

Appendix B

RF Test Data for BT 4.1(BLE) (Conducted Measurement)

Product Name: W97L

Trade Mark: ZAPO

Test Model: W97L-5DB

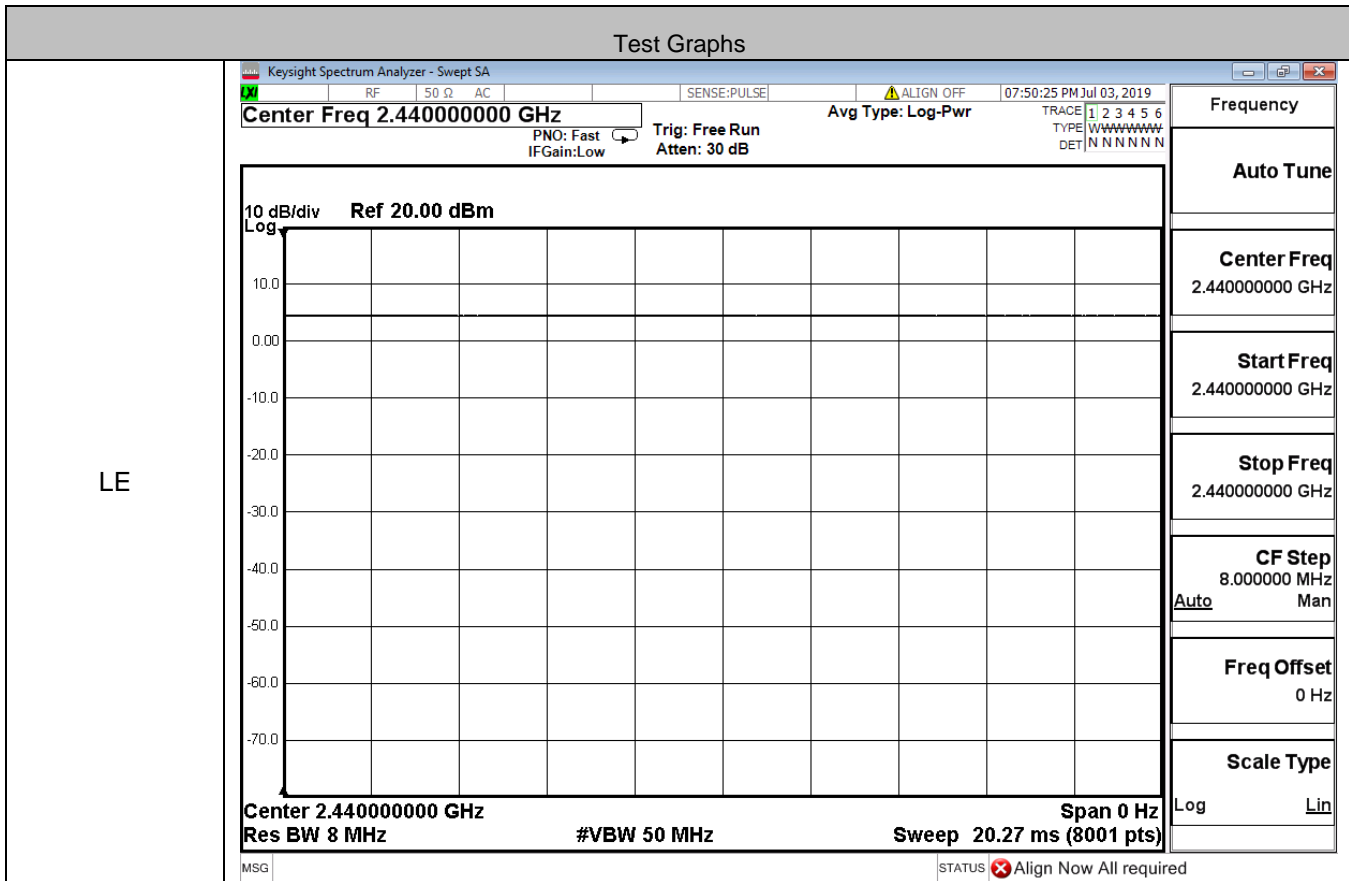
Environmental Conditions

Temperature:	23.3 ° C
Relative Humidity:	61%
ATM Pressure:	100.0 kPa
Test Engineer:	CHUANG WANG
Supervised by:	JAYDEN ZHUO

