

Appendix A

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

Product Name: SumUp Air Lite v2

Trade Mark: SumUp Air Lite v2

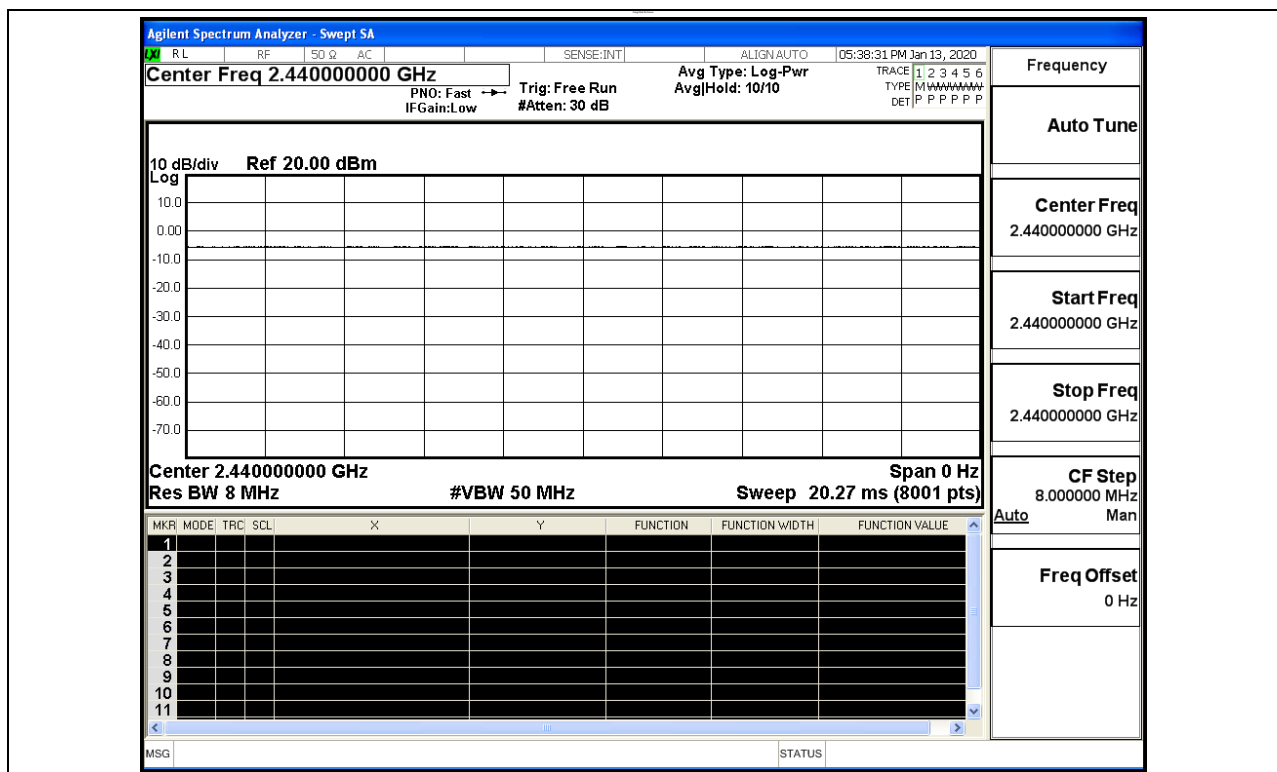
Test Model: SumUp Air Lite v2

Environmental Conditions

Temperature:	22.9 °C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	SCOUT WU
Supervised by:	Tom.Liu

