

Appendix A

RF Test Data (Conducted Measurement)

Product Name: LiquidAider

Trade Mark: LiquidAider

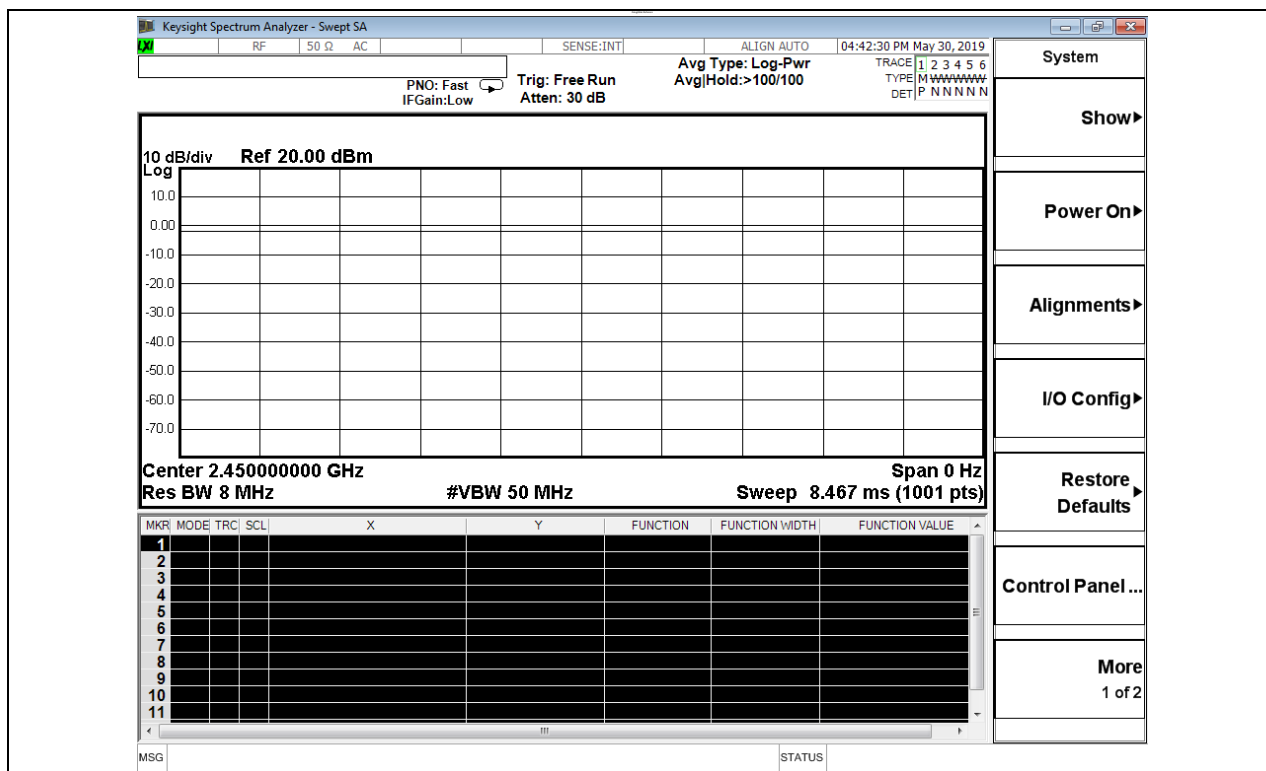
Test Model: LAP-001

Environmental Conditions

Temperature:	24.3 °C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	David Luo
Supervised by:	Tom.Liu

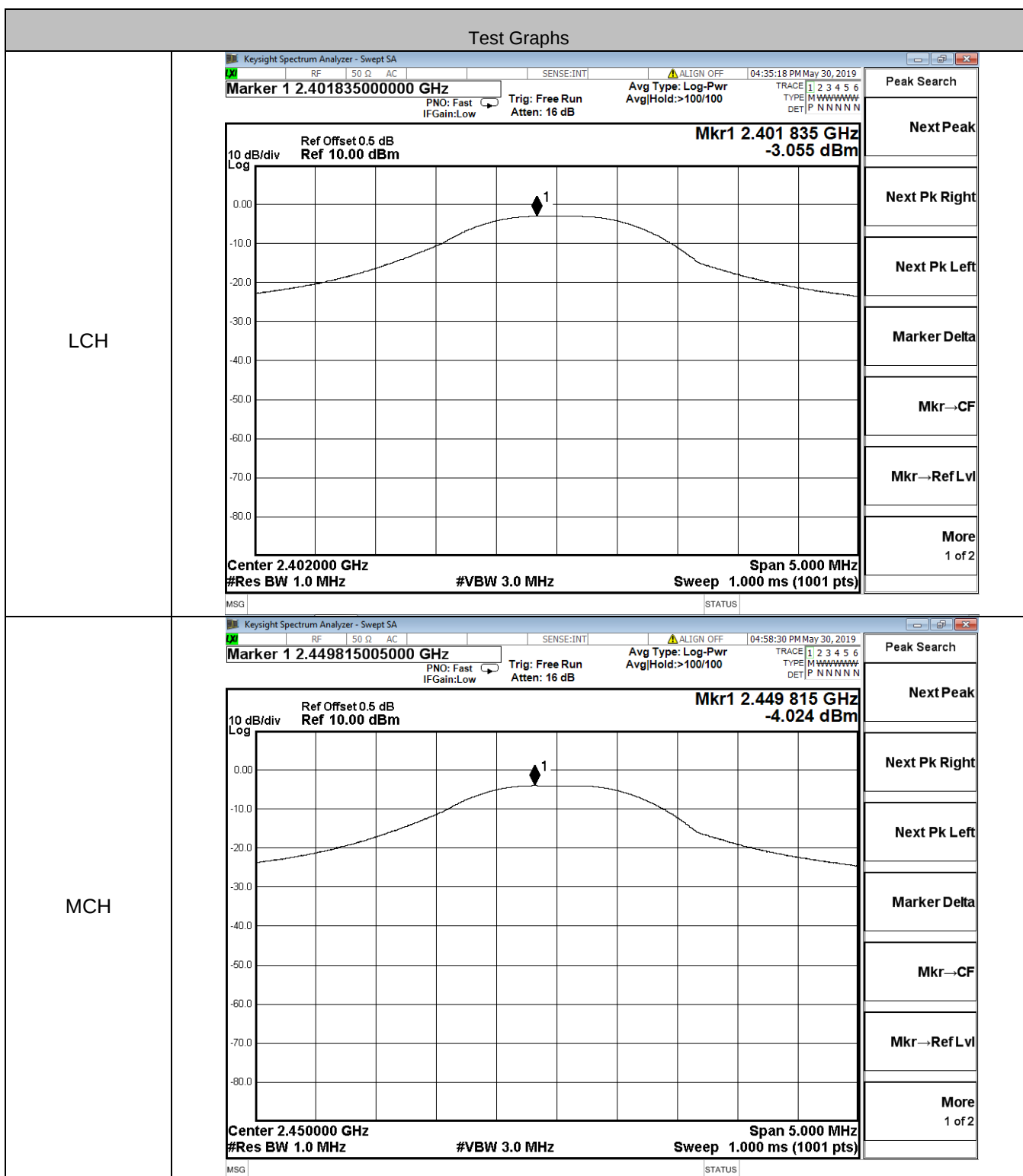
A.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
TX Mode	2450	Ant1	100	PASS