B.1 Duty Cycle

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

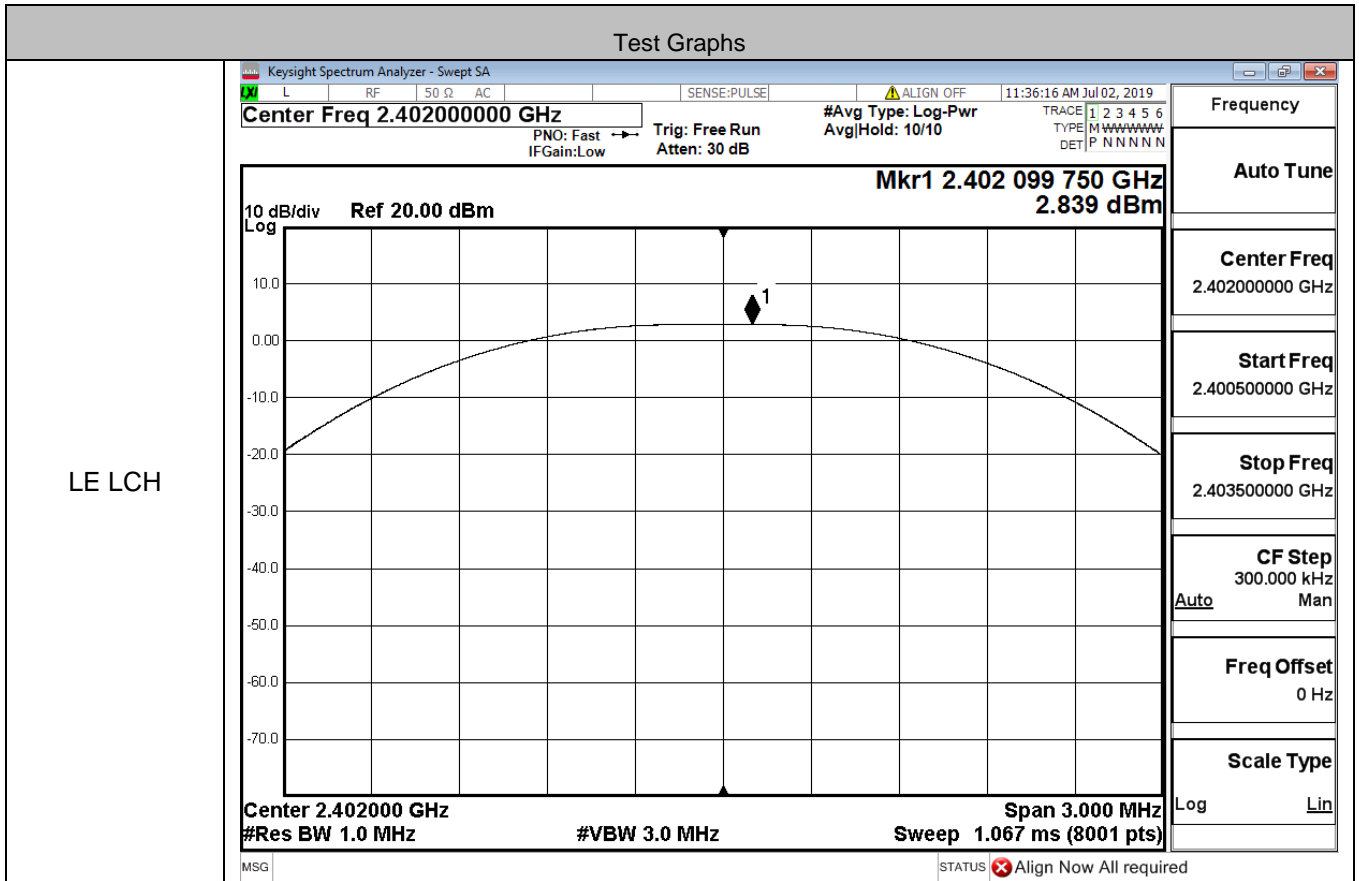
Test Graphs



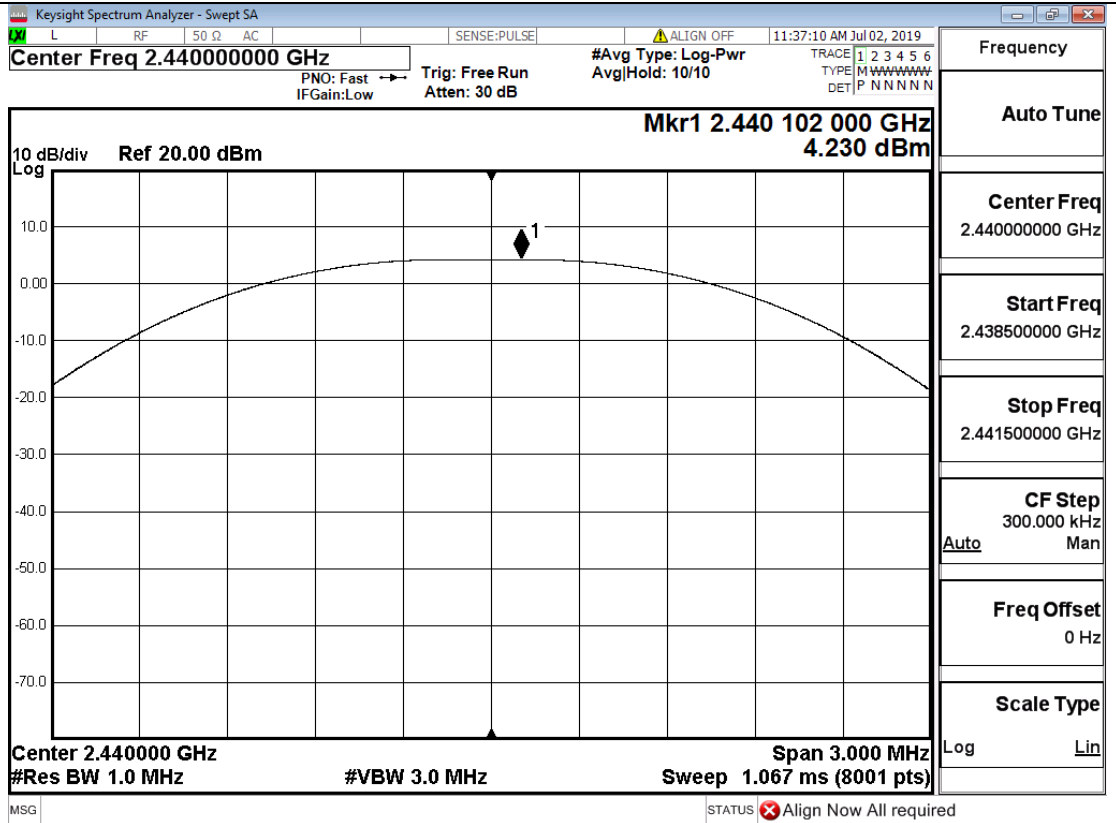
LE

B.2 Maximum Conducted Peak Output Power

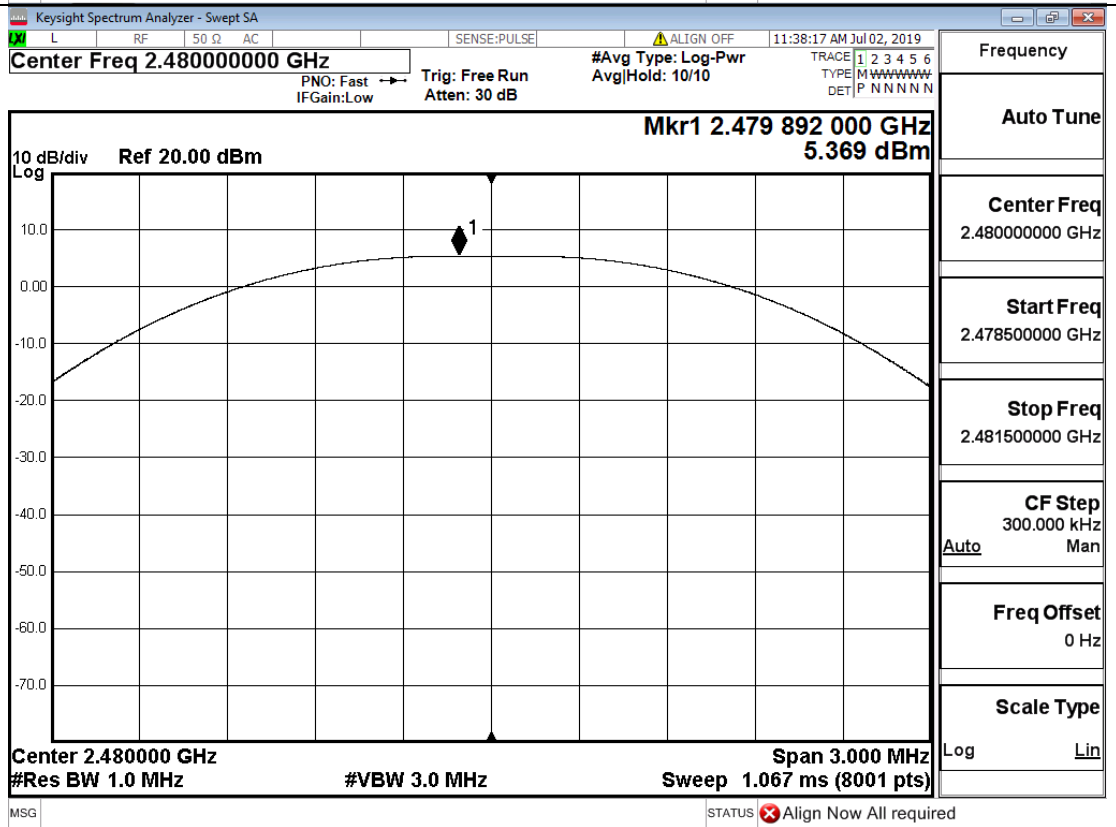
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
LE	LCH	2.839	30	PASS
LE	MCH	4.230	30	PASS
LE	HCH	5.369	30	PASS



