



# Appendix for Test report



## Appendix A: DTS (6 dB) Bandwidth

In this document, the "DTS6dBBW" refers to the measured "DTS (6 dB) Bandwidth" value. In this Appendix, the "fc(DTS6dBBW)" refers to the centre of the measured "DTS6dBBW". The introduction of the "fc(DTS6dBBW)" is due to that other measurements use it as the spectrum analyzer setting.

For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at each chain, and used as respective results for each chain.

### Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	DTS6dBBW[MHz]	Verdict
TM1_Ch0	L	2402	0.66	pass
TM1_Ch19	M	2440	0.69	pass
TM1_Ch39	H	2480	0.72	pass

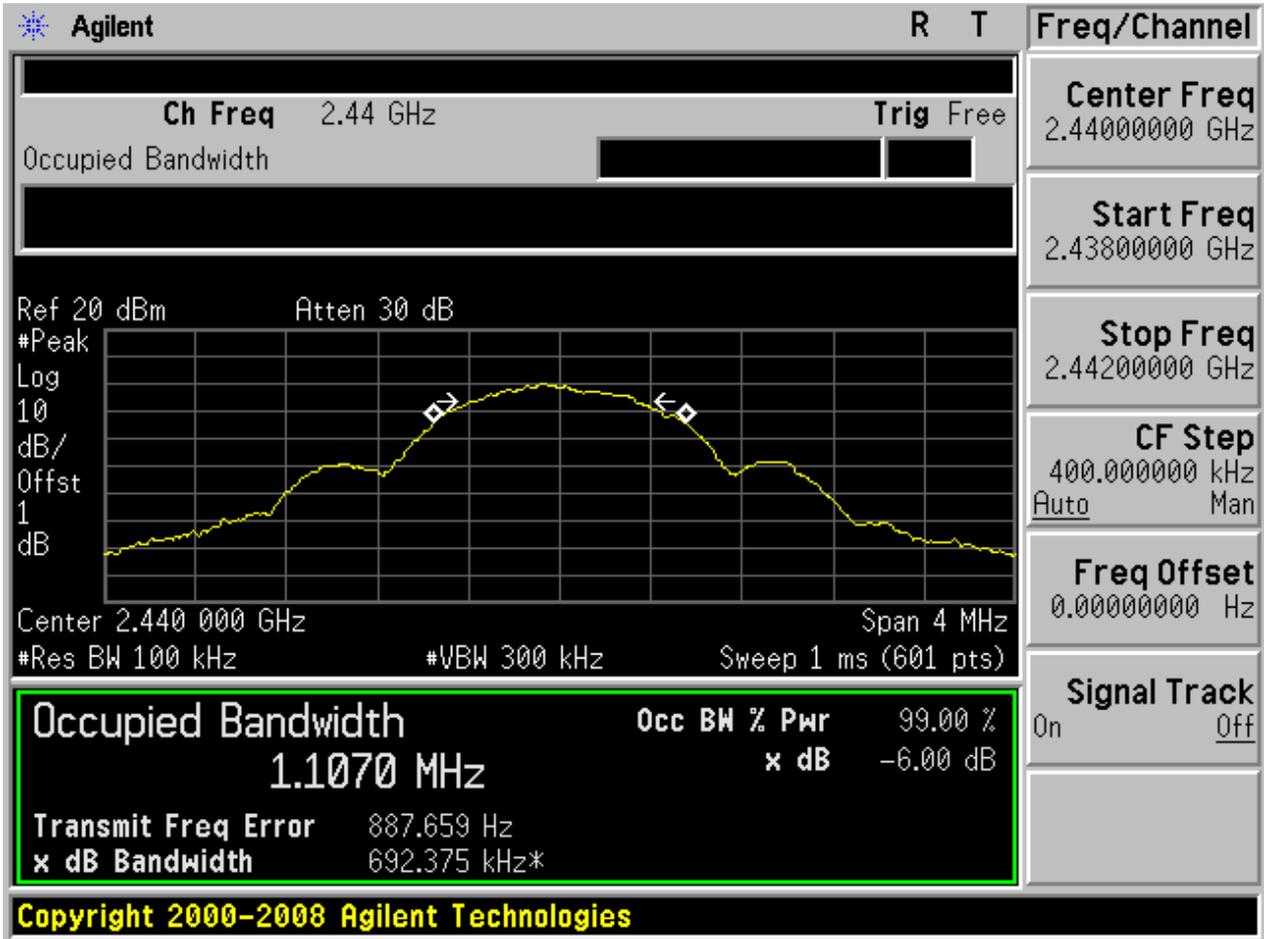
Part II - Test Plots

2.1 TM1\_Ch0\_L



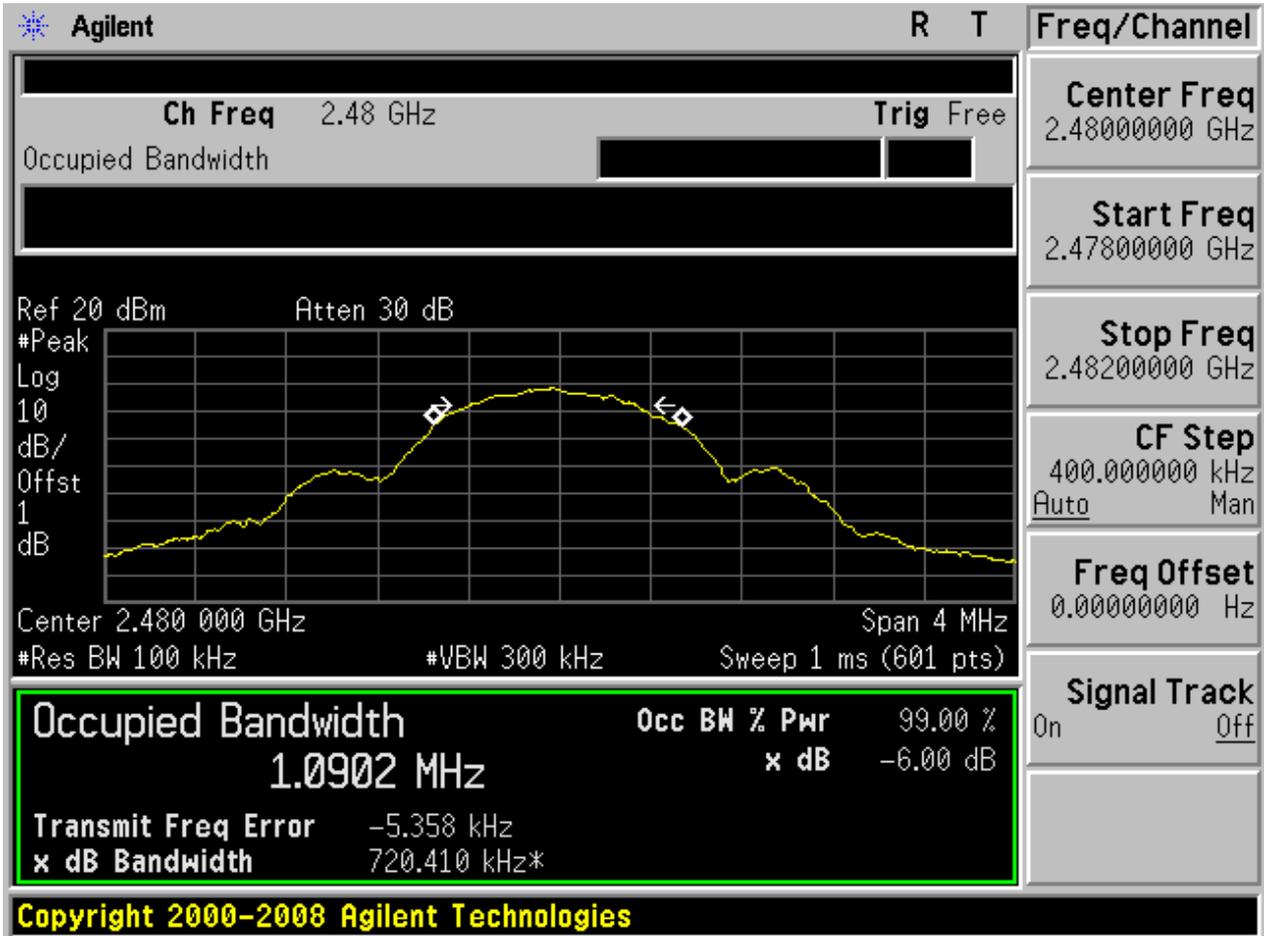


2.2 TM1\_Ch19\_M





2.3 TM1\_Ch39\_H





## Appendix B: Occupied Bandwidth

For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at each chain, and used as respective results for each chain.

### Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Occupied Bandwidth [MHz]	Verdict
TM1_Ch0	L	2402	1.05	pass
TM1_Ch19	M	2440	1.06	pass
TM1_Ch39	H	2480	1.07	pass