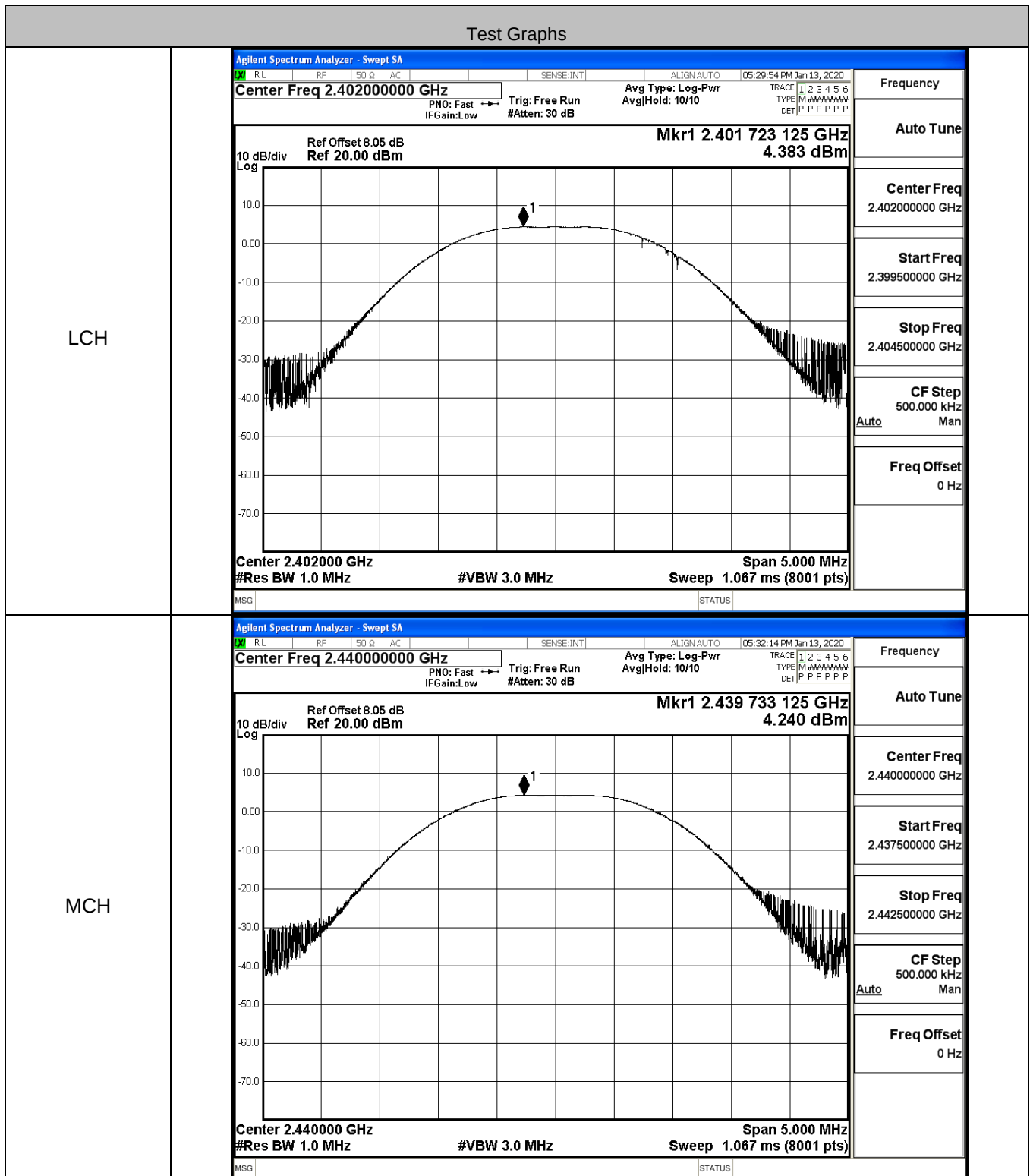
A.1 Duty Cycle

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

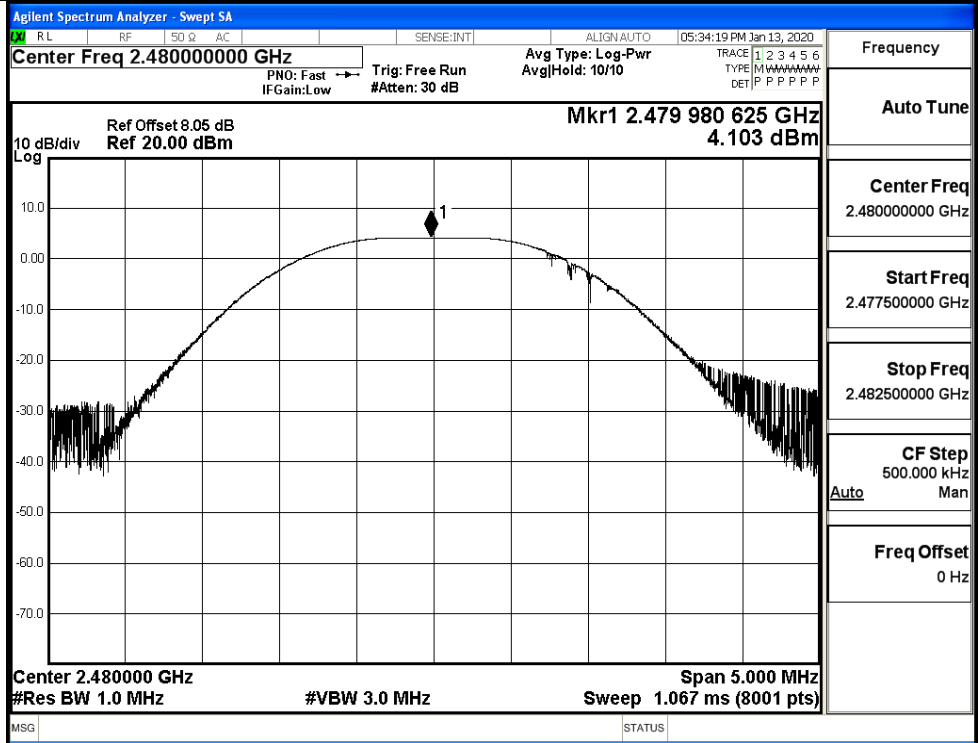


A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	4.383	30	PASS
BT LE	MCH	4.24	30	PASS
BT LE	HCH	4.103	30	PASS