LE MCH

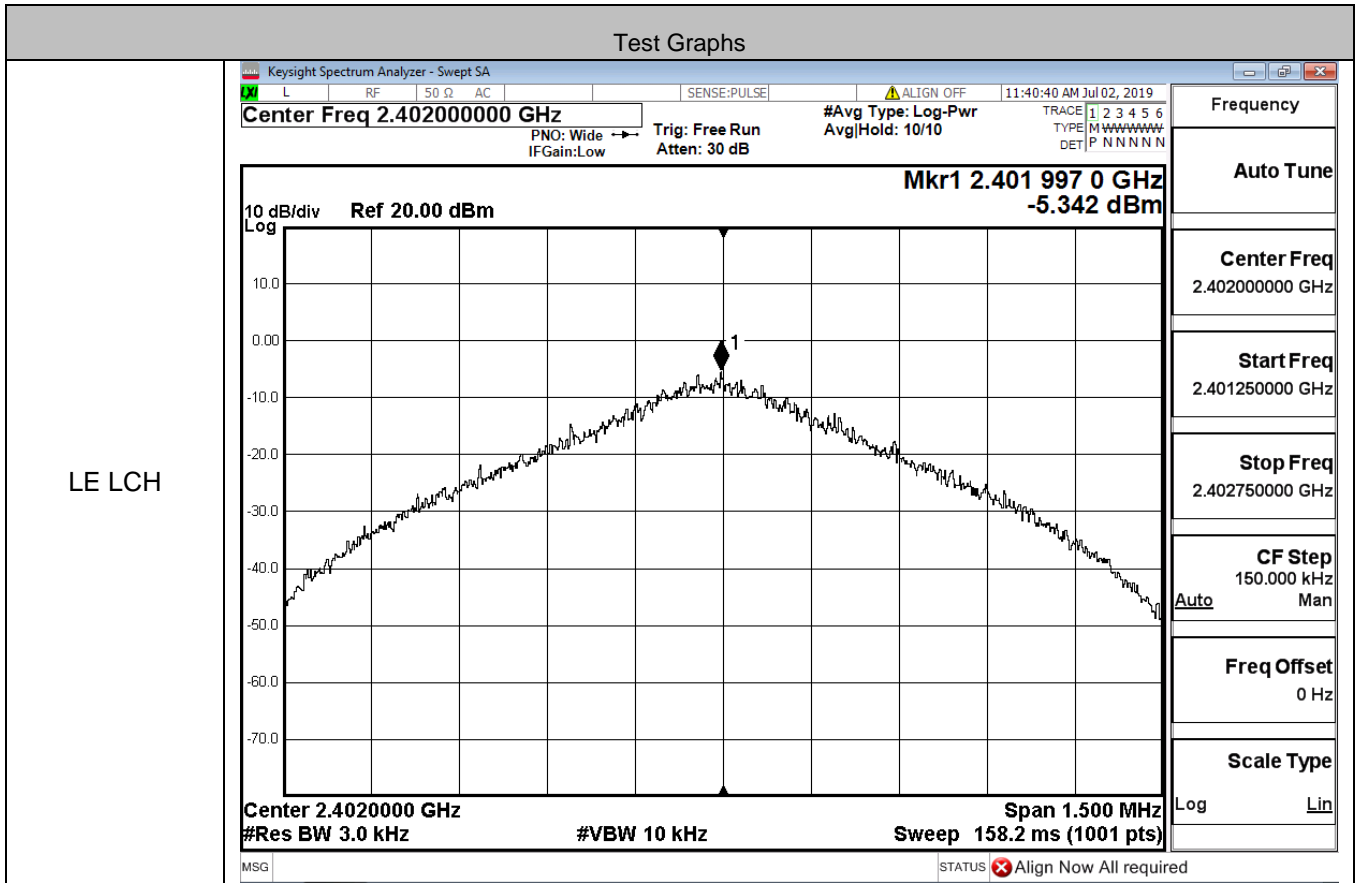


LE HCH

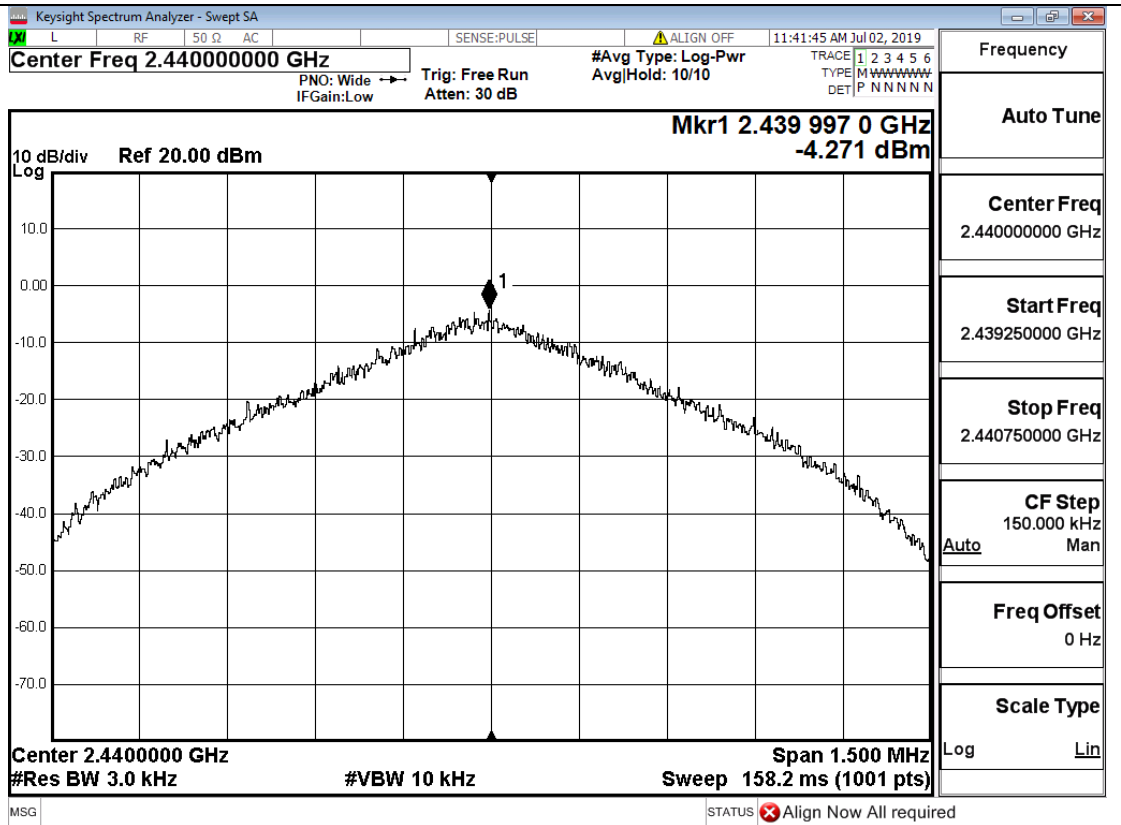


B.3 Maximum Power Spectral Density

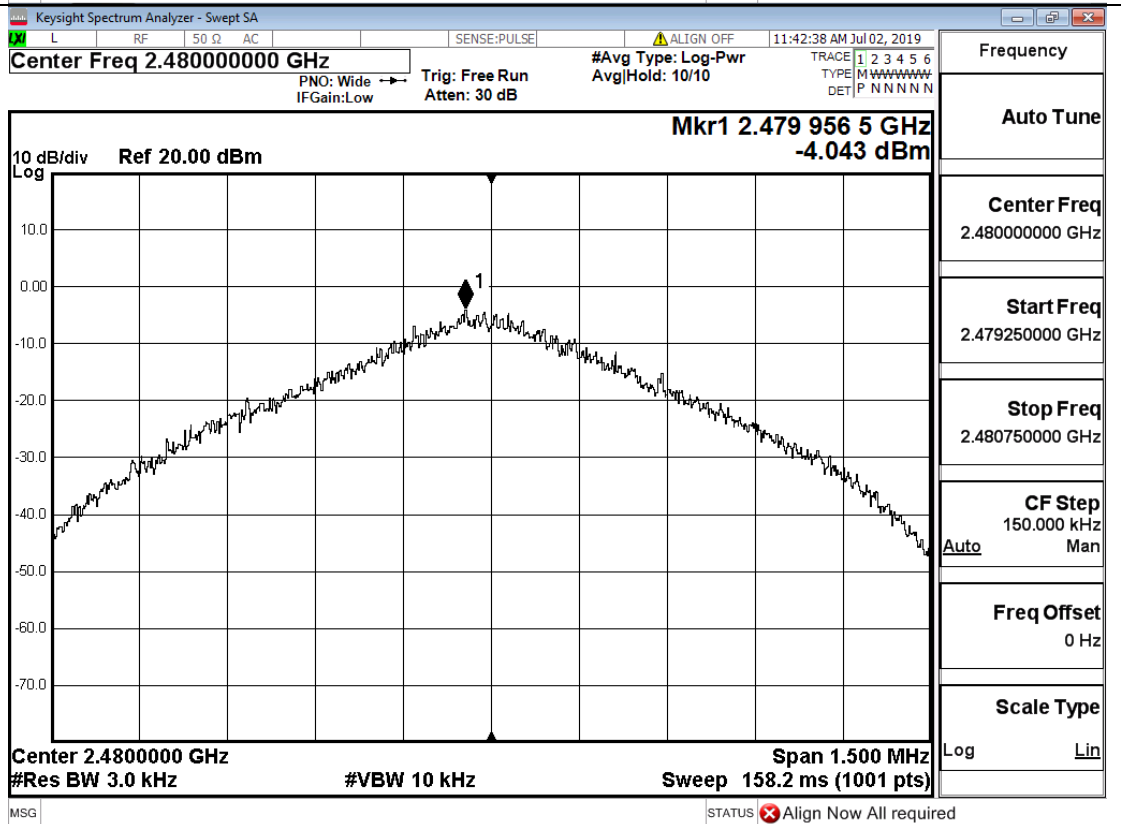
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
LE	LCH	-5.342	8	PASS
LE	MCH	-4.271	8	PASS
LE	HCH	-4.043	8	PASS



