

Appendix A

RF Test Data for BT 4.0(BLE) (Conducted Measurement)

Product Name: SRP18 Touch Control Ring Lamp

Trade Mark: Neewer

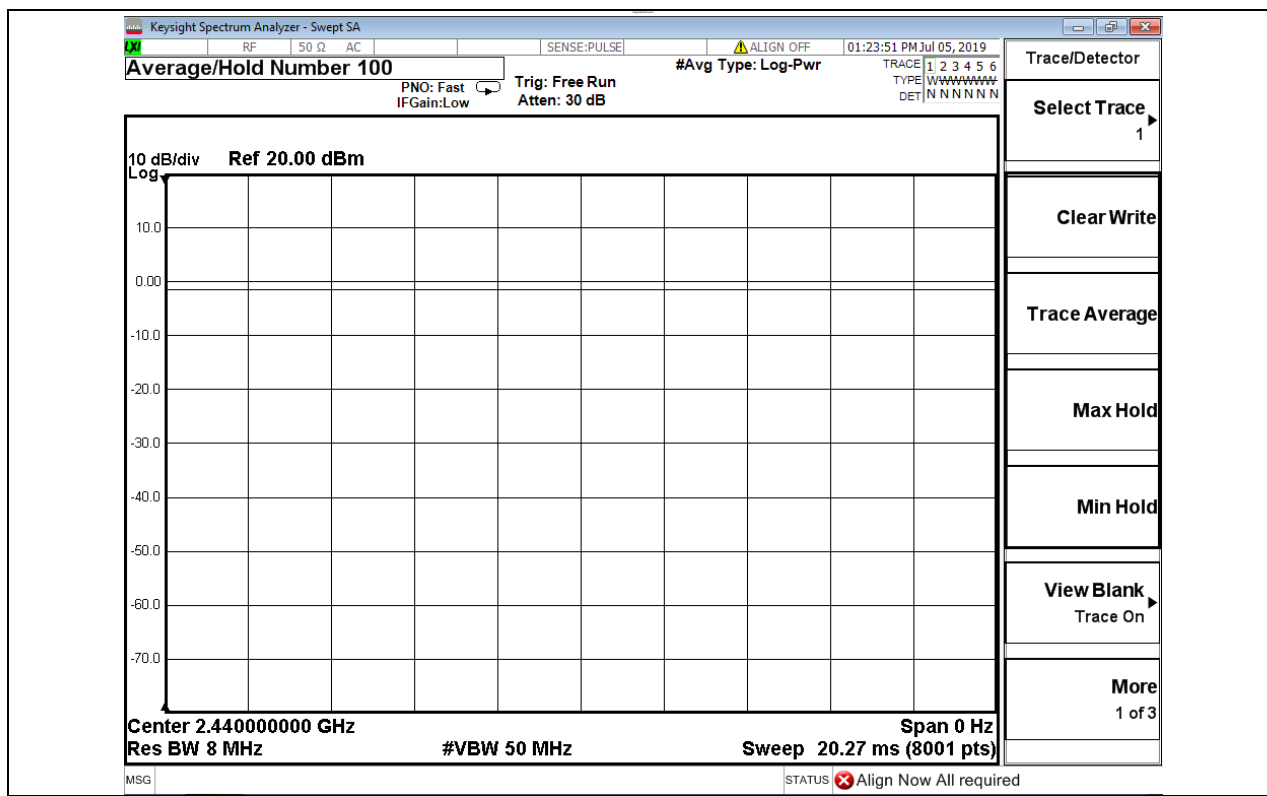
Test Model: SRP18

Environmental Conditions

Temperature:	23.7 ° C
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	CHUANG WANG
Supervised by:	JAYDEN ZHUO