HCH

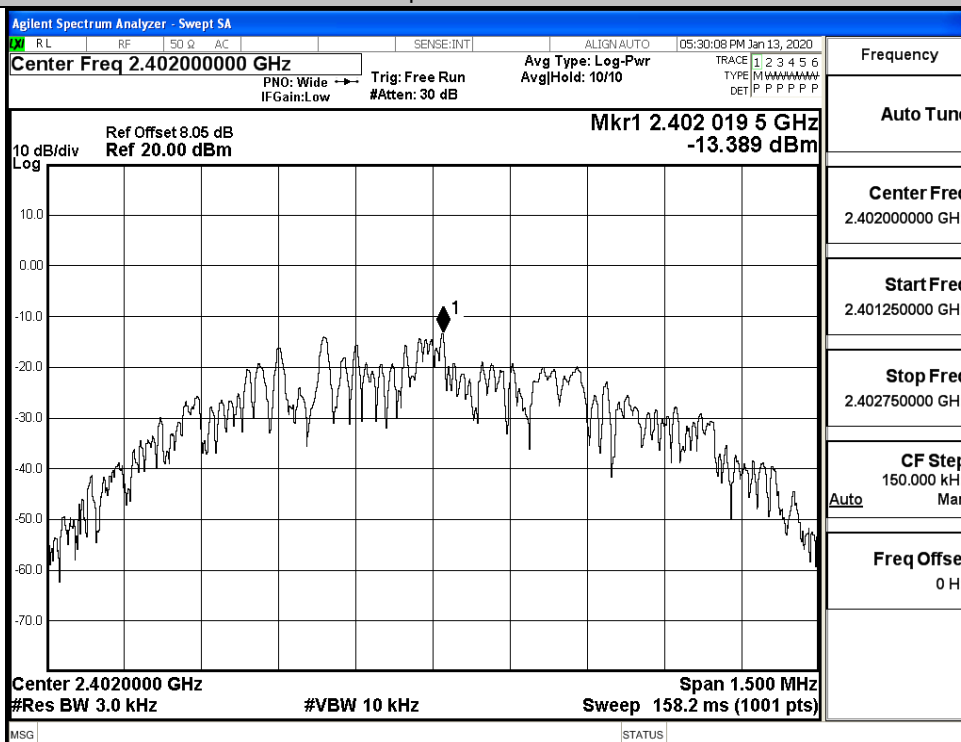


A.3 Maximum Power Spectral Density

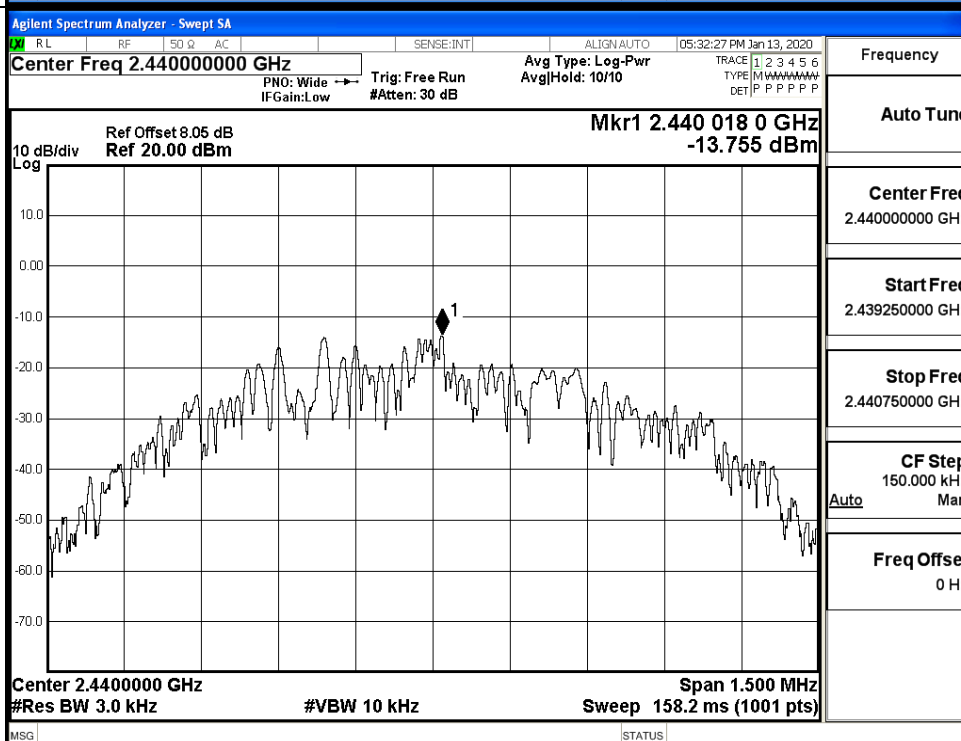
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-13.389	8	PASS
BT LE	MCH	-13.755	8	PASS
BT LE	HCH	-13.622	8	PASS

