

Appendix B

RF Test Data for BT V5.0(BLE) (Conducted Measurement)

Product Name: Wireless Speaker

Trade Mark: billboard

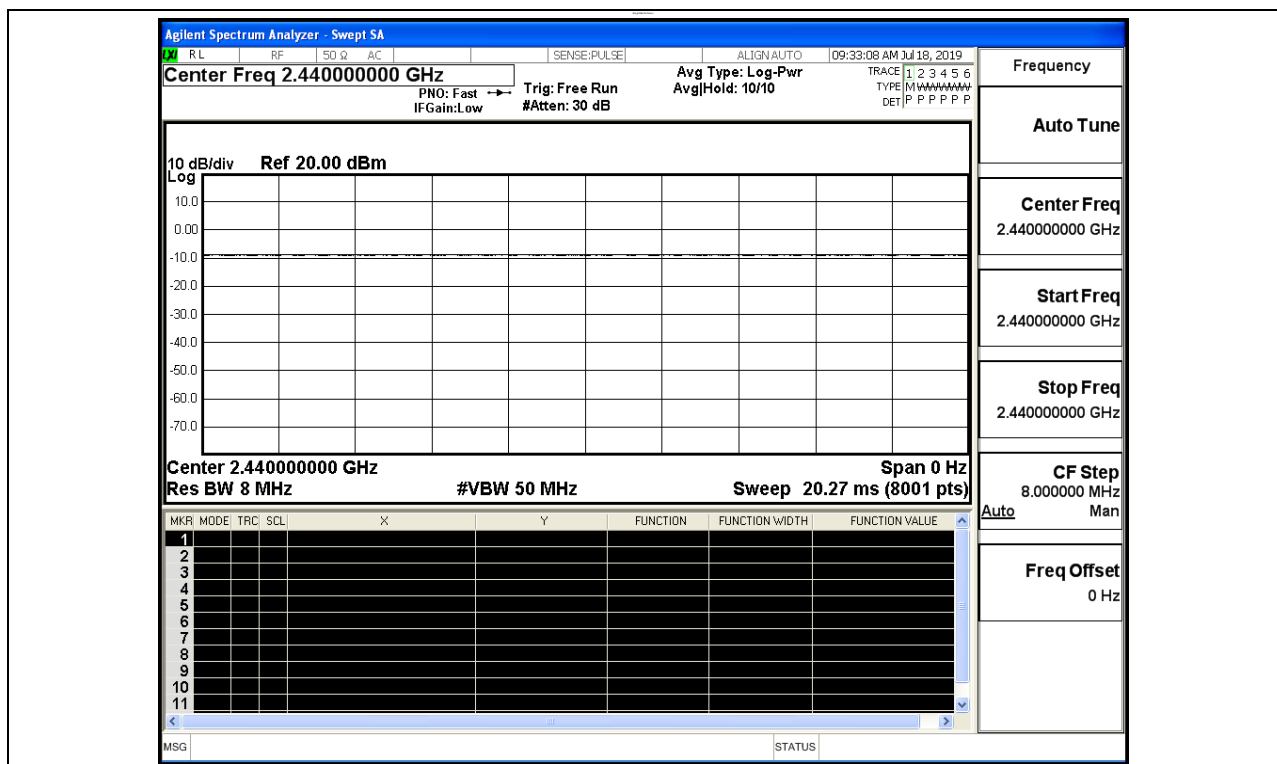
Test Model: BB1001

Environmental Conditions

Temperature:	23.4° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	SCENT HU
Supervised by:	Wang.Chuang