LE MCH

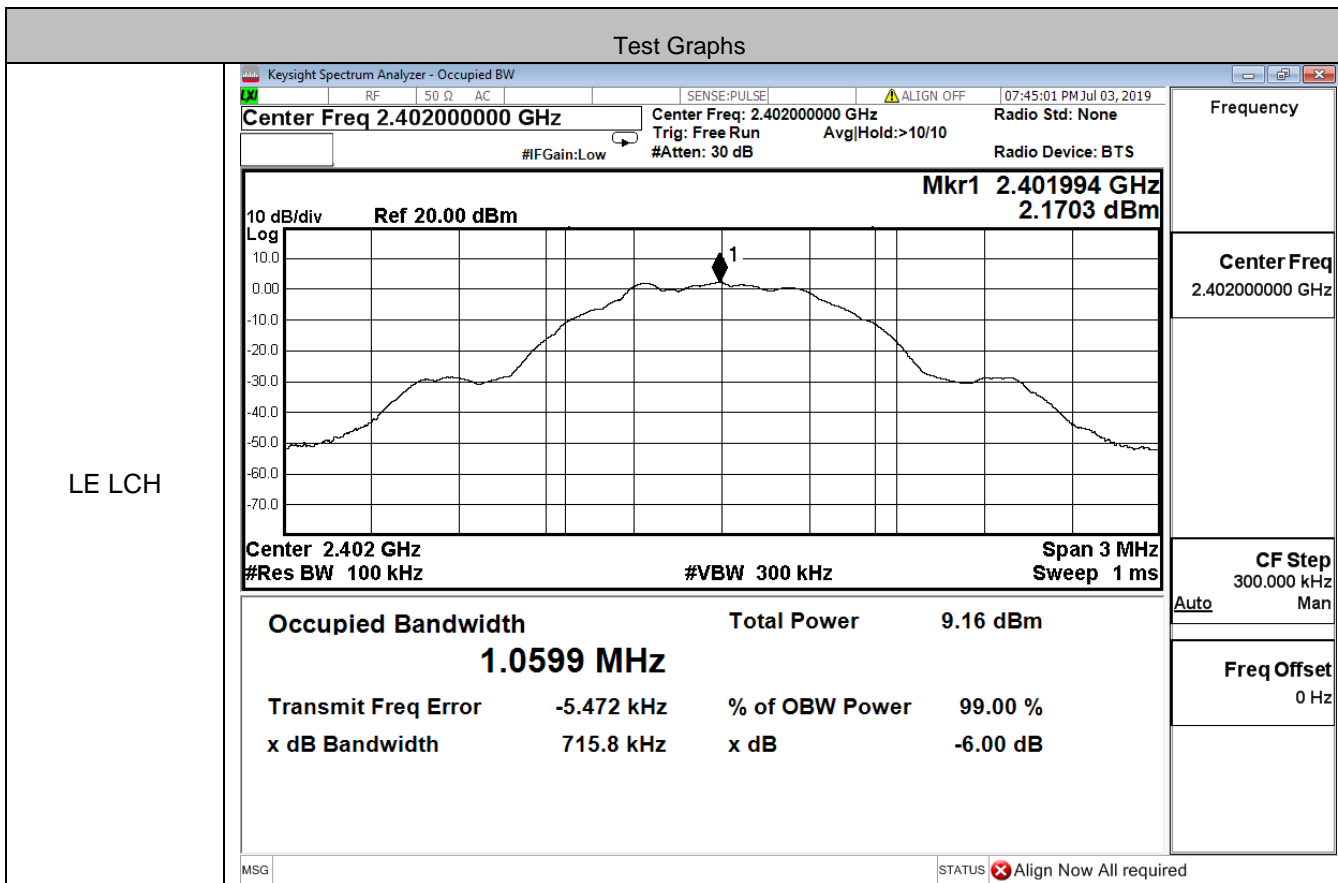


LE HCH

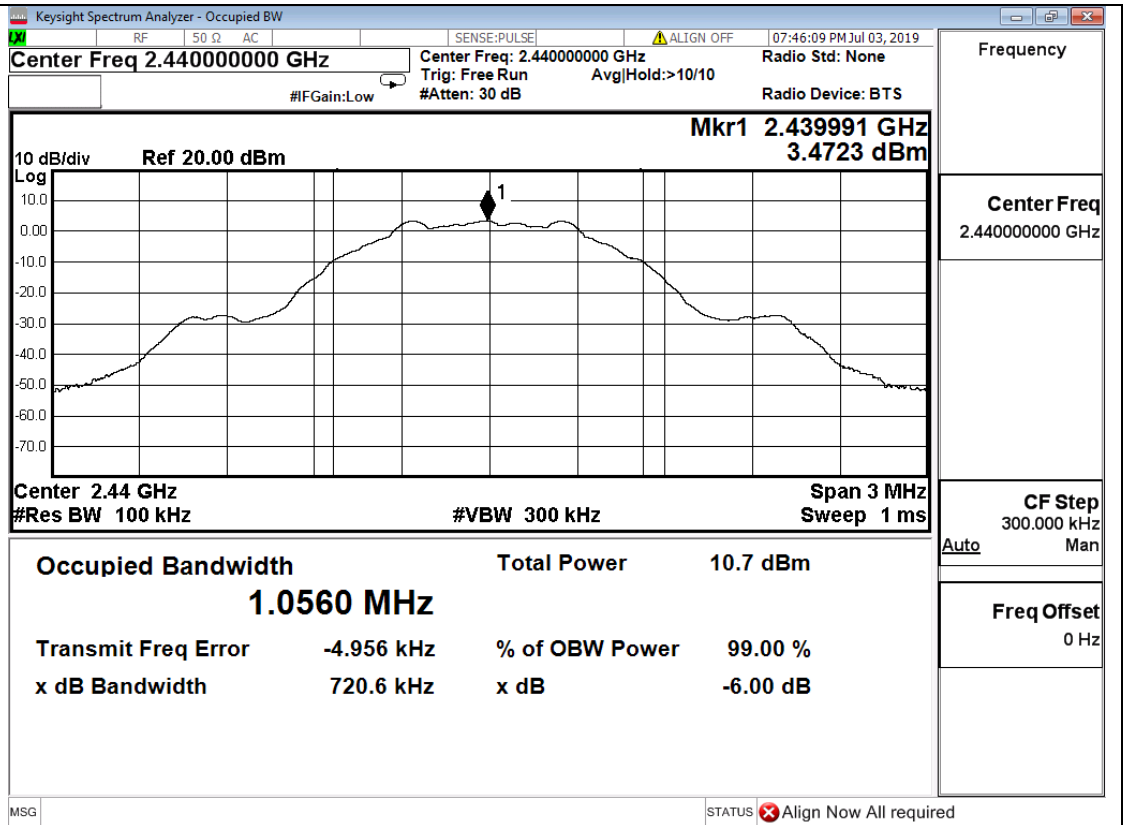


B.4 6dB Bandwidth

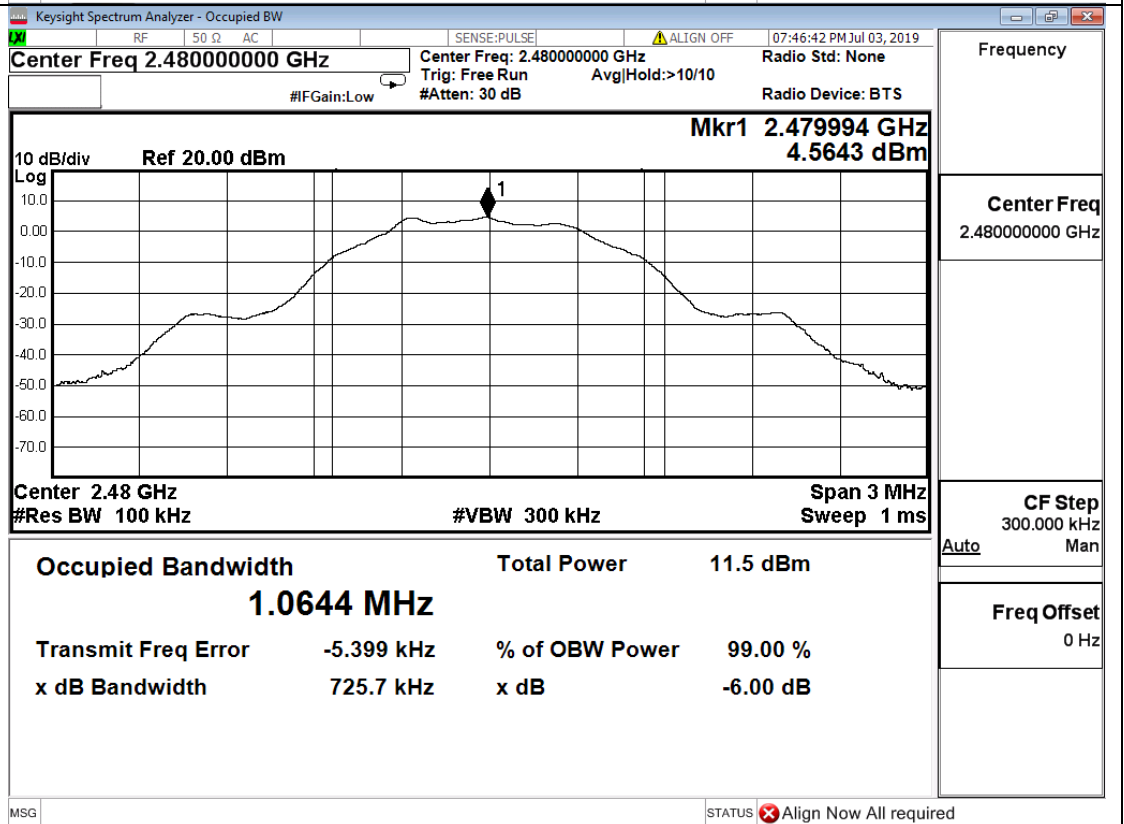
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
LE	LCH	0.7158	≥0.5	PASS
LE	MCH	0.7206	≥0.5	PASS
LE	HCH	0.7257	≥0.5	PASS