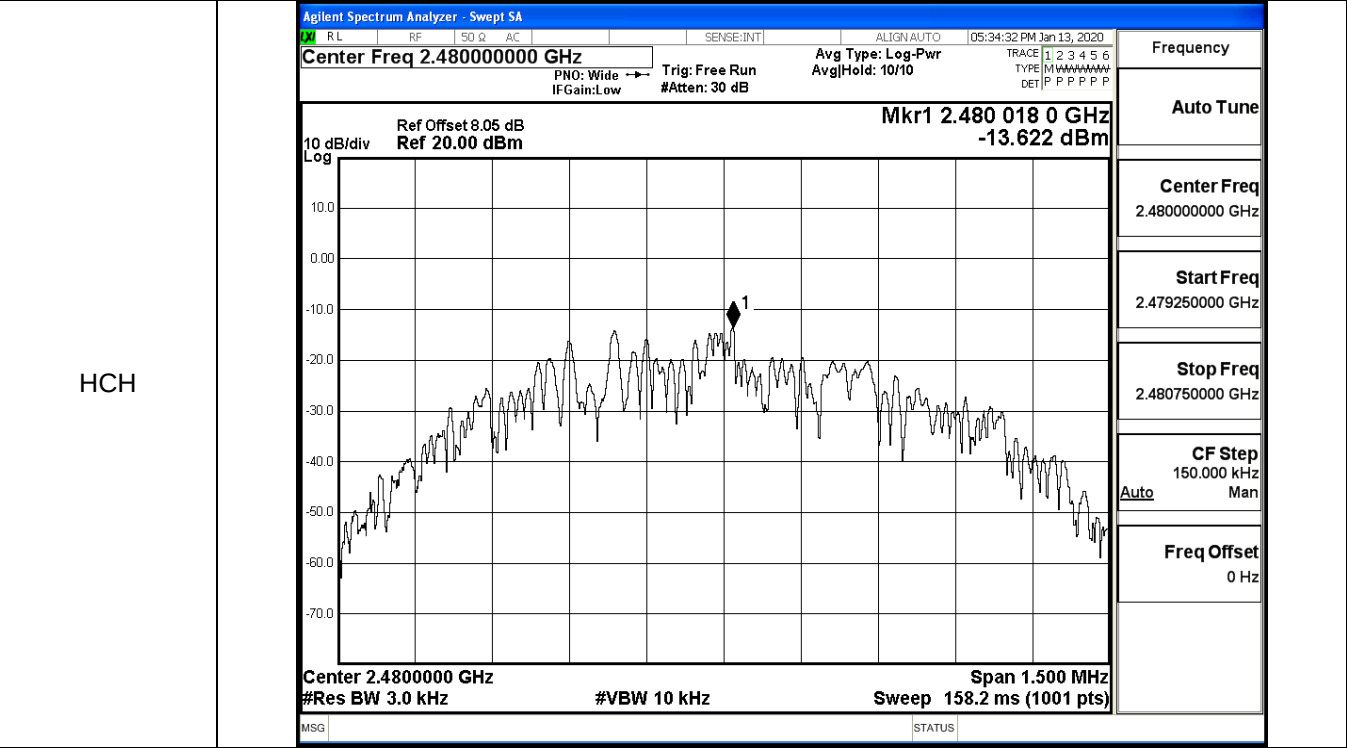
Test Graphs

LCH



MCH



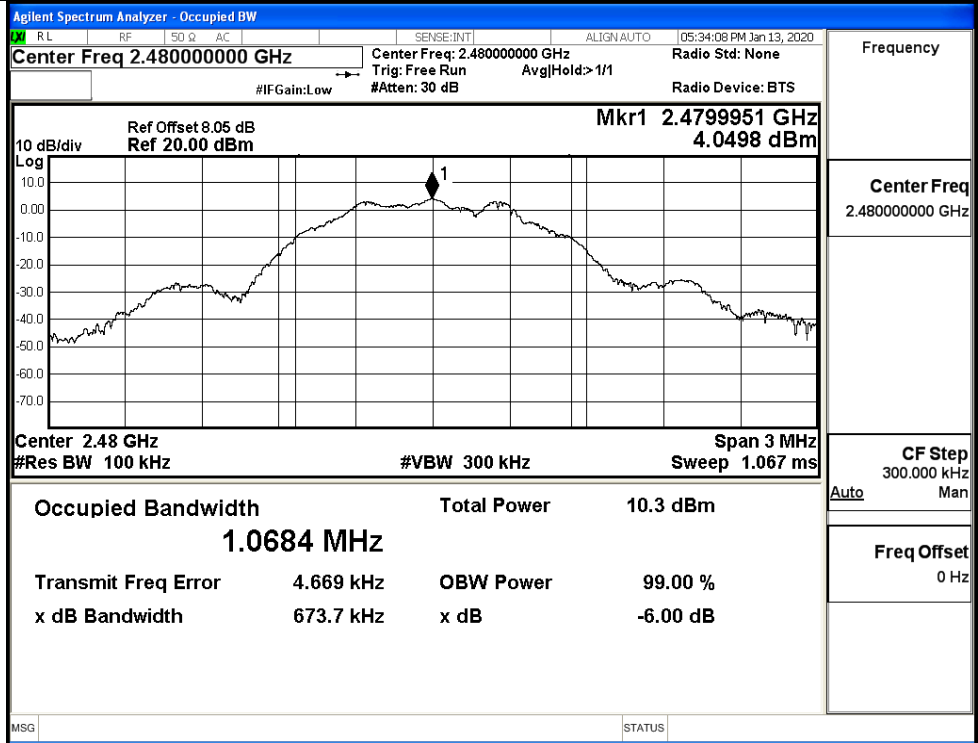


A.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6845	≥ 0.5	PASS
BT LE	MCH	0.6891	≥ 0.5	PASS
BT LE	HCH	0.6737	≥ 0.5	PASS

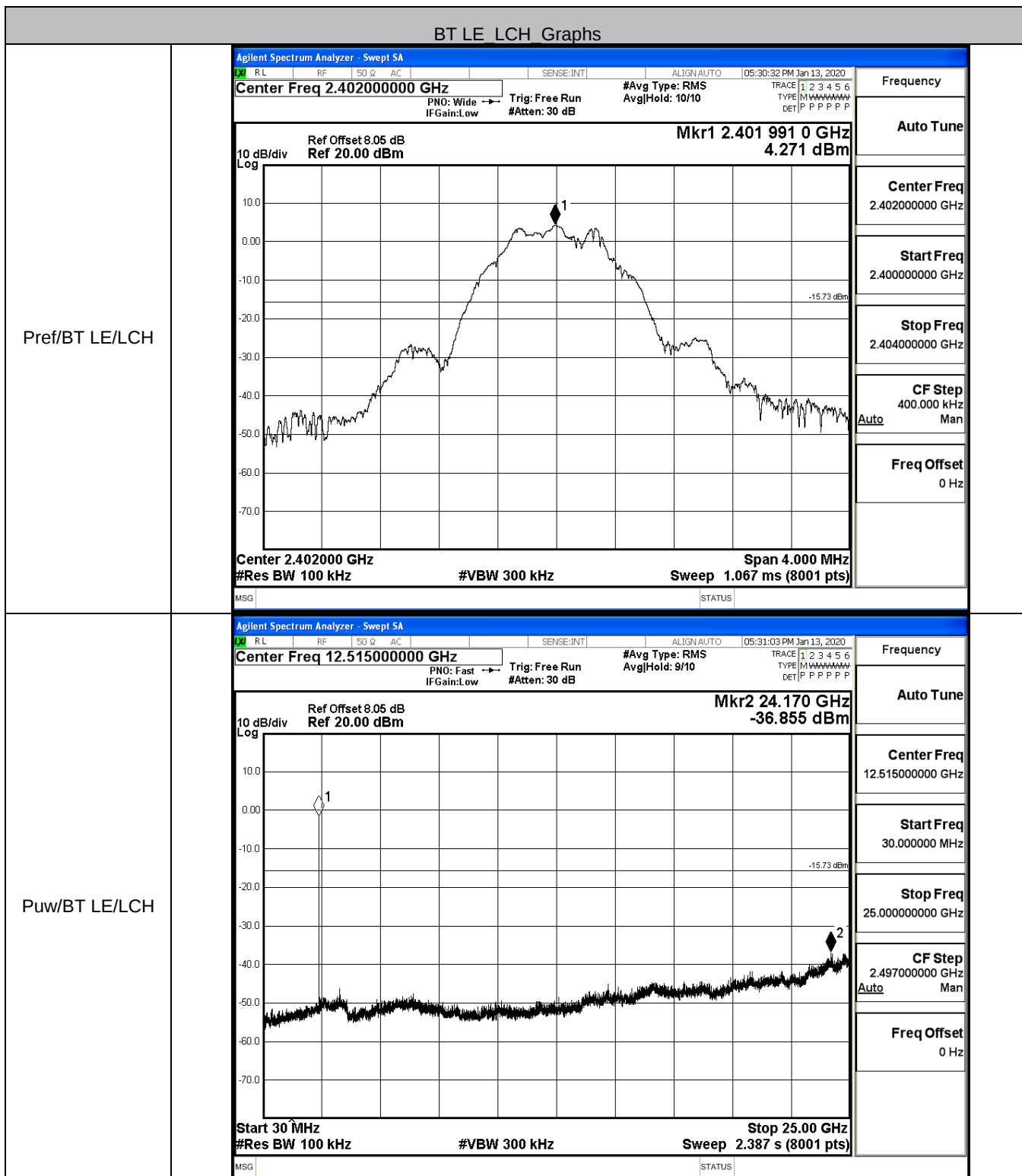
Test Graphs			
LCH		Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 05:29:43 PM Jan 13, 2020 Center Freq 2.402000000 GHz Center Freq: 2.402000000 GHz Radio Std: None Trig: Free Run Avg/Hold: 1/1 #IF Gain: Low #Atten: 30 dB Radio Device: BTS Ref Offset 8.05 dB Mkr1 2.4019929 GHz Ref 20.00 dBm 4.3273 dBm Center 2.402 GHz Span 3 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 1.067 ms Occupied Bandwidth Total Power 10.6 dBm 1.0659 MHz Transmit Freq Error 4.927 kHz OBW Power 99.00 % x dB Bandwidth 684.5 kHz x dB -6.00 dB MSG STATUS	Frequency Center Freq 2.402000000 GHz CF Step 300.000 kHz Auto Man Freq Offset 0 Hz
		Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 05:32:03 PM Jan 13, 2020 Center Freq 2.440000000 GHz Center Freq: 2.440000000 GHz Radio Std: None Trig: Free Run Avg/Hold: 1/1 #IF Gain: Low #Atten: 30 dB Radio Device: BTS Ref Offset 8.05 dB Mkr1 2.439988 GHz Ref 20.00 dBm 4.0914 dBm Center 2.44 GHz Span 3 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 1.067 ms Occupied Bandwidth Total Power 10.3 dBm 1.0673 MHz Transmit Freq Error 4.916 kHz OBW Power 99.00 % x dB Bandwidth 689.1 kHz x dB -6.00 dB MSG STATUS	Frequency Center Freq 2.440000000 GHz CF Step 300.000 kHz Auto Man Freq Offset 0 Hz
MCH			