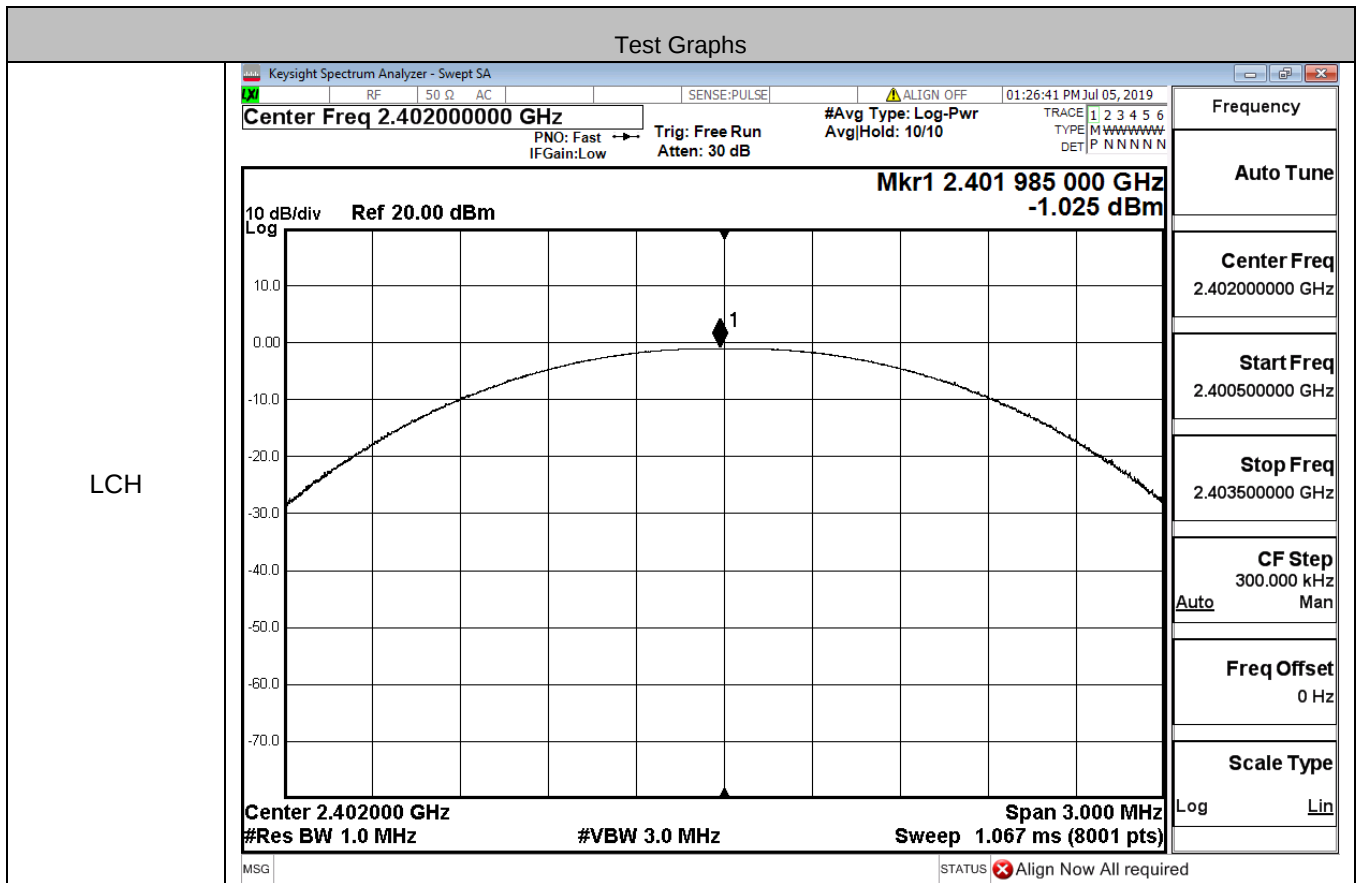
A.1 Duty Cycle

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

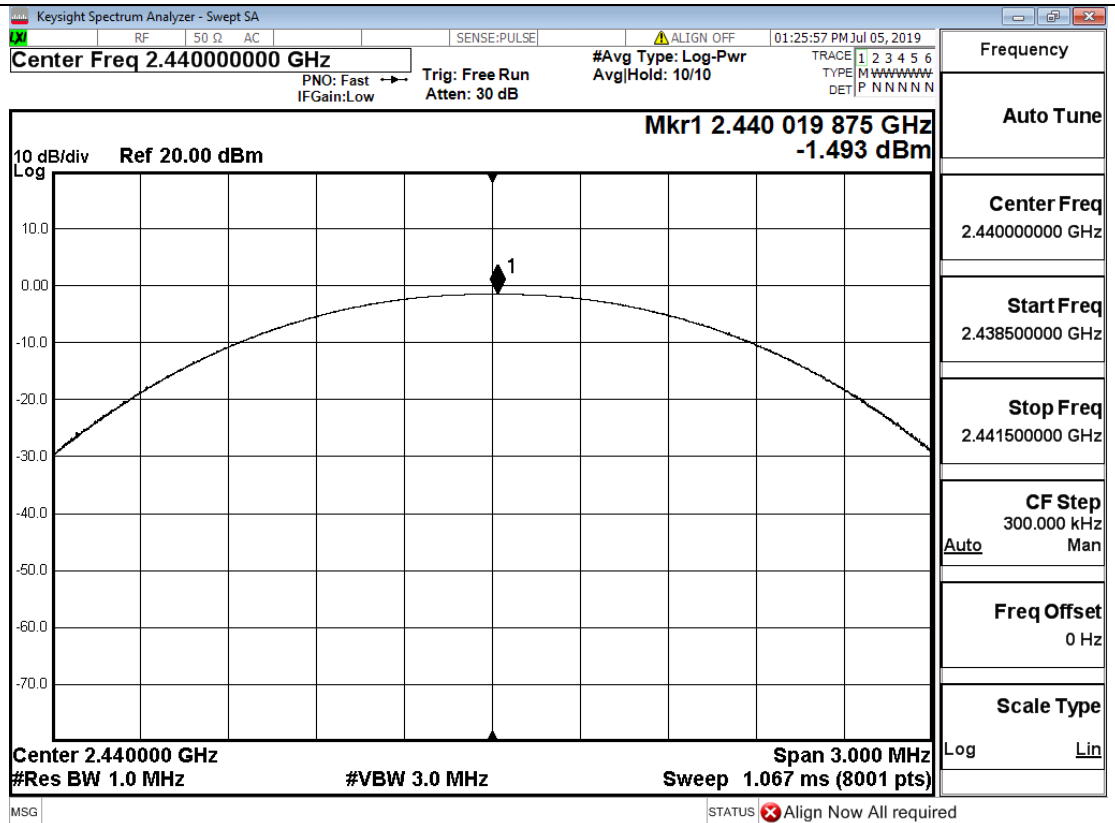


A.2 Maximum Conducted Peak Output Power

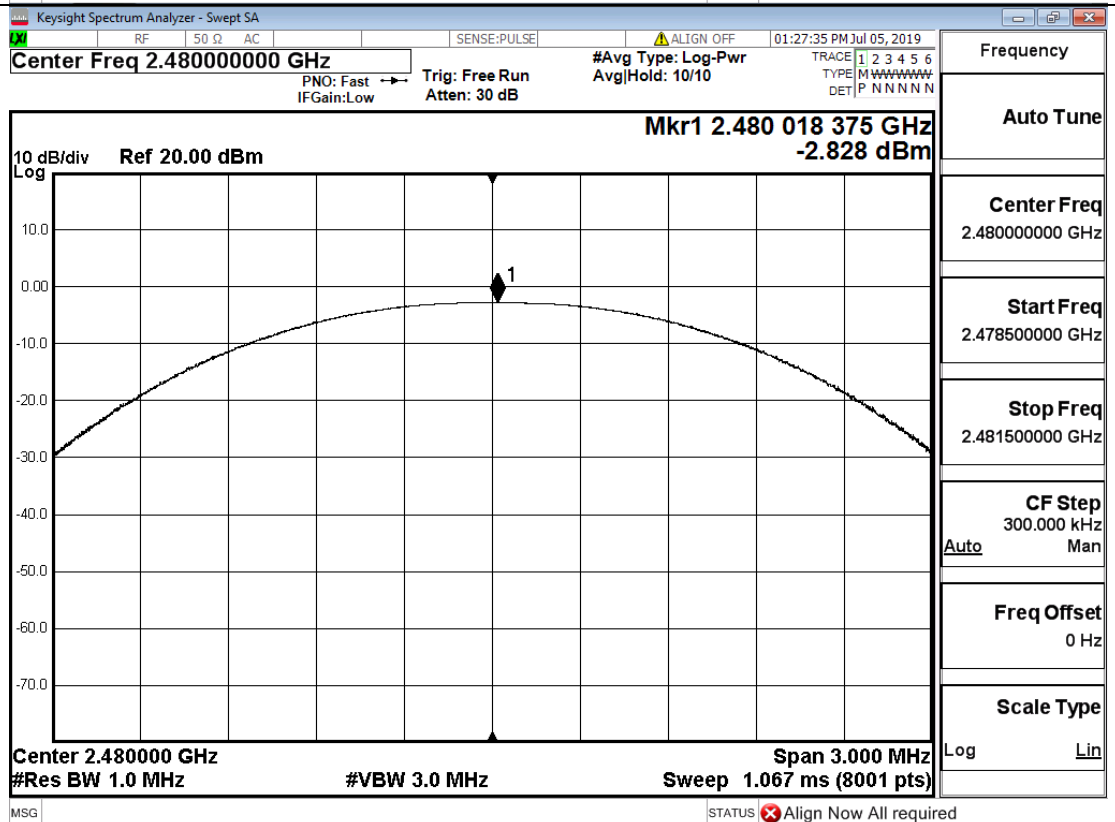
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.025	30	PASS
BT LE	MCH	-1.493	30	PASS
BT LE	HCH	-2.828	30	PASS



MCH



HCH



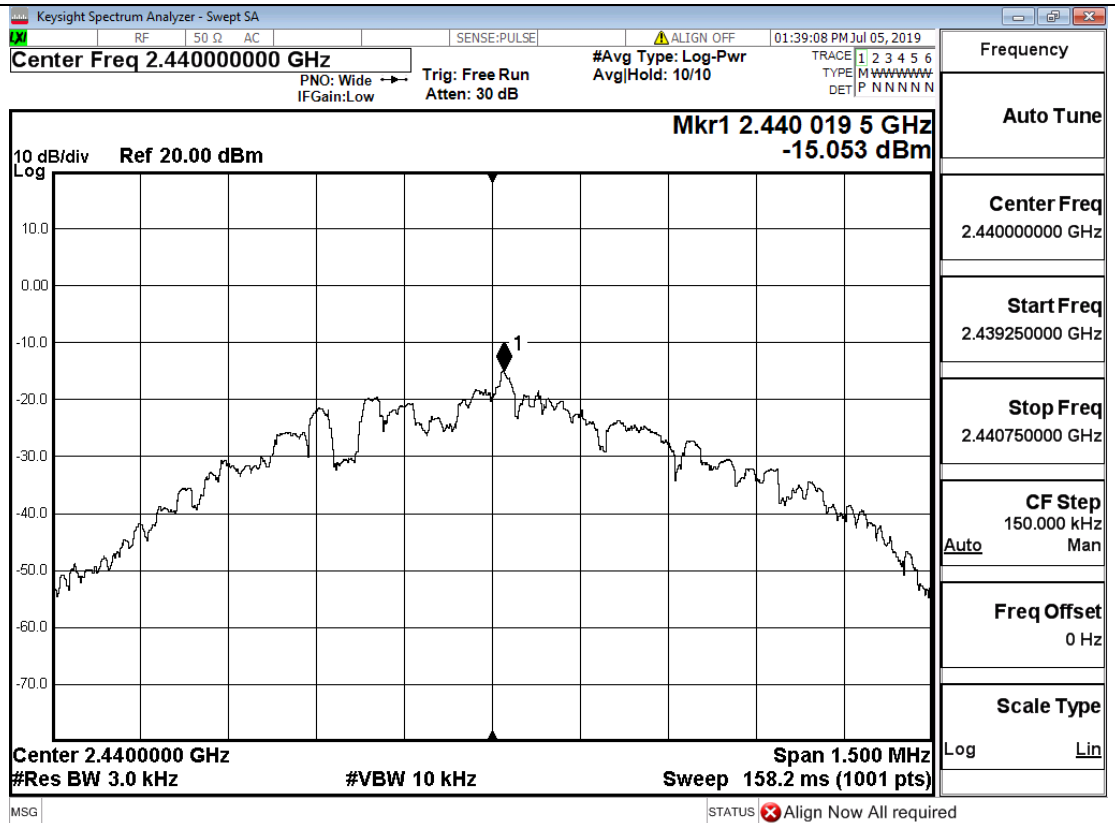
A.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.582	8	PASS
BT LE	MCH	-15.053	8	PASS
BT LE	HCH	-16.521	8	PASS