LE MCH



LE HCH

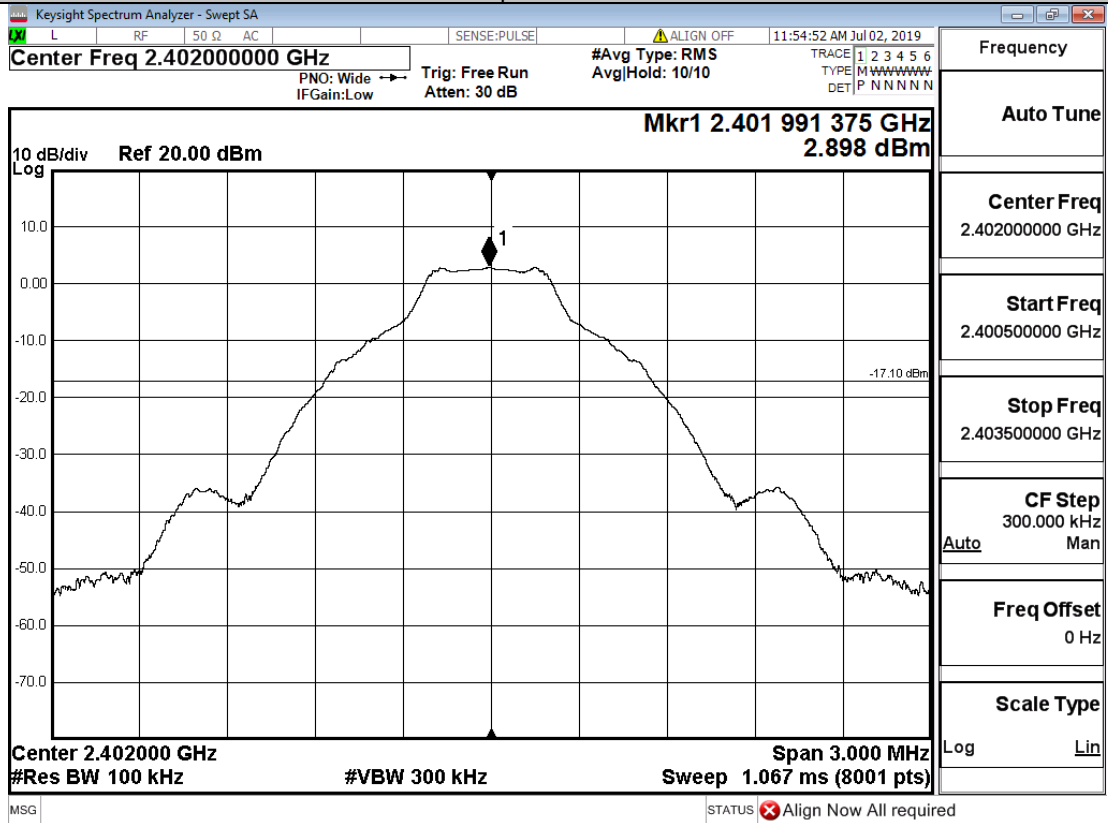


B.5 RF Conducted Spurious Emissions

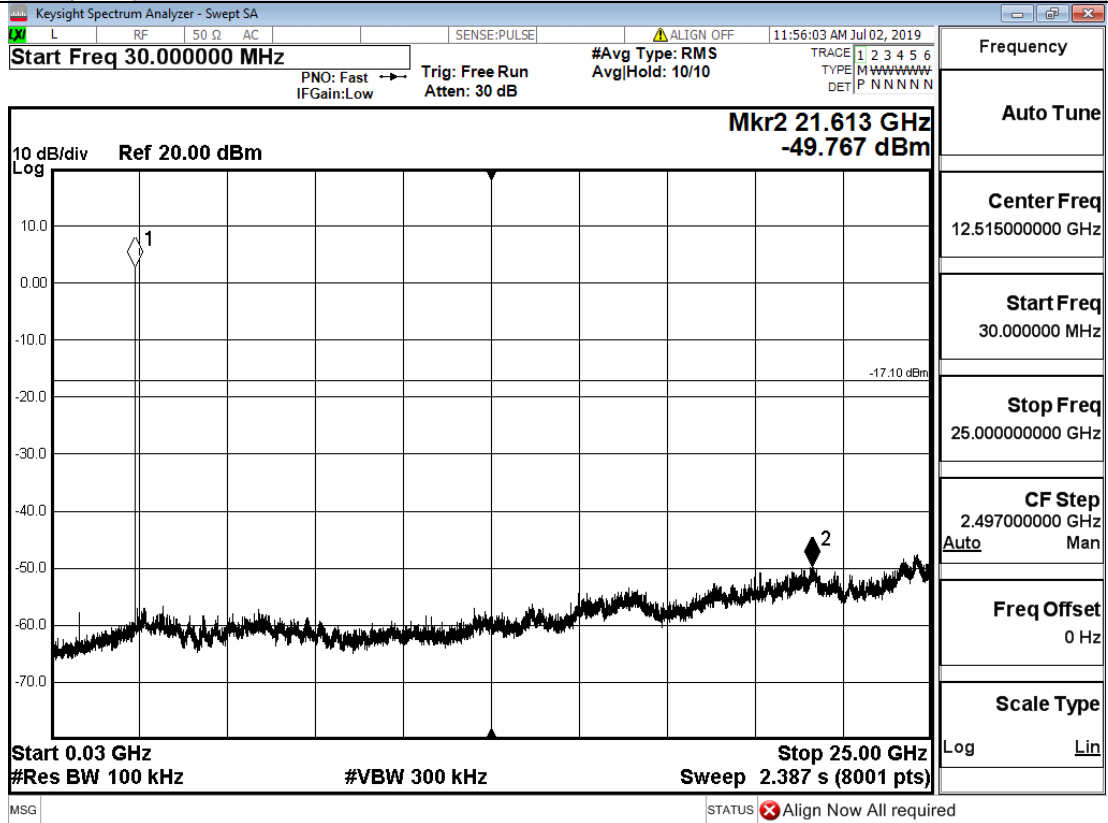
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
LE	LCH	2.898	-49.767	-17.10	PASS
LE	MCH	4.367	-49.401	-15.63	PASS
LE	HCH	5.436	-46.370	-14.56	PASS

