

## Appendix A

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

Product Name: TITAN 1759

Trade Mark: TITAN

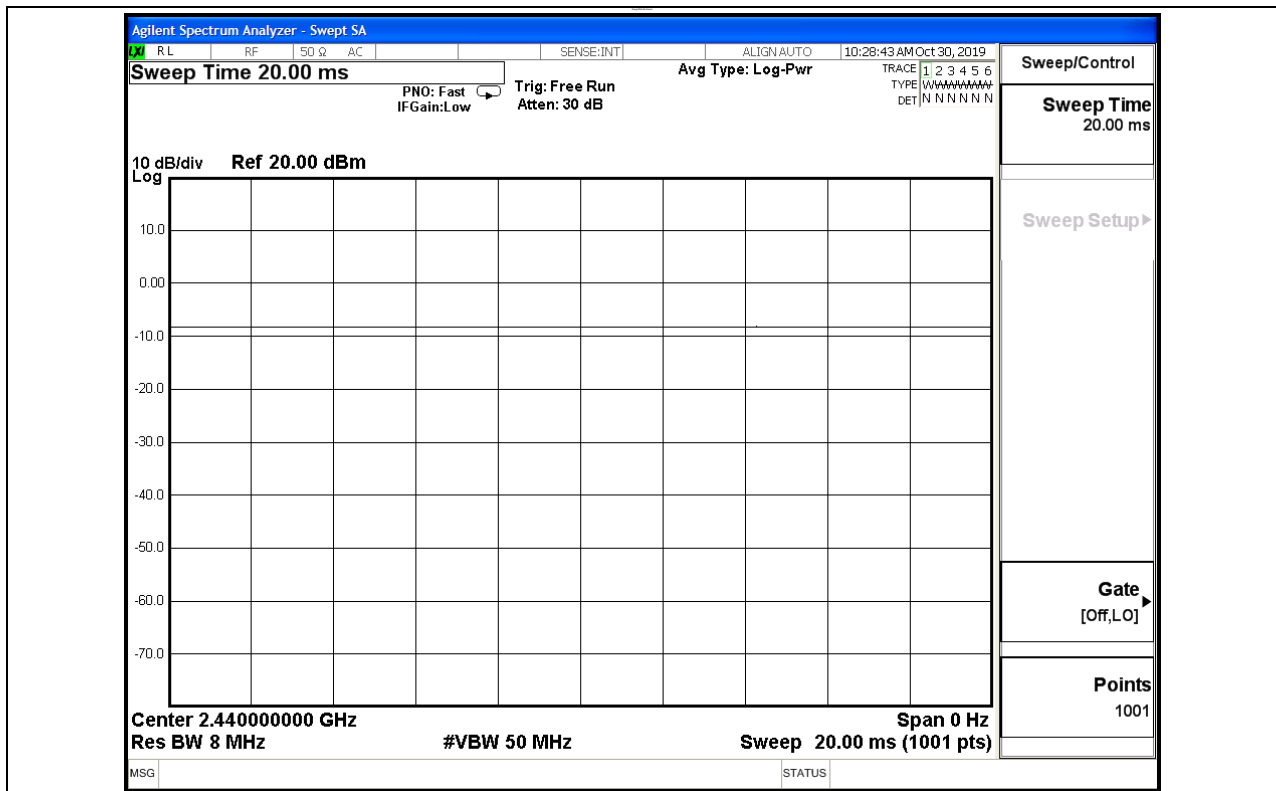
Test Model: 1759KM01

#### Environmental Conditions

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

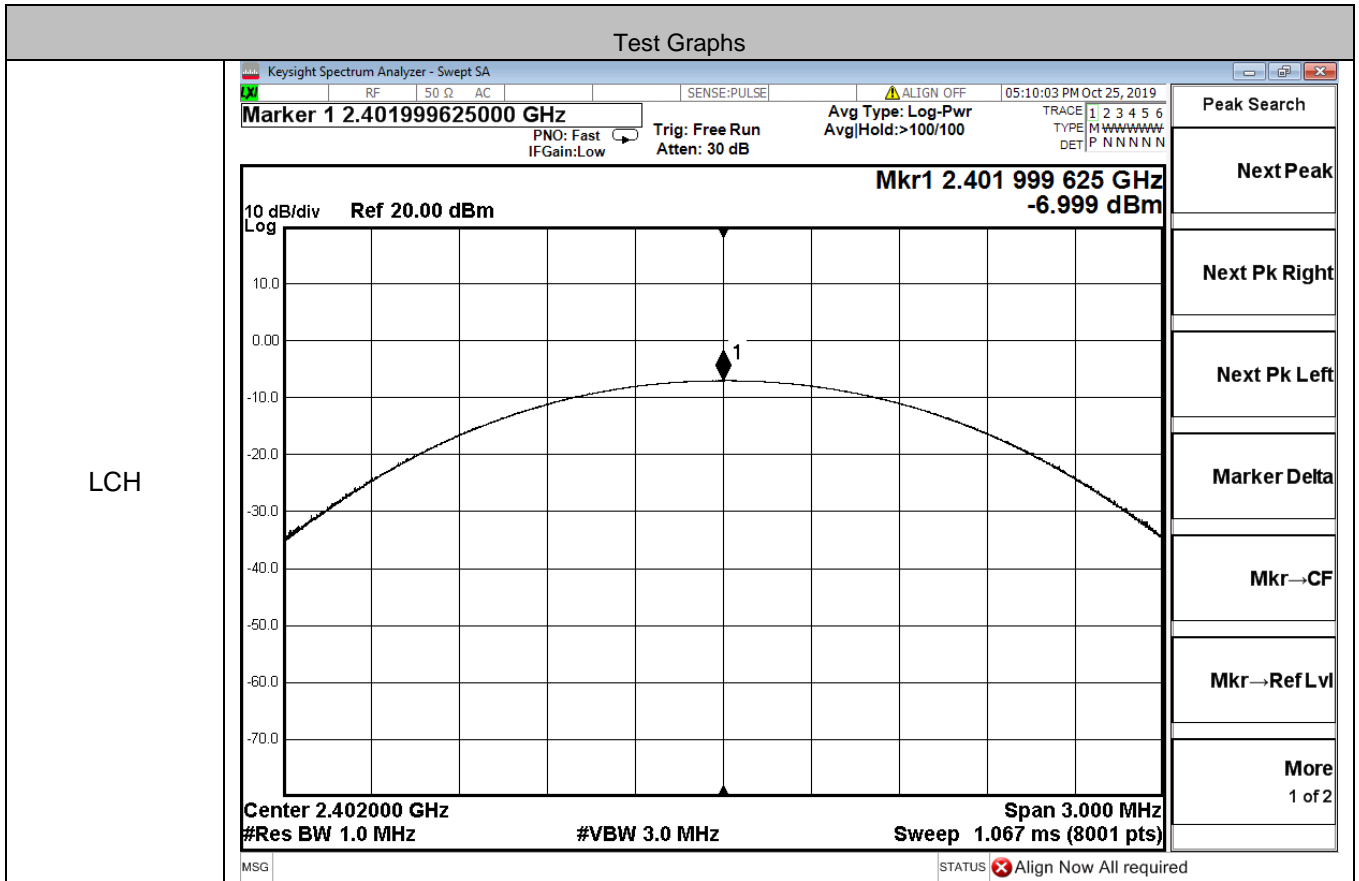
