

**Appendix B**  
**RF Test Data for BT V4.0(BT LE) (Conducted Measurement)**

Product Name: Mishiko Collar

Trade Mark: MISHIKO

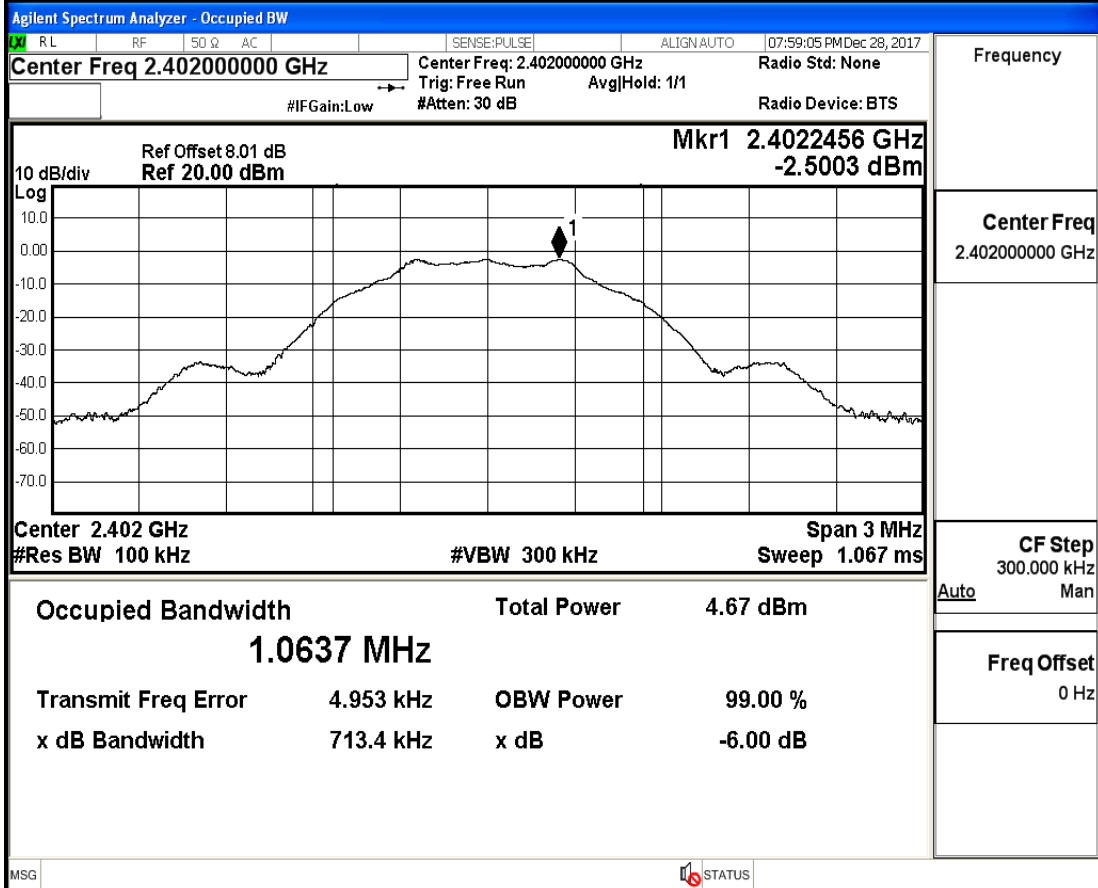
Test Model: M103

FCC ID: 2AID9M103

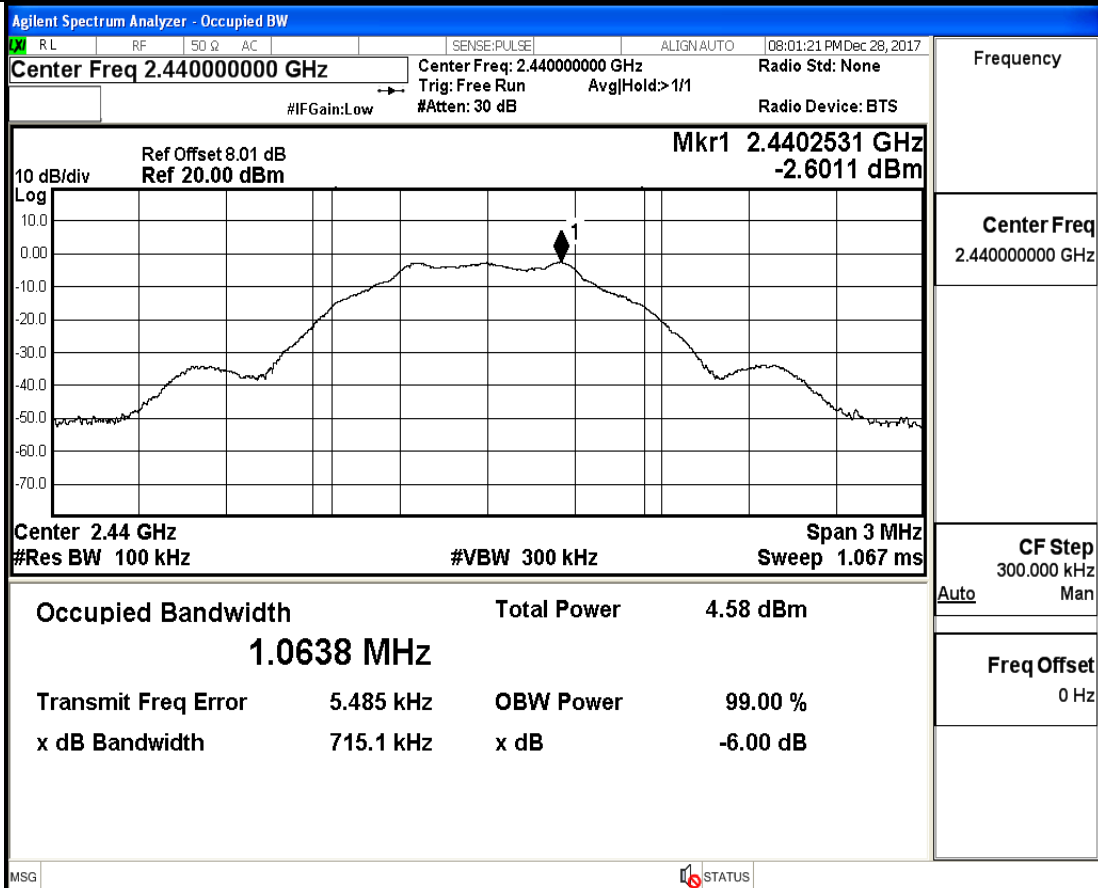
**B.1 6dB Bandwidth**

Test Mode	Test Channel	Ant	EBW[MHz]	Limit	Verdict
BT LE	2402	Ant1	0.7134	0.5	PASS
BT LE	2440	Ant1	0.7151	0.5	PASS
BT LE	2480	Ant1	0.7101	0.5	PASS