B.1 Duty Cycle

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

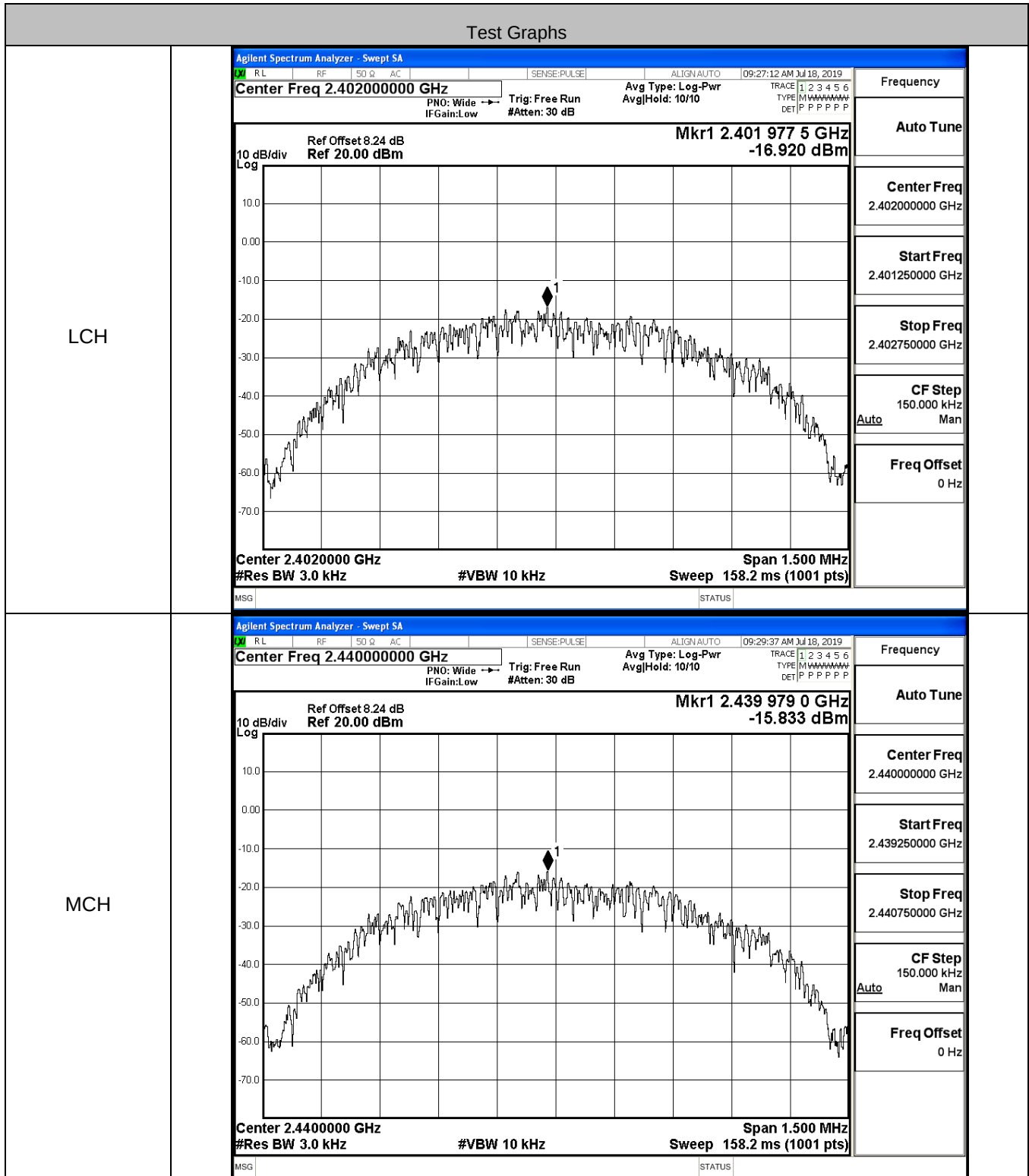


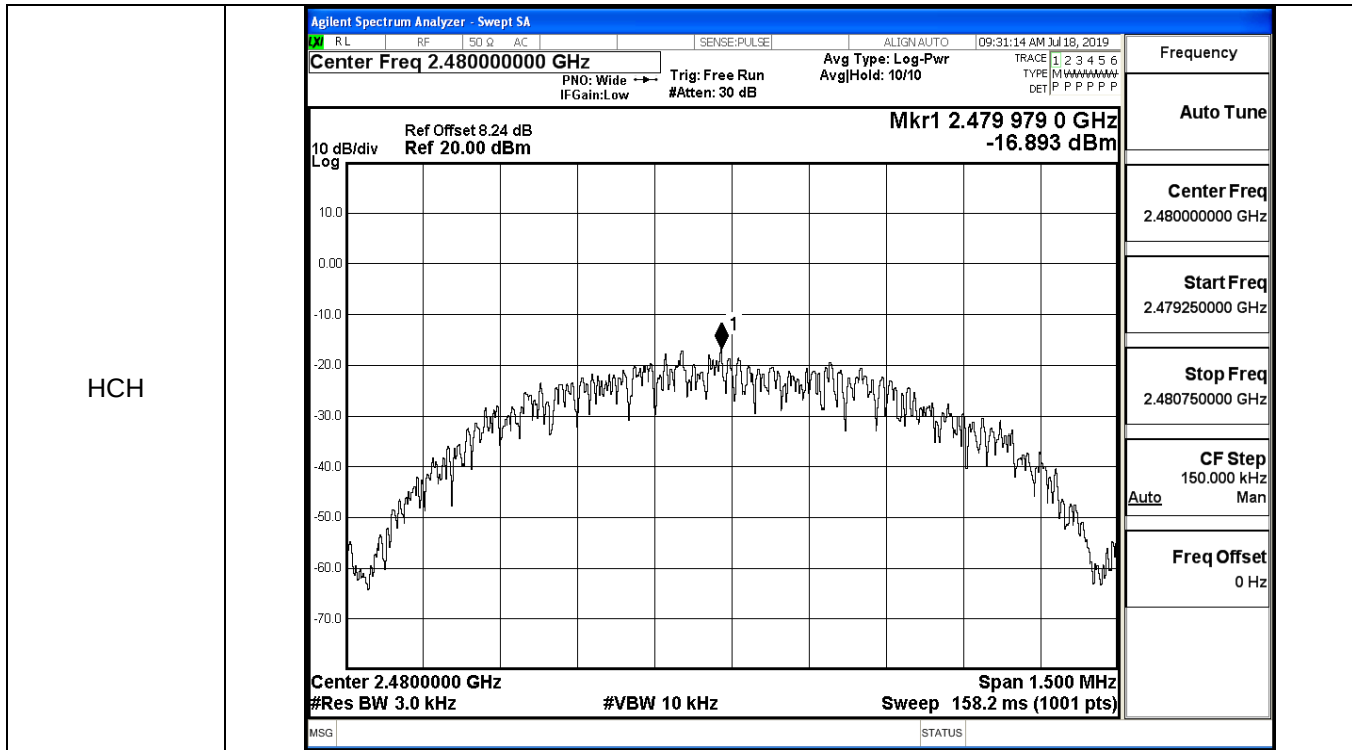
B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.557	30	PASS
BT LE	MCH	-0.787	30	PASS
BT LE	HCH	-1.851	30	PASS

B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-16.920	8	PASS
BT LE	MCH	-15.833	8	PASS
BT LE	HCH	-16.893	8	PASS