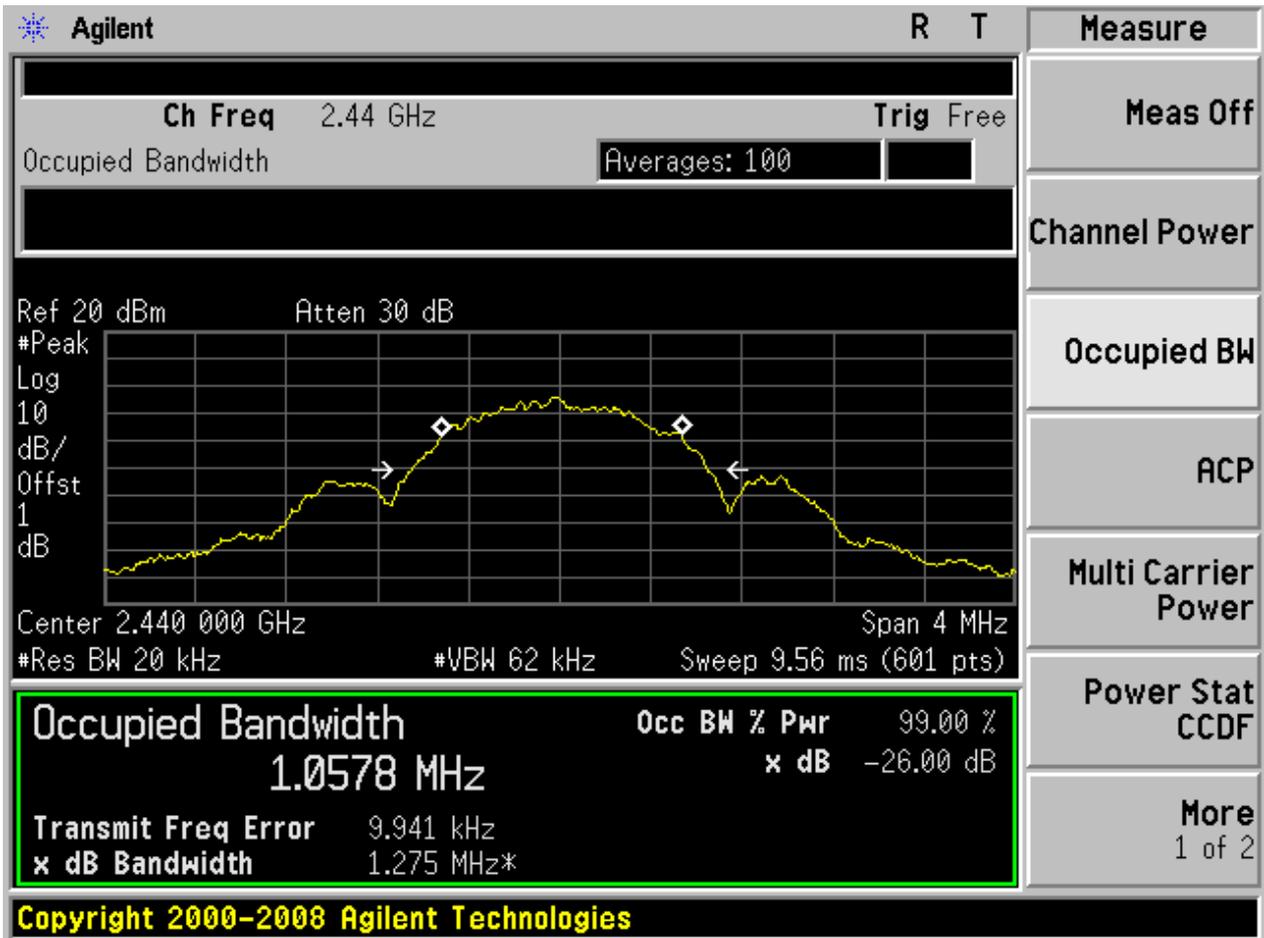
Part II - Test Plots

2.1 TM1\_Ch0\_L





2.2 TM1\_Ch19\_M





2.3 TM1\_Ch39\_H





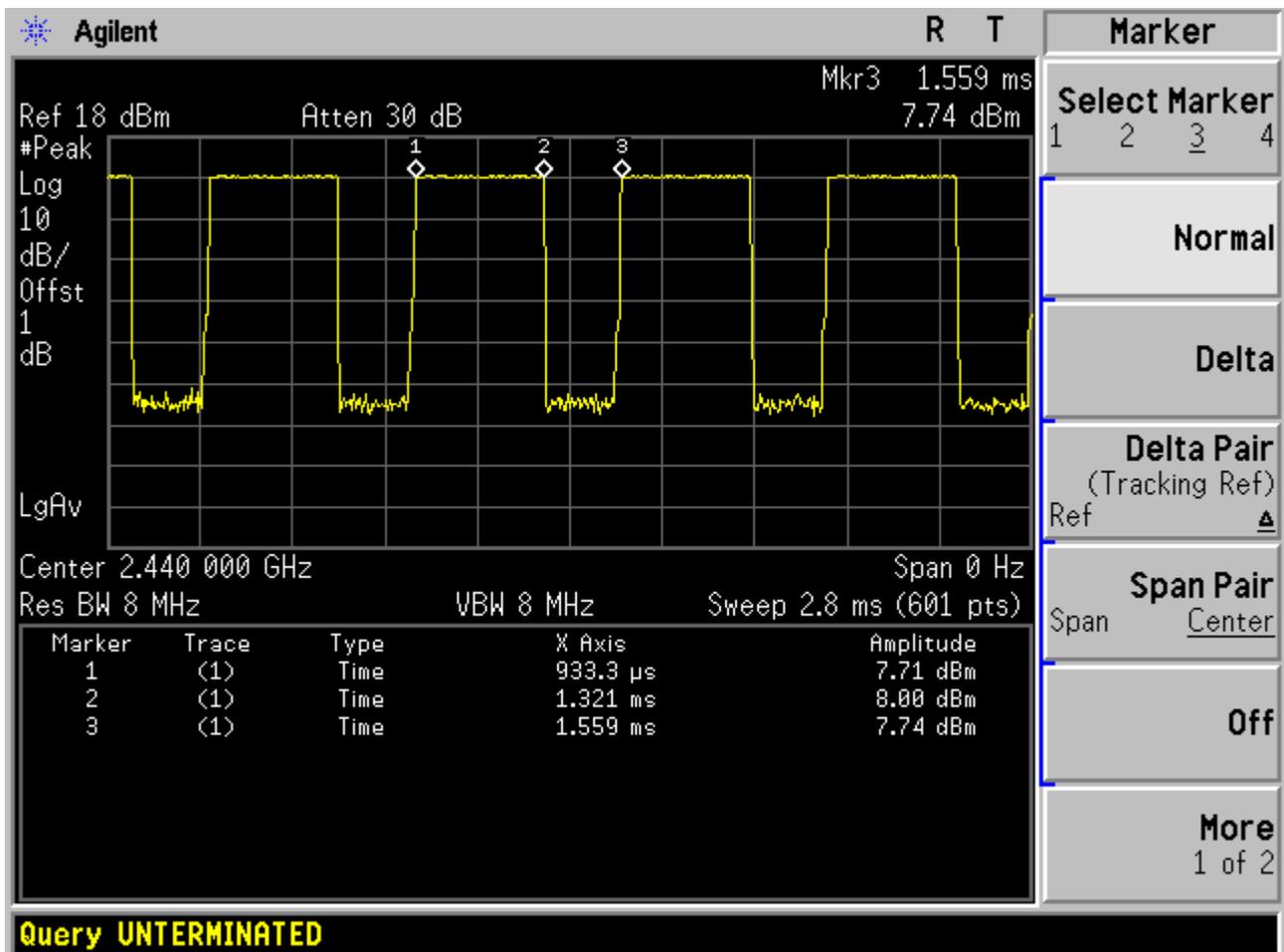
# Appendix C: Duty Cycle

## Part I - Test Results

Test Mode	TX Freq. [MHz]	Duty cycle [%]
TM1	CH0,CH19,CH39	62

## Part II - Test Plots

### 2.1 TM1





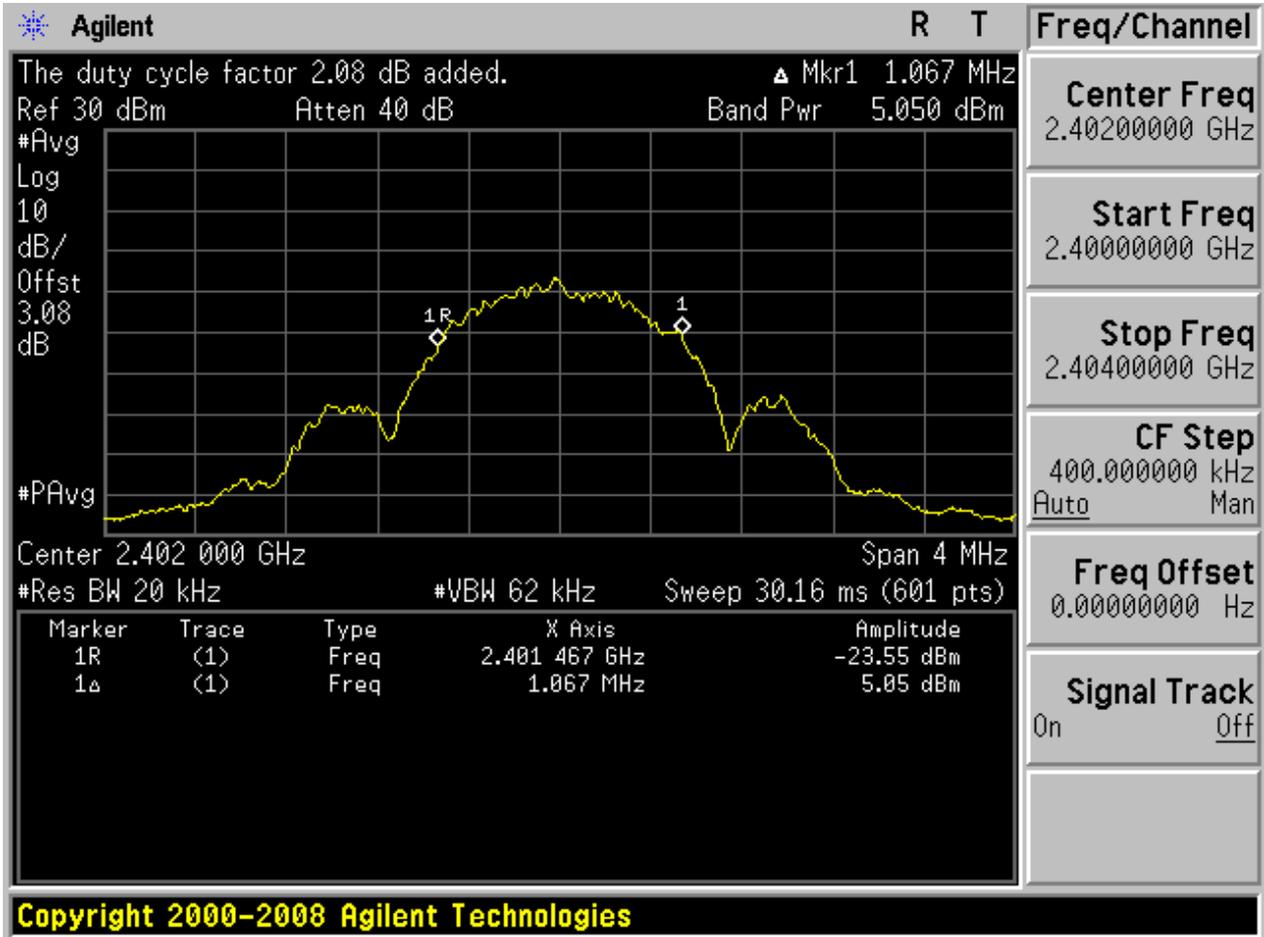
## Appendix D: Maximum Conducted Average Output Power

### Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Duty Cycle [%]	Power[dBm]	Verdict
TM1_Ch0	L	2402	62	5.05	pass
TM1_Ch19	M	2440	62	7.91	pass
TM1_Ch39	H	2480	62	5.74	pass

Part II - Test Plots

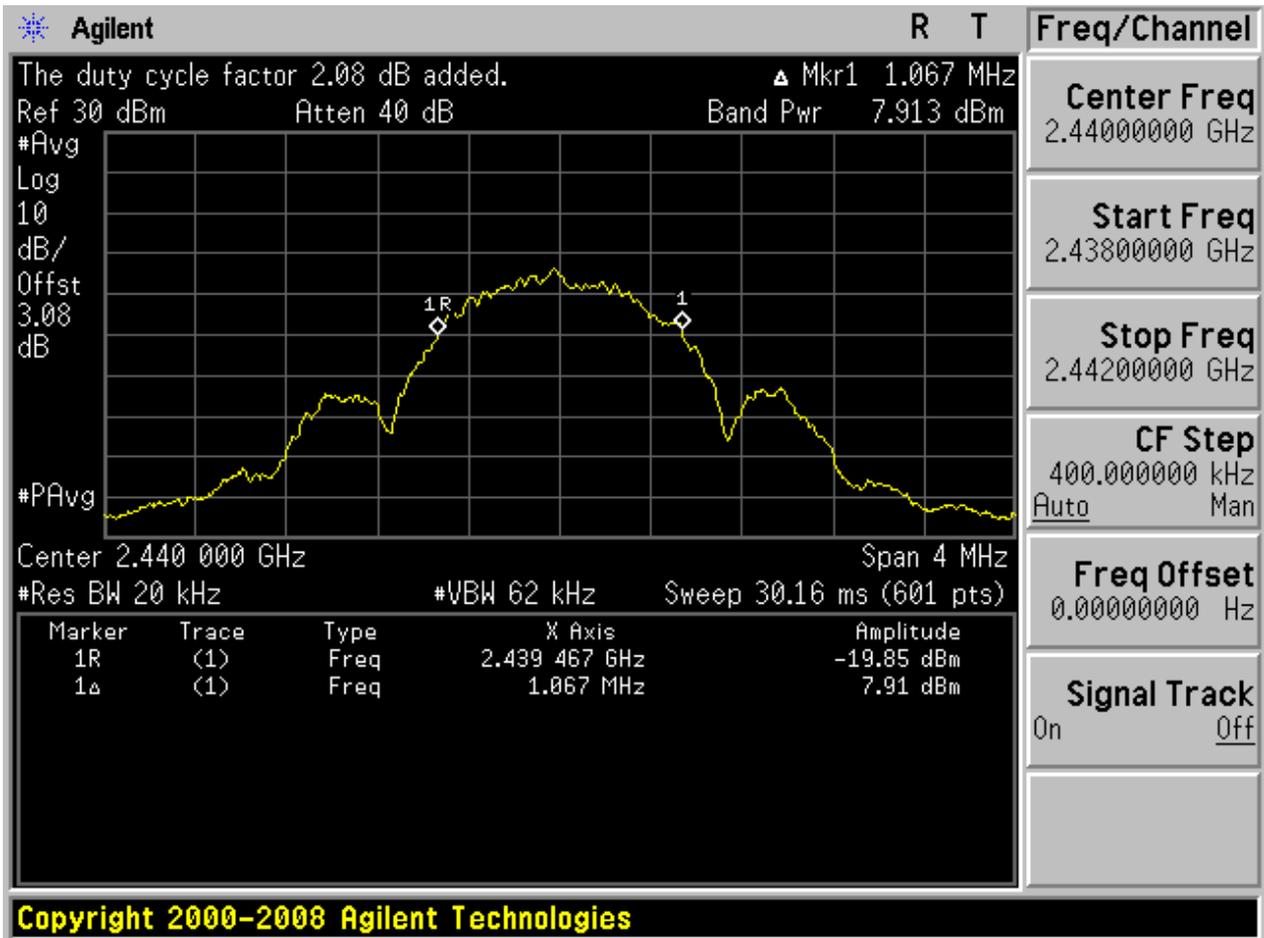
2.1 TM1\_Ch0\_L



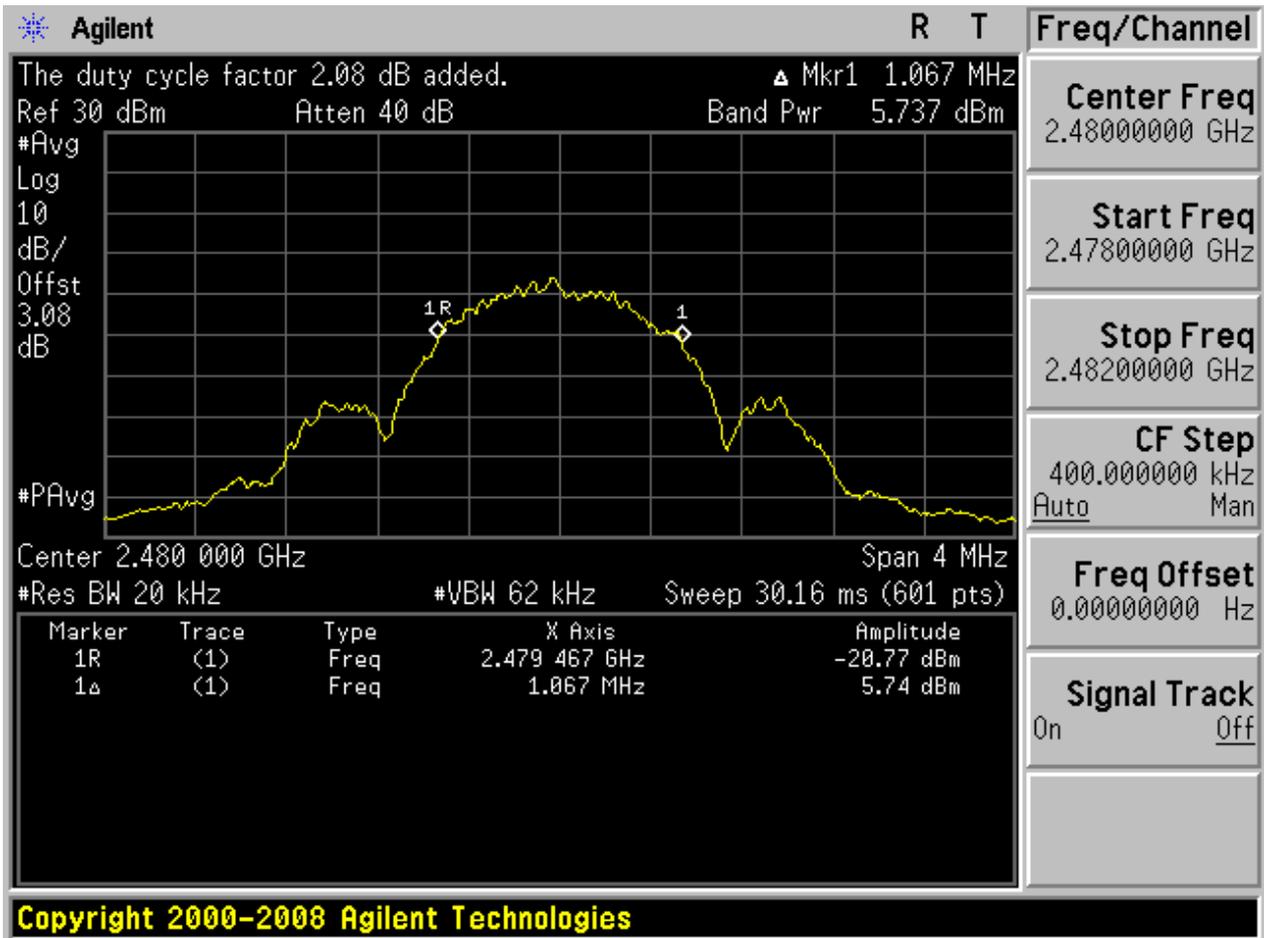
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2.2 TM1\_Ch19\_M



2.3 TM1\_Ch39\_H



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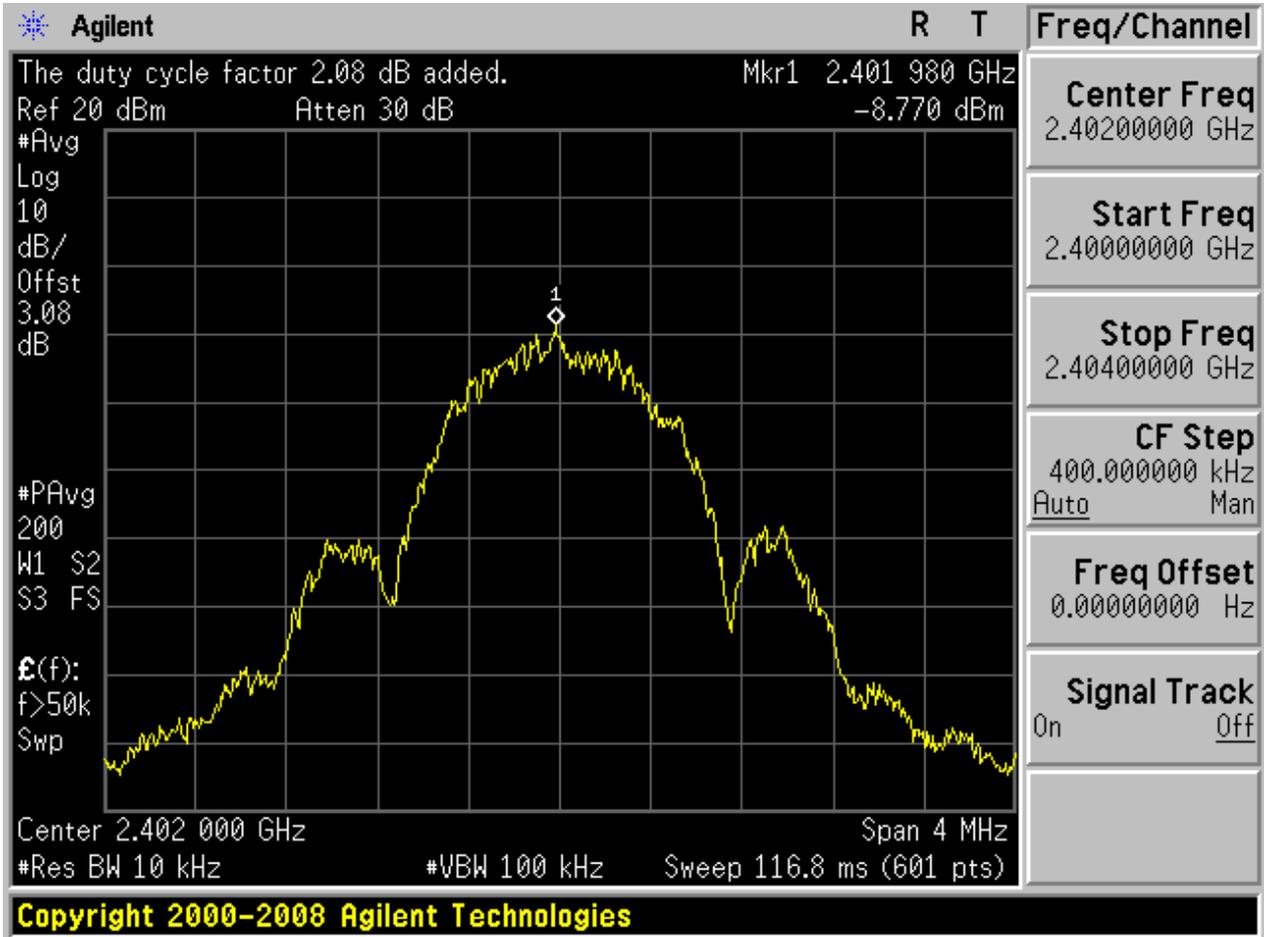
## Appendix E: Maximum Power Spectral Density Level

