

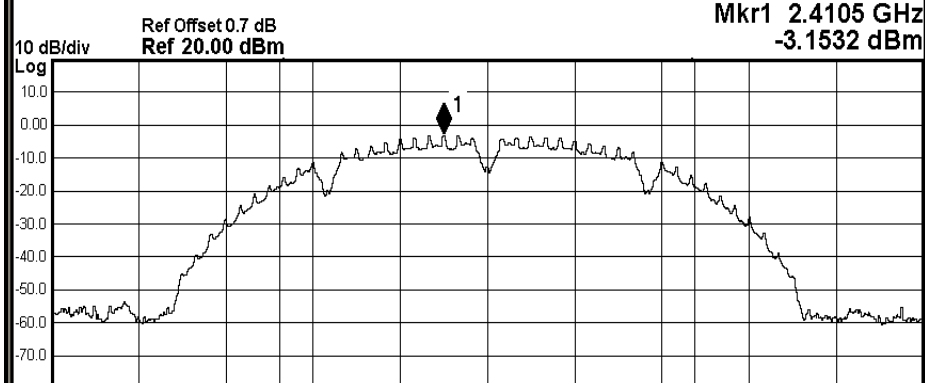
**1.6dB Bandwidth**

Test Mode	Test Channel	EBW[MHz]	Limit	Verdict
11B	2412	10.09	0.5	PASS
11B	2437	10.10	0.5	PASS
11B	2462	10.08	0.5	PASS
11G	2412	16.38	0.5	PASS
11G	2437	16.40	0.5	PASS
11G	2462	16.38	0.5	PASS
11N20	2412	17.62	0.5	PASS
11N20	2437	17.63	0.5	PASS
11N20	2462	17.61	0.5	PASS

## 6dB Bandwidth\_11B\_2412\_Ant1

Agilent Spectrum Analyzer - Occupied BW

Center Freq 2.41200000 GHz  
 SENSE: PULSE  
 ALIGN: AUTO  
 05:03:16 PM Oct 17, 2017  
 Radio Std: None  
 Radio Device: BTS  
 #IFGain: Low  
 Trig: Free Run  
 Avg/Hold: 1/1  
 #Atten: 30 dB



Center 2.412 GHz  
 #Res BW 100 kHz  
 #VBW 300 kHz  
 Span 30 MHz  
 Sweep 2.933 ms

Occupied Bandwidth  
**14.201 MHz**  
 Total Power 13.2 dBm  
 Transmit Freq Error 17.021 kHz  
 OBW Power 99.00 %  
 x dB Bandwidth 10.09 MHz  
 x dB -6.00 dB

Frequency

Center Freq  
 2.41200000 GHz

CF Step  
 3.000000 MHz  
 Auto Man

Freq Offset  
 0 Hz

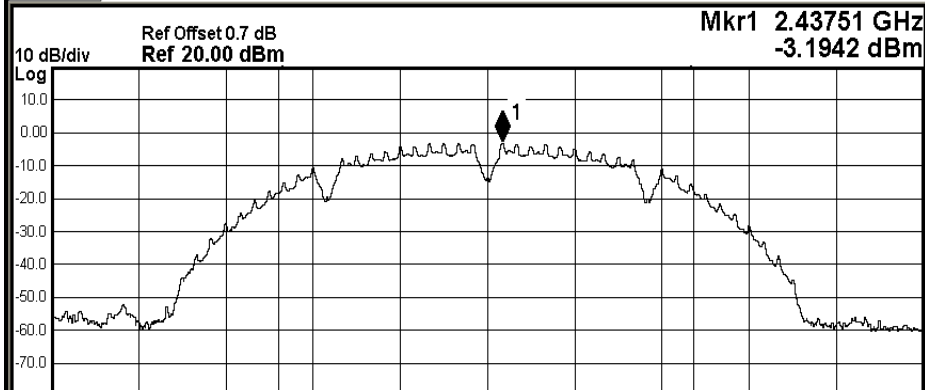
MSG

STATUS

## 6dB Bandwidth\_11B\_2437\_Ant1

Agilent Spectrum Analyzer - Occupied BW

Center Freq 2.437000000 GHz  
 SENSE: PULSE  
 ALIGN: AUTO  
 05:04:12 PM Oct 17, 2017  
 Radio Std: None  
 Radio Device: BTS  
 #IFGain: Low  
 Trig: Free Run  
 Avg/Hold: 1/1  
 #Atten: 30 dB



Center 2.437 GHz  
 #Res BW 100 kHz  
 #VBW 300 kHz  
 Span 30 MHz  
 Sweep 2.933 ms

Occupied Bandwidth  
**14.276 MHz**  
 Total Power 13.3 dBm  
 Transmit Freq Error -50.501 kHz  
 OBW Power 99.00 %  
 x dB Bandwidth 10.10 MHz  
 x dB -6.00 dB

Frequency

Center Freq  
 2.437000000 GHz

CF Step  
 3.000000 MHz  
 Auto Man

Freq Offset  
 0 Hz

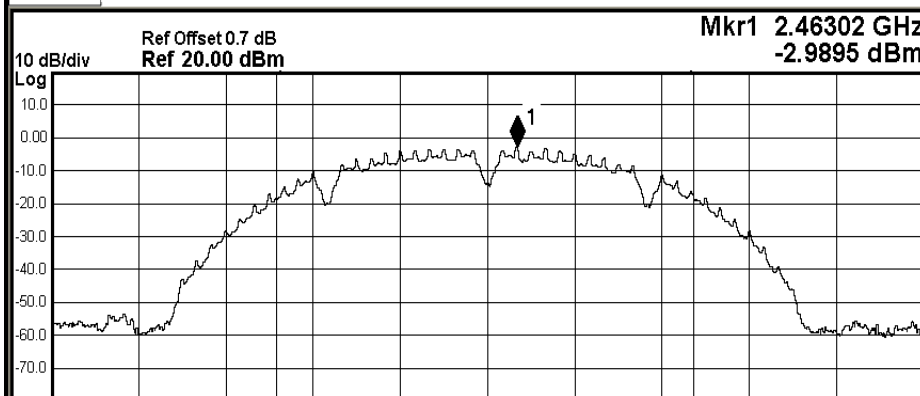
MSG

STATUS

## 6dB Bandwidth\_11B\_2462\_Ant1

Agilent Spectrum Analyzer - Occupied BW

Center Freq 2.46200000 GHz Center Freq: 2.46200000 GHz Radio Std: None  
 #IFGain: Low Trig: Free Run Avg|Hold: 1/1  
 #Atten: 30 dB Radio Device: BTS



Center 2.462 GHz Span 30 MHz  
 #Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms

Occupied Bandwidth Total Power 13.4 dBm  
**14.270 MHz**  
 Transmit Freq Error -74.227 kHz OBW Power 99.00 %  
 x dB Bandwidth 10.08 MHz x dB -6.00 dB

Frequency

Center Freq  
2.46200000 GHz

CF Step  
3.000000 MHz  
Auto Man

Freq Offset  
0 Hz

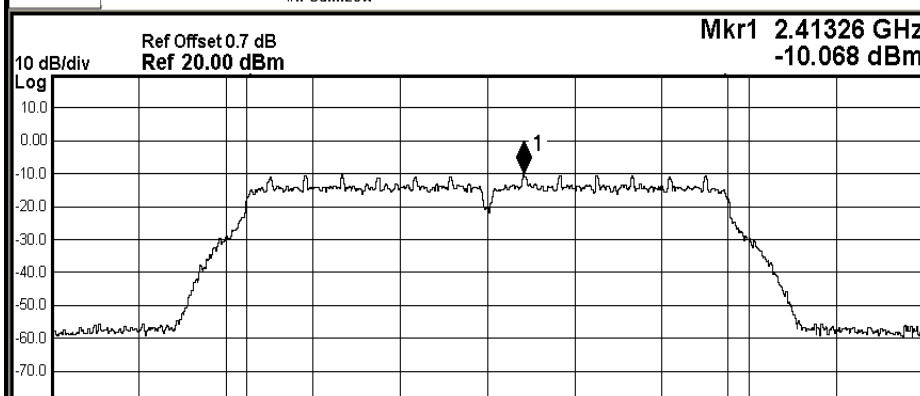
MSG

STATUS

## 6dB Bandwidth\_11G\_2412\_Ant1

Agilent Spectrum Analyzer - Occupied BW

Center Freq 2.41200000 GHz Center Freq: 2.41200000 GHz Radio Std: None  
 #IFGain: Low Trig: Free Run Avg|Hold: 1/1  
 #Atten: 30 dB Radio Device: BTS



Center 2.412 GHz Span 30 MHz  
 #Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms

Occupied Bandwidth Total Power 7.94 dBm  
**16.496 MHz**  
 Transmit Freq Error -2.506 kHz OBW Power 99.00 %  
 x dB Bandwidth 16.38 MHz x dB -6.00 dB

Frequency

Center Freq  
2.41200000 GHz

CF Step  
3.000000 MHz  
Auto Man

Freq Offset  
0 Hz

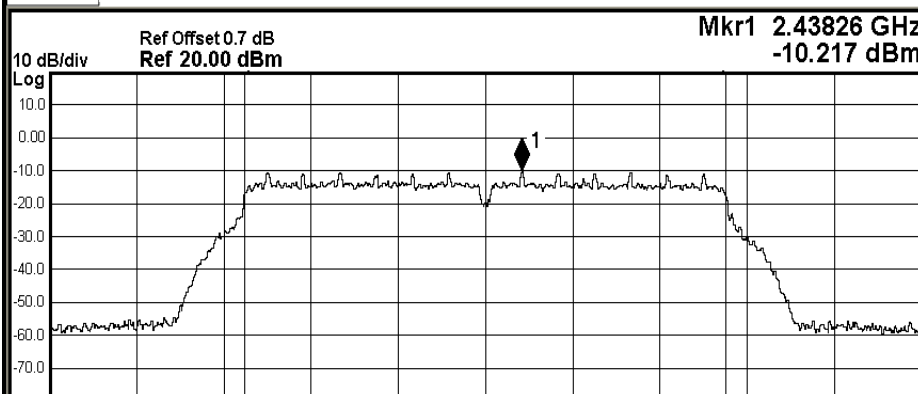
MSG

STATUS

## 6dB Bandwidth\_11G\_2437\_Ant1

Agilent Spectrum Analyzer - Occupied BW

RL RF 50  $\Omega$  AC SENSE:PULSE ALIGN: AUTO 05:07:01 PM Oct 17, 2017  
**Center Freq 2.437000000 GHz** Center Freq: 2.437000000 GHz Radio Std: None  
 Trig: Free Run Avg|Hold: 1/1  
 #IFGain: Low #Atten: 30 dB Radio Device: BTS



Center 2.437 GHz Span 30 MHz  
 #Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms

Occupied Bandwidth Total Power 7.80 dBm  
**16.504 MHz**  
 Transmit Freq Error -6.875 kHz OBW Power 99.00 %  
 x dB Bandwidth 16.40 MHz x dB -6.00 dB

Frequency

Center Freq  
 2.437000000 GHz

CF Step  
 3.000000 MHz  
 Auto Man

Freq Offset  
 0 Hz

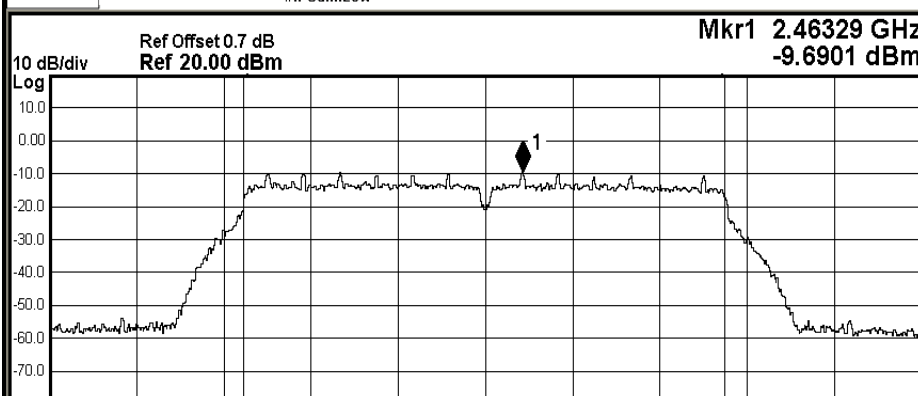
MSG

STATUS

## 6dB Bandwidth\_11G\_2462\_Ant1

Agilent Spectrum Analyzer - Occupied BW

RL RF 50  $\Omega$  AC SENSE:PULSE ALIGN: AUTO 05:07:57 PM Oct 17, 2017  
**Center Freq 2.462000000 GHz** Center Freq: 2.462000000 GHz Radio Std: None  
 Trig: Free Run Avg|Hold: 1/1  
 #IFGain: Low #Atten: 30 dB Radio Device: BTS



Center 2.462 GHz Span 30 MHz  
 #Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms

Occupied Bandwidth Total Power 8.26 dBm  
**16.501 MHz**  
 Transmit Freq Error -24.742 kHz OBW Power 99.00 %  
 x dB Bandwidth 16.38 MHz x dB -6.00 dB

Frequency

Center Freq  
 2.462000000 GHz

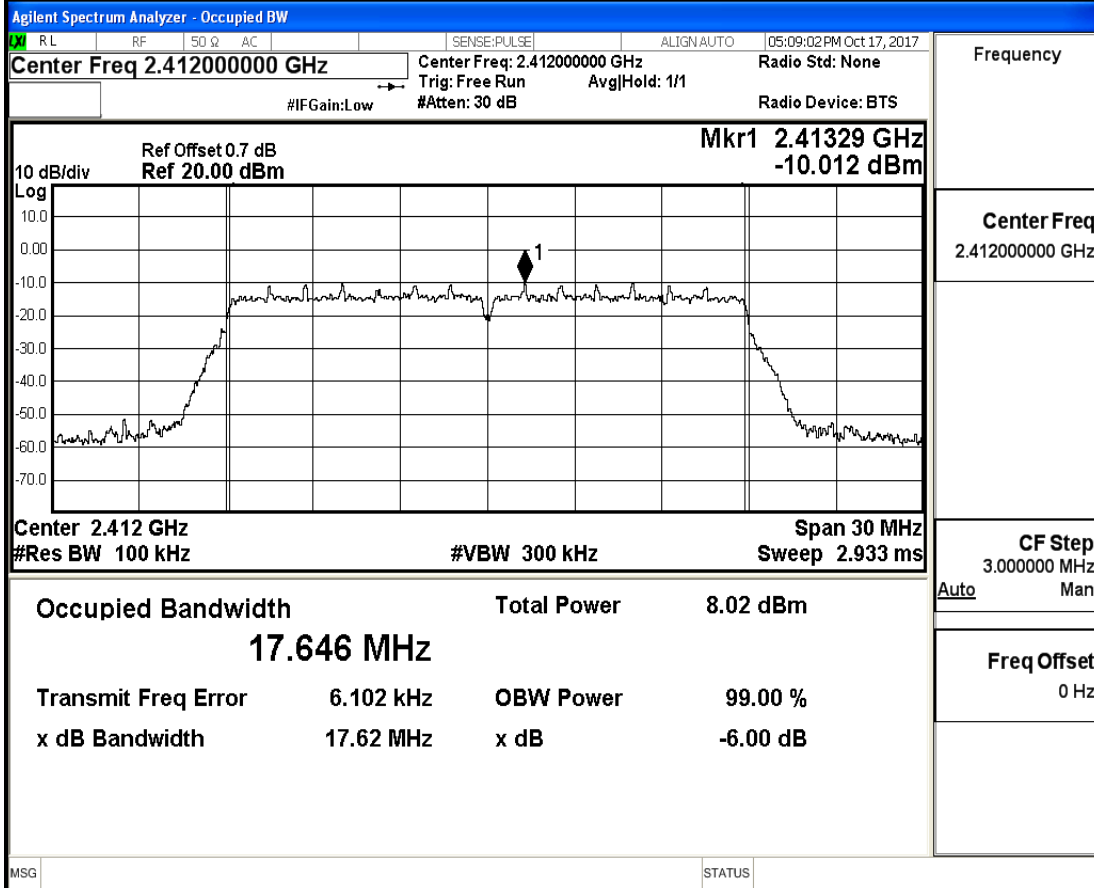
CF Step  
 3.000000 MHz  
 Auto Man

Freq Offset  
 0 Hz

MSG

STATUS

## 6dB Bandwidth\_11N20SISO\_2412\_Ant1



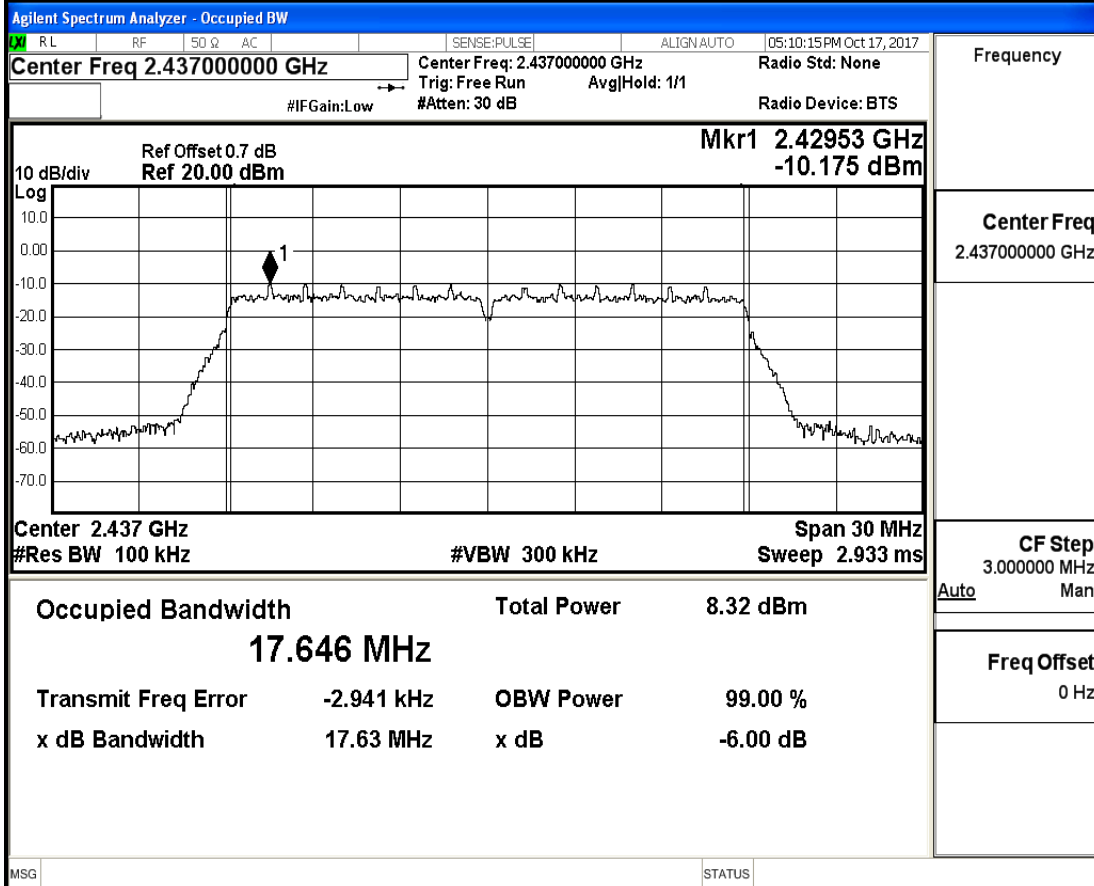
Frequency

Center Freq  
2.41200000 GHz

CF Step  
3.000000 MHz  
Auto Man

Freq Offset  
0 Hz

## 6dB Bandwidth\_11N20SISO\_2437\_Ant1



Frequency

Center Freq  
2.43700000 GHz

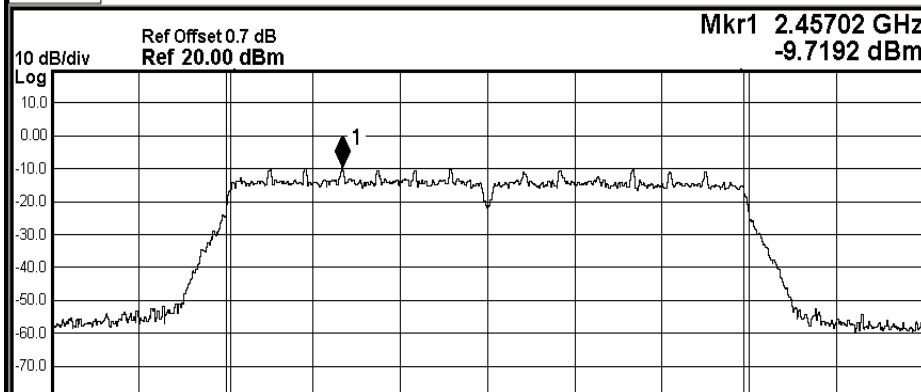
CF Step  
3.000000 MHz  
Auto Man

Freq Offset  
0 Hz

## 6dB Bandwidth\_11N20SISO\_2462\_Ant1

Agilent Spectrum Analyzer - Occupied BW

☒ RL    RF    50  $\Omega$     AC    SENSE:PULSE    ALIGN: AUTO    05:11:22 PM Oct 17, 2017  
**Center Freq 2.462000000 GHz**    Center Freq: 2.462000000 GHz    Radio Std: None  
 #IF Gain: Low    Trig: Free Run    Avg|Hold: 1/1    Radio Device: BTS  
 #Atten: 30 dB