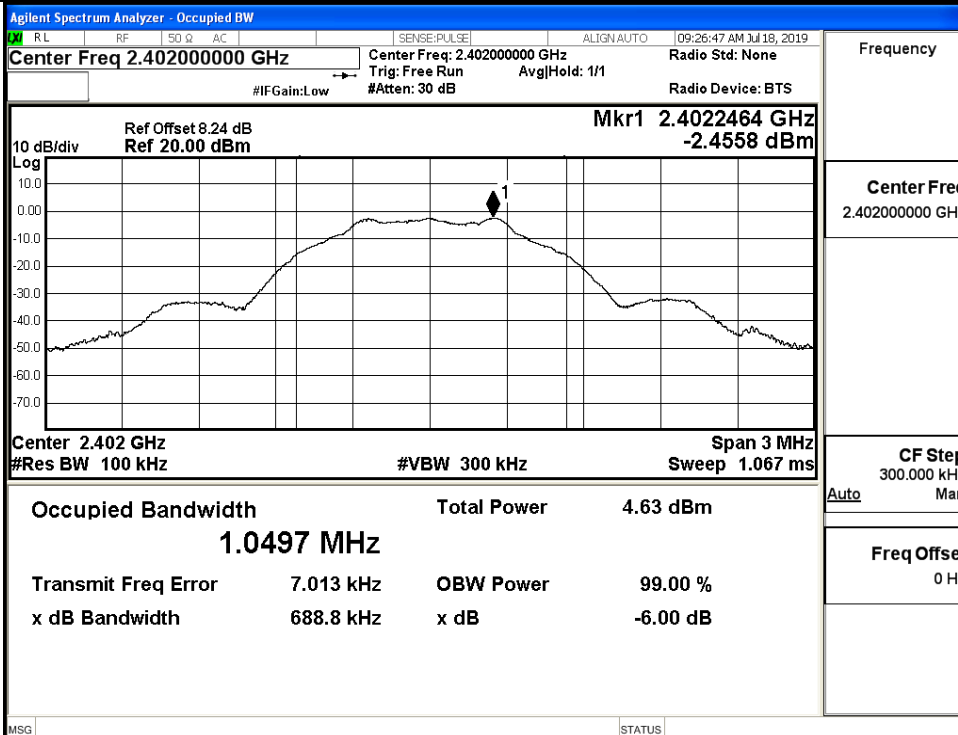


B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6888	≥ 0.5	PASS
BT LE	MCH	0.6813	≥ 0.5	PASS
BT LE	HCH	0.6890	≥ 0.5	PASS

