

Appendix A

RF Test Data for BT 4.2(BLE) (Conducted Measurement)

Product Name: TITAN 1760

Trade Mark: TITAN

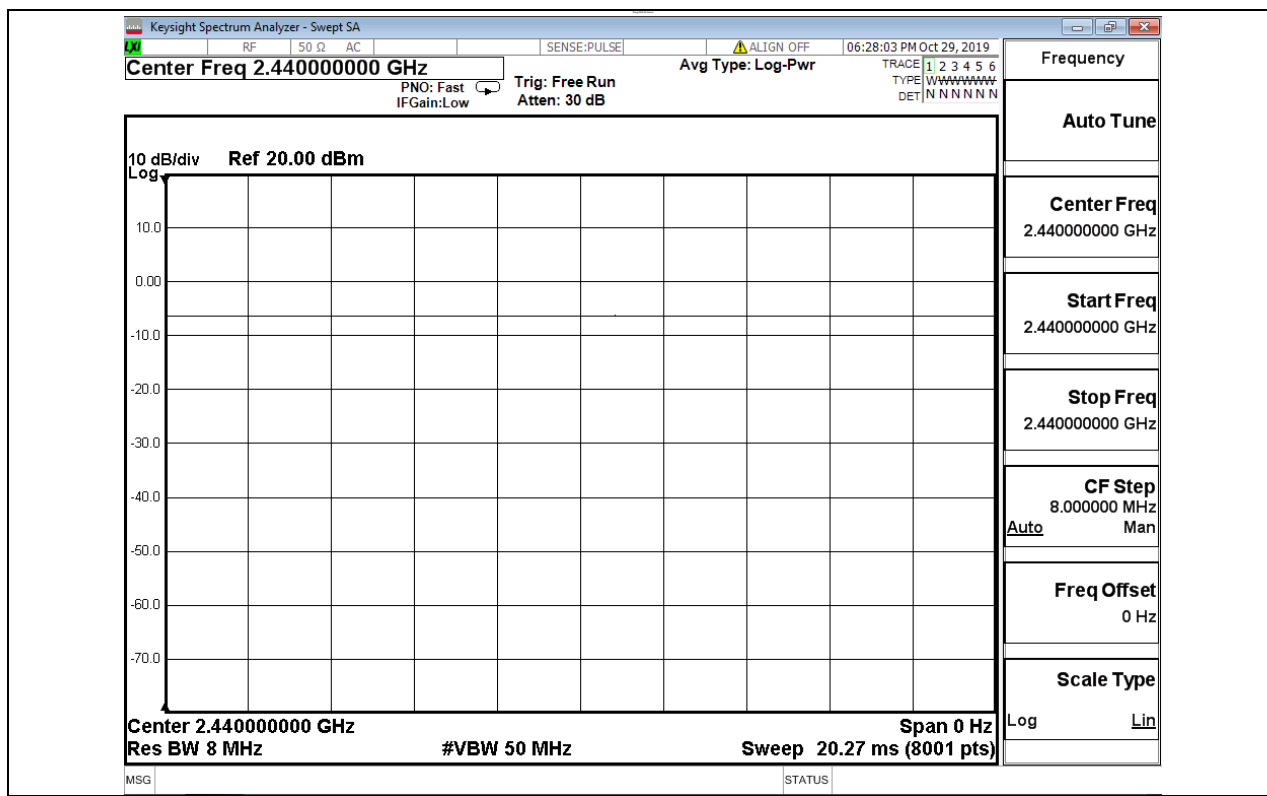
Test Model: 1760KM01

Environmental Conditions

Temperature:	23.4 ° C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	CHUANG WANG
Supervised by:	JAYDEN ZHUO

