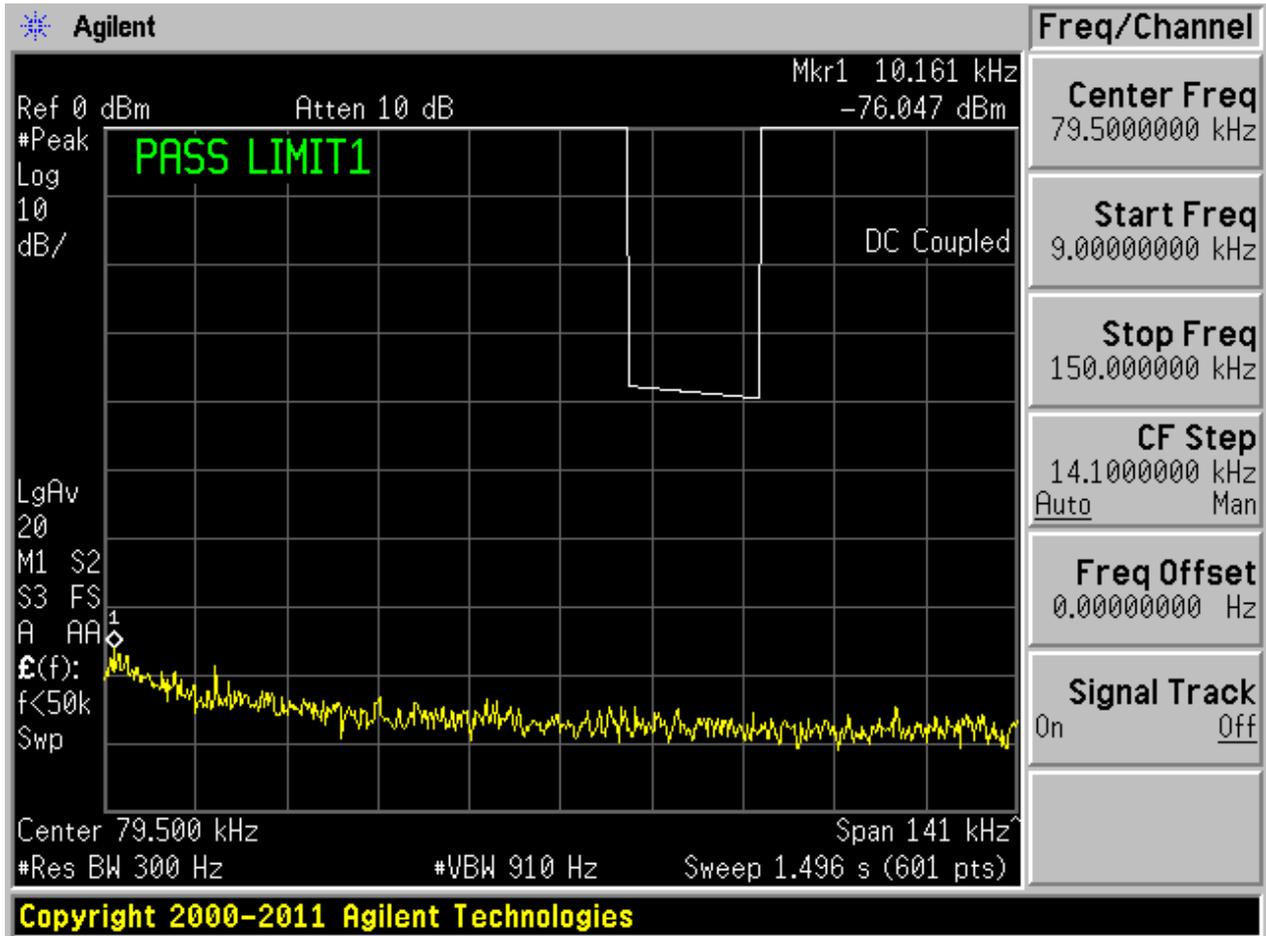
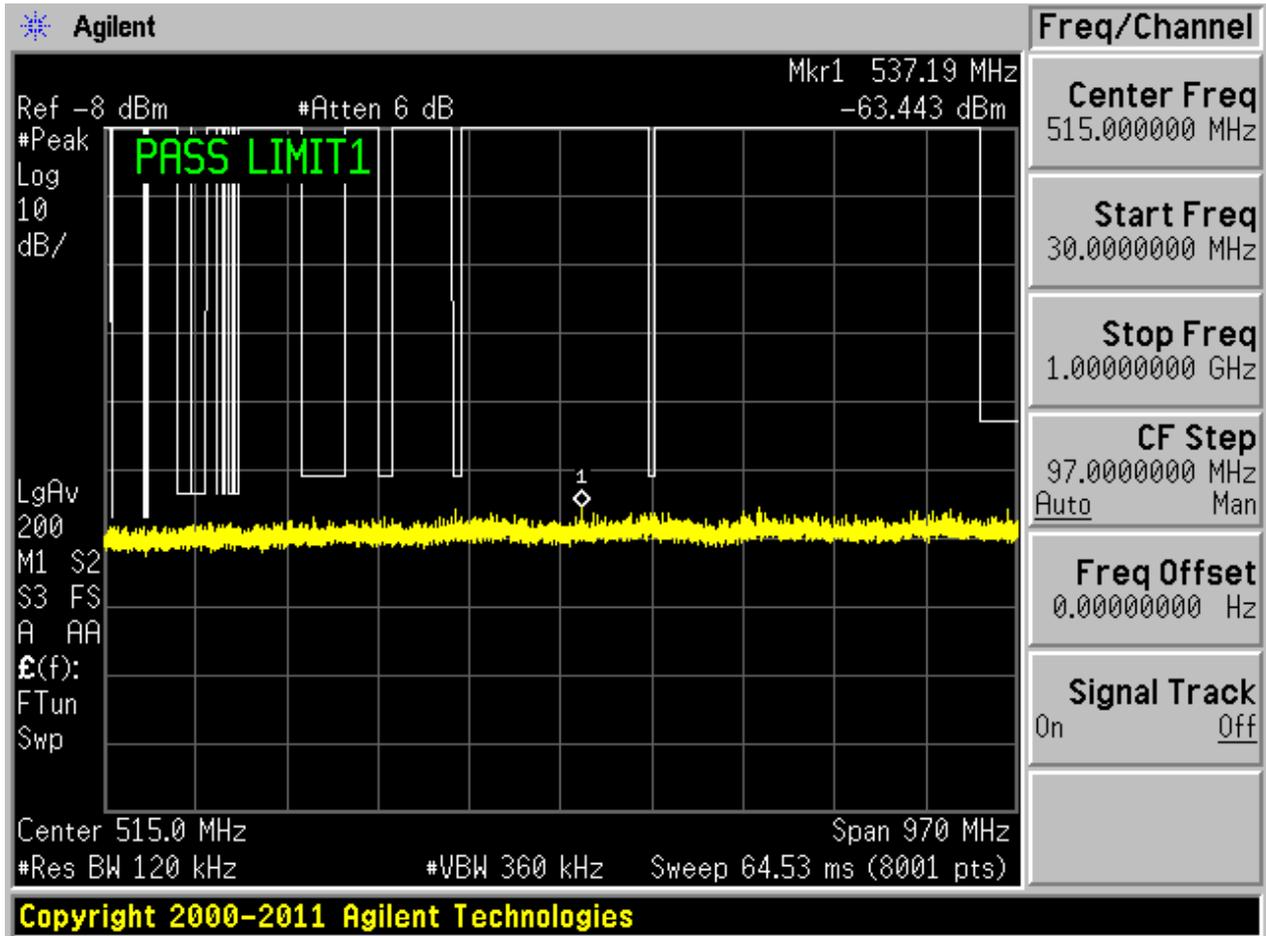
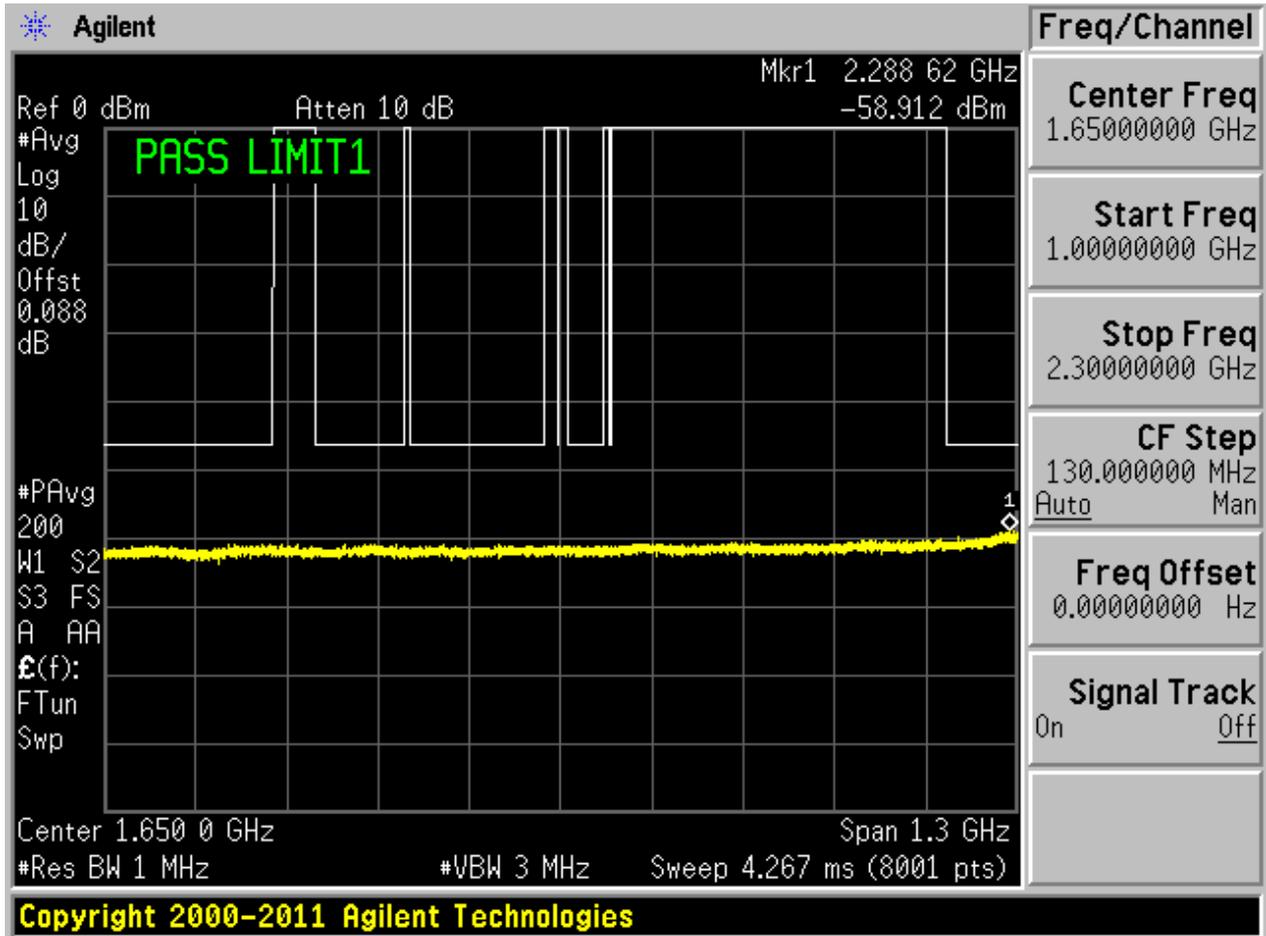
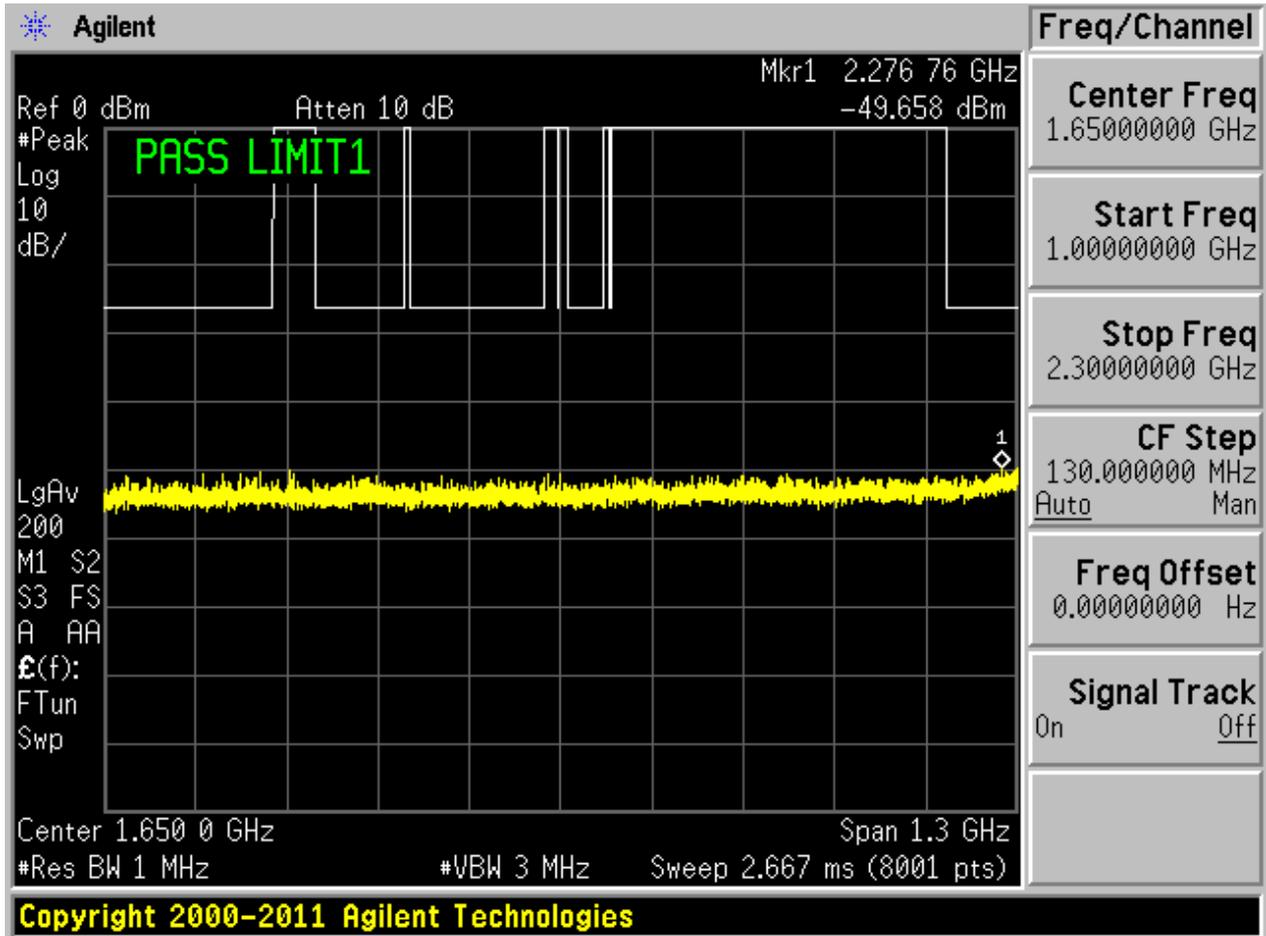


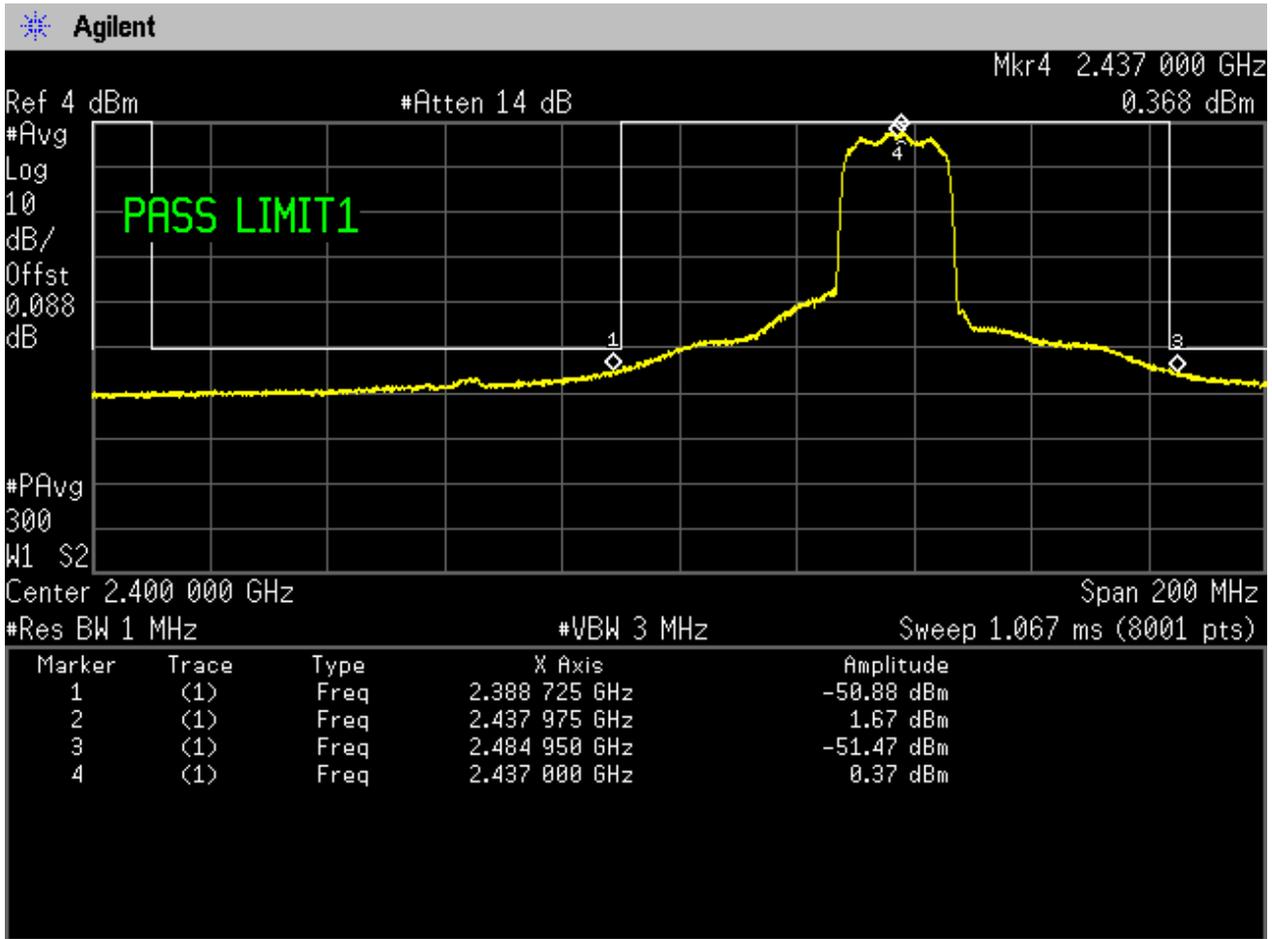
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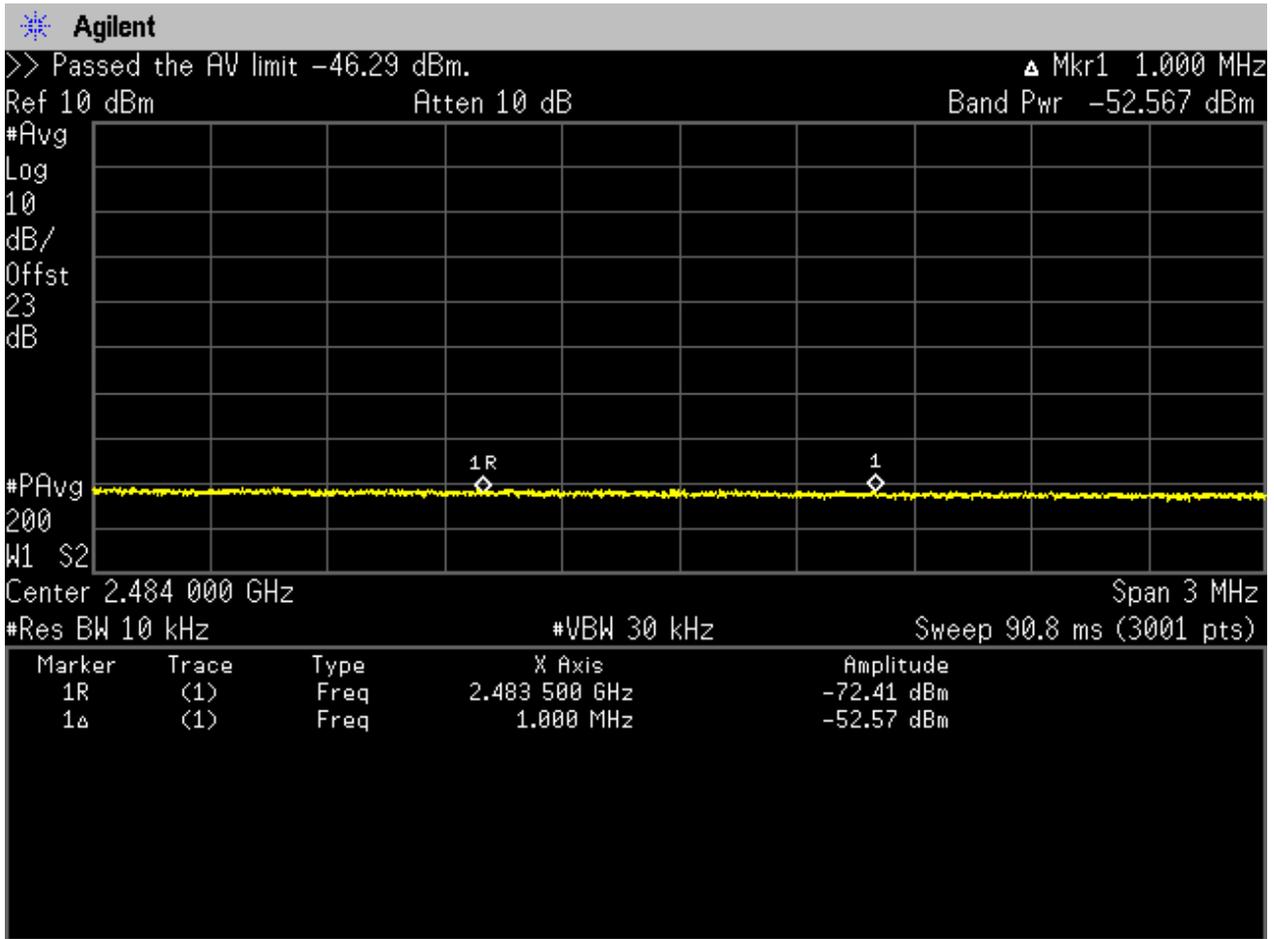


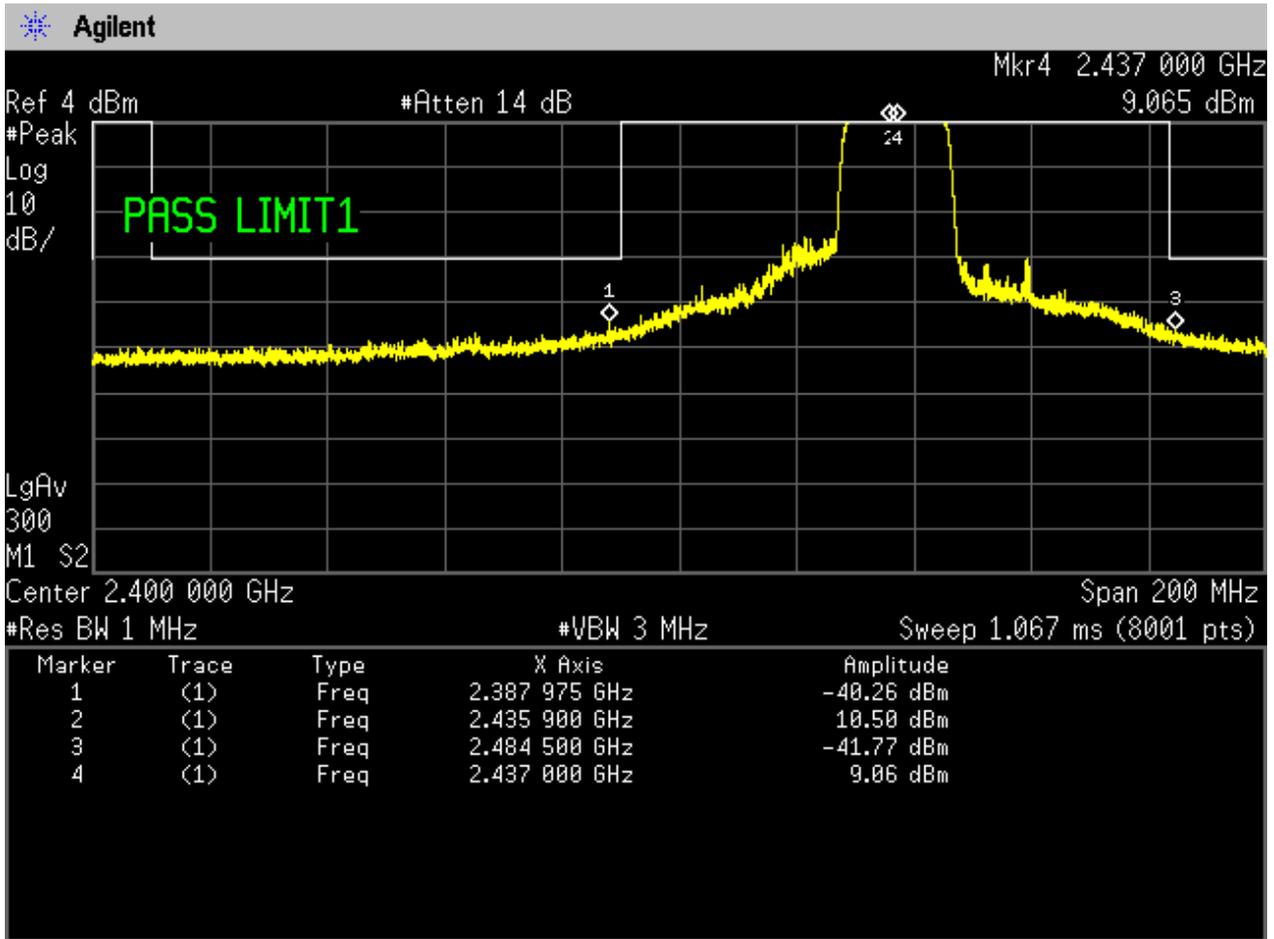


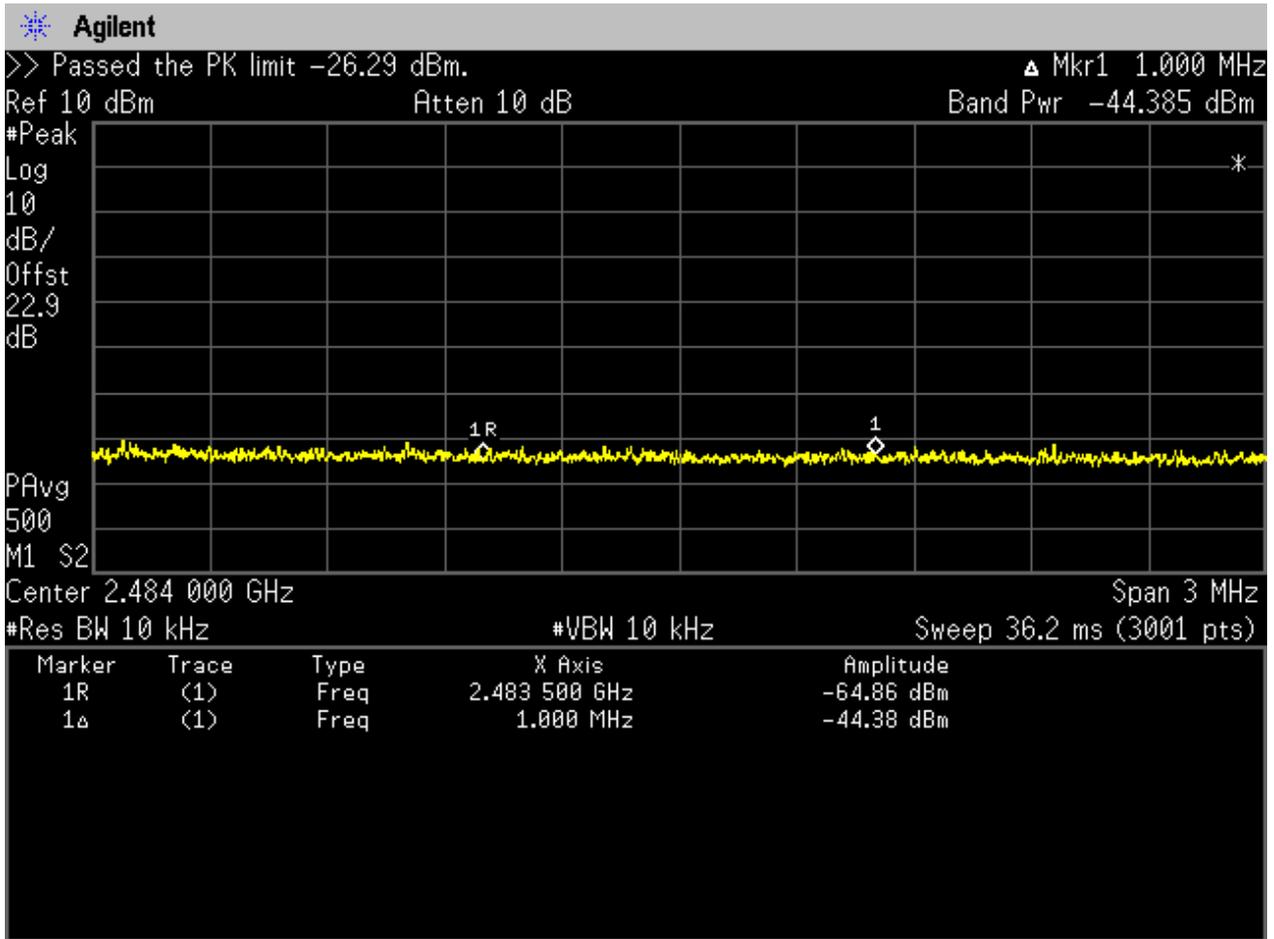


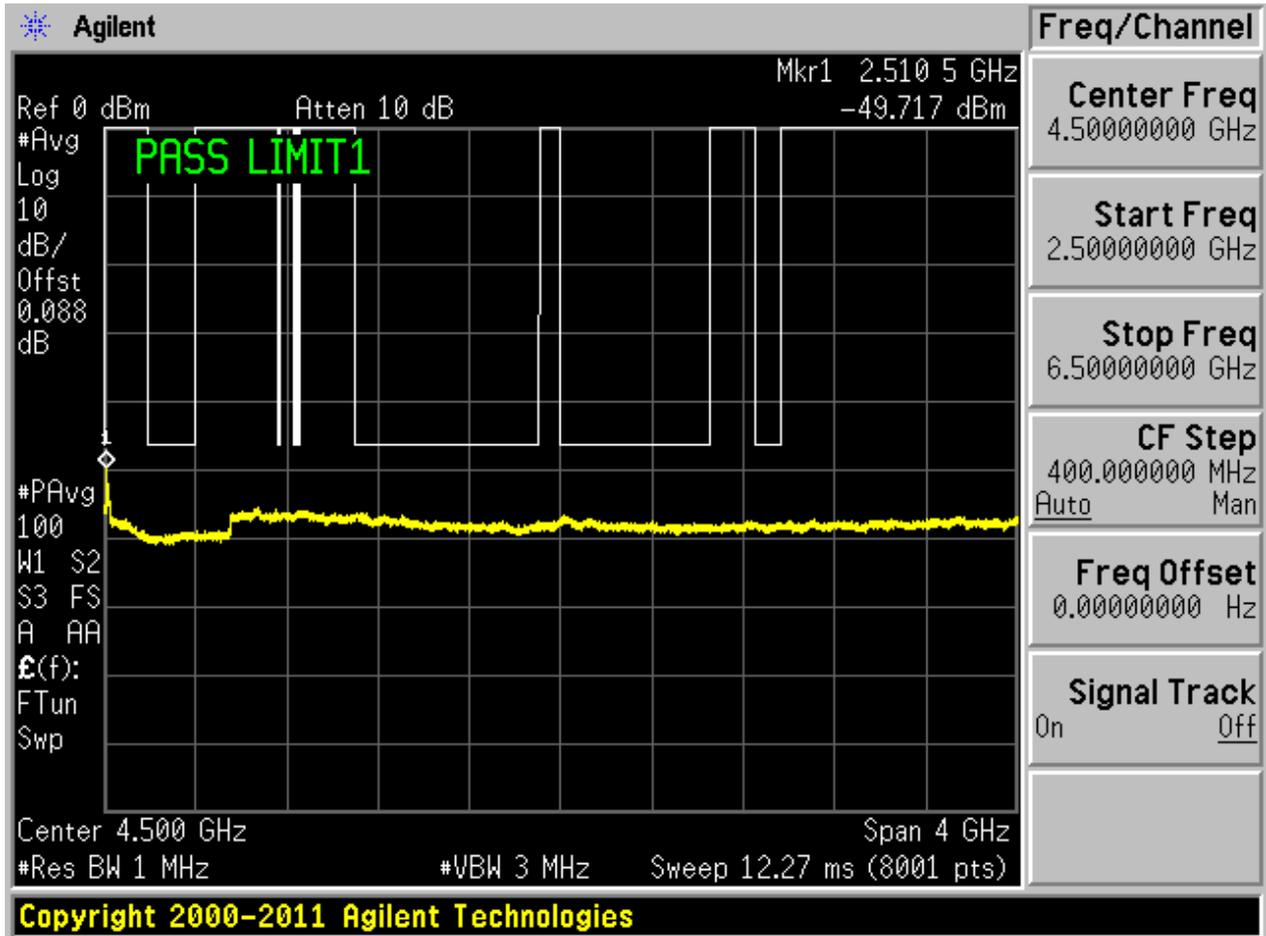


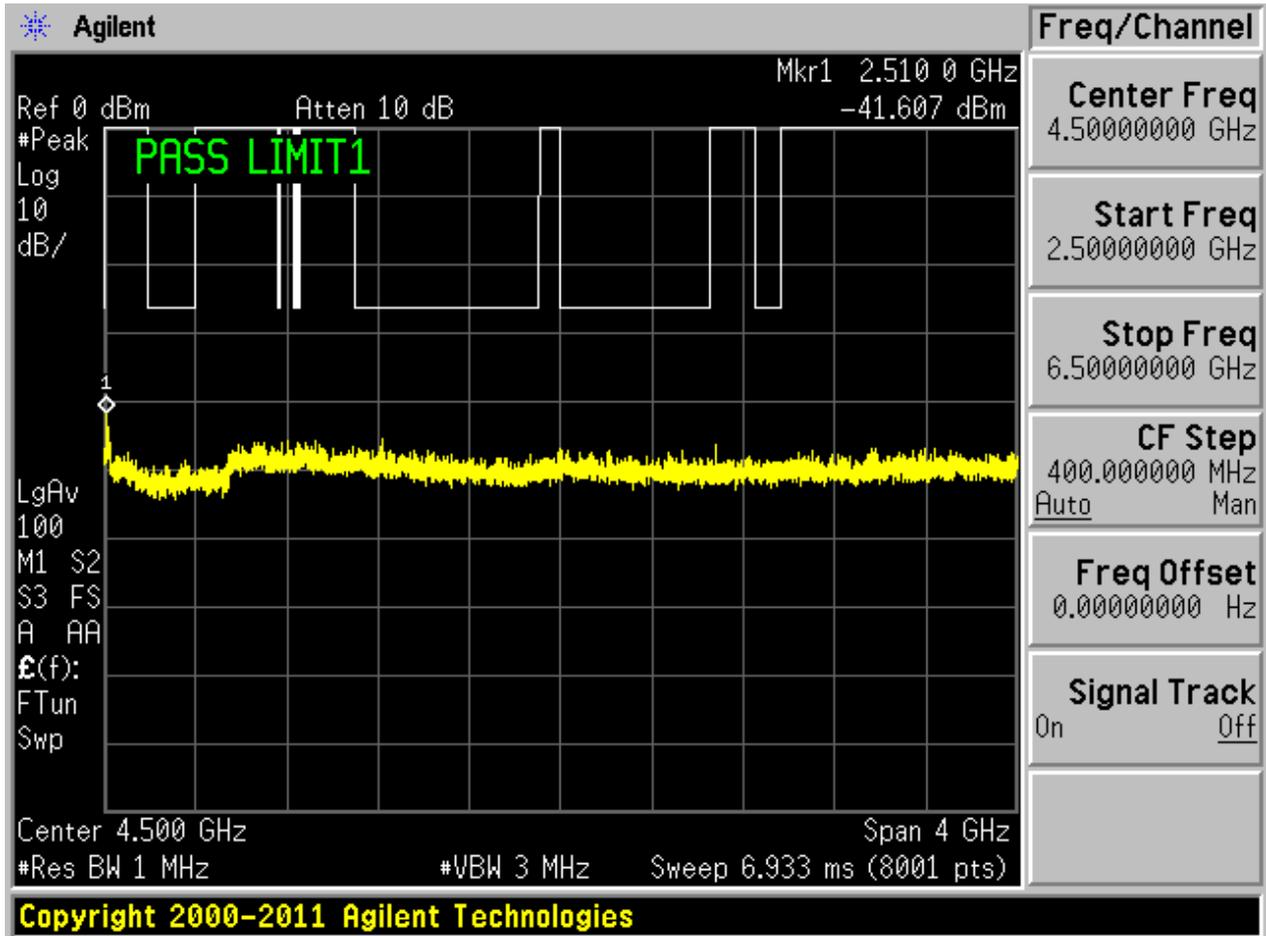


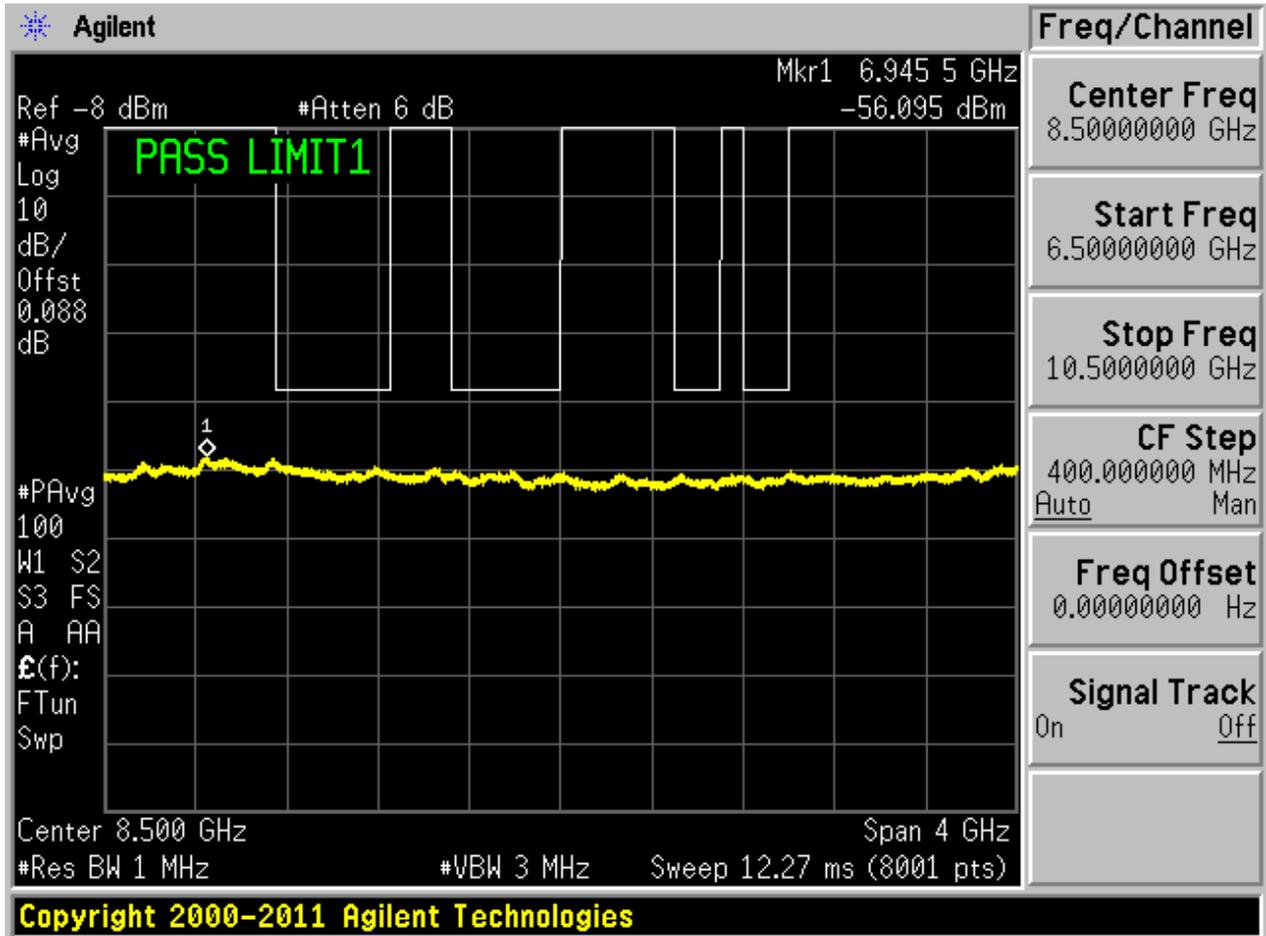


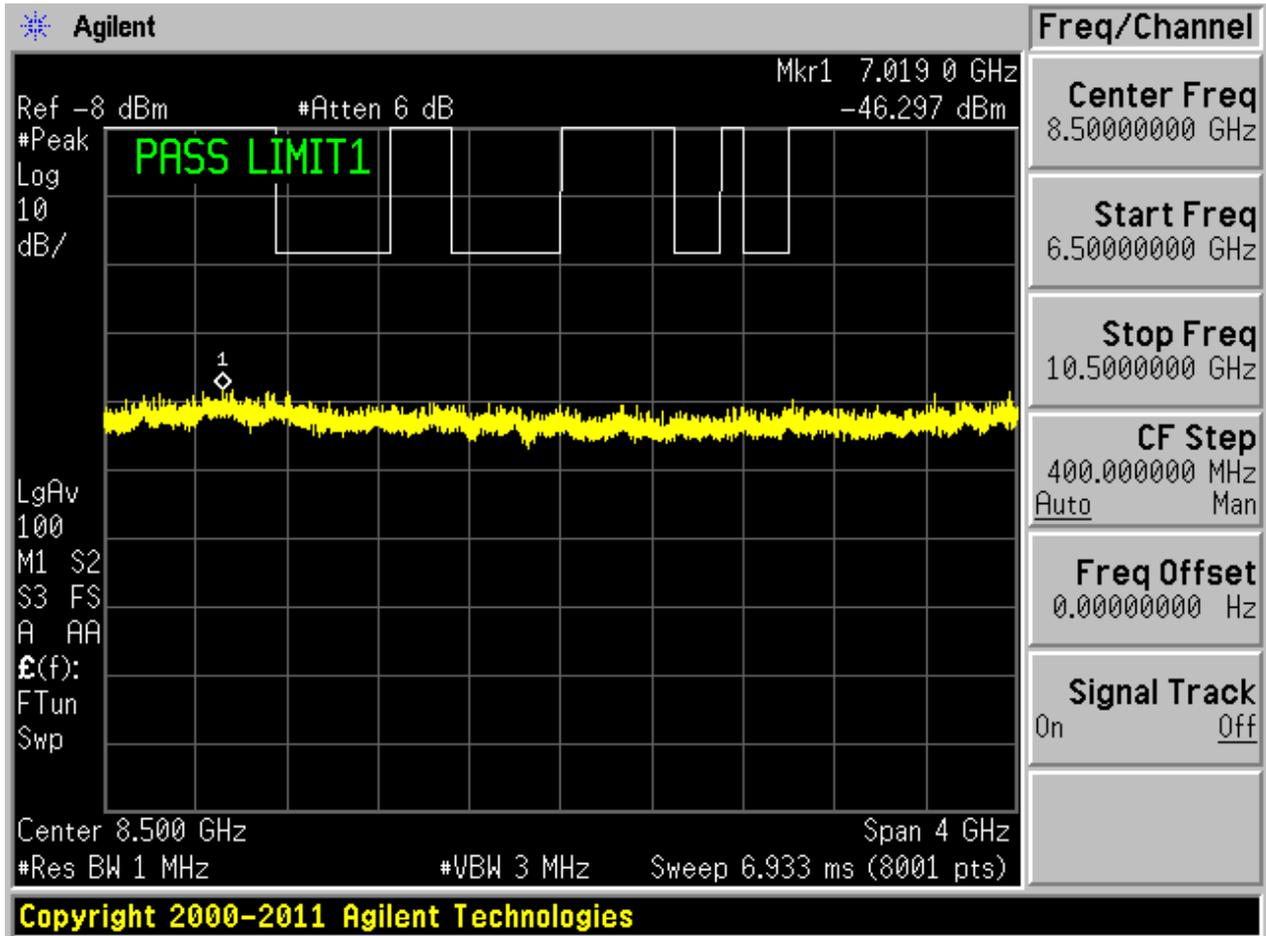


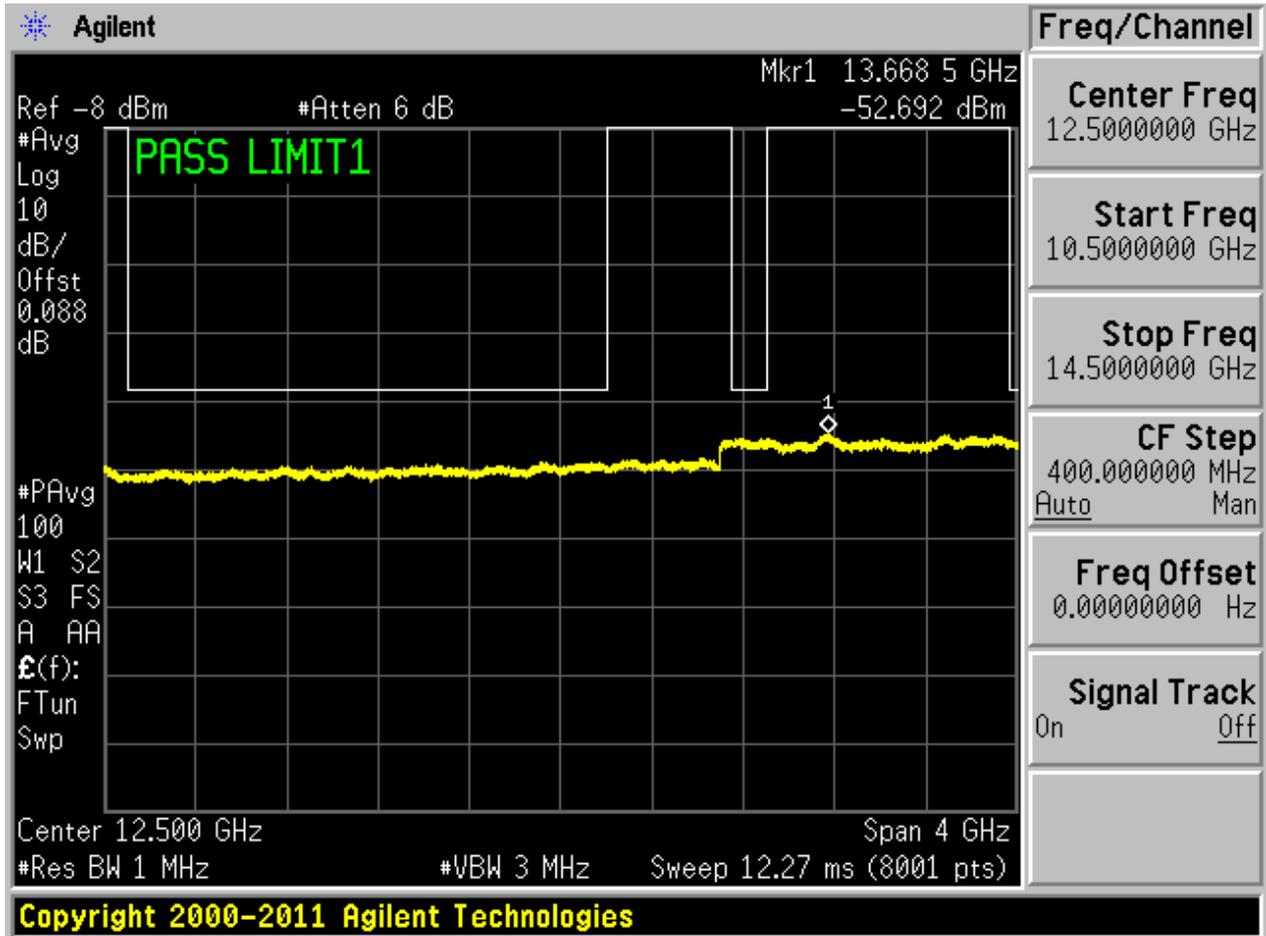


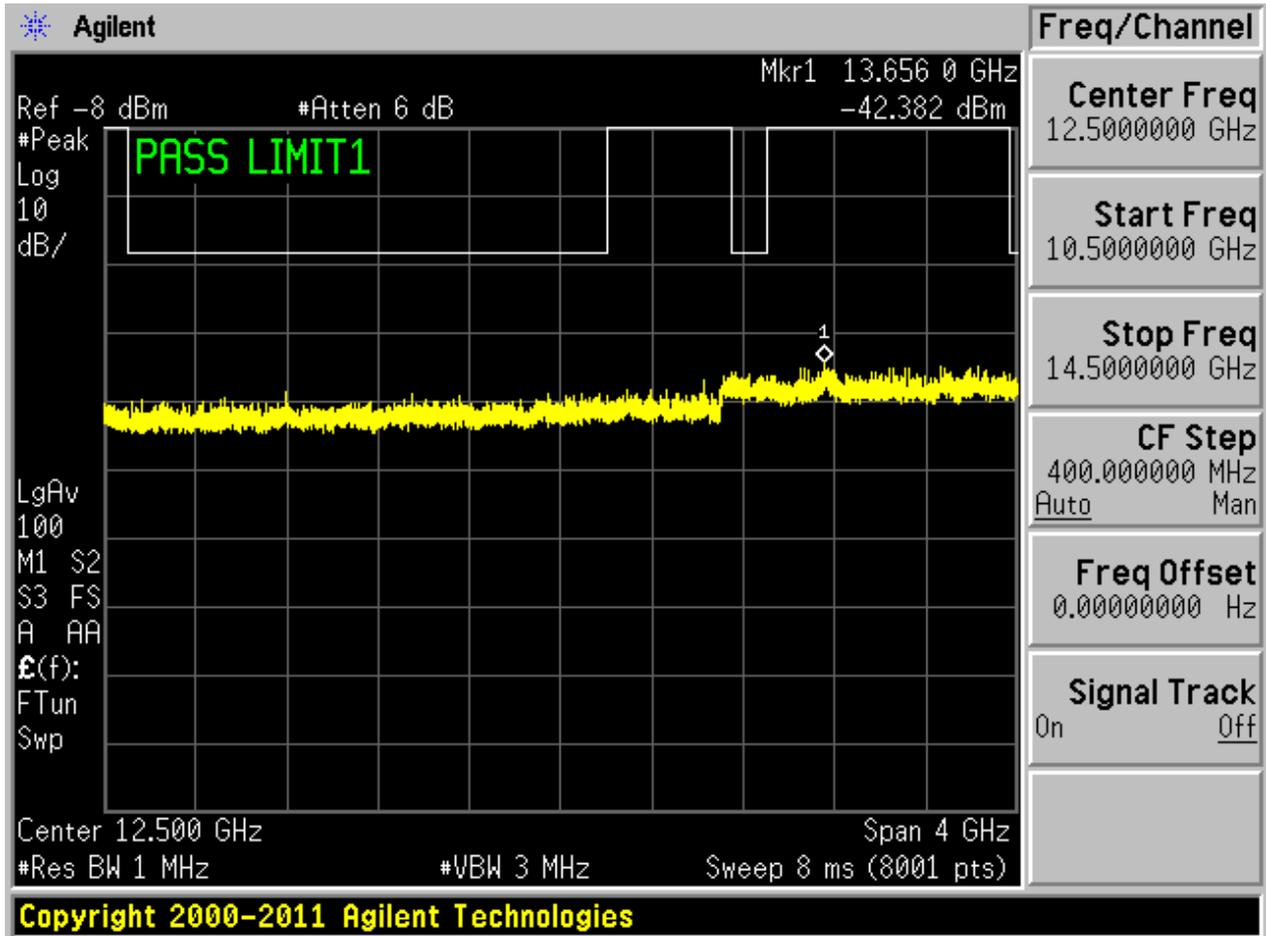


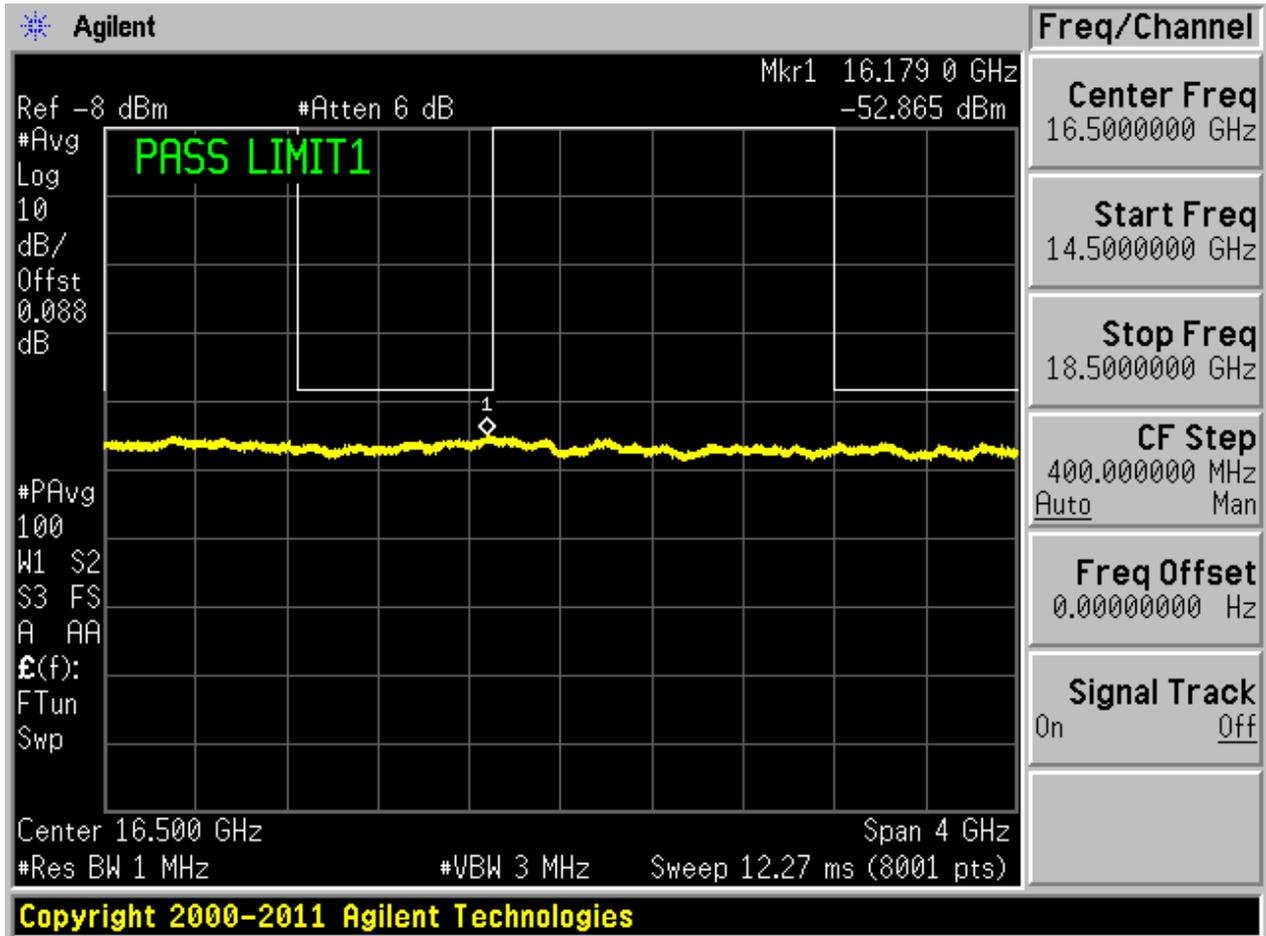


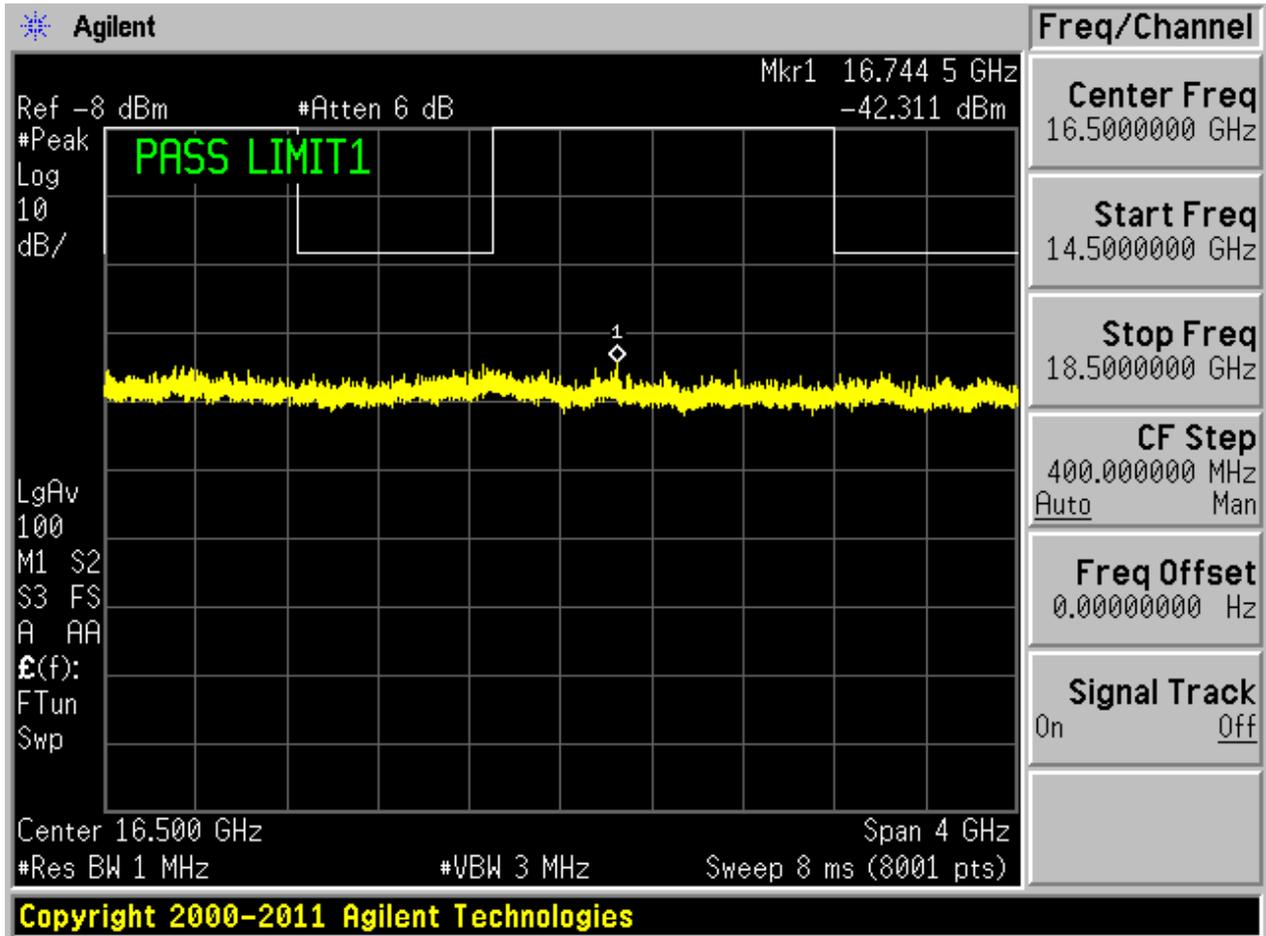


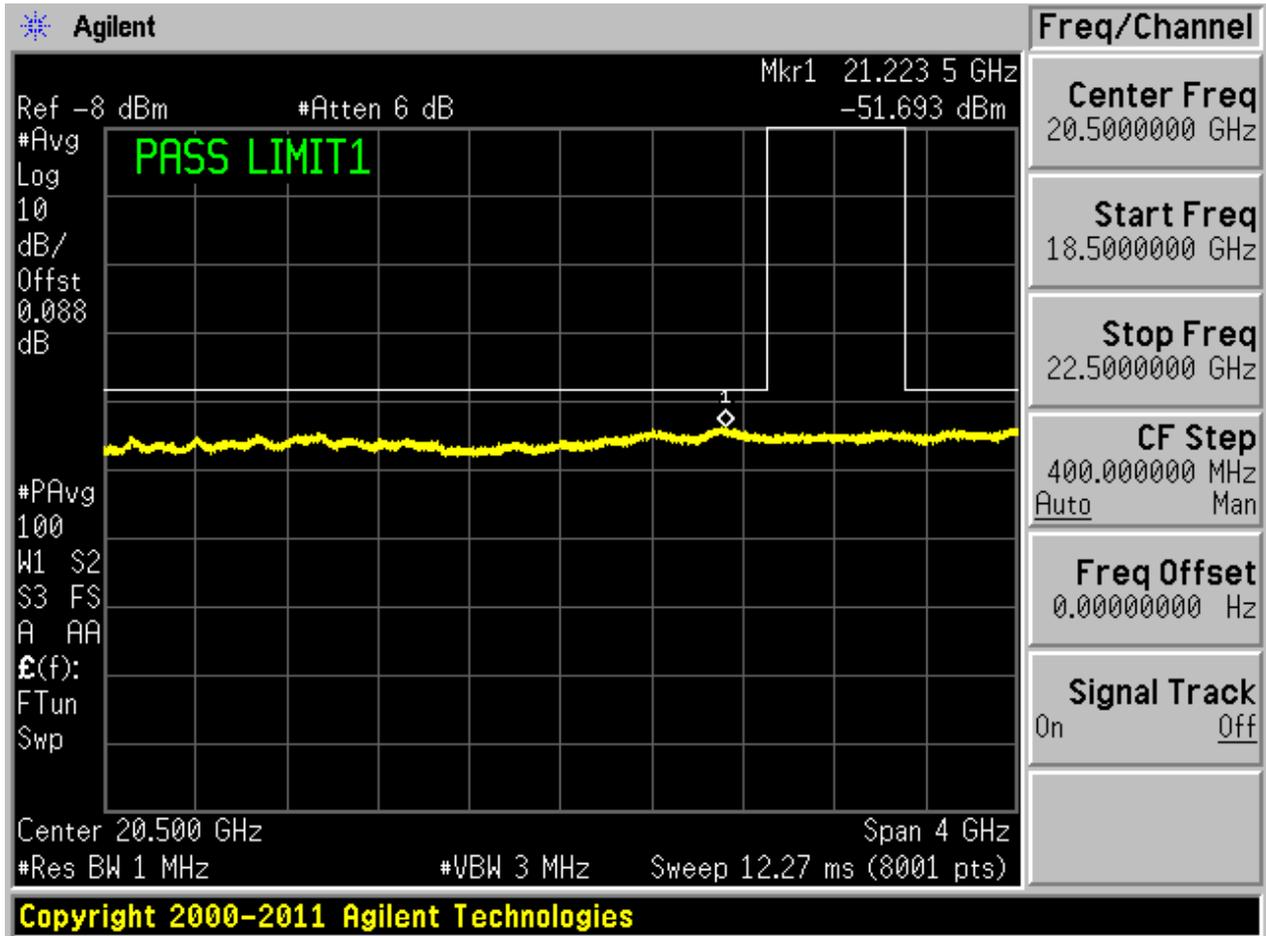


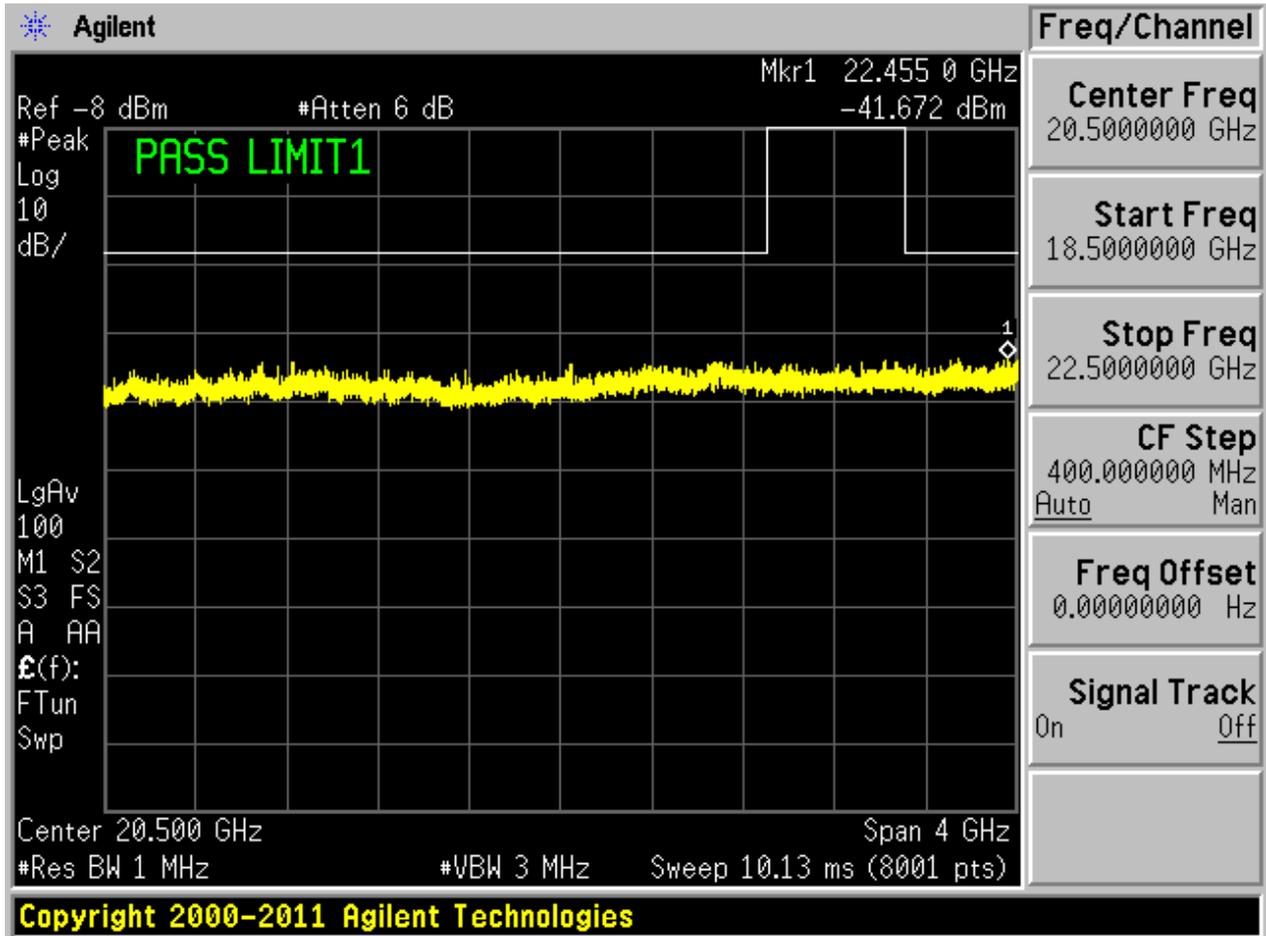


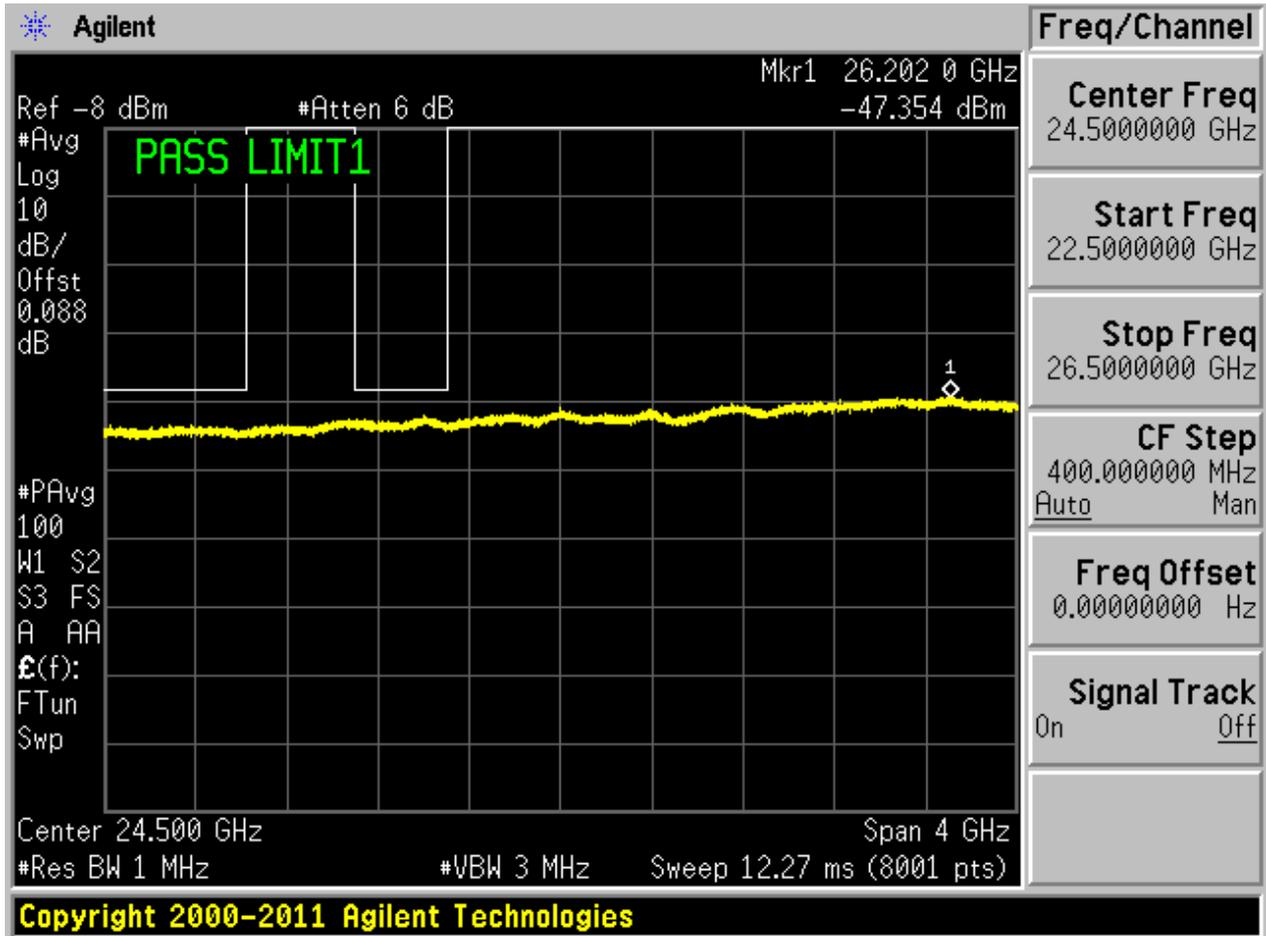


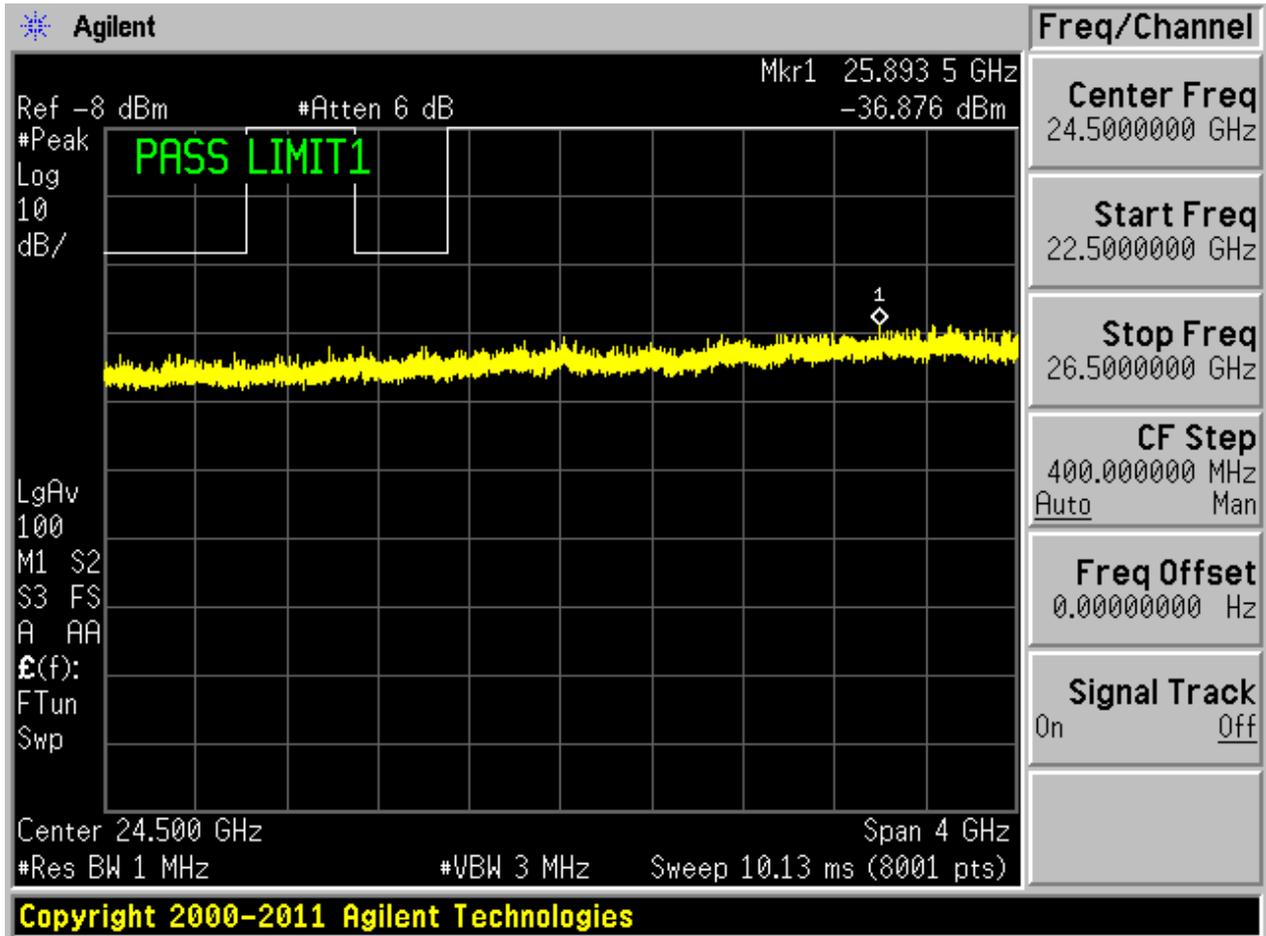










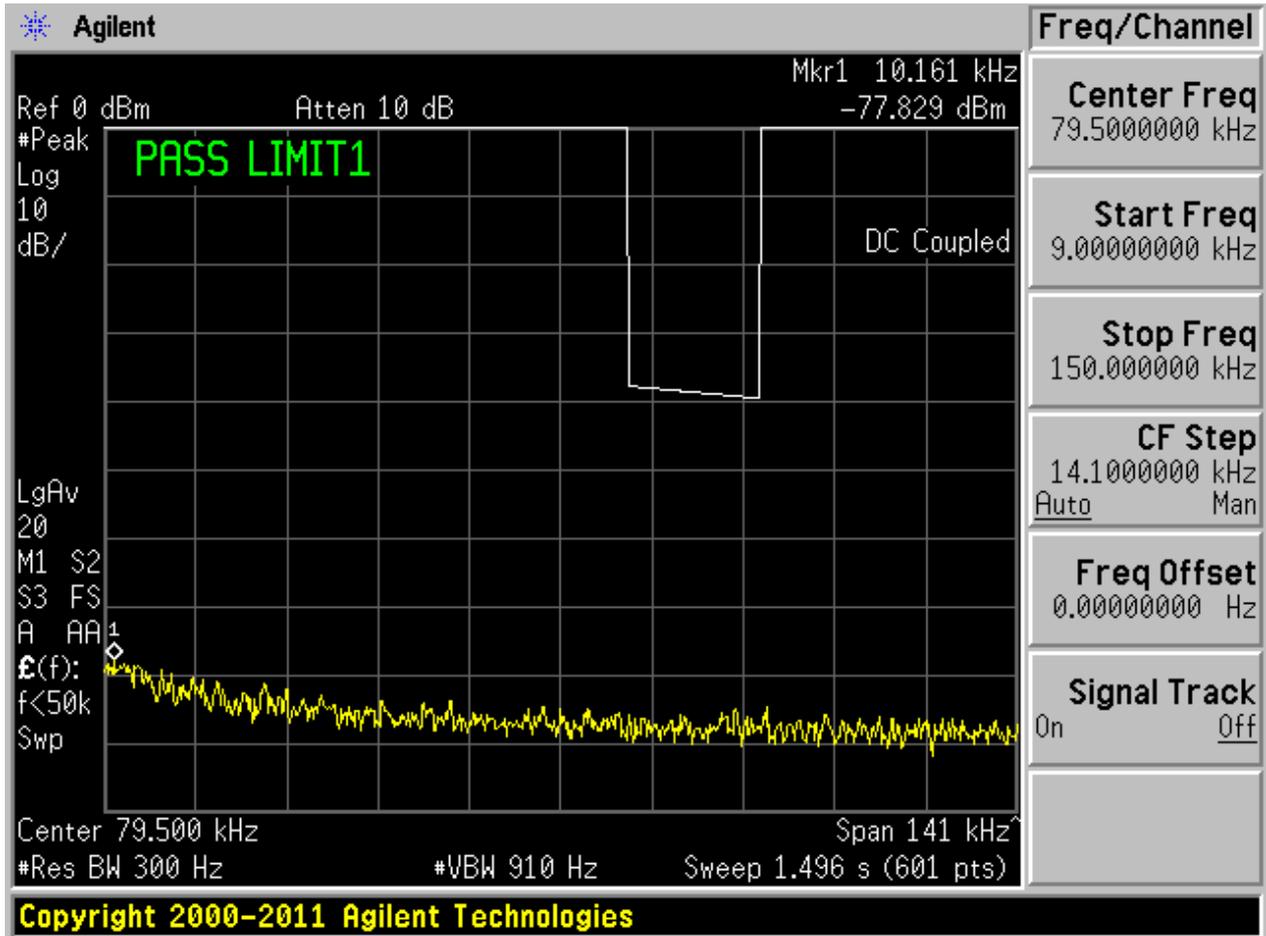


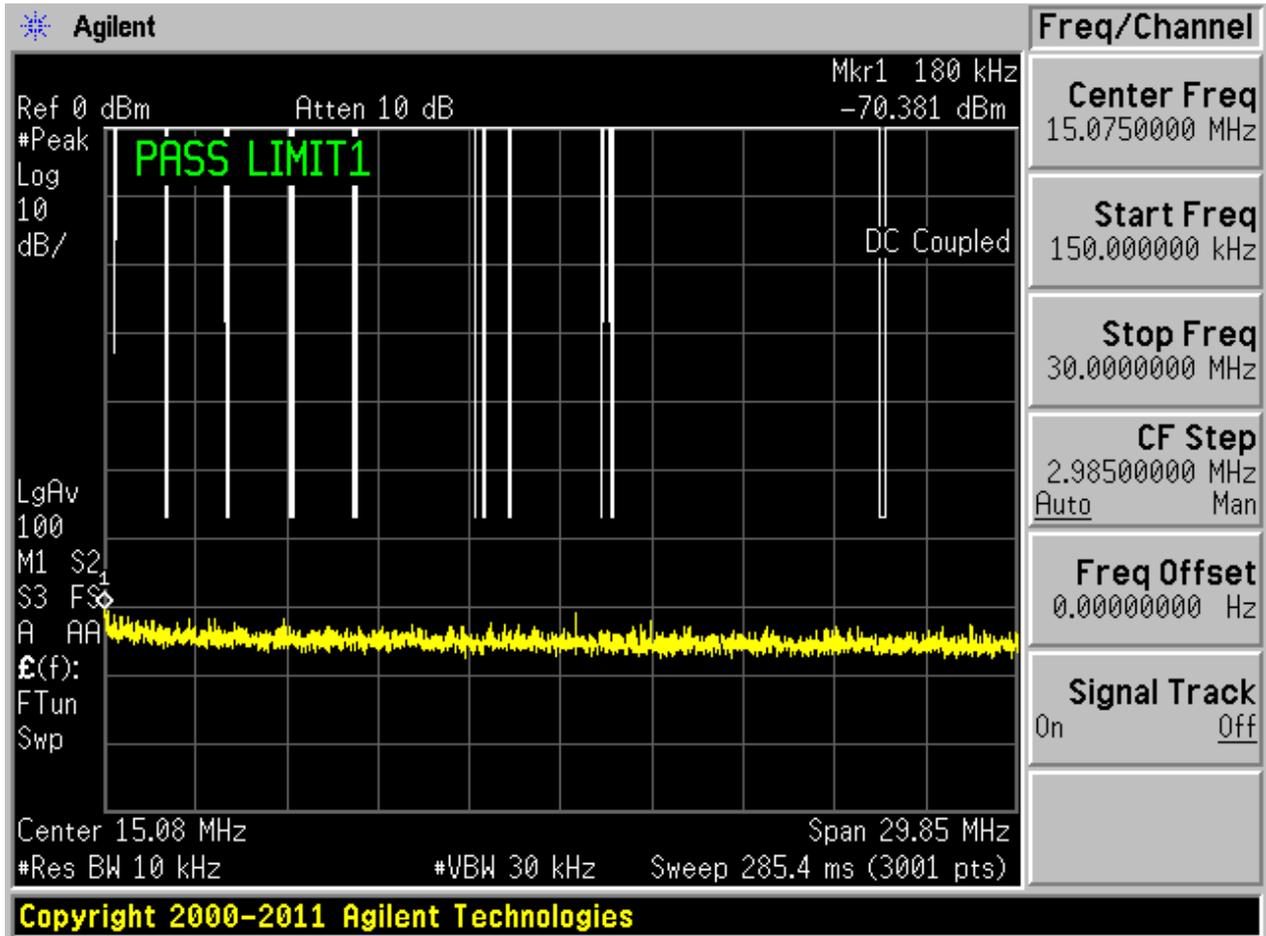
2.20.3 Trace#sum (if needed for final judgment)

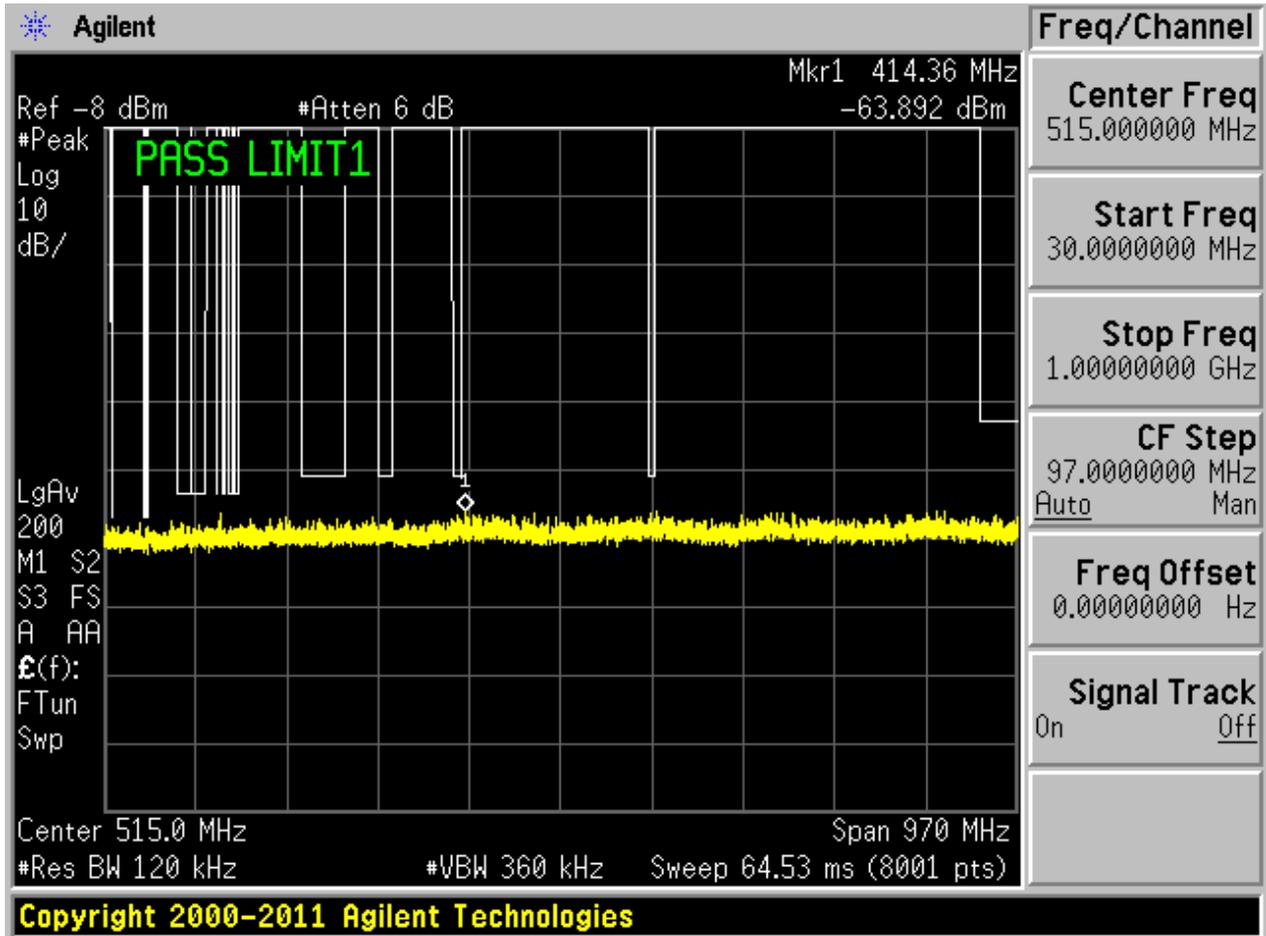
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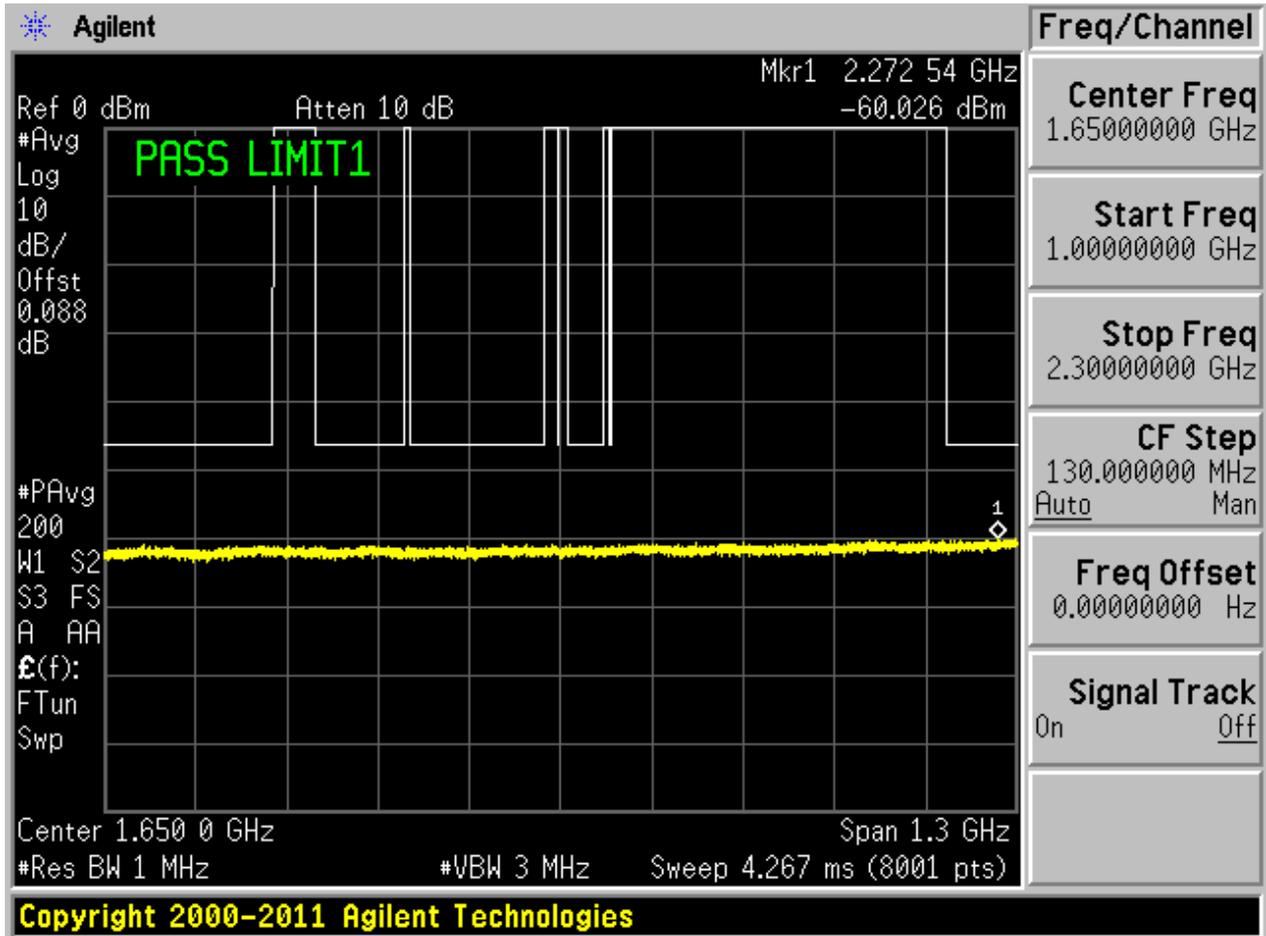
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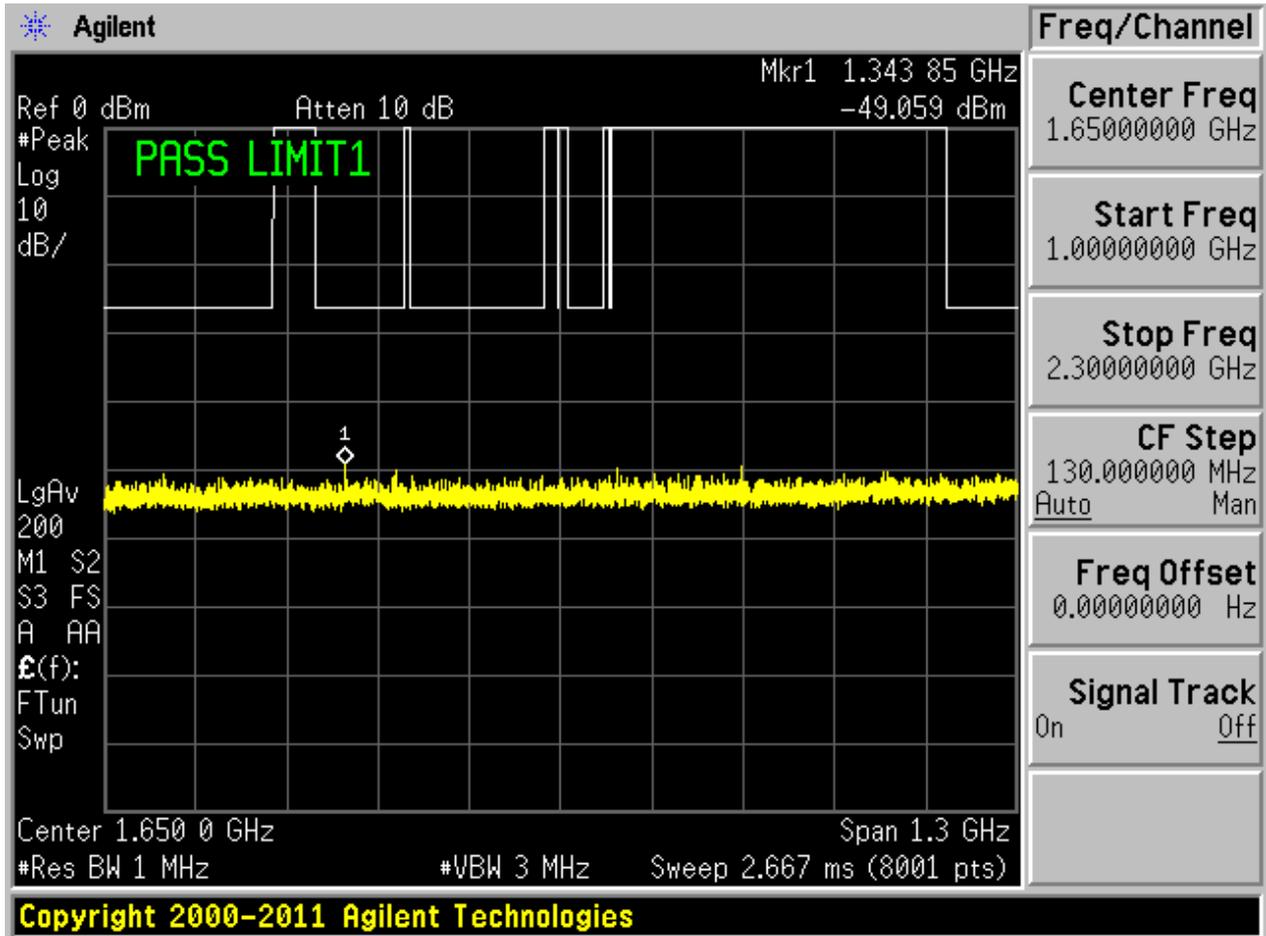
2.21.1 Ant 1 (Trace#1)