Test Graphs

LCH



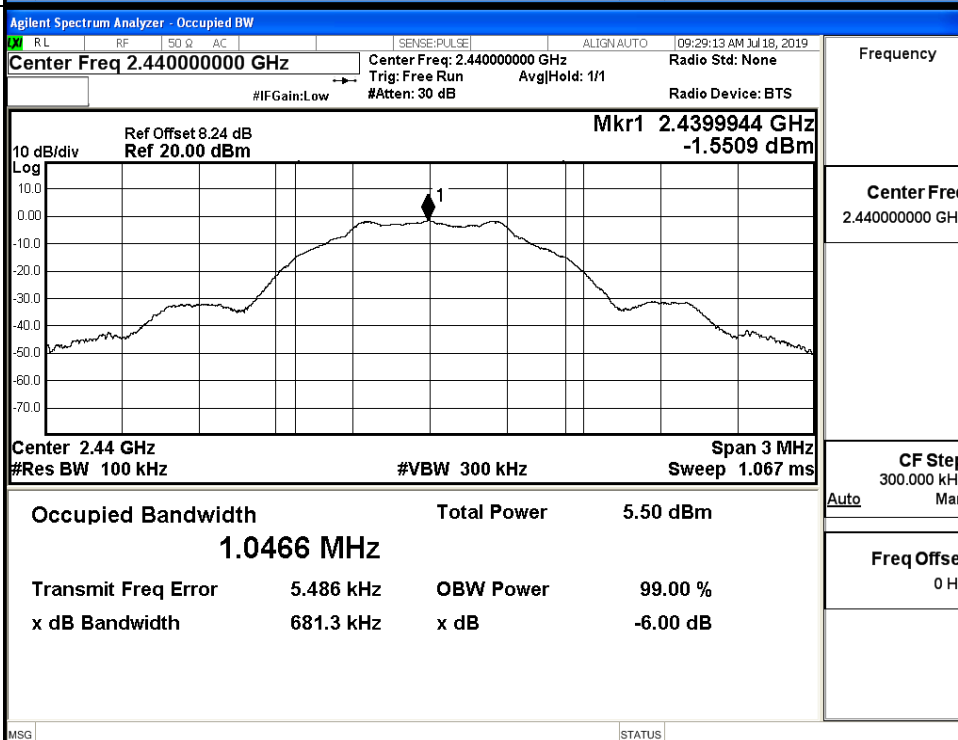
Frequency

Center Freq
2.402000000 GHz

CF Step
300.000 kHz
Auto Man

Freq Offset
0 Hz

MCH



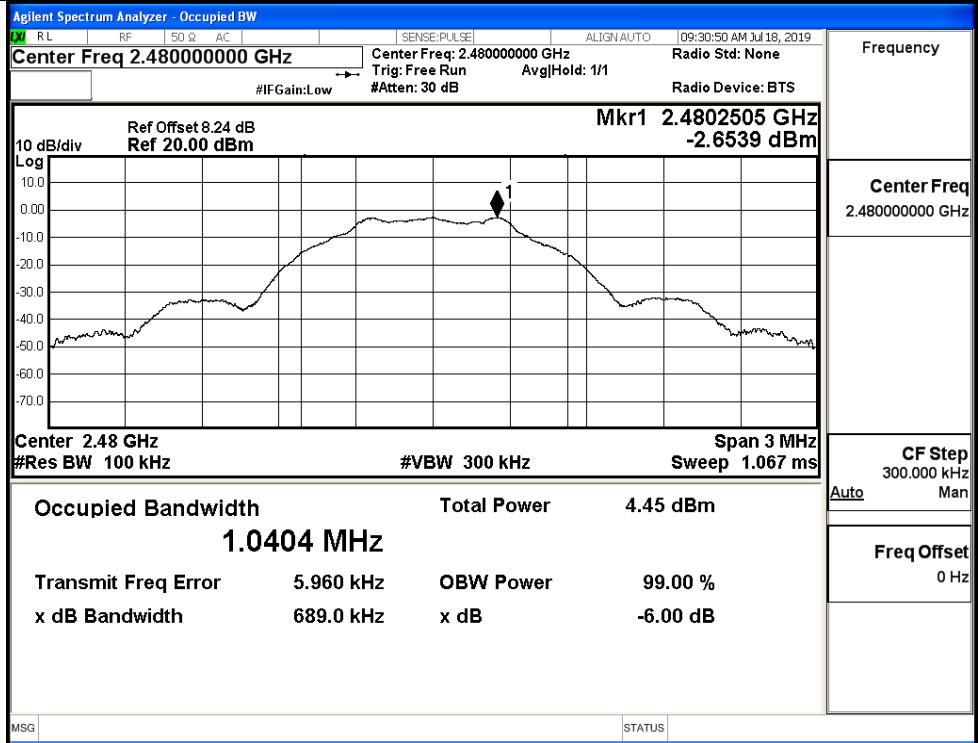
Frequency

Center Freq
2.440000000 GHz

CF Step
300.000 kHz
Auto Man