#### A.1 Duty Cycle

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

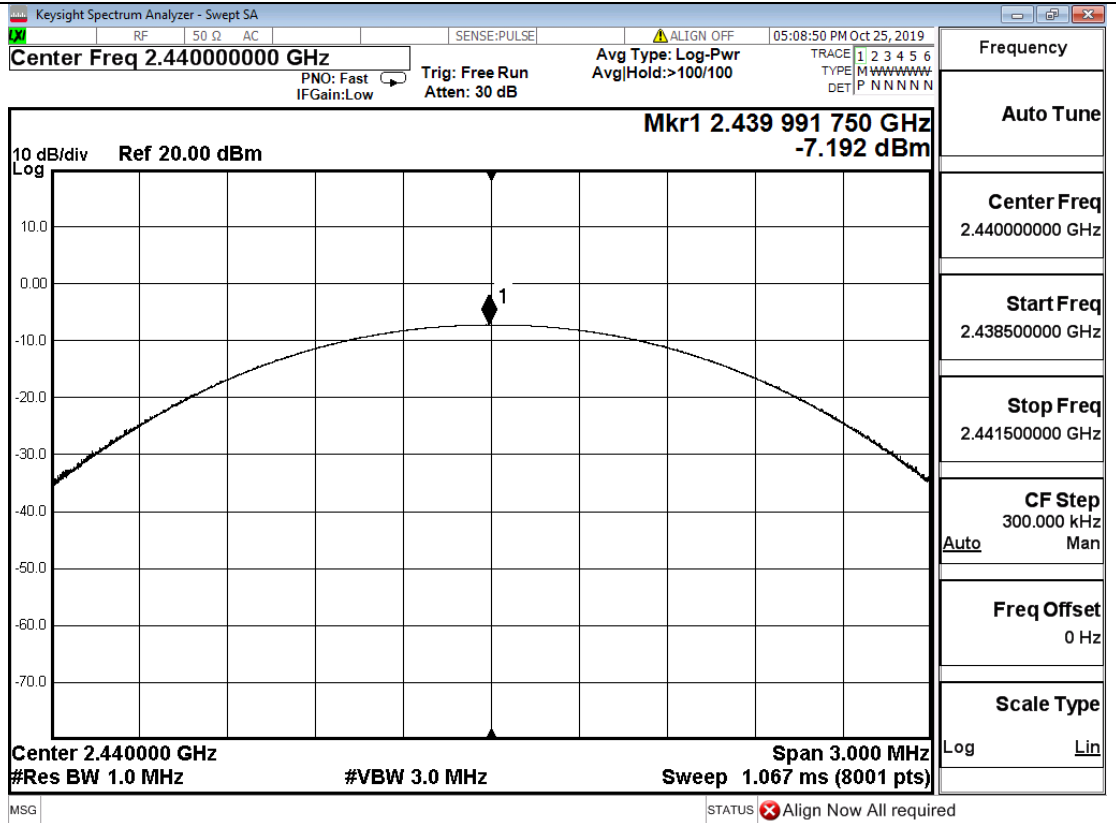


### A.2 Maximum Conducted Peak Output Power

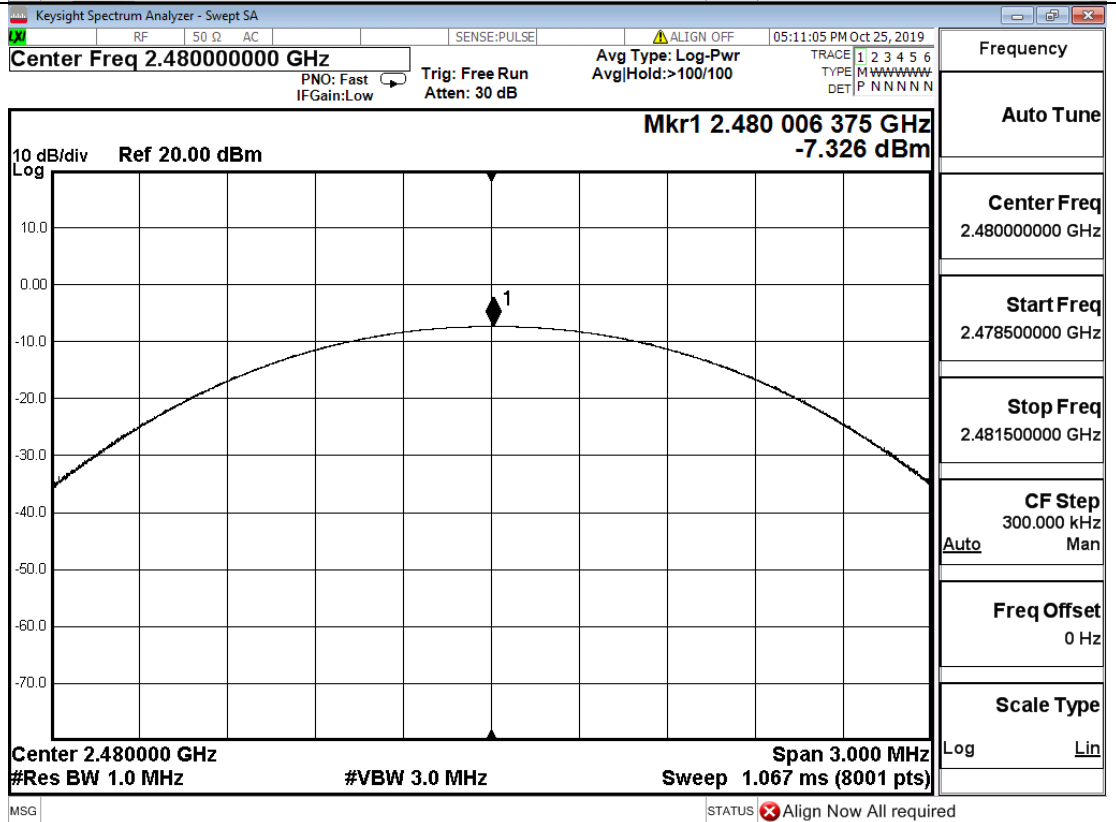
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-6.999	30	PASS
BT LE	MCH	-7.192	30	PASS
BT LE	HCH	-7.326	30	PASS