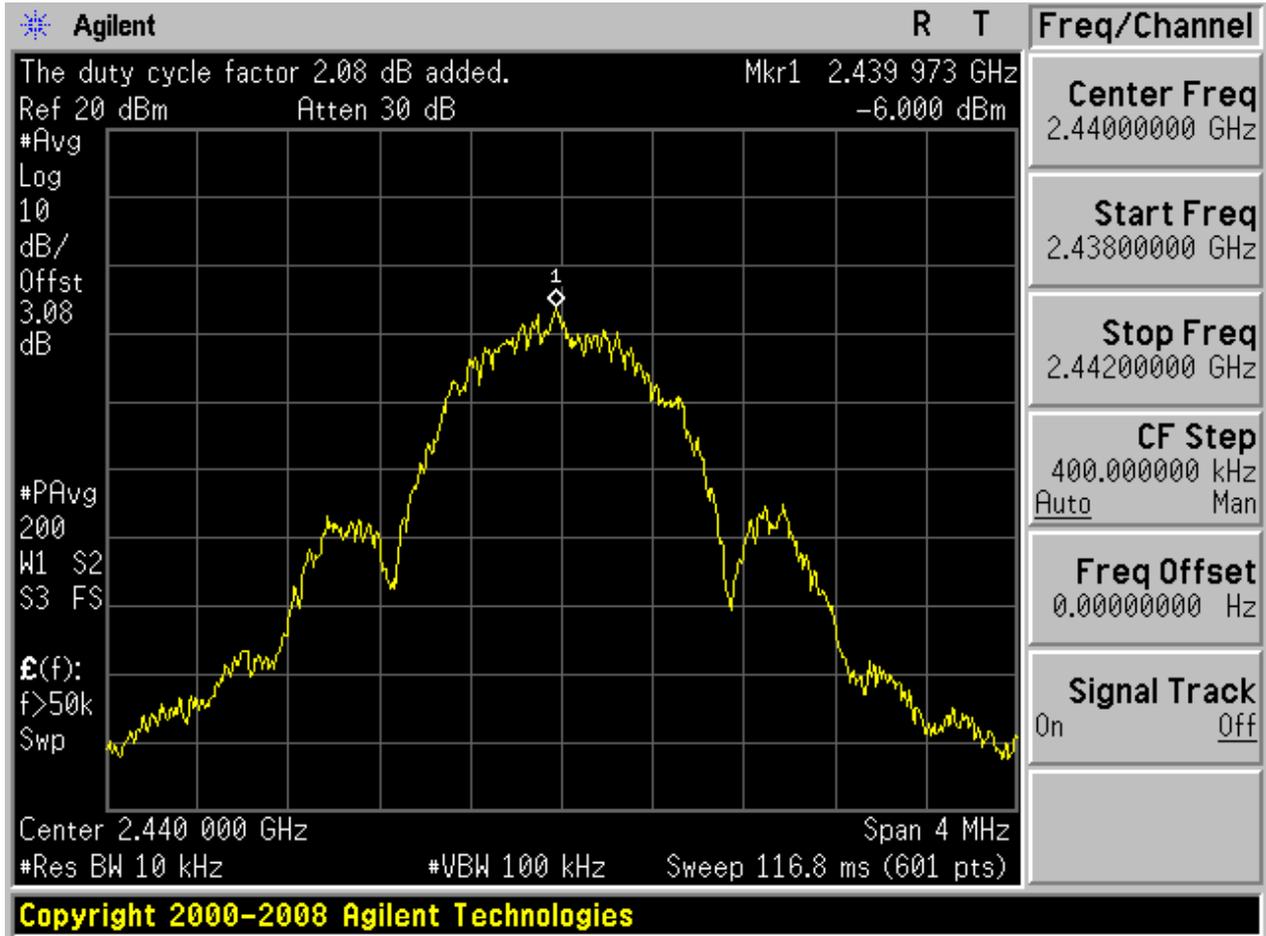
### Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Duty Cycle [%]	PD[MHz]	Verdict
TM1 _Ch0	L	2402	62	-8.77	pass
TM1 _Ch19	M	2440	62	-6.00	pass
TM1 _Ch39	H	2480	62	-8.21	pass

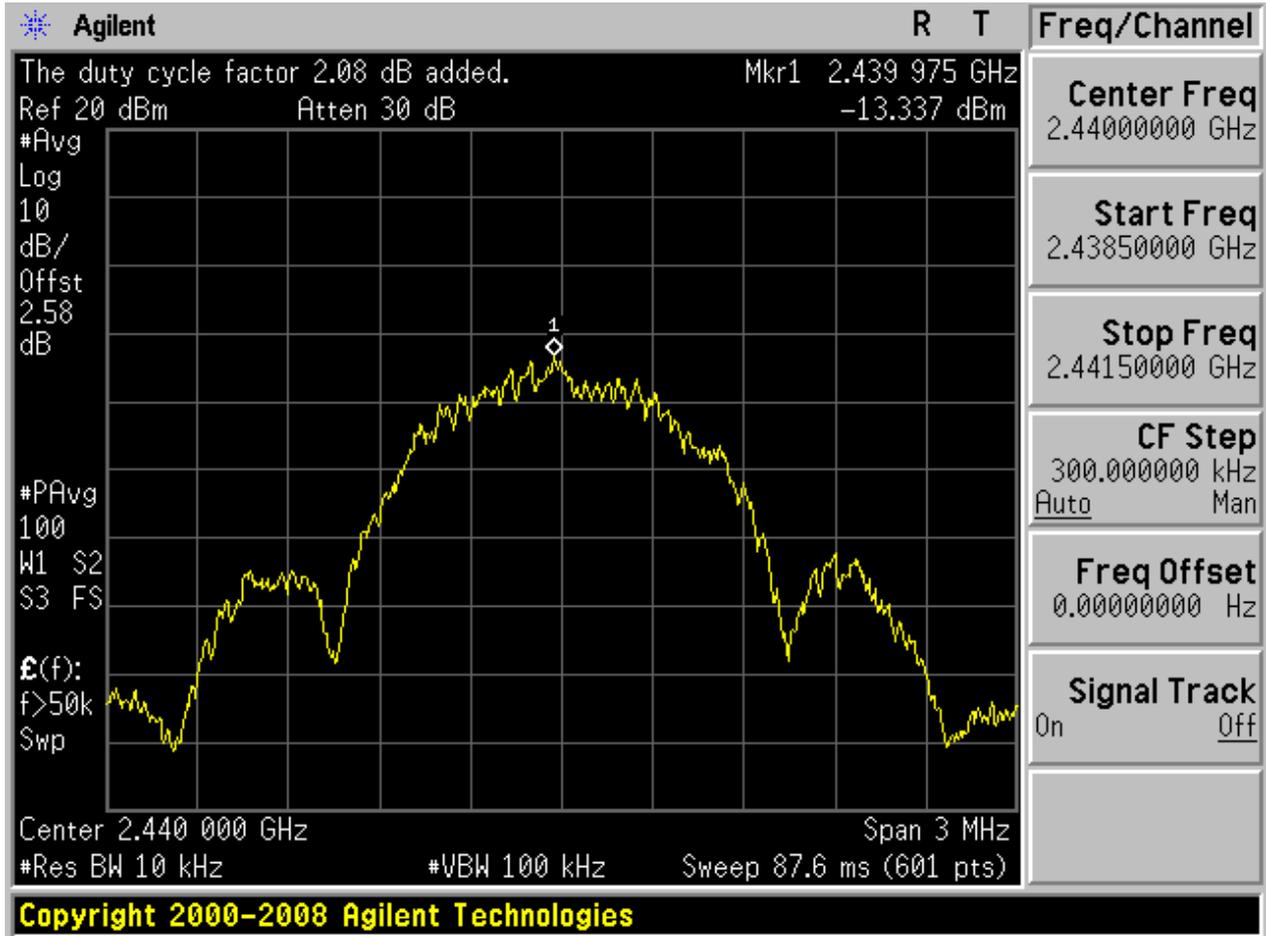
Part II - Test Plots

2.1 TM1\_Ch0\_L



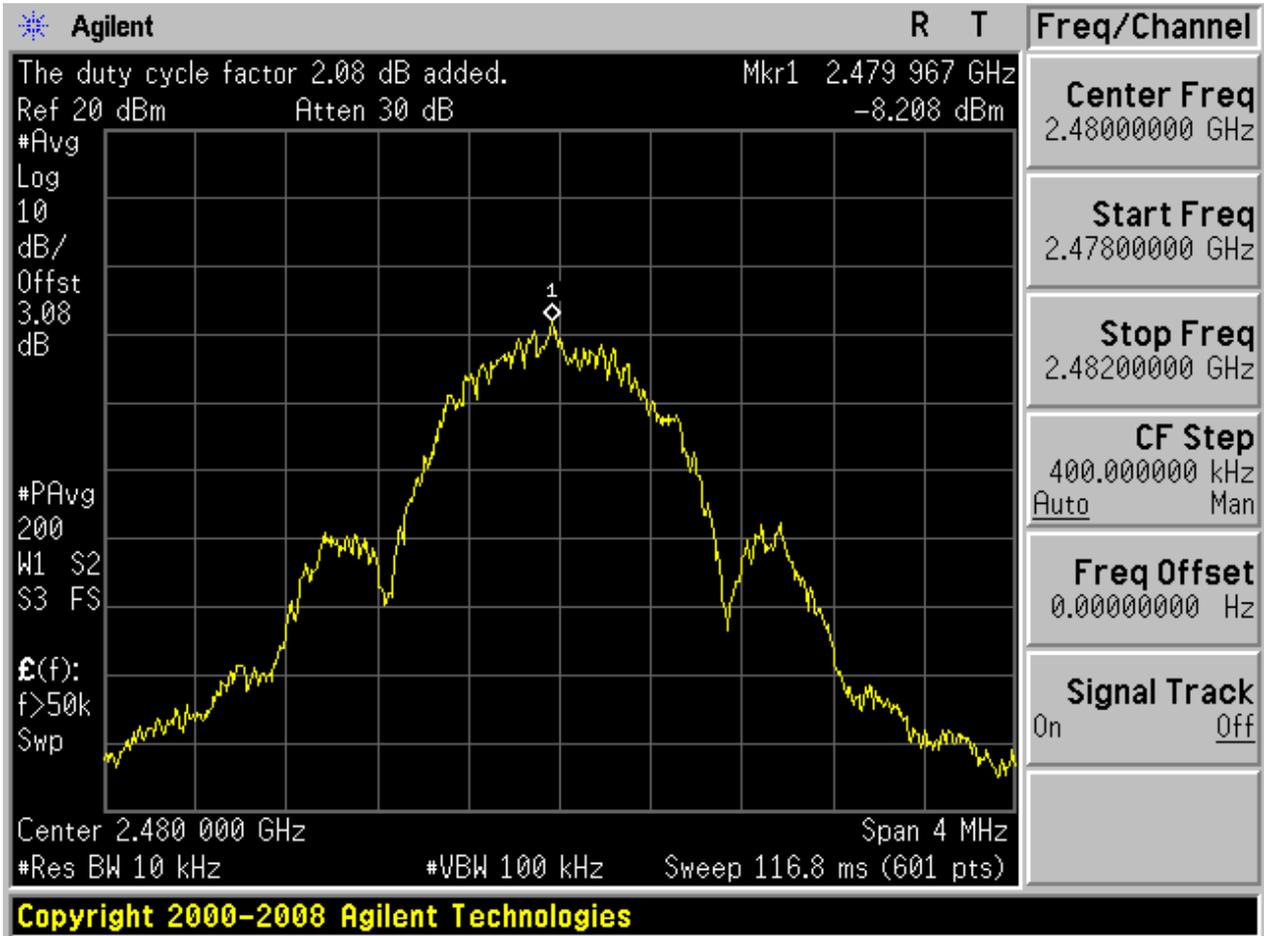


2.2 TM1\_Ch19\_M





2.3 TM1\_Ch39\_H



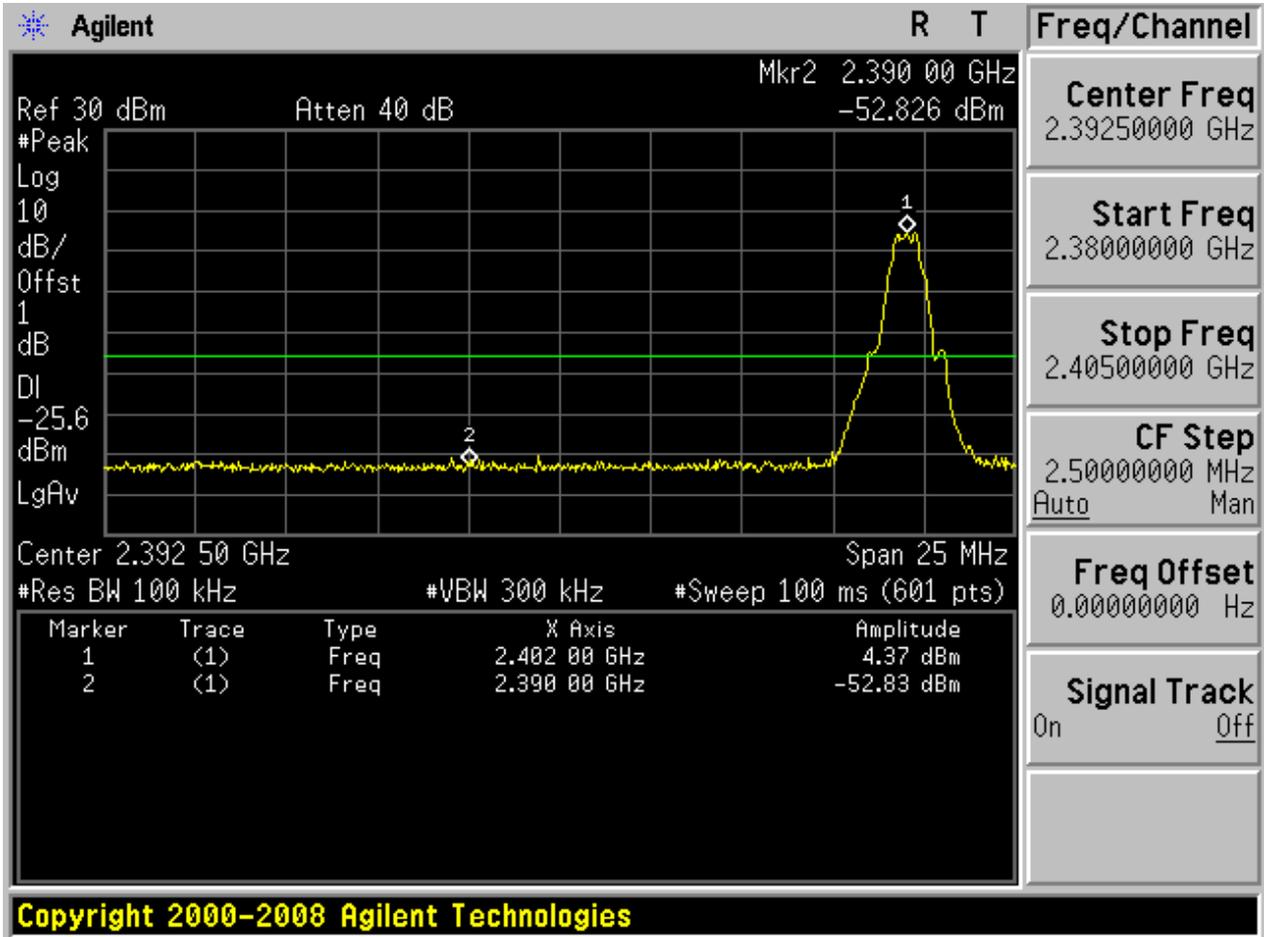
## Appendix F: Band Edges Compliance

### Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Carrier Power[dBm]	Max.Spurious Level[dBm]	Verdict
TM1_Ch 0	L	2402	-1.14	-52.83	pass
TM1_Ch 39	H	2480	-0.55	-51.94	pass

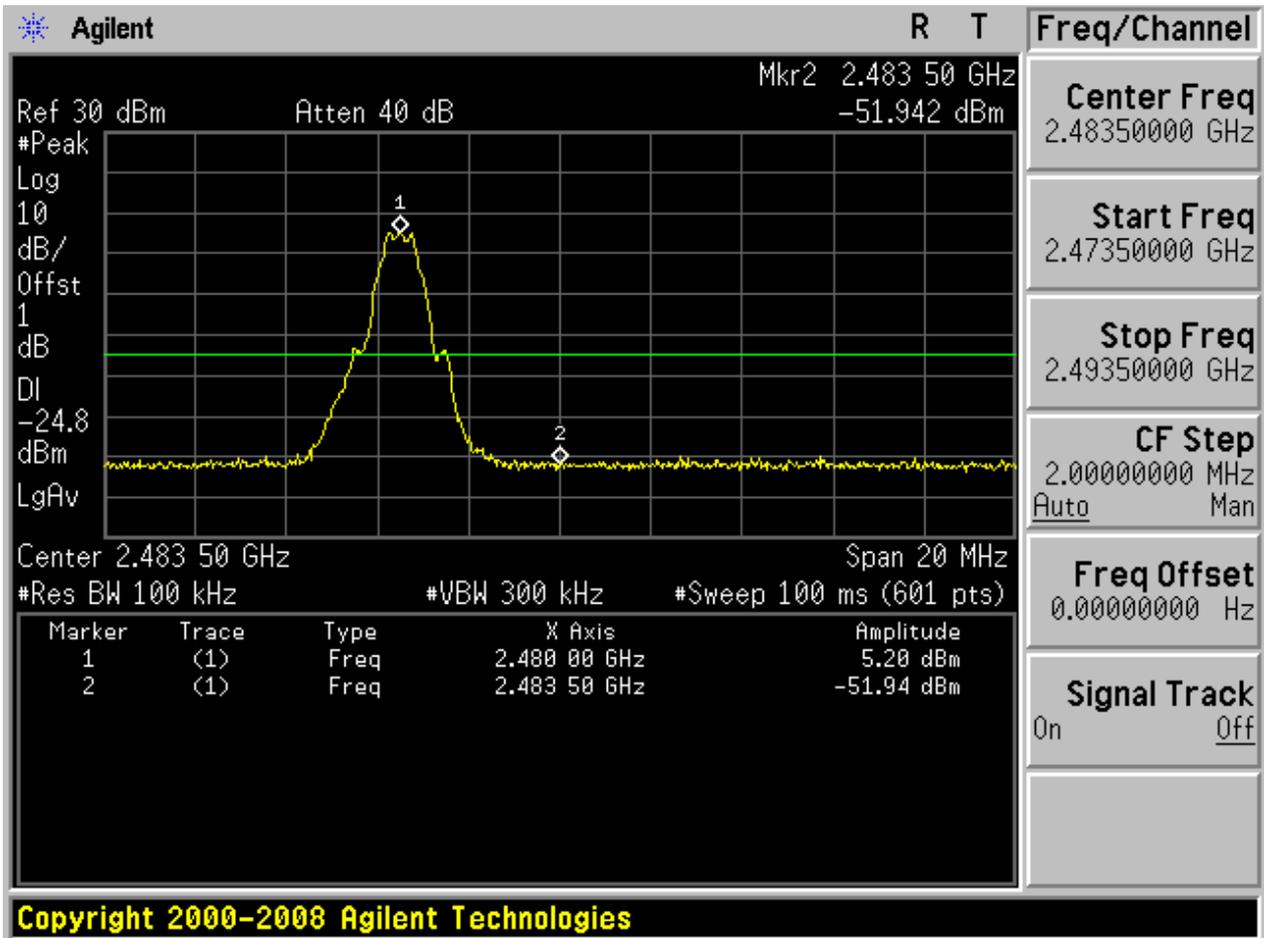
Part II - Test Plots

2.1 TM1\_Ch0\_L





2.2 TM1\_Ch39\_H



## Appendix G: Unwanted Emissions into Non-Restricted Frequency

### Bands

In this Appendix, the "Pref", which is used as the reference level, refers to the peak power level in any 100 kHz bandwidth within the fundamental emission, the "Puw" refers to the maximum emission power in 100 kHz band segments outside of the authorized frequency band.