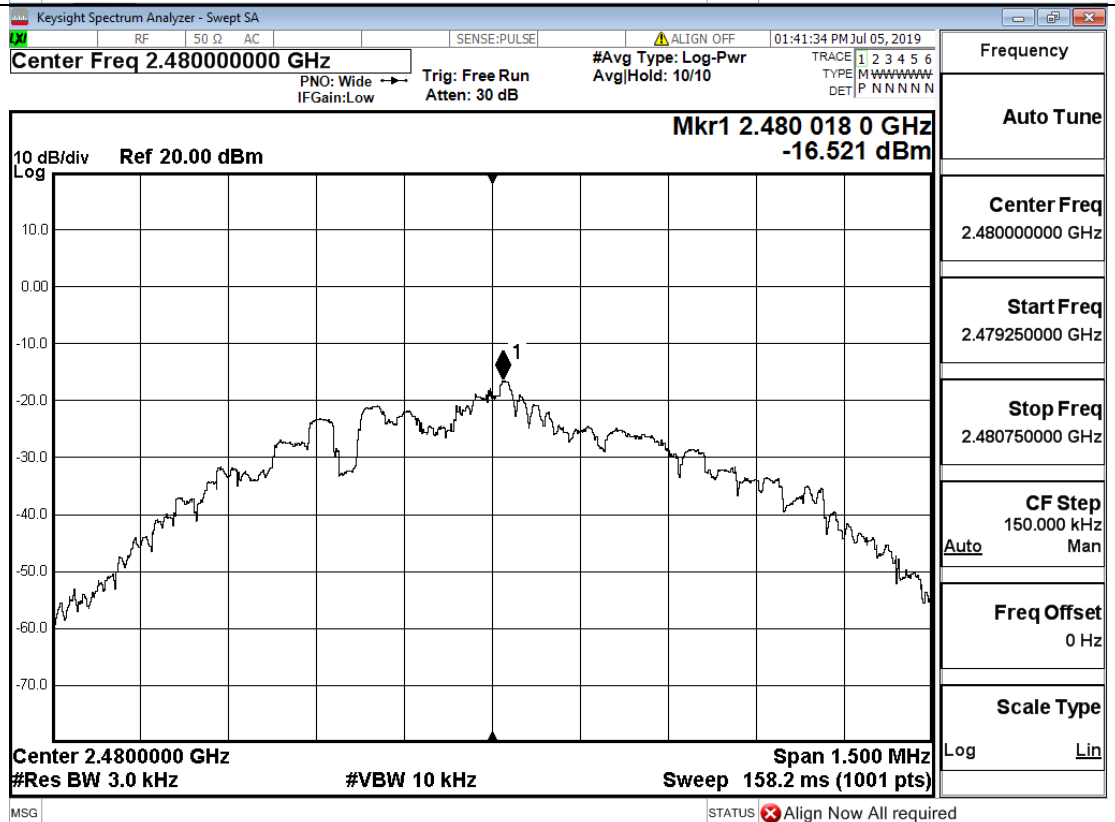
Test Graphs



MCH

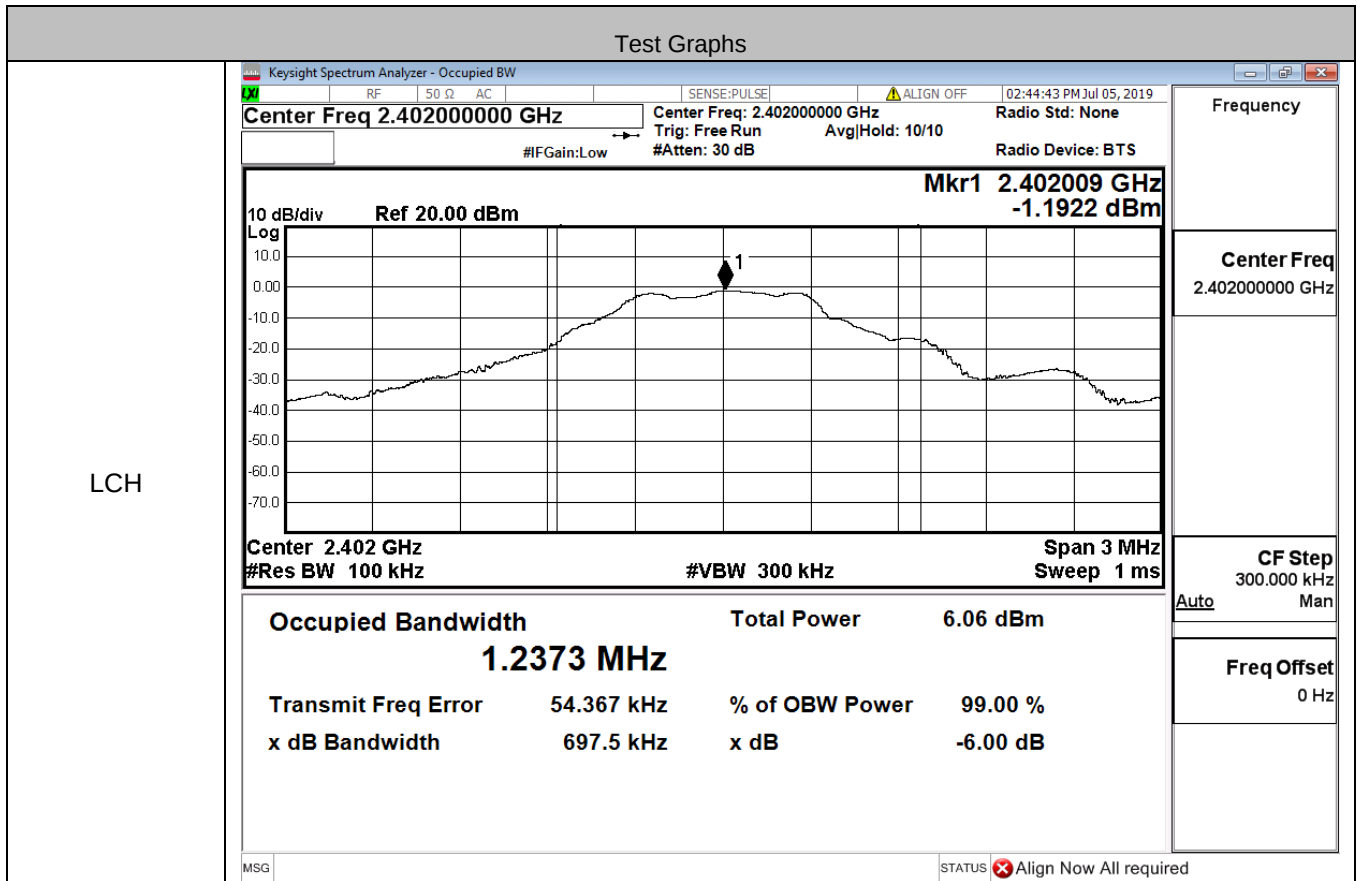


HCH

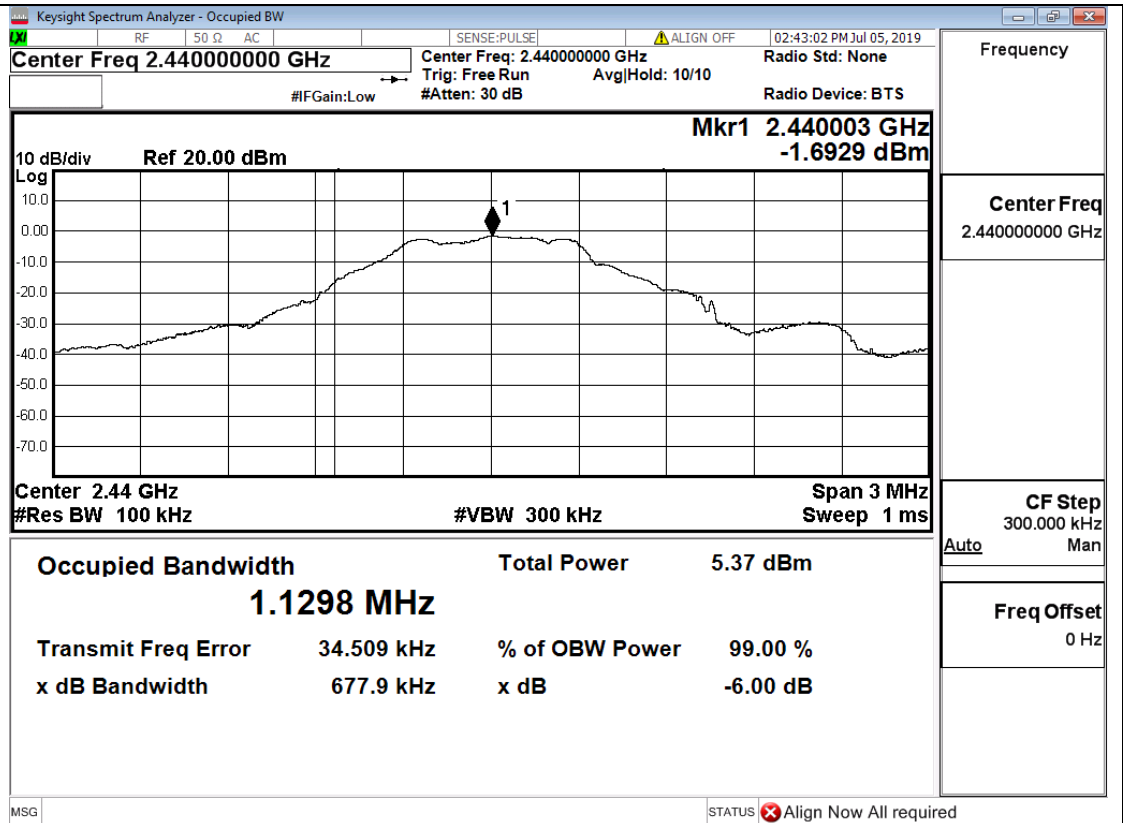


A.4 6dB Bandwidth

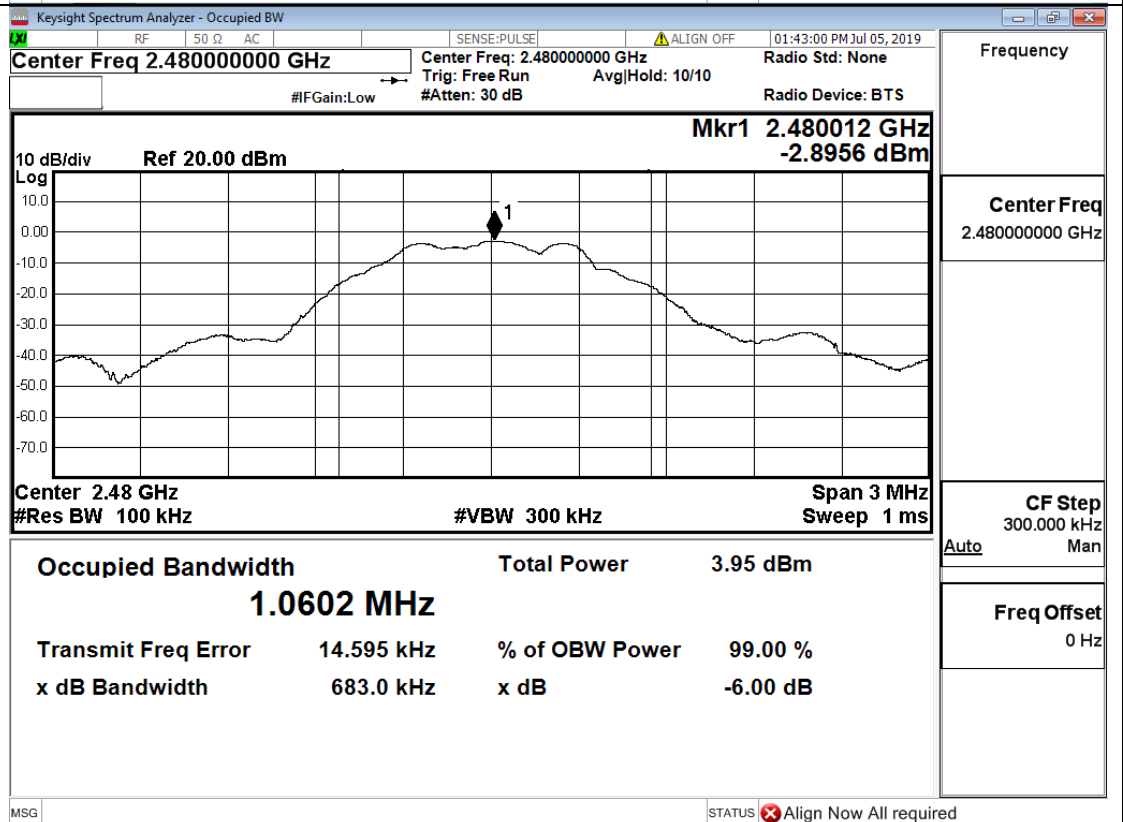
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6975	≥ 0.5	PASS
BT LE	MCH	0.6779	≥ 0.5	PASS
BT LE	HCH	0.6830	≥ 0.5	PASS