MCH

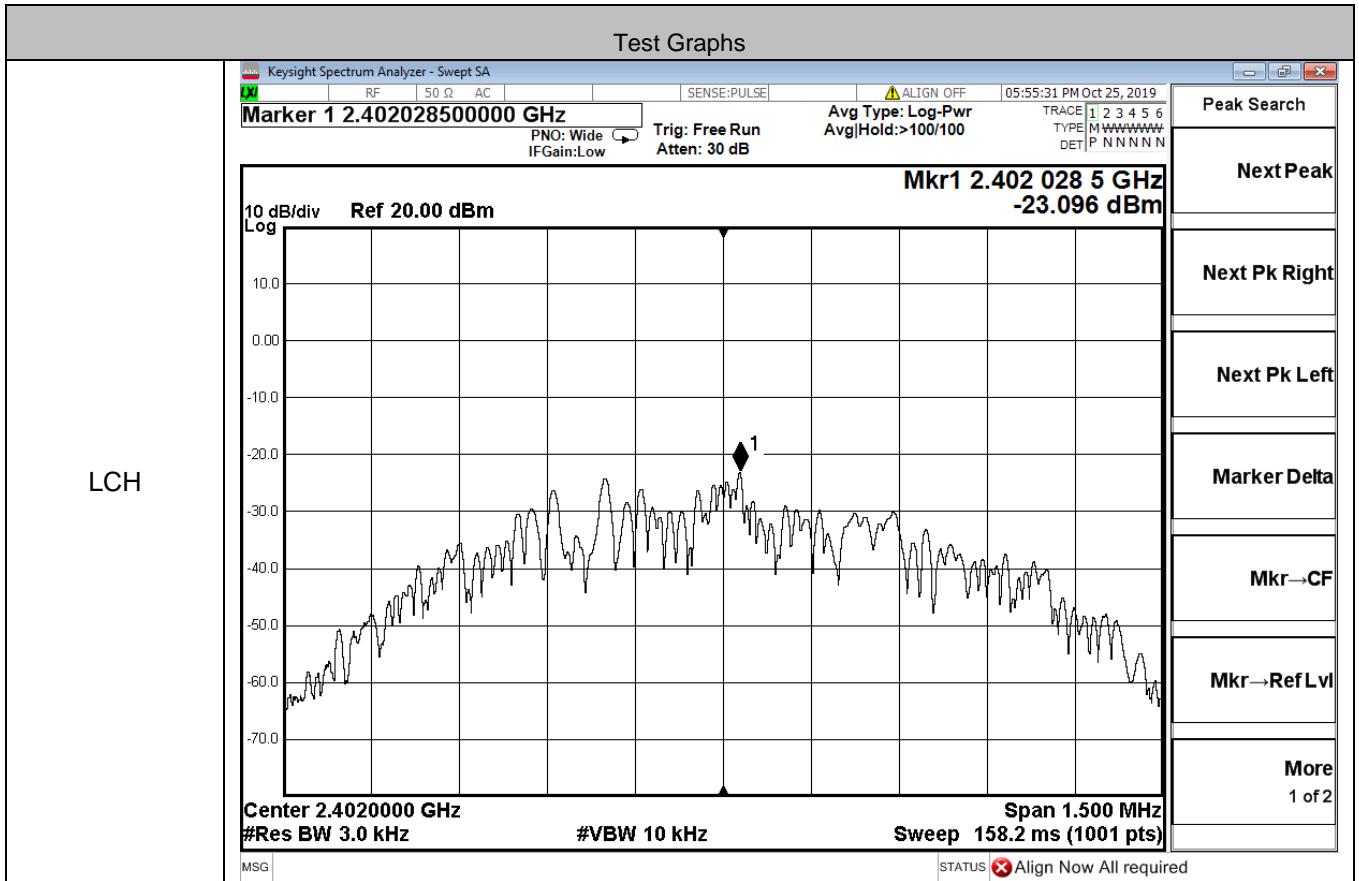


HCH

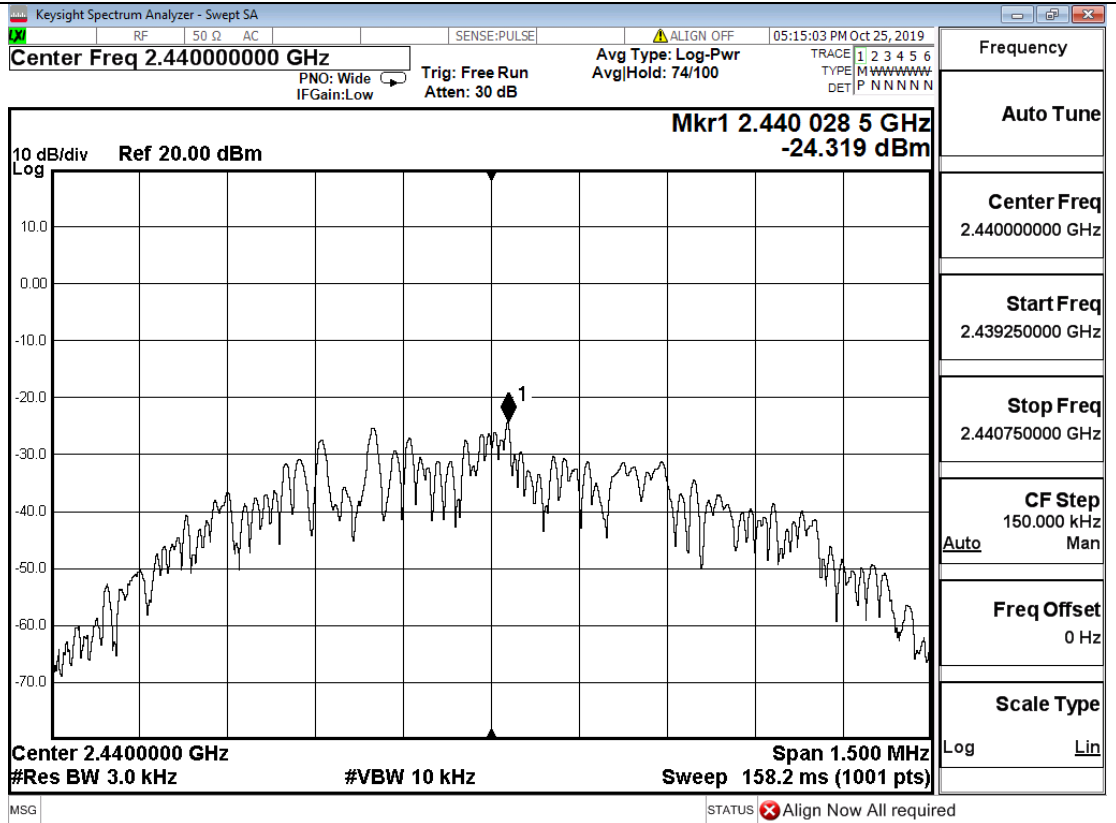


### A.3 Maximum Power Spectral Density

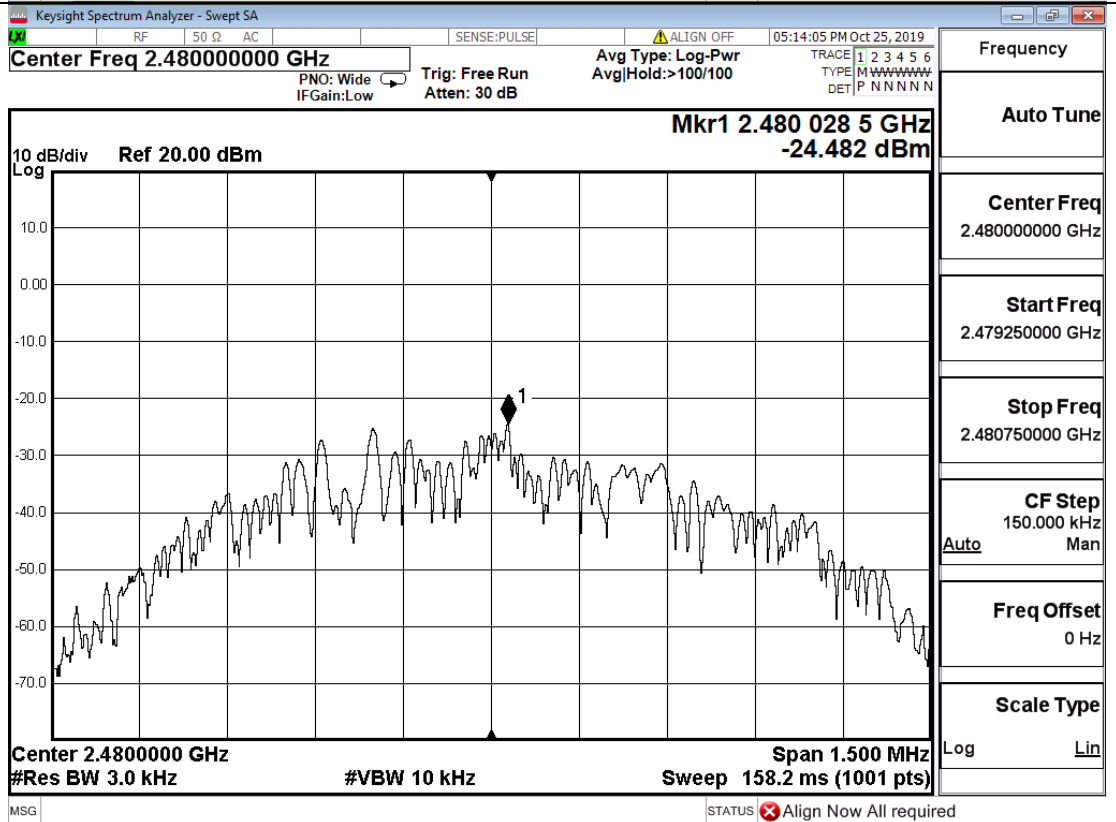
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-23.096	8	PASS
BT LE	MCH	-24.319	8	PASS
BT LE	HCH	-24.482	8	PASS