Considering that the higher ratio of RBW to the span for the frequency ranges below 30 MHz makes the results determination be complicated, a narrower RBW other than 100 kHz is used for these ranges. The measured value should add a RBW correction factor (RBWCF) where  $RBWCF [dB] = 10 \times \lg(100 [kHz]/\text{narrower RBW [kHz]})$ . As to this Appendix, the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at each chain and used as respective results for each chain, due to the relative-limit requirement.

In the result table, the "< Limit" denotes that "The Puw [dBm] is less than Pref[dBm]-20[dBm], see test plots for detailed".

#### Part I - Test Results

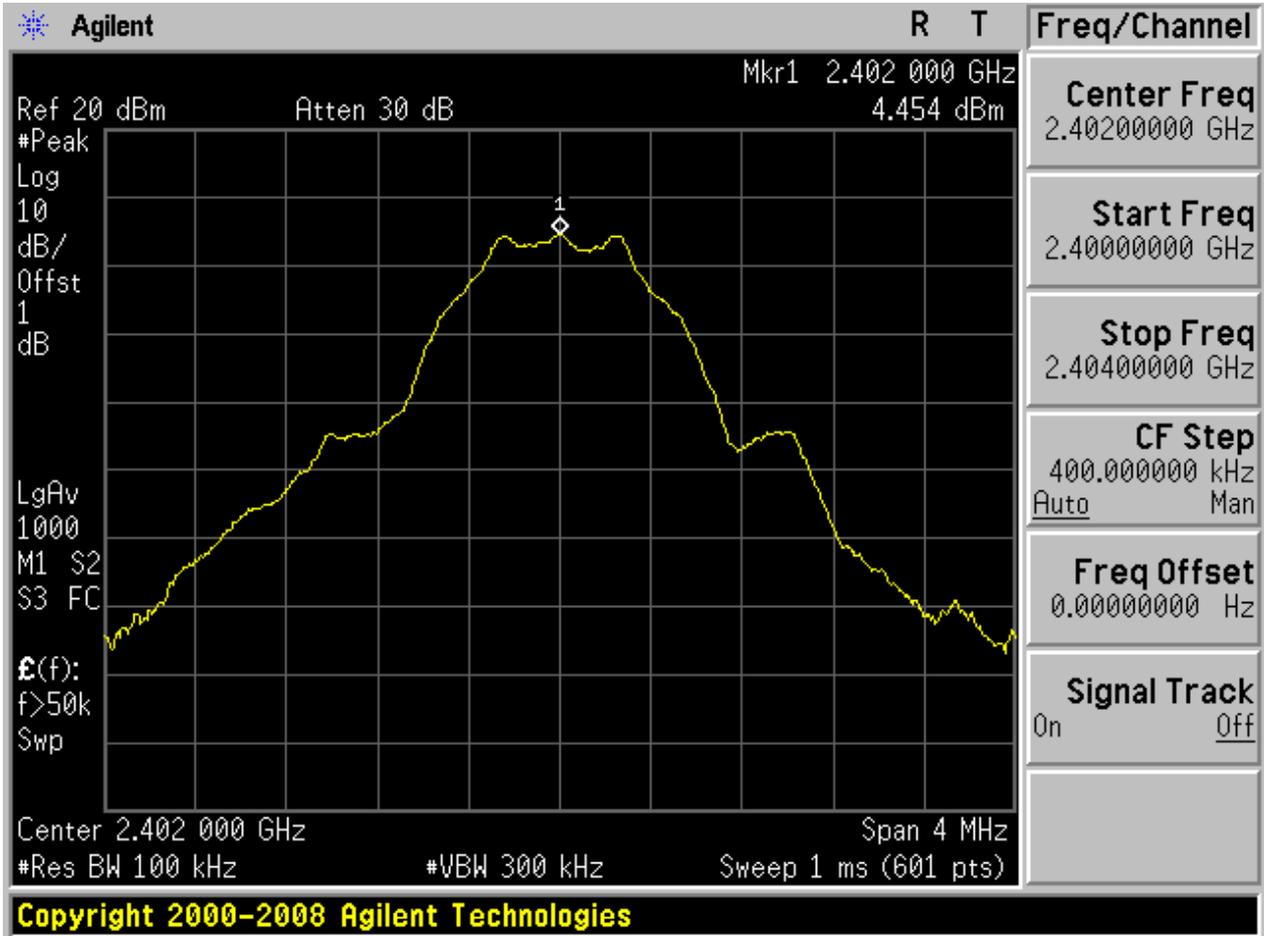
Test Mode	Test Channel	Frequency[MHz]	Ant	Pref[dBm]	Puw[dBm]	Verdict
TM1_Ch0	L	2402	Ant 1	4.45	<limit	pass
TM1_Ch19	M	2440	Ant 1	7.38	<limit	pass
TM1_Ch39	H	2480	Ant 1	5.26	<limit	pass



Part II - Test Plots

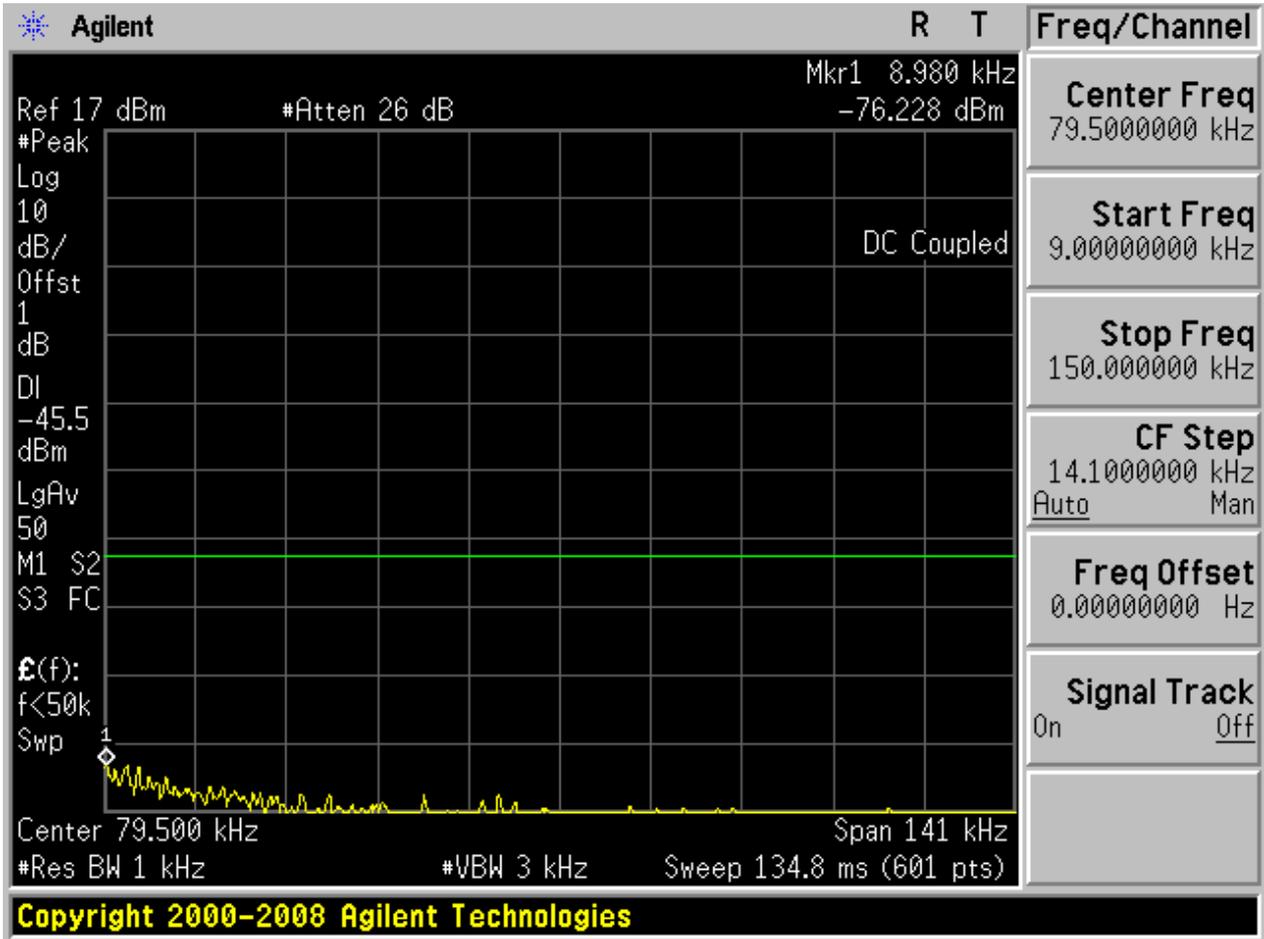
2.1 TM1\_Ch0\_L

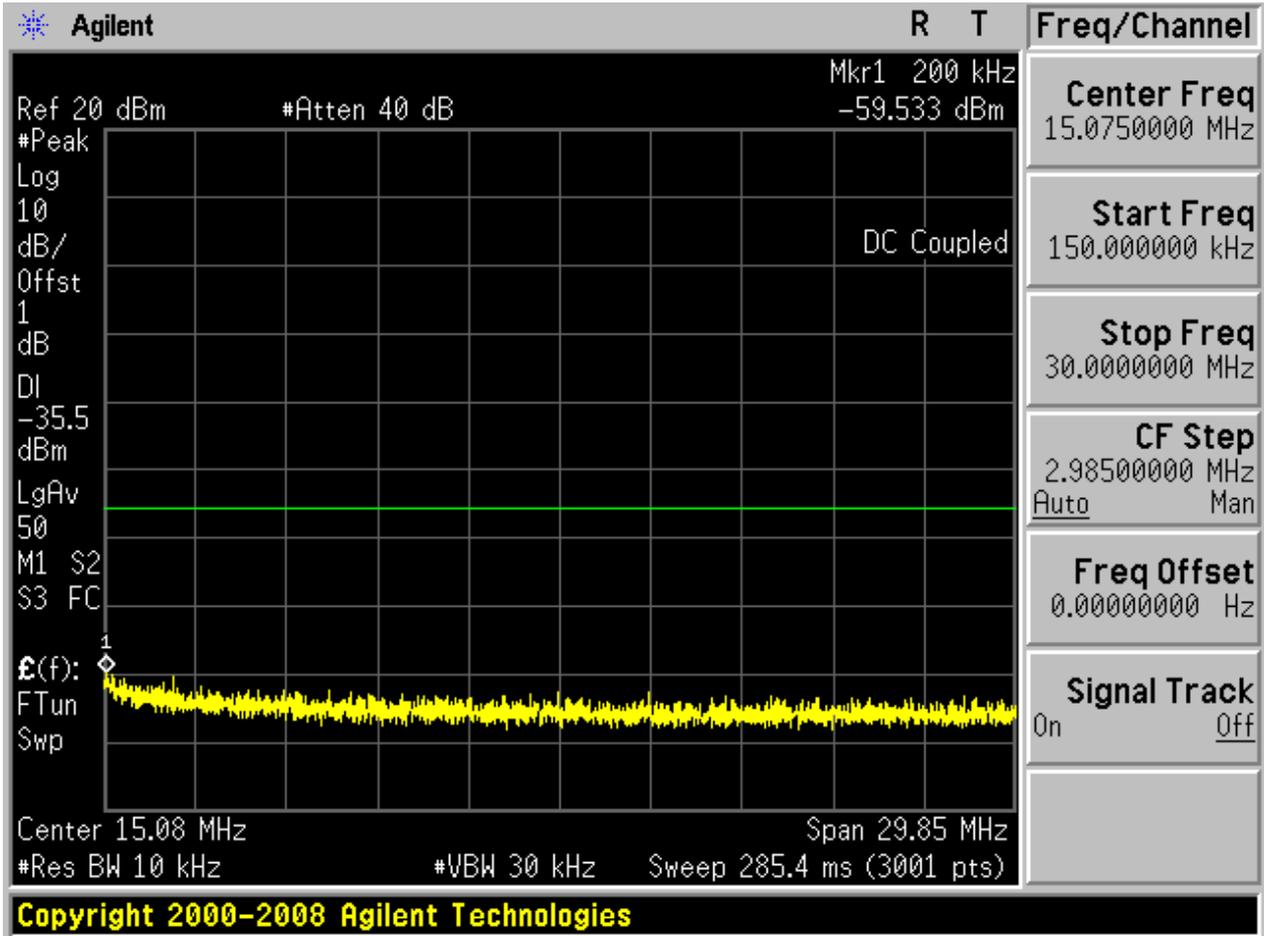
Pref:

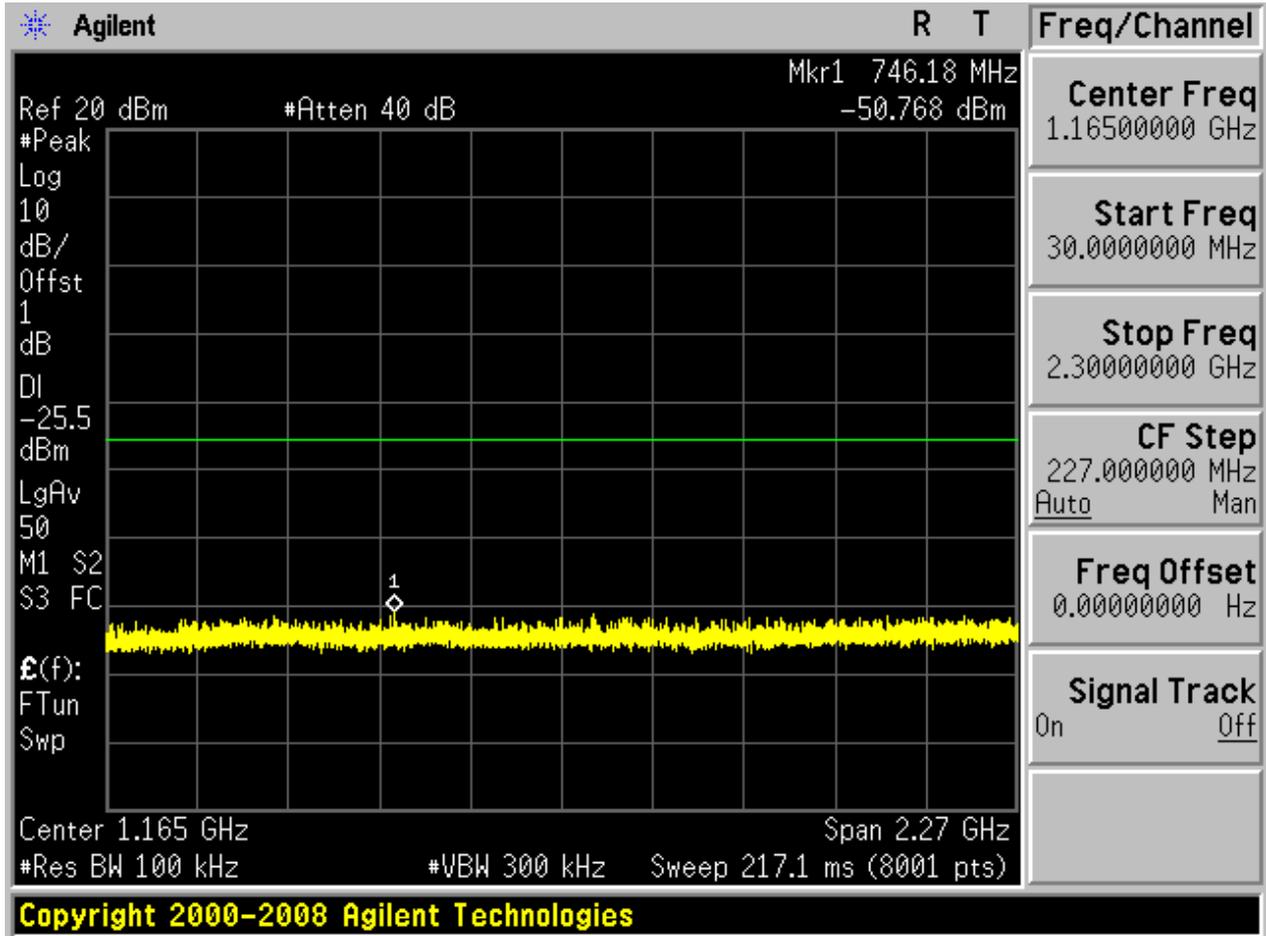


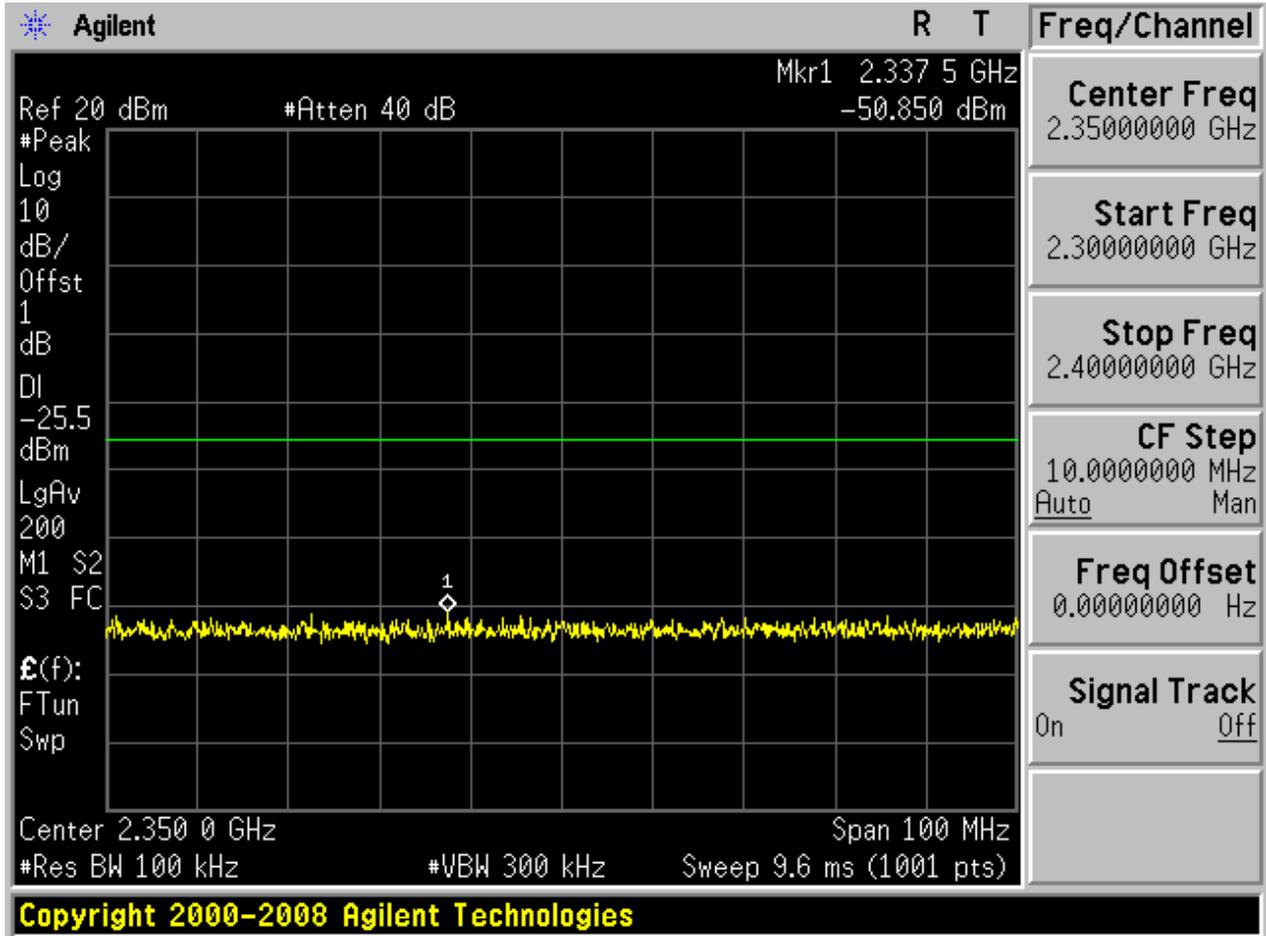


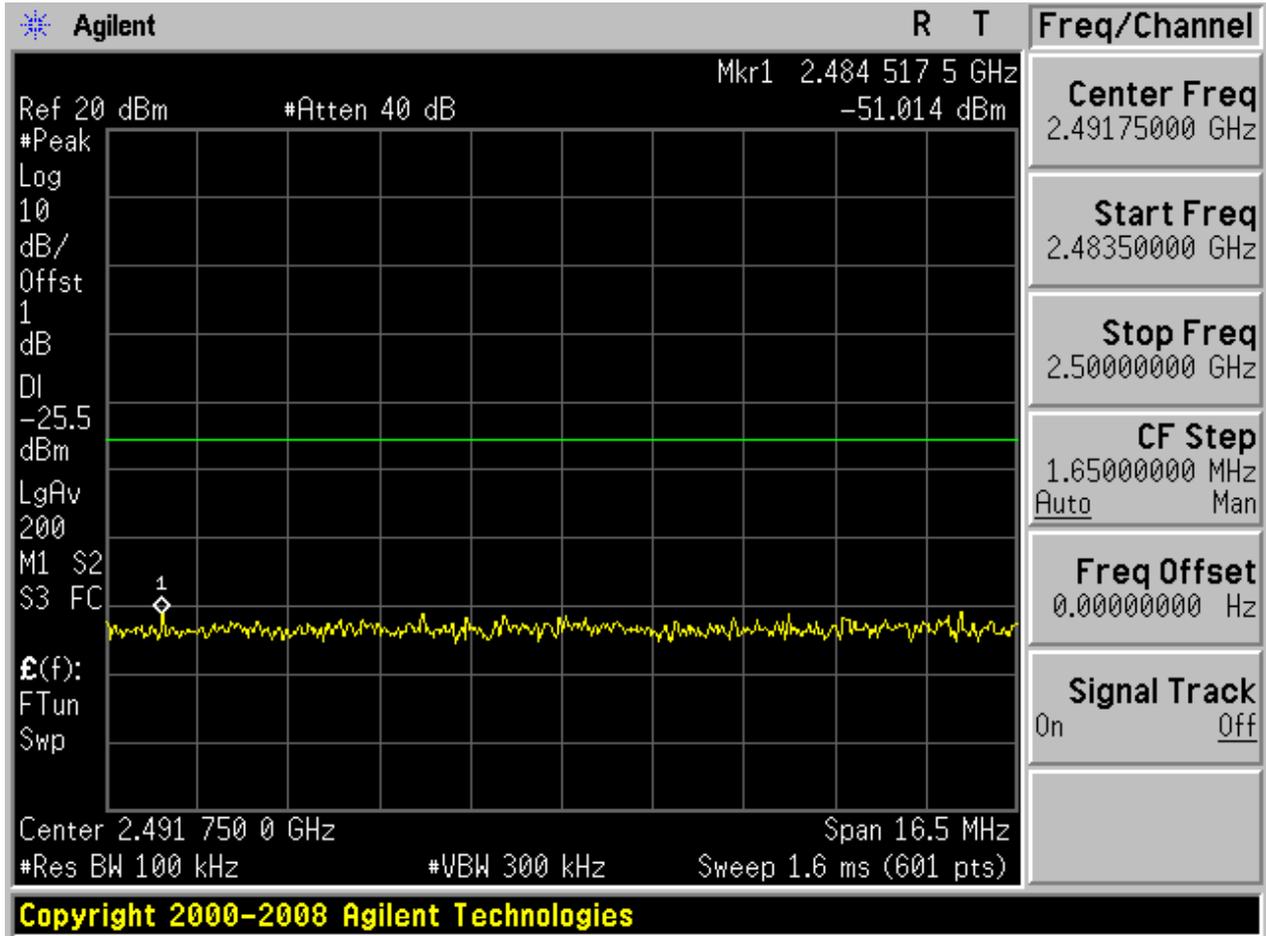
Puw:

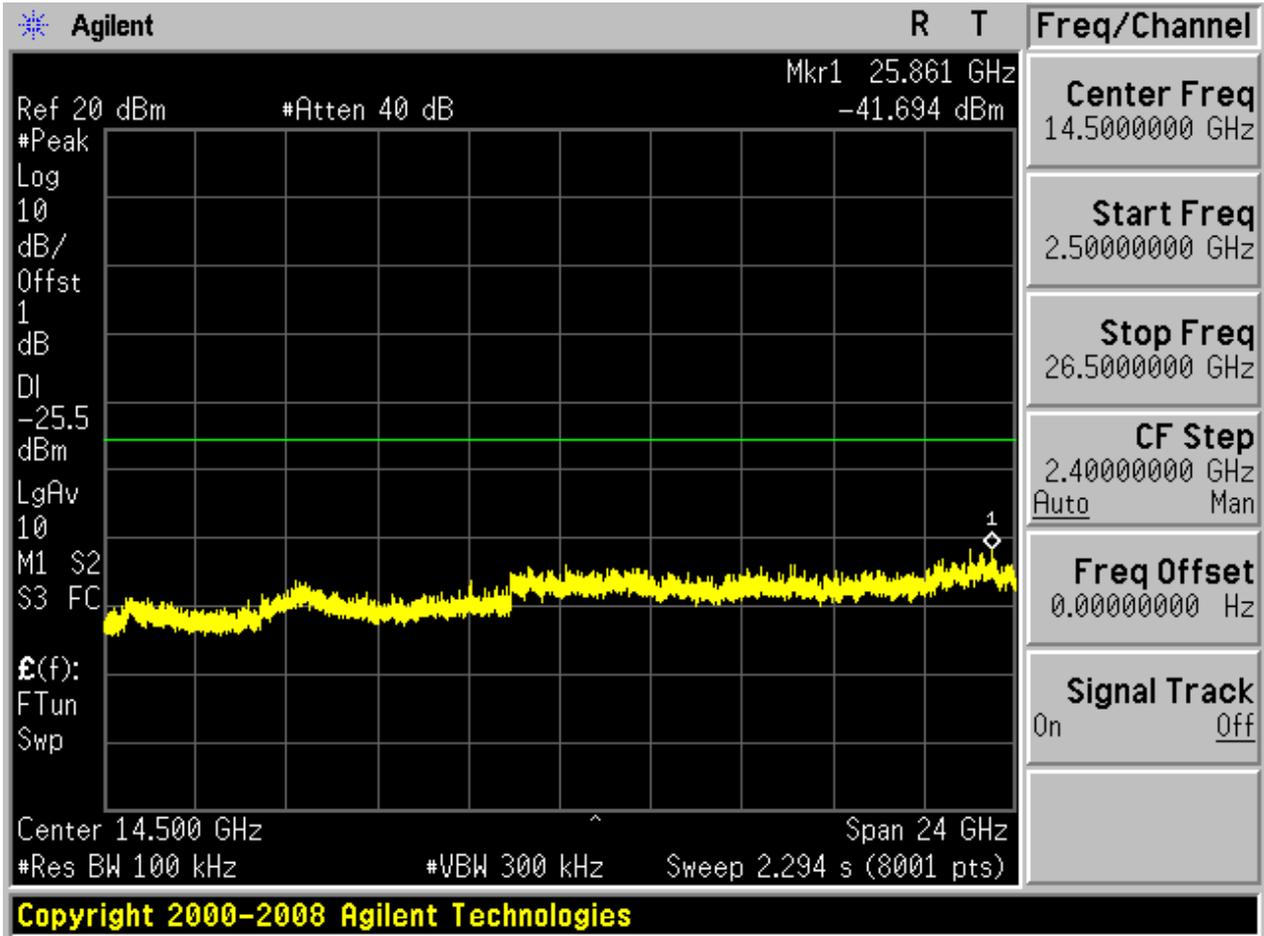






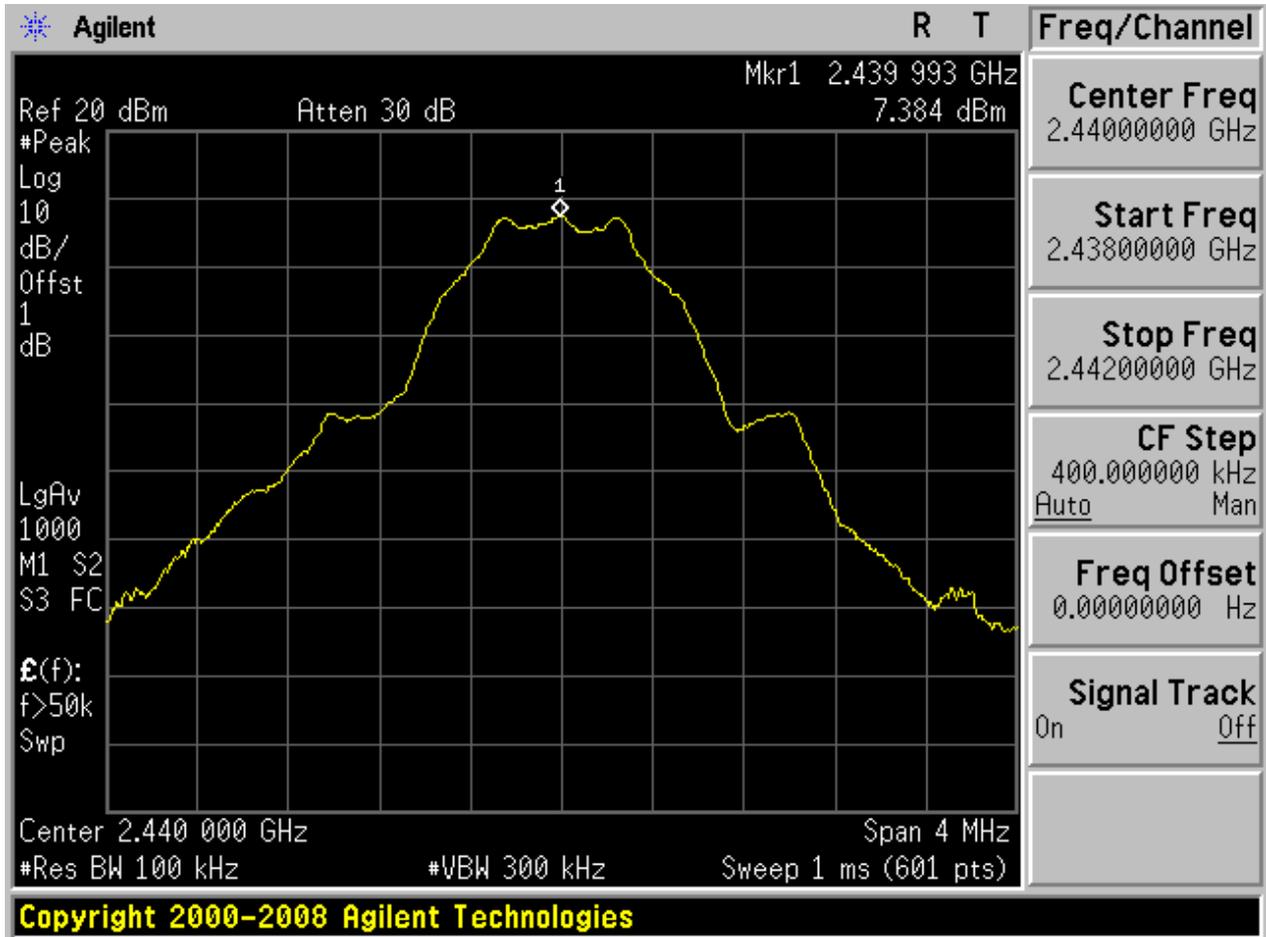






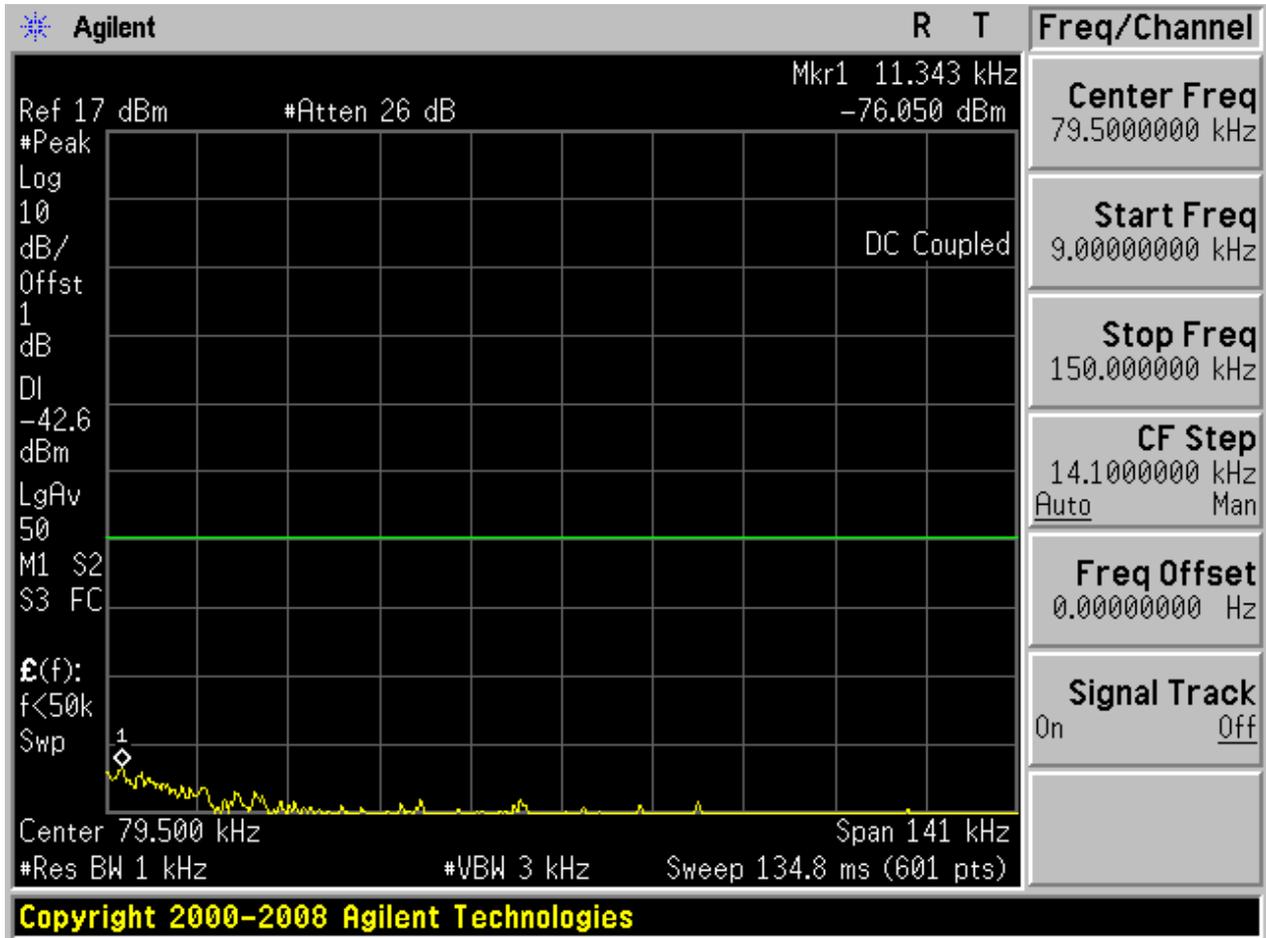
2.2 TM1\_Ch19\_M

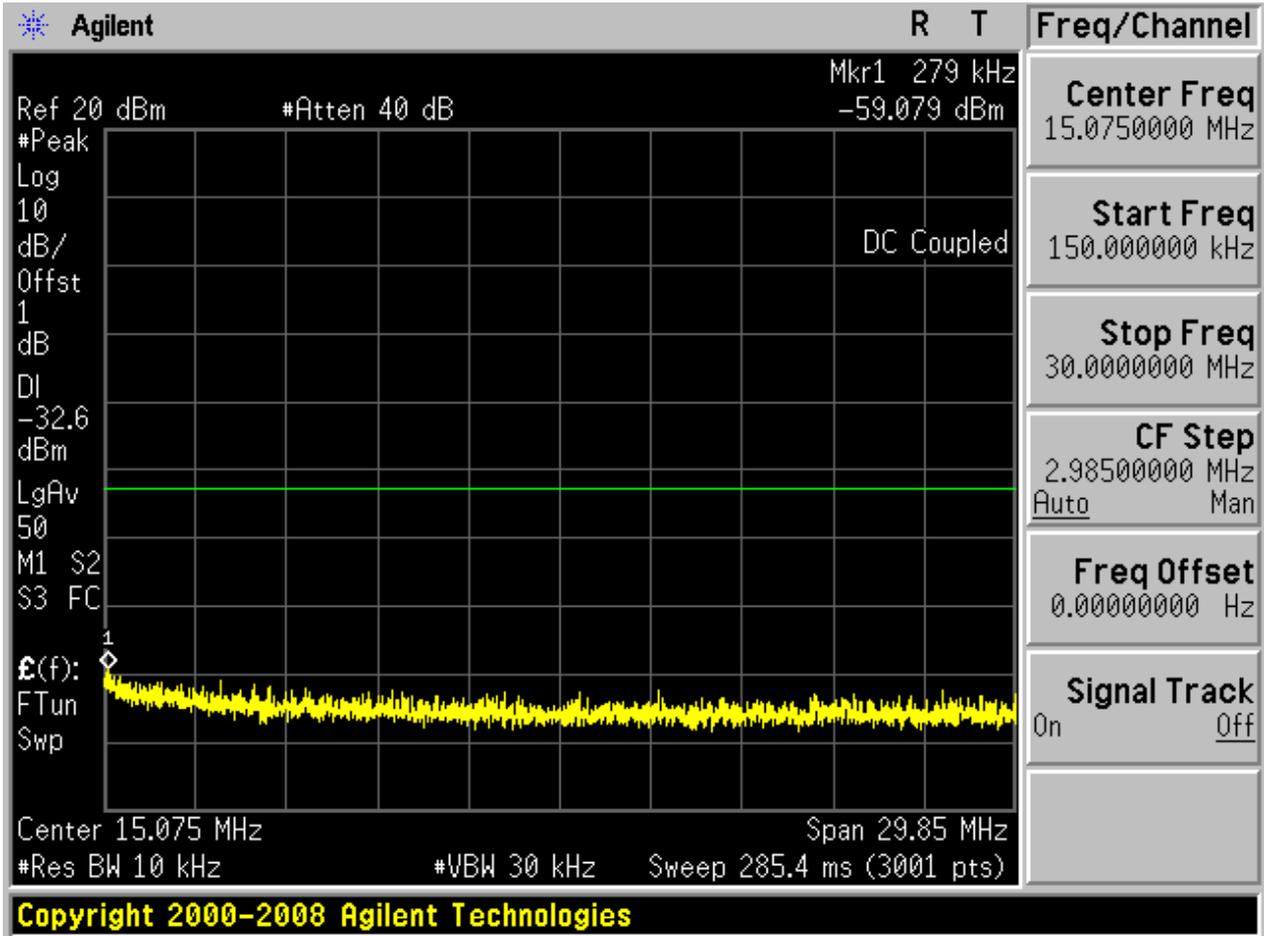
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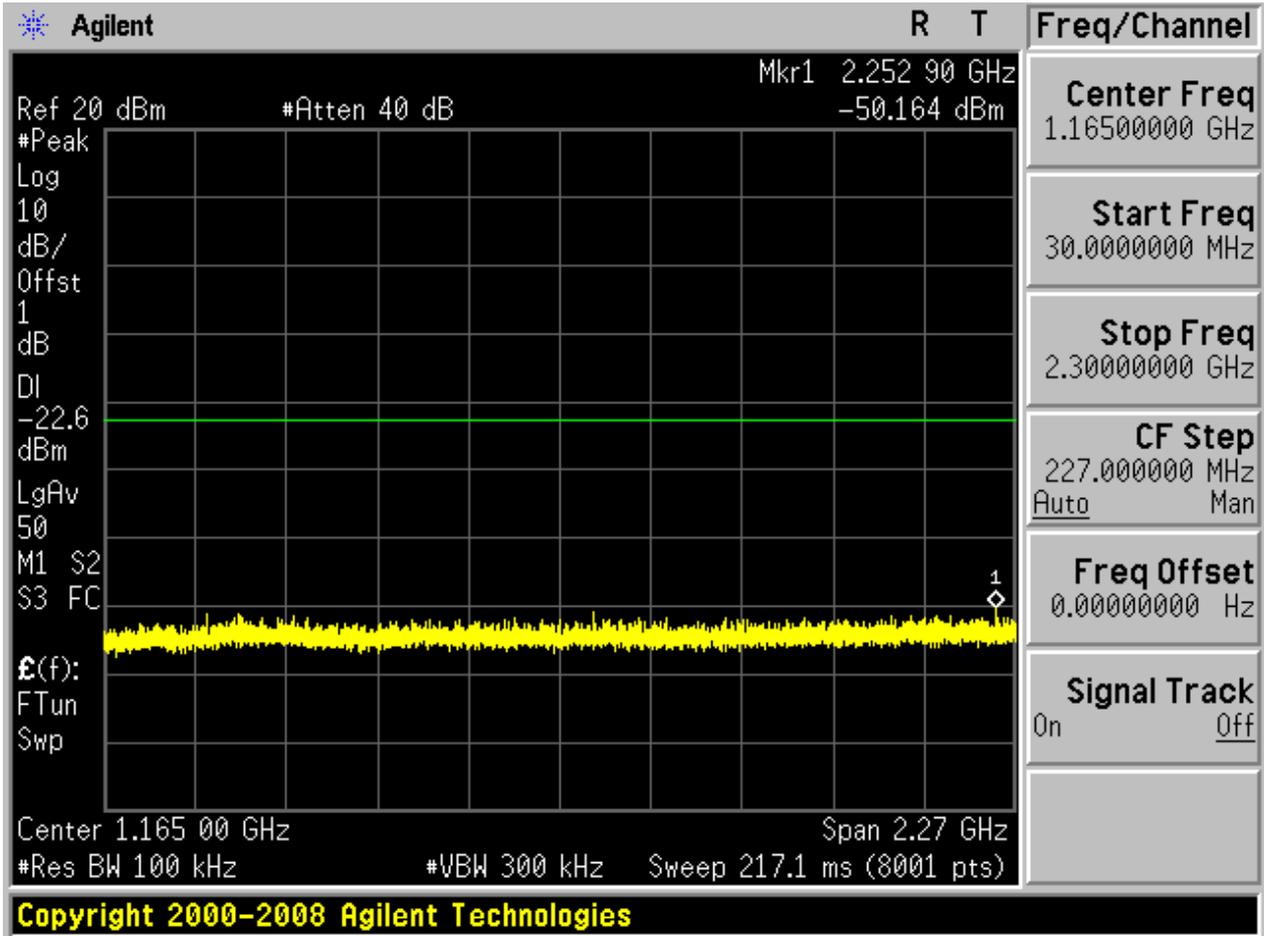