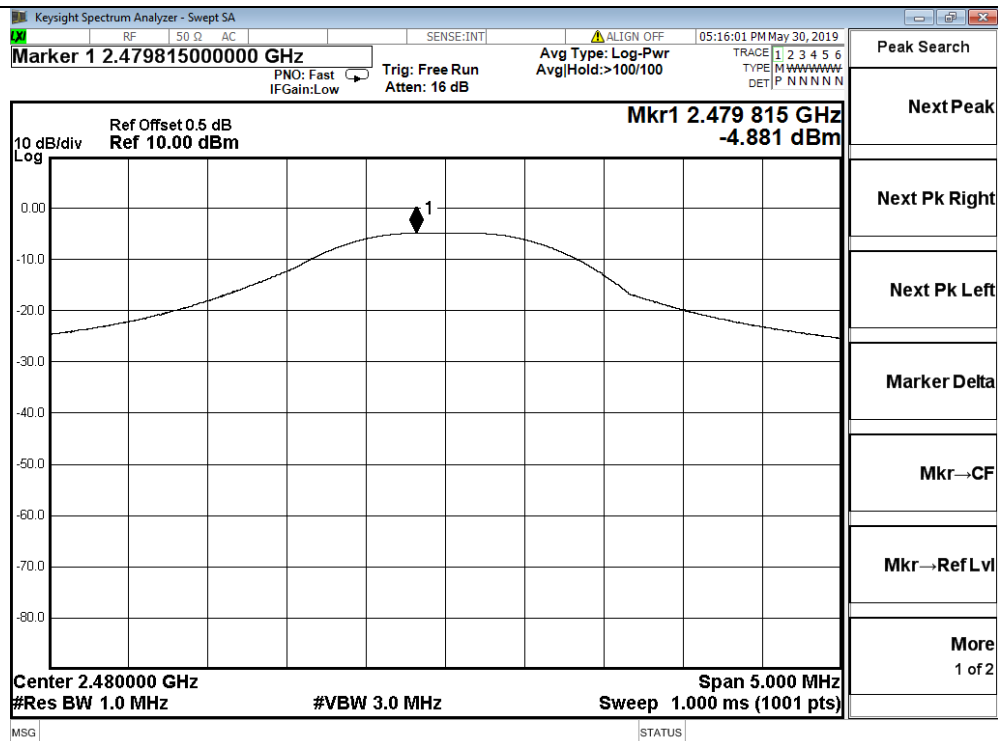


A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
TX Mode	LCH	-3.055	30	PASS
TX Mode	MCH	-4.024	30	PASS
TX Mode	HCH	-4.881	30	PASS

