

## Appendix B

### RF Test Data for BT V4.2(LE) (Conducted Measurement)

Product Name: LUMI-ELFI

Trade Mark: KINOFI

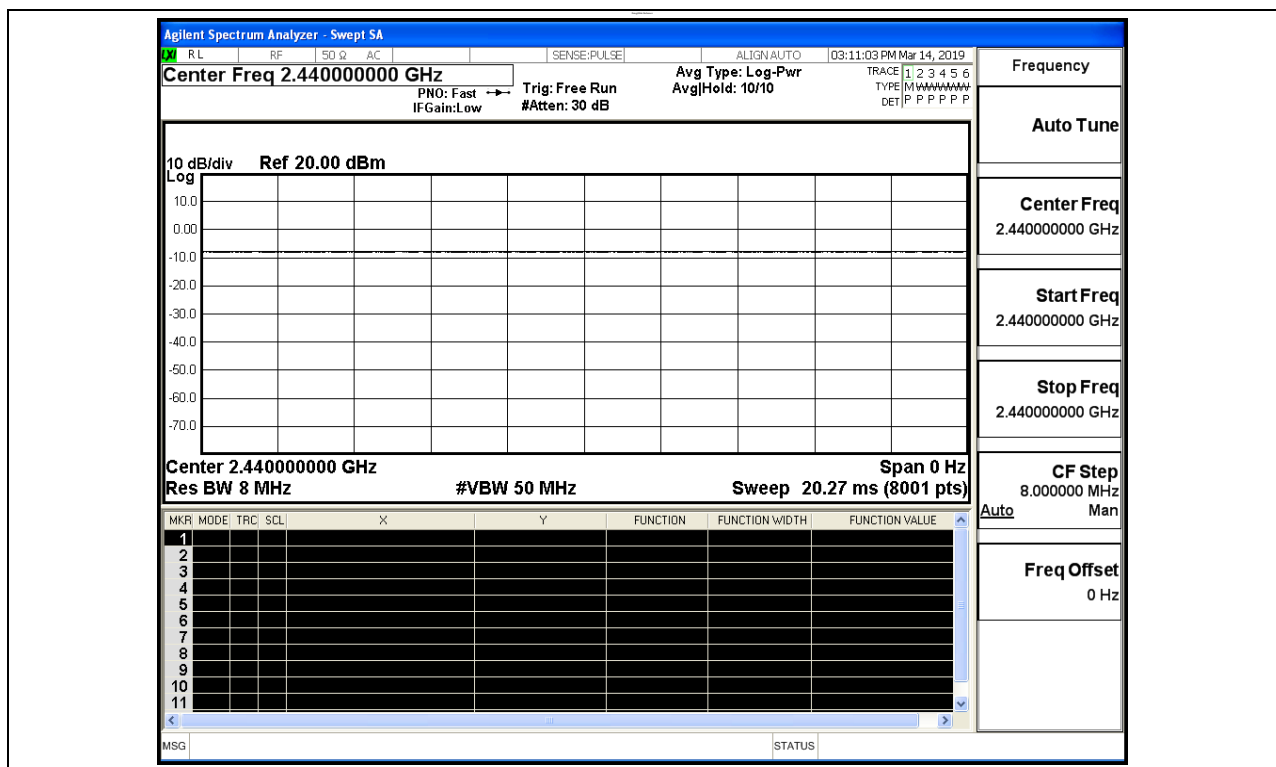
Test Model: LE12019001C

#### Environmental Conditions

Temperature:	24.5 ° C
Relative Humidity:	53.8%
ATM Pressure:	100.0 kPa
Test Engineer:	David.Luo
Supervised by:	Tom.Liu