HCH



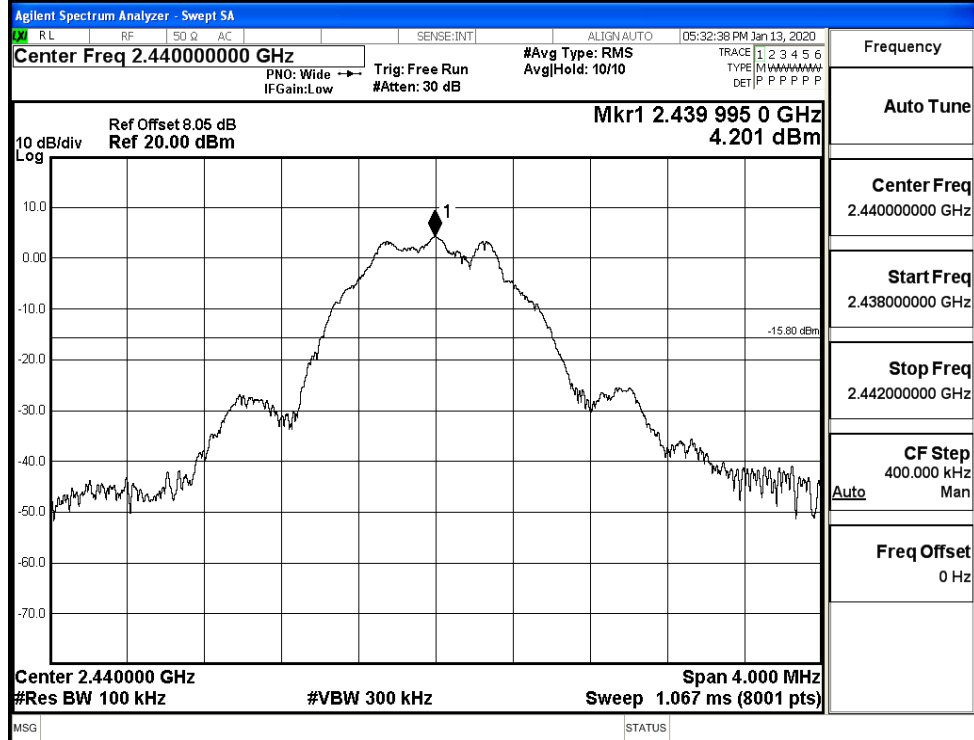
A.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	4.271	-36.855	-15.729	PASS
BT LE	MCH	4.201	-35.924	-15.799	PASS
BT LE	HCH	4.078	-35.870	-15.922	PASS