MCH

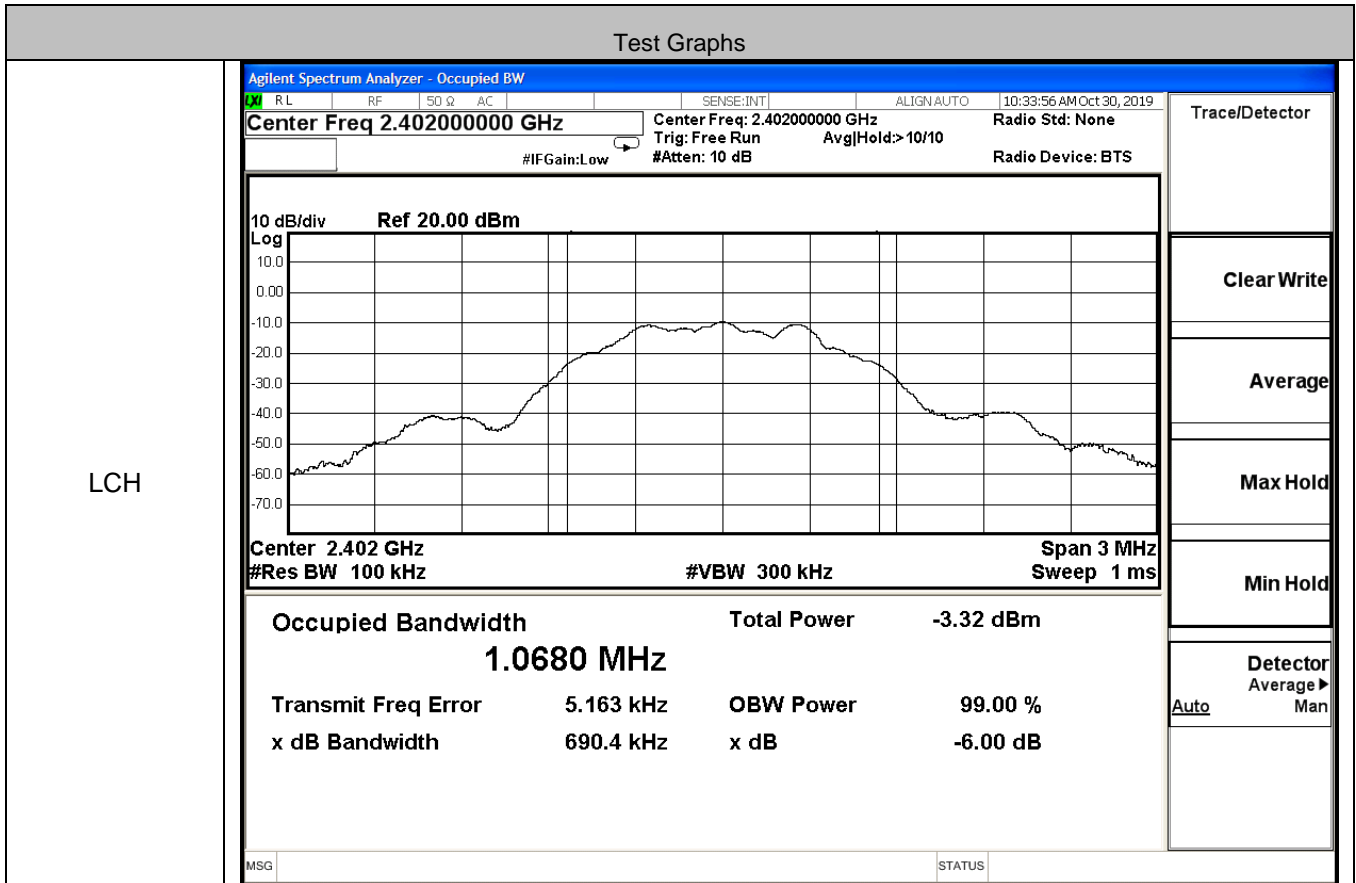


HCH

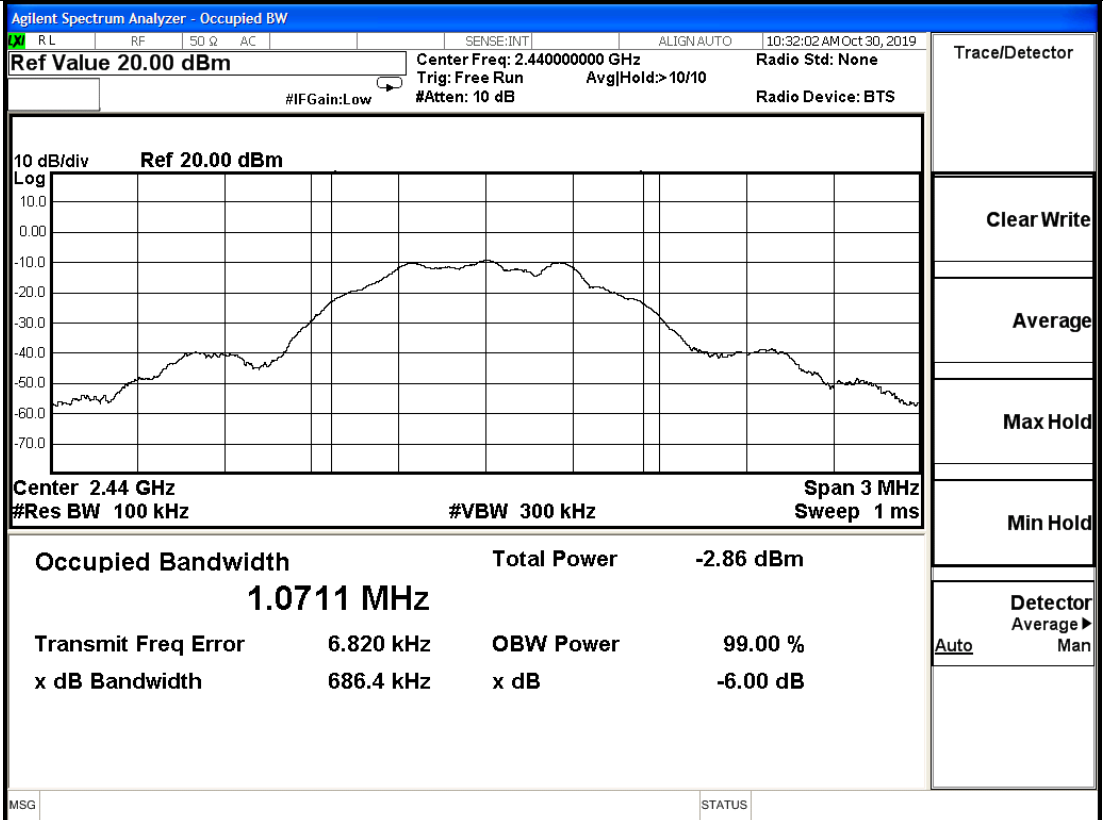


### A.4 6dB Bandwidth and Occupied Bandwidth

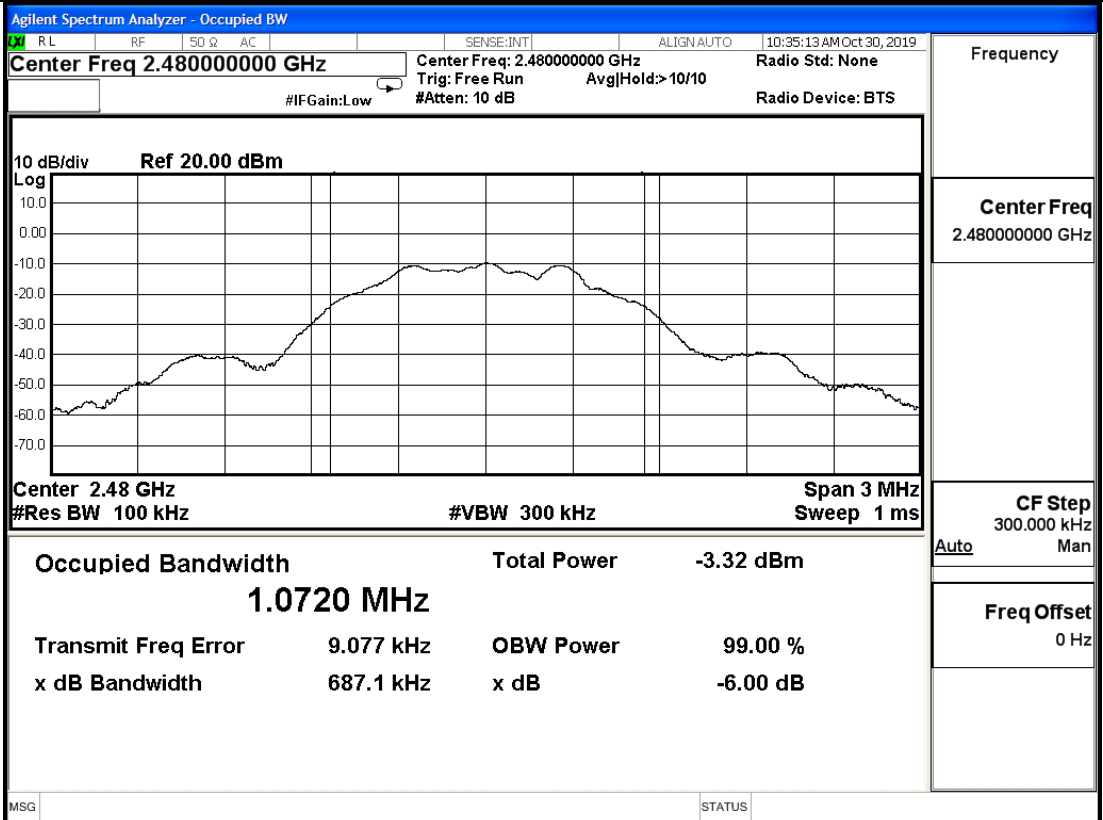
Mode	Channel	Occupied Bandwidth [MHz]	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.0680	0.6904	≥0.5	PASS
BT LE	MCH	1.0711	0.6864	≥0.5	PASS
BT LE	HCH	1.0720	0.6871	≥0.5	PASS