Center 2.462 GHz    Span 30 MHz  
 #Res BW 100 kHz    #VBW 300 kHz    Sweep 2.933 ms

Occupied Bandwidth	Total Power	8.20 dBm
<b>17.635 MHz</b>		
Transmit Freq Error	-15.161 kHz	OBW Power
x dB Bandwidth	17.61 MHz	x dB
		99.00 %
		-6.00 dB

Frequency

Center Freq  
 2.462000000 GHz

CF Step  
 3.000000 MHz  
 Auto    Man

Freq Offset  
 0 Hz

MSG

STATUS

## 2.Occupied Bandwidth

Test Mode	Test Channel	OBW[MHz]	Limit[MHz]	Verdict
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## 3.Maximum peak conducted output power

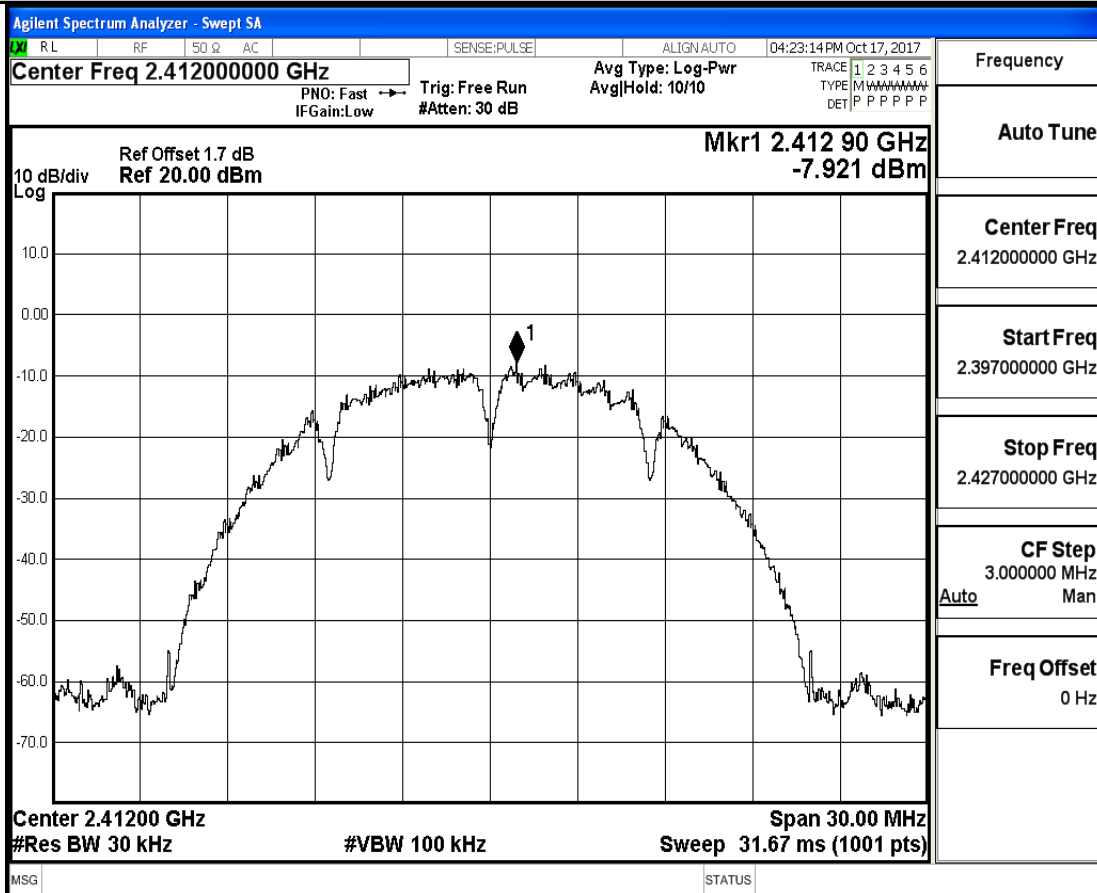
Test Mode	Test Channel	Power[dBm]	Limit[dBm]	Verdict
11B	2412	8.40	30	PASS
11B	2437	8.53	30	PASS
11B	2462	8.61	30	PASS
11G	2412	8.83	30	PASS
11G	2437	8.77	30	PASS
11G	2462	9.14	30	PASS
11N20	2412	8.91	30	PASS
11N20	2437	9.17	30	PASS
11N20	2462	9.17	30	PASS

**4.Maximum Peak power spectral density**

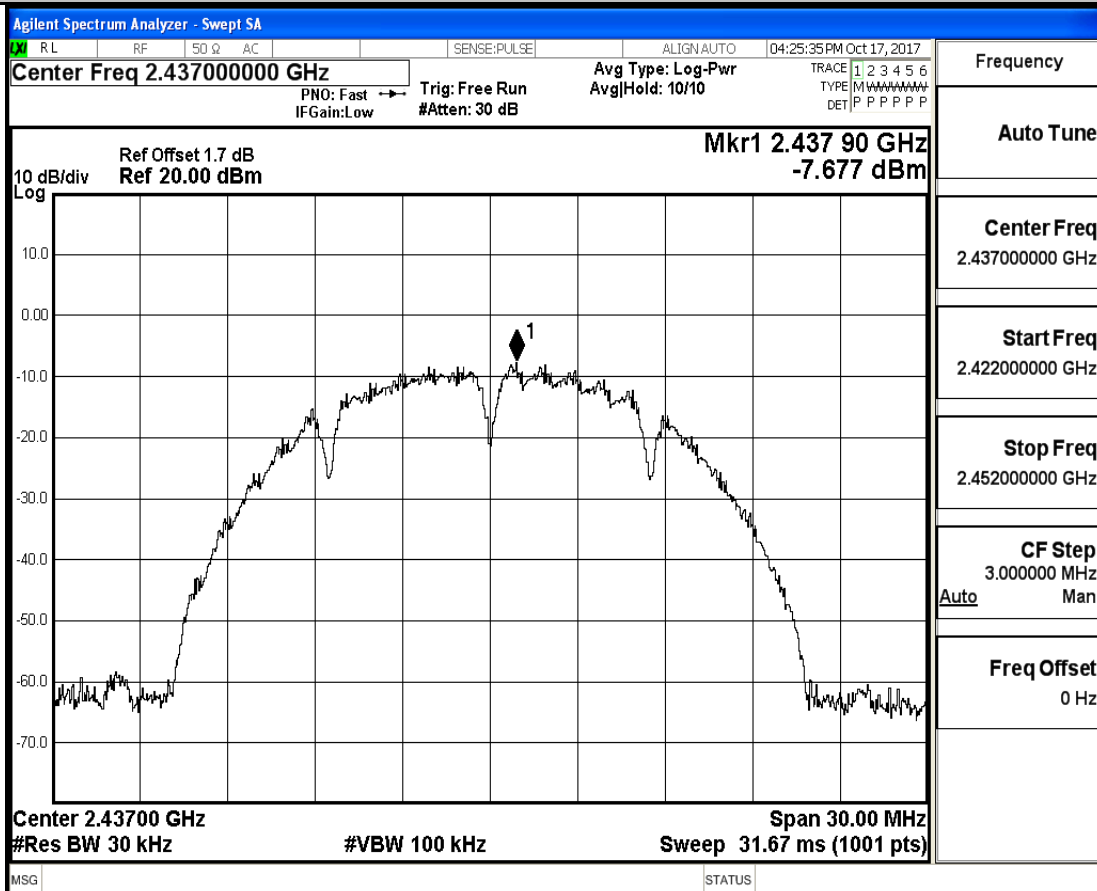
Test Mode	Test Channel	Measured Peak Power Spectral Density (dBm/30KHz)	Limits (dBm/3KHz)	Verdict
11B	2412	-7.921	8.00	PASS
11B	2437	-7.677	8.00	PASS
11B	2462	-7.519	8.00	PASS
11G	2412	-9.822	8.00	PASS
11G	2437	-9.196	8.00	PASS
11G	2462	-8.701	8.00	PASS
11N20	2412	-9.654	8.00	PASS
11N20	2437	-9.024	8.00	PASS
11N20	2462	-8.862	8.00	PASS



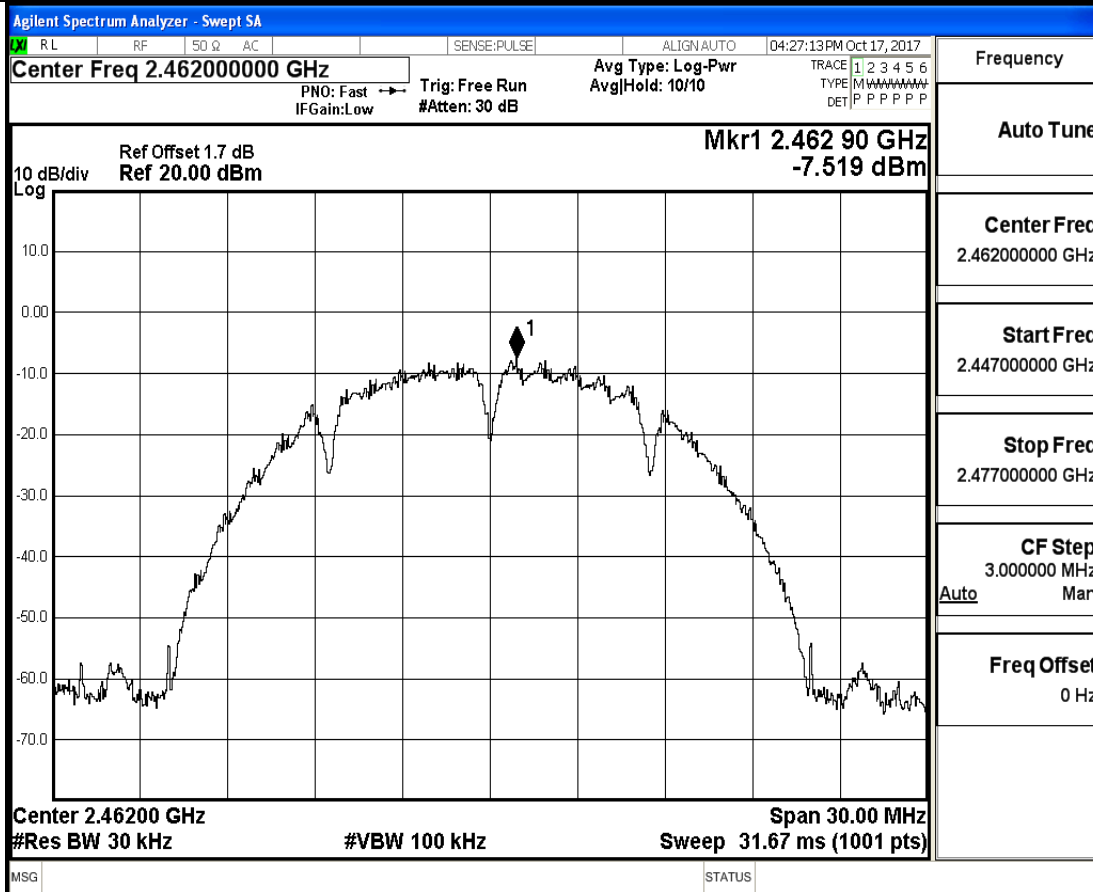
## Maximum Peak power spectral density\_11B\_2412\_Ant1



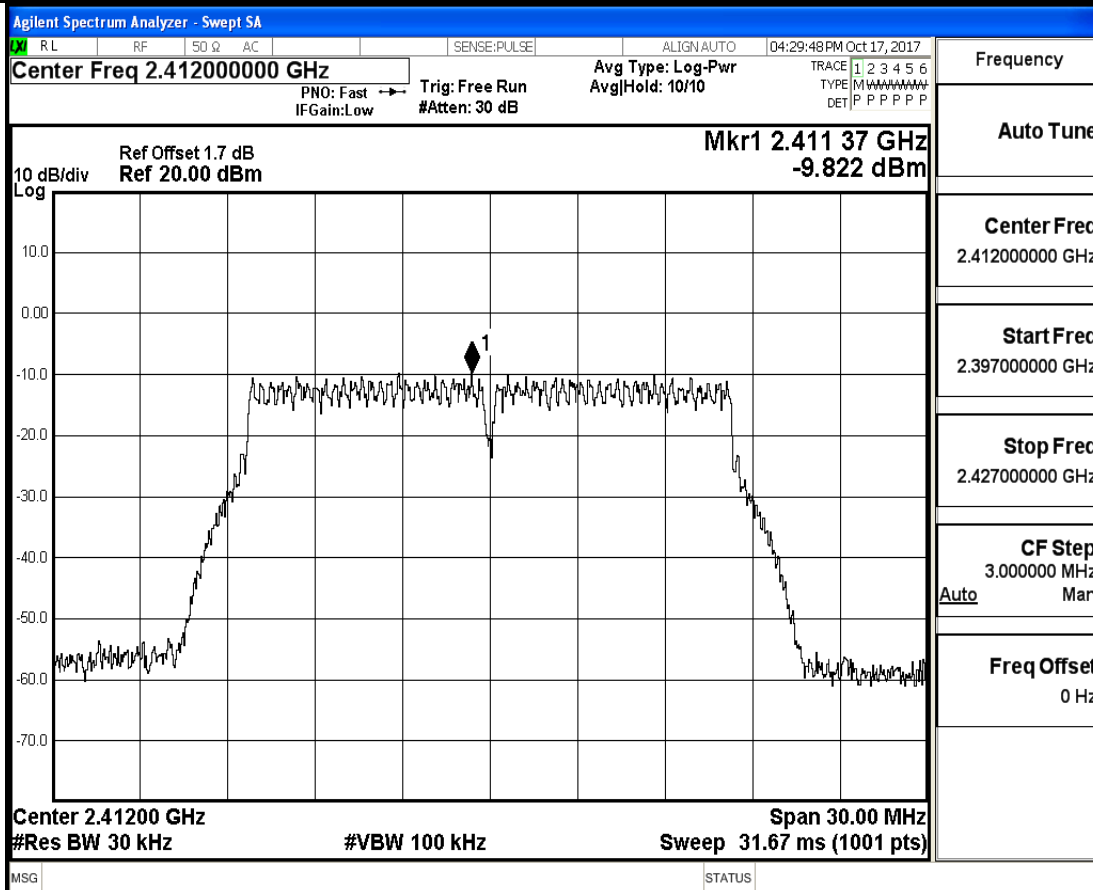
## Maximum Peak power spectral density\_11B\_2437\_Ant1



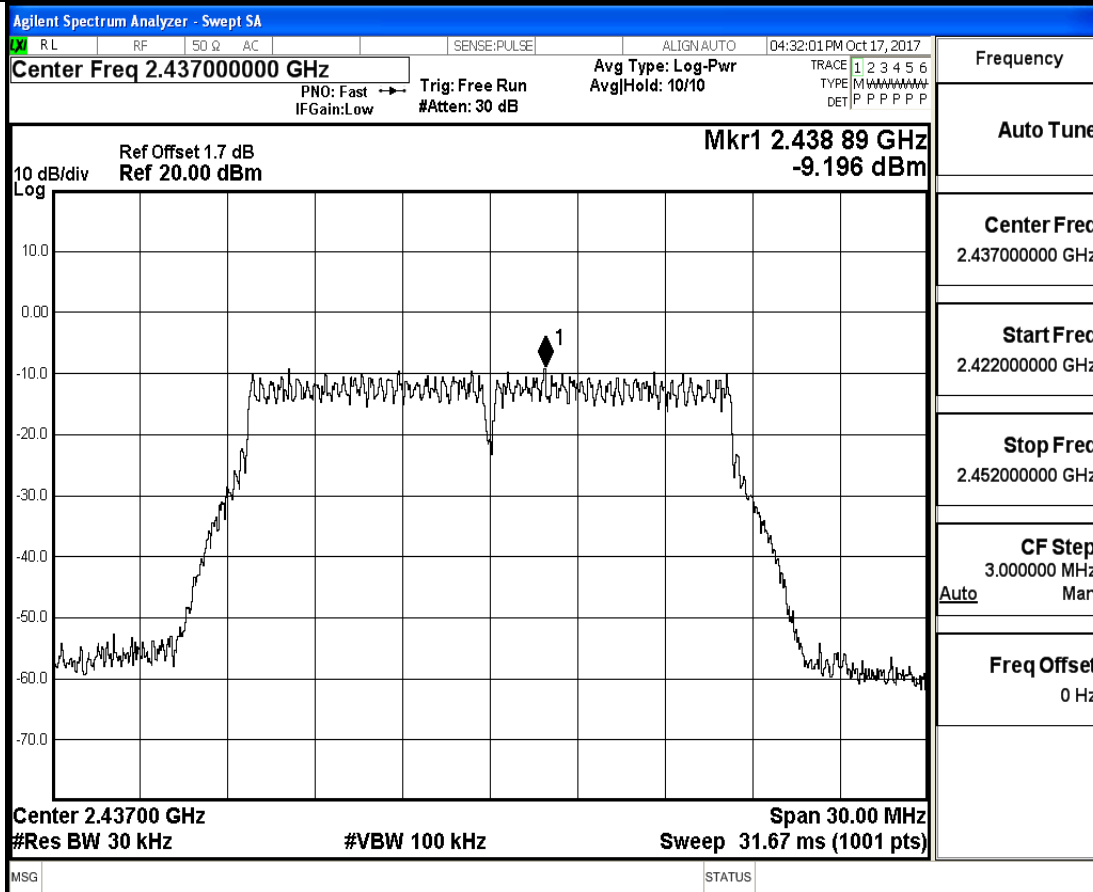
## Maximum Peak power spectral density\_11B\_2462\_Ant1



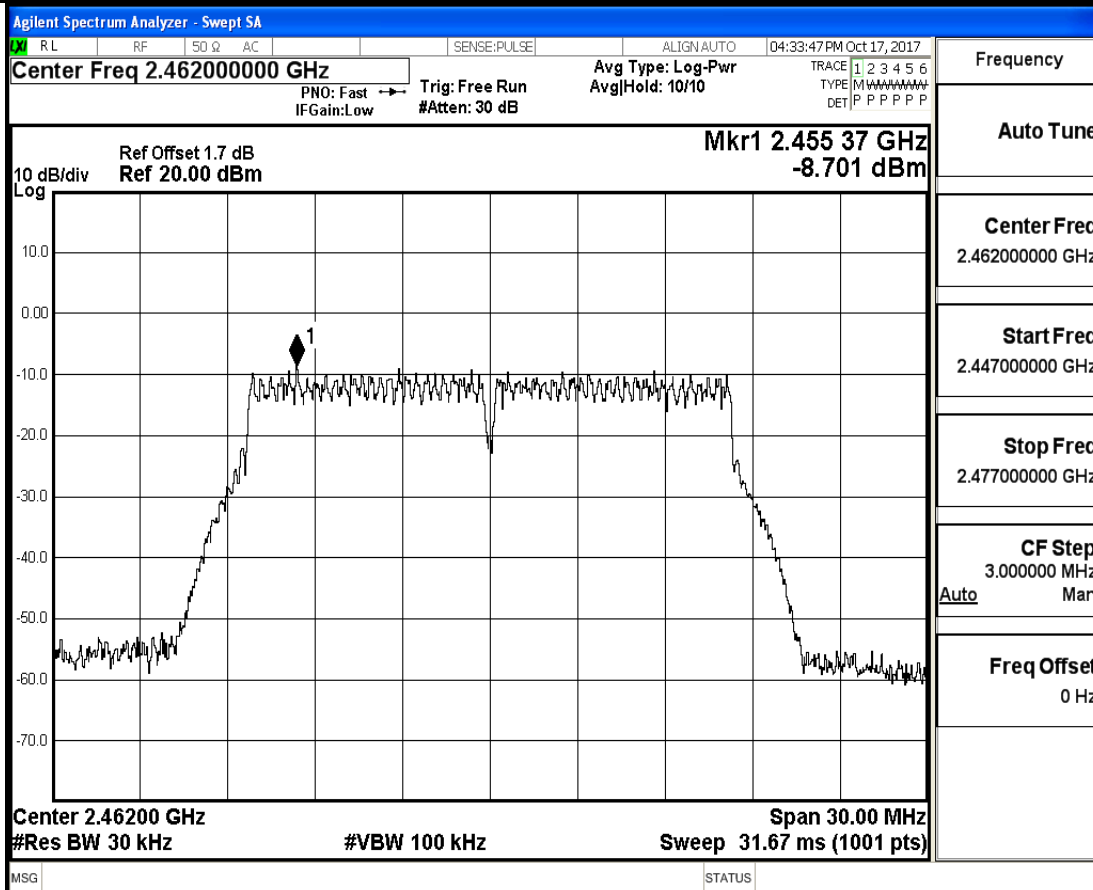
## Maximum Peak power spectral density\_11G\_2412\_Ant1