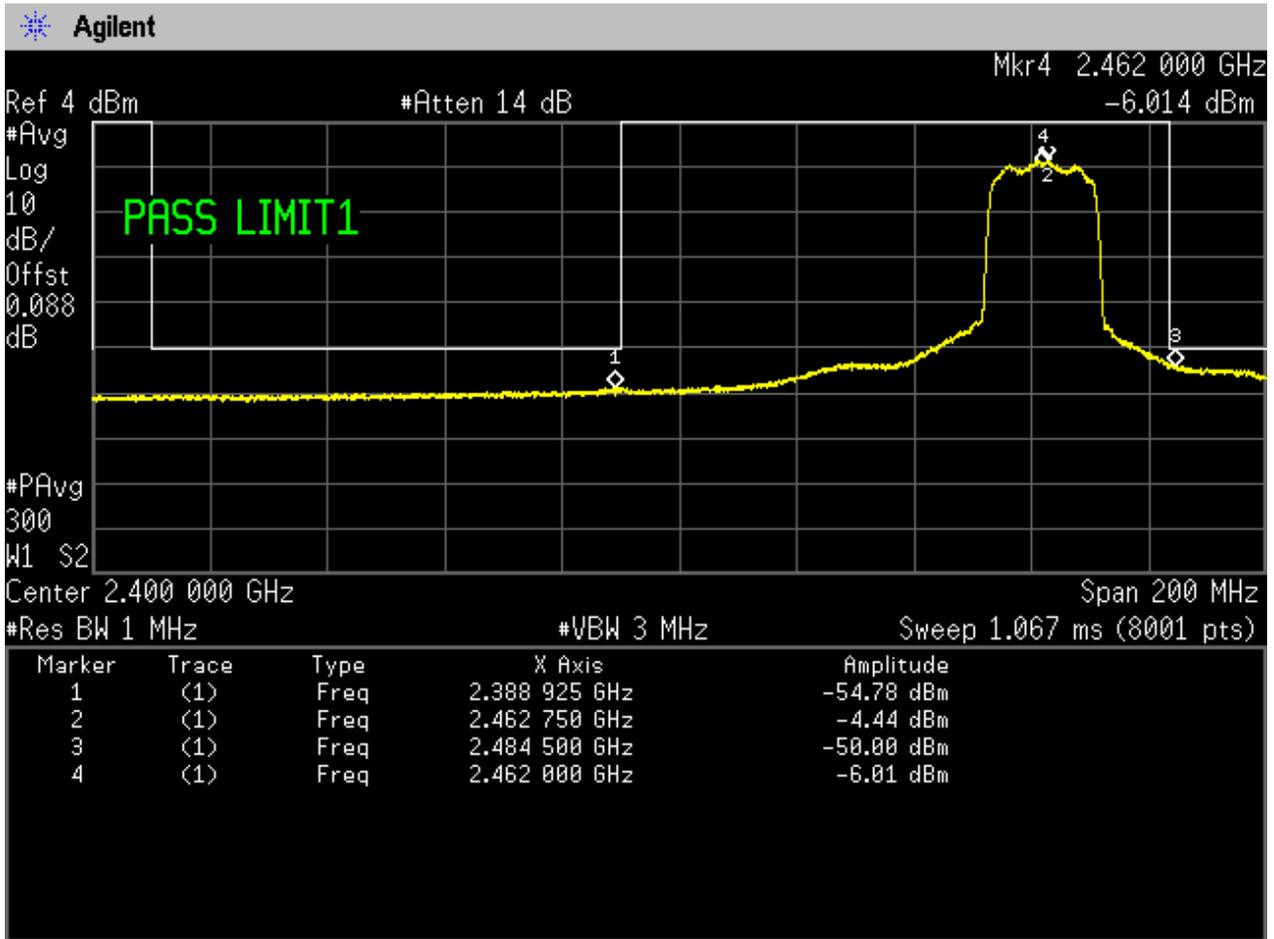


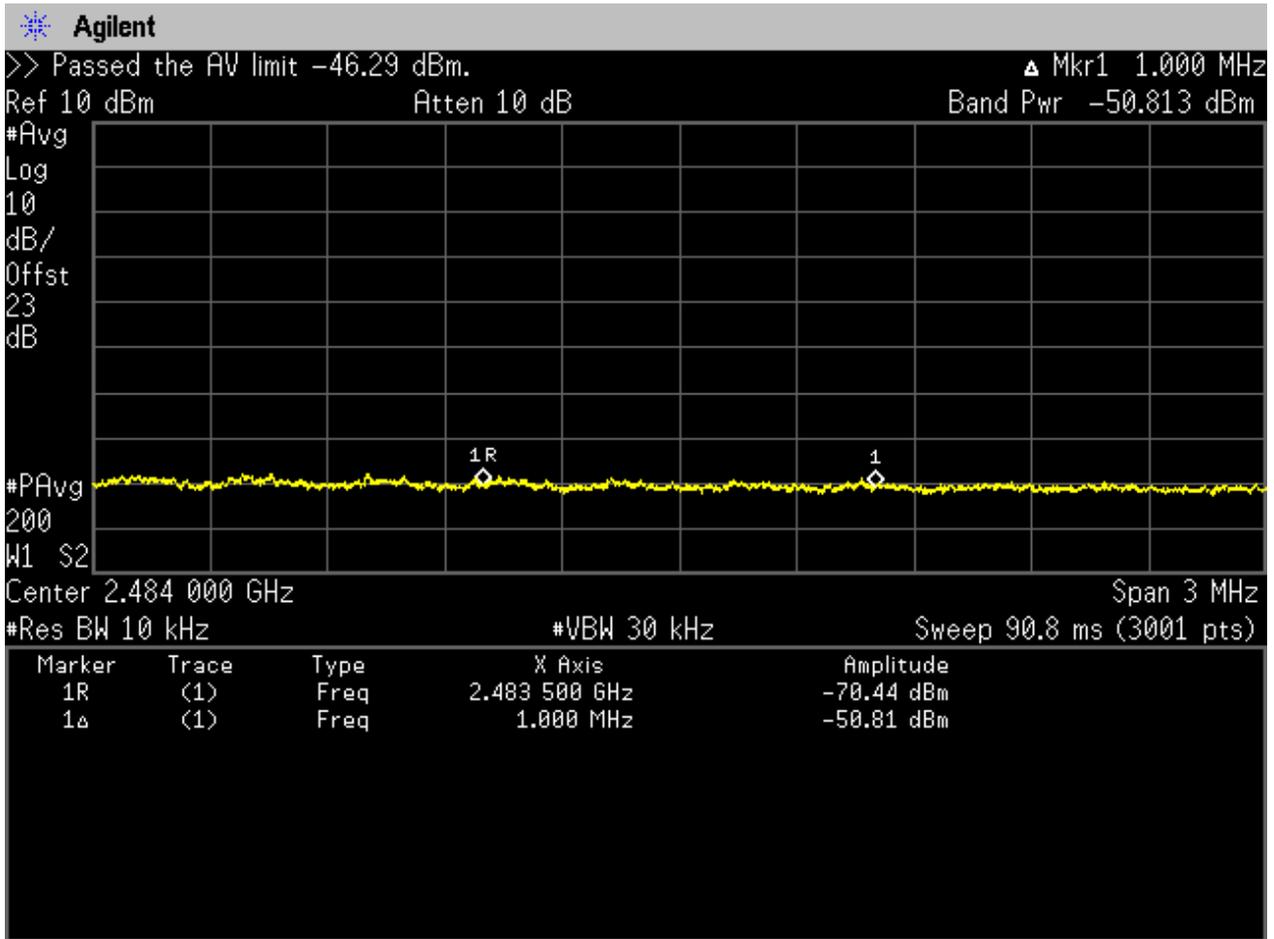


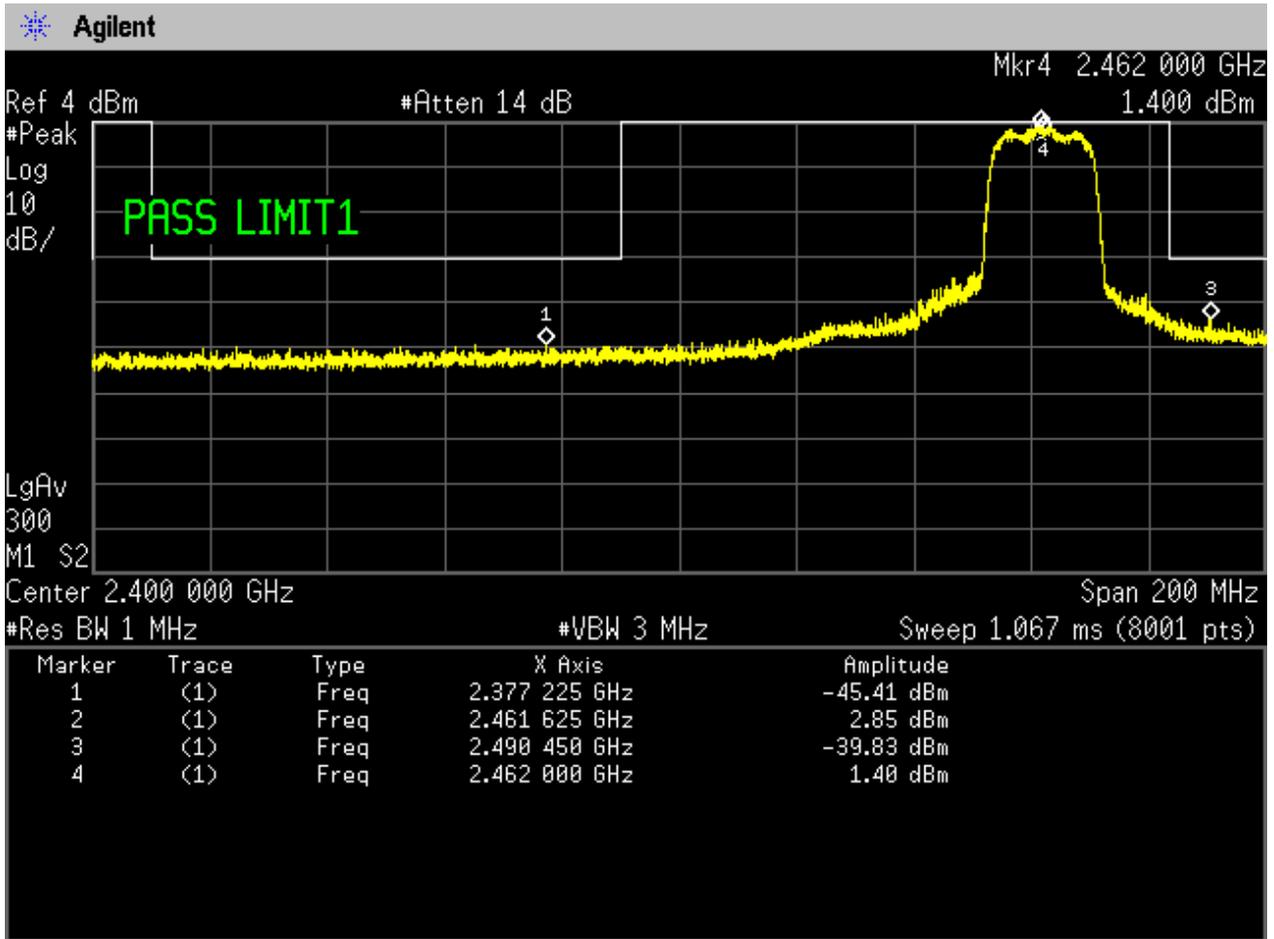


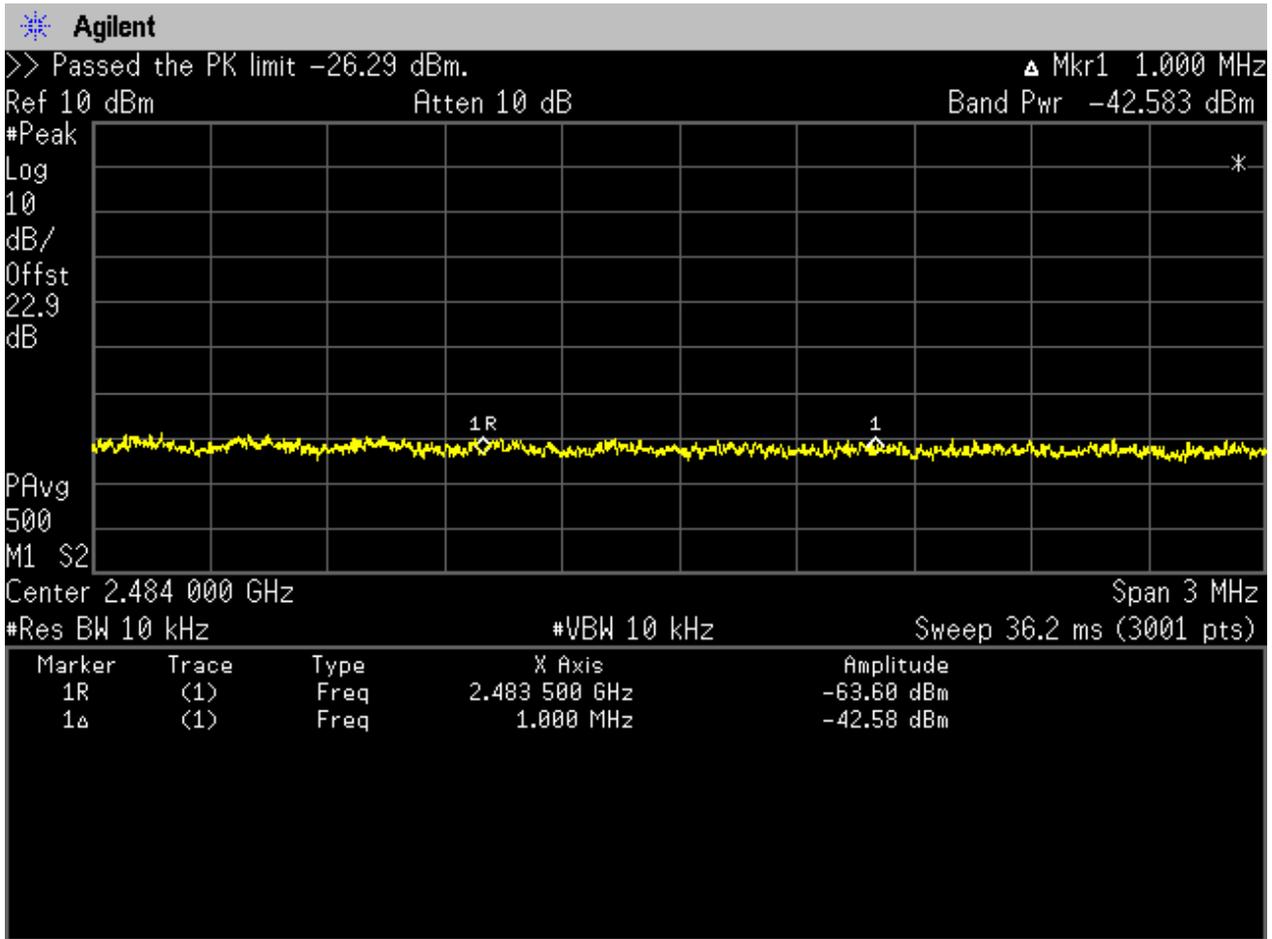


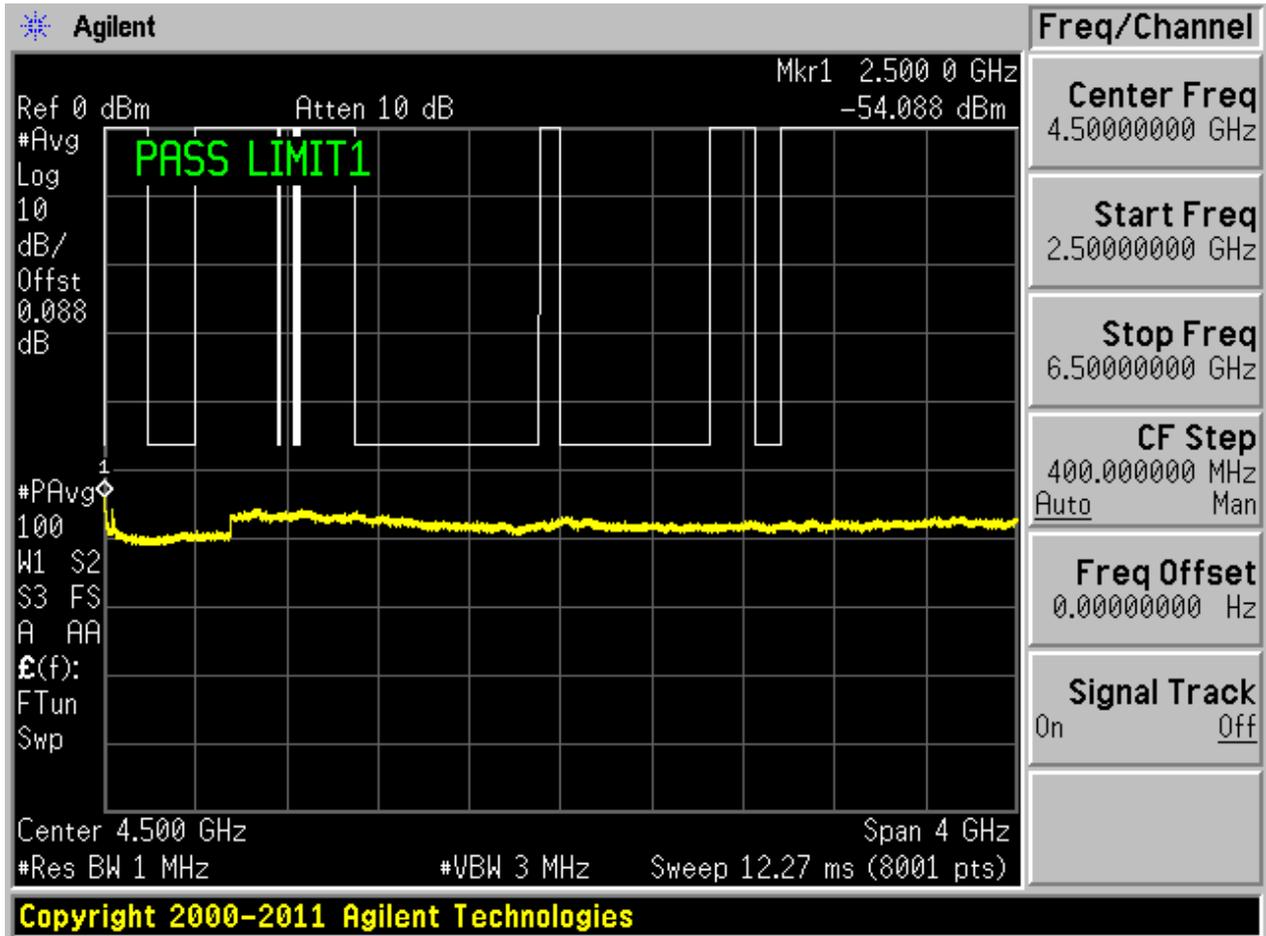


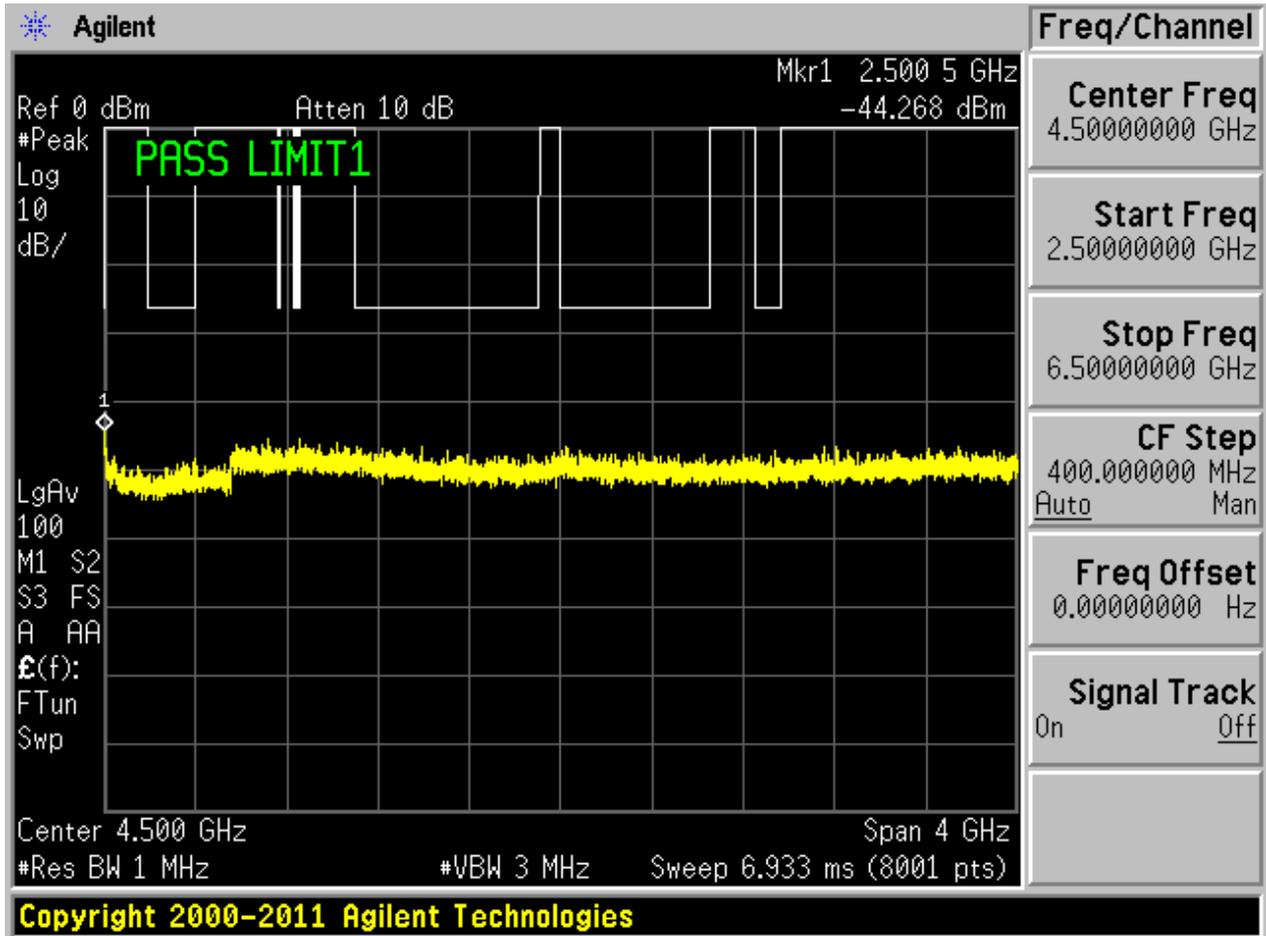


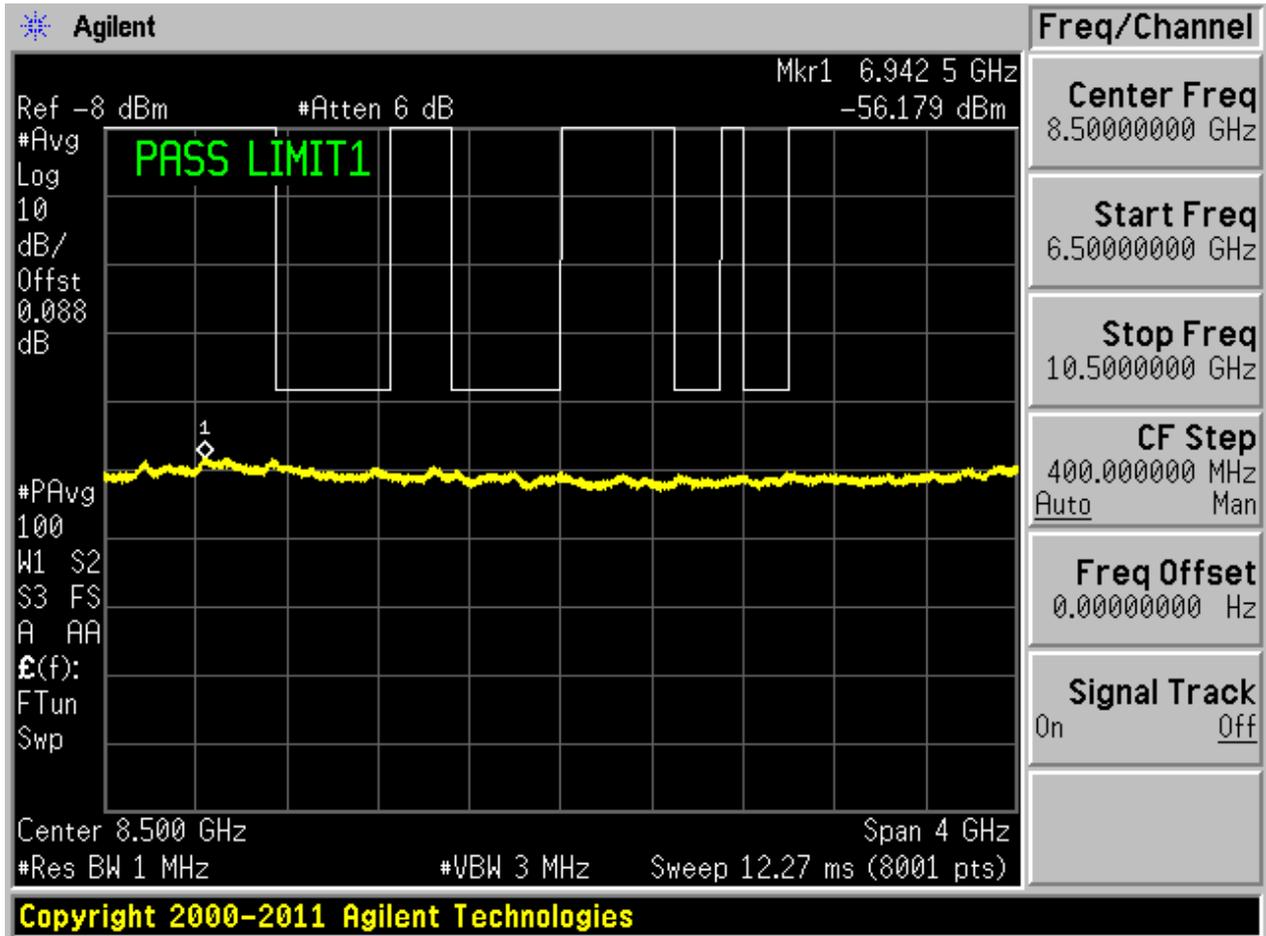


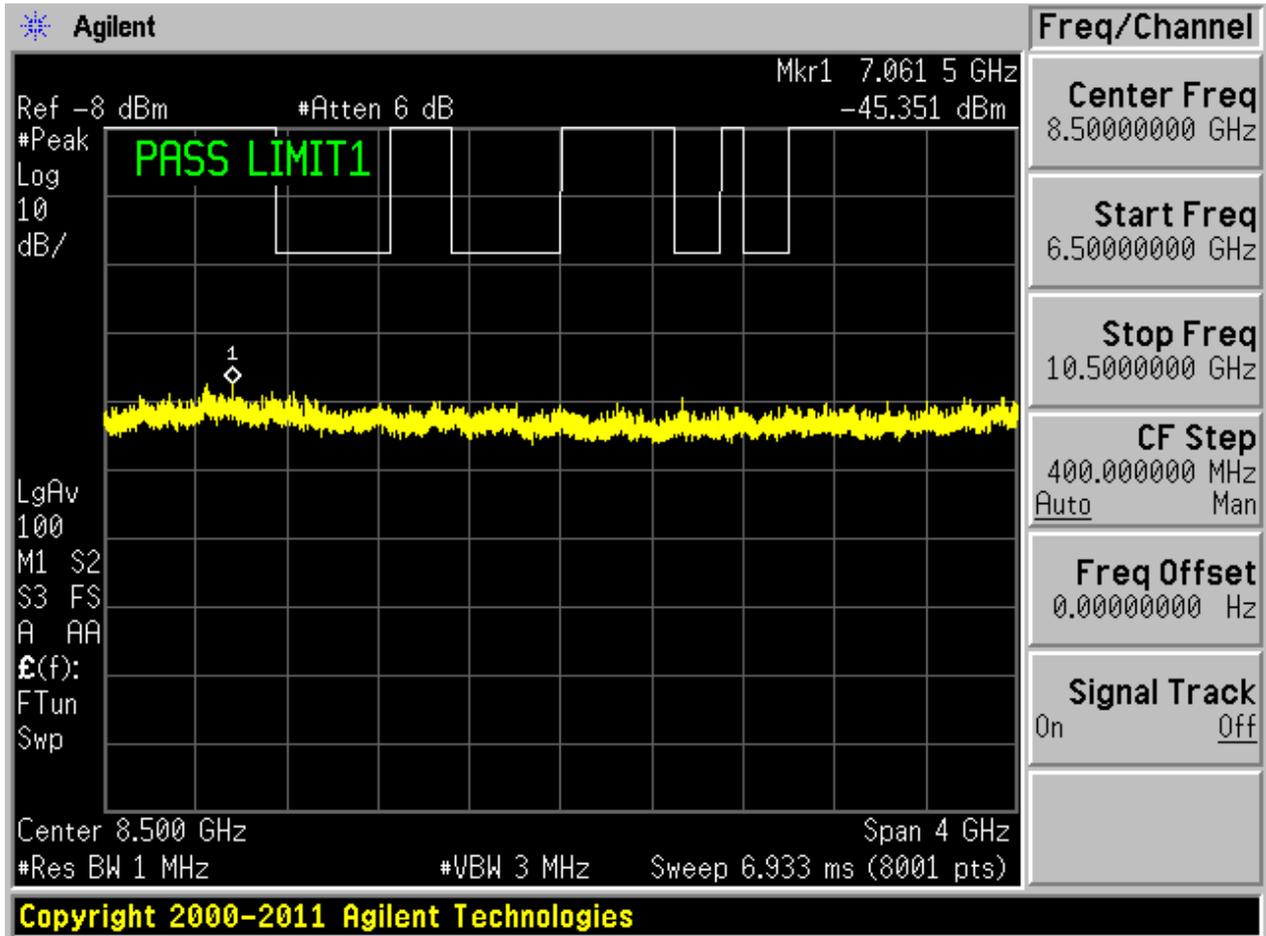




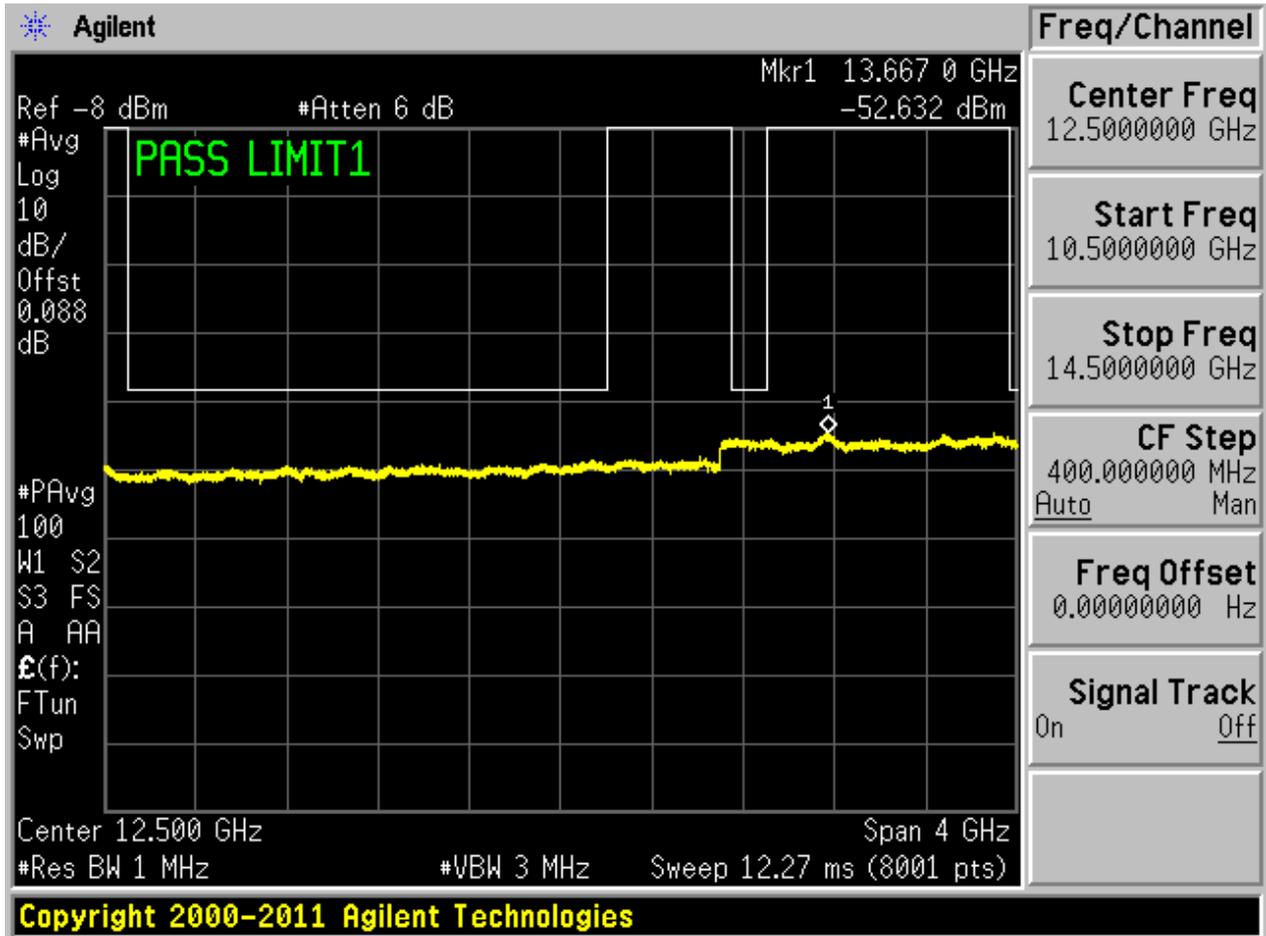


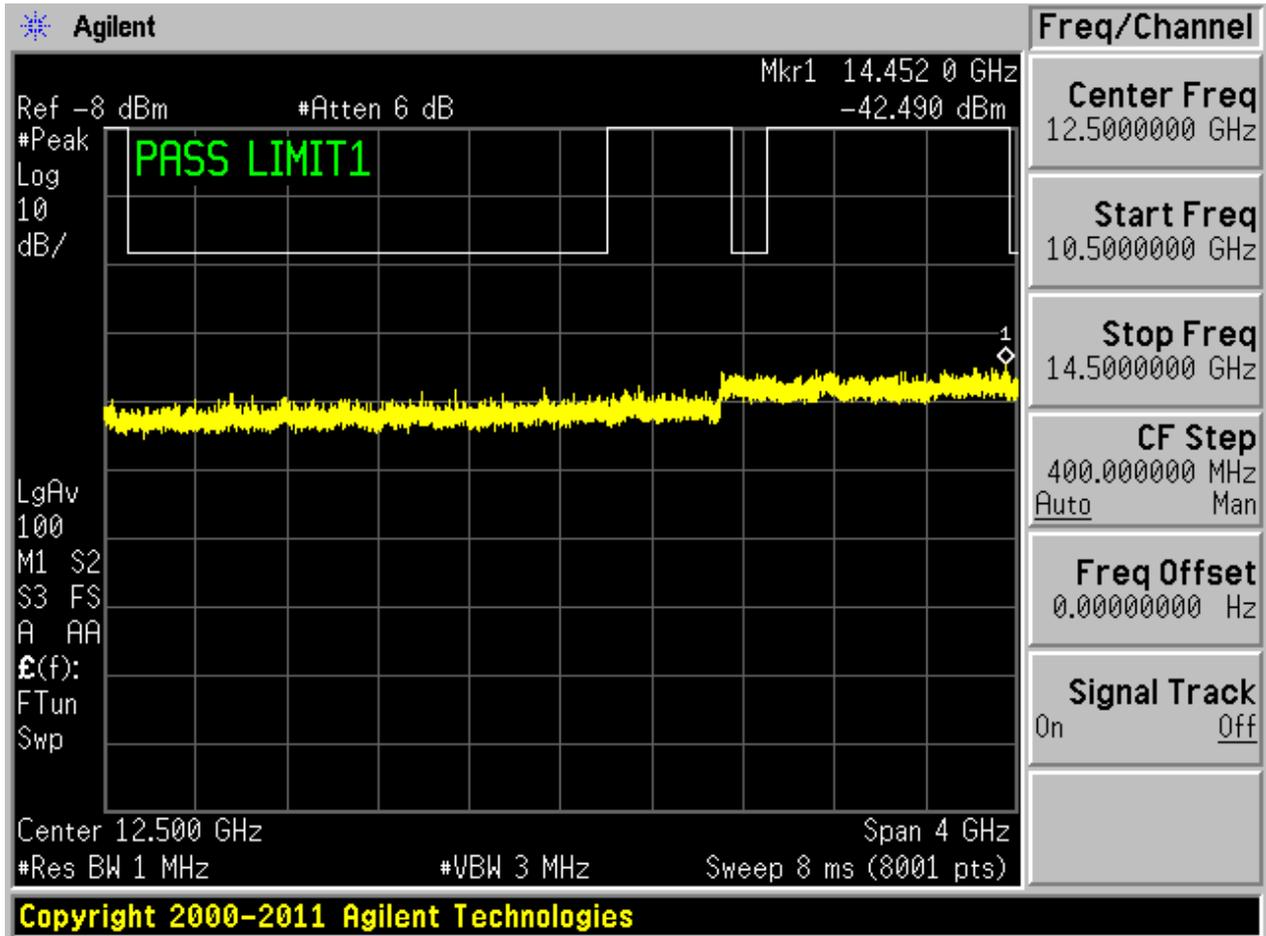


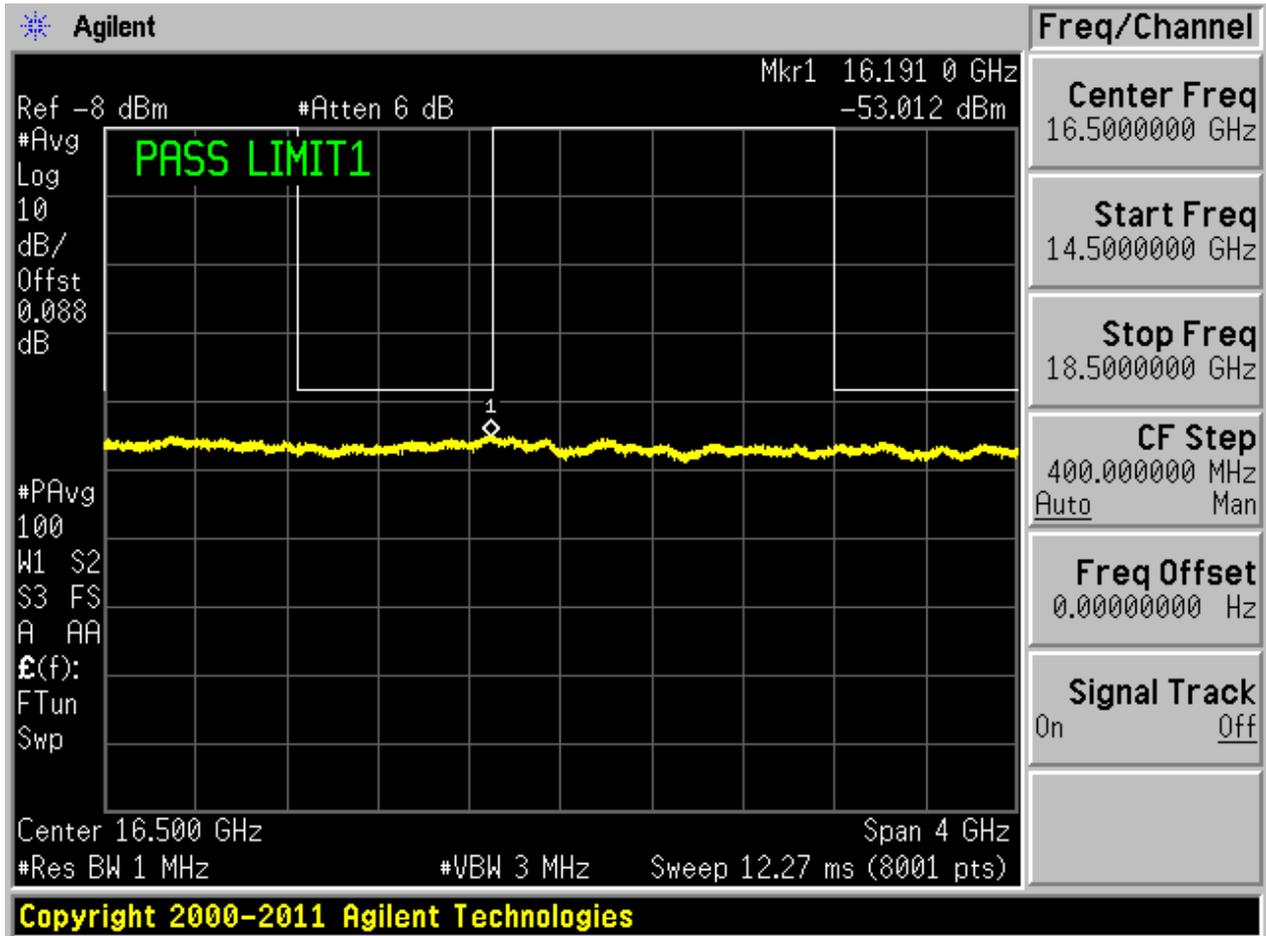


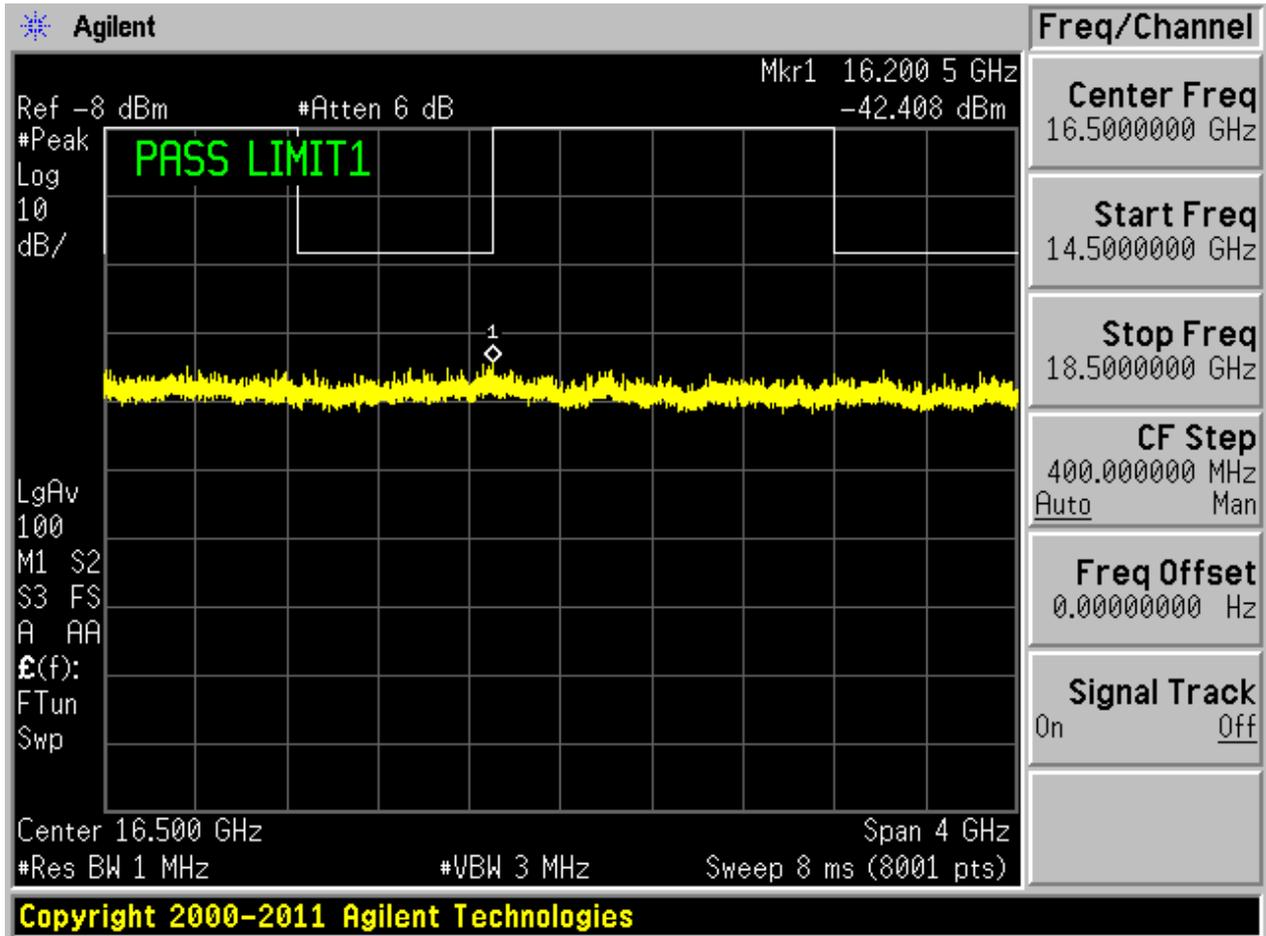


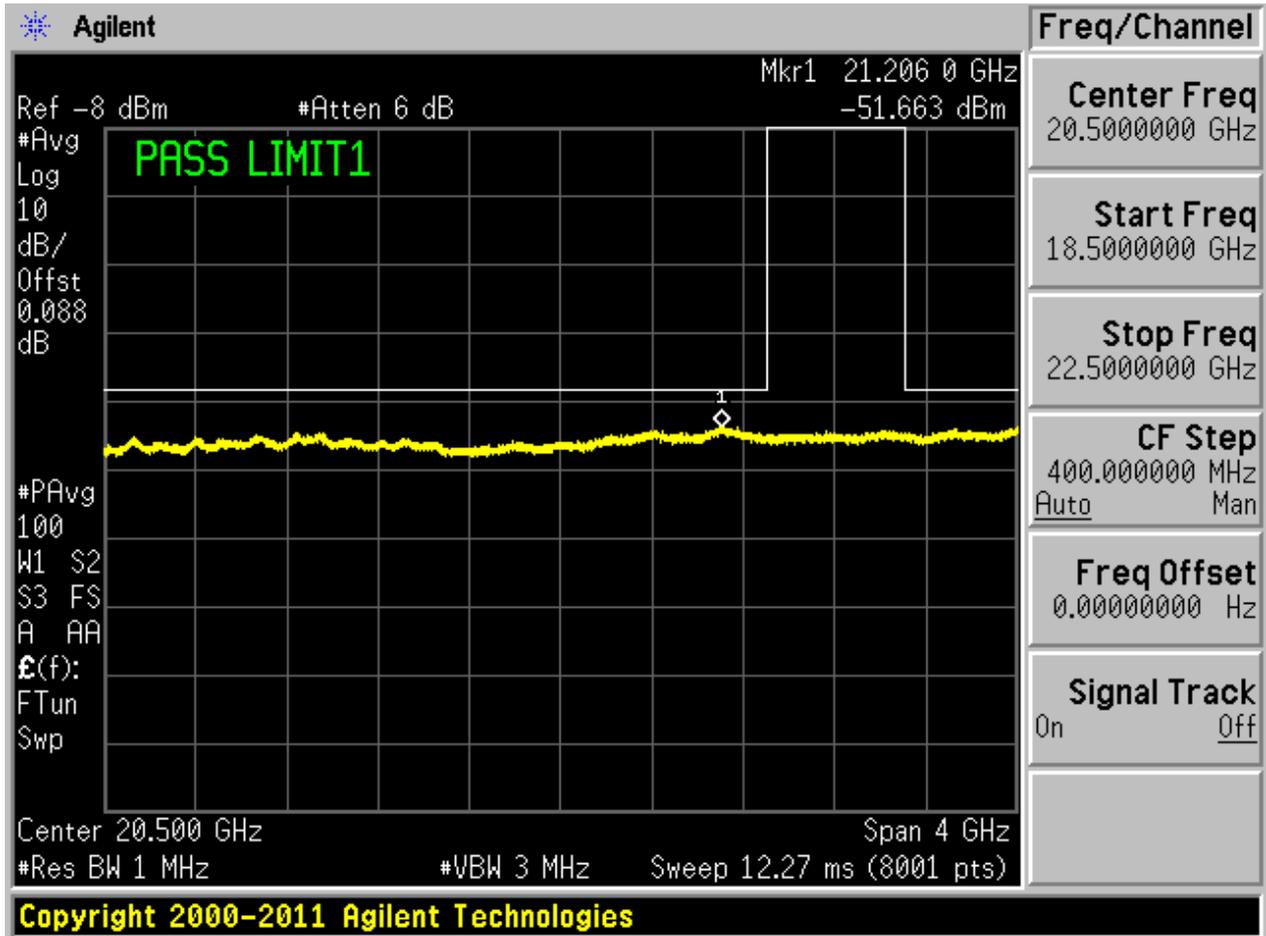
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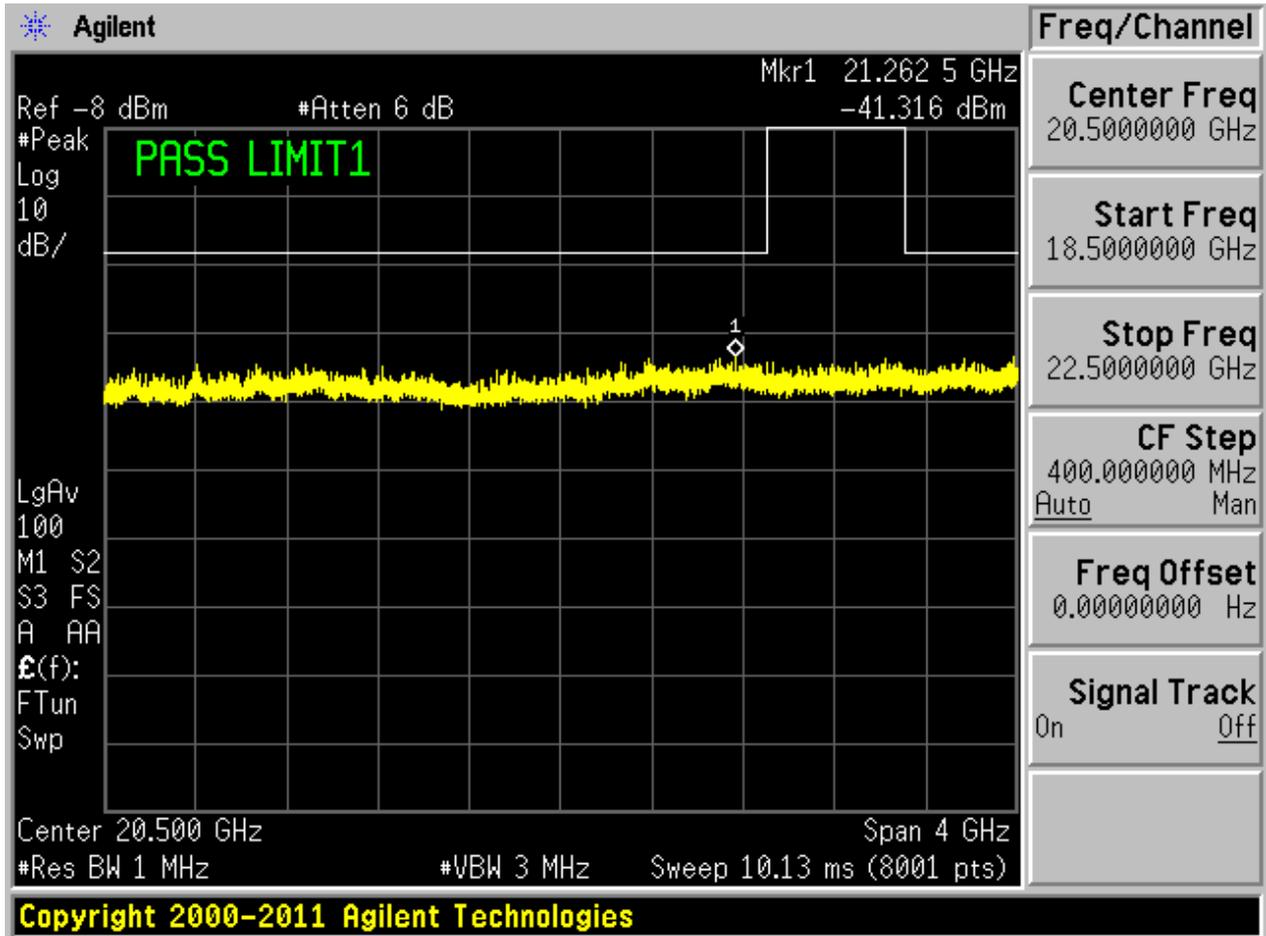


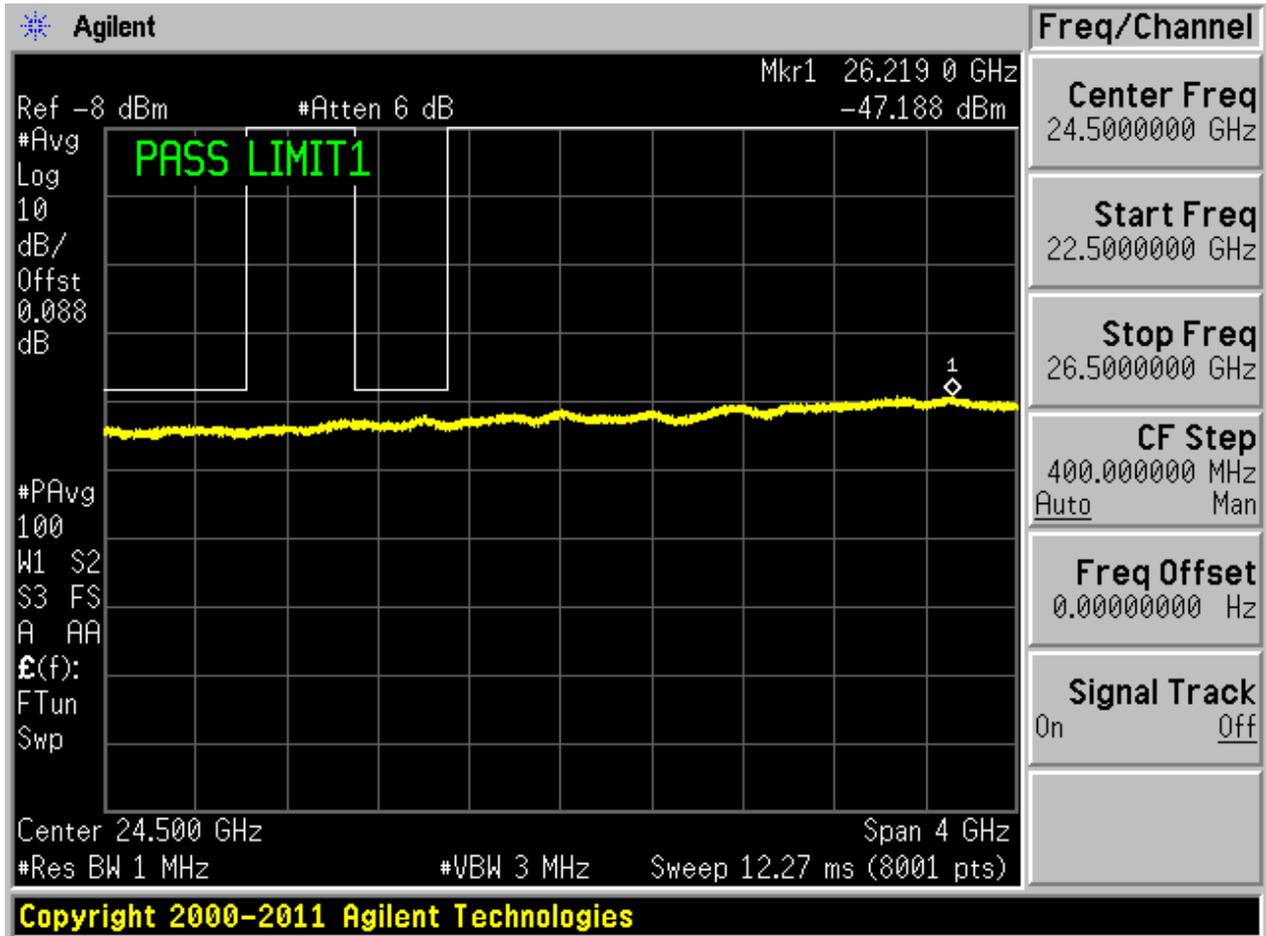


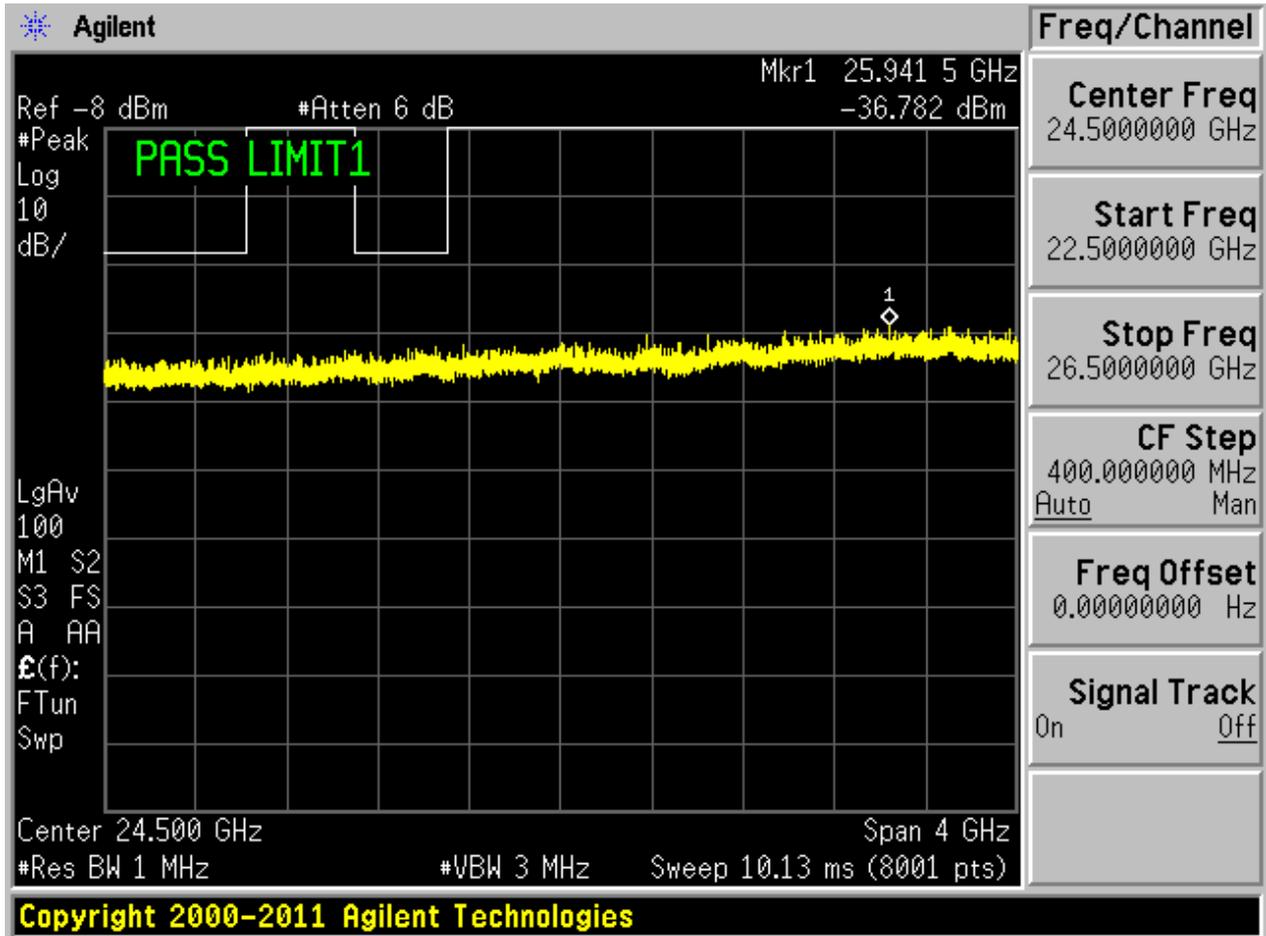




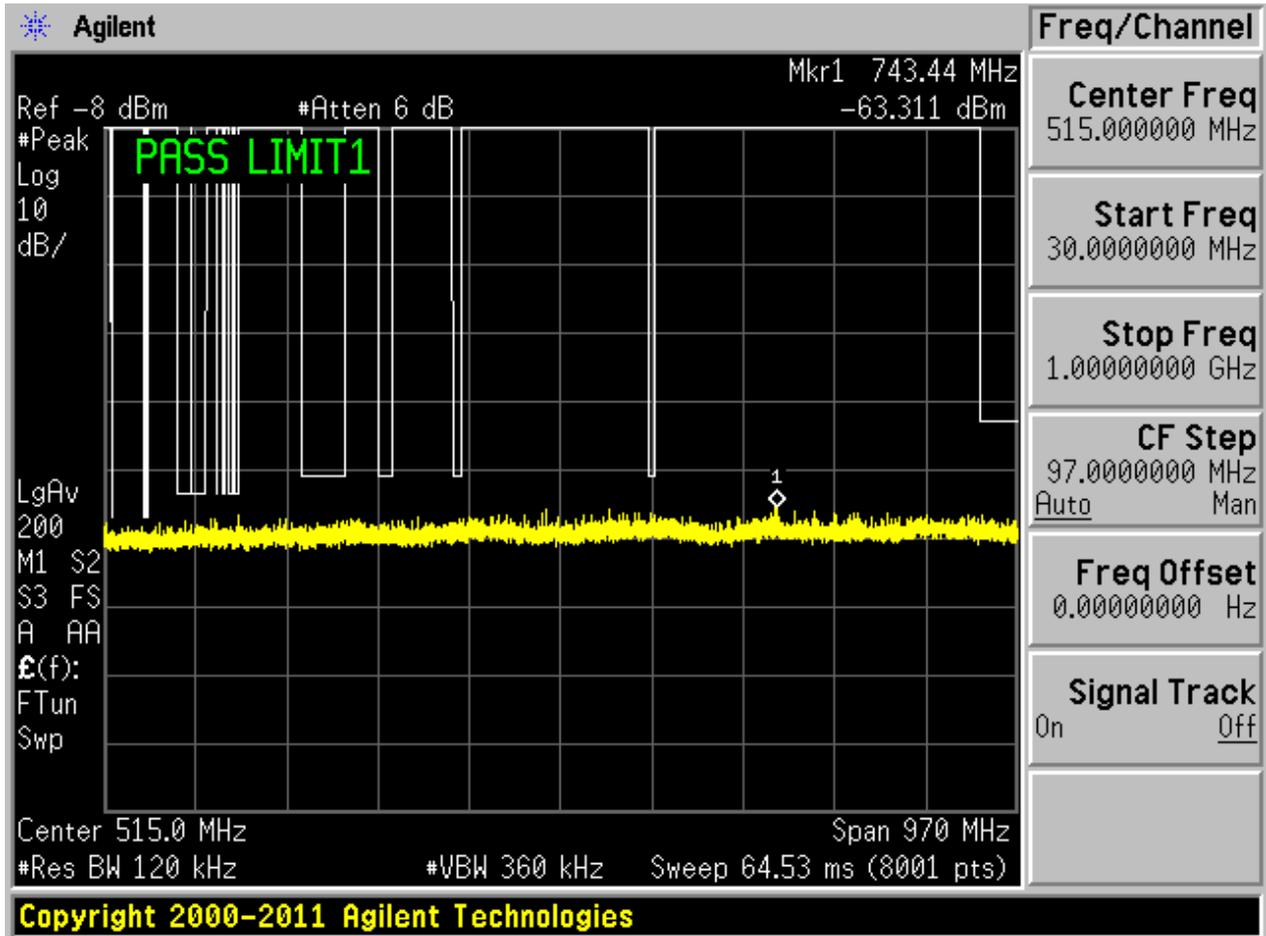


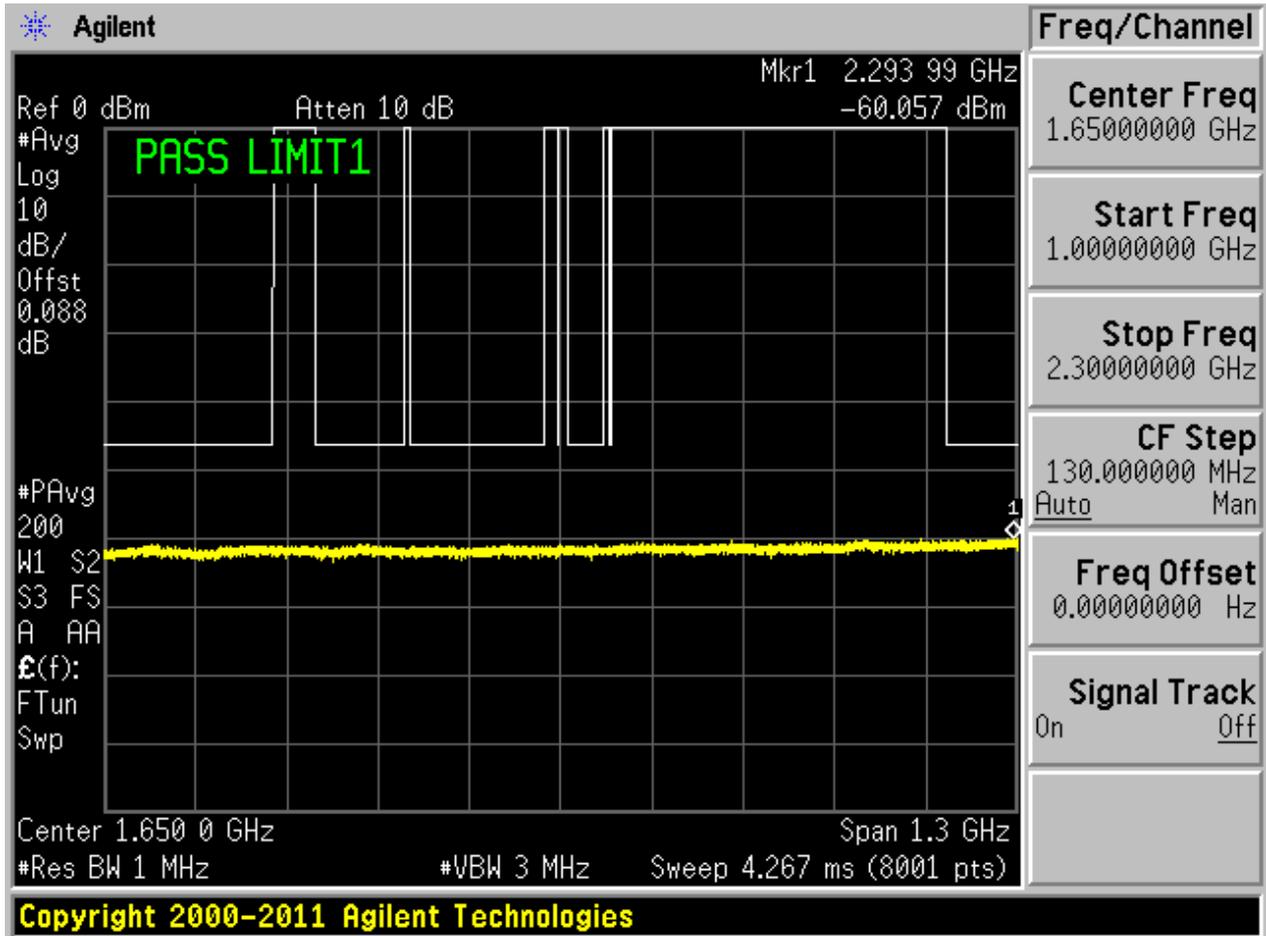


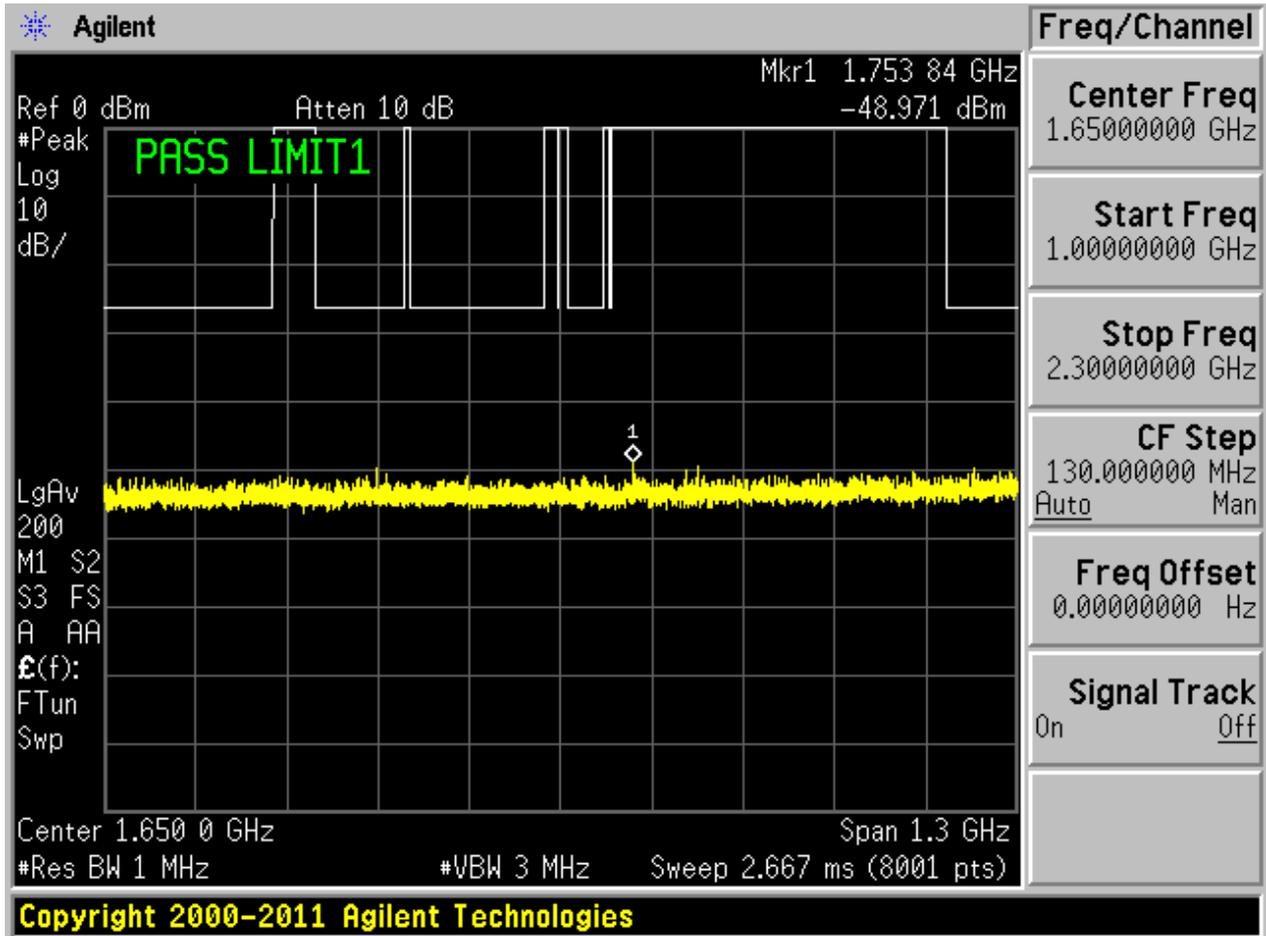


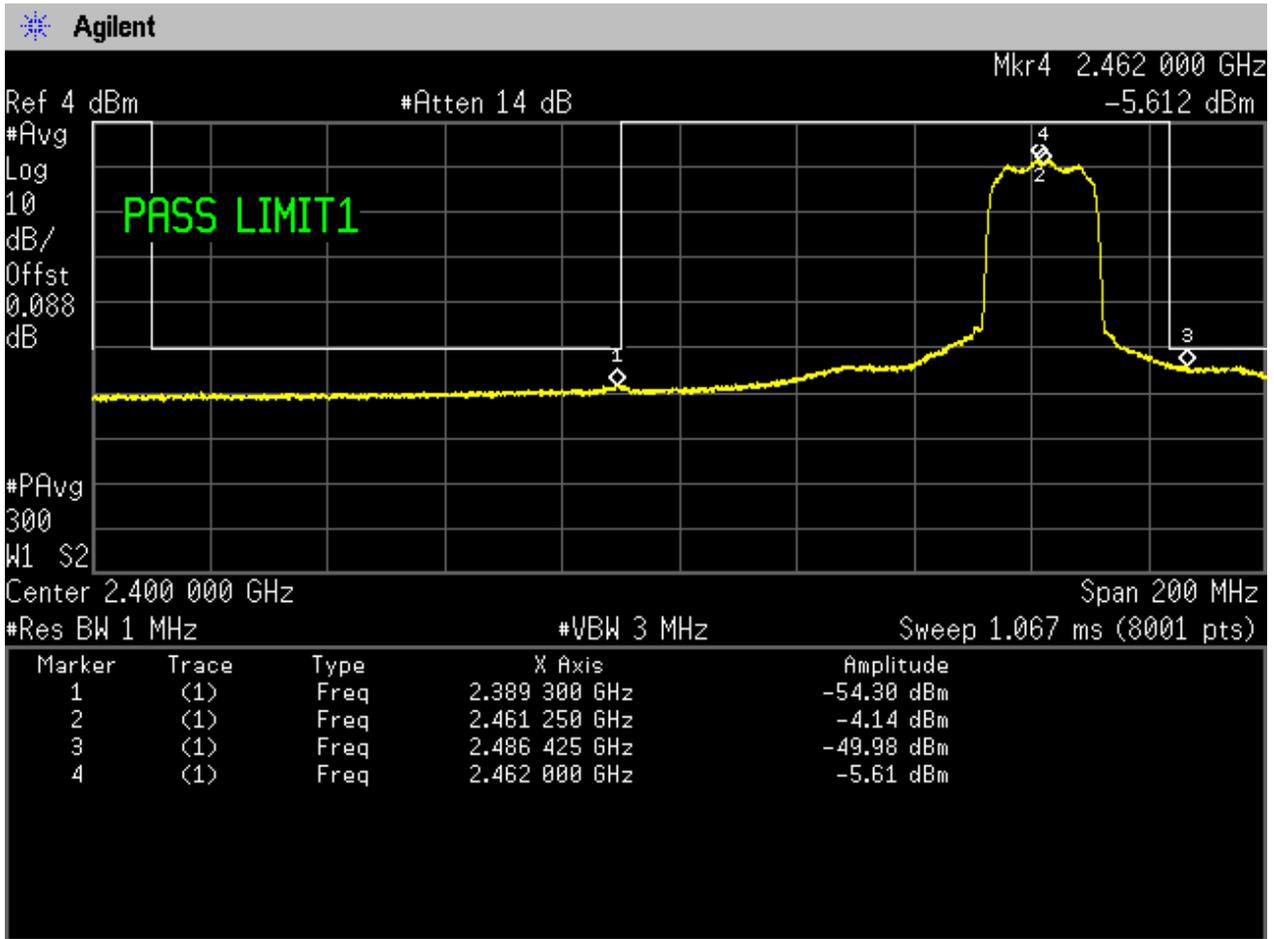


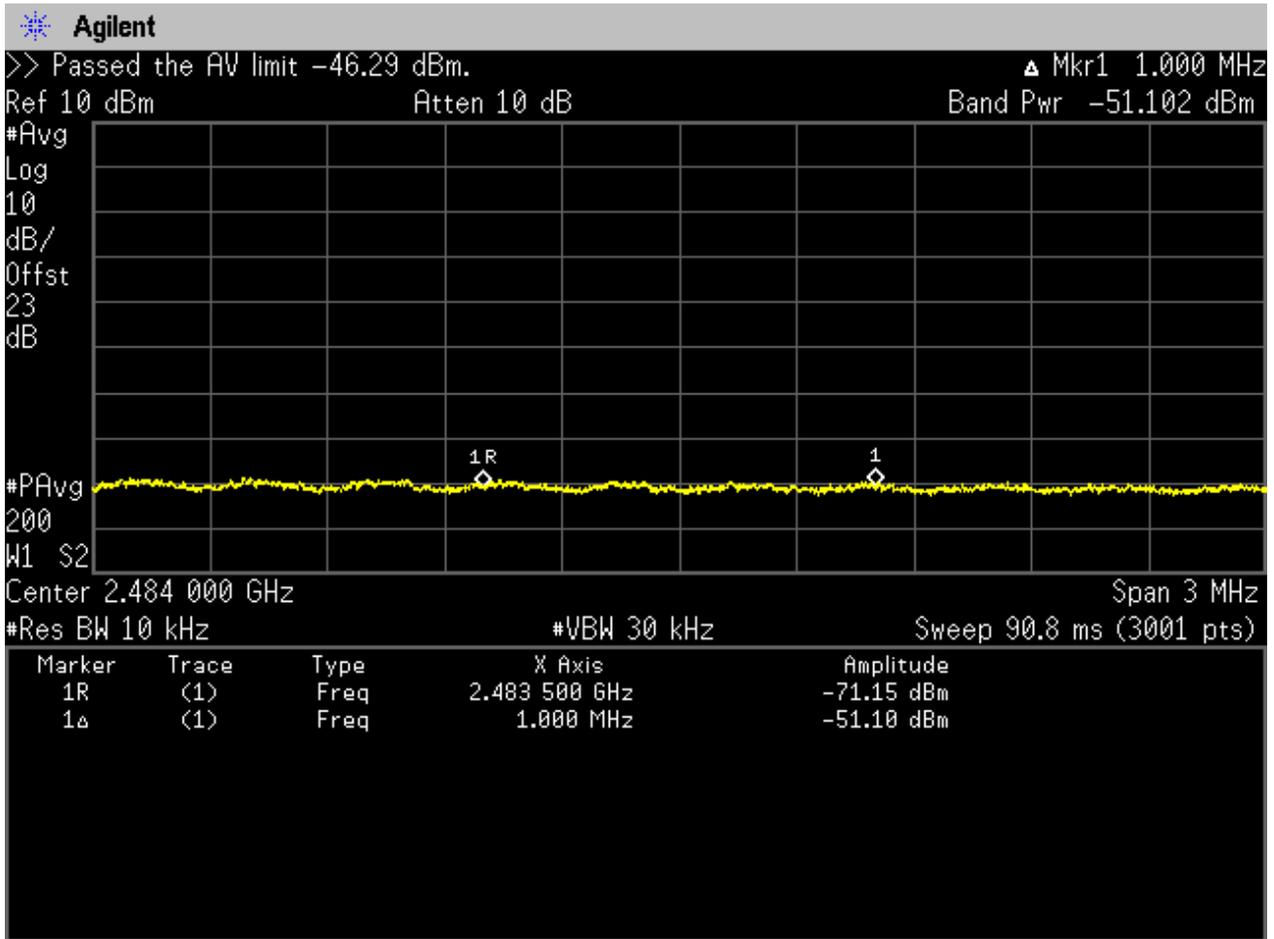
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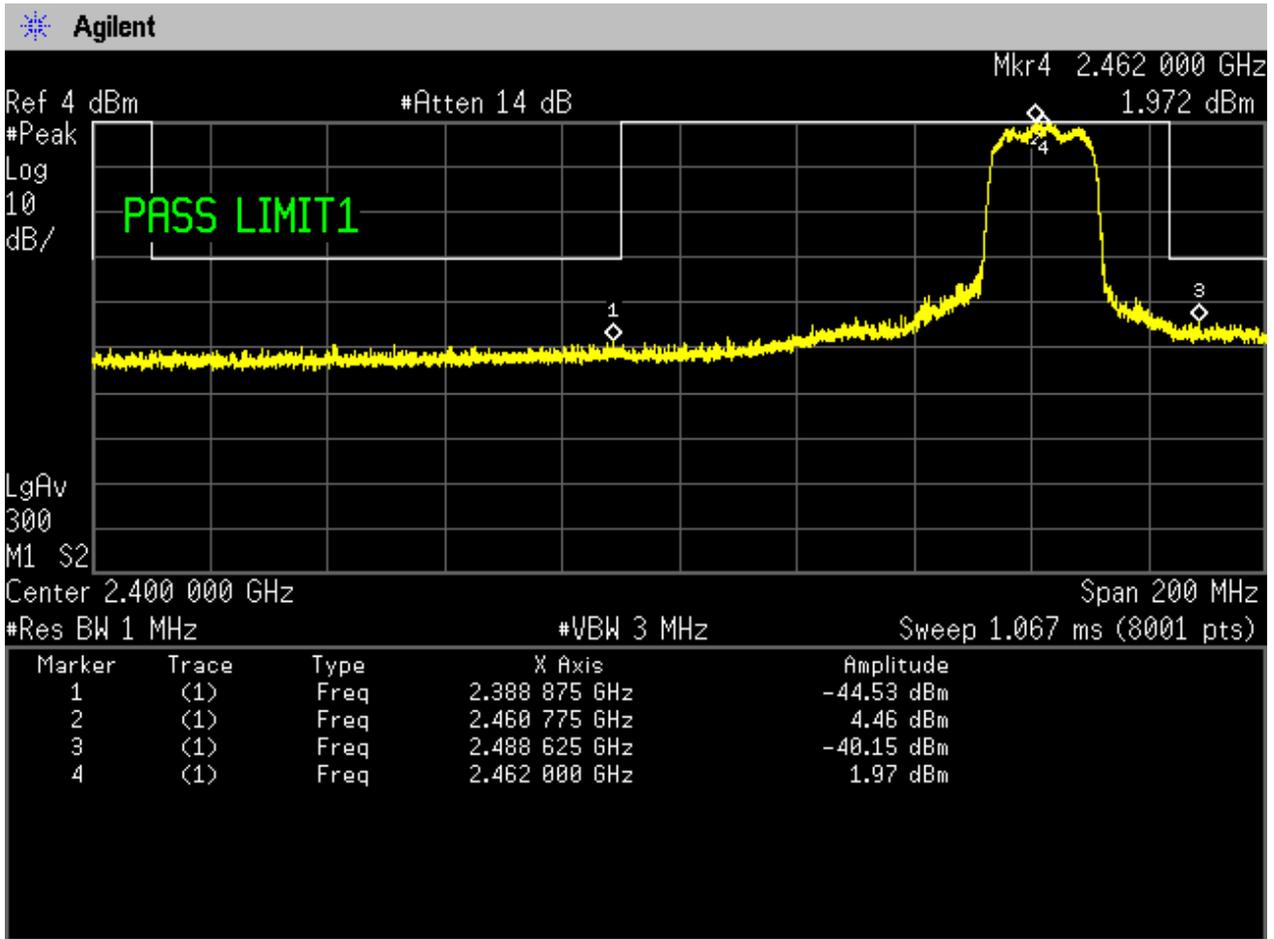