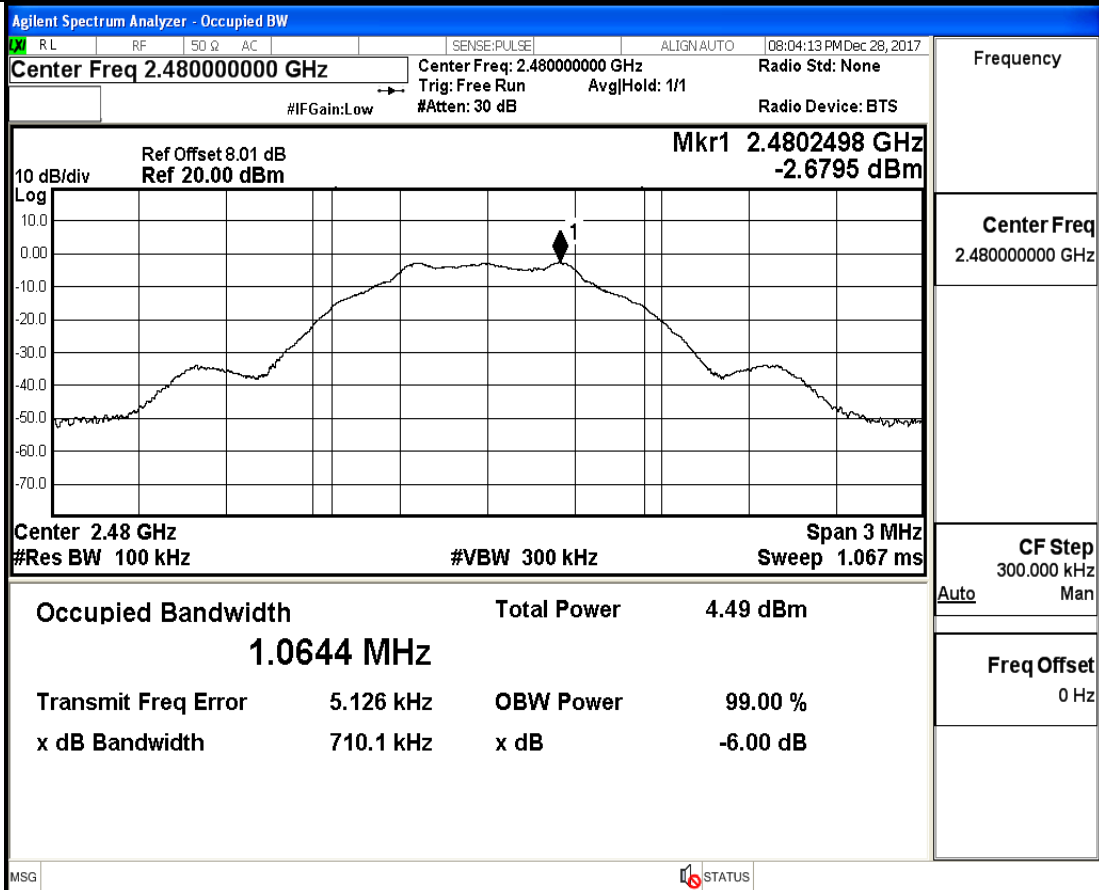
## 6dB Bandwidth\_BT LE\_2402\_Ant1



## 6dB Bandwidth\_BT LE\_2440\_Ant1



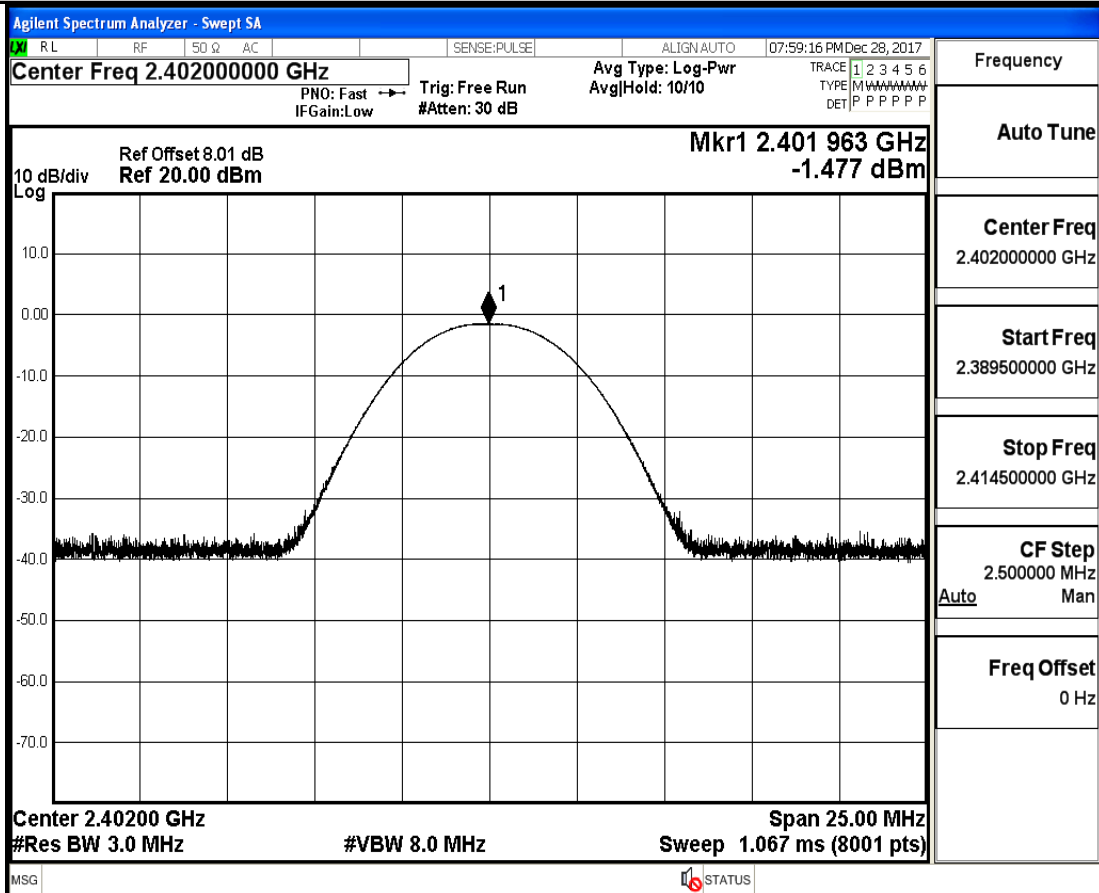
## 6dB Bandwidth\_BT LE\_2480\_Ant1



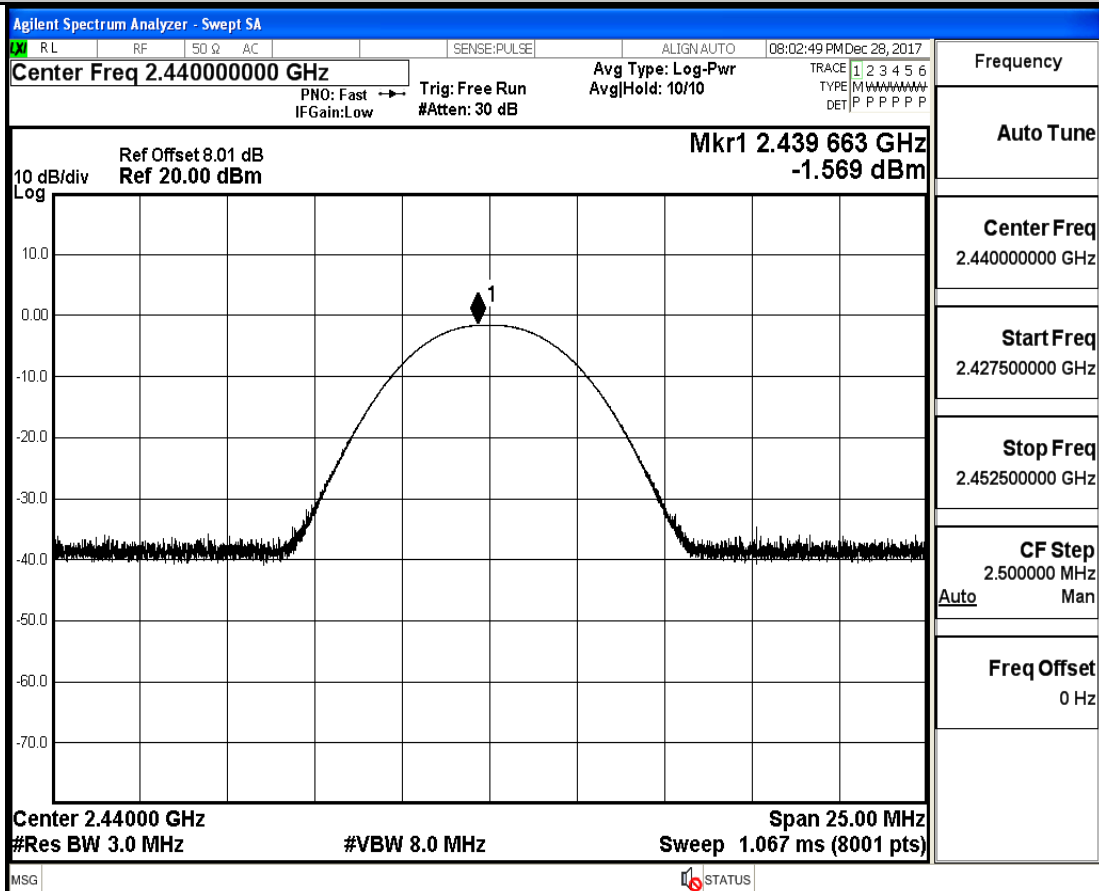
## B.2 Maximum peak conducted output power

Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
BT LE	2402	Ant1	-1.477	30	PASS
BT LE	2440	Ant1	-1.569	30	PASS
BT LE	2480	Ant1	-1.658	30	PASS