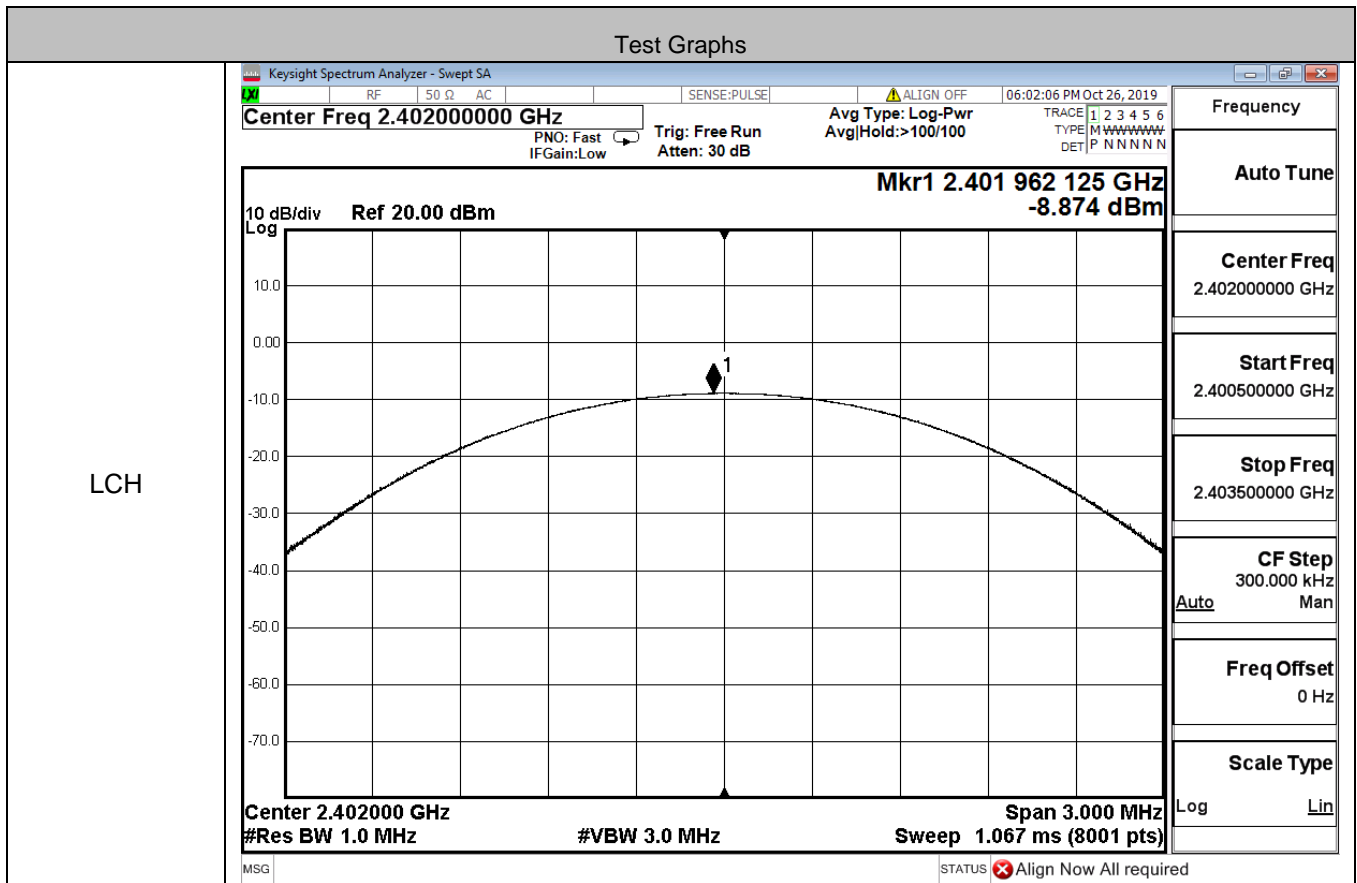
A.1 Duty Cycle

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

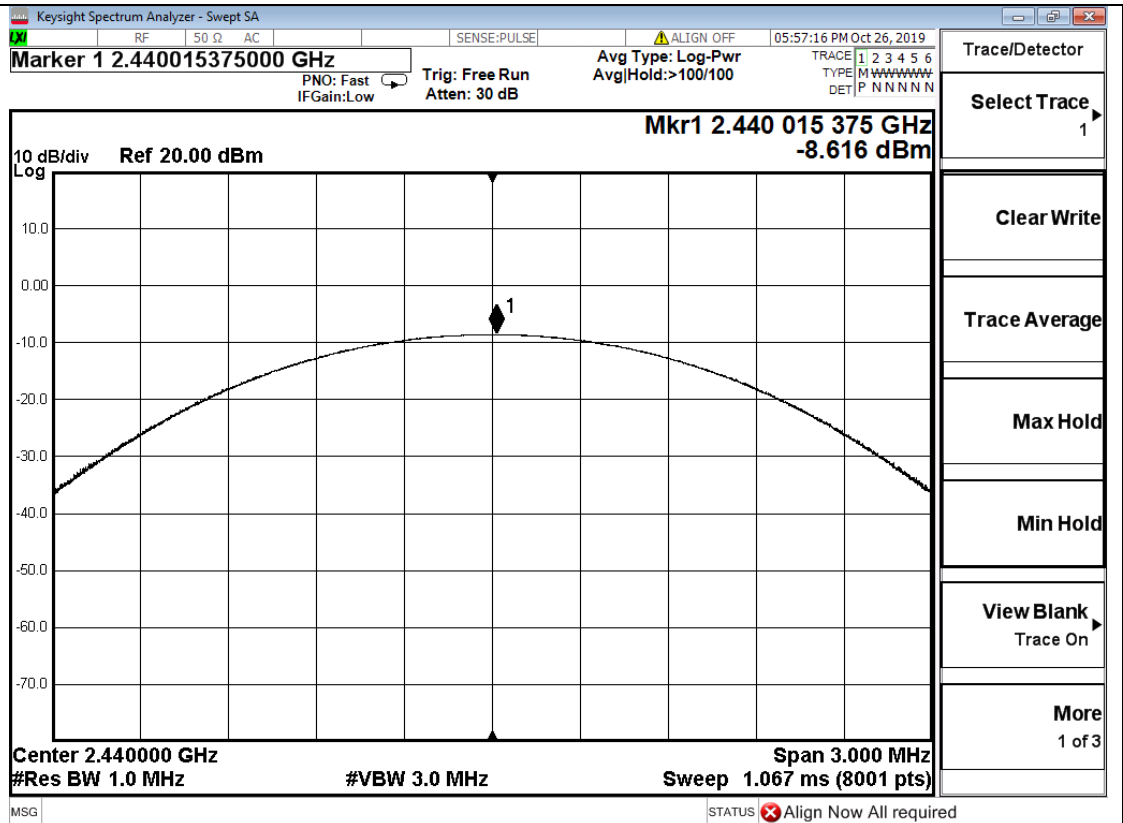


A.2 Maximum Conducted Peak Output Power

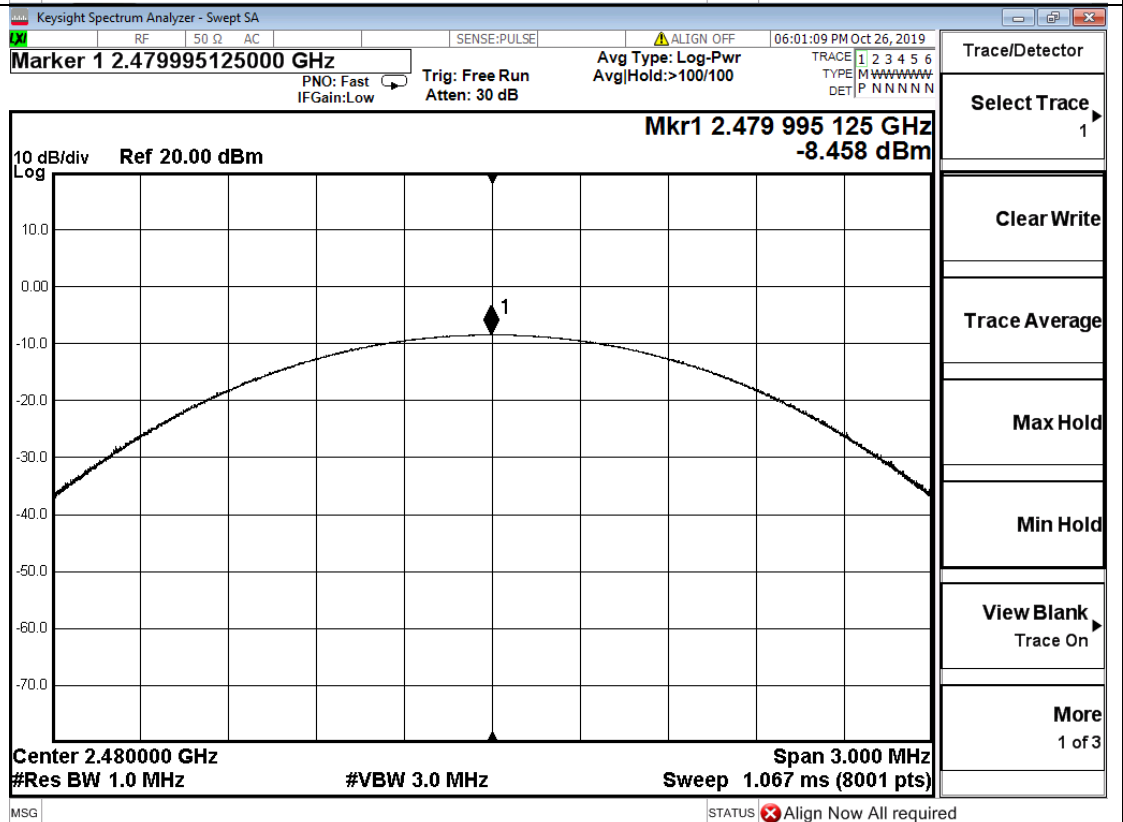
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-8.874	30	PASS
BT LE	MCH	-8.616	30	PASS
BT LE	HCH	-8.458	30	PASS