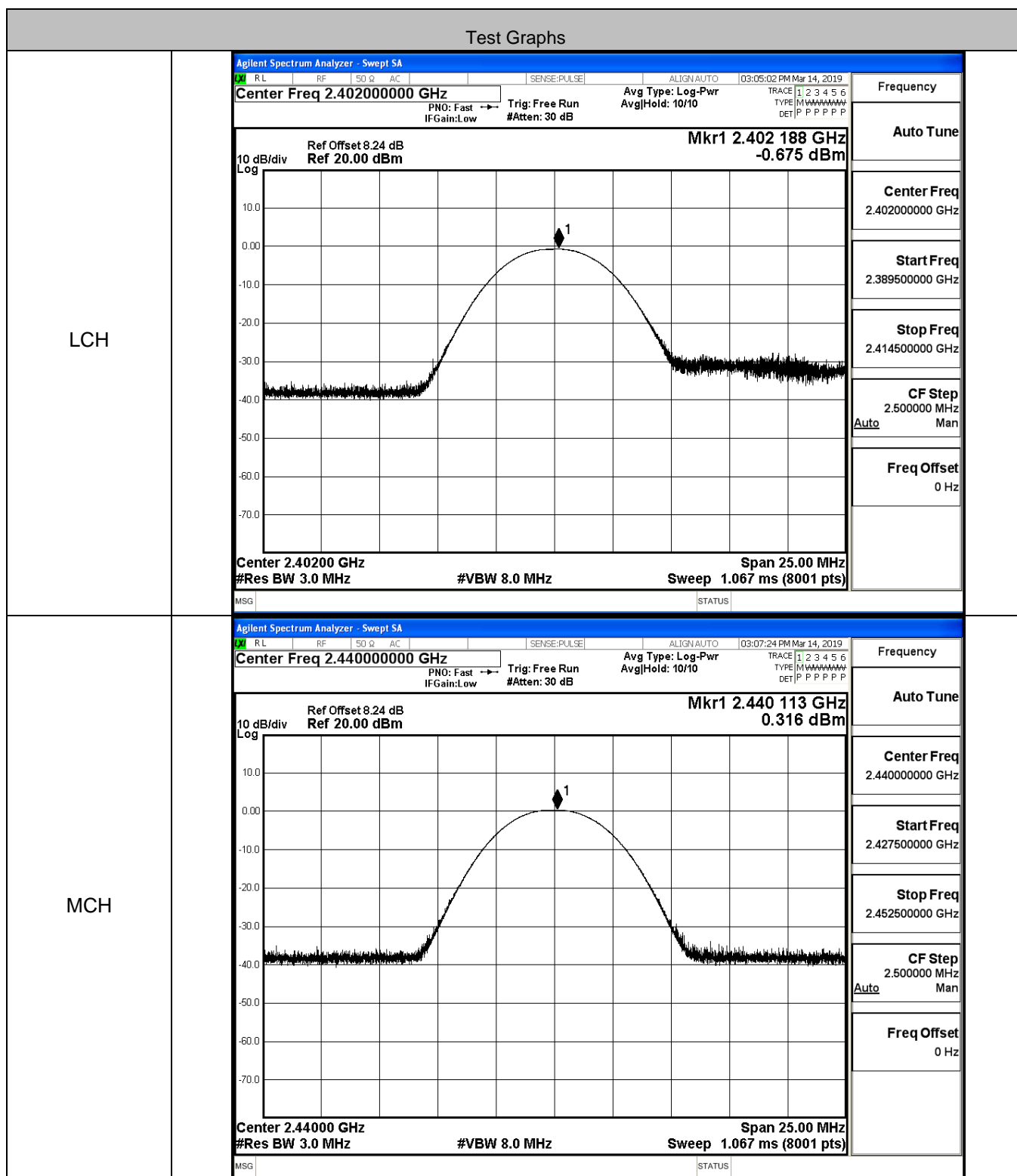
#### B.1 Duty Cycle

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

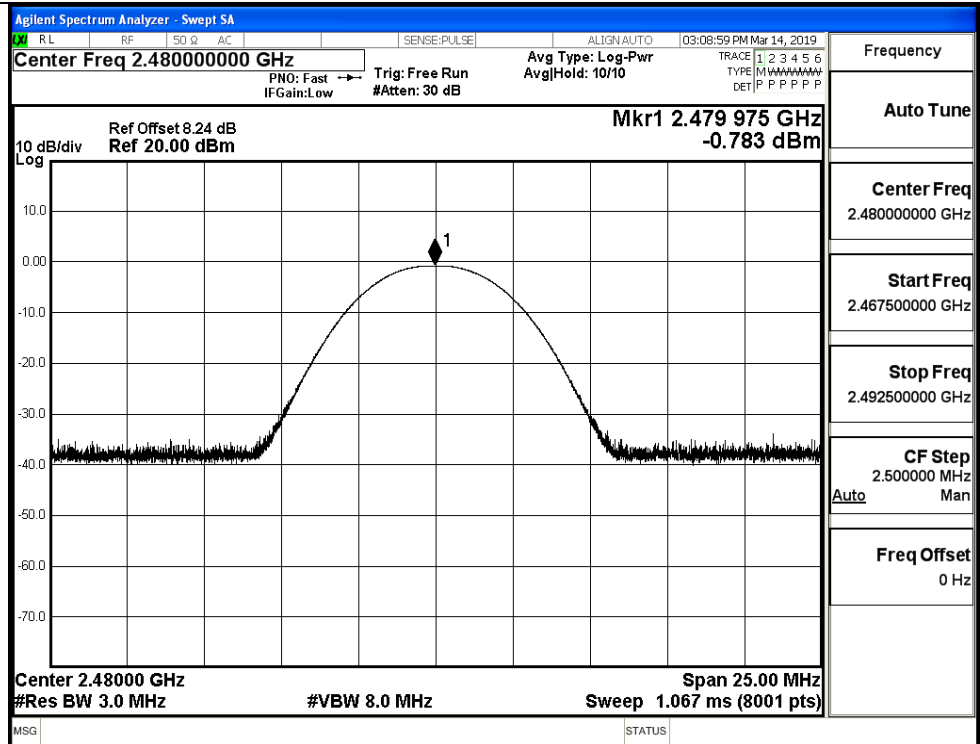


## B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.675	30	PASS
BT LE	MCH	0.316	30	PASS
BT LE	HCH	-0.783	30	PASS



HCH

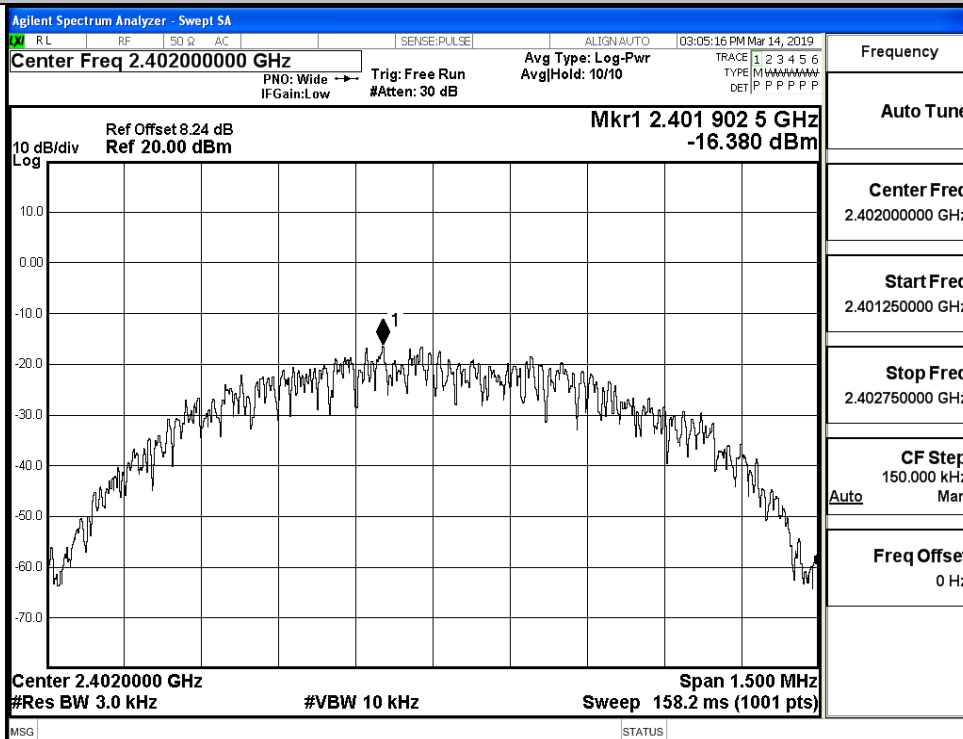


## B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-16.380	8	PASS
BT LE	MCH	-14.702	8	PASS
BT LE	HCH	-15.865	8	PASS

## Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.402000000 GHz

Start Freq

2.401250000 GHz

Stop Freq

2.402750000 GHz

CF Step

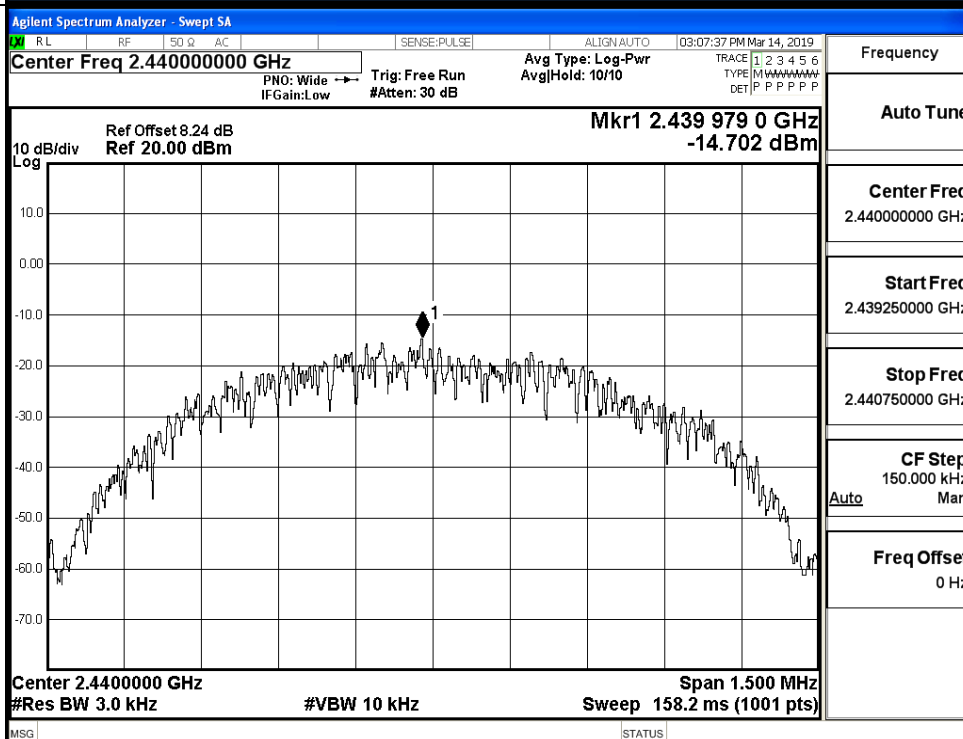
150.000 kHz

Auto

Freq Offset

0 Hz

MCH



Frequency

Auto Tune

Center Freq

2.440000000 GHz

Start Freq

2.439250000 GHz

Stop Freq

2.440750000 GHz

CF Step

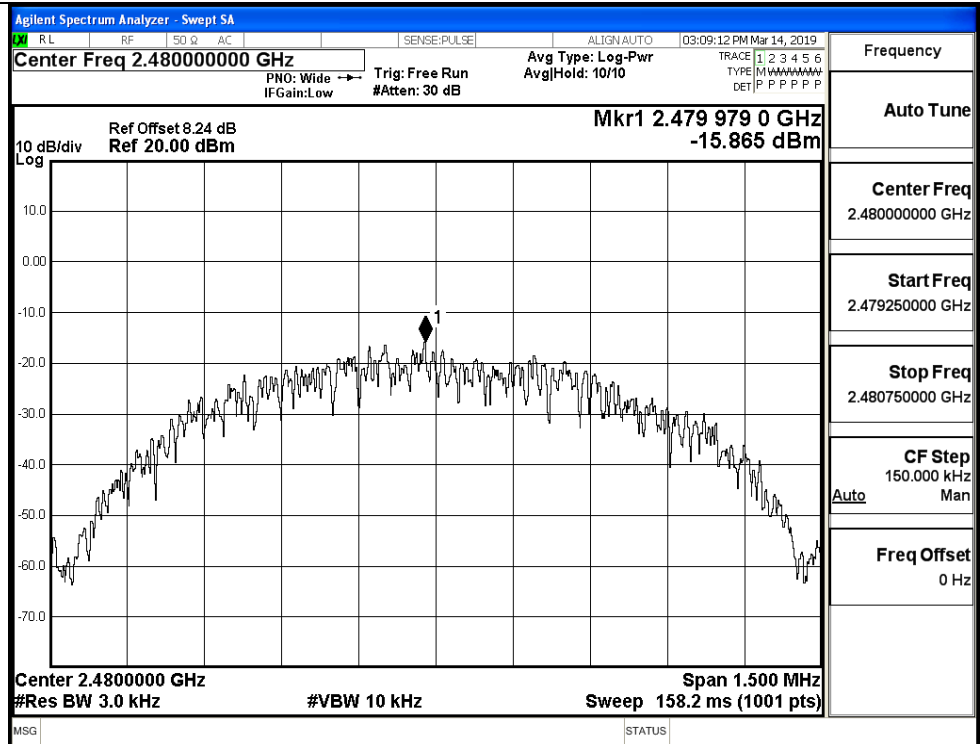
150.000 kHz

Auto

Freq Offset

0 Hz

HCH

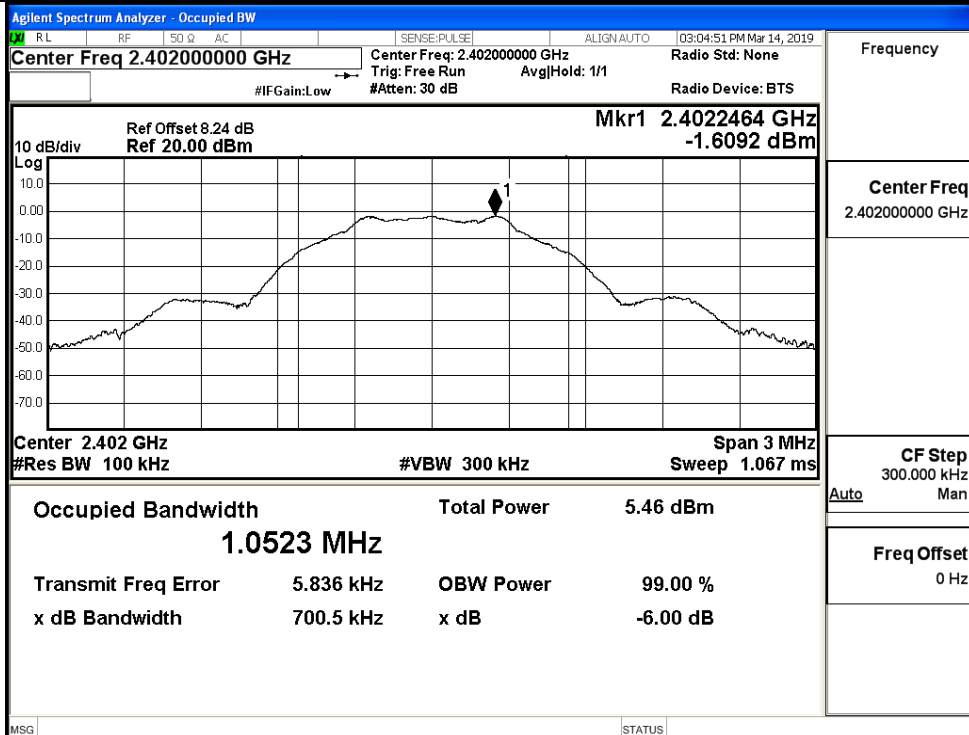


## B.4 6dB Bandwidth

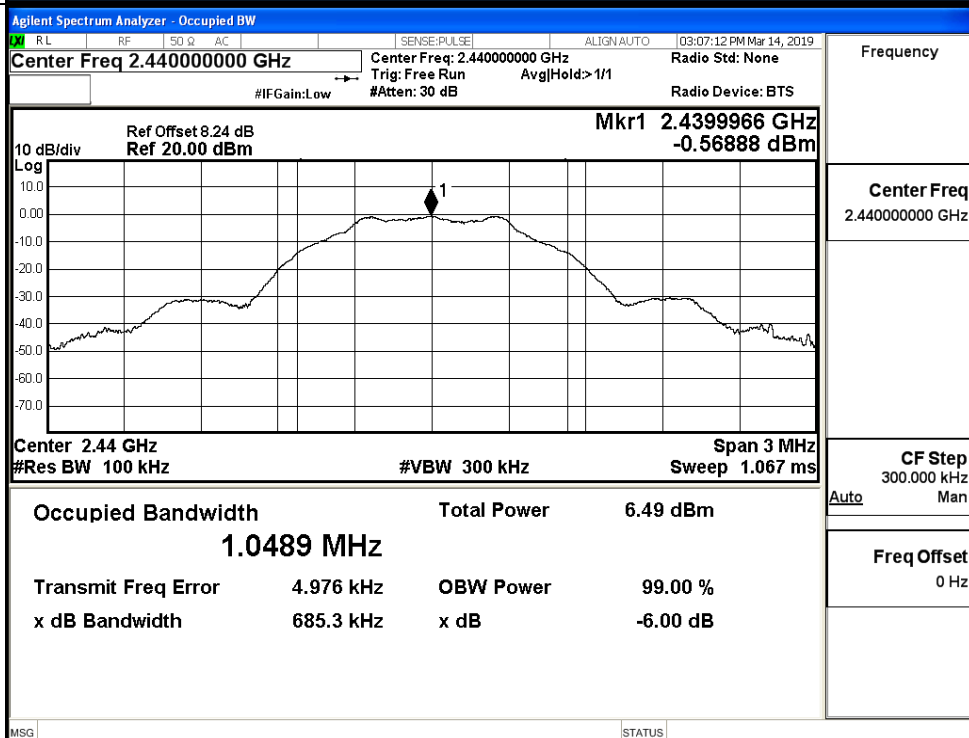
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7005	$\geq 0.5$	PASS
BT LE	MCH	0.6853	$\geq 0.5$	PASS
BT LE	HCH	0.6965	$\geq 0.5$	PASS