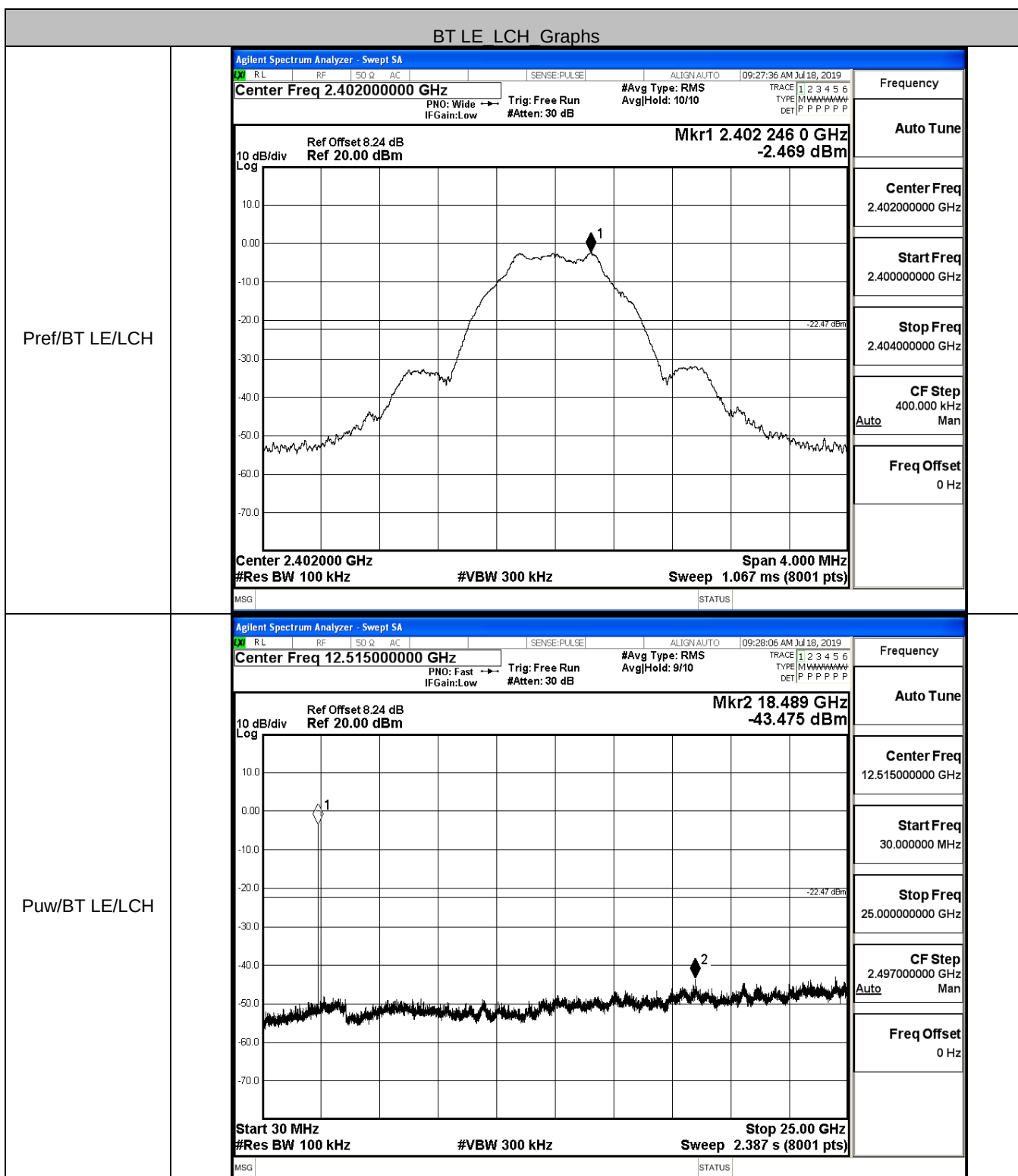
Freq Offset
0 Hz

HCH



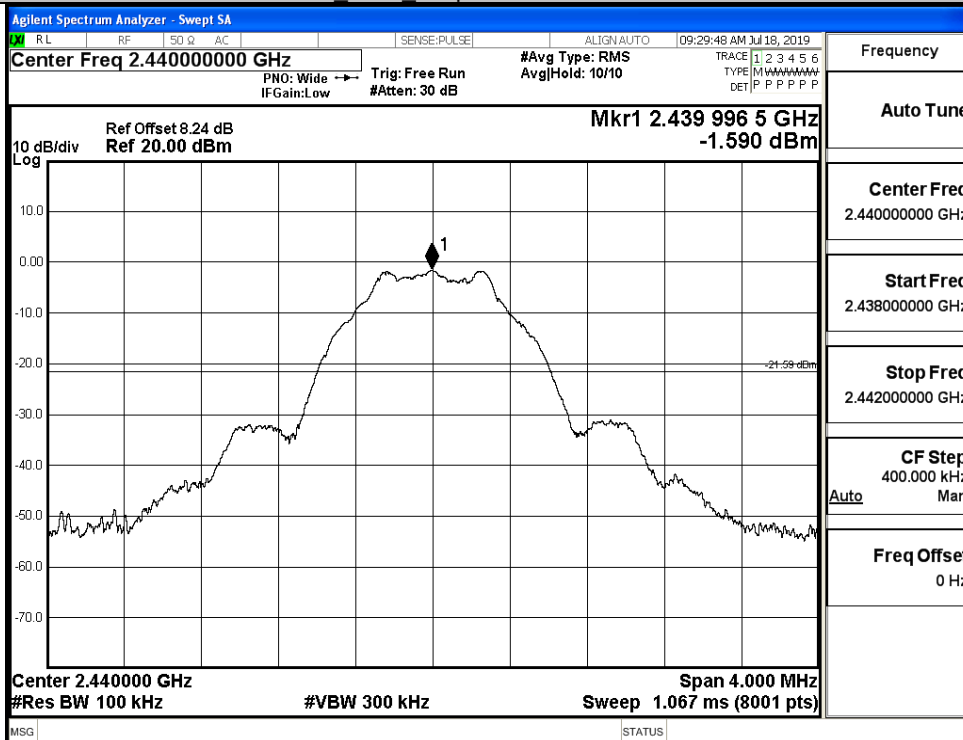
B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.469	-43.475	-22.469	PASS
BT LE	MCH	-1.59	-43.827	-21.590	PASS
BT LE	HCH	-2.555	-43.860	-22.555	PASS