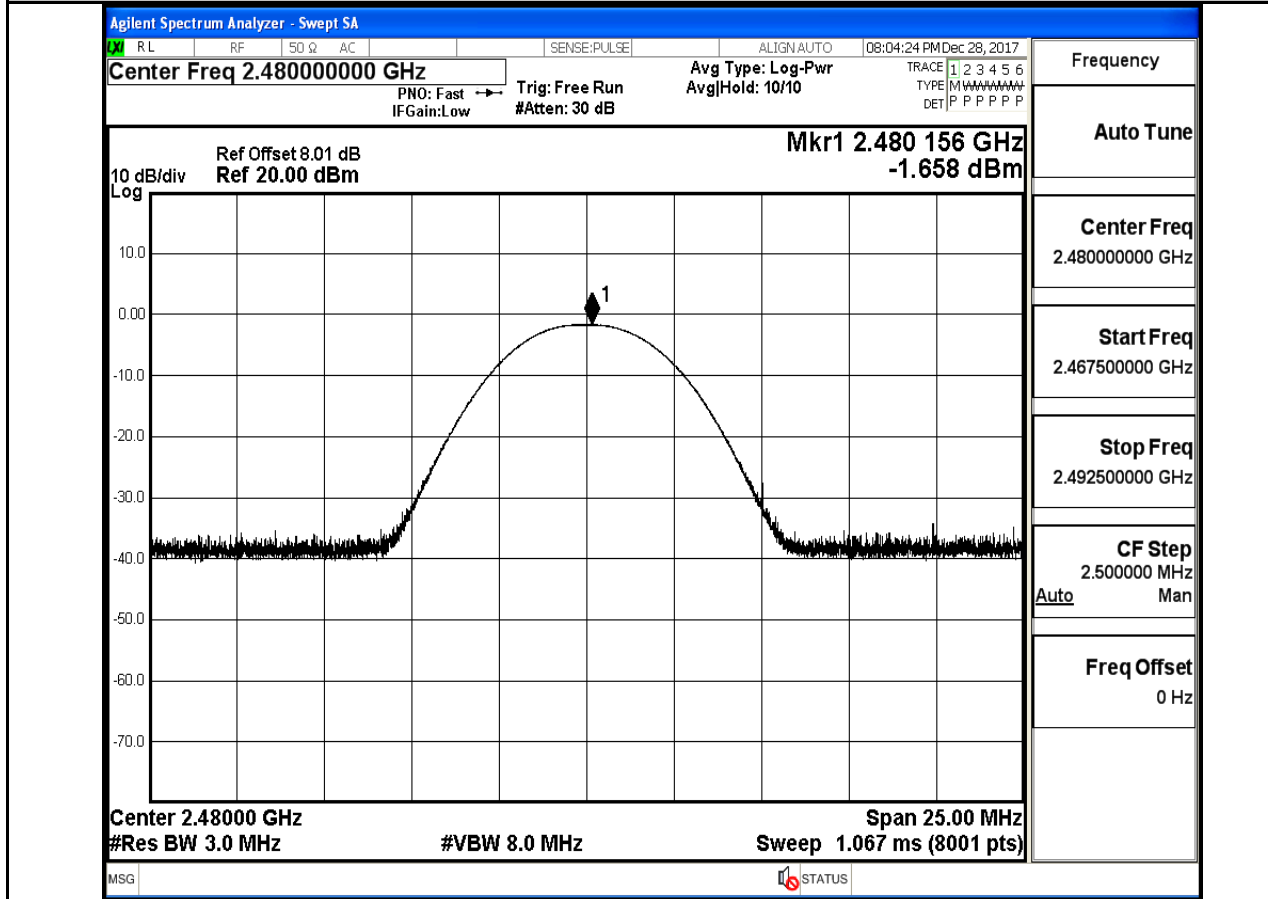
## Maximum peak conducted output power\_BT LE\_2402\_Ant1



## Maximum peak conducted output power\_BT LE\_2440\_Ant1



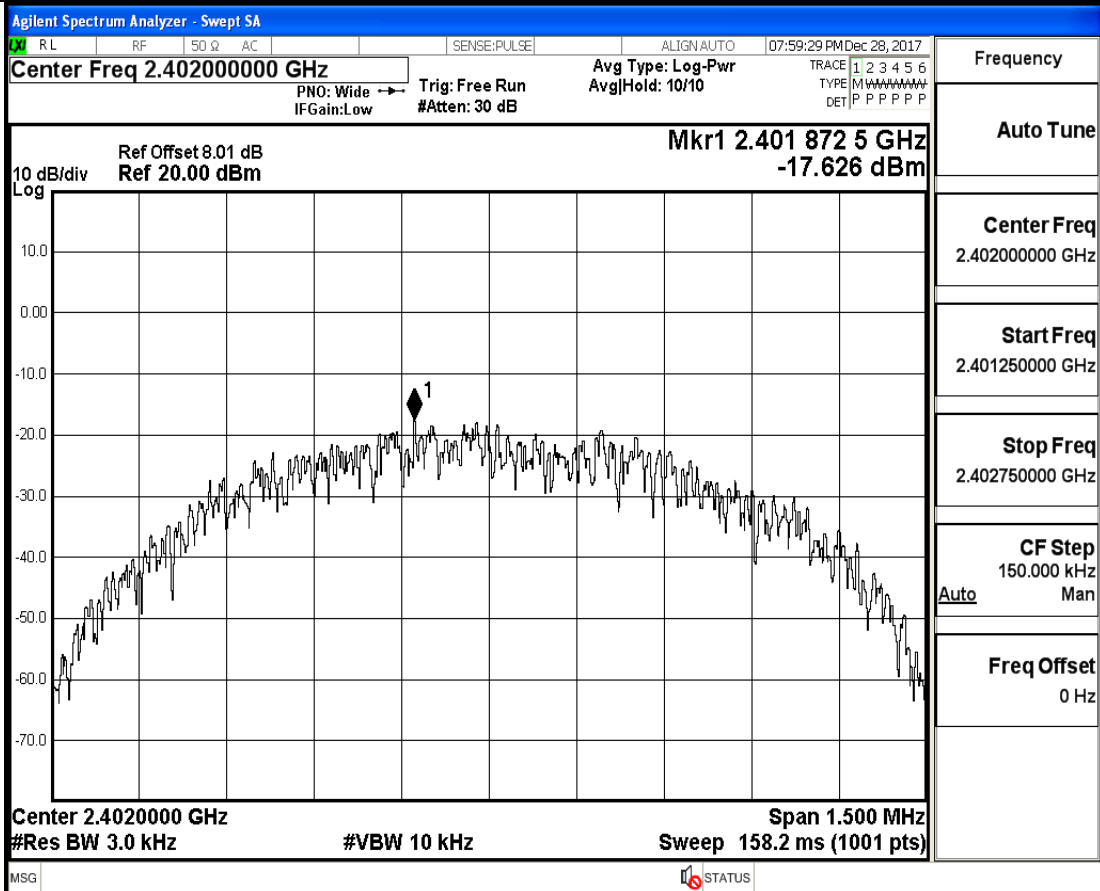
# Maximum peak conducted output power\_BT LE\_2480\_Ant1



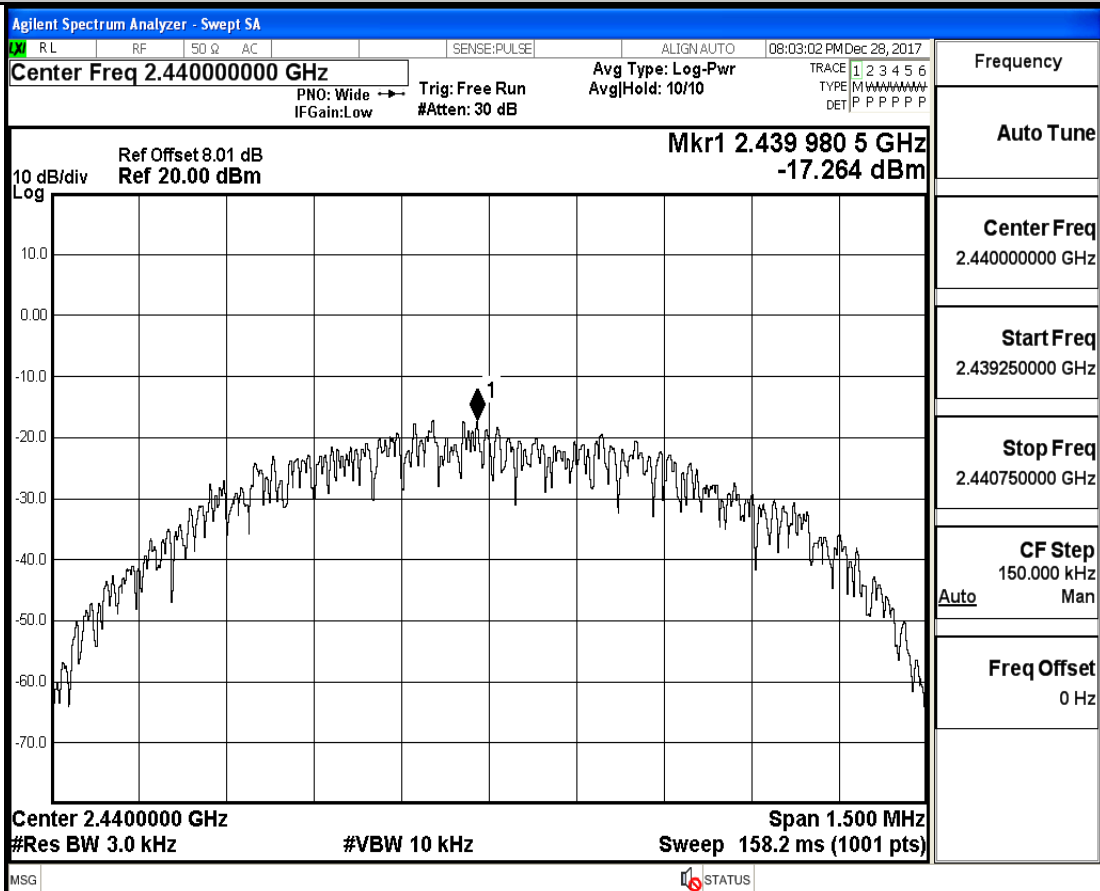
### B.3 Maximum Peak power spectral density