## Test Graphs

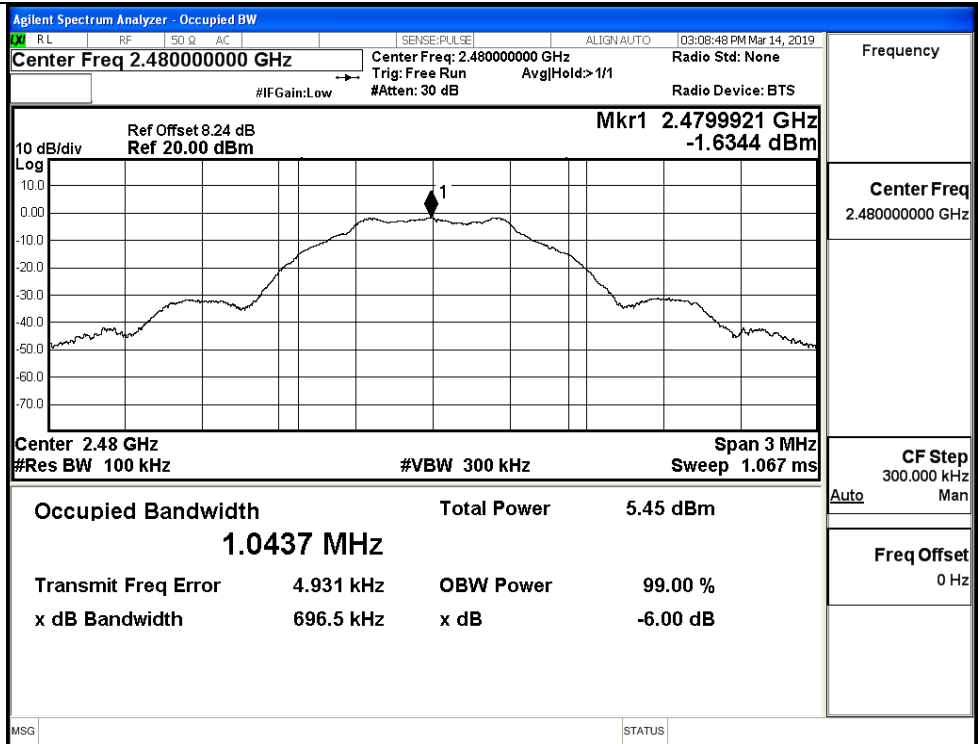
LCH



MCH



HCH

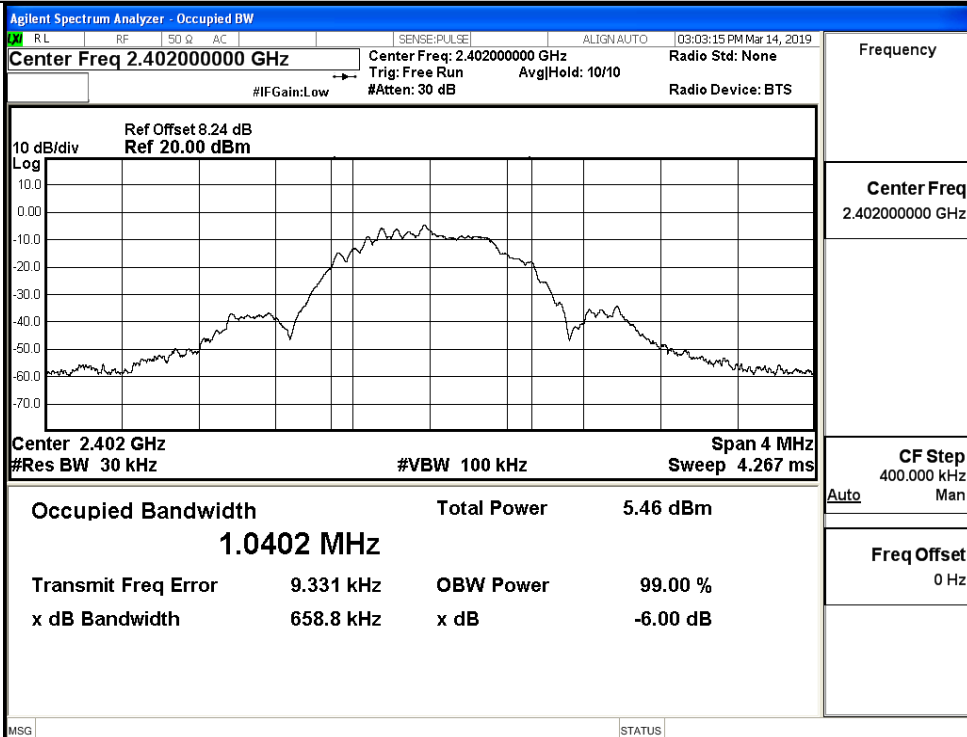


## B.5 Occupied Bandwidth

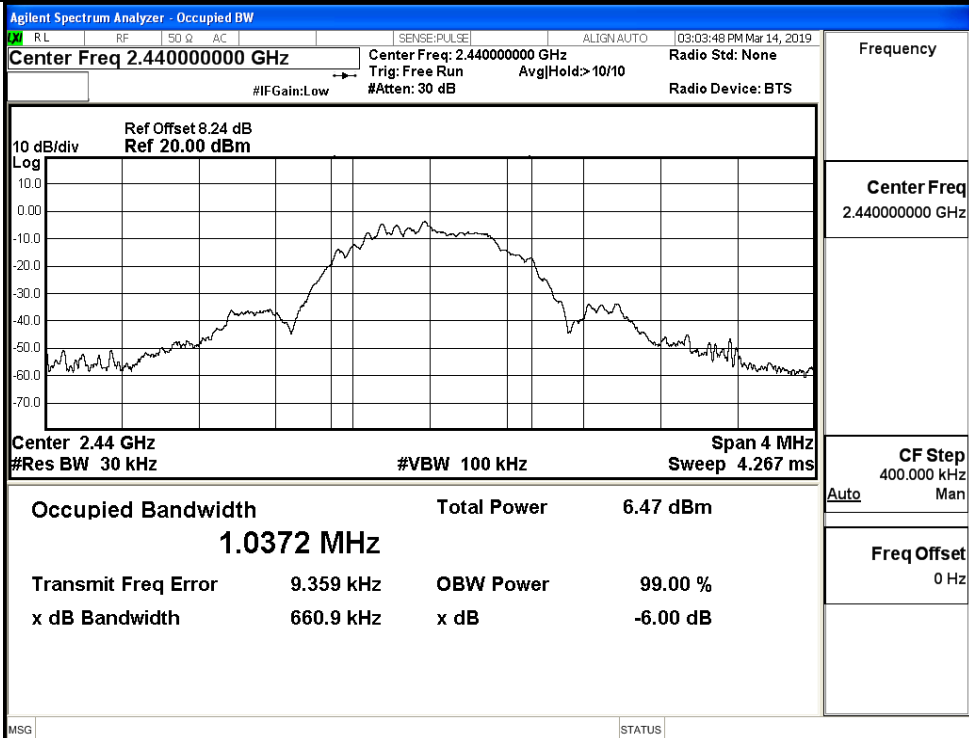
Mode	Channel	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.0402	$\geq 0.5$	PASS
BT LE	MCH	1.0372	$\geq 0.5$	PASS
BT LE	HCH	1.0341	$\geq 0.5$	PASS