MCH

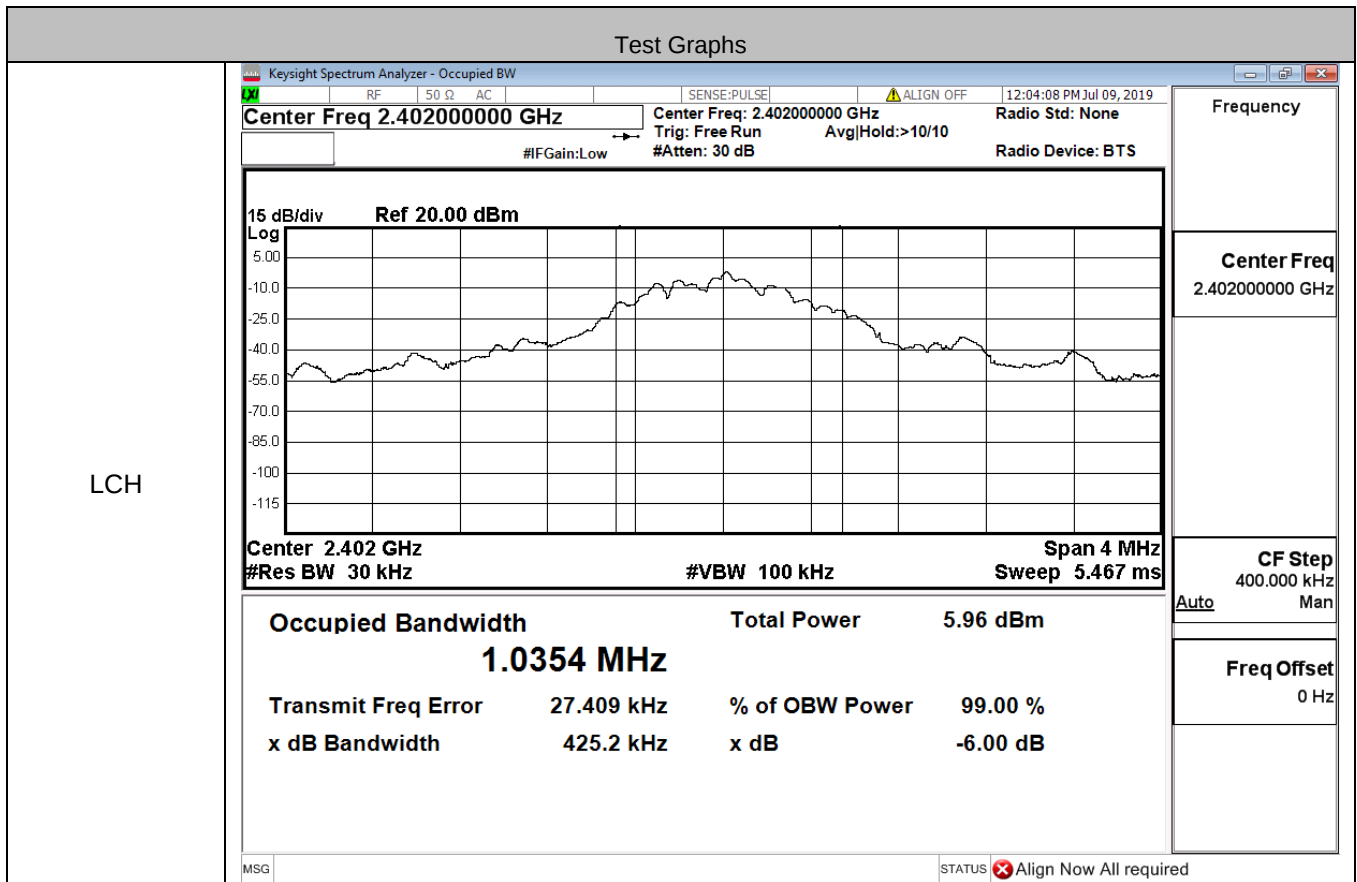


HCH

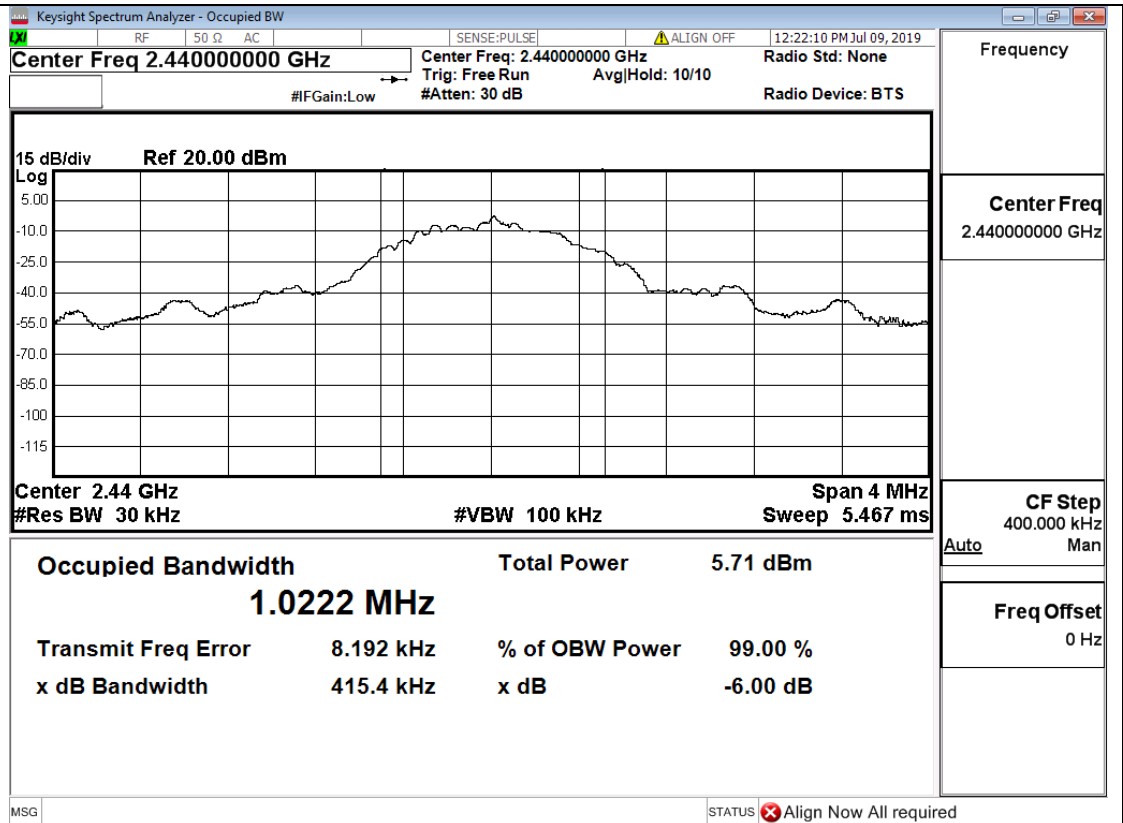


A.5 Occupied Bandwidth

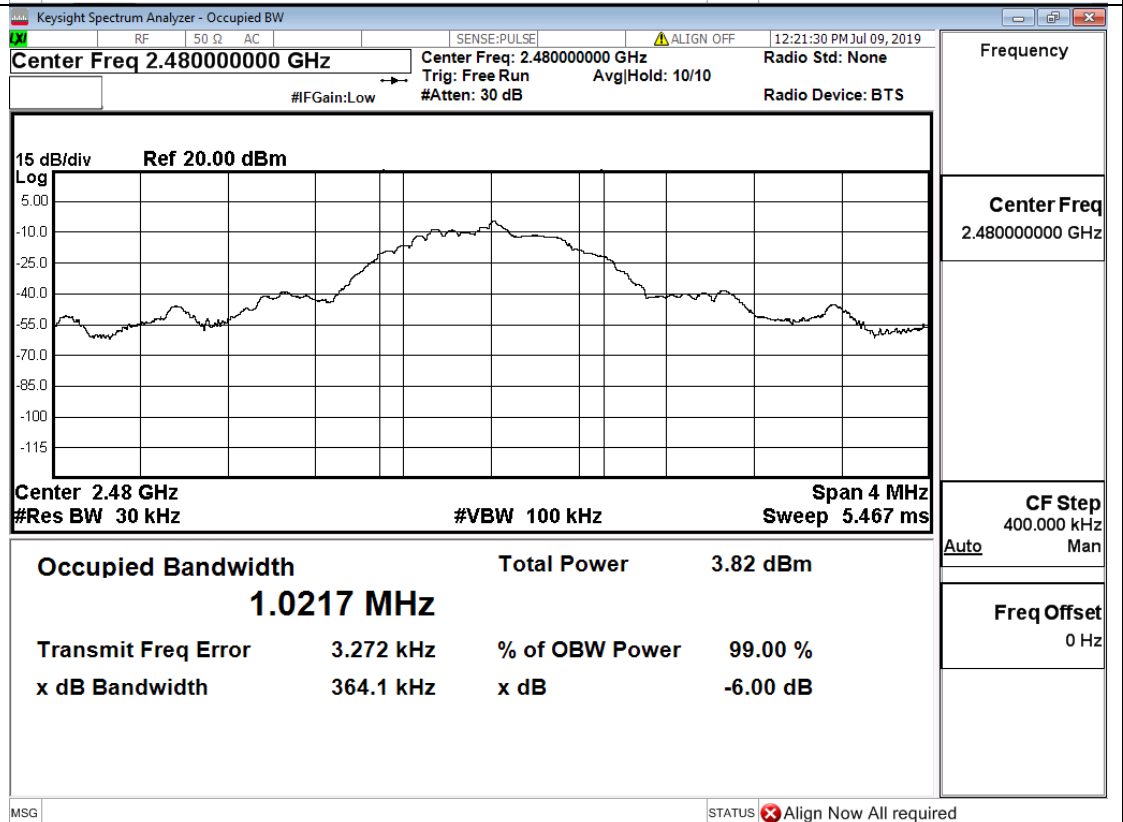
Mode	Channel	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.0354	No Limited	PASS
BT LE	MCH	1.0222	No Limited	PASS
BT LE	HCH	1.0217	No Limited	PASS



MCH