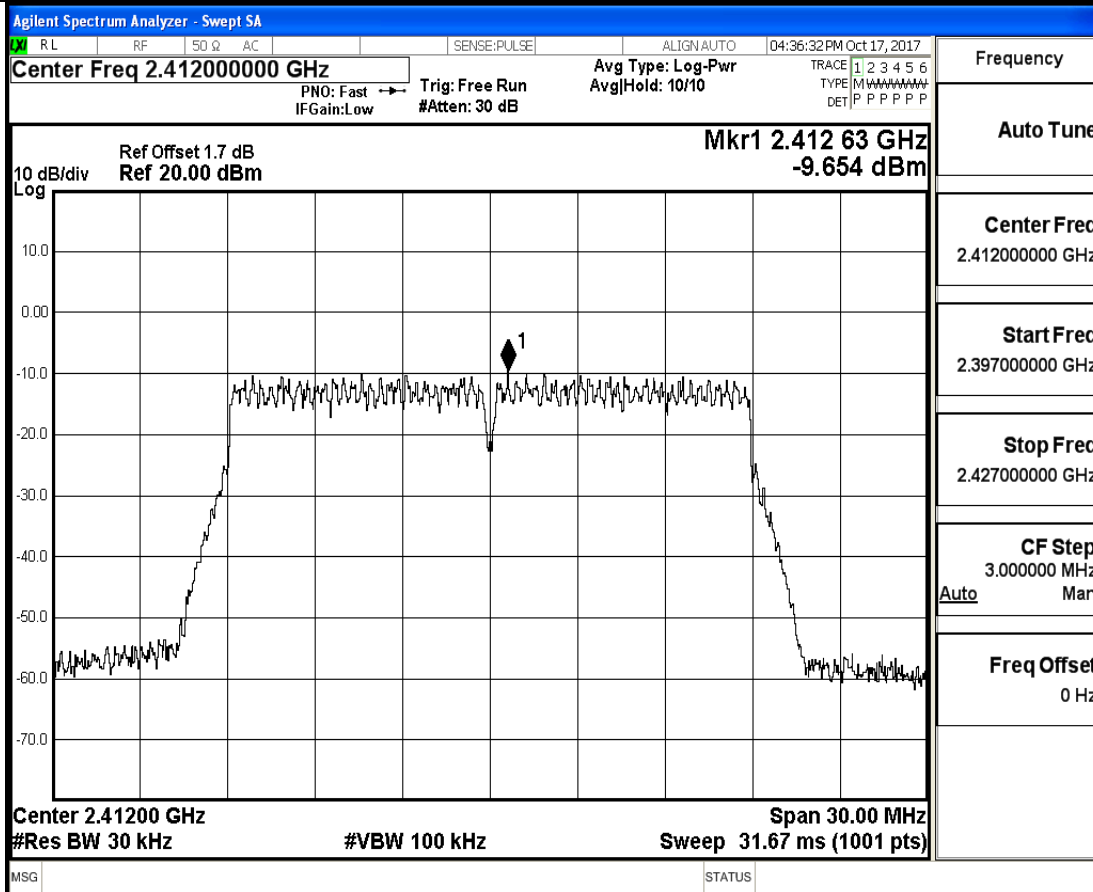
## Maximum Peak power spectral density\_11G\_2437\_Ant1



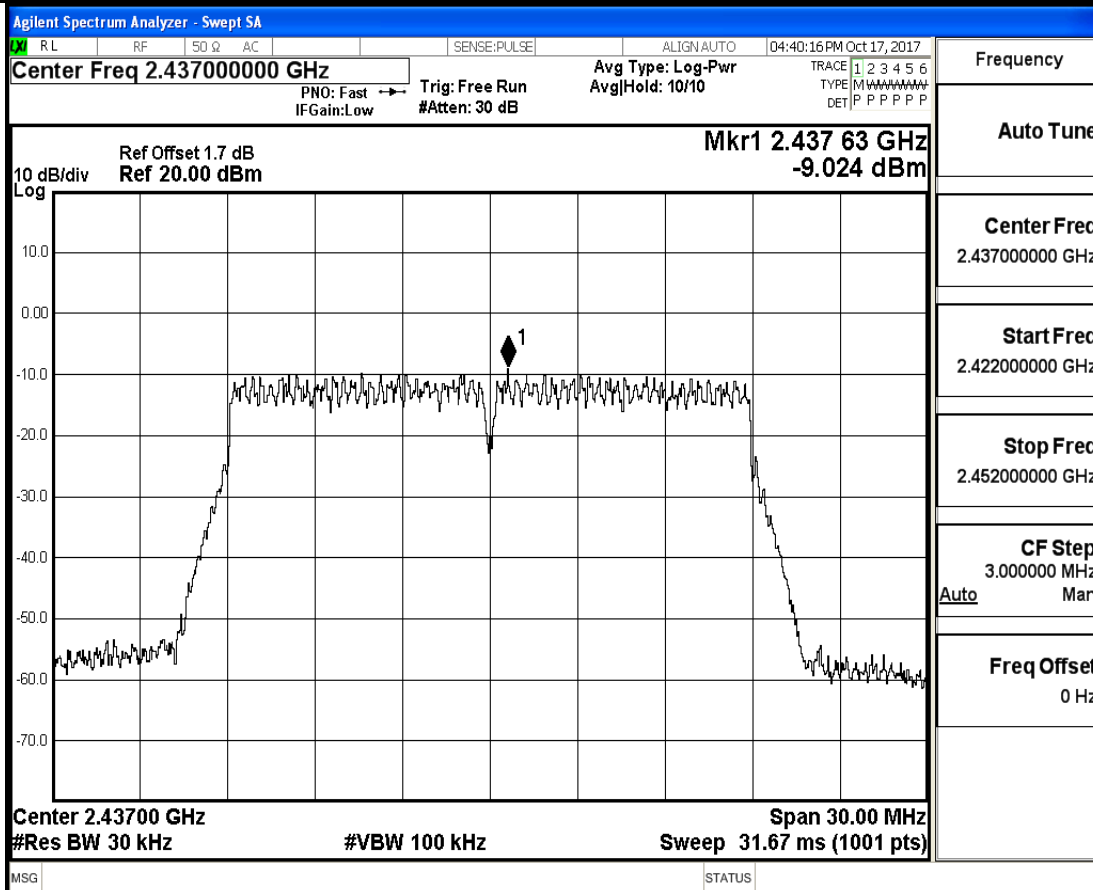
## Maximum Peak power spectral density\_11G\_2462\_Ant1



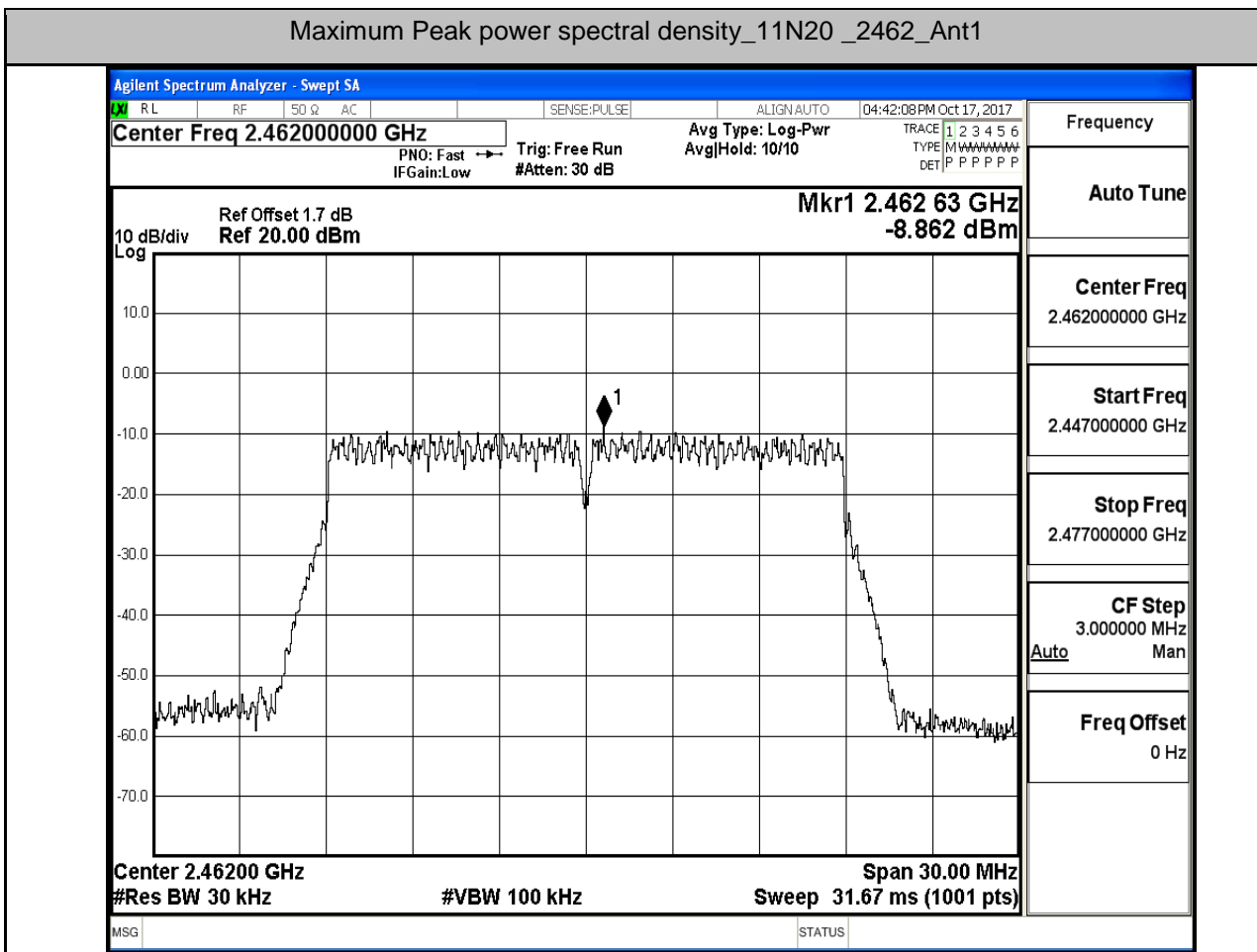
## Maximum Peak power spectral density\_11N20\_2412\_Ant1



## Maximum Peak power spectral density\_11N20\_2437\_Ant1



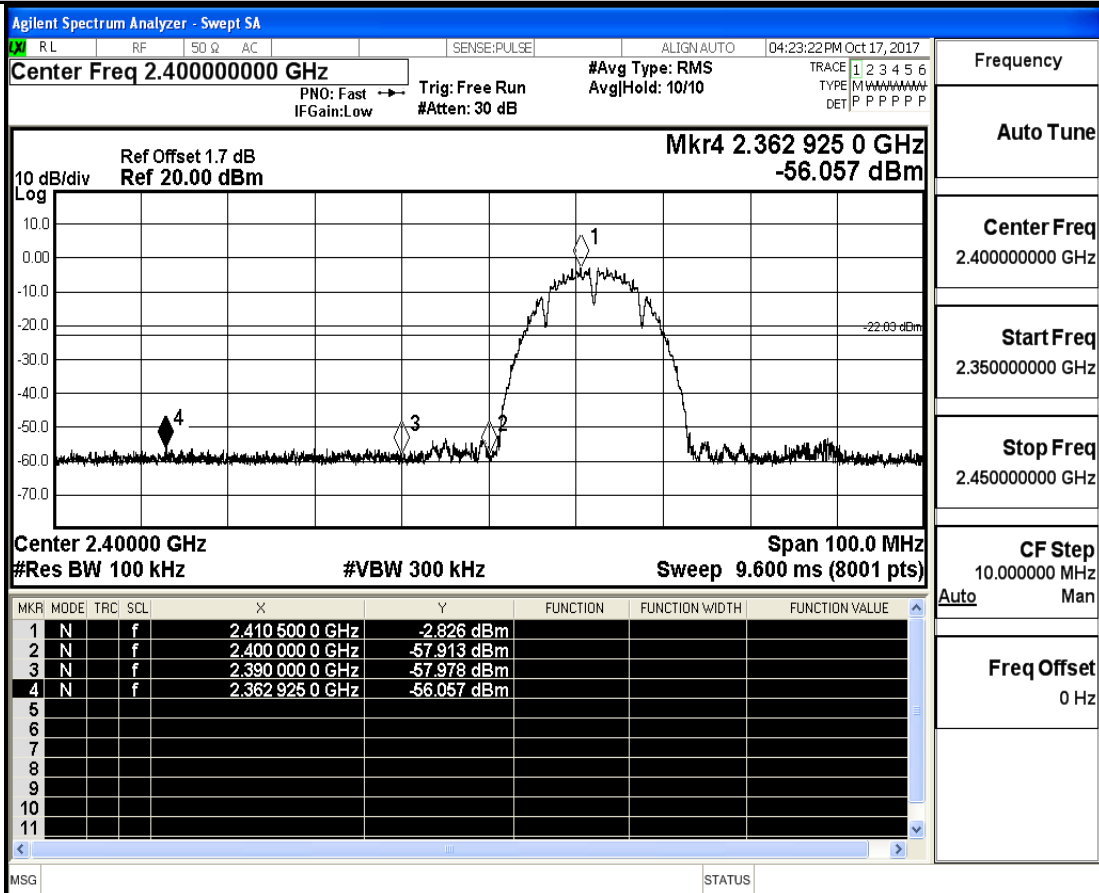
## Maximum Peak power spectral density\_11N20\_2462\_Ant1



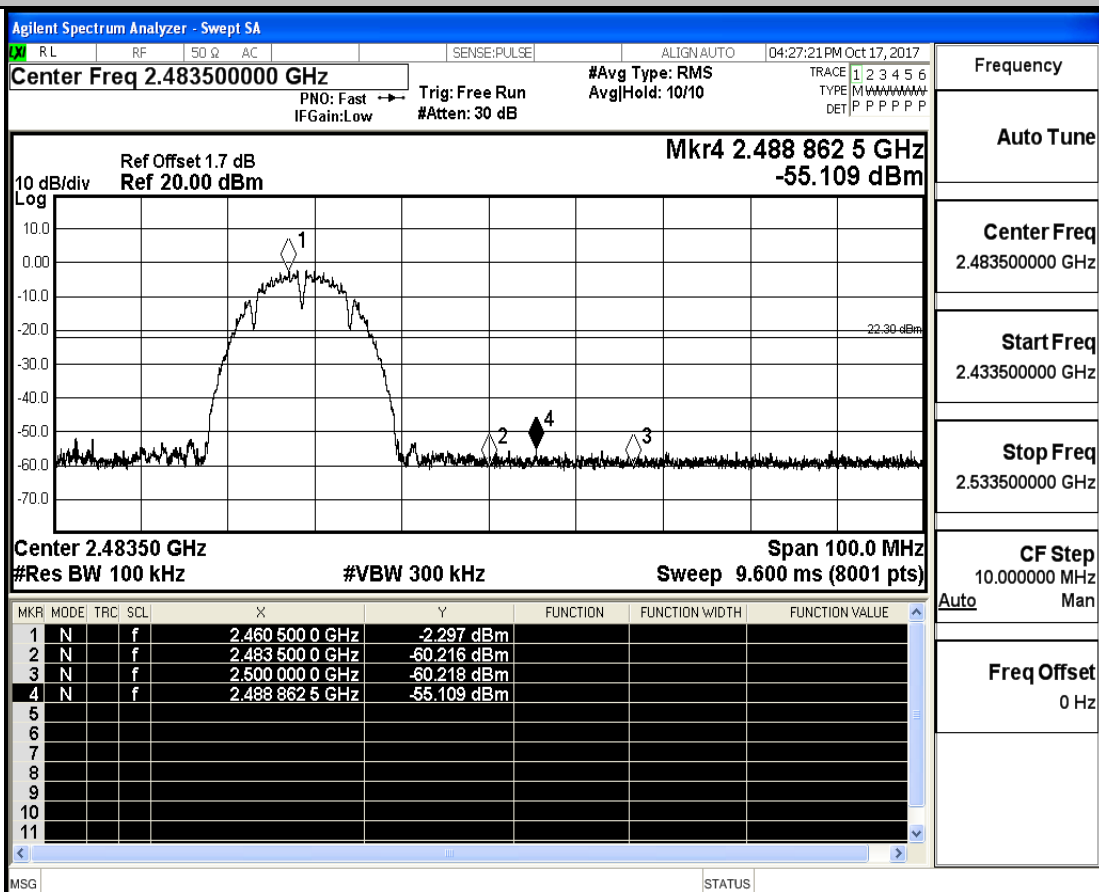
**5.Band-edge for RF Conducted Emissions**

Test Mode	Test Channel	Ant	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
11B	2412	Ant1	-2.826	-56.057	-22.83	PASS
11B	2462	Ant1	-2.297	-55.109	-22.3	PASS
11G	2412	Ant1	-6.937	-52.799	-26.94	PASS
11G	2462	Ant1	-6.300	-51.381	-26.3	PASS
11N20	2412	Ant1	-6.731	-53.460	-26.73	PASS
11N20	2462	Ant1	-6.512	-52.646	-26.51	PASS

## Band-edge for RF Conducted Emissions\_11B\_2412\_Ant1



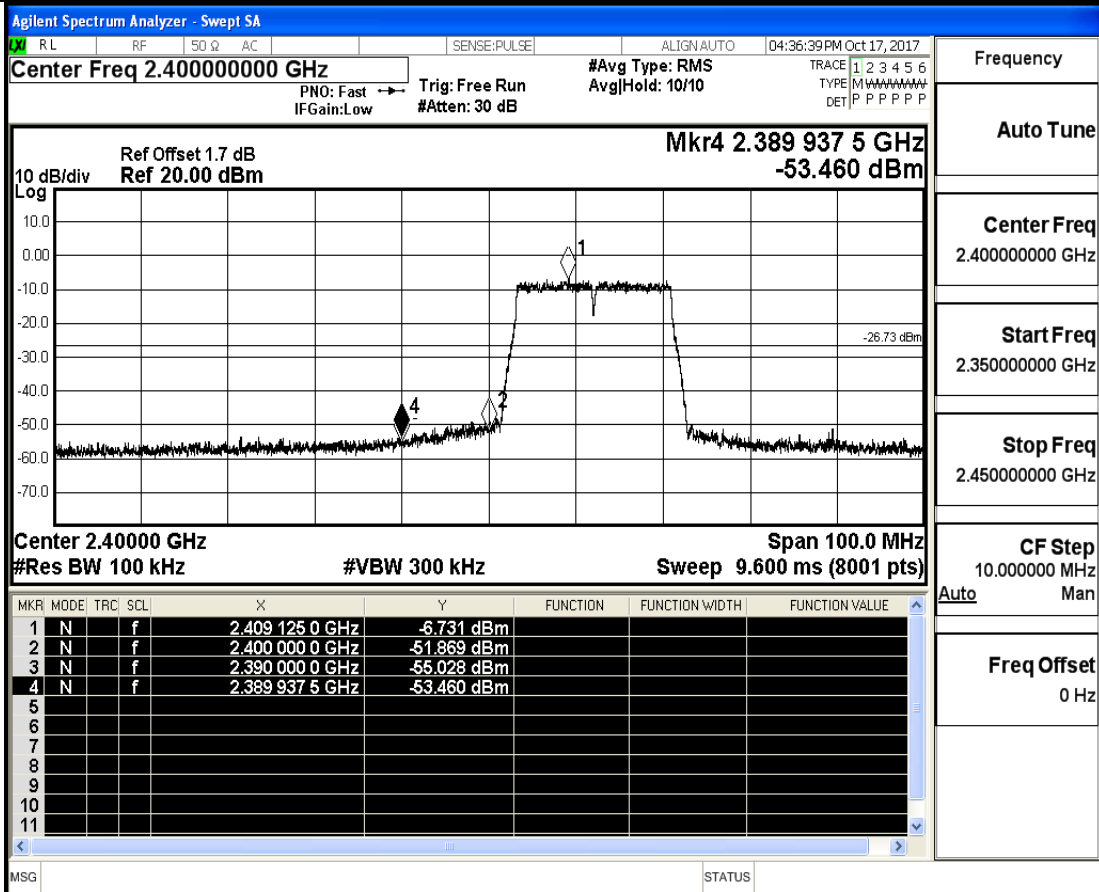
Band-edge for RF Conducted Emissions\_11B\_2462\_Ant1