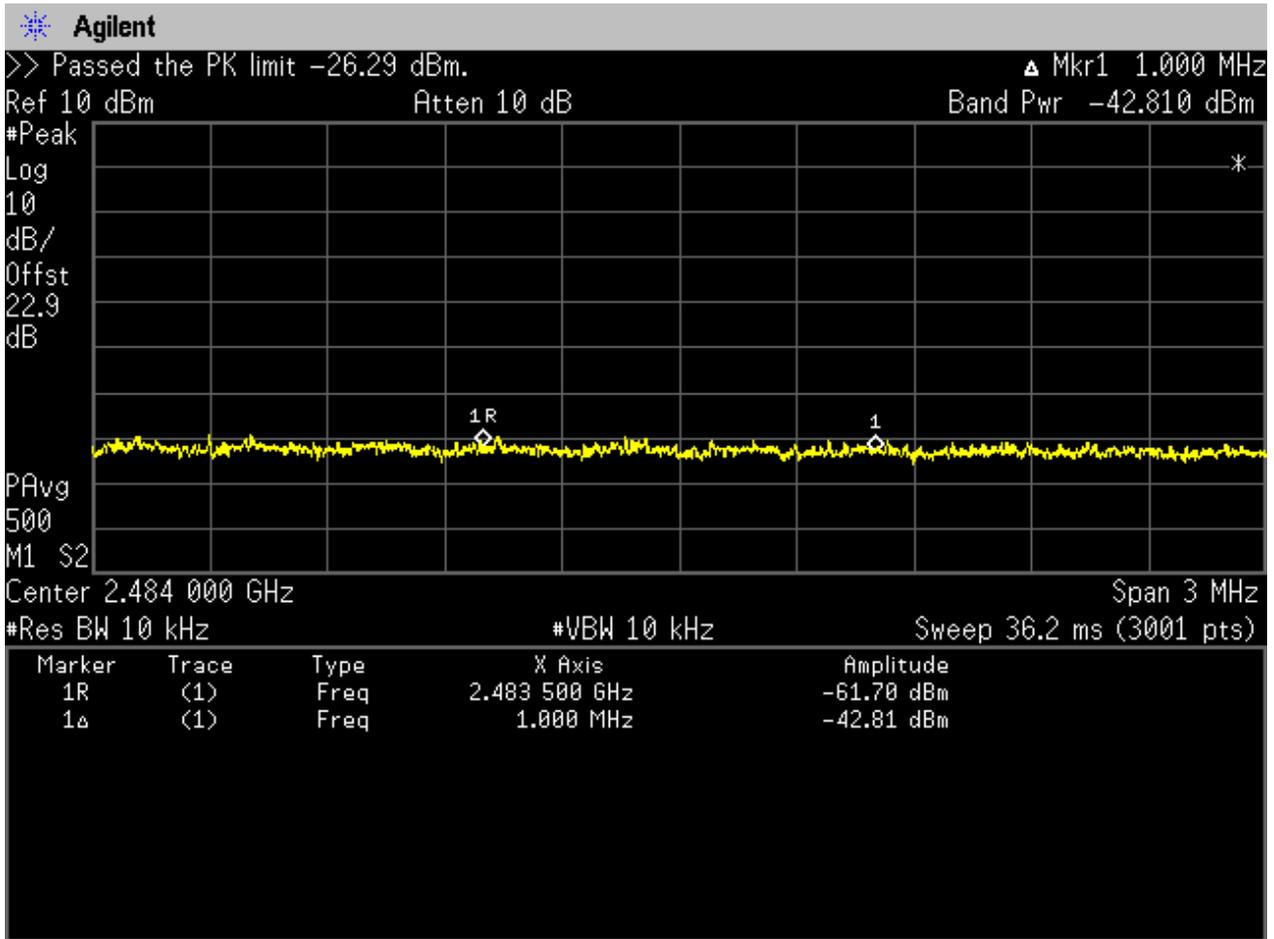


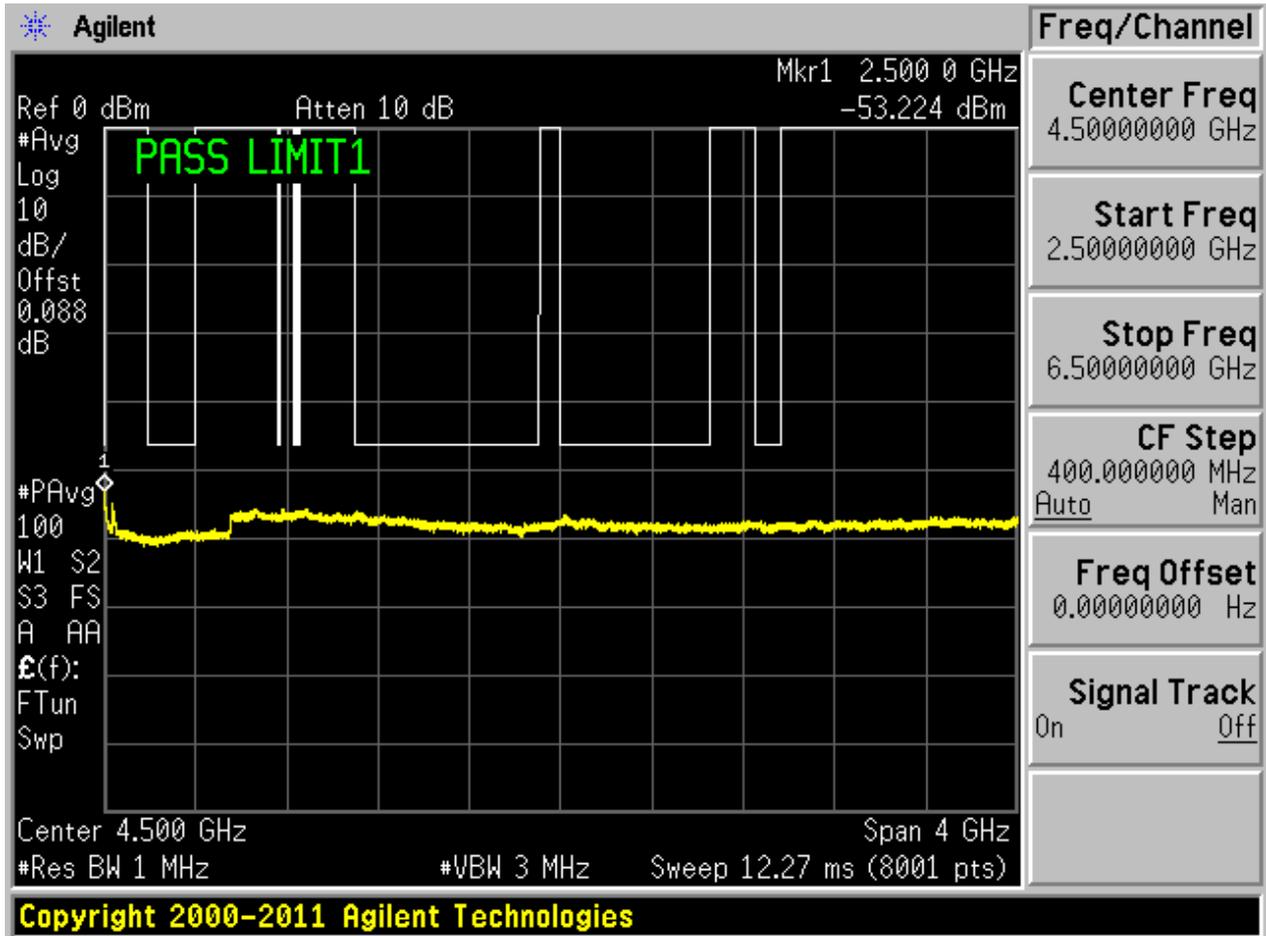


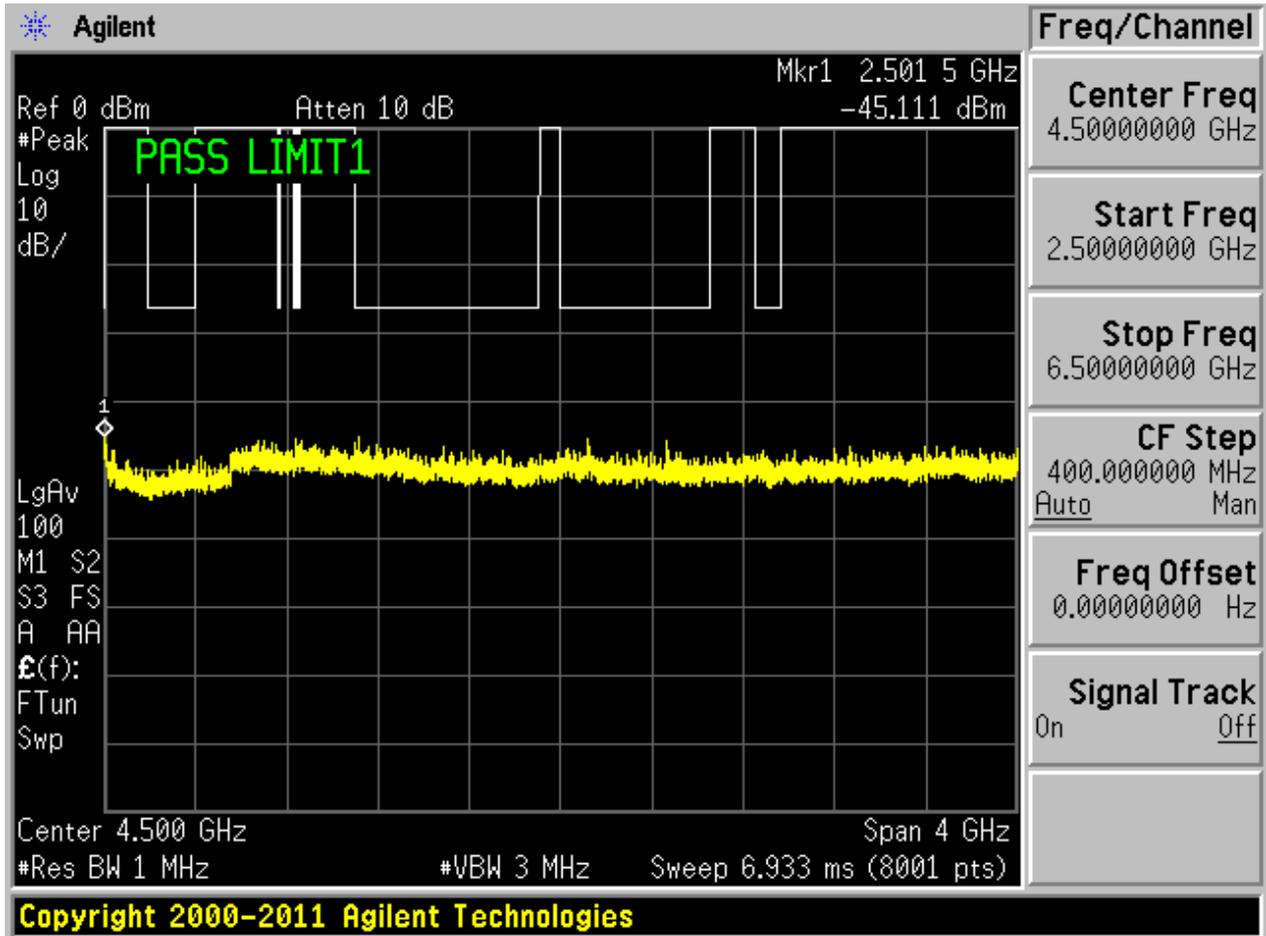


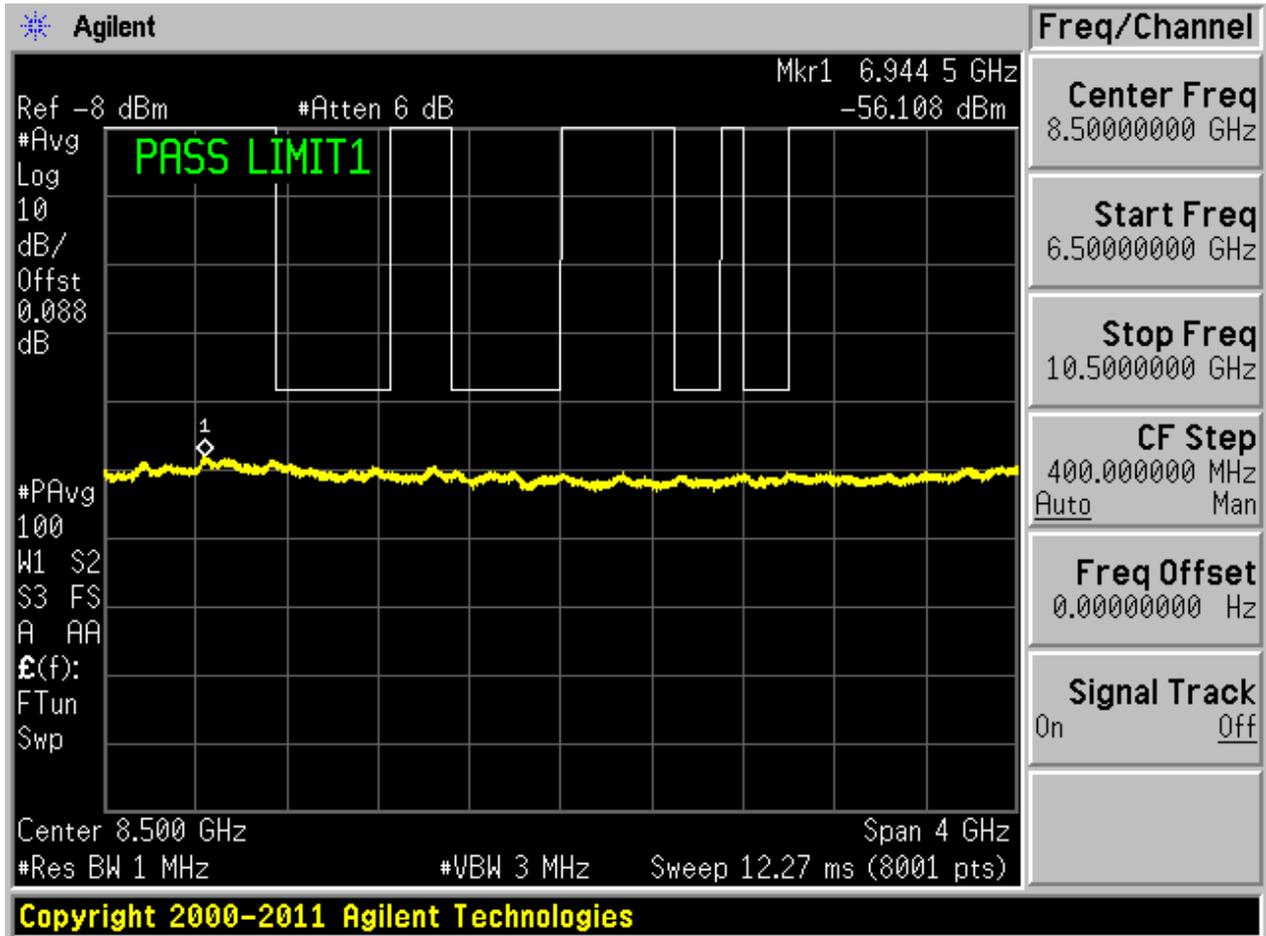


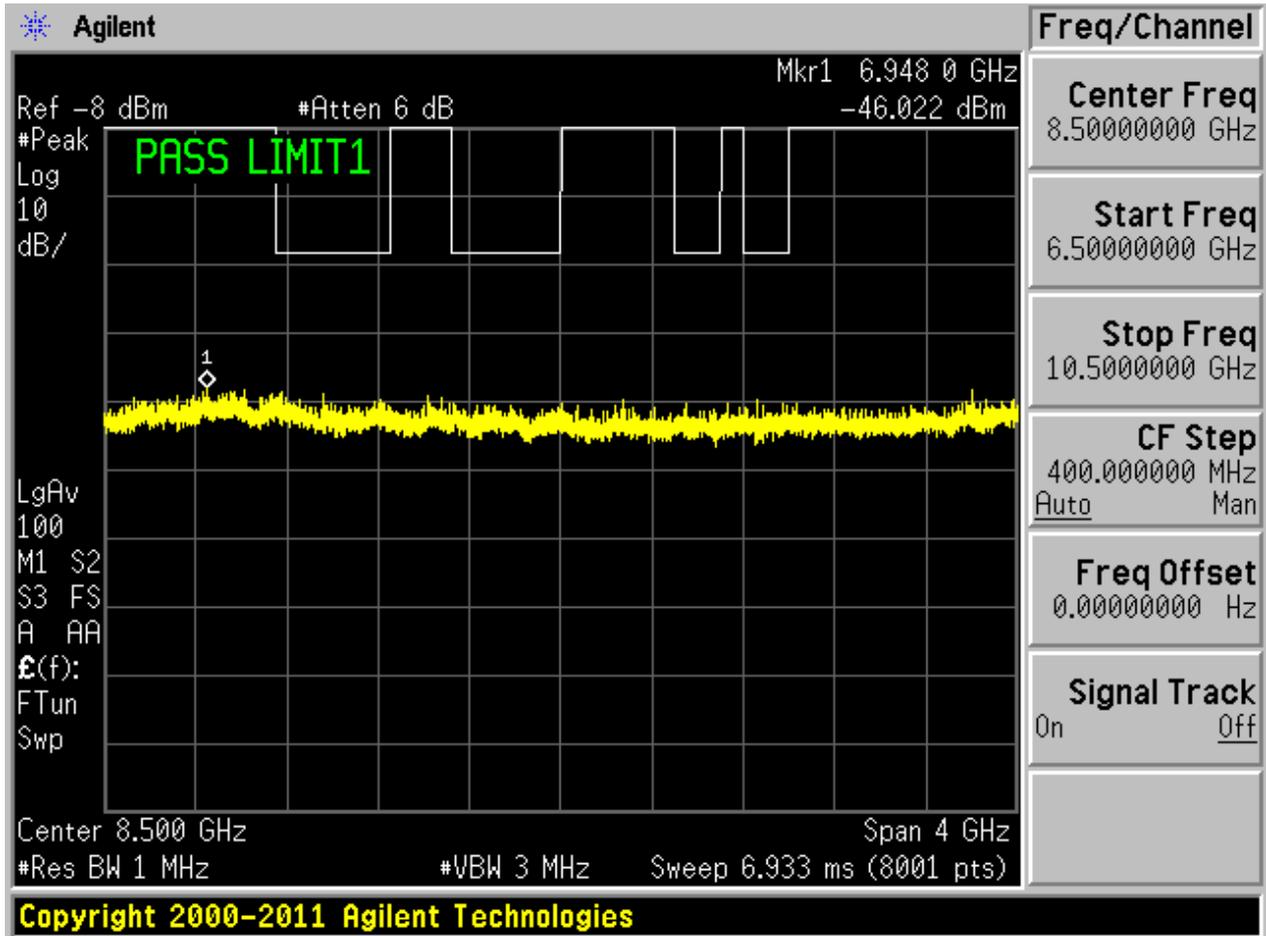


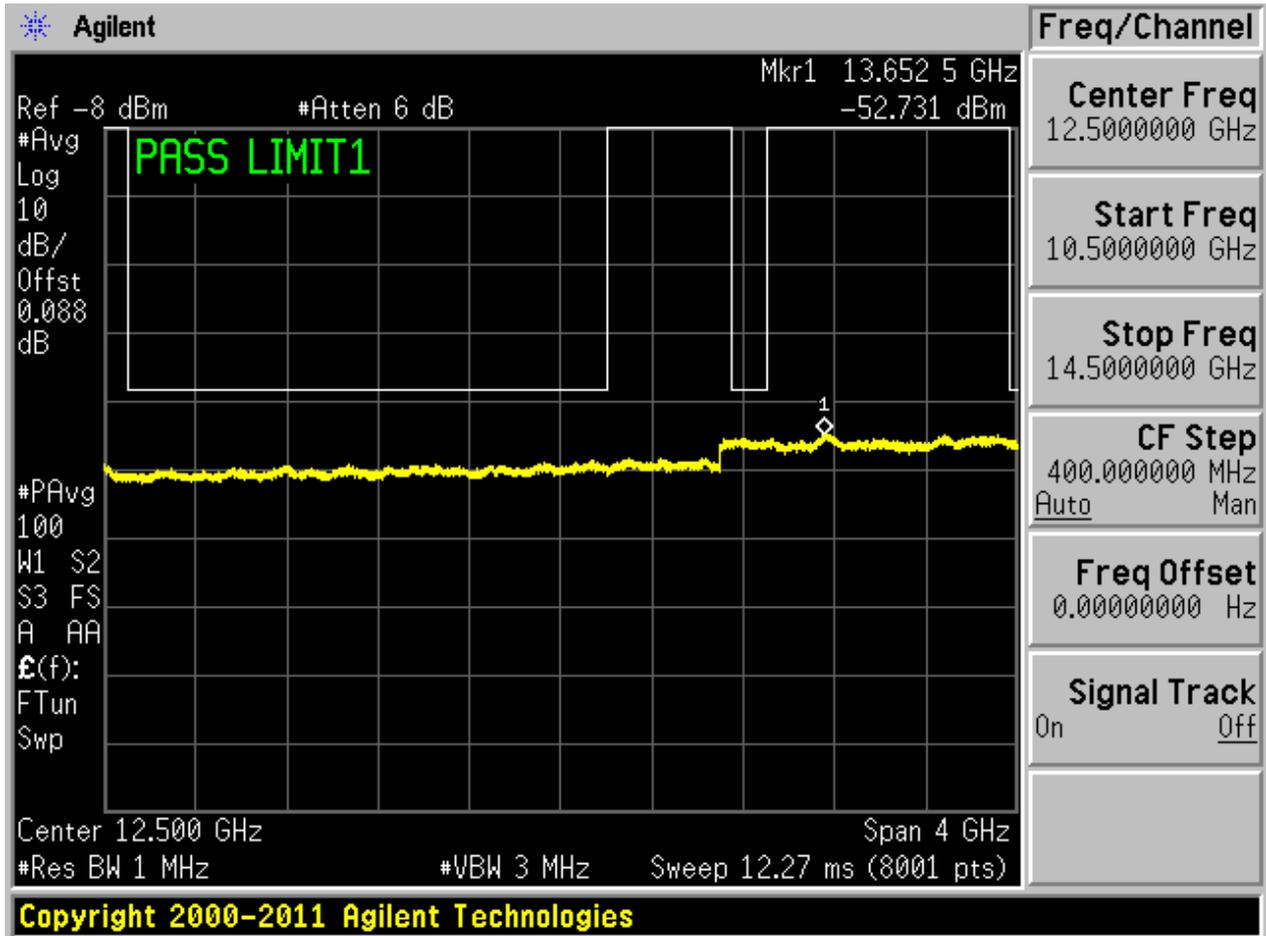


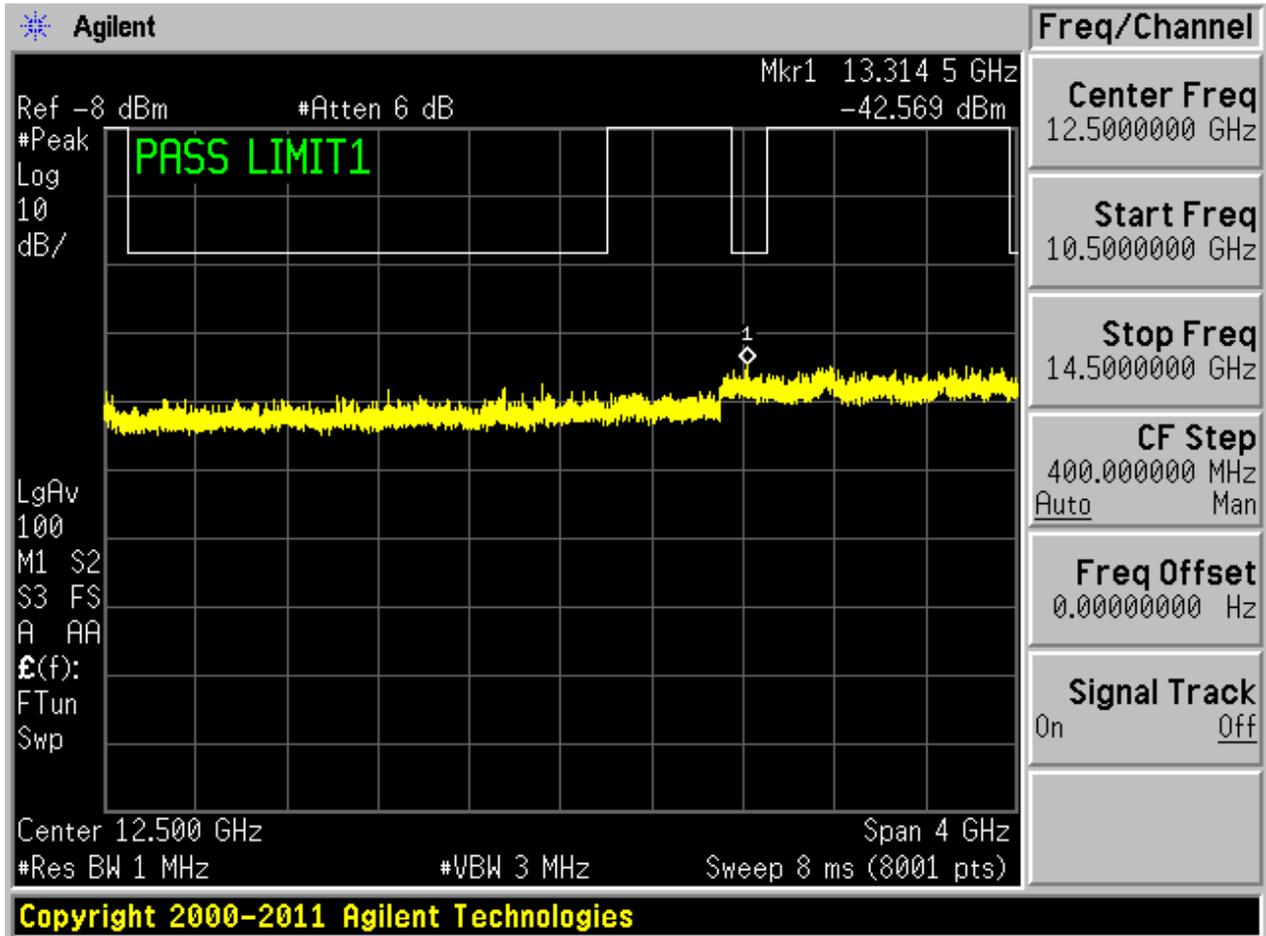




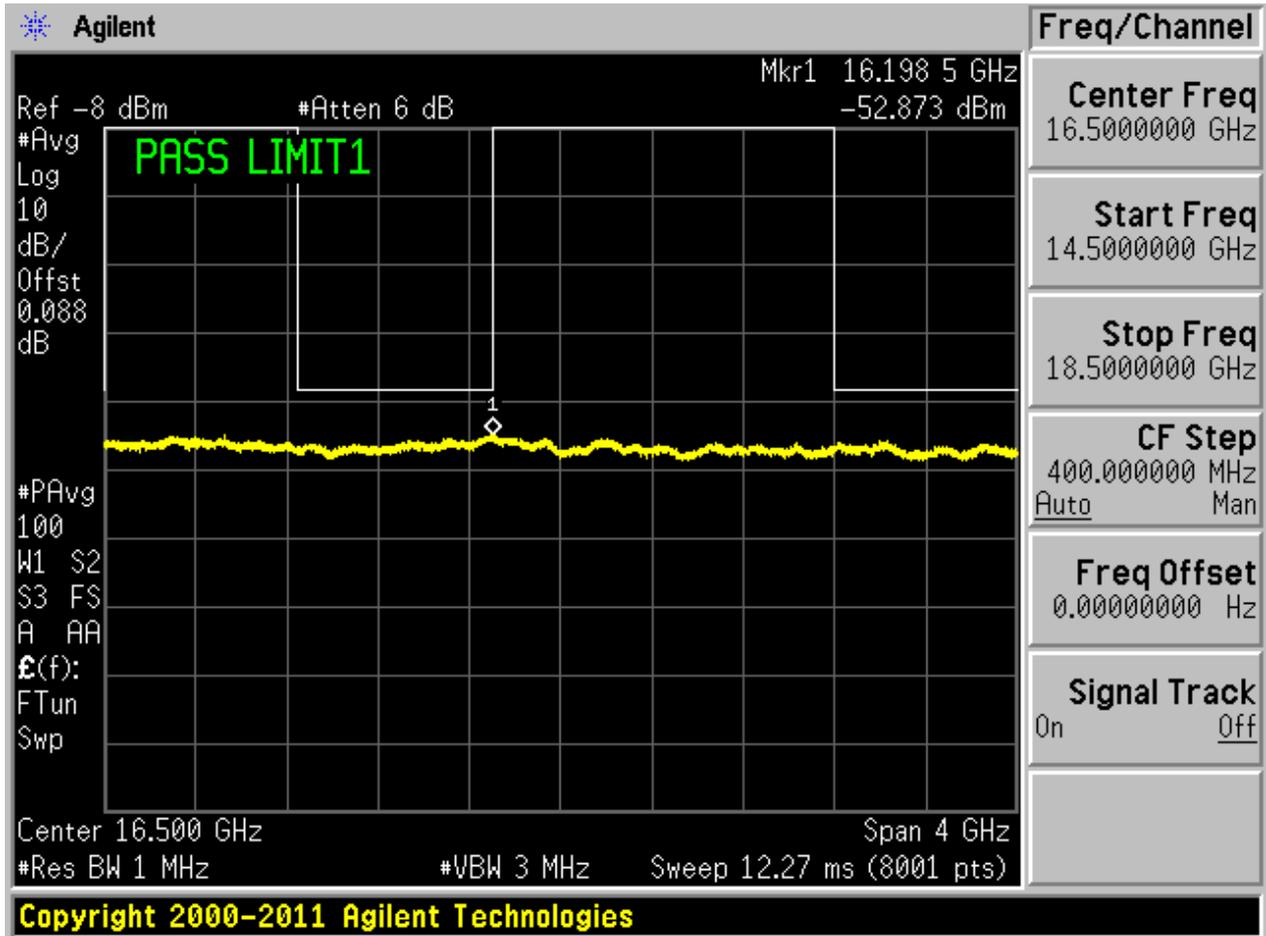


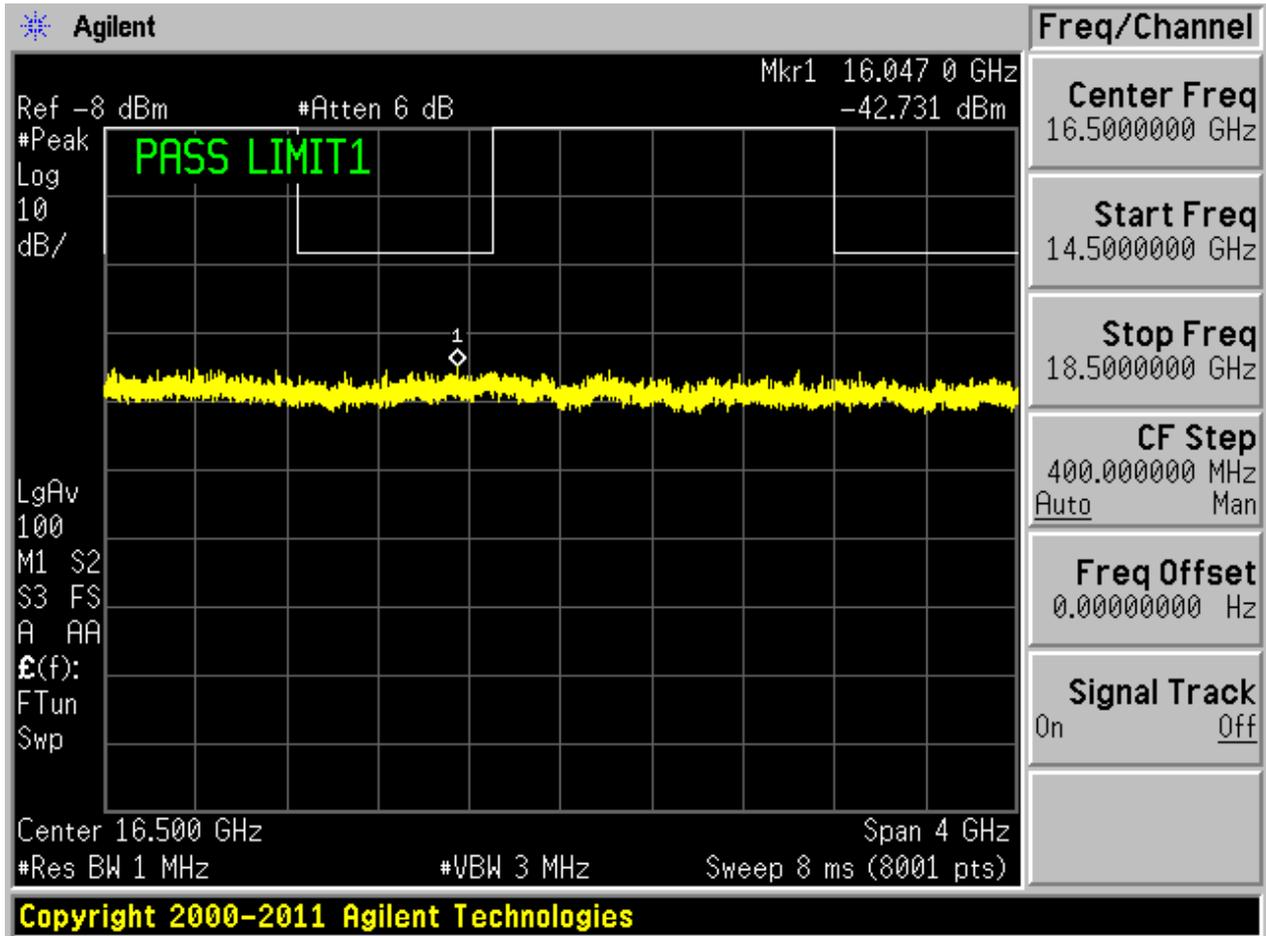


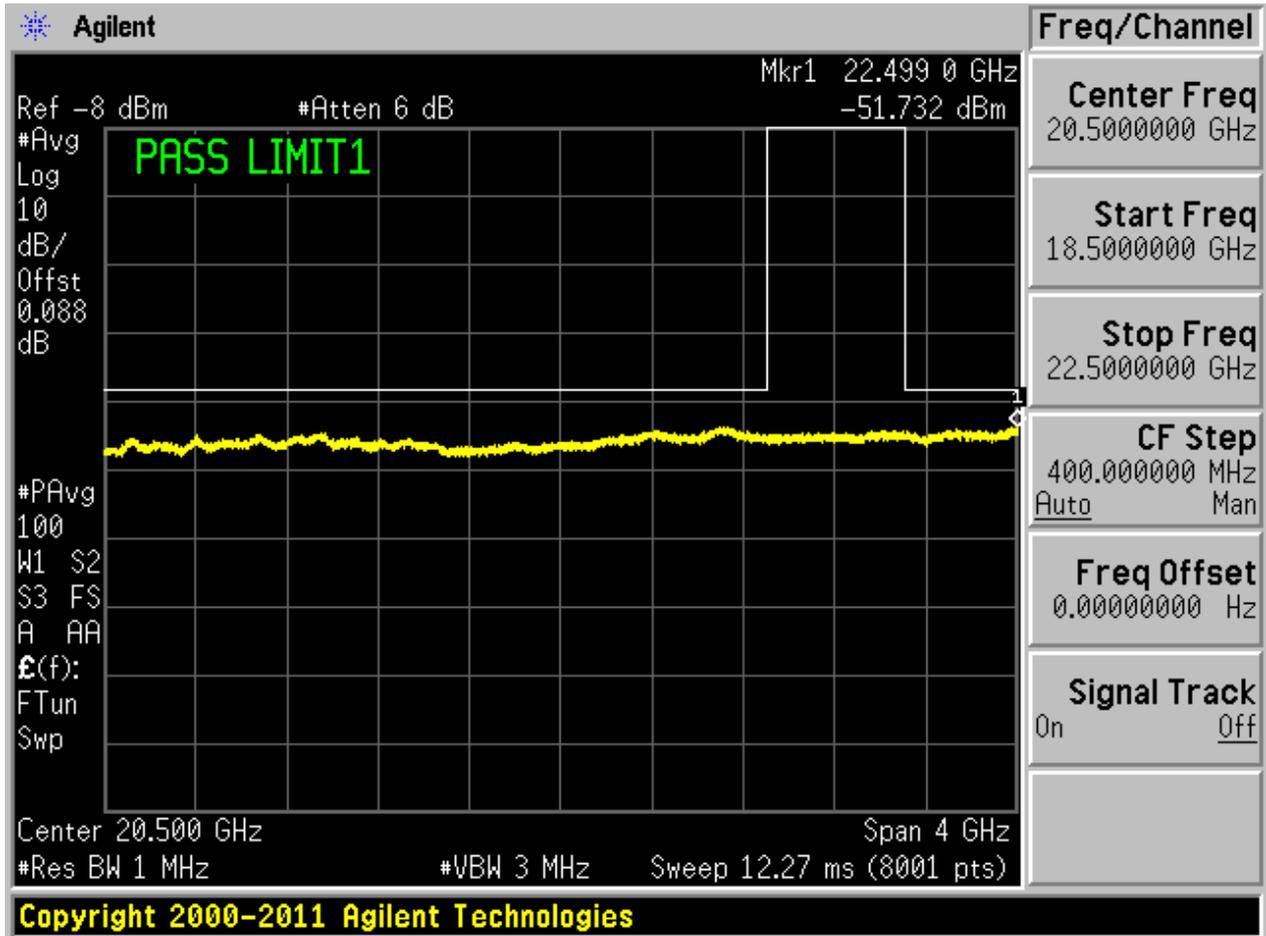


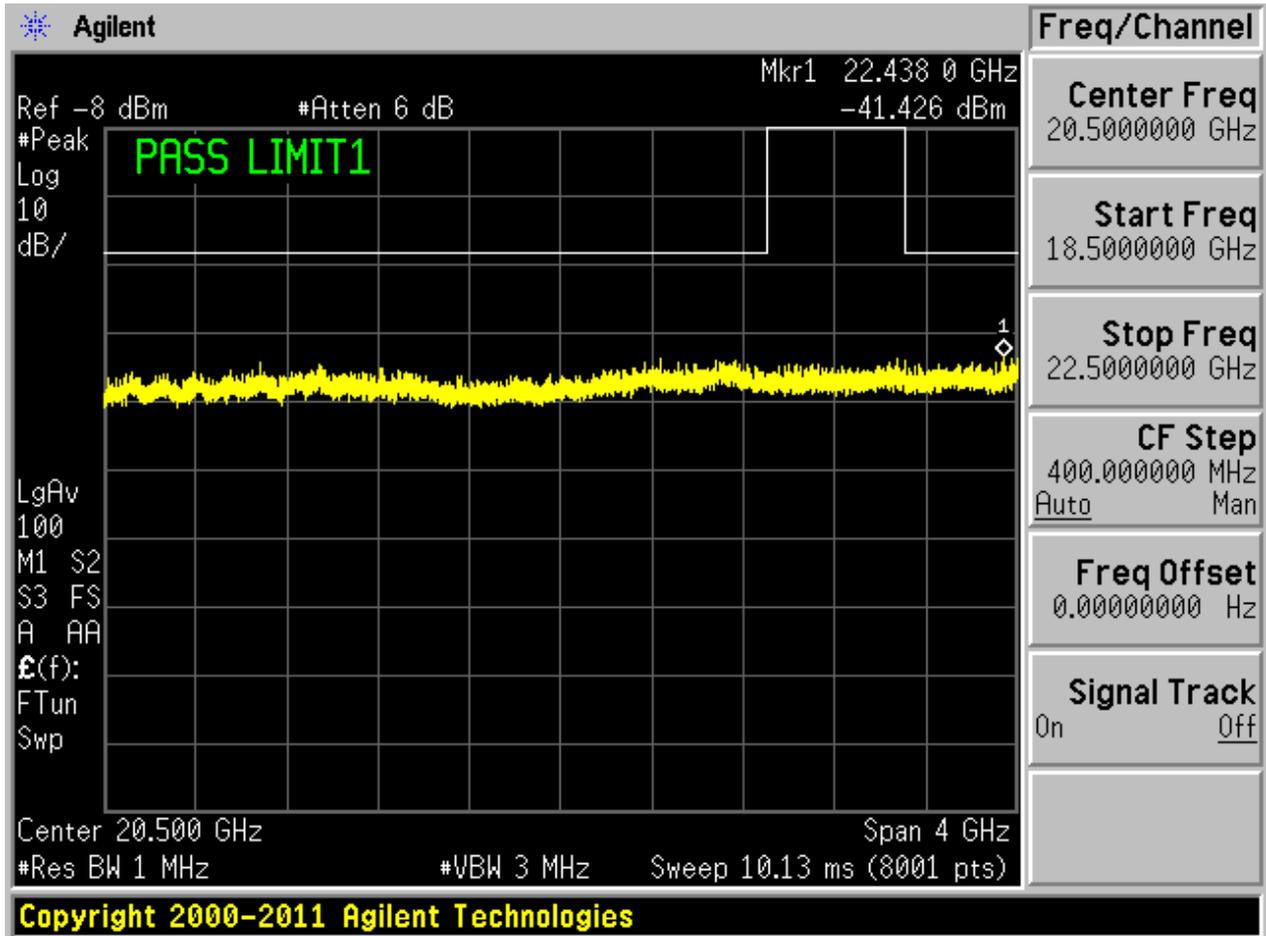


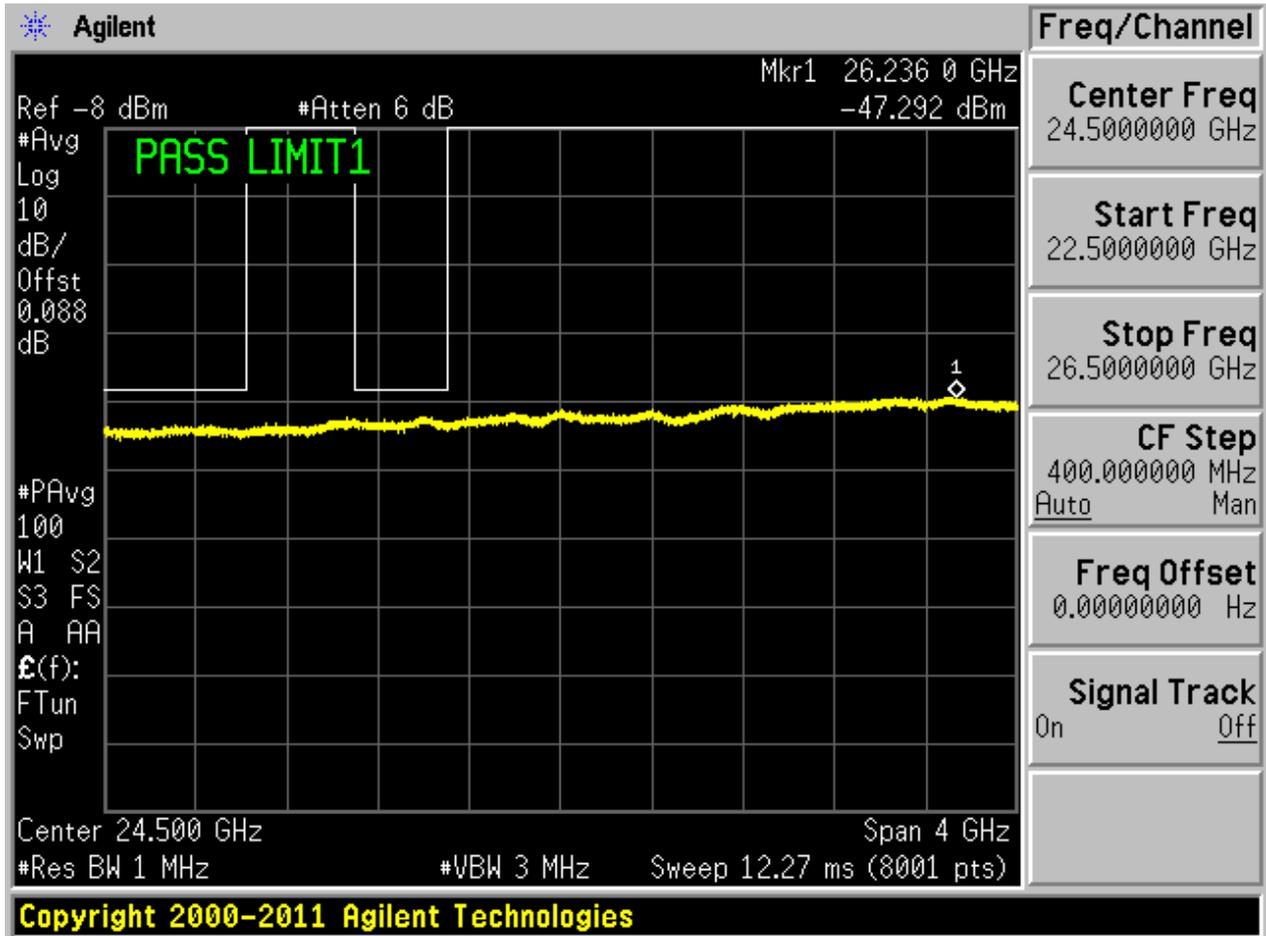
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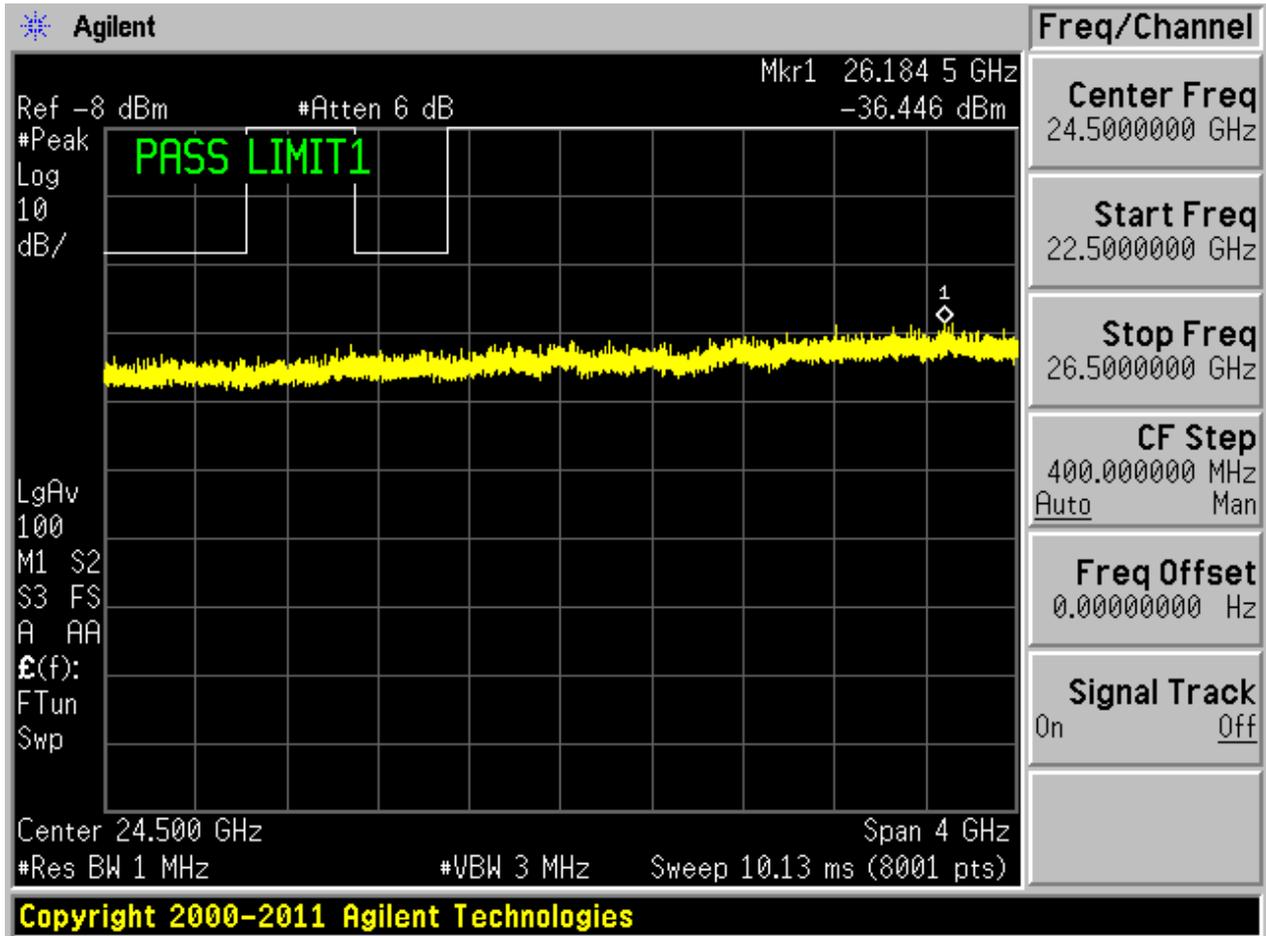








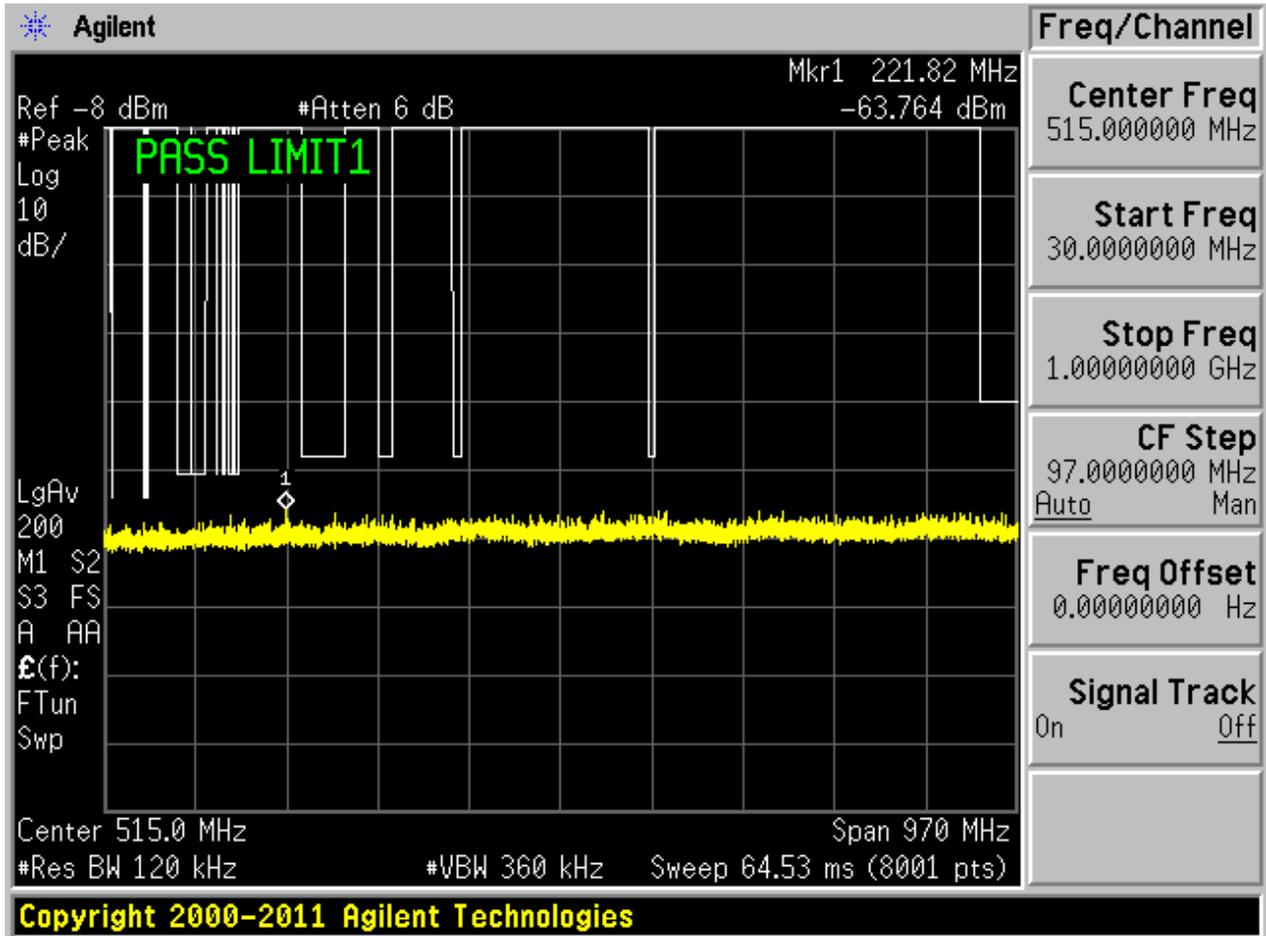


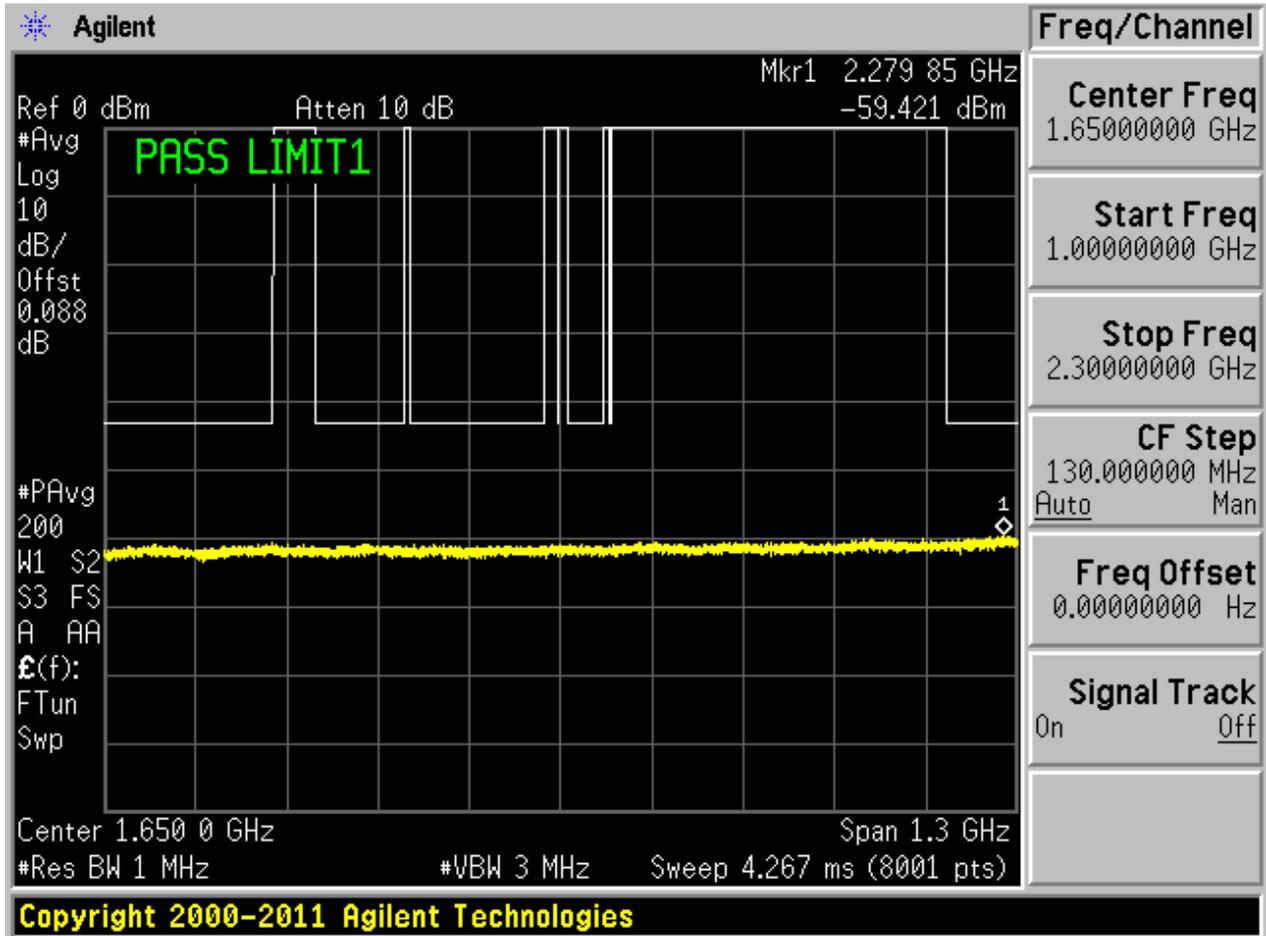


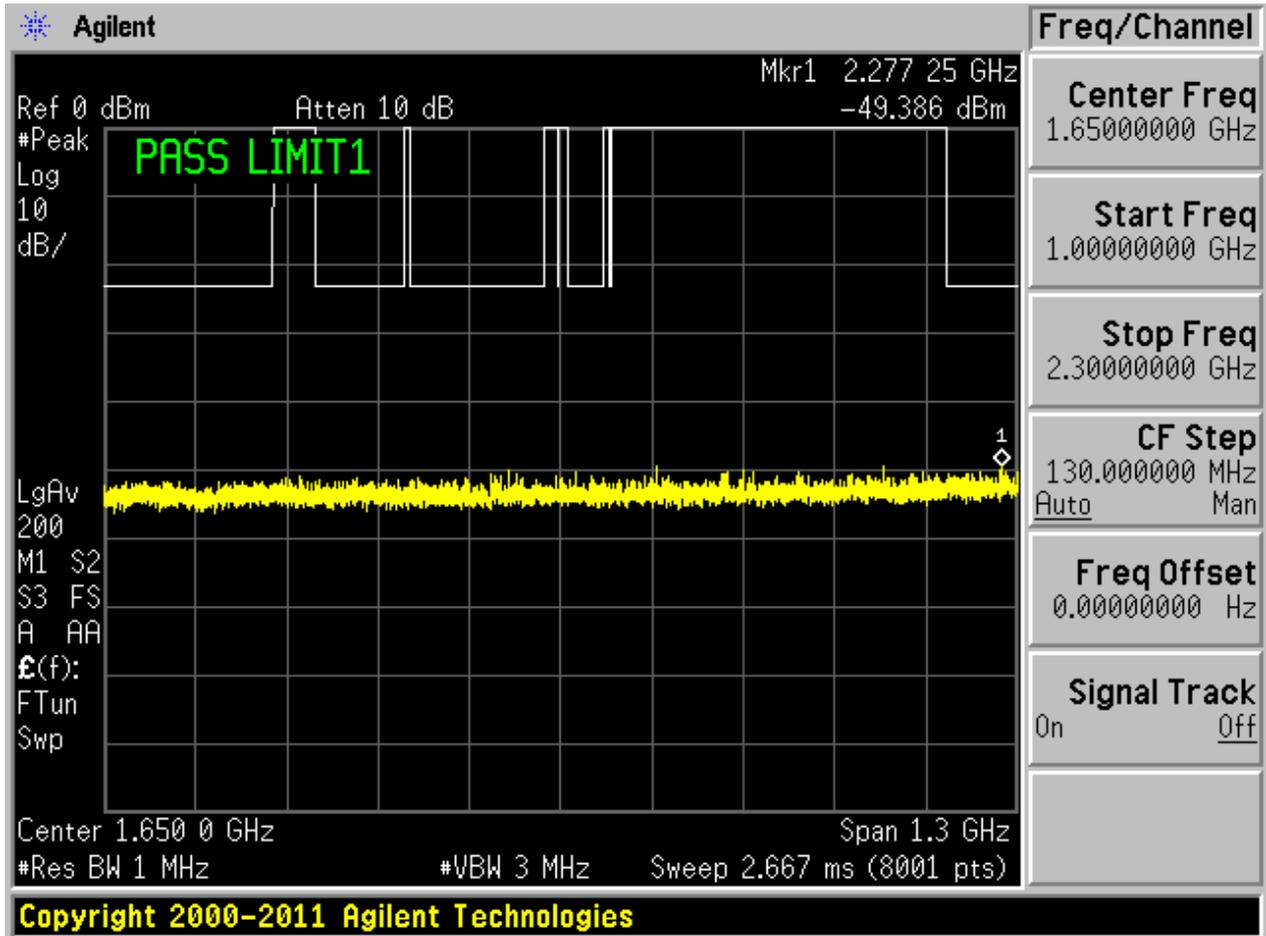
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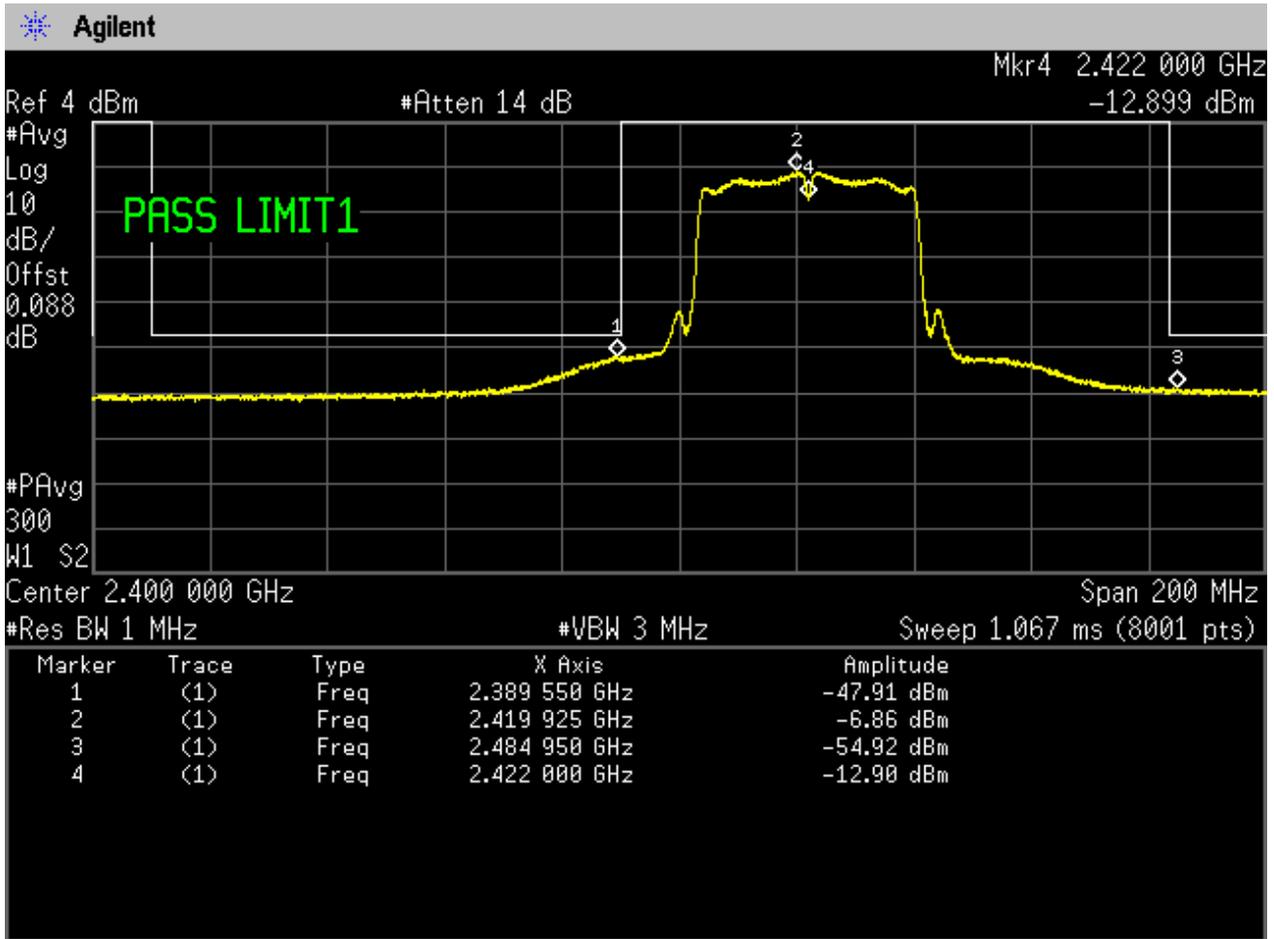
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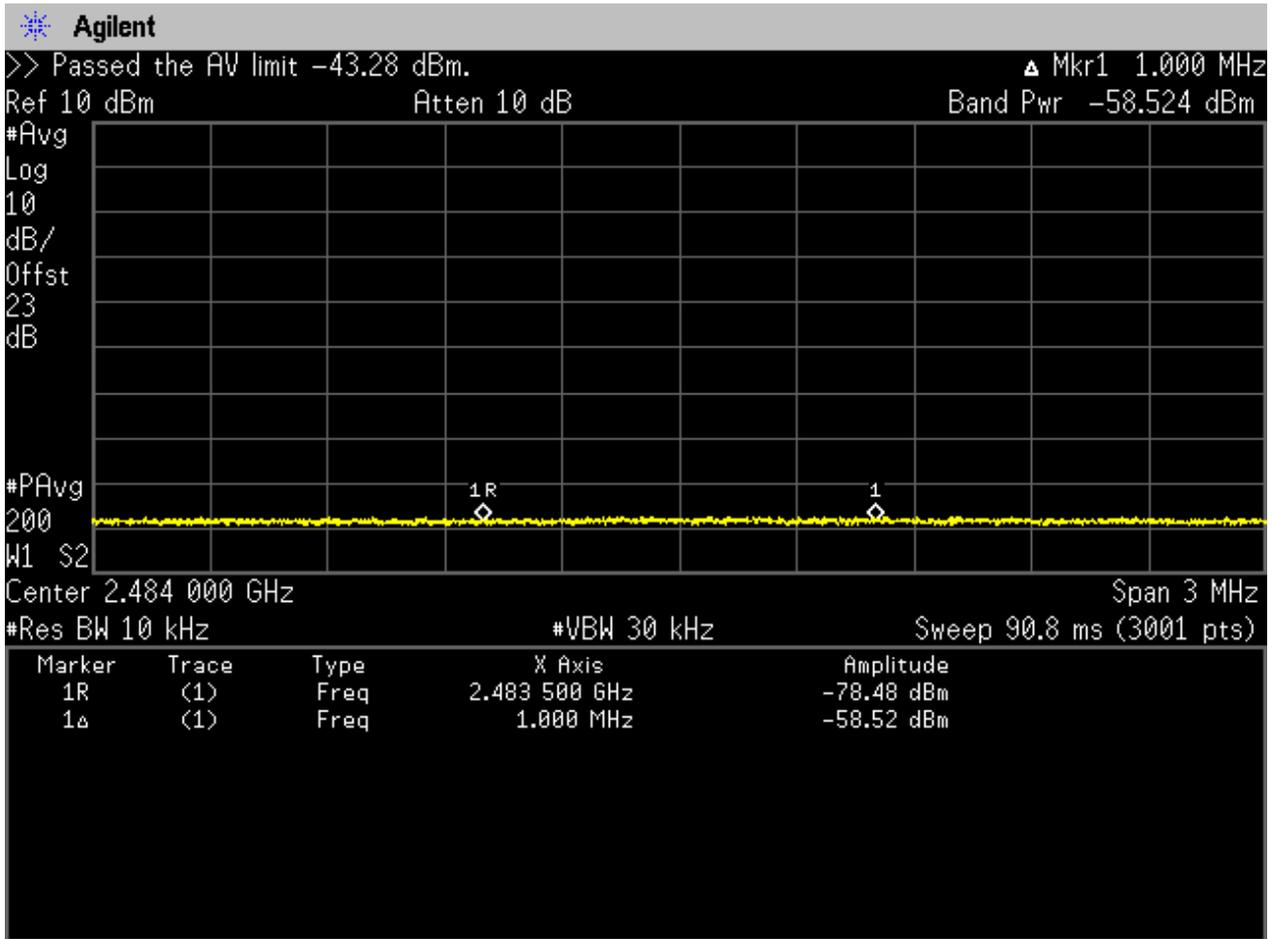
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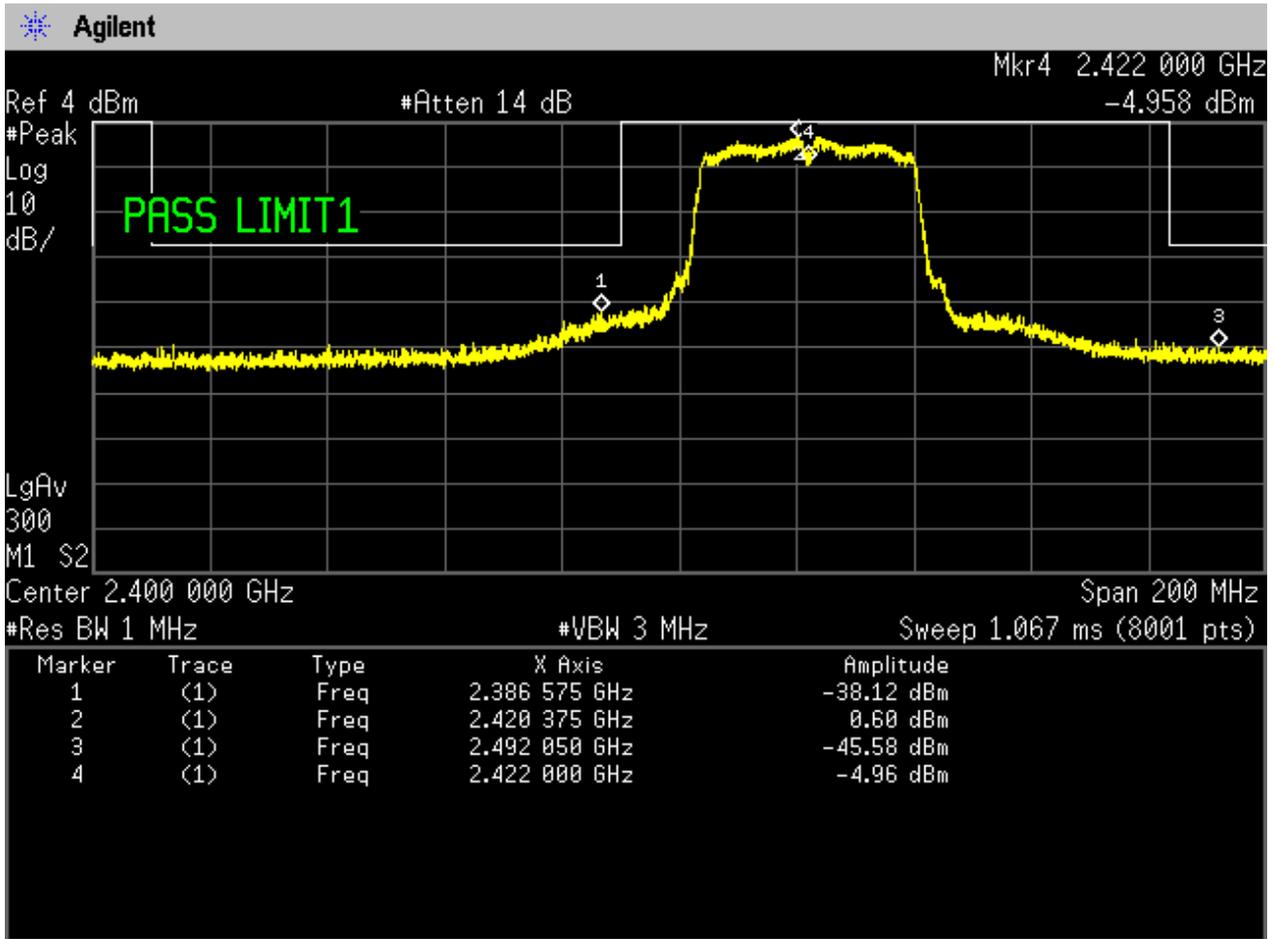


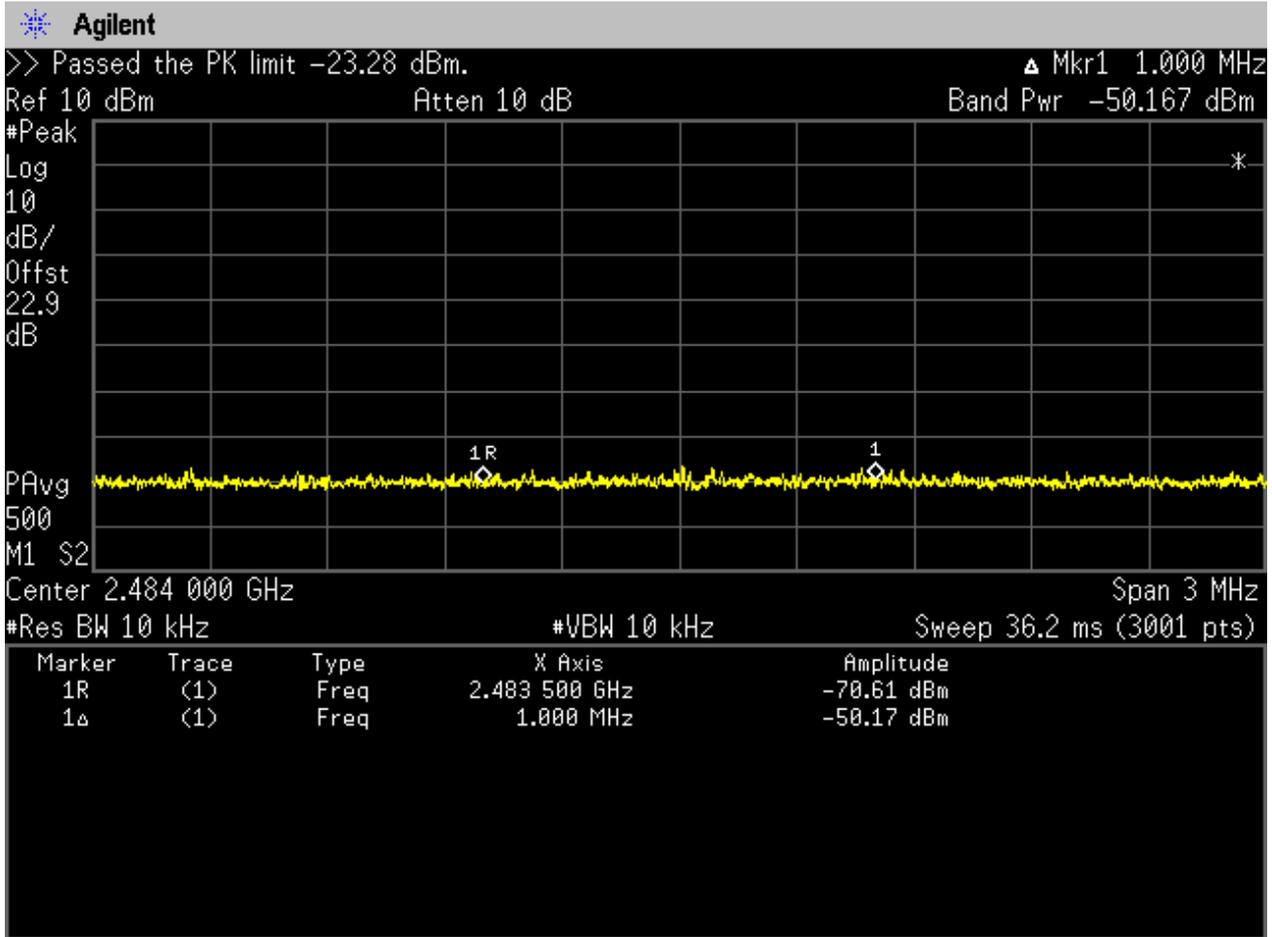


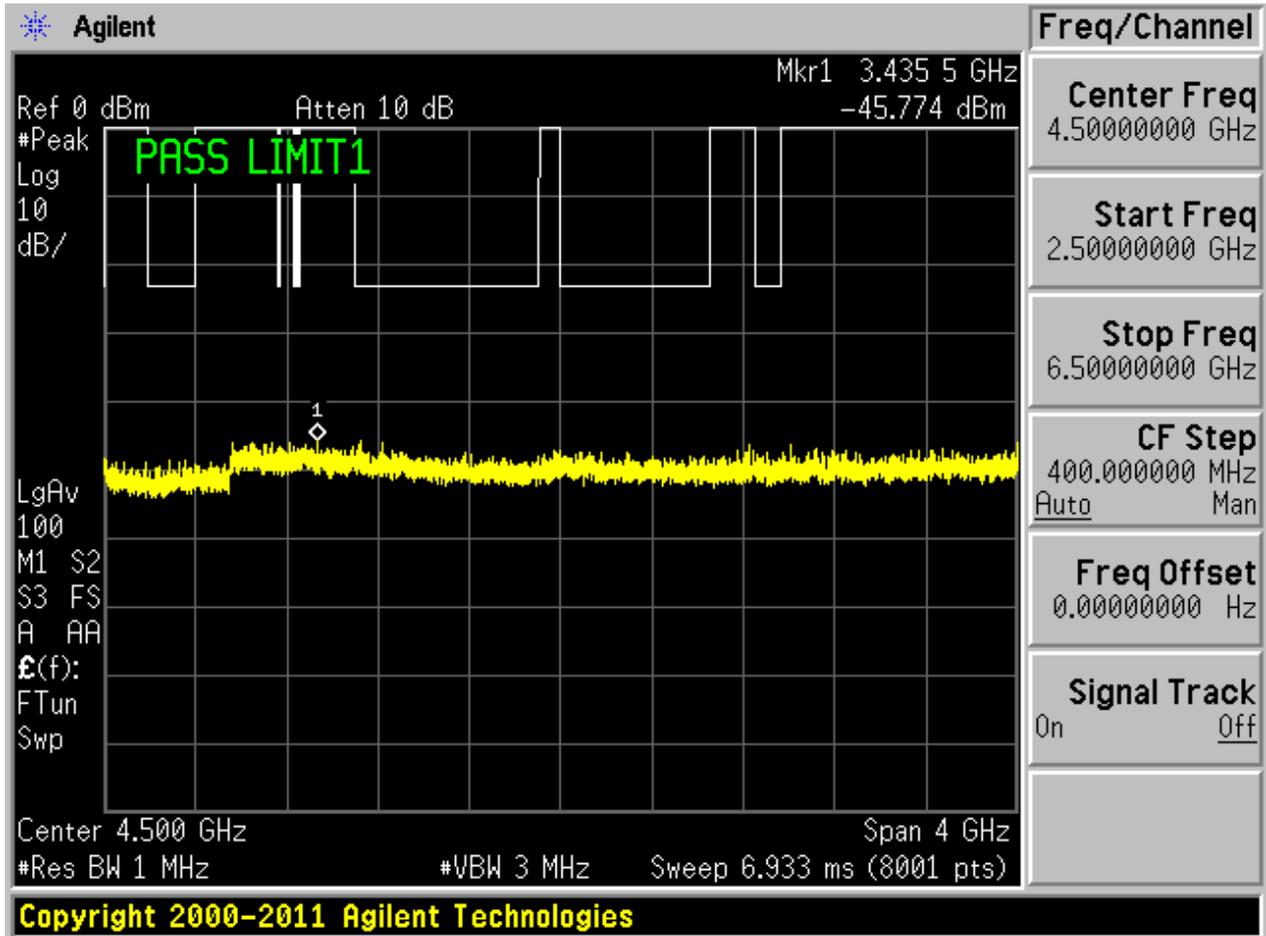


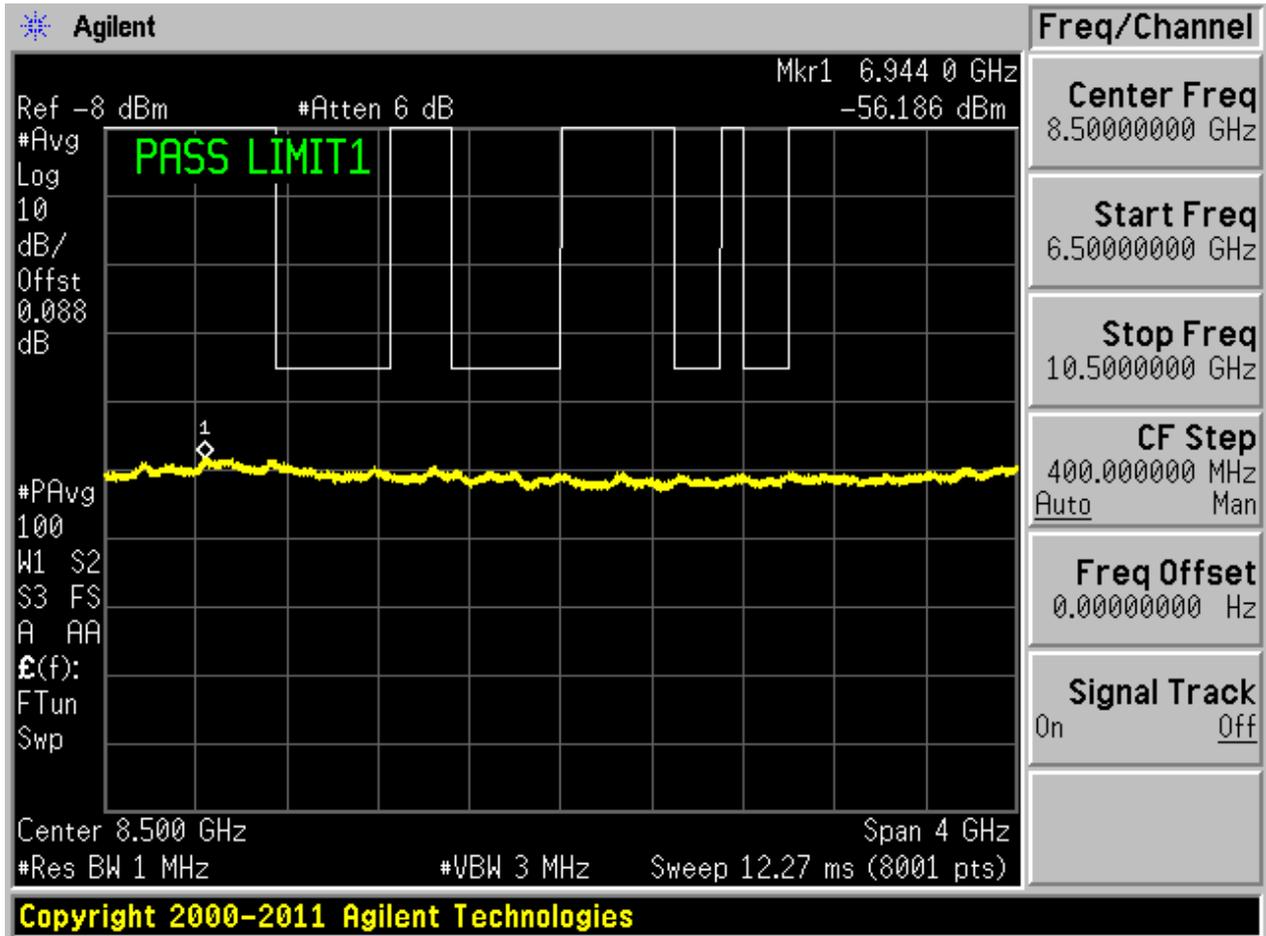


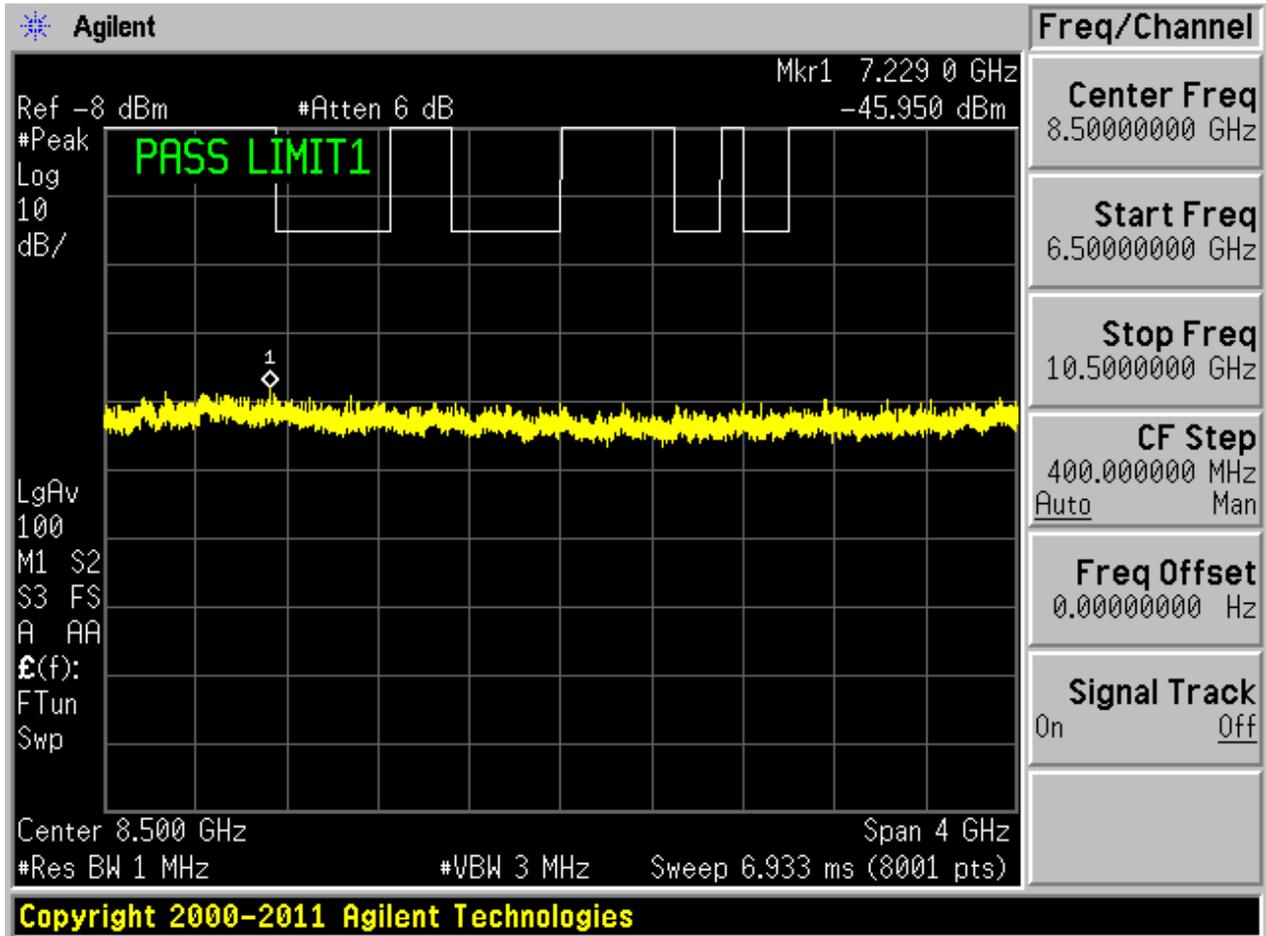




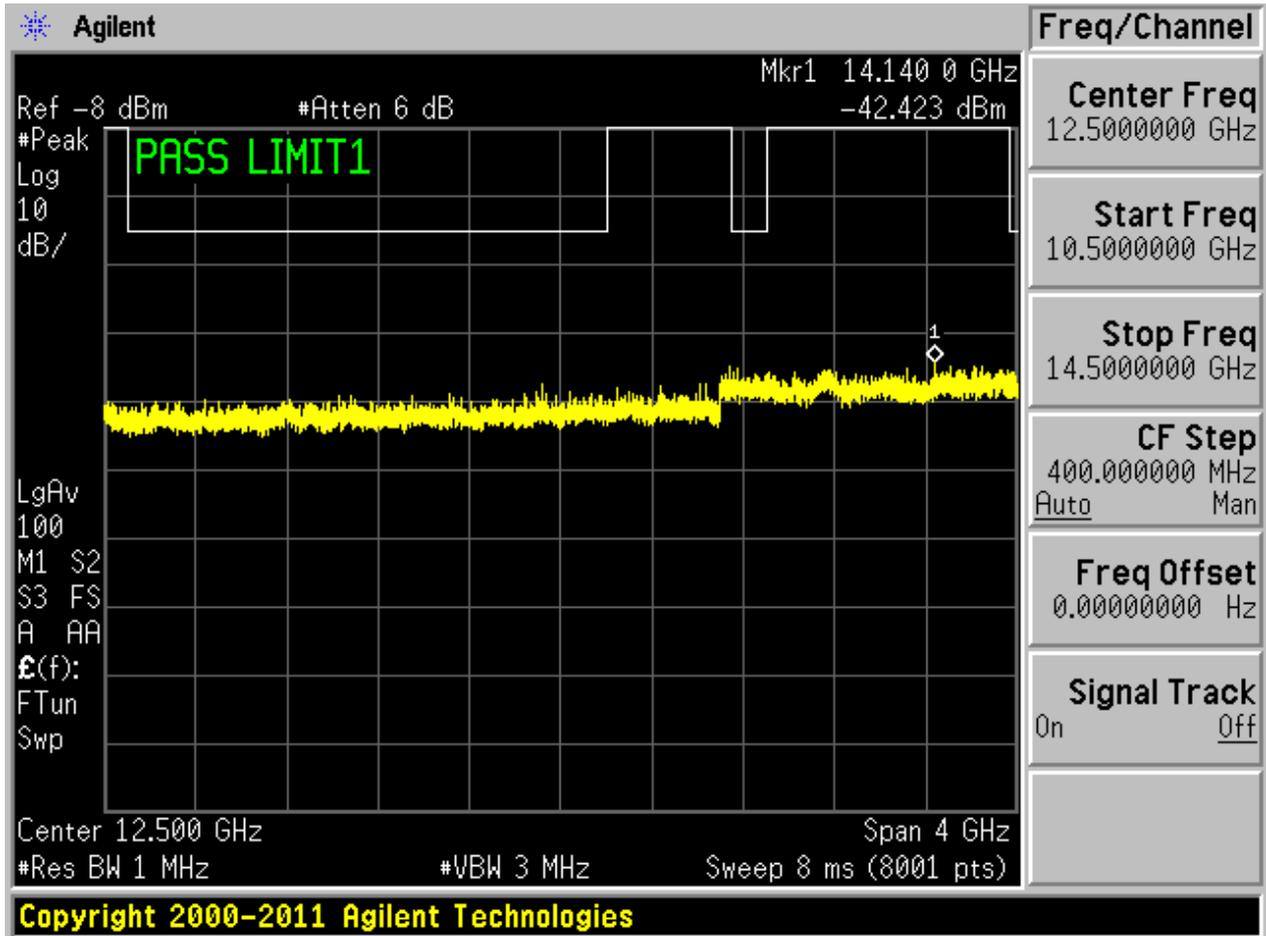


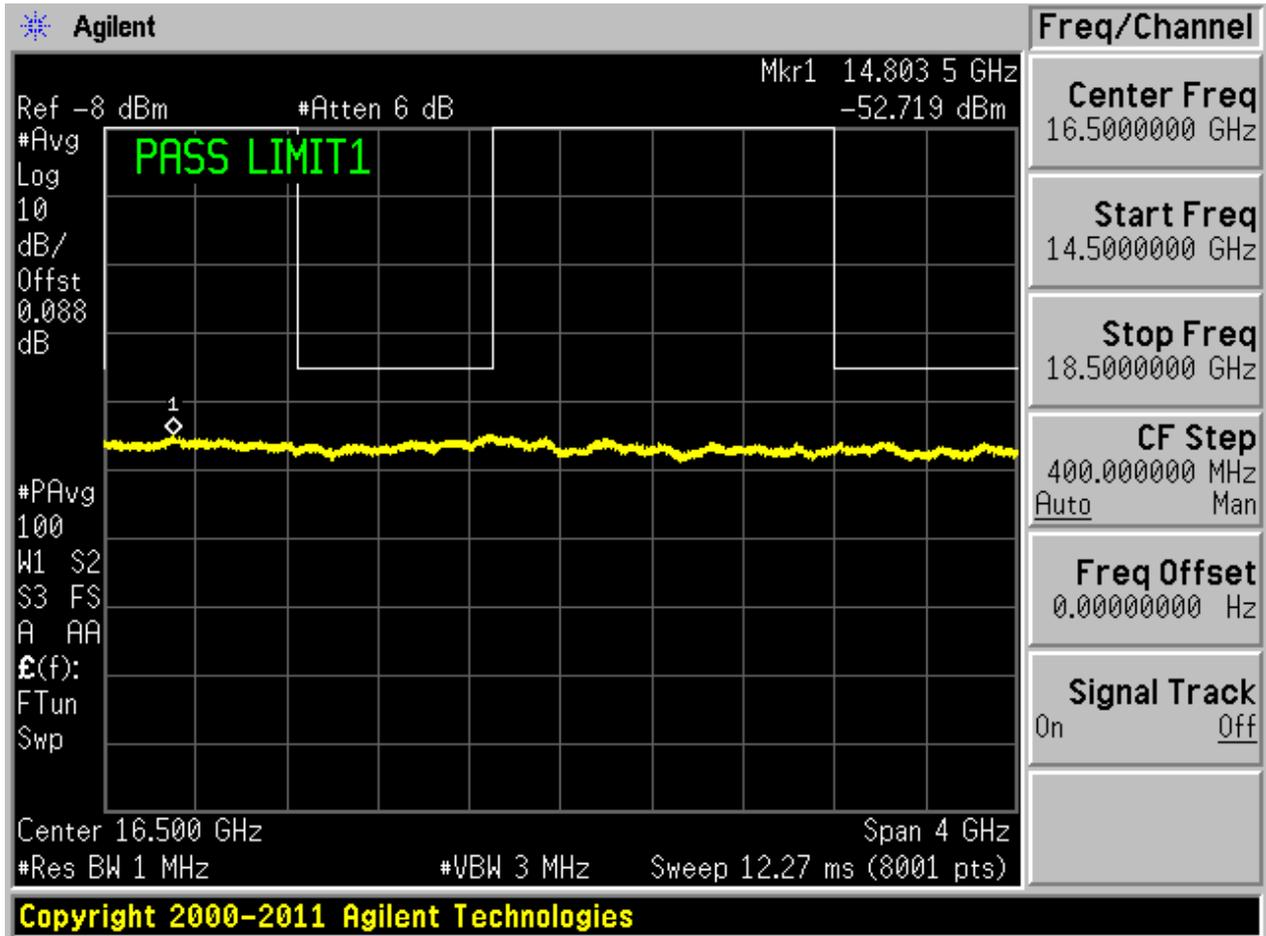


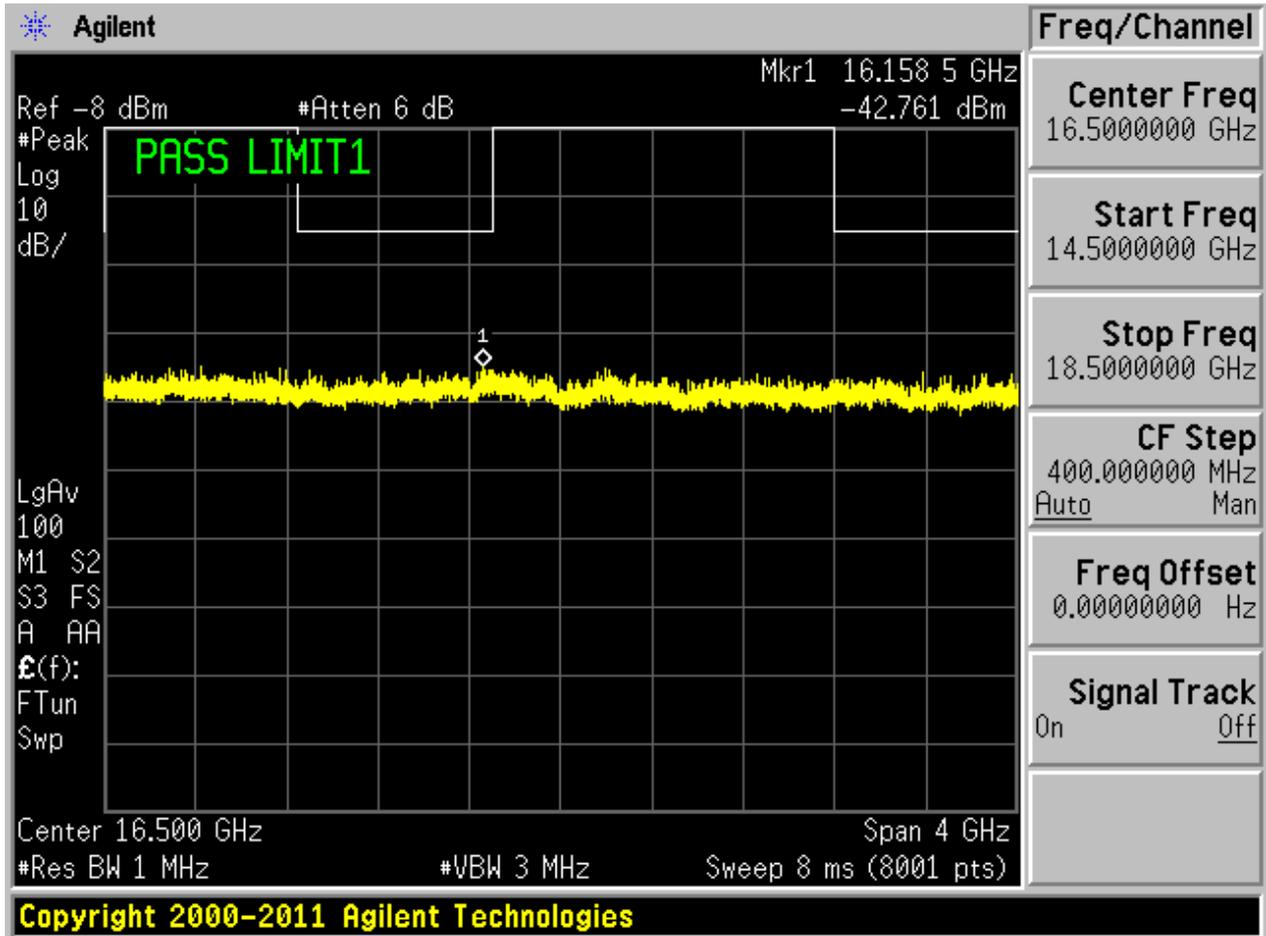


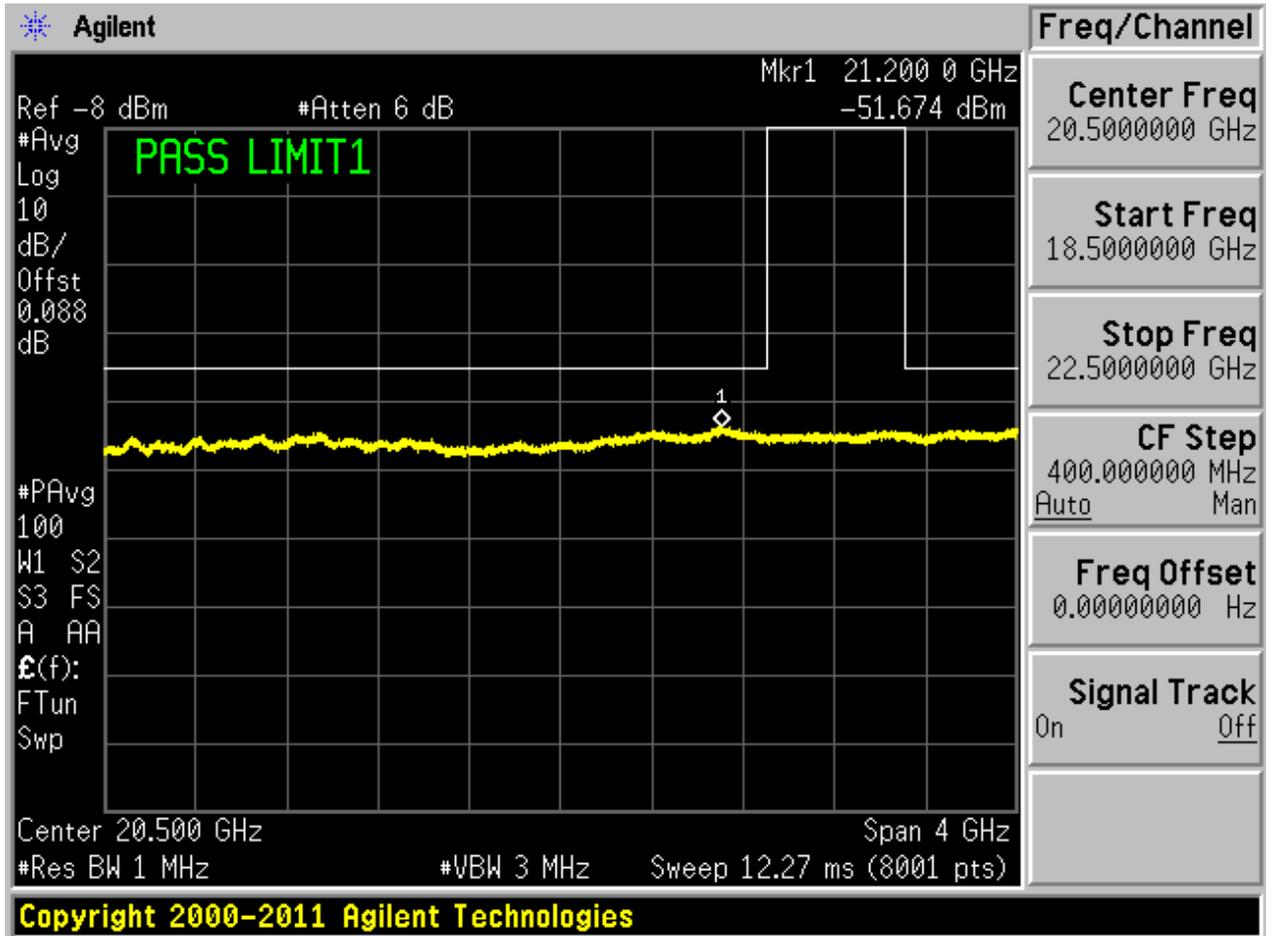


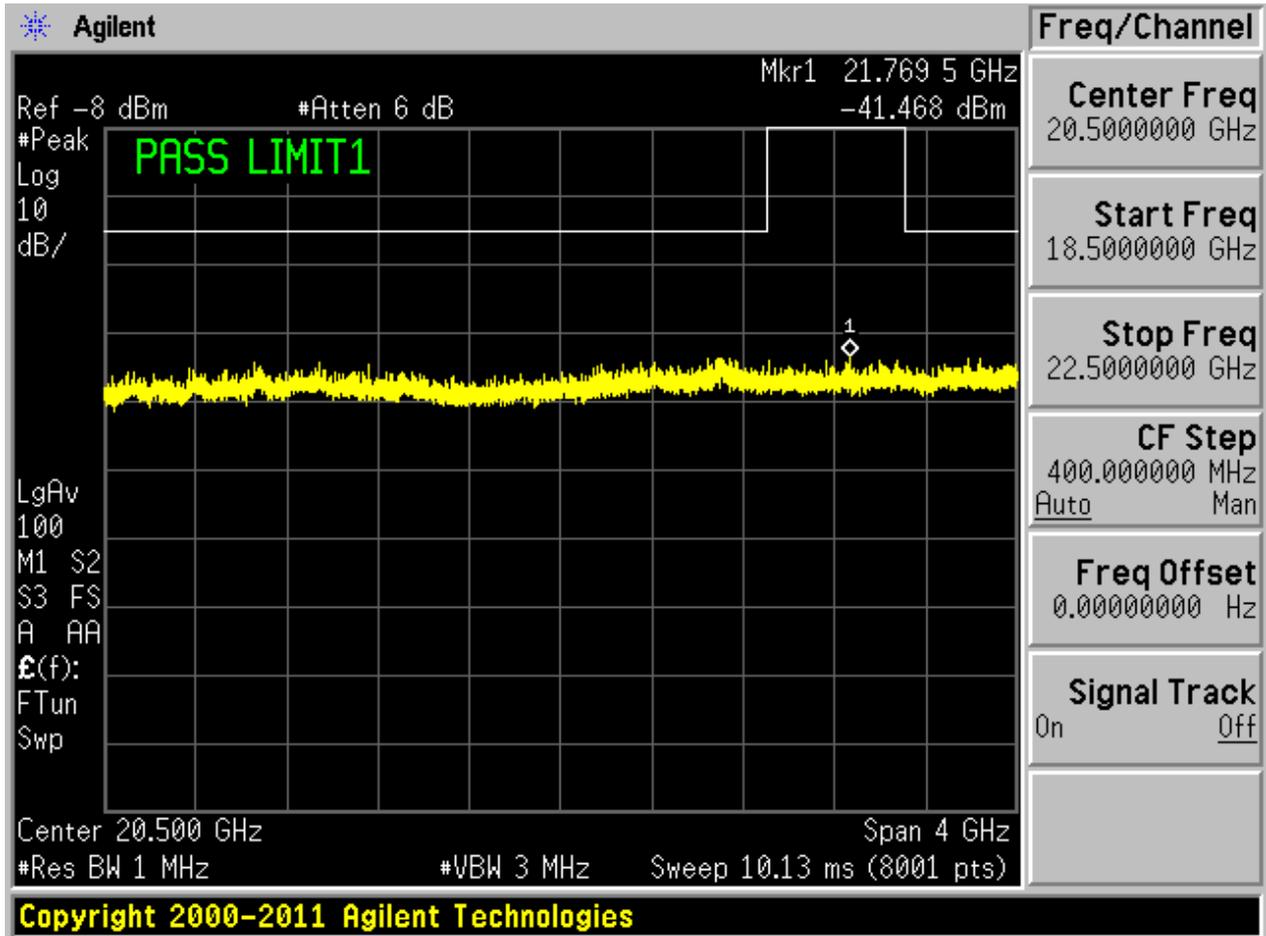
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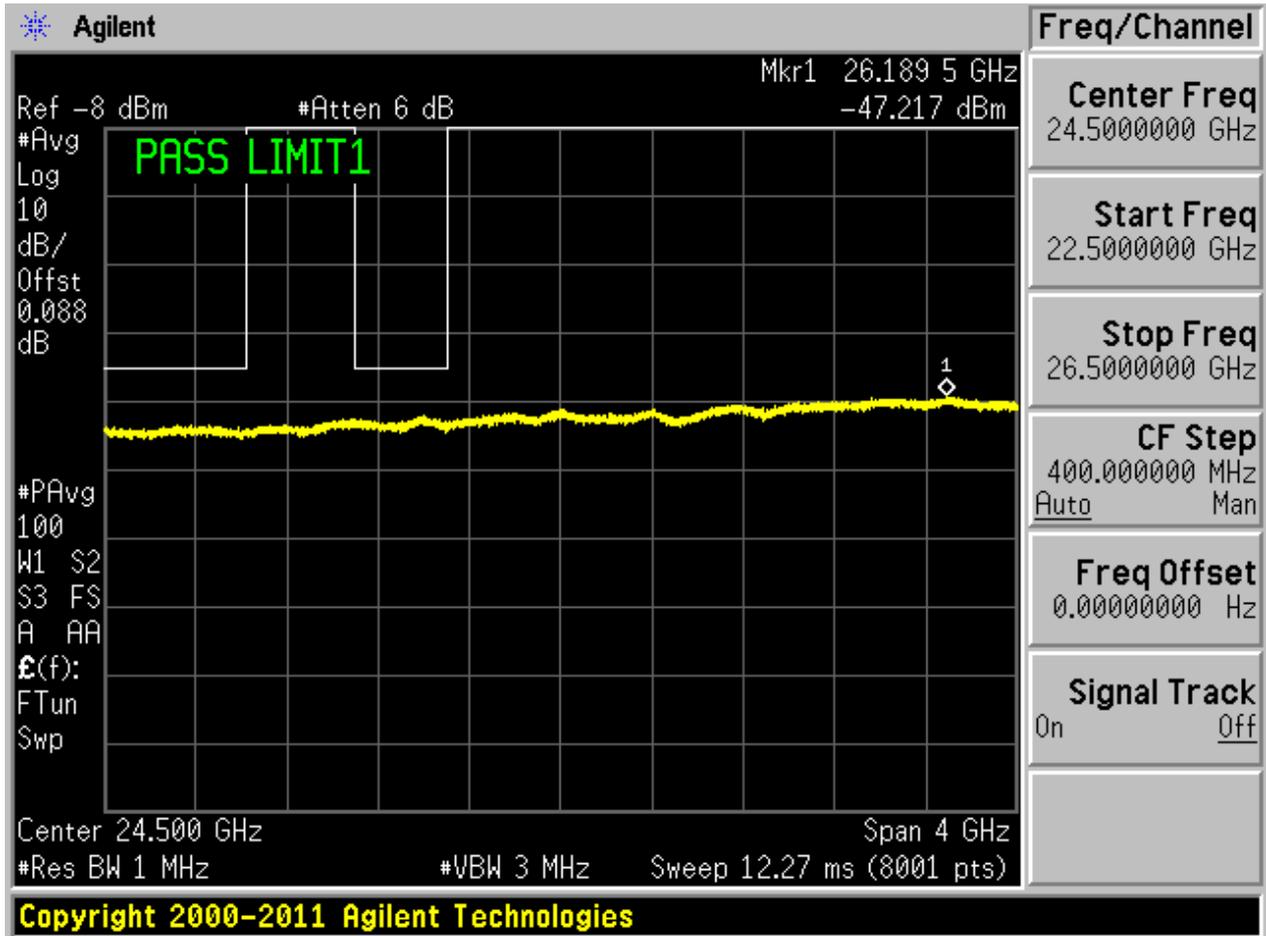


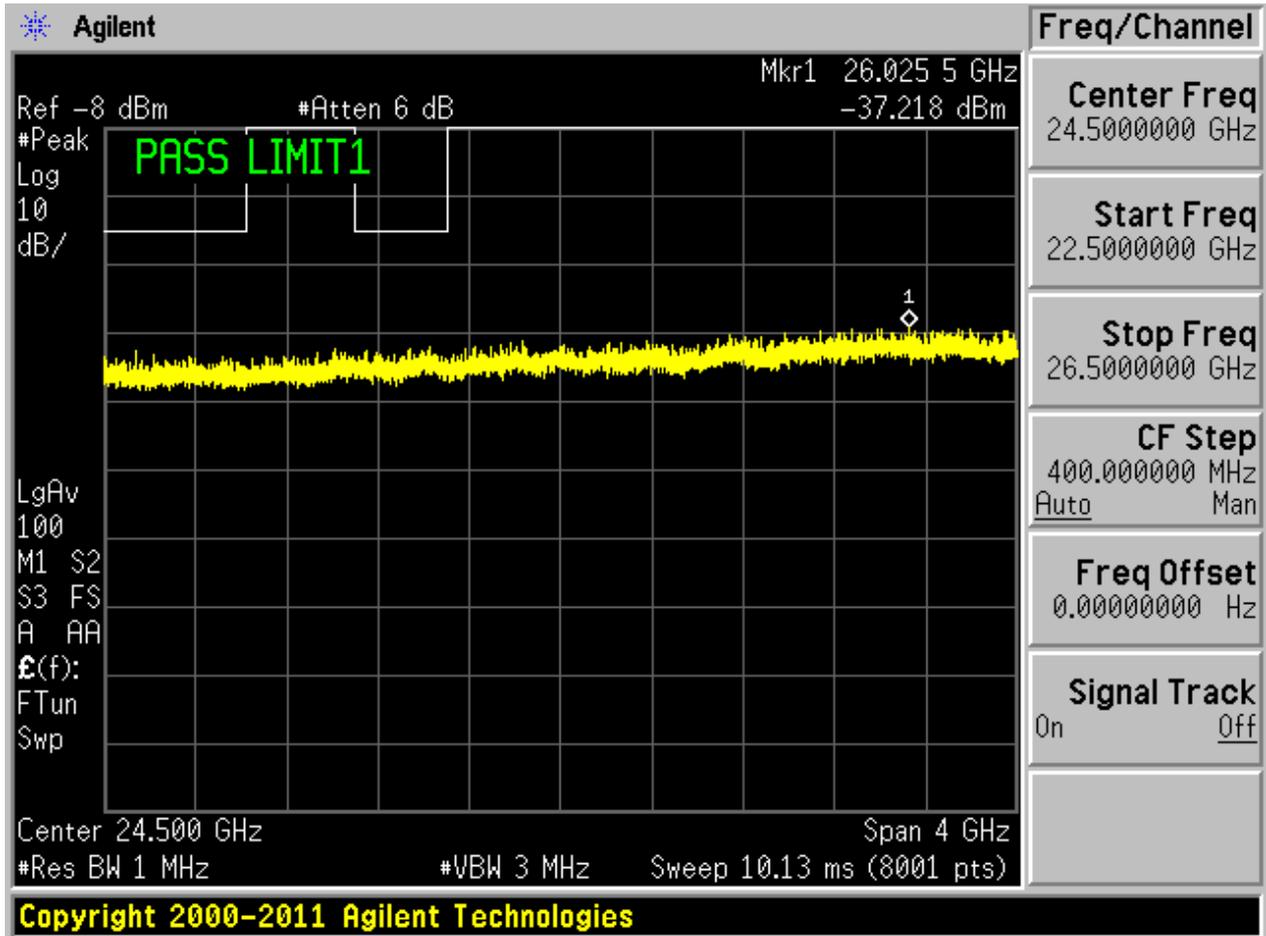




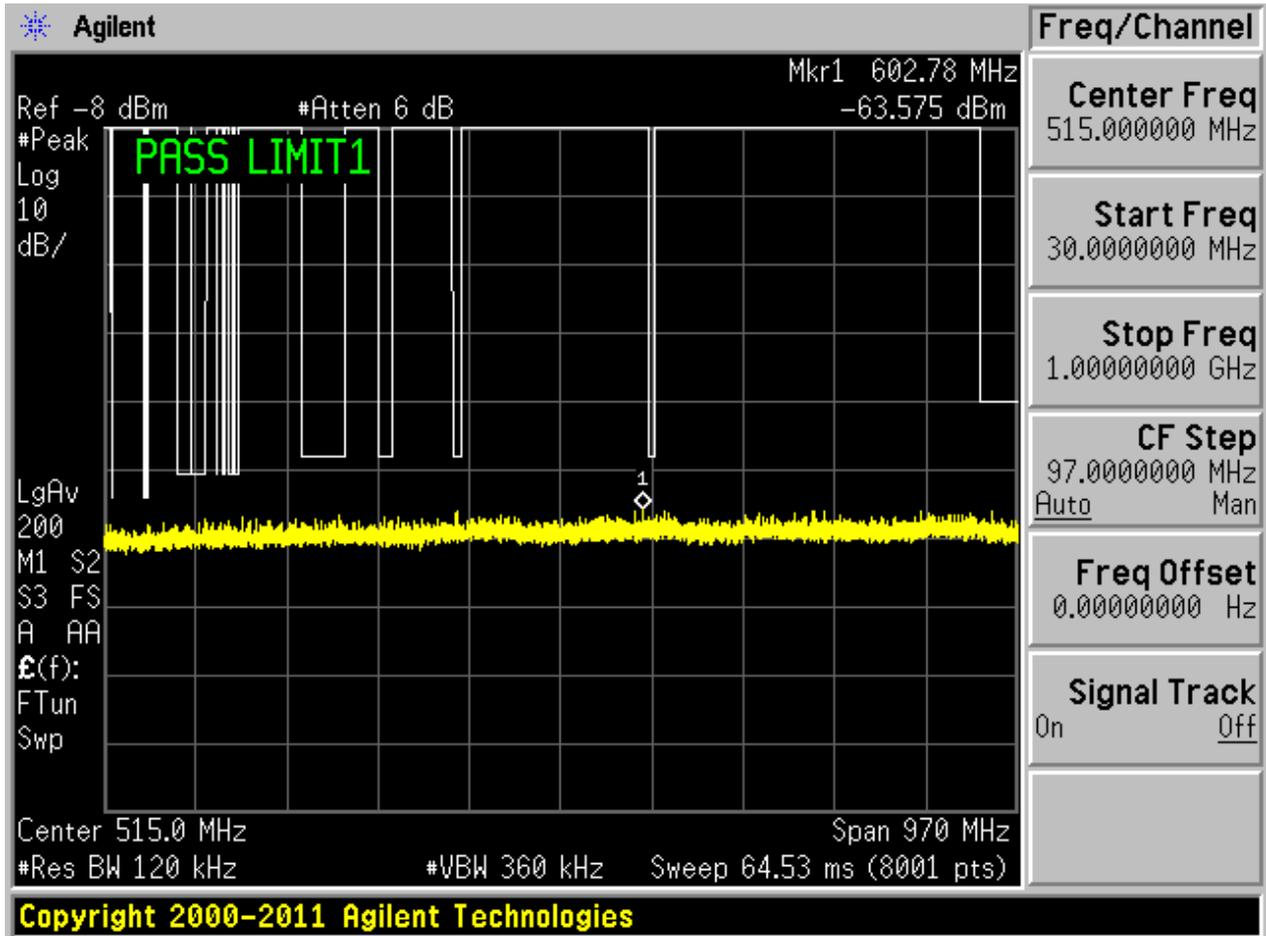


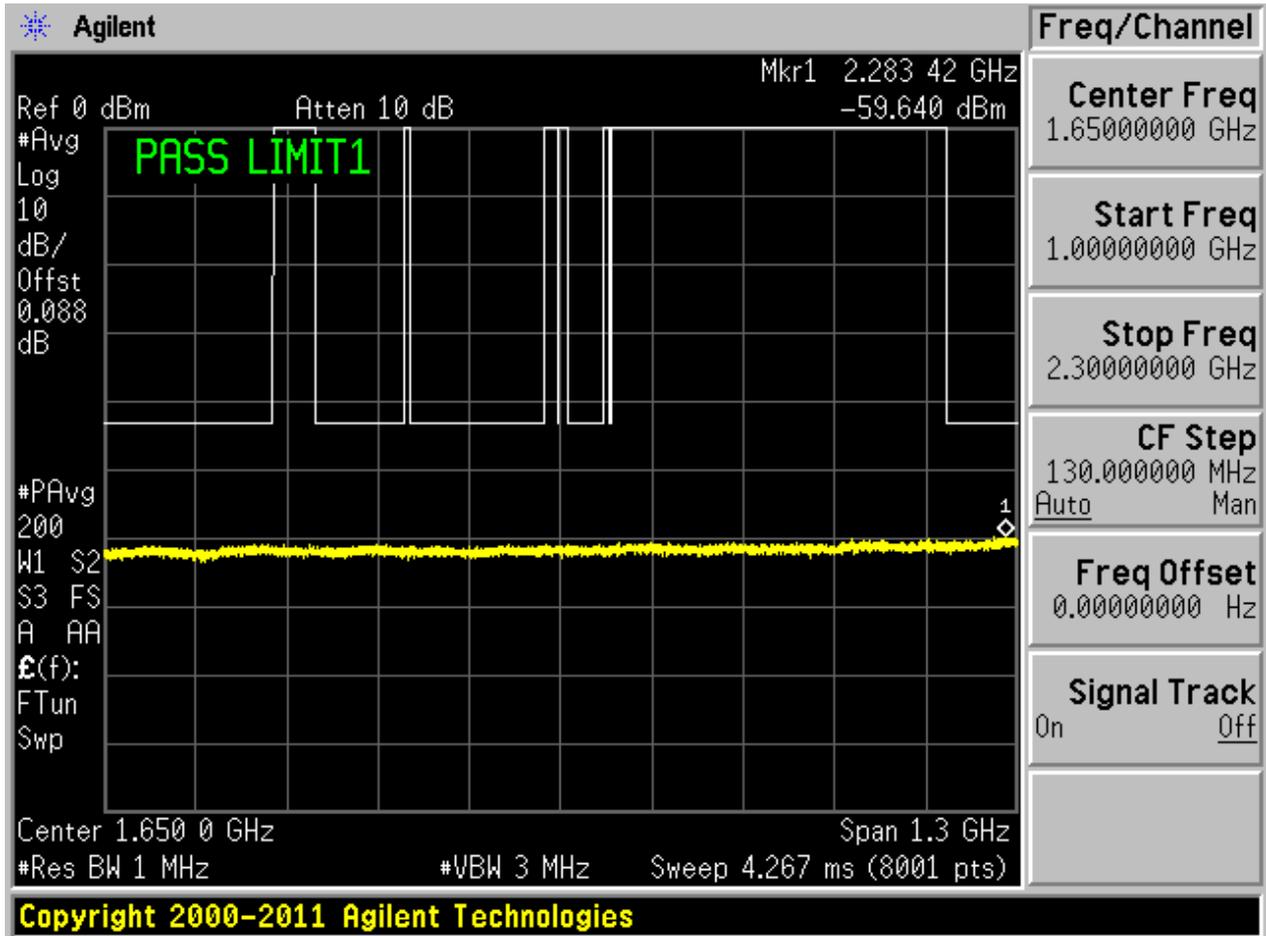


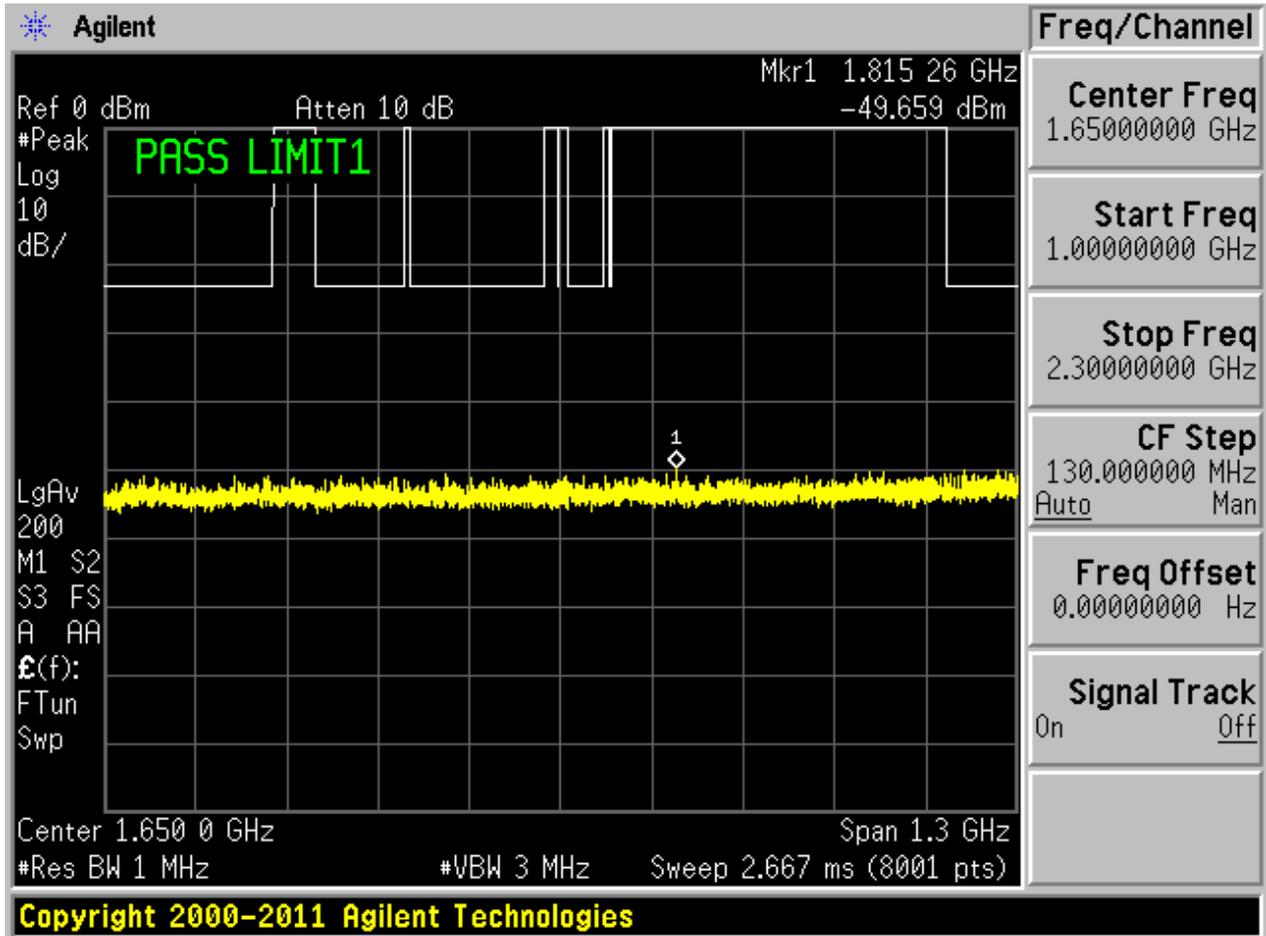


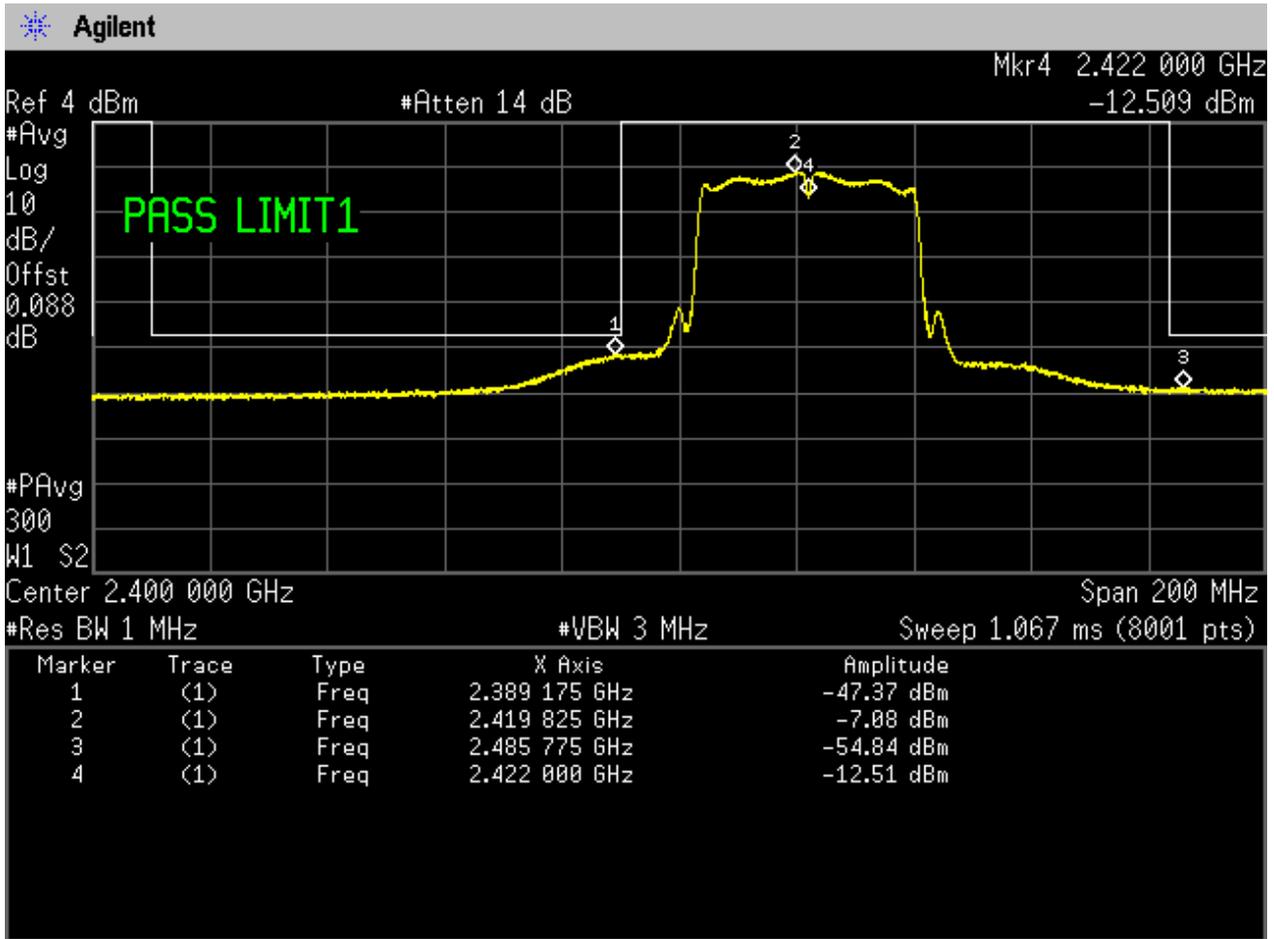


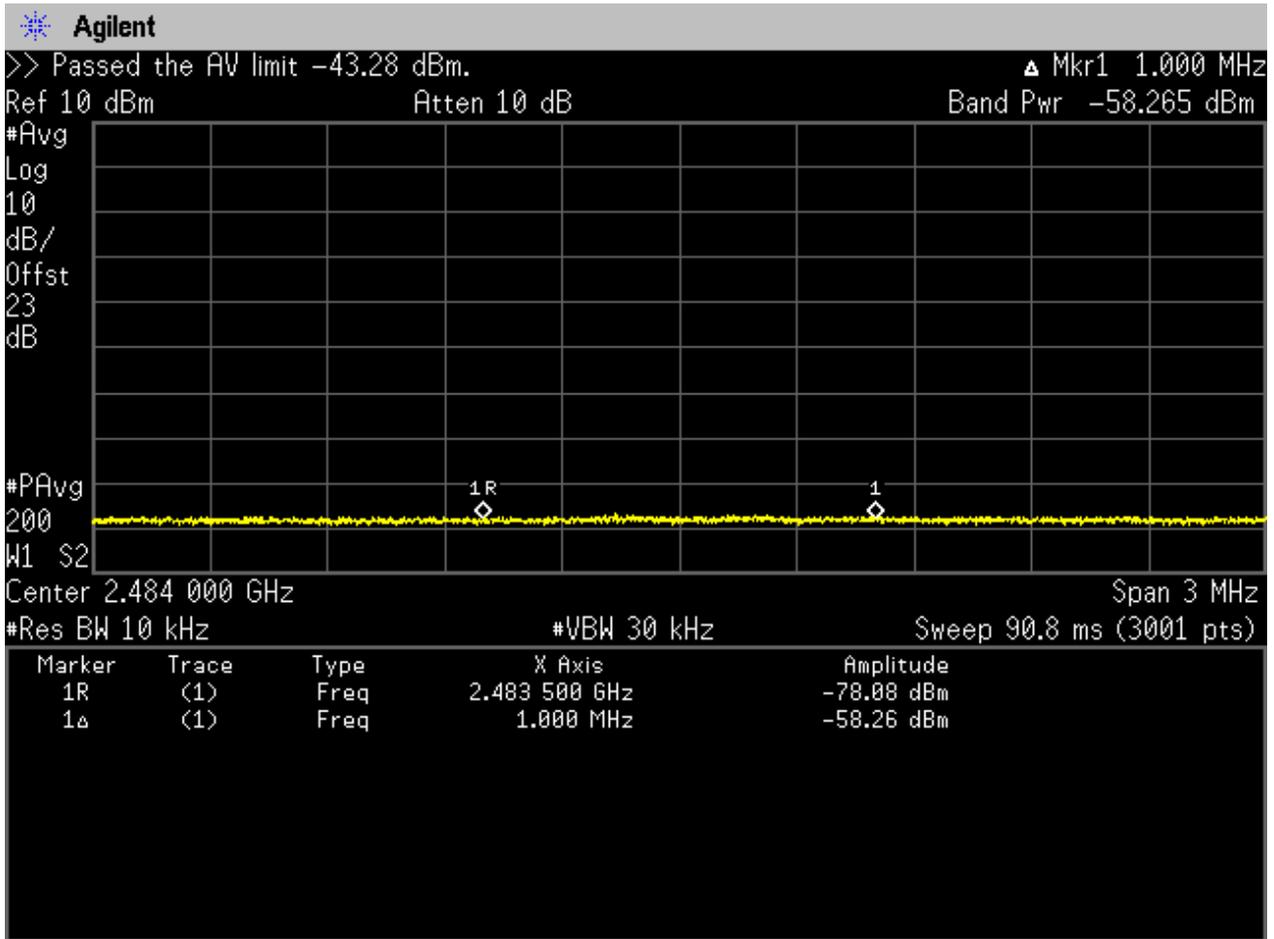
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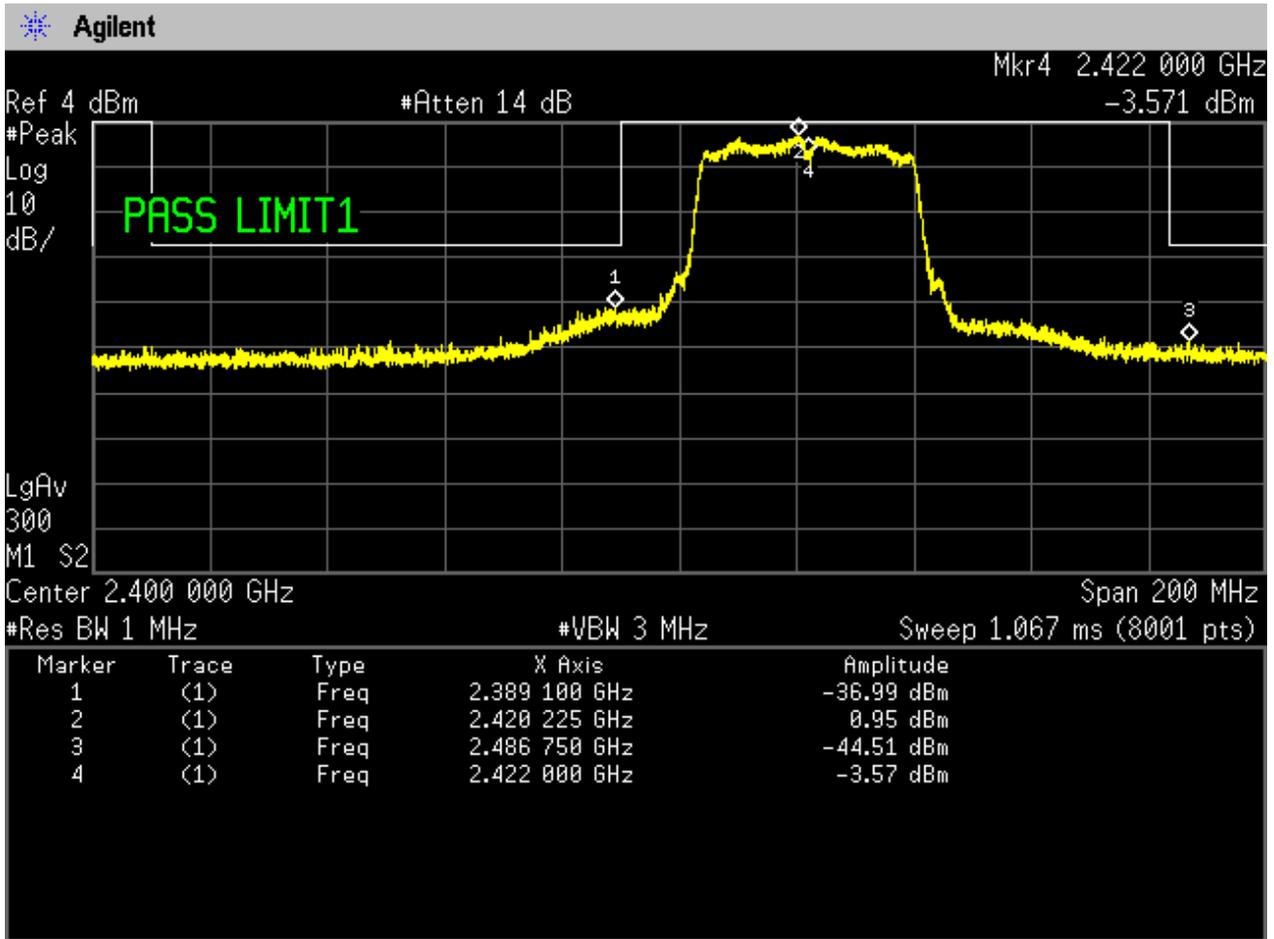


