

Appendix A

RF Test Data (Conducted Measurement)

Product Name: LiquidAider

Trade Mark: LiquidAider

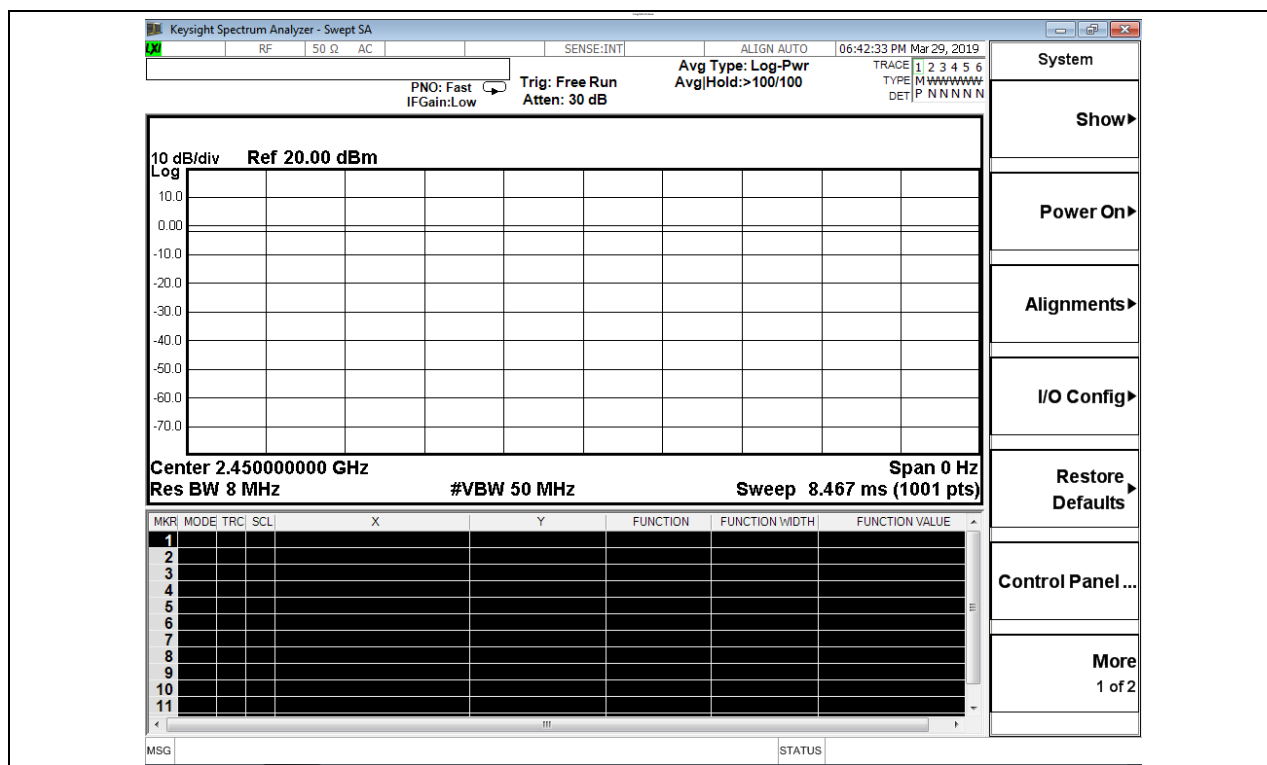
Test Model: LAB-001

Environmental Conditions

Temperature:	24.5 °C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Wang.Chuang
Supervised by:	Tom.Liu

A.1 Duty Cycle

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

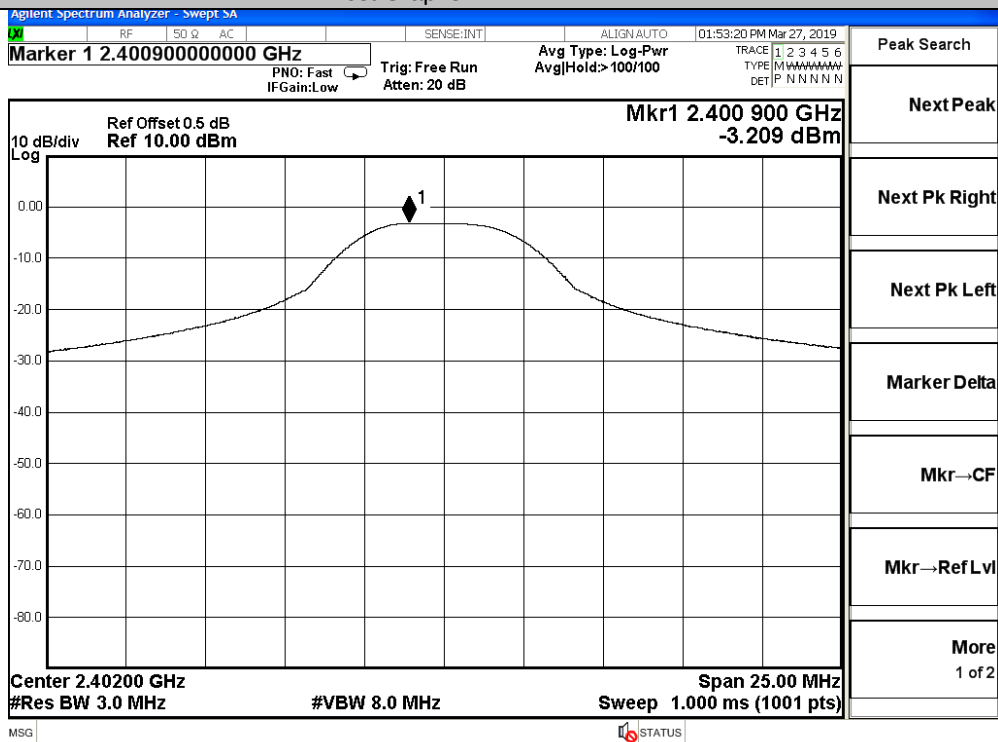


A.2 Maximum Conducted Peak Output Power

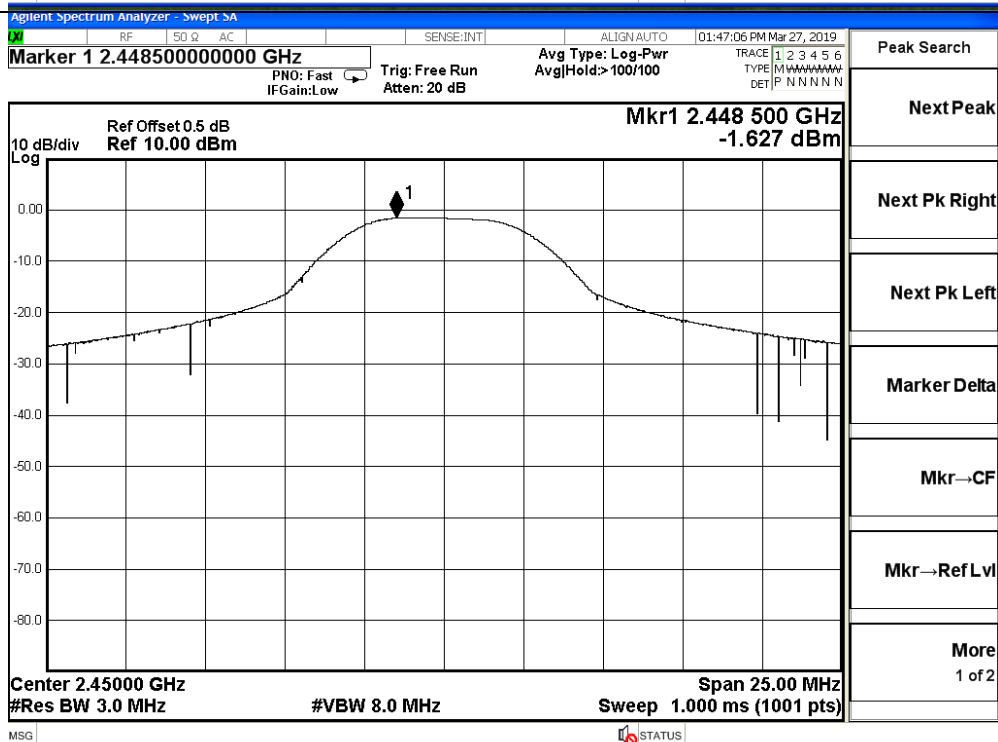
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
TX Mode	LCH	-3.209	30	PASS
TX Mode	MCH	-1.627	30	PASS
TX Mode	HCH	-1.052	30	PASS