Test Mode	Test Channel	Ant	PSD[dBm/3KHz]	Limit[dBm/3KHz]	Verdict
BT LE	2402	Ant1	-17.626	8.00	PASS
BT LE	2440	Ant1	-17.264	8.00	PASS
BT LE	2480	Ant1	-17.44	8.00	PASS

## Maximum Peak power spectral density\_BT LE\_2402\_Ant1



## Maximum Peak power spectral density\_BT LE\_2440\_Ant1

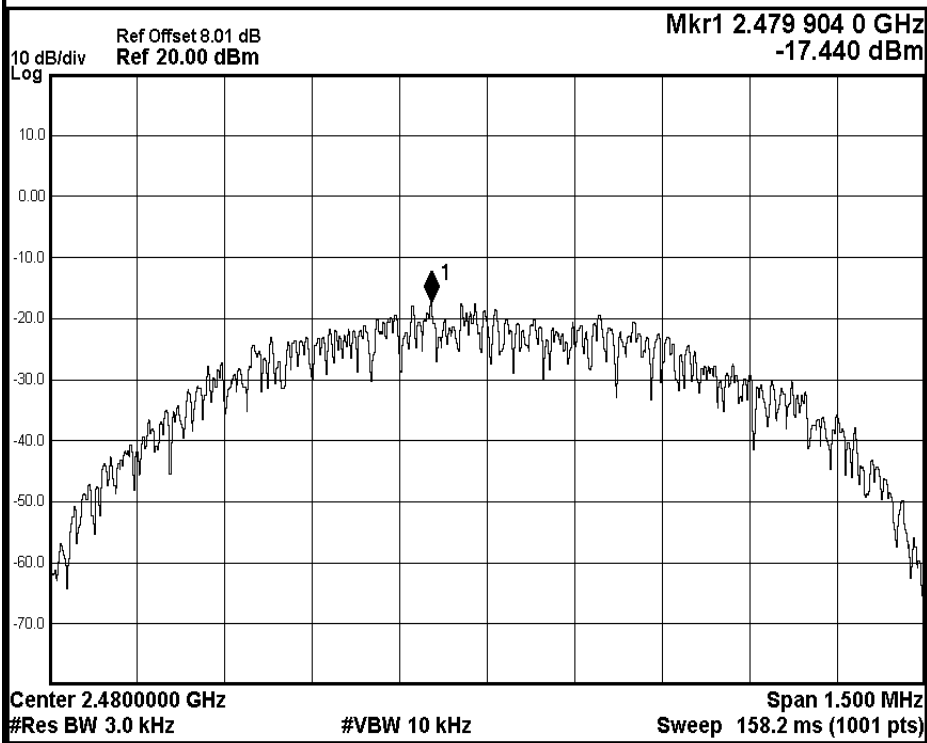




# Maximum Peak power spectral density\_BT LE\_2480\_Ant1

Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:PULSE ALIGN: AUTO 08:04:36 PM Dec 28, 2017  
**Center Freq 2.480000000 GHz** Avg Type: Log-Pwr Avg|Hold: 10/10  
 PNO: Wide Trig: Free Run  
 IFGain: Low #Atten: 30 dB



Frequency

Auto Tune

Center Freq  
 2.480000000 GHz

Start Freq  
 2.479250000 GHz

Stop Freq  
 2.480750000 GHz

CF Step  
 150.000 kHz  
 Auto Man

Freq Offset  
 0 Hz

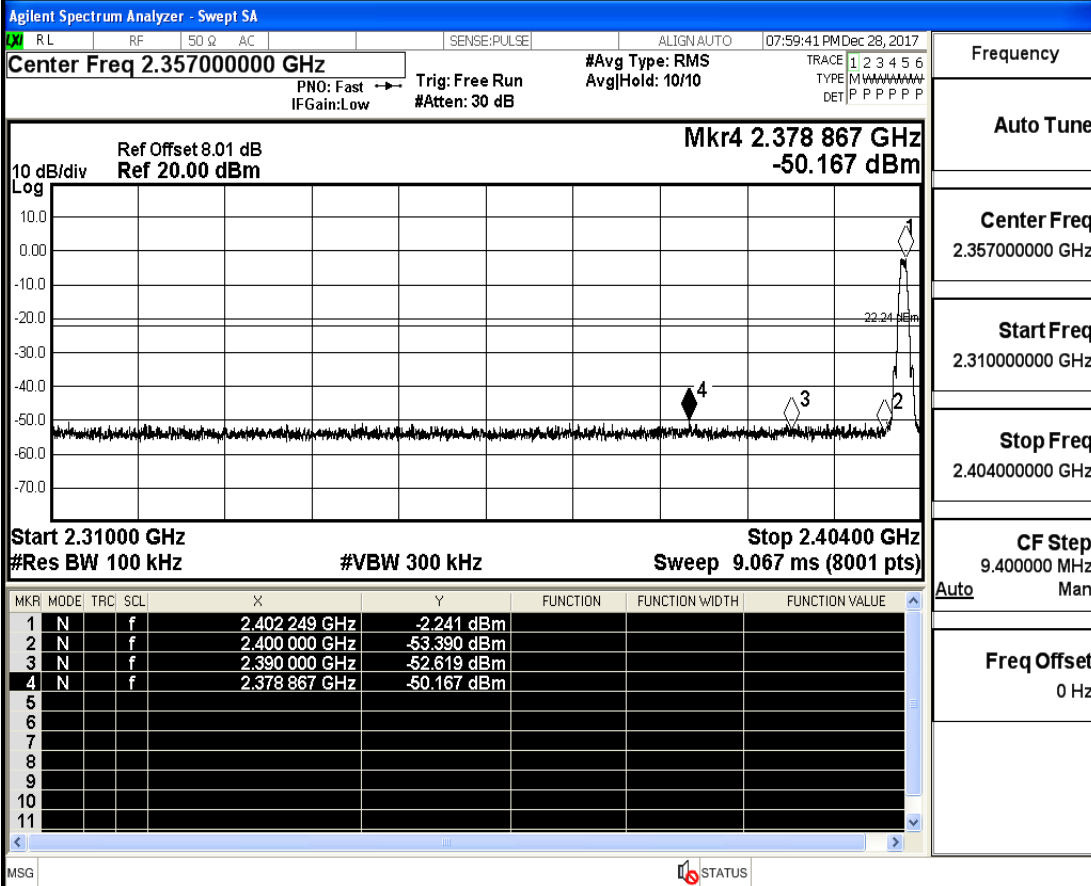
MSG

STATUS

**B.4 Band-edge for RF Conducted Emissions**

Test Mode	Test Channel	Ant	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	2402	Ant1	-2.241	-50.167	-22.24	PASS
BT LE	2480	Ant1	-2.472	-50.376	-22.47	PASS