HCH

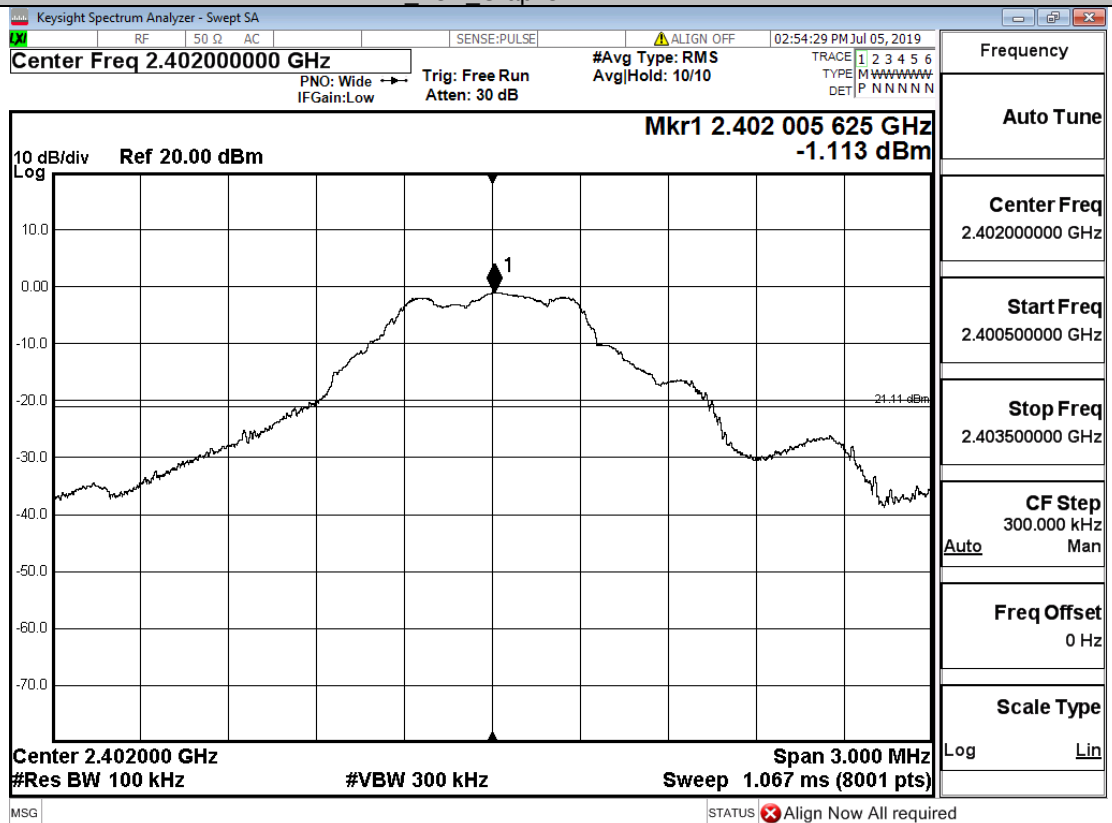


A.6 RF Conducted Spurious Emissions

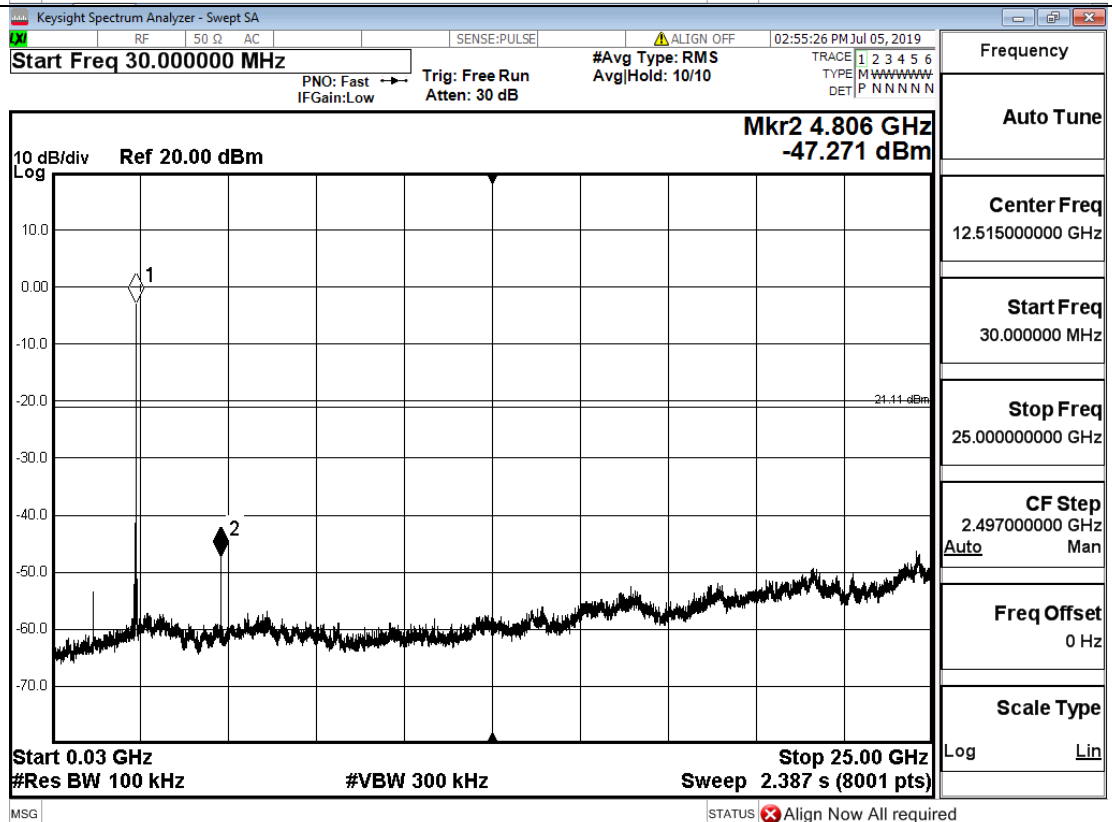
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.113	-47.271	-21.11	PASS
BT LE	MCH	-1.593	-46.056	-21.59	PASS
BT LE	HCH	-2.940	-47.800	-22.94	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