MCH



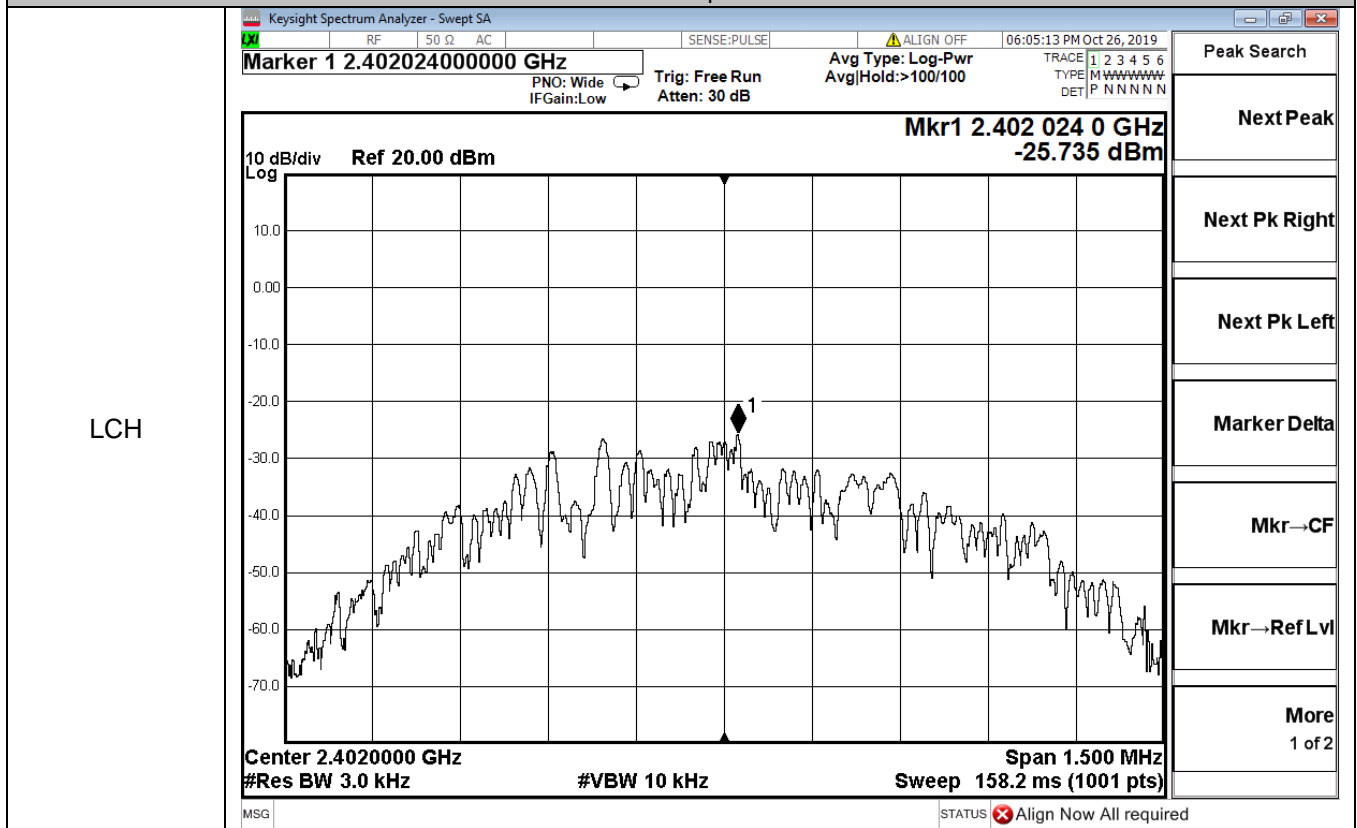
HCH



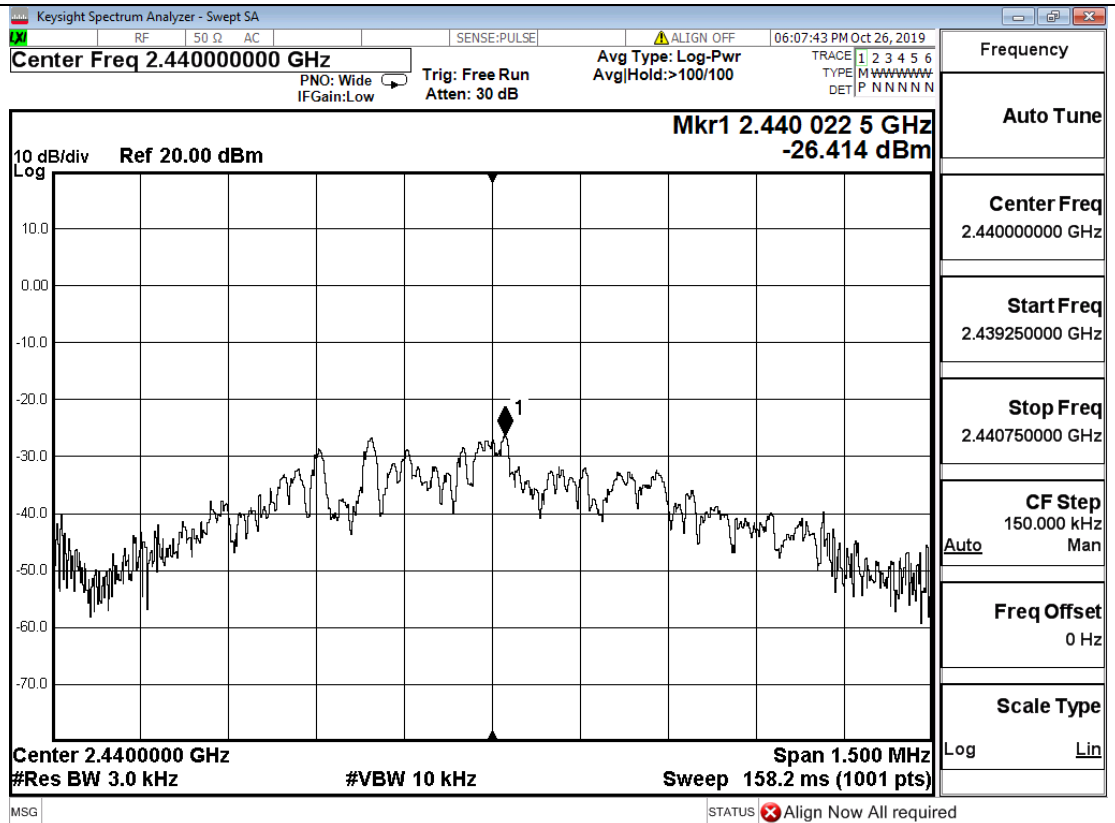
A.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-25.735	8	PASS
BT LE	MCH	-26.414	8	PASS
BT LE	HCH	-26.074	8	PASS