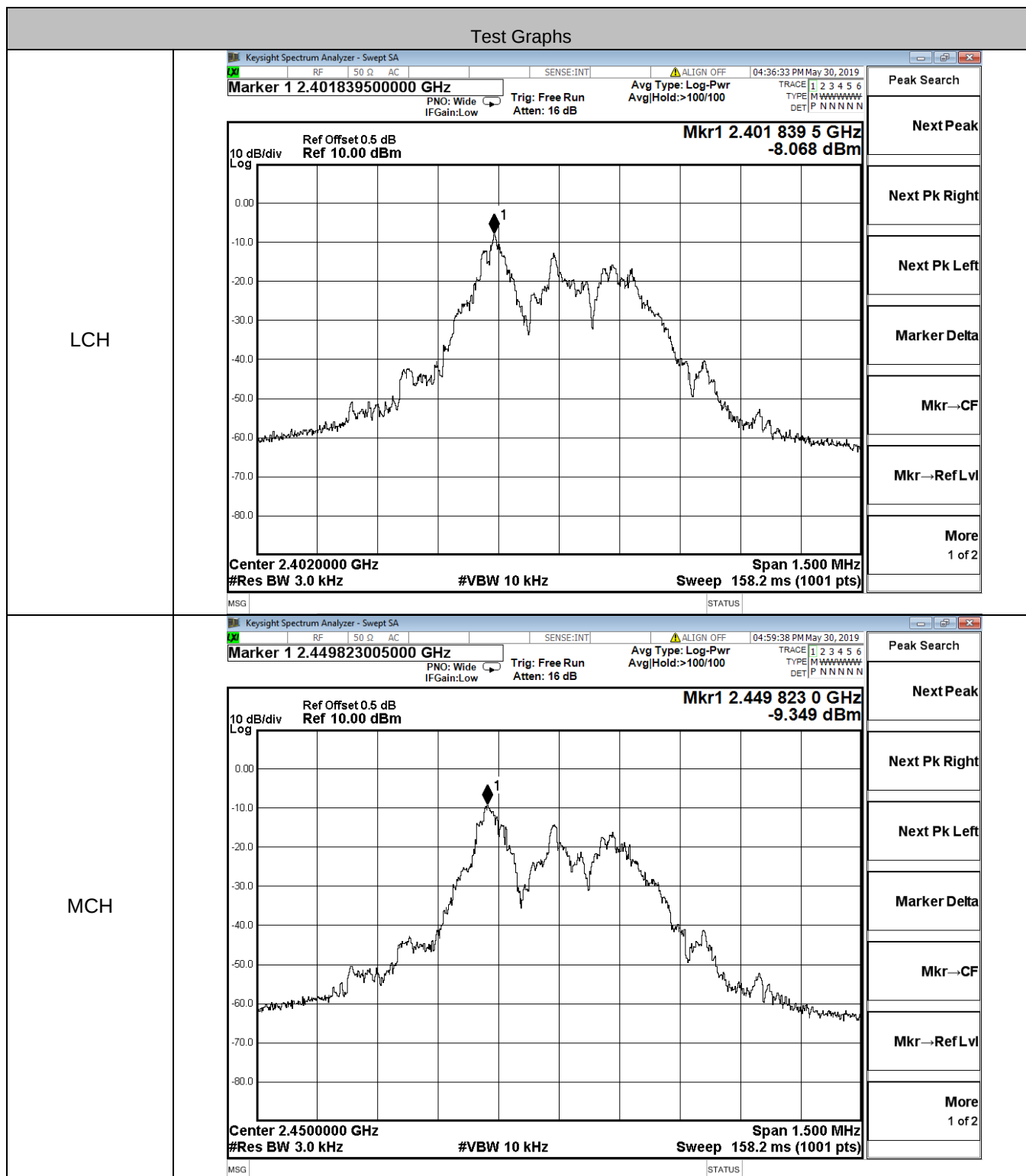


HCH

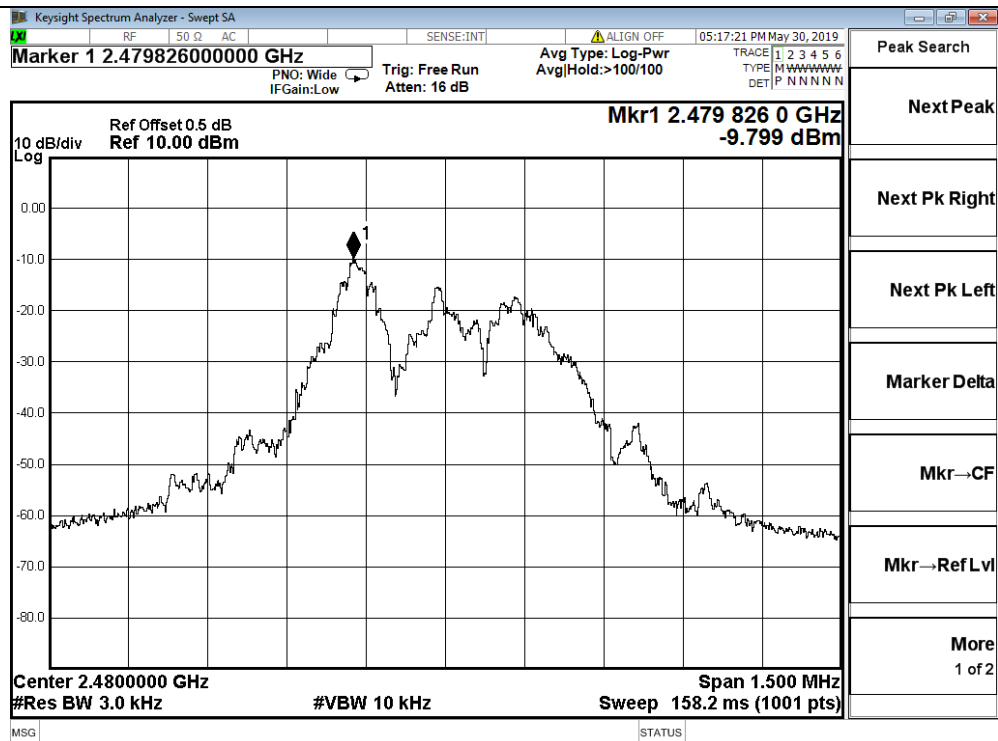


A.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
TX Mode	LCH	-8.068	8	PASS
TX Mode	MCH	-9.349	8	PASS
TX Mode	HCH	-9.799	8	PASS



HCH

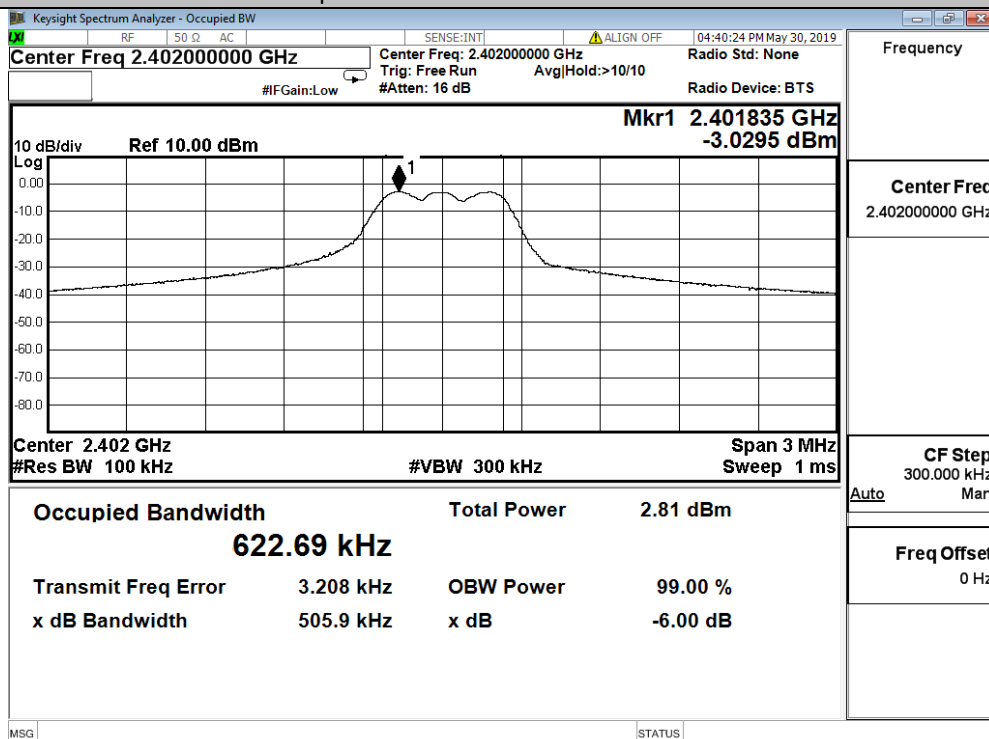


A.4 Bandwidth

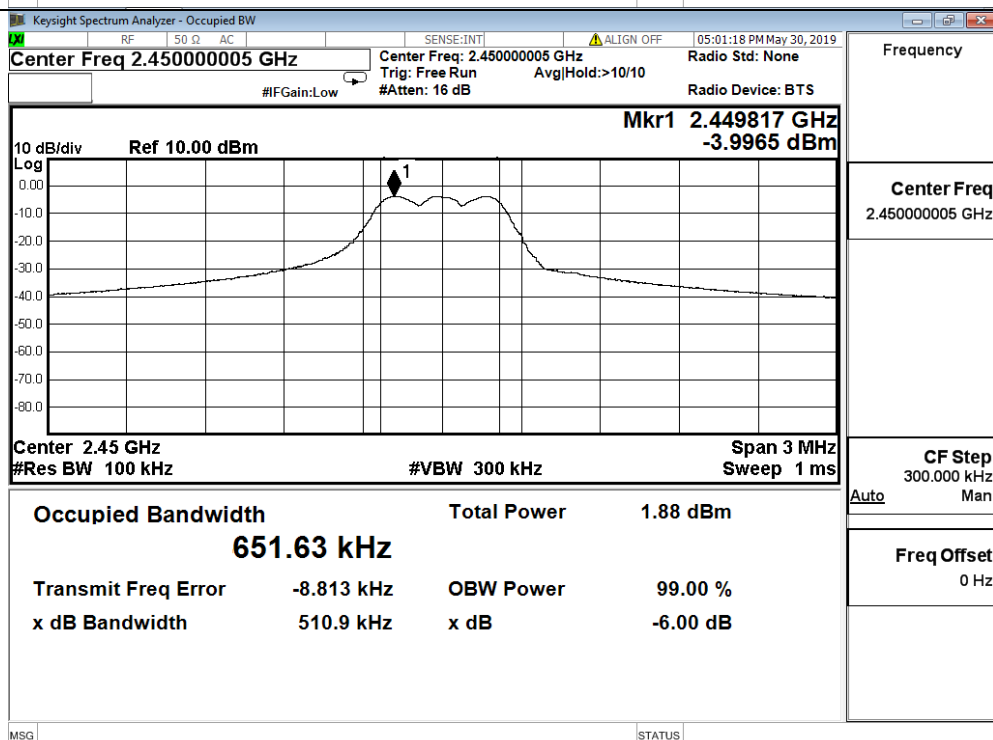
Mode	Channel	6dB Bandwidth [KHz]	99% Bandwidth [KHz]	Limit [MHz]	Verdict
TX Mode	LCH	505.9	641.76	≥ 0.5	PASS
TX Mode	MCH	510.9	648.49	≥ 0.5	PASS
TX Mode	HCH	505.1	648.09	≥ 0.5	PASS