## Test Graphs

LCH

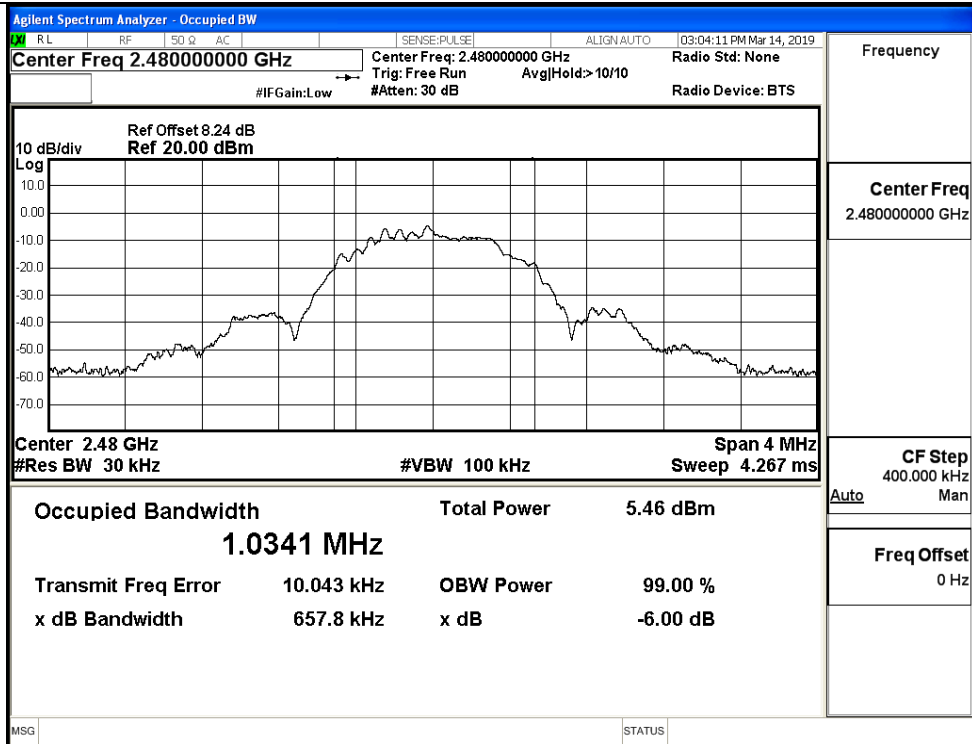


MCH





HCH

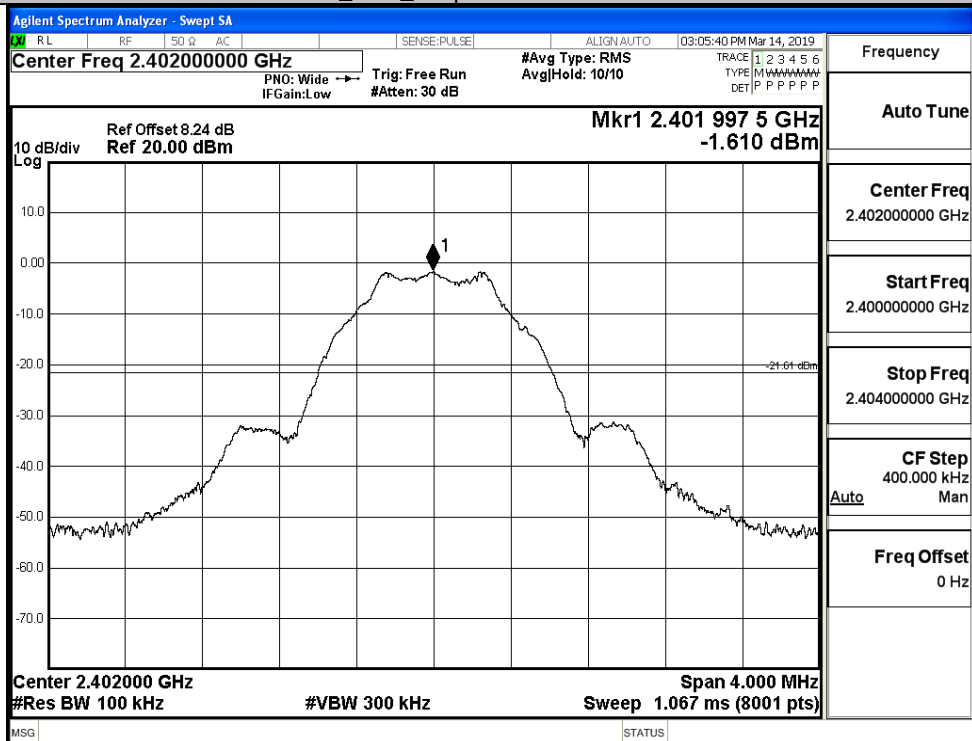


## B.6 RF Conducted Spurious Emissions

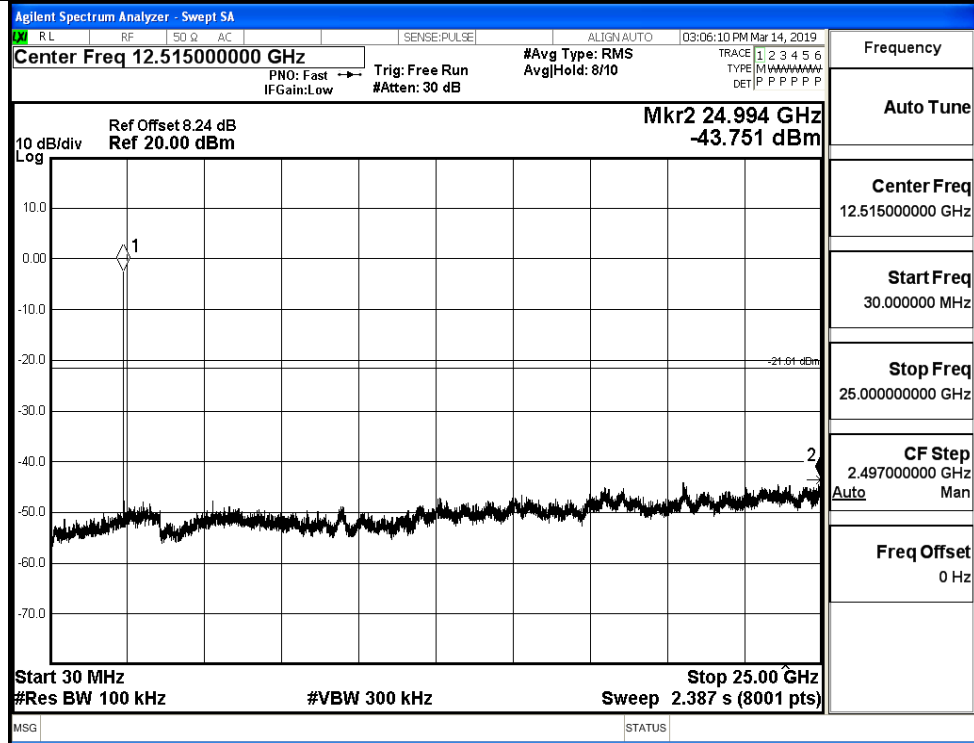
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.61	-43.751	-21.610	PASS
BT LE	MCH	-0.528	-43.170	-20.528	PASS
BT LE	HCH	-1.64	-43.960	-21.640	PASS