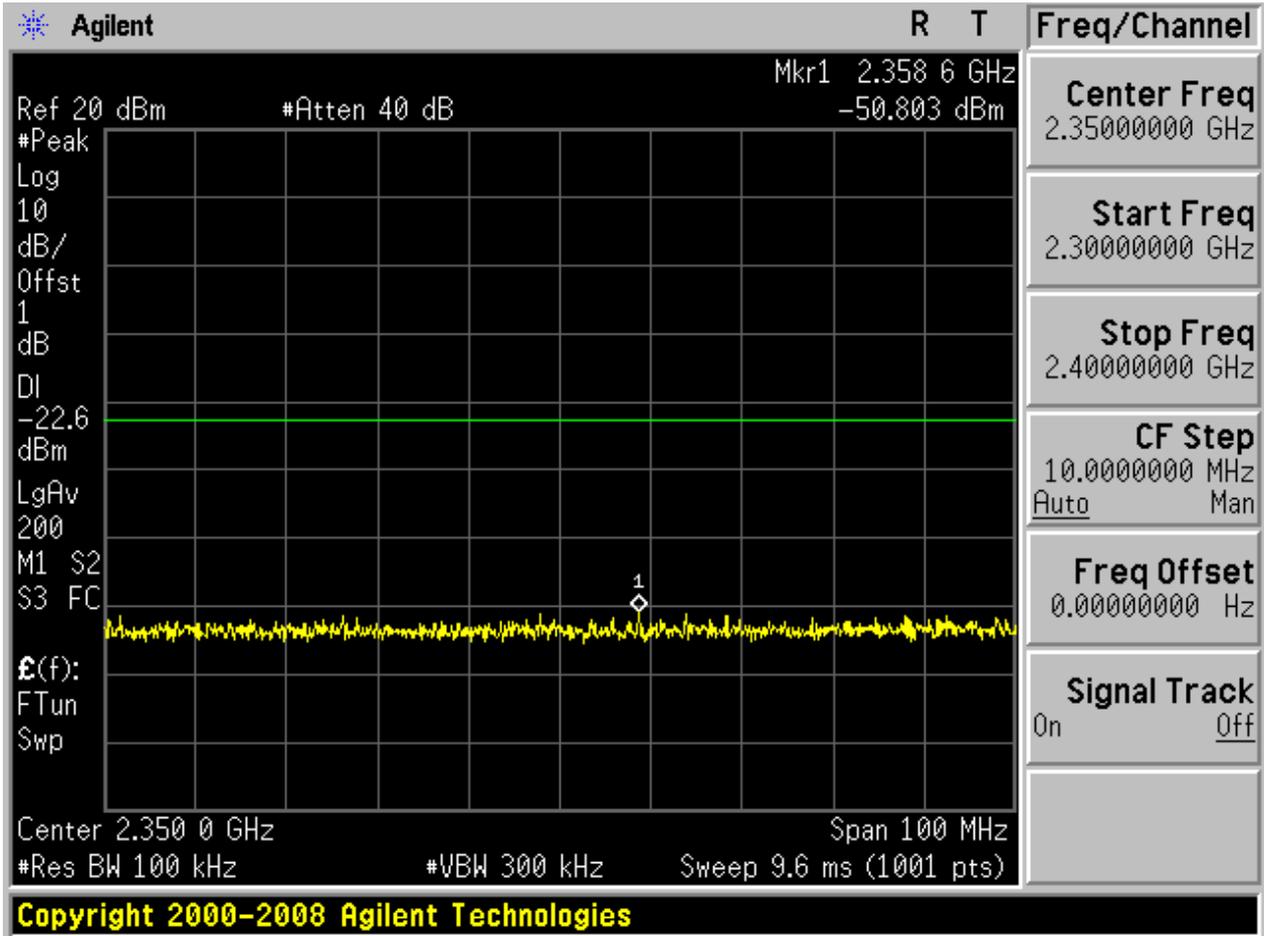


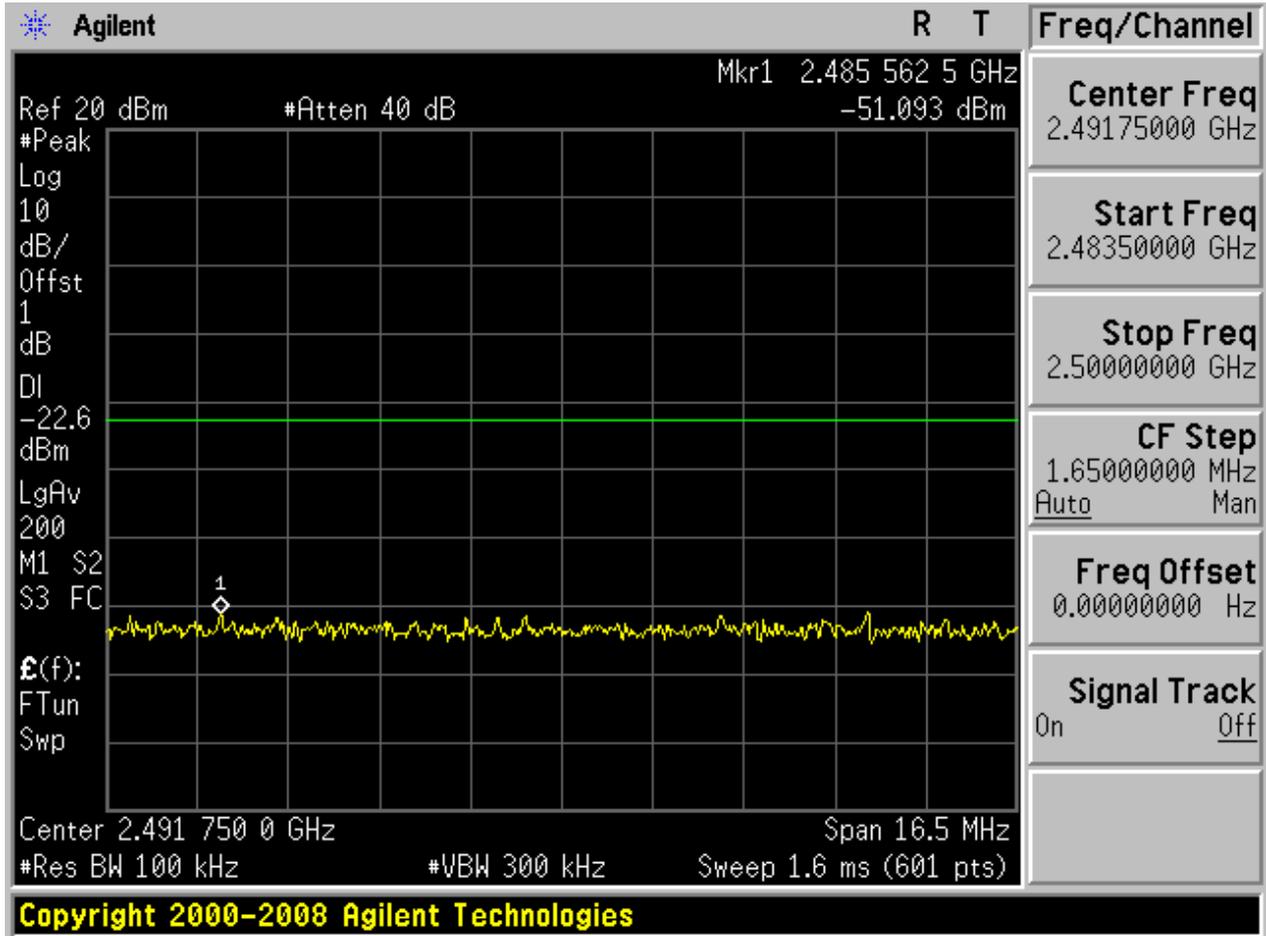
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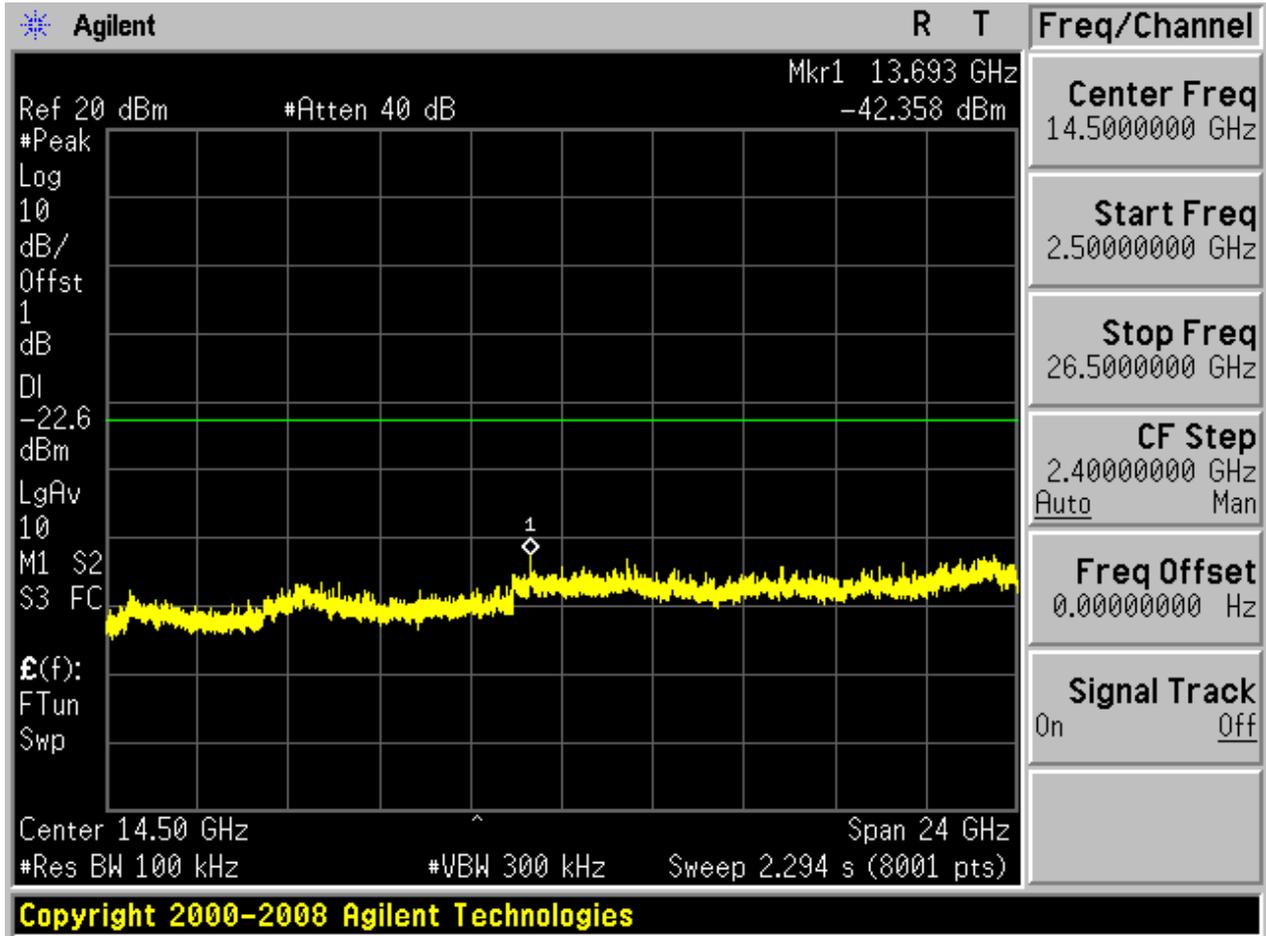








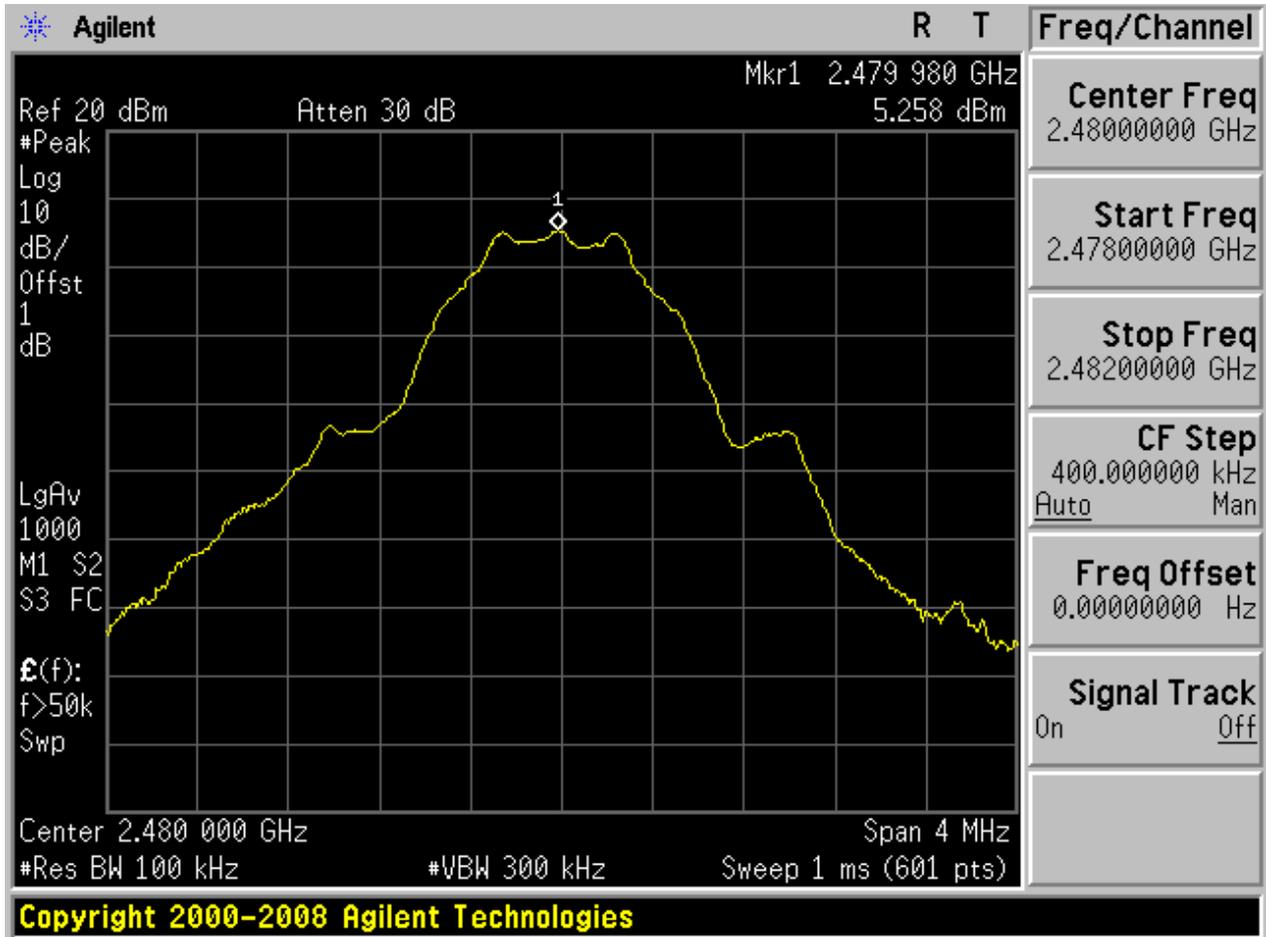






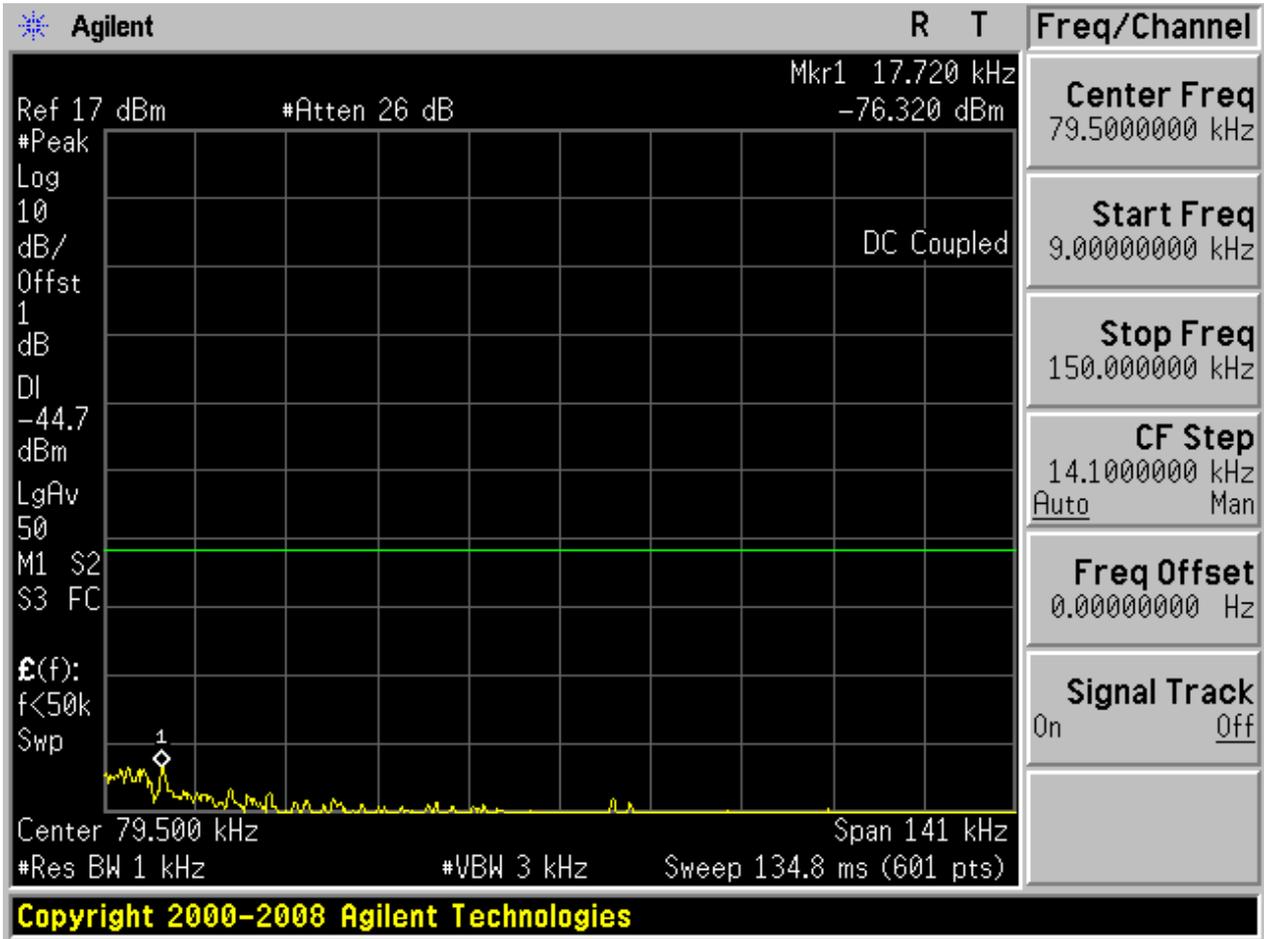
2.3 TM1\_Ch39\_H

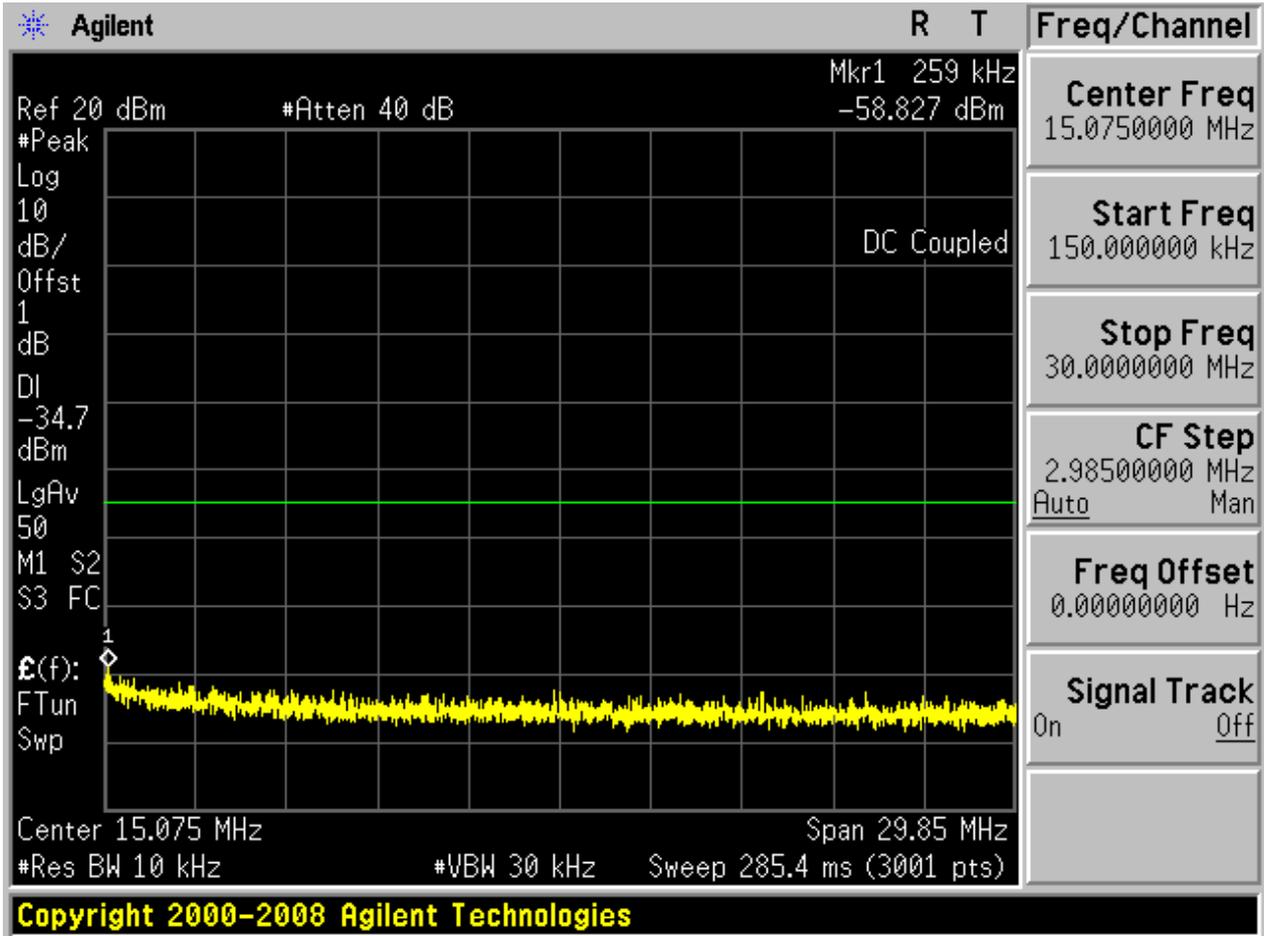
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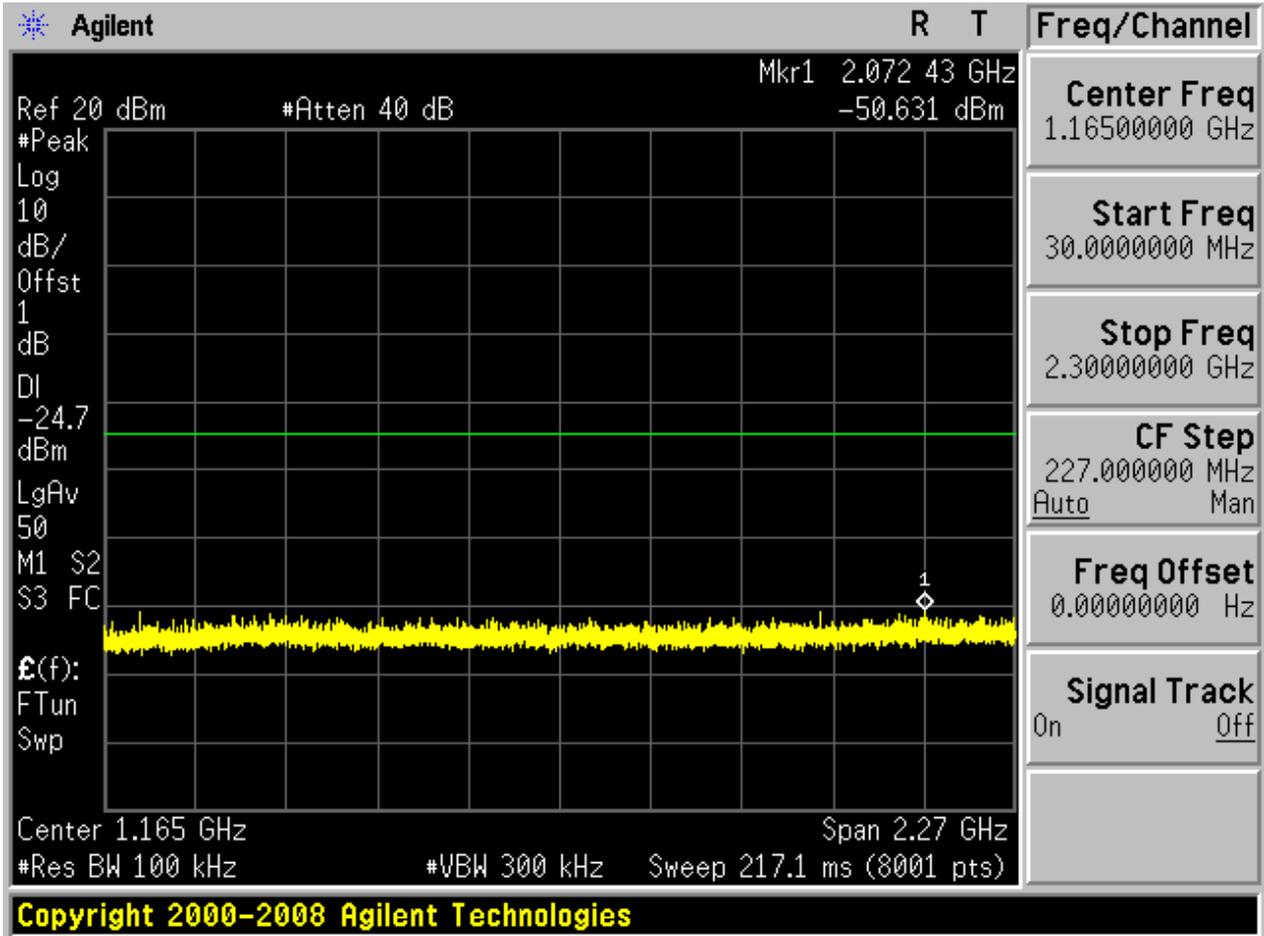


