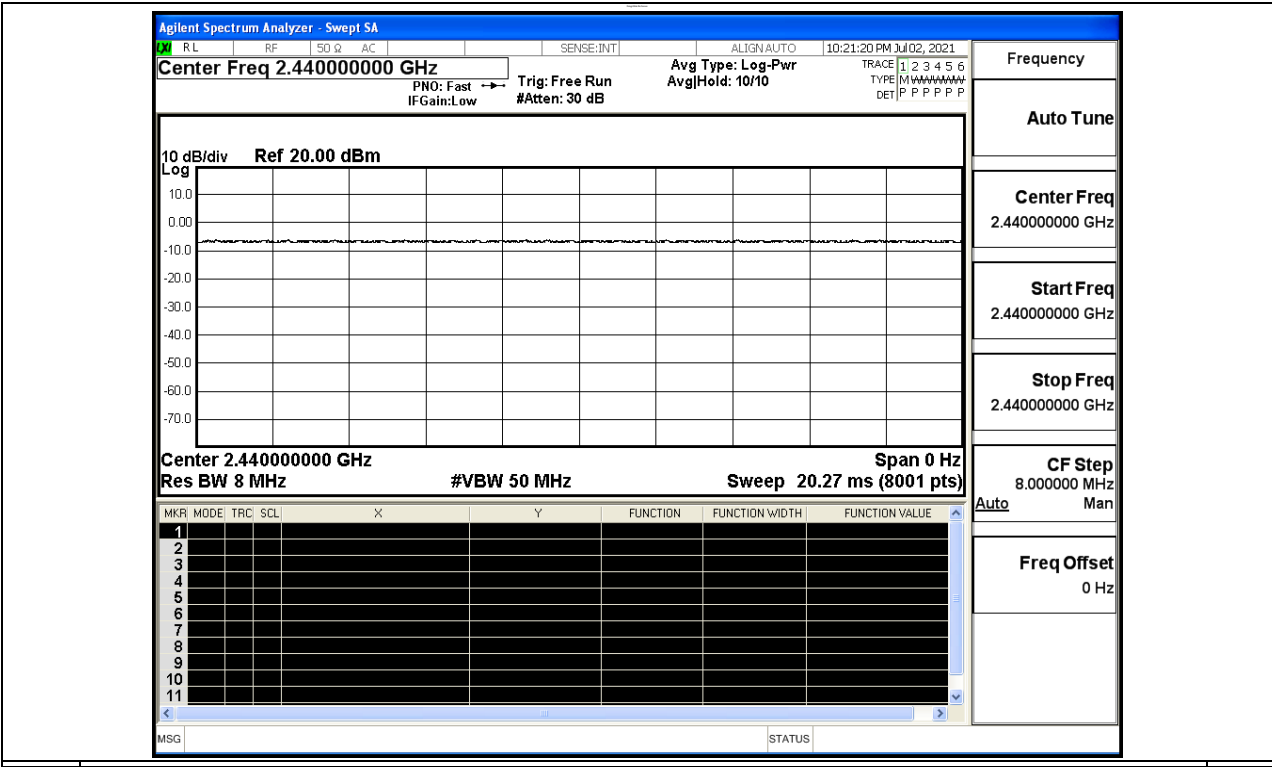
Test Model: Z206 WIFI

Environmental Conditions

Temperature:	21.6° C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan

A.1 Duty Cycle

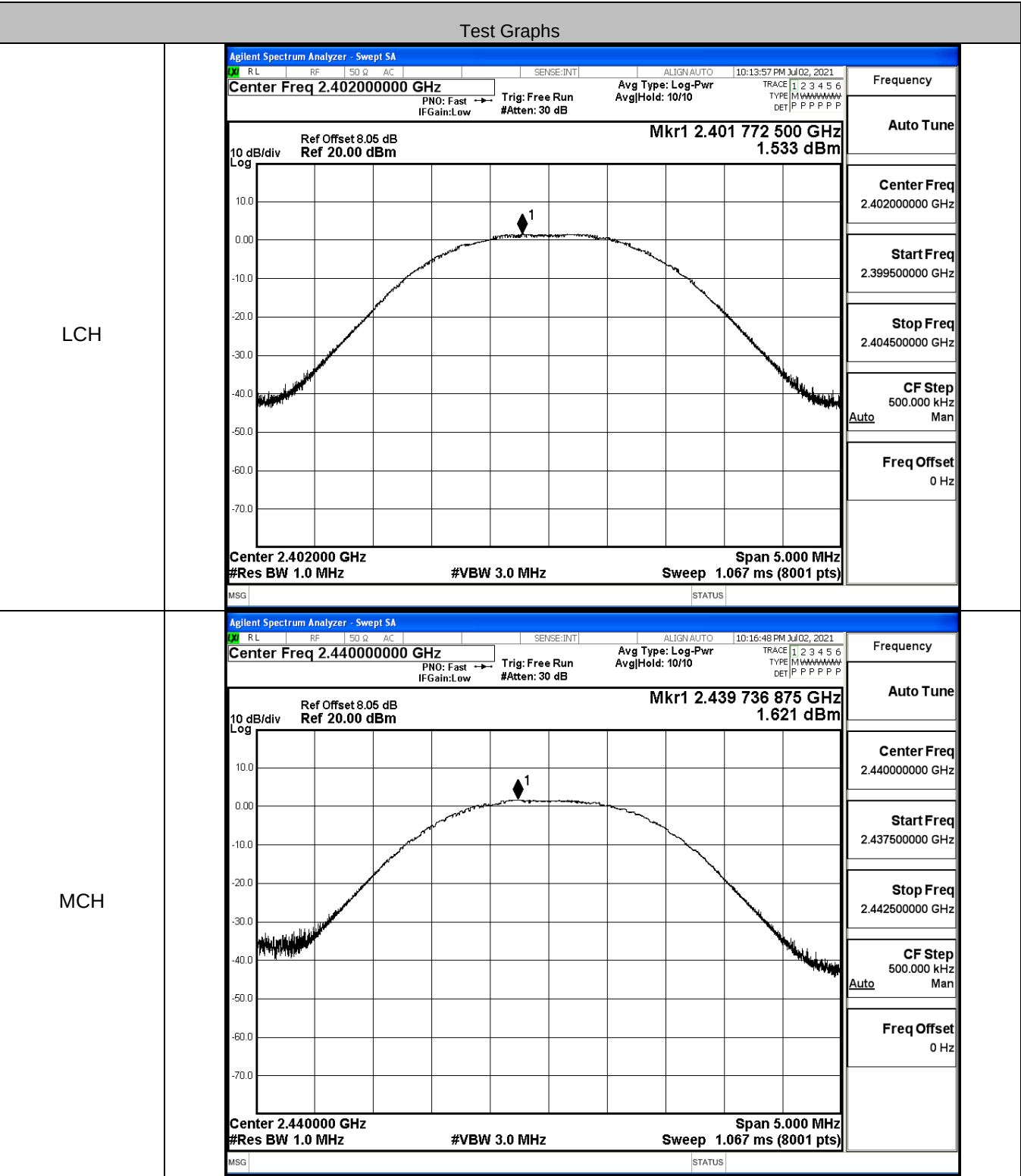
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS