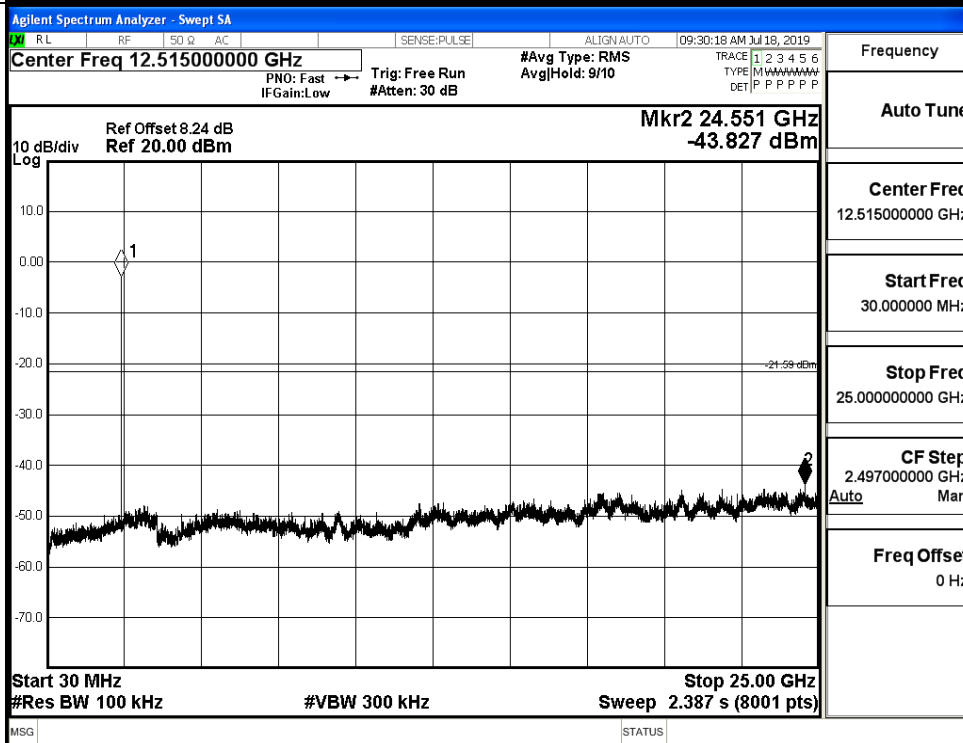


BT LE MCH Graphs

Pref/BT LE/MCH

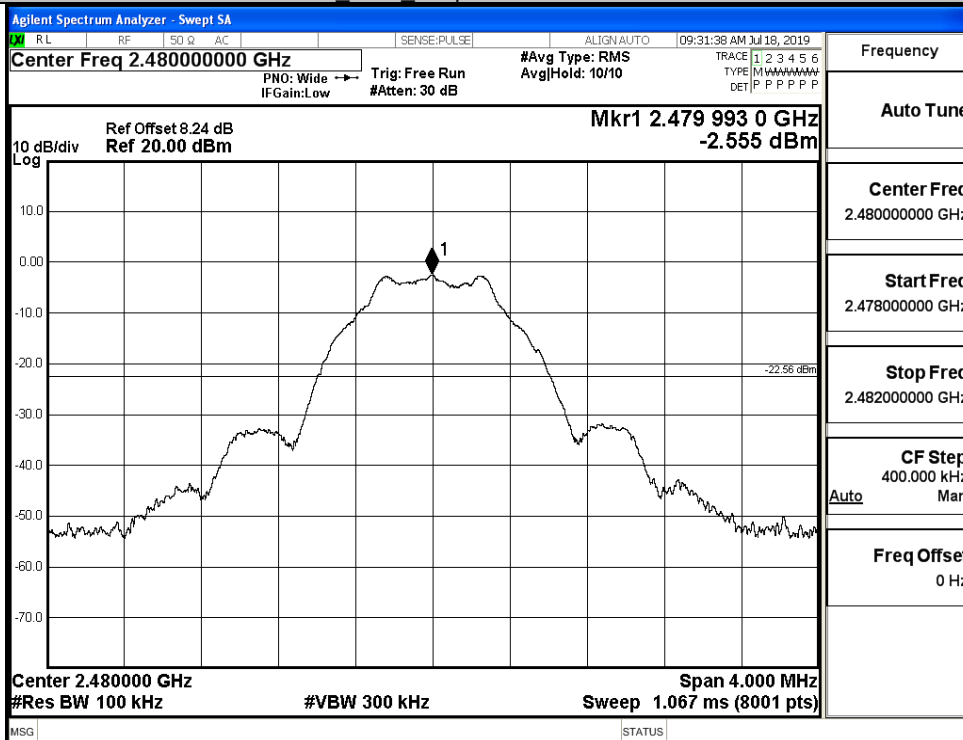


Puw/BT LE/MCH

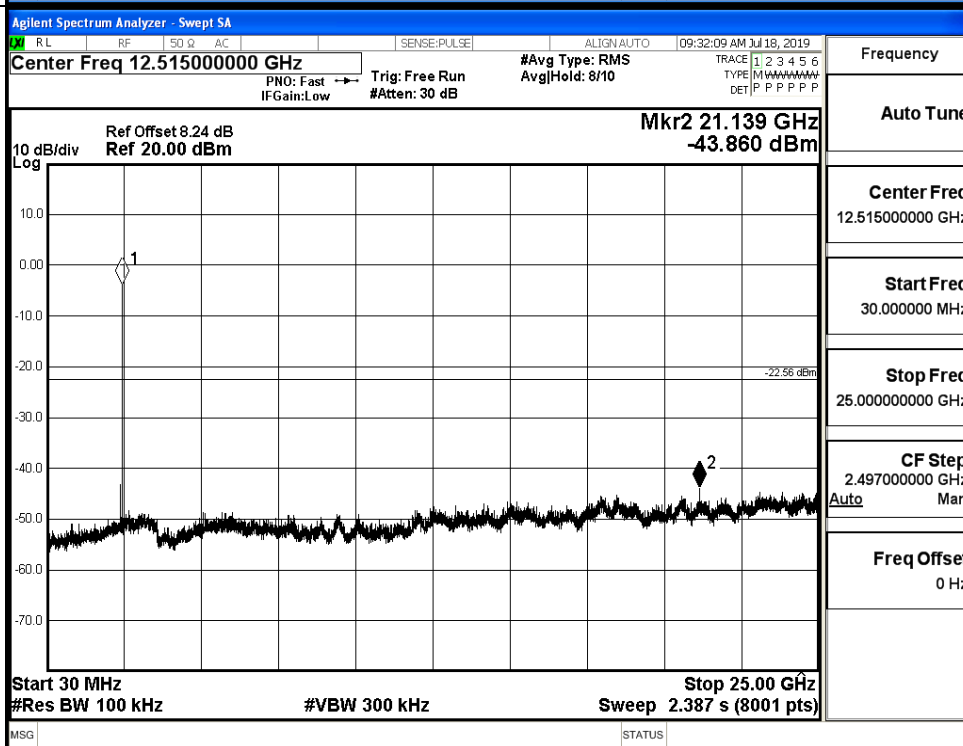


BT LE HCH Graphs

Pref/BT LE/HCH

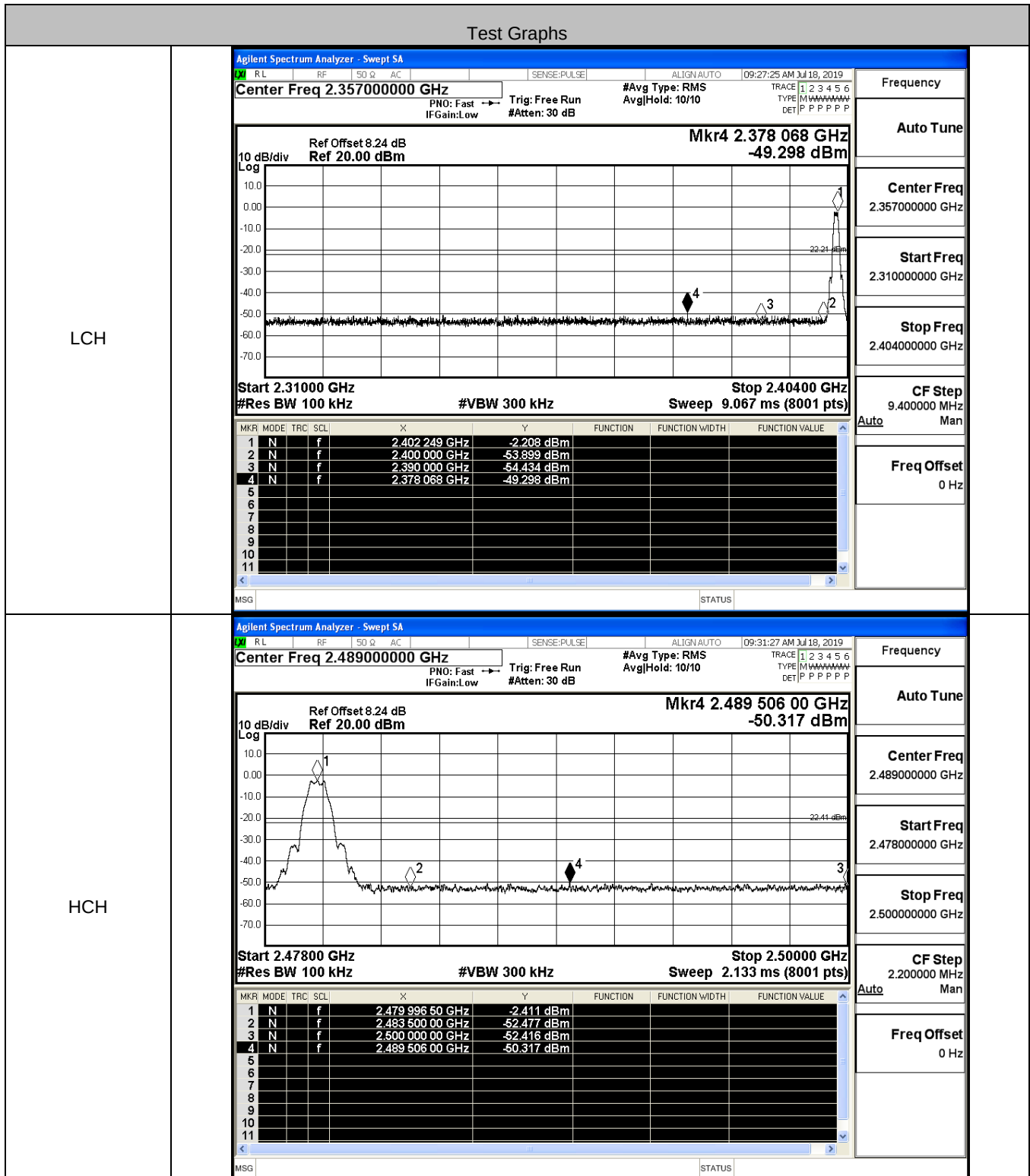