LE_LCH_Graphs

Pref/ LE/LCH

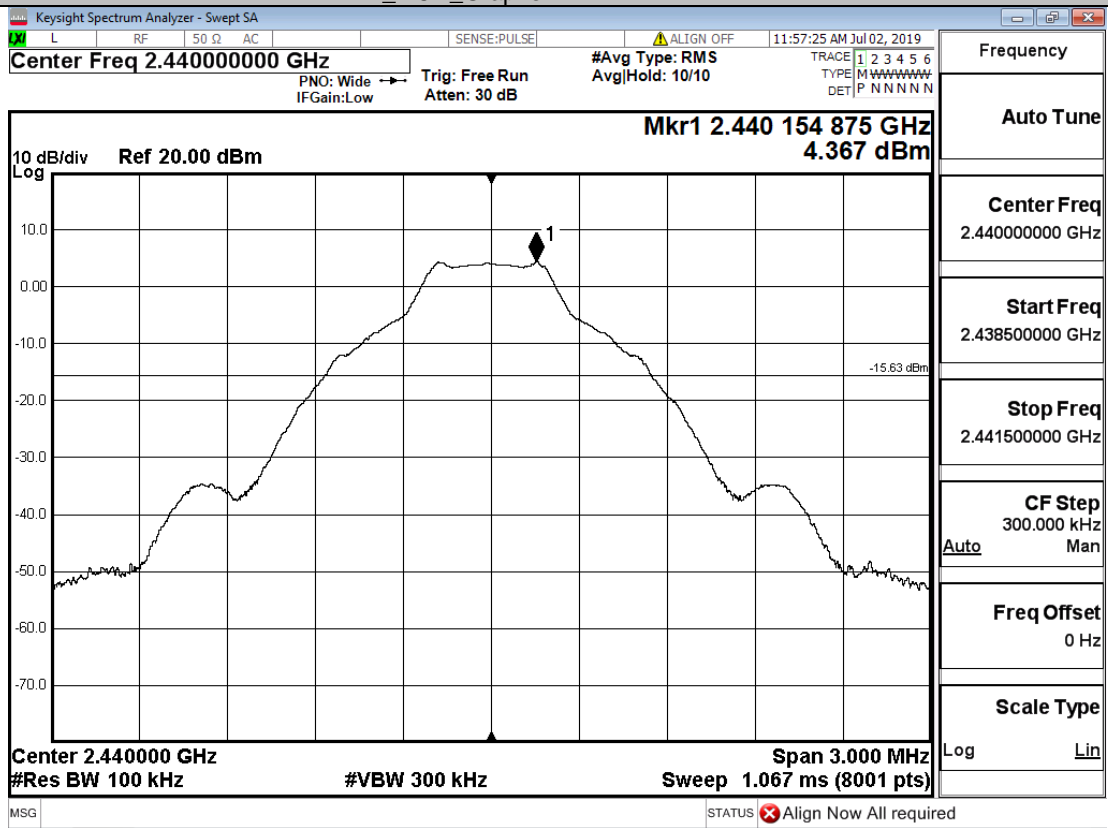


Puw/ LE/LCH

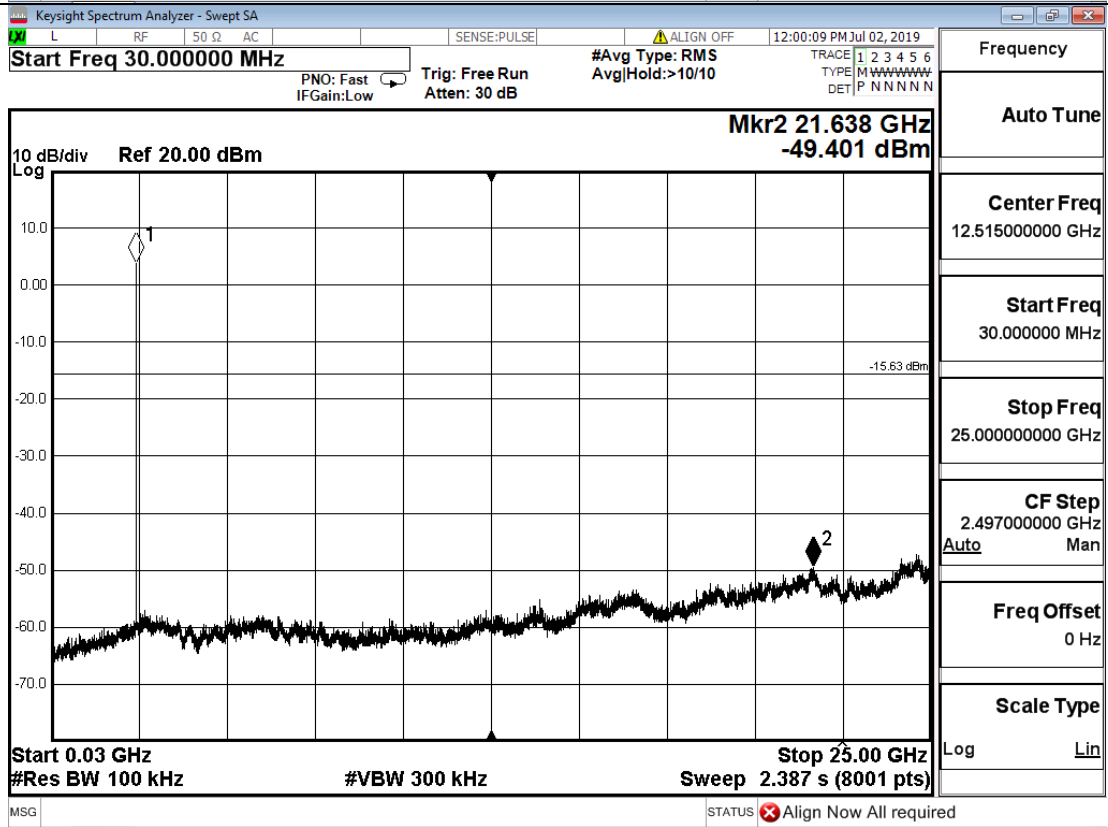


LE_MCH_Graphs

Pref/ LE/MCH

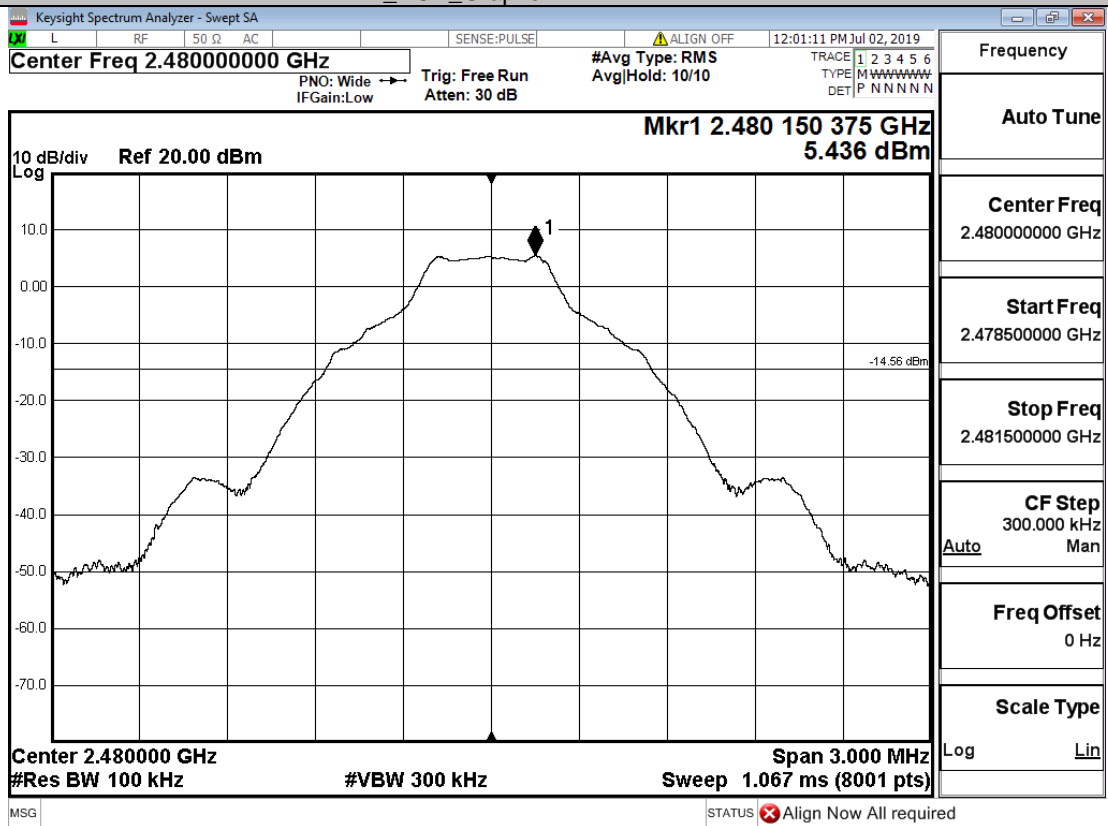


Puw/ LE/MCH

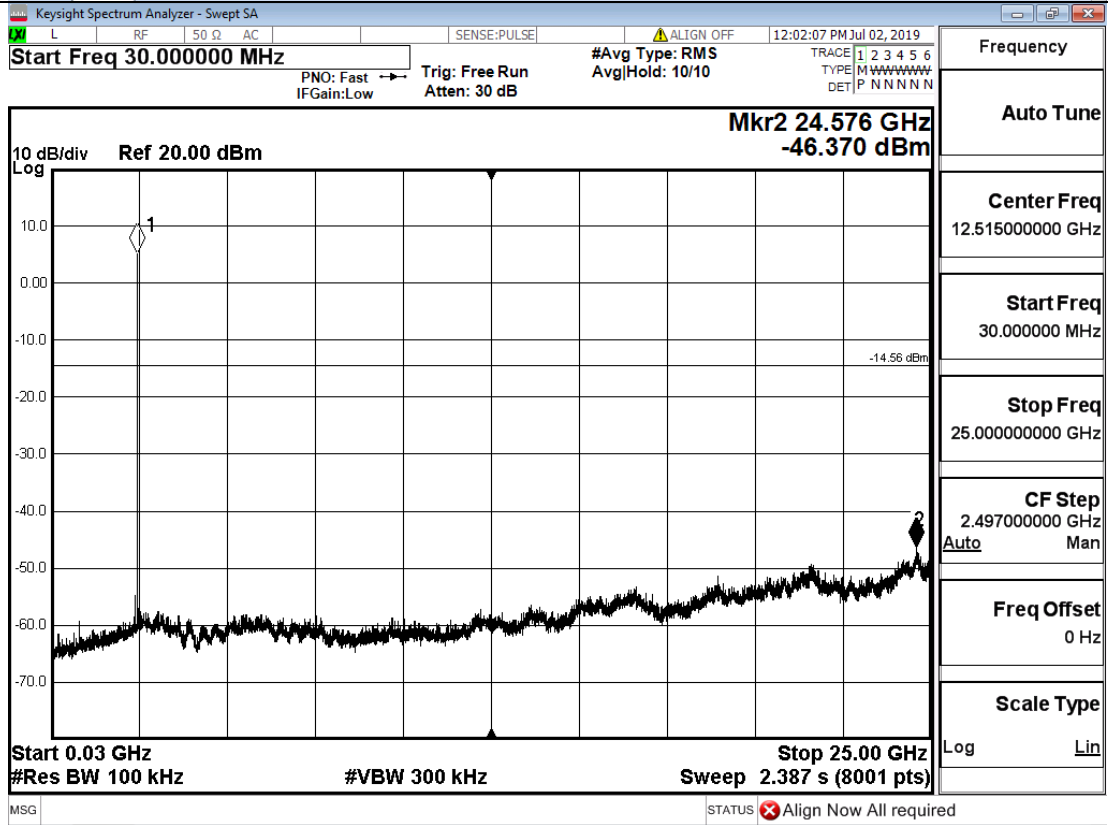