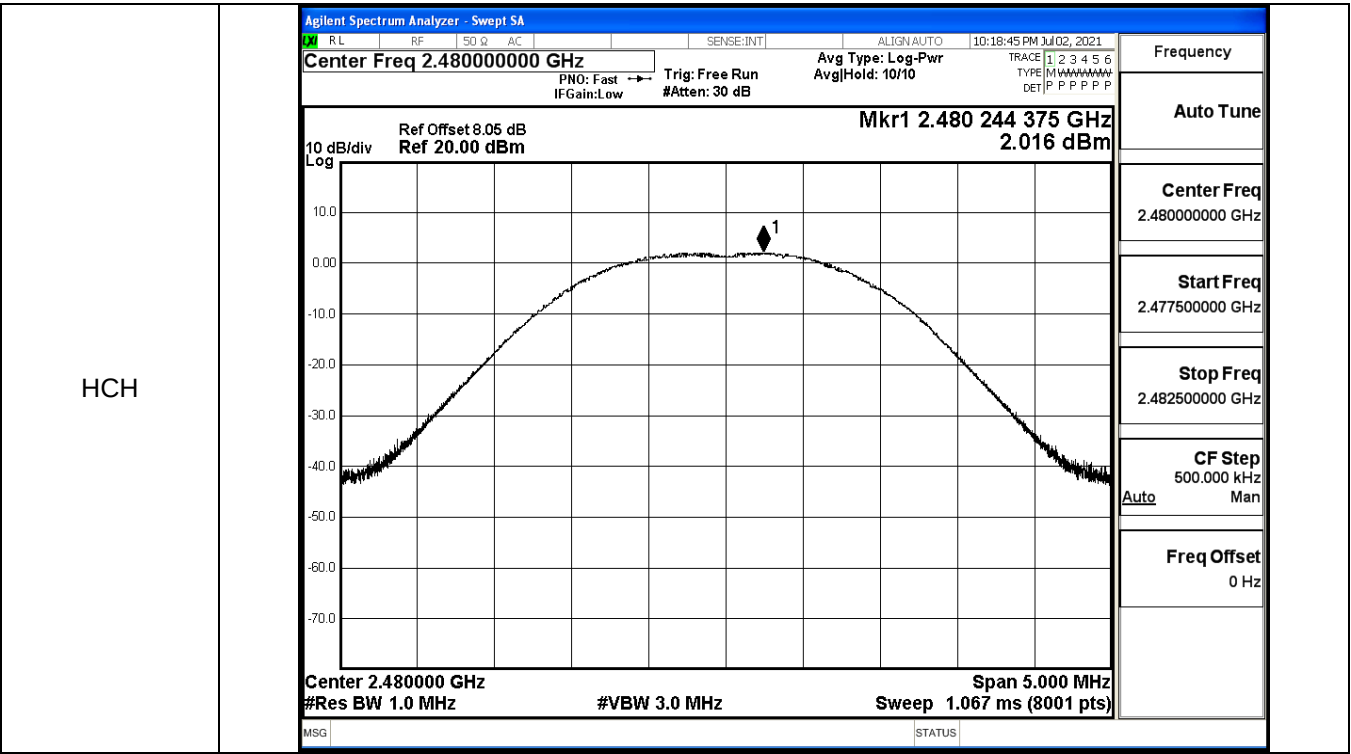




A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.533	30	PASS
BT LE	MCH	1.621	30	PASS
BT LE	HCH	2.016	30	PASS