Puw/BT LE/HCH



B.6 Band-edge for RF Conducted Emissions

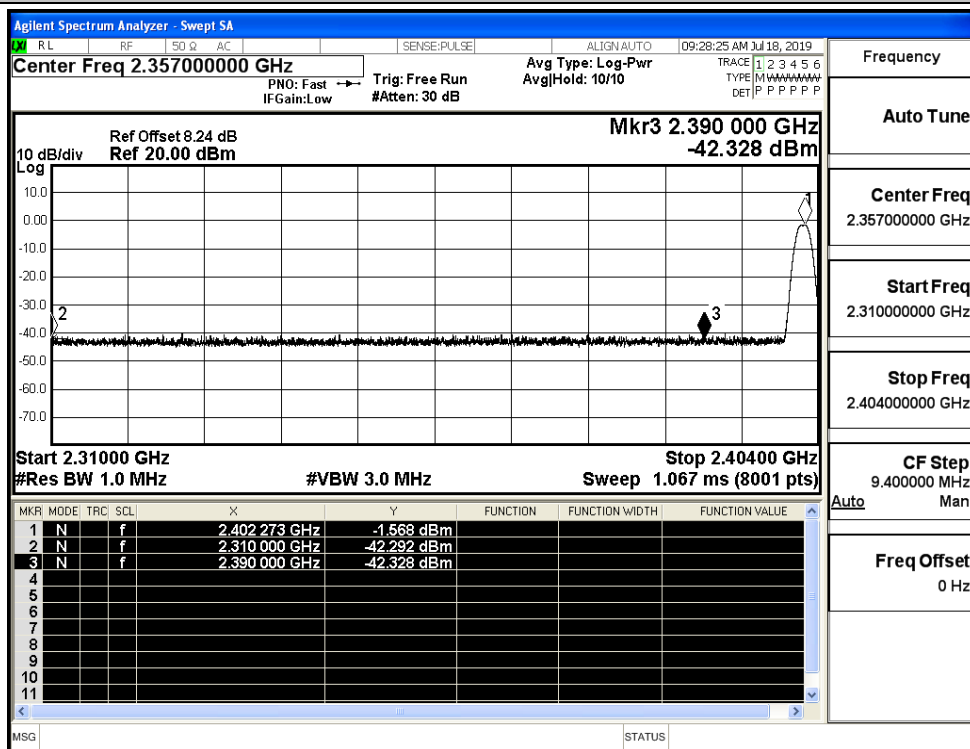
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.208	-49.298	-22.21	PASS
BT LE	HCH	-2.411	-50.317	-22.41	PASS