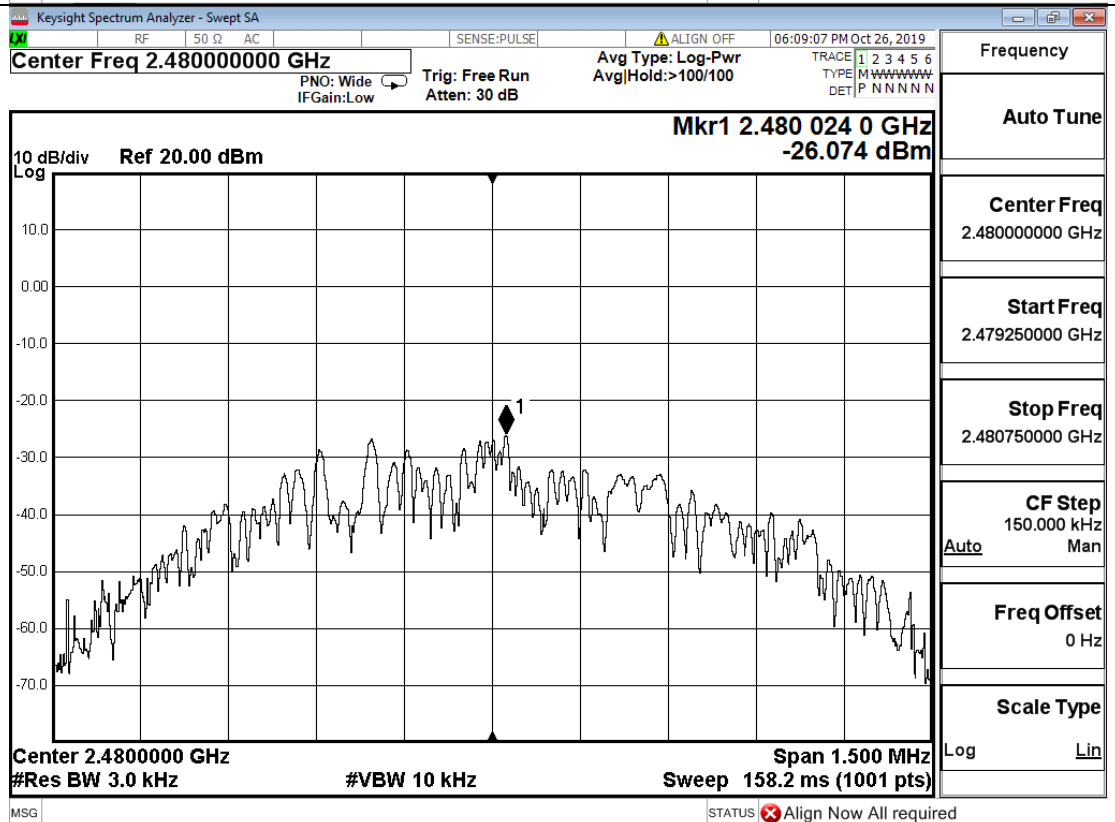
Test Graphs



MCH

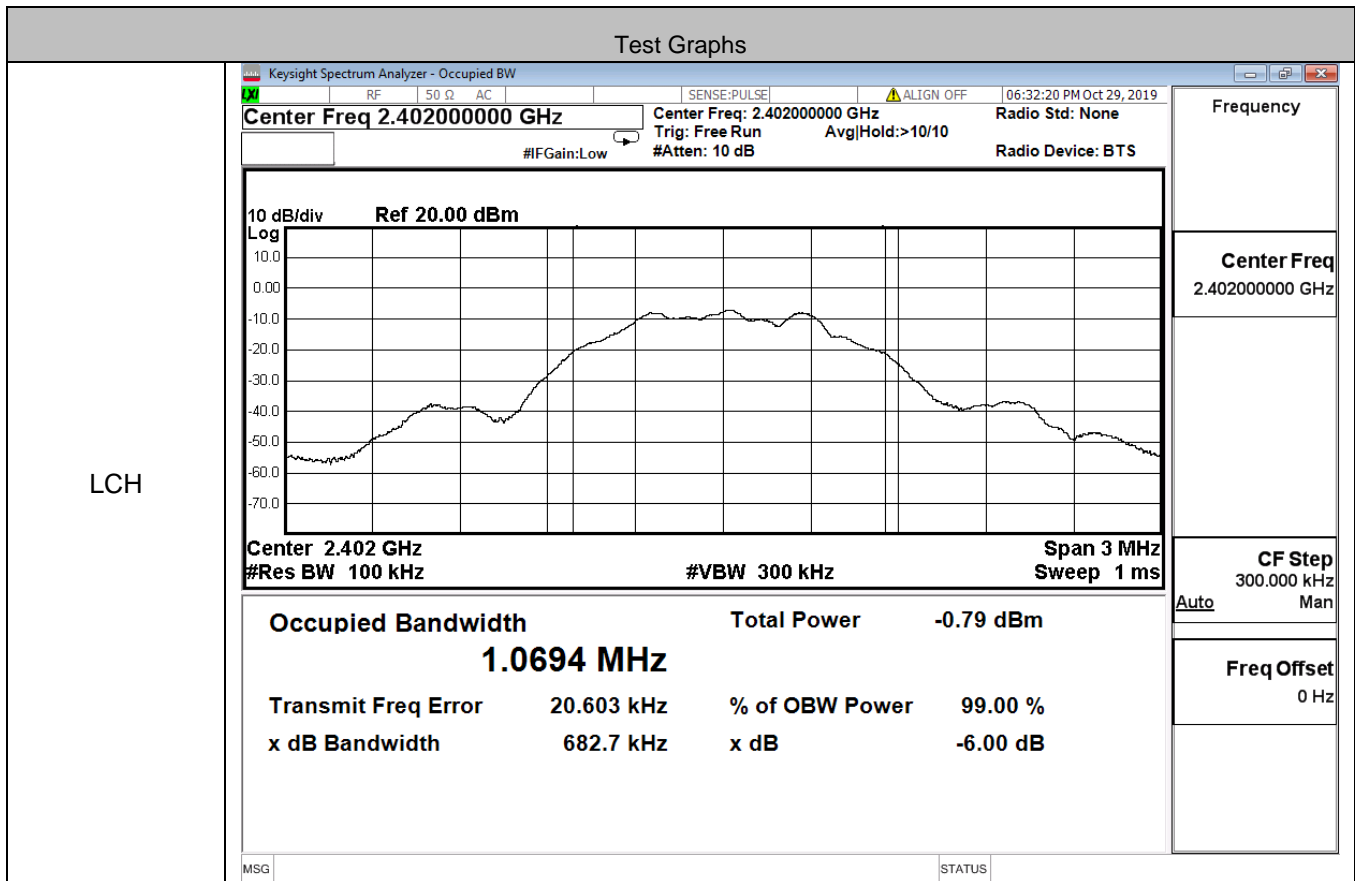


HCH

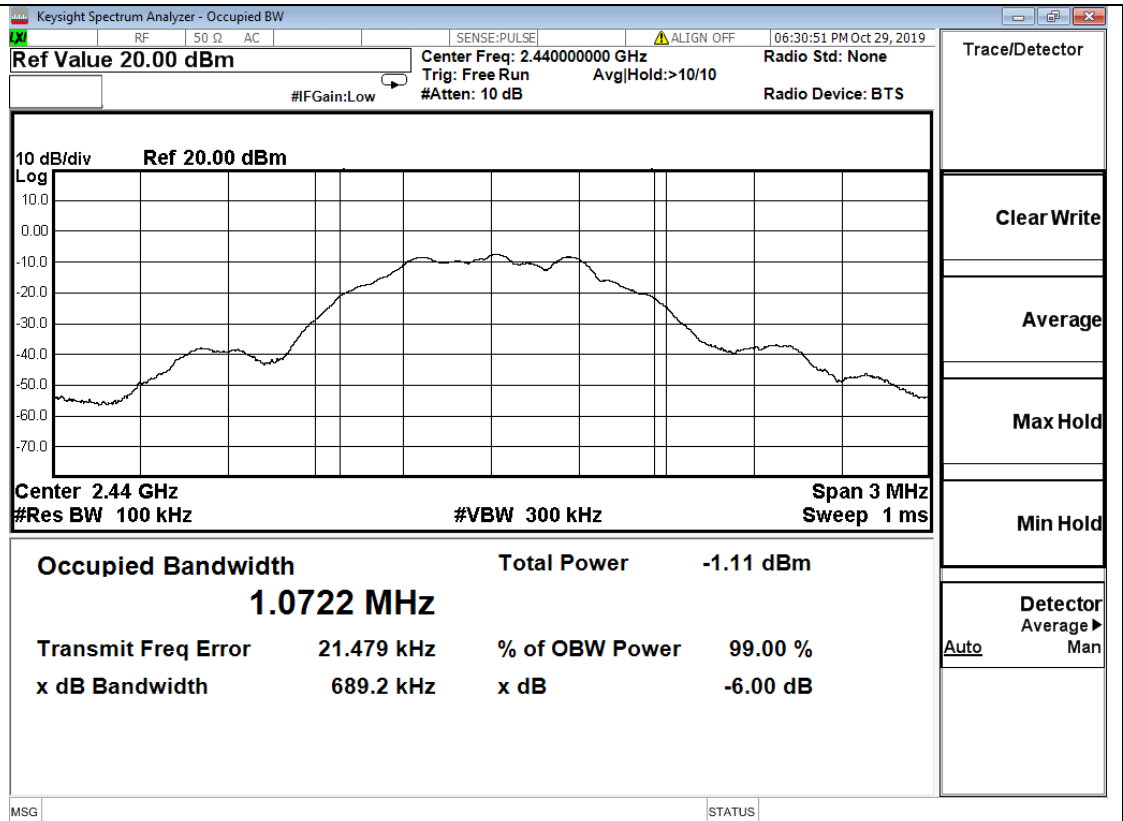


A.4 6dB Bandwidth and Occupied Bandwidth

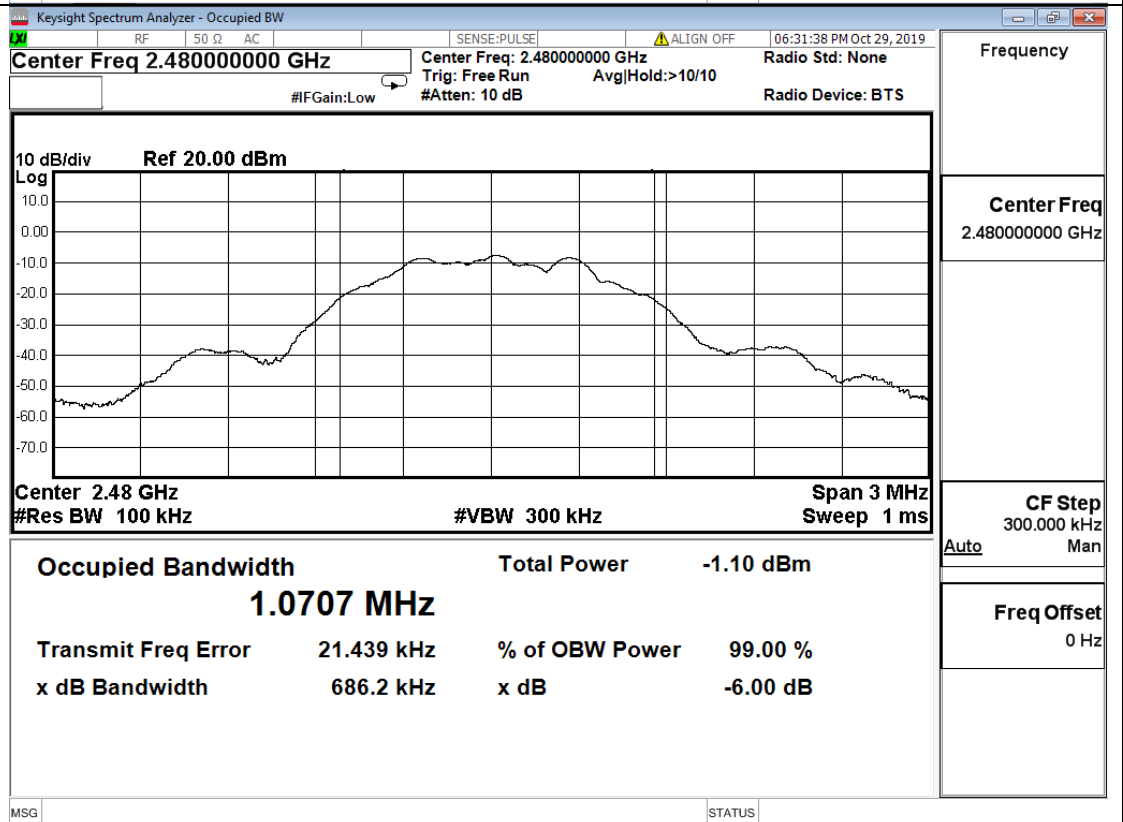
Mode	Channel	Occupied Bandwidth [MHz]	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.0694	0.6827	≥ 0.5	PASS