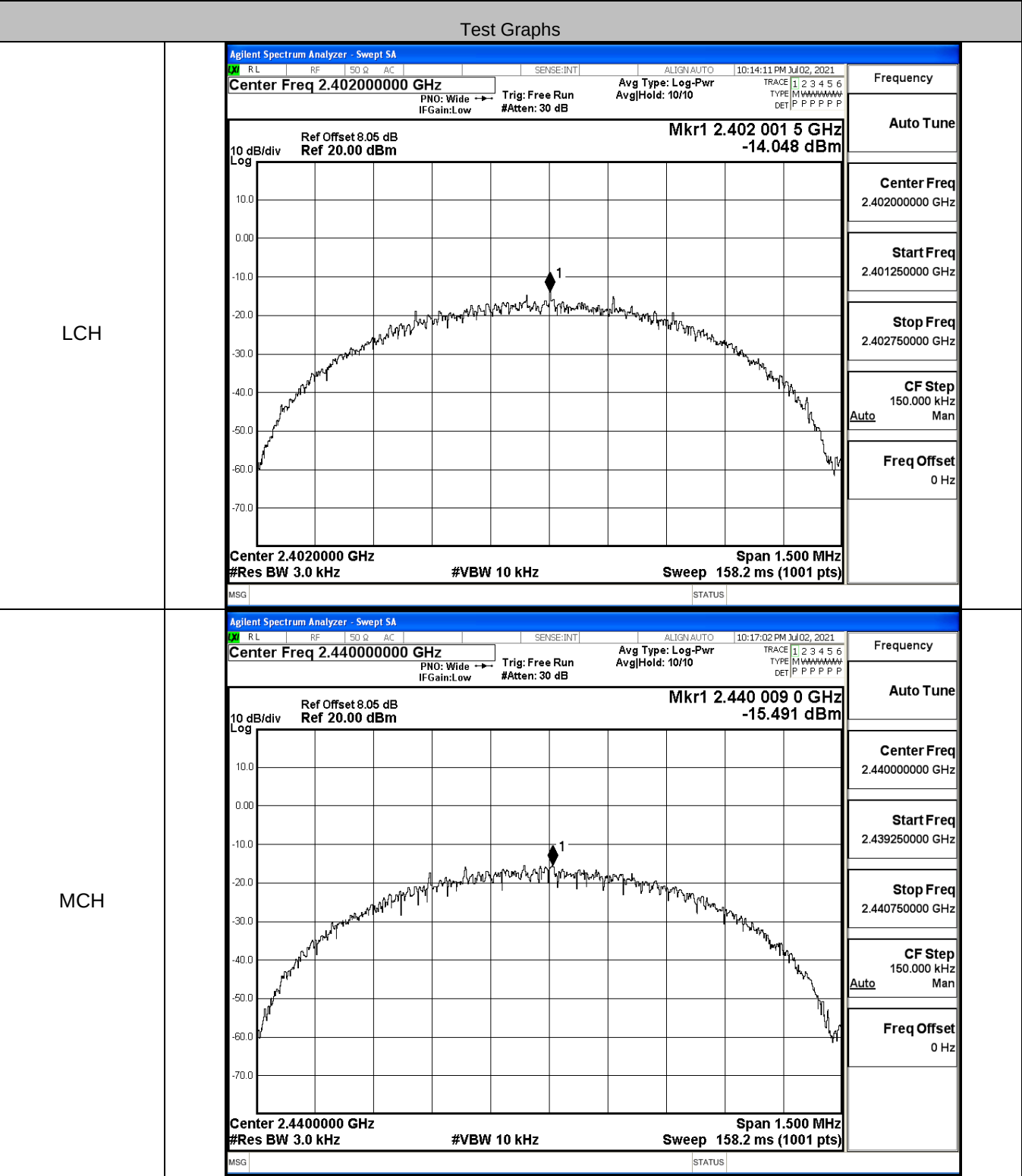


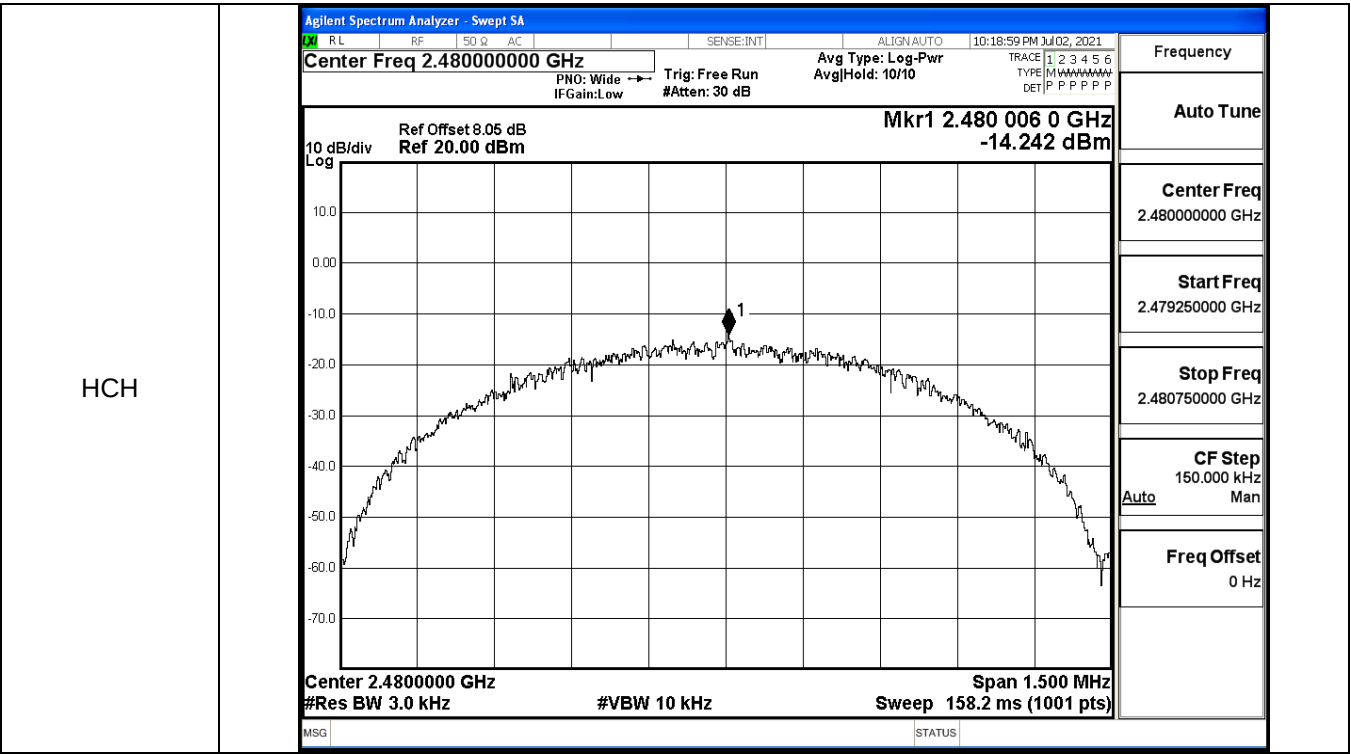




A.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.048	8	PASS
BT LE	MCH	-15.491	8	PASS
BT LE	HCH	-14.242	8	PASS