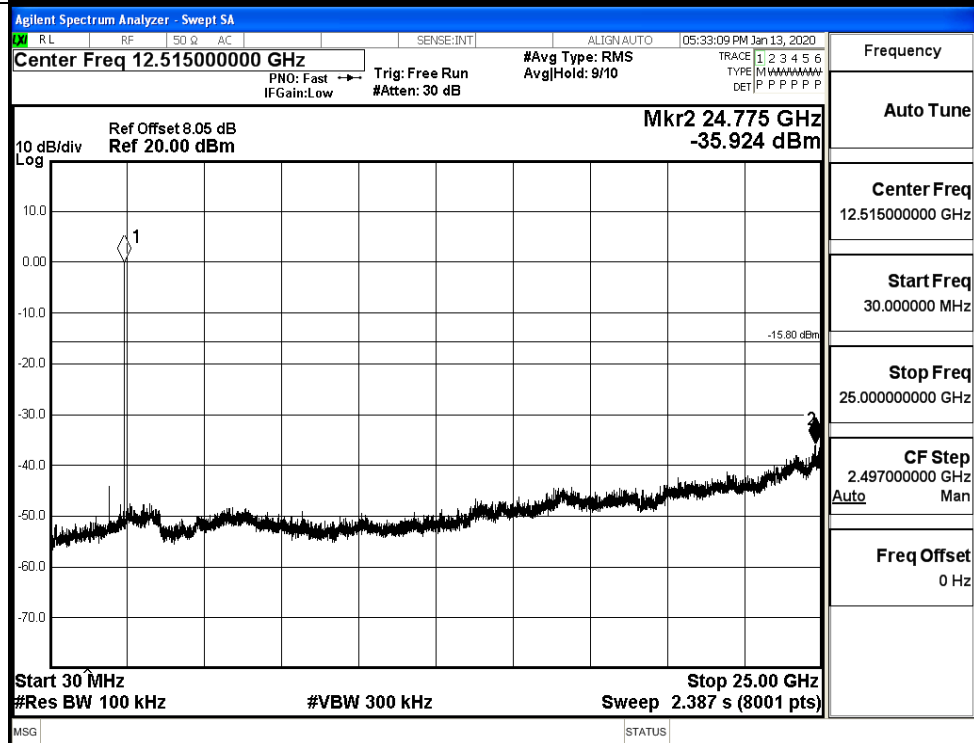


BT LE MCH Graphs

Pref/BT LE/MCH

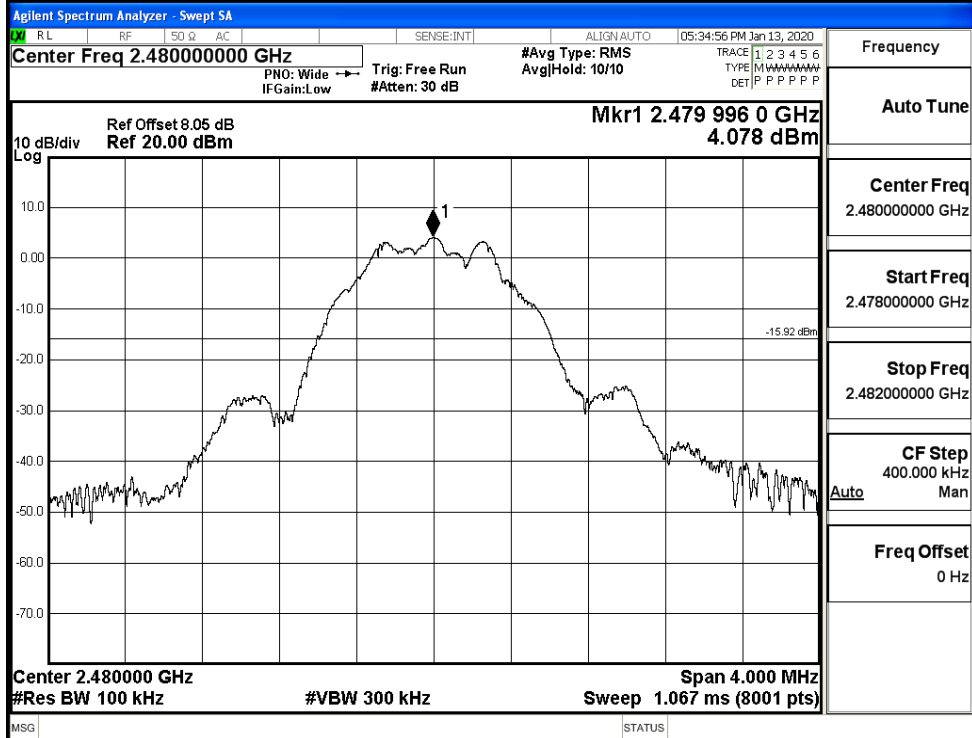


Puw/BT LE/MCH

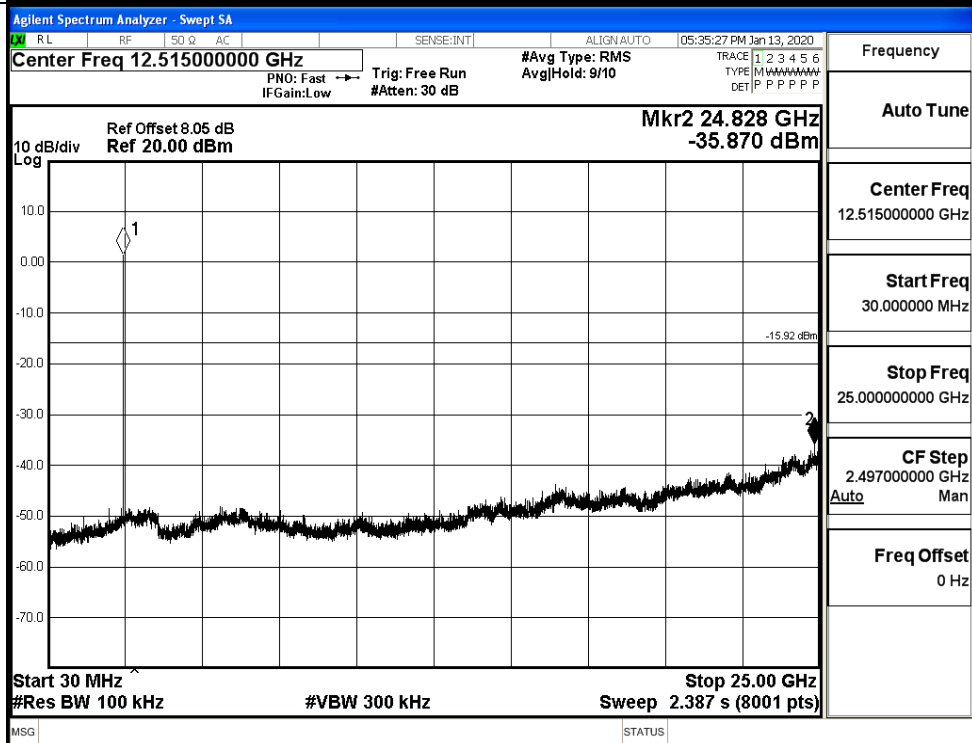


BT LE HCH Graphs

Pref/BT LE/HCH

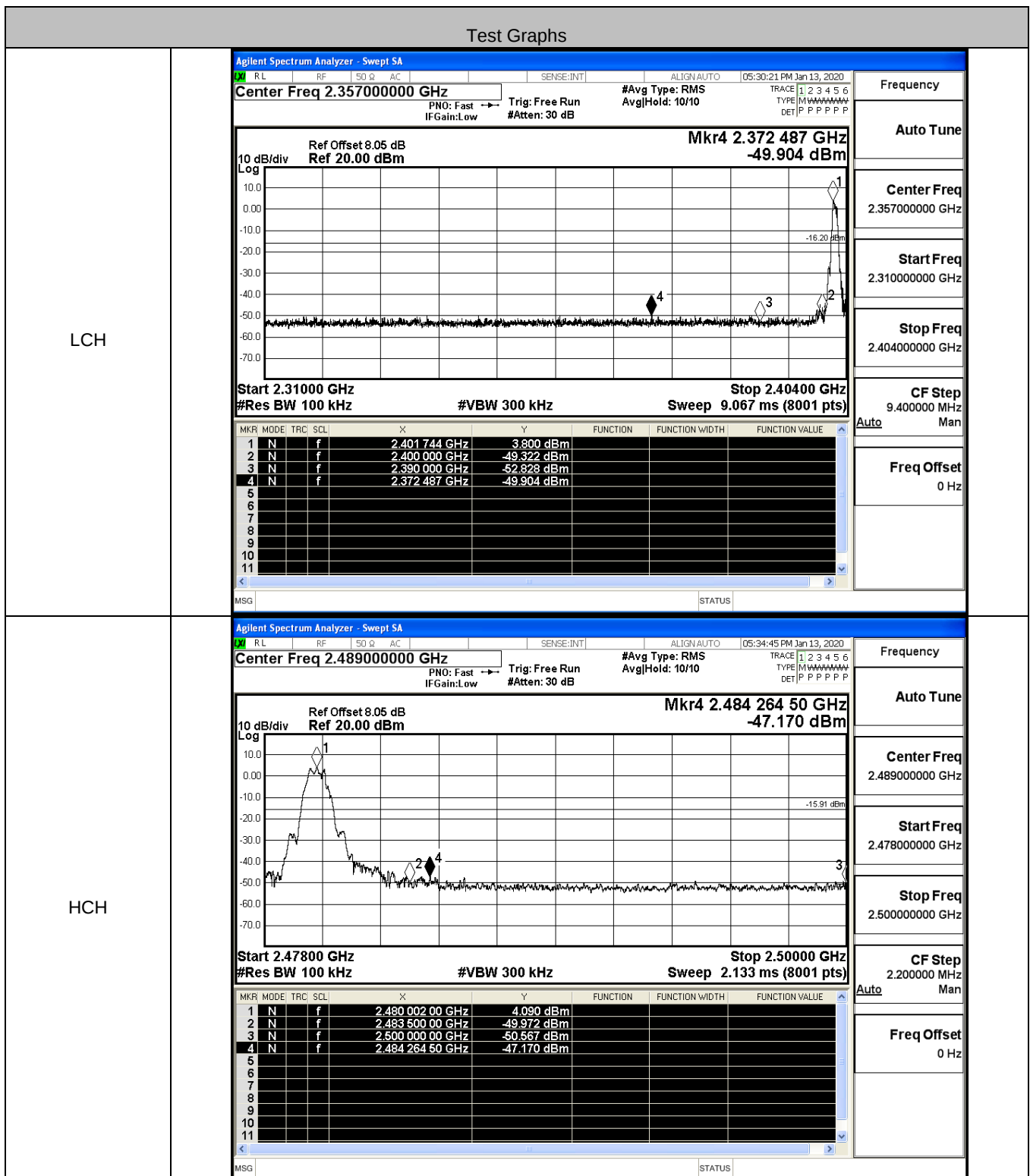