BT LE\_LCH\_Graphs

Pref/BT LE/LCH

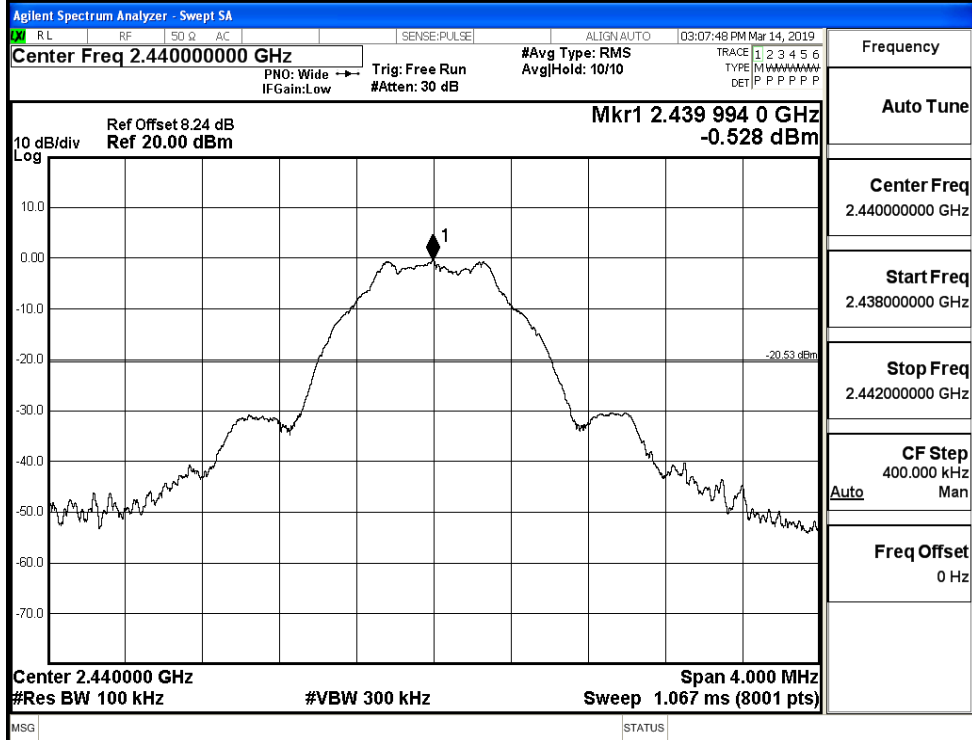


Puw/BT LE/LCH

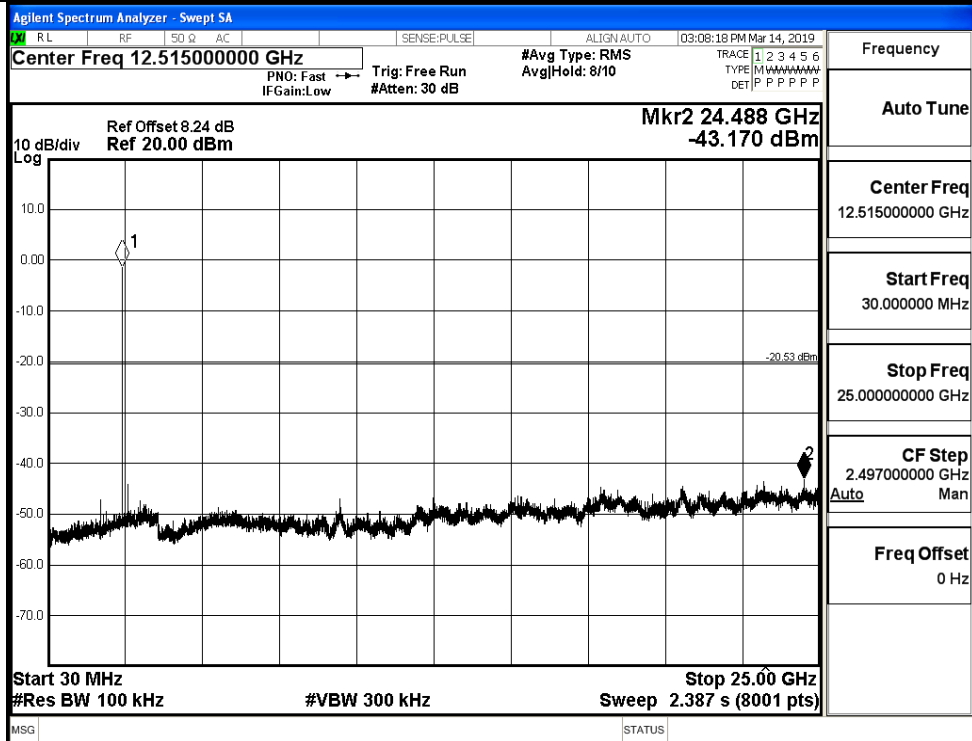


## BT LE\_MCH\_Graphs

Pref/BT LE/MCH

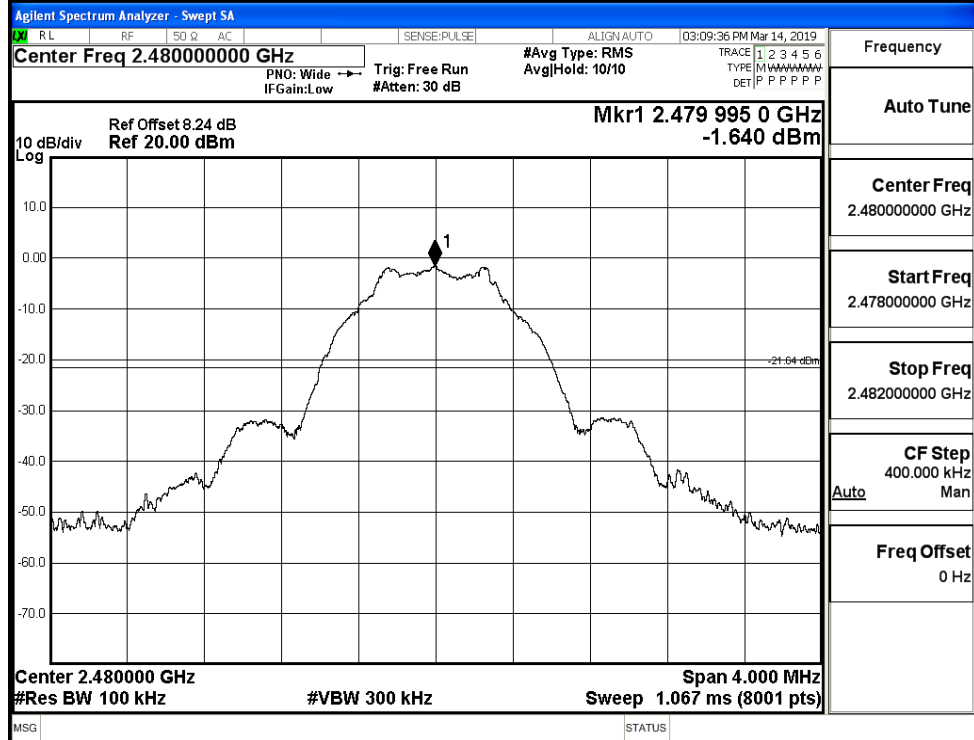


Puw/BT LE/MCH

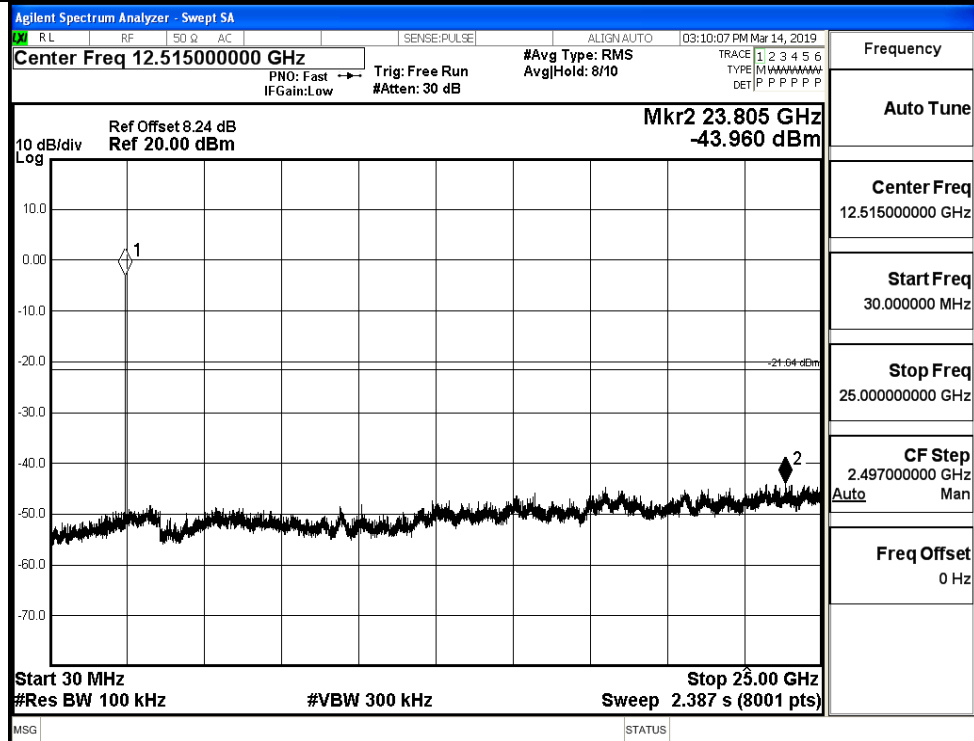