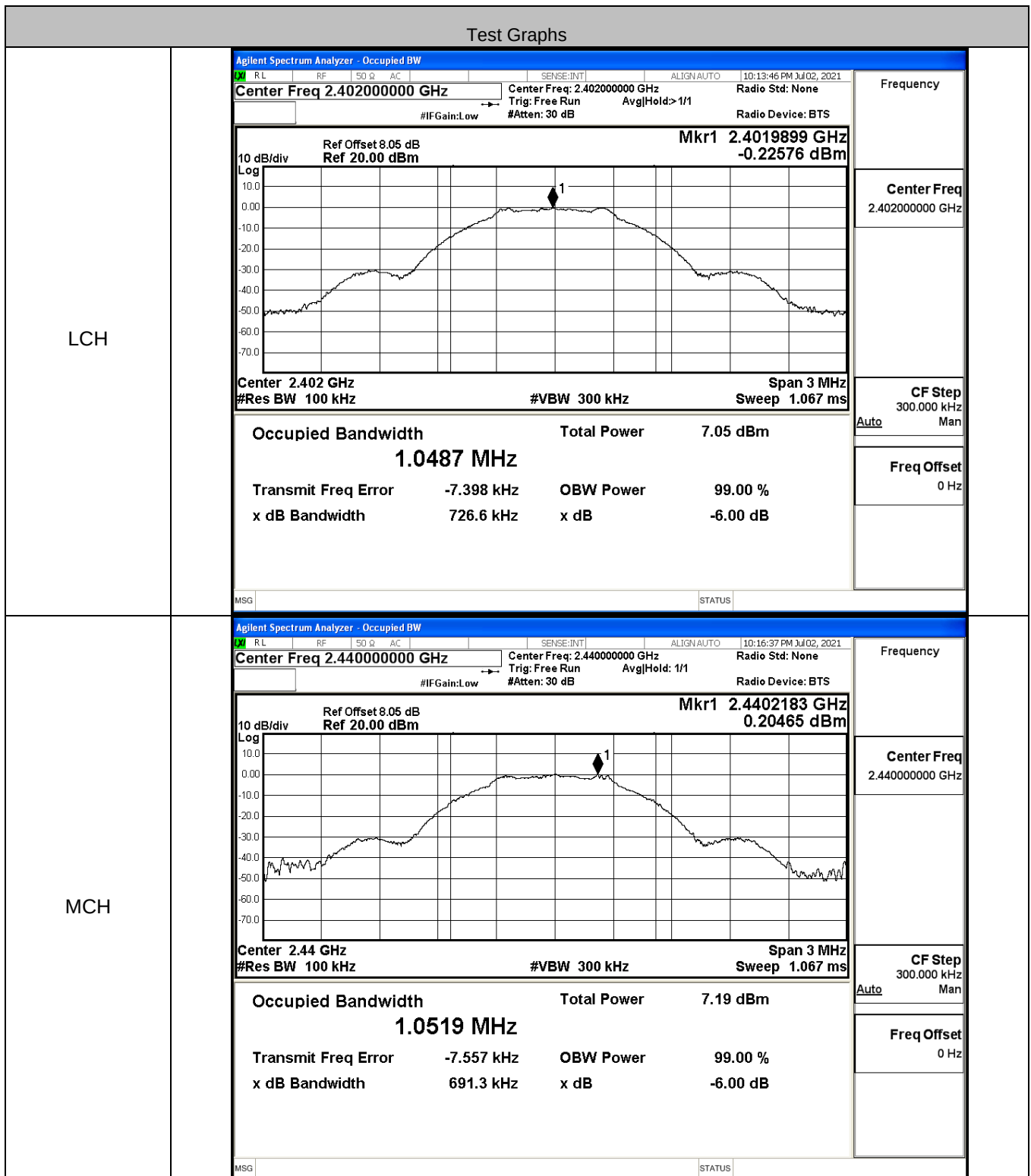


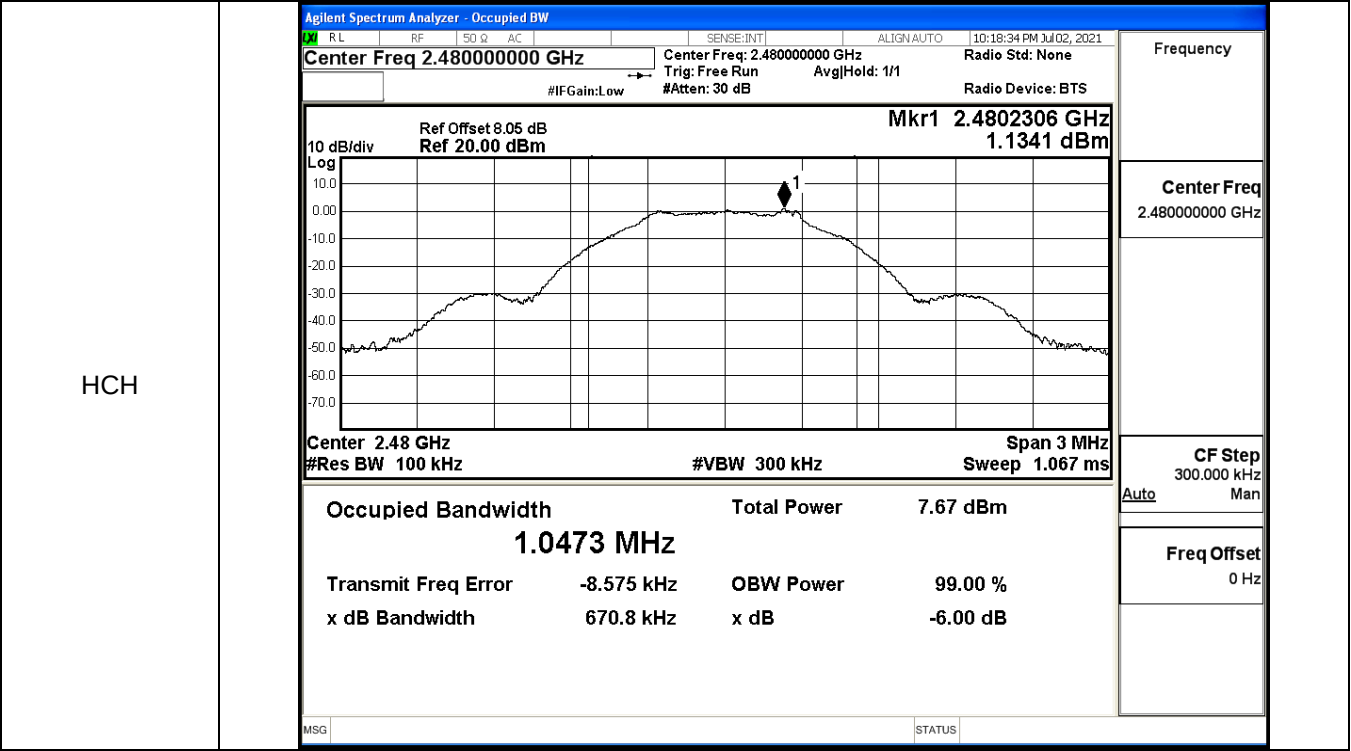




A.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7266	≥ 0.5	PASS
BT LE	MCH	0.6913	≥ 0.5	PASS
BT LE	HCH	0.6708	≥ 0.5	PASS