## Band-edge for RF Conducted Emissions\_11N20\_2412\_Ant1



Frequency

Auto Tune

Center Freq  
2.400000000 GHz

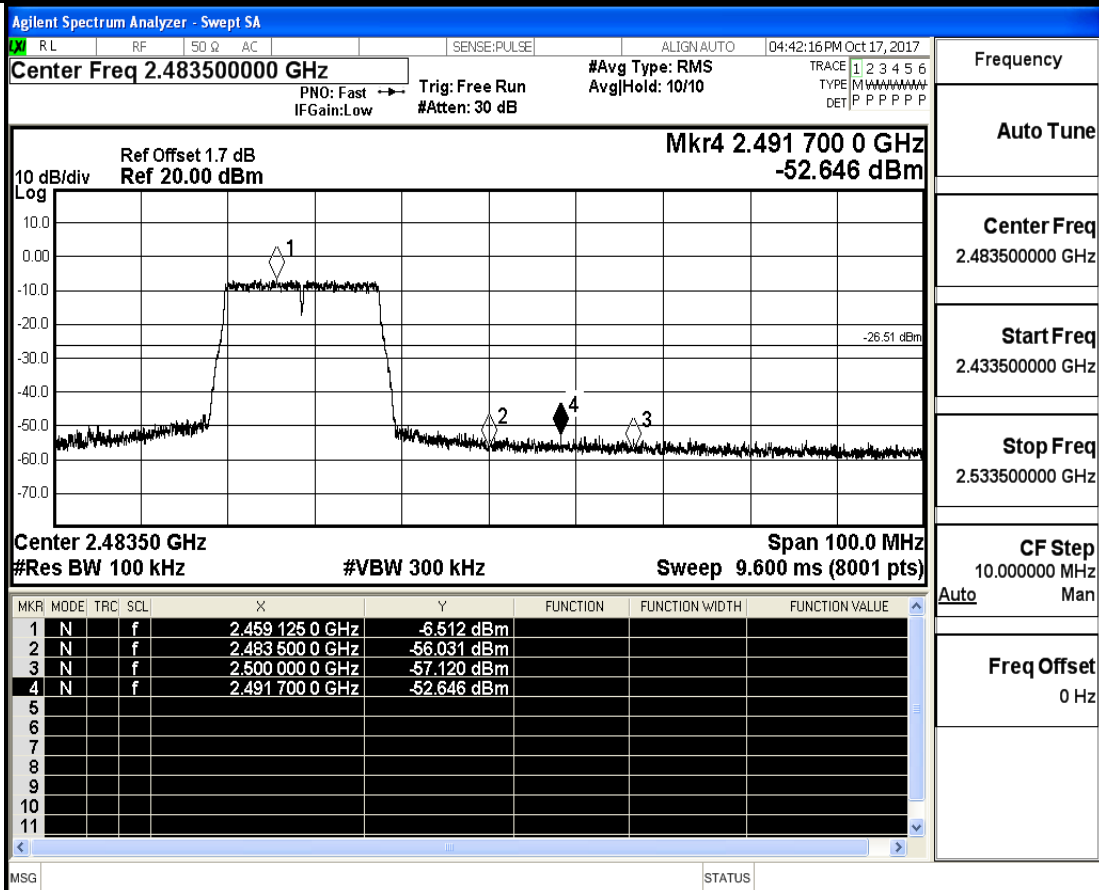
Start Freq  
2.350000000 GHz

Stop Freq  
2.450000000 GHz

CF Step  
10.000000 MHz  
Auto Man

Freq Offset  
0 Hz

## Band-edge for RF Conducted Emissions\_11N20\_2462\_Ant1



Frequency

Auto Tune

Center Freq  
2.483500000 GHz

Start Freq  
2.433500000 GHz

Stop Freq  
2.533500000 GHz

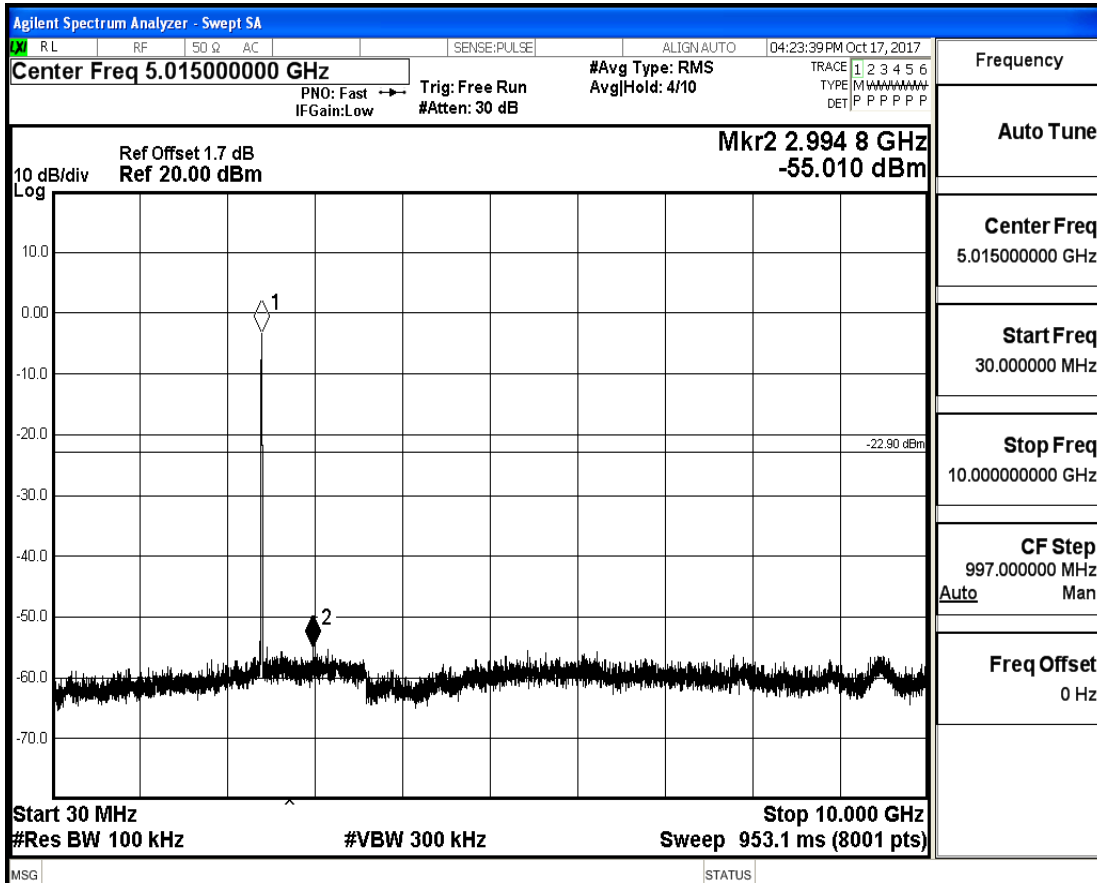
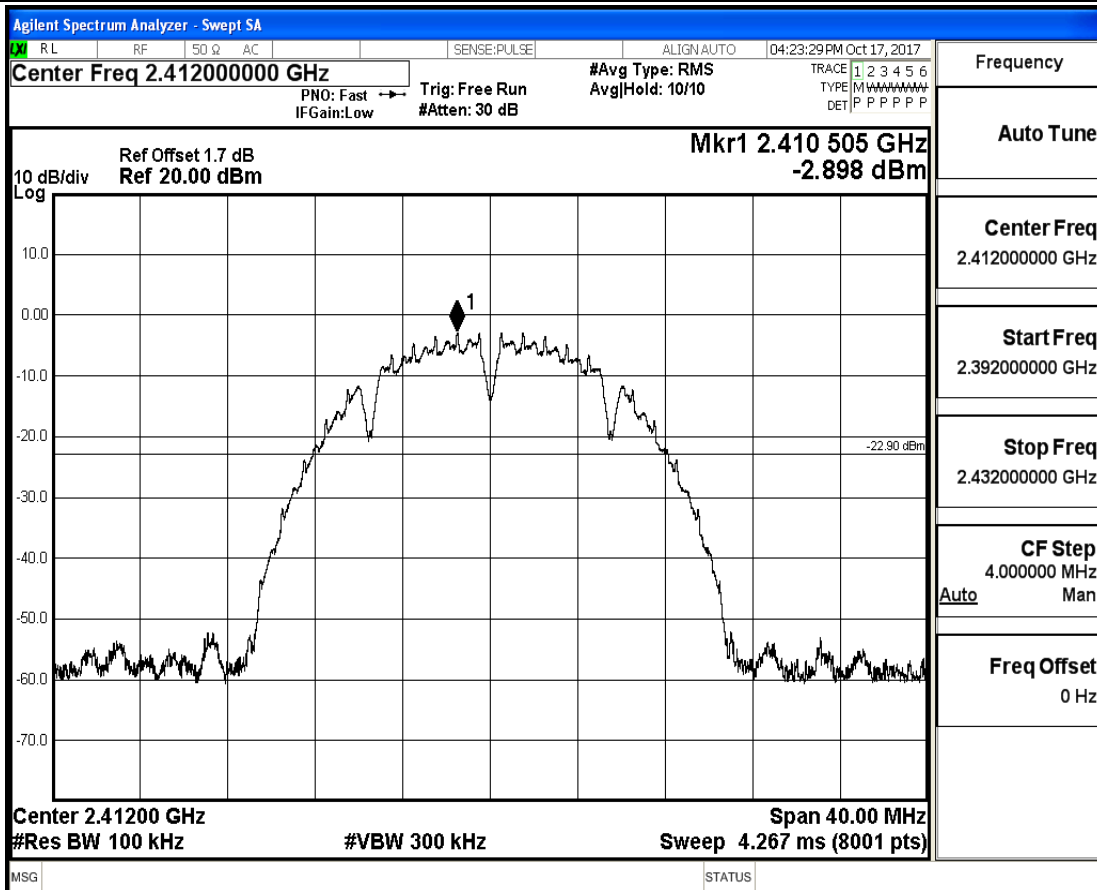
CF Step  
10.000000 MHz  
Auto Man

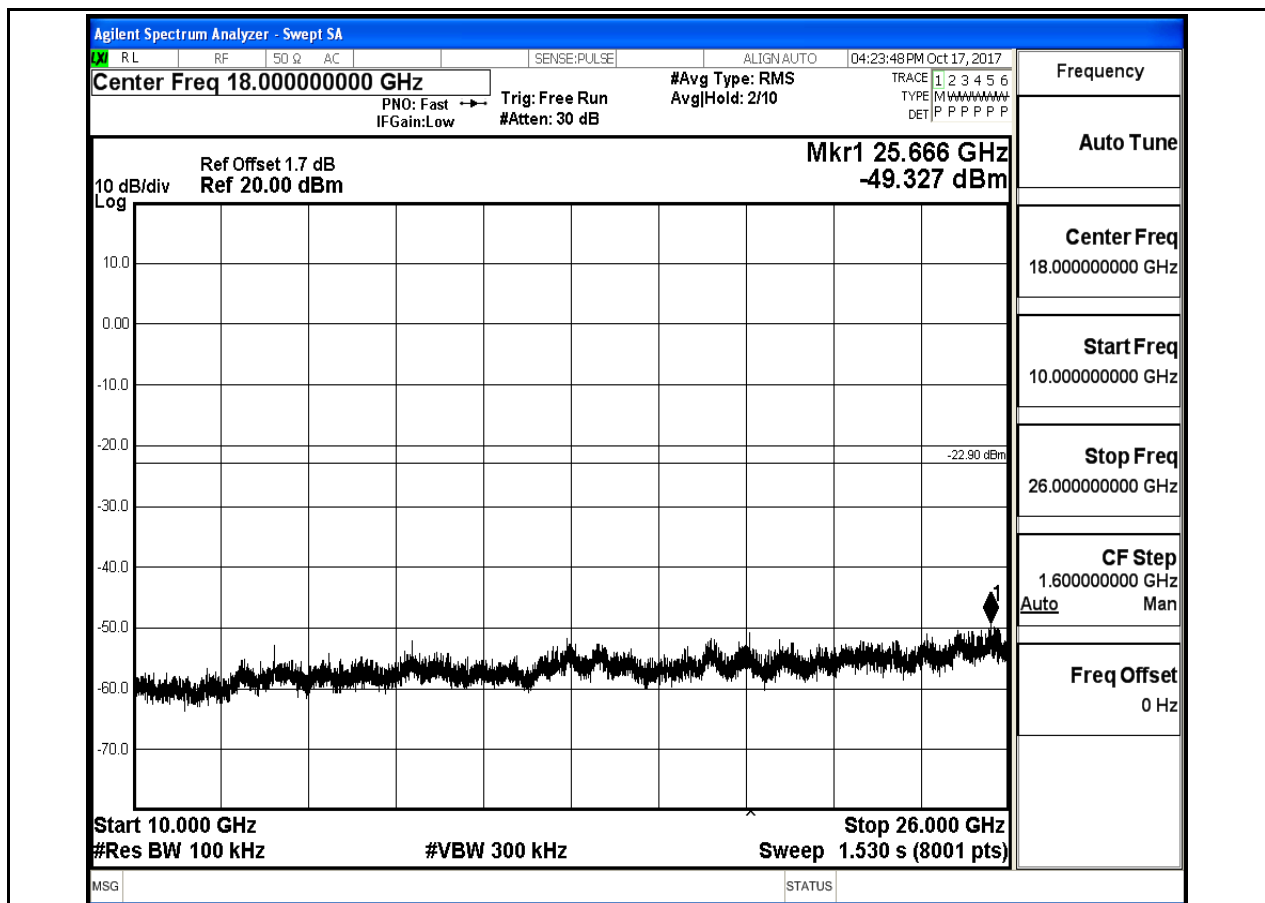
Freq Offset  
0 Hz

## 6.RF Conducted Spurious Emissions

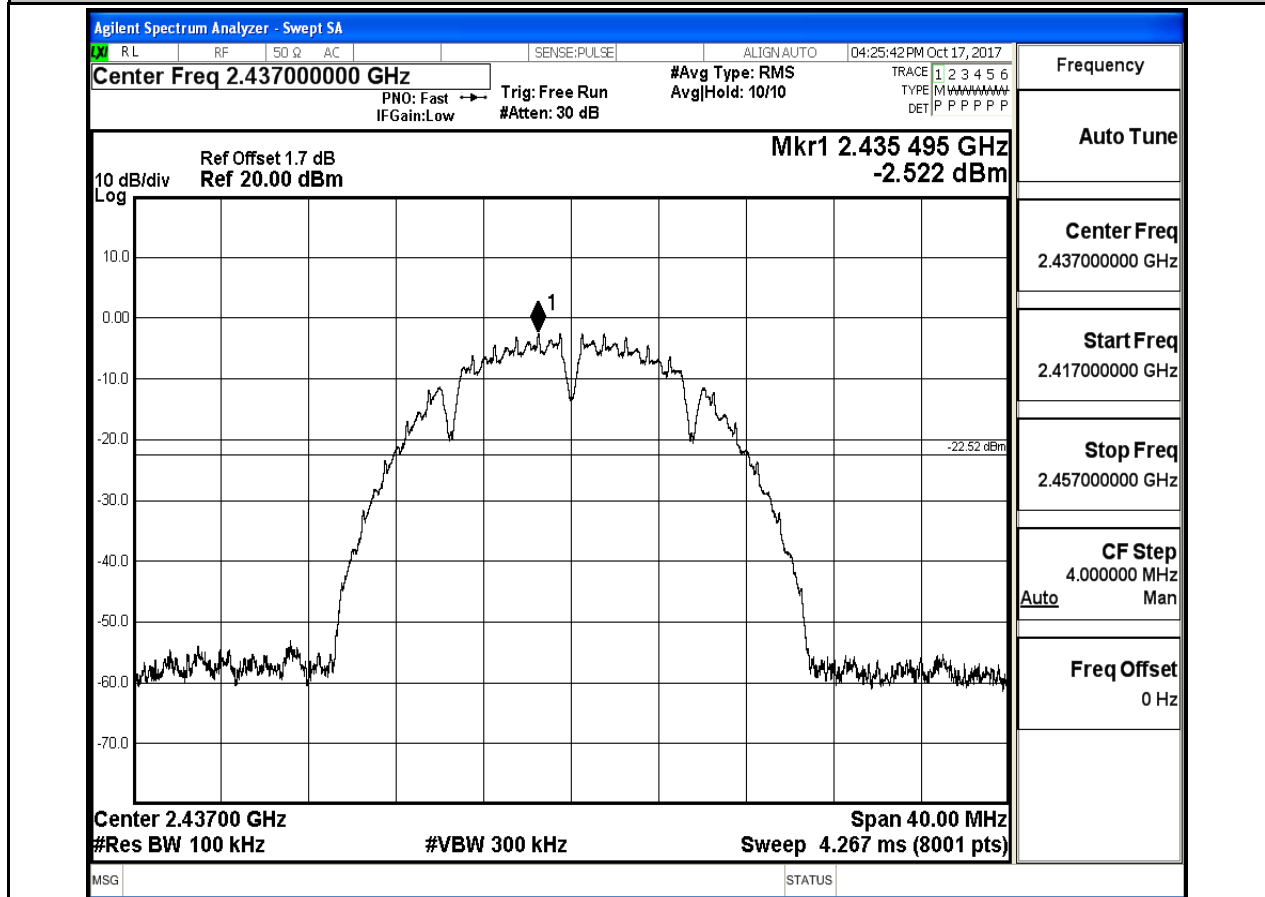
Test Mode	Test Channel	Ant	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	2412	Ant1	30	10000	100	300	-2.898	-55.010	<- 22.898	PASS
11B	2412	Ant1	10000	26000	100	300	-2.898	-49.327	<- 22.898	PASS
11B	2437	Ant1	30	10000	100	300	-2.522	-54.879	<- 22.522	PASS
11B	2437	Ant1	10000	26000	100	300	-2.522	-49.195	<- 22.522	PASS
11B	2462	Ant1	30	10000	100	300	-2.366	-55.034	<- 22.366	PASS
11B	2462	Ant1	10000	26000	100	300	-2.366	-49.669	<- 22.366	PASS
11G	2412	Ant1	30	10000	100	300	-6.934	-55.285	<- 26.934	PASS
11G	2412	Ant1	10000	26000	100	300	-6.934	-50.141	<- 26.934	PASS
11G	2437	Ant1	30	10000	100	300	-6.773	-55.192	<- 26.773	PASS
11G	2437	Ant1	10000	26000	100	300	-6.773	-49.323	<- 26.773	PASS
11G	2462	Ant1	30	10000	100	300	-6.367	-55.181	<- 26.367	PASS
11G	2462	Ant1	10000	26000	100	300	-6.367	-49.570	<- 26.367	PASS
11N20	2412	Ant1	30	10000	100	300	-6.804	-55.517	<- 26.804	PASS
11N20	2412	Ant1	10000	26000	100	300	-6.804	-49.490	<- 26.804	PASS
11N20	2437	Ant1	30	10000	100	300	-6.264	-54.996	<- 26.264	PASS
11N20	2437	Ant1	10000	26000	100	300	-6.264	-49.587	<- 26.264	PASS
11N20	2462	Ant1	30	10000	100	300	-6.236	-55.185	<- 26.236	PASS
11N20	2462	Ant1	10000	26000	100	300	-6.236	-49.927	<- 26.236	PASS