BT LE	MCH	1.0722	0.6892	≥ 0.5	PASS
BT LE	HCH	1.0707	0.6862	≥ 0.5	PASS



MCH



HCH

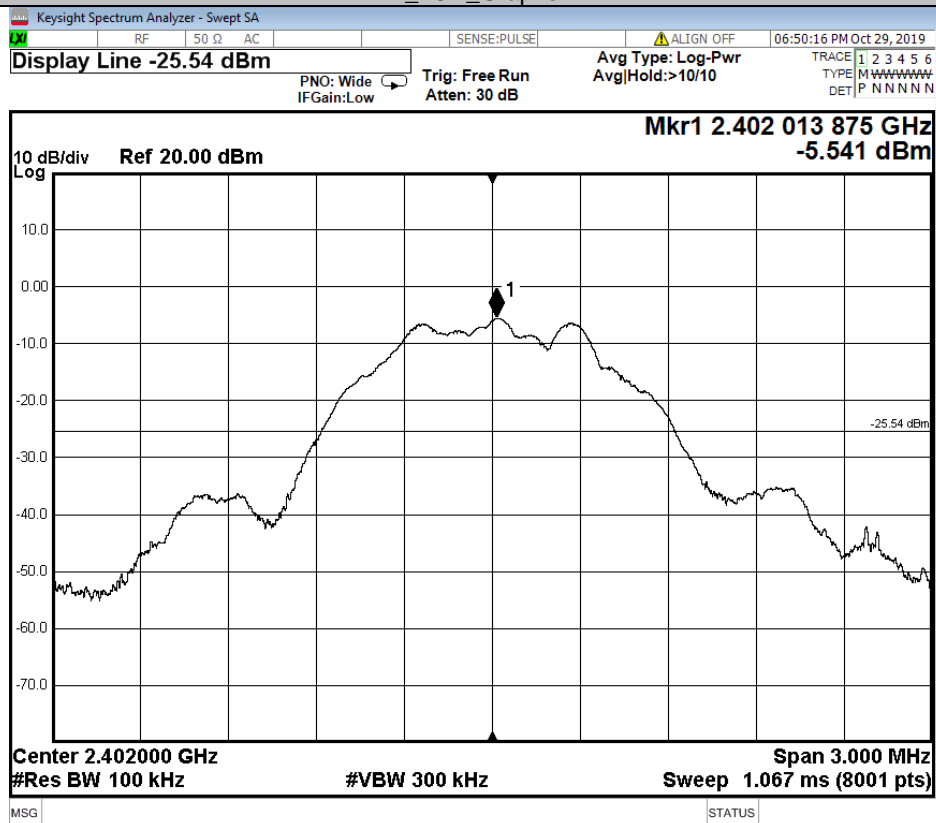


A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-5.541	-47.926	-25.54	PASS
BT LE	MCH	-5.926	-50.943	-25.93	PASS
BT LE	HCH	-6.527	-52.333	-26.53	PASS