## BT LE\_HCH\_Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

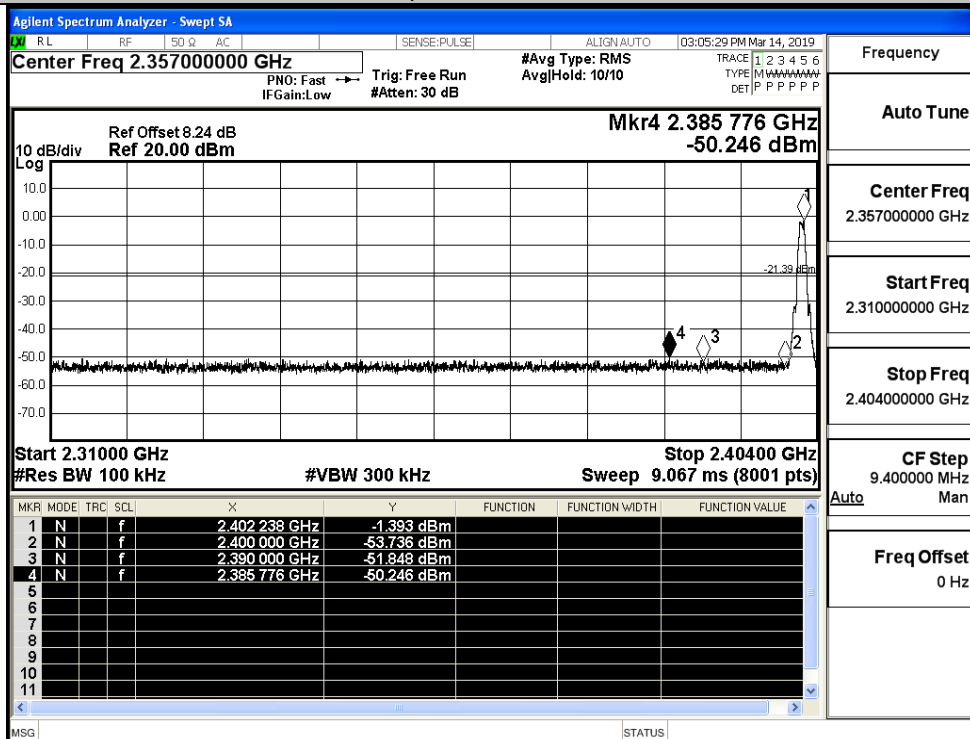


## B.7 Band-edge for RF Conducted Emissions

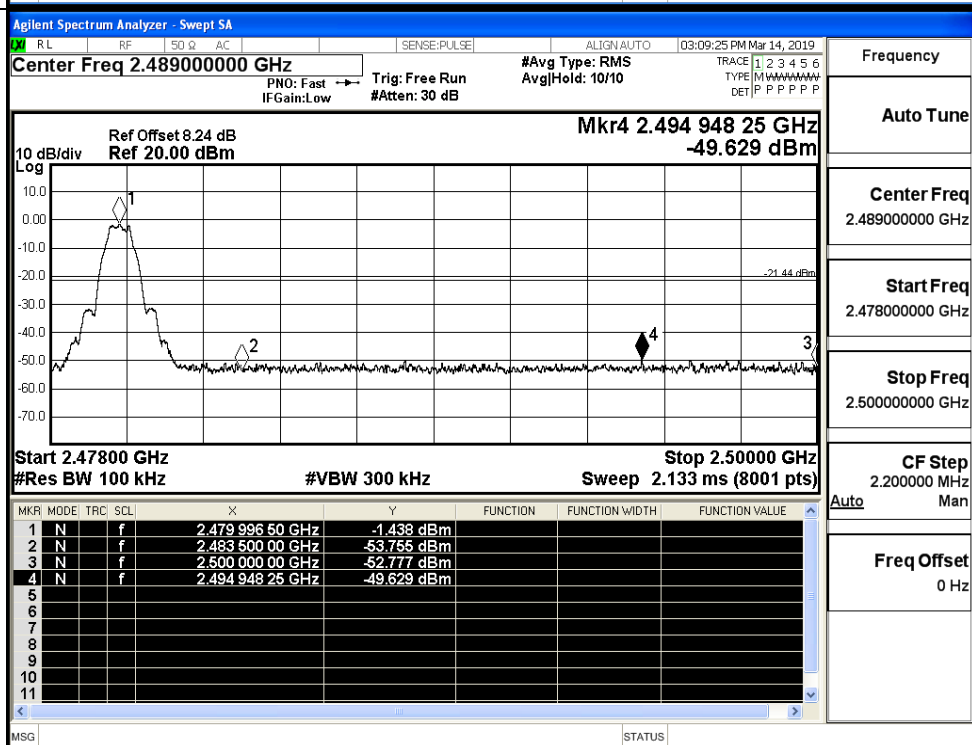
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.393	-50.246	-21.39	PASS
BT LE	HCH	-1.438	-49.629	-21.44	PASS