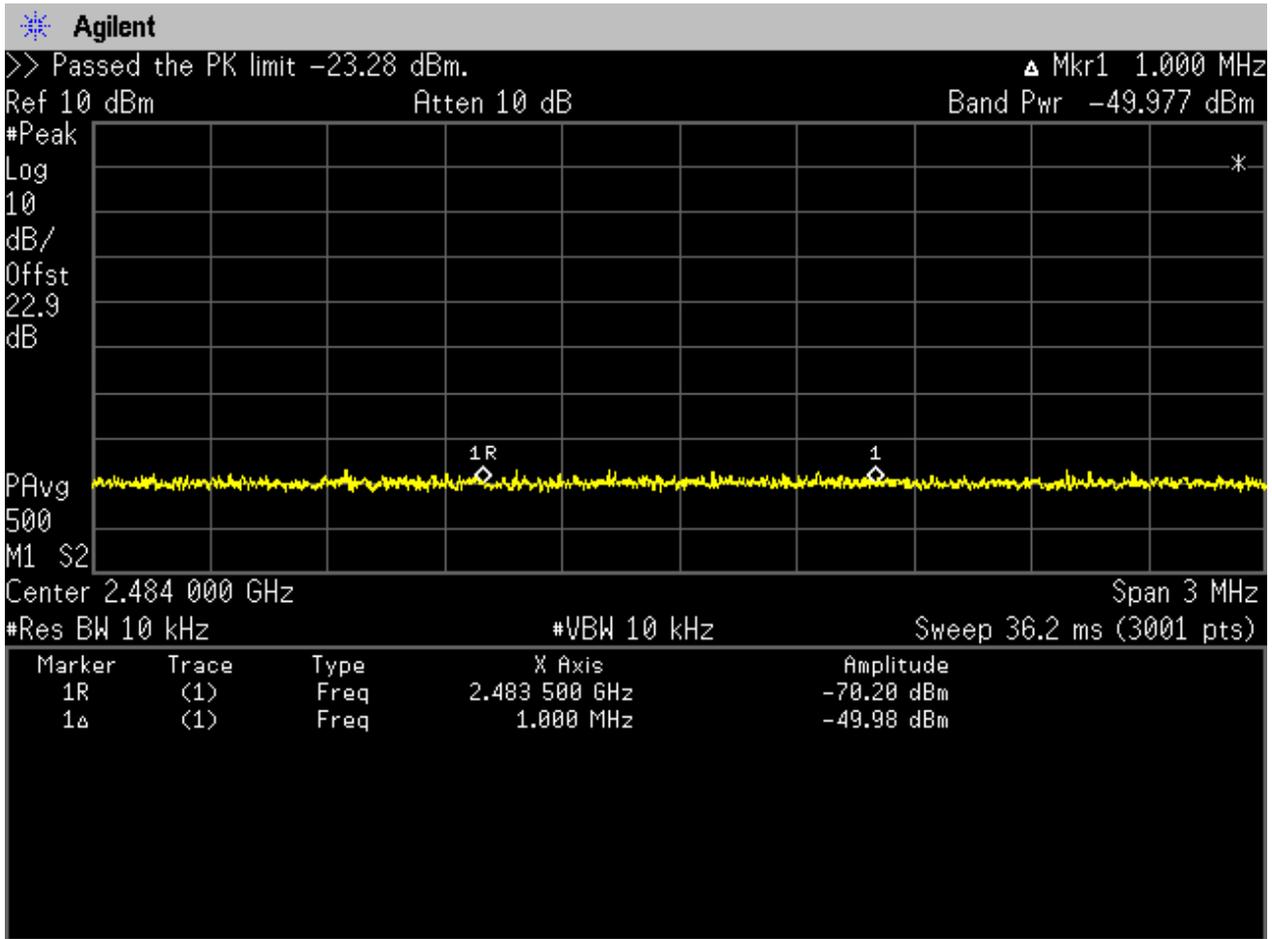


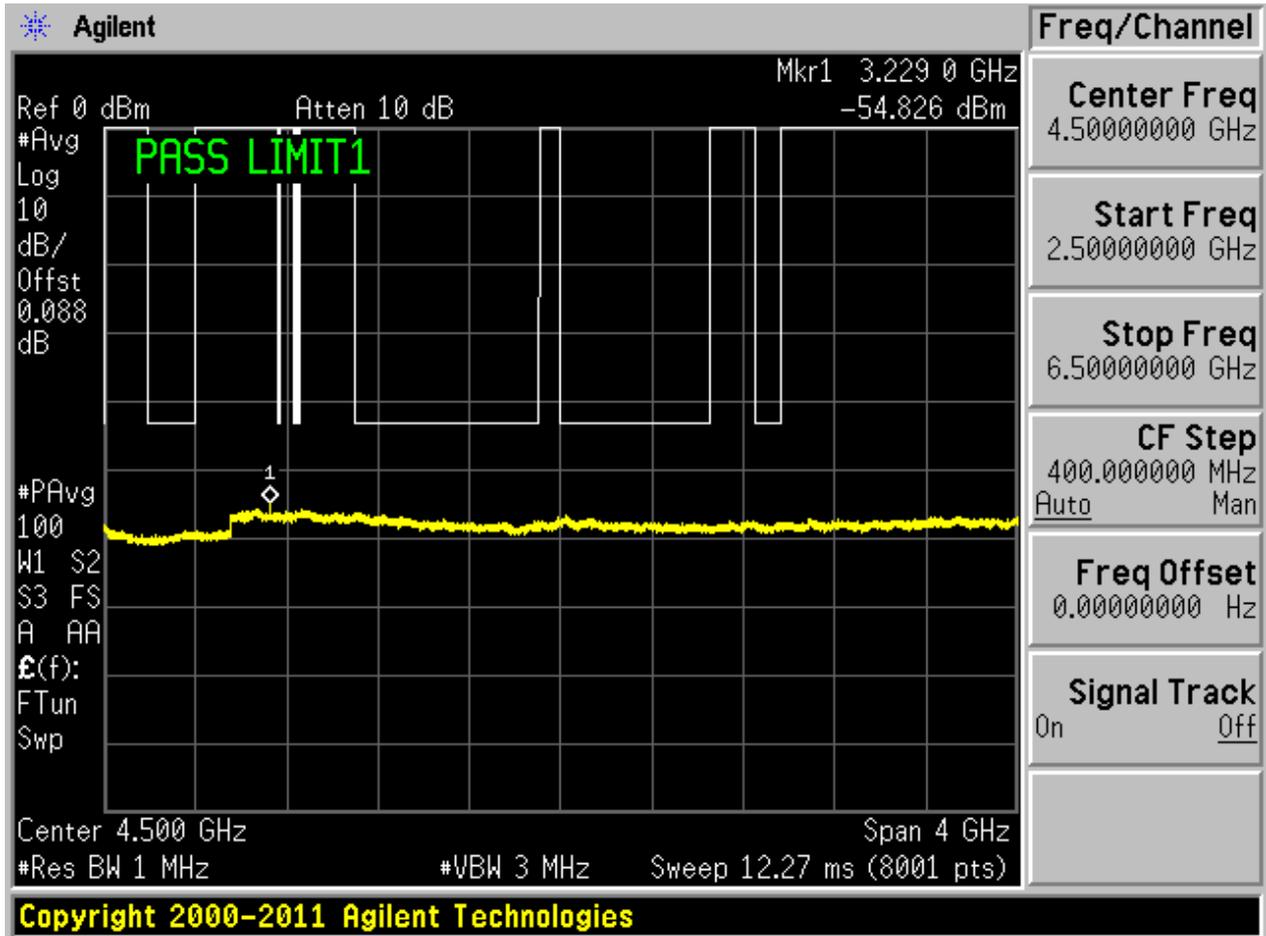


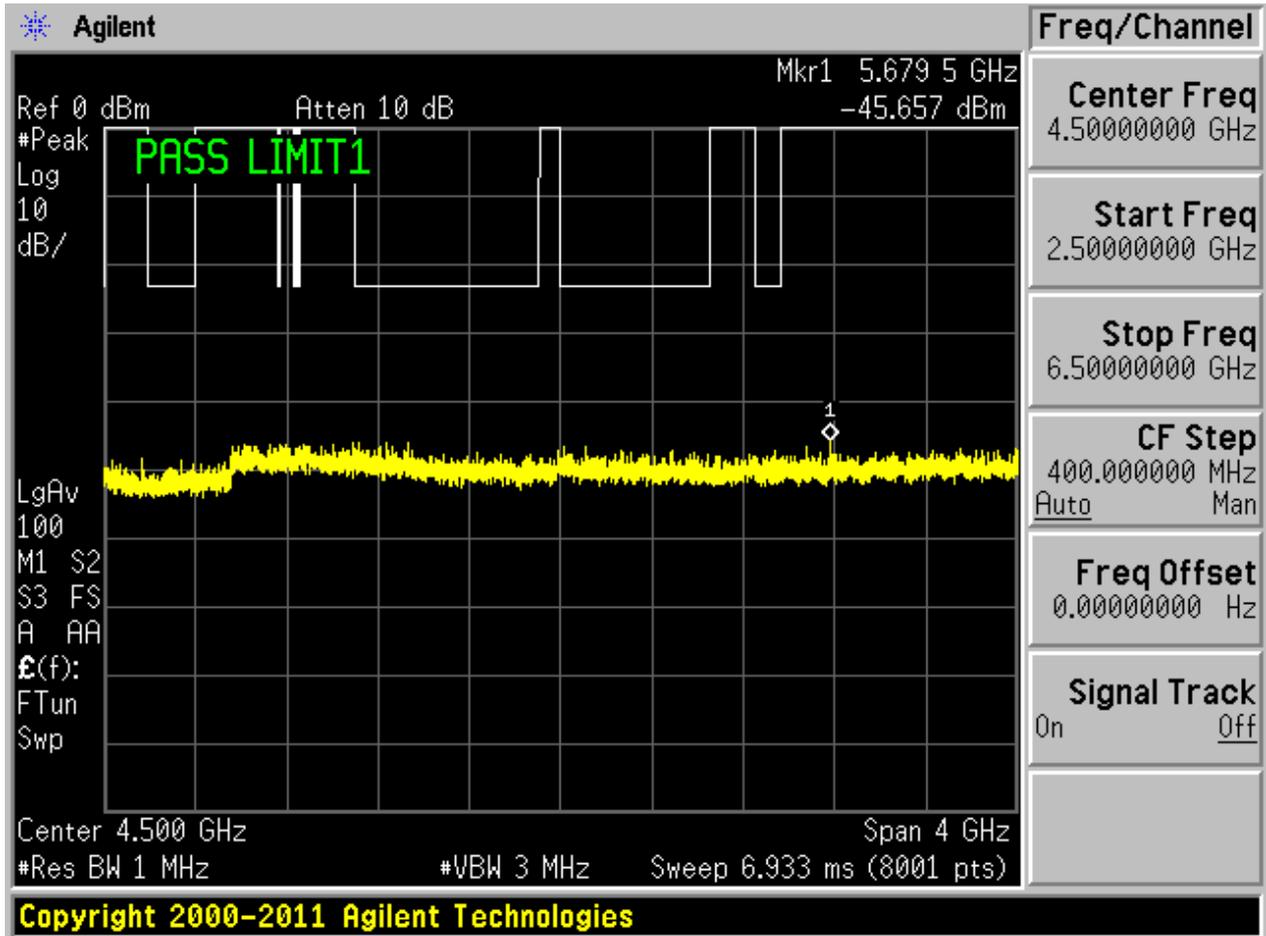


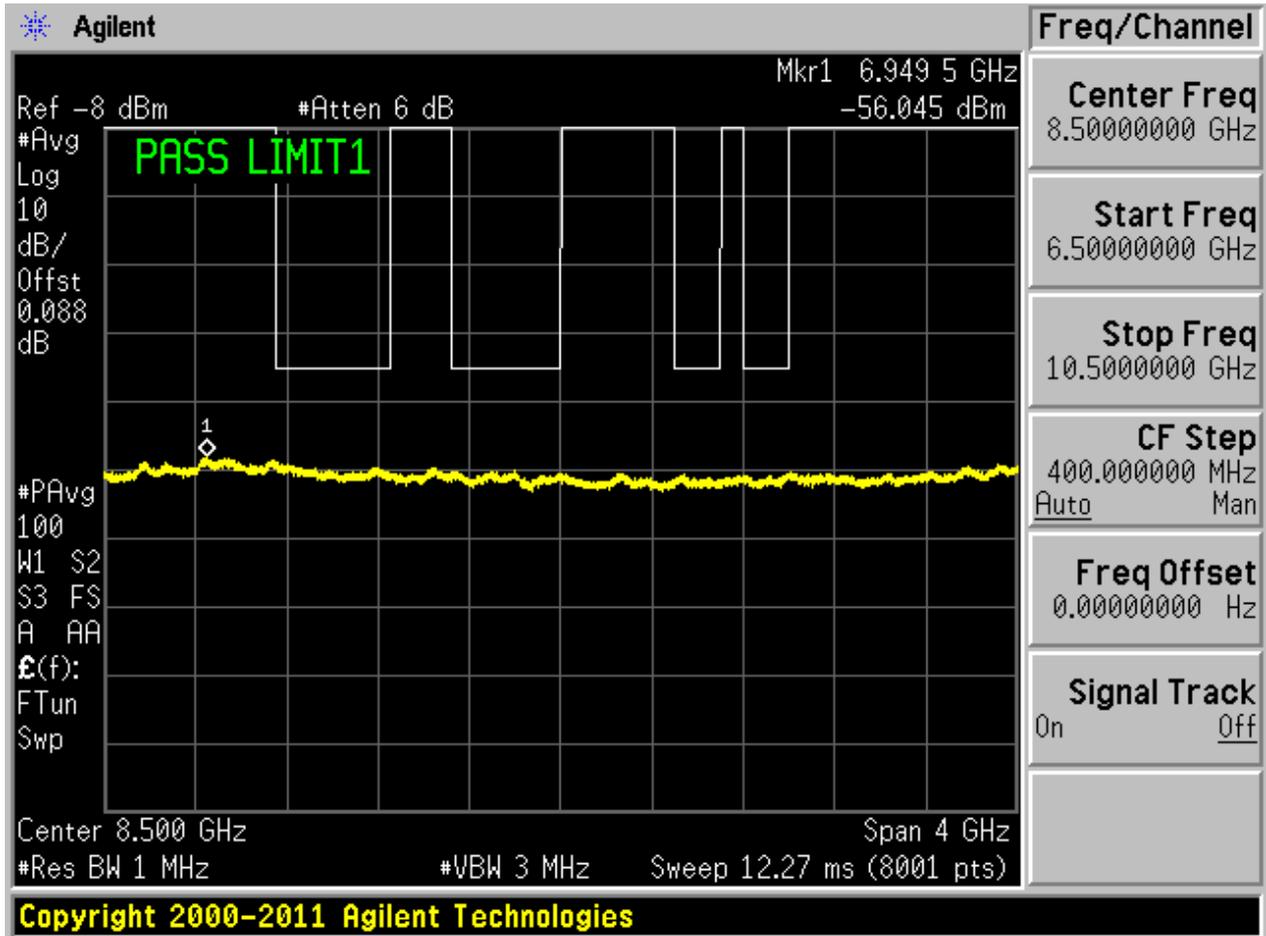


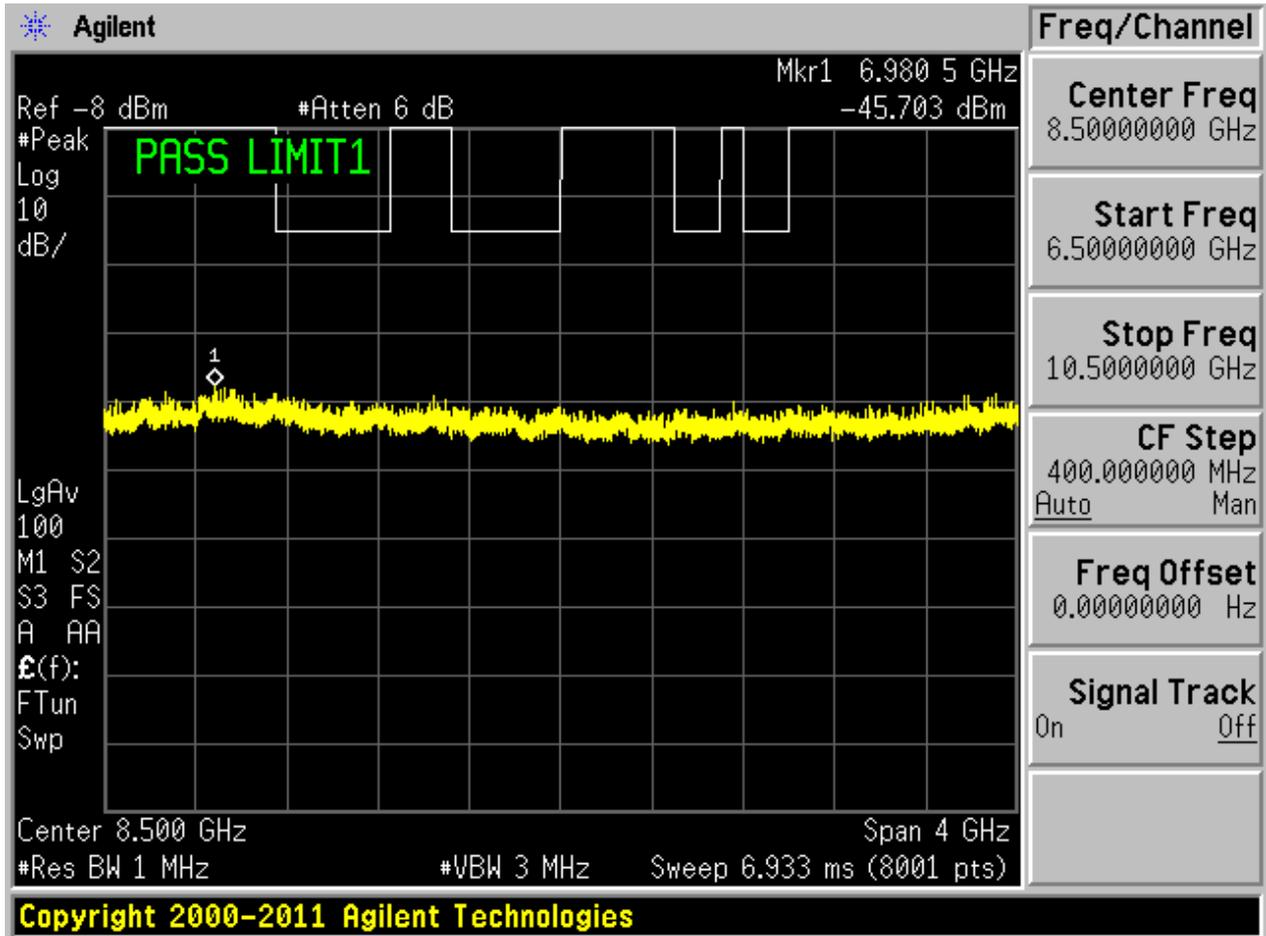


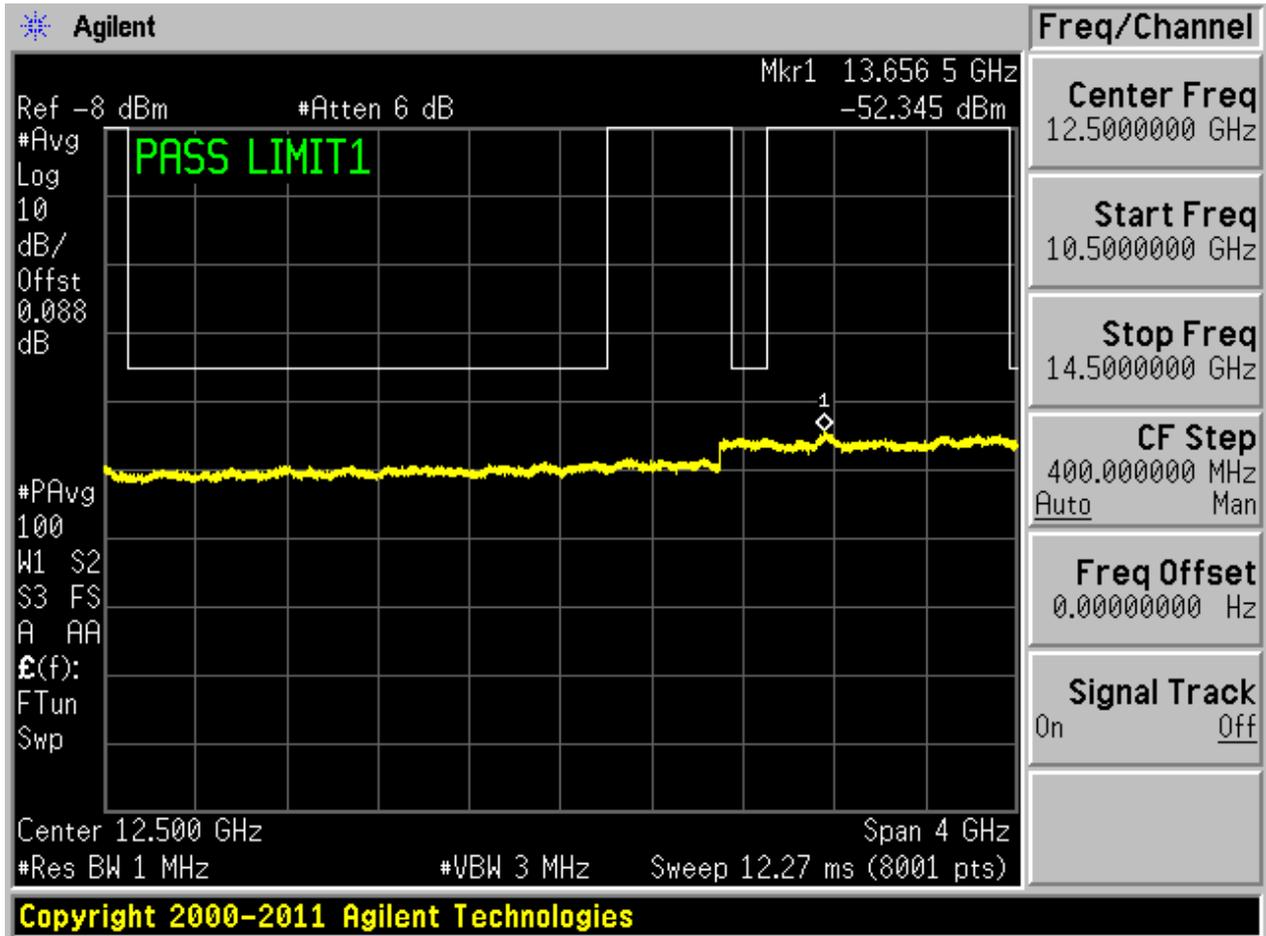


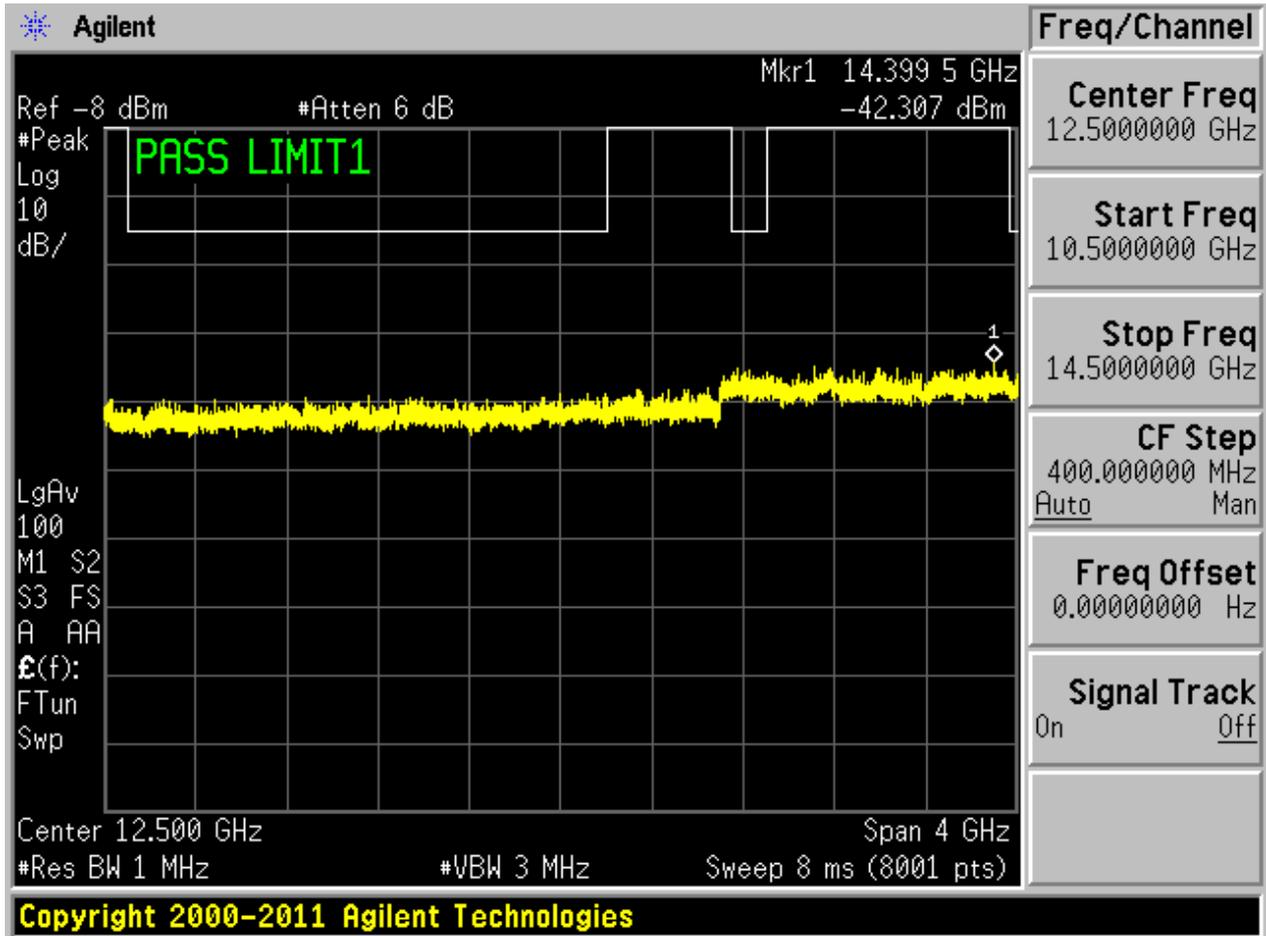


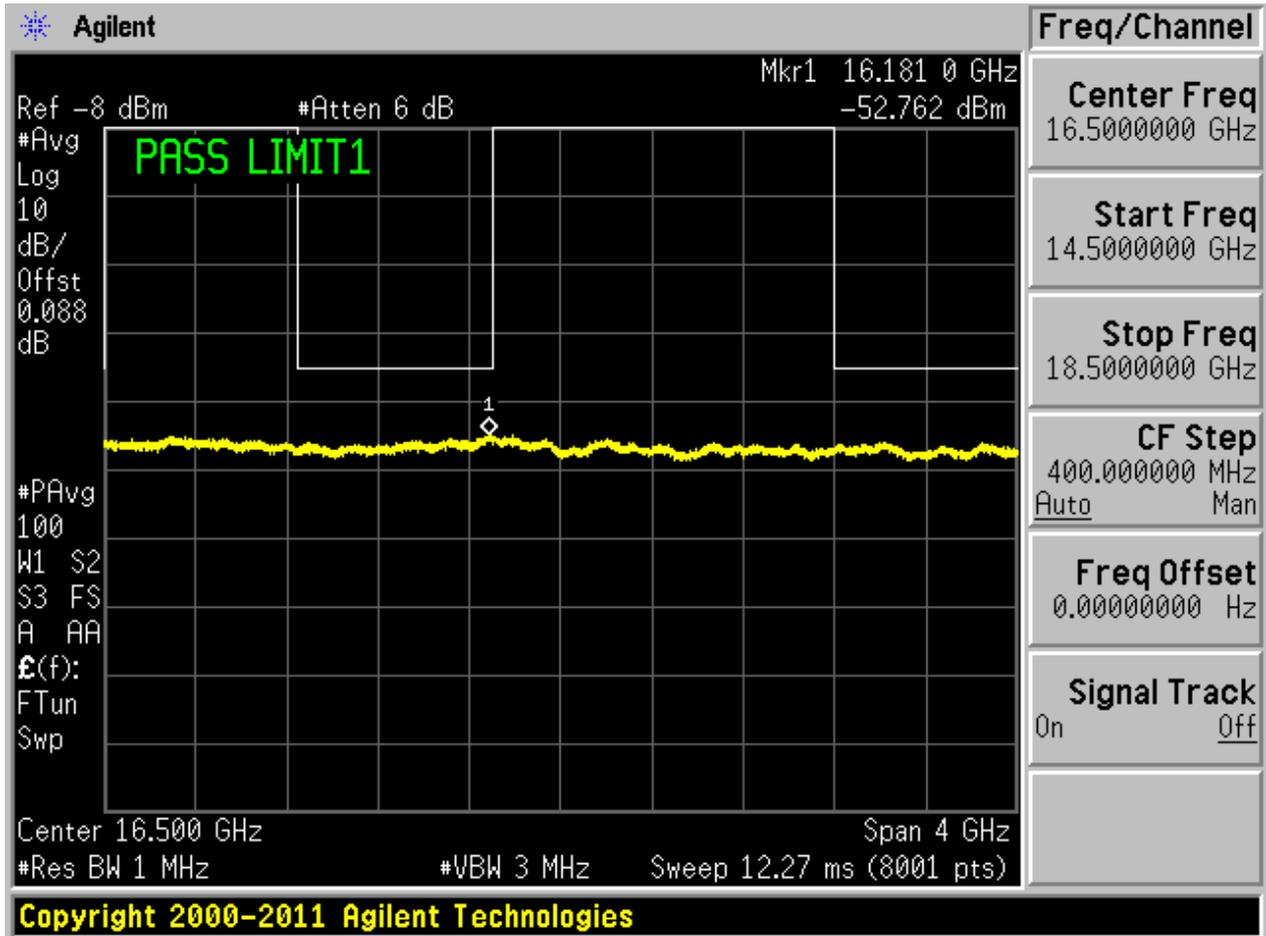


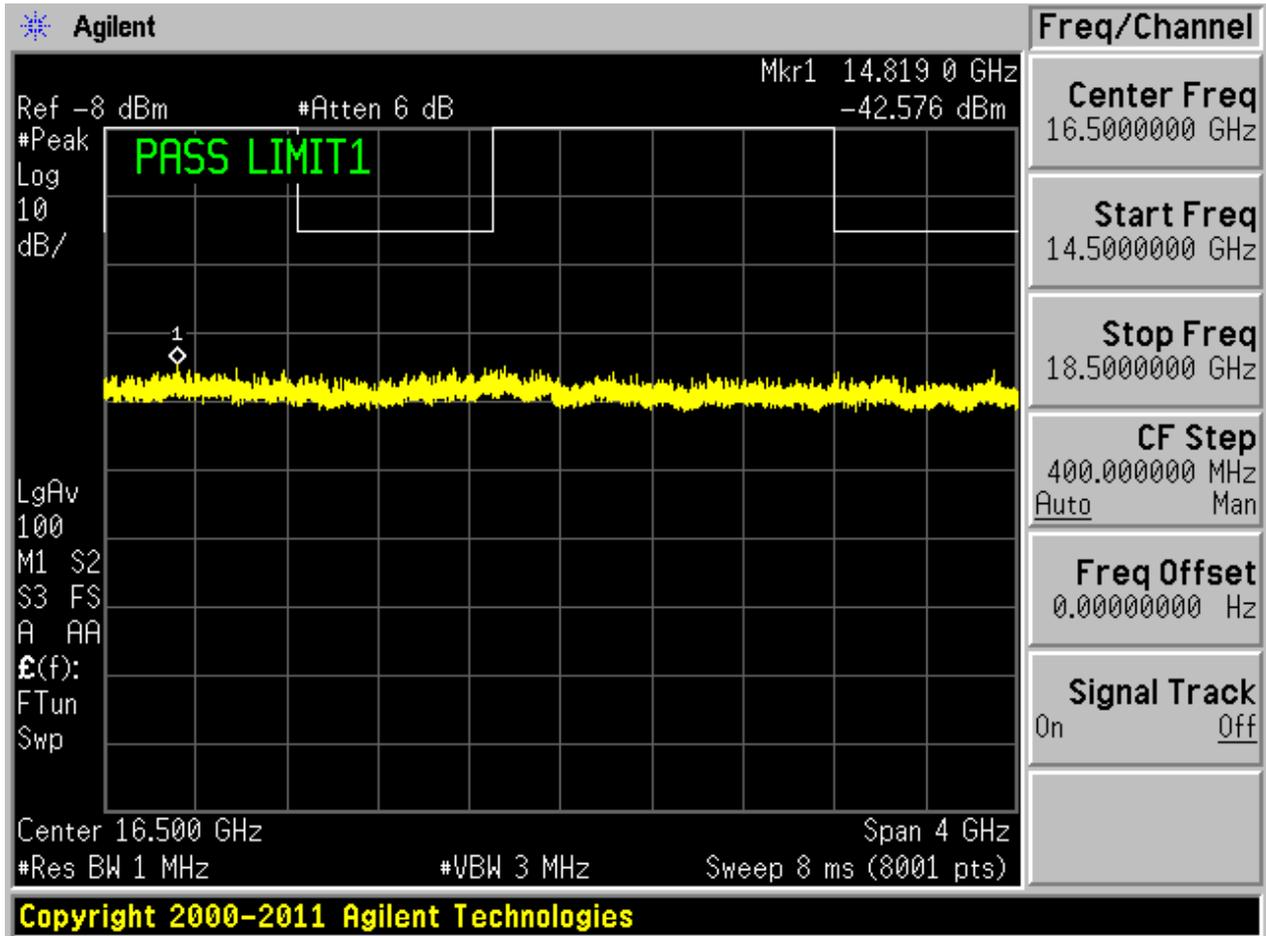


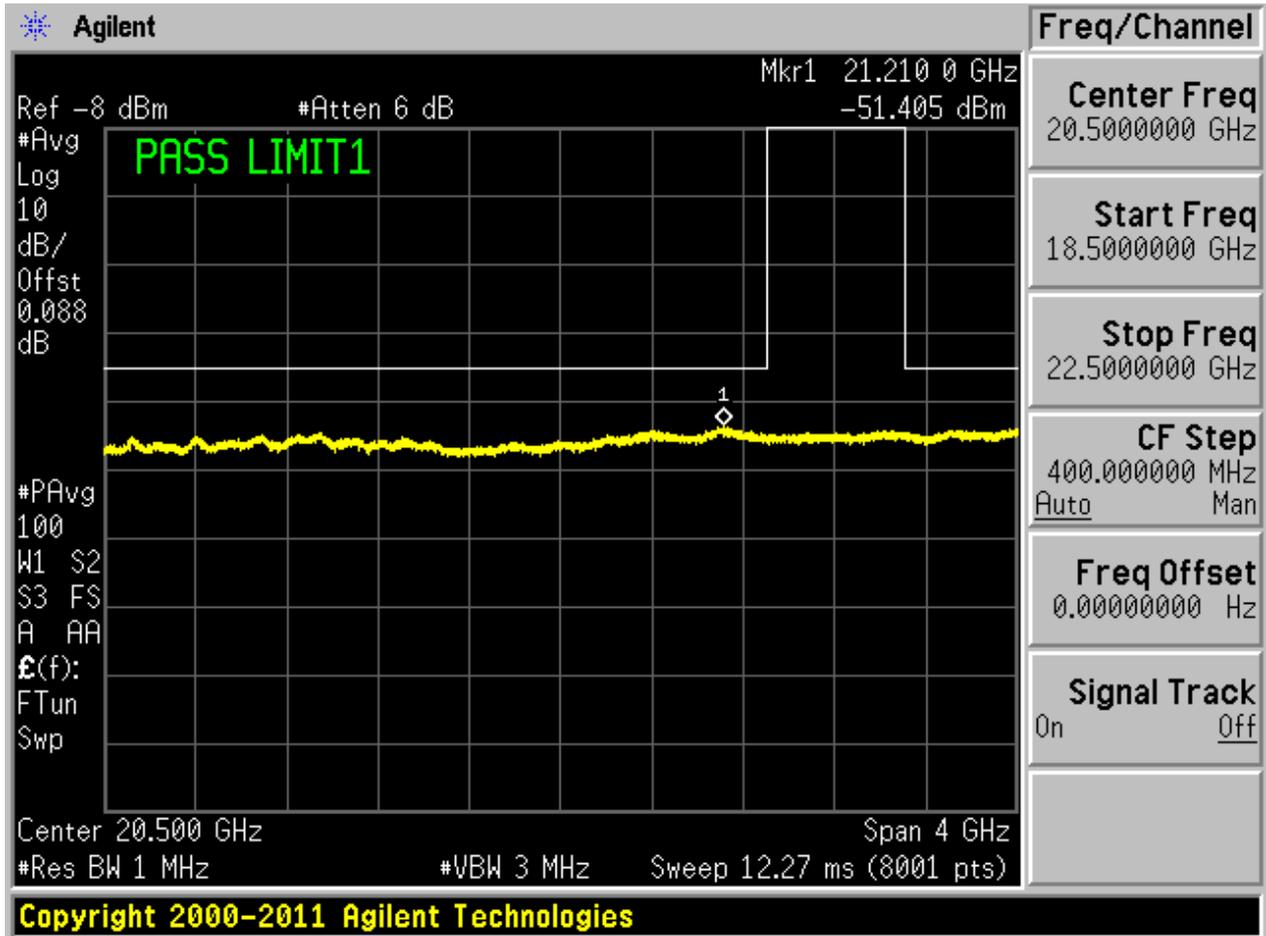


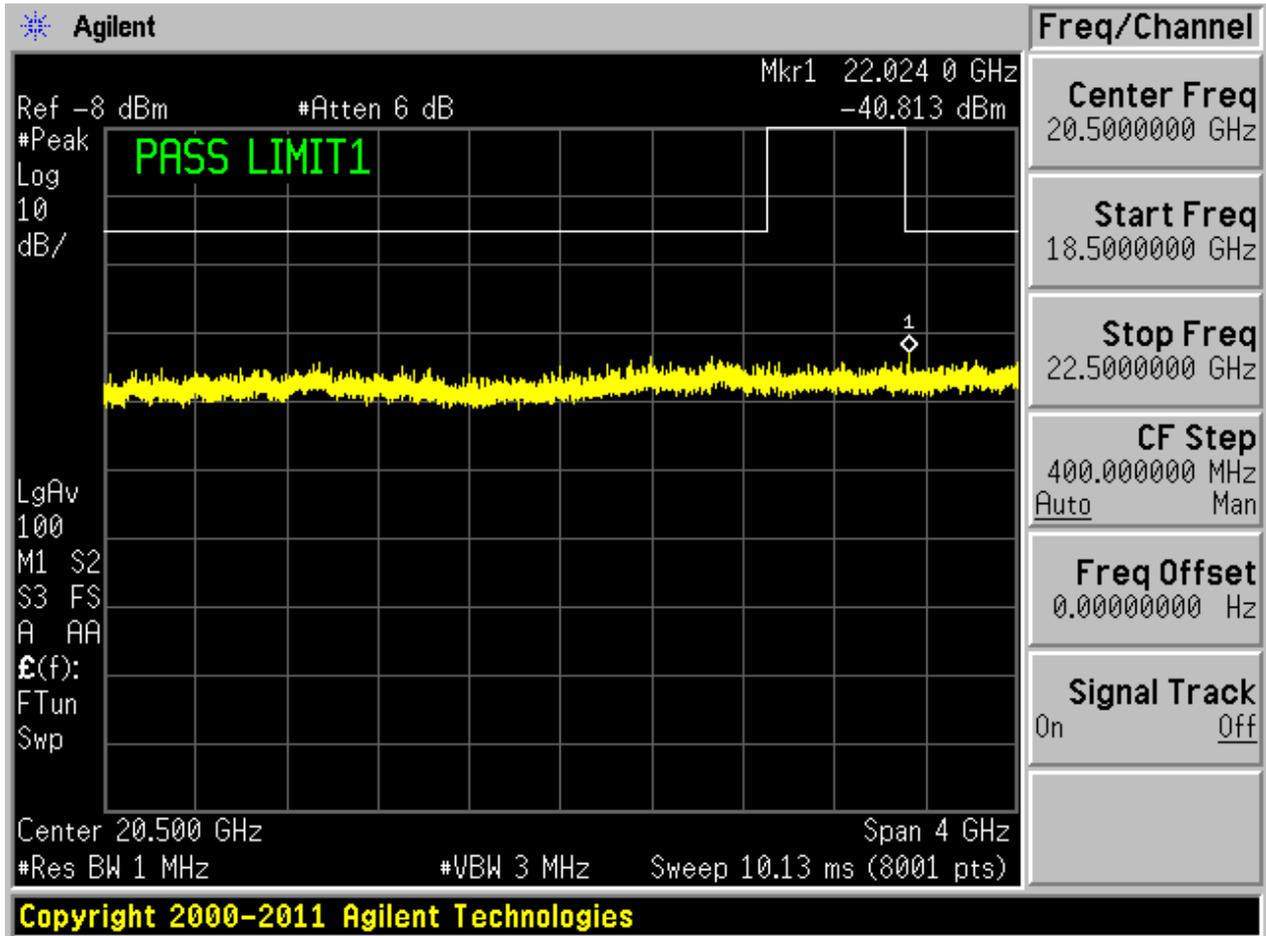


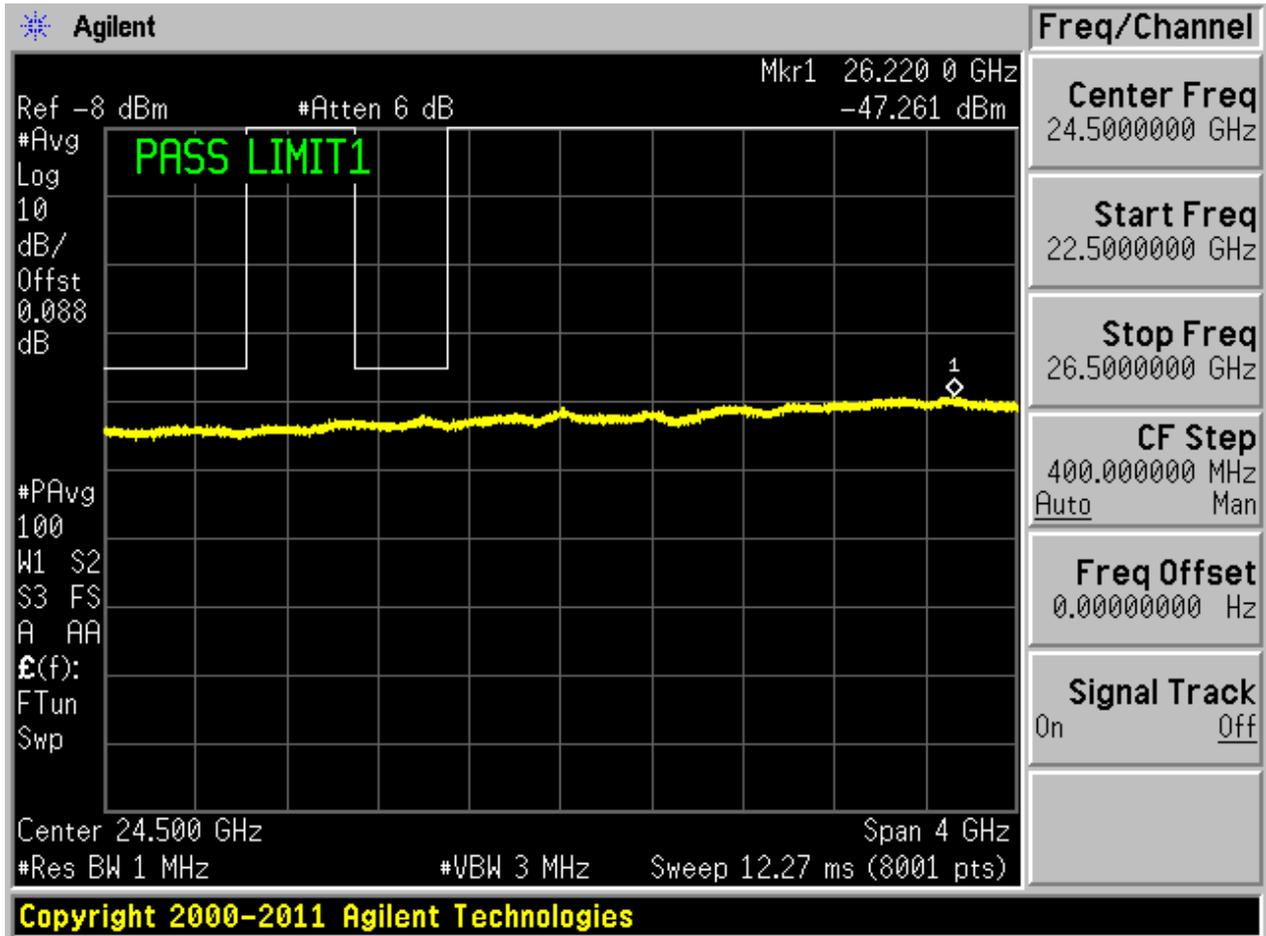


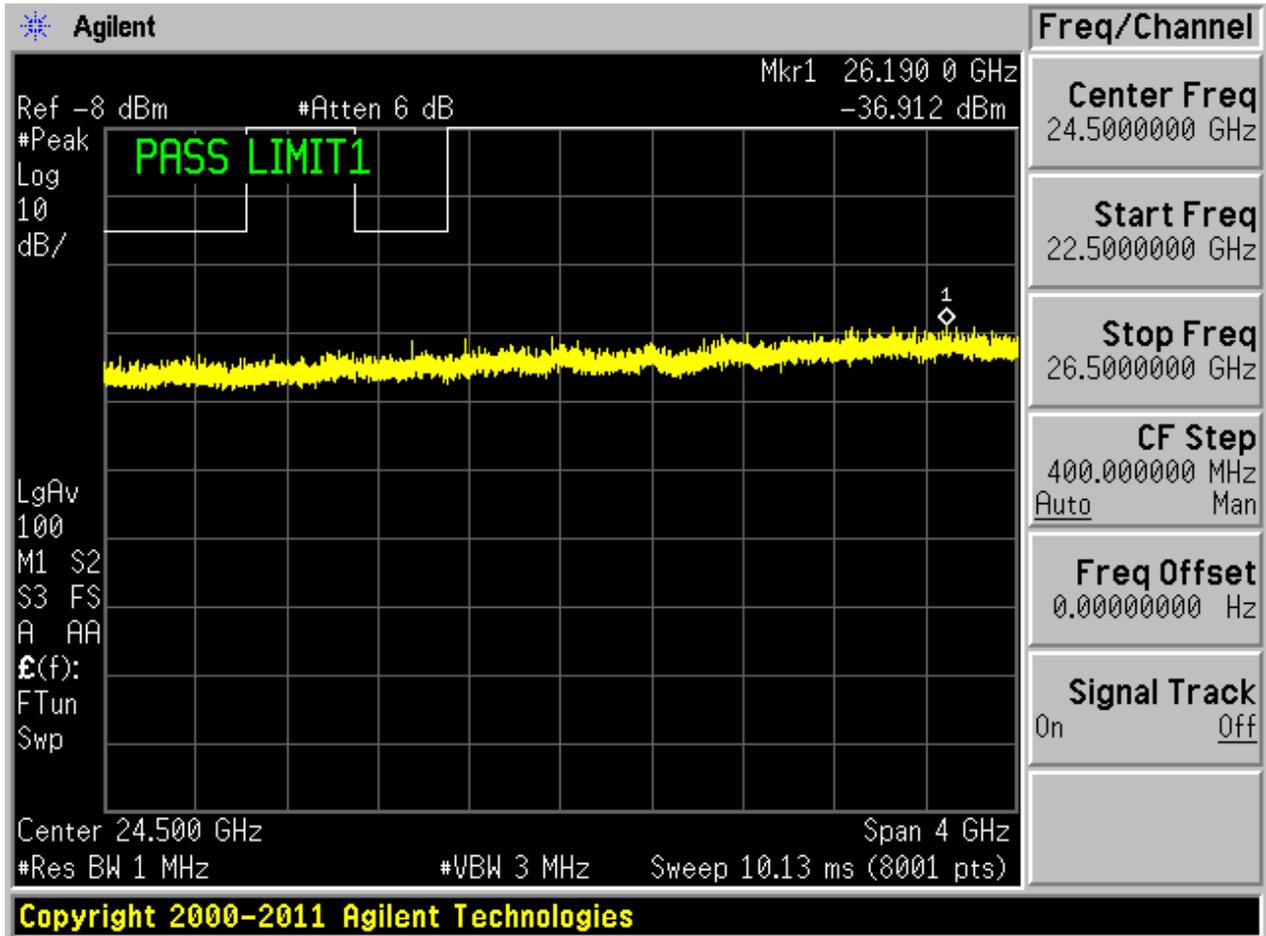




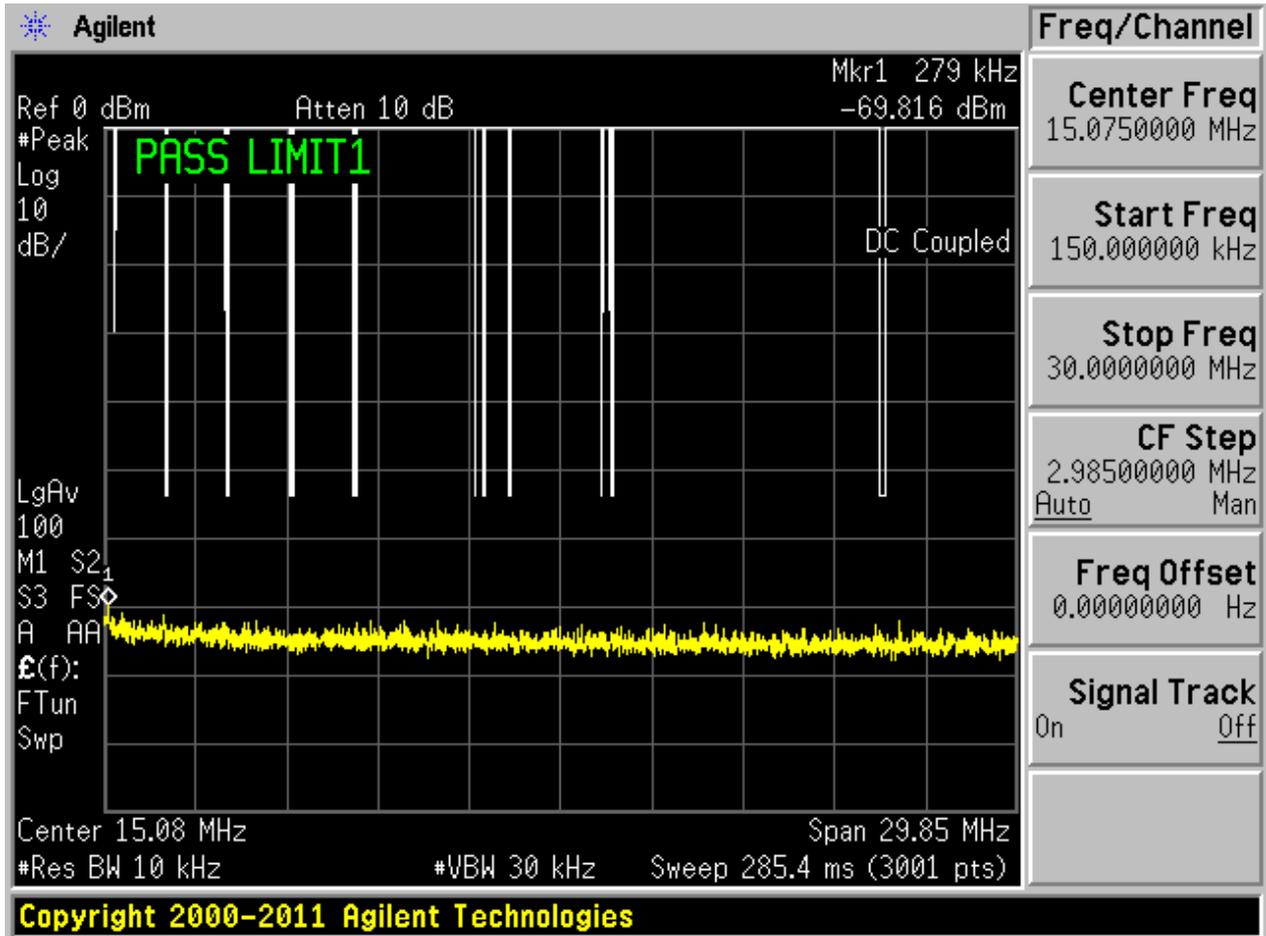


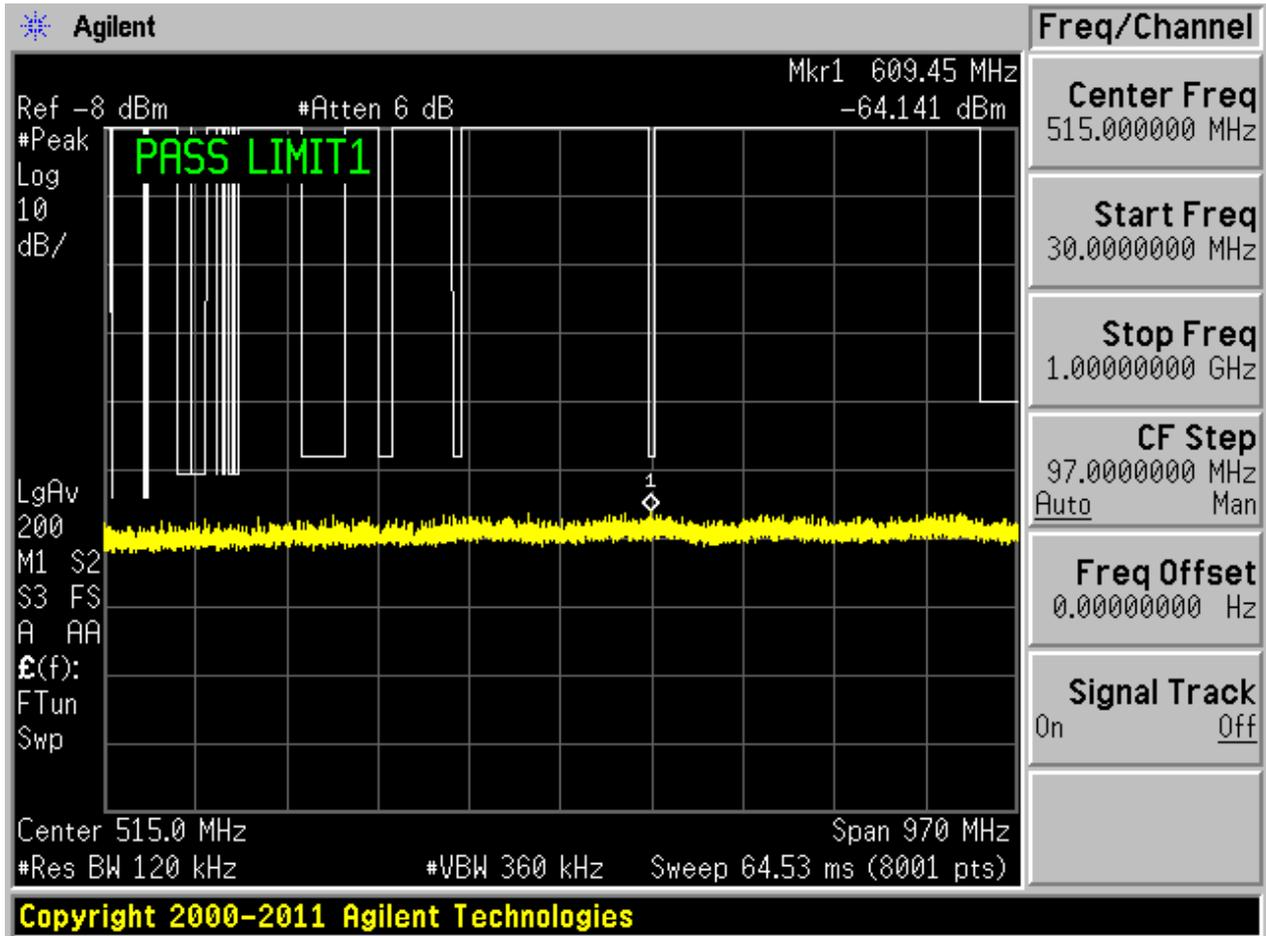


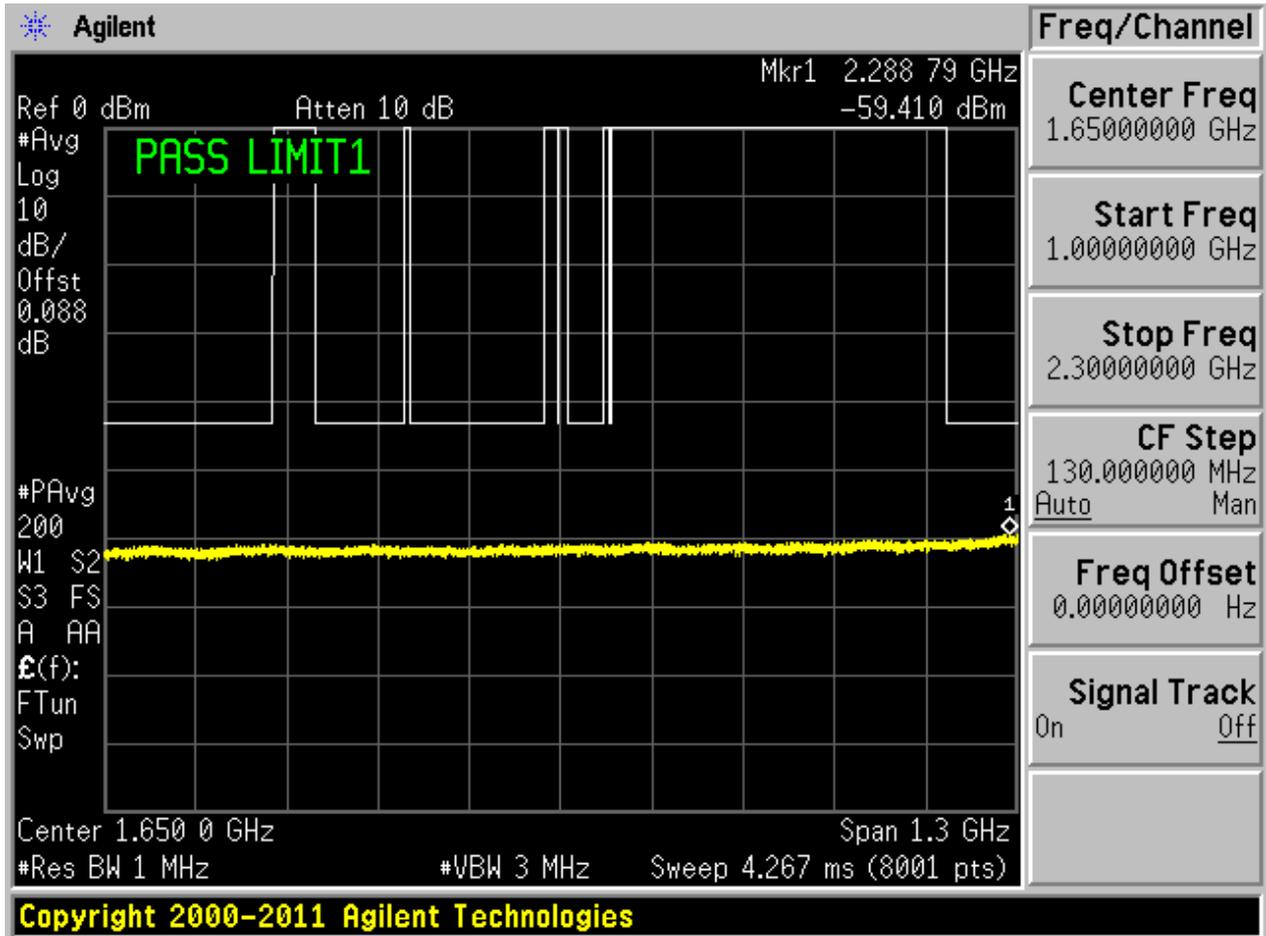


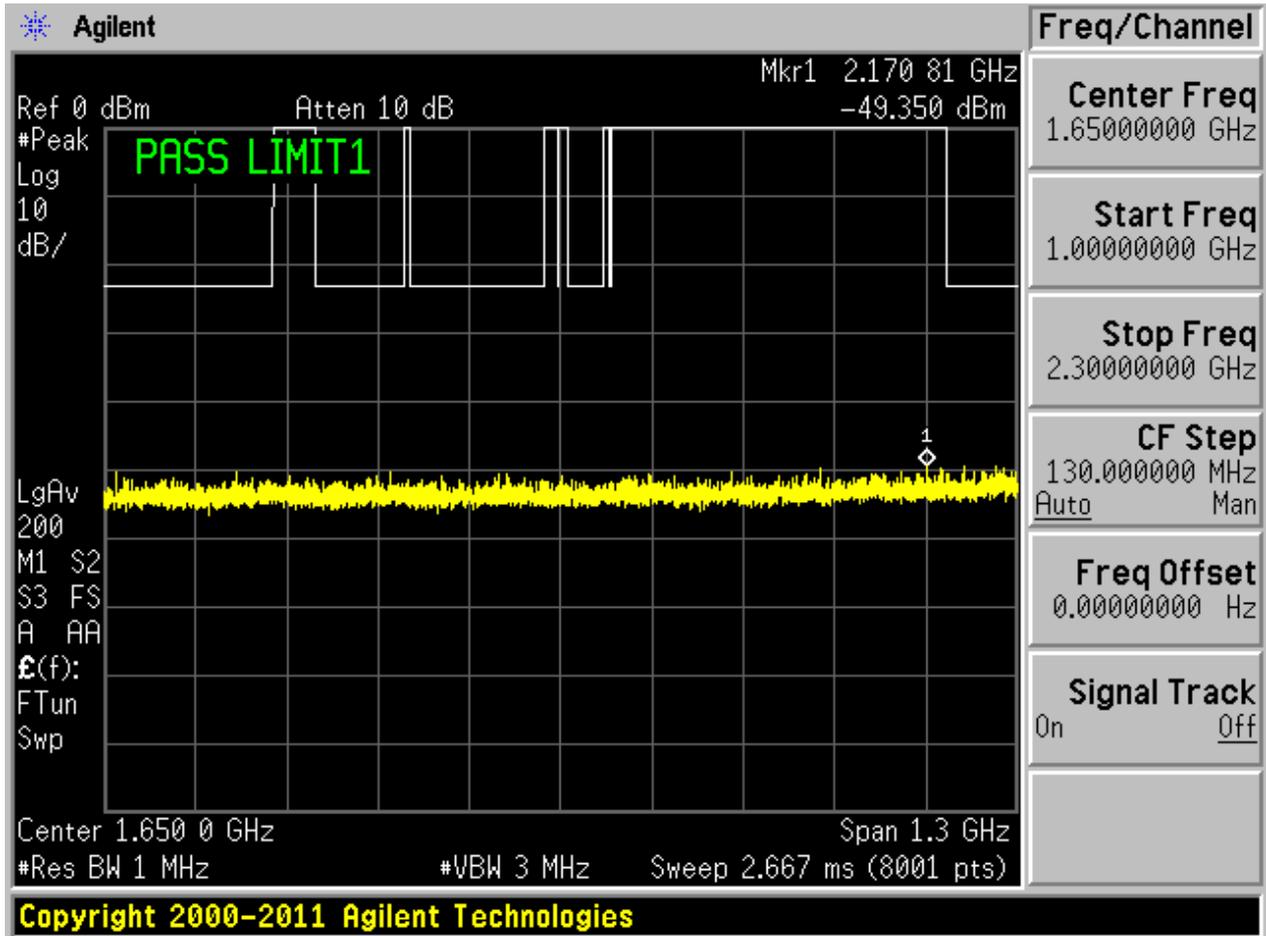


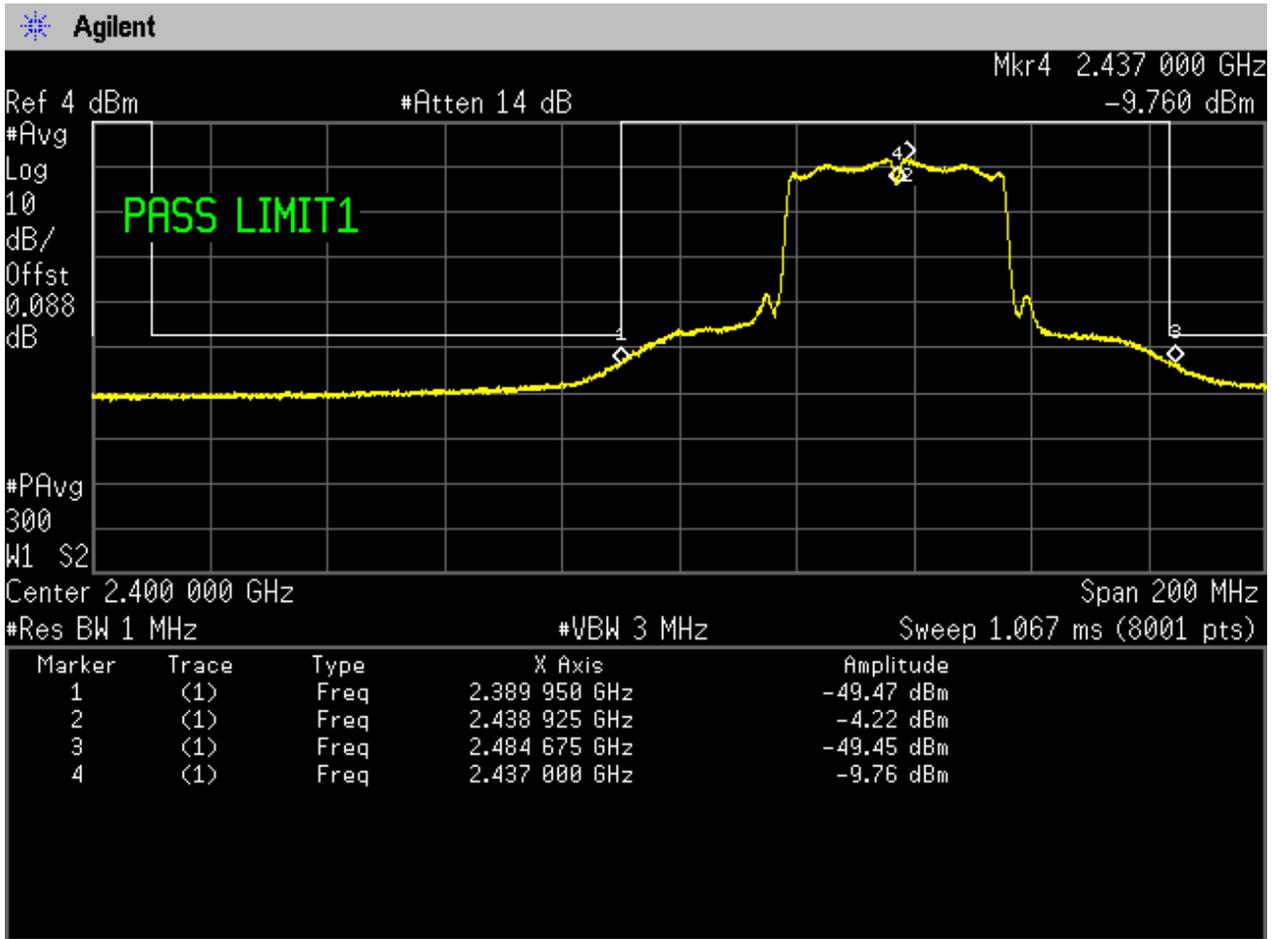
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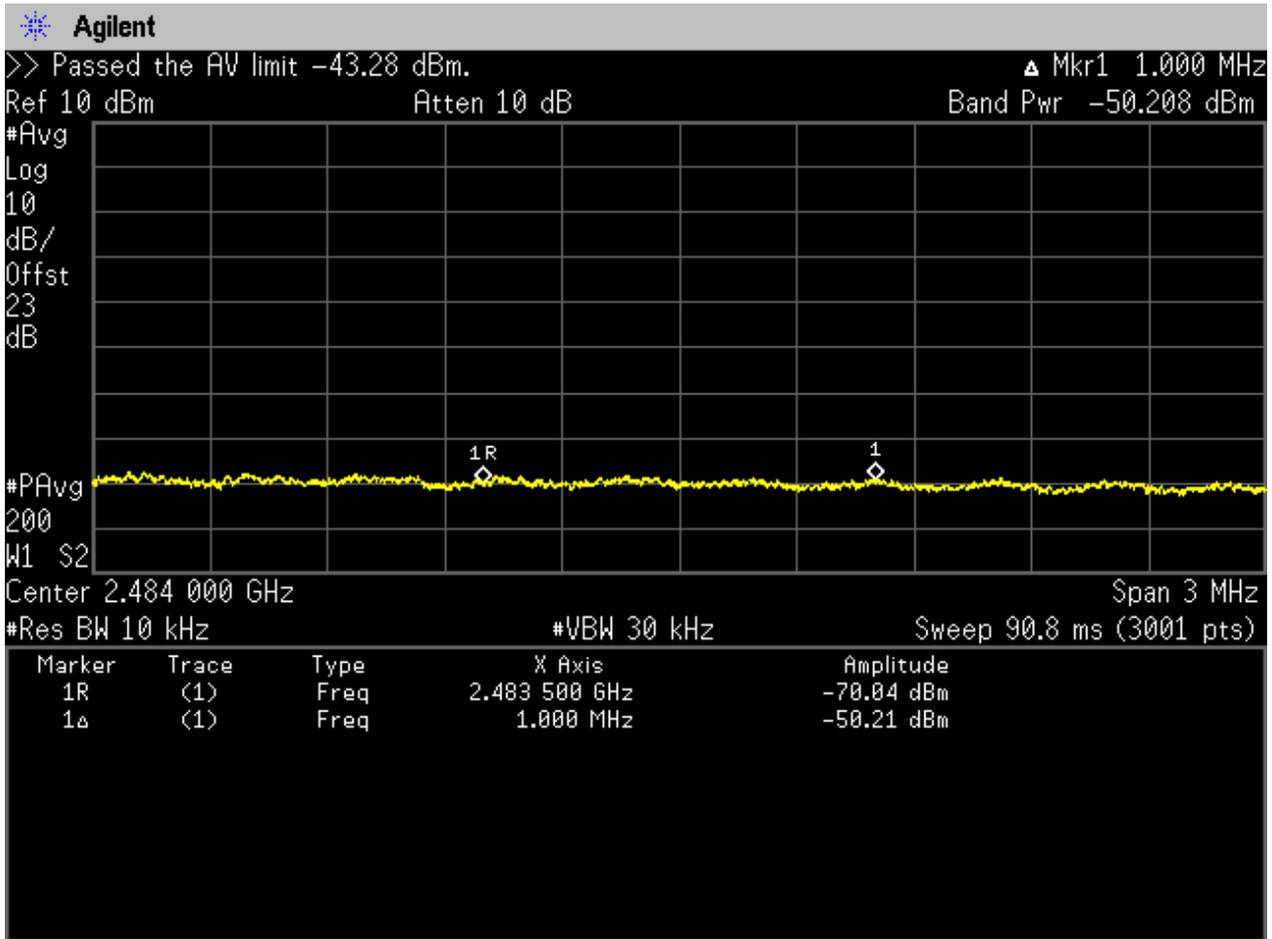


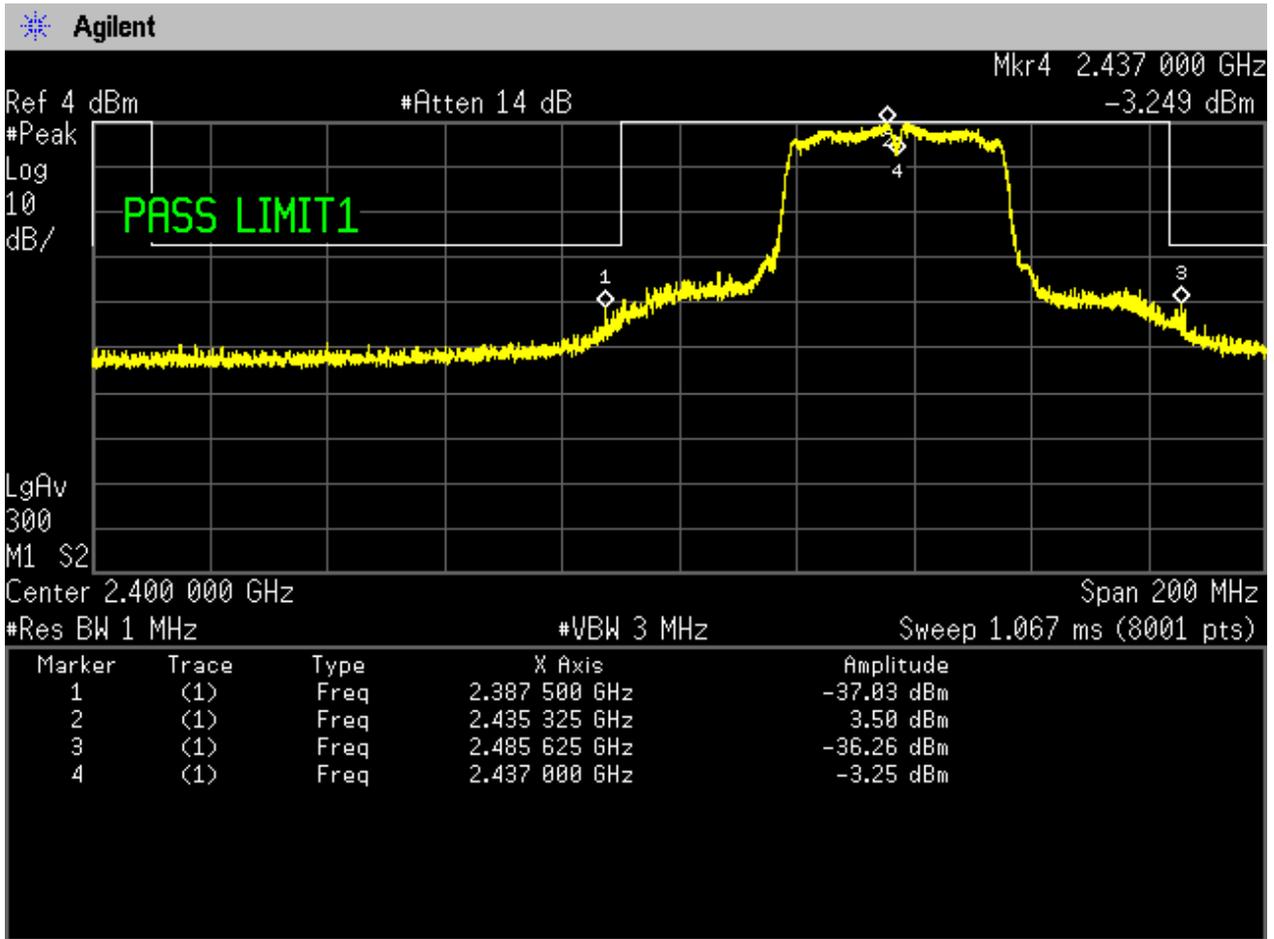


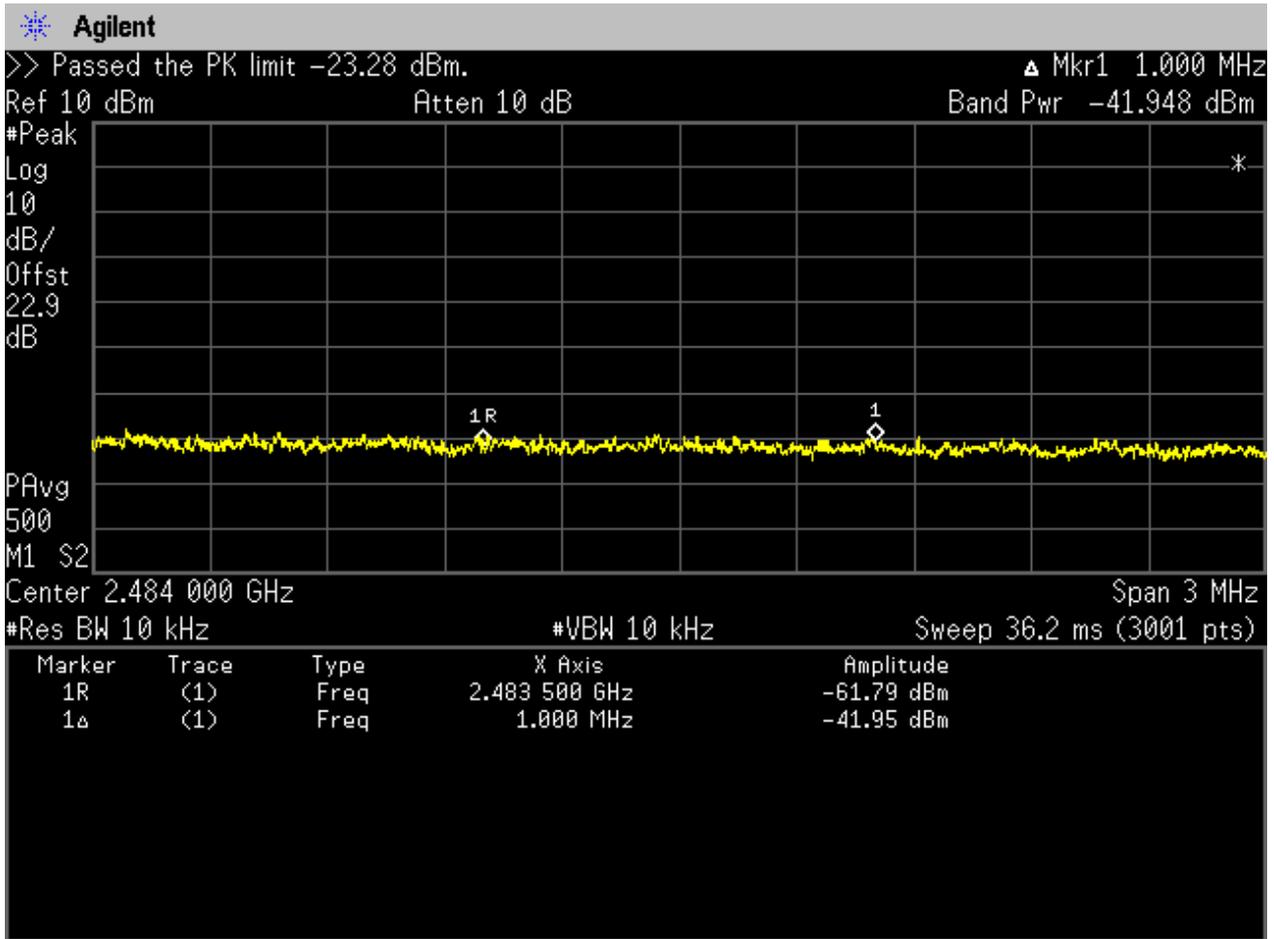


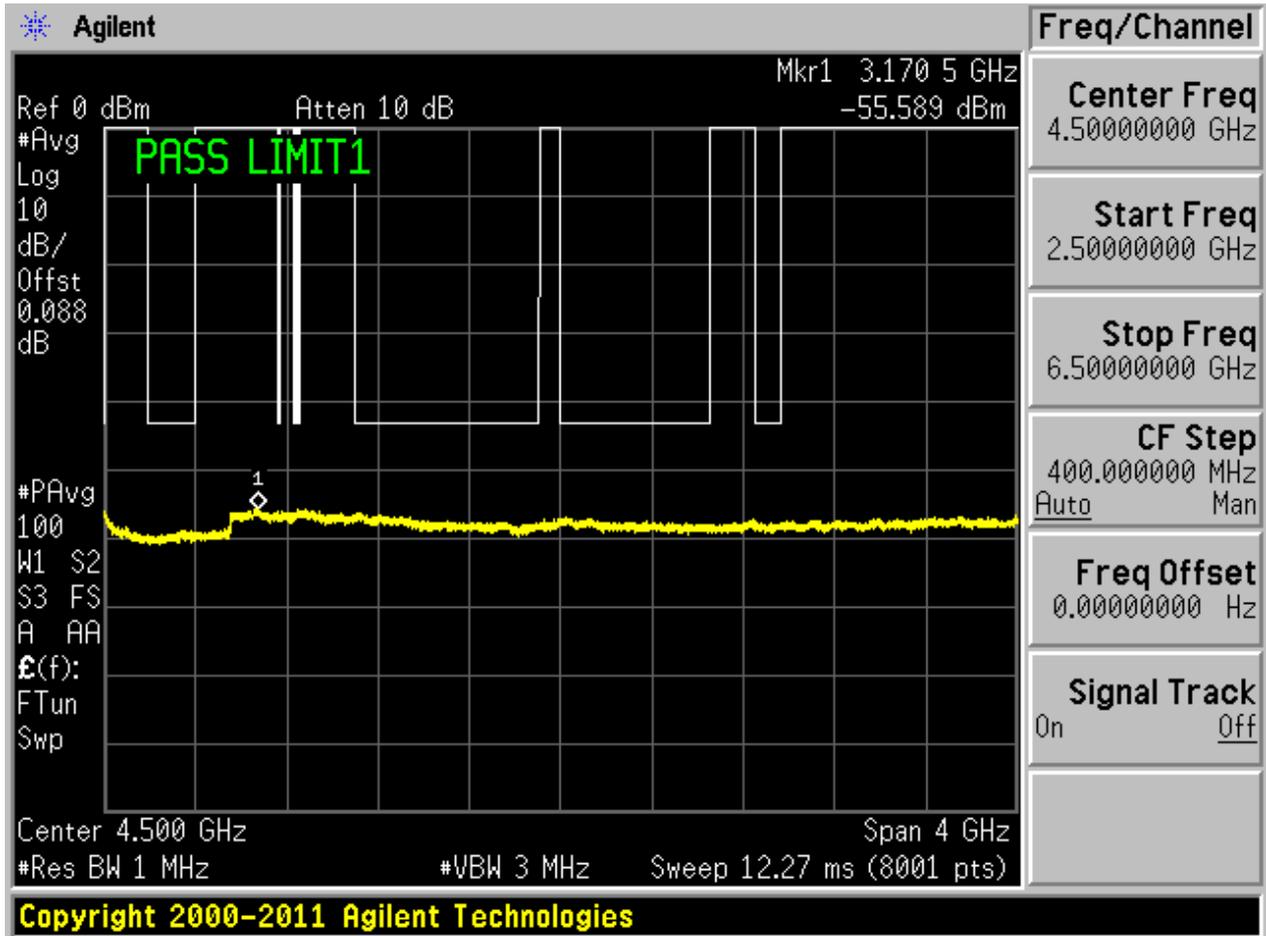


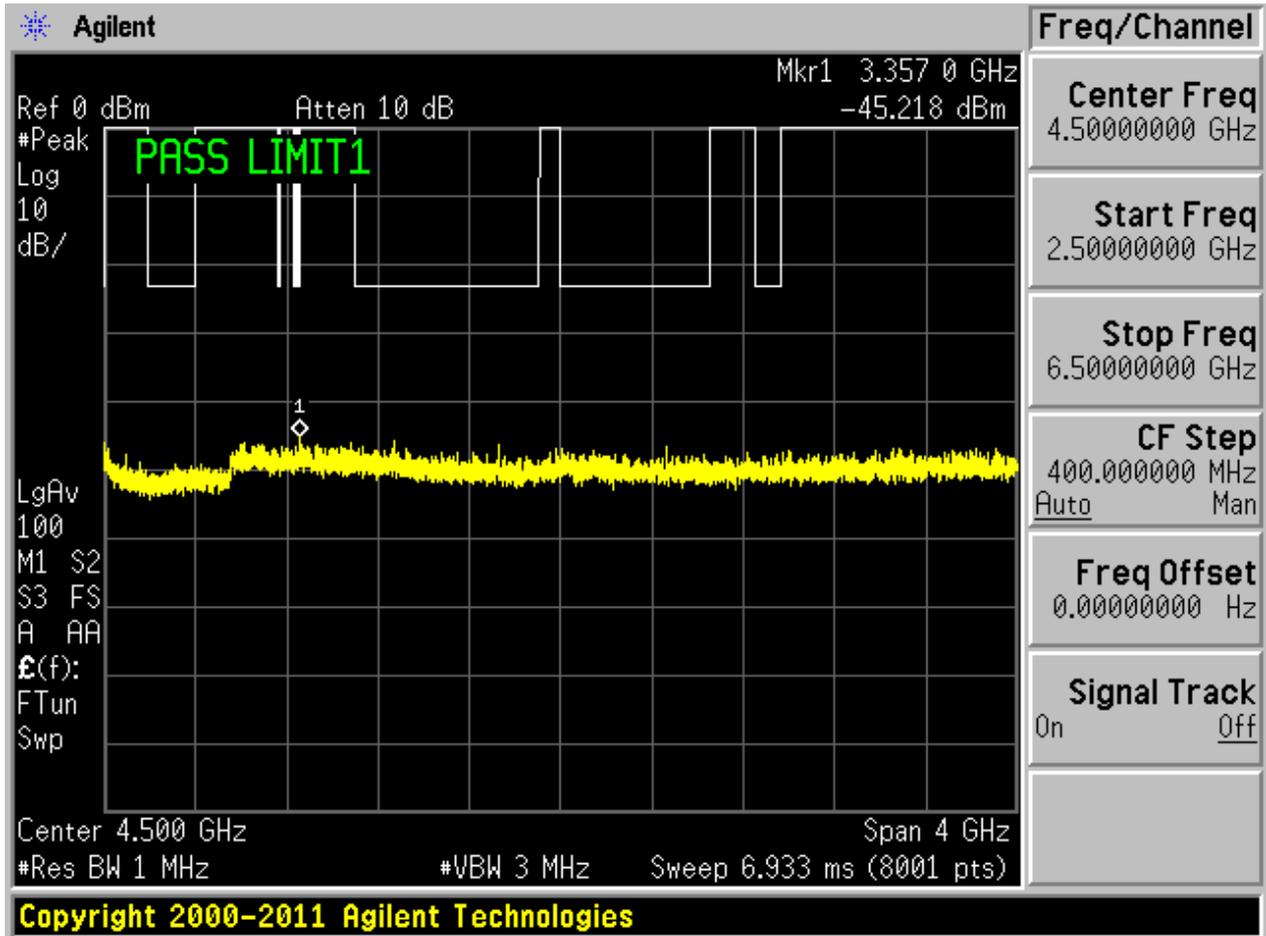




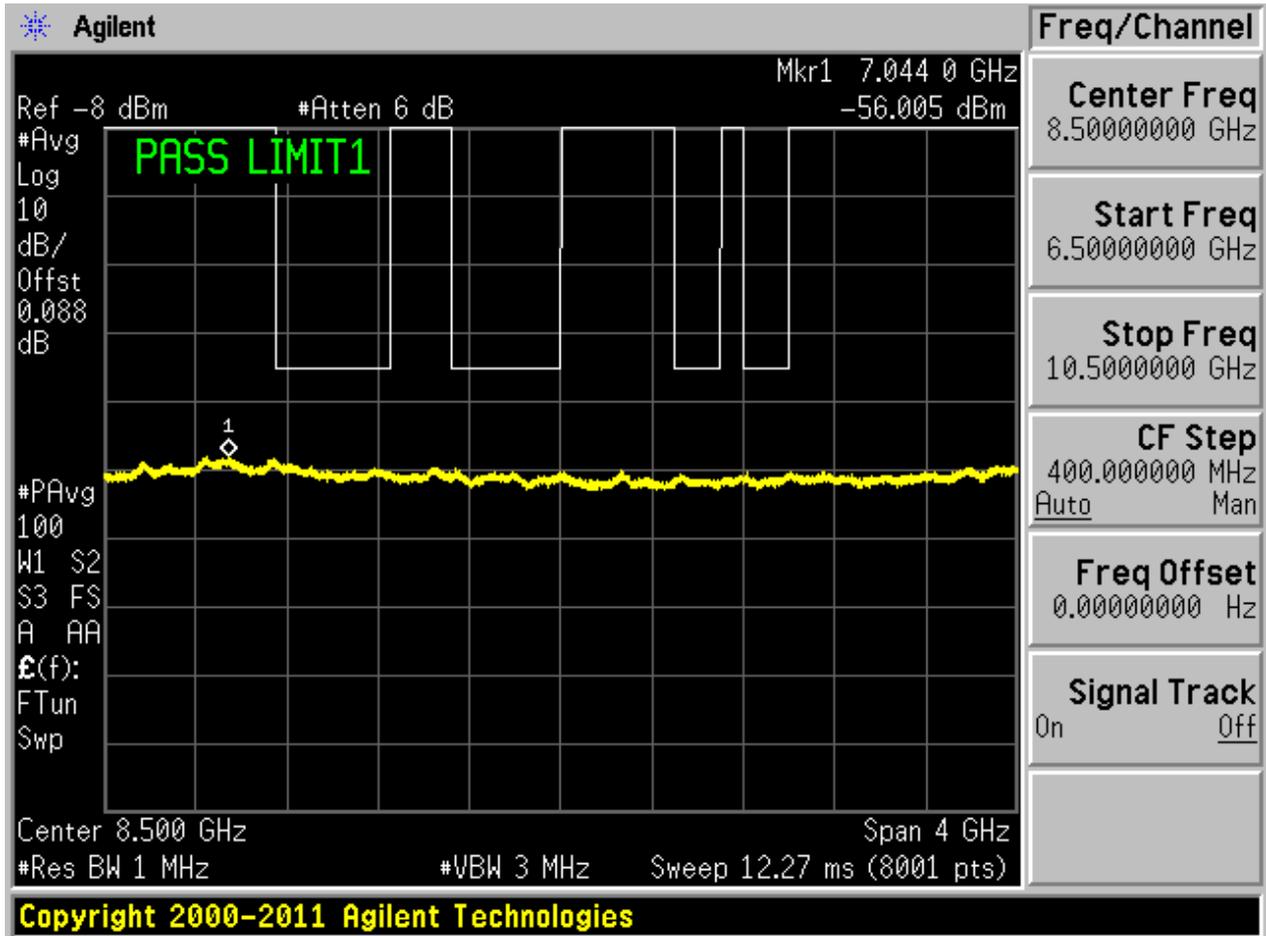


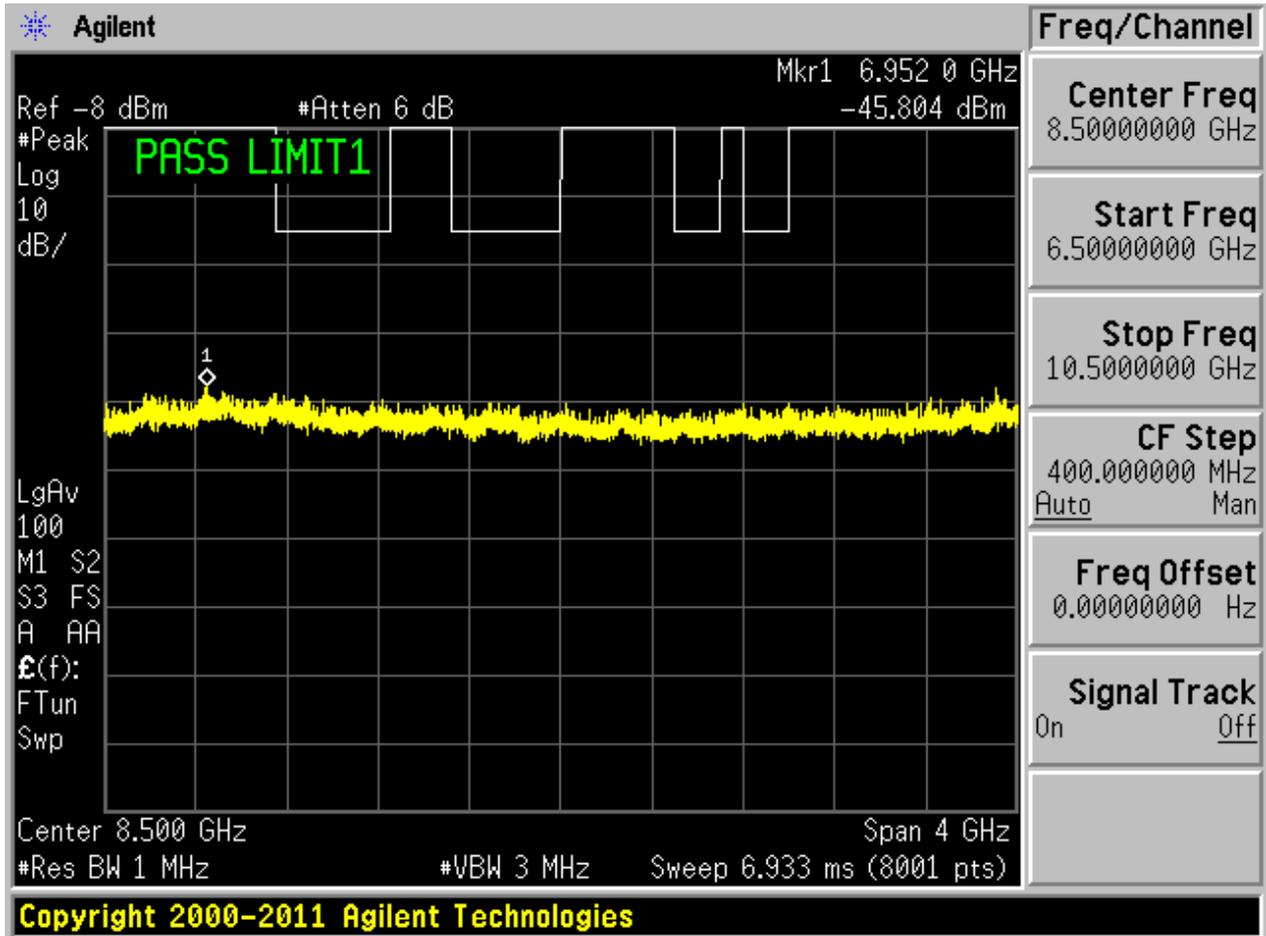


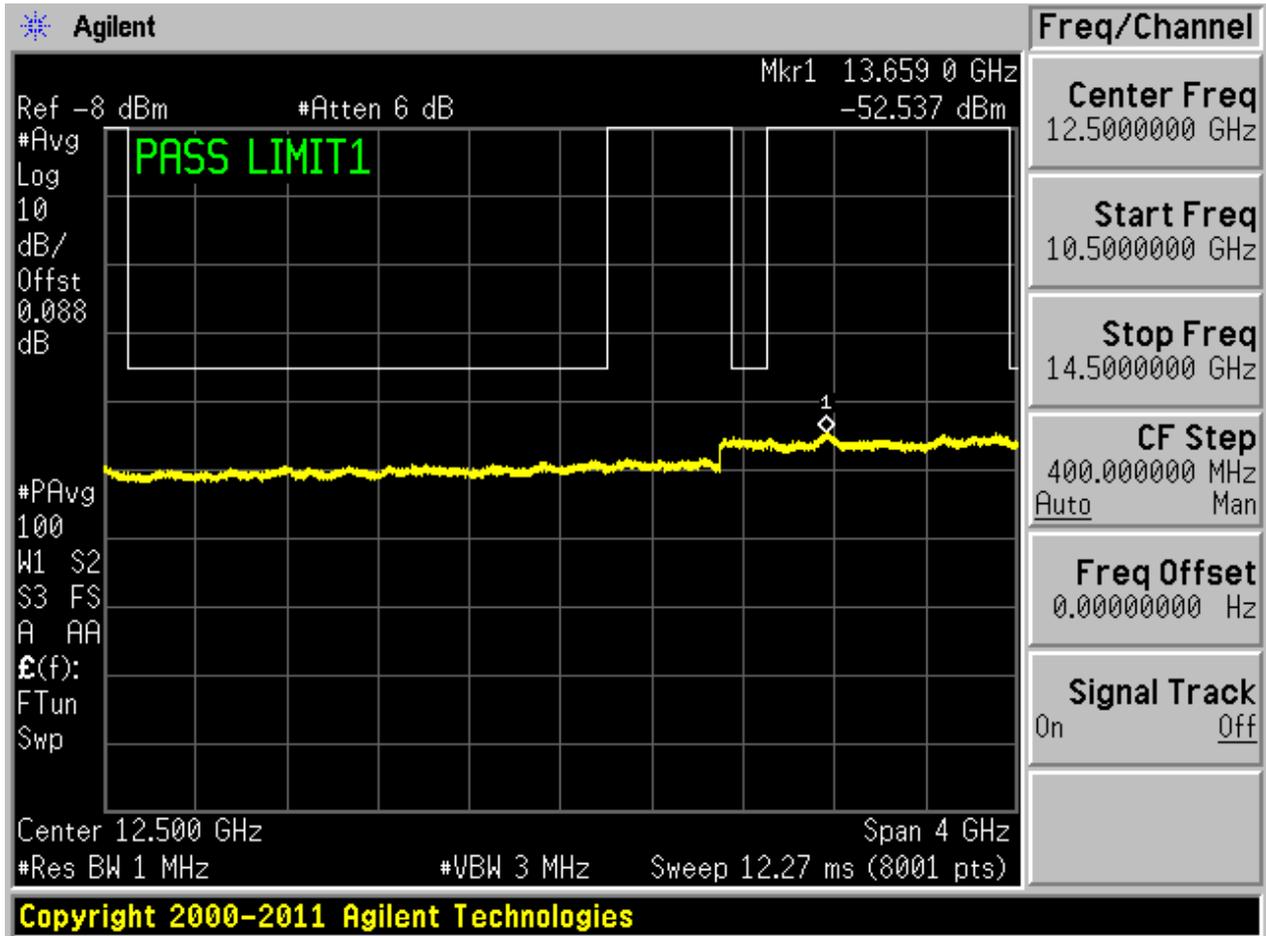


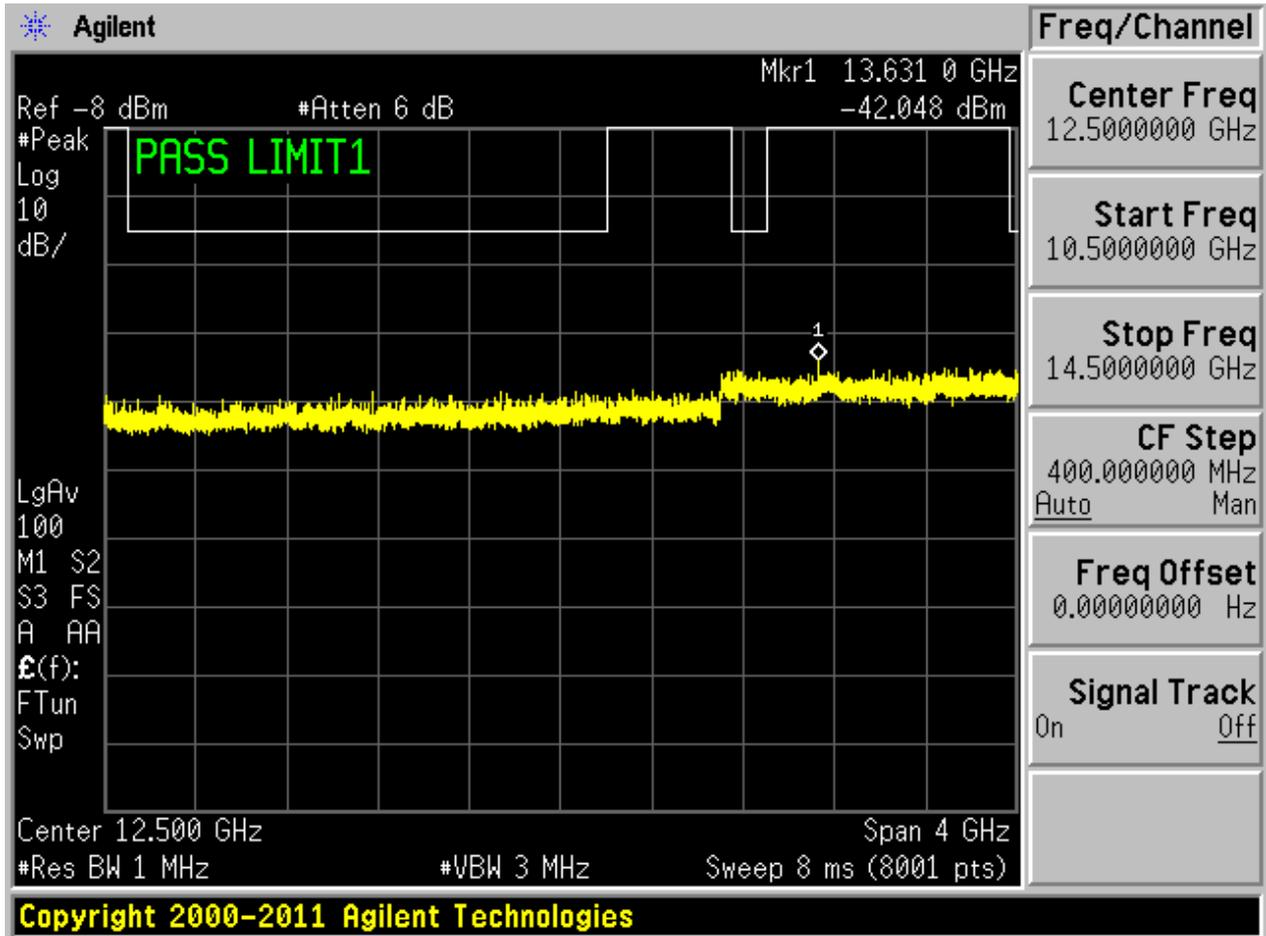


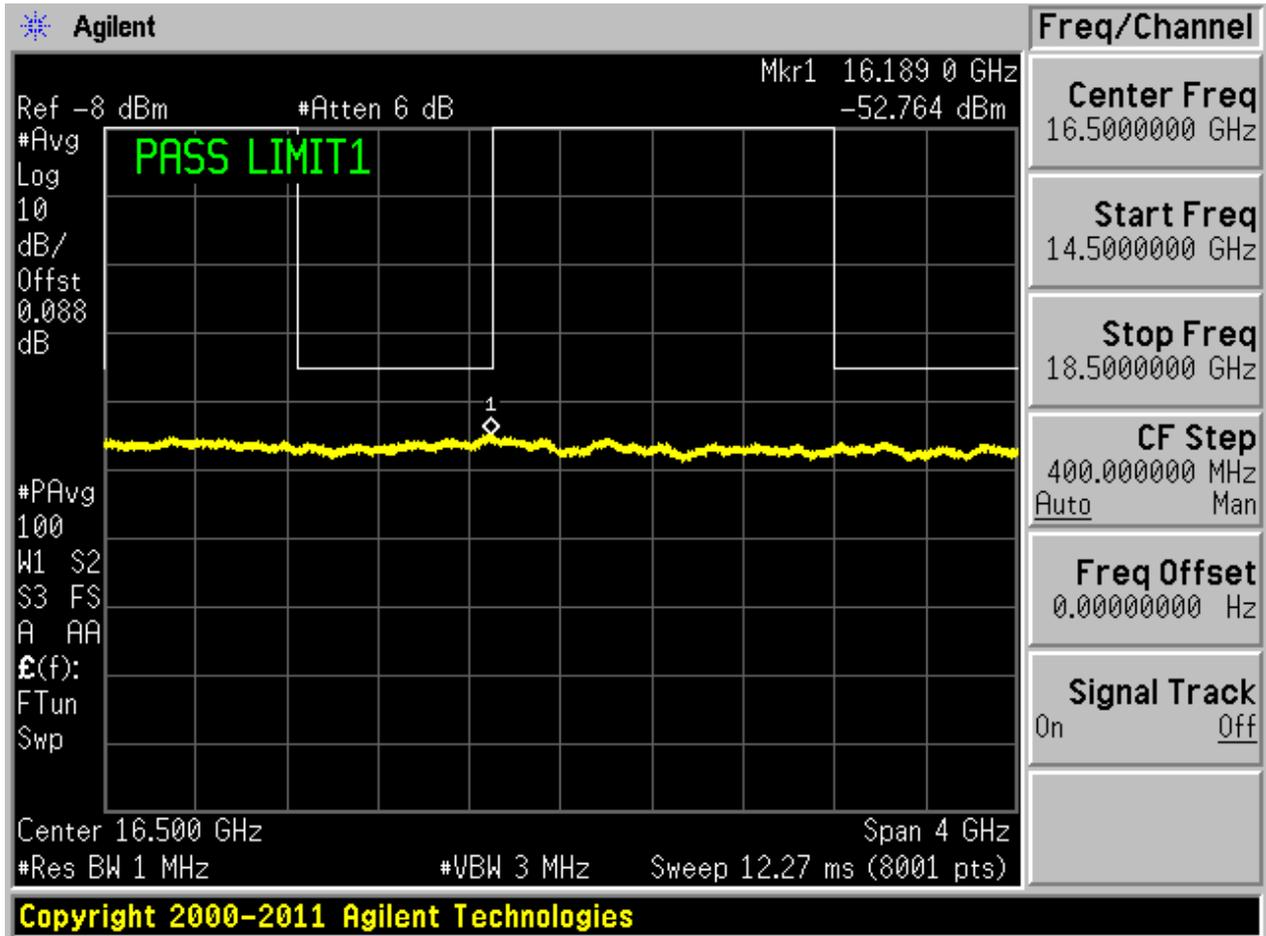
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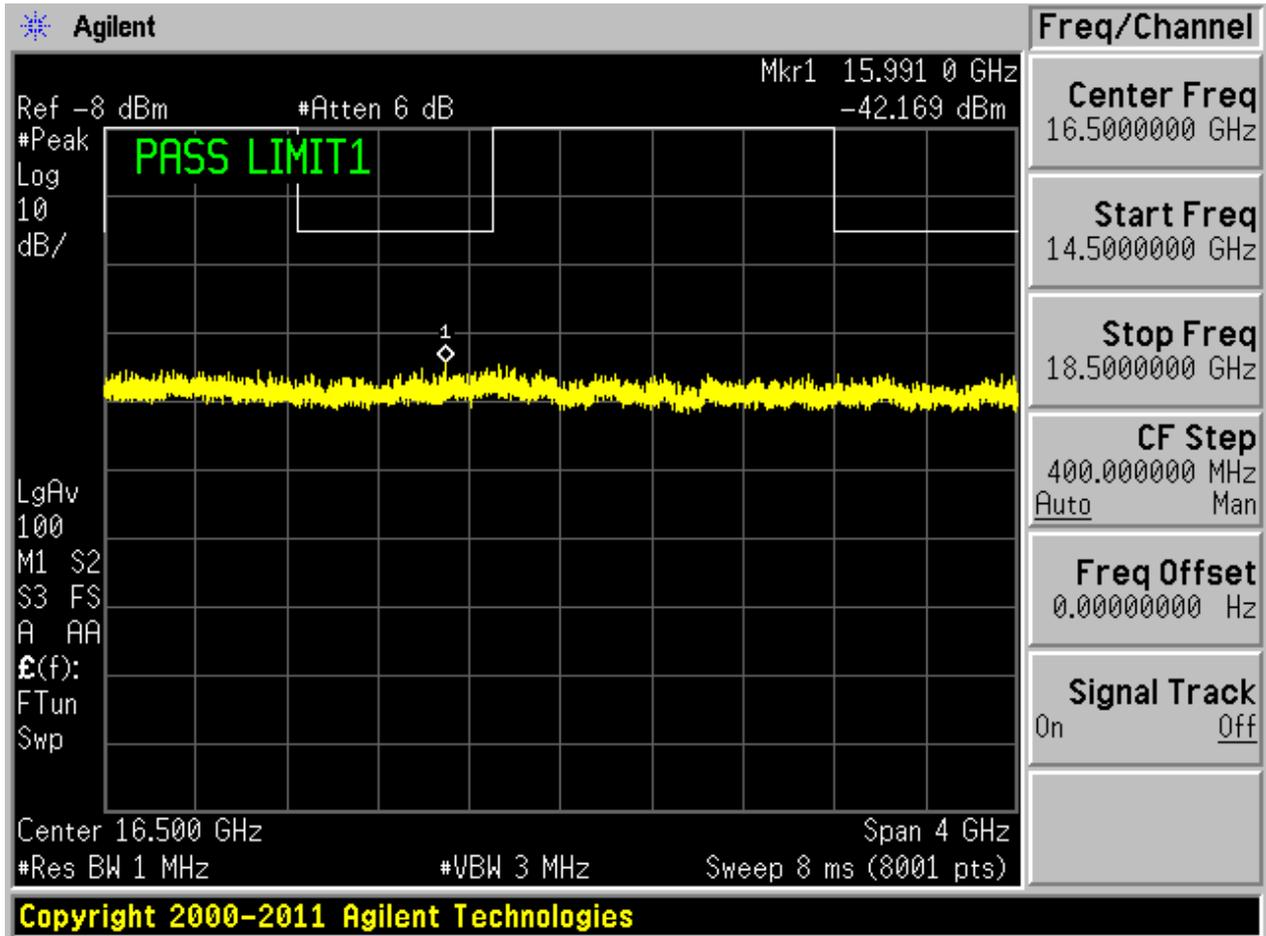