BT LE_LCH_Graphs

Pref/BT LE/LCH



Display

Annotation▶

Title▶

Graticule

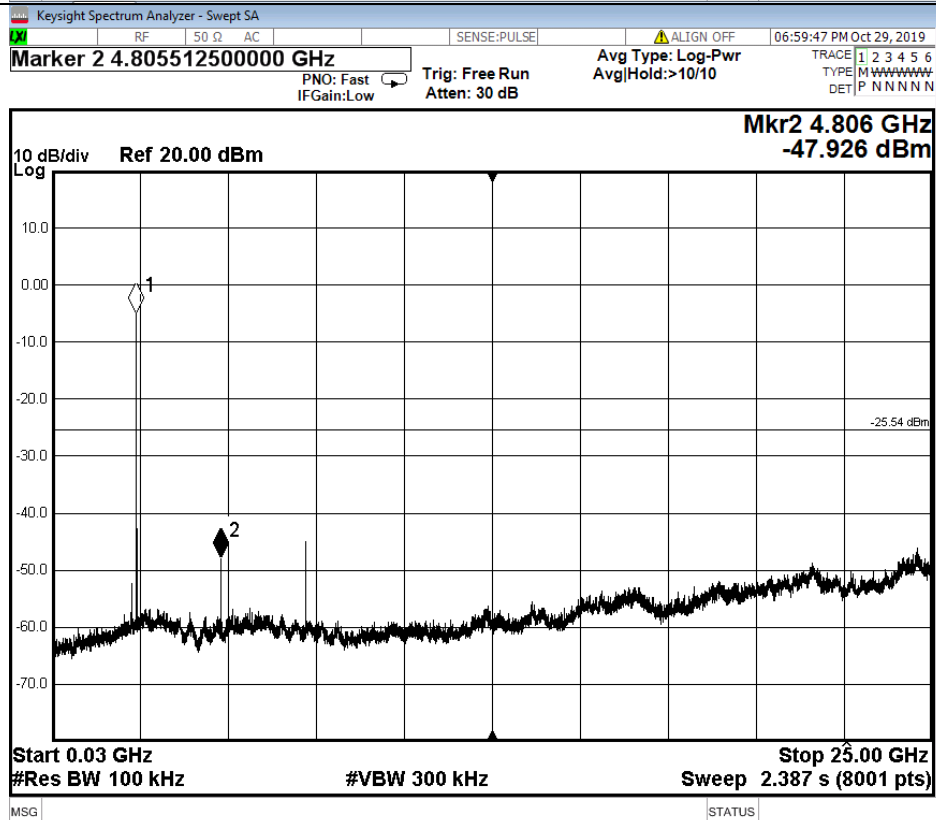
On Off

Display Line

On -25.54 dBm Off

System
Display▶
Settings

Puw/BT LE/LCH



Peak Search

Next Peak

Next Pk Right

Next Pk Left

Marker Delta

Mkr→CF

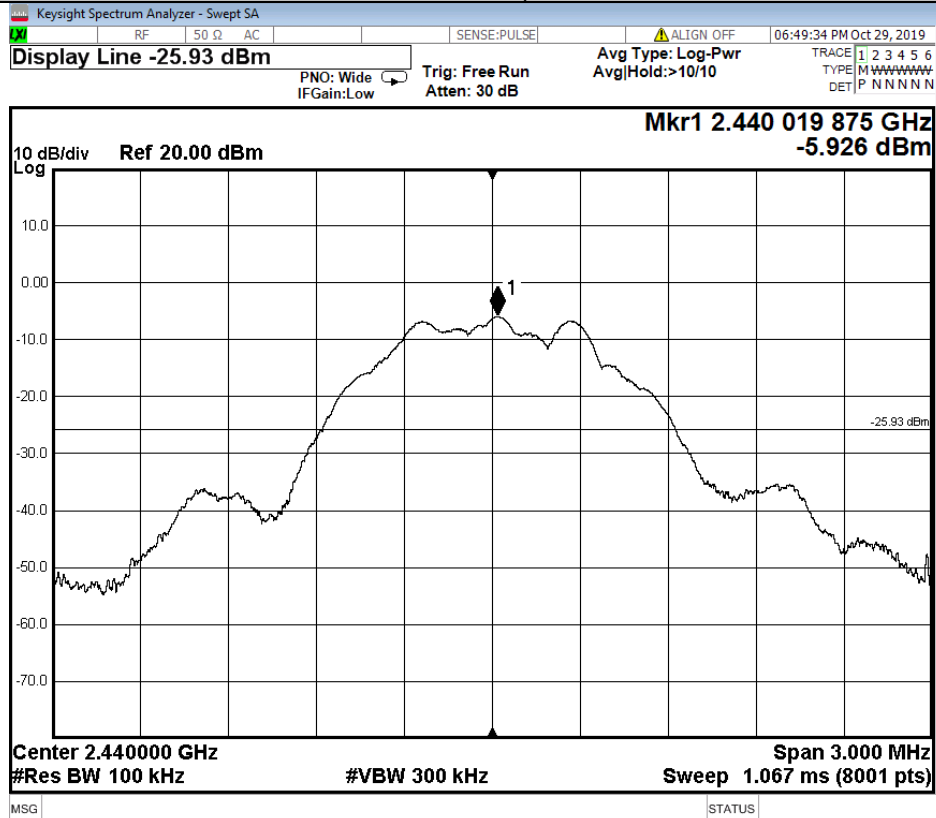
Mkr→Ref Lvl

More

1 of 2

BT LE_MCH_Graphs

Pref/BT LE/MCH



Display

Annotation▶

Title▶

Graticule

On

Off

Display Line

On

-25.93 dBm

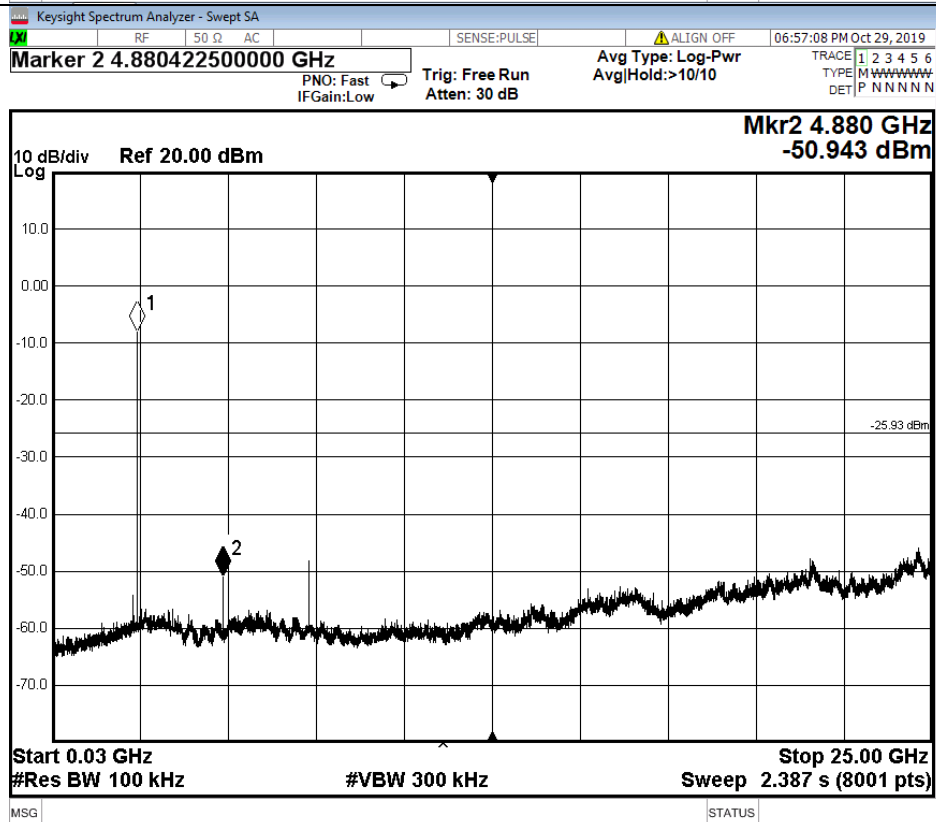
Off

System

Display▶

Settings

Puw/BT LE/MCH



Peak Search