Test Graphs for 6dB Bandwidth

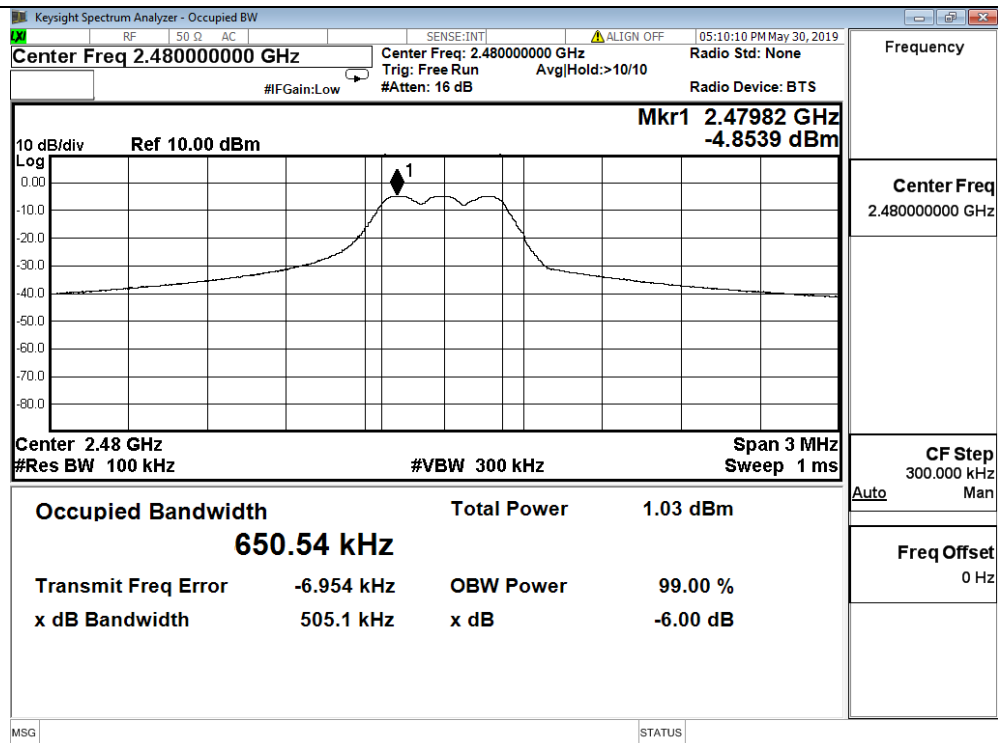
LCH



MCH

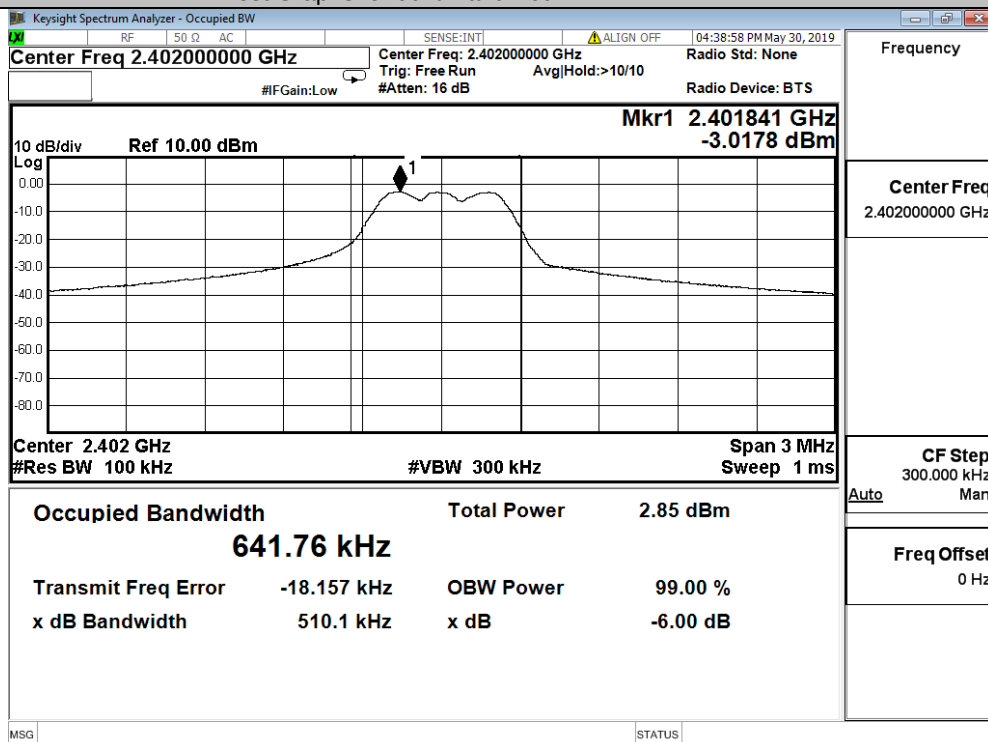


HCH

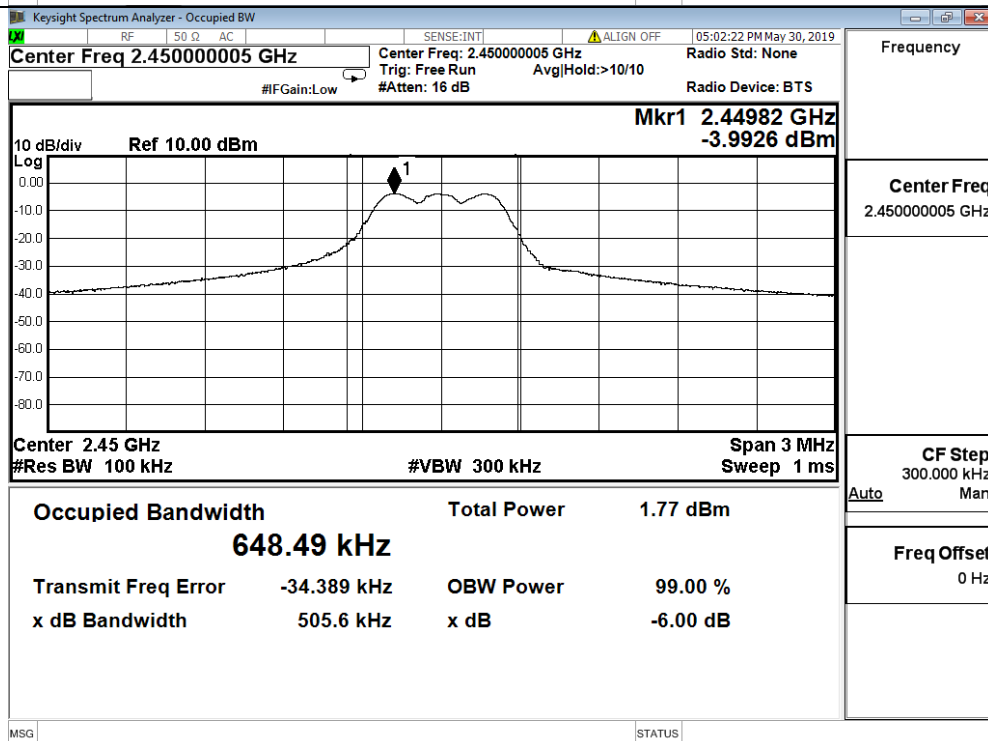


Test Graphs for 99% Bandwidth

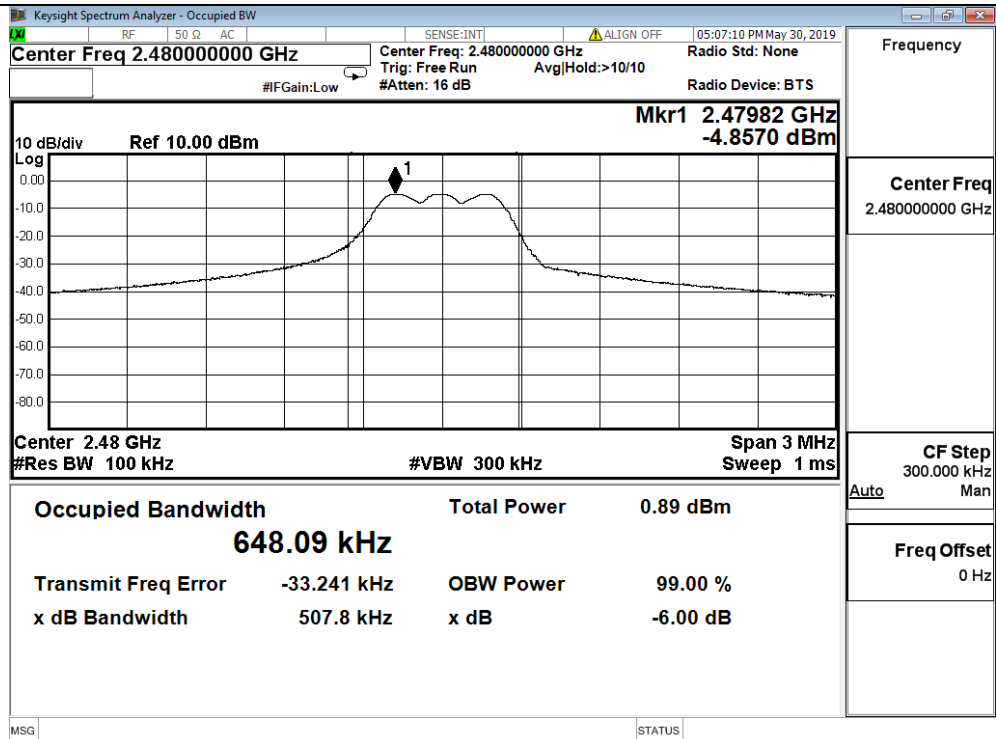