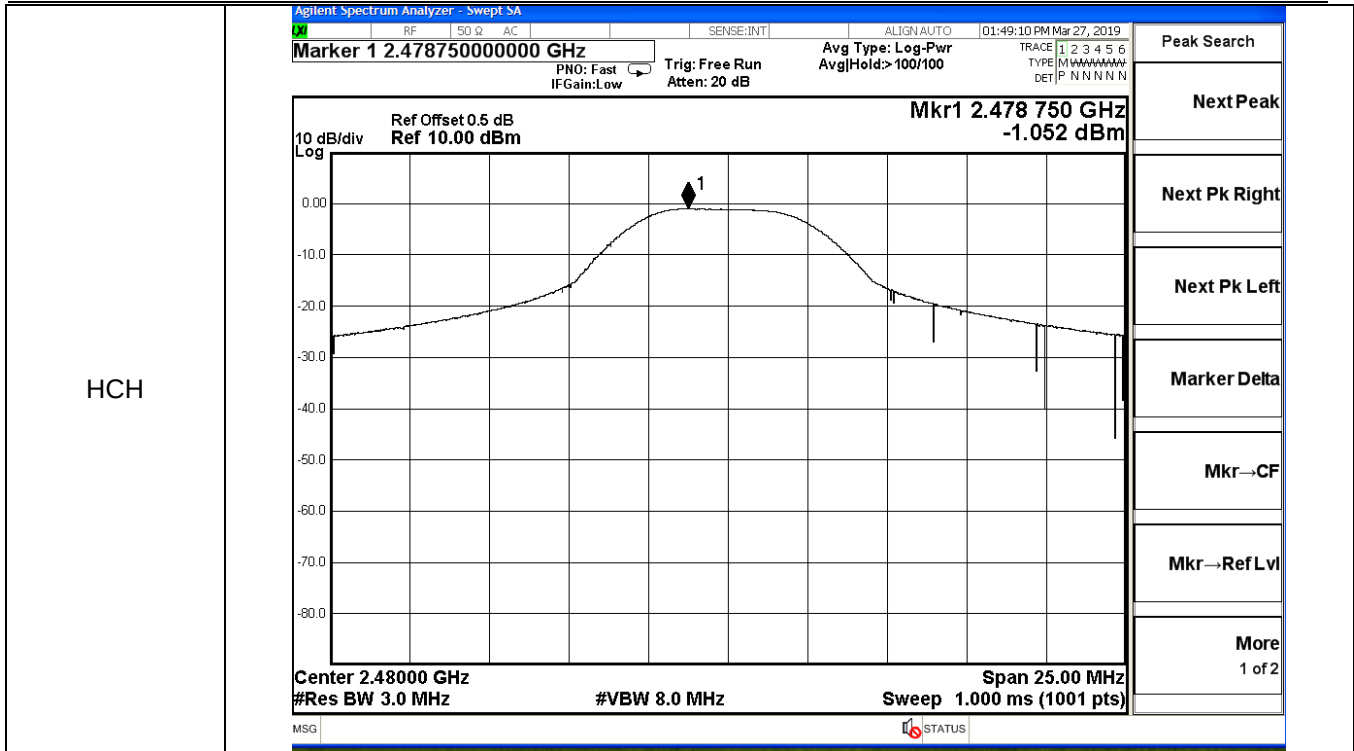
Test Graphs

LCH



MCH



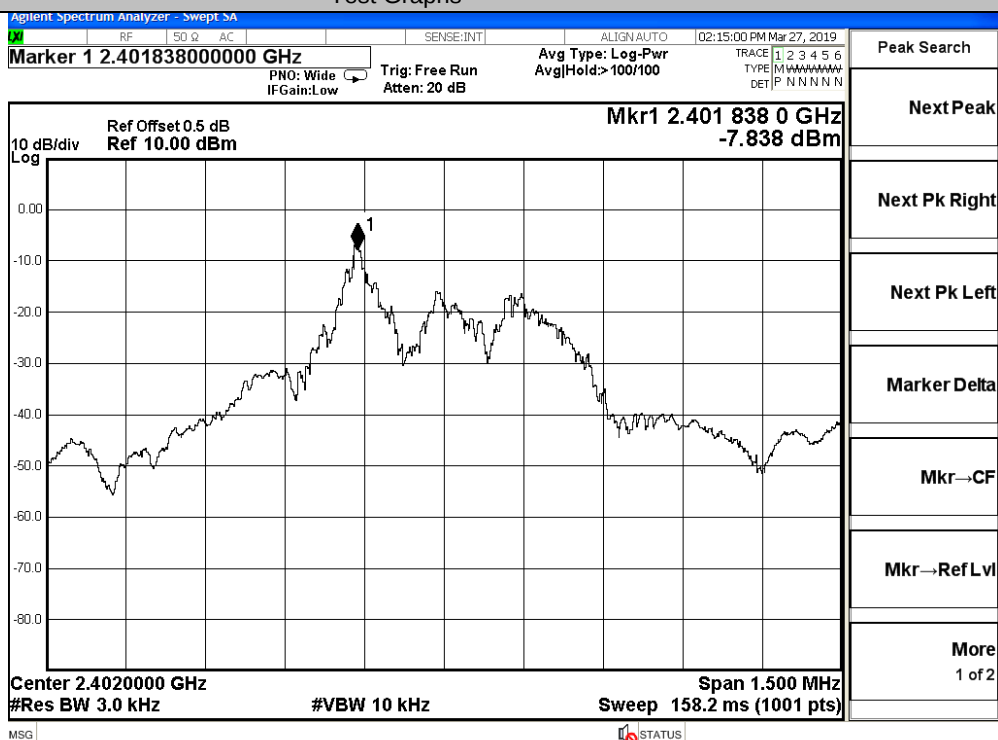


A.3 Maximum Power Spectral Density

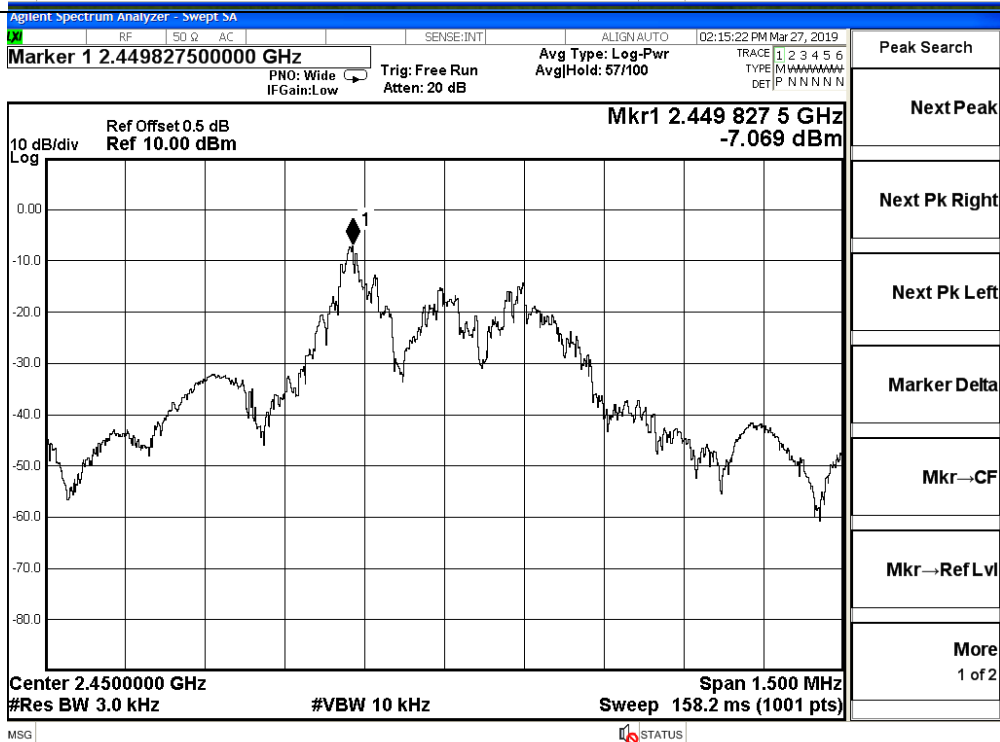
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
TX Mode	LCH	-7.838	8	PASS
TX Mode	MCH	-7.069	8	PASS
TX Mode	HCH	-6.008	8	PASS