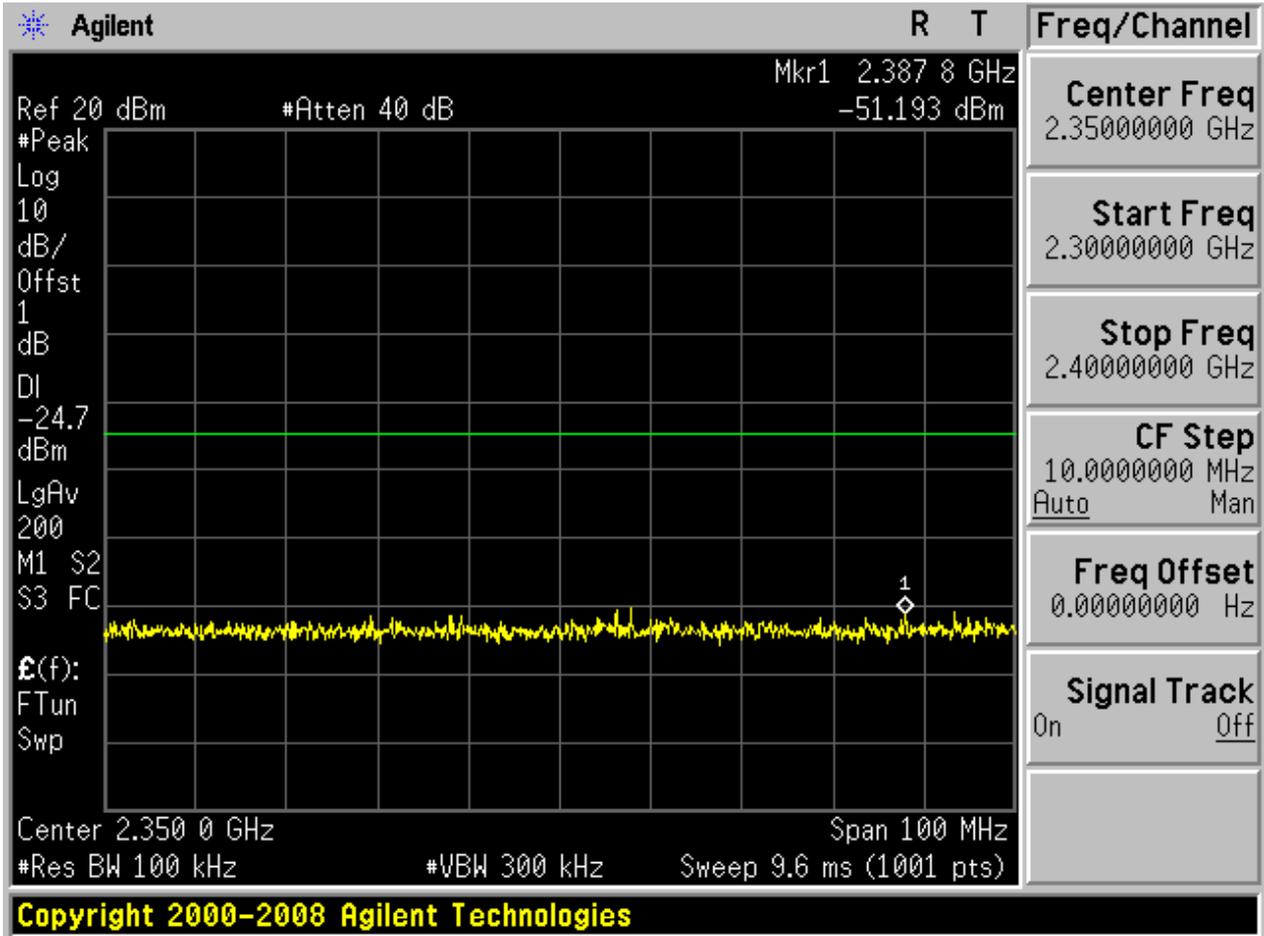


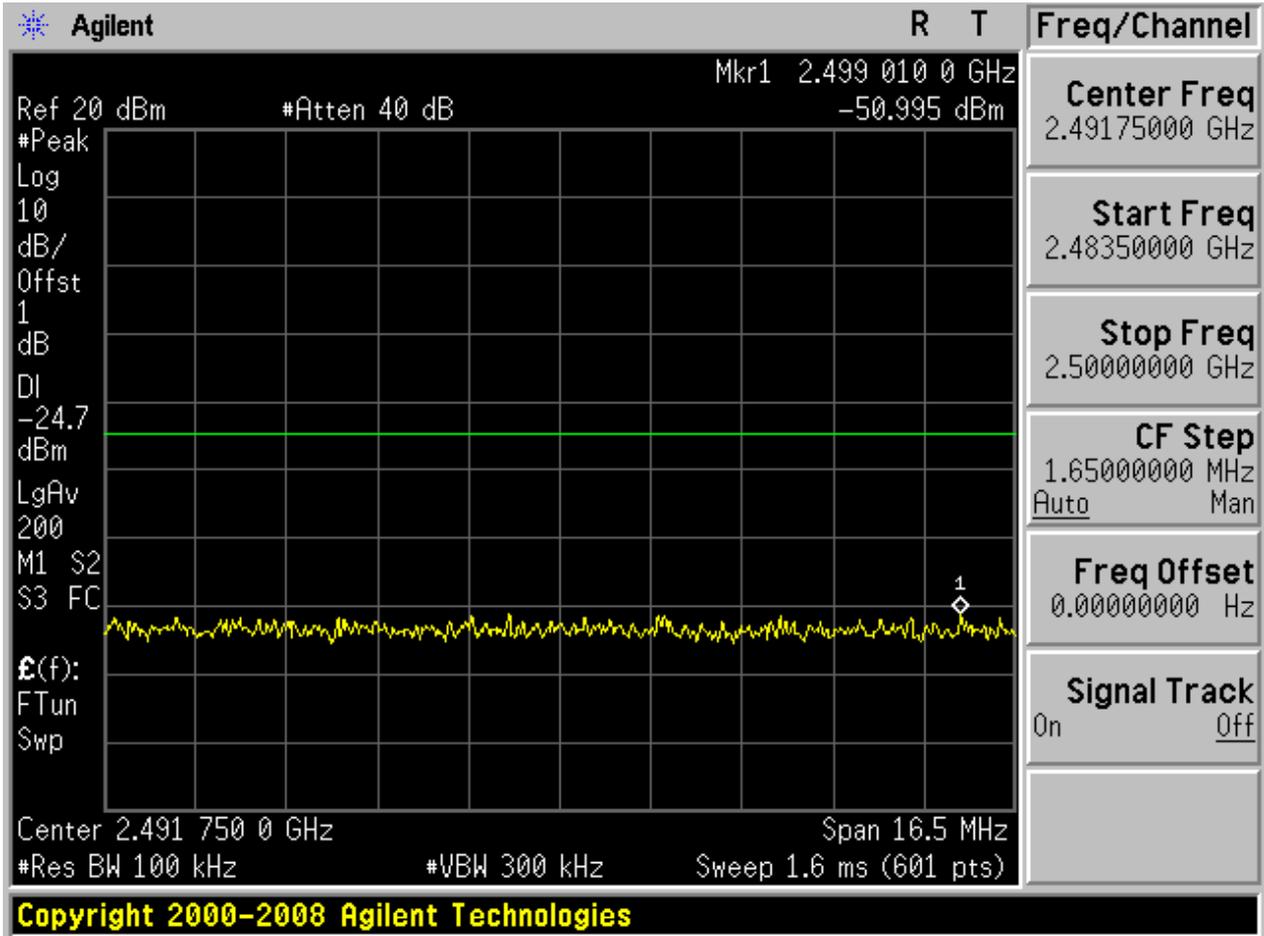
Puw:

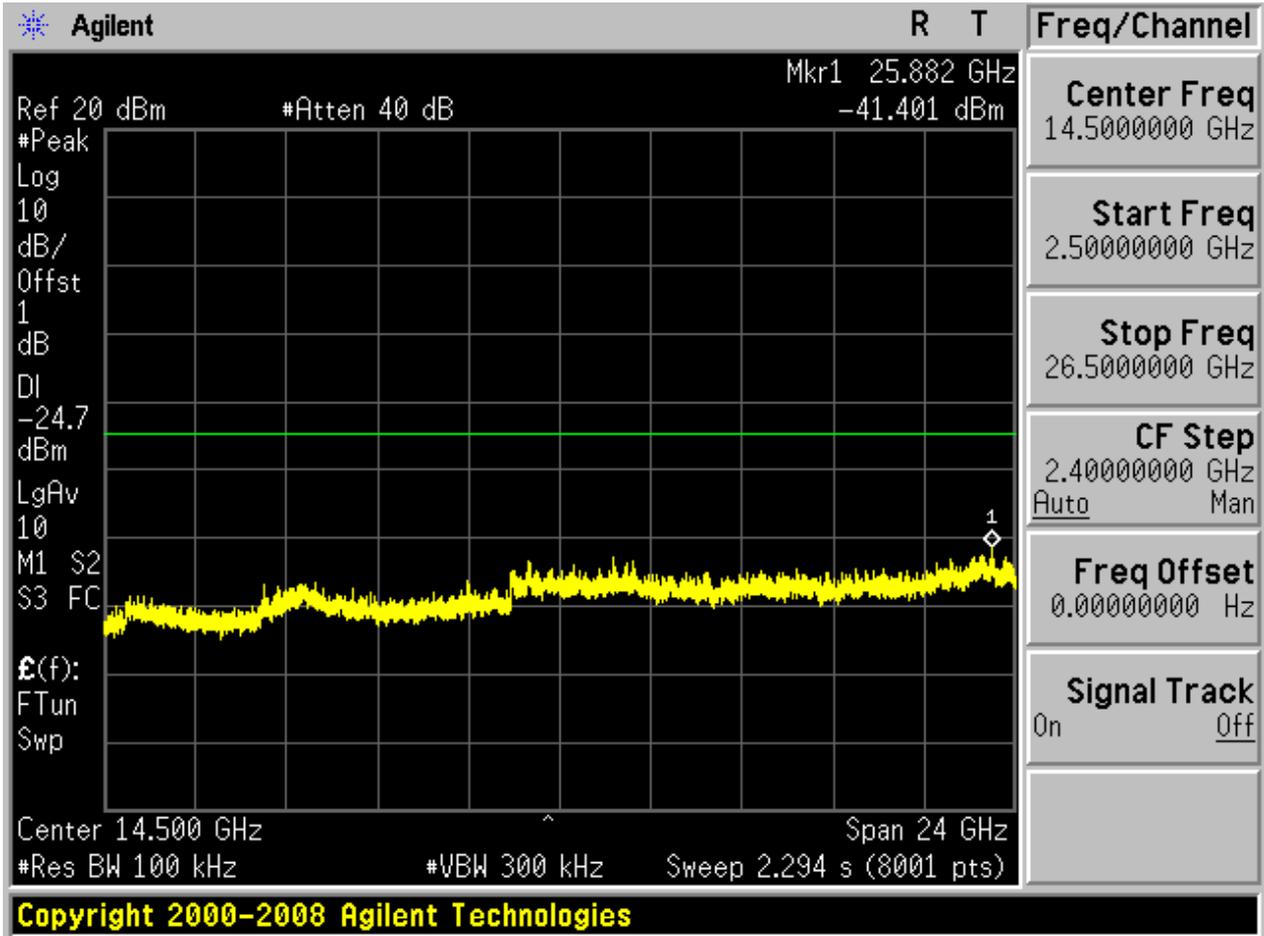














# Appendix H: AC Power Line Conducted Emissions



### Result Table

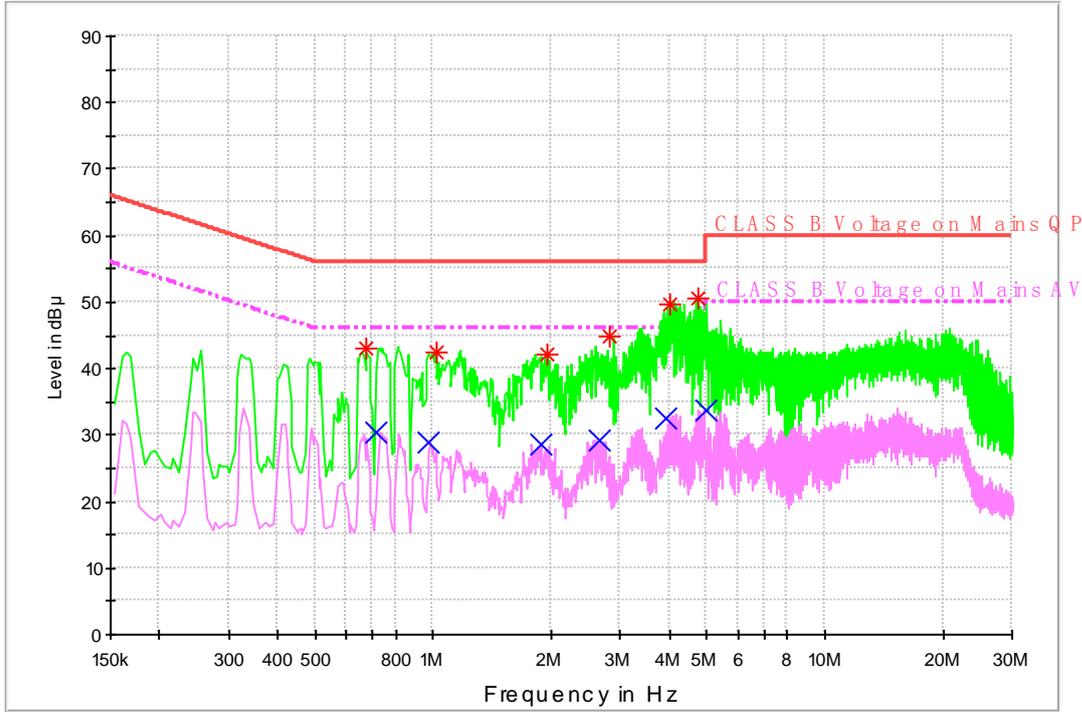
In this Appendix, only the test results and plots under the worst case can be reported.

EUT Conf.	Maximum Emissions	Verdict
TM1_DH5_Ch39	Not found obvious spikes or see marked spikes on plots and listed emissions records.	Pass

Result Plot

Channel 39

CLASS B Voltage with ENV216



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Correct Factor dB	Limit dBuV	Margin dB	Line
0.675694	43.0	9.7	56.0	13.0	L1
1.015755	42.3	9.7	56.0	13.7	L1
1.945459	42.0	9.7	56.0	14.0	L1
2.827110	44.7	9.7	56.0	11.3	L1
4.008514	49.6	9.8	56.0	6.4	L1
4.745284	50.6	9.8	56.0	5.4	L1

## Final Result 2

Frequency (MHz)	Average (dB $\mu$ V)	Correct Factor dB	Limit dB $\mu$ V	Margin dB	Line
0.718395	30.5	9.7	46.0	15.5	L1
0.973766	29.0	9.7	46.0	17.0	L1
1.880456	28.5	9.7	46.0	17.5	L1
2.654779	29.2	9.7	46.0	16.8	L1
3.940332	32.6	9.8	46.0	13.4	L1
4.953236	33.7	9.8	46.0	12.6	L1

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END