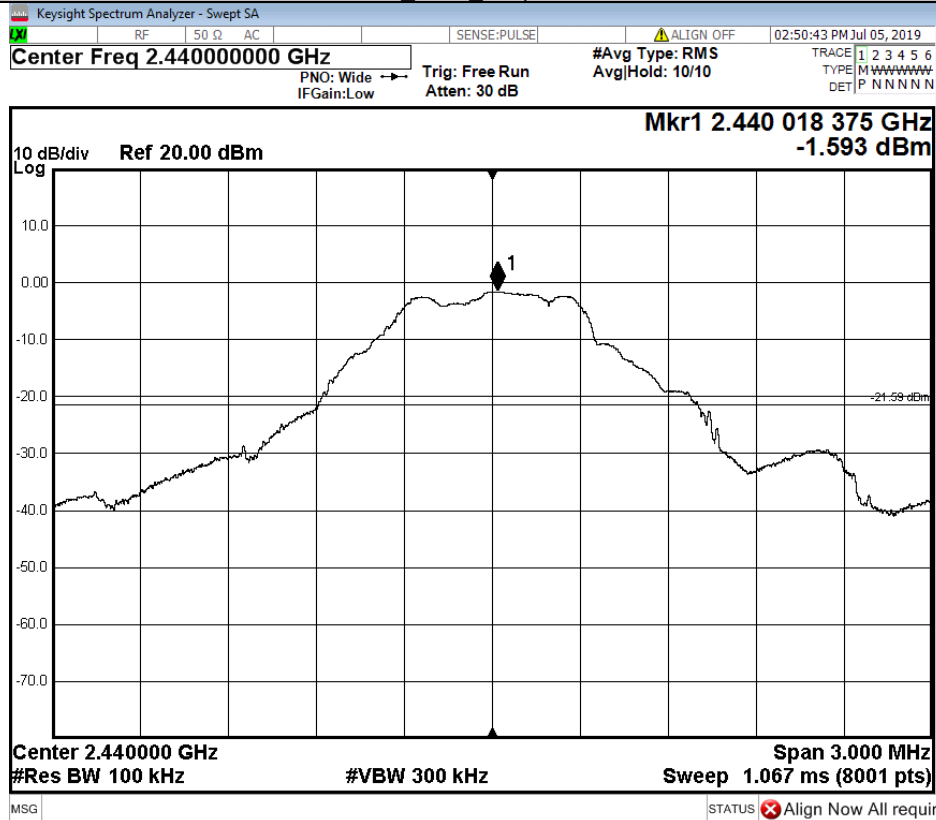


Puw/BT LE/LCH



BT LE MCH Graphs

Pref/BT LE/MCH

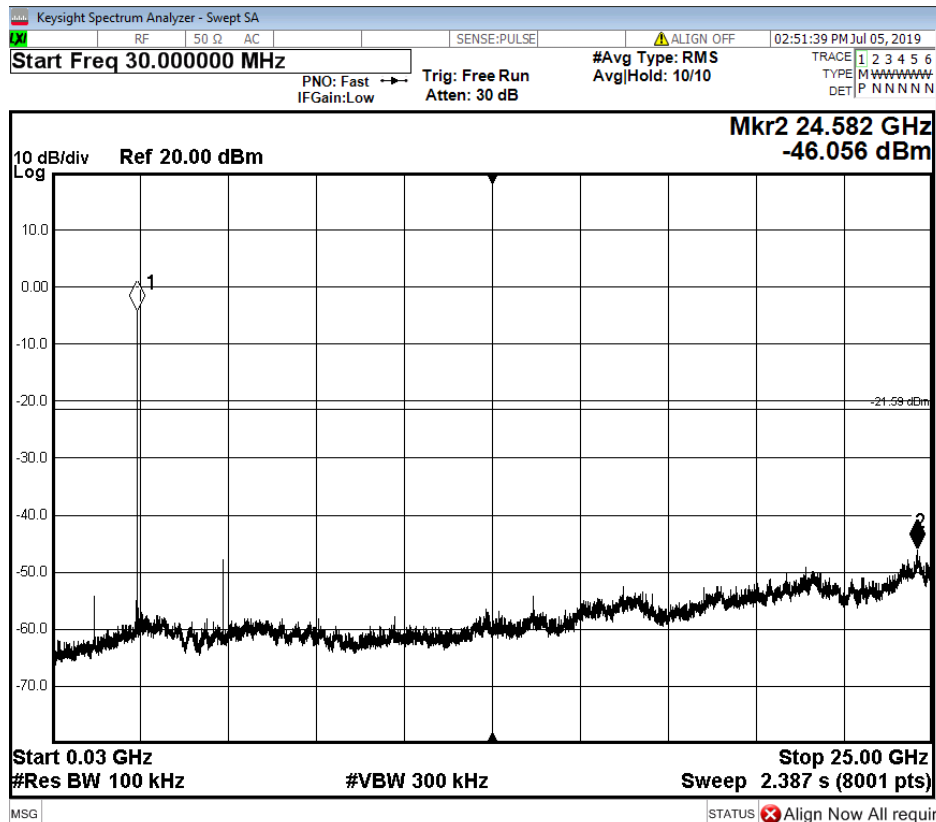


Frequency

Auto Tune

Center Freq
2.440000000 GHzStart Freq
2.438500000 GHzStop Freq
2.441500000 GHzCF Step
300.000 kHz
Auto ManFreq Offset
0 HzScale Type
Log Lin