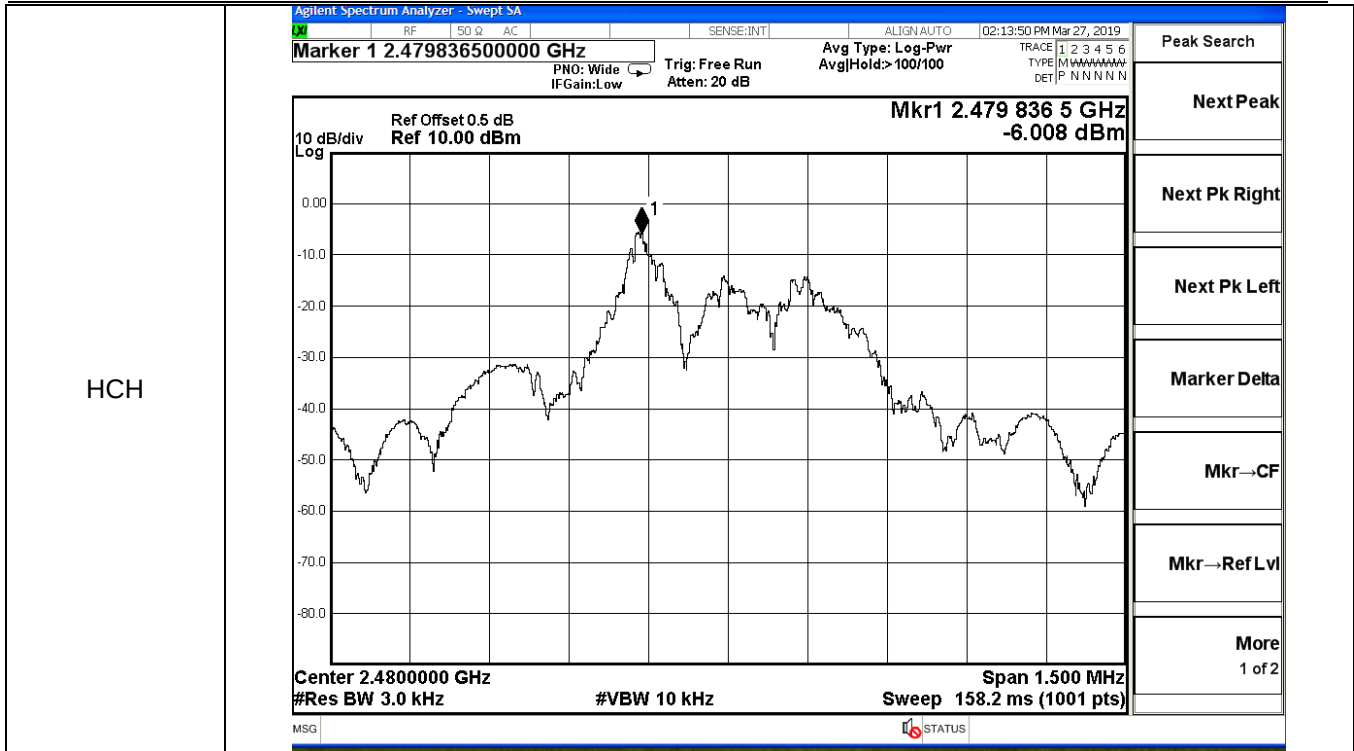
Test Graphs

LCH



MCH



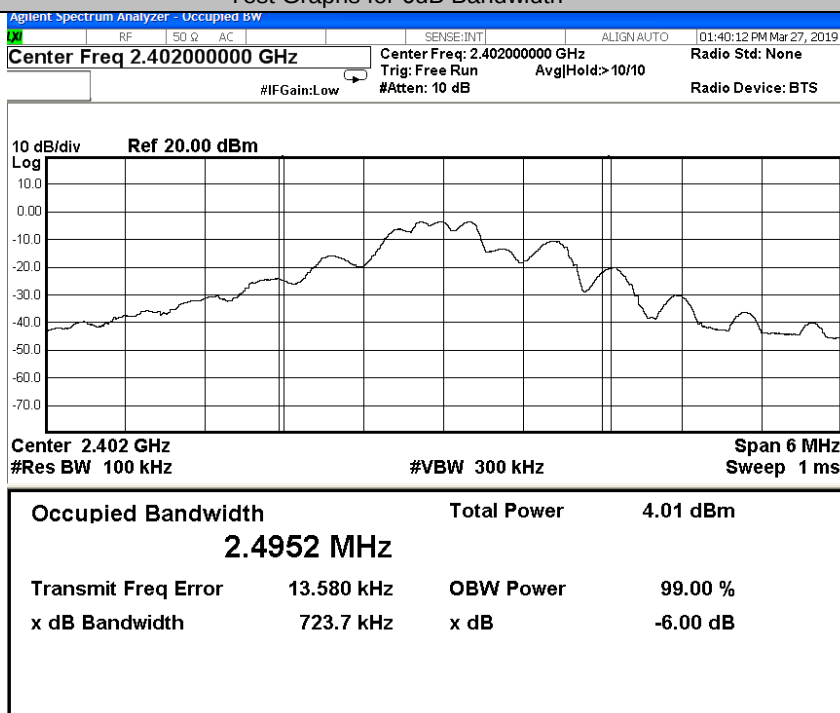


A.4 Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	99% Bandwidth [MHz]	Limit [MHz]	Verdict
TX Mode	LCH	0.7237	2.4142	≥ 0.5	PASS
TX Mode	MCH	0.7653	2.9426	≥ 0.5	PASS
TX Mode	HCH	0.7387	2.8730	≥ 0.5	PASS