Next Peak

Next Pk Right

Next Pk Left

Marker Delta

Mkr→CF

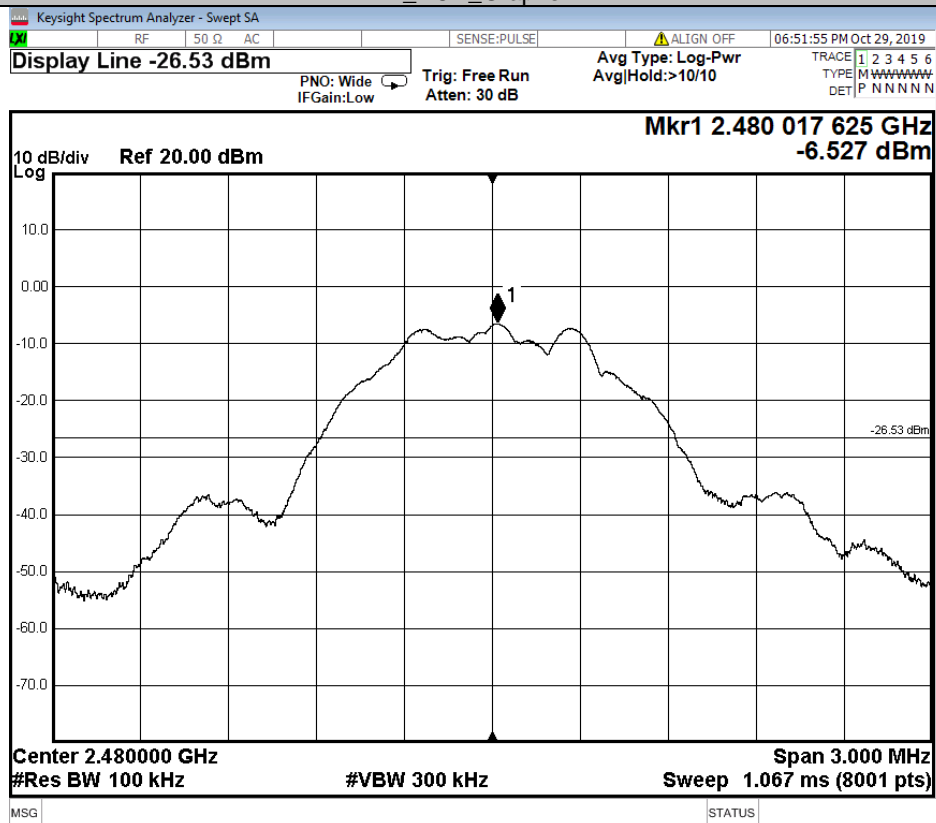
Mkr→Ref Lvl

More

1 of 2

BT LE_HCH_Graphs

Pref/BT LE/HCH



Display

Annotation▶

Title▶

Graticule

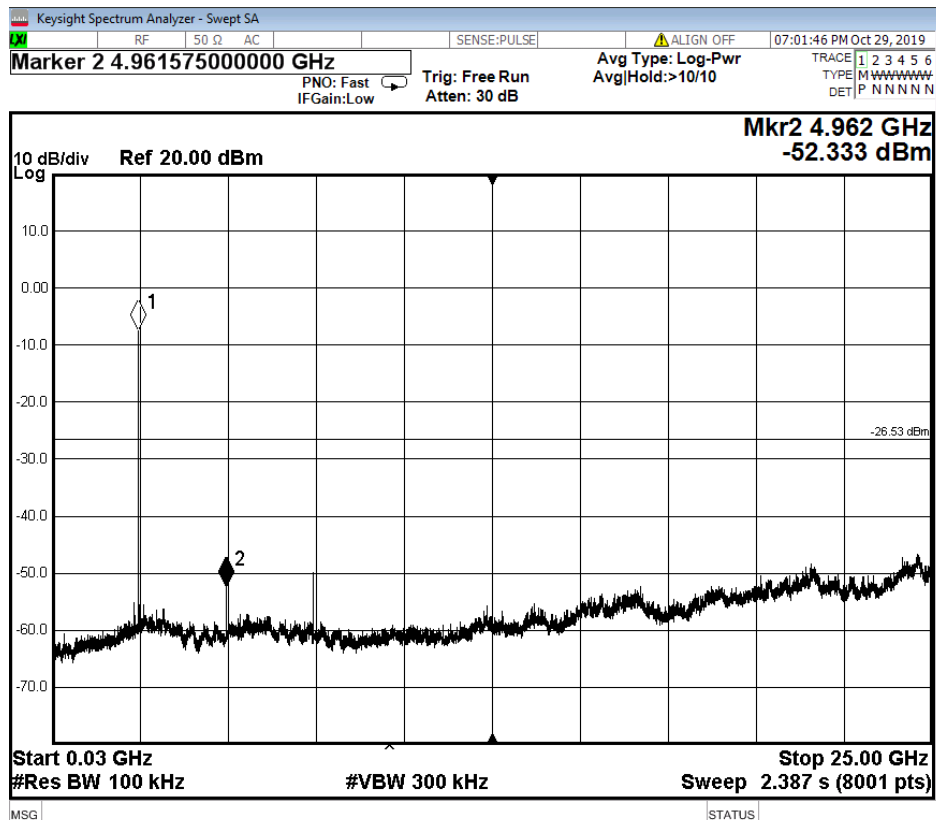
On Off

Display Line

On Off

System
Display▶
Settings

Puw/BT LE/HCH



Peak Search

Next Peak

Next Pk Right

Next Pk Left

Marker Delta

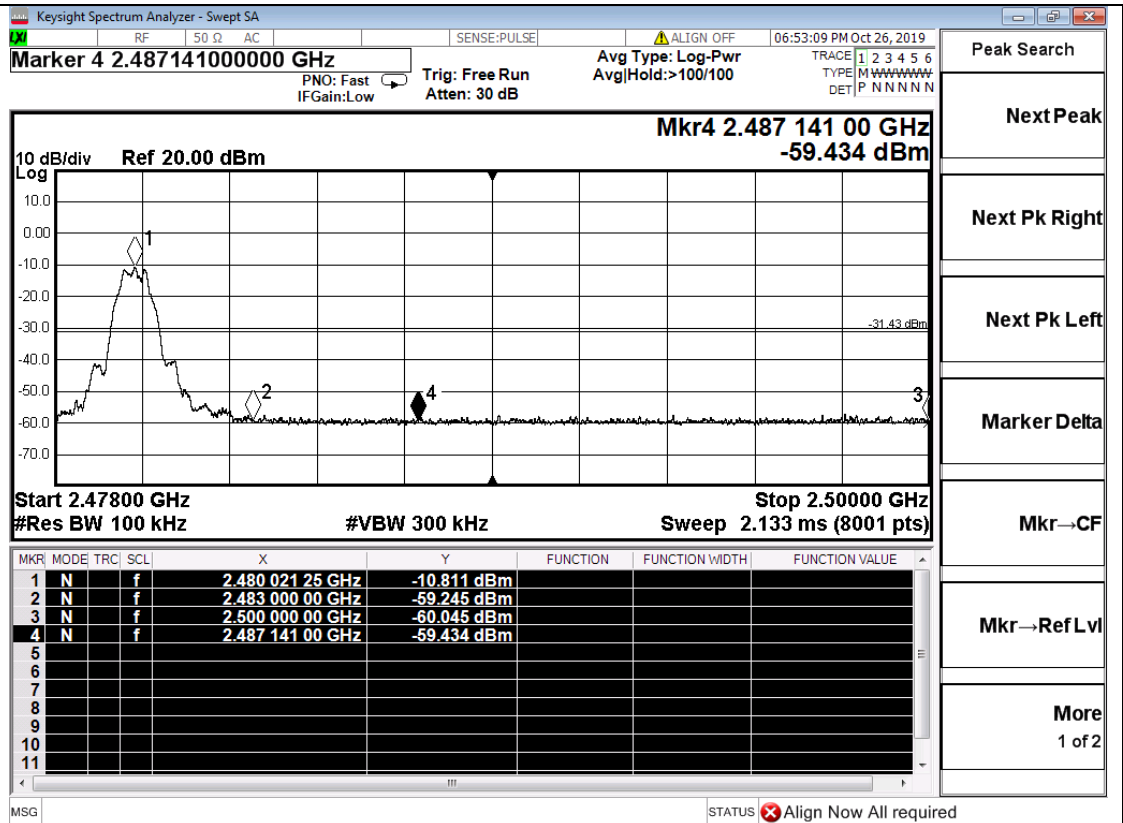
Mkr→CF

Mkr→Ref Lvl

More

1 of 2

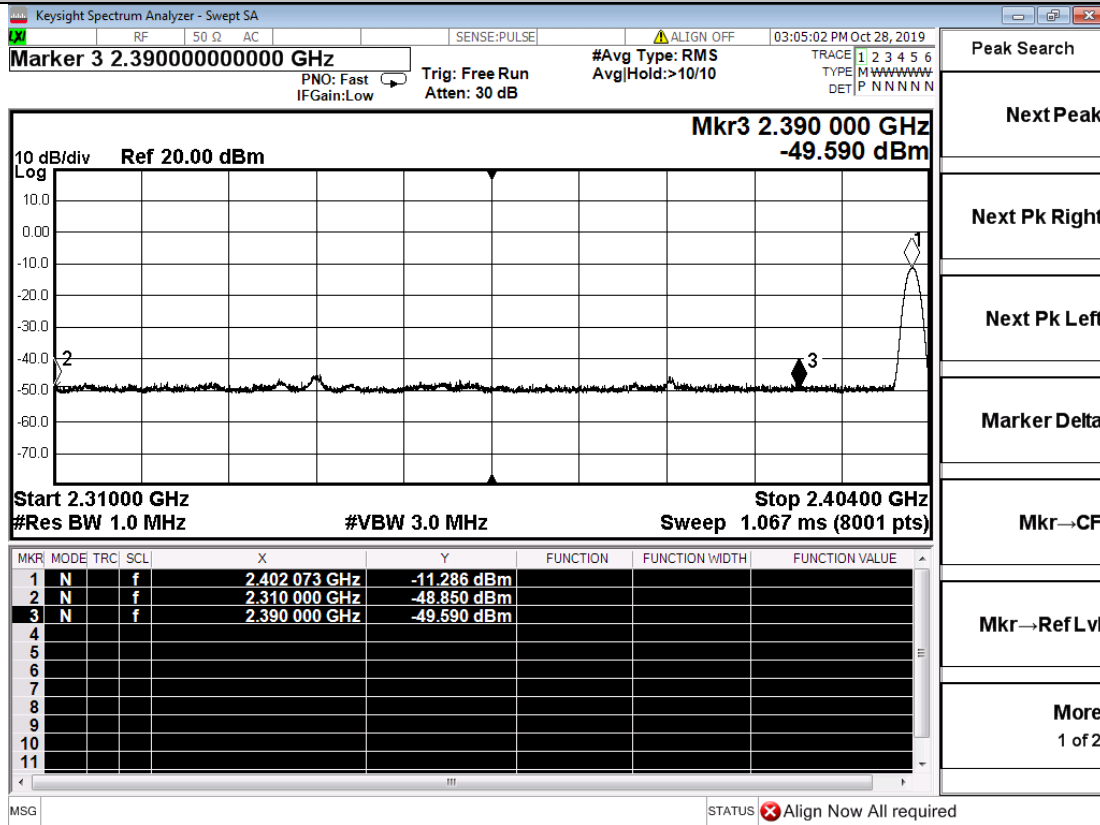
HCH



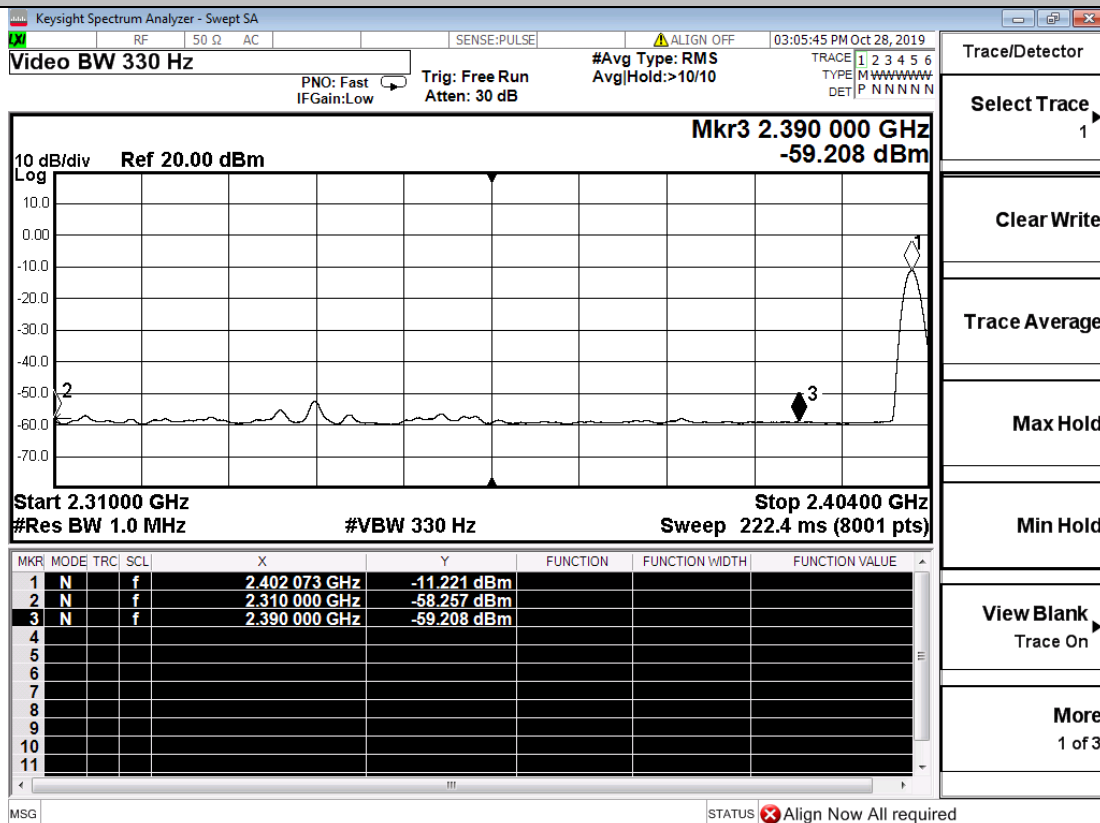