LE_HCH_Graphs

Pref/ LE/HCH

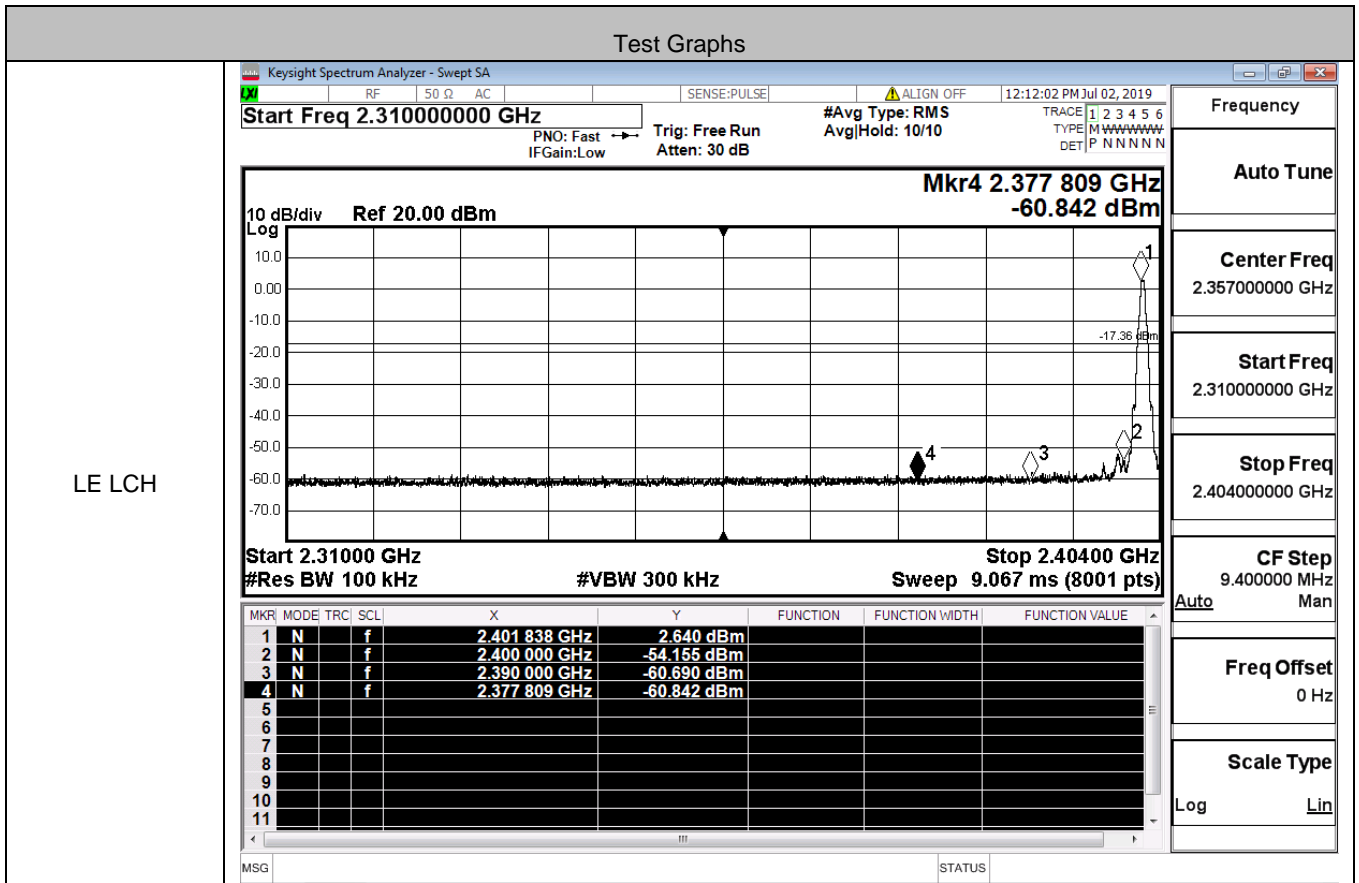


Puw/ LE/HCH

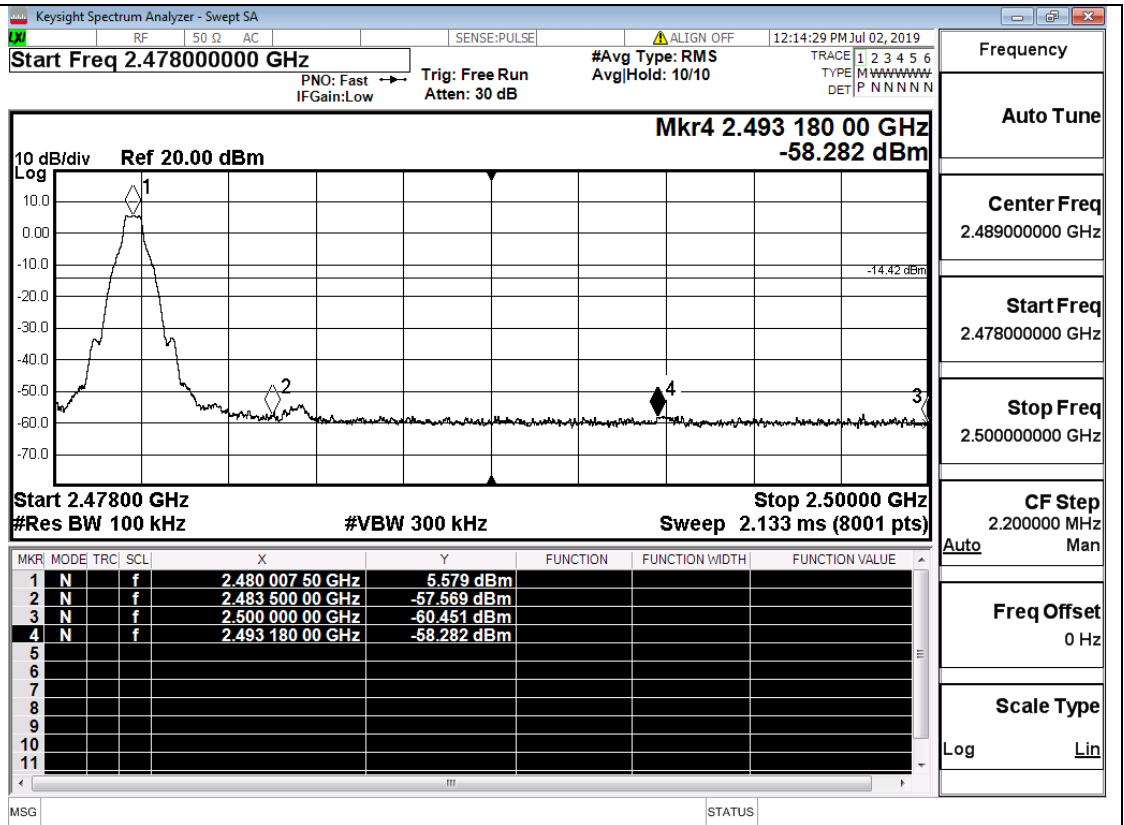


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
LE	LCH	2.640	-54.155	-17.36	PASS
LE	HCH	5.579	-57.569	-14.42	PASS