Test Graphs for 6dB Bandwidth

LCH



Trace/Detector

Clear Write

Average

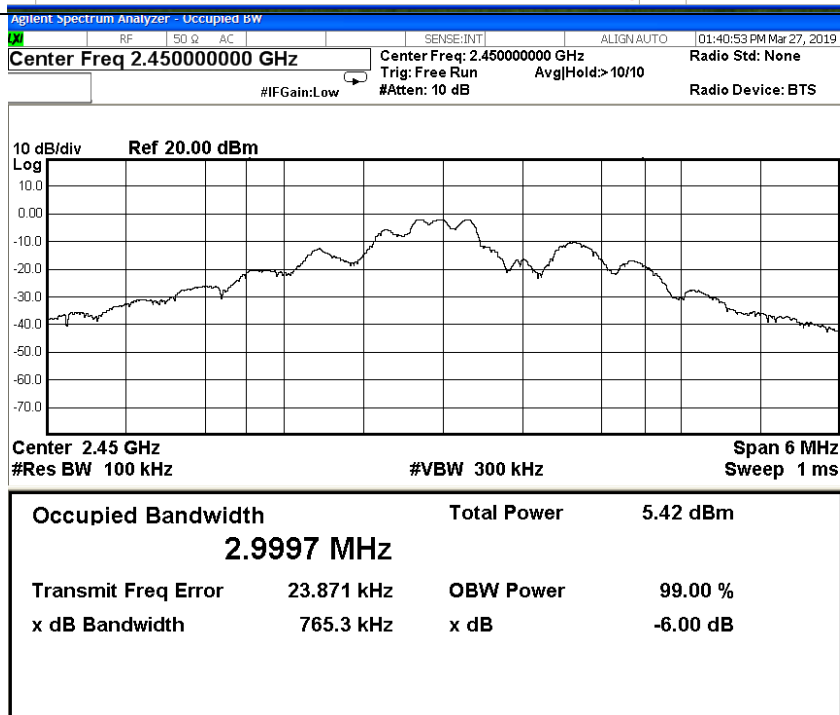
Max Hold

Min Hold

Detector

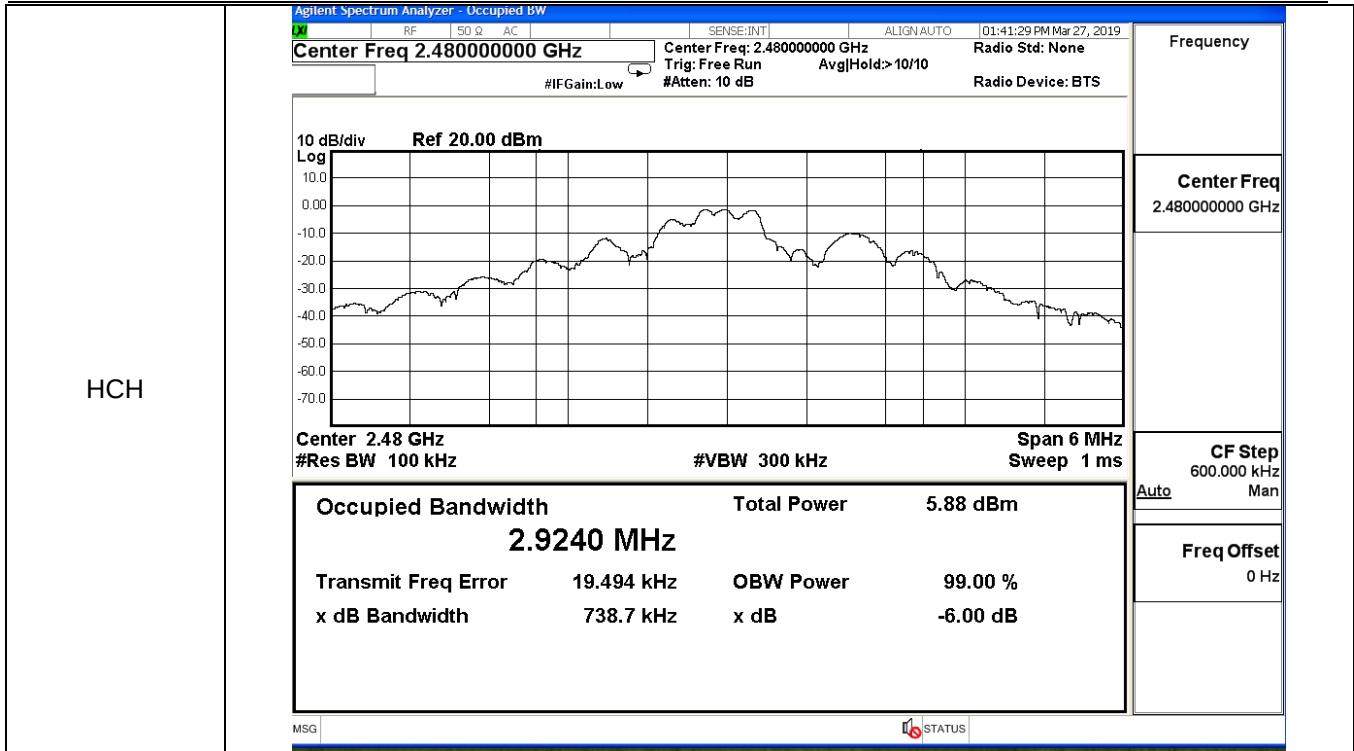
Auto Peak Man

MCH



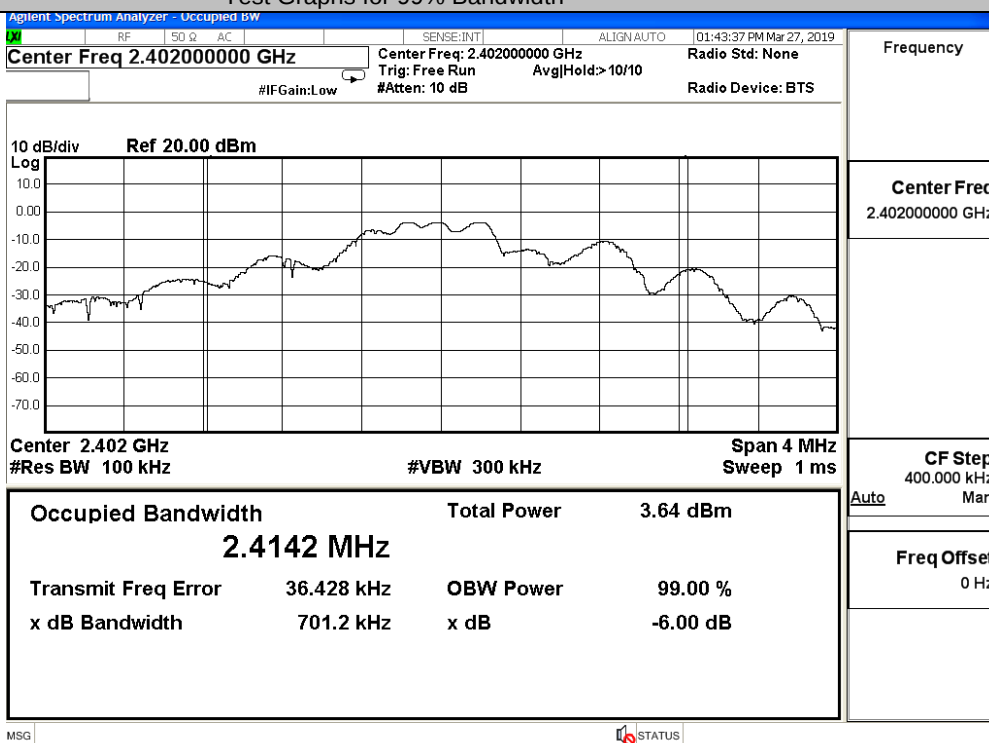
Frequency

Center Freq
2.450000000 GHzCF Step
600.000 kHz
Auto ManFreq Offset
0 Hz

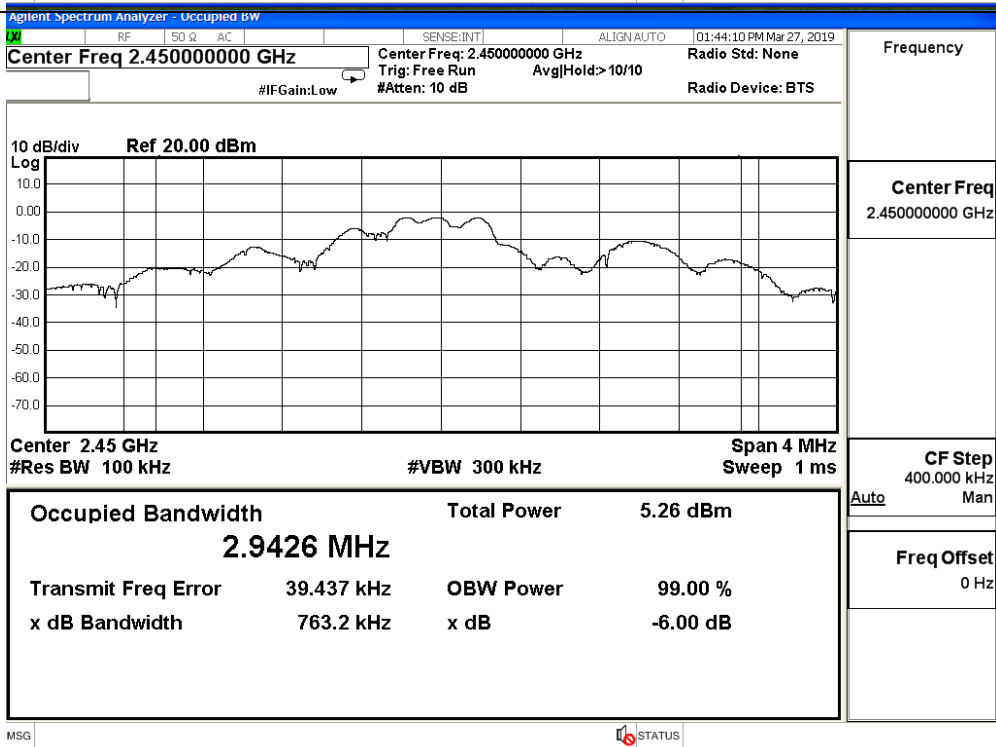


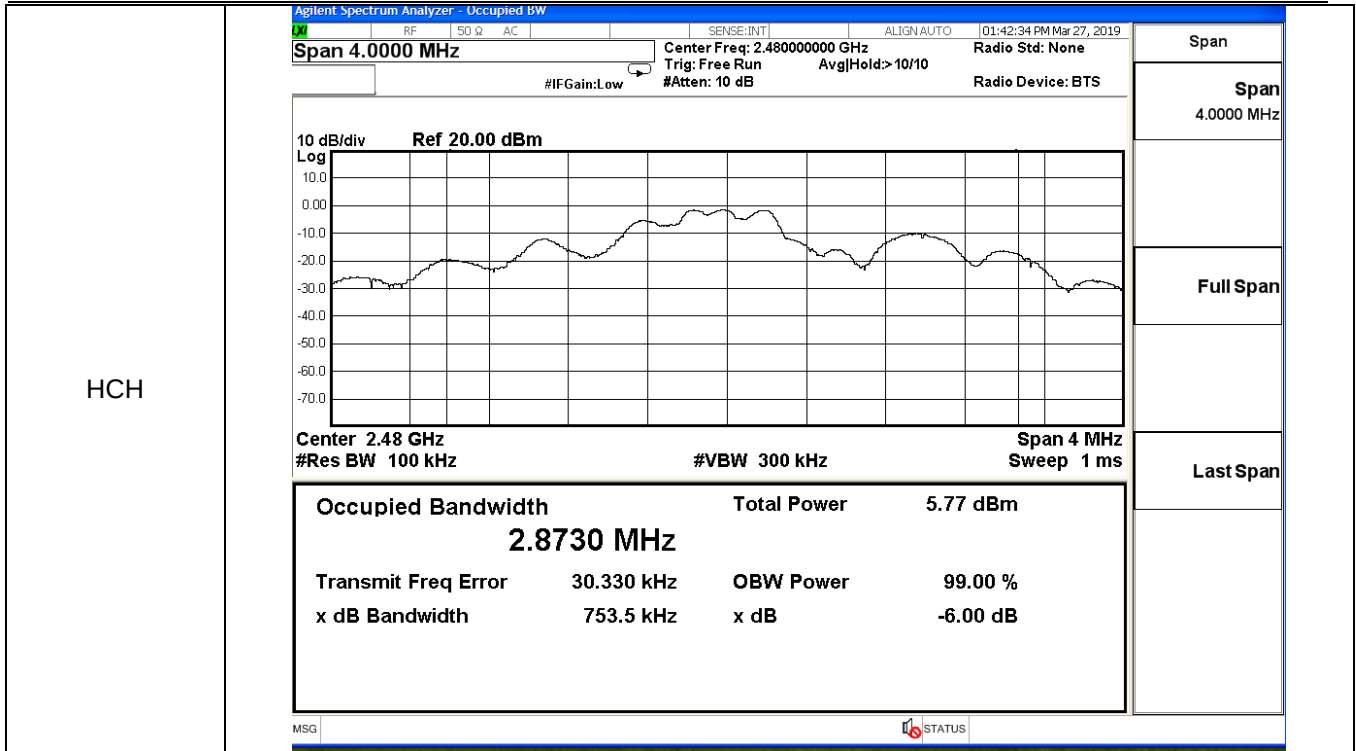