## Test Graphs

LCH



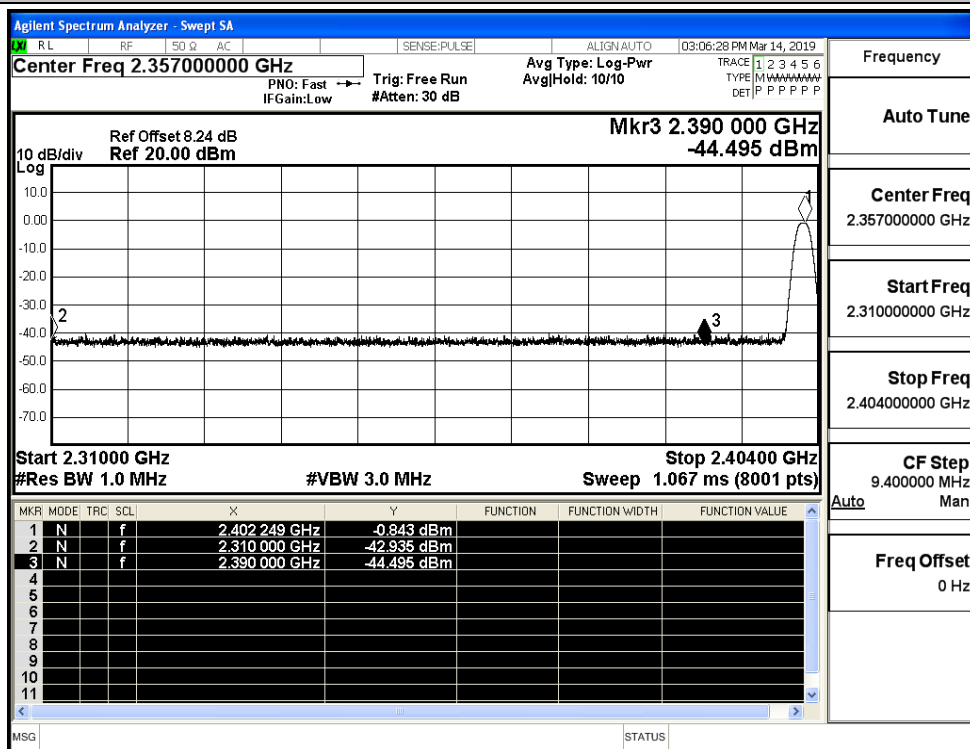
HCH



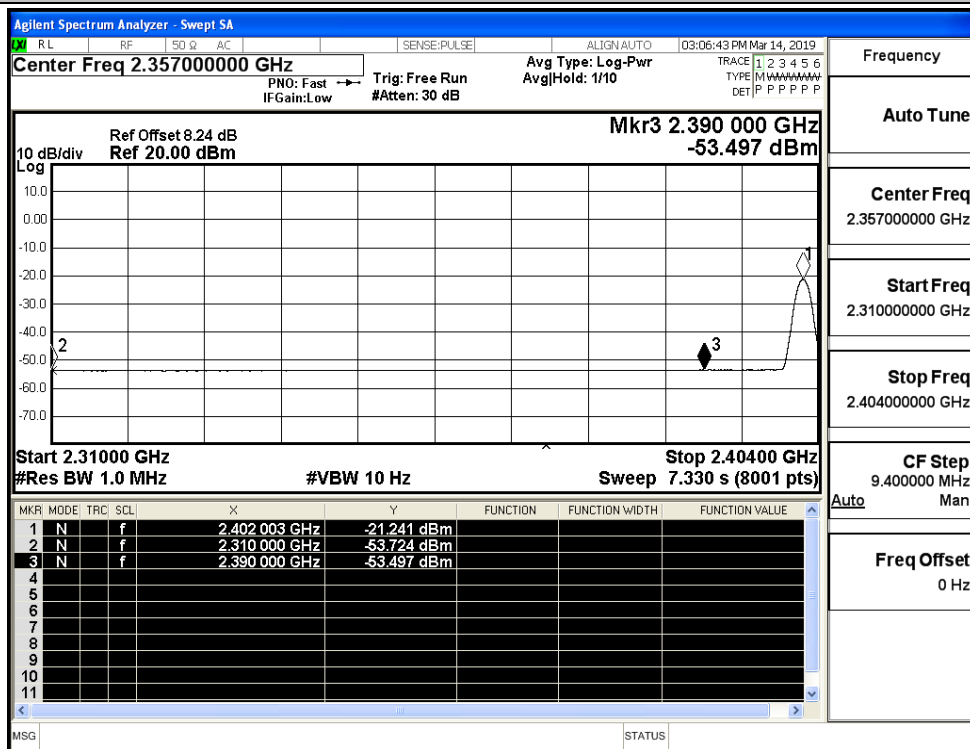
## B.8 Restrict-band band-edge measurements

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	-42.94	5.0	0	57.32	PEAK	74	PASS
		Ant1	2310.0	-53.72	5.0	0	46.54	AV	54	PASS
		Ant1	2390.0	-44.50	5.0	0	55.76	PEAK	74	PASS
		Ant1	2390.0	-53.50	5.0	0	46.76	AV	54	PASS
	2480	Ant1	2483.5	-41.45	5.0	0	58.81	PEAK	74	PASS
		Ant1	2483.5	-53.27	5.0	0	46.99	AV	54	PASS
		Ant1	2500.0	-42.09	5.0	0	58.17	PEAK	74	PASS
		Ant1	2500.0	-53.17	5.0	0	47.09	AV	54	PASS

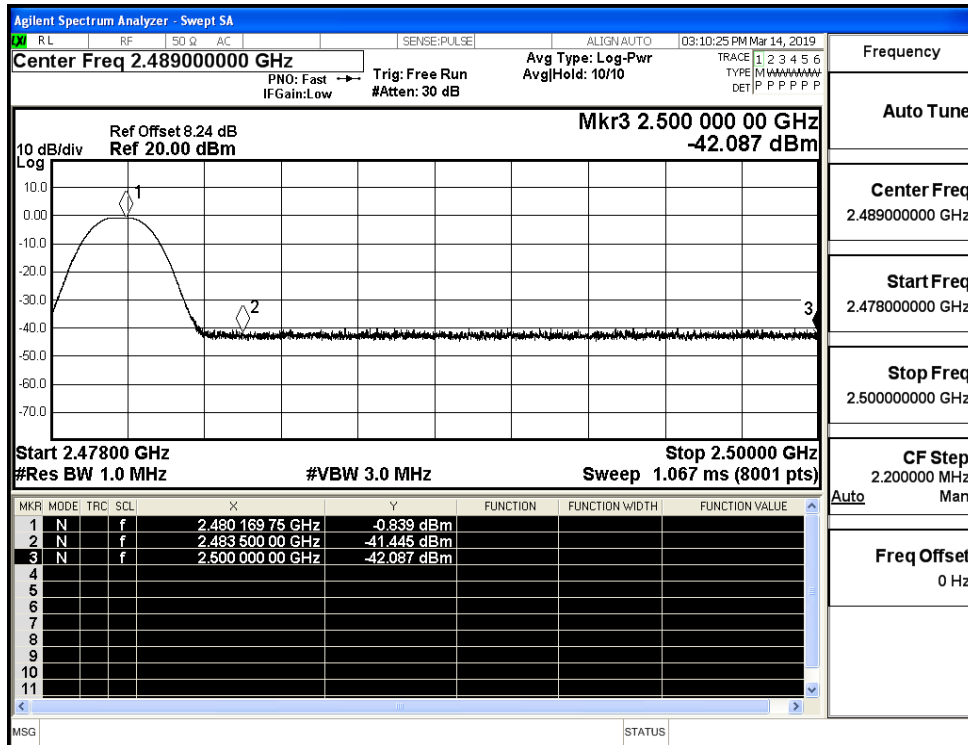
## Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_PEAK



## 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