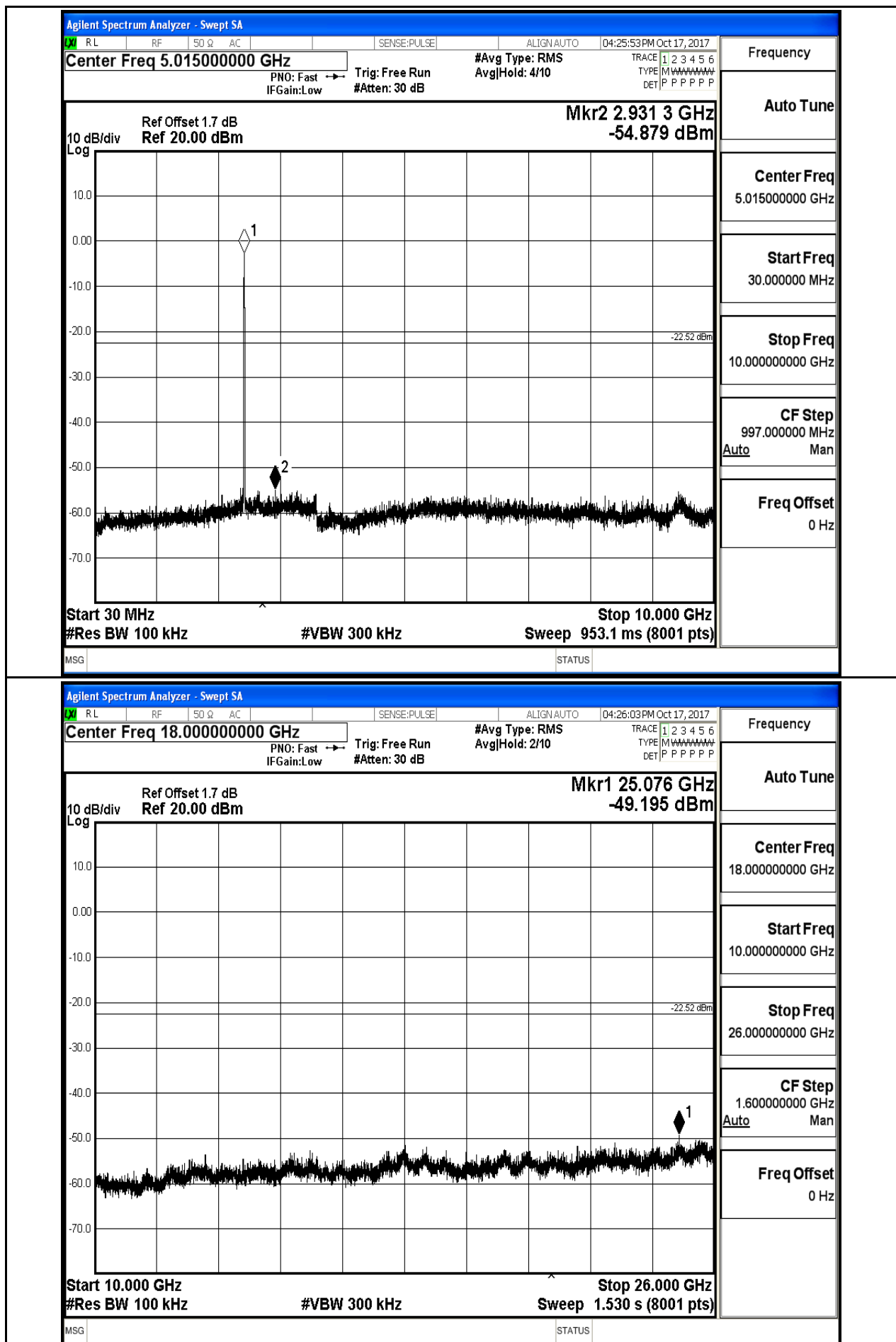
## RF Conducted Spurious Emissions\_11B\_2412\_Ant1



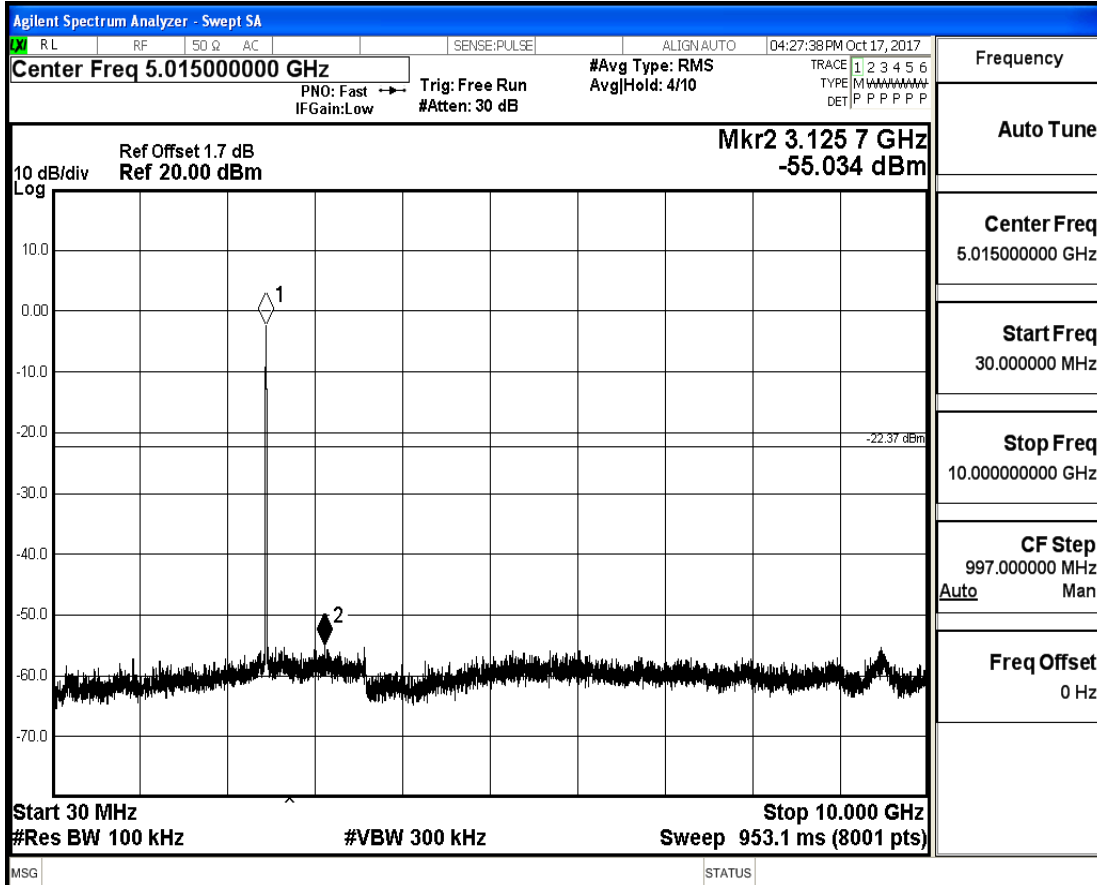
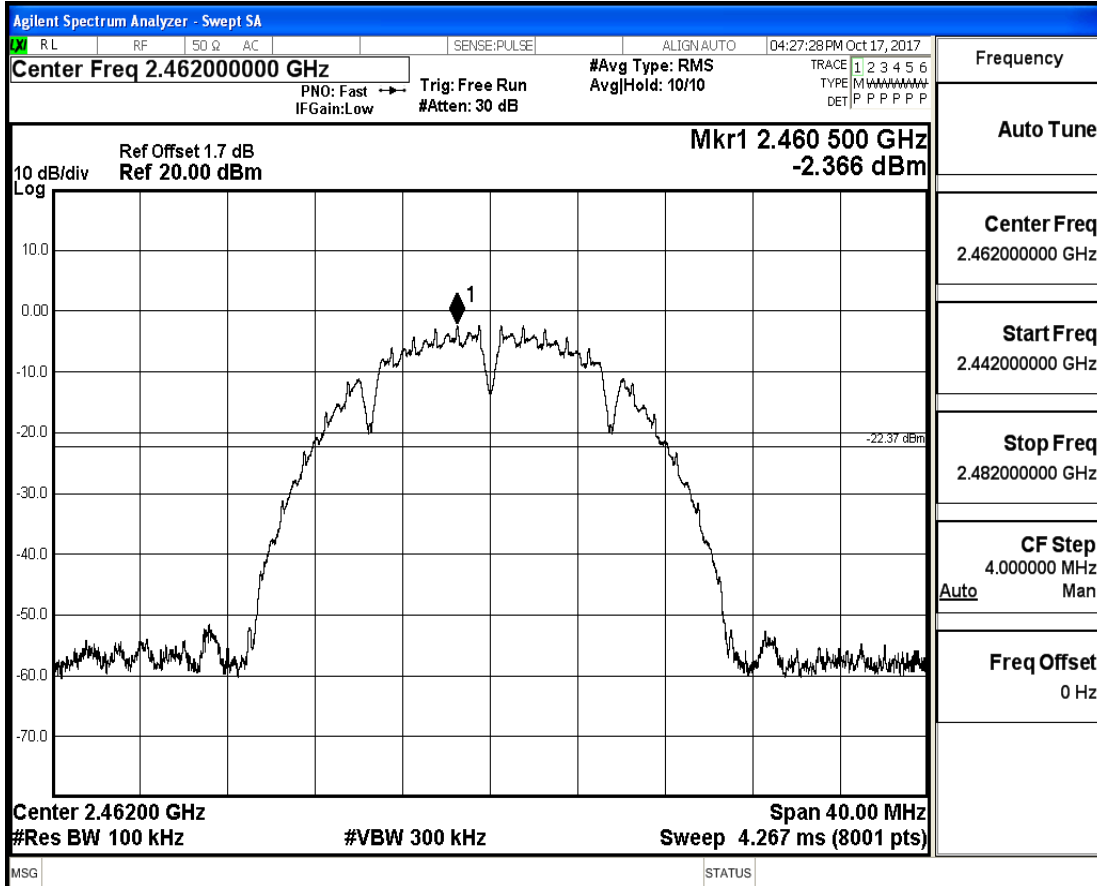


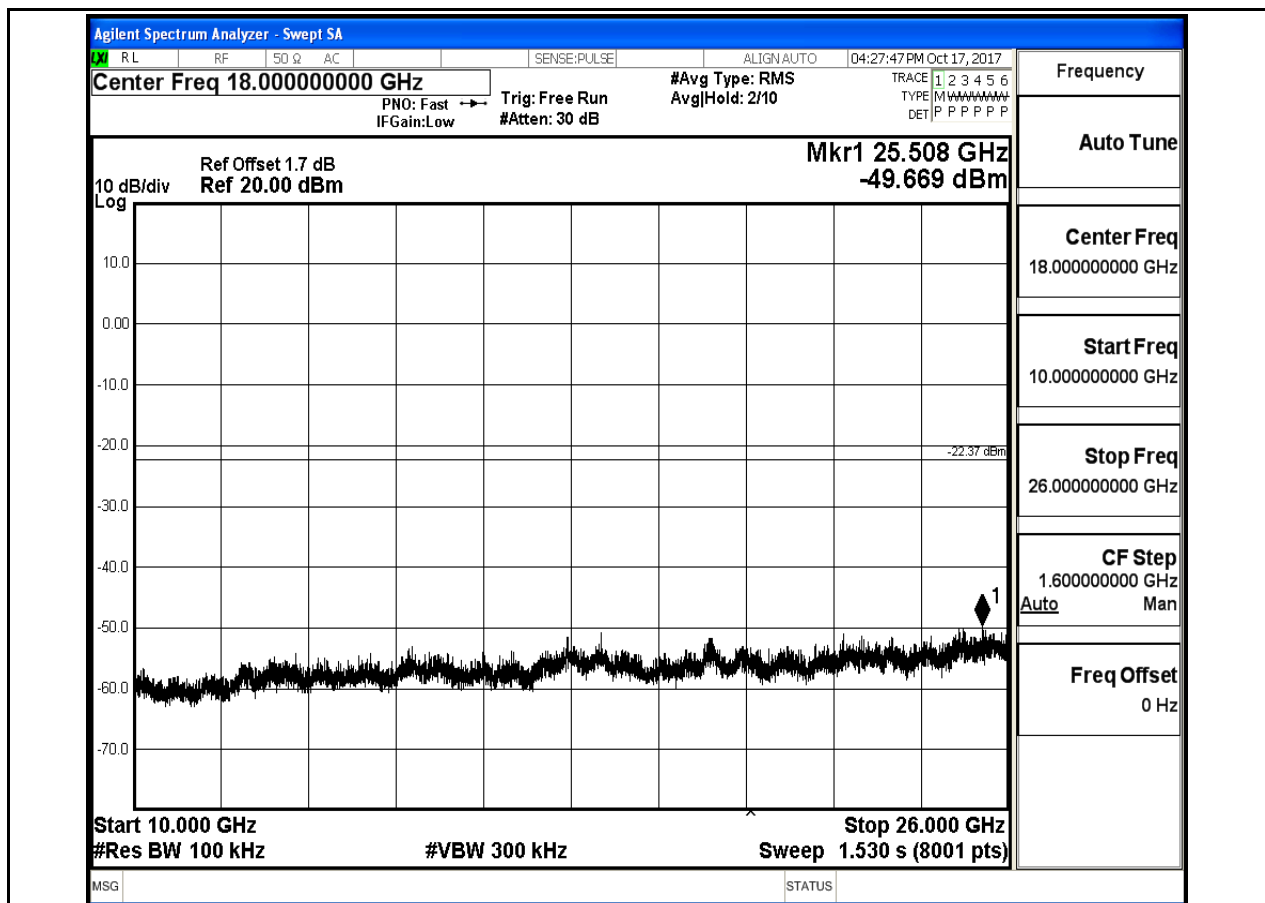
RF Conducted Spurious Emissions\_11B\_2437\_Ant1



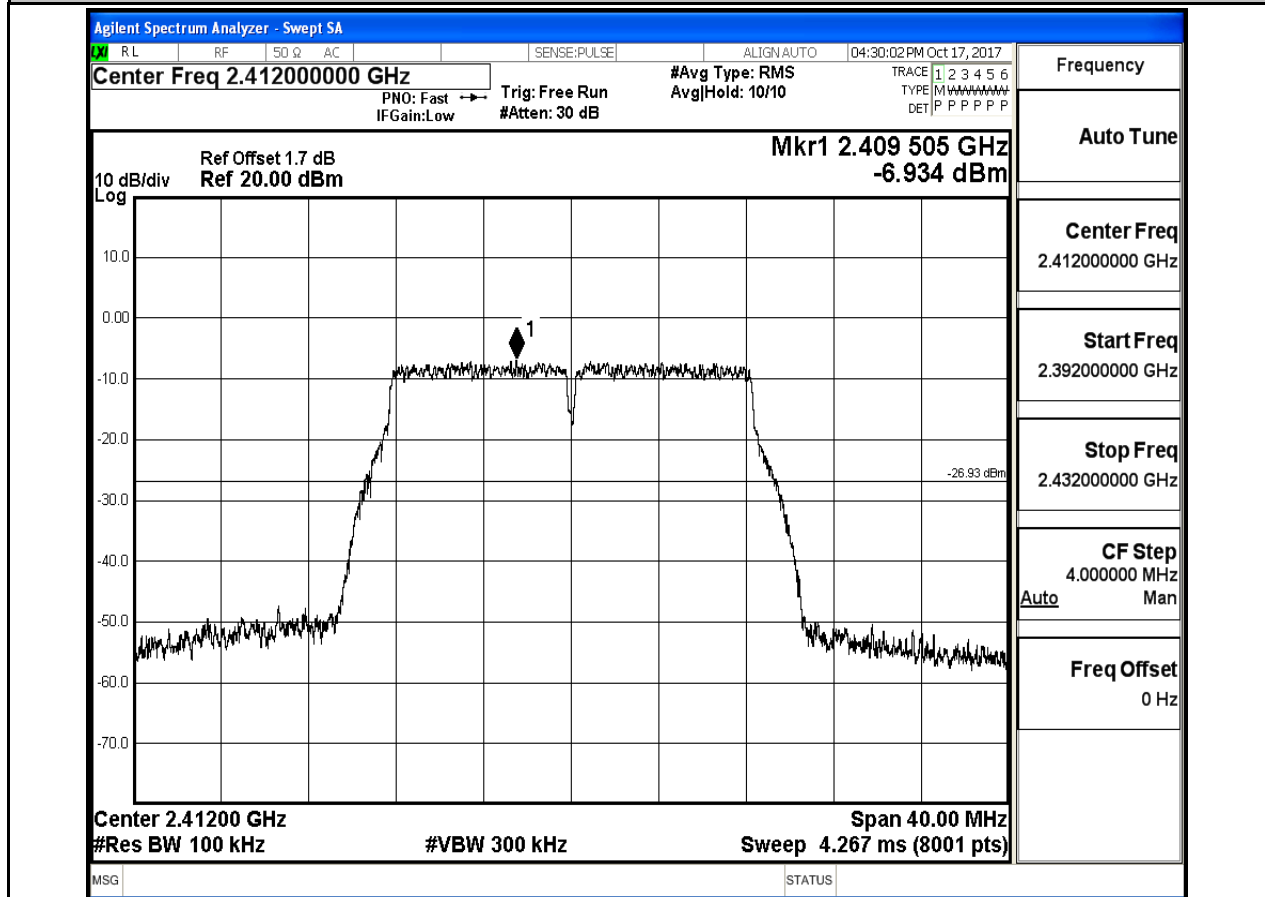


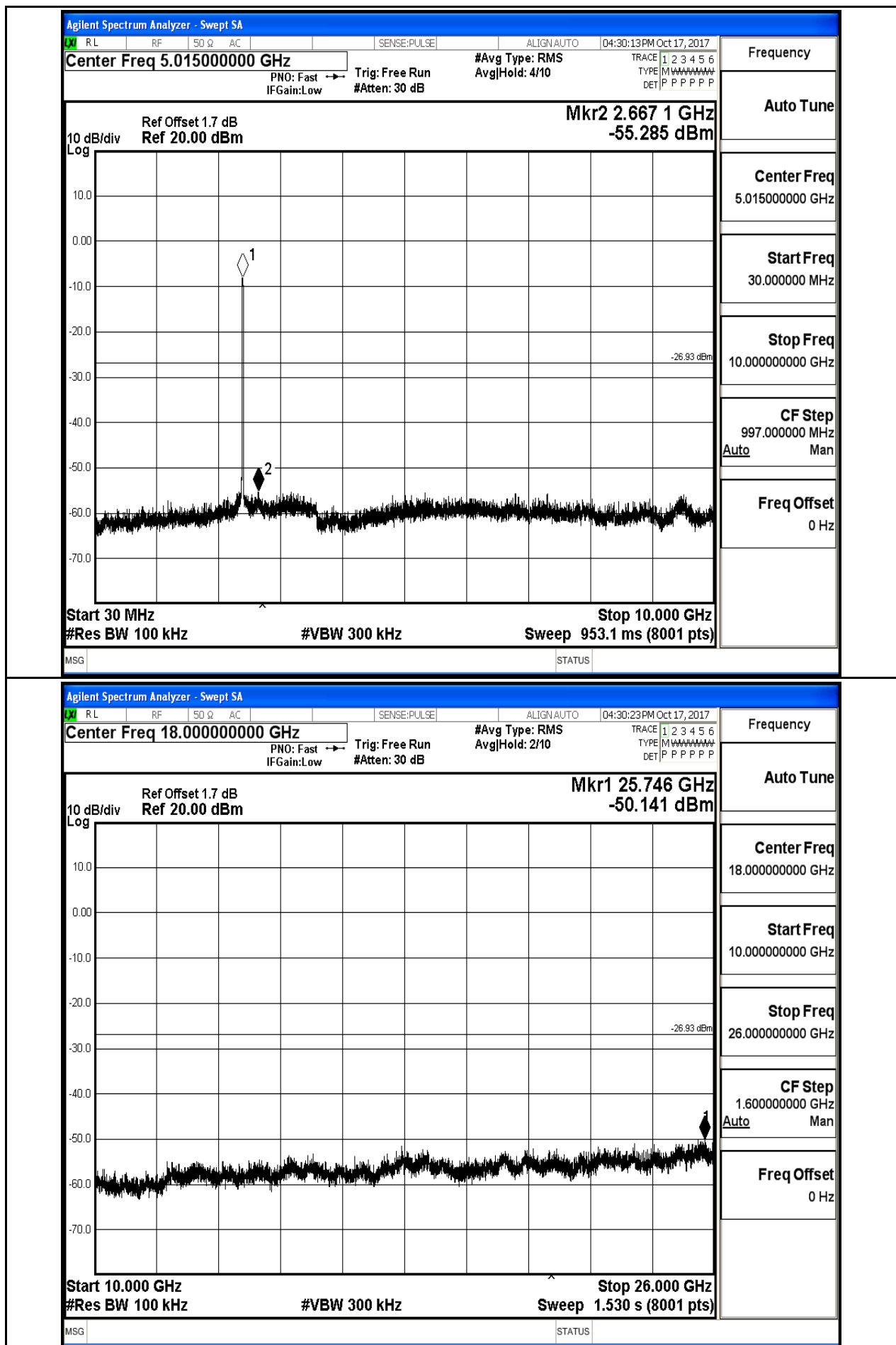
## RF Conducted Spurious Emissions\_11B\_2462\_Ant1