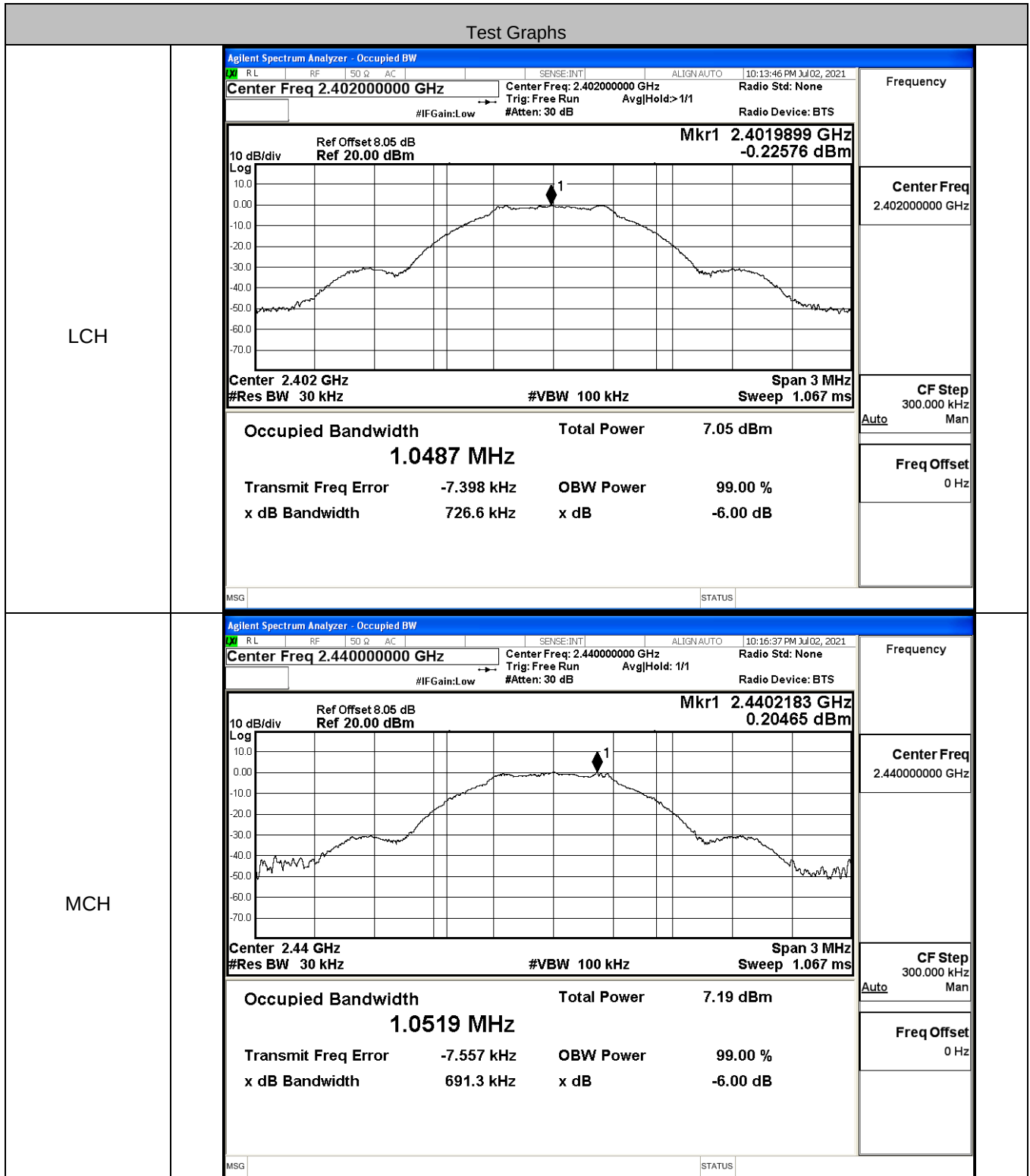


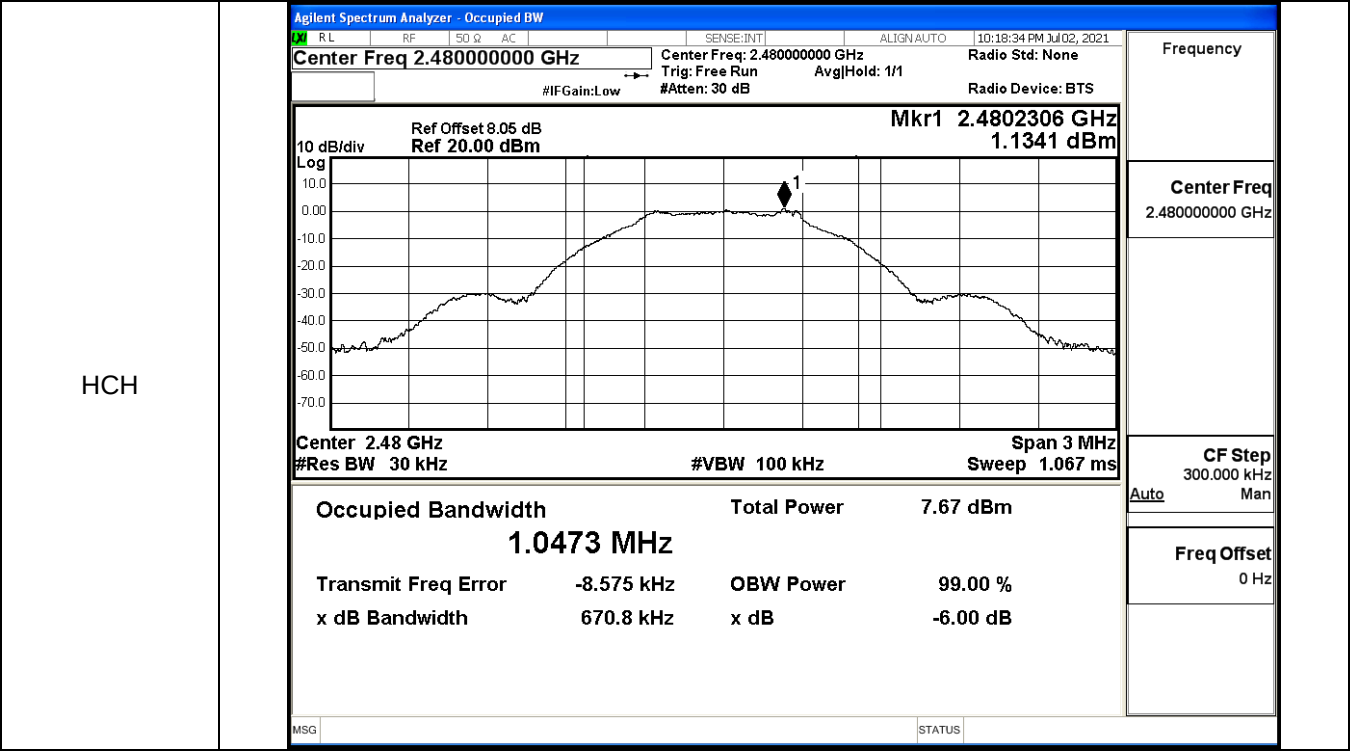




A.5 Occupied Bandwidth

Mode	Channel	99% Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.0487	/	PASS
BT LE	MCH	1.0591	/	PASS
BT LE	HCH	1.0473	/	PASS