MCH



HCH



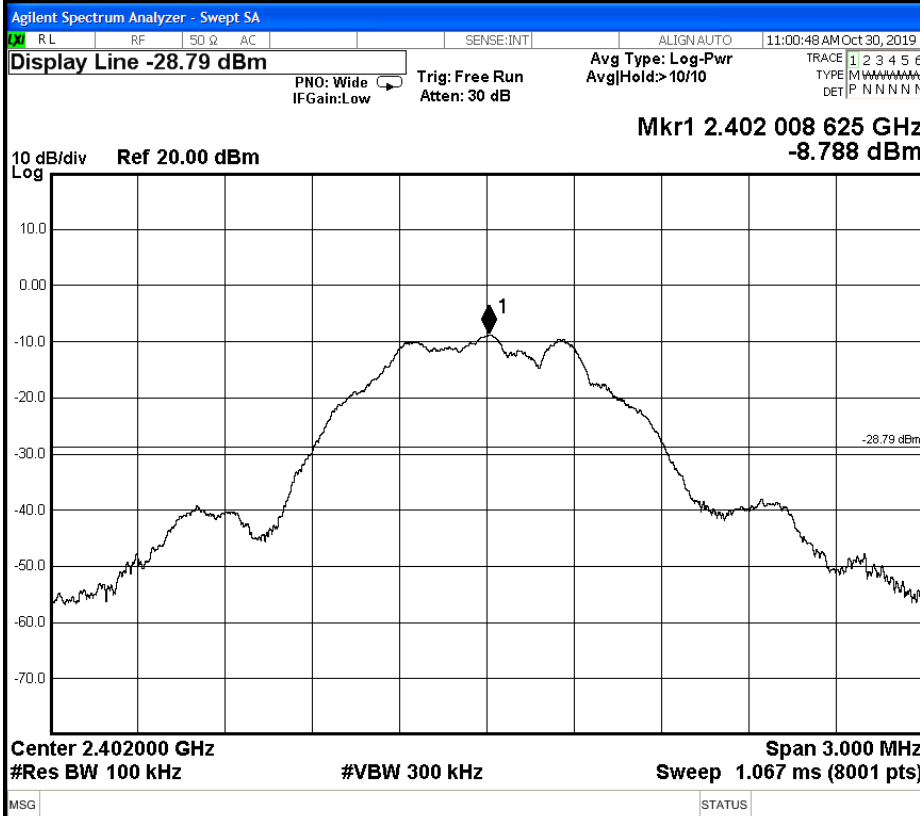
**A.6 RF Conducted Spurious Emissions**

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-8.788	-48.757	-28.79	PASS
BT LE	MCH	-9.166	-48.052	-29.17	PASS
BT LE	HCH	-8.999	-49.076	-29.00	PASS



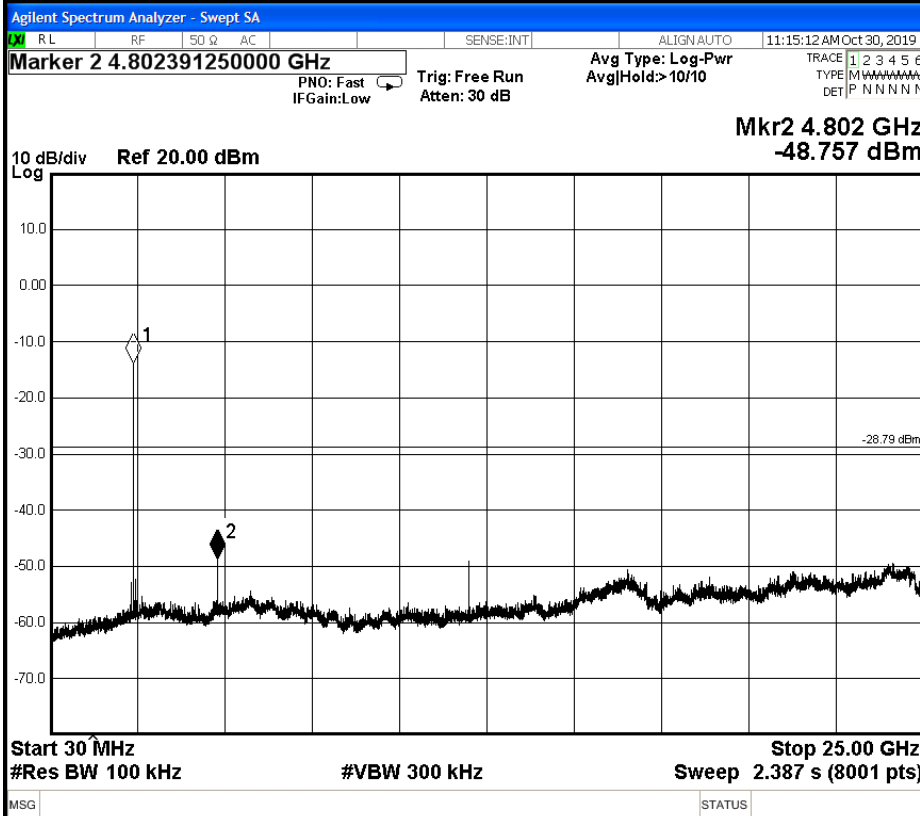
BT LE\_LCH\_Graphs

Pref/BT LE/LCH



- Display
- Annotation▶
- Title▶
- Graticule On Off
- Display Line -28.79 dBm On Off
- System Display▶ Settings