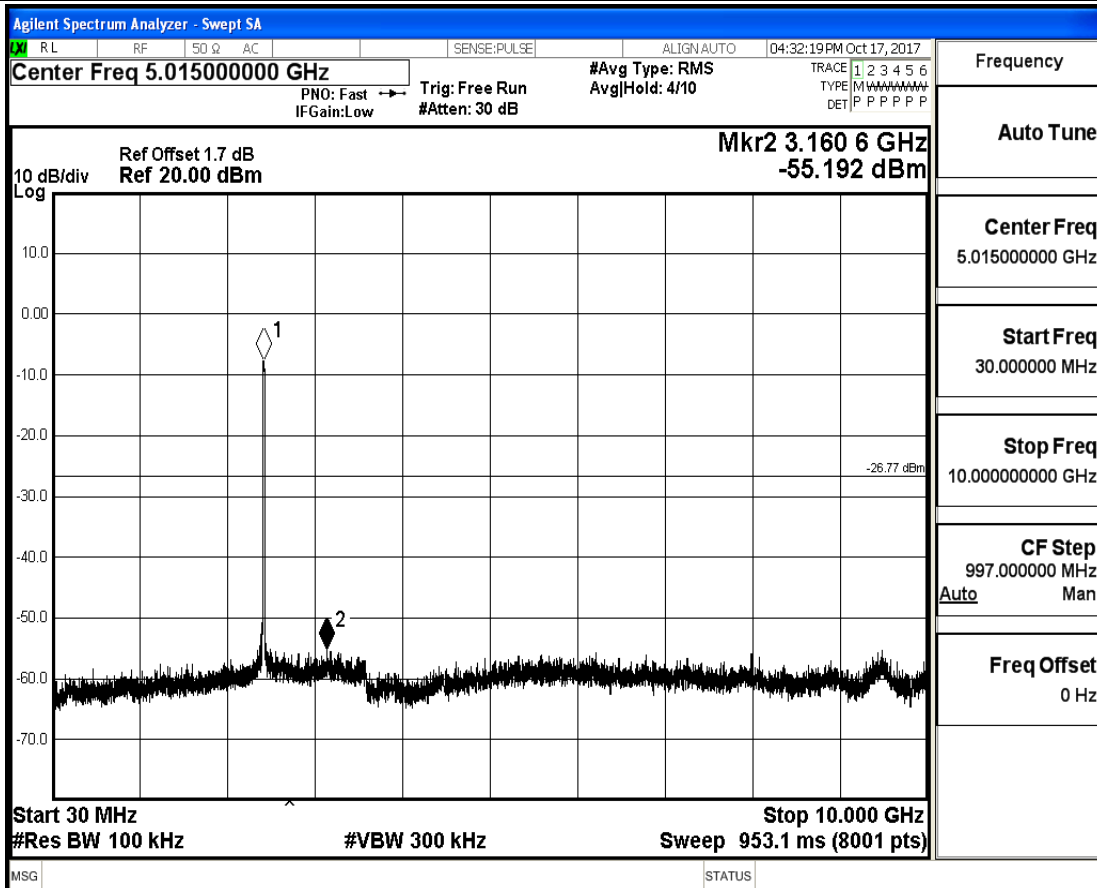
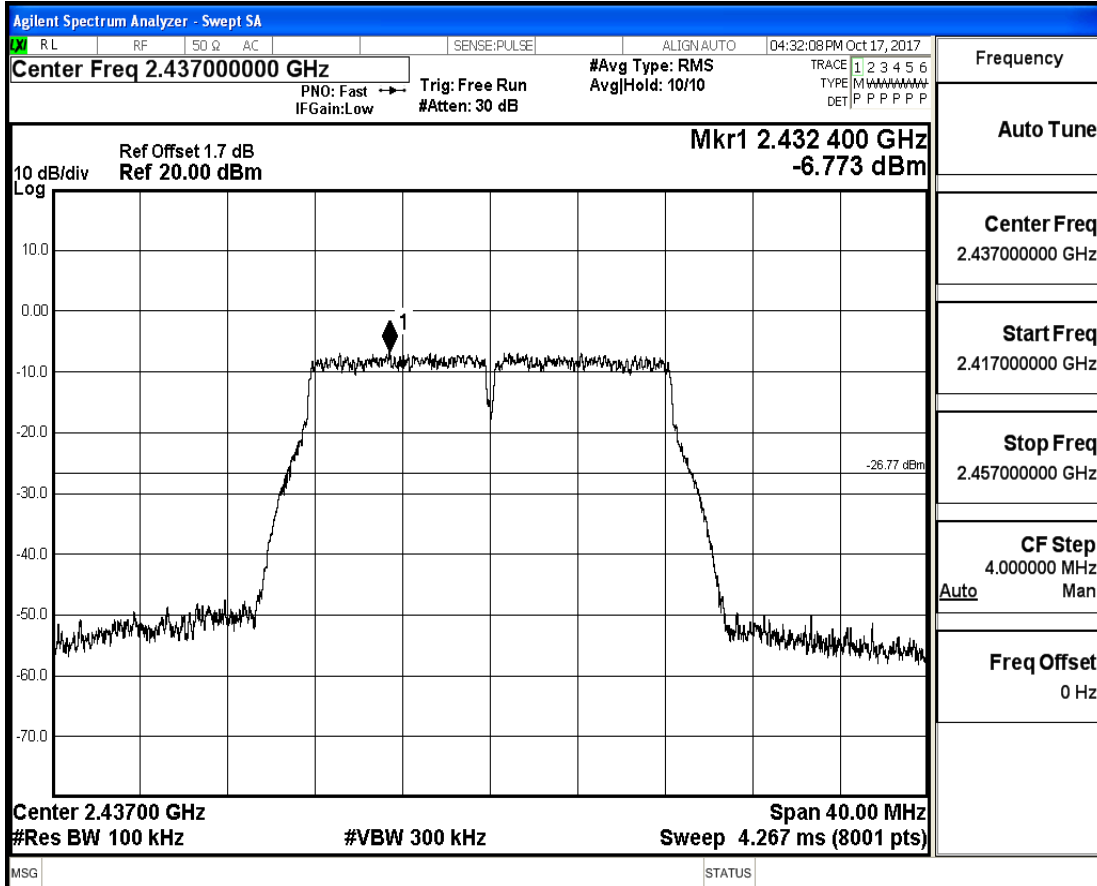
## RF Conducted Spurious Emissions\_11G\_2412\_Ant1

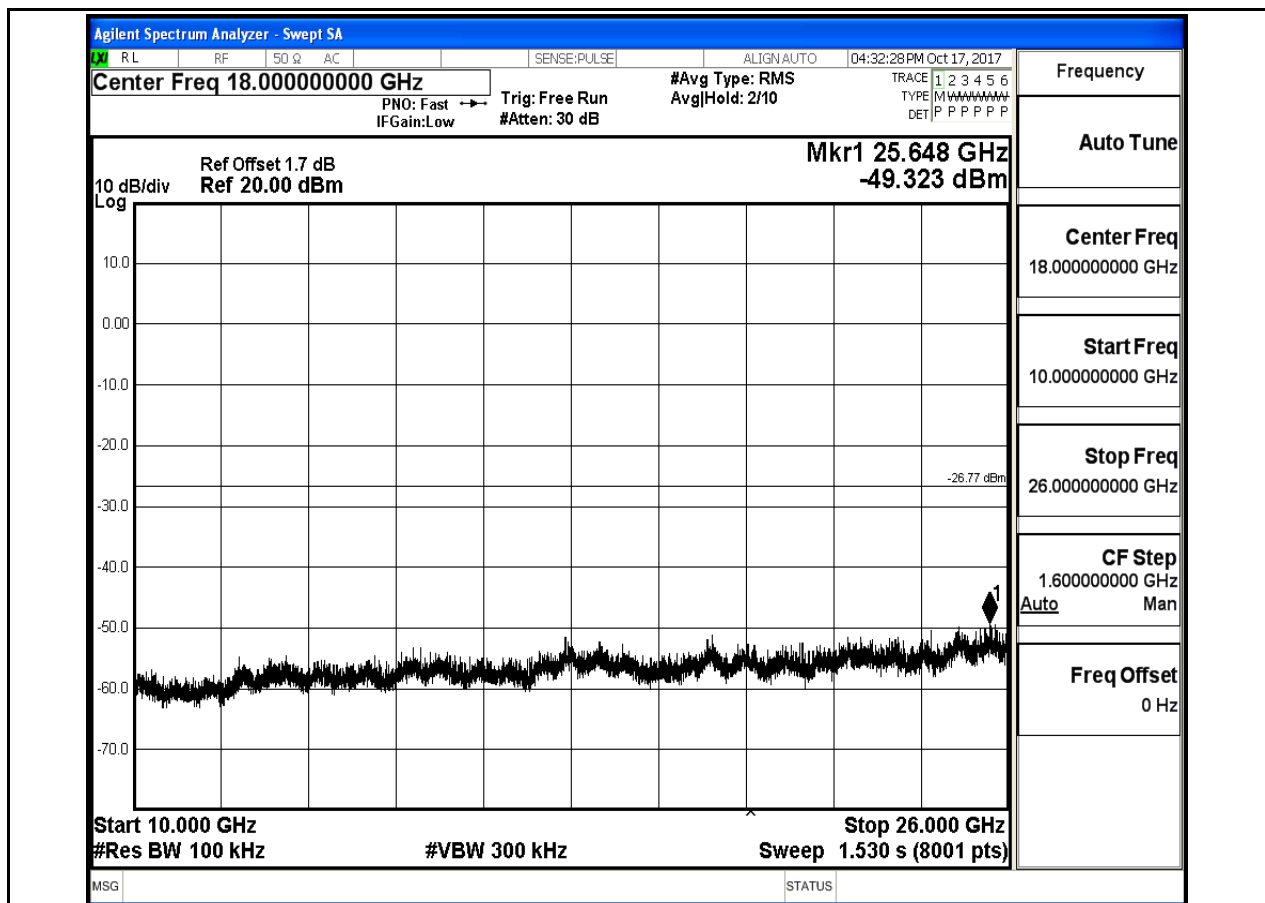




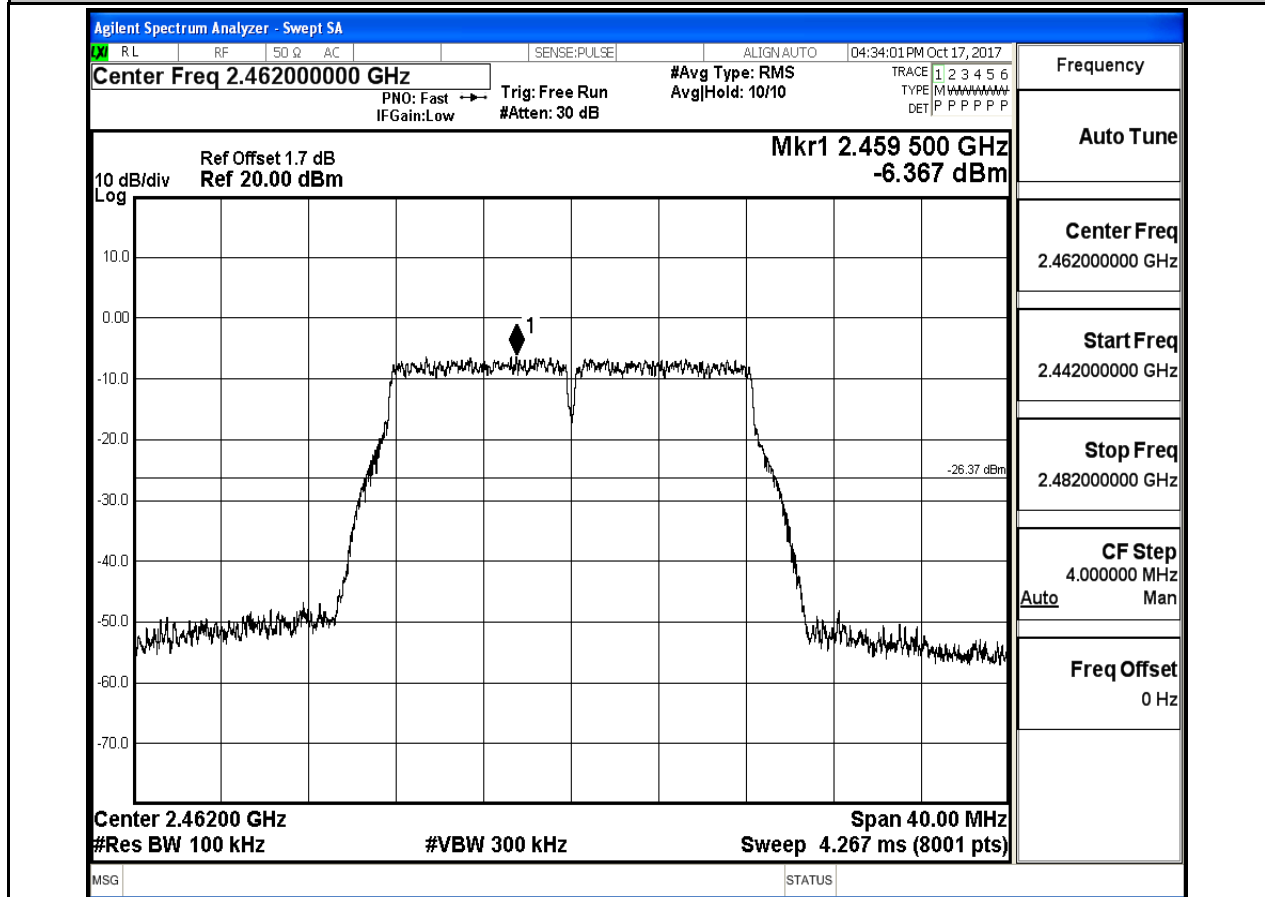


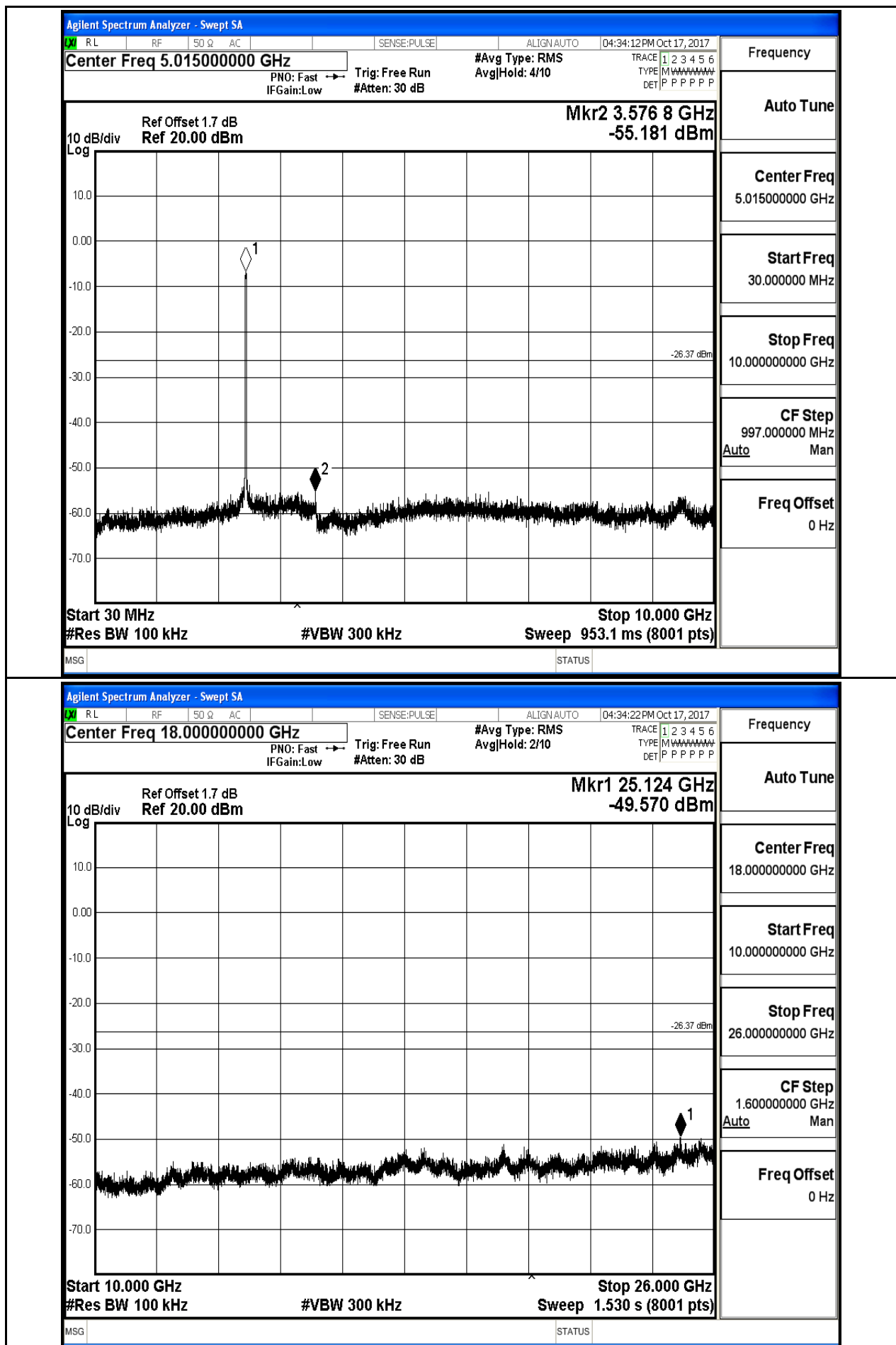
## RF Conducted Spurious Emissions\_11G\_2437\_Ant1