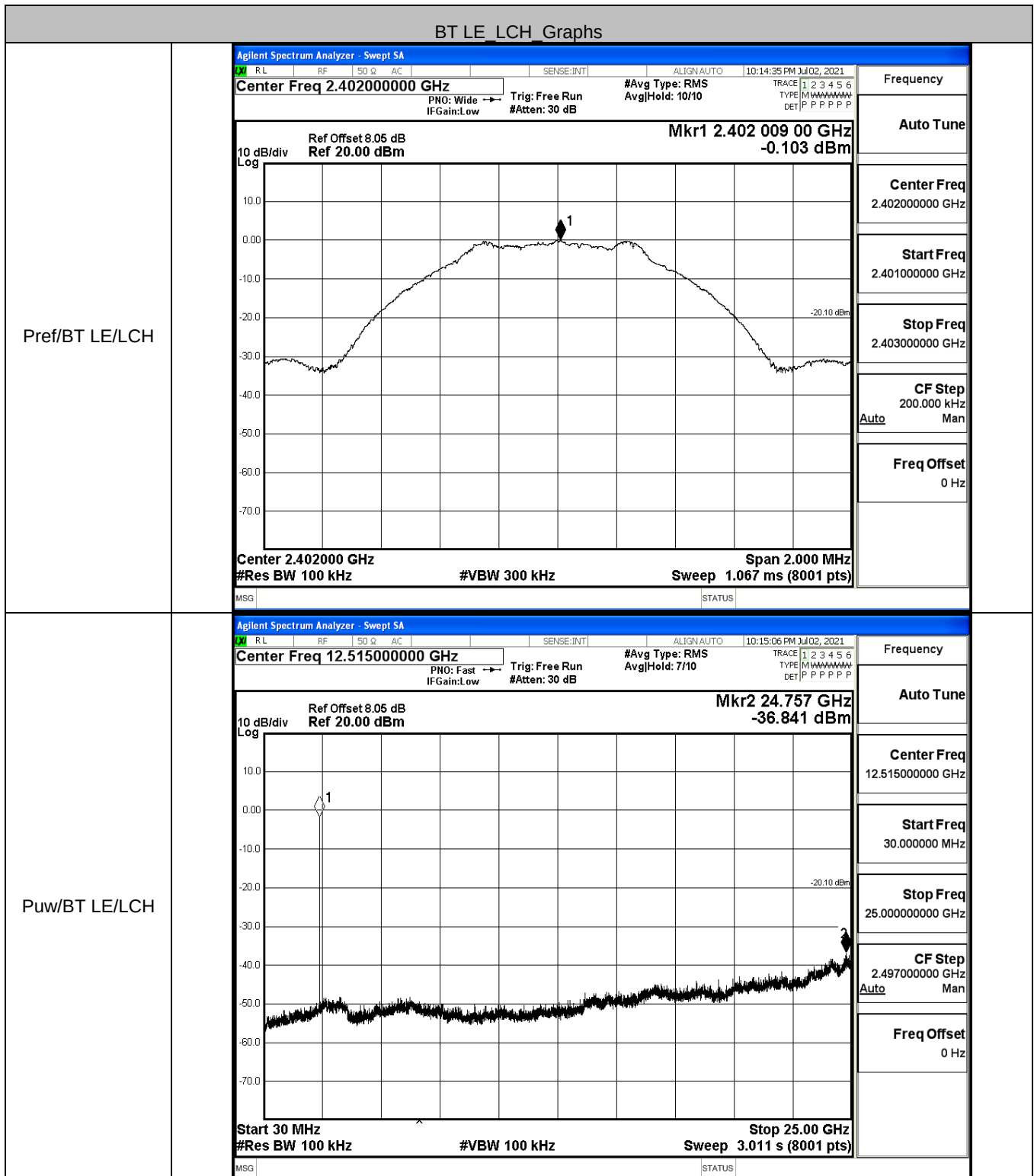






A.6 RF Conducted Spurious Emissions

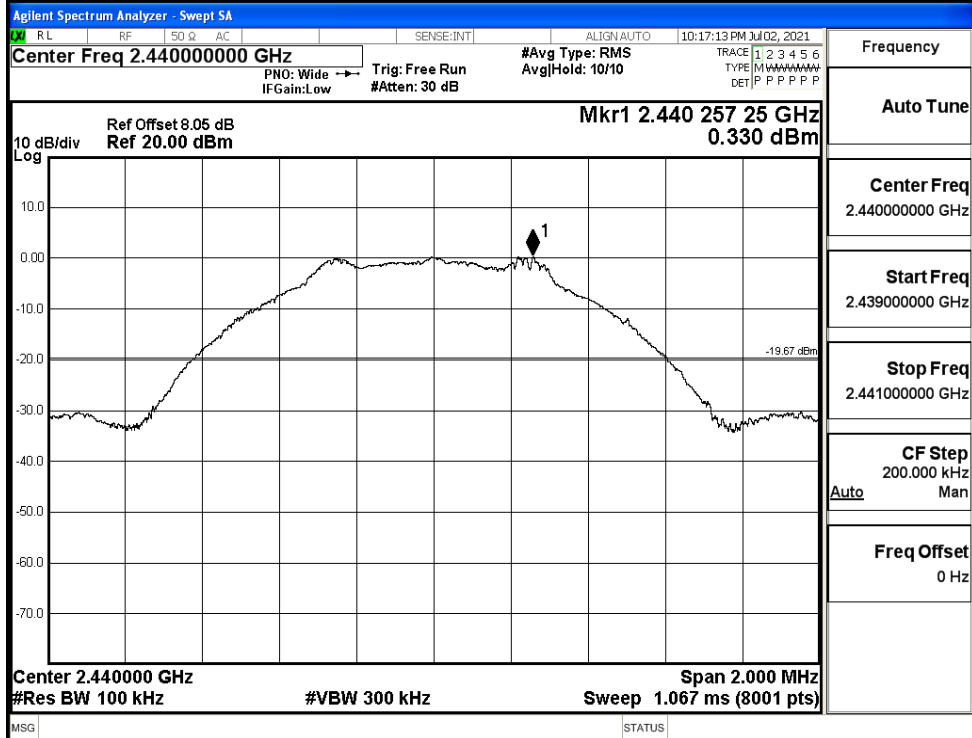
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.103	-36.841	-20.103	PASS
BT LE	MCH	0.33	-37.652	-19.670	PASS
BT LE	HCH	1.267	-36.669	-18.733	PASS