A.8 Restrict-band band-edge measurements

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	-48.850	2.41	0	48.79	PEAK	74	PASS
		Ant1	2310.0	-58.257	2.41	0	39.38	AV	54	PASS
		Ant1	2390.0	-49.590	2.41	0	48.05	PEAK	74	PASS
		Ant1	2390.0	-59.208	2.41	0	38.43	AV	54	PASS
	2480	Ant1	2483.5	-50.922	2.41	0	46.72	PEAK	74	PASS
		Ant1	2483.5	-58.634	2.41	0	39.01	AV	54	PASS
		Ant1	2500.0	-50.702	2.41	0	46.94	PEAK	74	PASS
		Ant1	2500.0	-58.749	2.41	0	38.89	AV	54	PASS

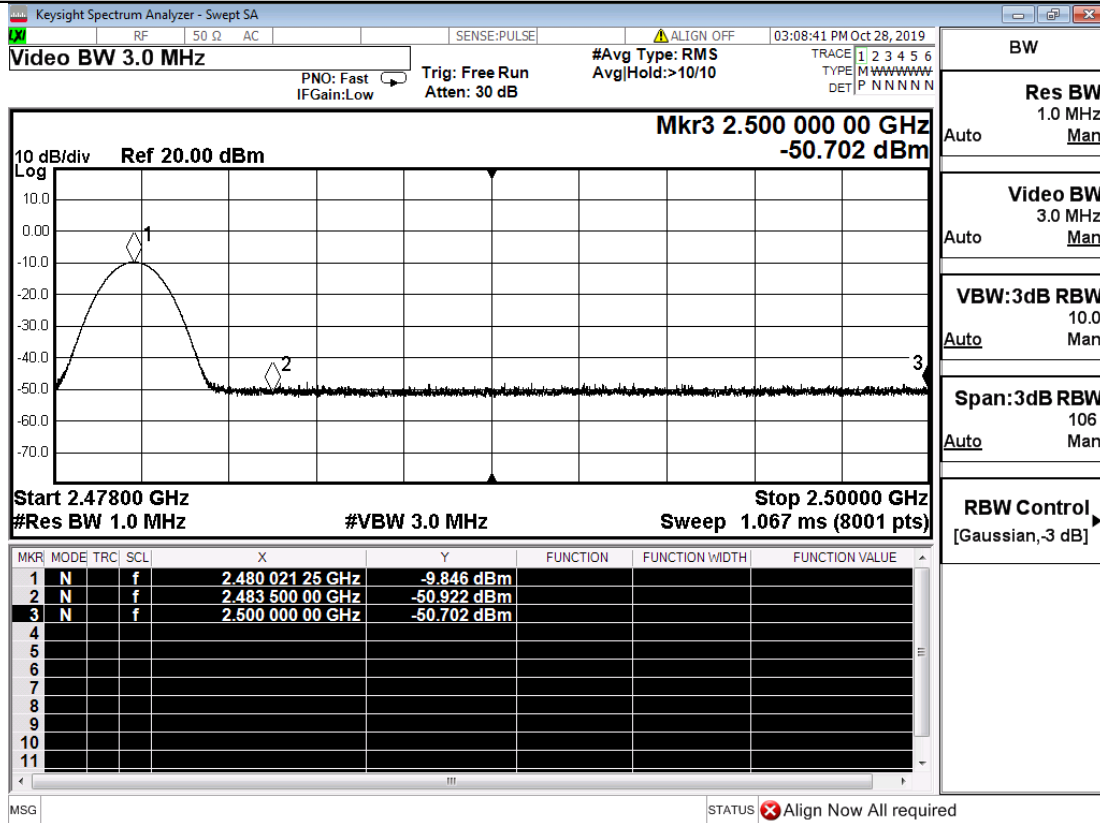
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