Test Graphs for 99% Bandwidth

LCH



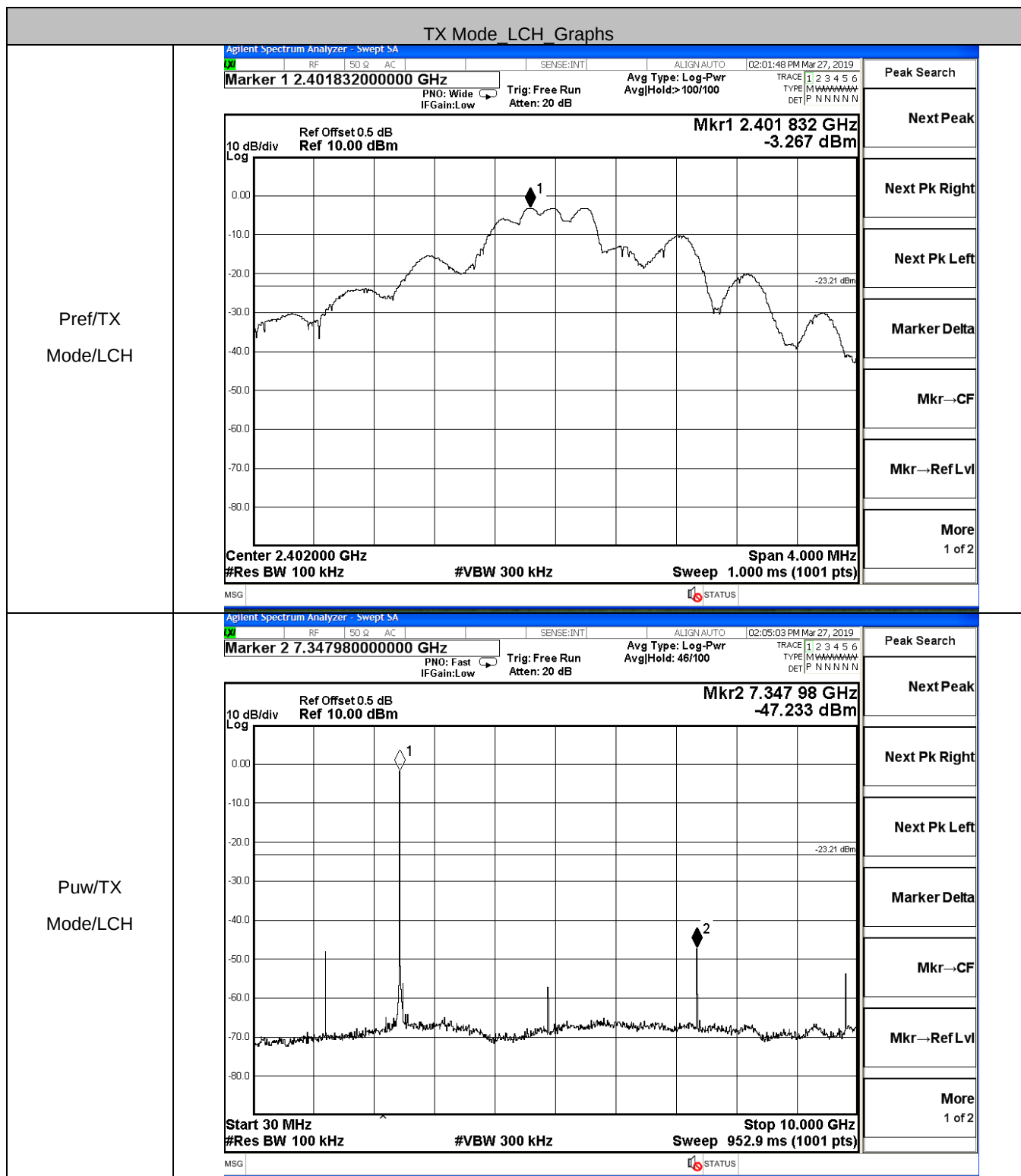
MCH

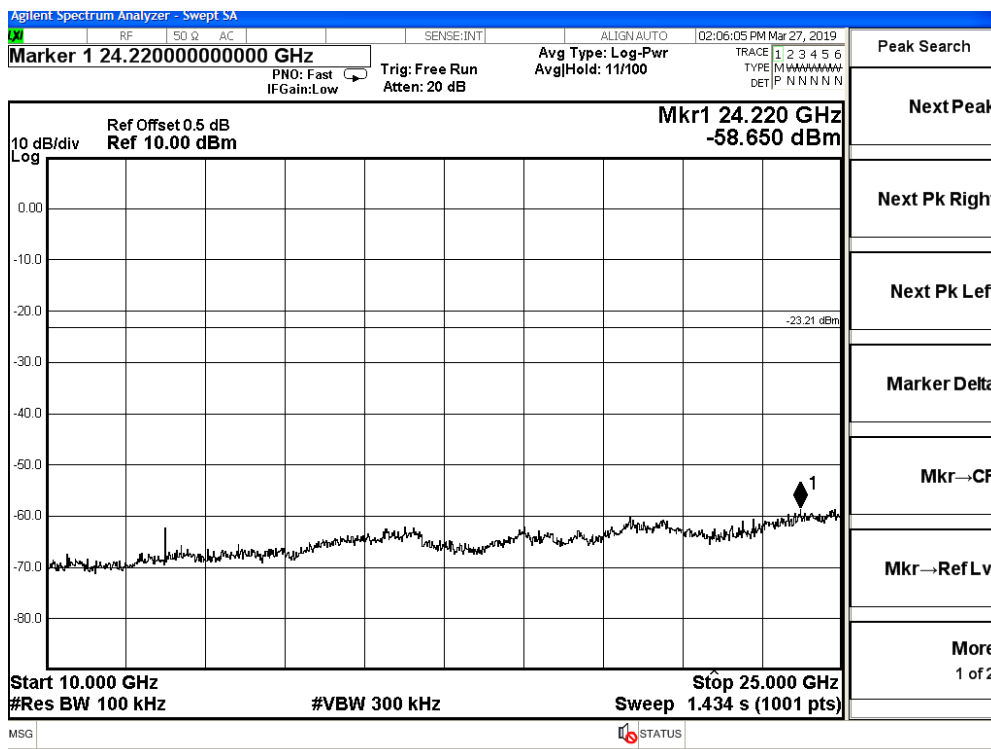




A.5 RF Conducted Spurious Emissions

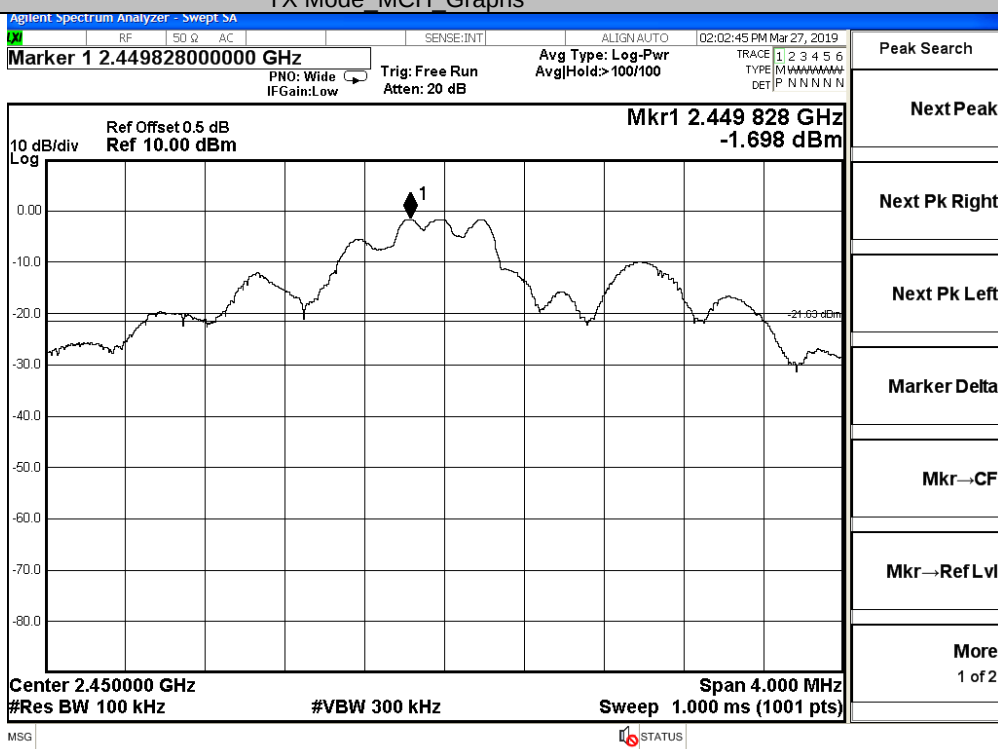
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
TX Mode	LCH	-3.267	-47.233	-23.21	PASS
TX Mode	MCH	-1.698	-47.356	-21.69	PASS
TX Mode	HCH	-1.153	-47.343	-21.10	PASS