# Band-edge for RF Conducted Emissions\_BT LE\_2402\_Ant1



Frequency

Auto Tune

Center Freq  
2.357000000 GHz

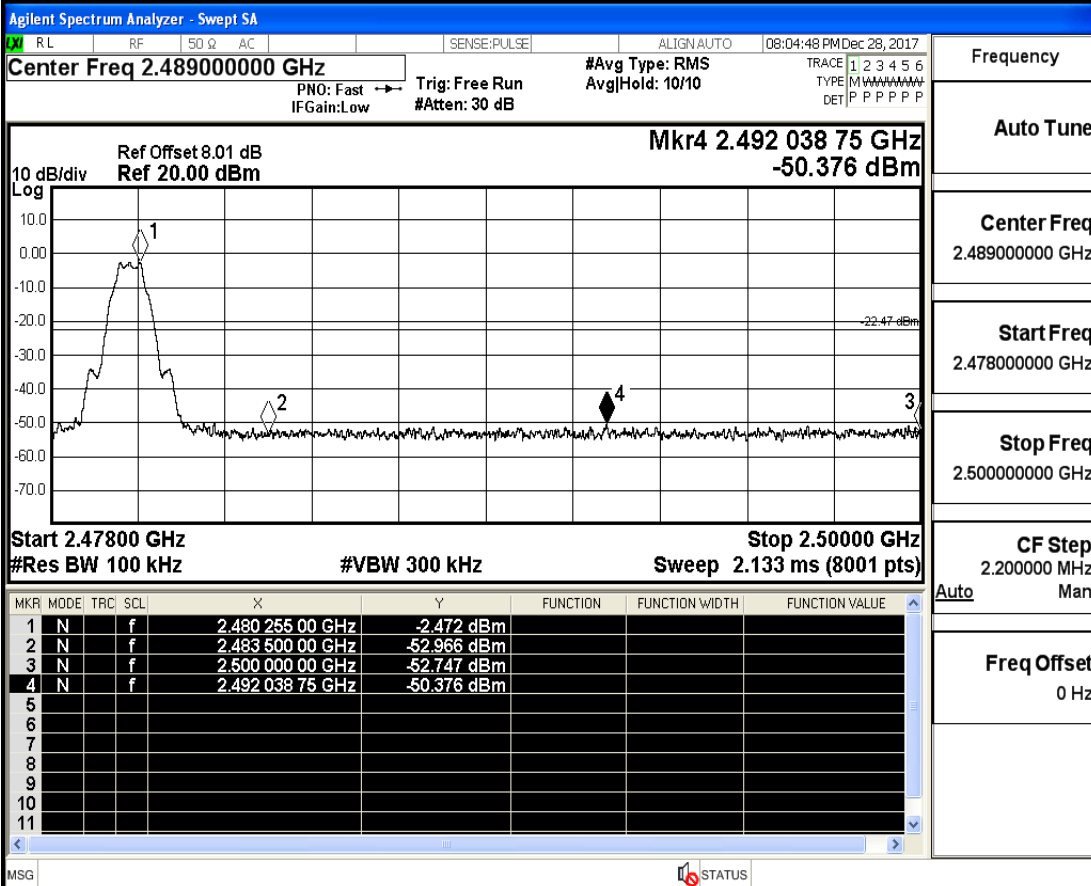
Start Freq  
2.310000000 GHz

Stop Freq  
2.404000000 GHz

CF Step  
9.400000 MHz

Freq Offset  
0 Hz

# Band-edge for RF Conducted Emissions\_BT LE\_2480\_Ant1



Frequency

Auto Tune

Center Freq  
2.489000000 GHz

Start Freq  
2.478000000 GHz

Stop Freq  
2.500000000 GHz

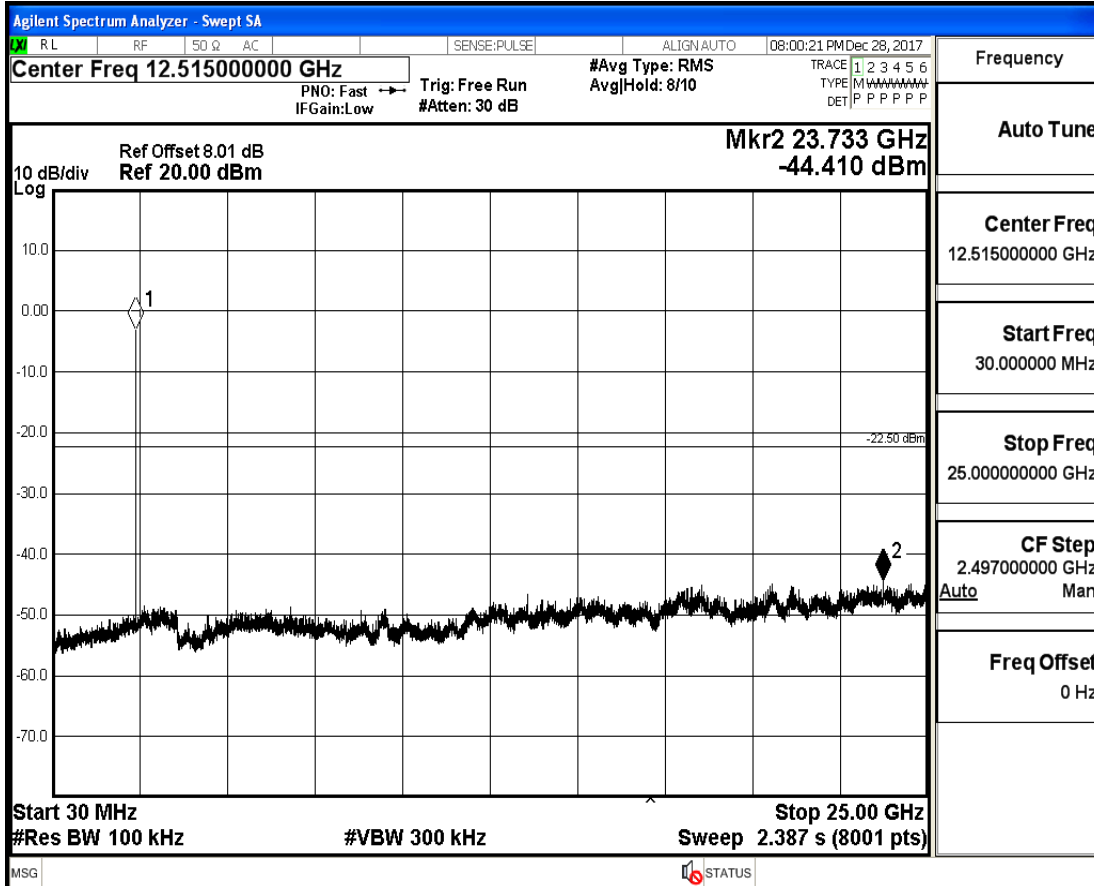
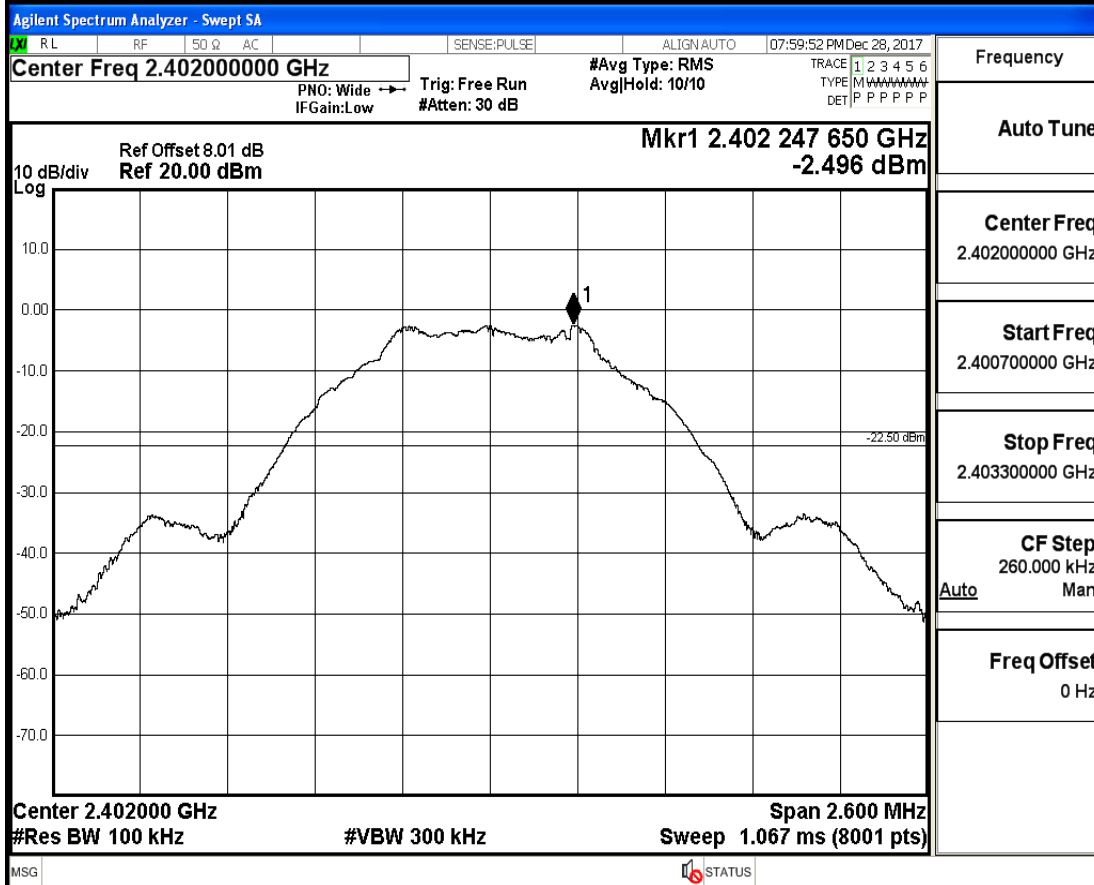
CF Step  
2.200000 MHz