Puw/BT LE/HCH



A.6 Band-edge for RF Conducted Emissions

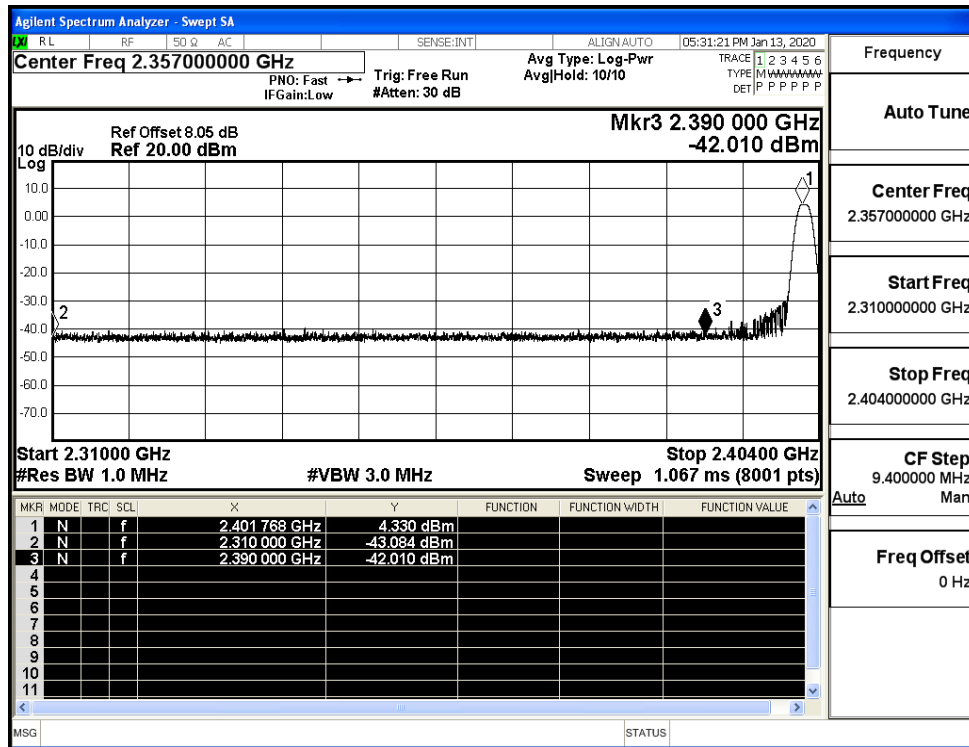
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	3.800	-49.904	-16.2	PASS
BT LE	HCH	4.090	-47.170	-15.91	PASS