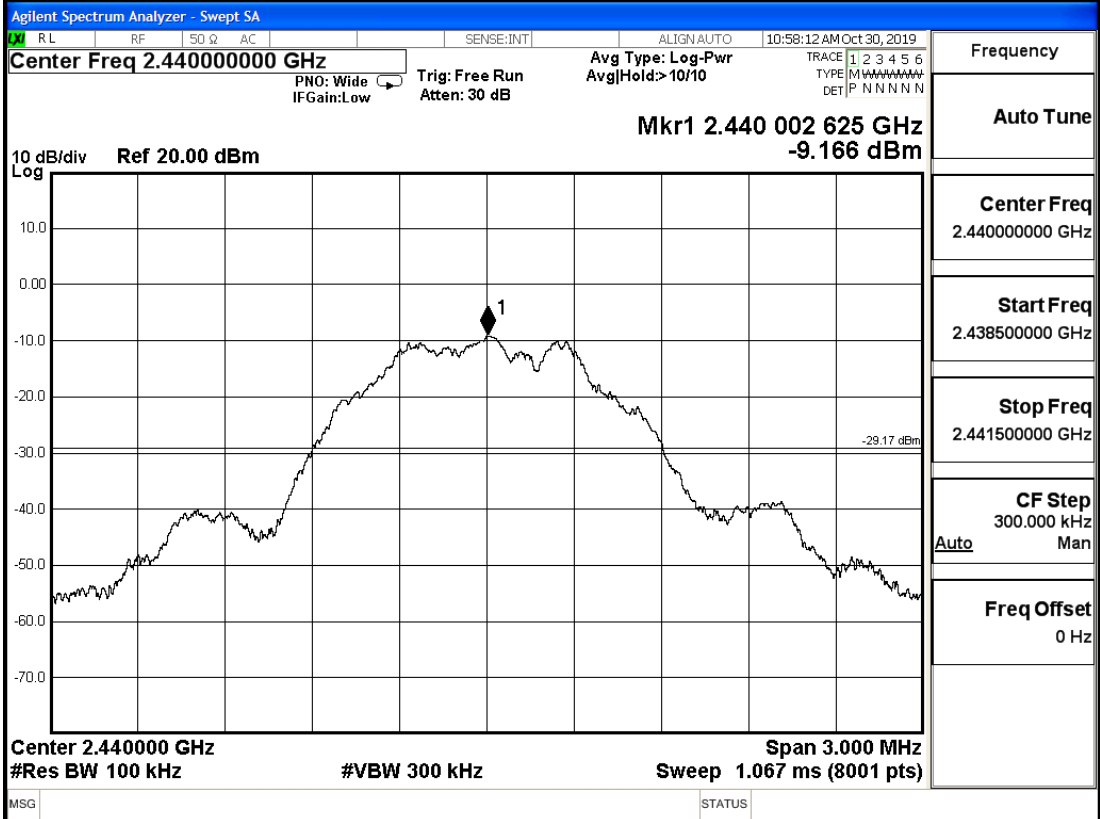
Puw/BT LE/LCH



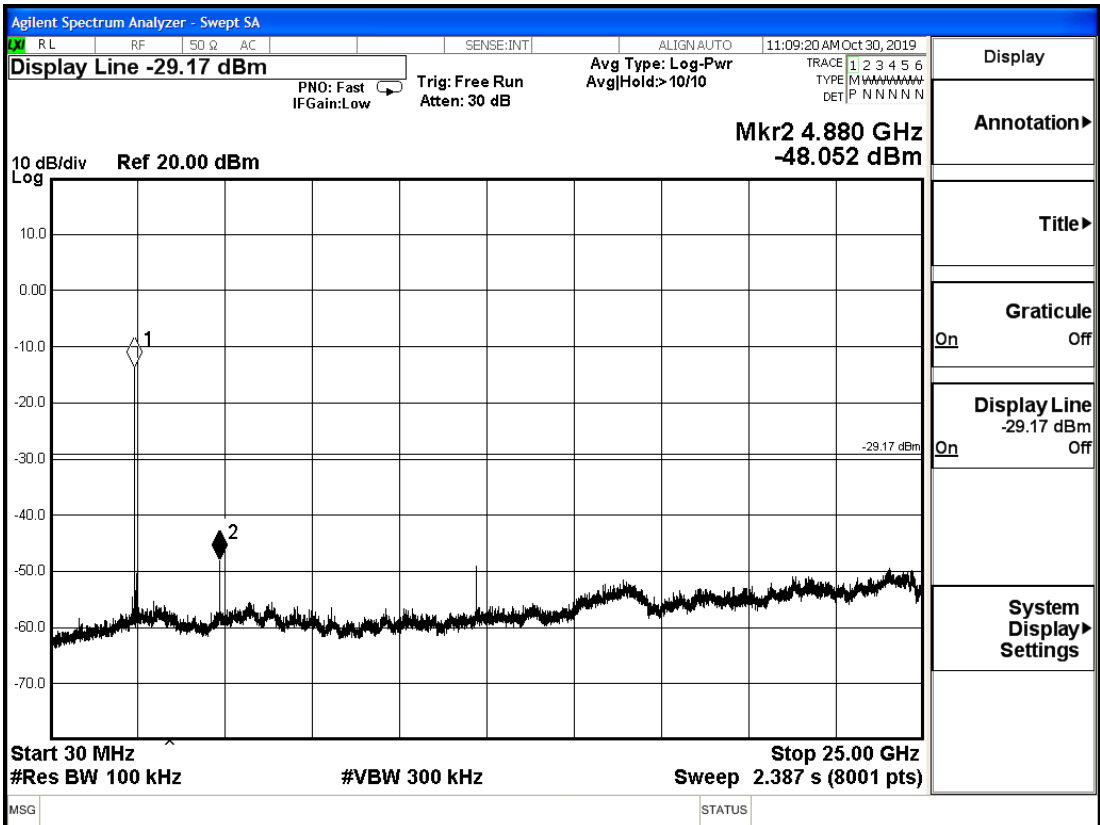
- Peak Search
- Next Peak
- Next Pk Right
- Next Pk Left
- Marker Delta
- Mkr→CF
- Mkr→Ref Lvl
- More 1 of 2