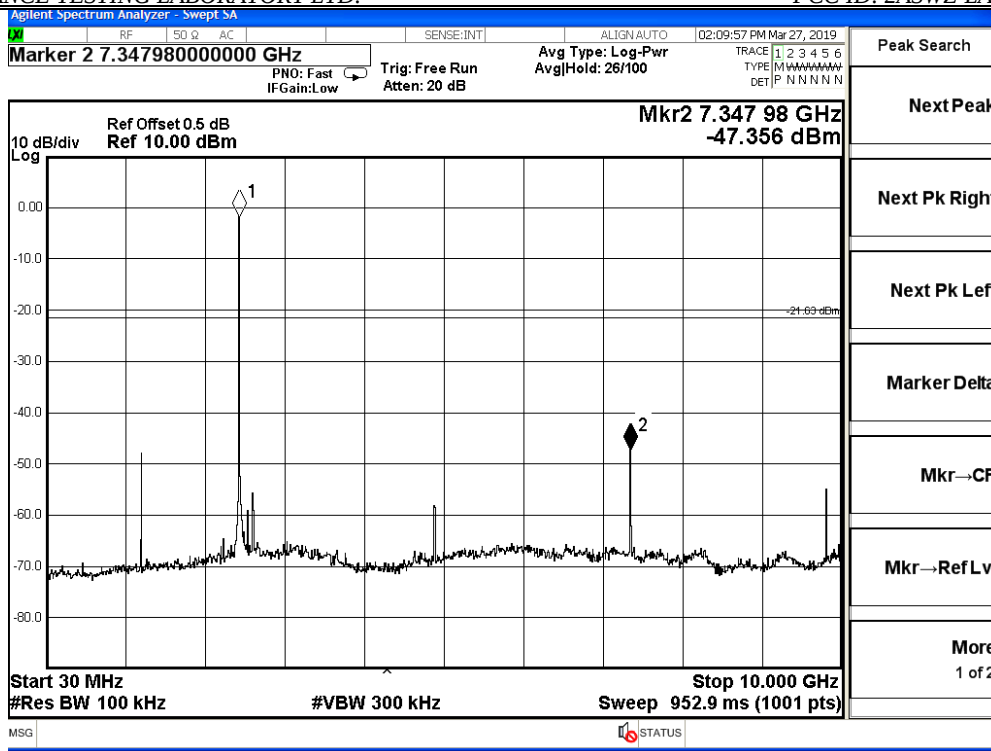




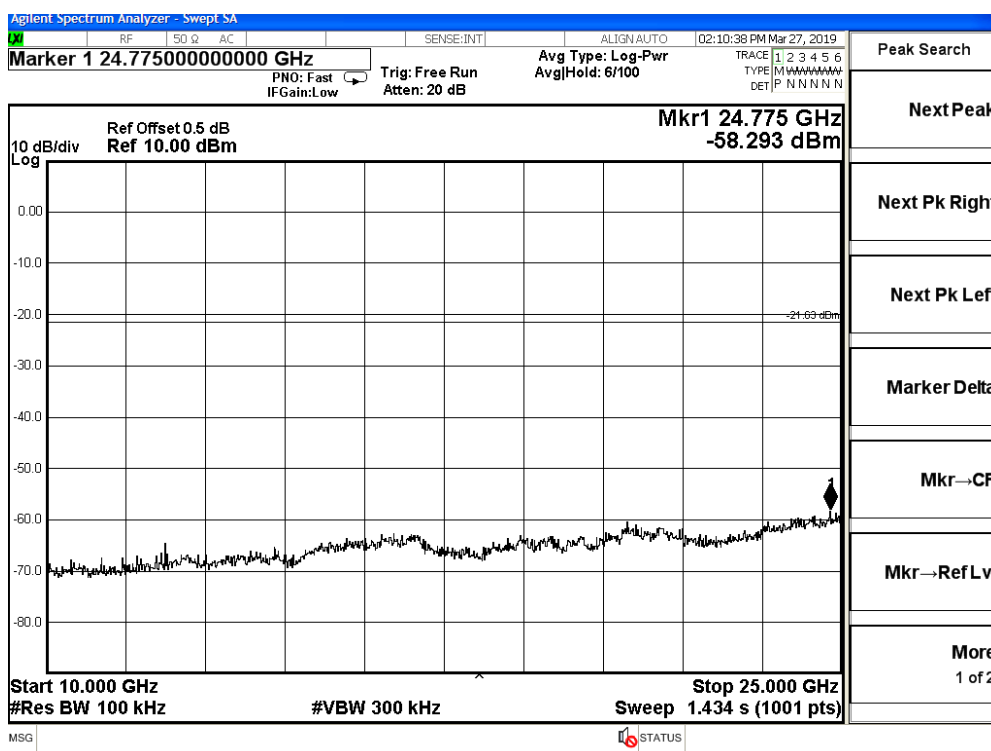
TX Mode_MCH_Graphs

Pref/TX
Mode/MCH





Puw/TX
Mode/MCH



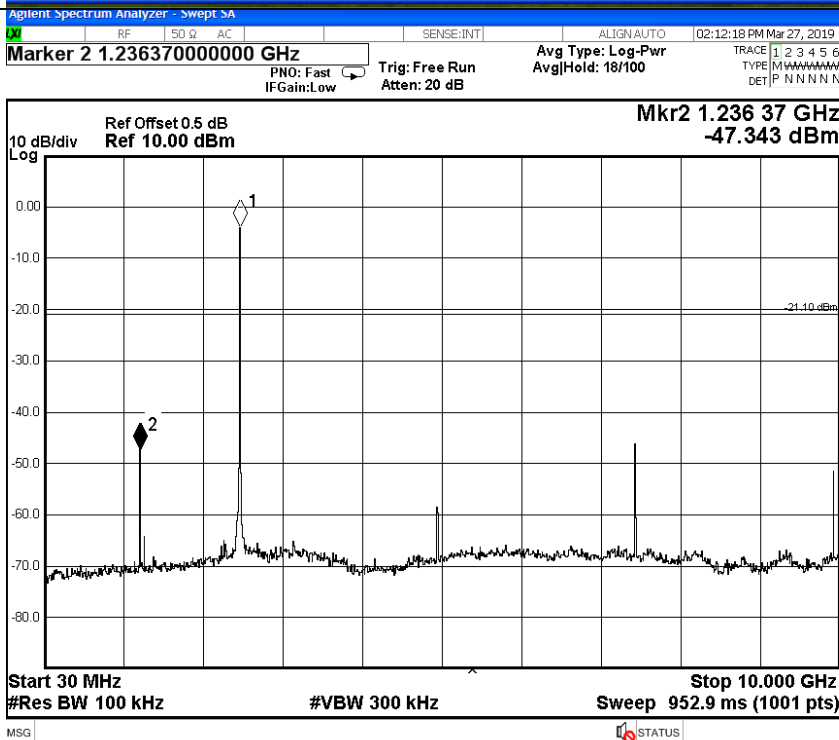
TX Mode HCH Graphs

Pref/TX
Mode/HCH

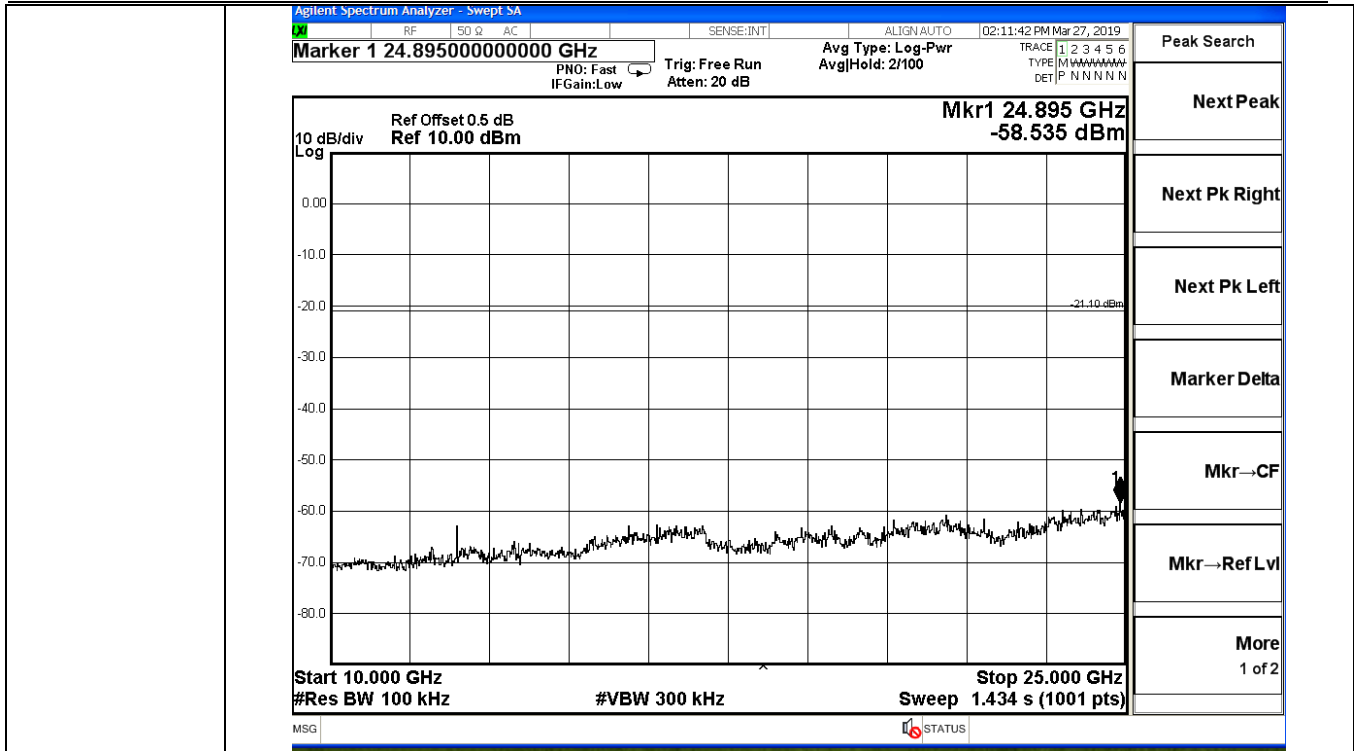


- Peak Search
- Next Peak
- Next Pk Right
- Next Pk Left
- Marker Delta
- Mkr→CF
- Mkr→Ref Lvl
- More
1 of 2

Puw/TX