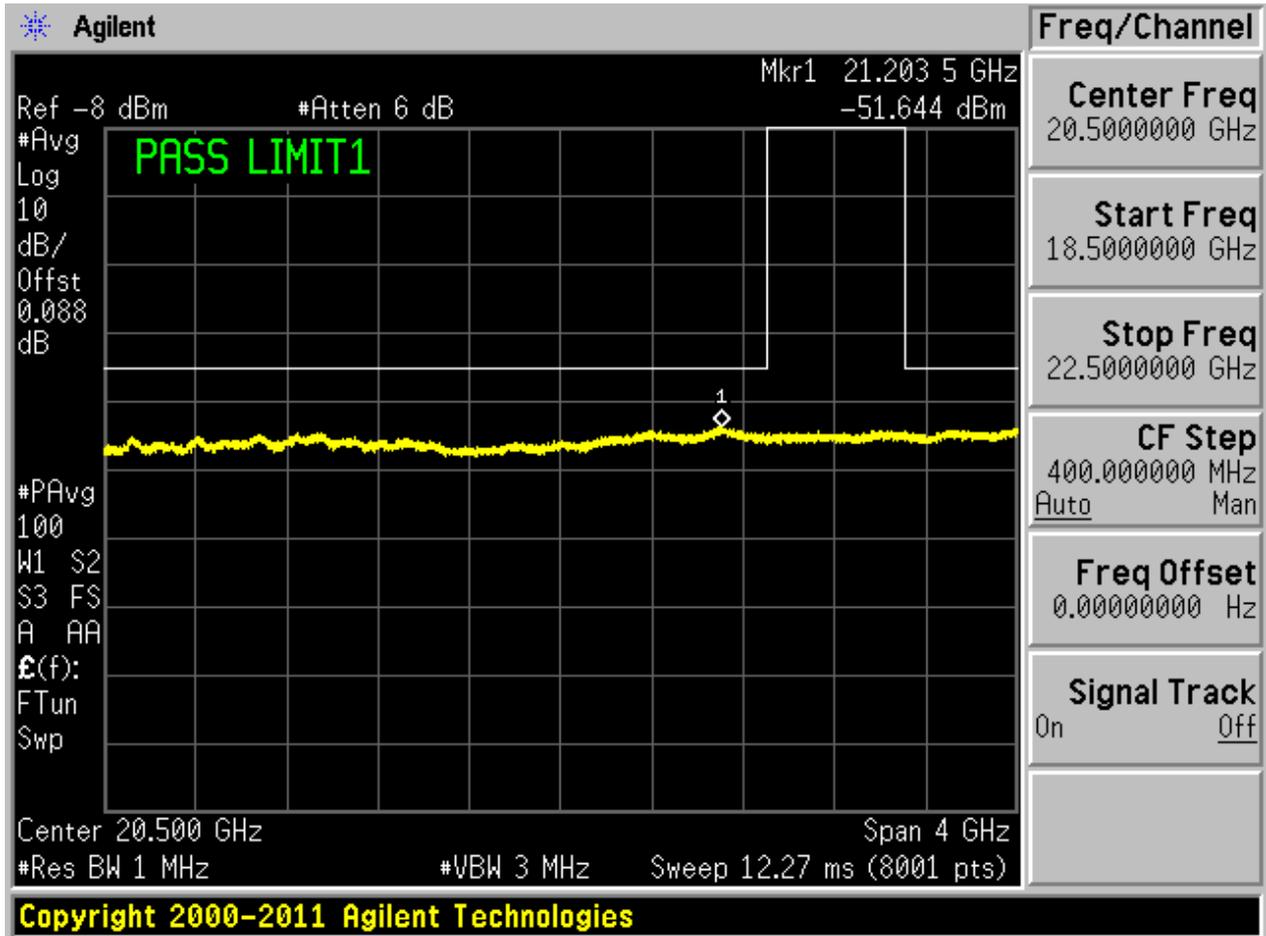


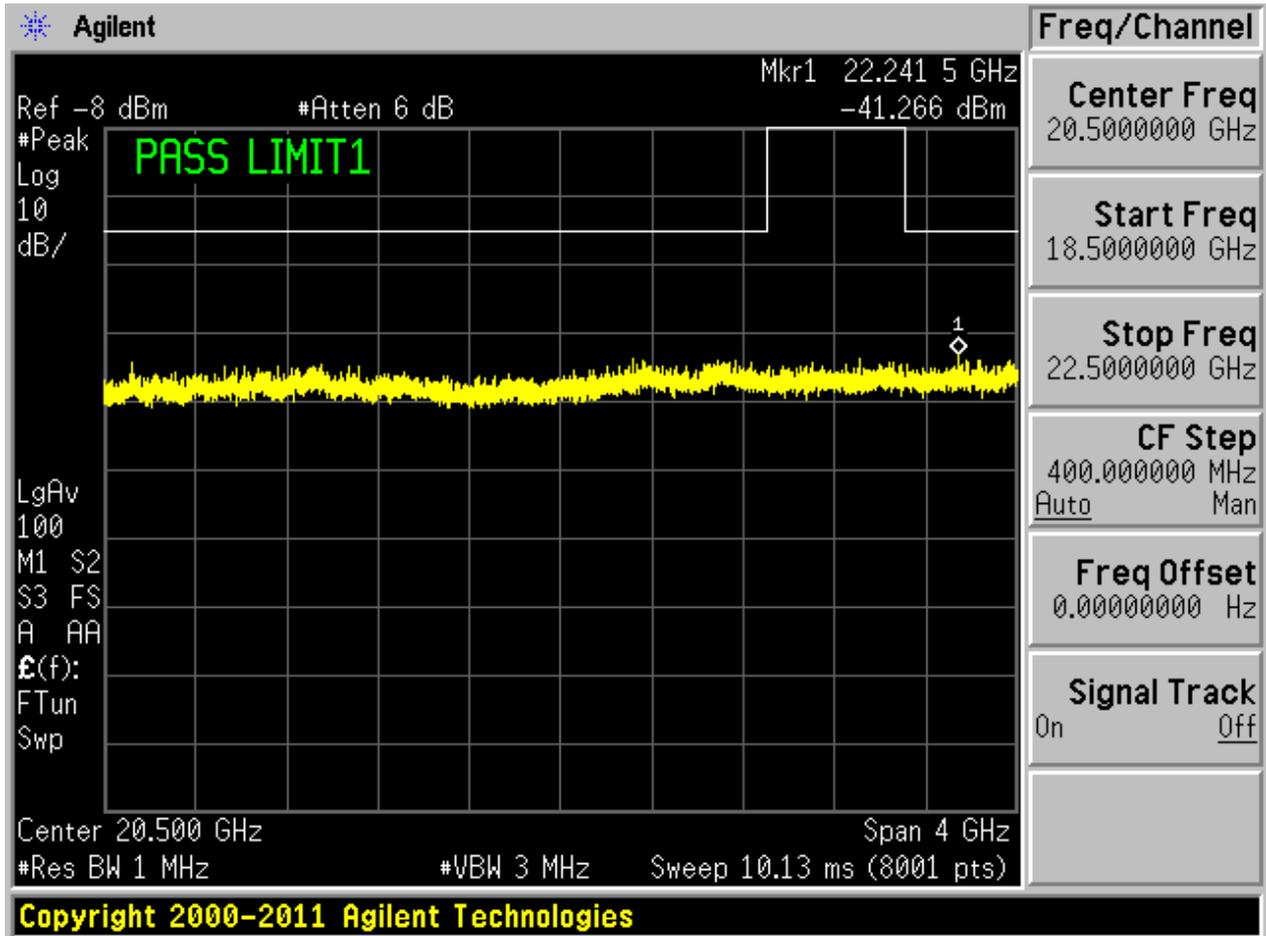


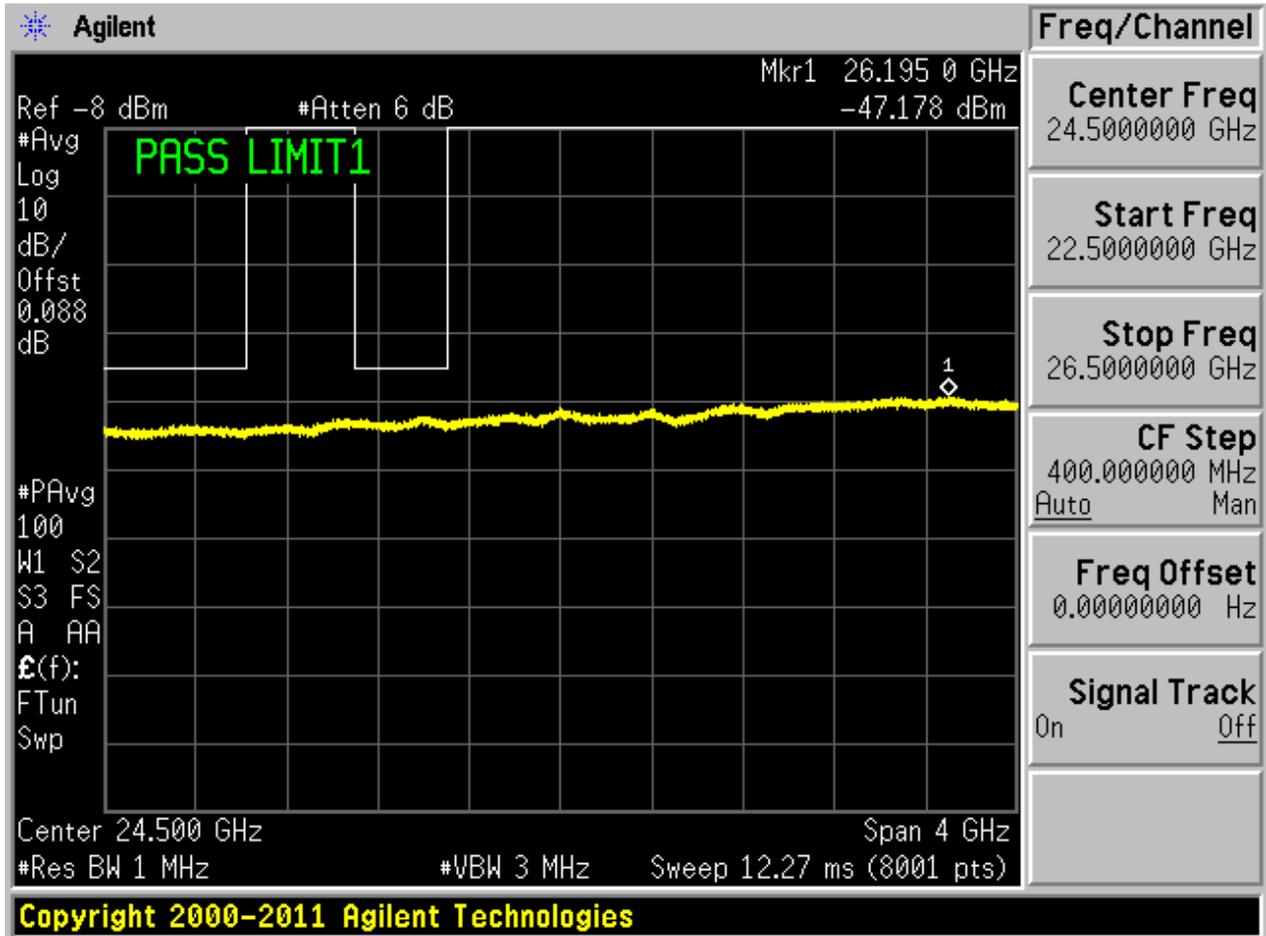


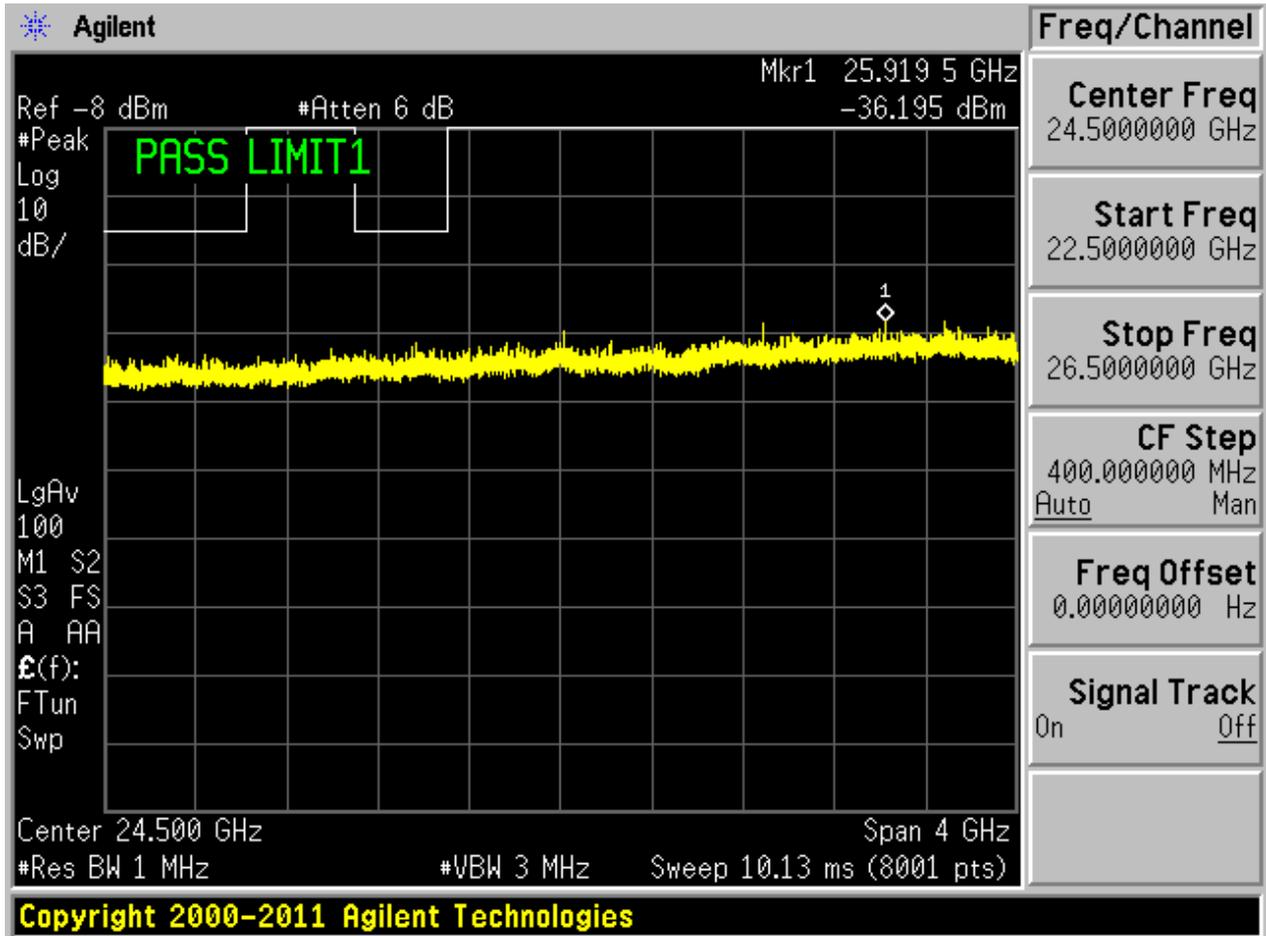




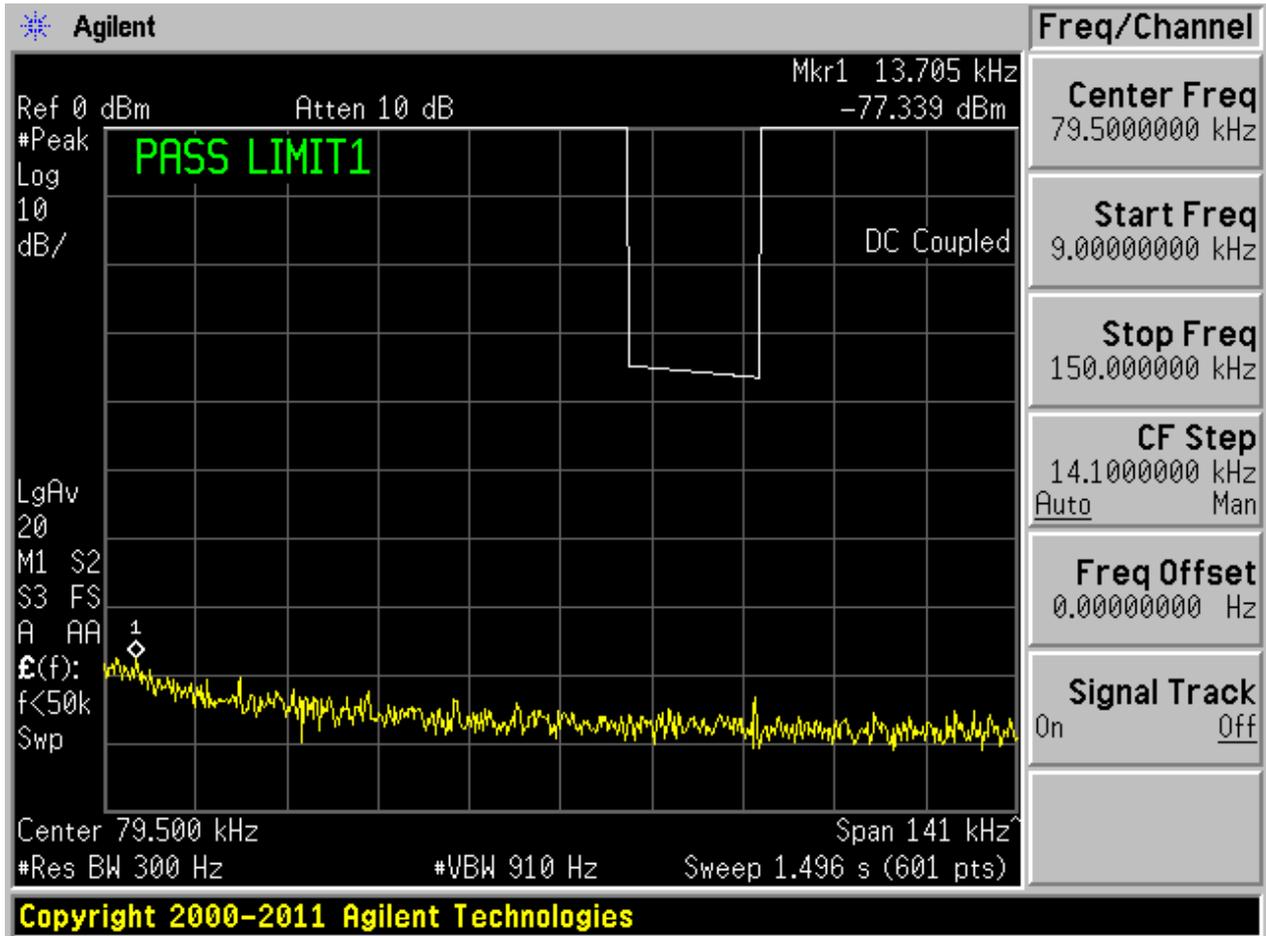


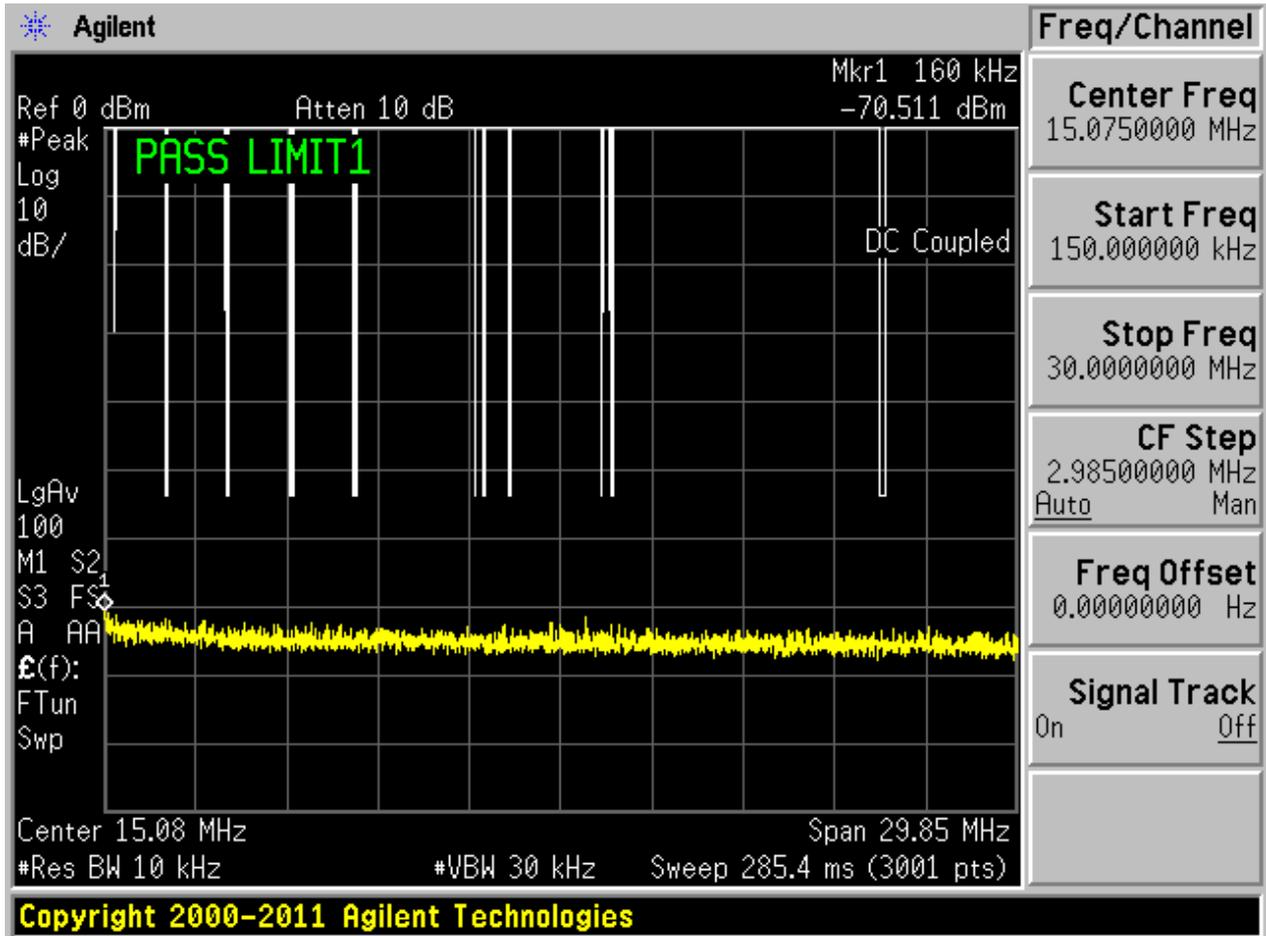


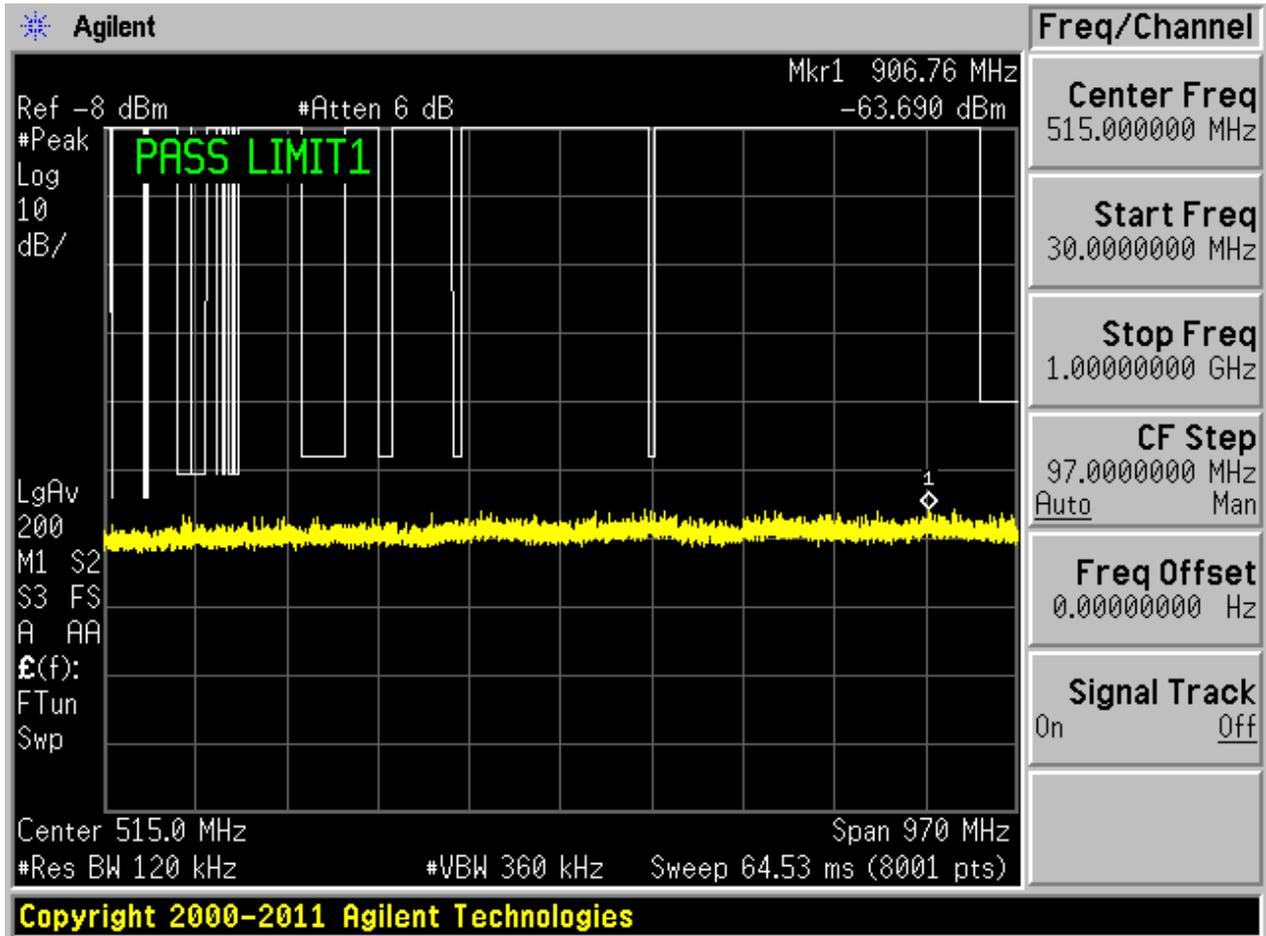


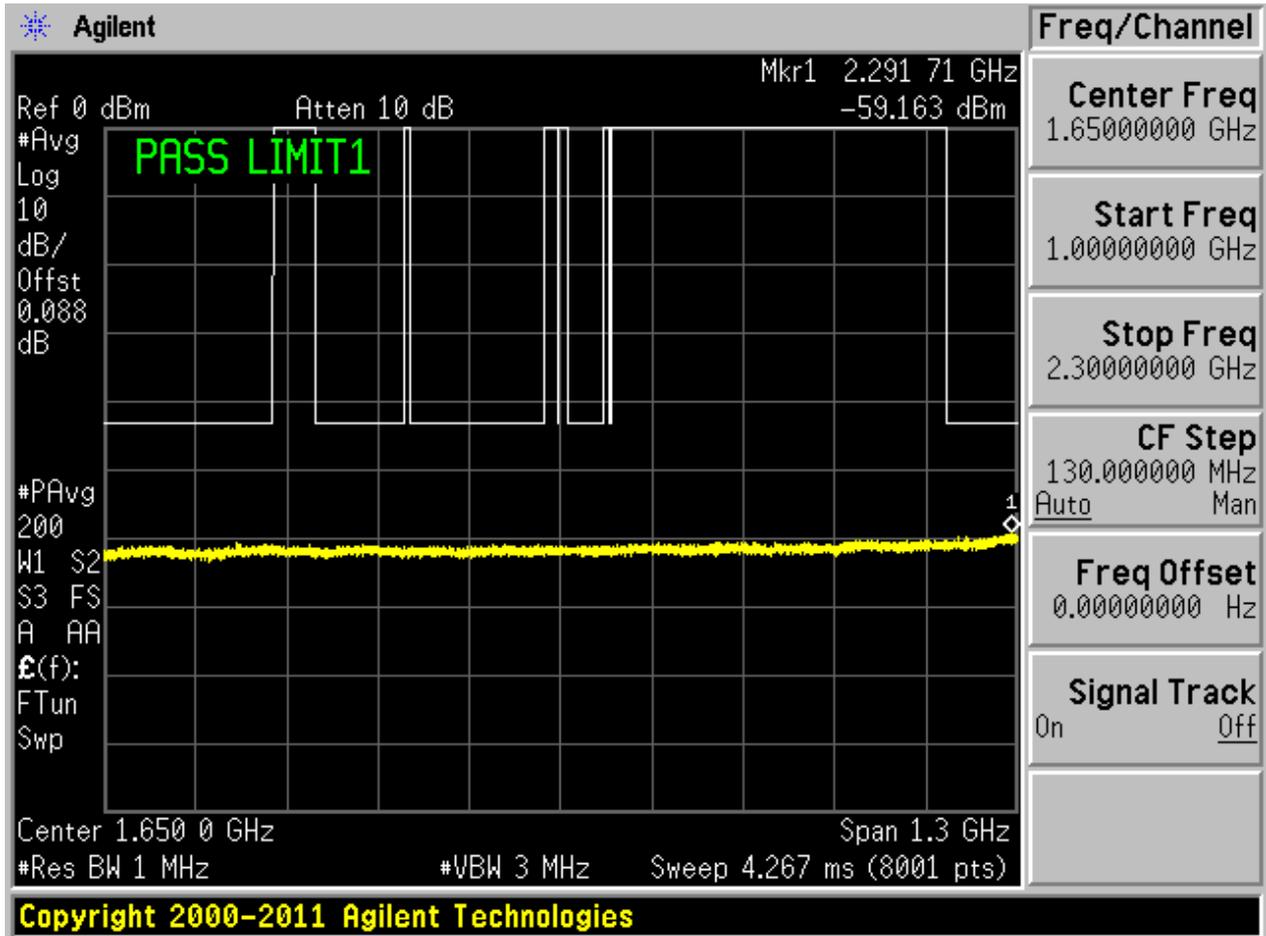


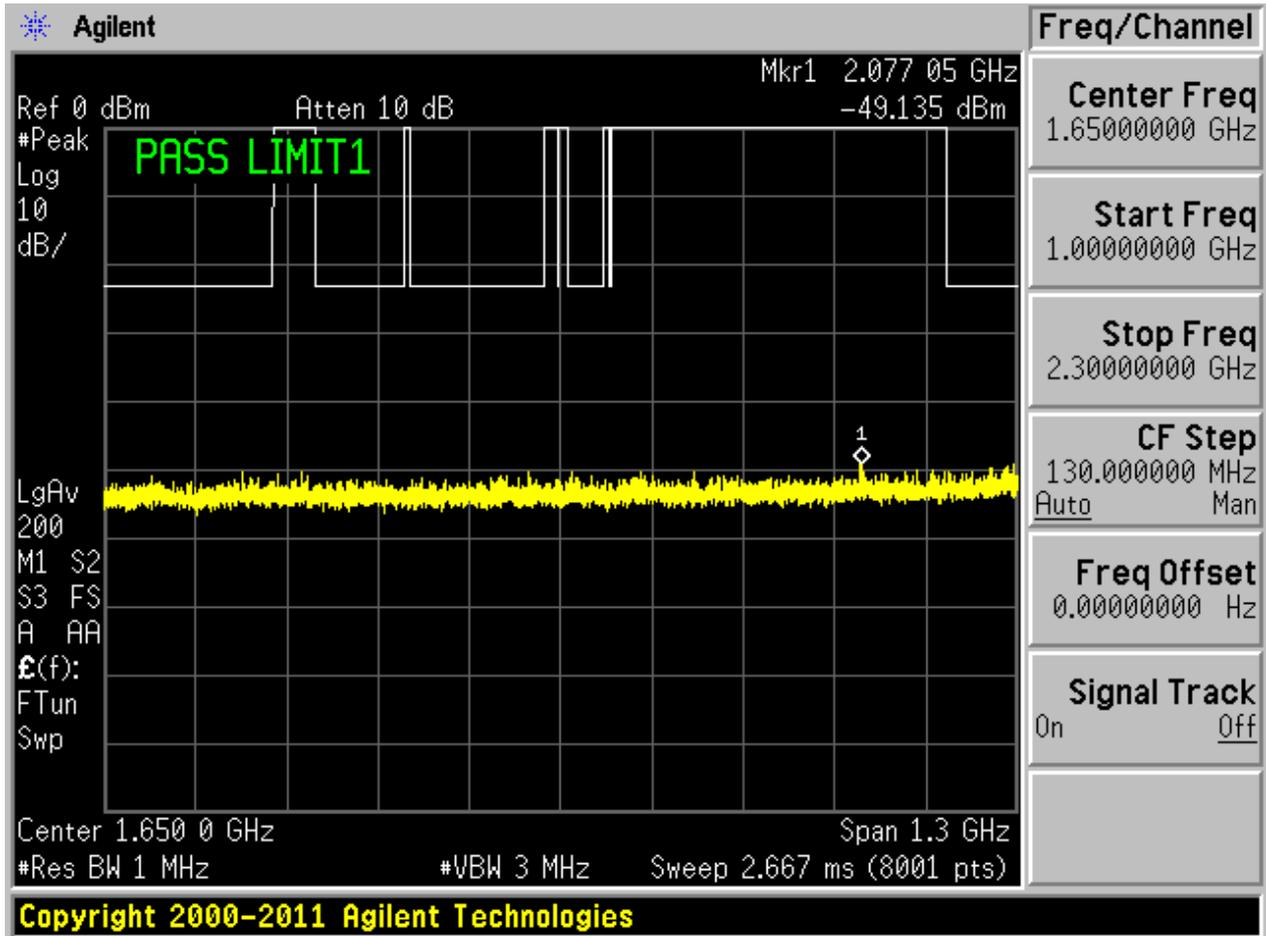
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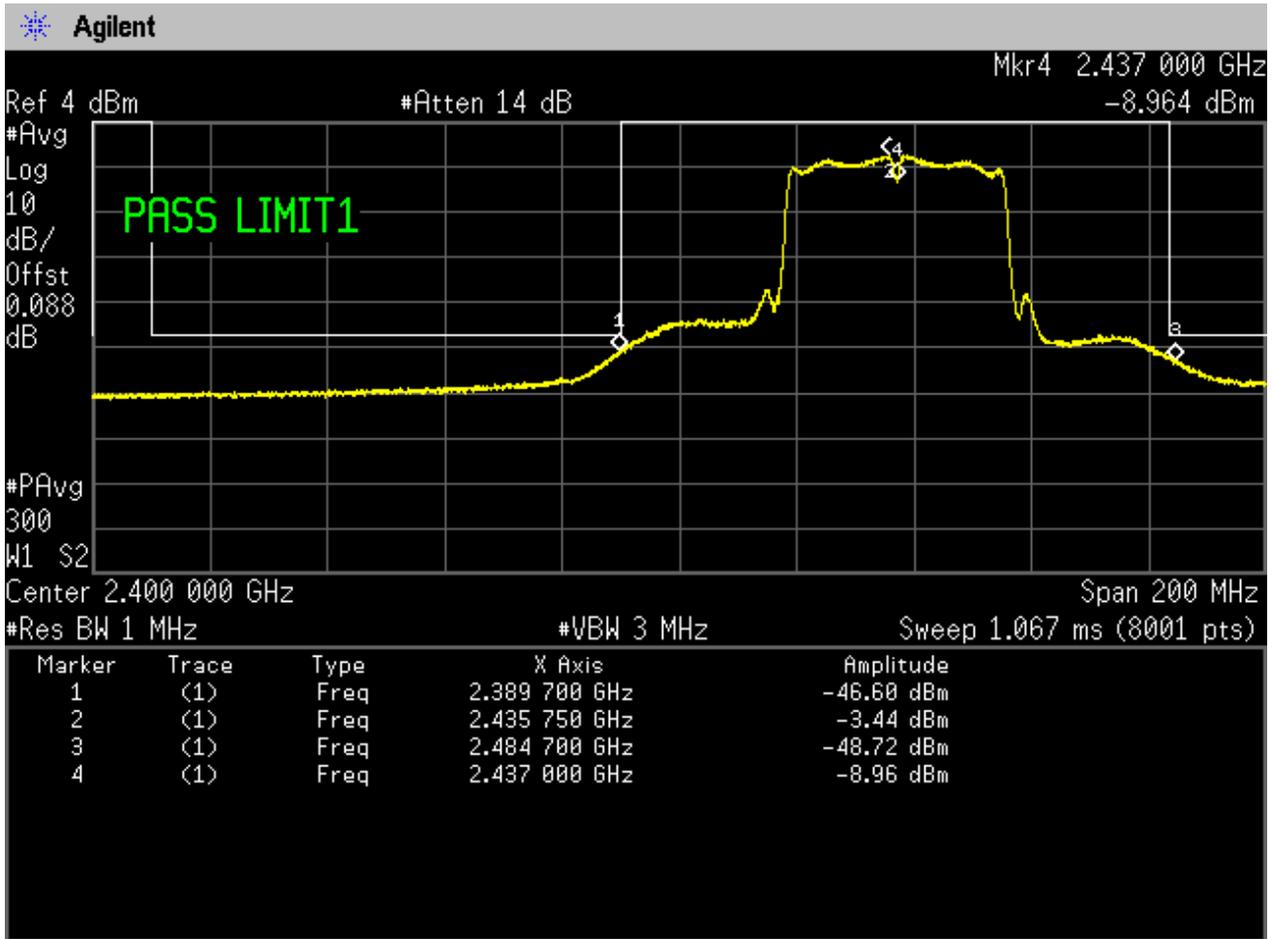