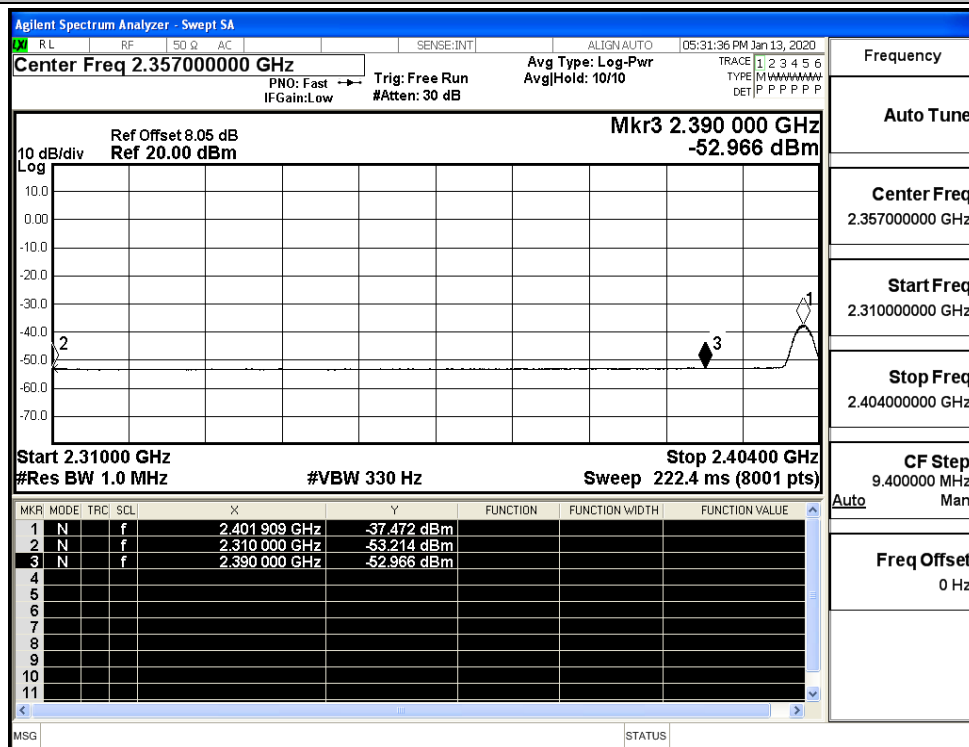
A.7 Restrict-band band-edge measurements

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	-43.08	2.0	0	54.15	PEAK	74	PASS
		Ant1	2310.0	-53.21	2.0	0	44.02	AV	54	PASS
		Ant1	2390.0	-42.01	2.0	0	55.22	PEAK	74	PASS
		Ant1	2390.0	-52.97	2.0	0	44.26	AV	54	PASS
	2480	Ant1	2483.5	-32.44	2.0	0	64.79	PEAK	74	PASS
		Ant1	2483.5	-52.52	2.0	0	44.71	AV	54	PASS
		Ant1	2500.0	-42.75	2.0	0	54.48	PEAK	74	PASS
		Ant1	2500.0	-52.35	2.0	0	44.88	AV	54	PASS

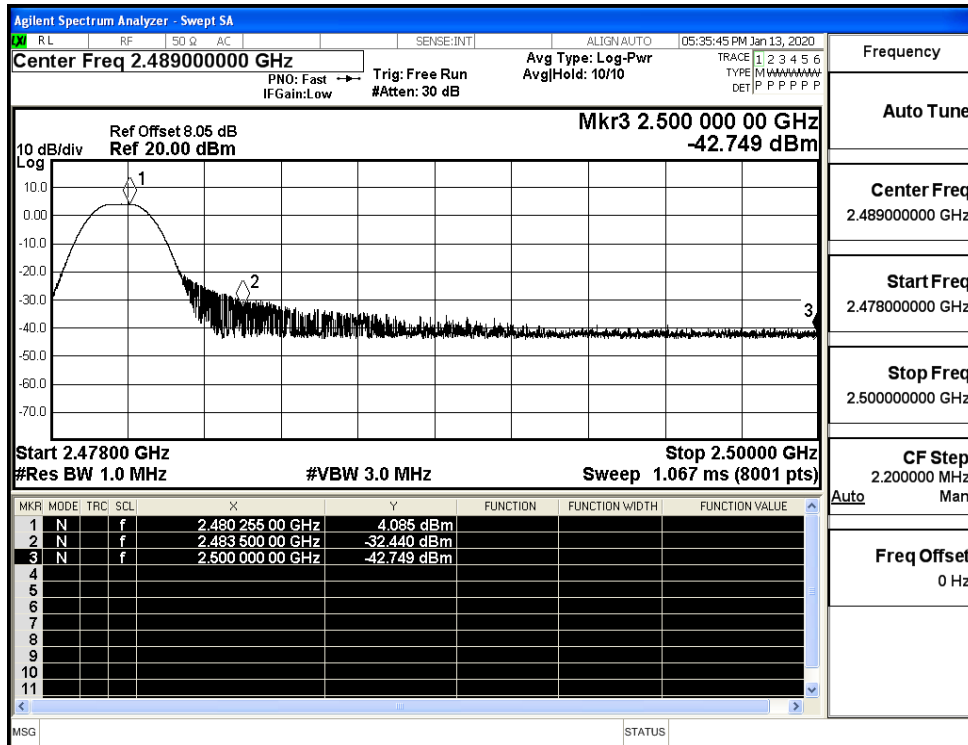
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