Mode/HCH



- Peak Search
- Next Peak
- Next Pk Right
- Next Pk Left
- Marker Delta
- Mkr→CF
- Mkr→Ref Lvl
- More
1 of 2

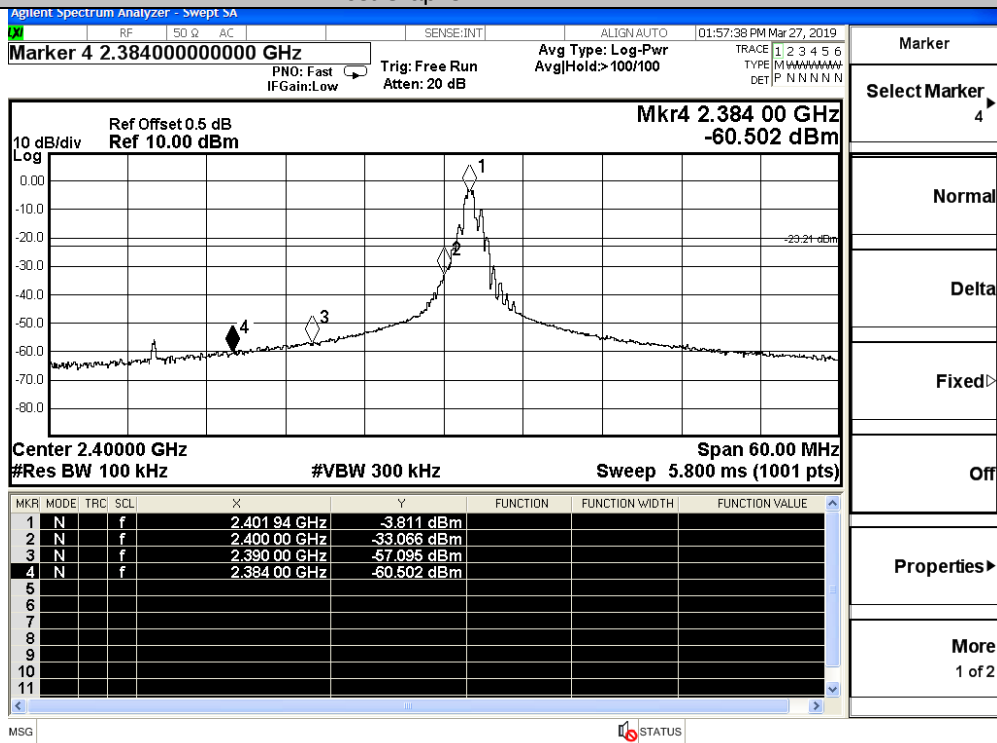


A.6 Band-edge for RF Conducted Emissions

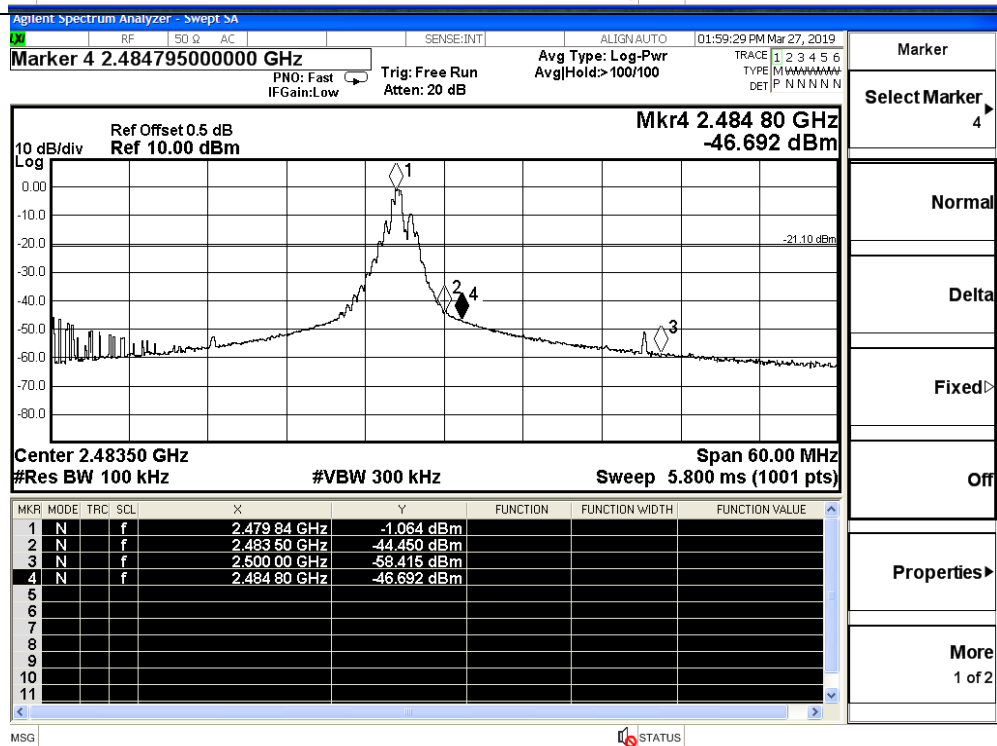
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
TX Mode	LCH	-3.811	-33.066	-23.21	PASS
TX Mode	HCH	-1.064	-44.450	-21.10	PASS