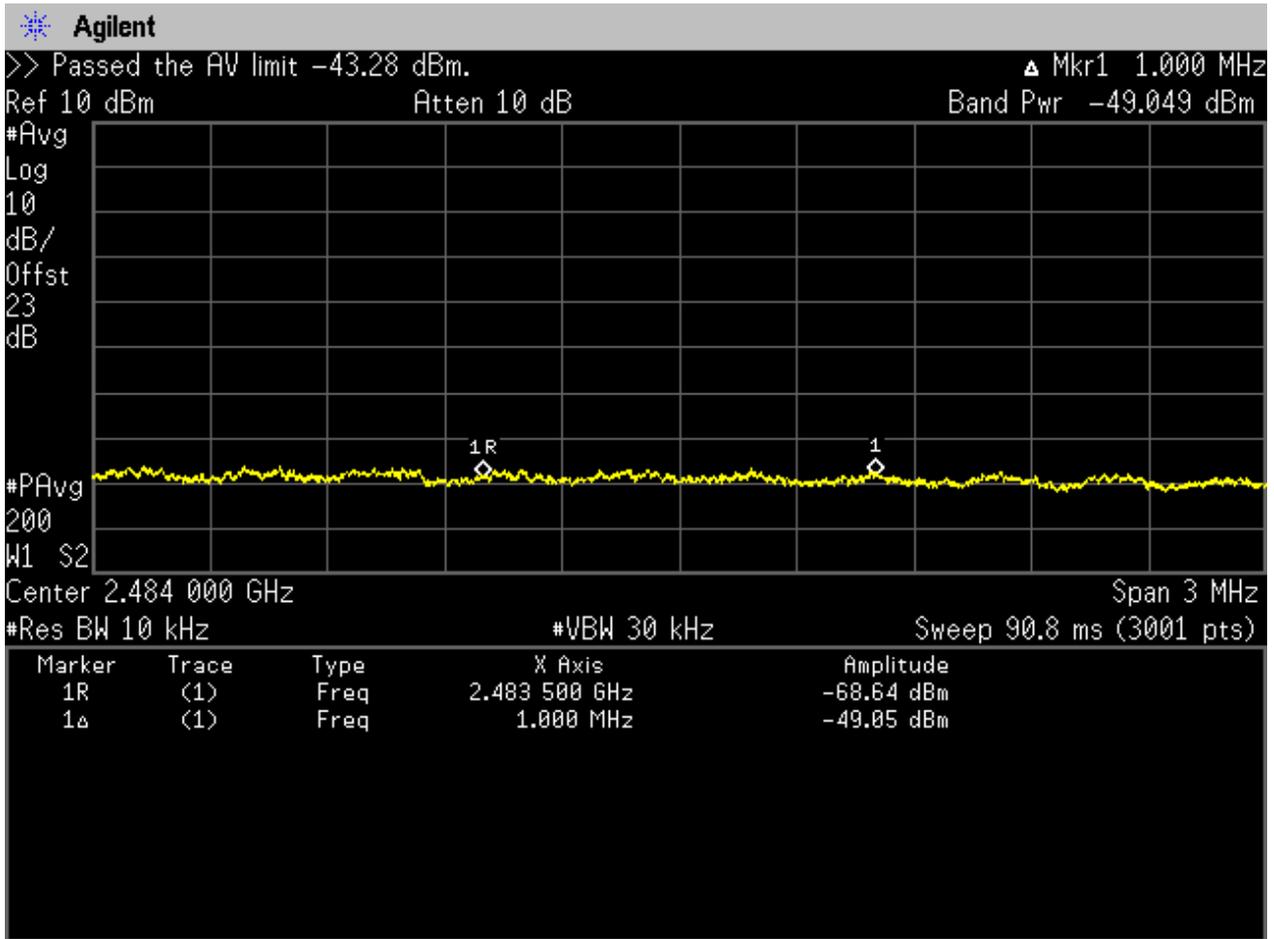


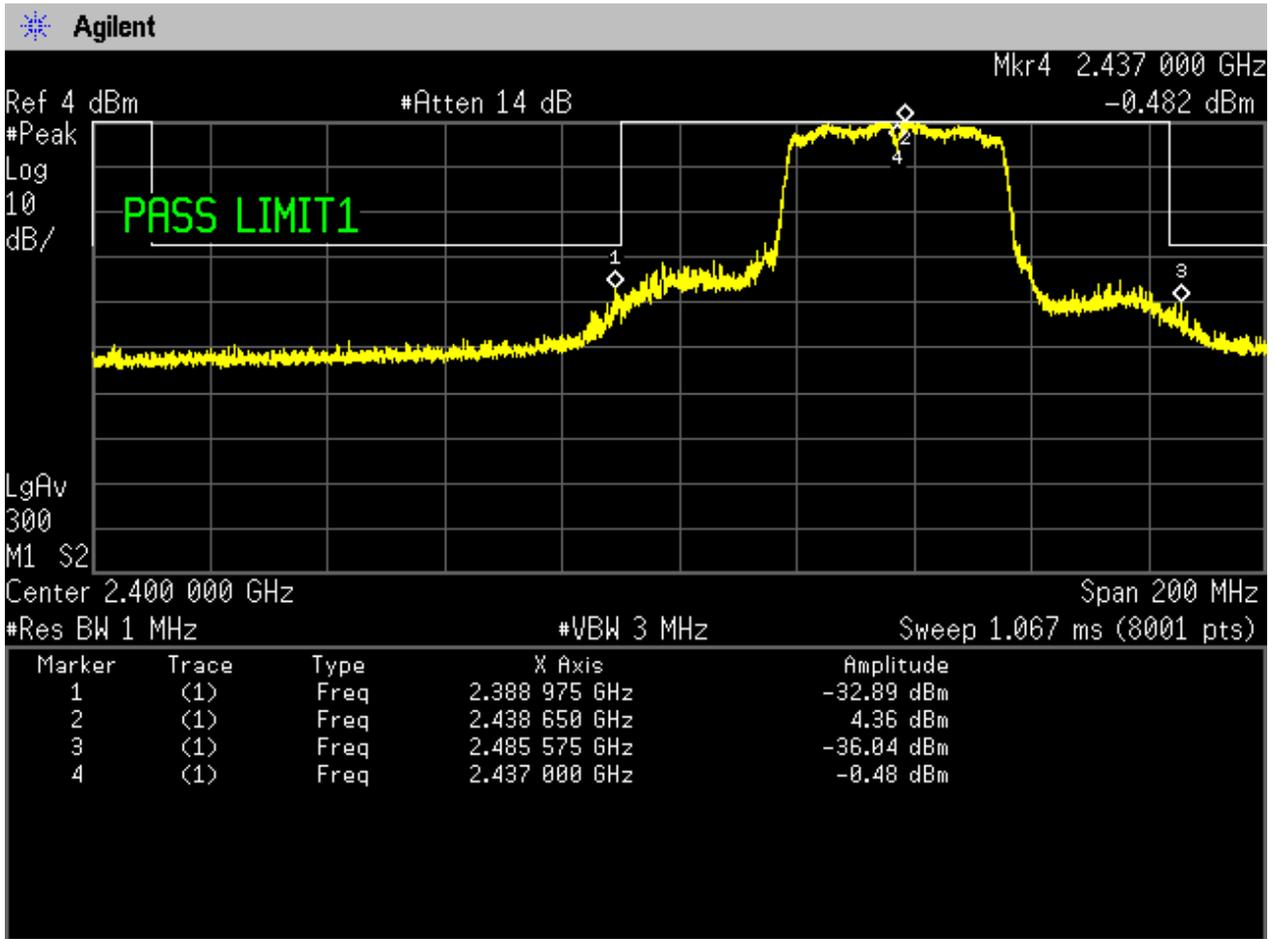


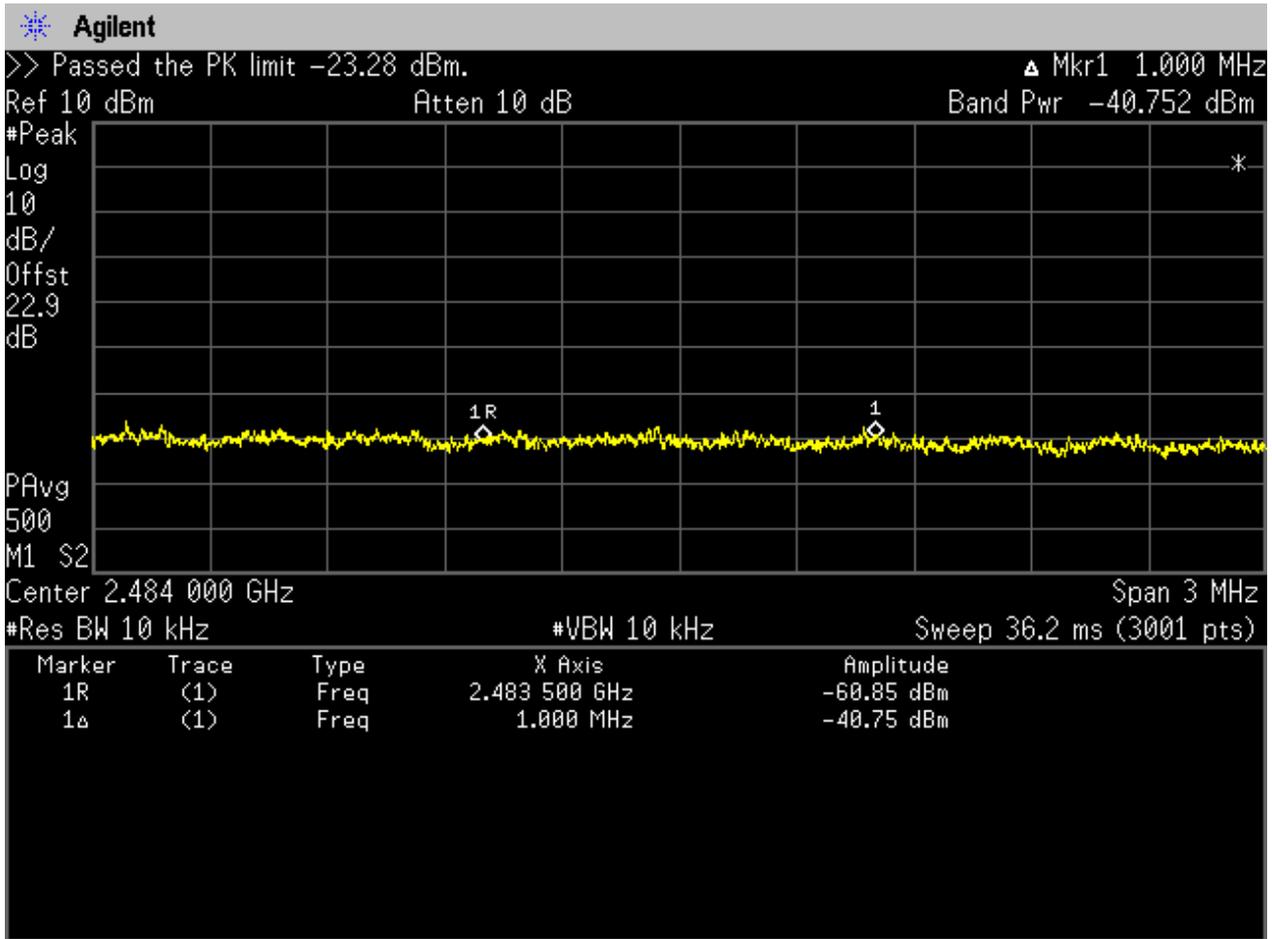


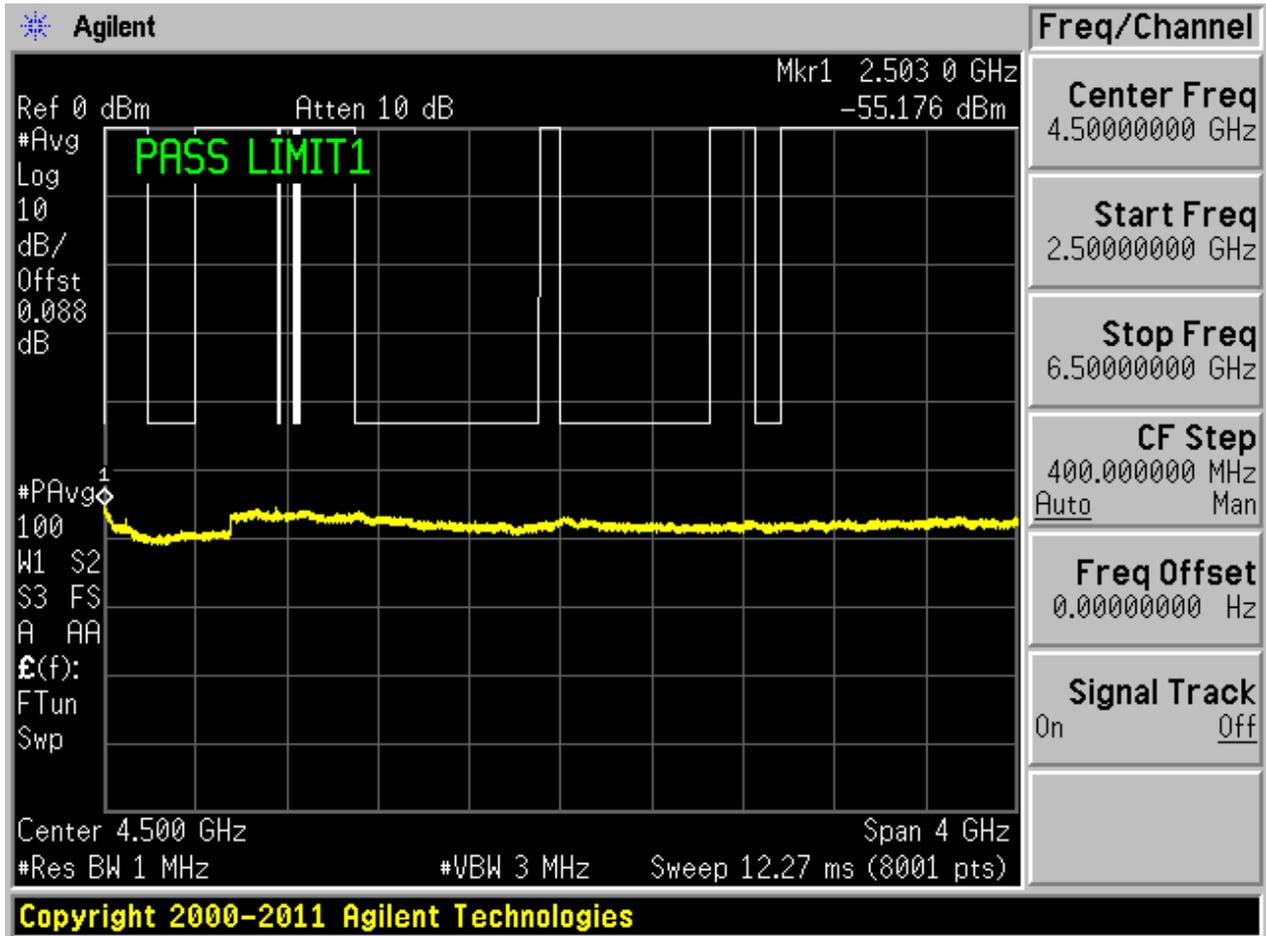


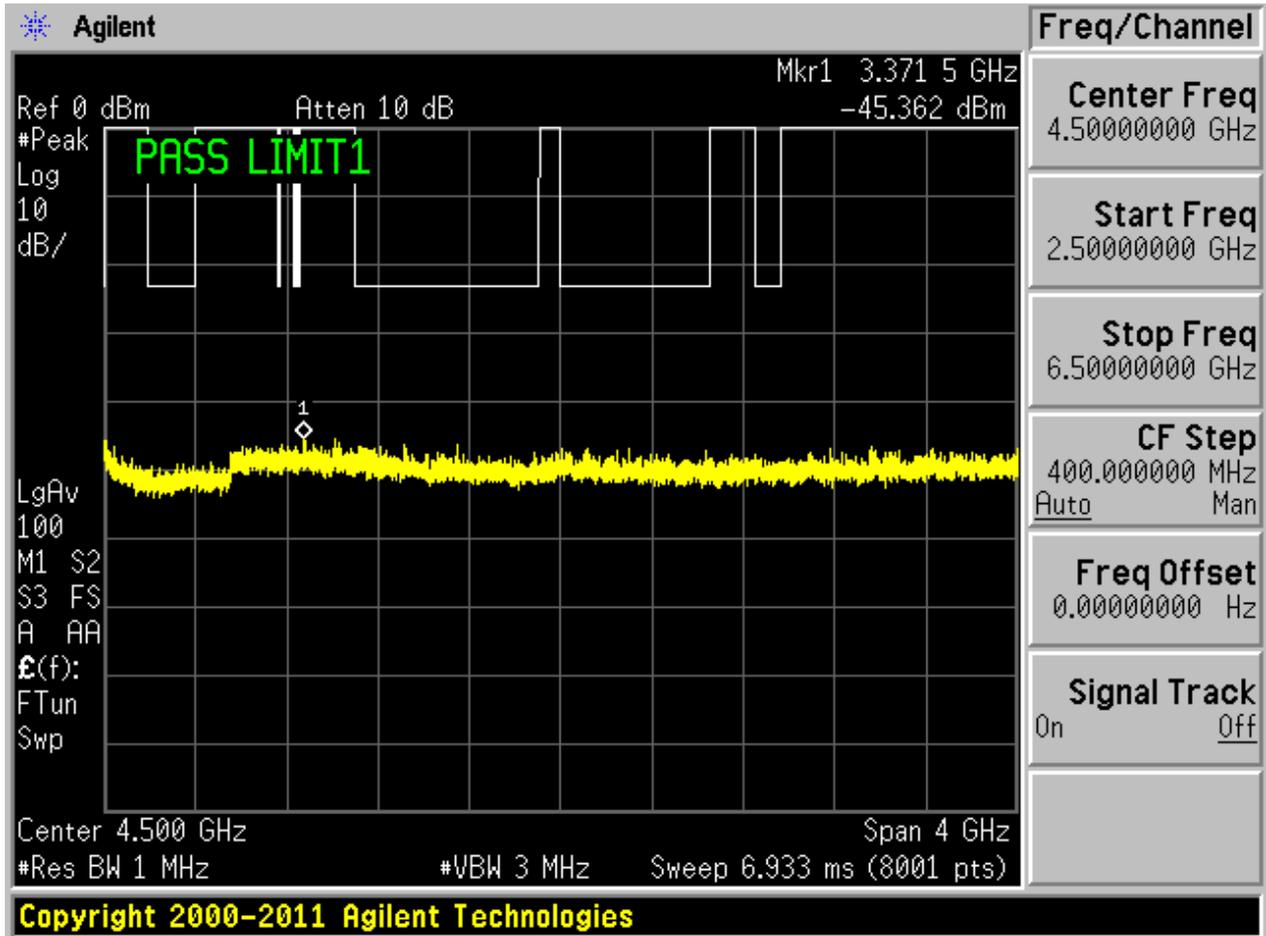


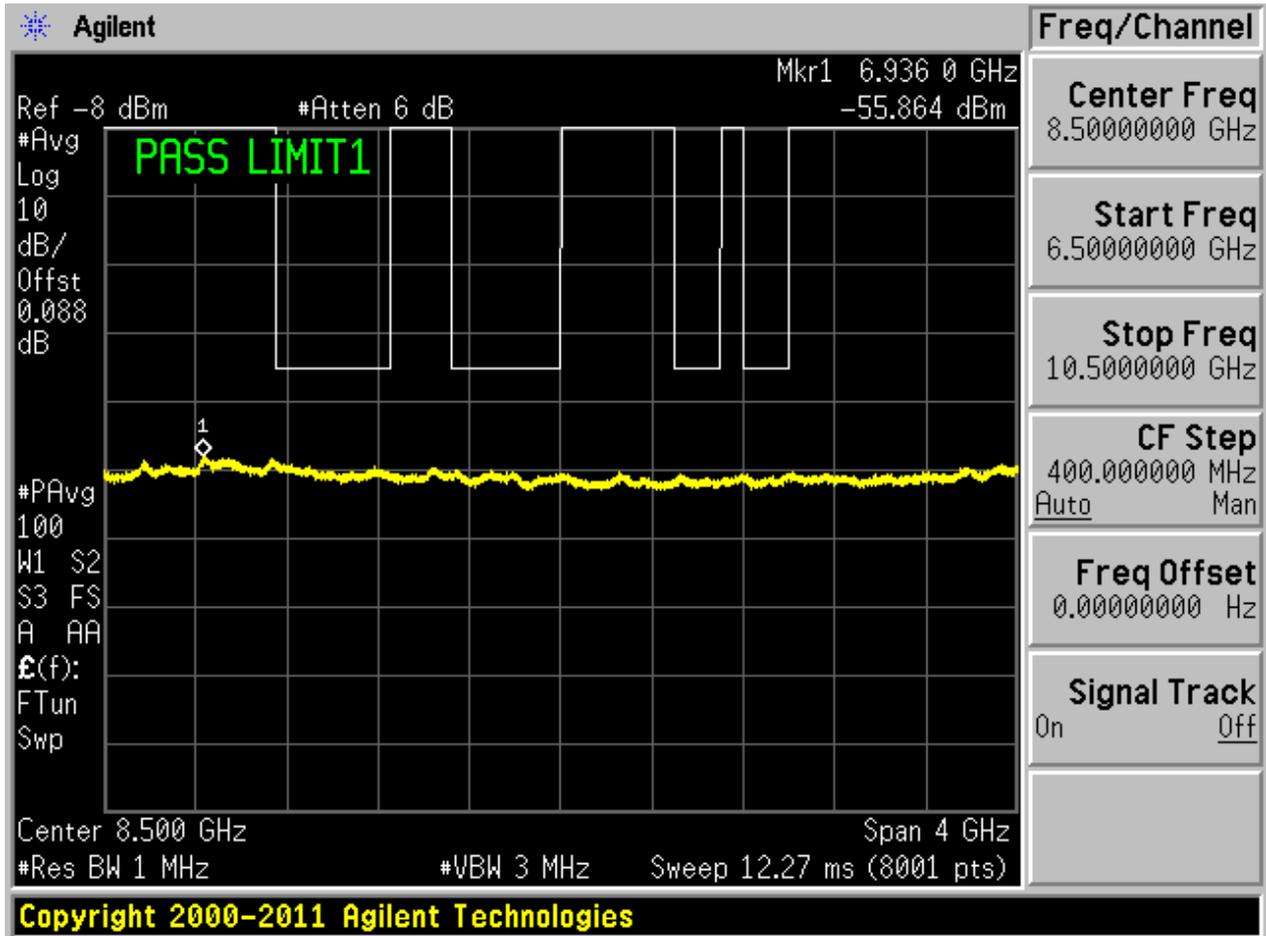


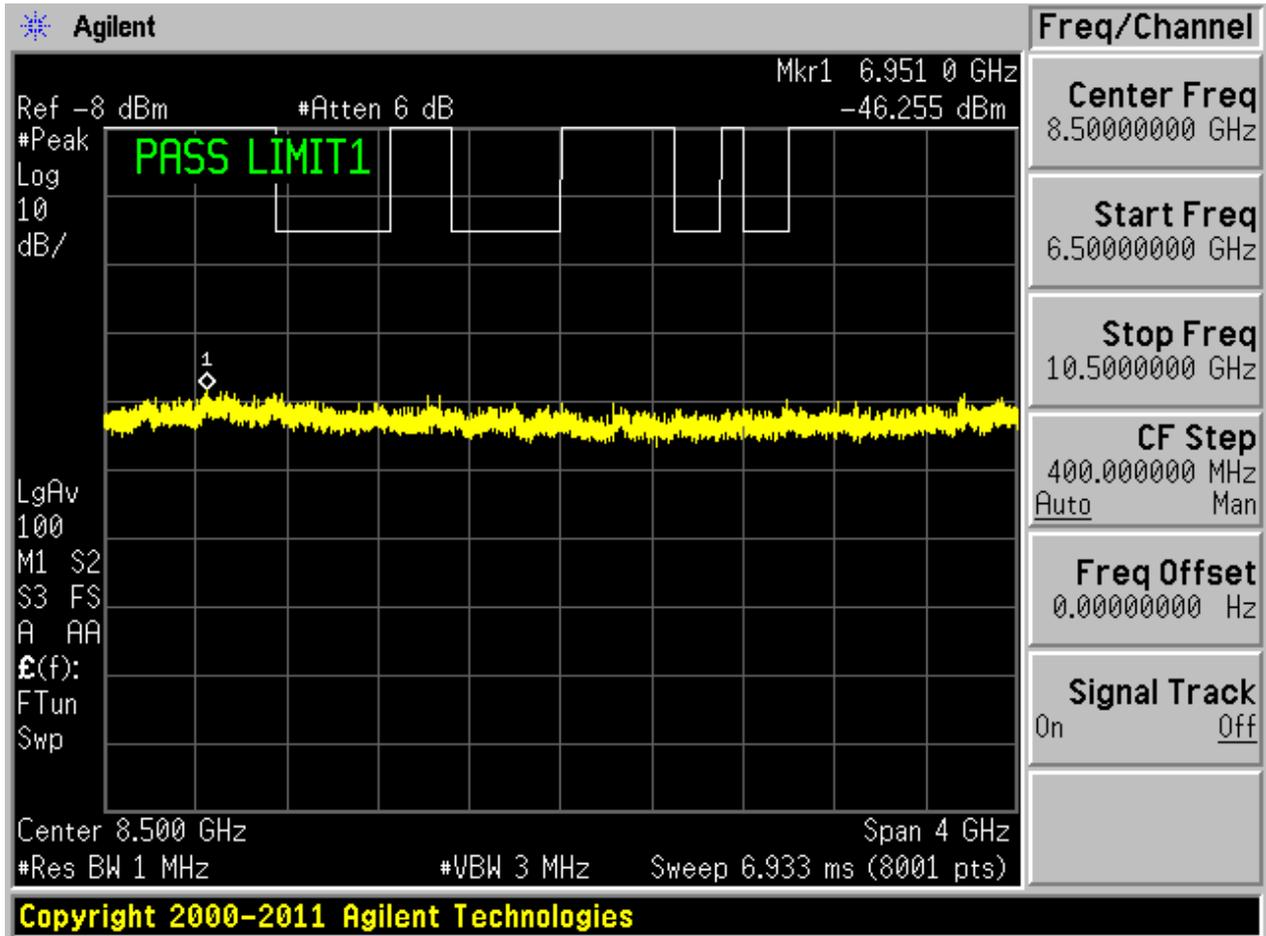


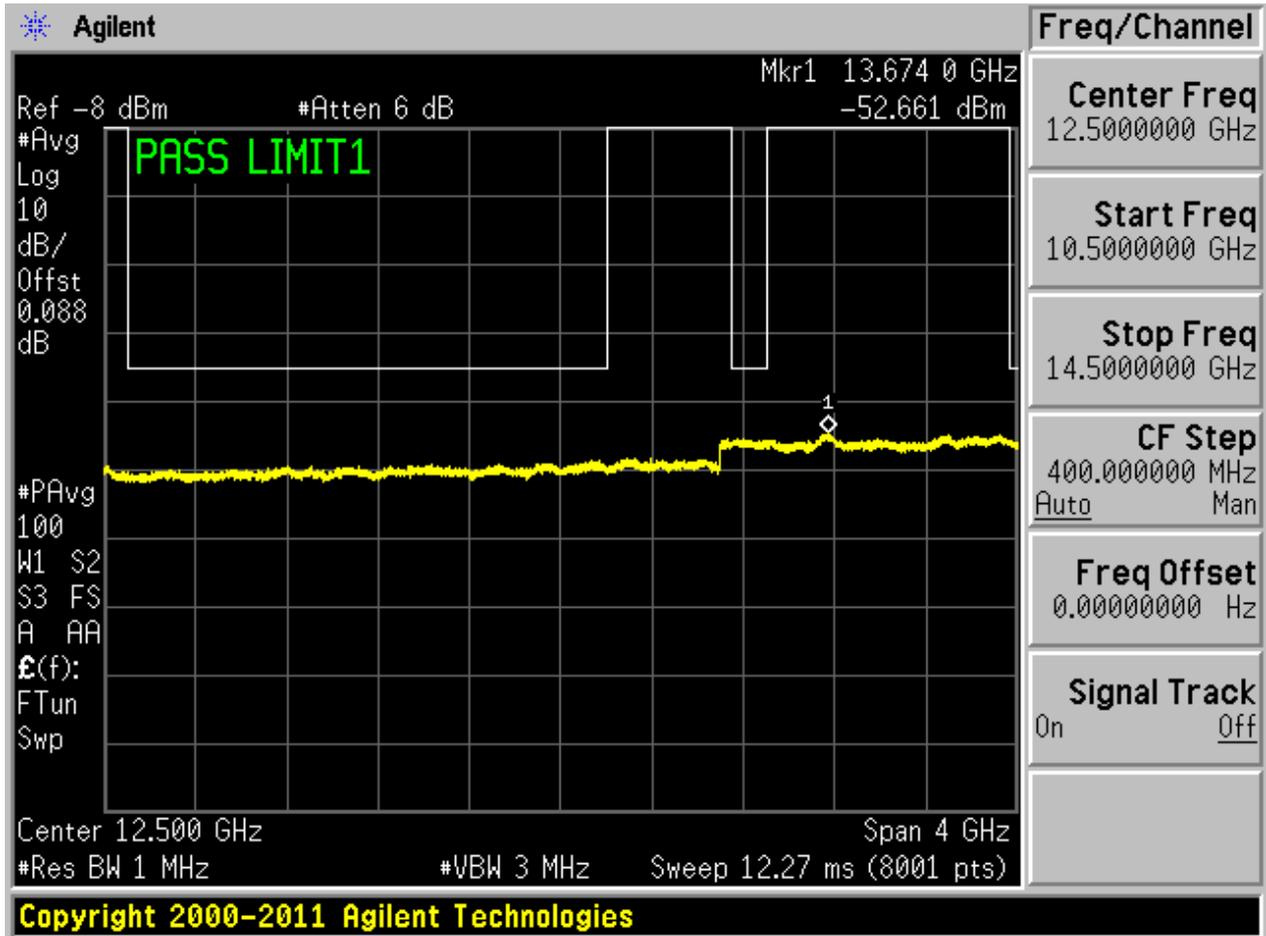


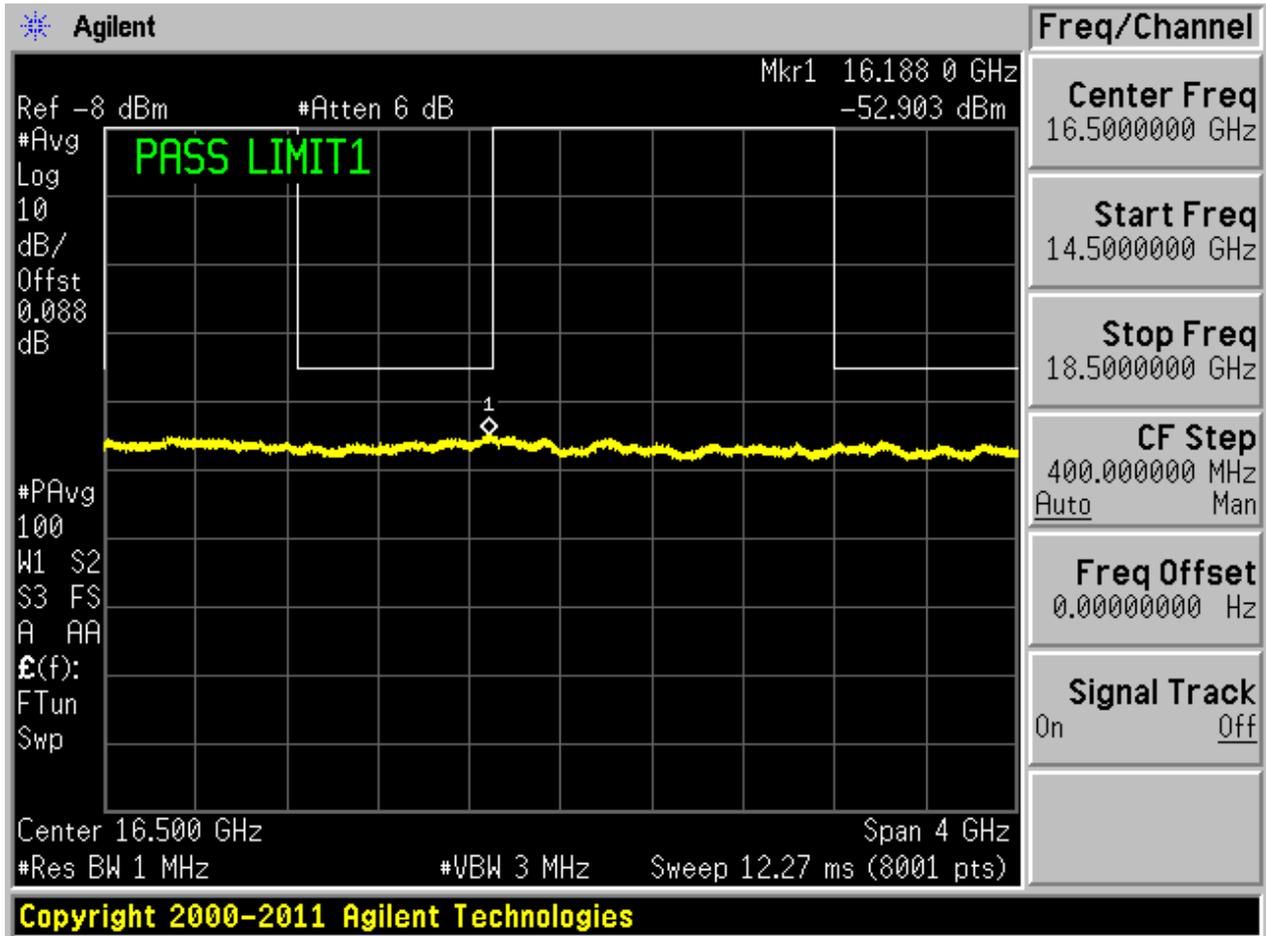


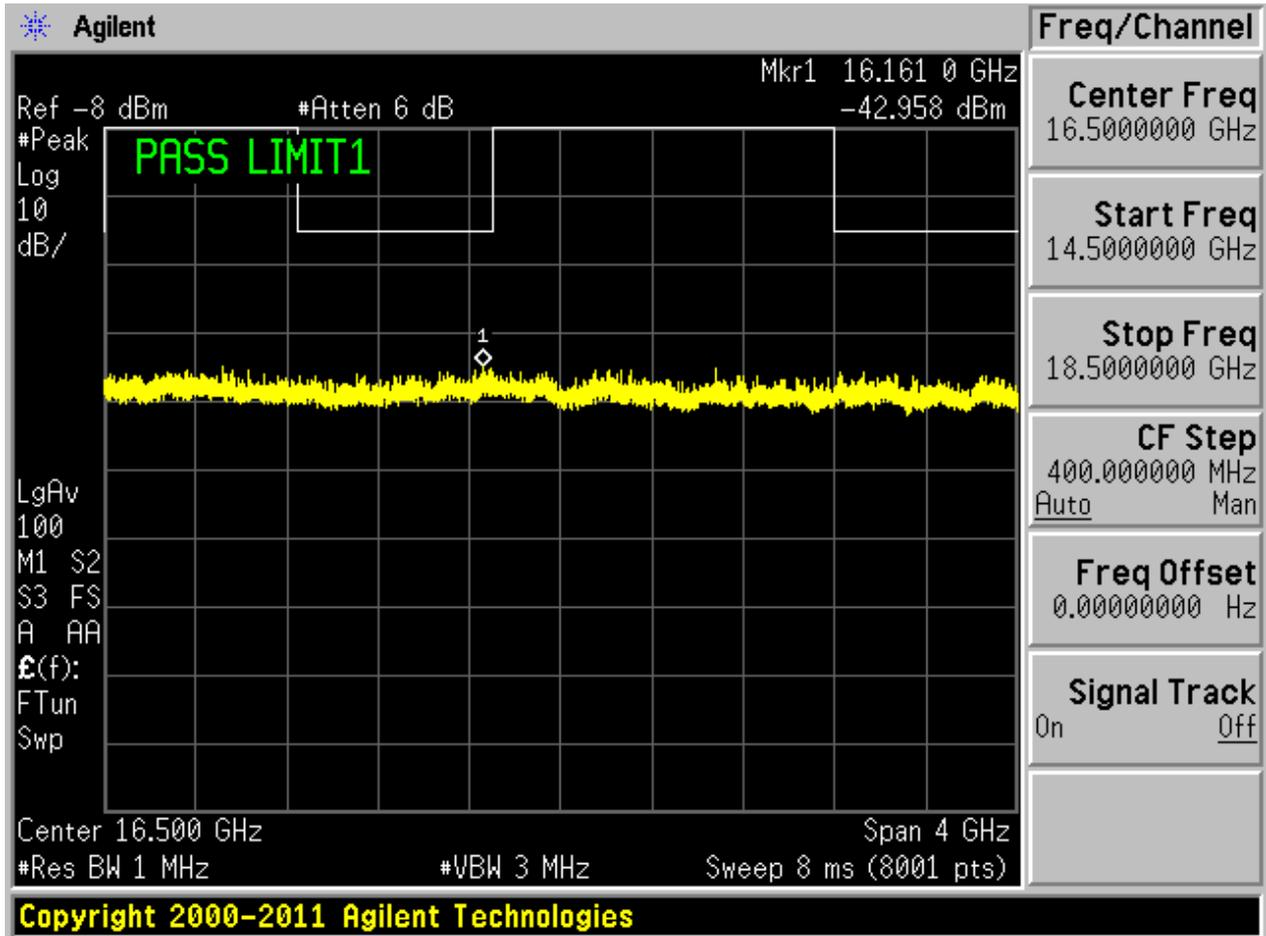


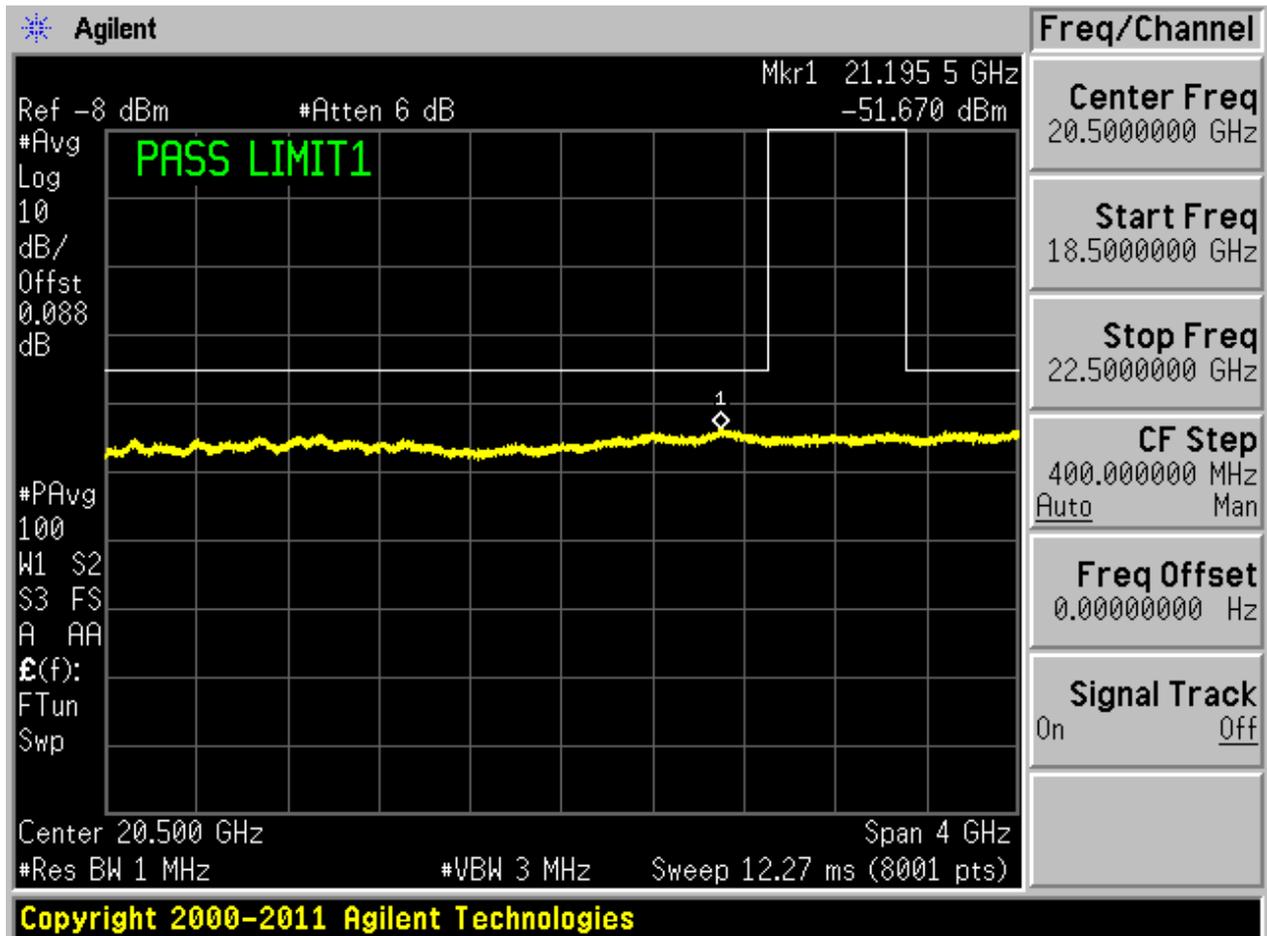


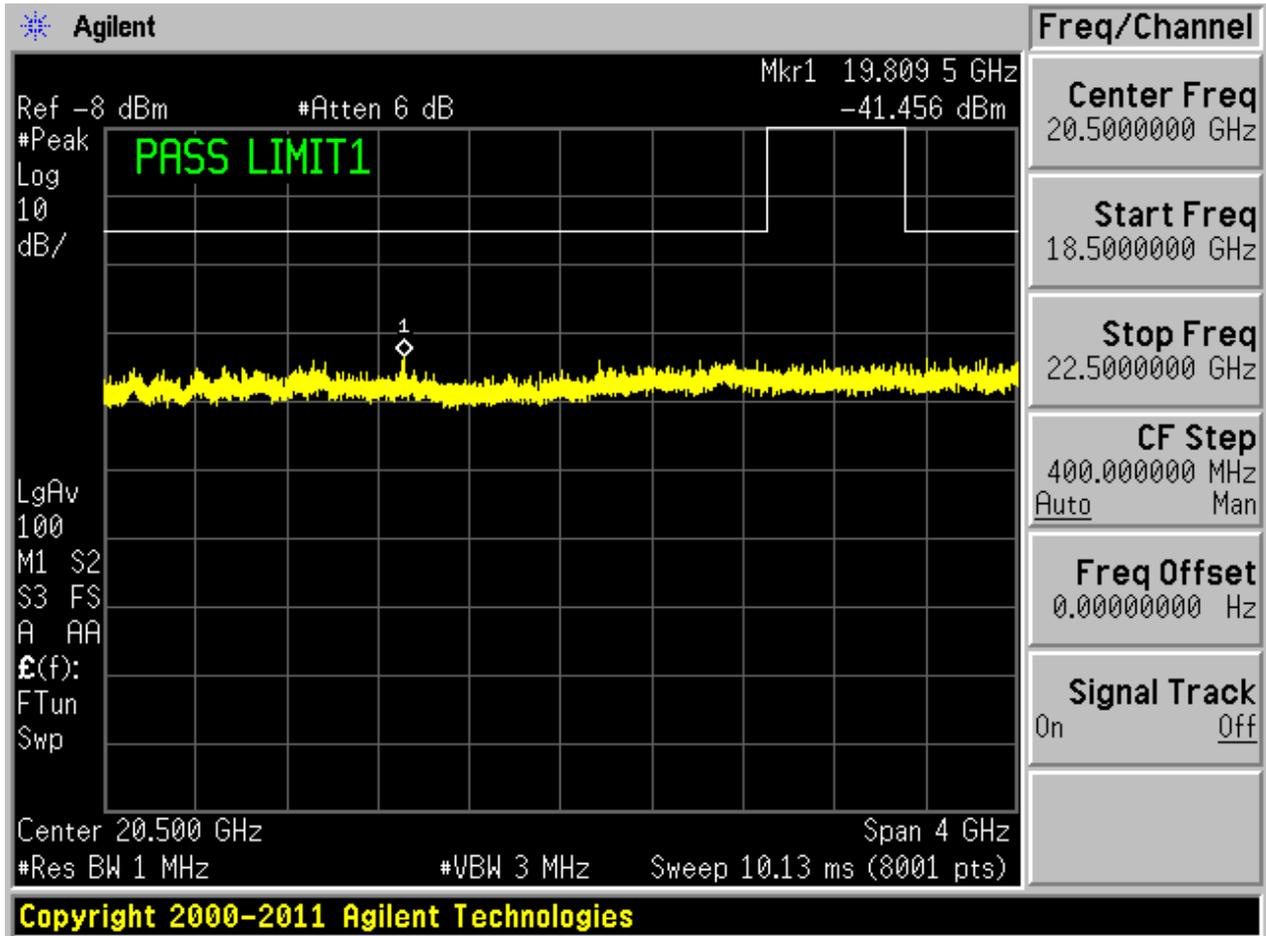


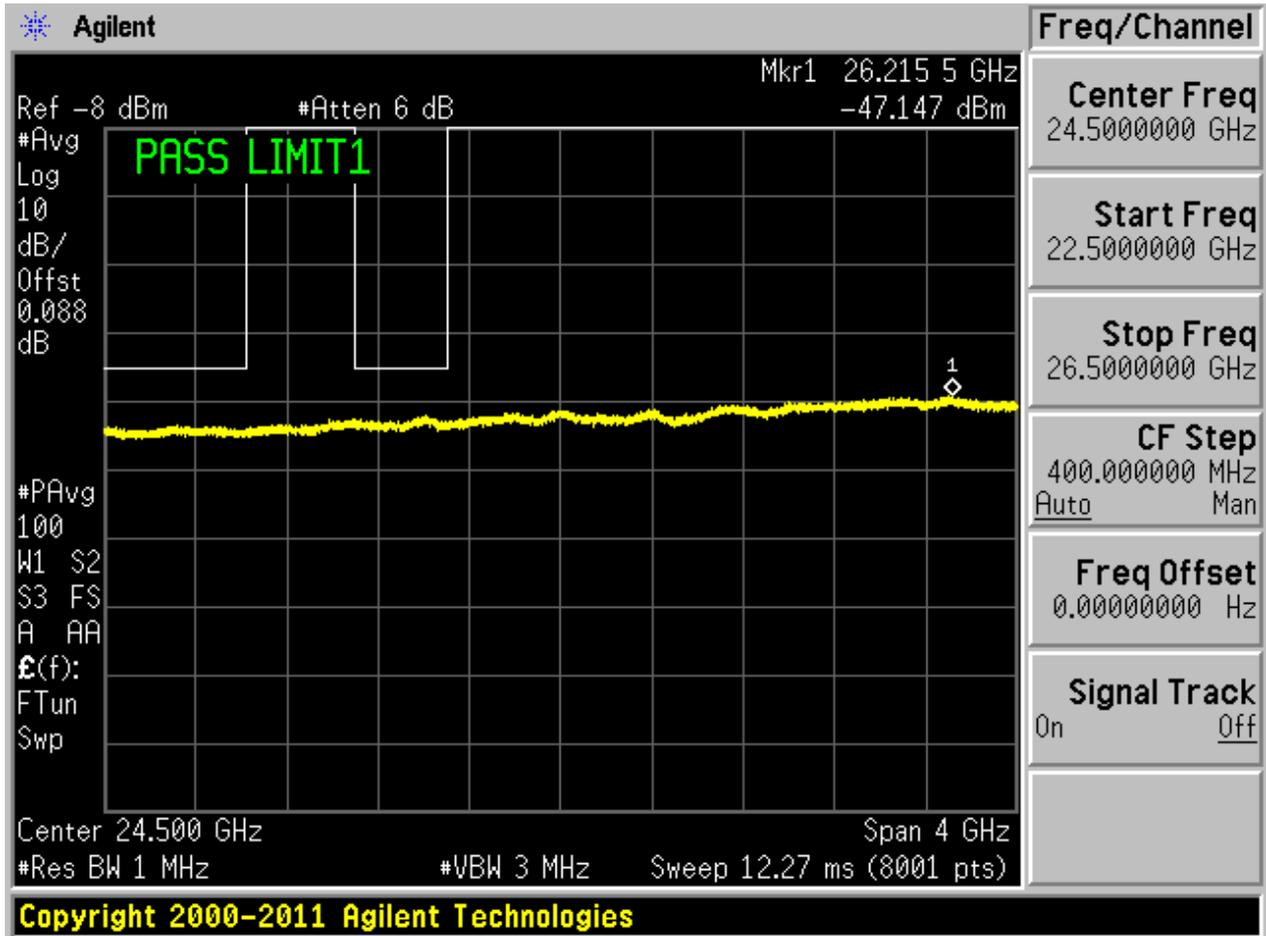


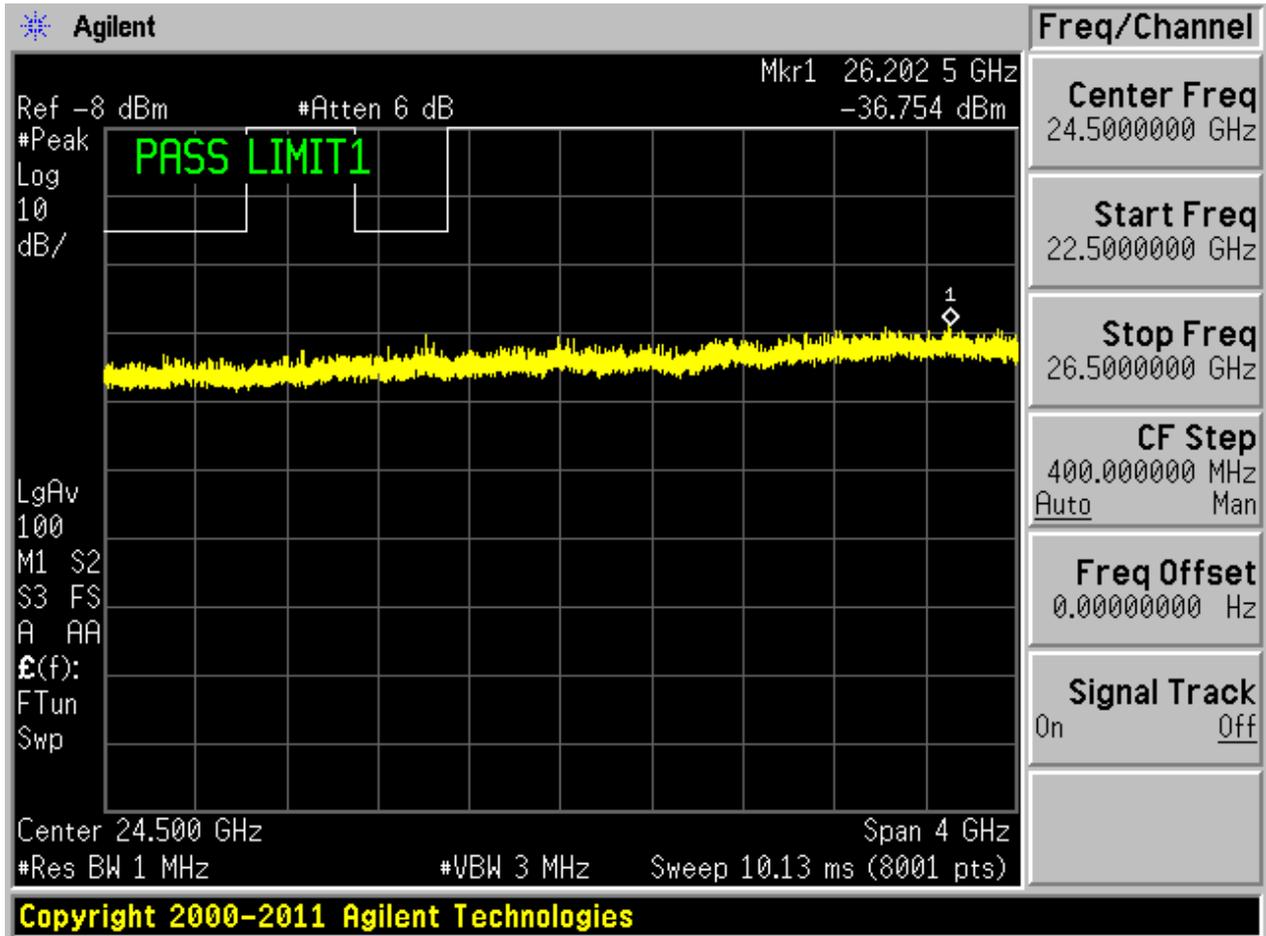




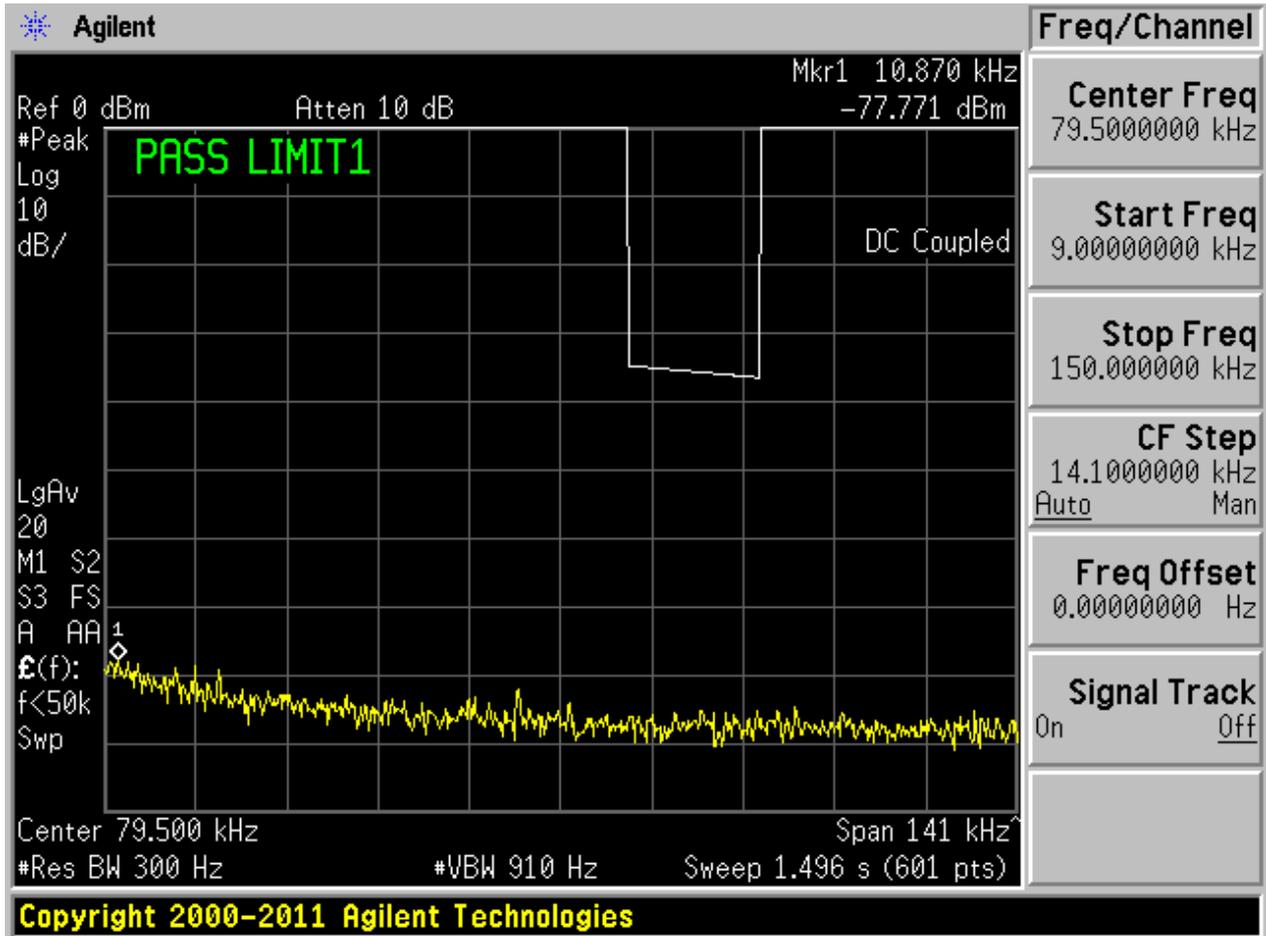


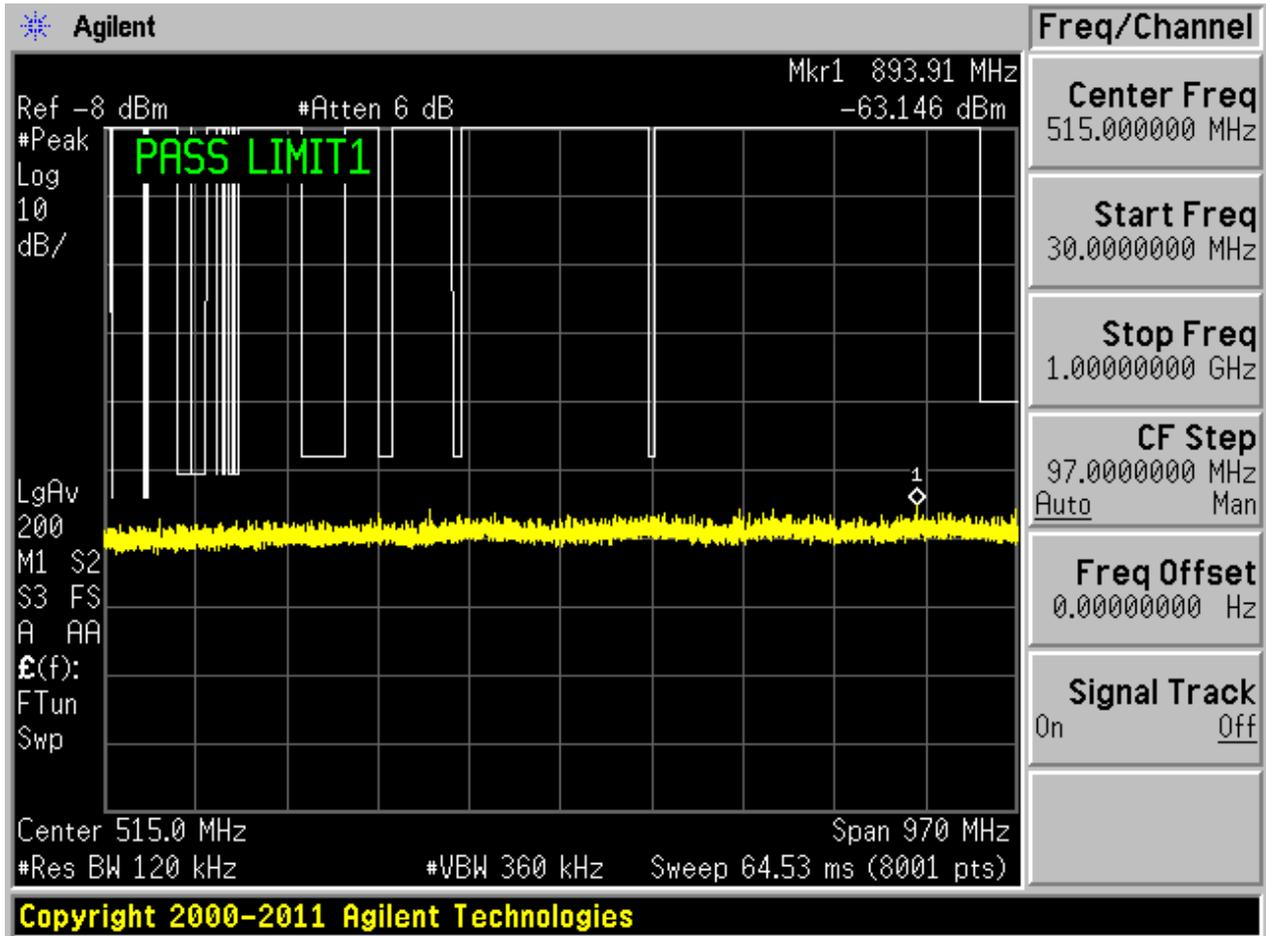


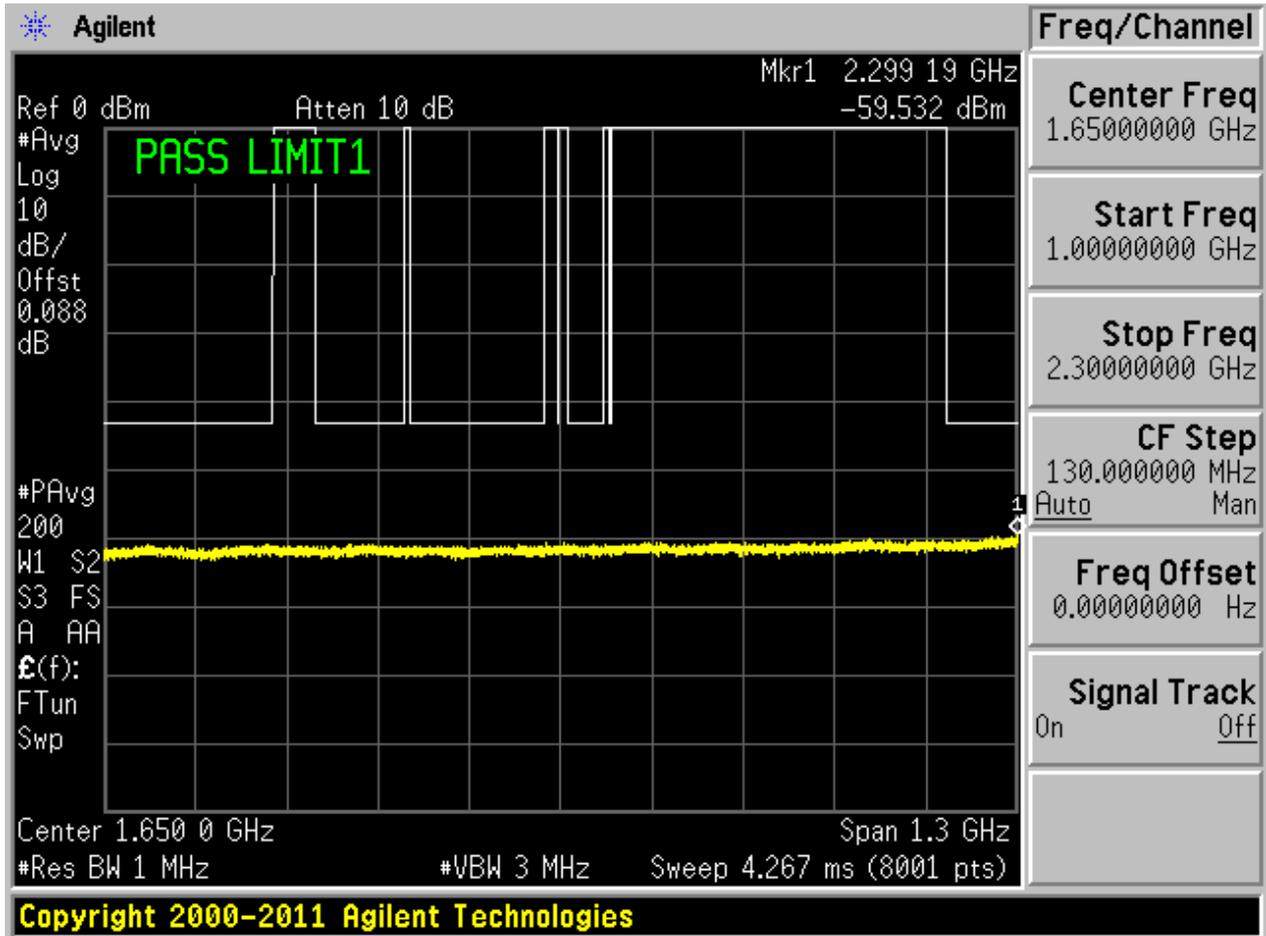


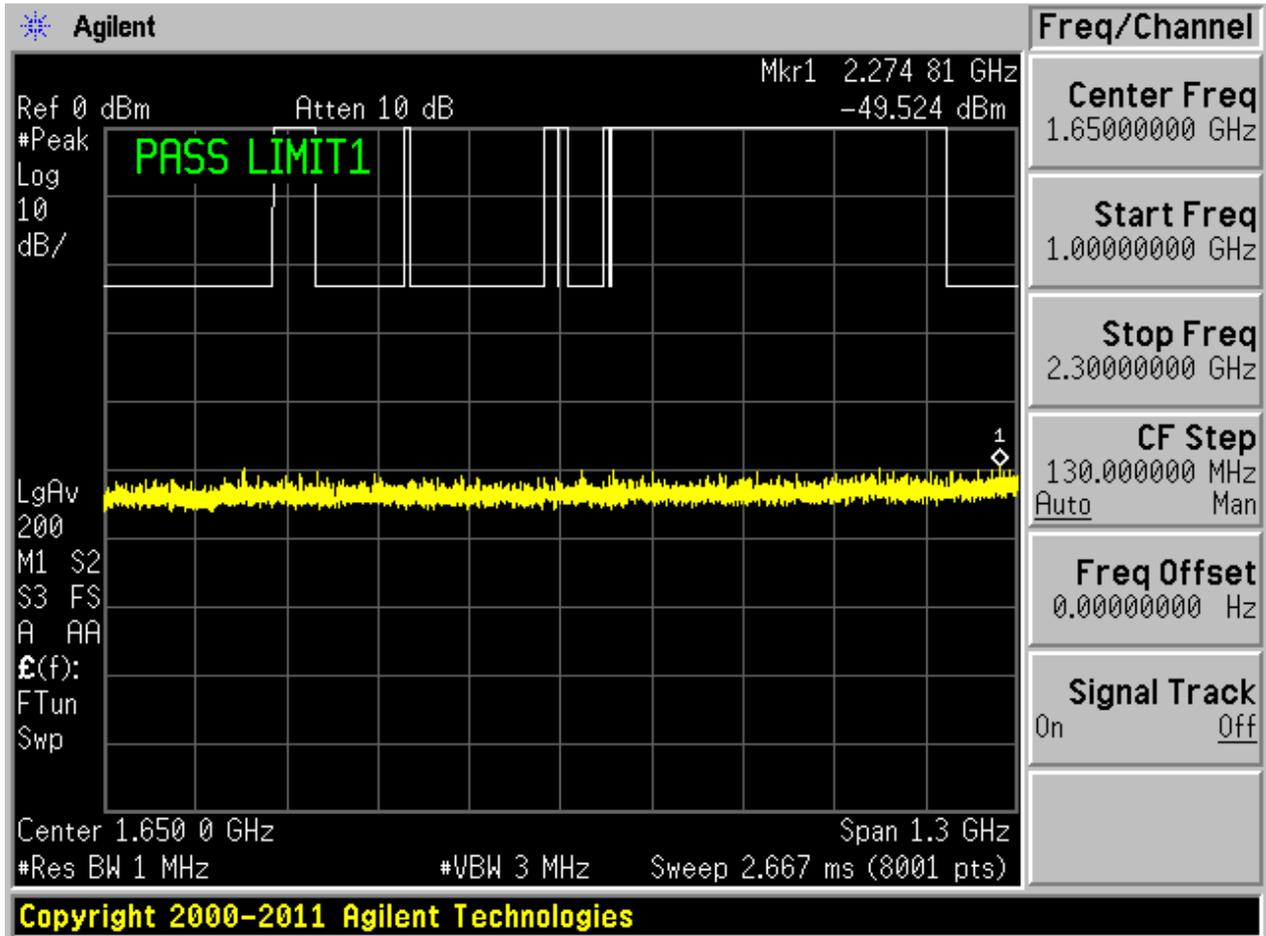


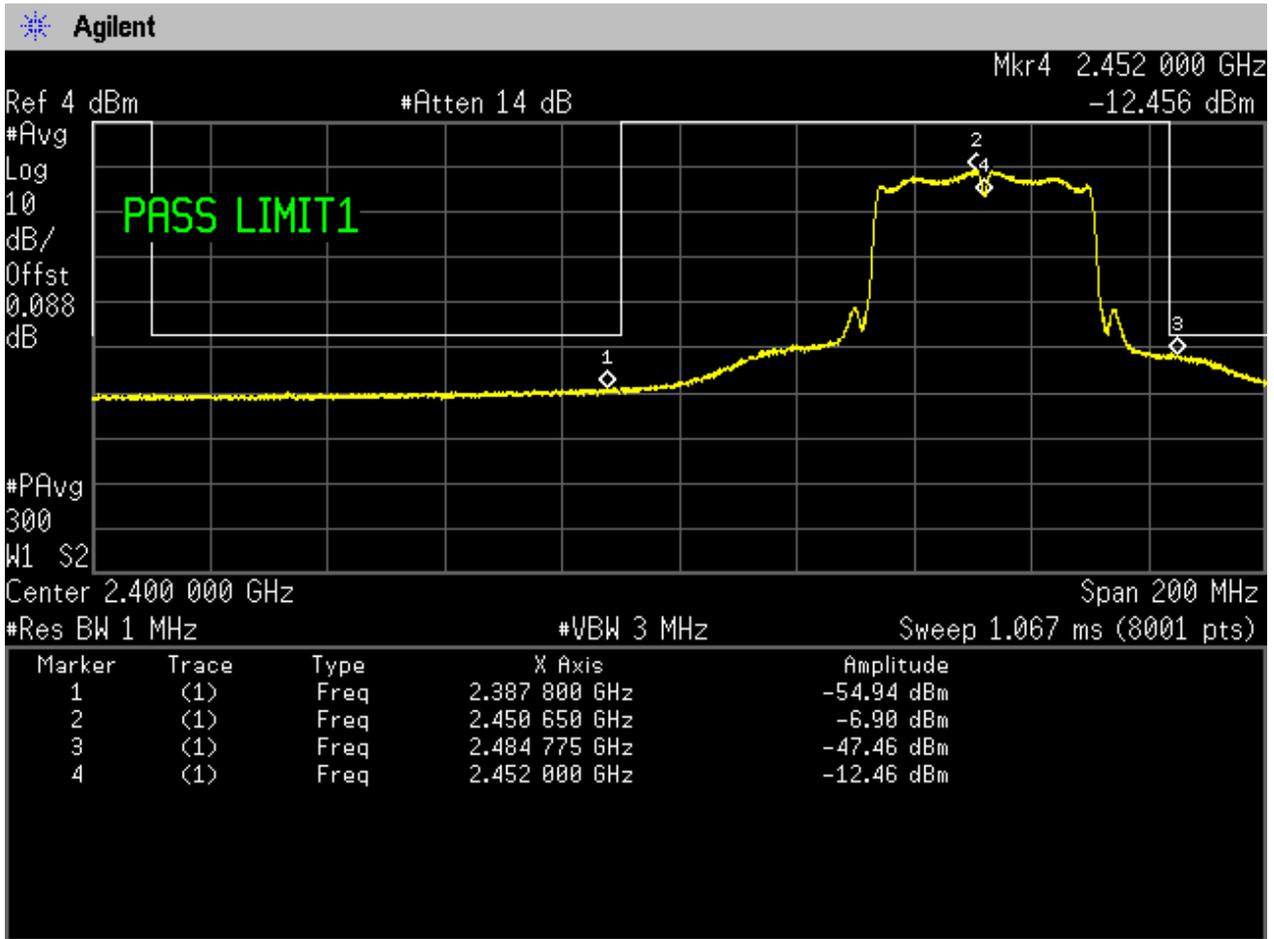
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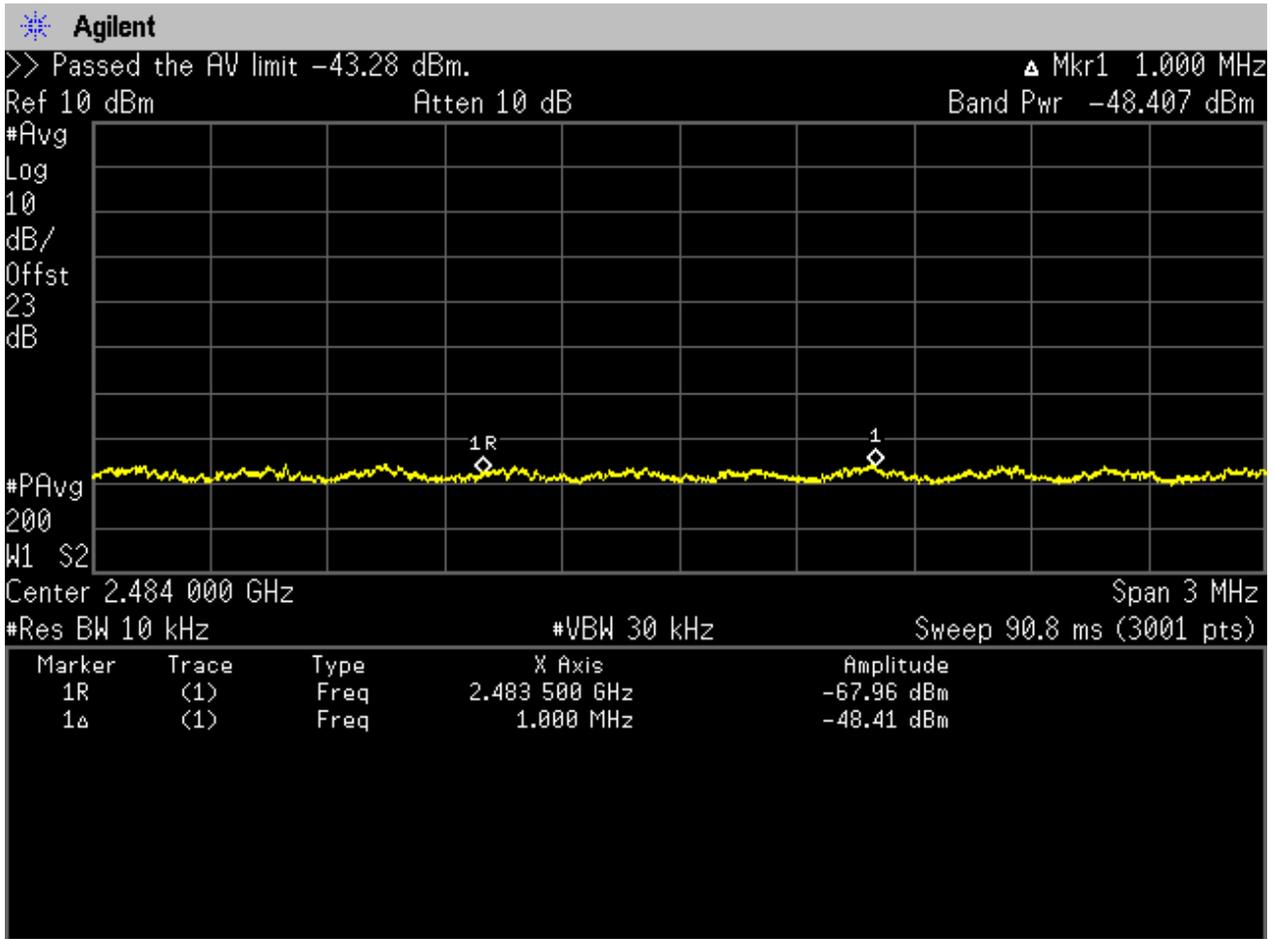


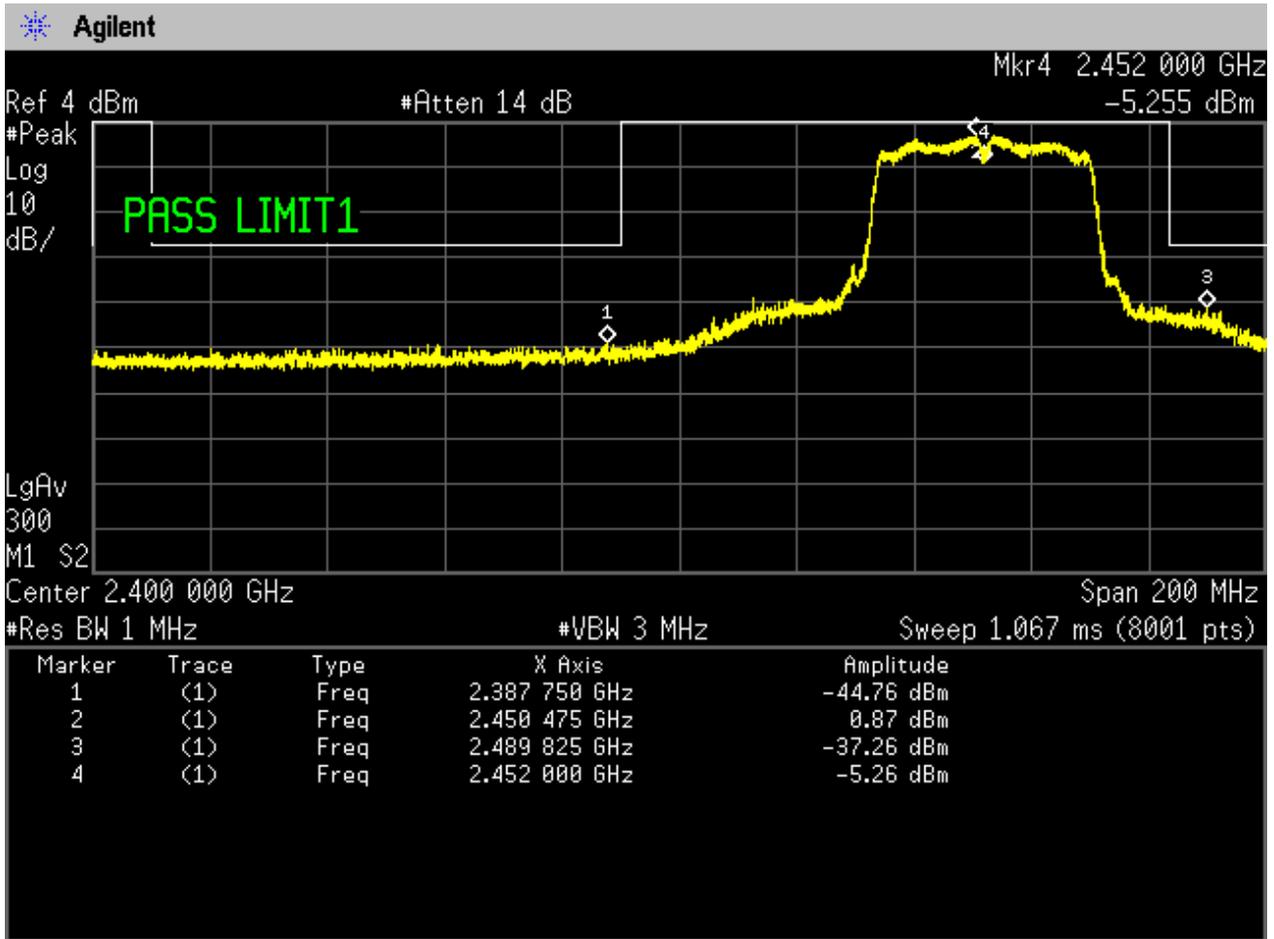


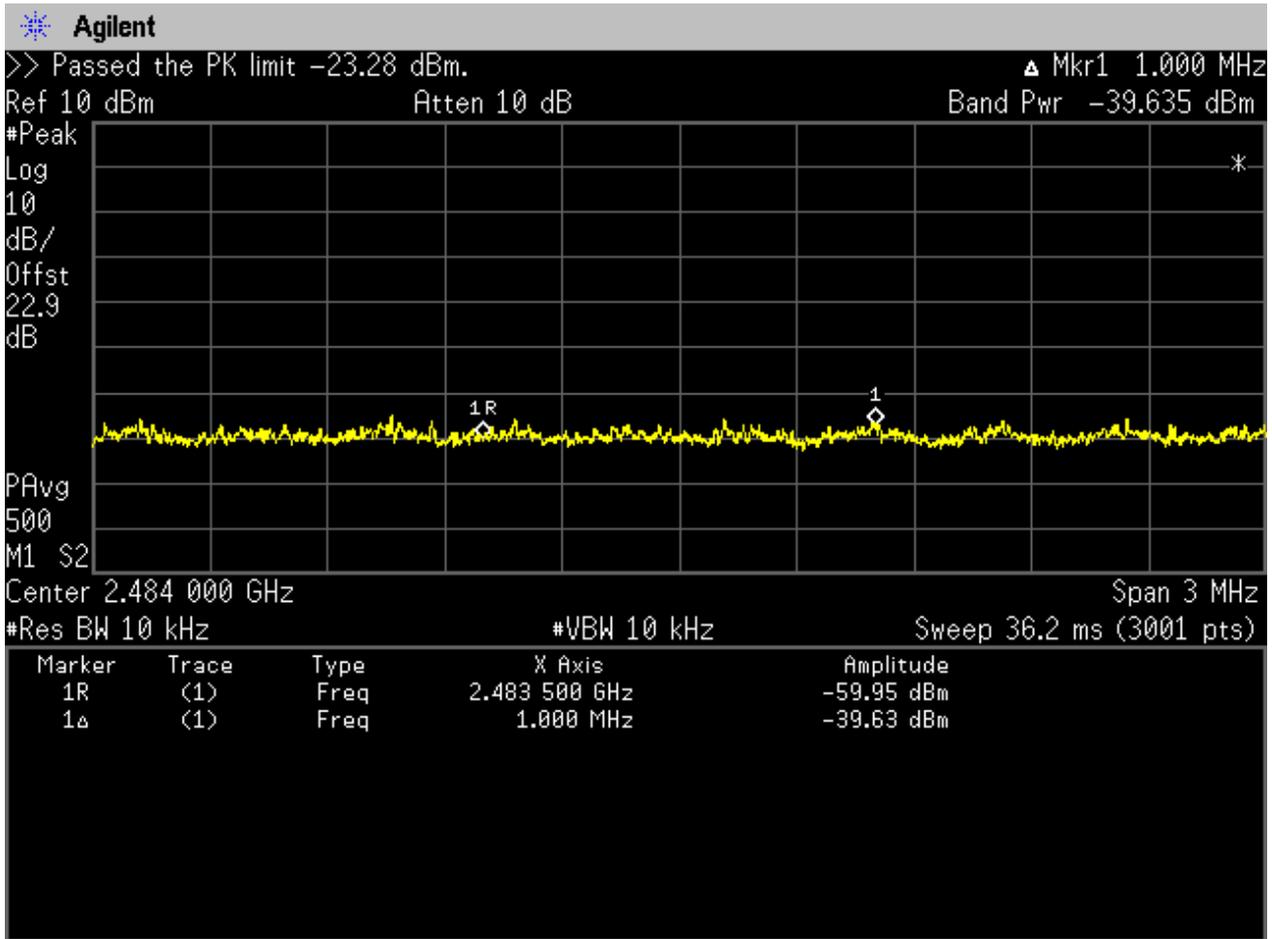


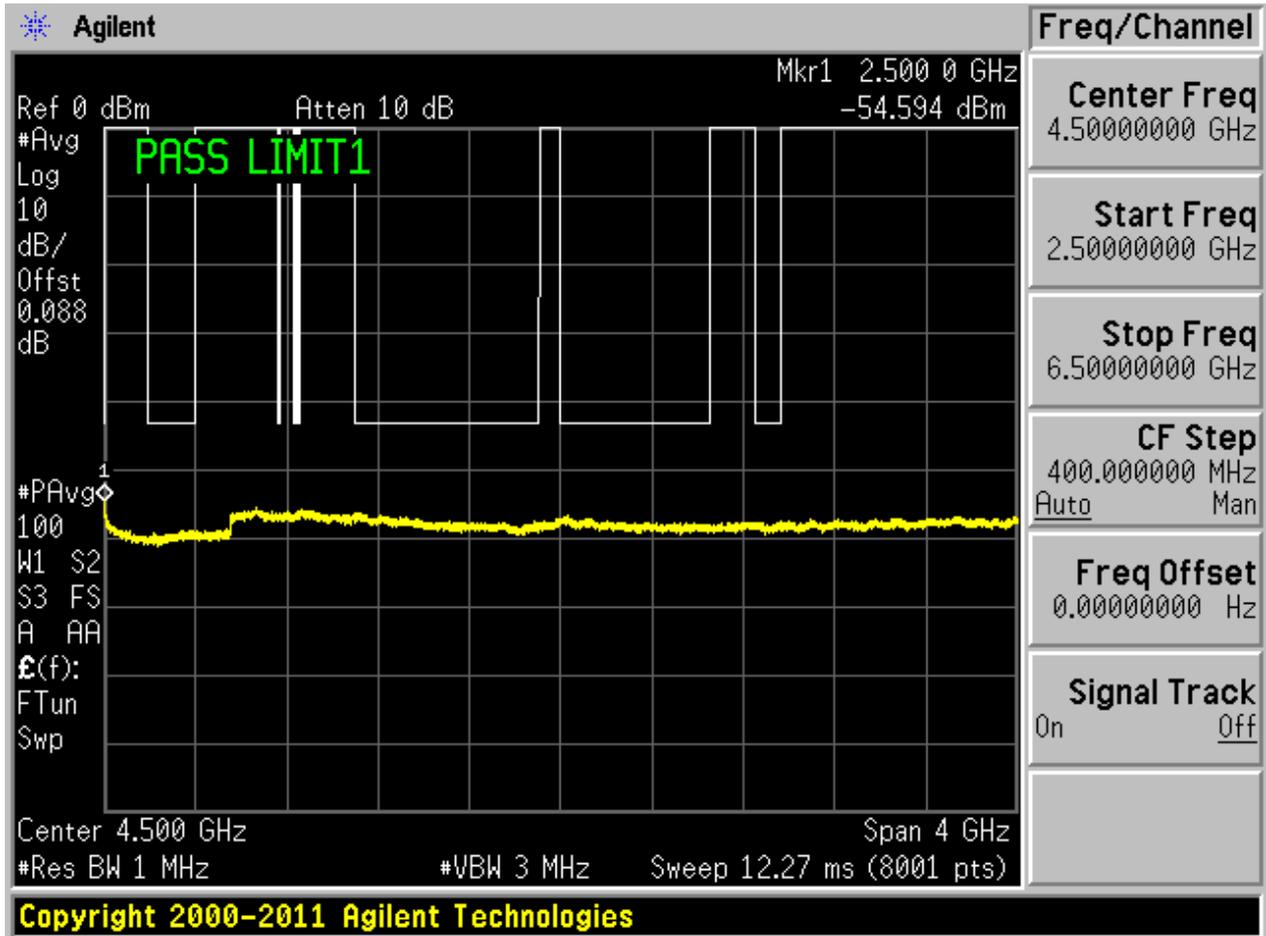


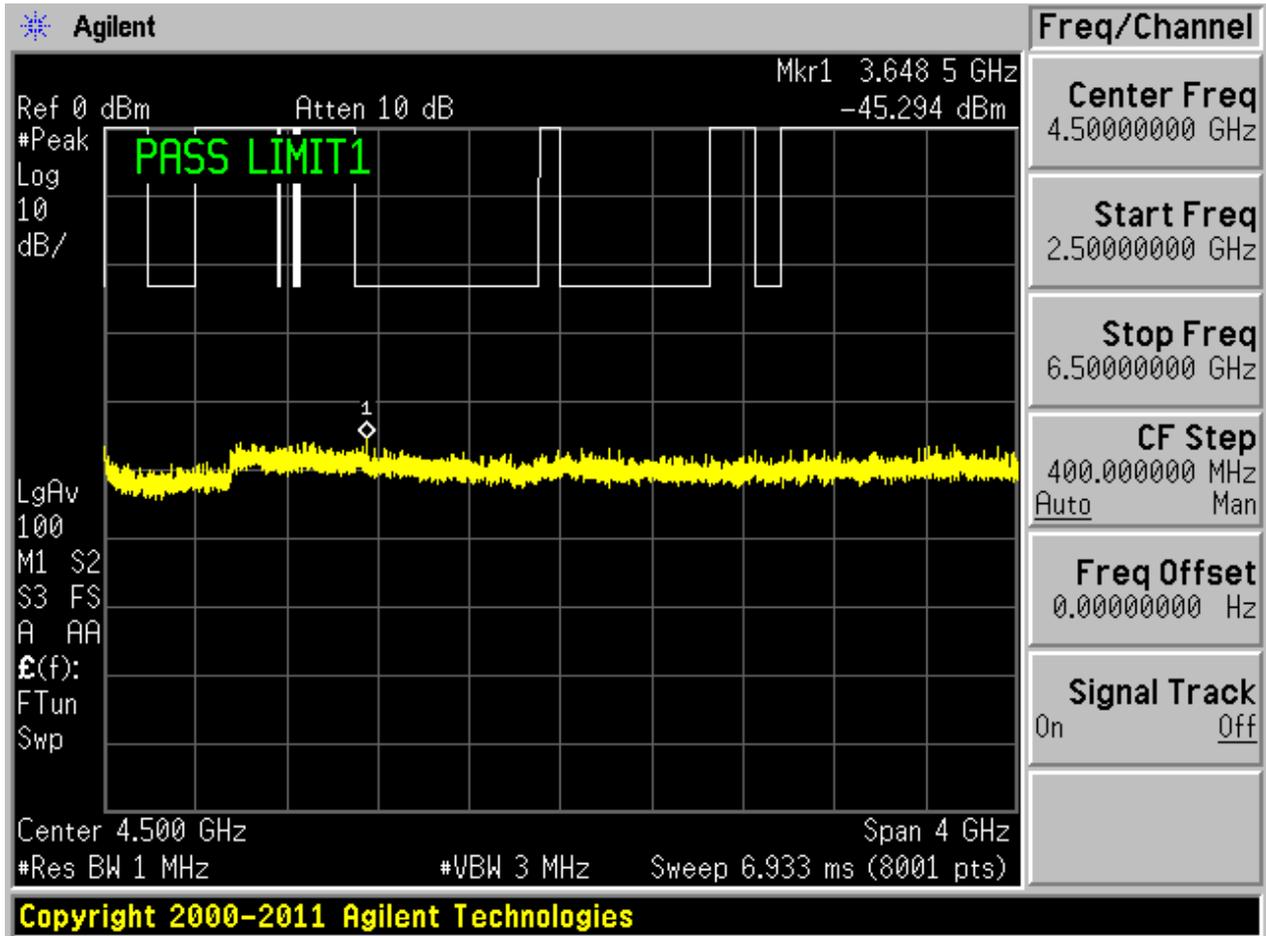


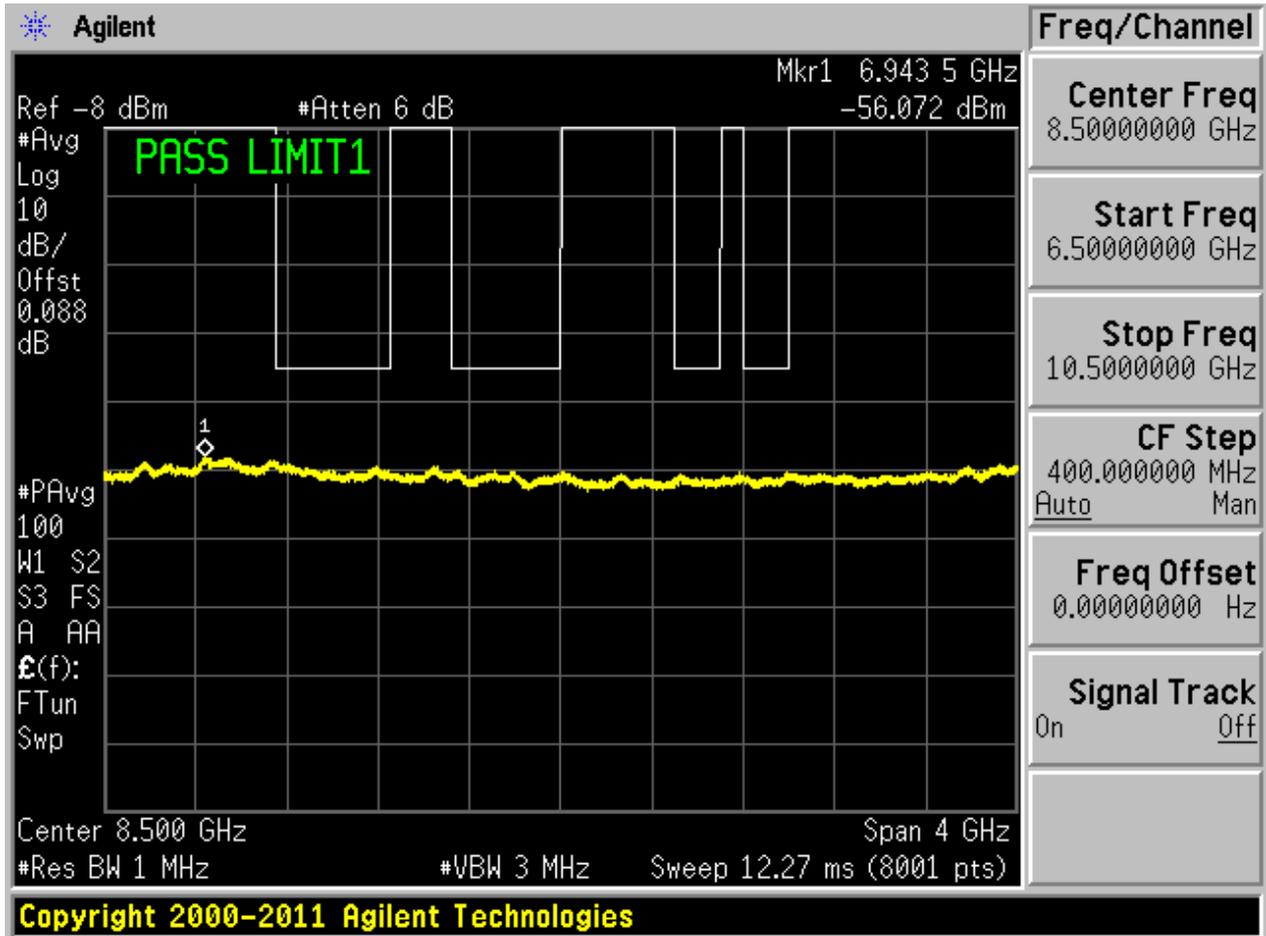


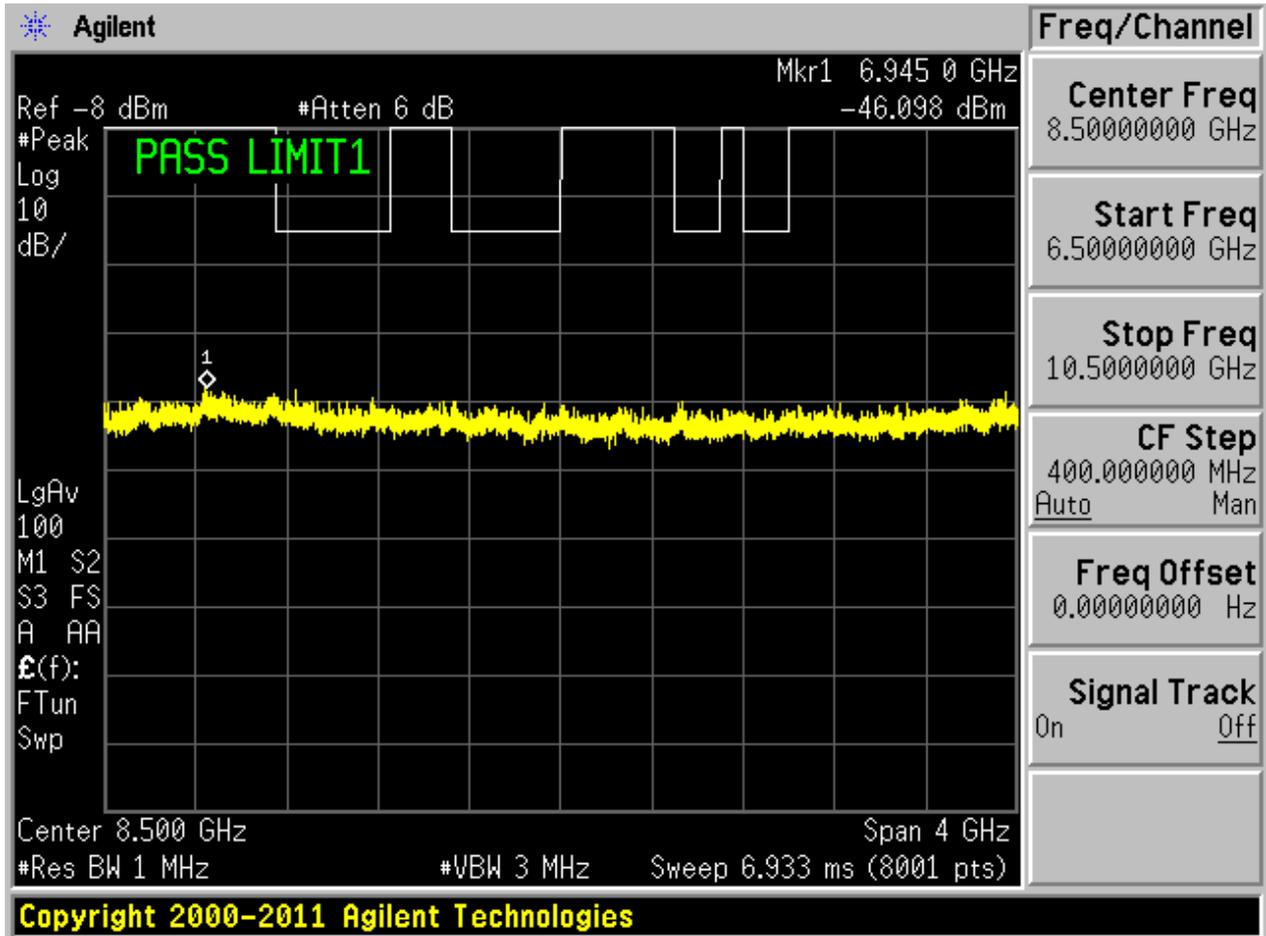


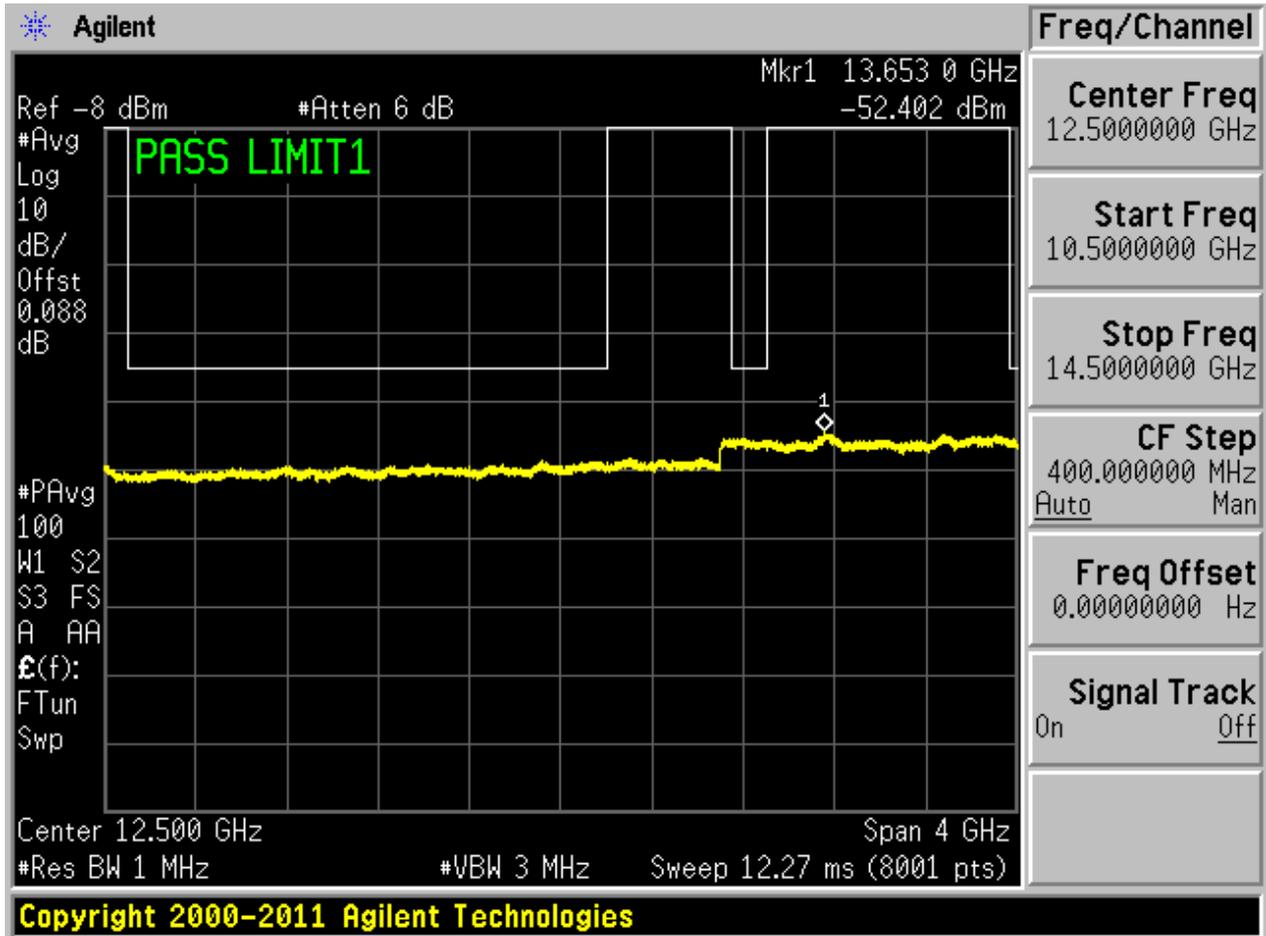


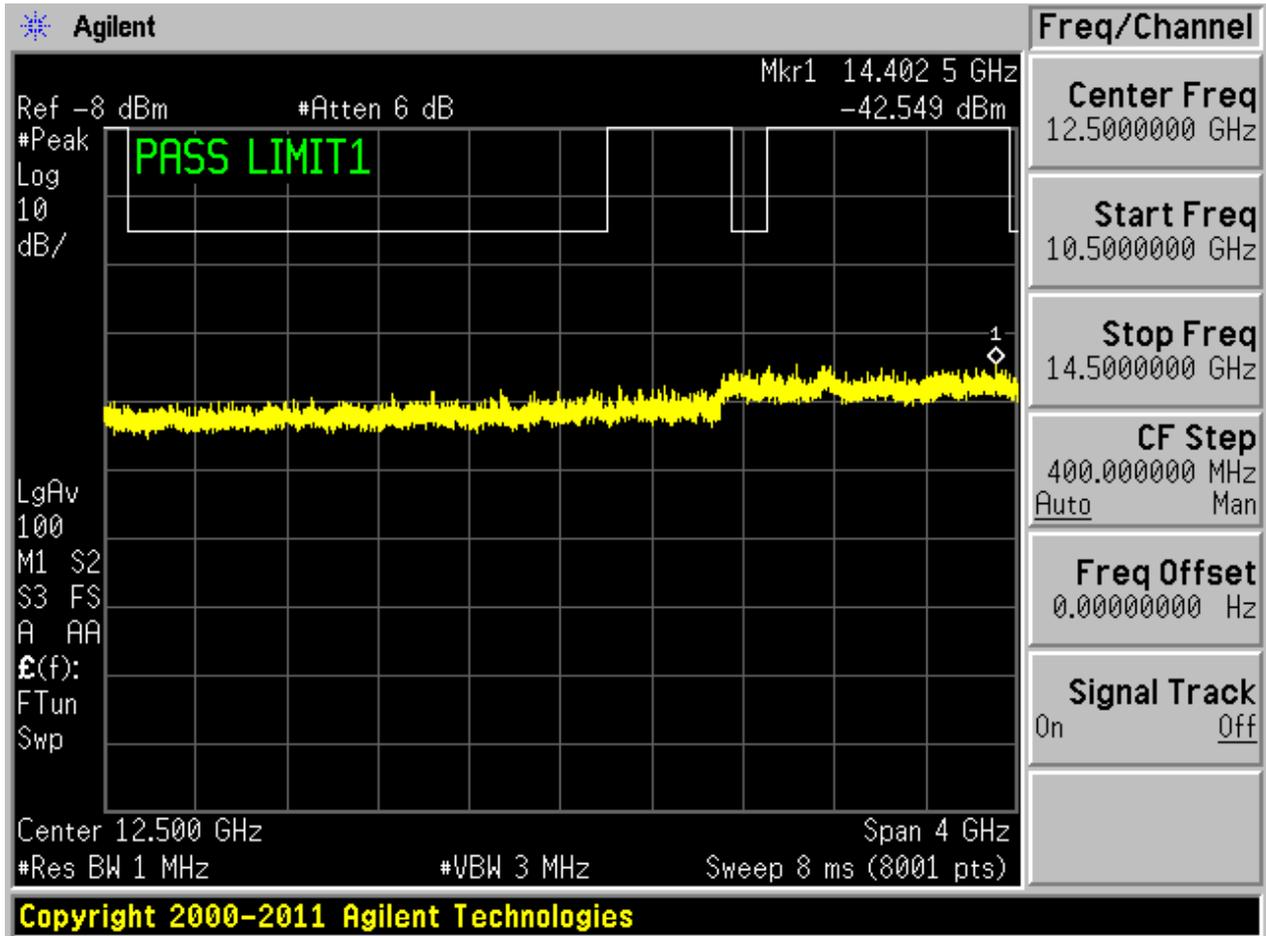


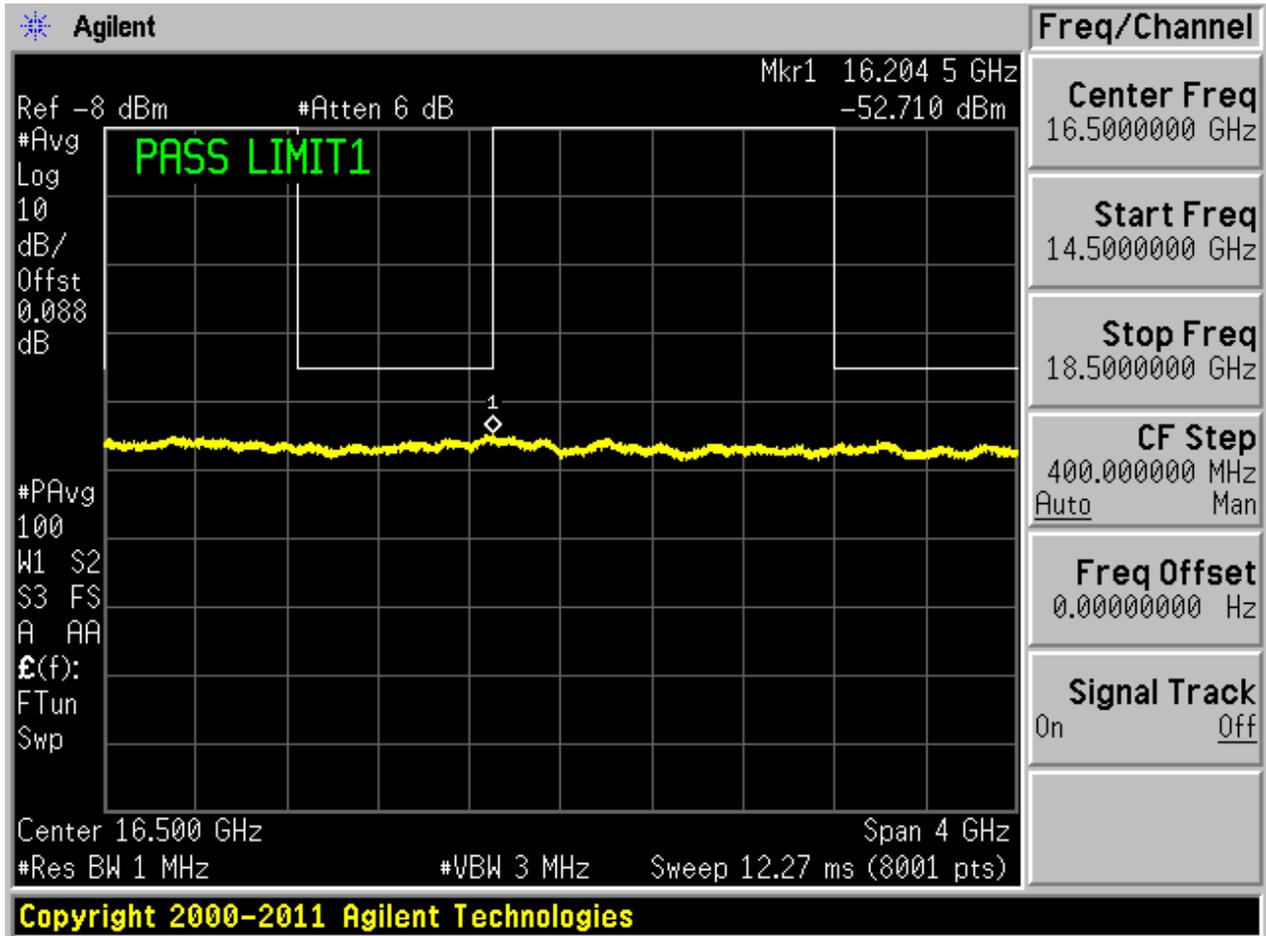


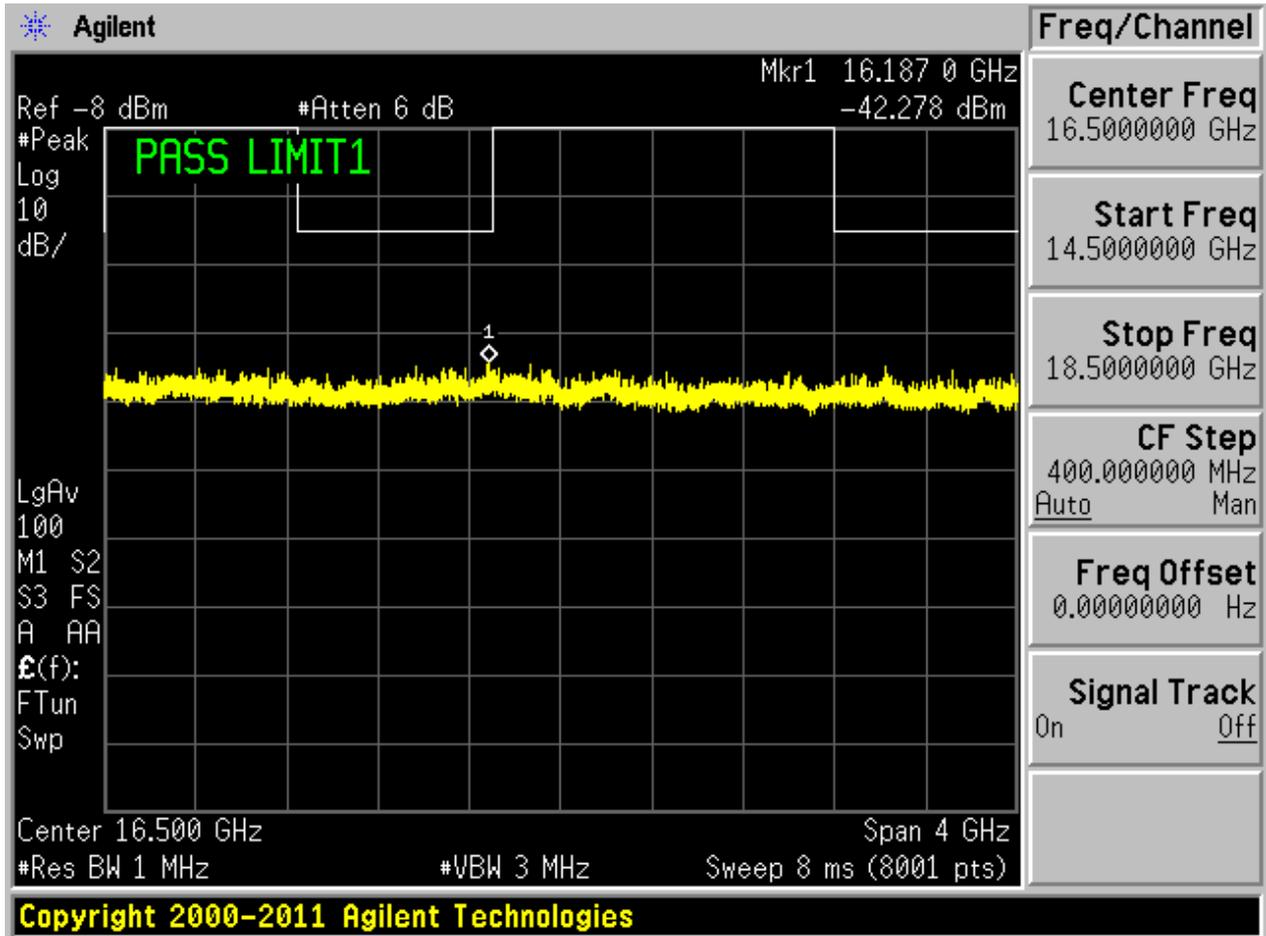


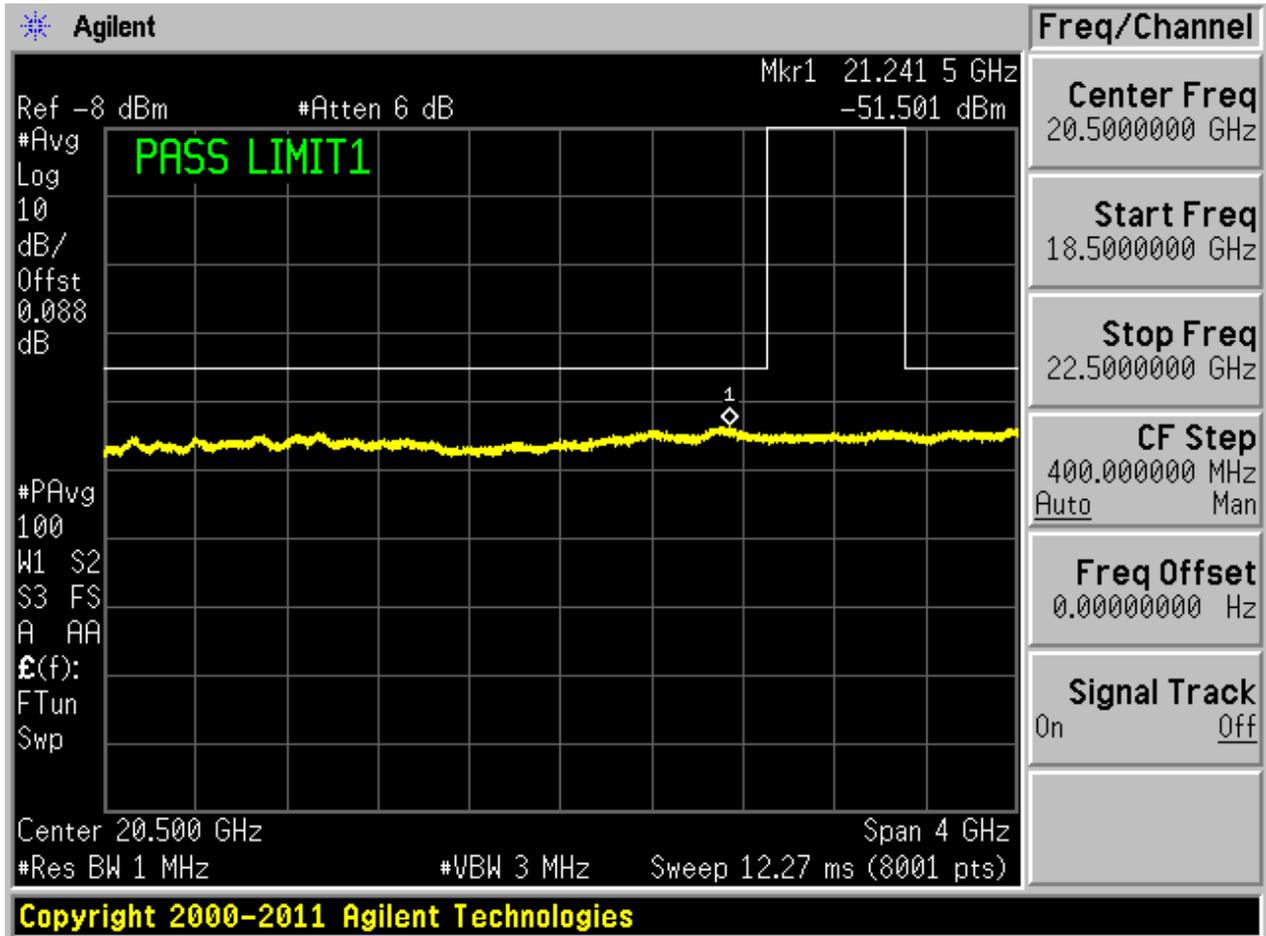


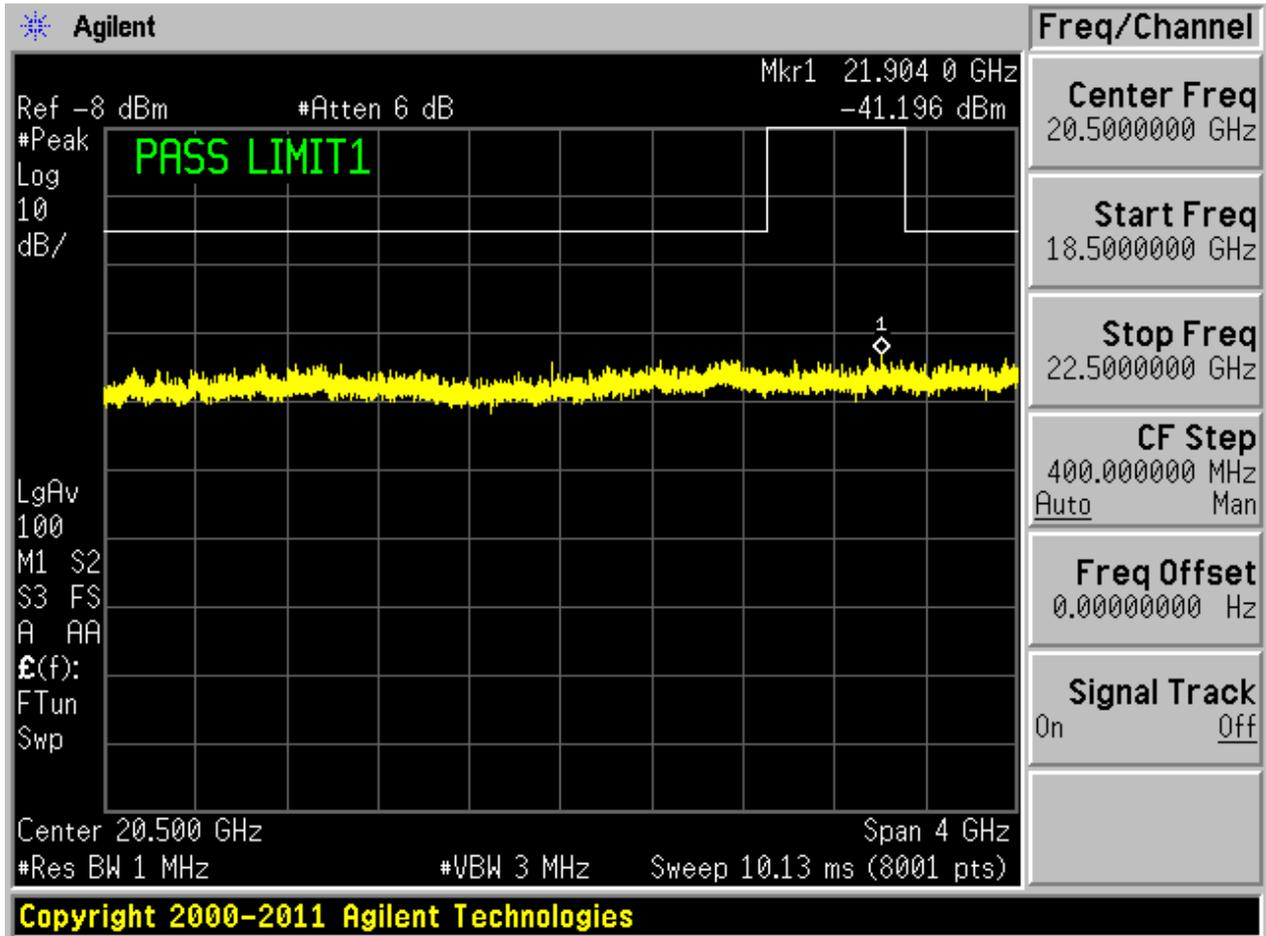




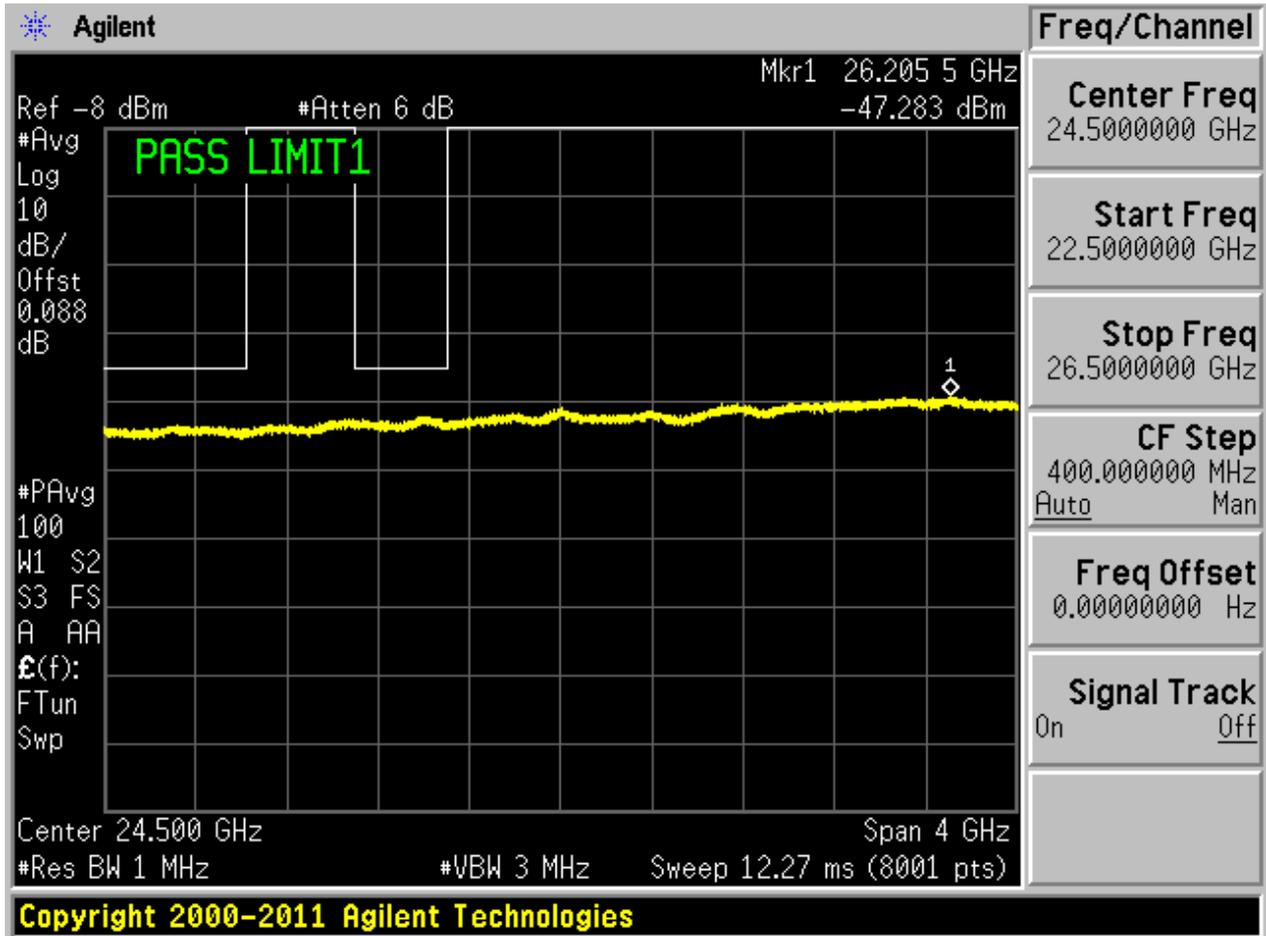


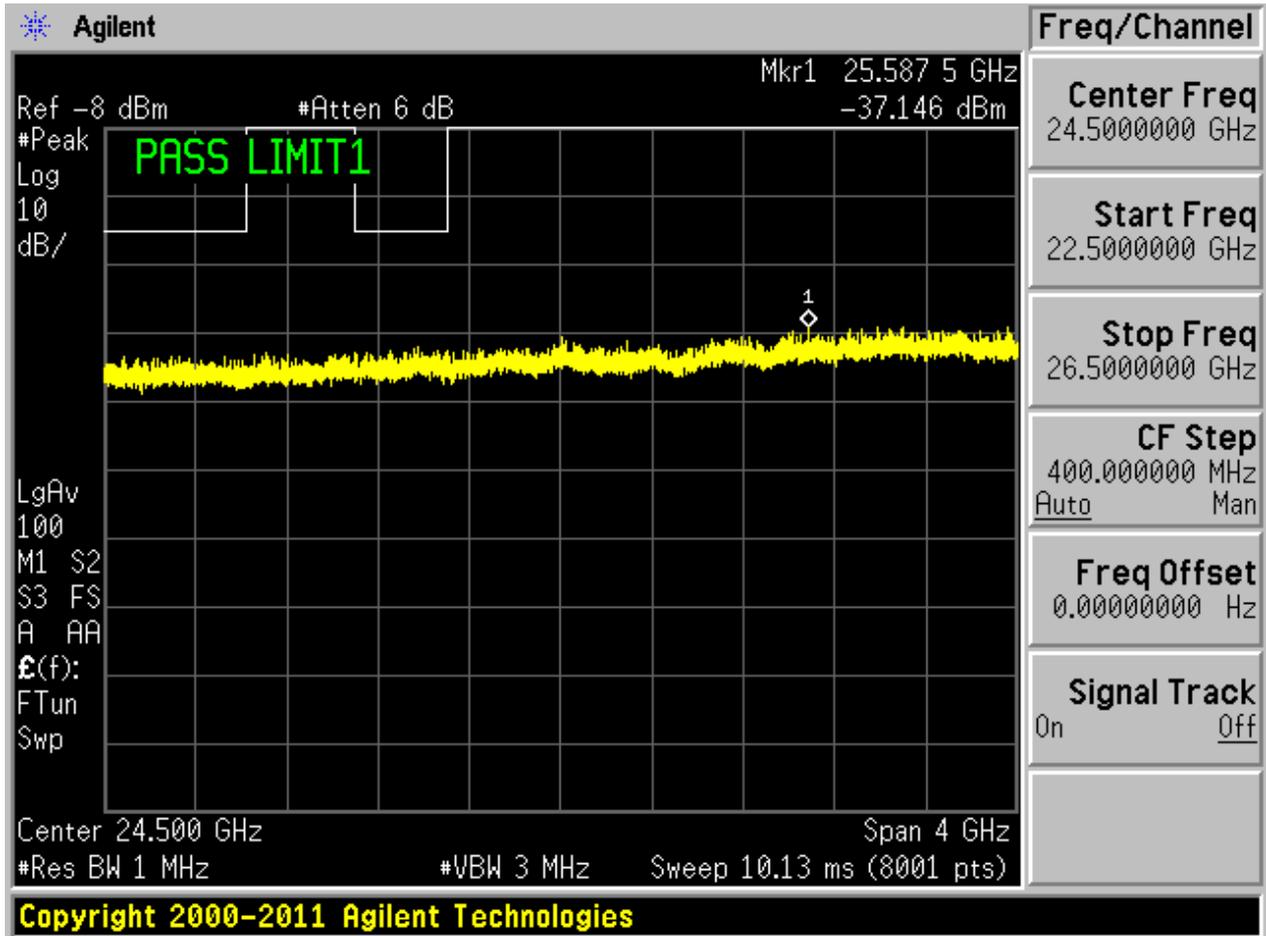




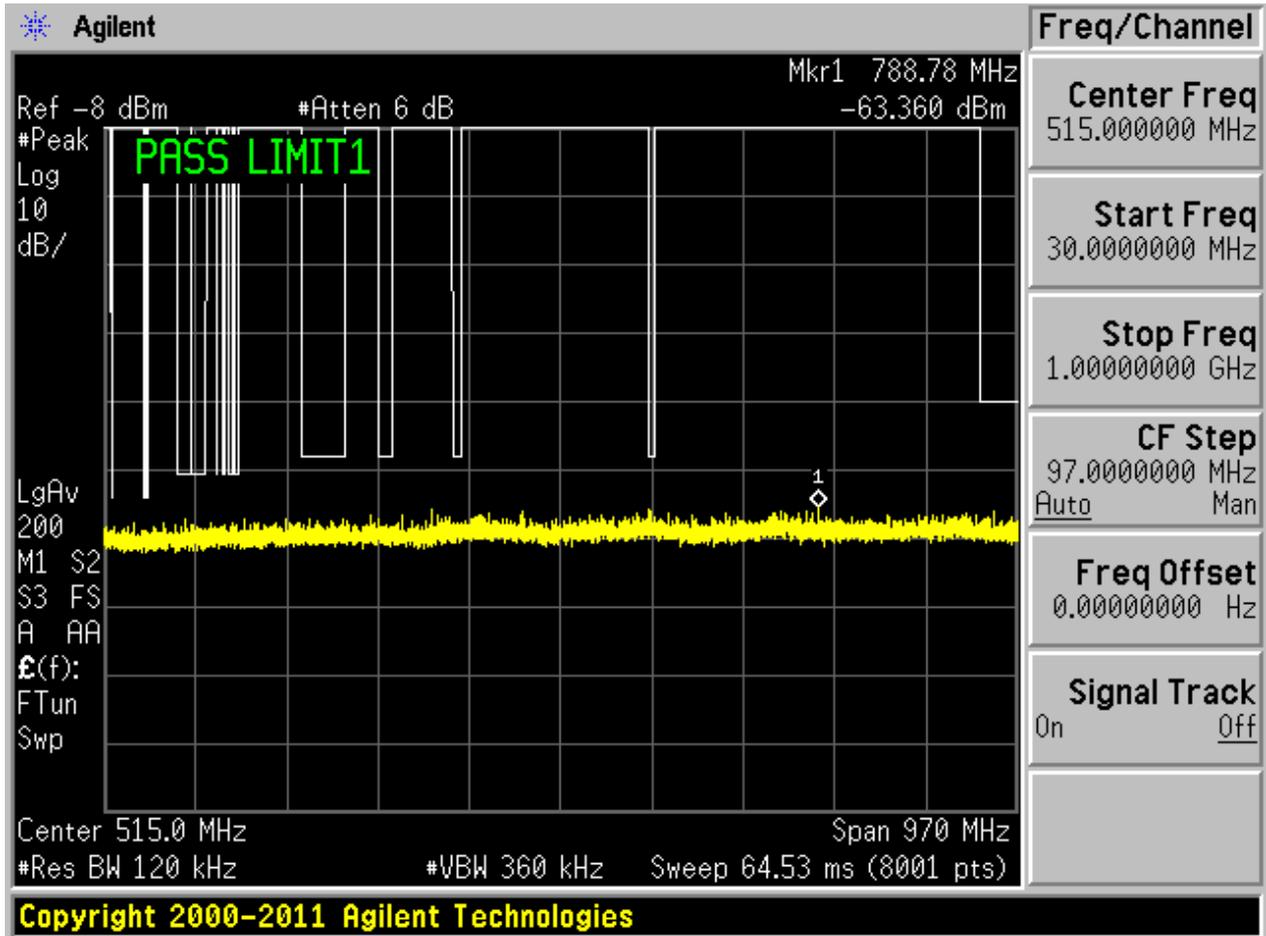


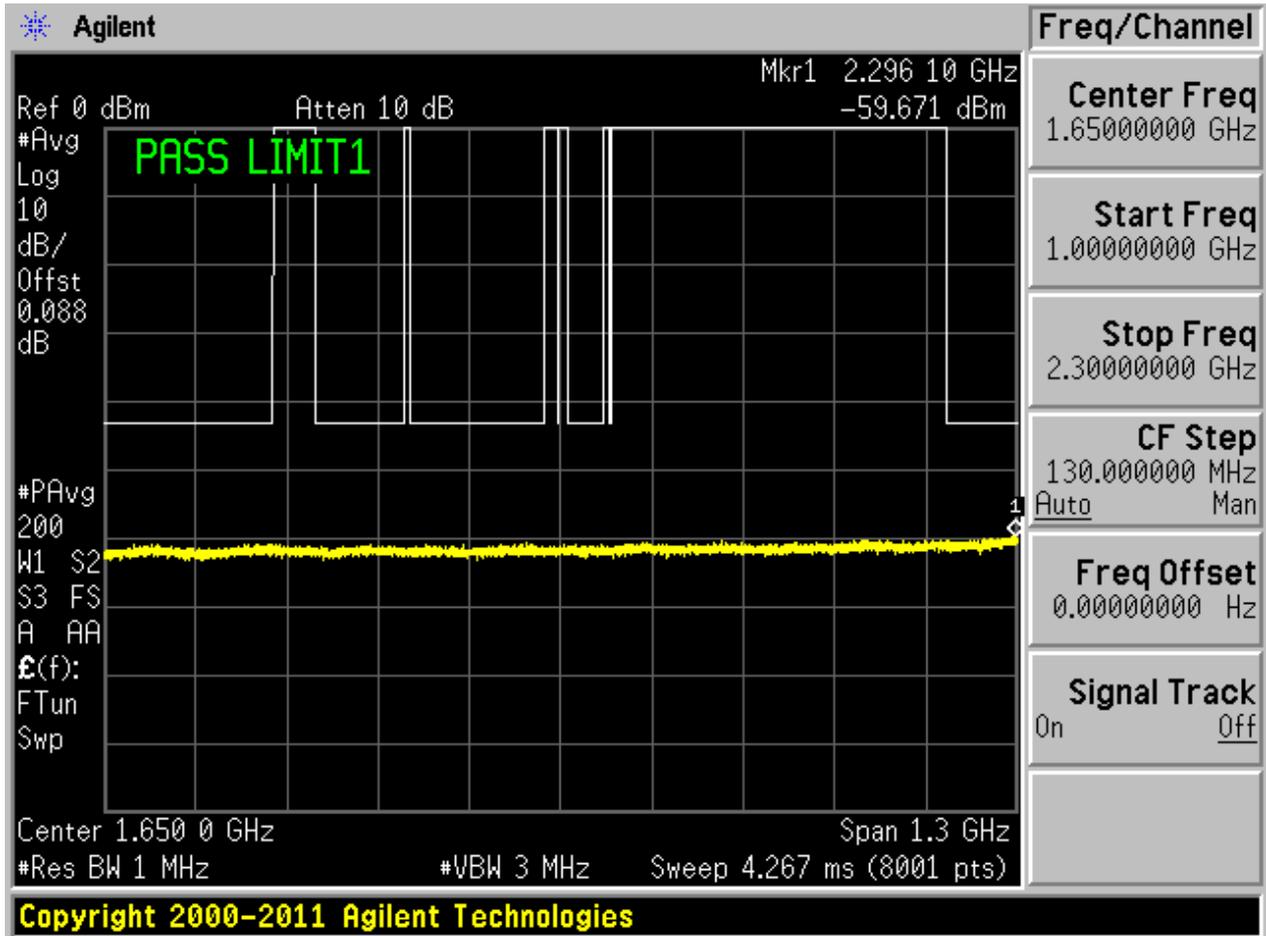
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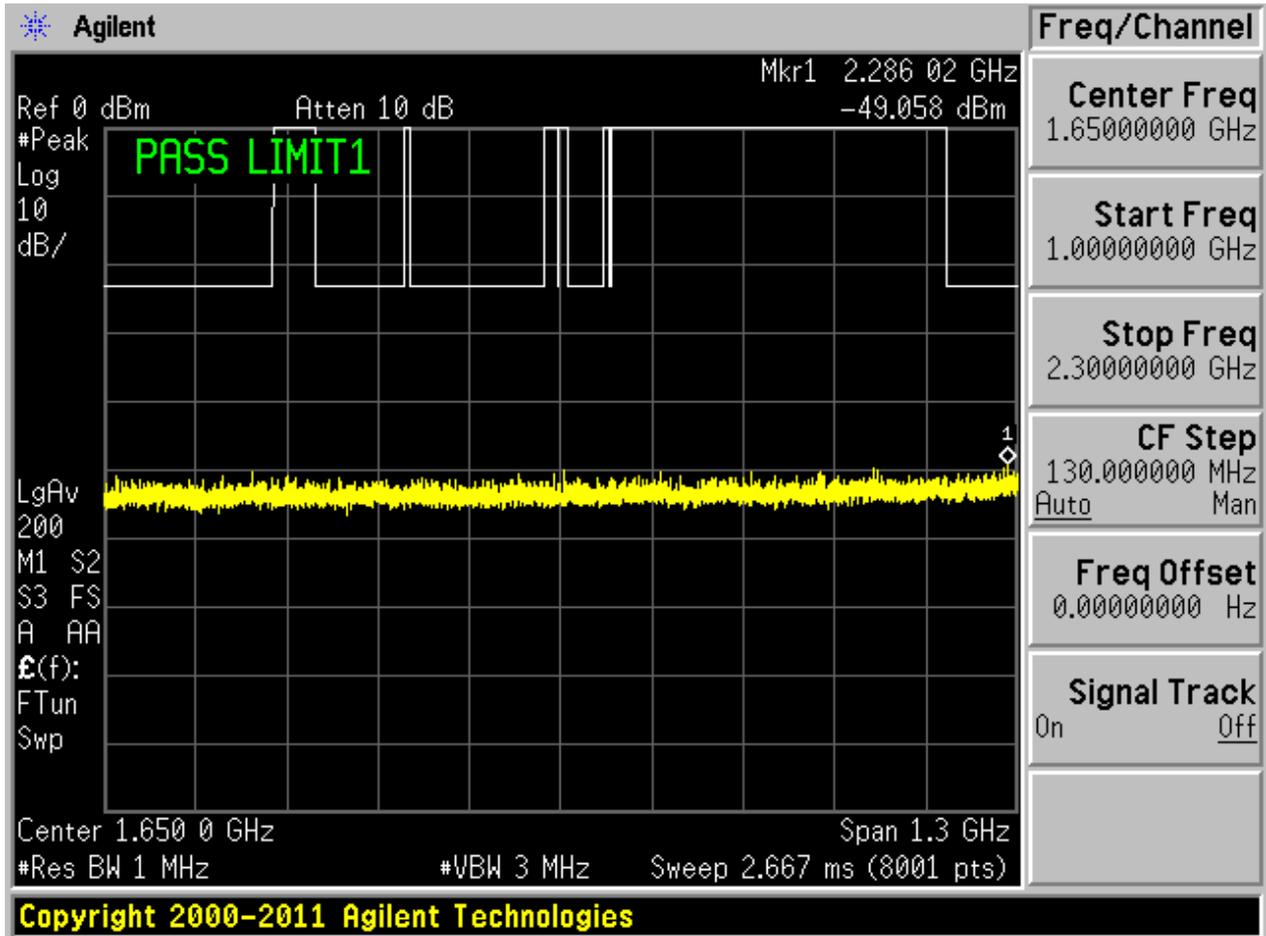


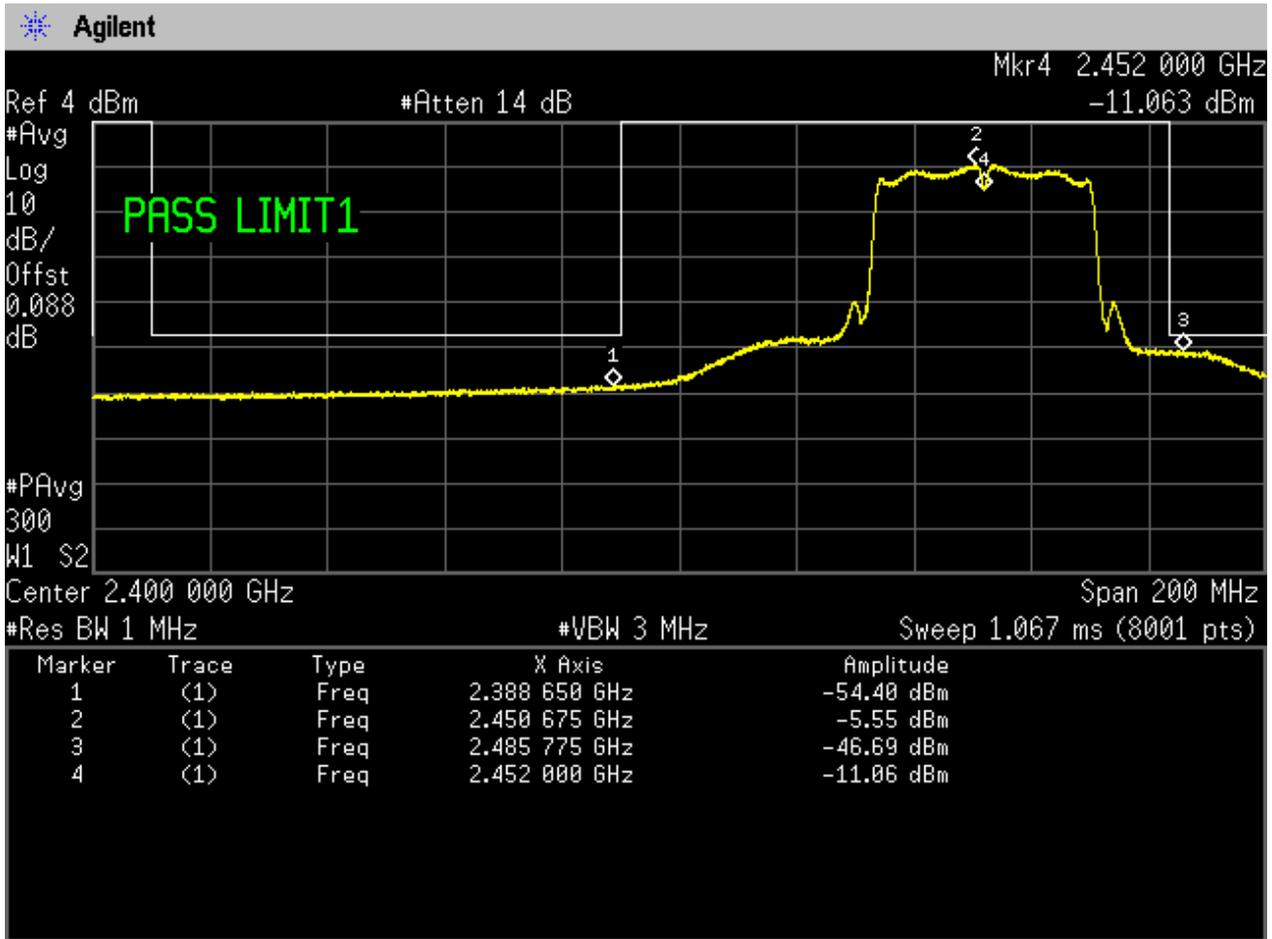
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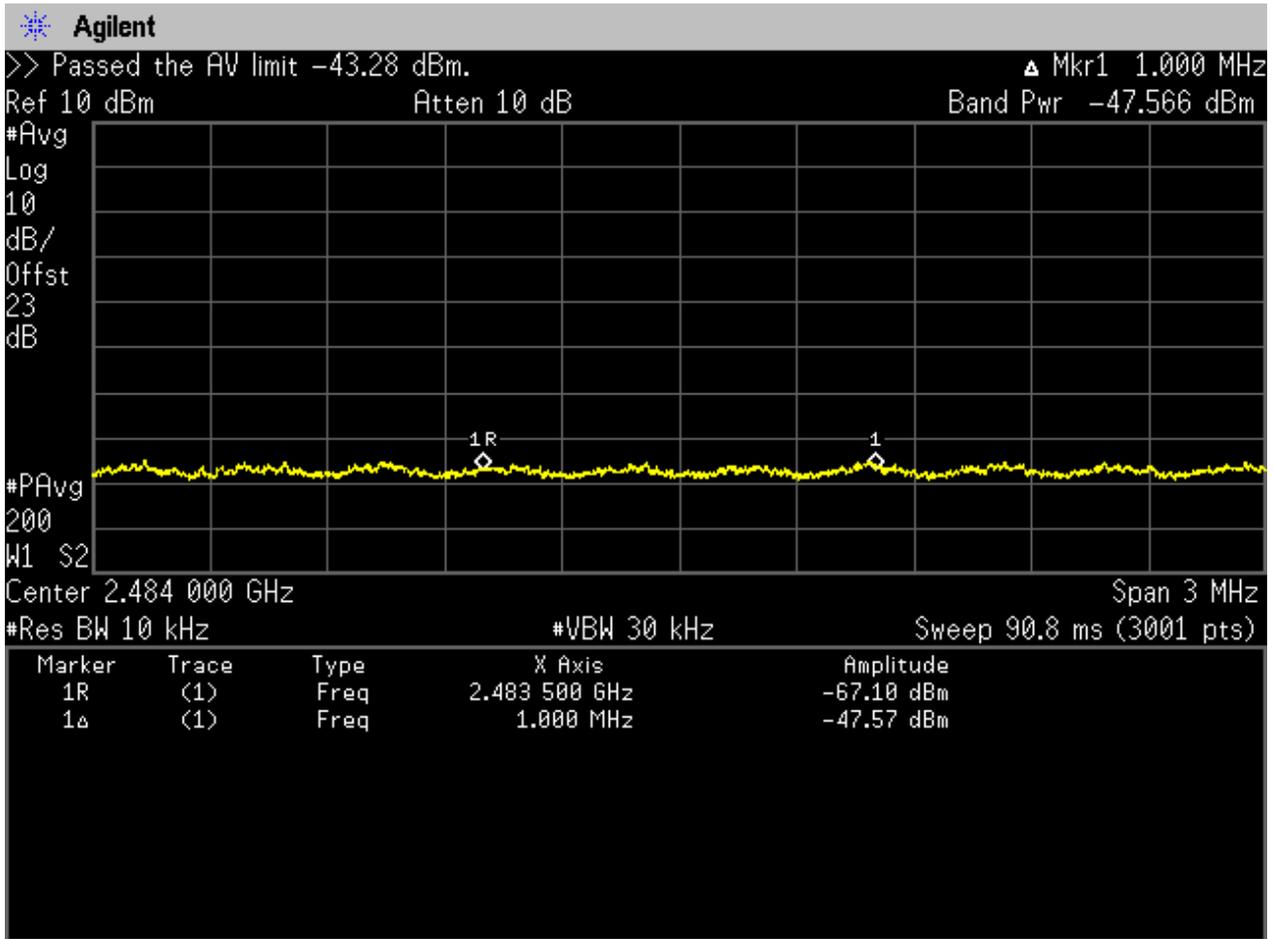


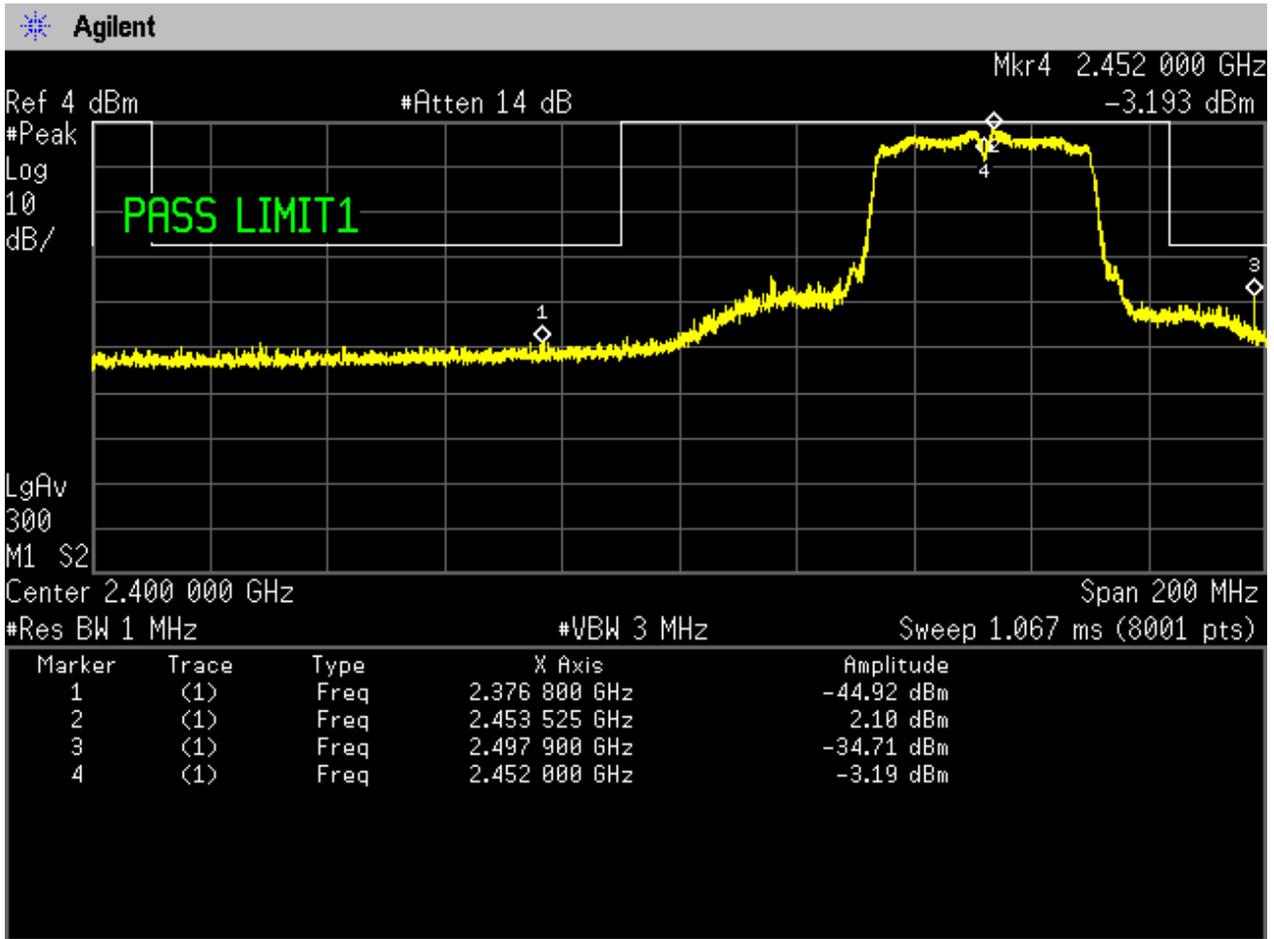


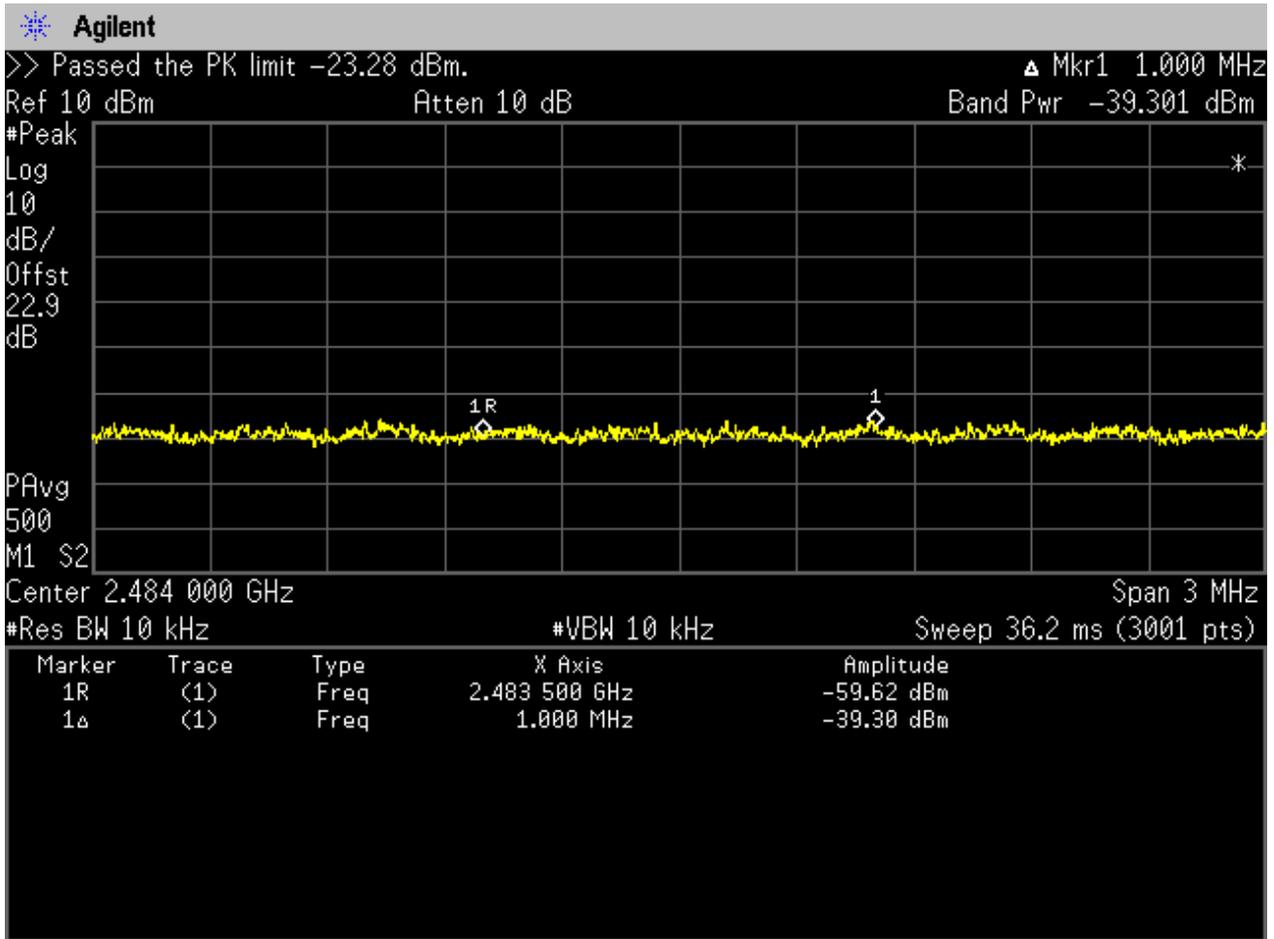
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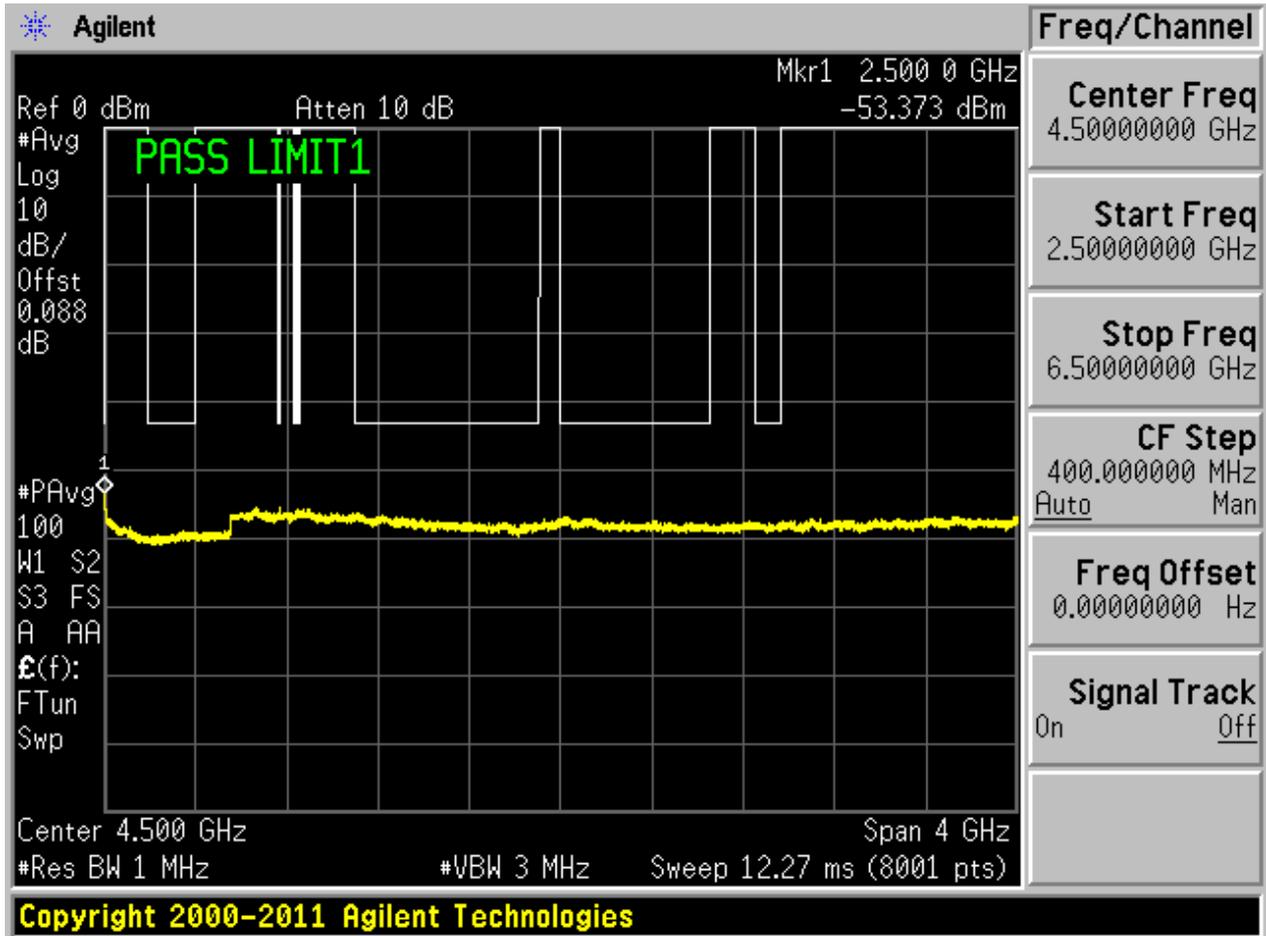