Freq Offset  
0 Hz

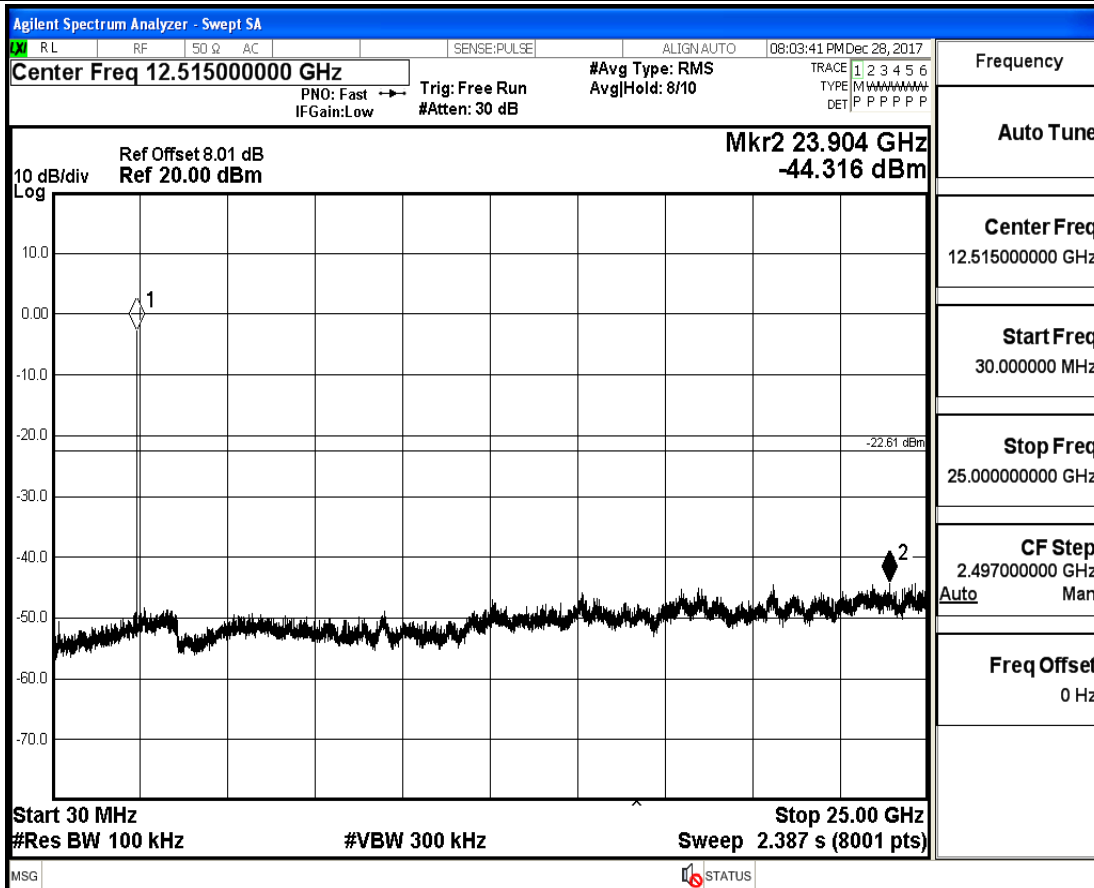
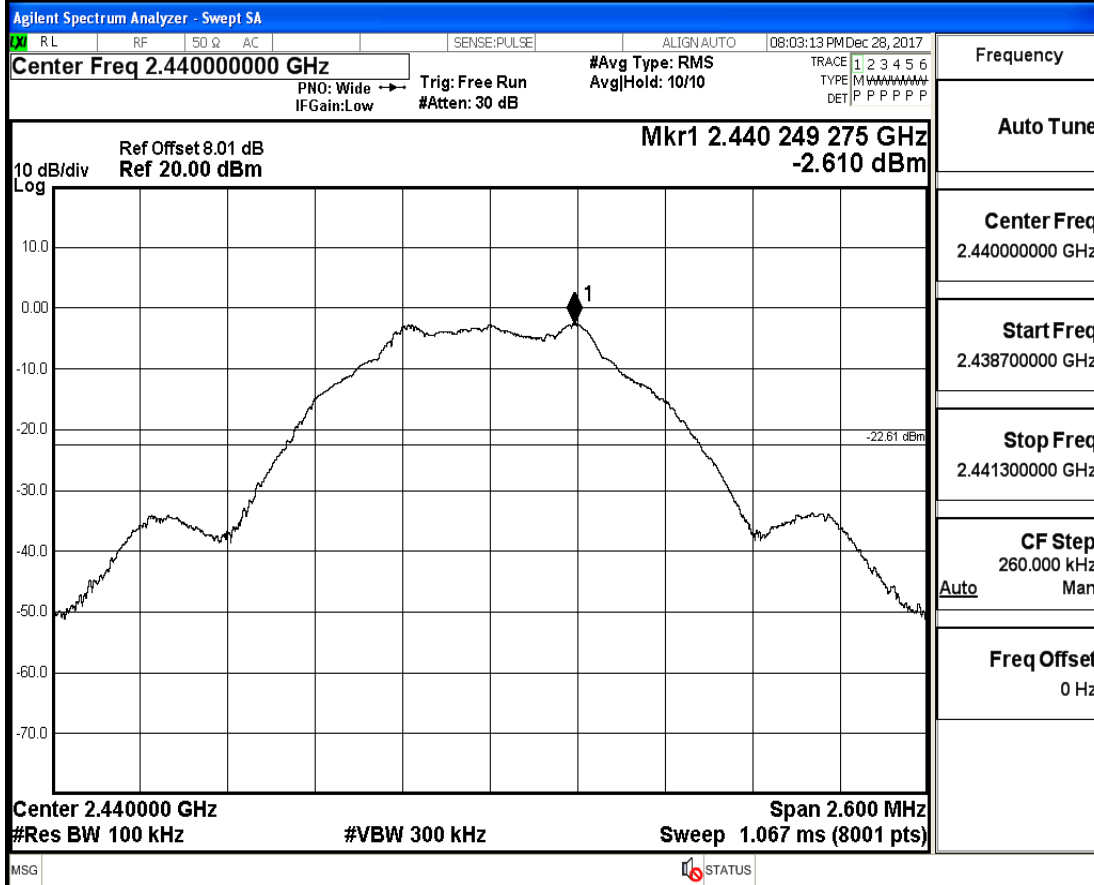
## B.5 RF Conducted Spurious Emissions

Test Mode	Test Channel	Ant	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	2402	Ant1	30	25000	100	300	-2.496	-44.410	<-22.496	PASS
BT LE	2440	Ant1	30	25000	100	300	-2.61	-44.316	<-22.61	PASS
BT LE	2480	Ant1	30	25000	100	300	-2.702	-44.449	<-22.702	PASS