Test Graphs

LCH



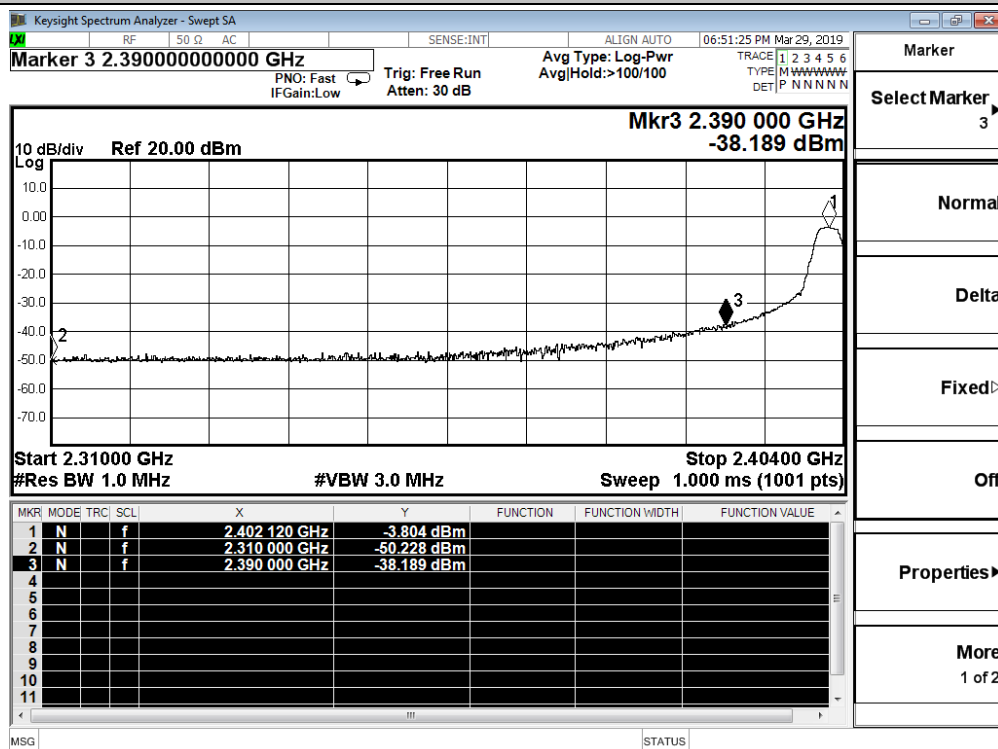
HCH



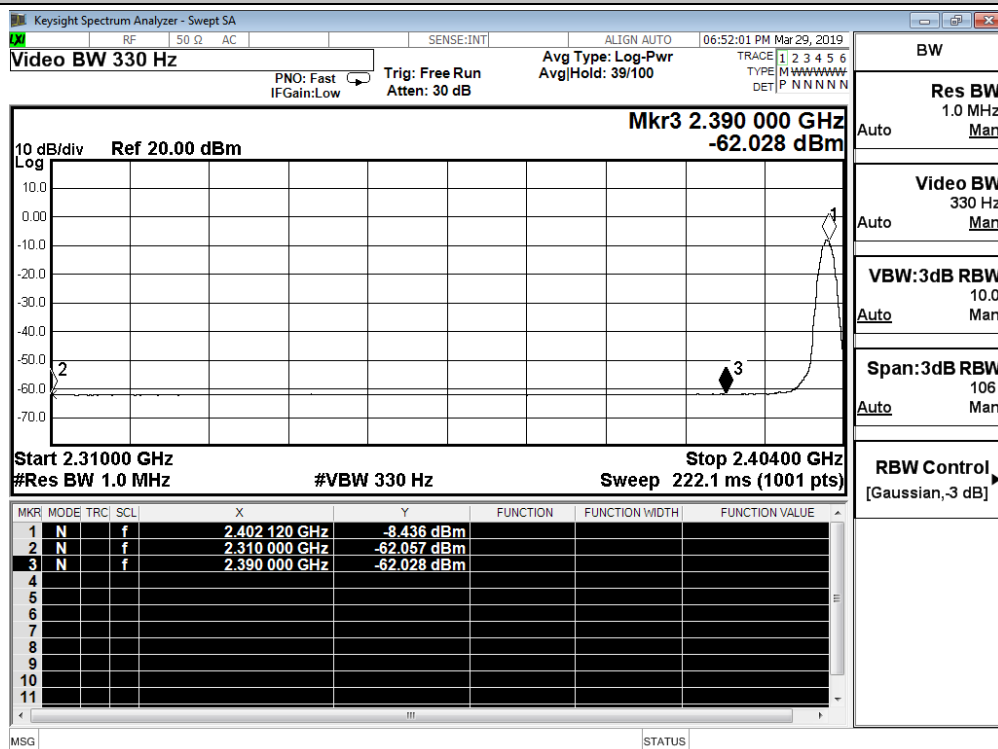
A.7 Restrict-band band-edge measurements

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	-50.228	2.00	0	47.002	PEAK	74	PASS
		Ant1	2310.0	-62.057	2.00	0	35.173	AV	54	PASS
		Ant1	2390.0	-38.189	2.00	0	59.041	PEAK	74	PASS
		Ant1	2390.0	-62.028	2.00	0	35.202	AV	54	PASS
	2480	Ant1	2483.5	-47.838	2.00	0	49.392	PEAK	74	PASS
		Ant1	2483.5	-59.762	2.00	0	37.468	AV	54	PASS
		Ant1	2500.0	-50.867	2.00	0	46.363	PEAK	74	PASS
		Ant1	2500.0	-61.653	2.00	0	35.577	AV	54	PASS

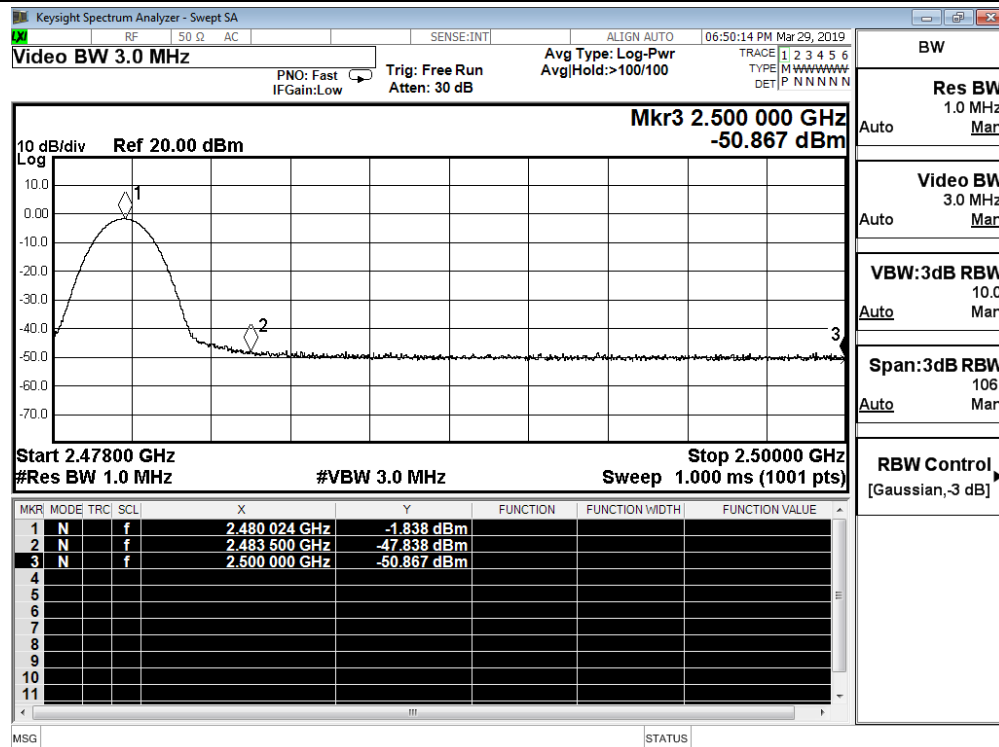
Restrict-band band-edge measurements_TX Mode_2402_Ant1_PEAK



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