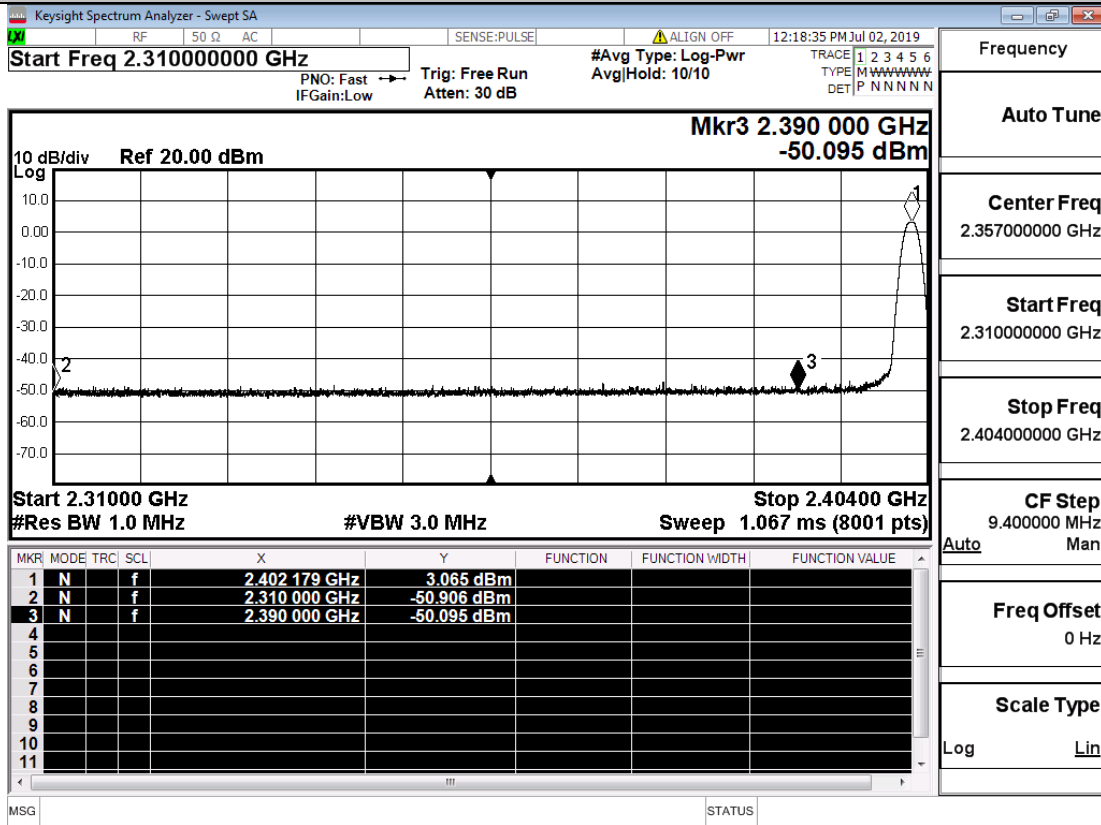
LE HCH



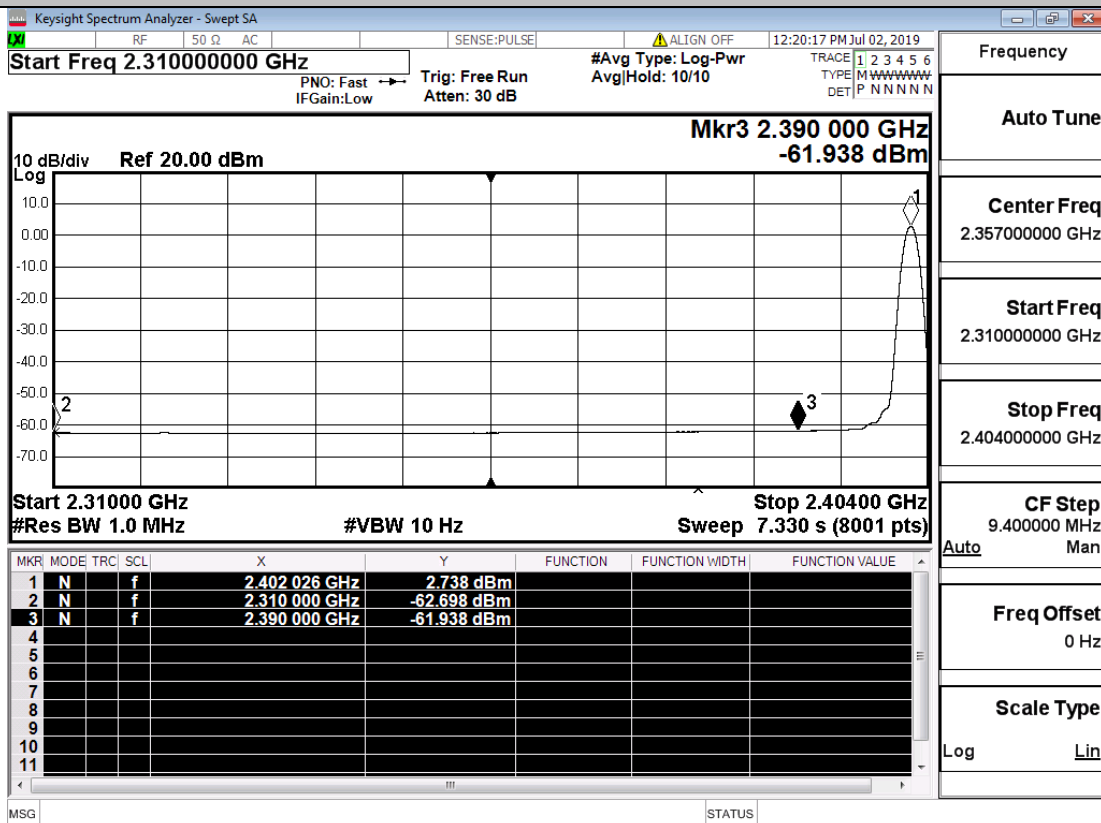
B.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
LE	2402	Ant1	2310.0	-50.906	2.000	0	46.32	PEAK	74	PASS
		Ant1	2310.0	-62.698	2.000	0	34.53	AV	54	PASS
		Ant1	2390.0	-50.095	2.000	0	47.14	PEAK	74	PASS
		Ant1	2390.0	-61.938	2.000	0	35.29	AV	54	PASS
	2480	Ant1	2483.5	-47.895	2.000	0	49.34	PEAK	74	PASS
		Ant1	2483.5	-58.851	2.000	0	38.38	AV	54	PASS
		Ant1	2500.0	-50.500	2.000	0	46.73	PEAK	74	PASS
		Ant1	2500.0	-61.398	2.000	0	35.83	AV	54	PASS

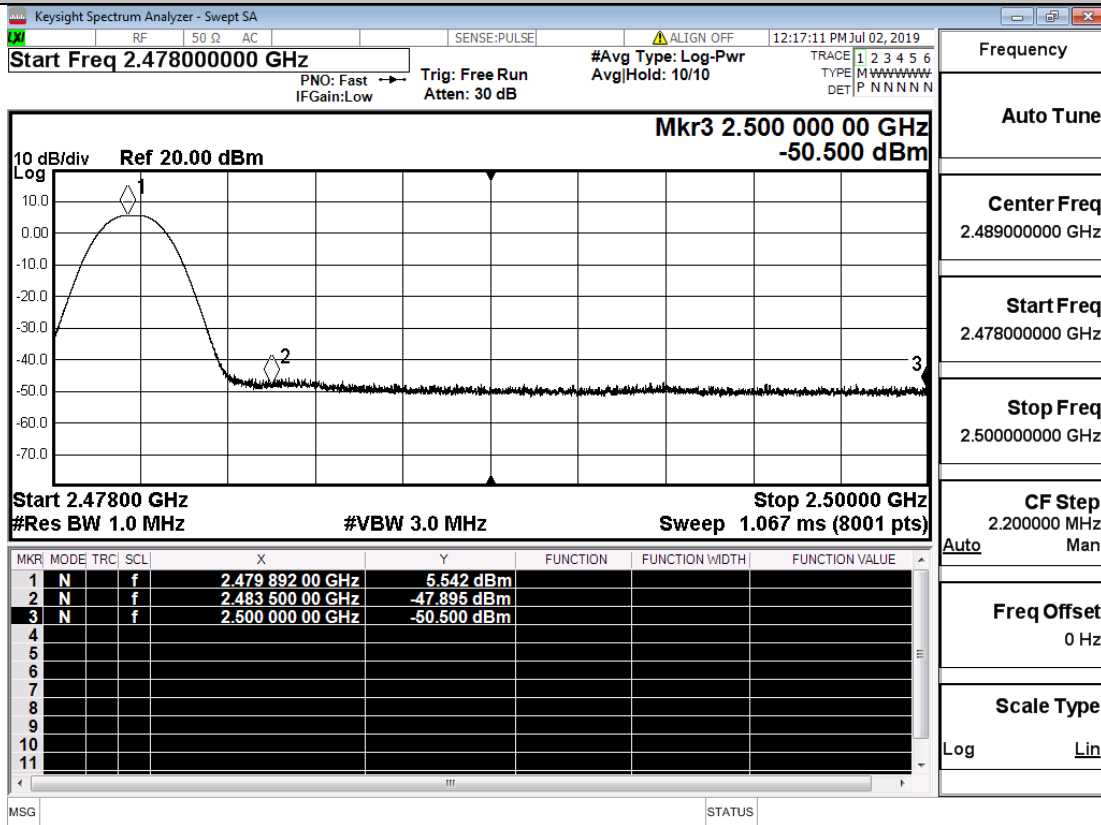
Restrict-band band-edge measurements_LE_2402_Ant1_PEAK



Restrict-band band-edge measurements_LE_2402_Ant1_AV



Restrict-band band-edge measurements_LE_2480_Ant1_PEAK



Restrict-band band-edge measurements_LE_2480_Ant1_AV