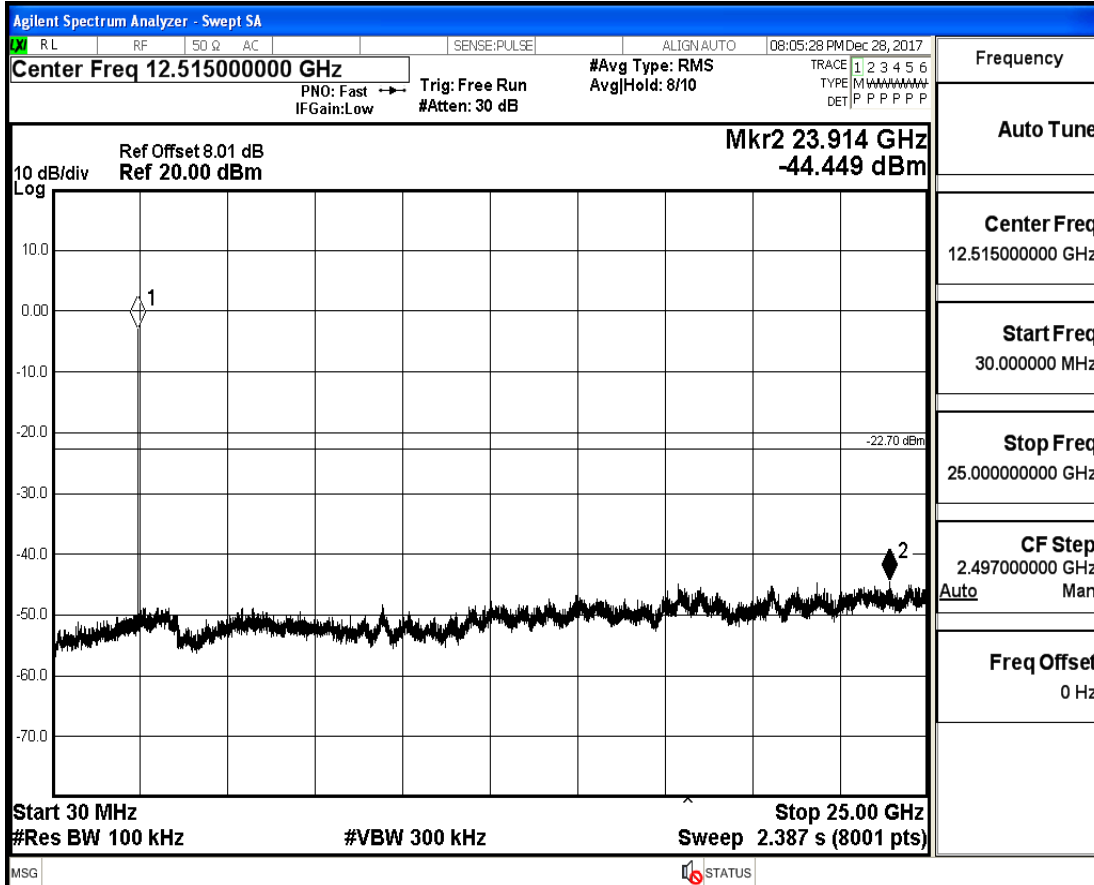
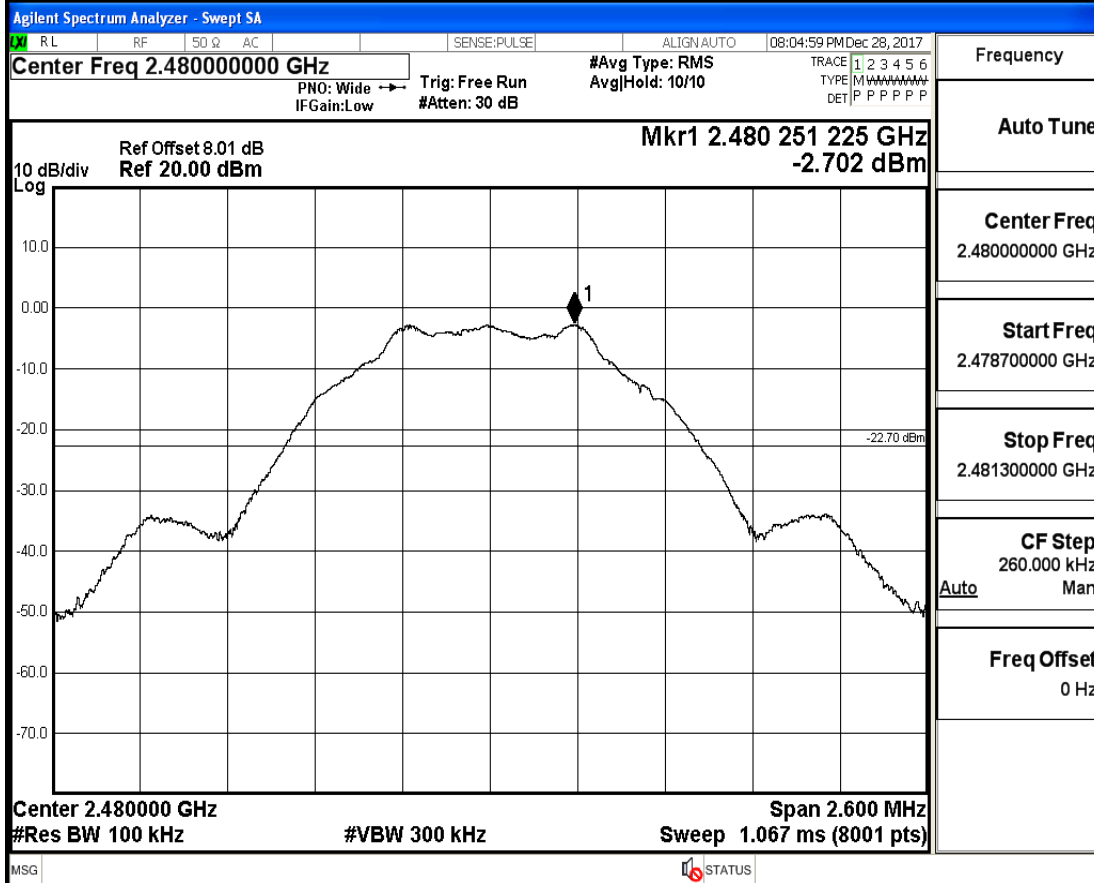
# RF Conducted Spurious Emissions\_BT LE\_2402\_Ant1



# RF Conducted Spurious Emissions\_BT LE\_2440\_Ant1



# RF Conducted Spurious Emissions\_BT LE\_2480\_Ant1

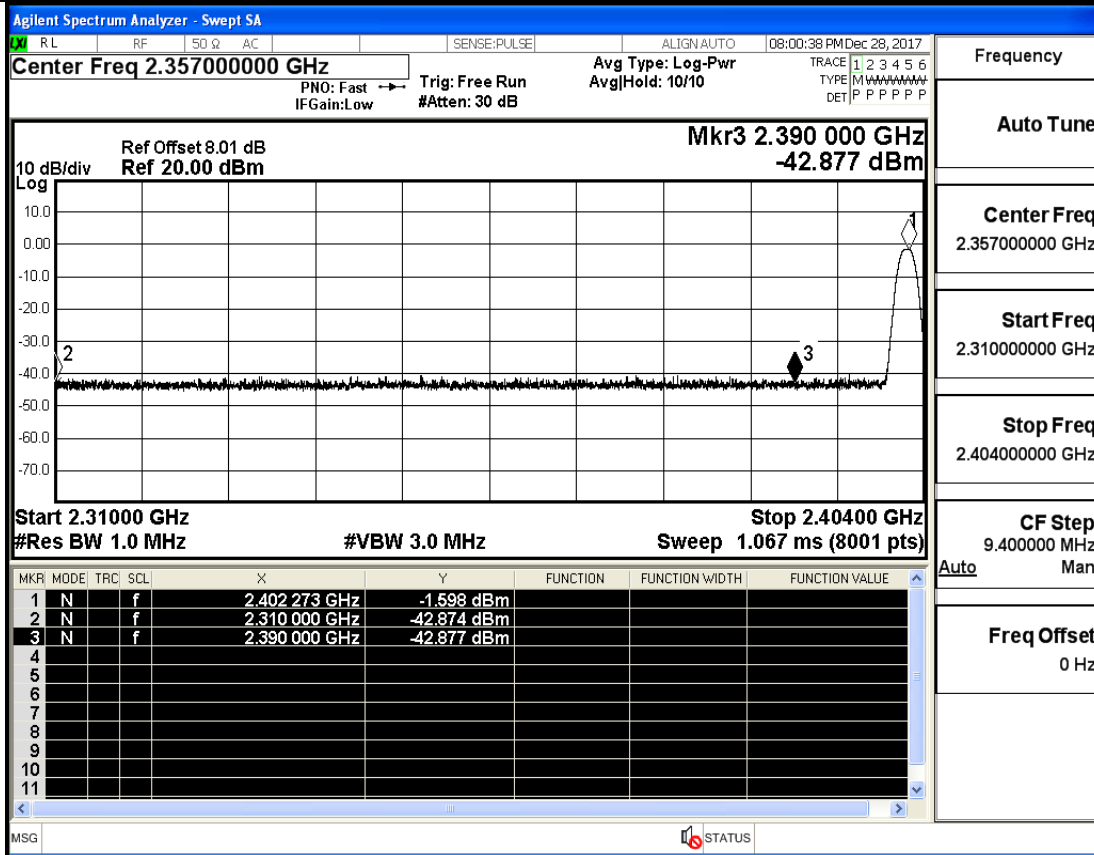


### B.6 Restrict-band band-edge measurements

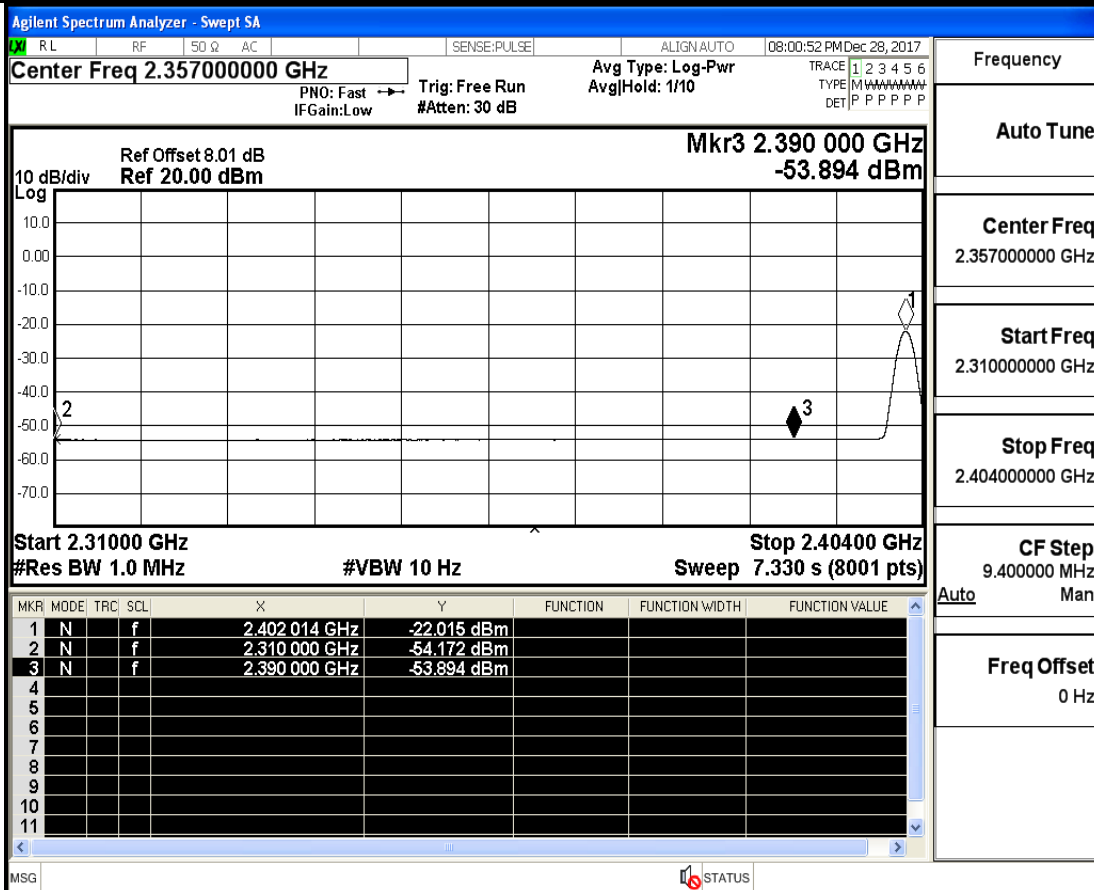
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
BT LE	2402	Ant1	2310.0	-42.87	2	0	54.38	PEAK	74	PASS
BT LE	2402	Ant1	2310.0	-54.17	2	0	43.09	AV	54	PASS
BT LE	2402	Ant1	2390.0	-42.88	2	0	54.38	PEAK	74	PASS
BT LE	2402	Ant1	2390.0	-53.89	2	0	43.36	AV	54	PASS
BT LE	2480	Ant1	2483.5	-43.91	2	0	53.35	PEAK	74	PASS
BT LE	2480	Ant1	2483.5	-53.72	2	0	43.53	AV	54	PASS
BT LE	2480	Ant1	2500.0	-43.49	2	0	53.77	PEAK	74	PASS
BT LE	2480	Ant1	2500.0	-53.56	2	0	43.70	AV	54	PASS