BT LE\_MCH\_Graphs

Pref/BT LE/MCH

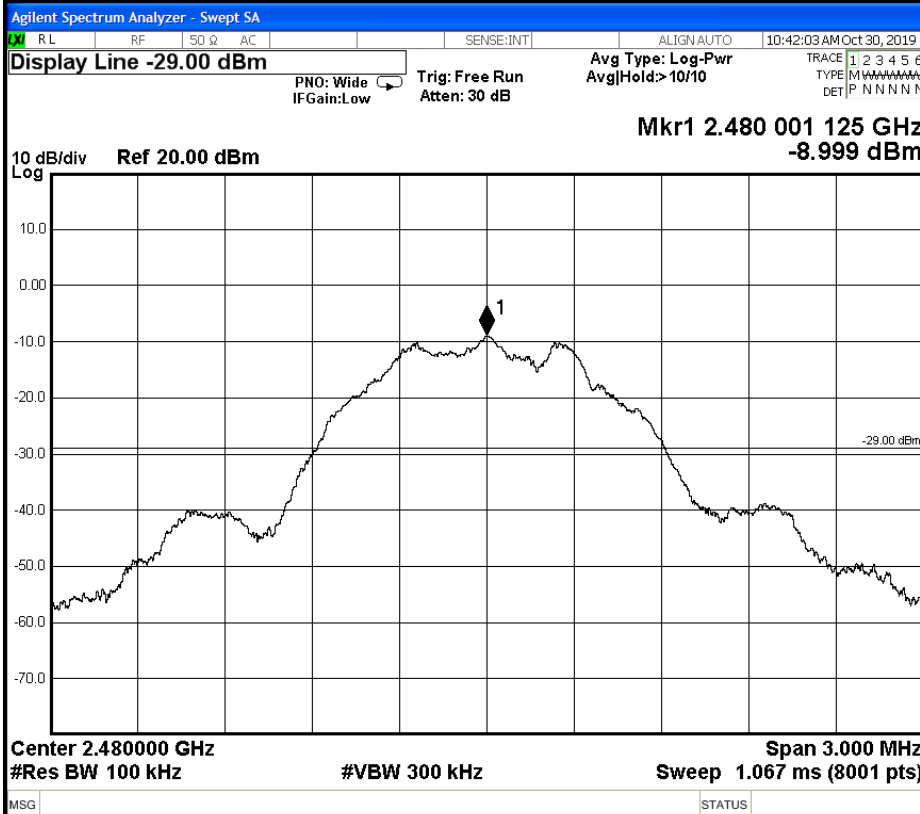


Puw/BT LE/MCH



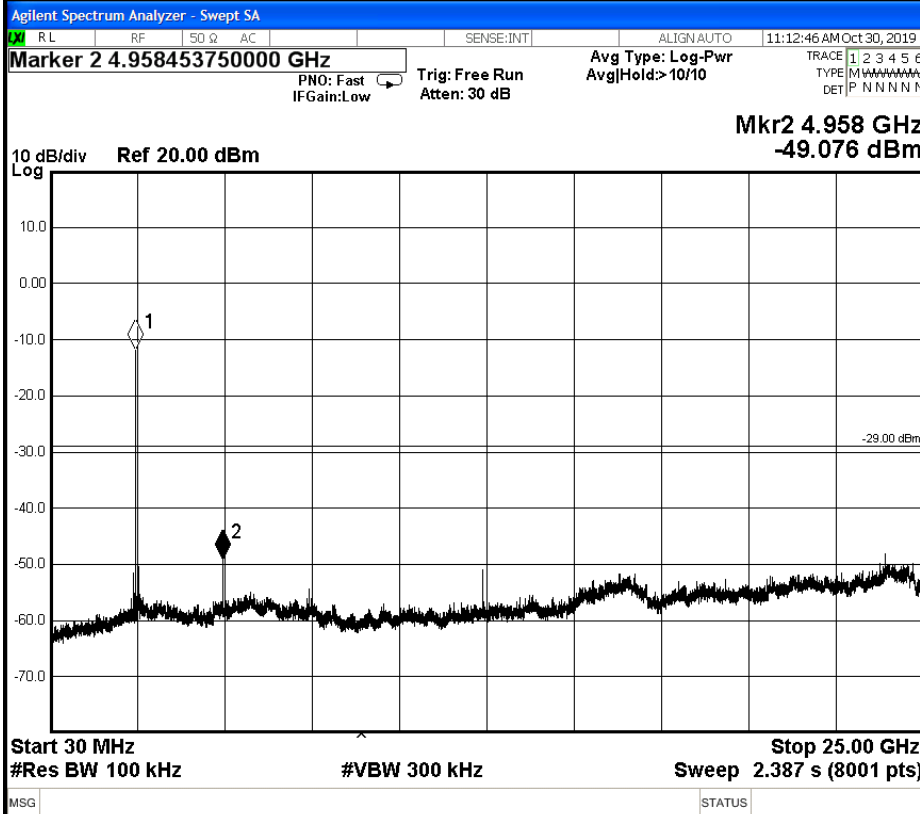
BT LE\_HCH\_Graphs

Pref/BT LE/HCH



- Display
- Annotation▶
- Title▶
- Graticule On Off
- Display Line -29.00 dBm On Off
- System Display▶ Settings

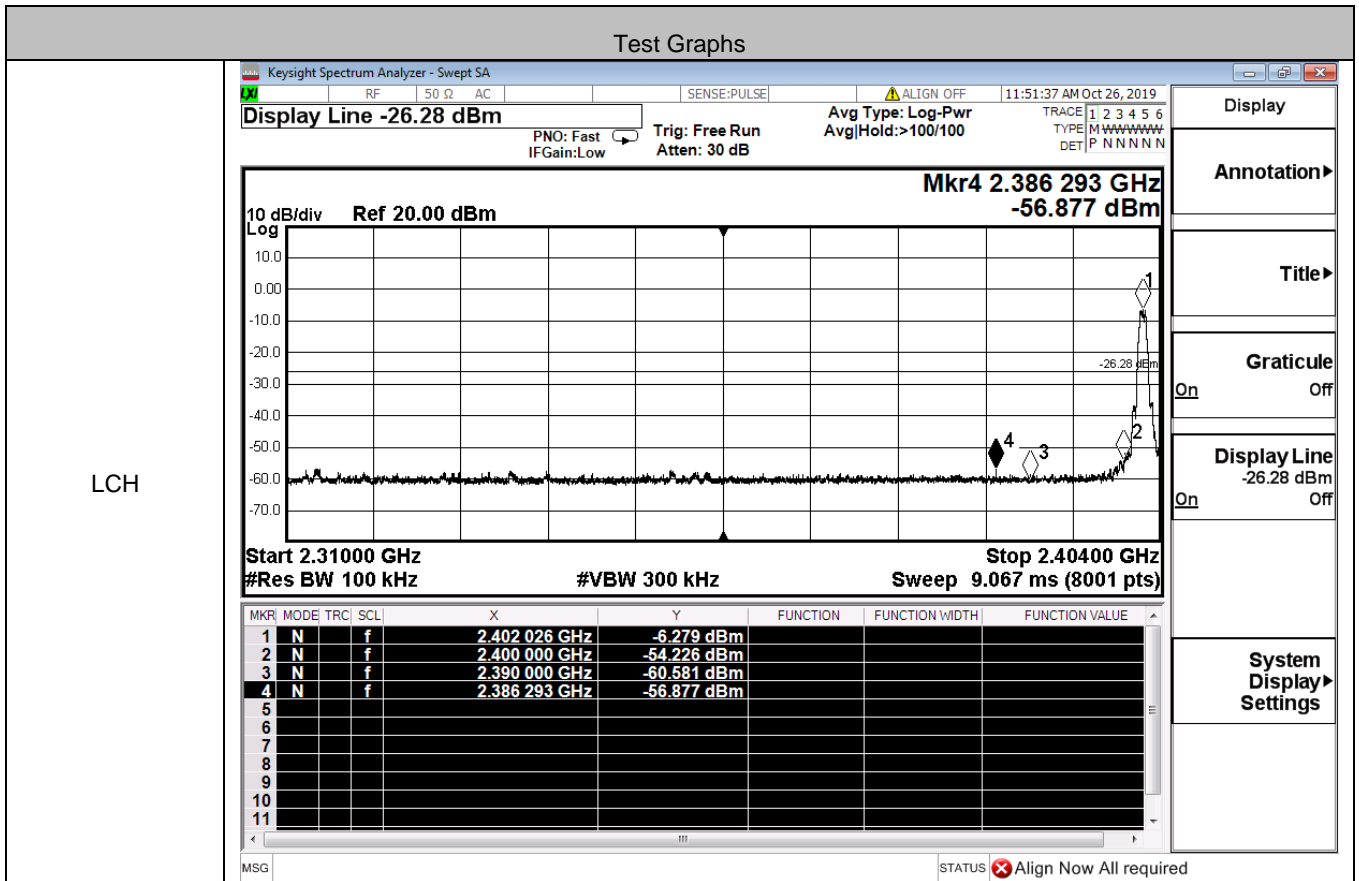
Puw/BT LE/HCH



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

### A.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-6.279	-54.226	-26.28	PASS
BT LE	HCH	-7.002	-56.939	-27.00	PASS