RF Conducted Spurious Emissions\_11G\_2462\_Ant1





Frequency

Auto Tune

Center Freq  
18.000000000 GHz

Start Freq  
10.000000000 GHz

Stop Freq  
26.000000000 GHz

CF Step  
1.600000000 GHz  
Auto Man

Freq Offset  
0 Hz

Ref Offset 1.7 dB

Ref 20.00 dBm

Mkr1 25.124 GHz

-49.570 dBm

10 dB/div

Log

Start 10.000 GHz

Stop 26.000 GHz

#Res BW 100 kHz

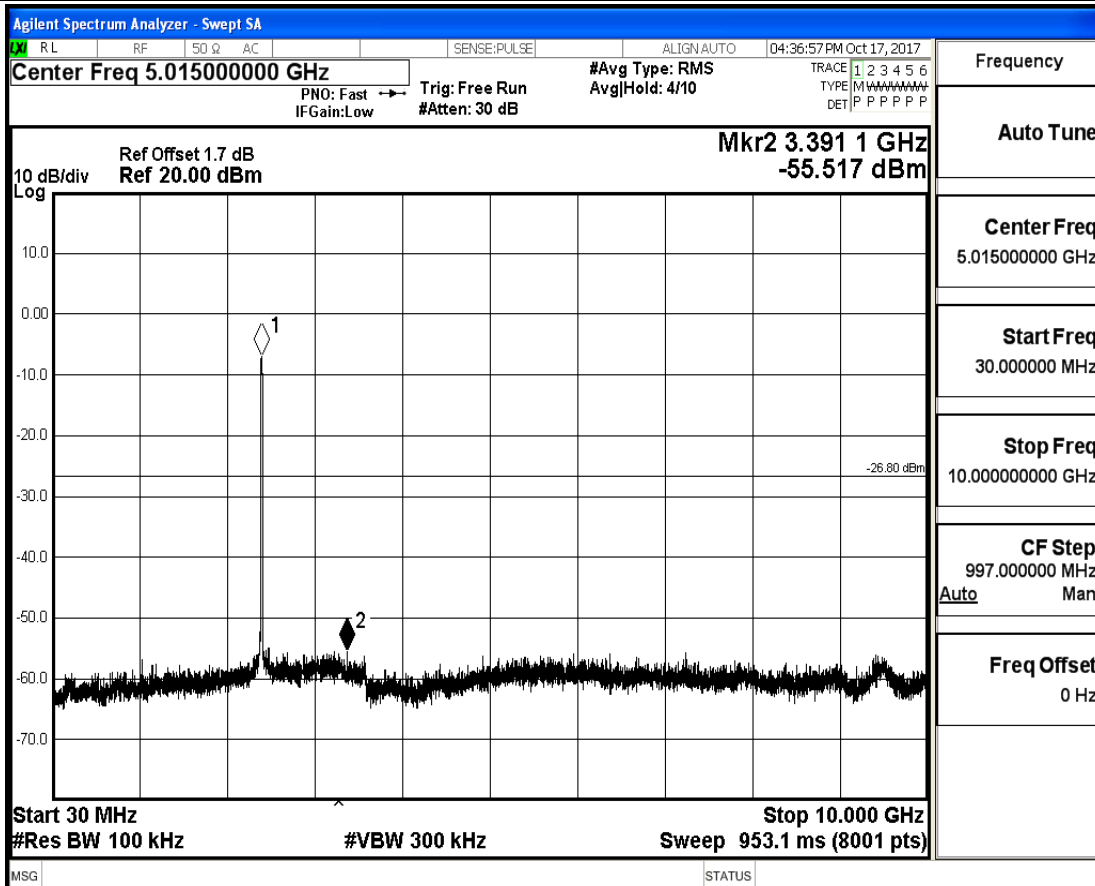
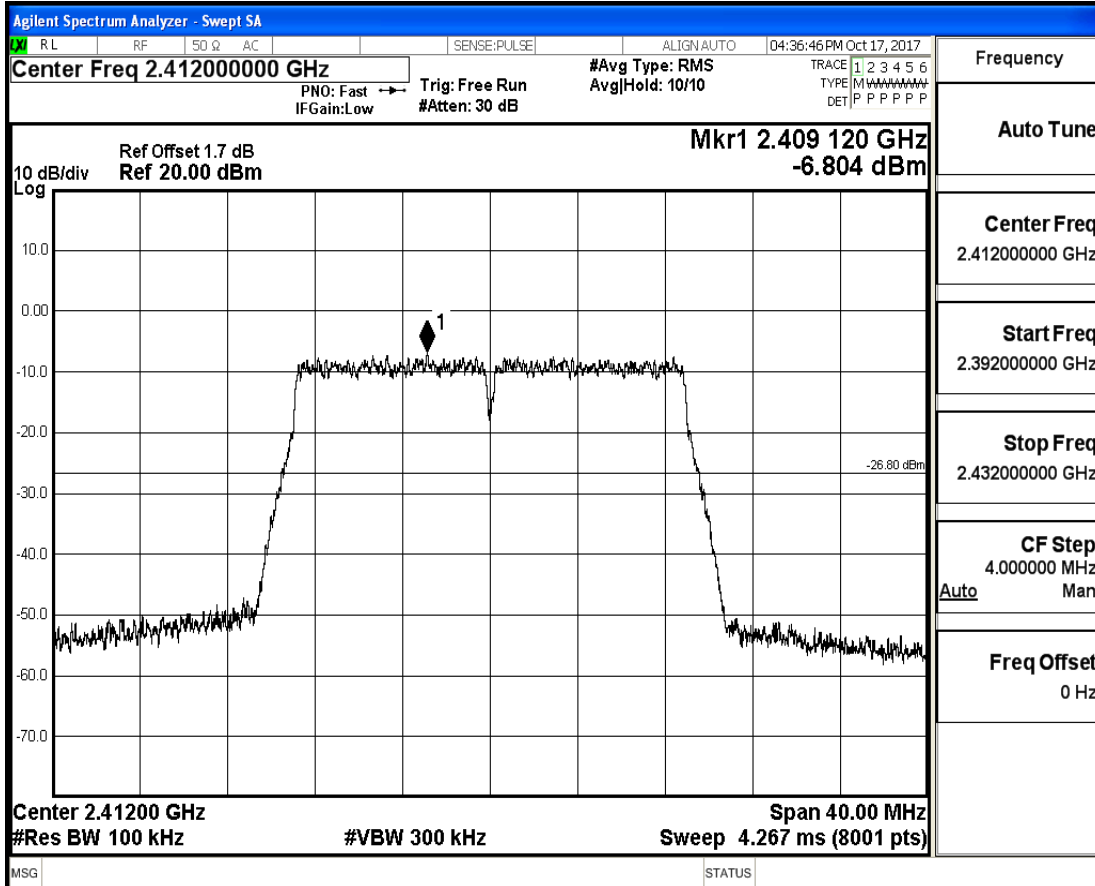
#VBW 300 kHz

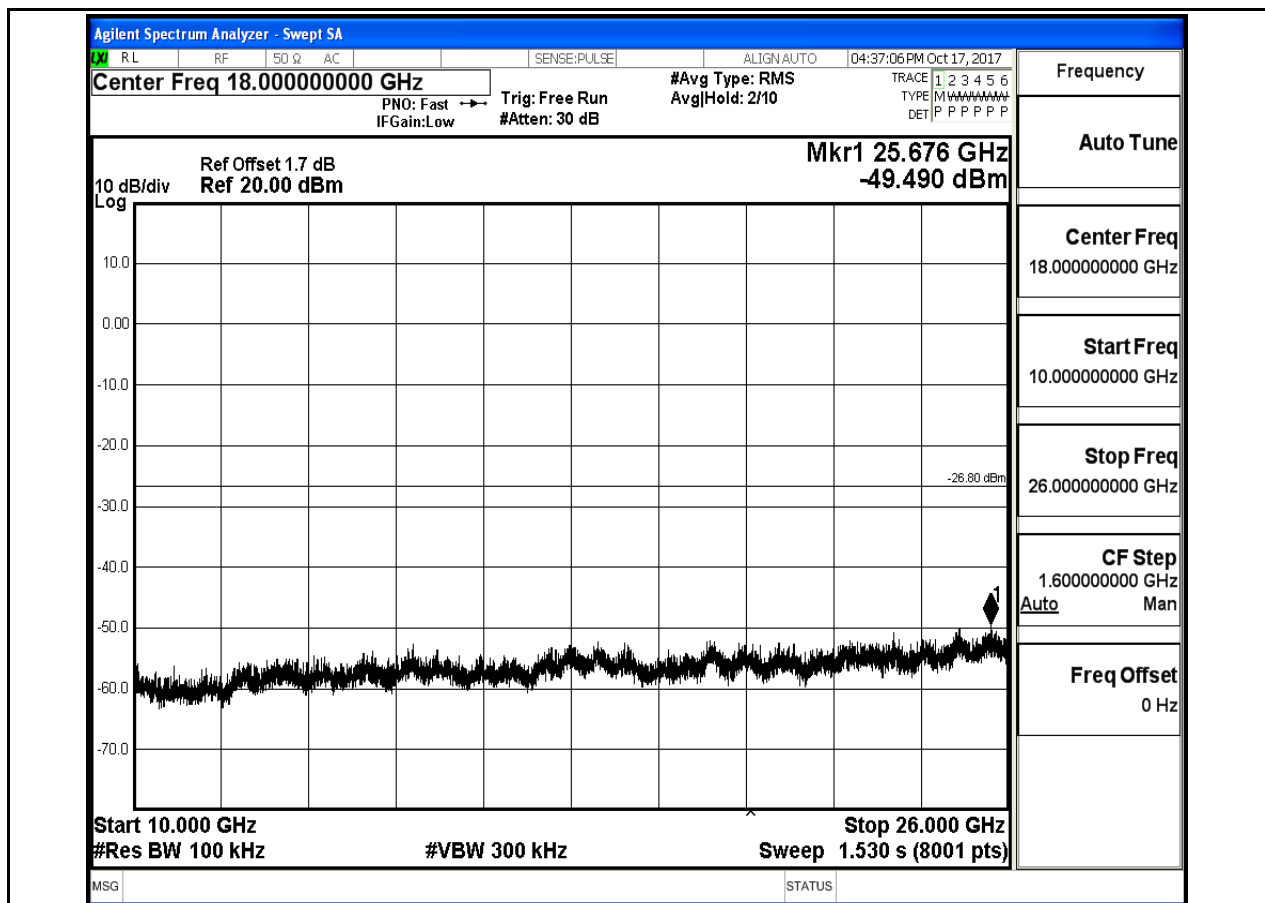
Sweep 1.530 s (8001 pts)

MSG

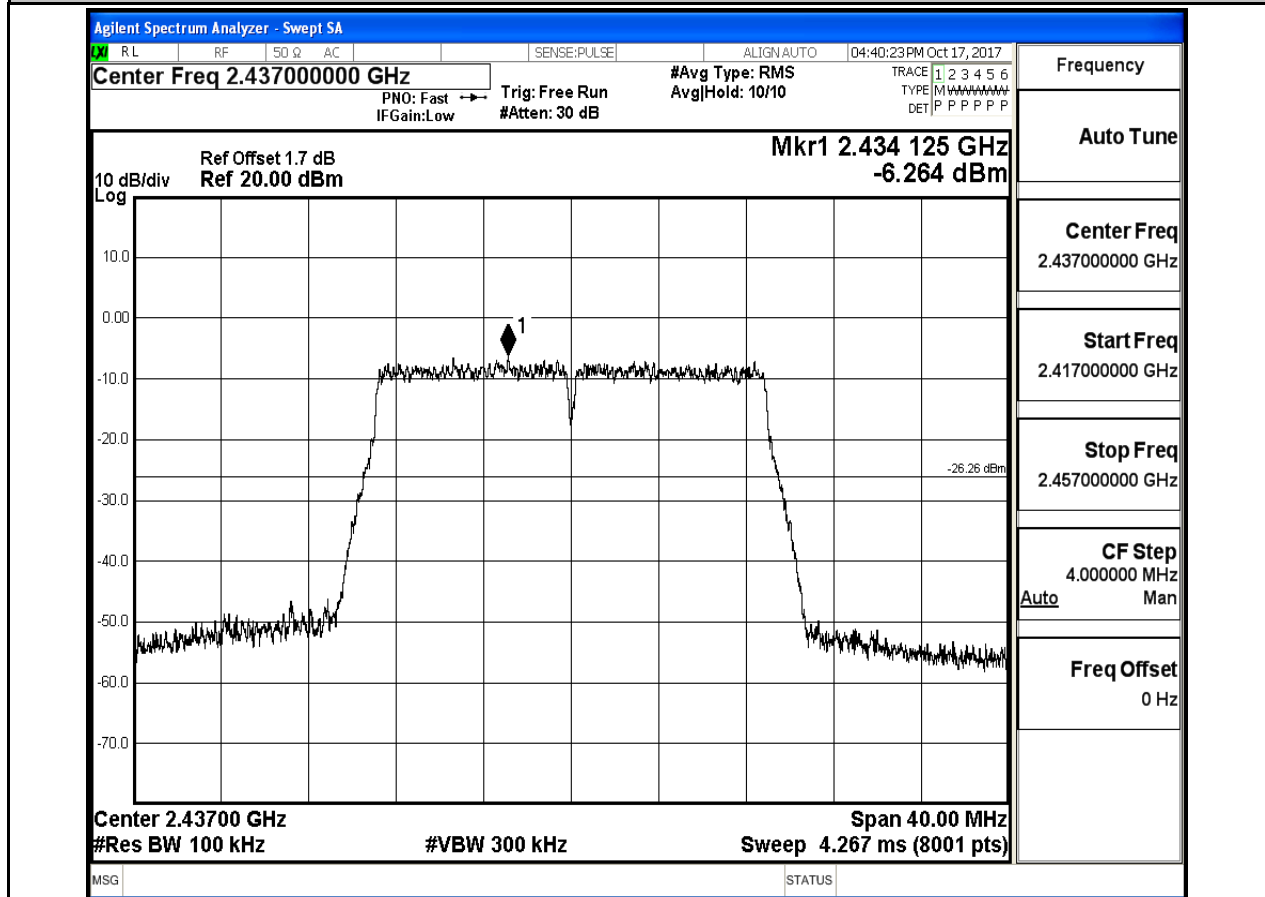
STATUS

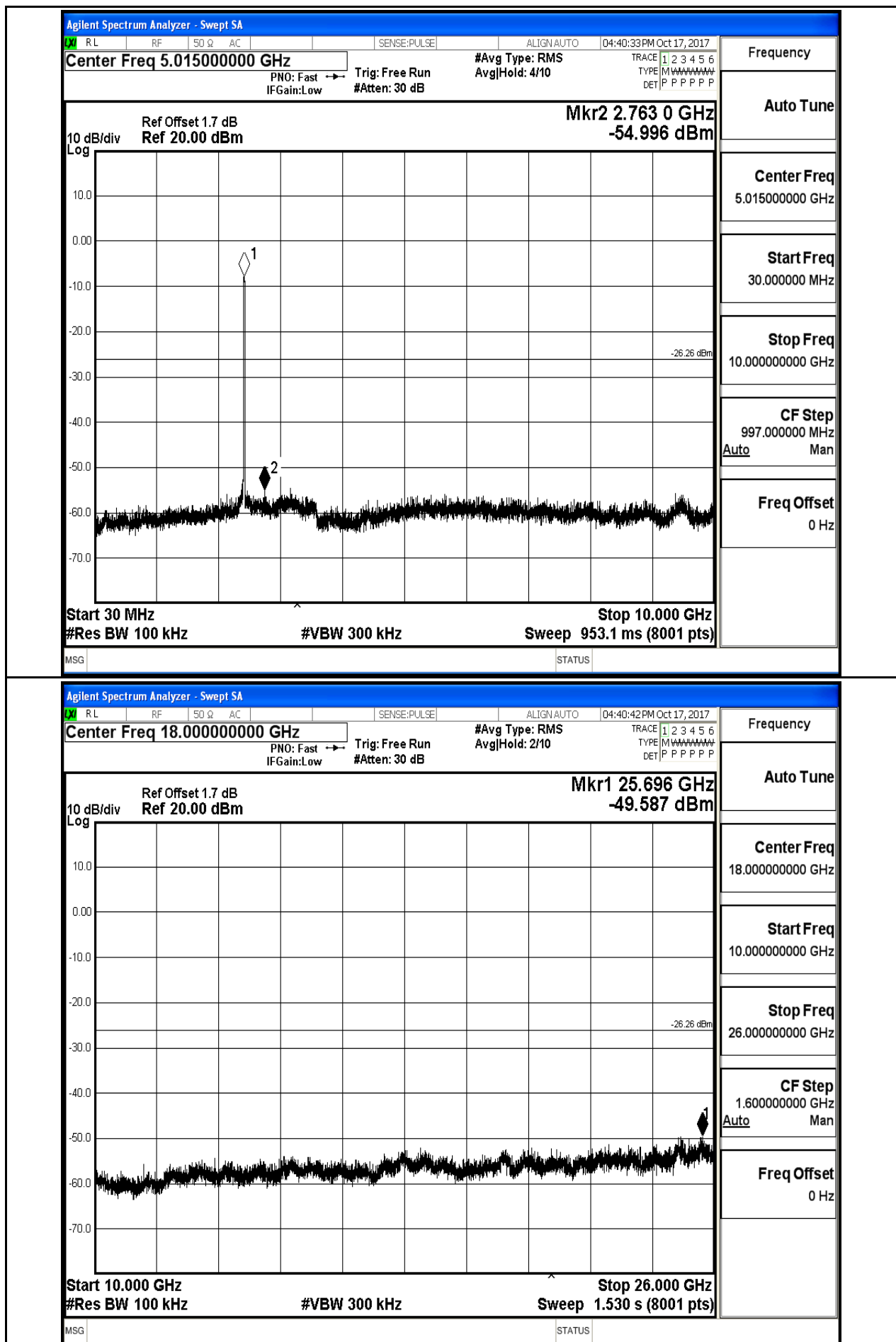
## RF Conducted Spurious Emissions\_11N20\_2412\_Ant1





RF Conducted Spurious Emissions\_11N20\_2437\_Ant1





Frequency

Auto Tune

Center Freq  
18.000000000 GHz

Start Freq  
10.000000000 GHz

Stop Freq  
26.000000000 GHz

CF Step  
1.600000000 GHz  
Auto Man

Freq Offset  
0 Hz

Ref Offset 1.7 dB

Ref 20.00 dBm

Mkr1 25.696 GHz

-49.587 dBm

10 dB/div

Log

Start 10.000 GHz

Stop 26.000 GHz

#Res BW 100 kHz

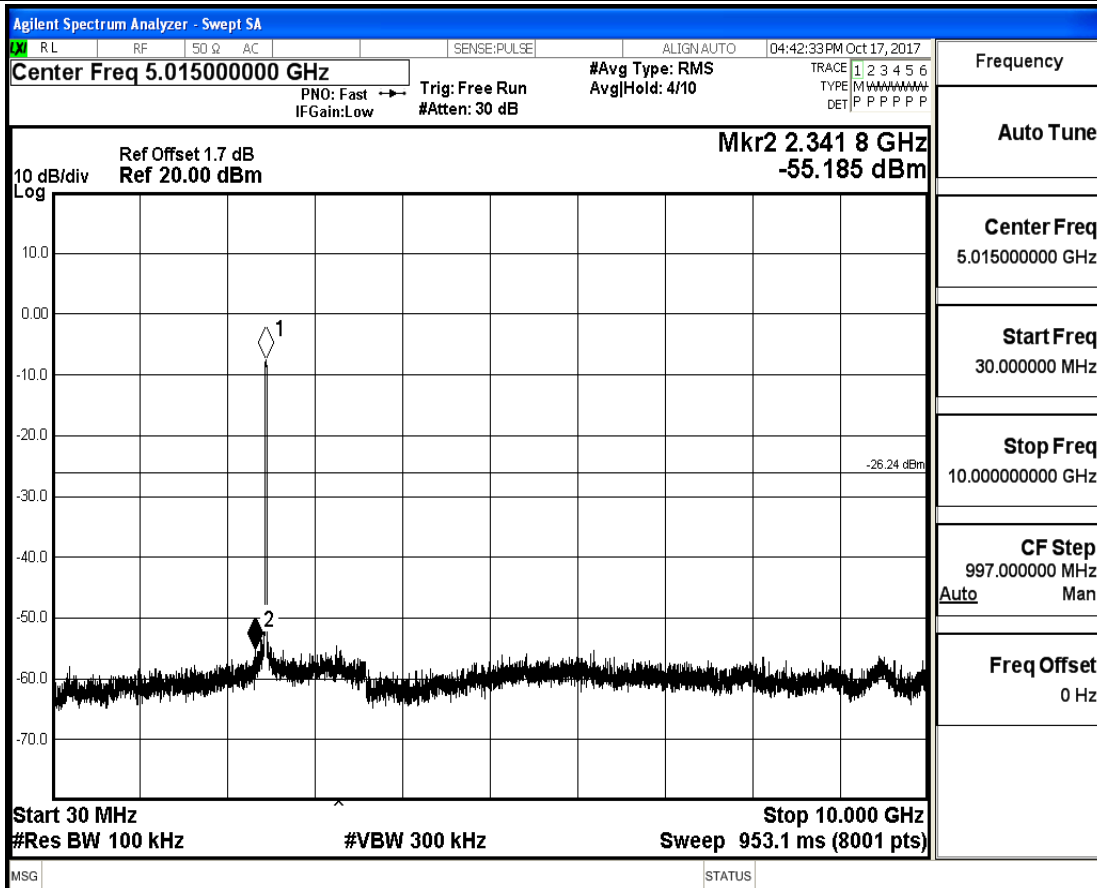
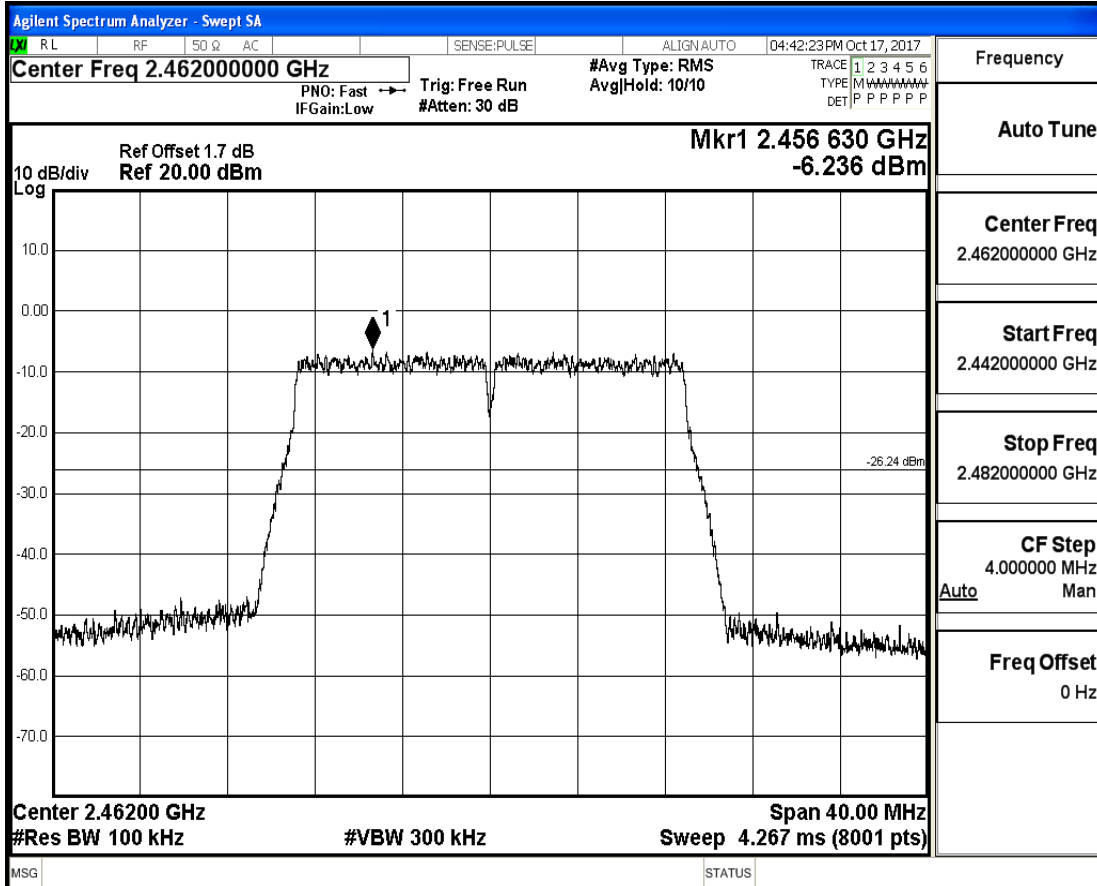
#VBW 300 kHz