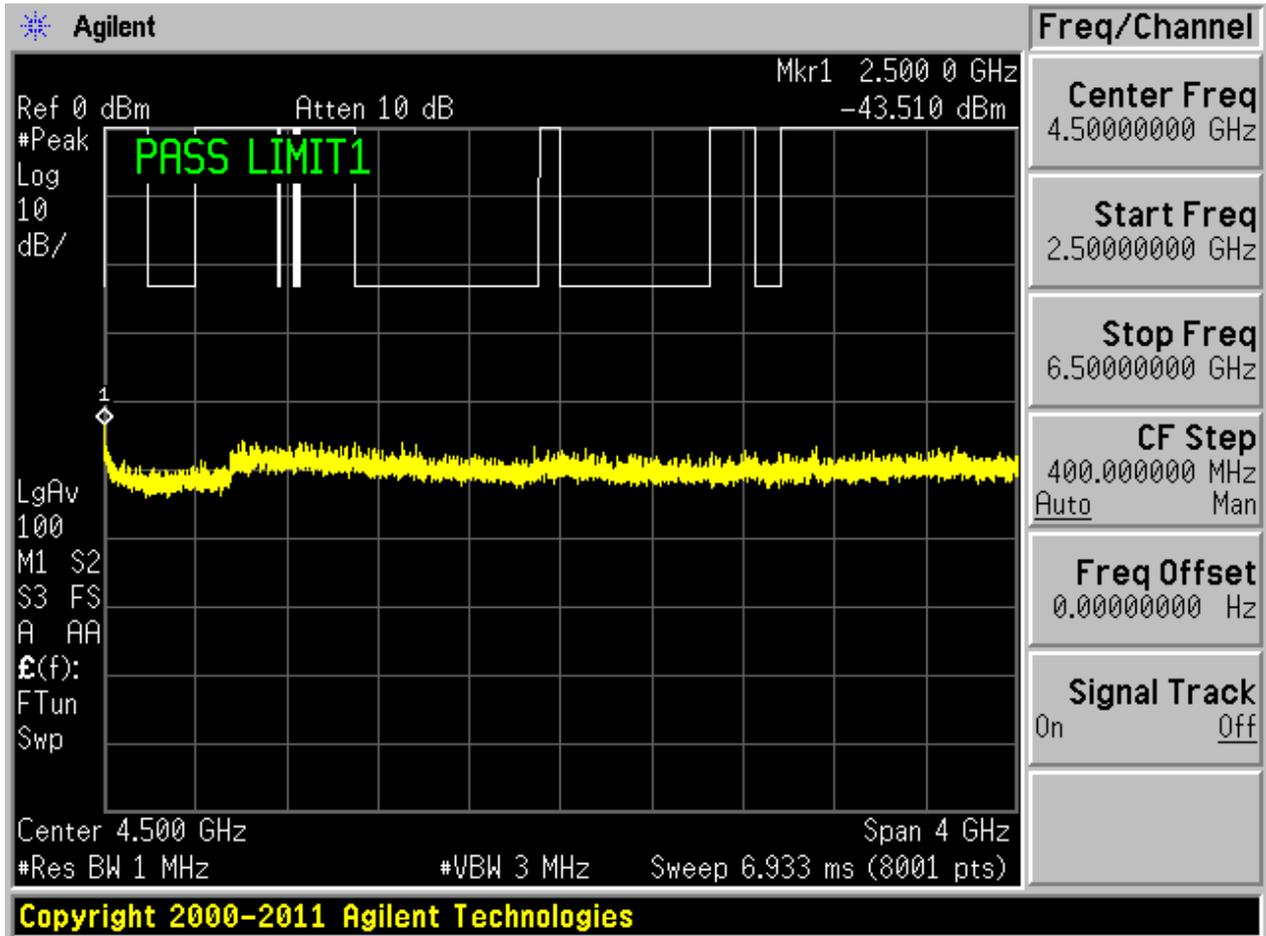


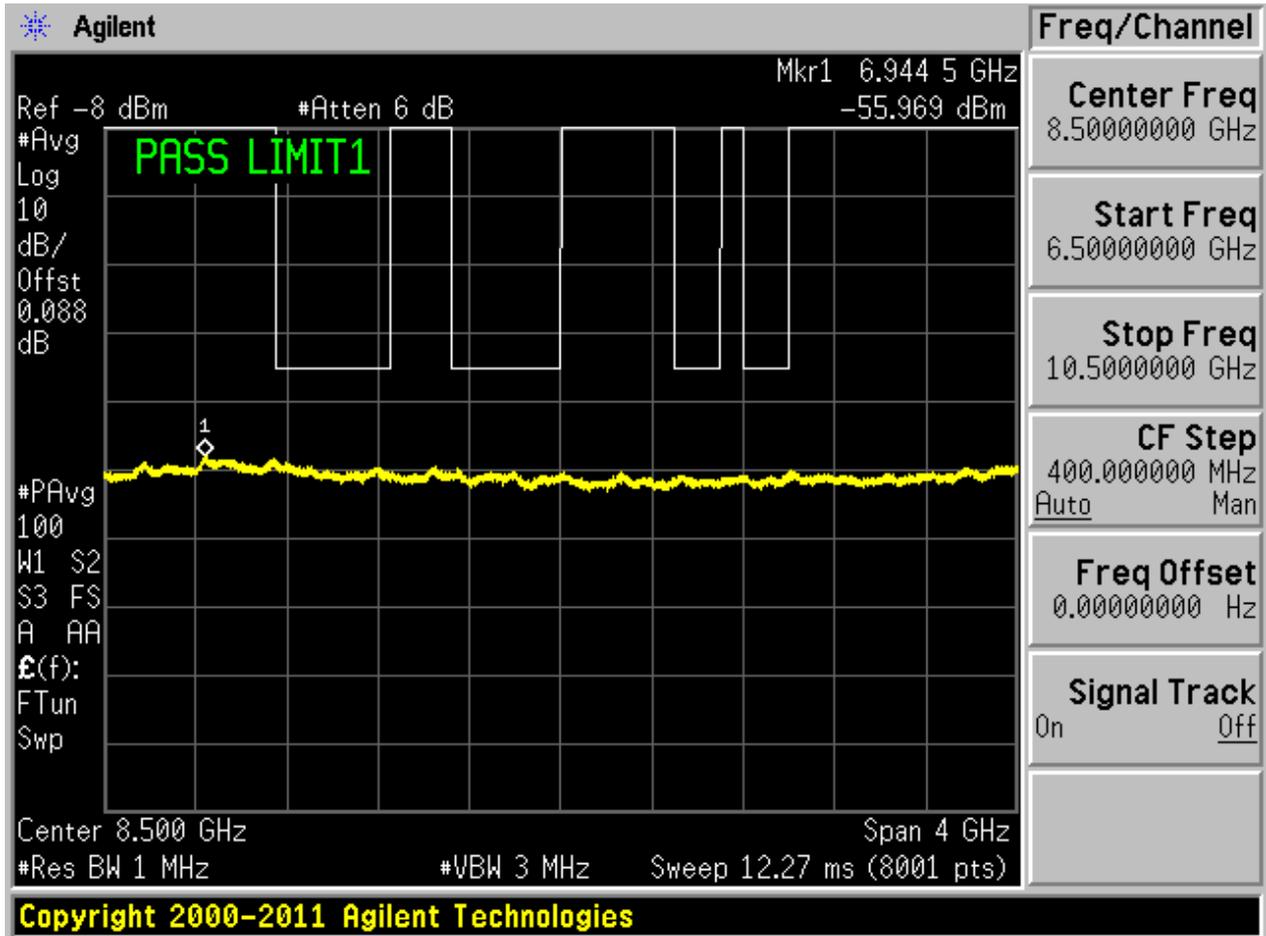


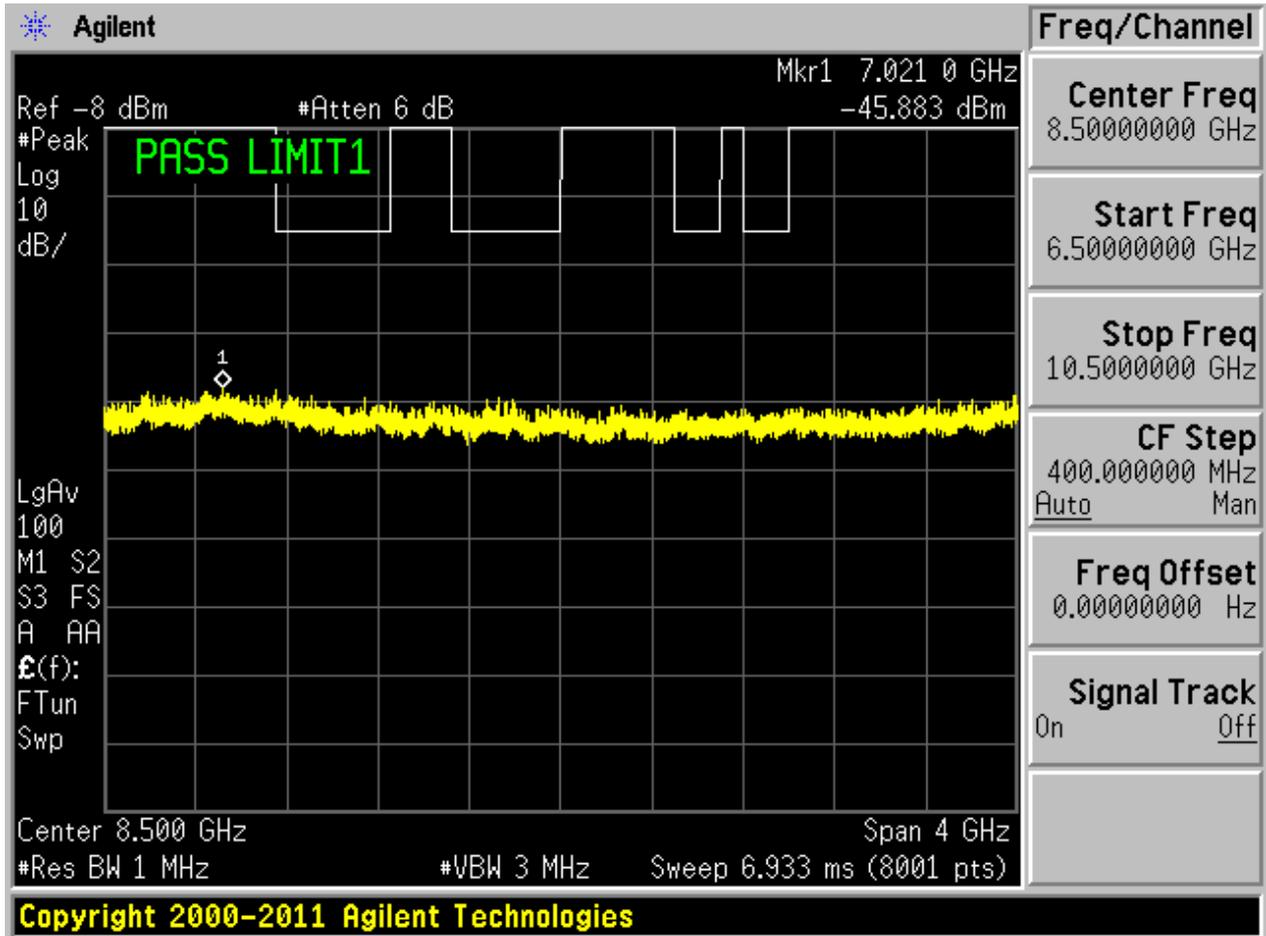


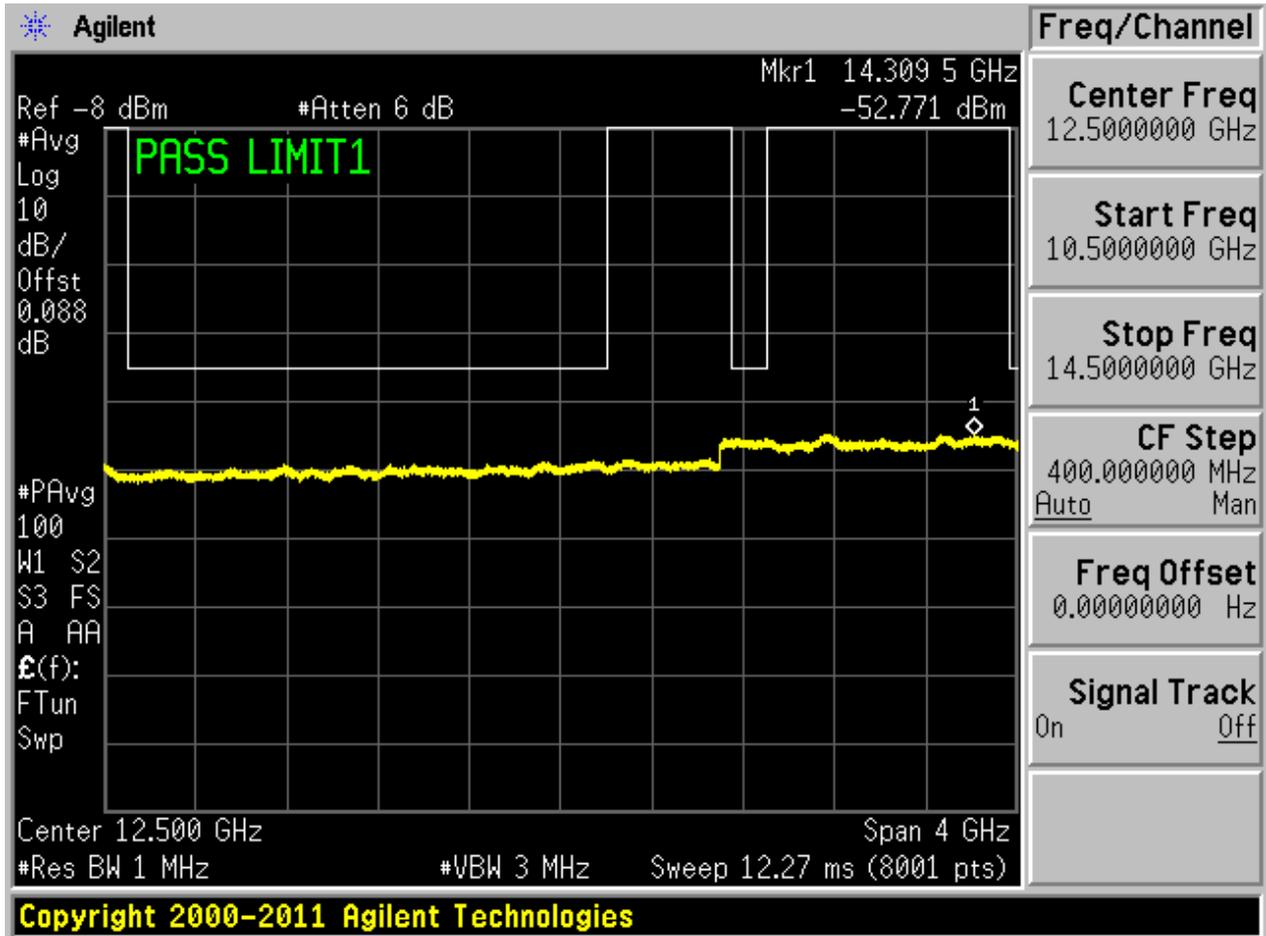


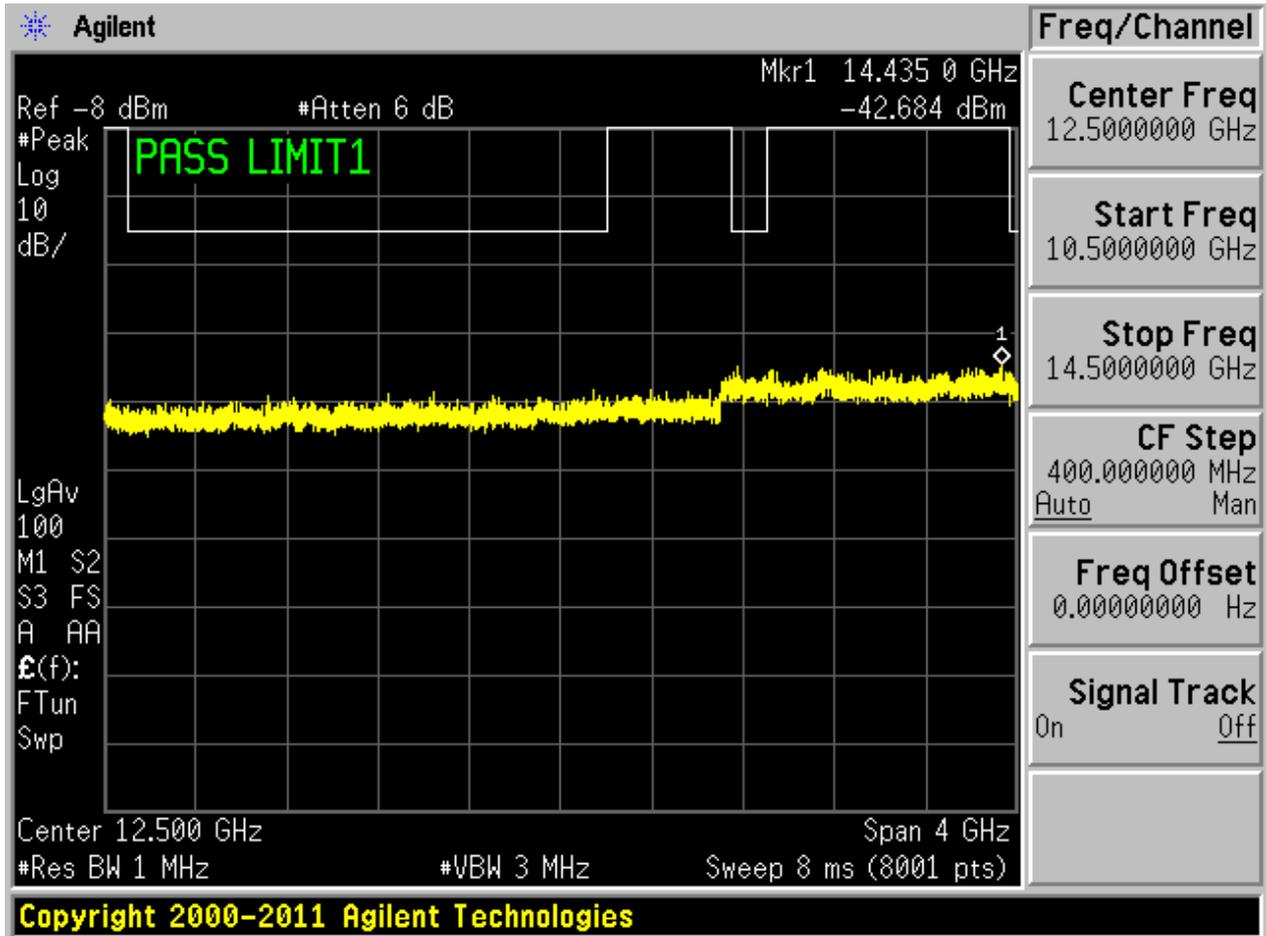


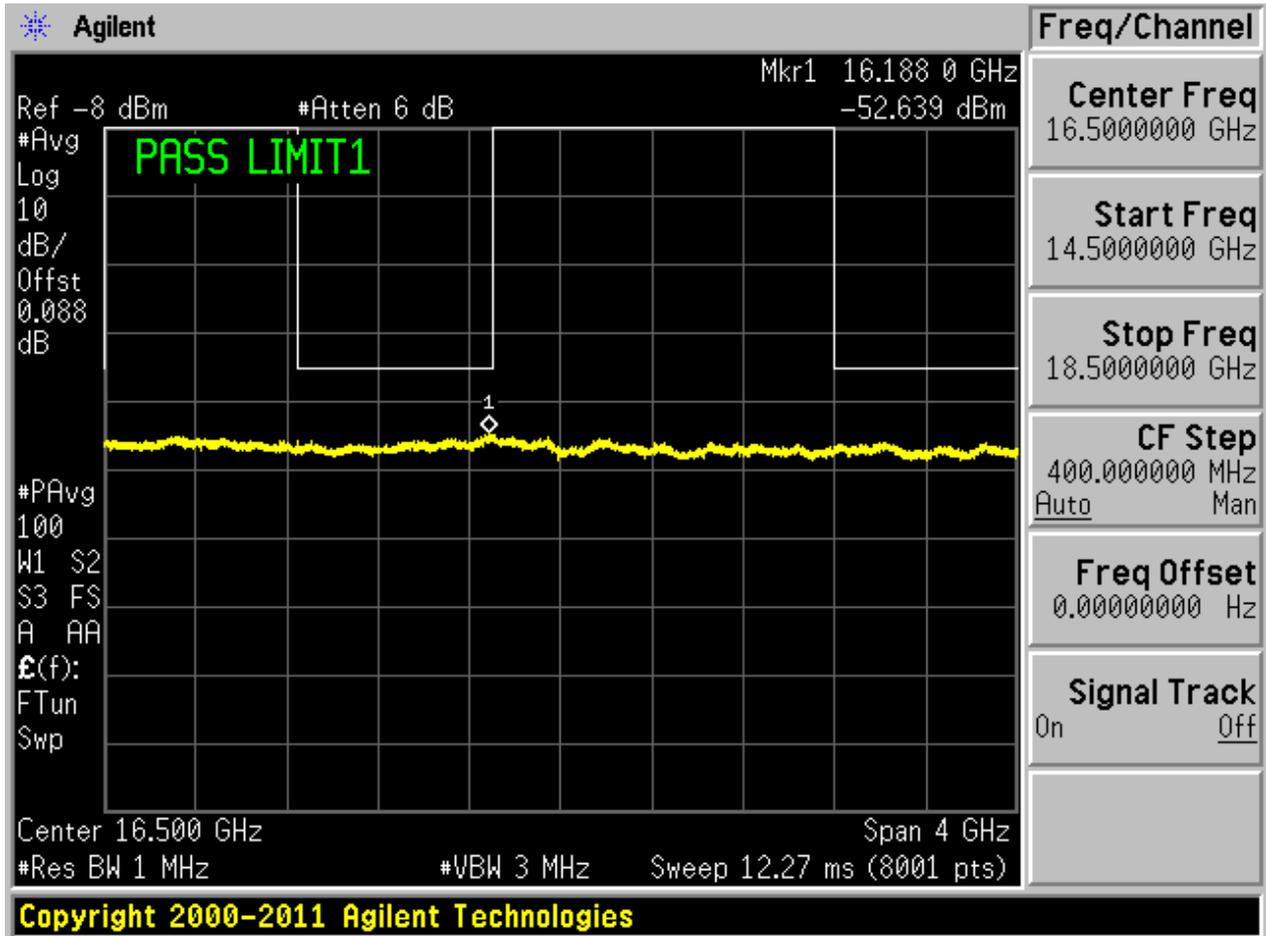


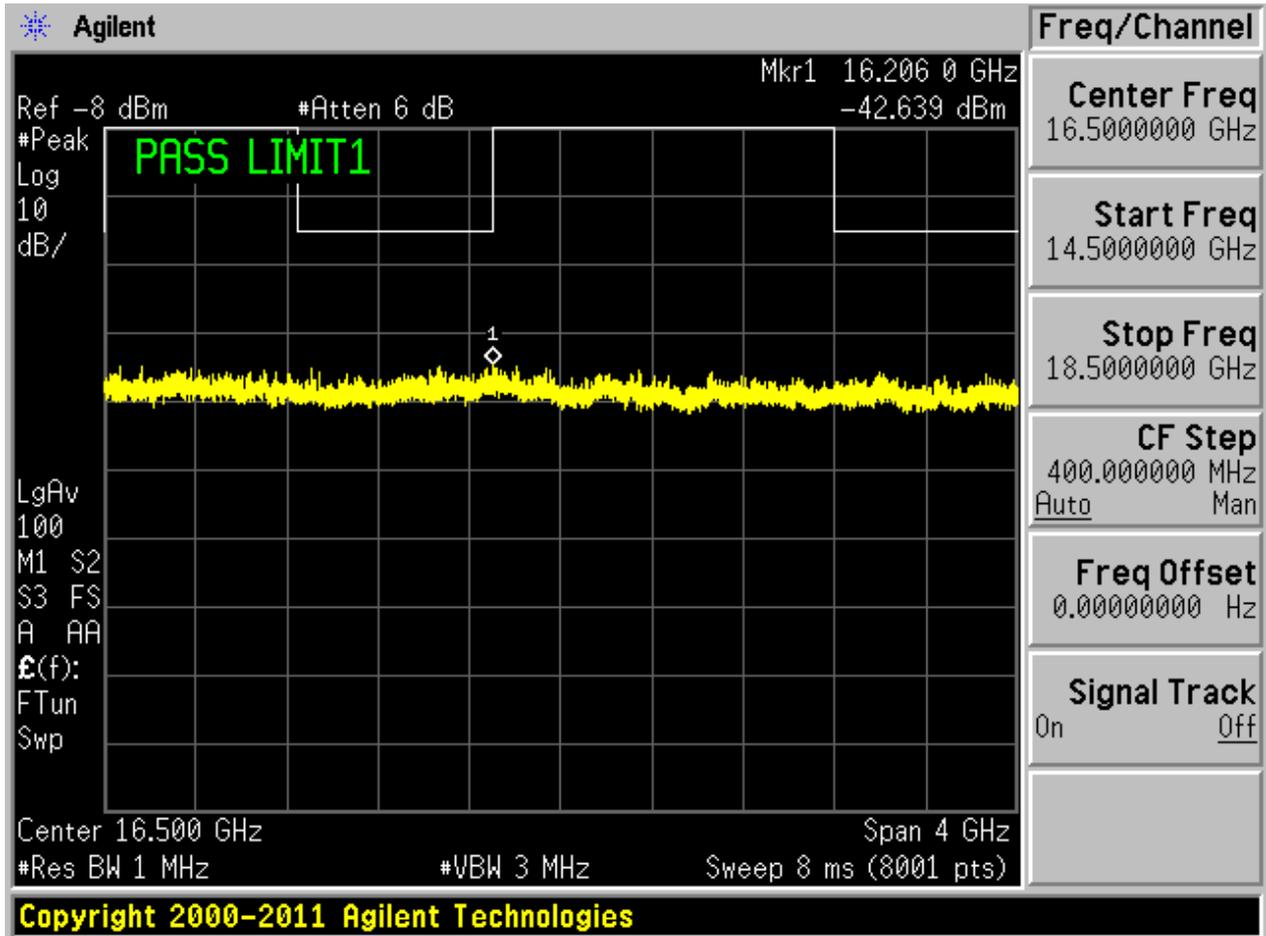


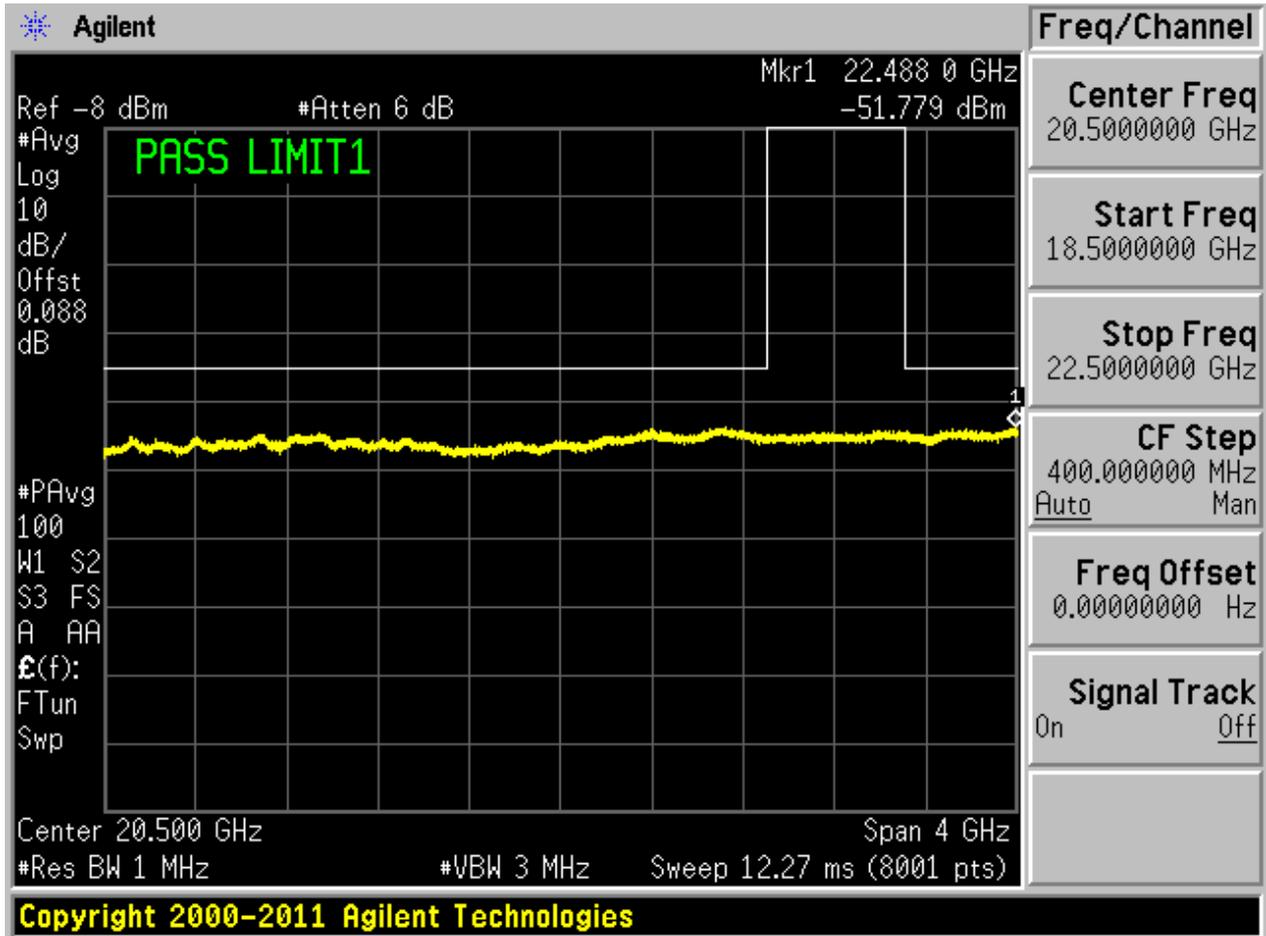


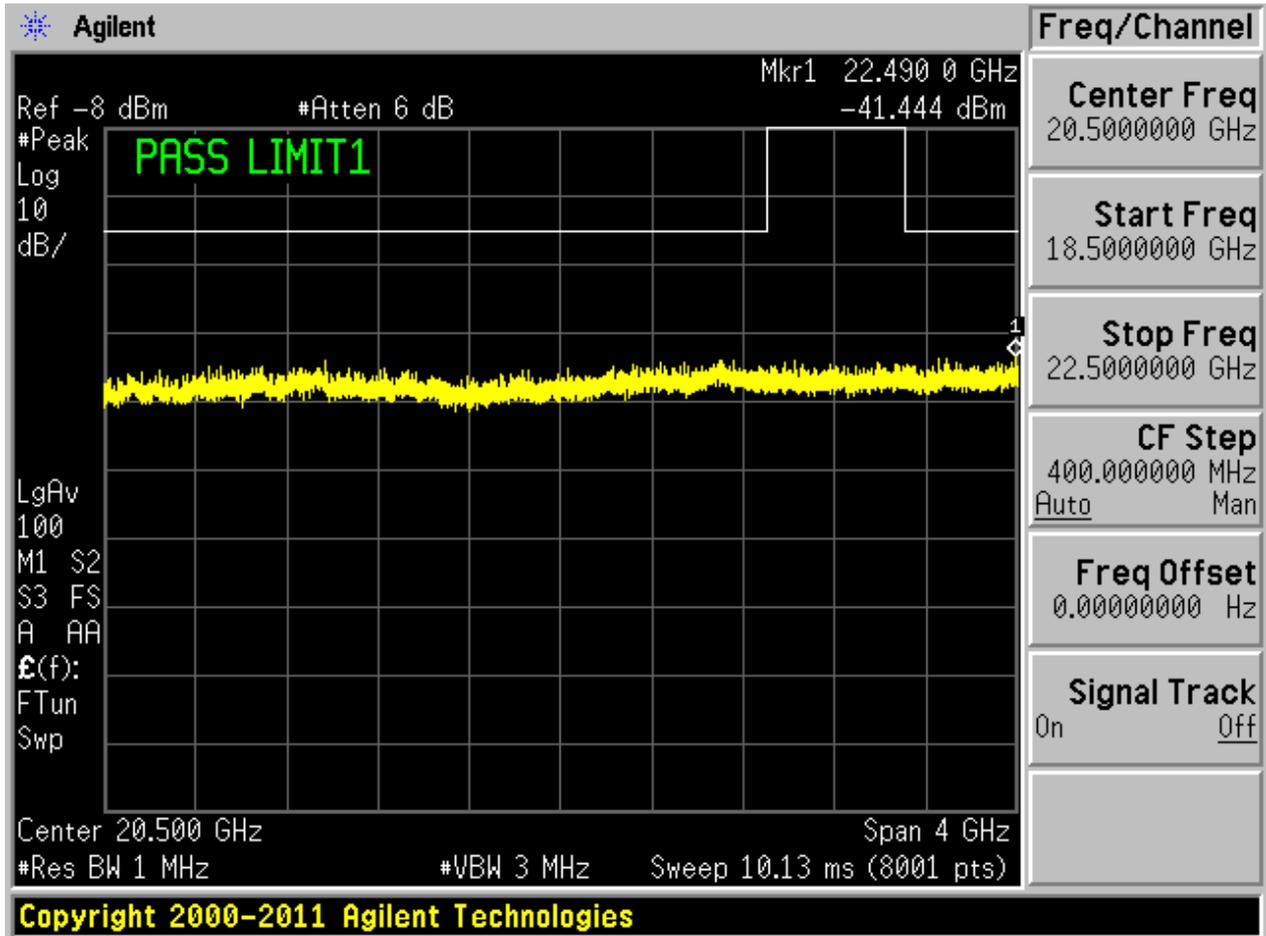


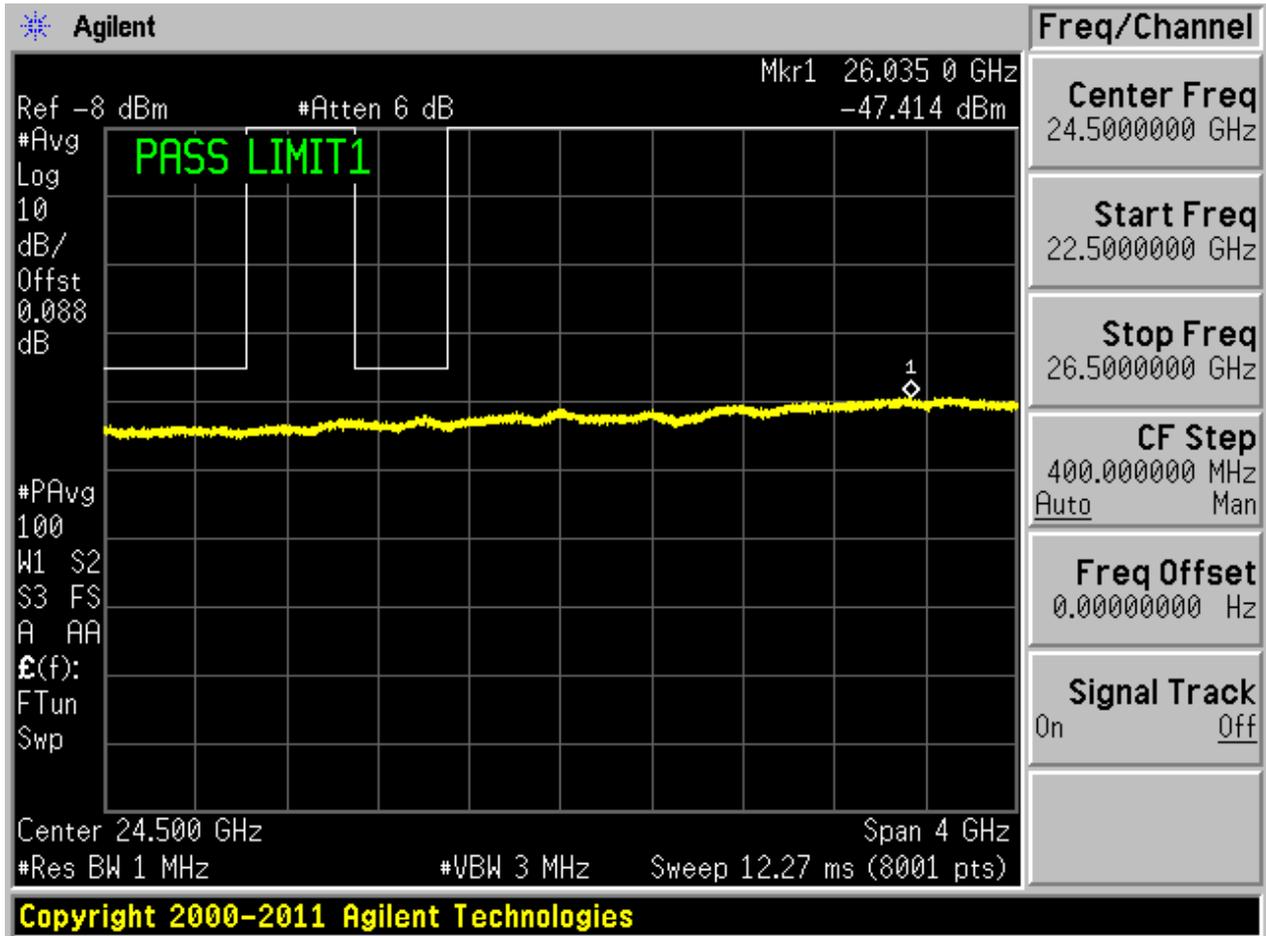


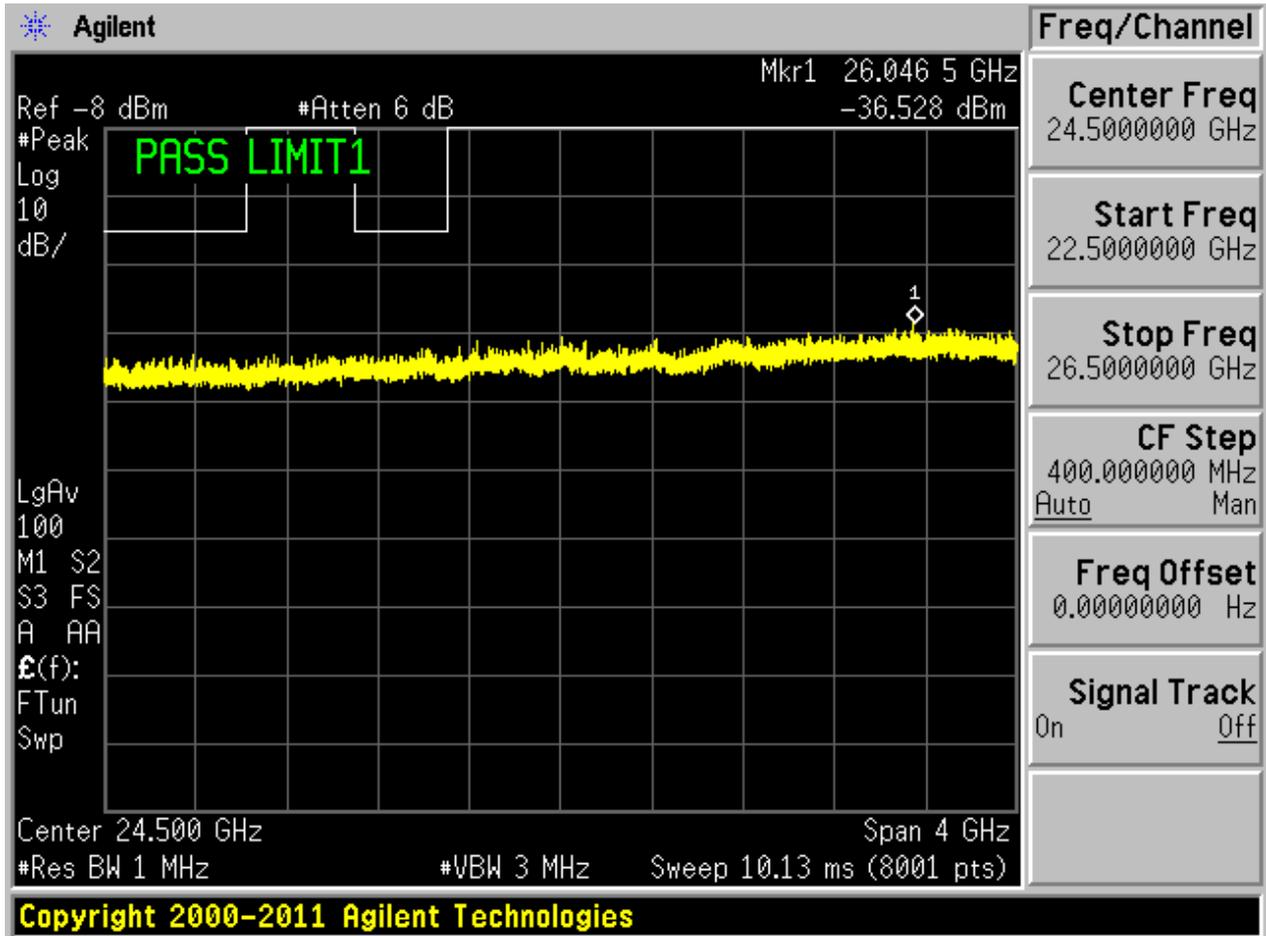






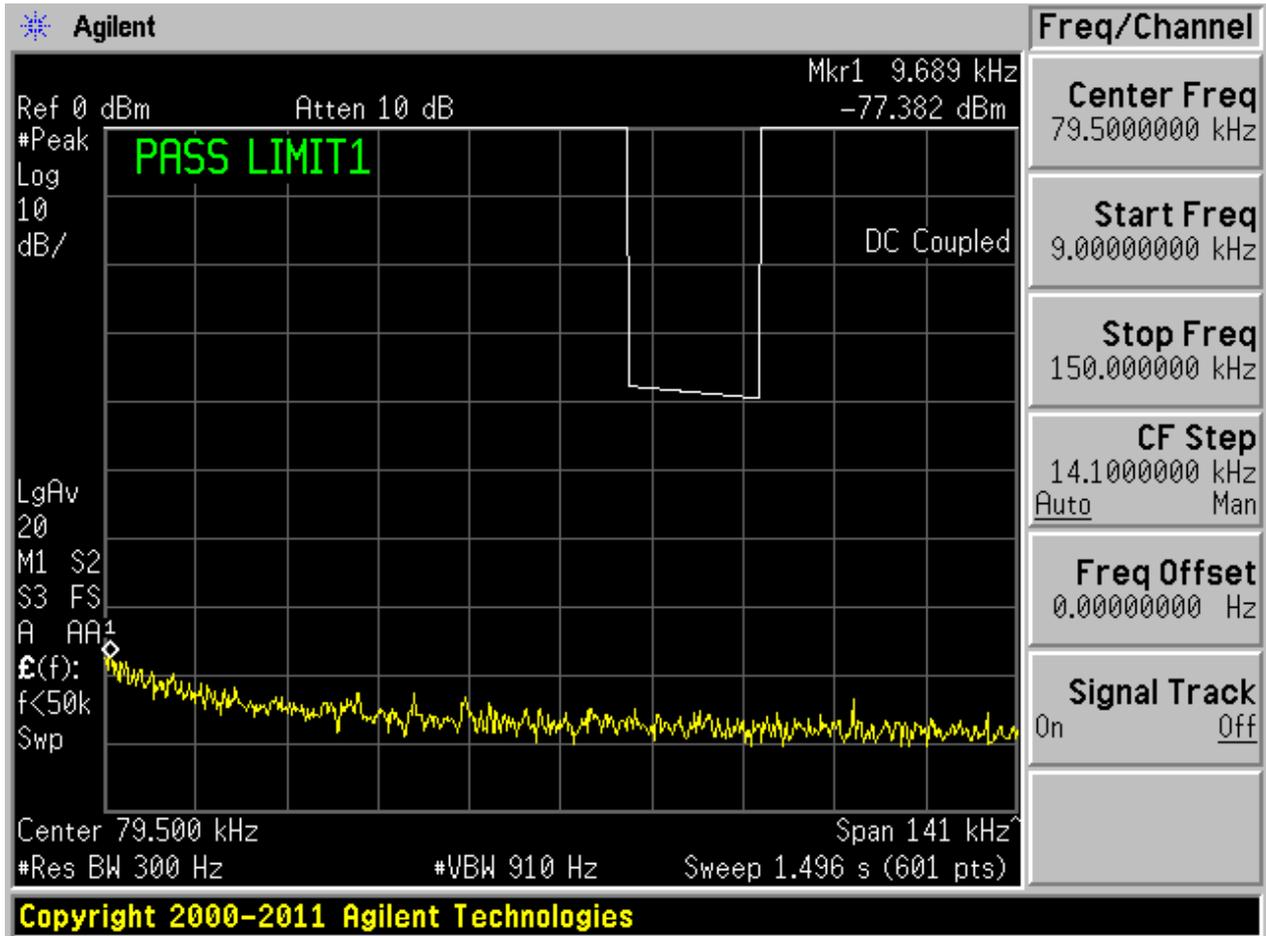


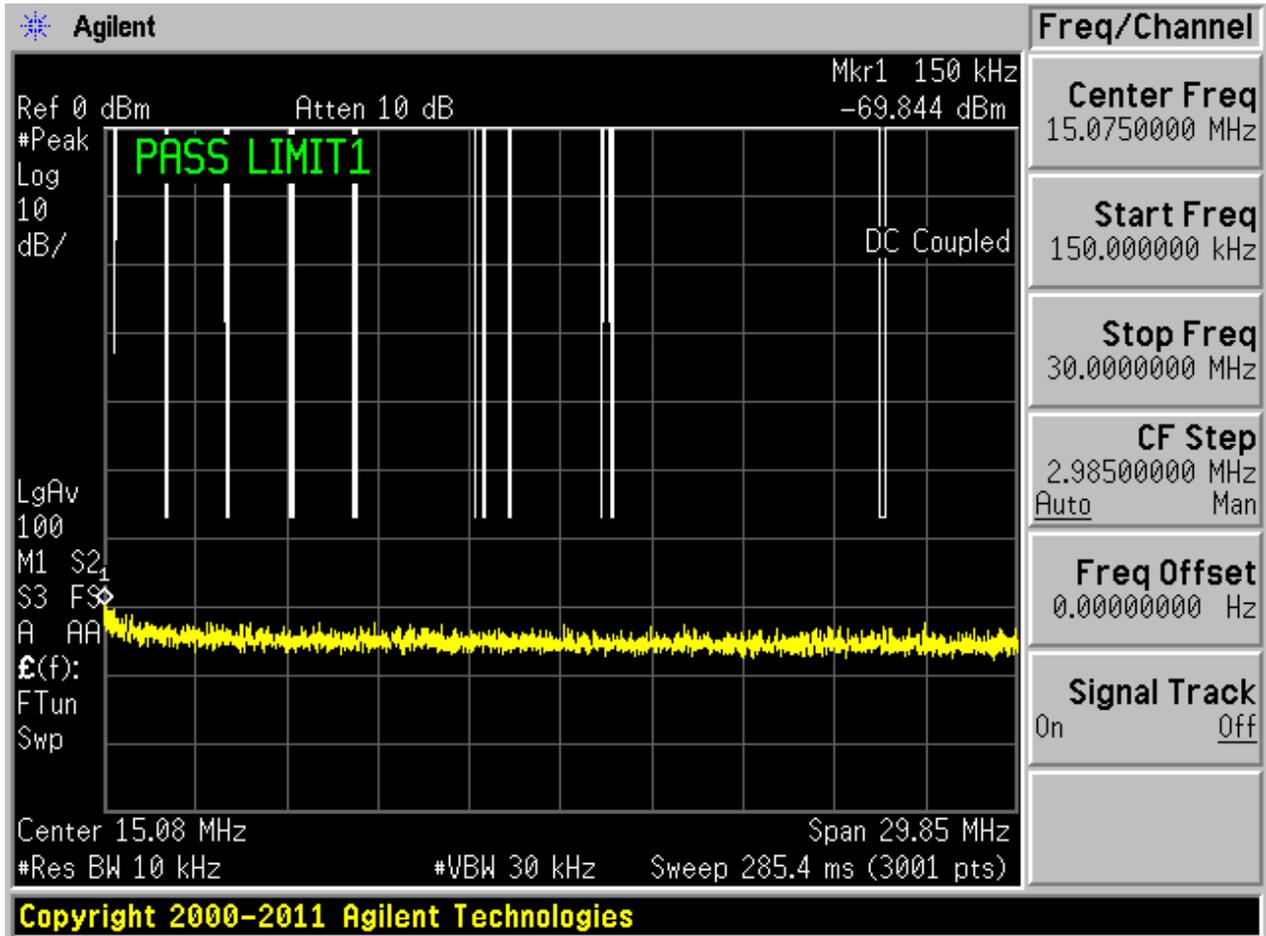


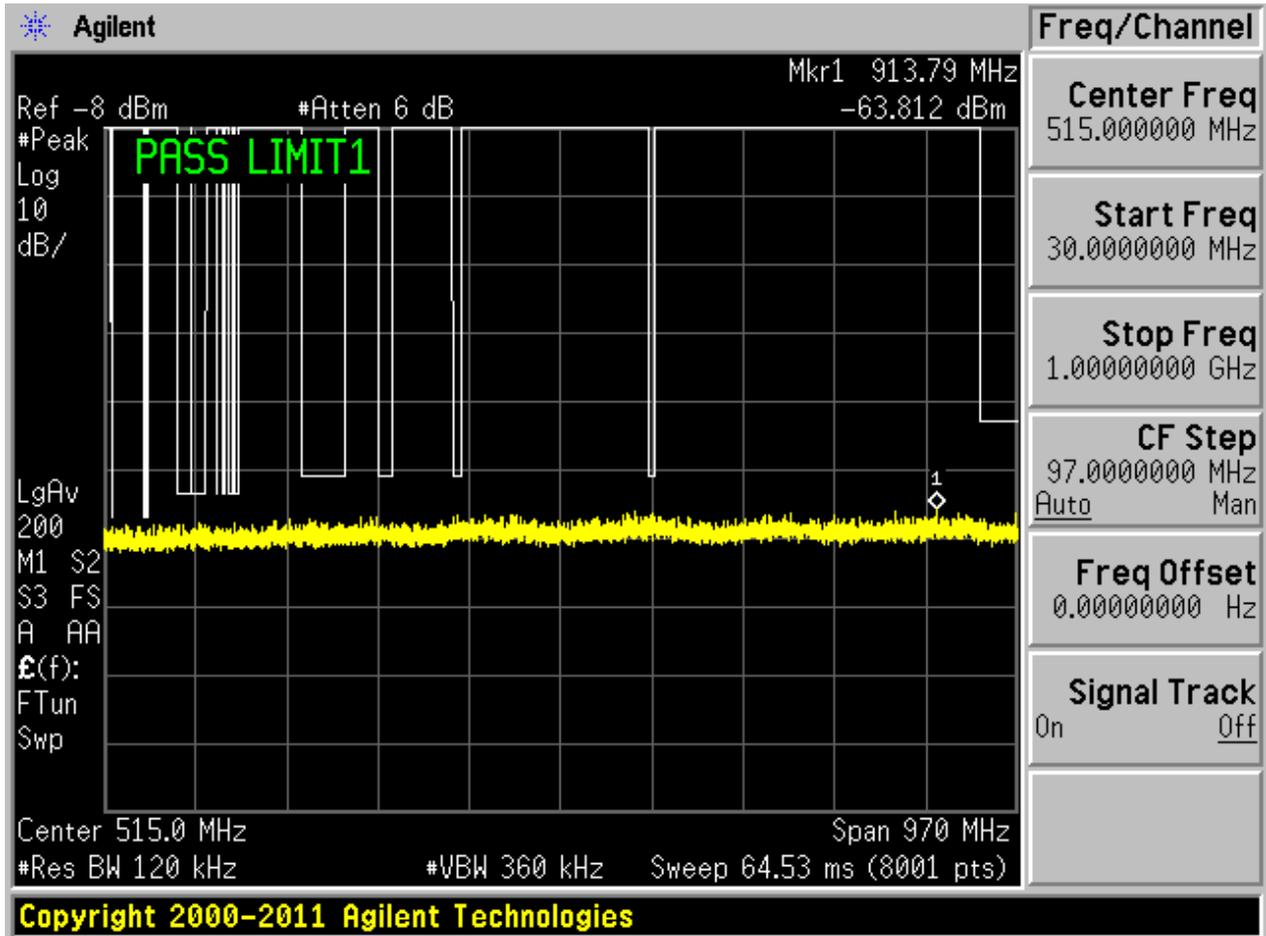


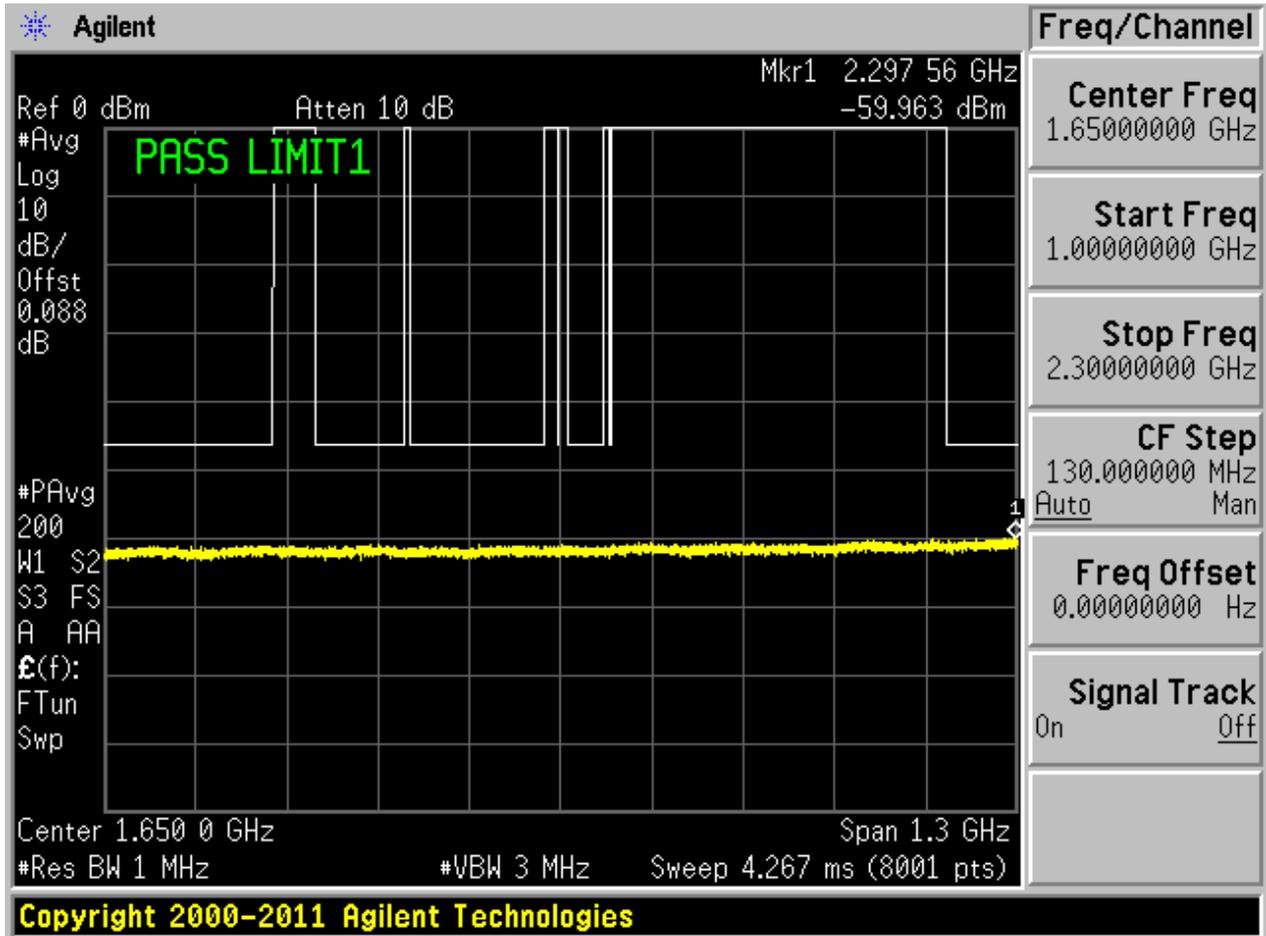
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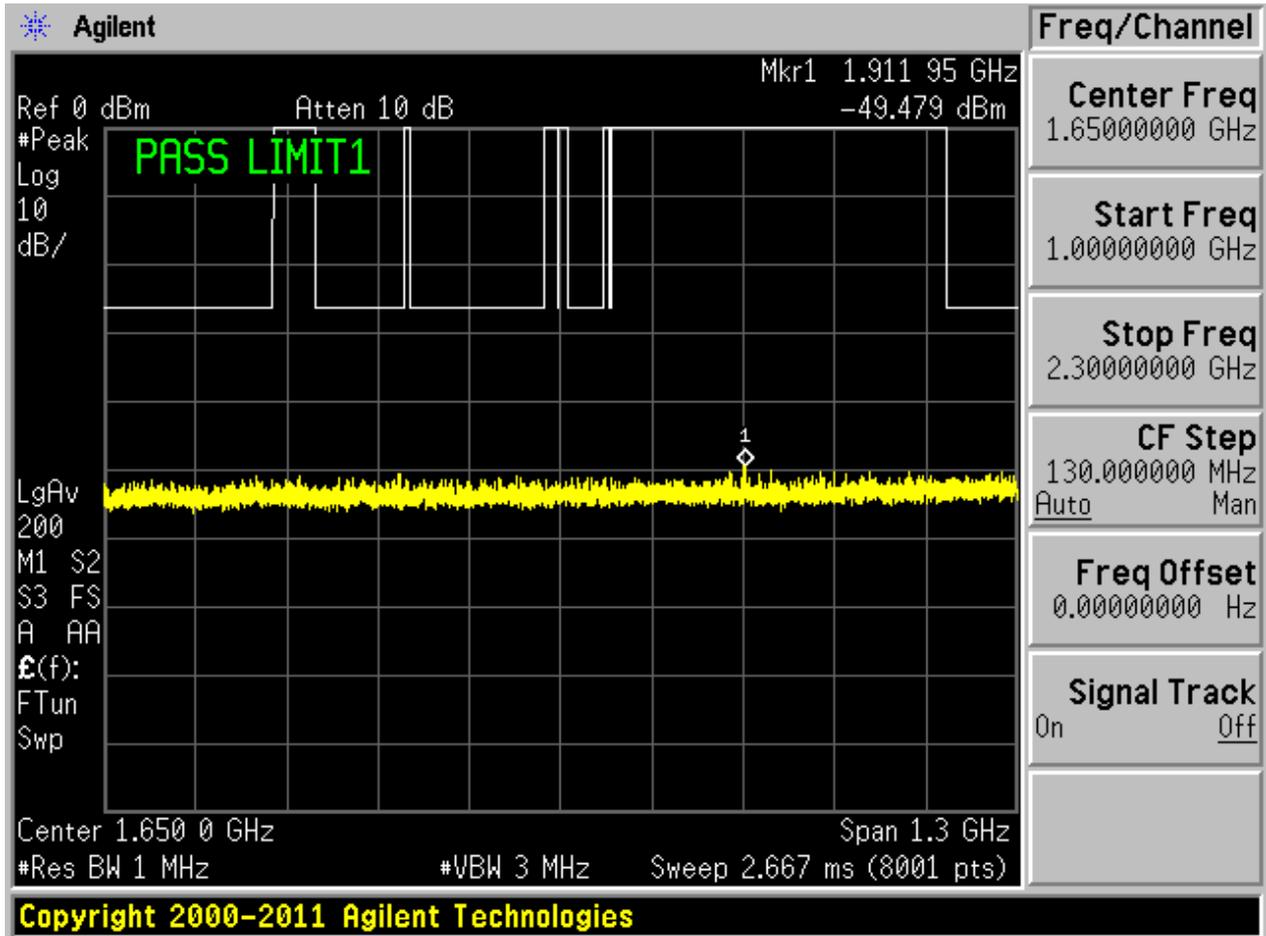
2.28.1 Ant 1 (Trace#1)