Puw/BT LE/MCH



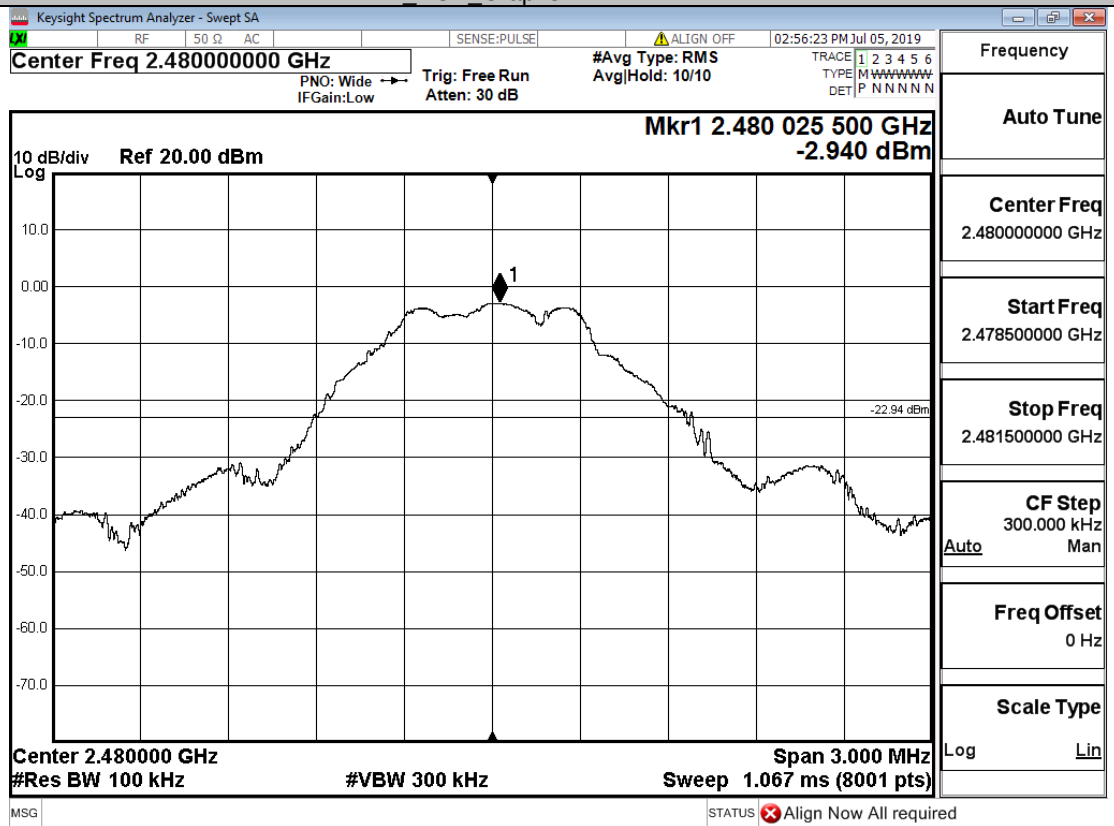
Frequency

Auto Tune

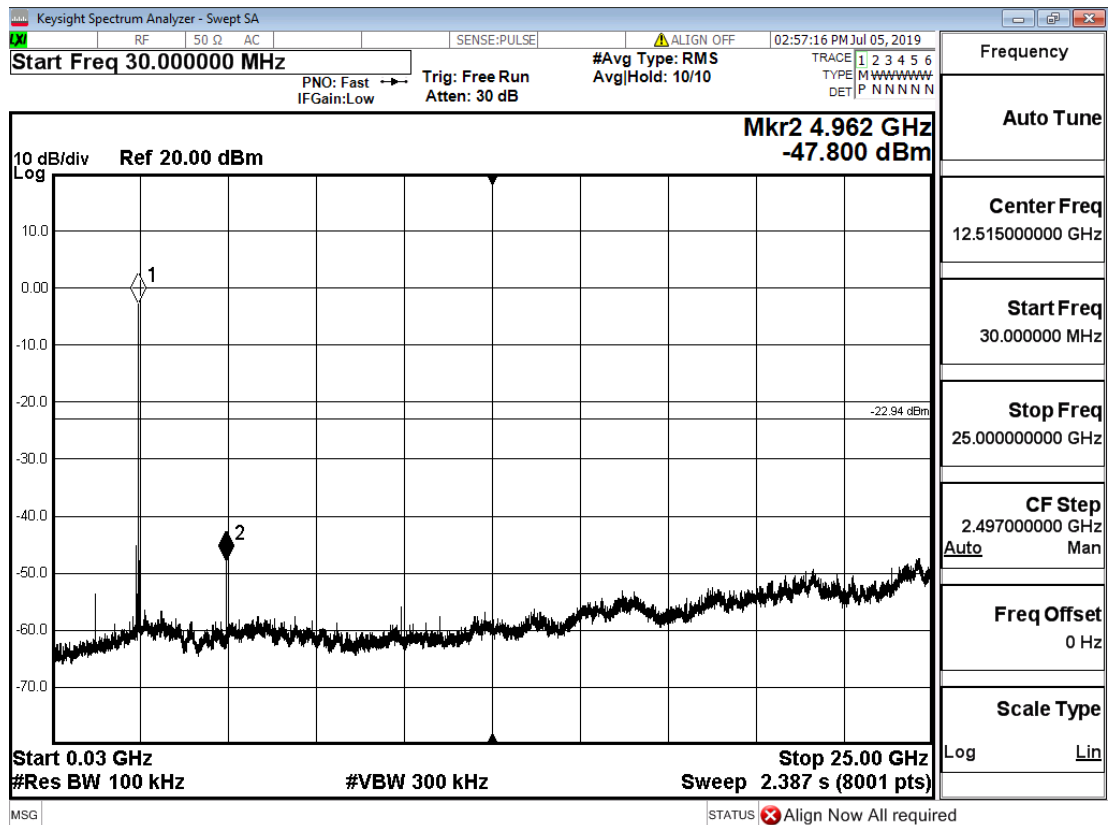
Center Freq
12.515000000 GHzStart Freq
30.000000 MHzStop Freq
25.000000000 GHzCF Step
2.497000000 GHz
Auto ManFreq Offset
0 HzScale Type
Log Lin

BT LE HCH Graphs

Pref/BT LE/HCH



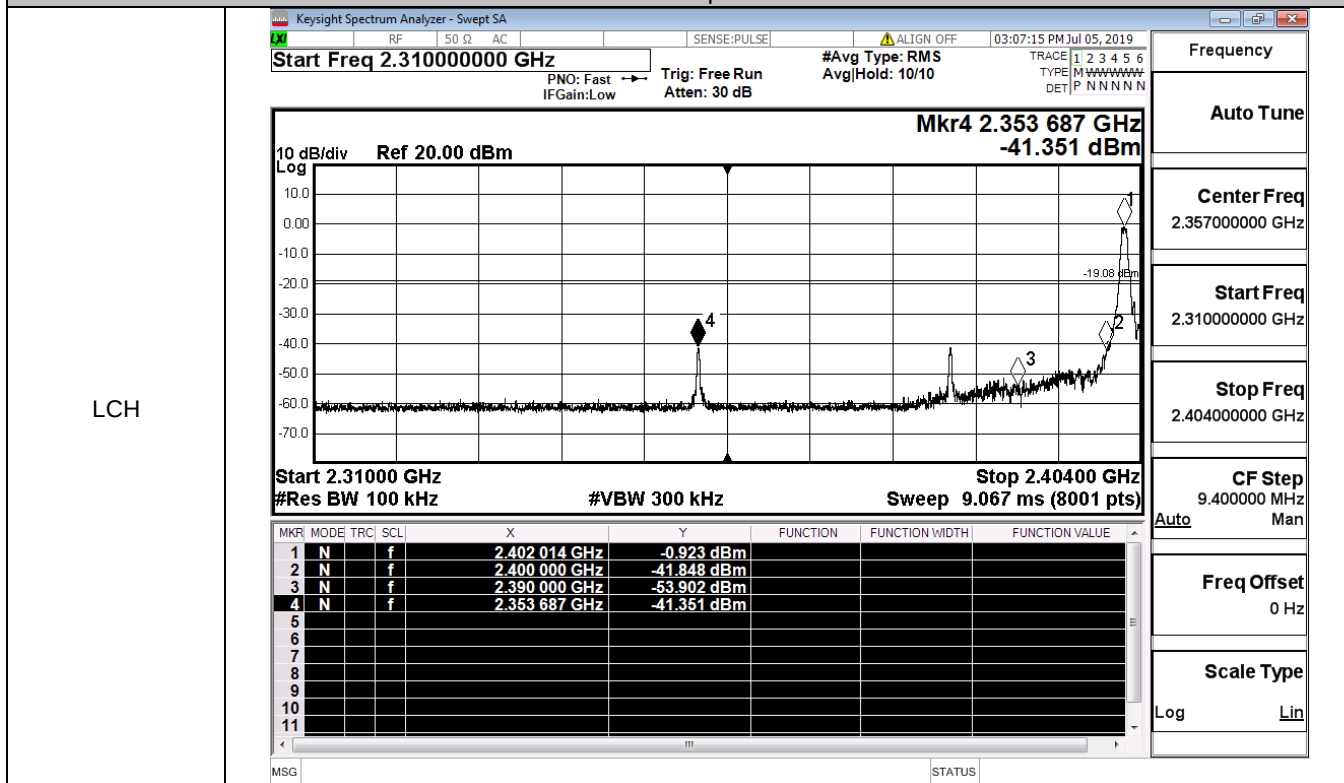
Puw/BT LE/HCH



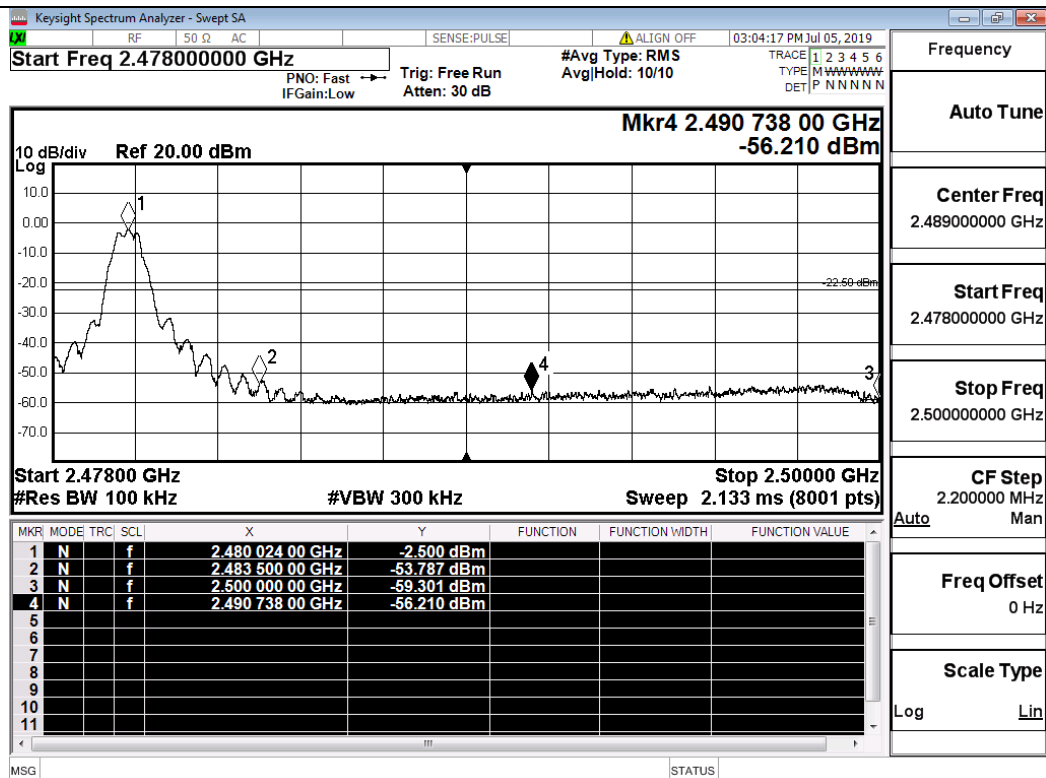
A.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.923	-41.351	-20.92	PASS
BT LE	HCH	-2.500	-53.787	-22.50	PASS