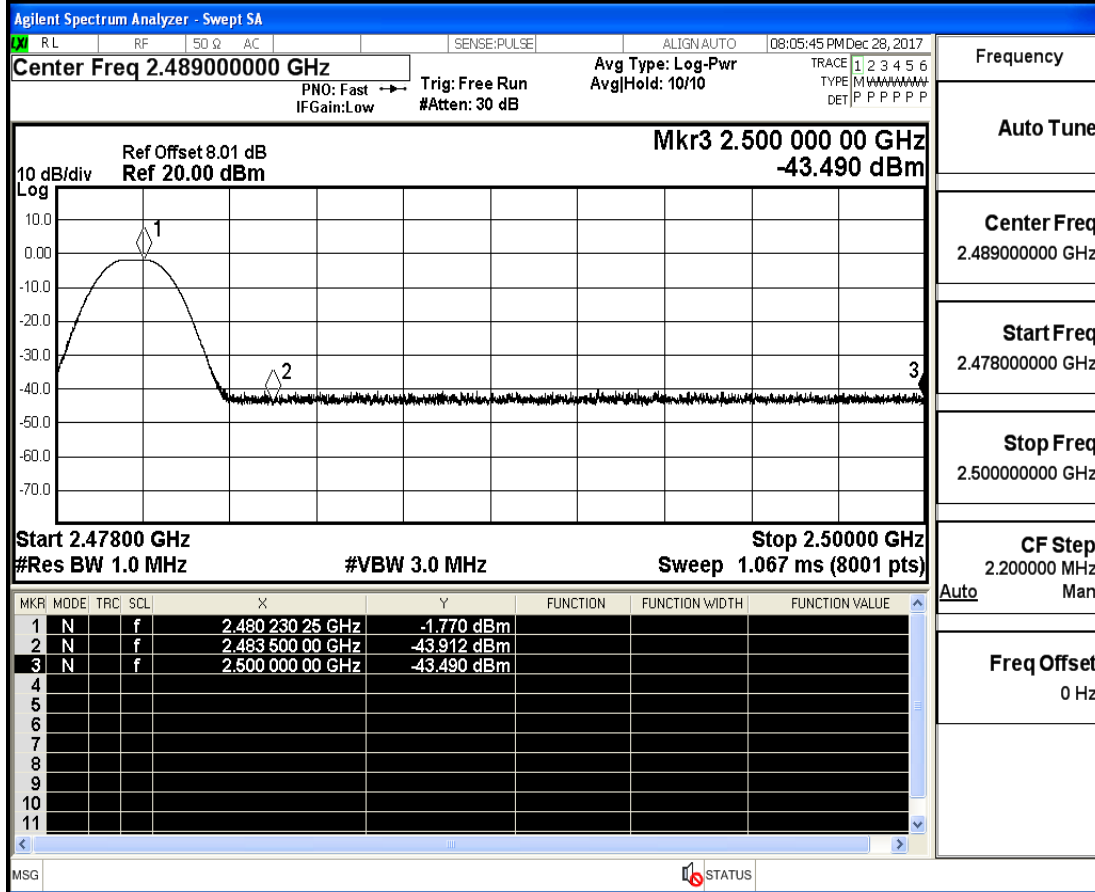
# Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_PEAK



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



# Restrict-band band-edge measurements\_BT LE\_2480\_Ant1\_PEAK



Frequency

Auto Tune

Center Freq  
2.489000000 GHz

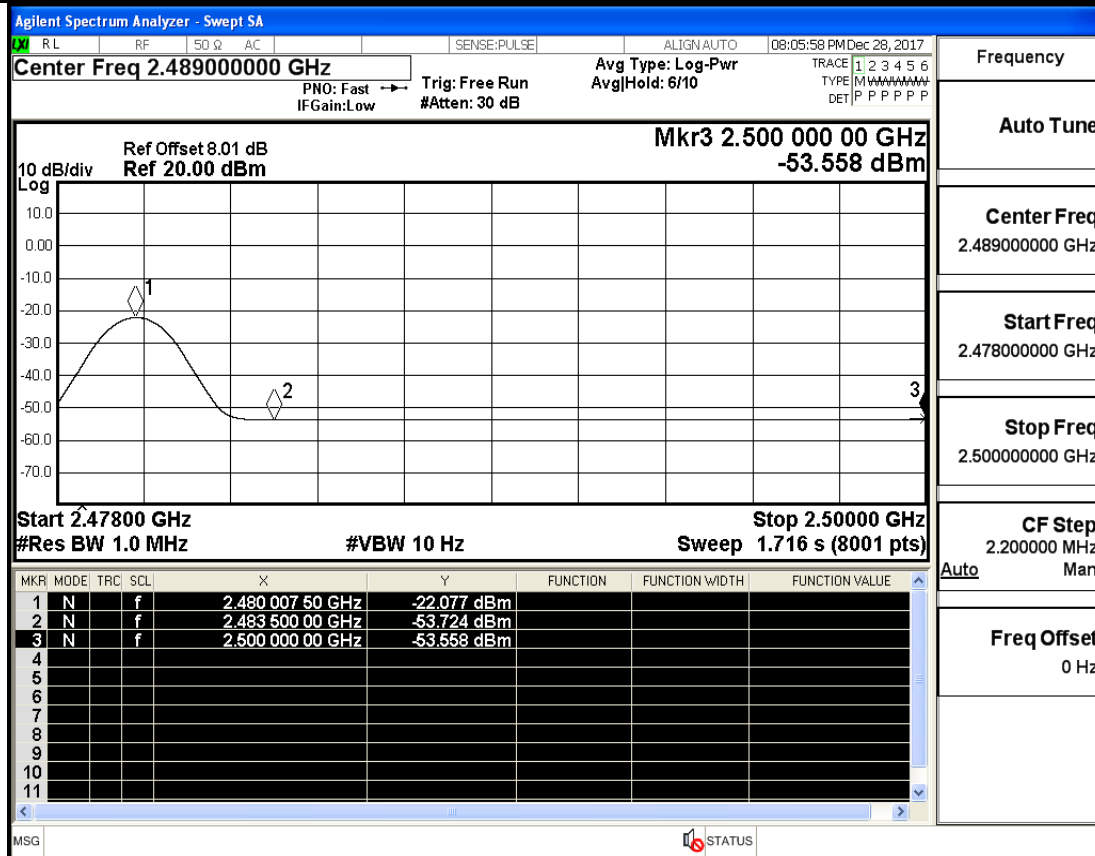
Start Freq  
2.478000000 GHz

Stop Freq  
2.500000000 GHz

CF Step  
2.200000 MHz  
Auto Man

Freq Offset  
0 Hz

# Restrict-band band-edge measurements\_BT LE\_2480\_Ant1\_AV



Frequency

Auto Tune

Center Freq  
2.489000000 GHz

Start Freq  
2.478000000 GHz

Stop Freq  
2.500000000 GHz

CF Step  
2.200000 MHz  
Auto Man

Freq Offset  
0 Hz