LCH



MCH

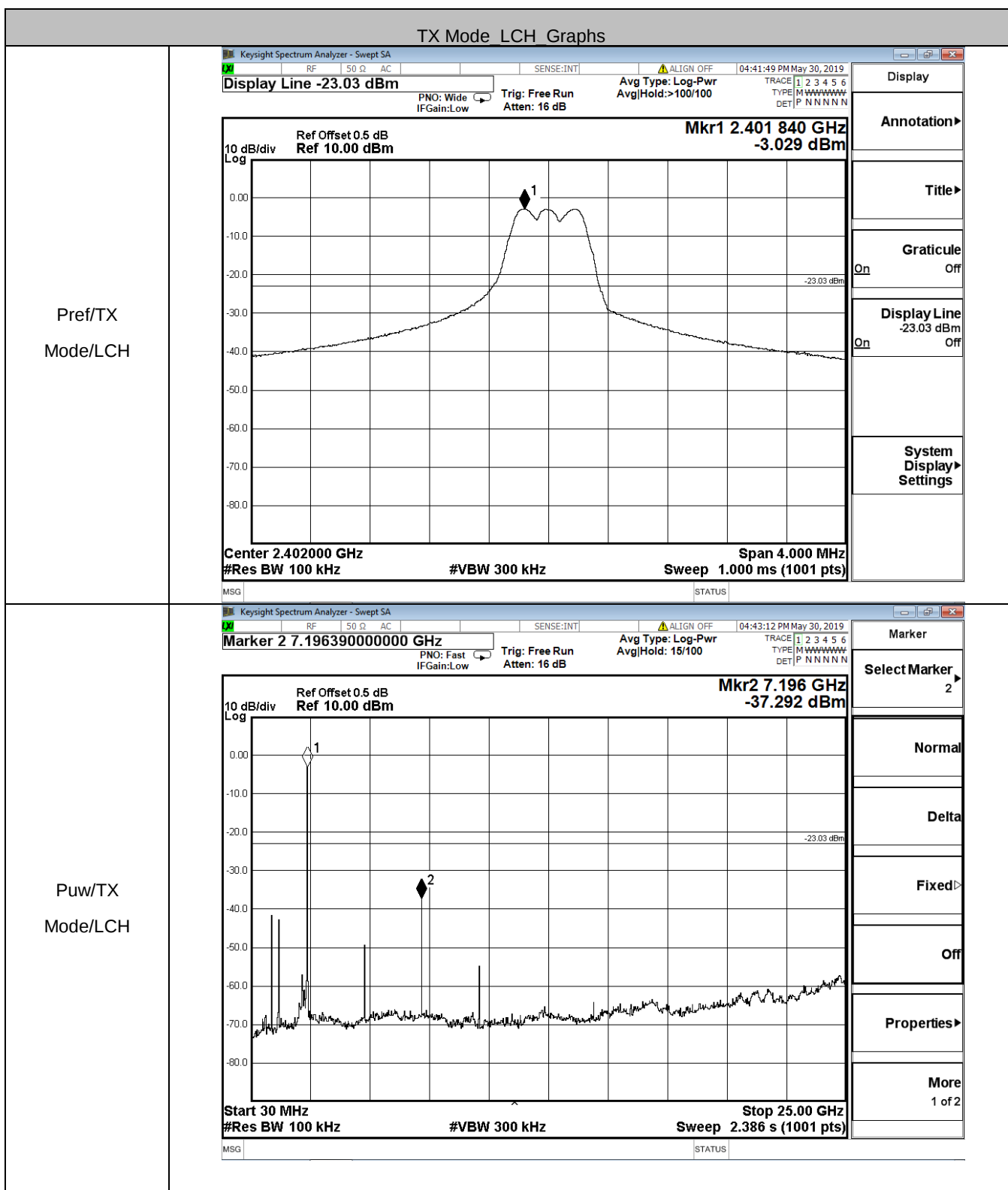


HCH

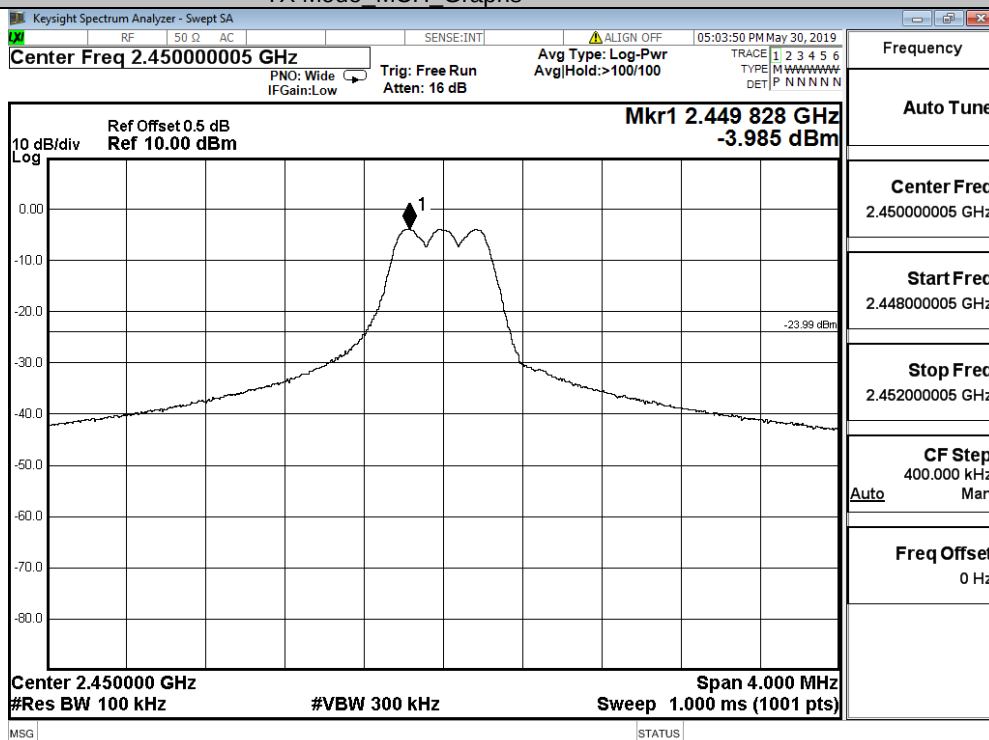
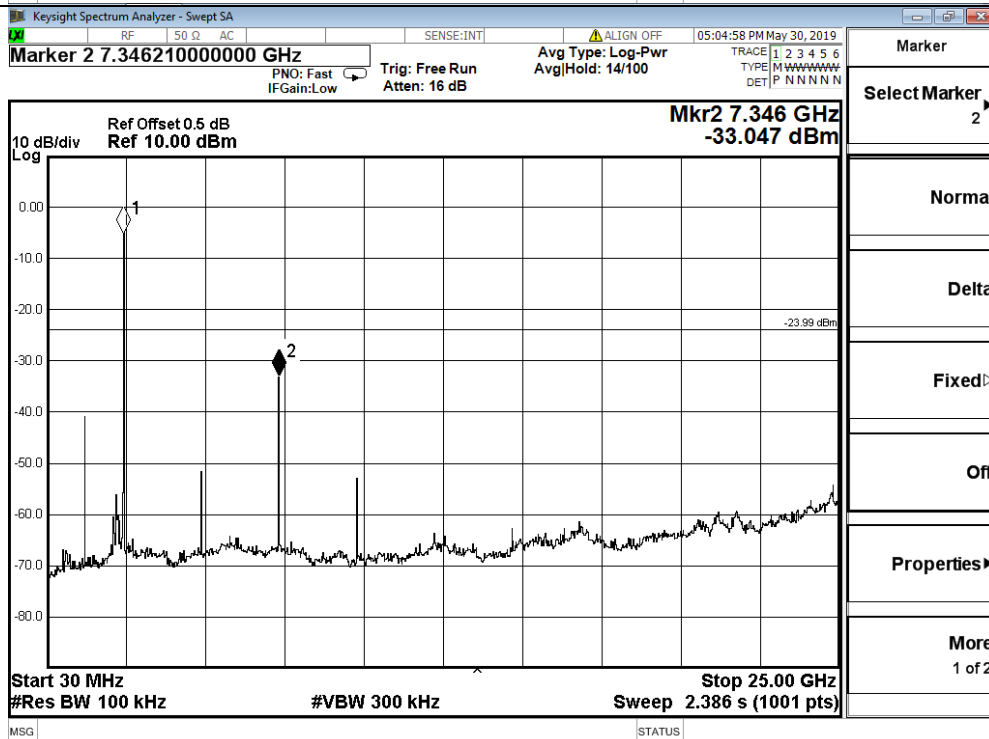


A.5 RF Conducted Spurious Emissions

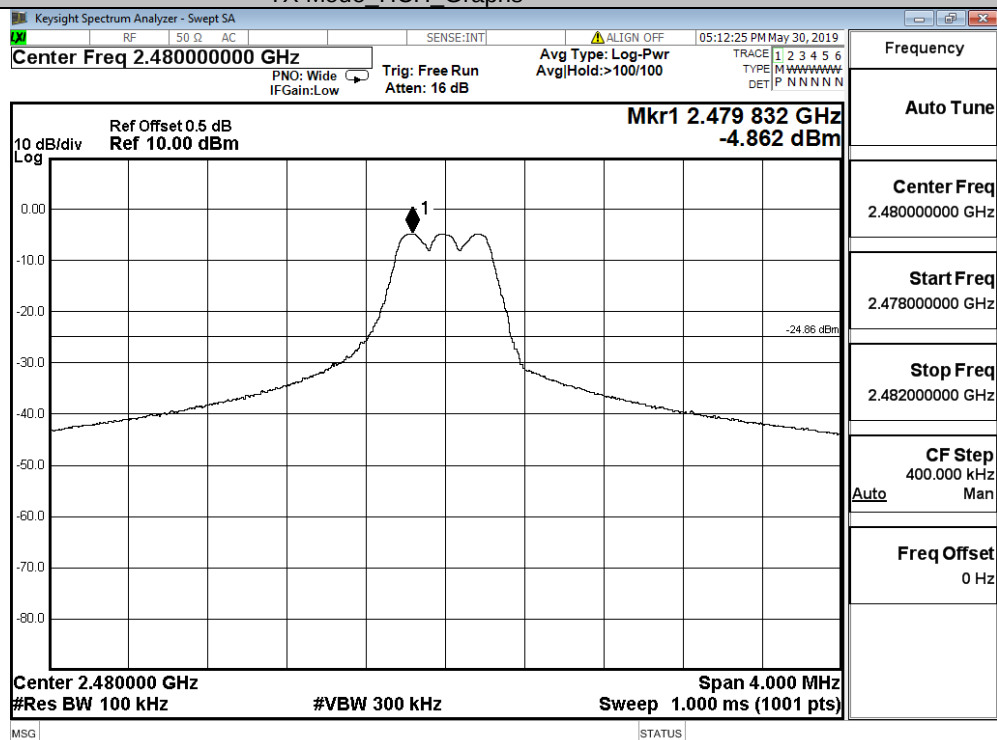