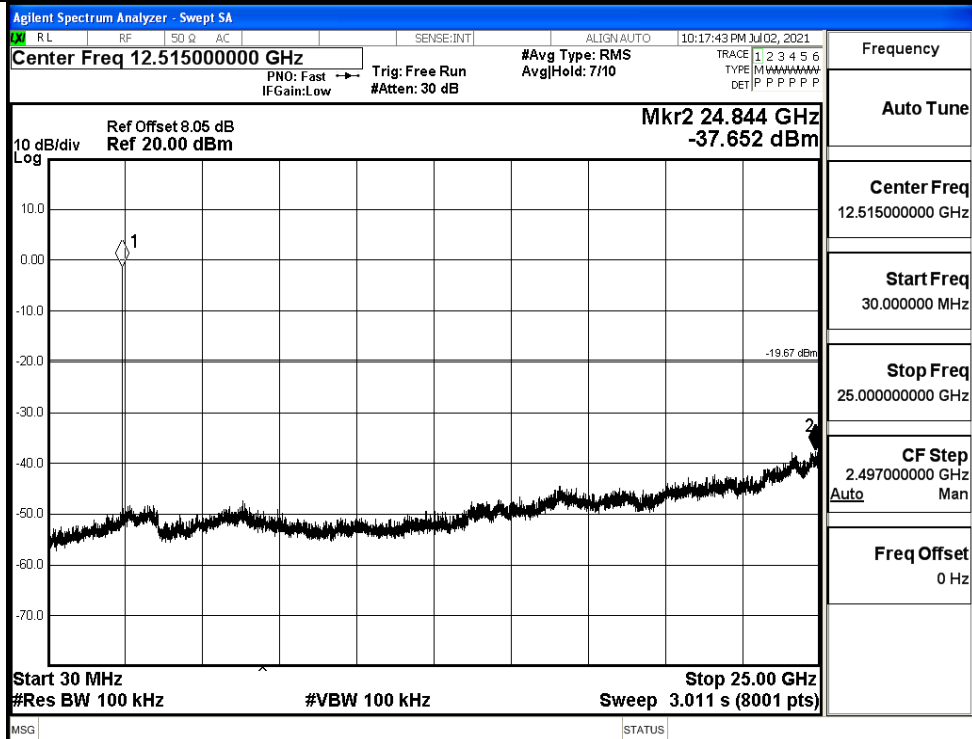


BT LE MCH Graphs

Pref/BT LE/MCH



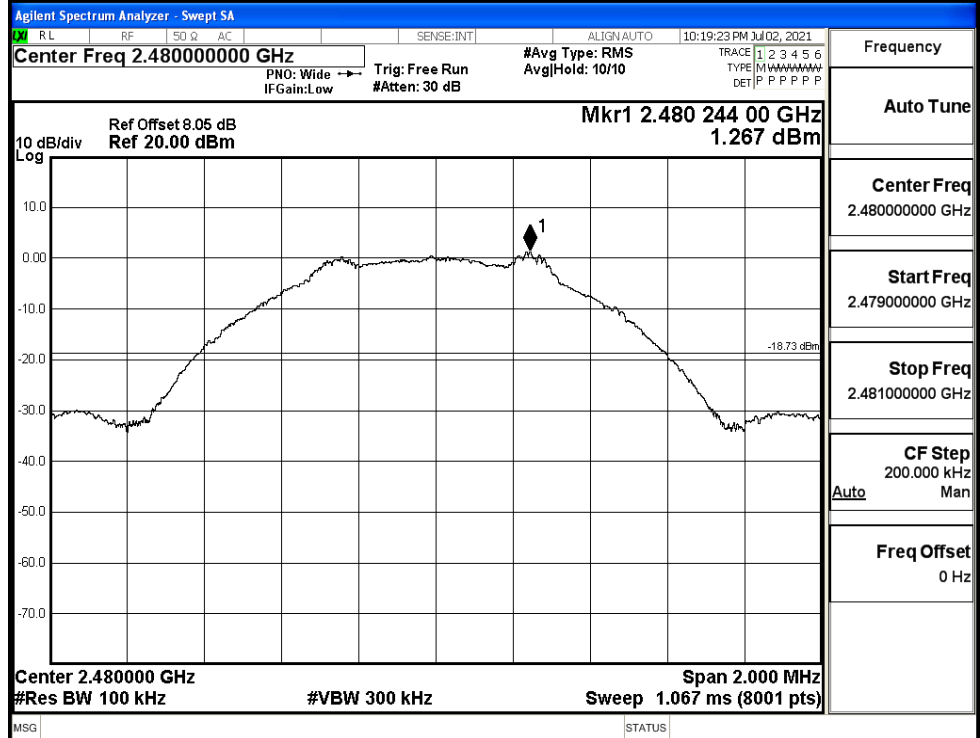
Puw/BT LE/MCH



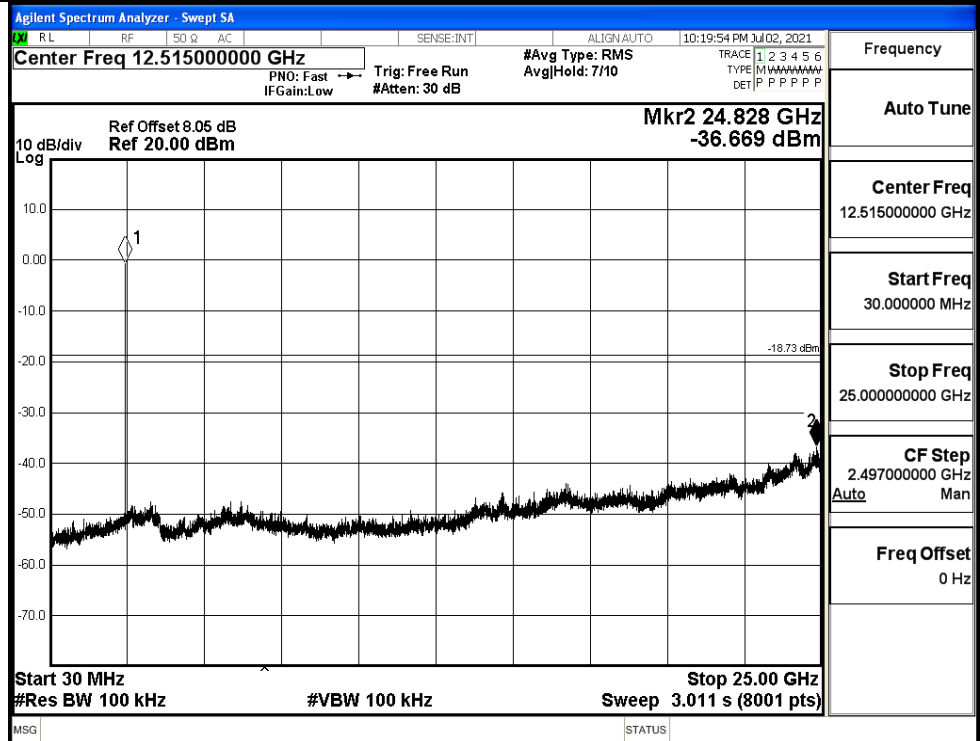


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH





A.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.274	-50.136	-20.27	PASS
BT LE	HCH	1.008	-48.938	-18.99	PASS

Test Graphs					
LCH		Agilent Spectrum Analyzer - Swept SA			
		Center Freq 2.357000000 GHz Ref Offset 8.05 dB Ref 20.00 dBm Mkr4 2.371 641 GHz -50.136 dBm Start 2.31000 GHz #Res BW 100 kHz #VBW 300 kHz Stop 2.40400 GHz Sweep 9.067 ms (8001 pts)			
HCH		Agilent Spectrum Analyzer - Swept SA			
		Center Freq 2.489000000 GHz Ref Offset 8.05 dB Ref 20.00 dBm Mkr4 2.497 269 25 GHz -48.938 dBm Start 2.47800 GHz #Res BW 100 kHz #VBW 300 kHz Stop 2.50000 GHz Sweep 2.133 ms (8001 pts)			