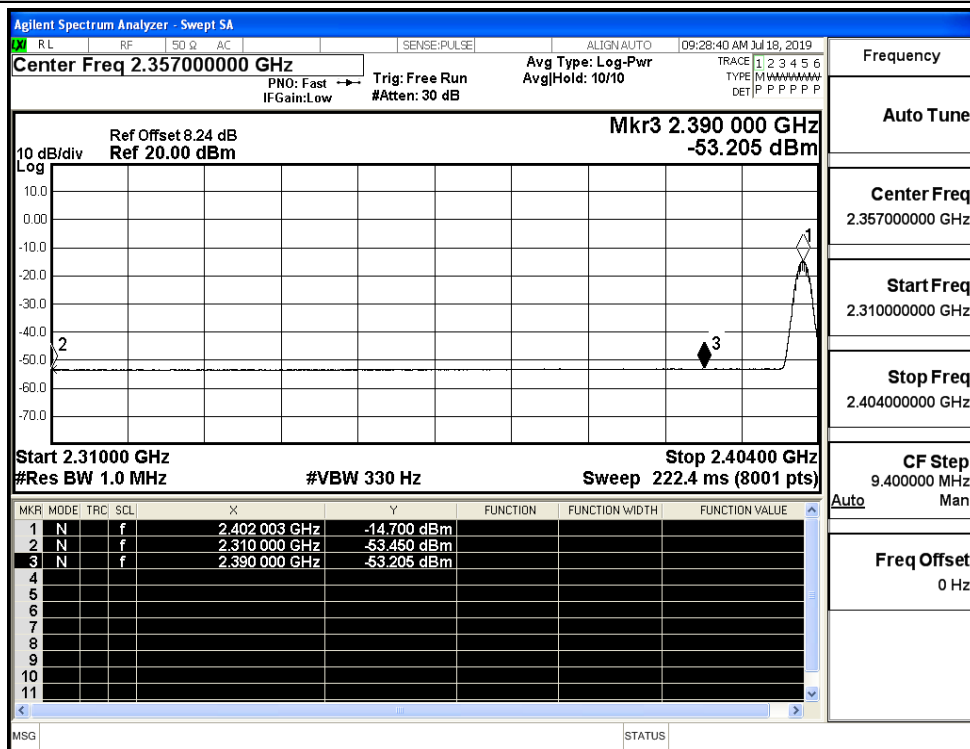
B.7 Restrict-band band-edge measurements

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	-42.29	2.0	0	52.97	PEAK	74	PASS
		Ant1	2310.0	-53.45	2.0	0	41.81	AV	54	PASS
		Ant1	2390.0	-42.33	2.0	0	52.93	PEAK	74	PASS
		Ant1	2390.0	-53.21	2.0	0	42.05	AV	54	PASS
	2480	Ant1	2483.5	-42.40	2.0	0	52.86	PEAK	74	PASS
		Ant1	2483.5	-52.97	2.0	0	42.29	AV	54	PASS
		Ant1	2500.0	-40.96	2.0	0	54.29	PEAK	74	PASS
		Ant1	2500.0	-52.84	2.0	0	42.42	AV	54	PASS

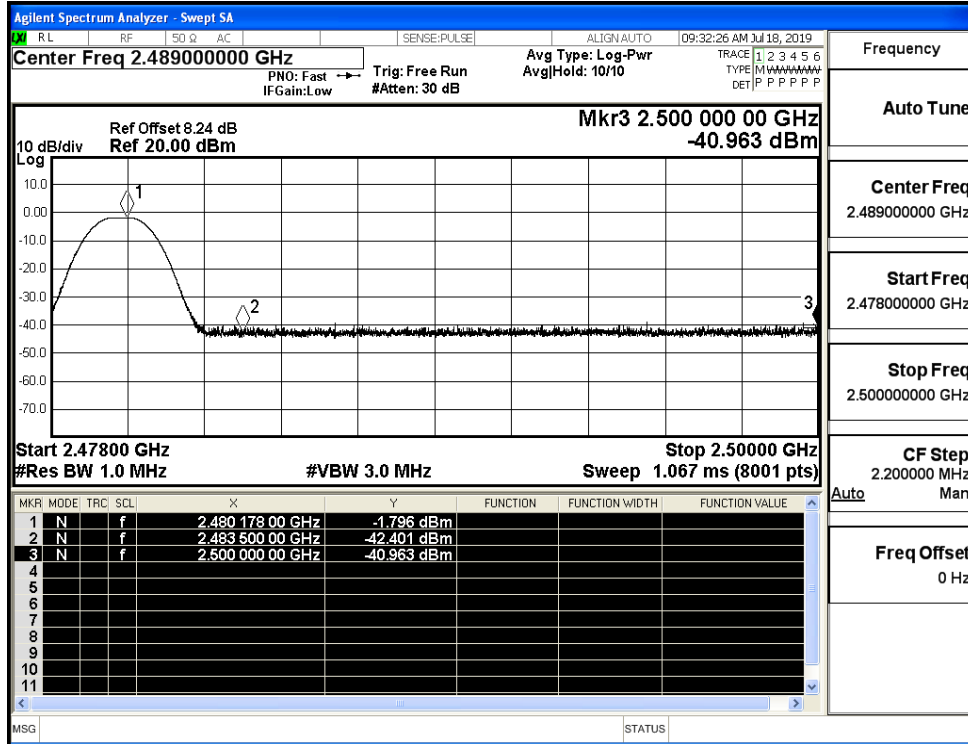
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