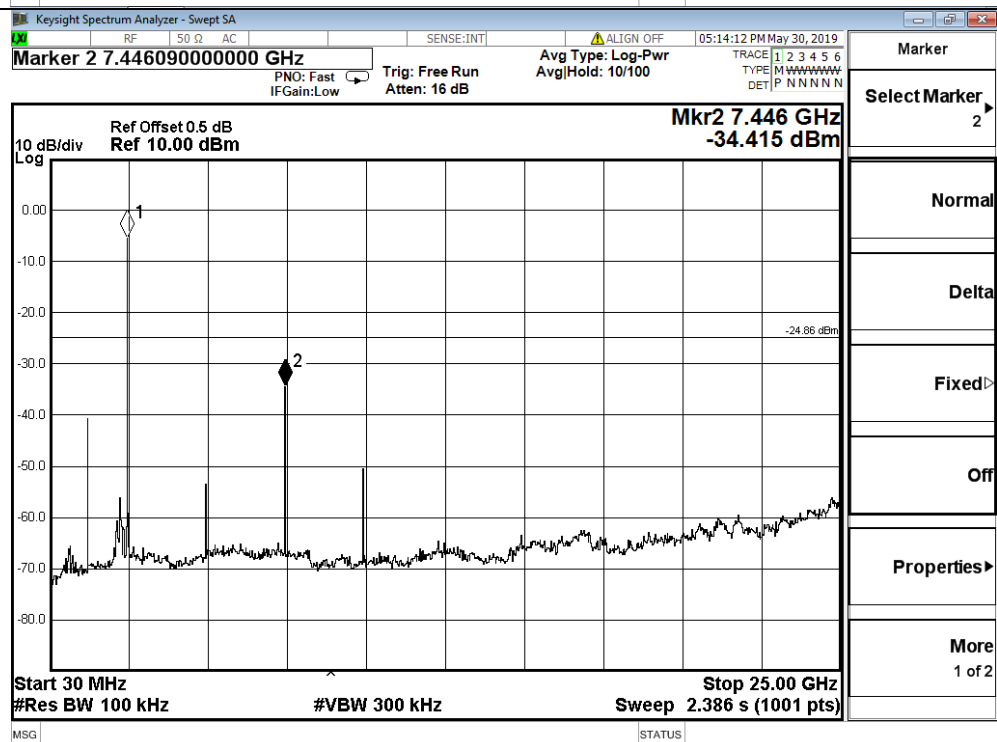
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
TX Mode	LCH	-3.029	-37.292	-23.03	PASS
TX Mode	MCH	-3.985	-33.047	-23.99	PASS
TX Mode	HCH	-4.862	-34.415	-24.86	PASS