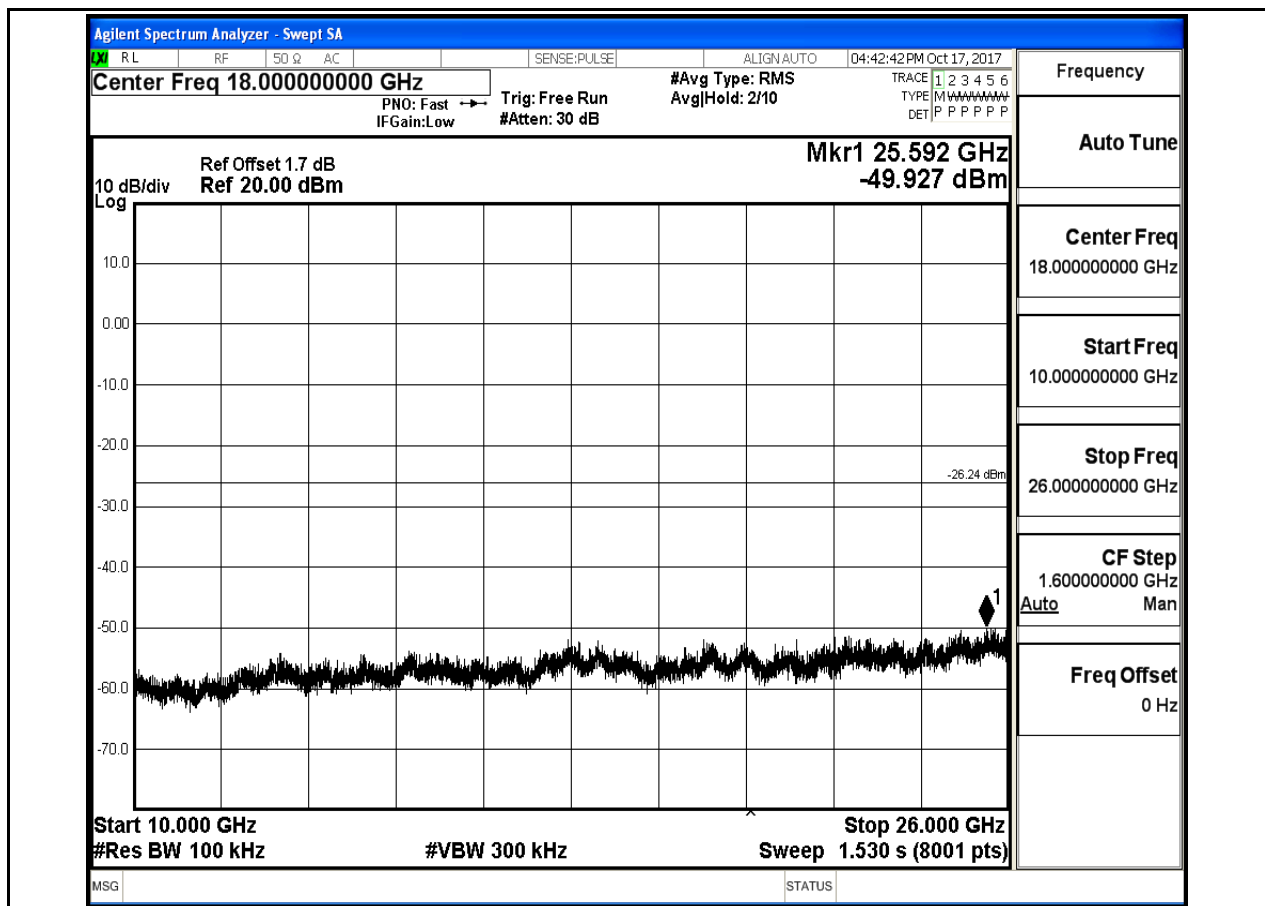
Sweep 1.530 s (8001 pts)

MSG

STATUS

## RF Conducted Spurious Emissions\_11N20\_2462\_Ant1



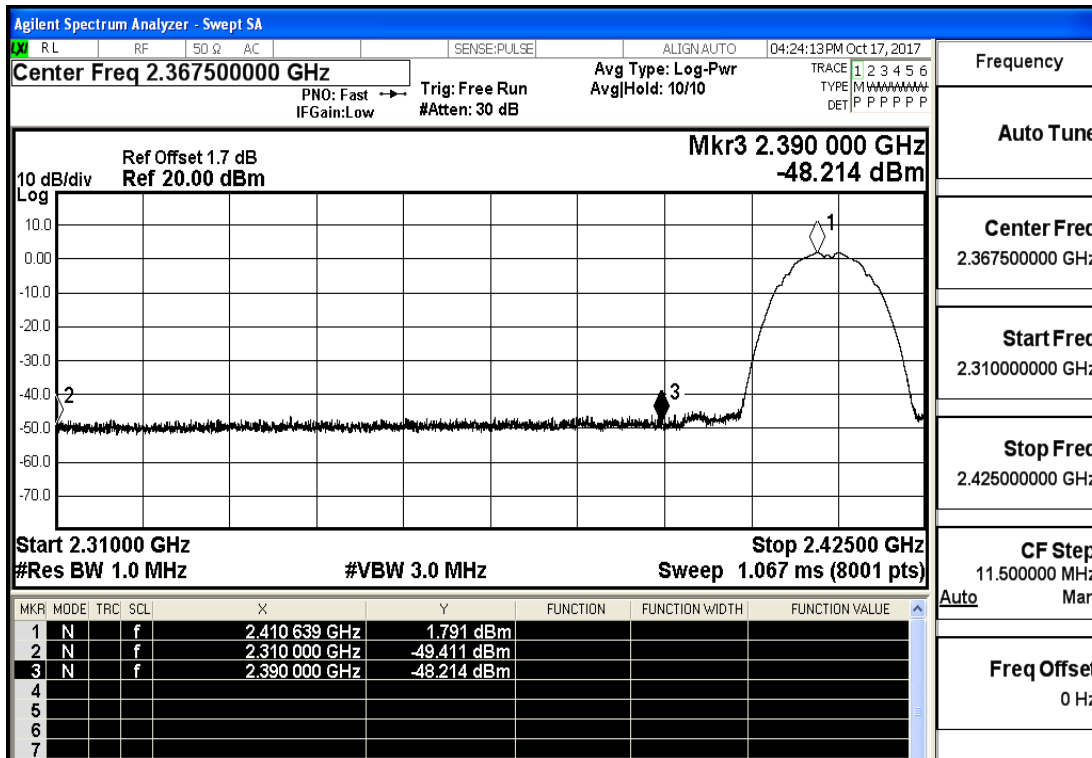




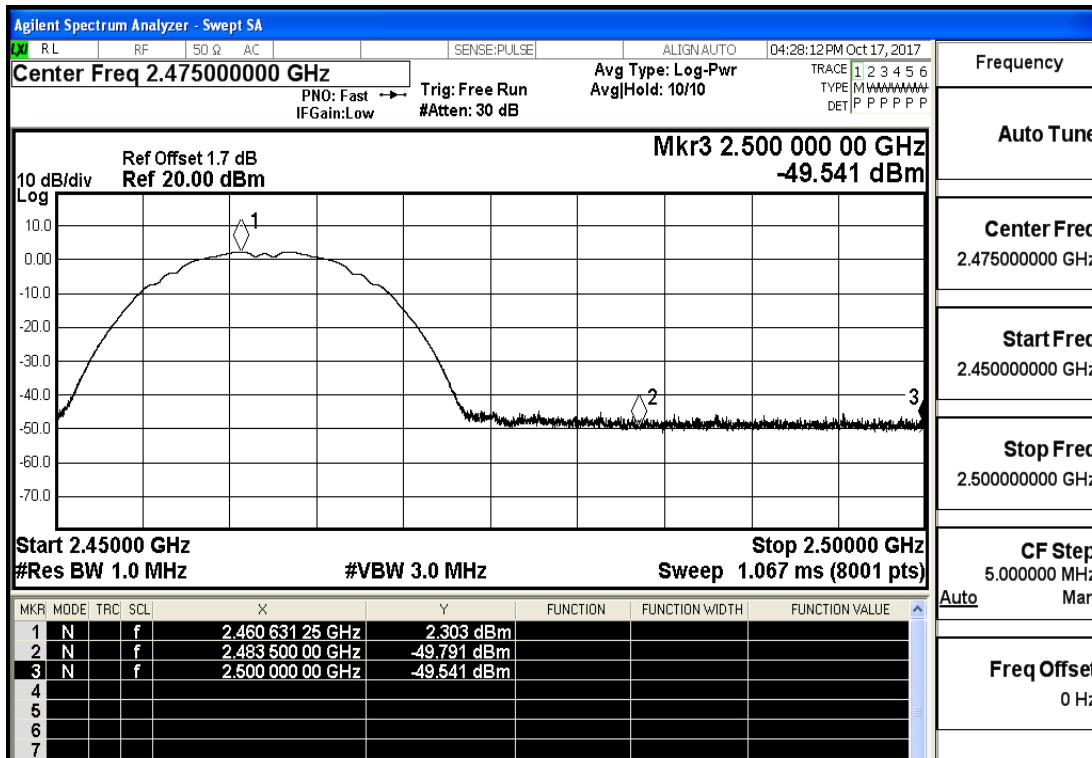
## 7.Restrict-band band-edge measurements

Test Mode	Test Channel	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	2310.0	-49.41	2.0	0	47.85	PEAK	74	PASS
11B	2412	2390.0	-48.21	2.0	0	49.05	PEAK	74	PASS
11B	2462	2483.5	-49.79	2.0	0	47.47	PEAK	74	PASS
11B	2462	2500.0	-49.54	2.0	0	47.72	PEAK	74	PASS
11G	2412	2310.0	-49.42	2.0	0	47.84	PEAK	74	PASS
11G	2412	2390.0	-44.24	2.0	0	53.02	PEAK	74	PASS
11G	2462	2483.5	-44.16	2.0	0	53.10	PEAK	74	PASS
11G	2462	2500.0	-45.79	2.0	0	51.47	PEAK	74	PASS
11N20	2412	2310.0	-49.30	2.0	0	47.96	PEAK	74	PASS
11N20	2412	2390.0	-45.46	2.0	0	51.80	PEAK	74	PASS
11N20	2462	2483.5	-43.91	2.0	0	53.35	PEAK	74	PASS
11N20	2462	2500.0	-46.59	2.0	0	50.67	PEAK	74	PASS

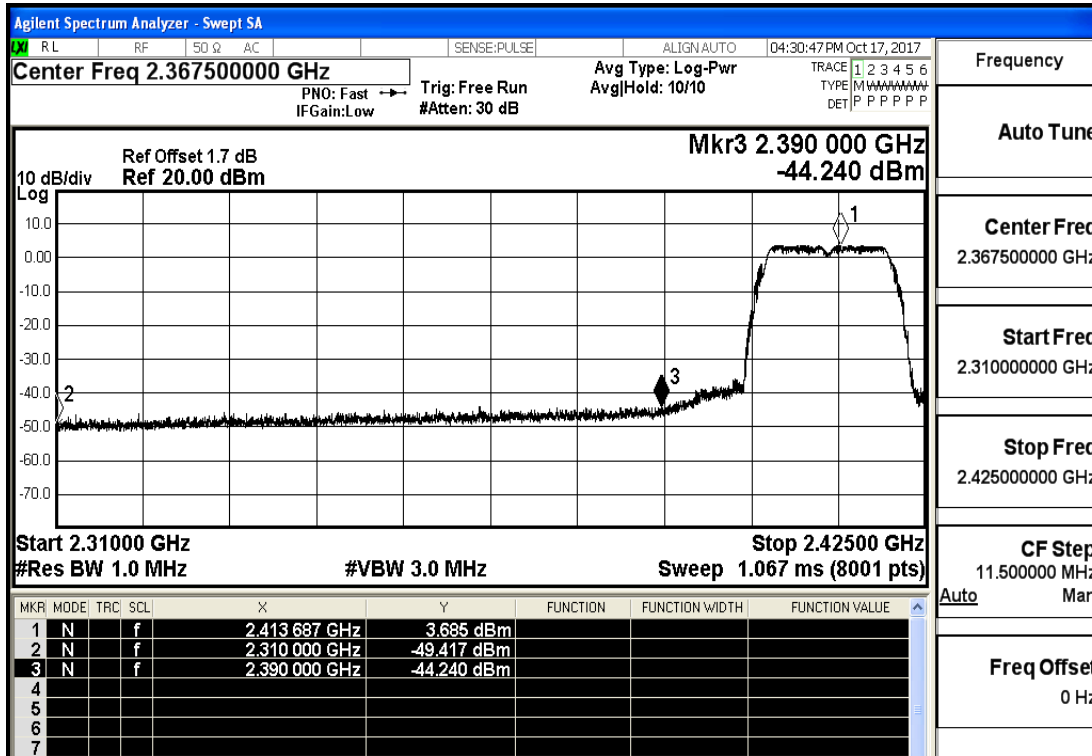
## Restrict-band band-edge measurements\_11B\_2412\_Ant1\_PEAK



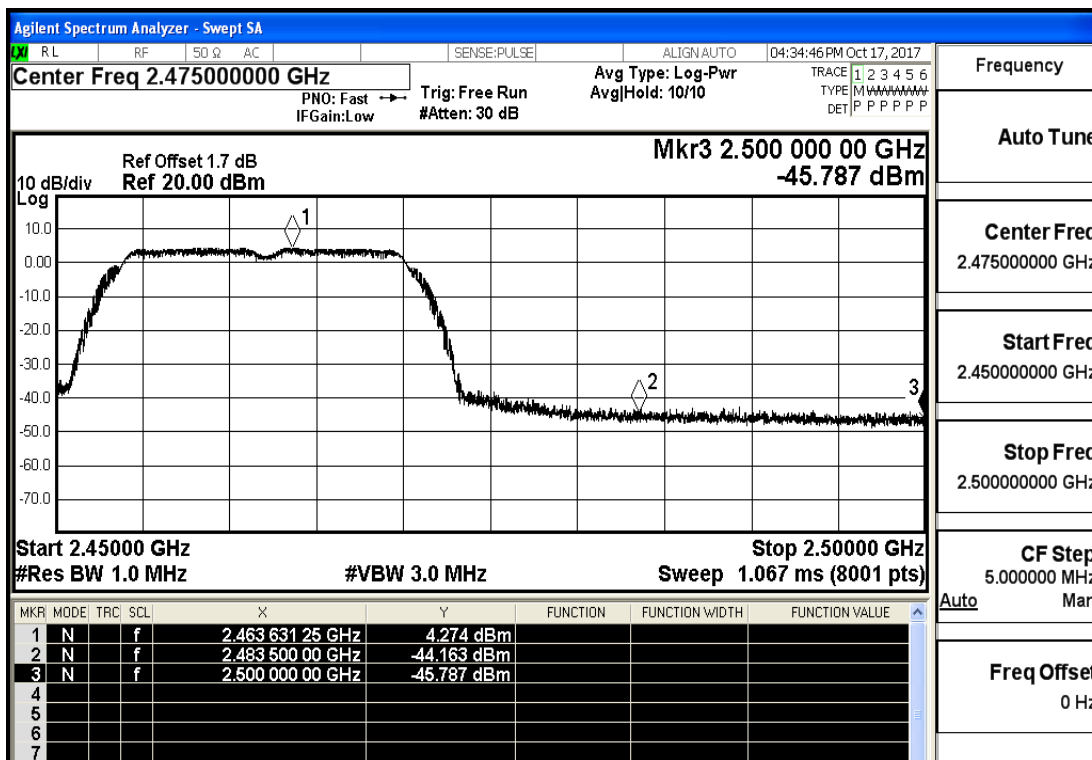
## Restrict-band band-edge measurements\_11B\_2462\_Ant1\_PEAK



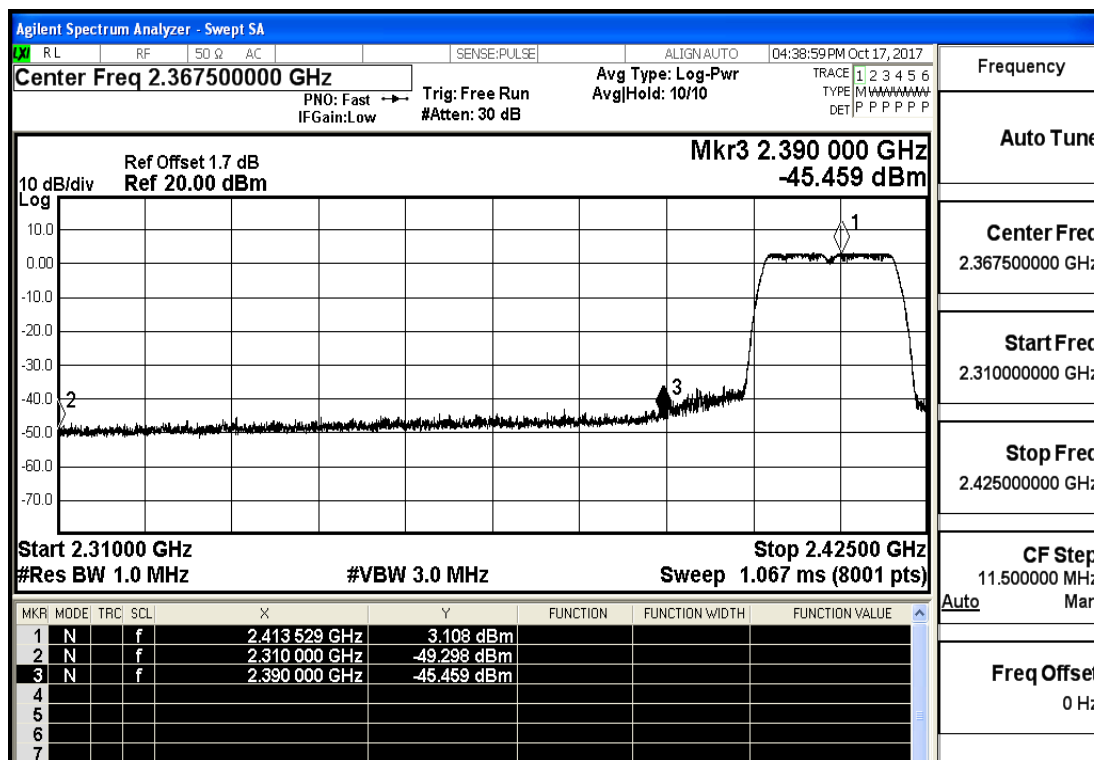
## Restrict-band band-edge measurements\_11G\_2412\_Ant1\_PEAK



## Restrict-band band-edge measurements\_11G\_2462\_Ant1\_PEAK



## Restrict-band band-edge measurements\_11N20\_2412\_Ant1\_PEAK



## Restrict-band band-edge measurements\_11N20\_2462\_Ant1\_PEAK