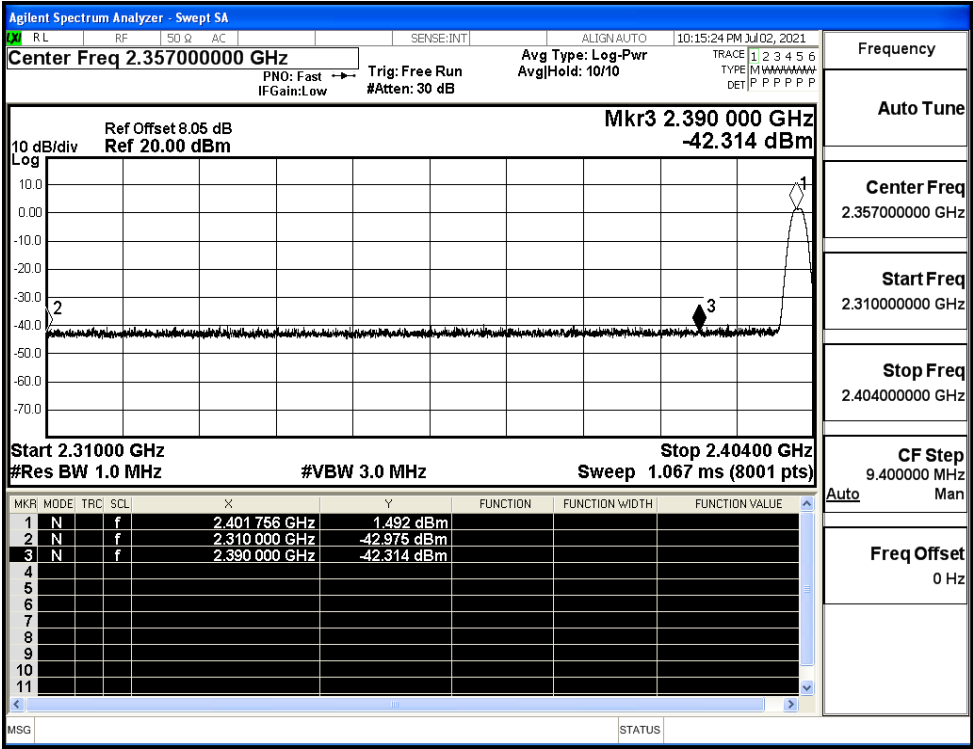


A.8 Restrict-band band-edge measurements

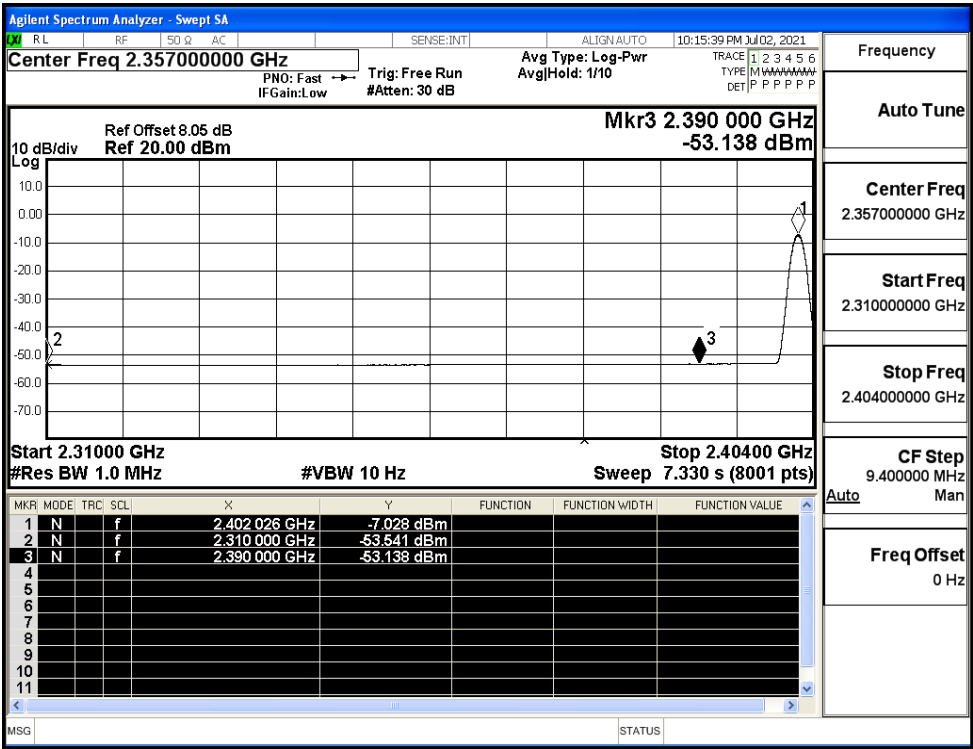
Test Mode	Test Channel	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
BT LE	2402	2310.0	-42.98	2.5	0	54.75	PEAK	74	PASS
		2310.0	-53.54	2.5	0	44.19	AV	54	PASS
		2390.0	-42.31	2.5	0	55.42	PEAK	74	PASS
		2390.0	-53.14	2.5	0	44.59	AV	54	PASS
	2480	2483.5	-42.39	2.5	0	55.34	PEAK	74	PASS
		2483.5	-52.63	2.5	0	45.10	AV	54	PASS
		2500.0	-43.44	2.5	0	54.29	PEAK	74	PASS
		2500.0	-52.52	2.5	0	45.21	AV	54	PASS



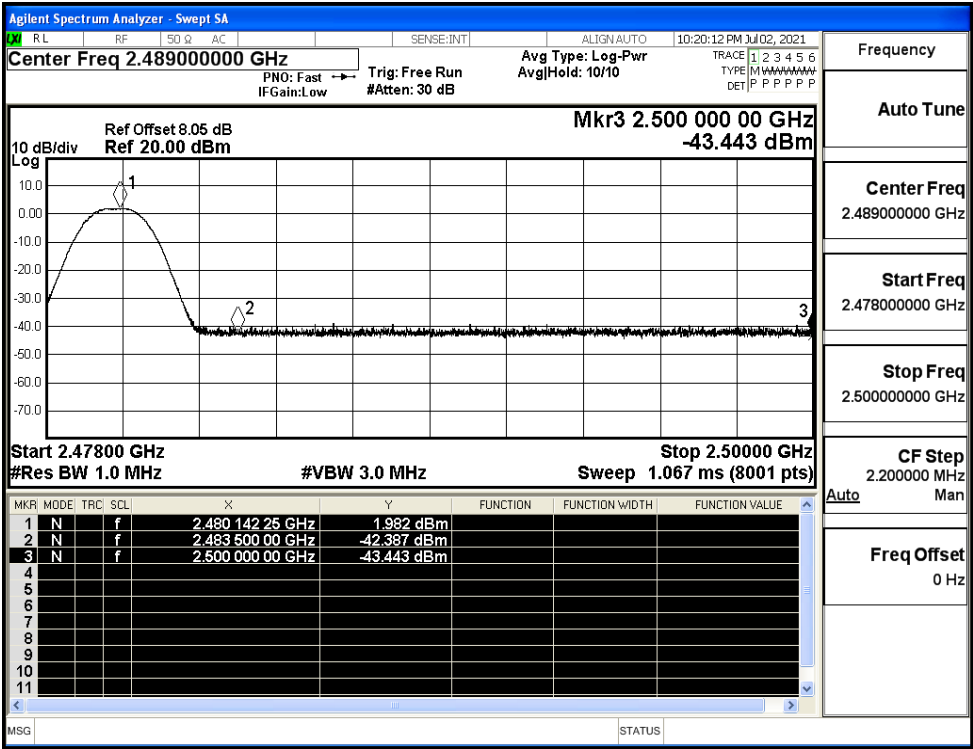
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