TX Mode MCH Graphs

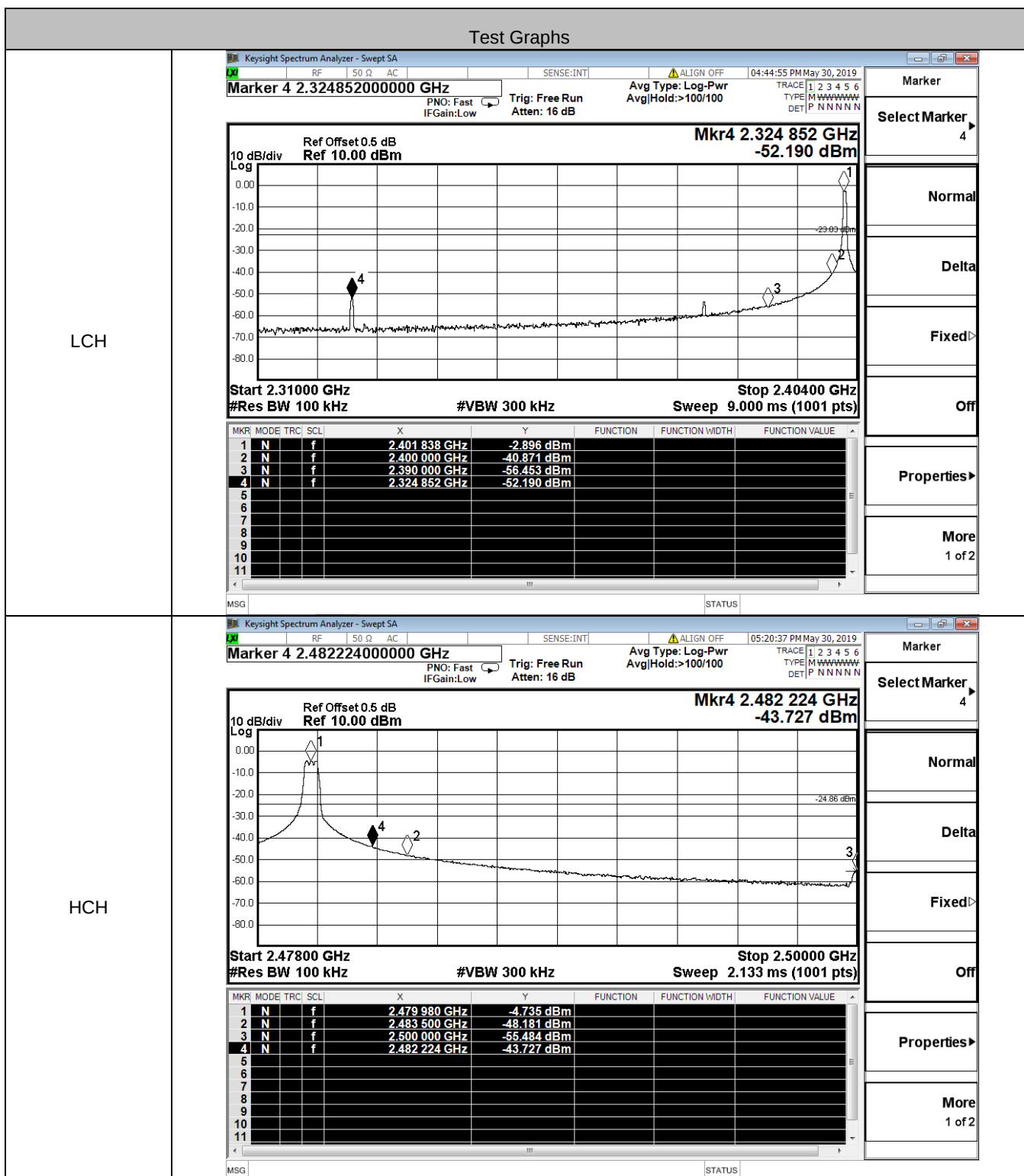
Pref/TX
Mode/MCHPuw/TX
Mode/MCH

TX Mode HCH Graphs

Pref/TX
Mode/HCHPuw/TX
Mode/HCH

A.6 Band-edge for RF Conducted Emissions

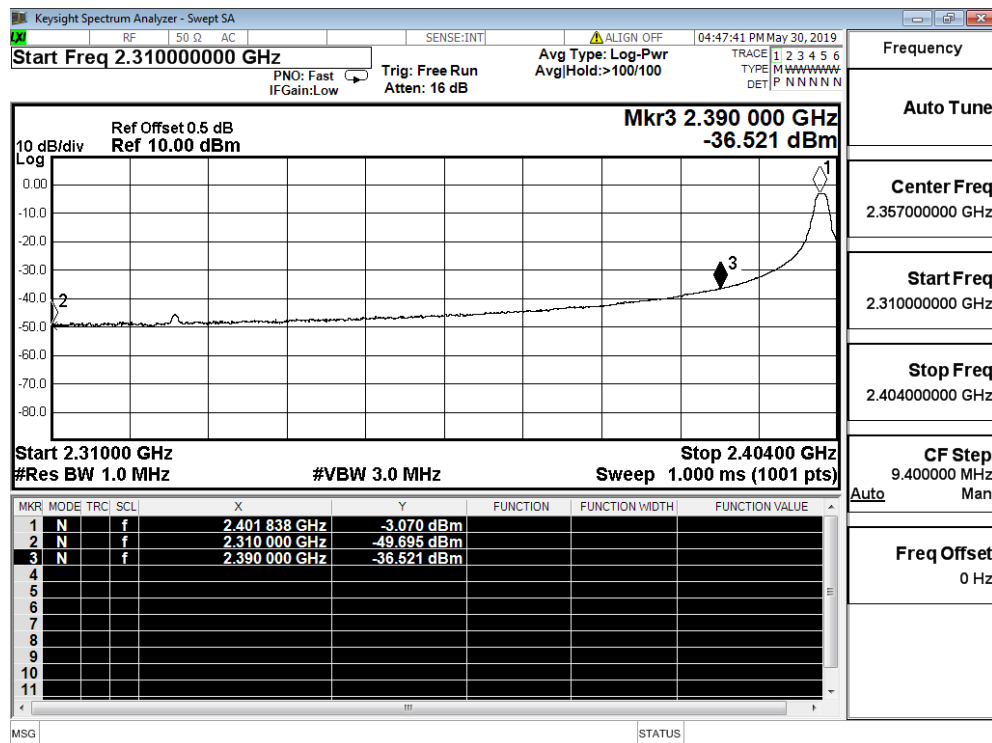
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
TX Mode	LCH	-2.896	-40.871	-23.03	PASS
TX Mode	HCH	-4.735	-43.727	-24.86	PASS



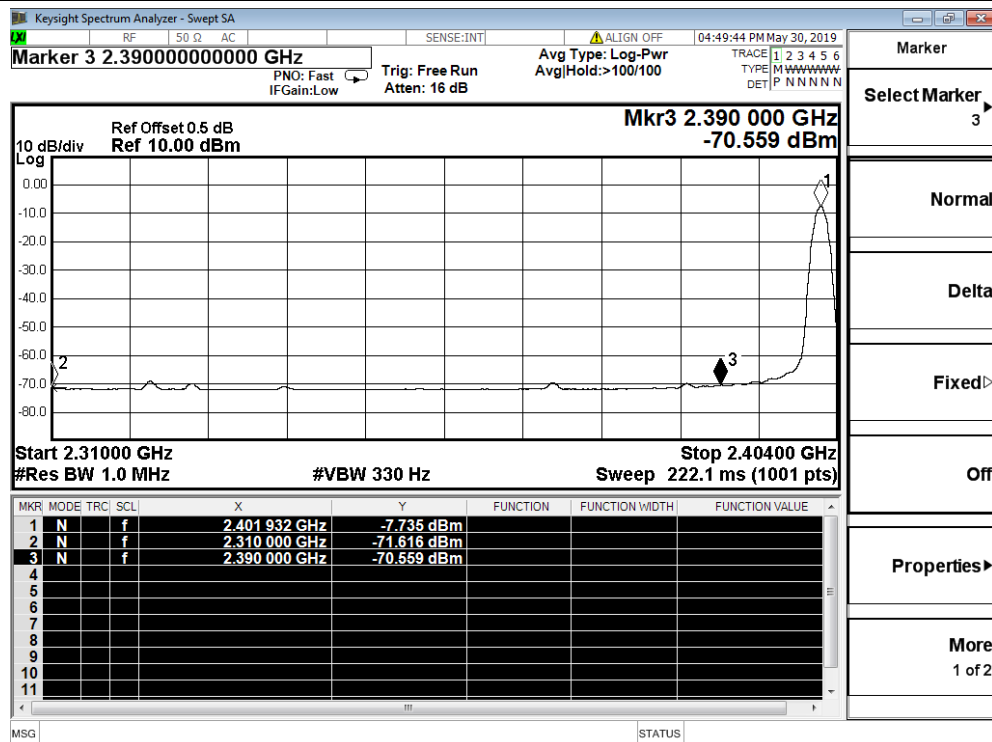
A.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
TX Mode	2402	Ant1	2310.0	-49.695	2.00	0	47.565	PEAK	74	PASS
		Ant1	2310.0	-71.616	2.00	0	25.644	AV	54	PASS