Test Graphs



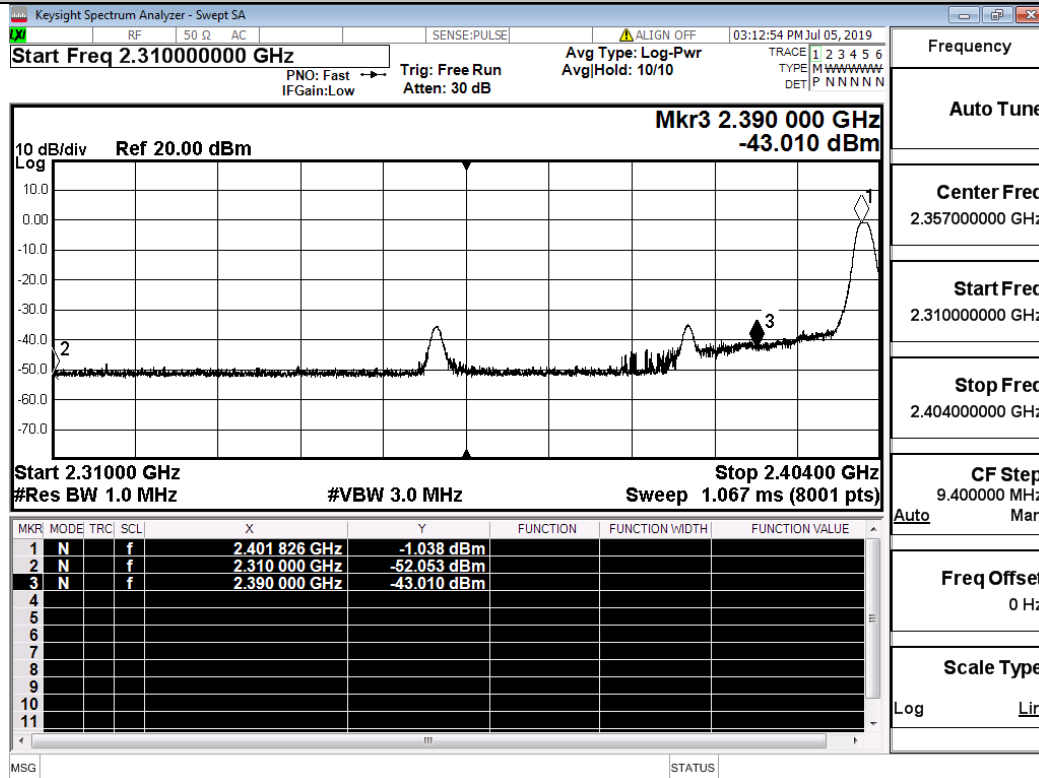
HCH



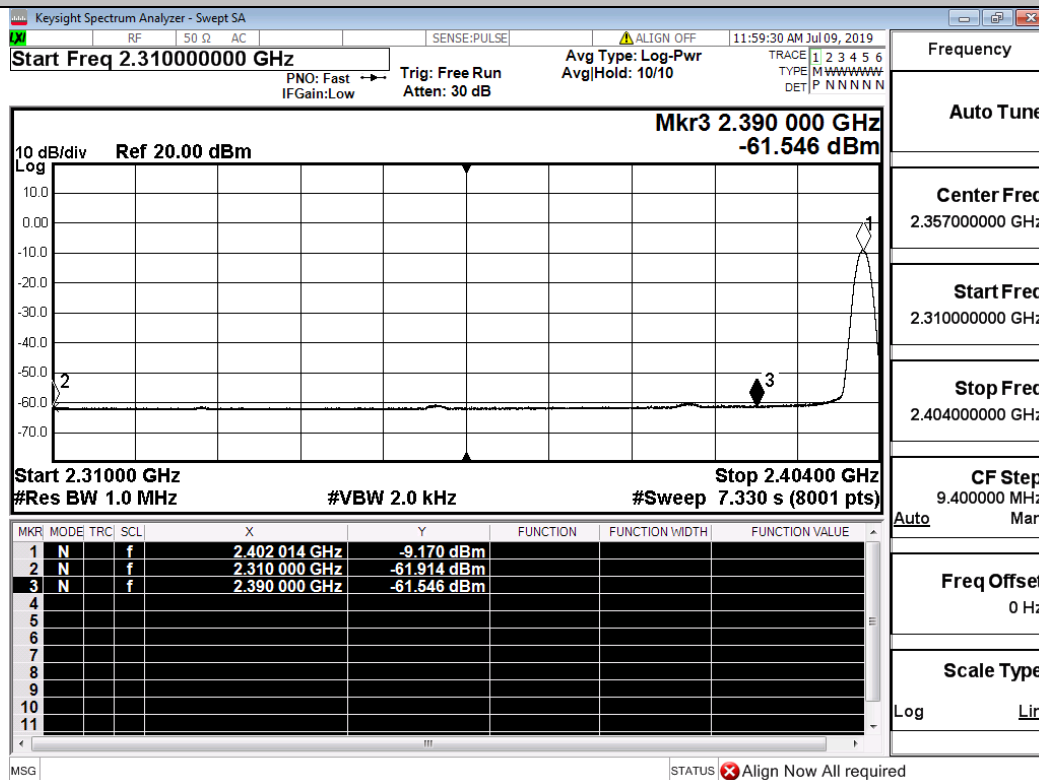
A.8 Restrict-band band-edge measurements

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	-52.053	2.0	0	45.18	PEAK	74	PASS
		Ant1	2310.0	-61.914	2.0	0	35.32	AV	54	PASS
		Ant1	2390.0	-43.010	2.0	0	54.22	PEAK	74	PASS
		Ant1	2390.0	-61.546	2.0	0	35.68	AV	54	PASS
	2480	Ant1	2483.5	-41.410	2.0	0	55.82	PEAK	74	PASS
		Ant1	2483.5	-60.464	2.0	0	36.77	AV	54	PASS
		Ant1	2500.0	-50.683	2.0	0	46.55	PEAK	74	PASS
		Ant1	2500.0	-61.469	2.0	0	35.76	AV	54	PASS

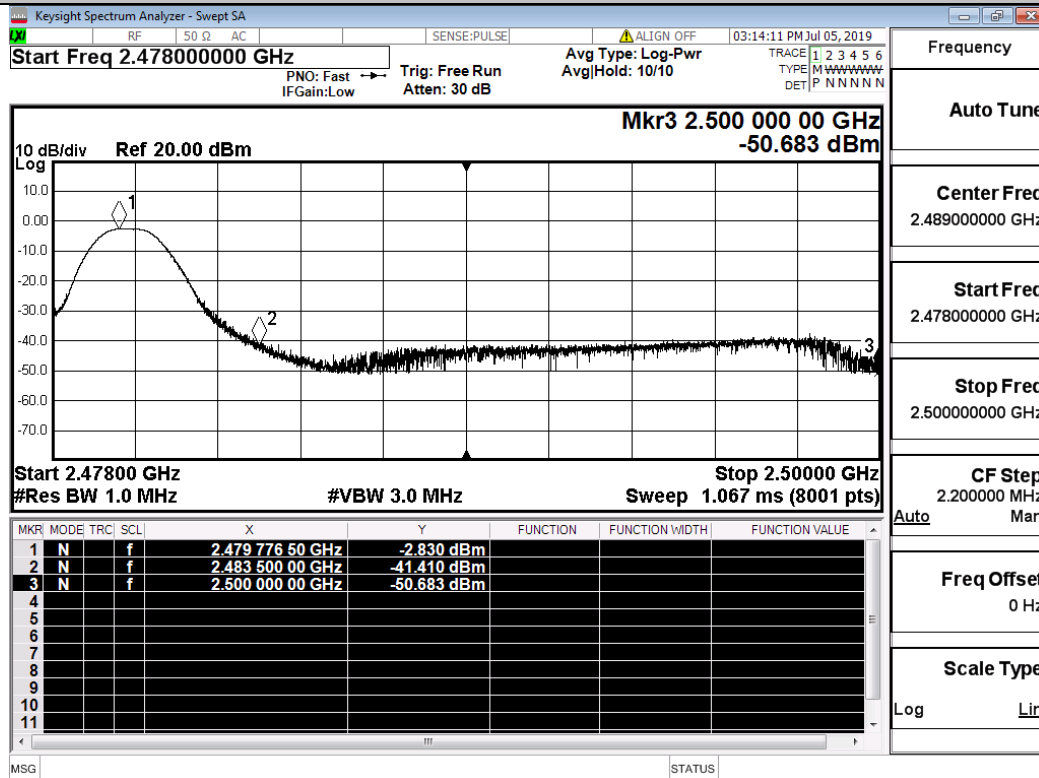
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