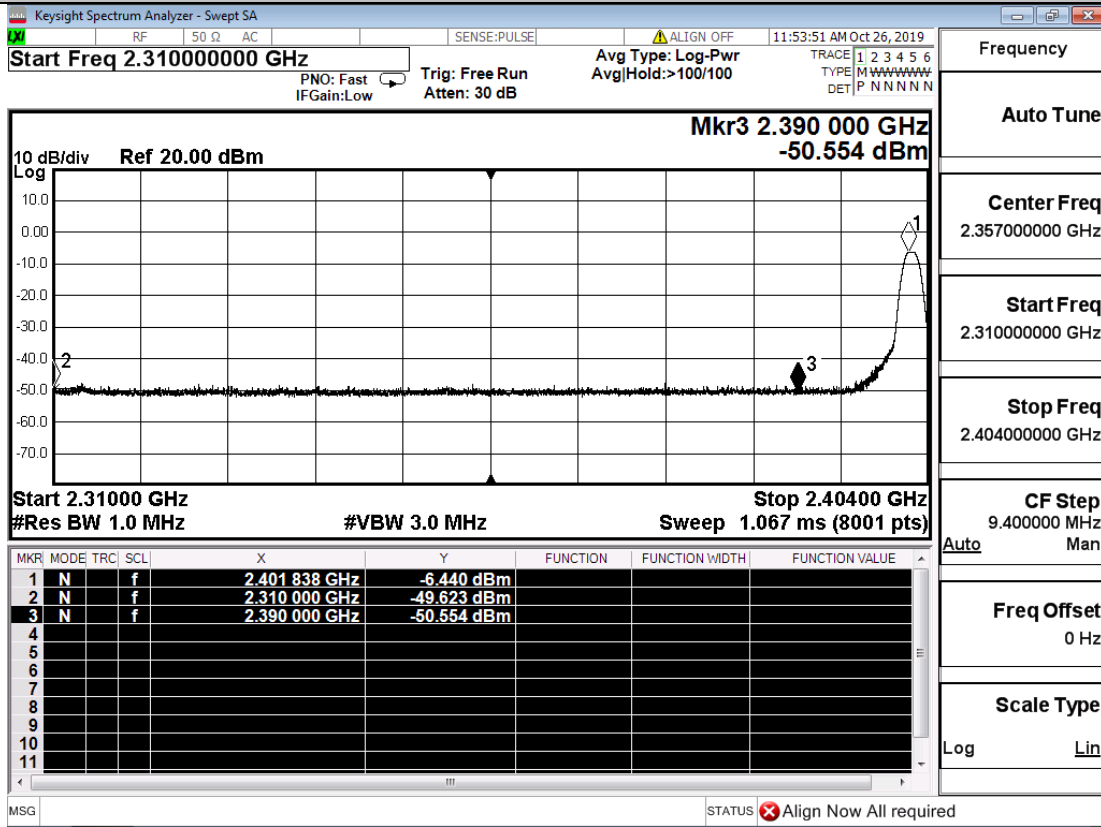




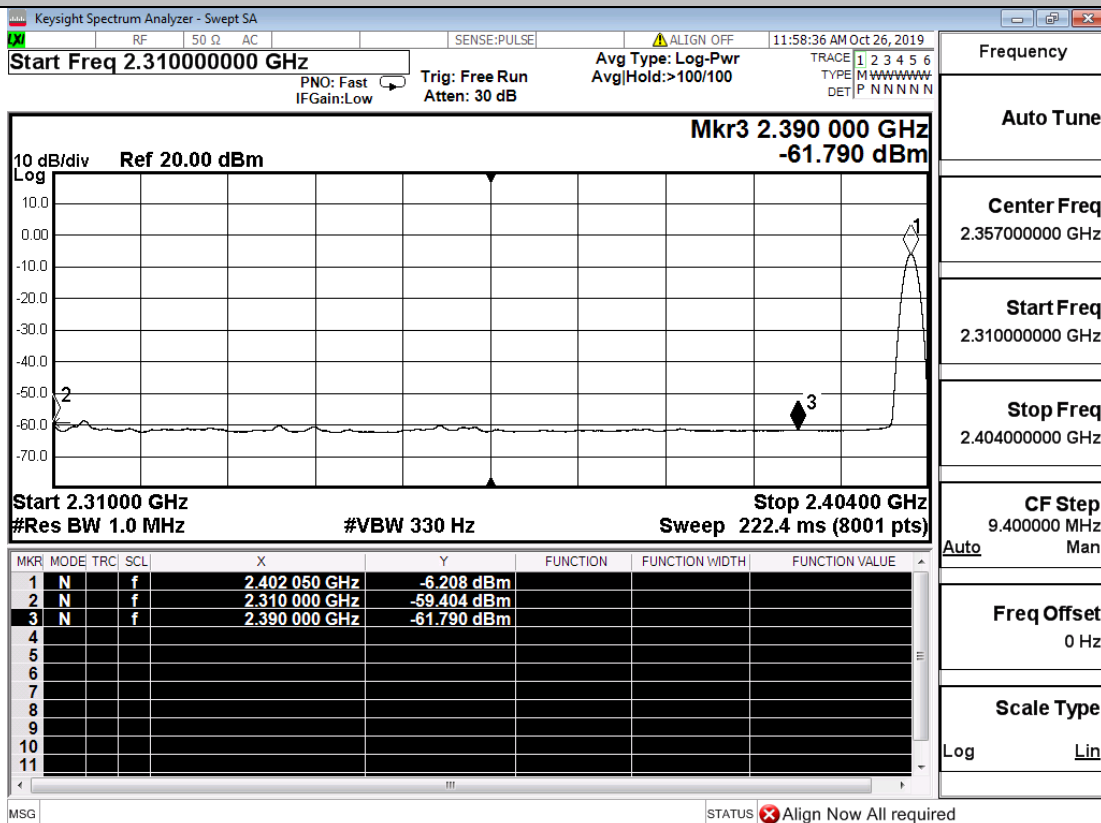
## A.8 Restrict-band band-edge measurements

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	-49.623	2.41	0	48.02	PEAK	74	PASS
		Ant1	2310.0	-59.404	2.41	0	38.24	AV	54	PASS
		Ant1	2390.0	-50.554	2.41	0	47.09	PEAK	74	PASS
		Ant1	2390.0	-61.790	2.41	0	35.85	AV	54	PASS
	2480	Ant1	2483.5	-50.174	2.41	0	47.47	PEAK	74	PASS
		Ant1	2483.5	-61.078	2.41	0	36.56	AV	54	PASS
		Ant1	2500.0	-49.656	2.41	0	47.98	PEAK	74	PASS
		Ant1	2500.0	-61.427	2.41	0	36.21	AV	54	PASS

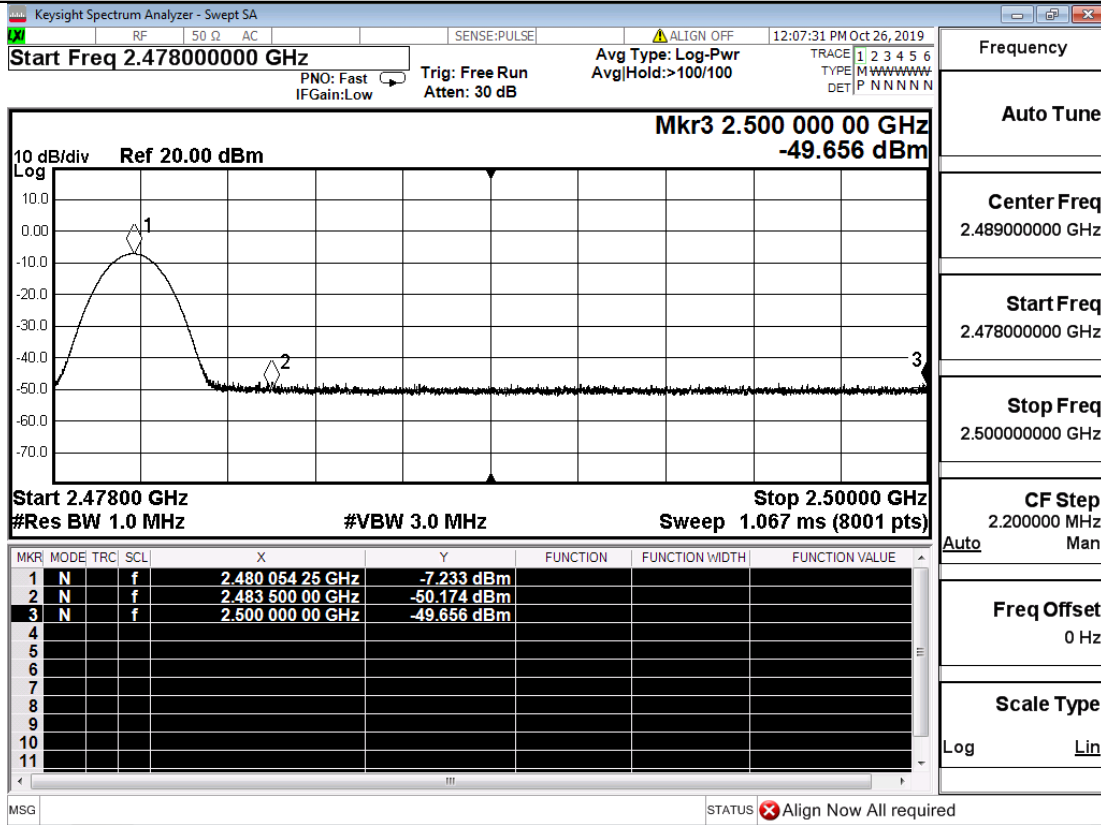
Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_PEAK



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