		Ant1	2390.0	-36.521	2.00	0	60.739	PEAK	74	PASS
		Ant1	2390.0	-70.559	2.00	0	26.701	AV	54	PASS
	2480	Ant1	2483.5	-28.410	2.00	0	68.850	PEAK	74	PASS
		Ant1	2483.5	-67.131	2.00	0	30.129	AV	54	PASS
		Ant1	2500.0	-43.872	2.00	0	53.388	PEAK	74	PASS
		Ant1	2500.0	-70.676	2.00	0	26.584	AV	54	PASS

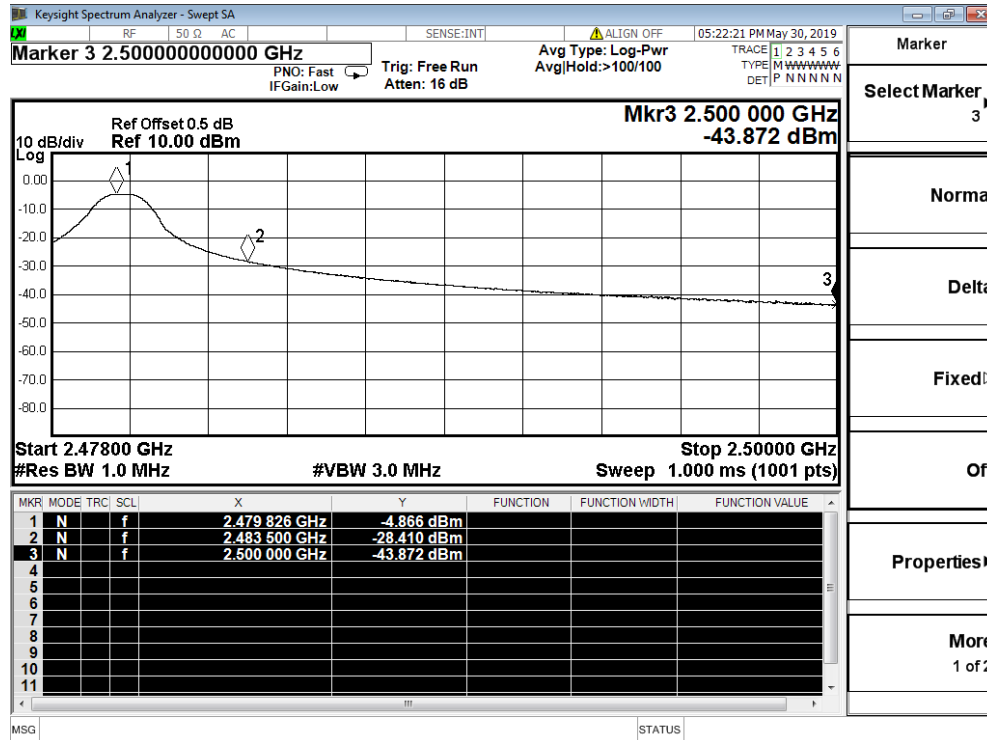
Restrict-band band-edge measurements_TX Mode_2402_Ant1_PEAK



Restrict-band band-edge measurements_TX Mode_2402_Ant1_AV



Restrict-band band-edge measurements_TX Mode_2480_Ant1_PEAK



Restrict-band band-edge measurements_TX Mode_2480_Ant1_AV