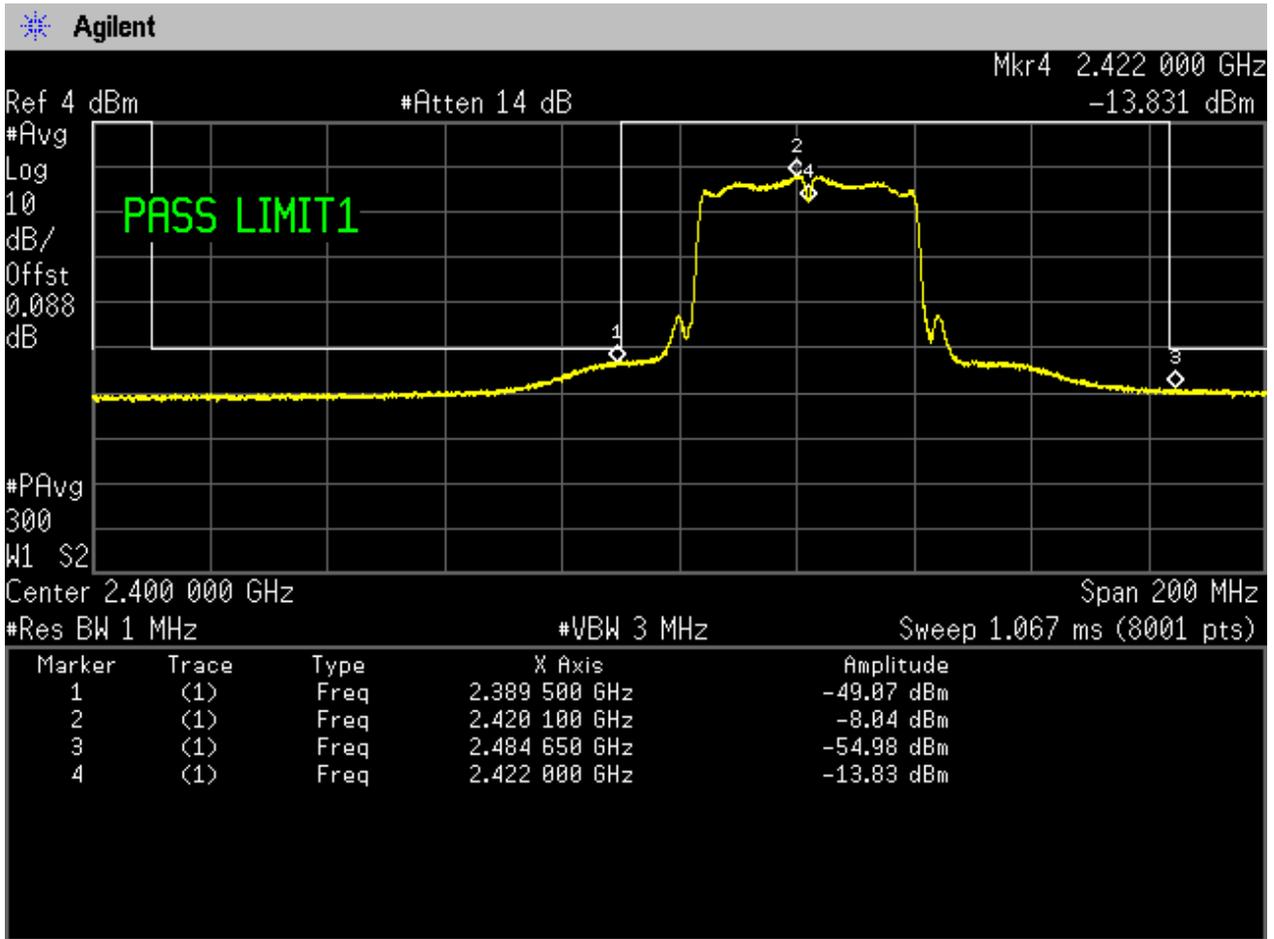


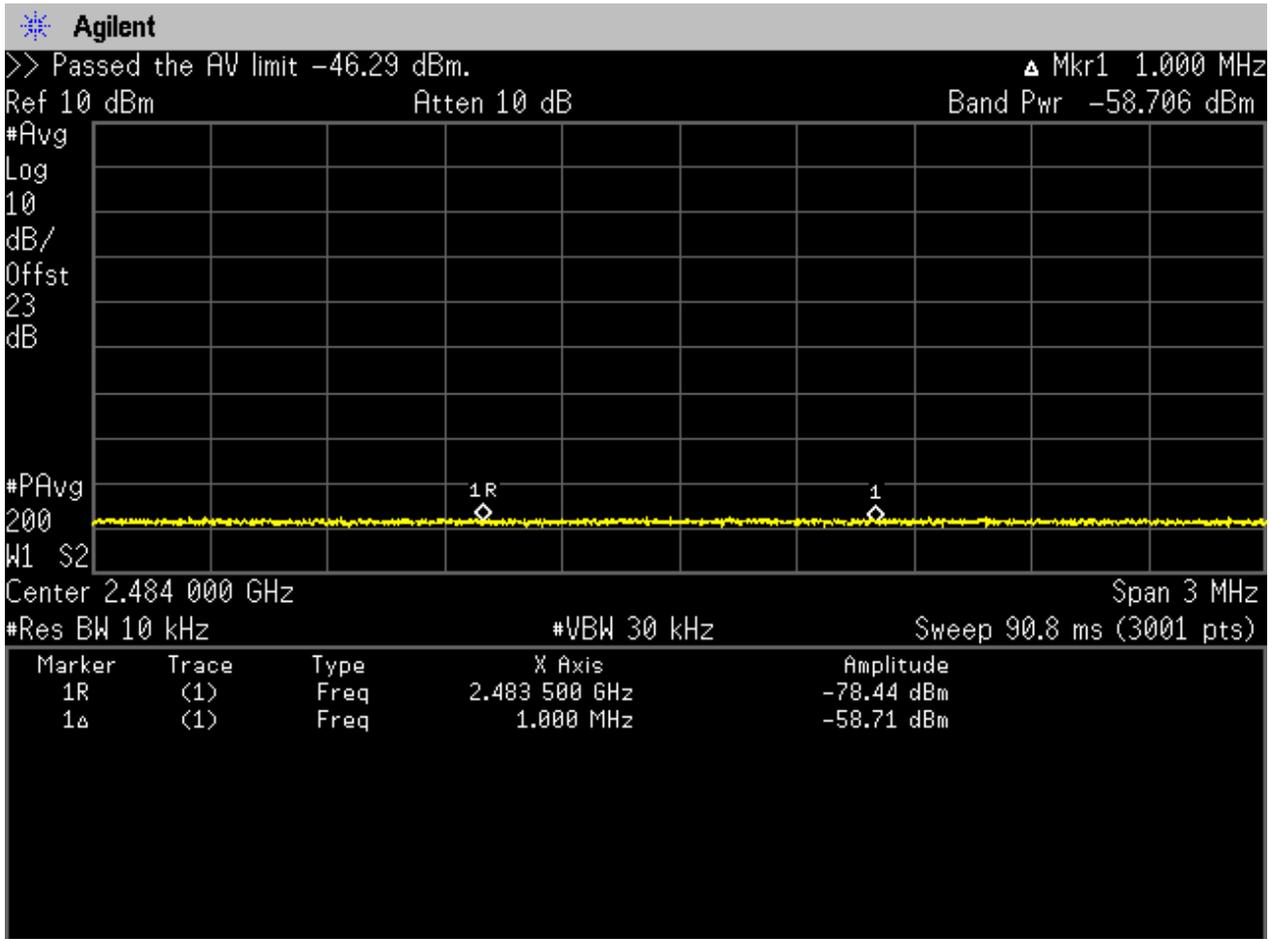


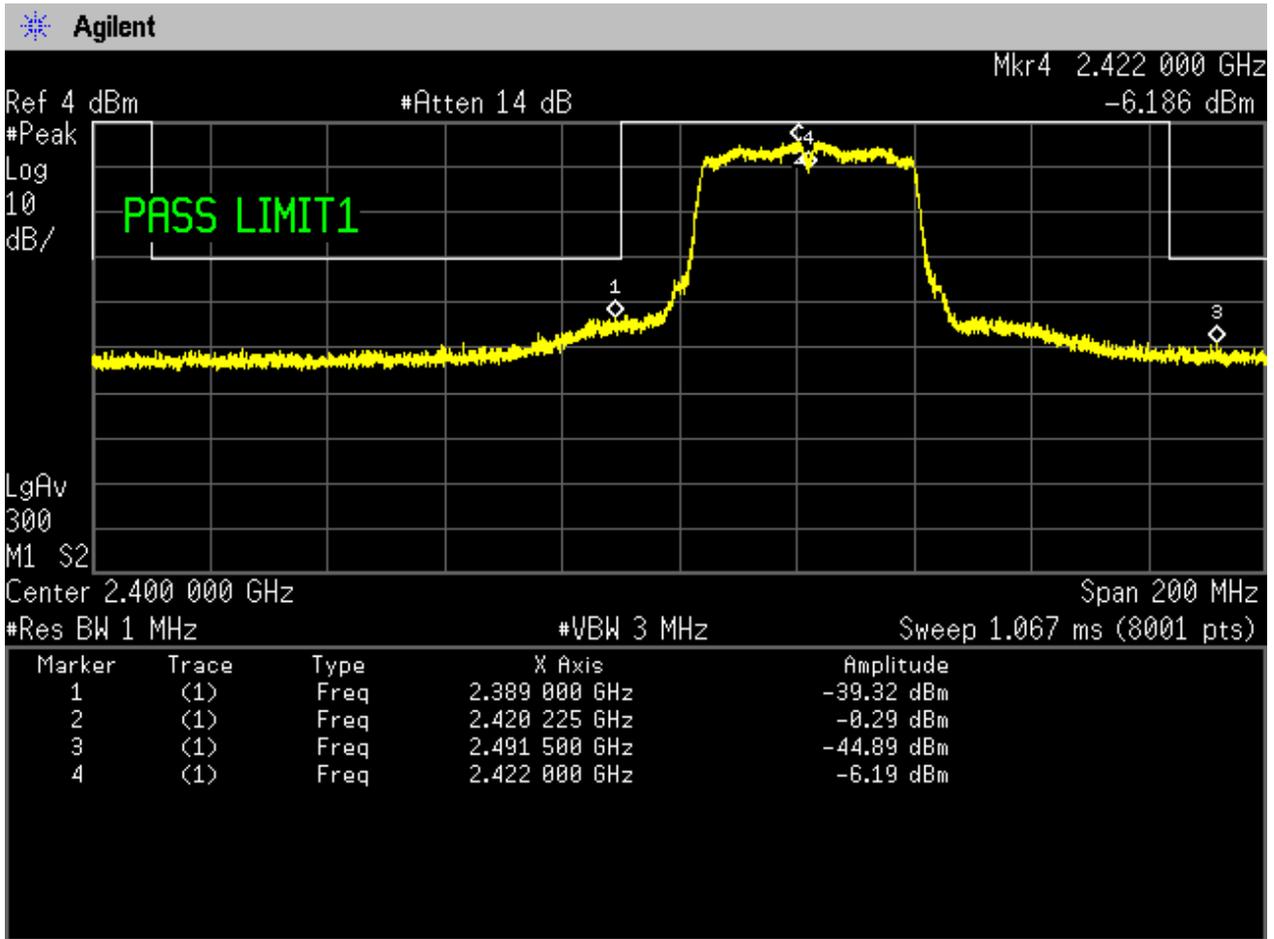


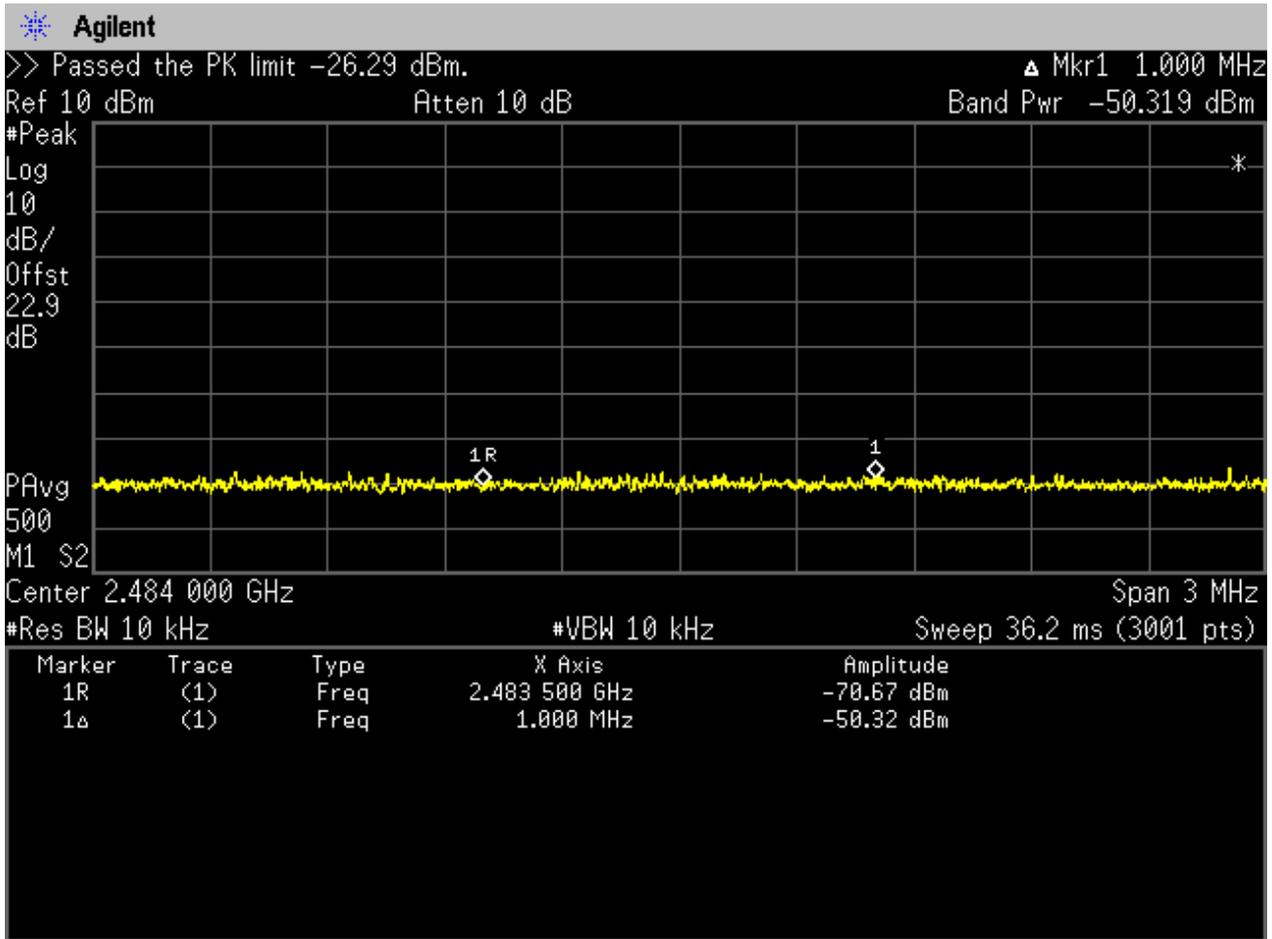


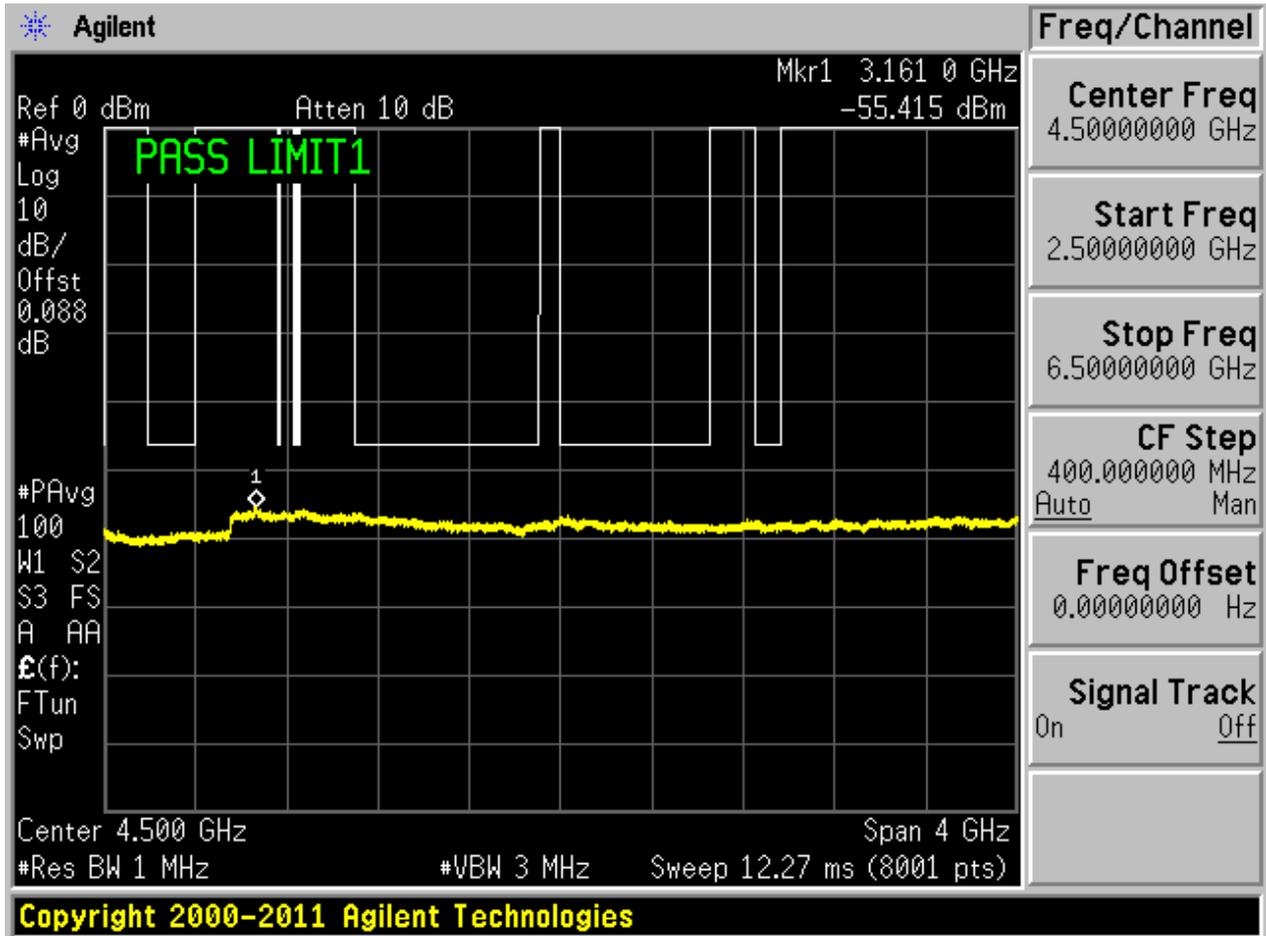


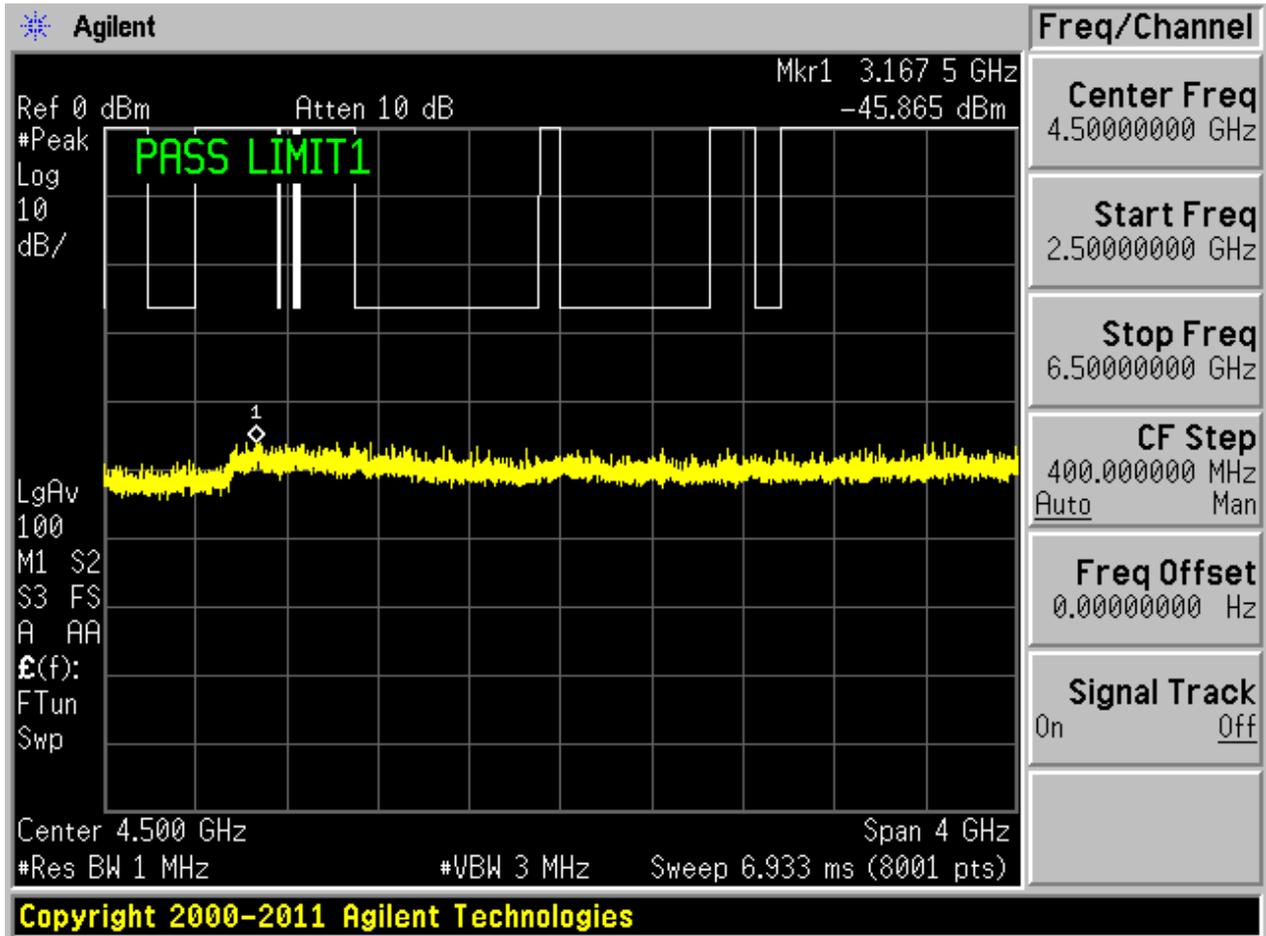


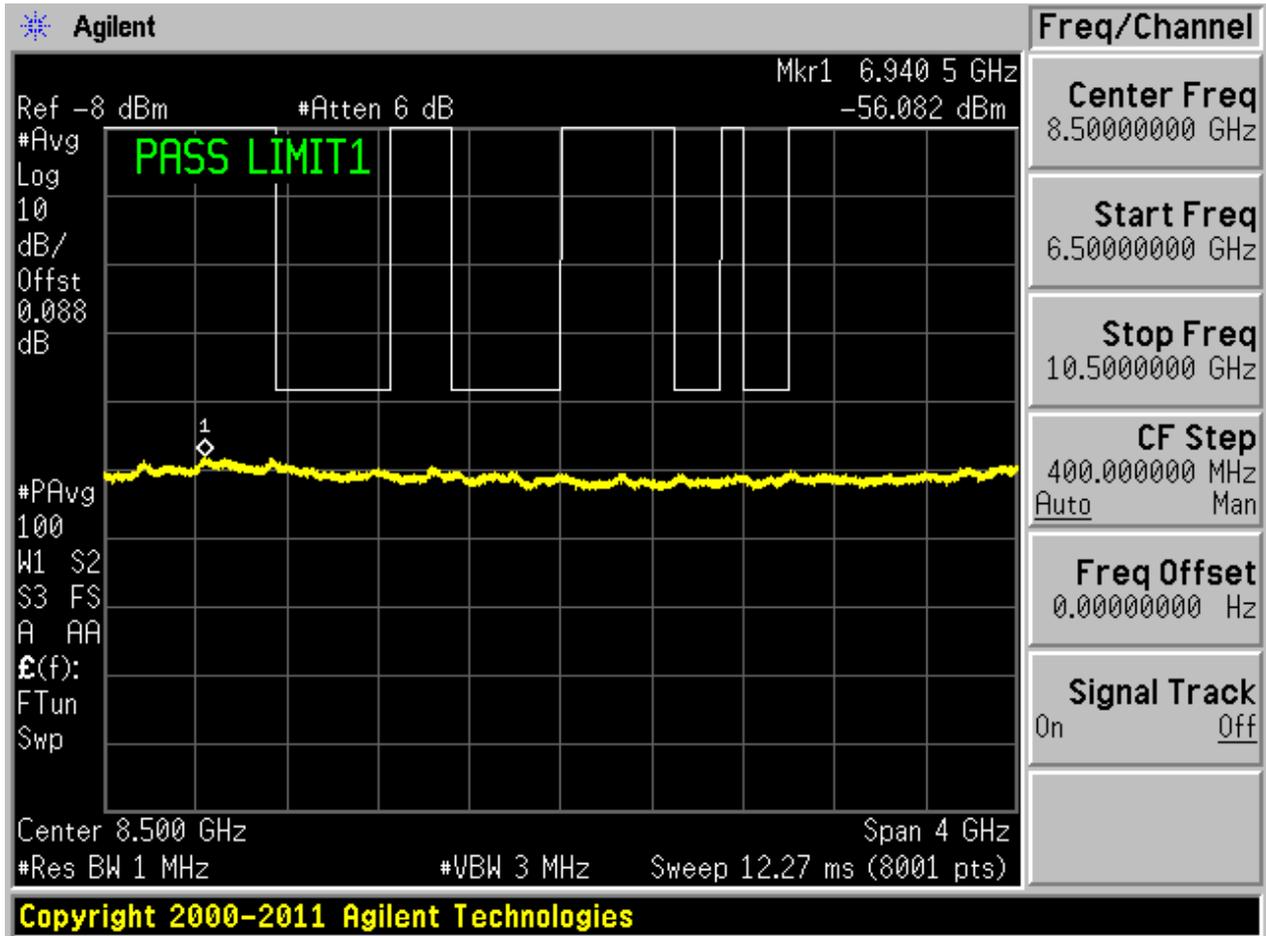


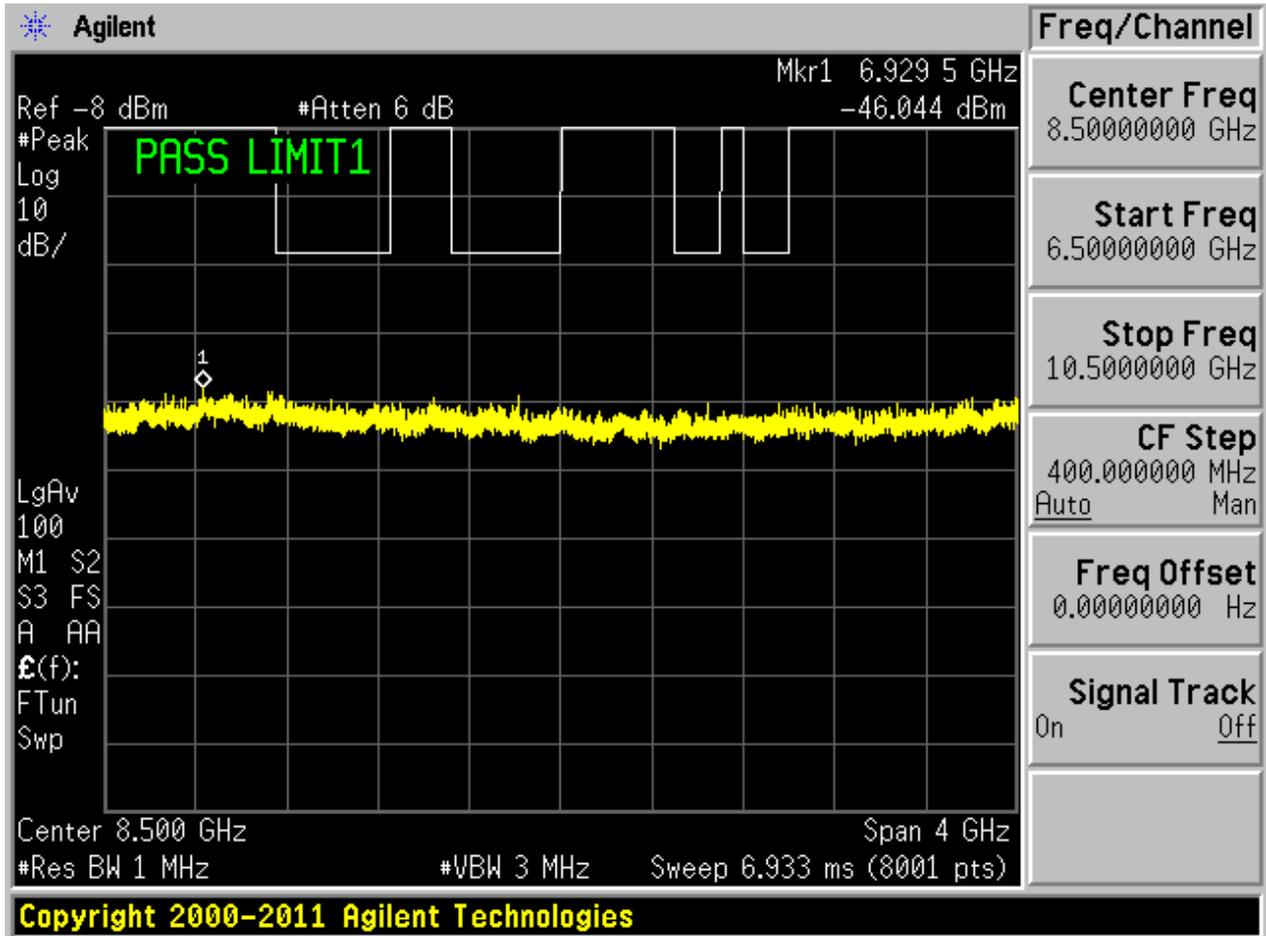


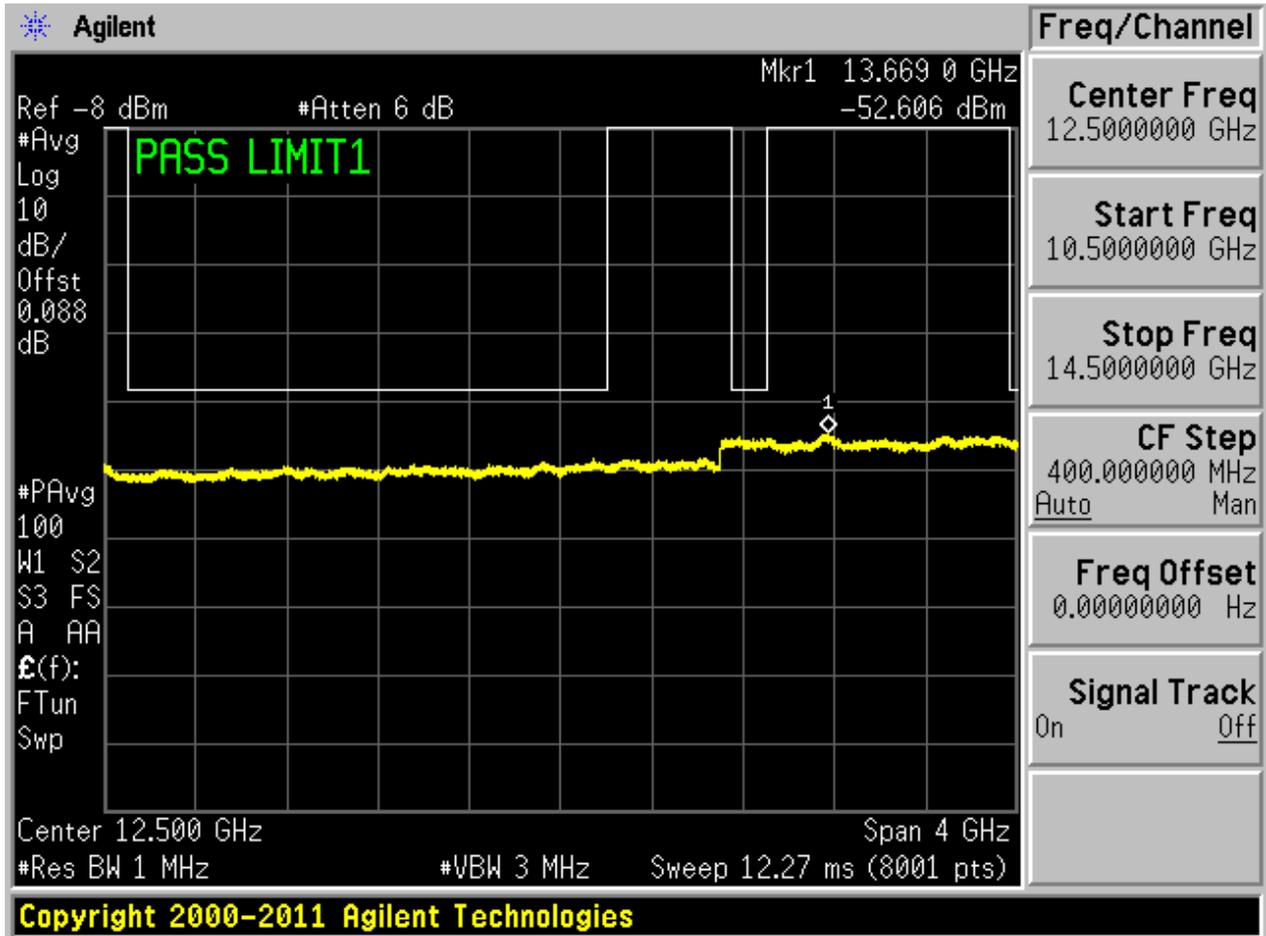


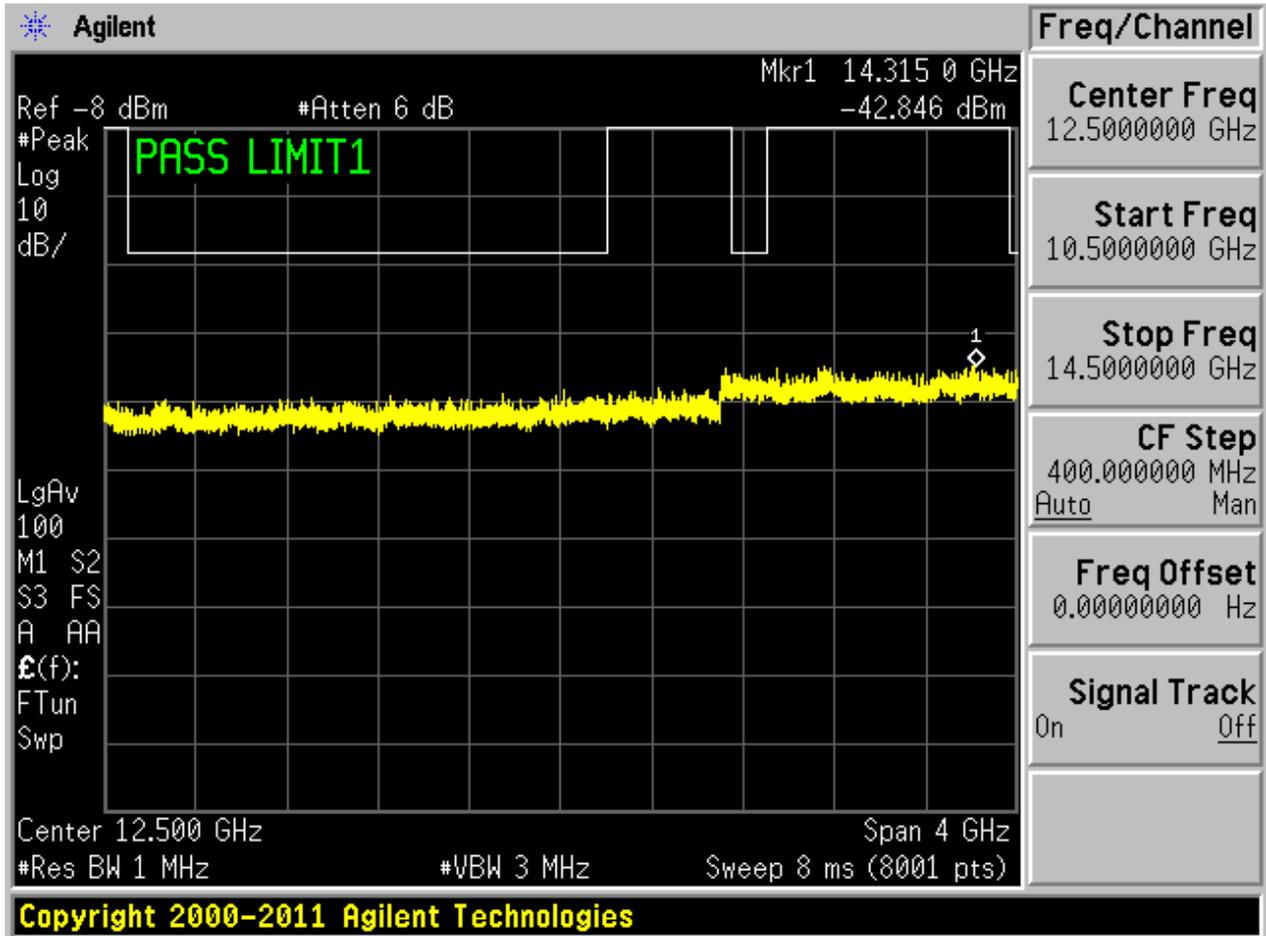


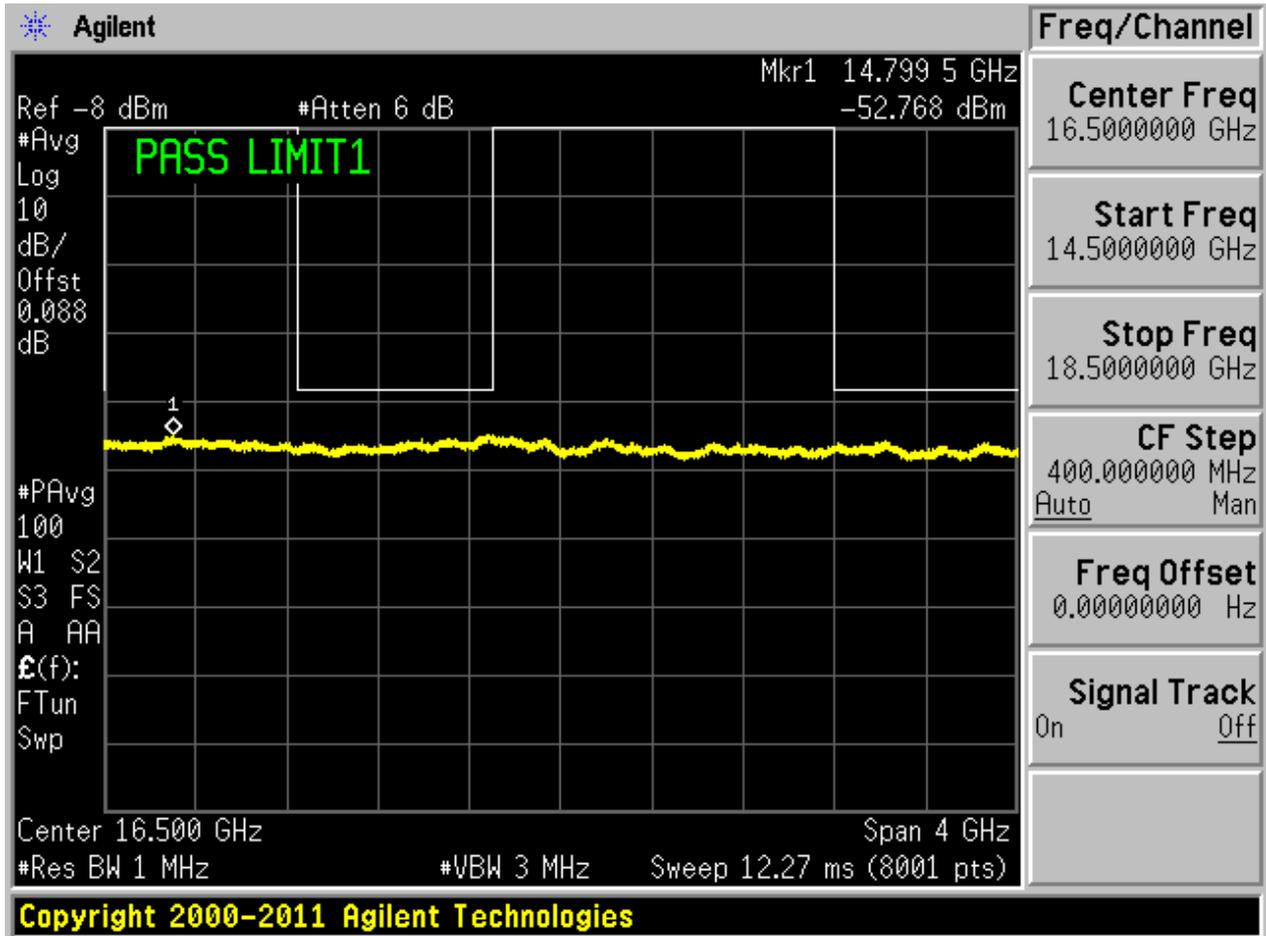


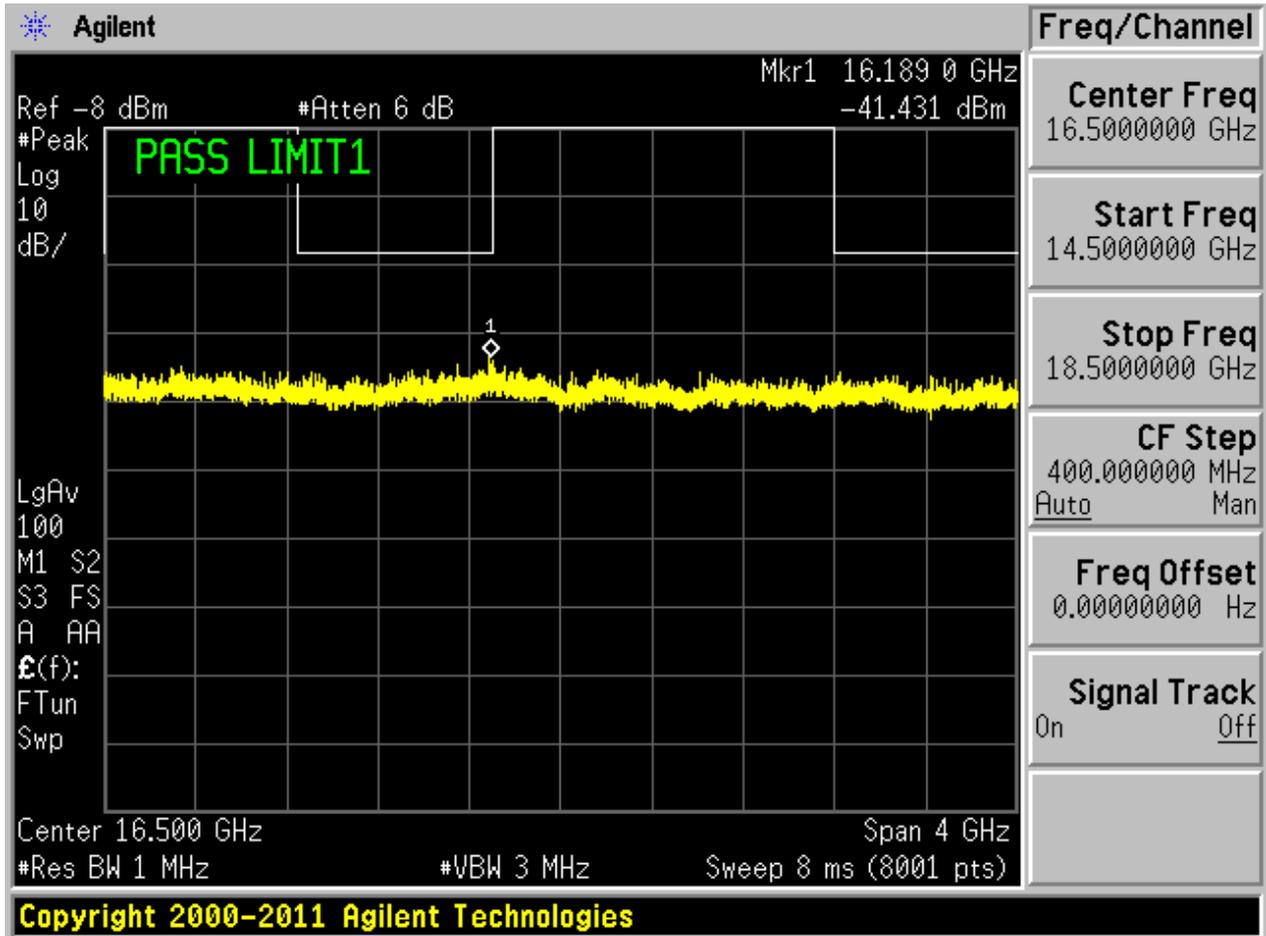


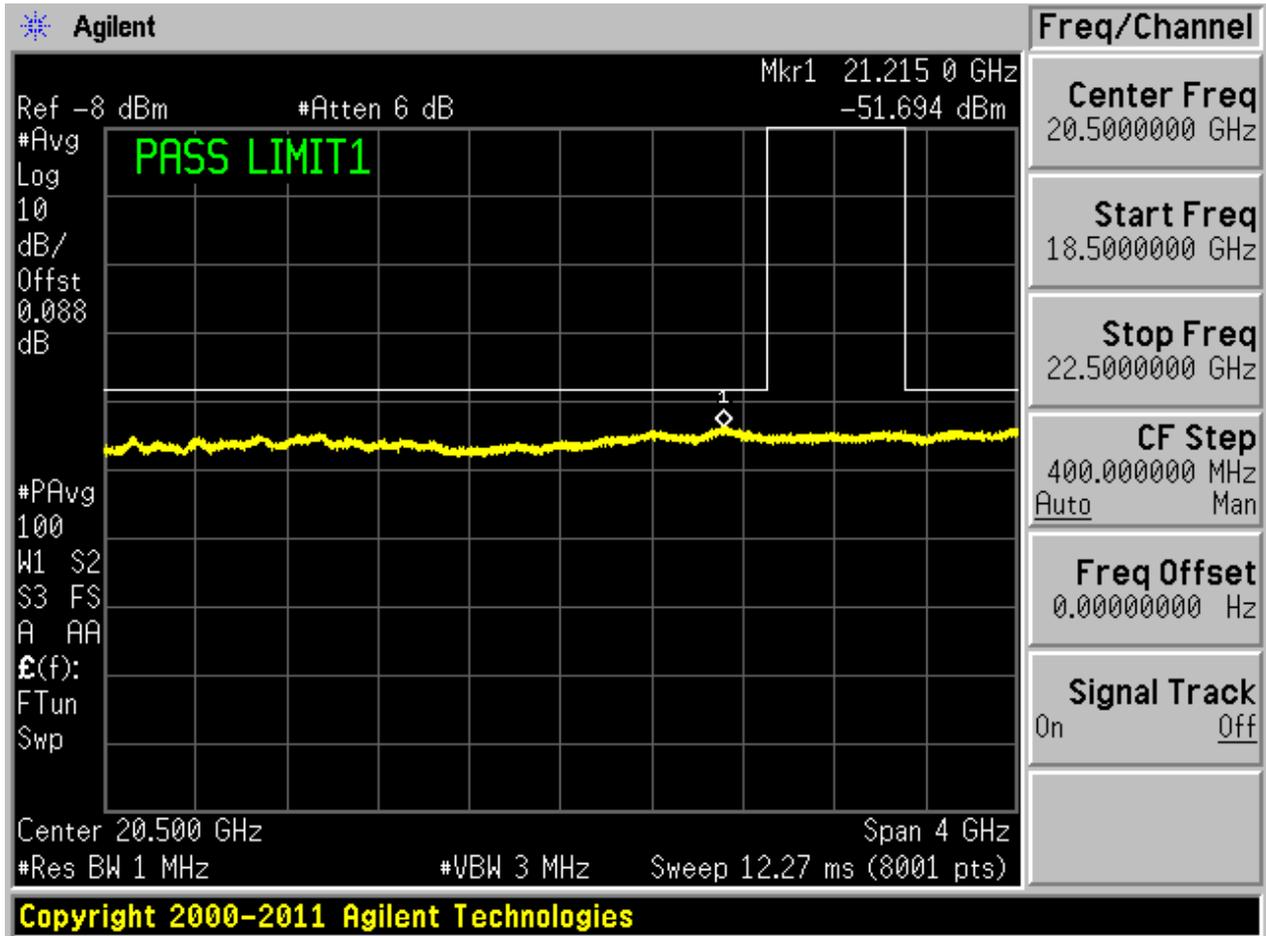


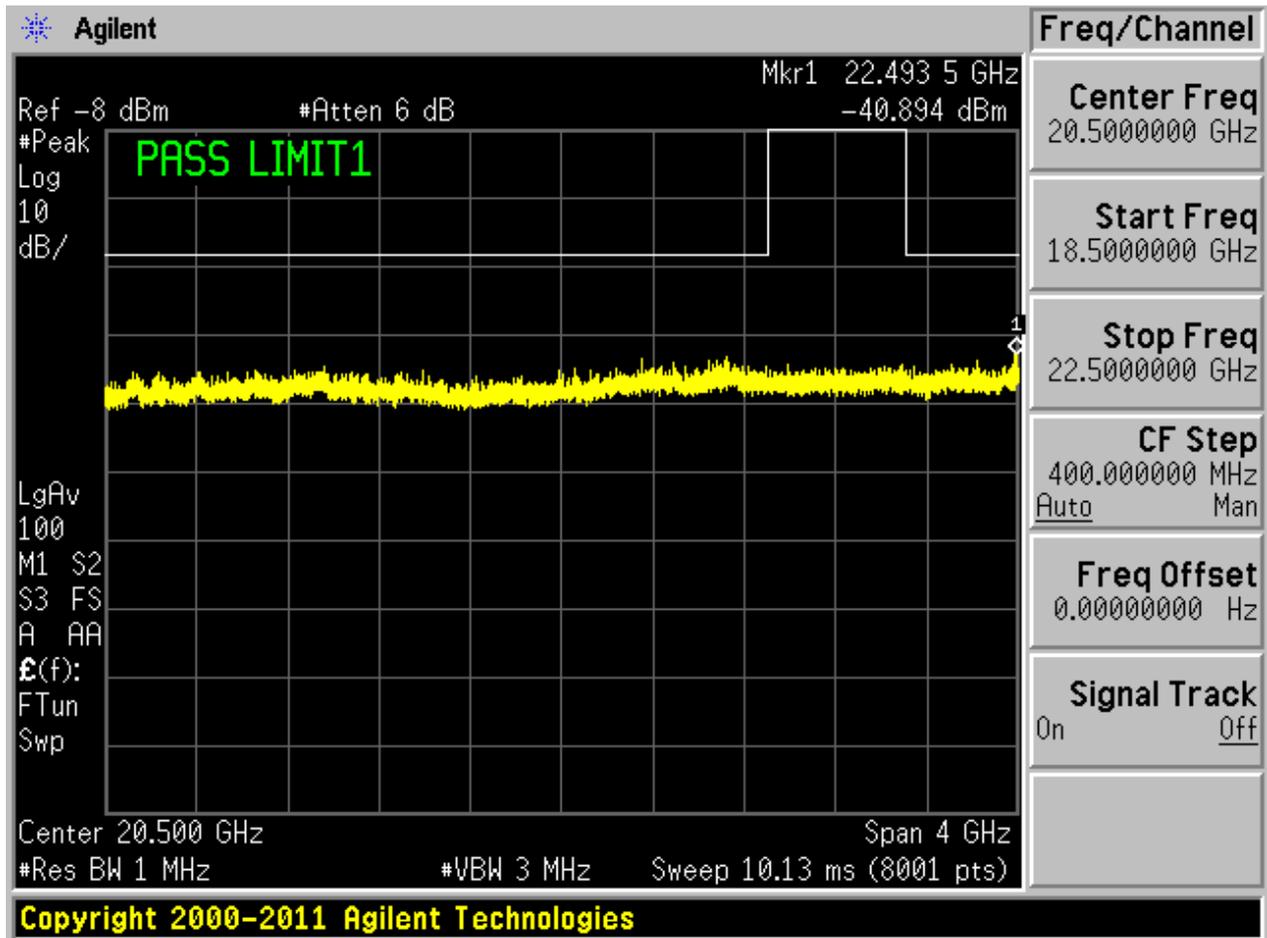


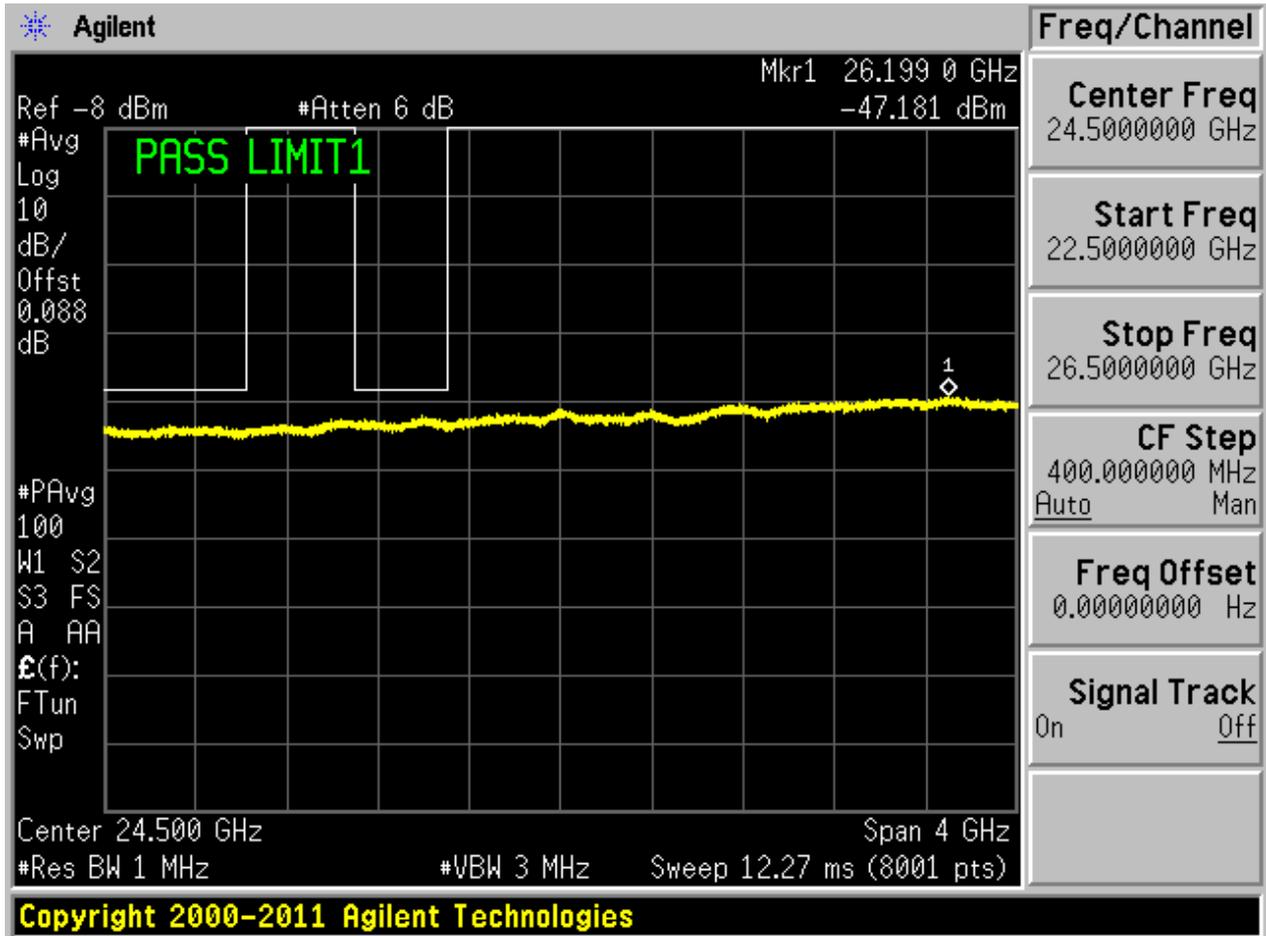


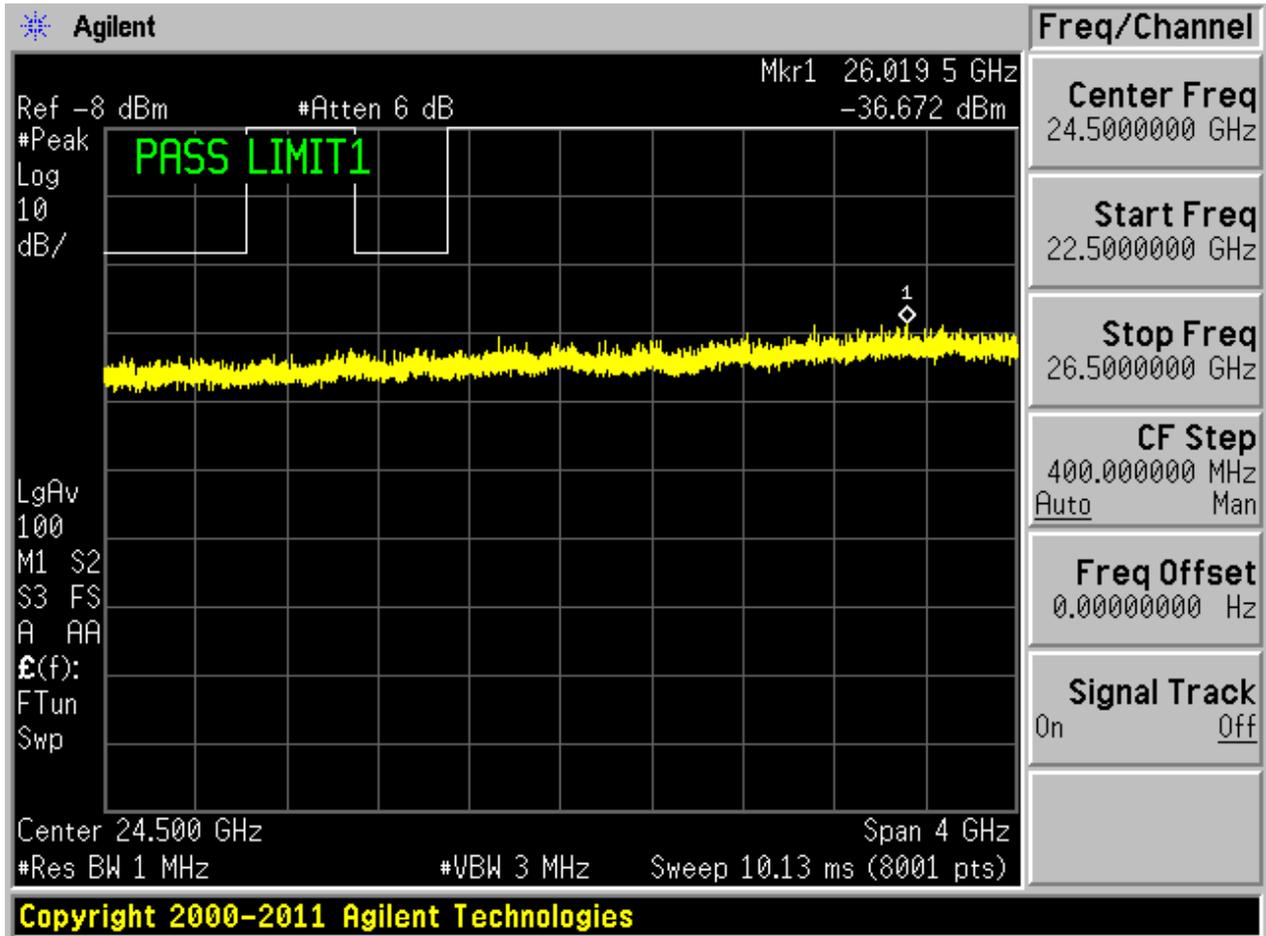




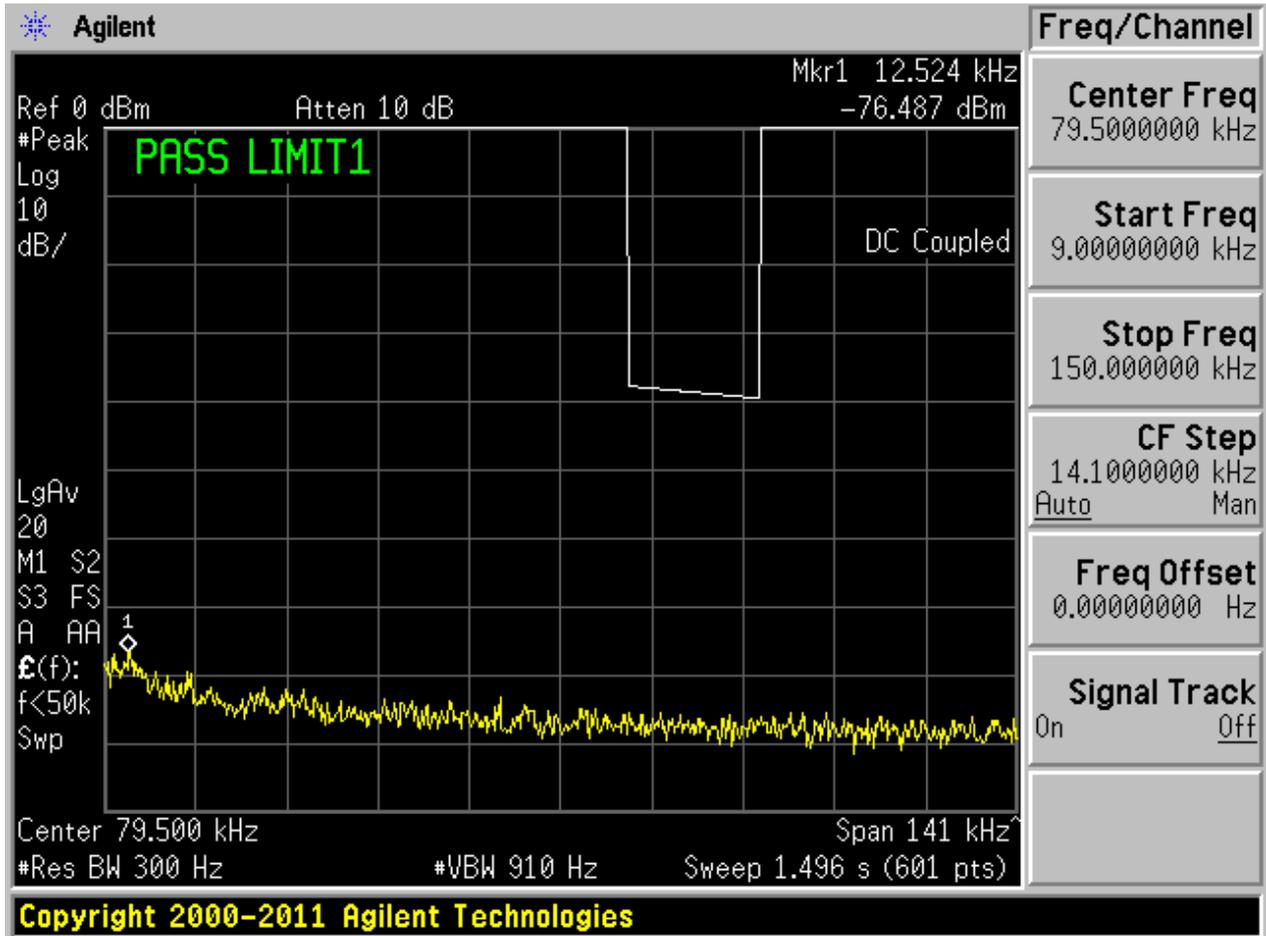


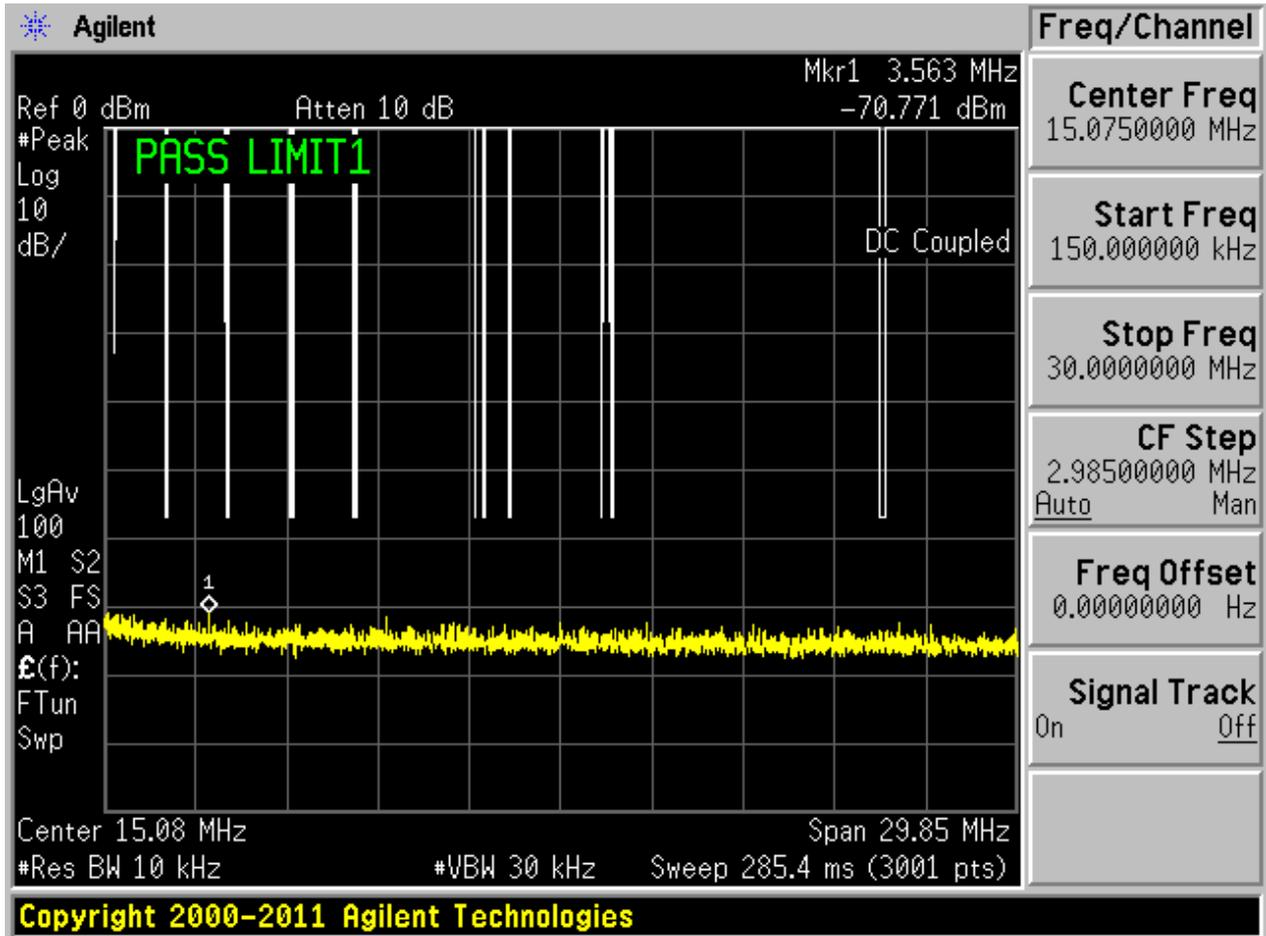


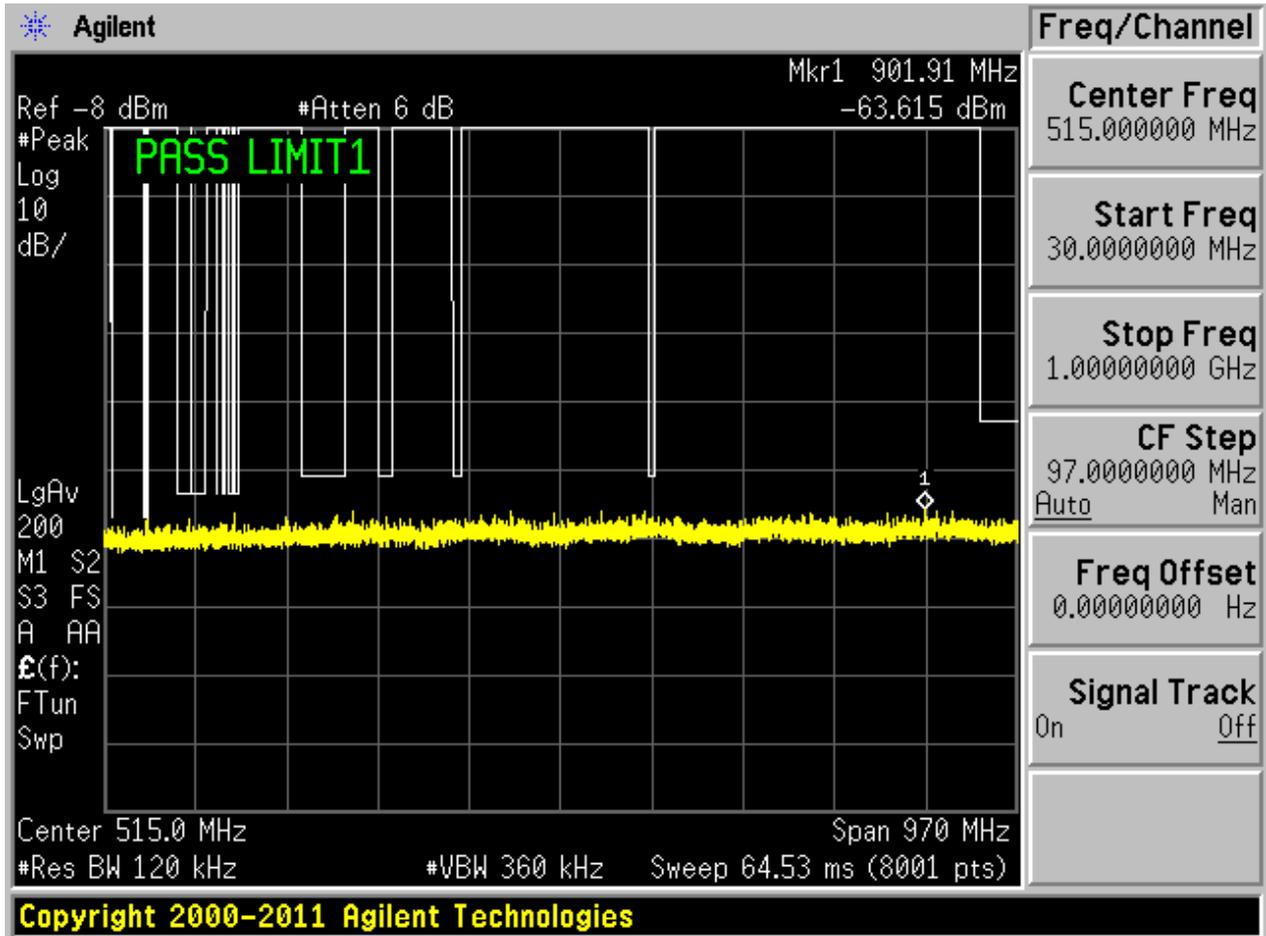


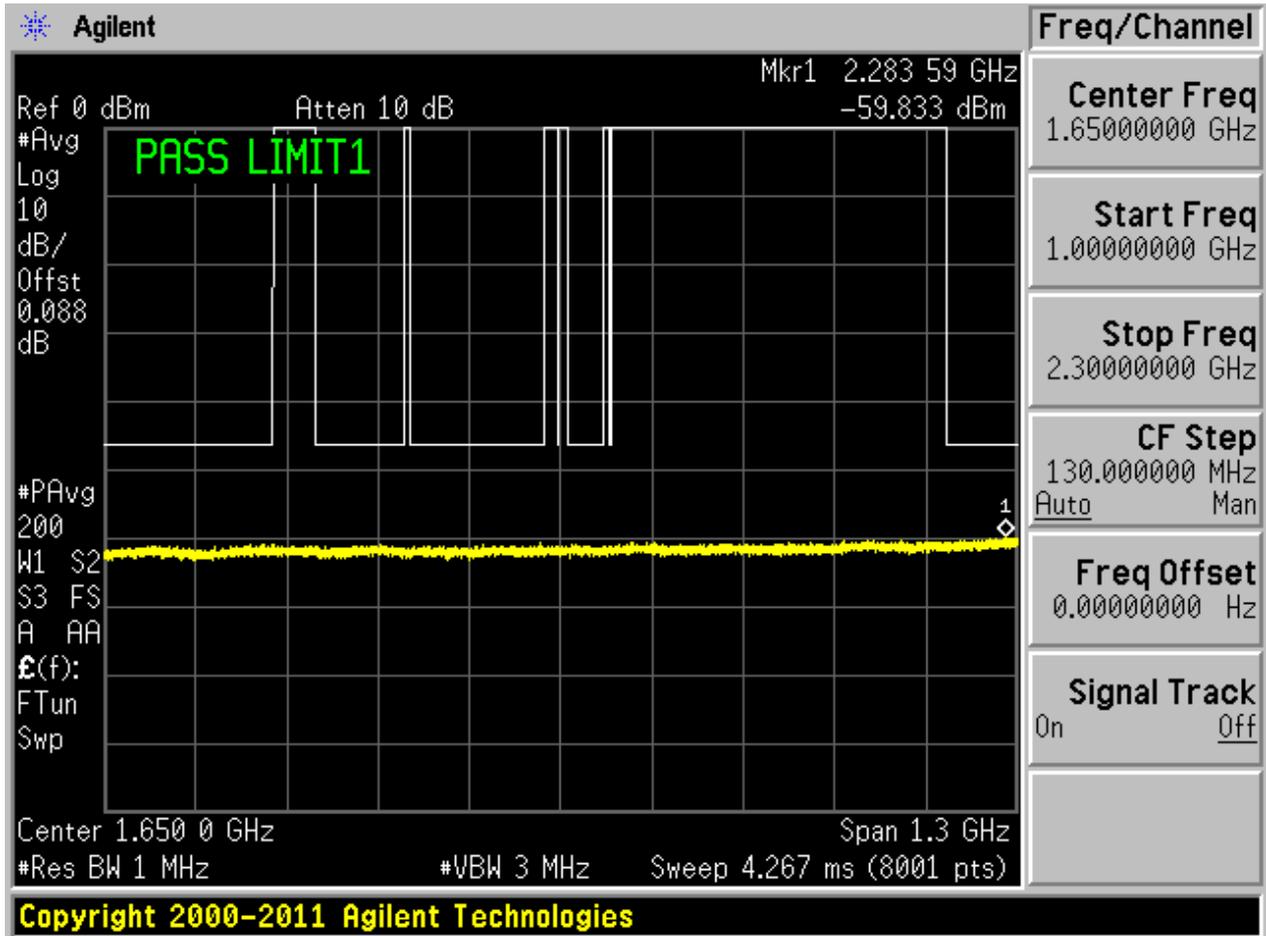


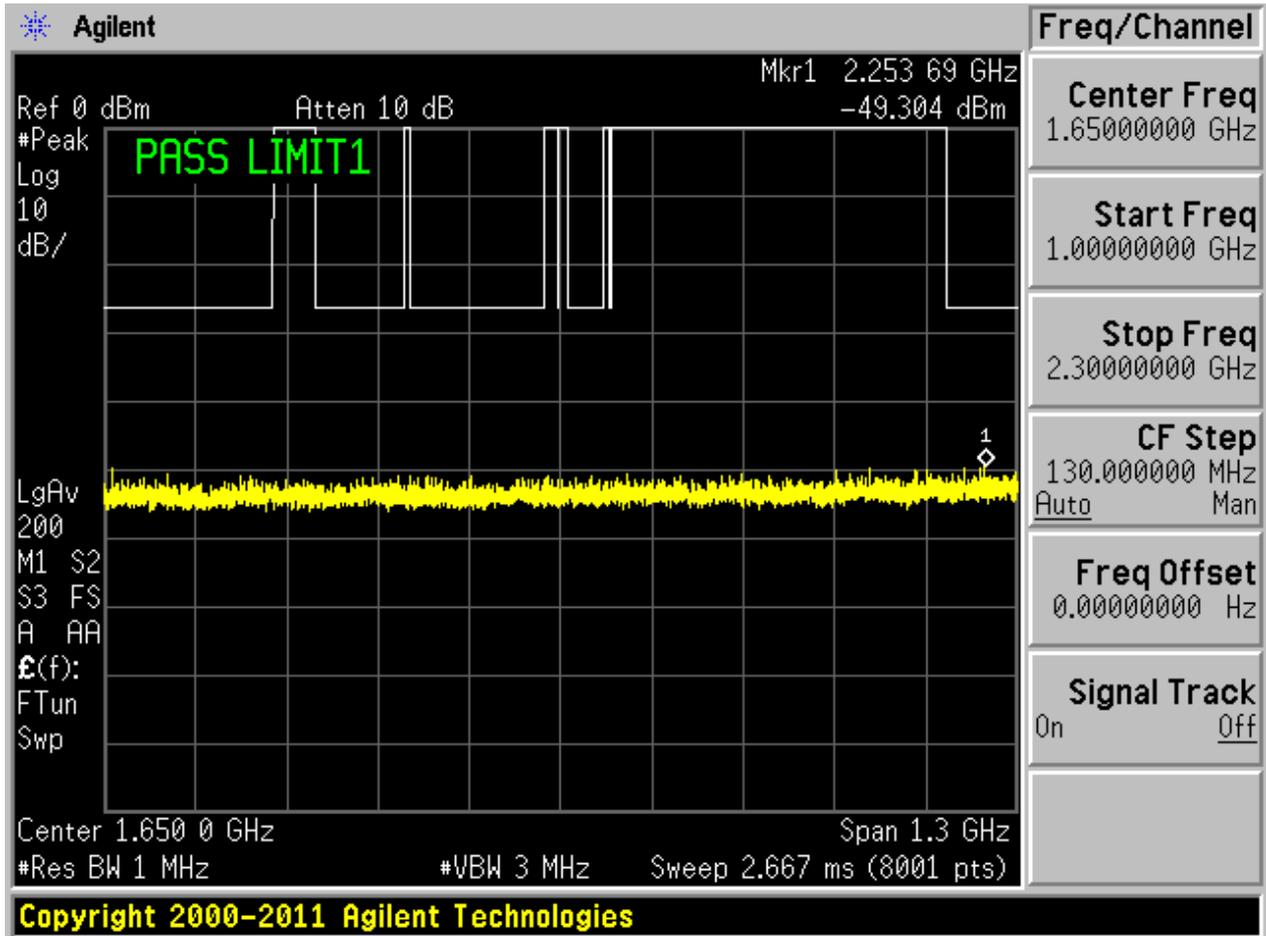
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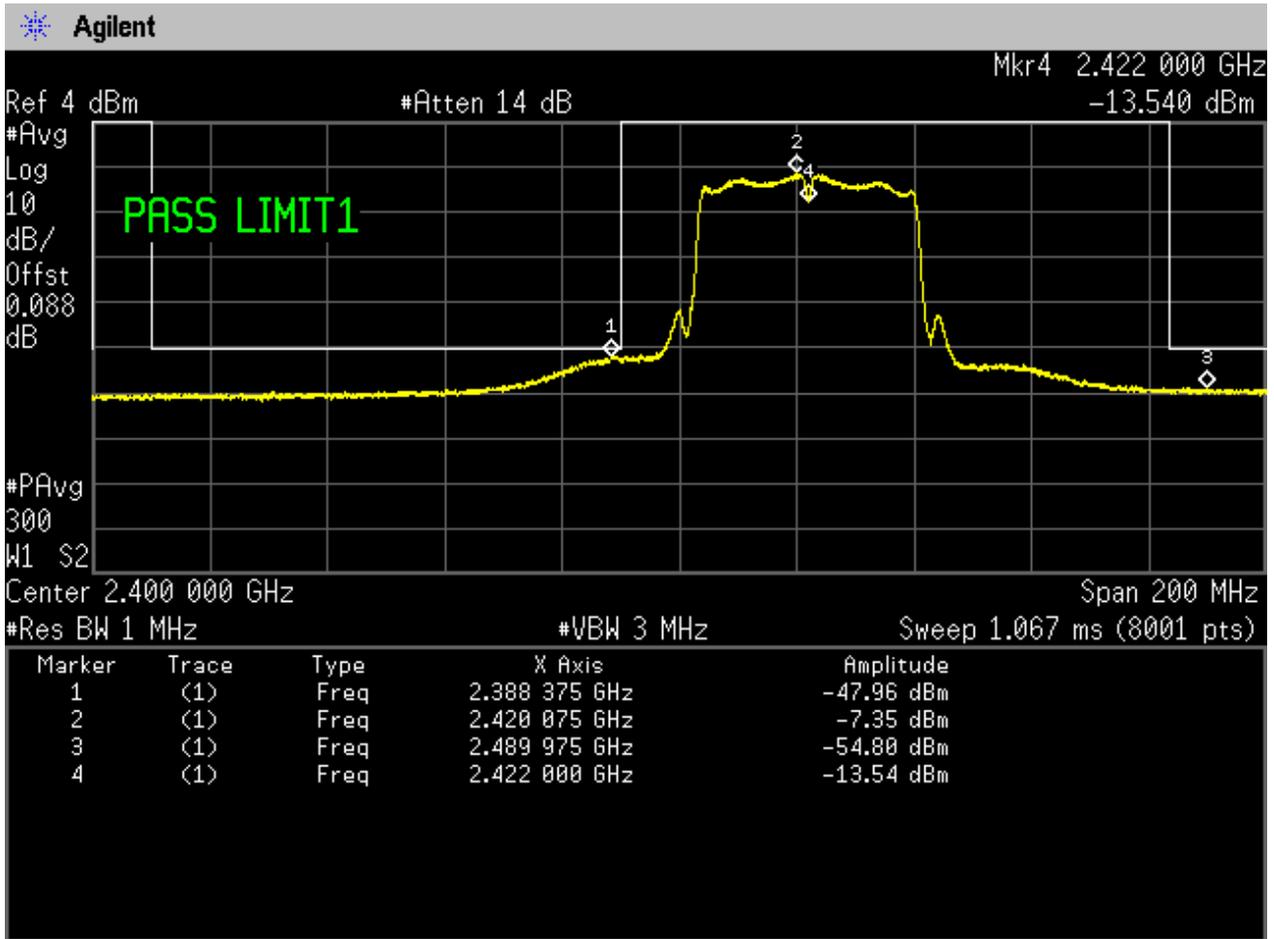


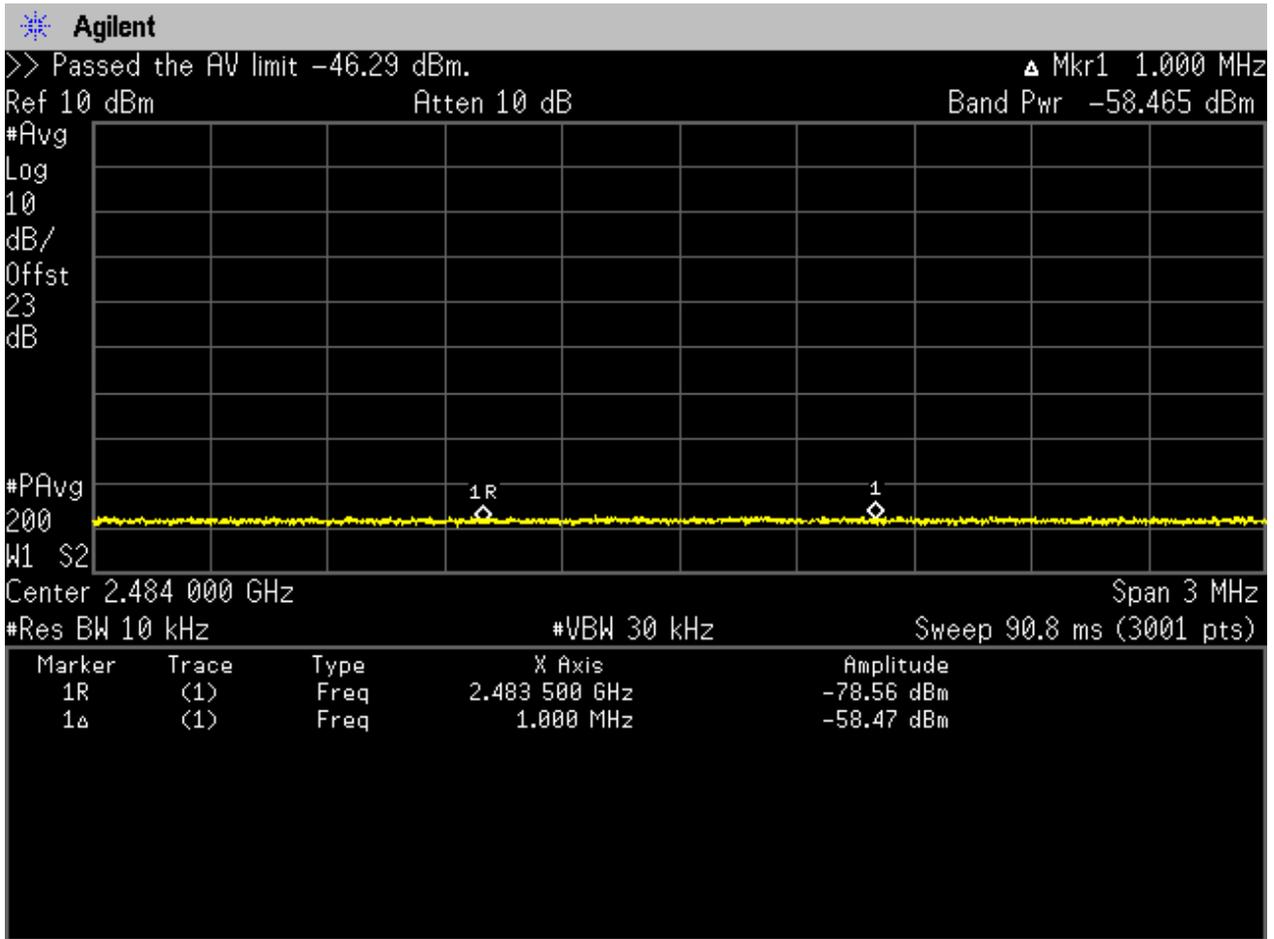


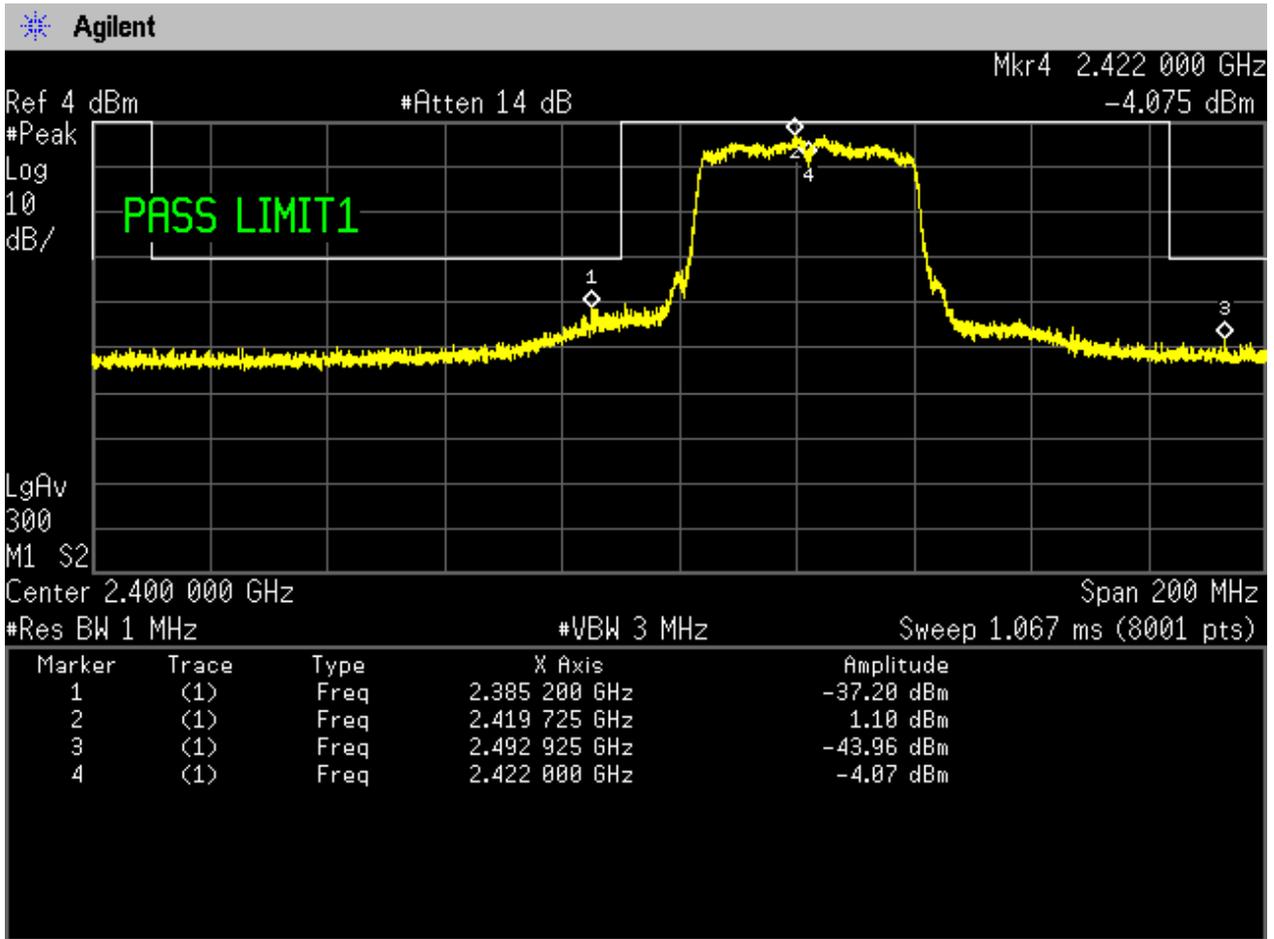


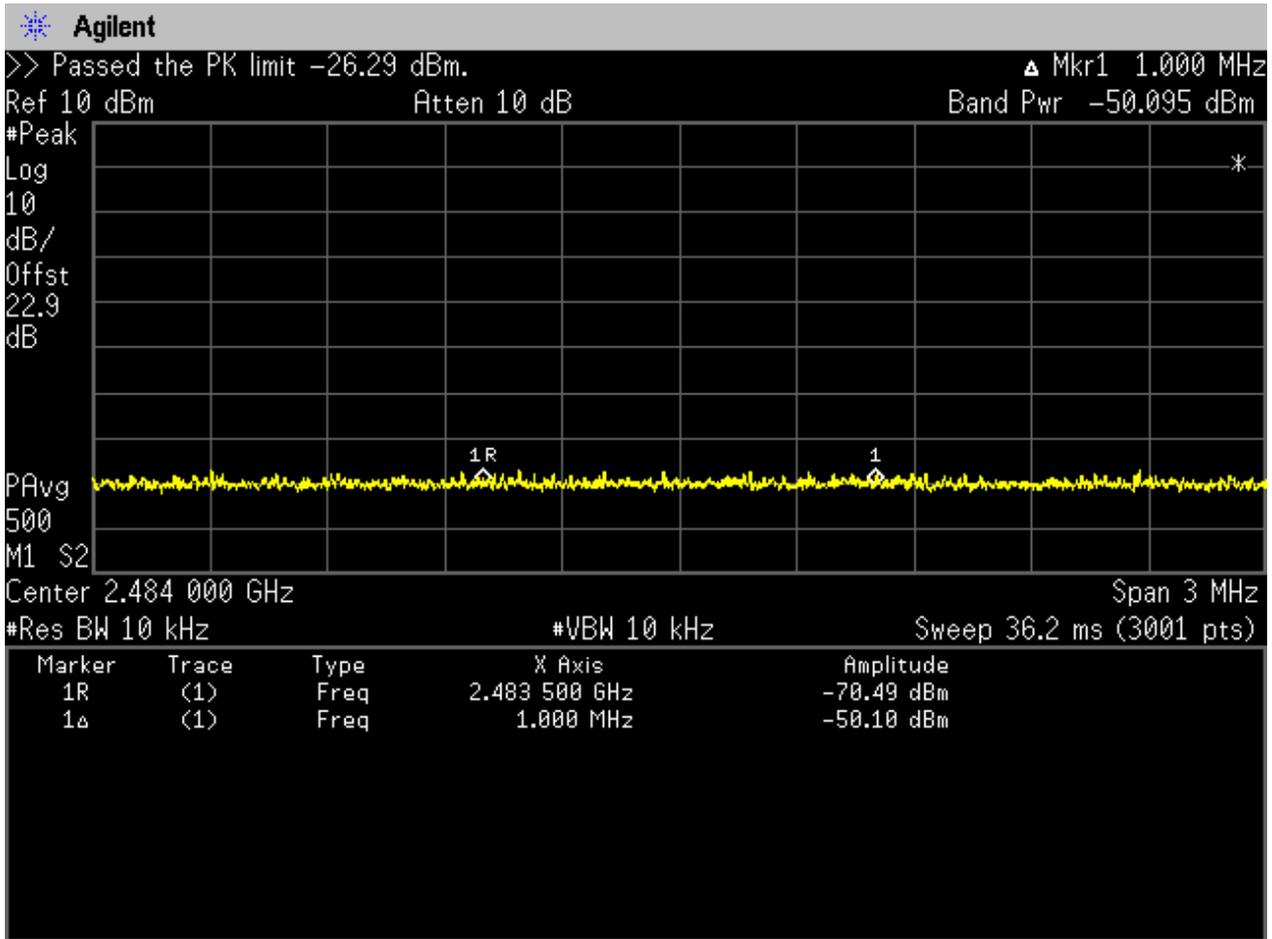


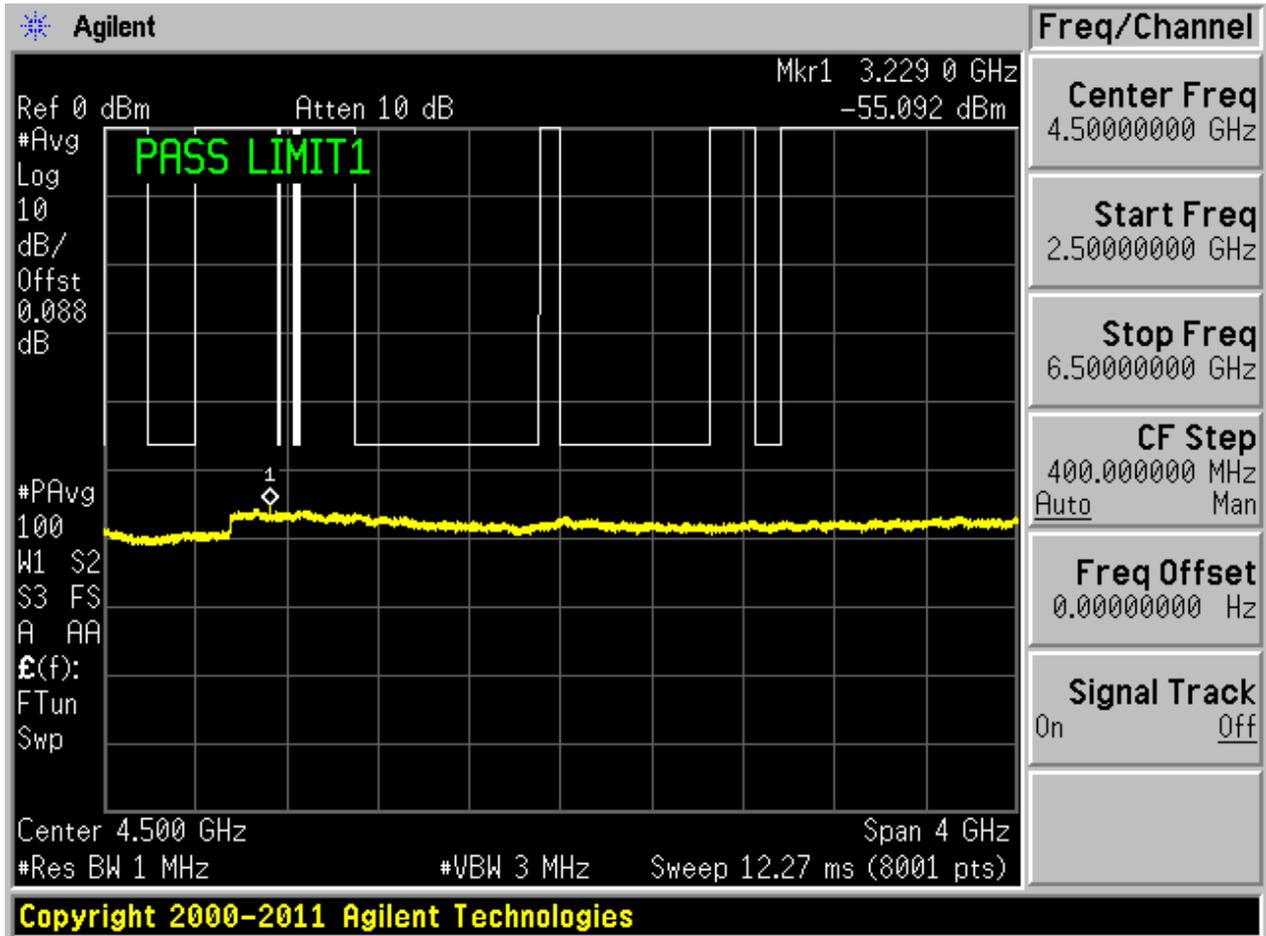


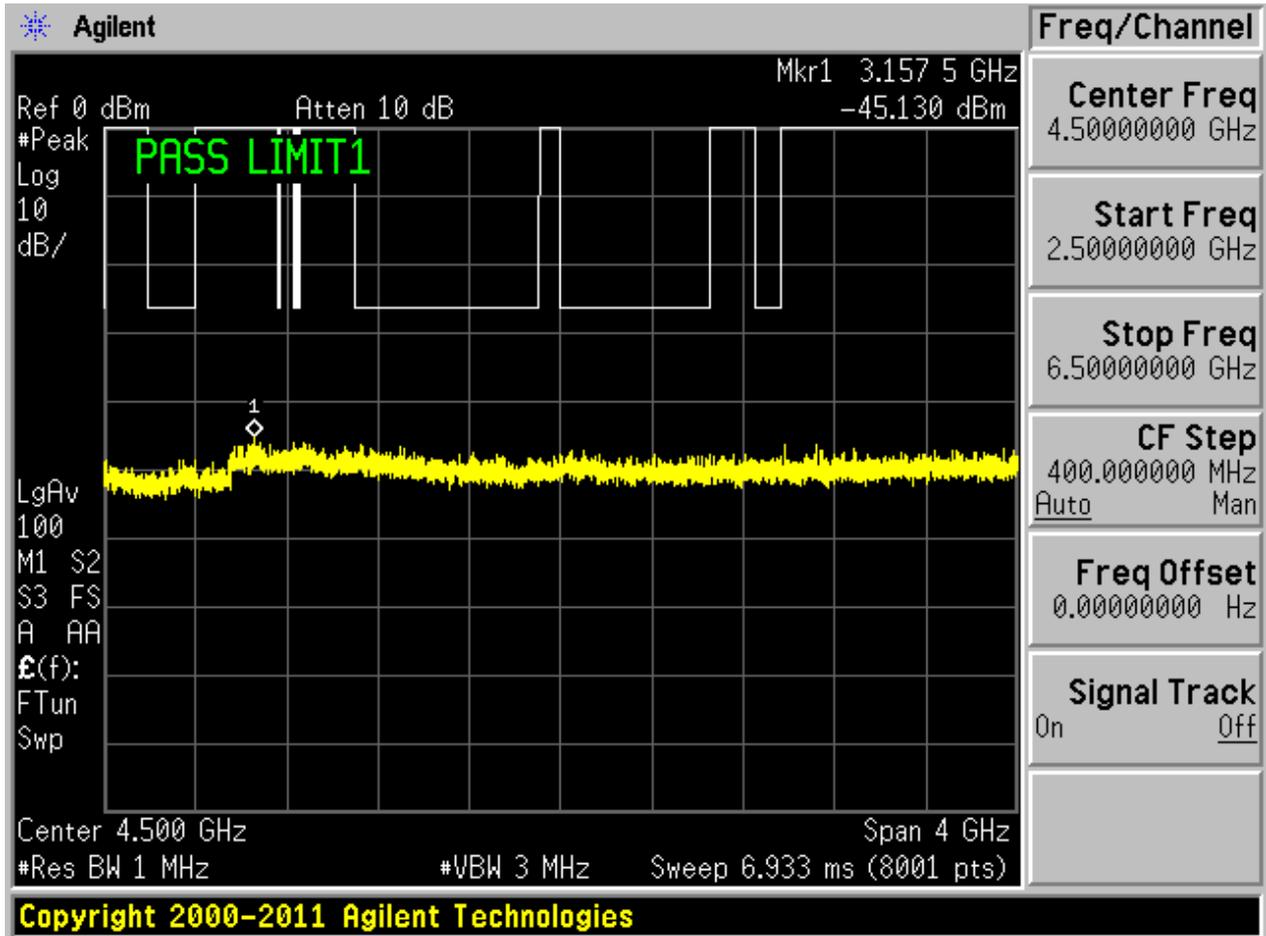


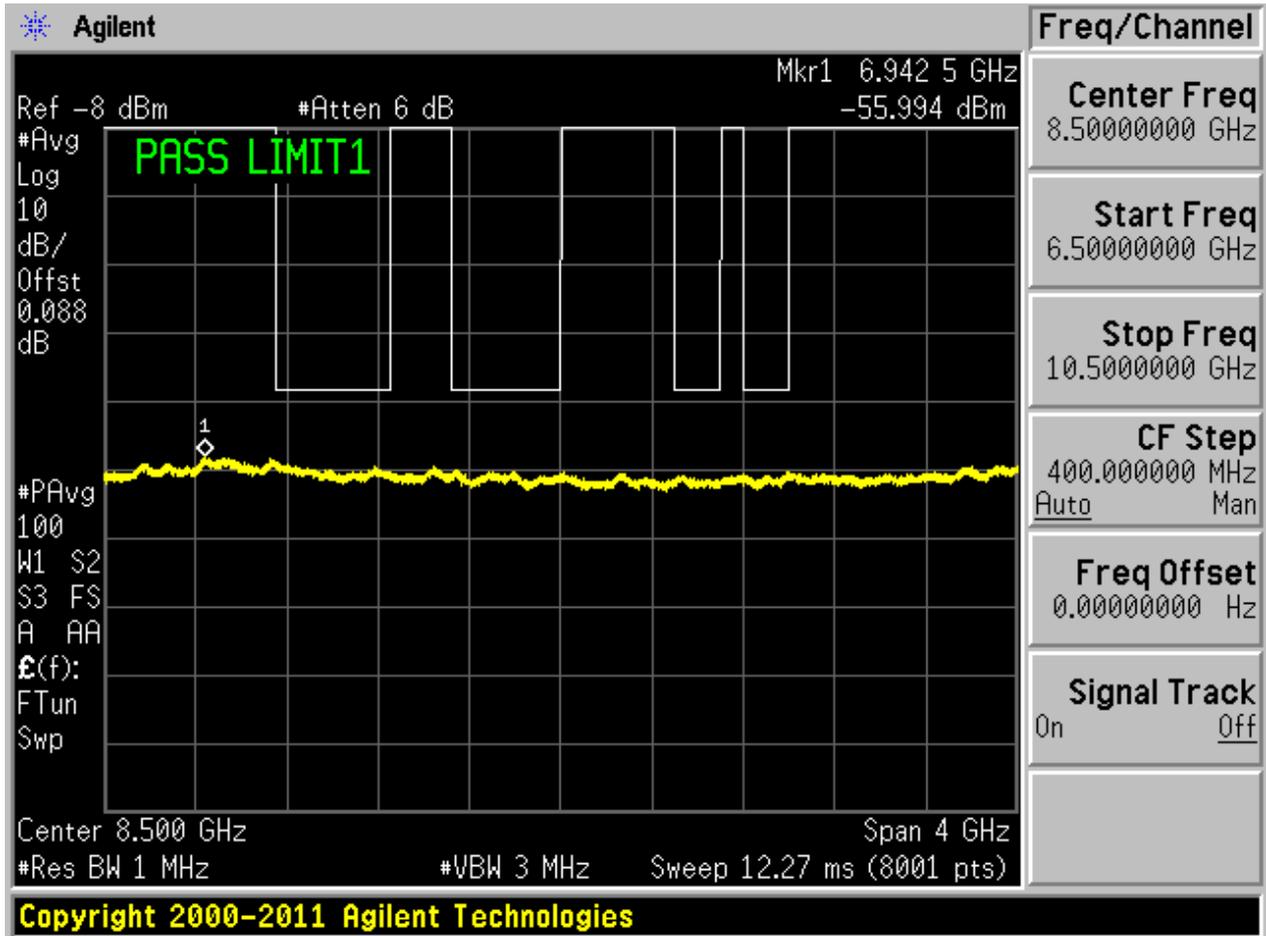


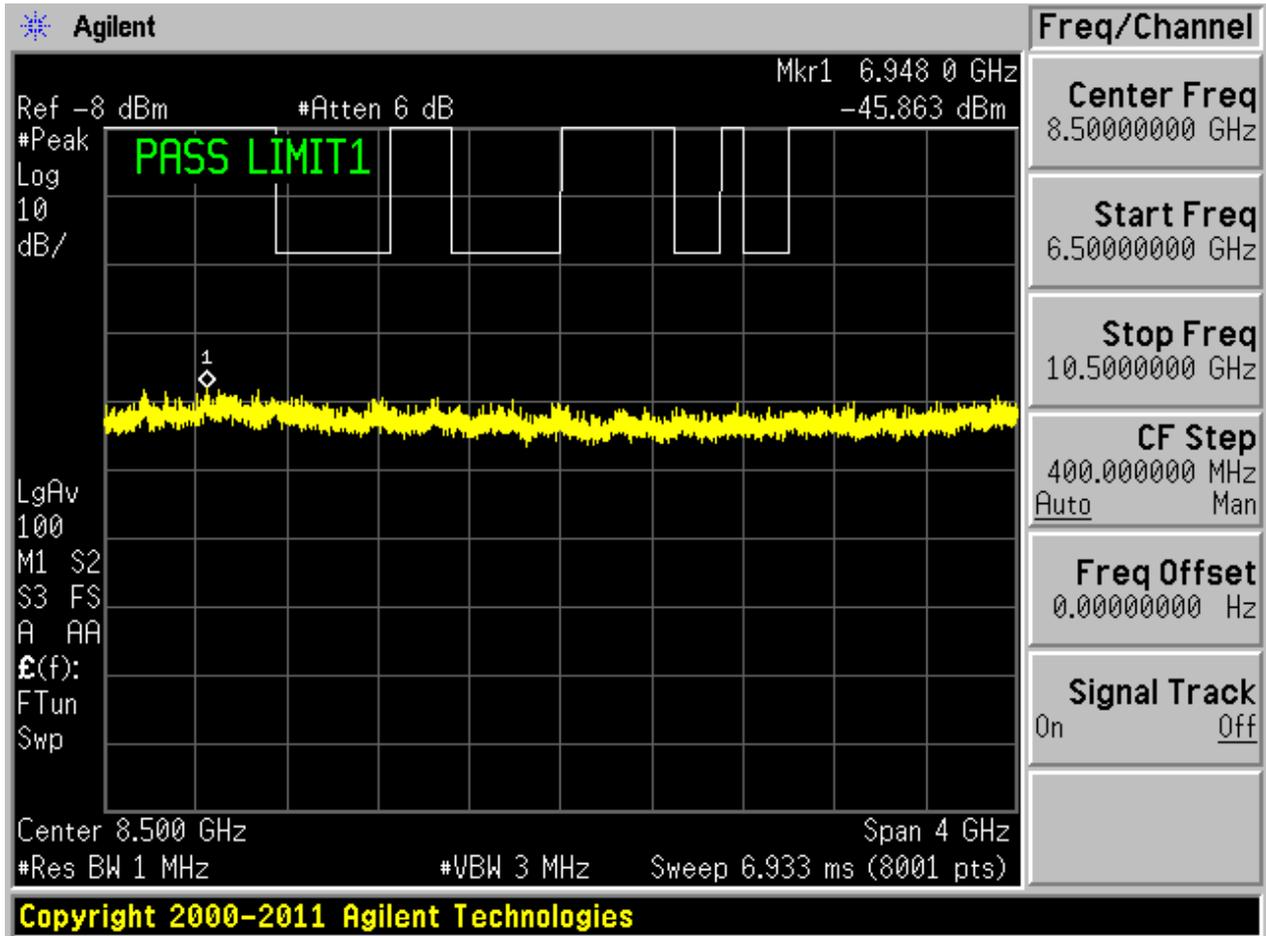


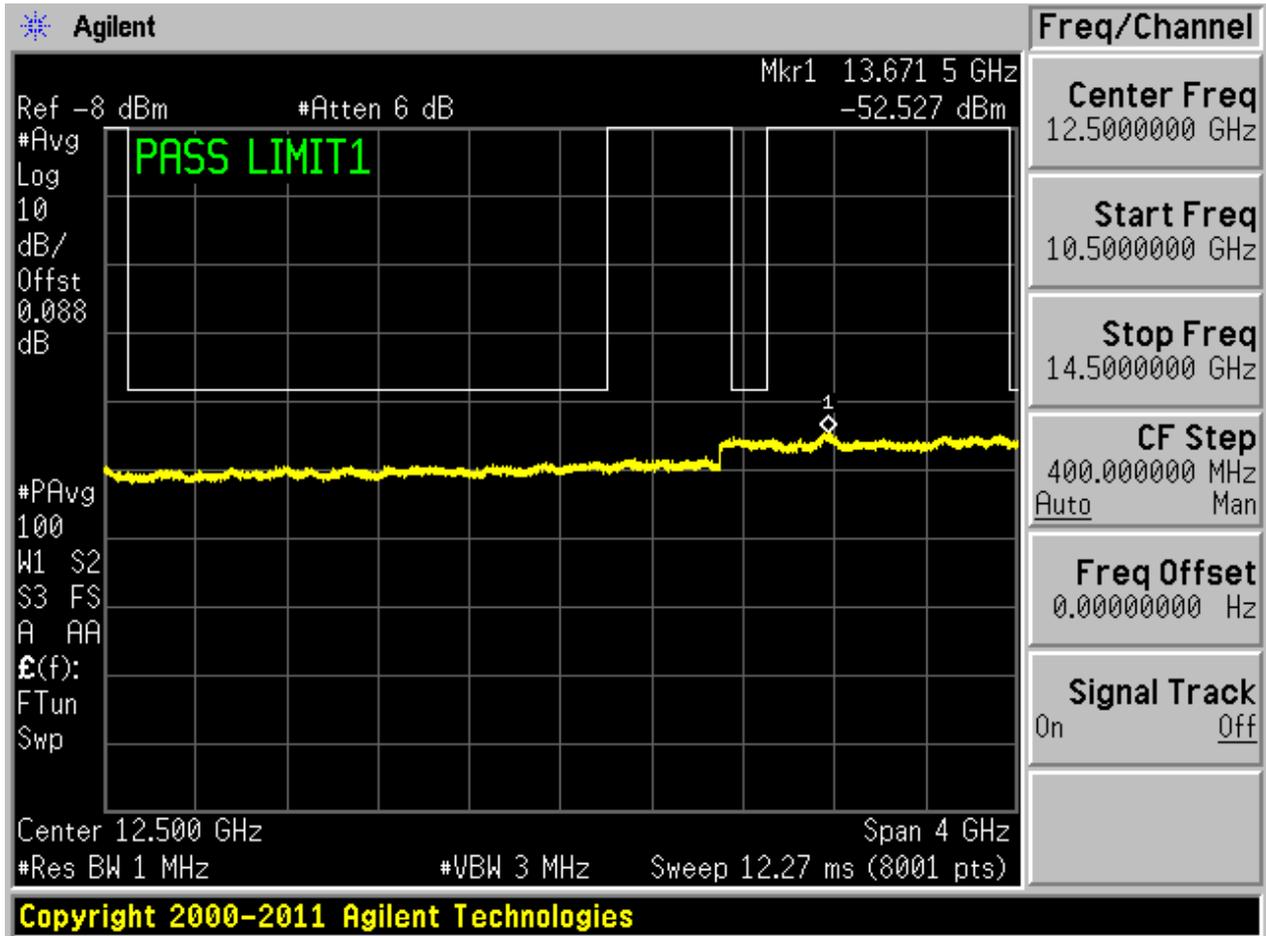


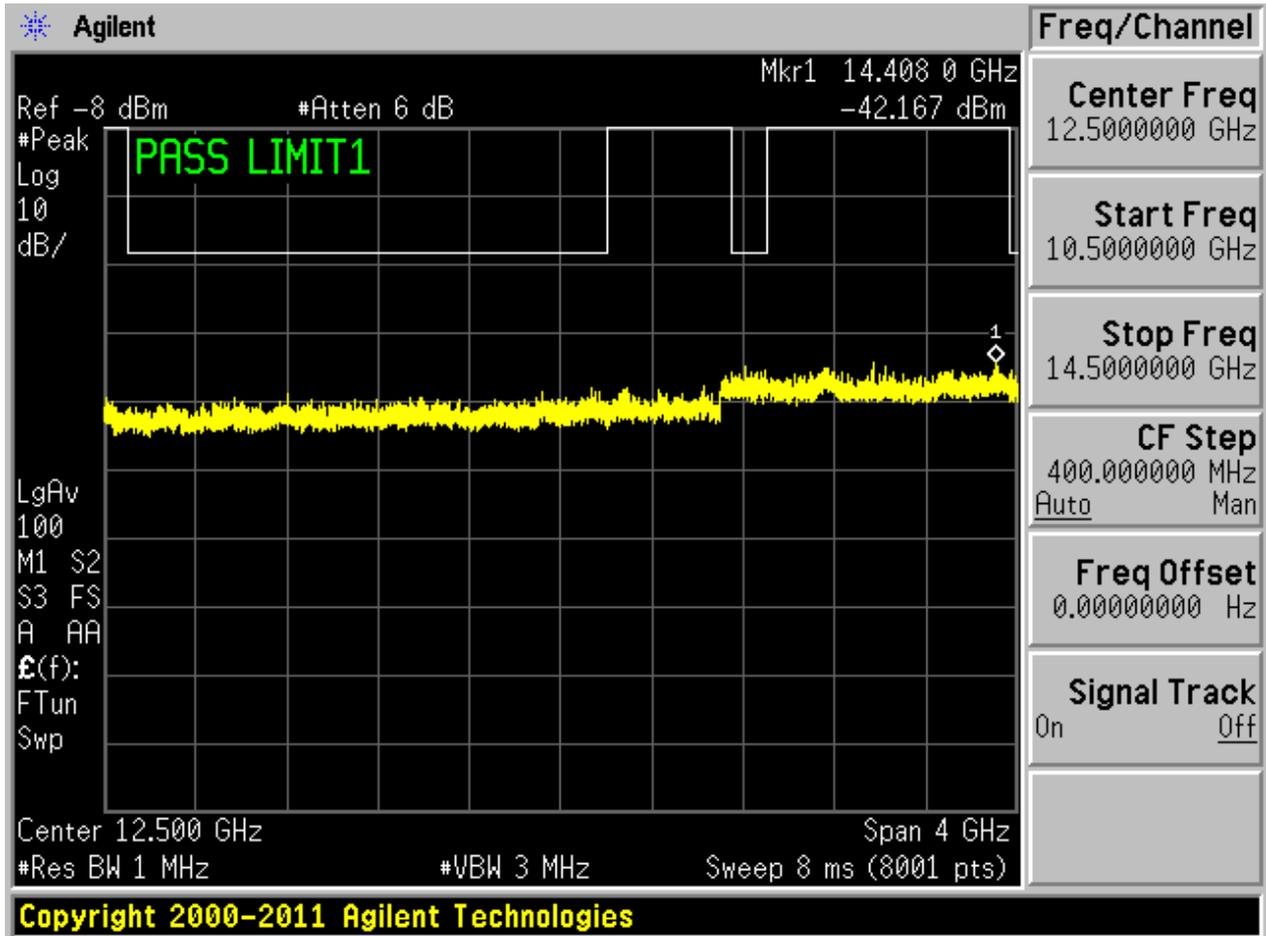


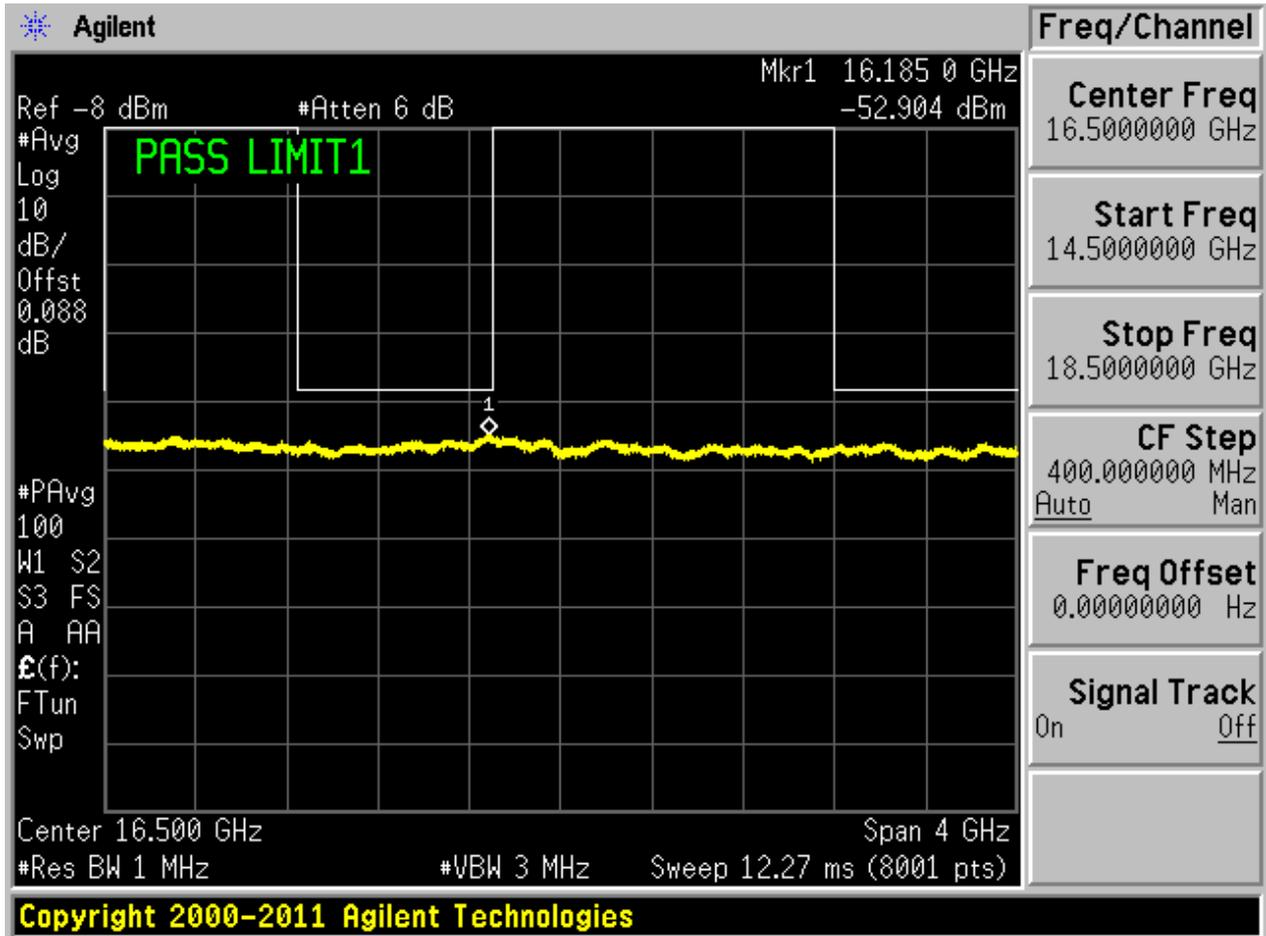


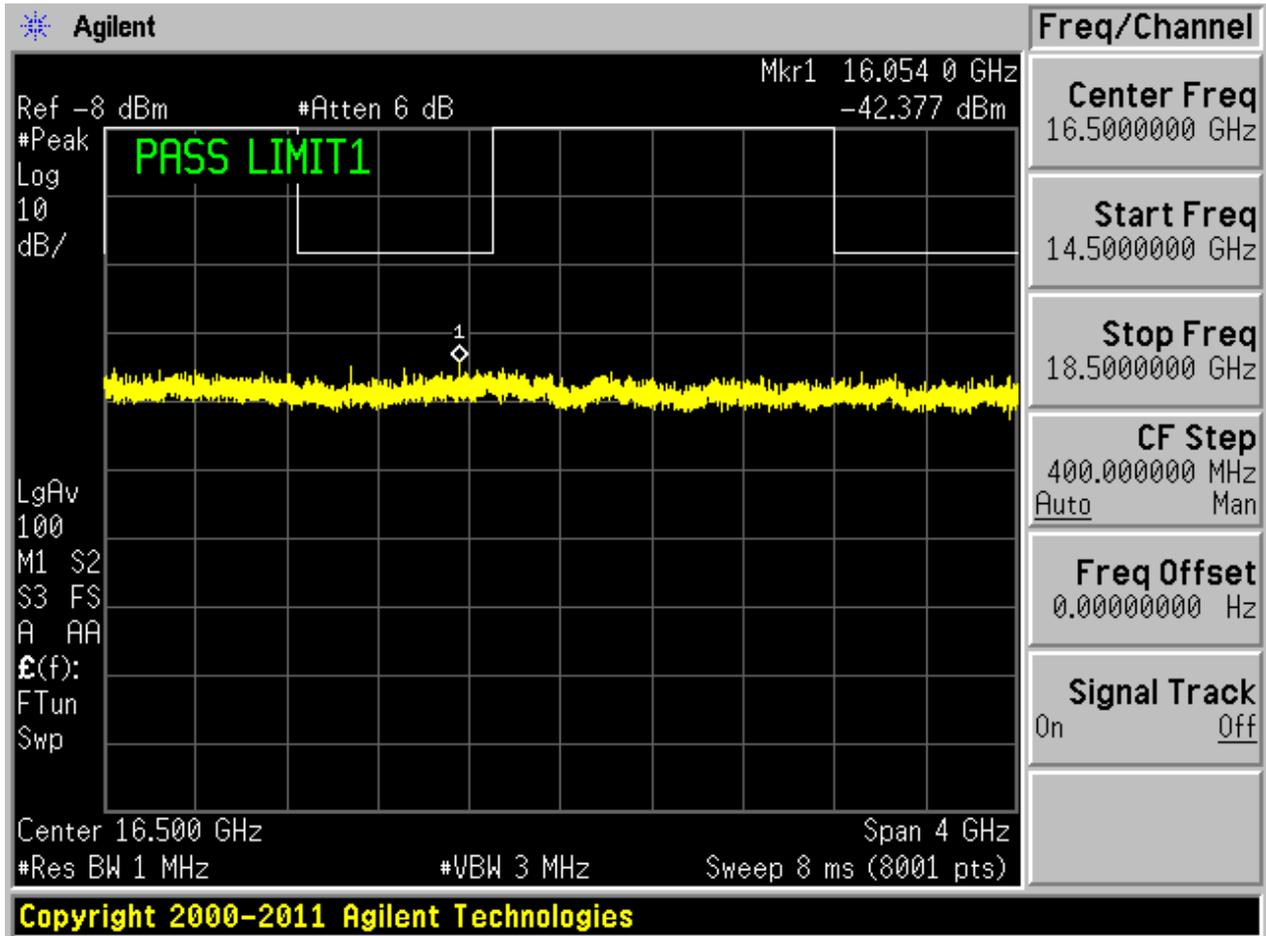


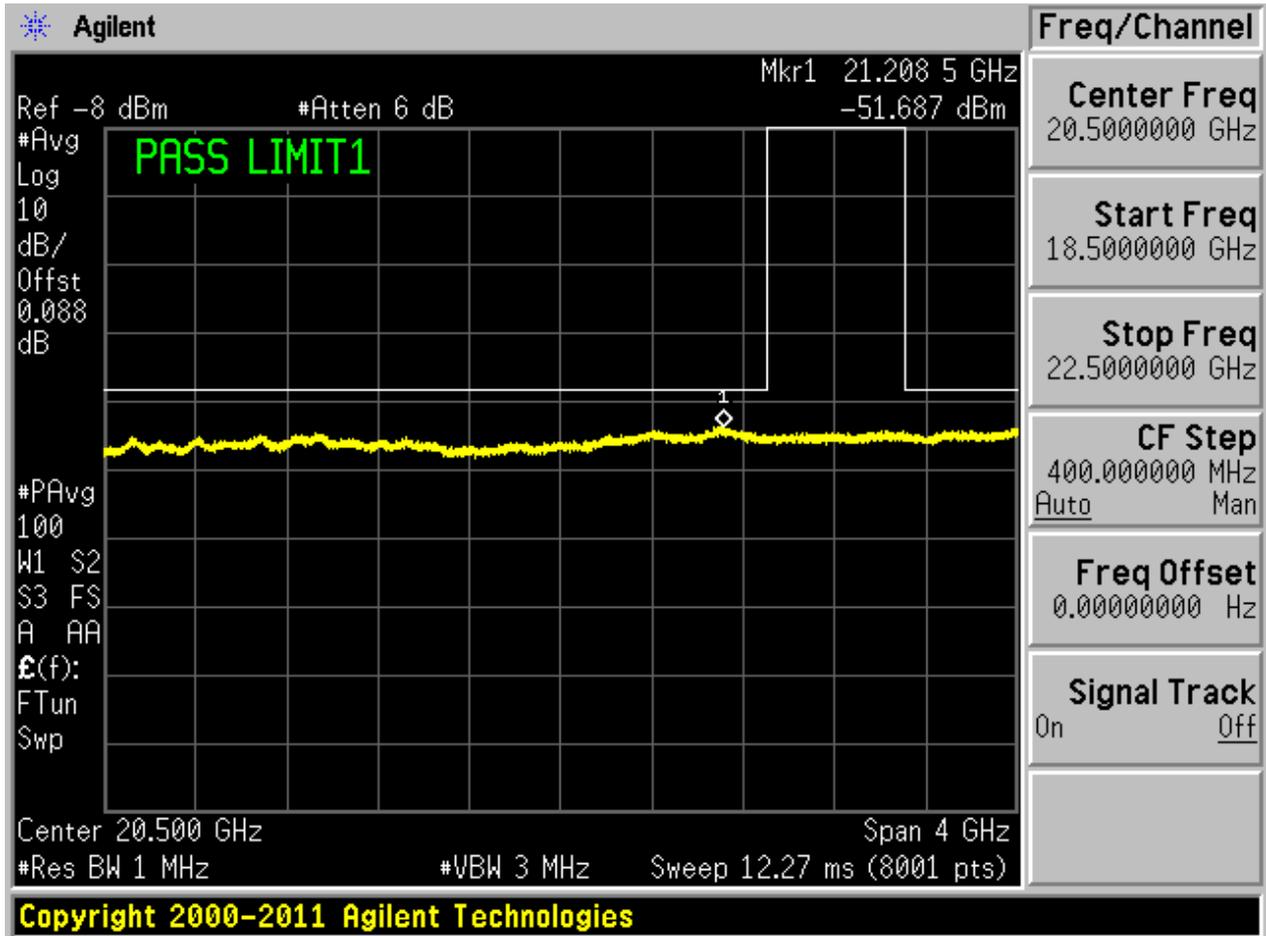


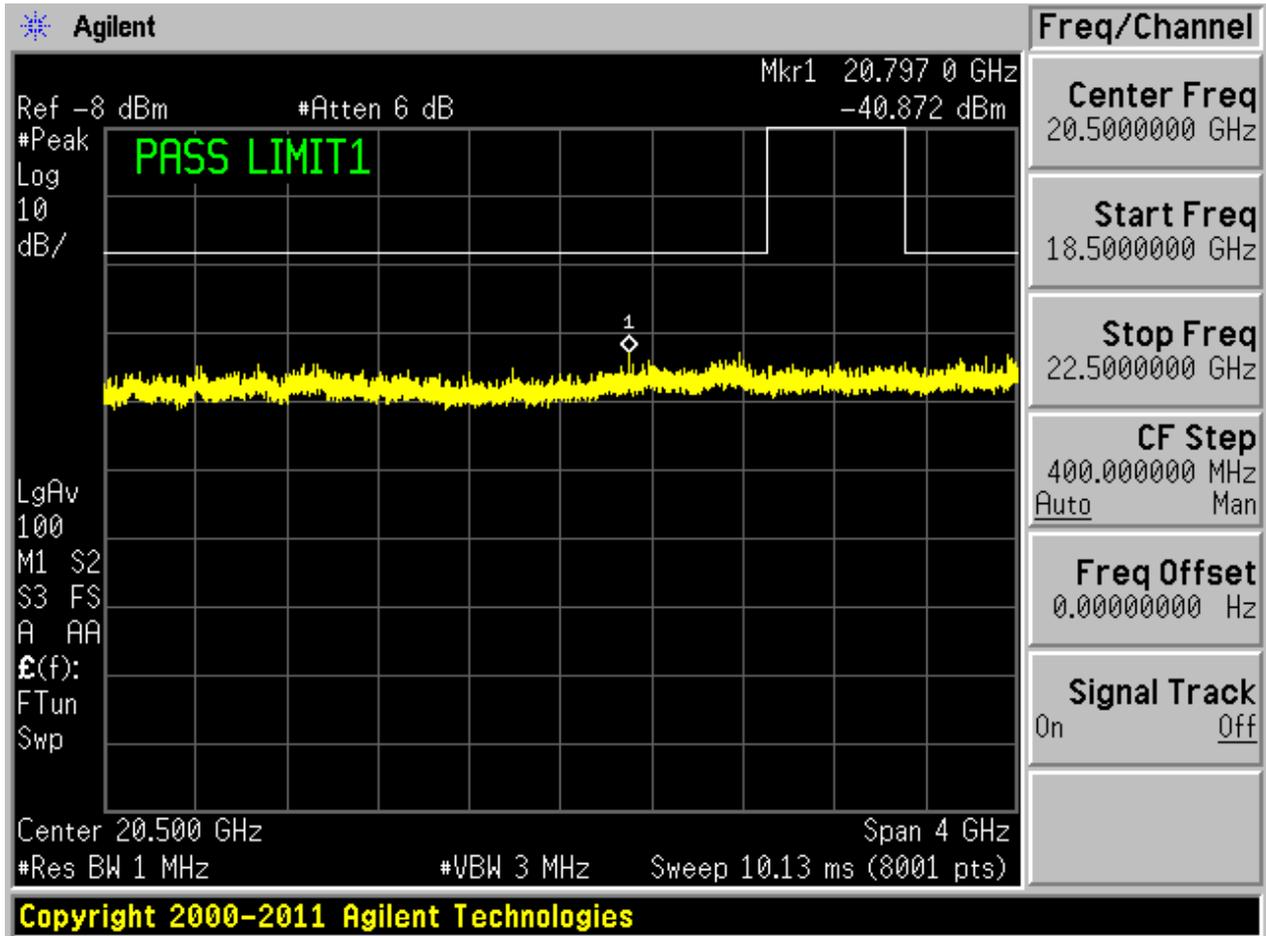


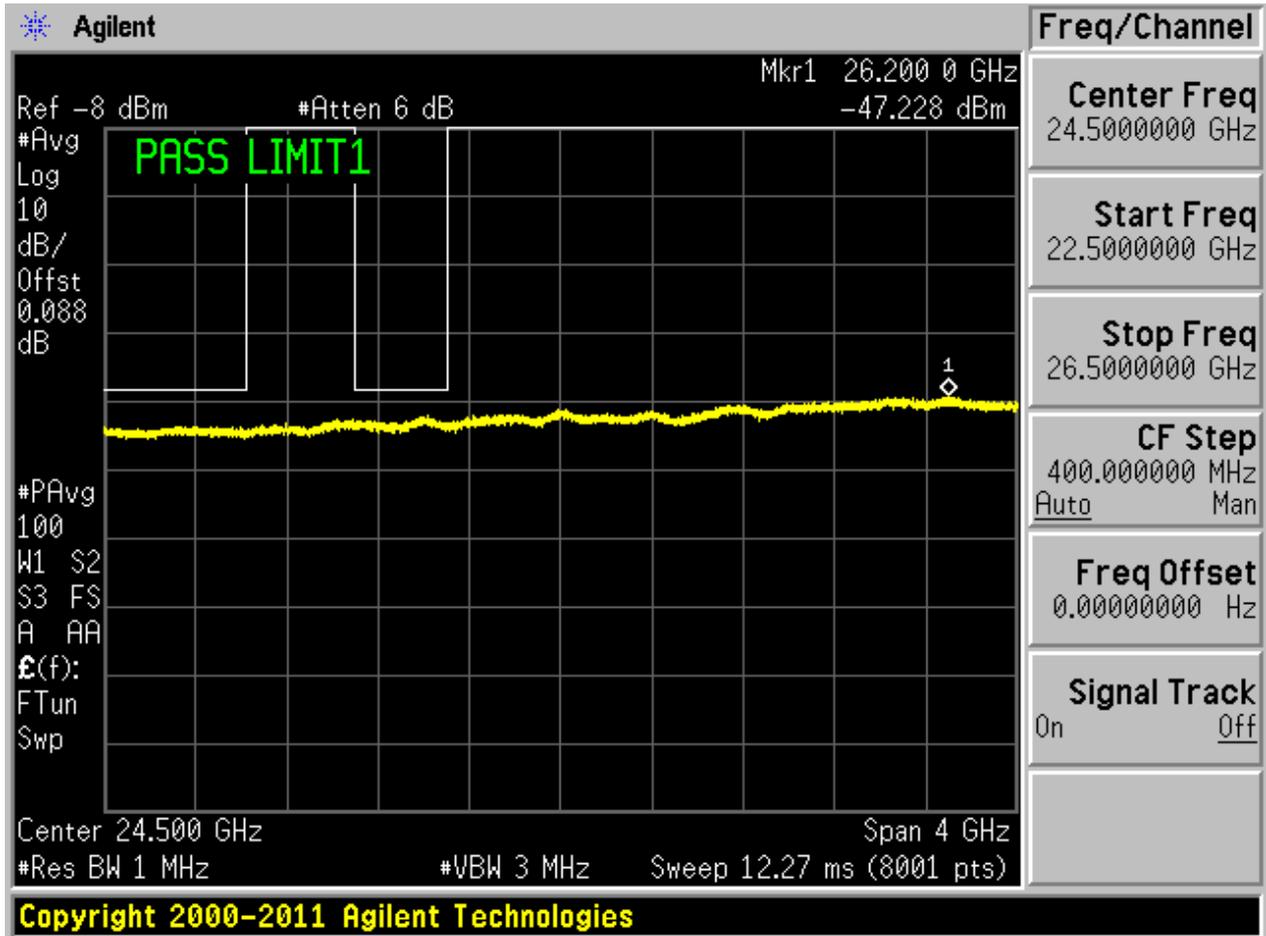


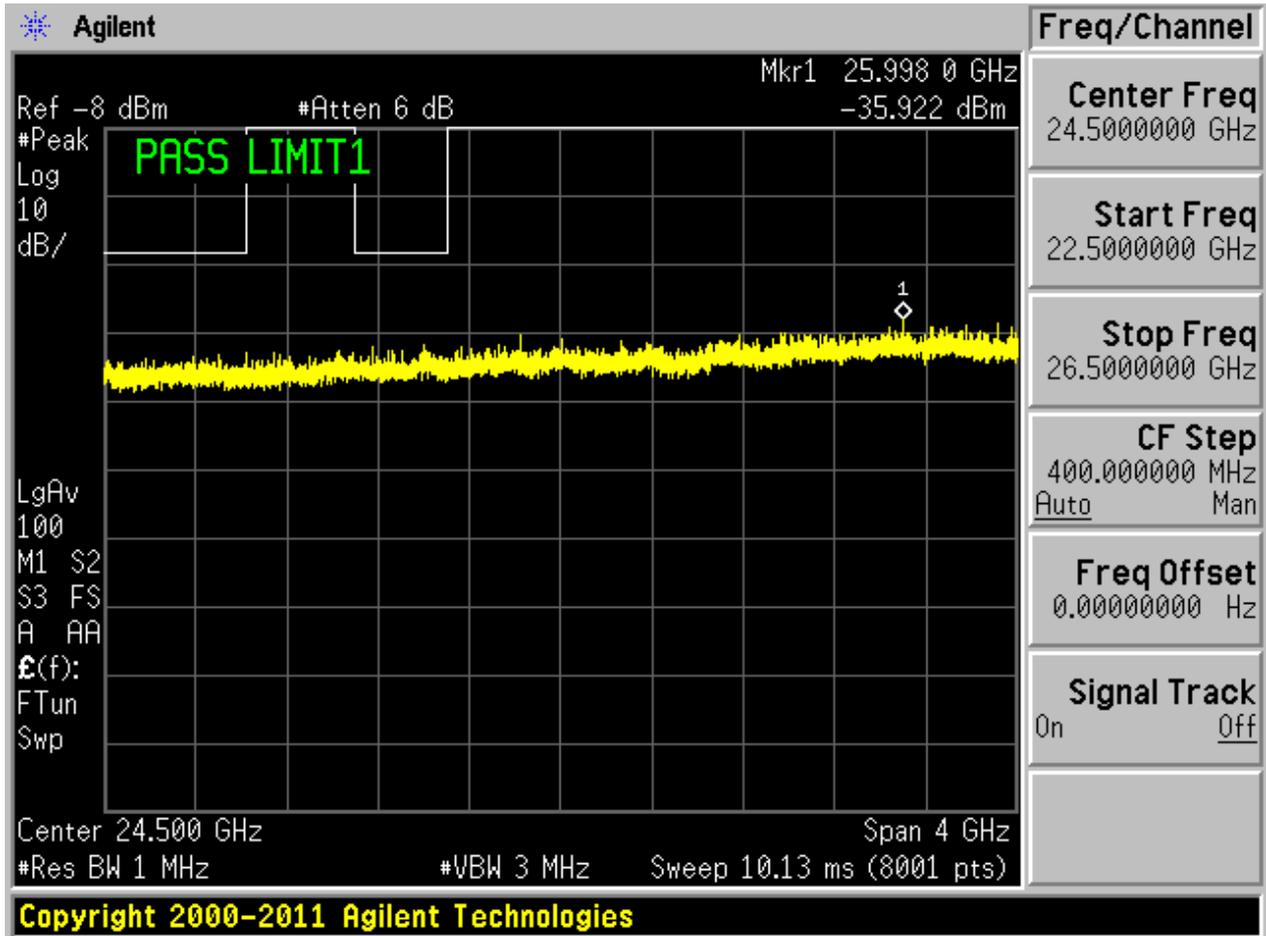










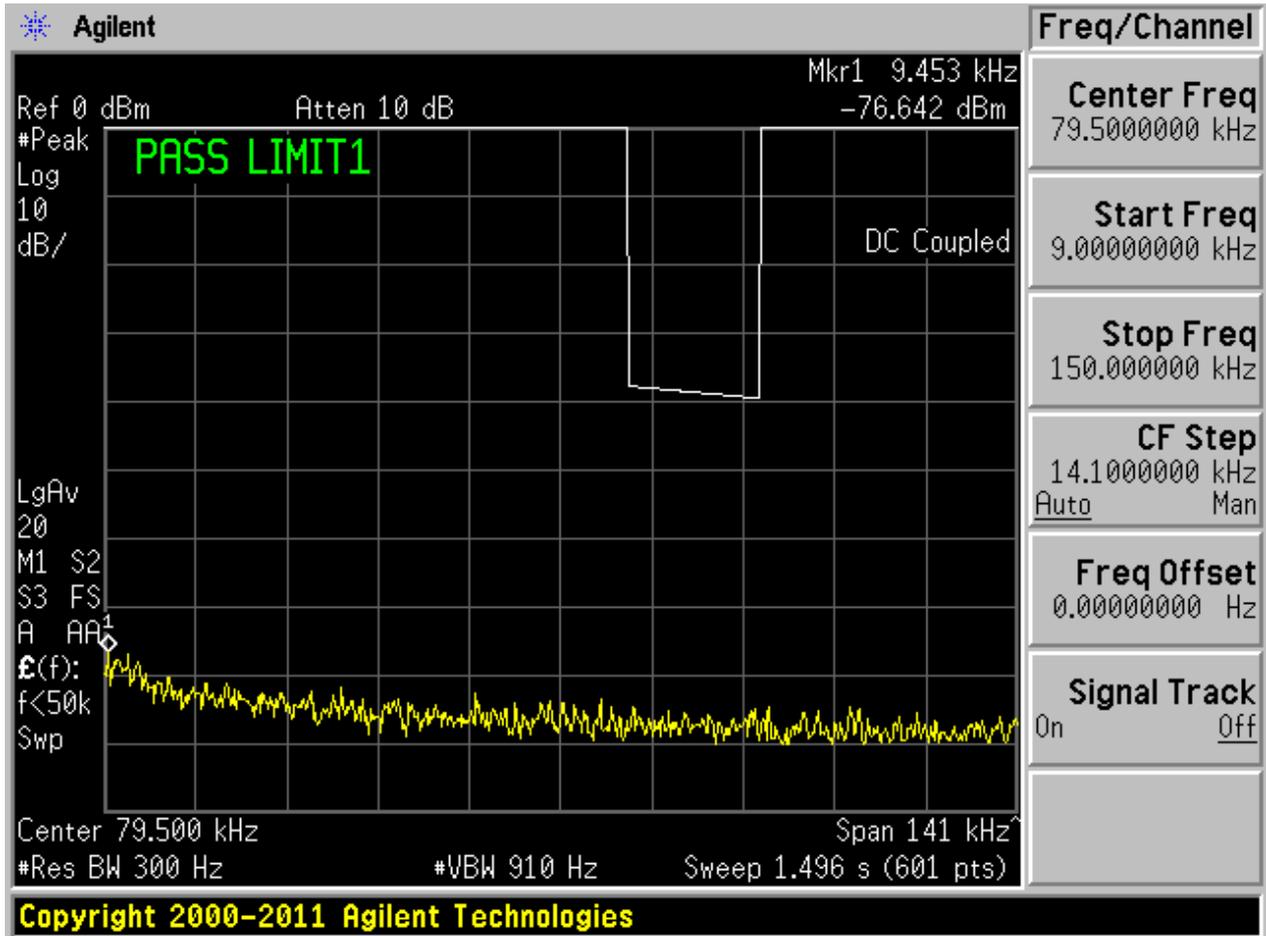


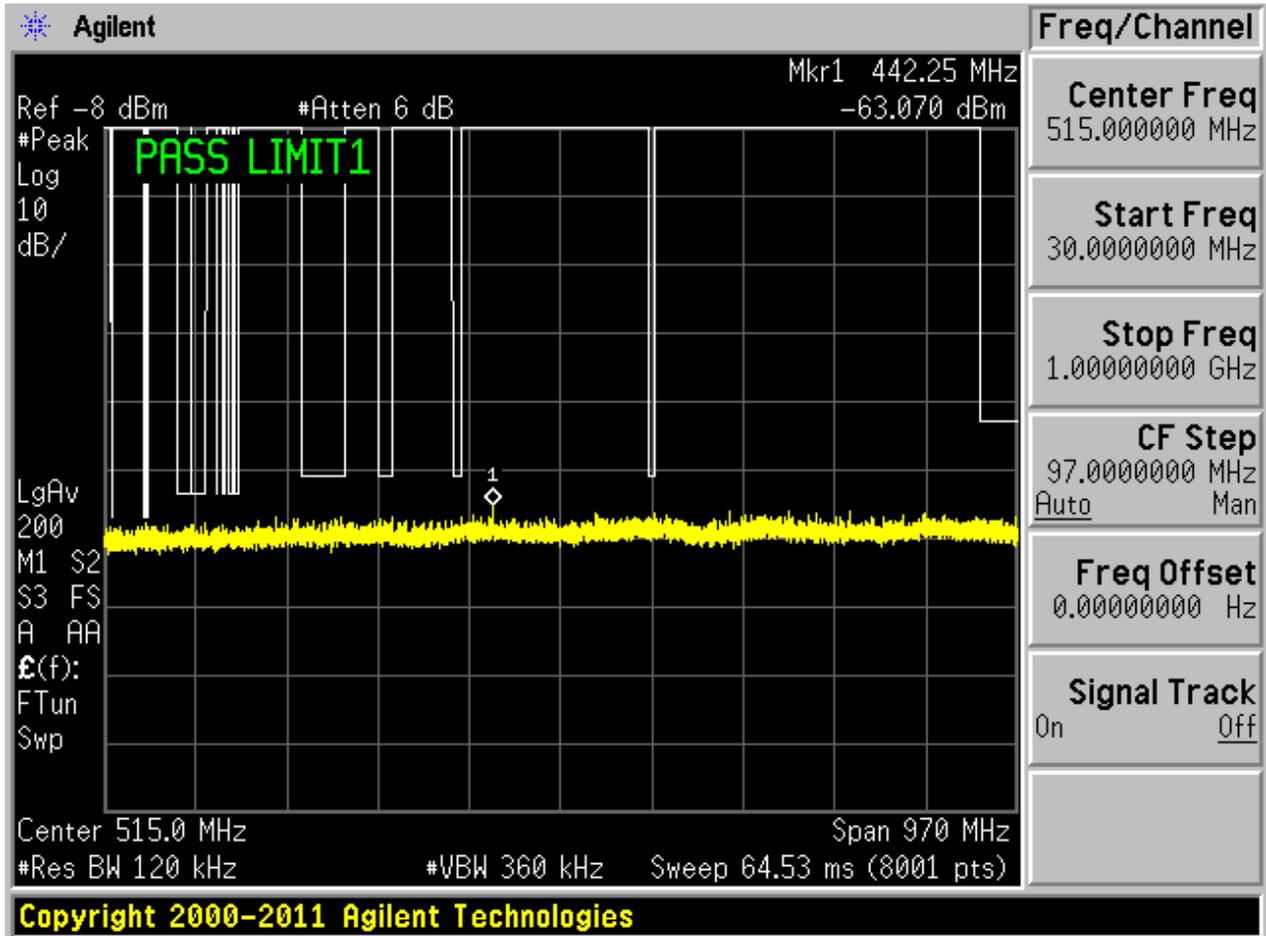
2.28.3 Trace#sum (if needed for final judgment)

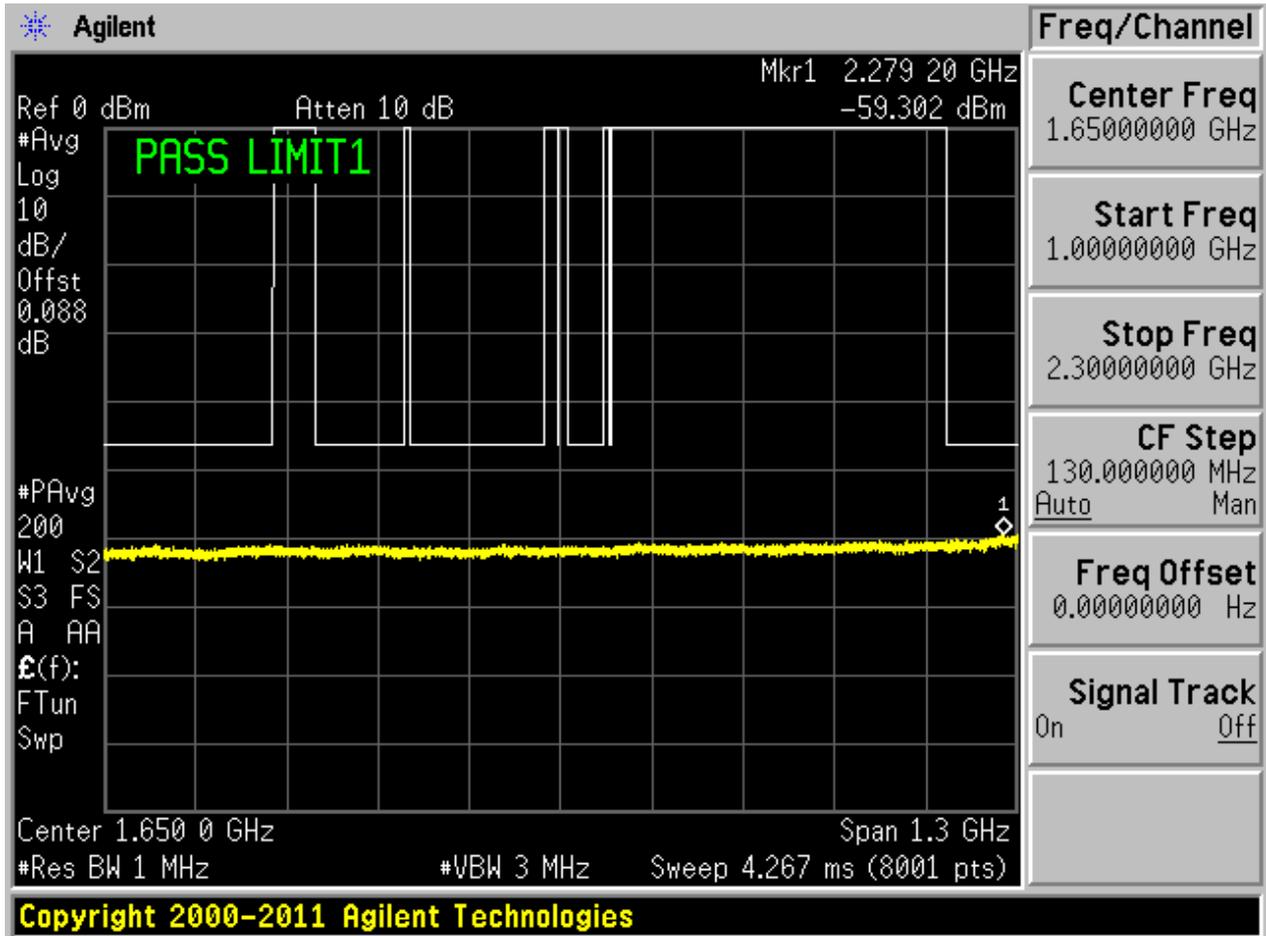
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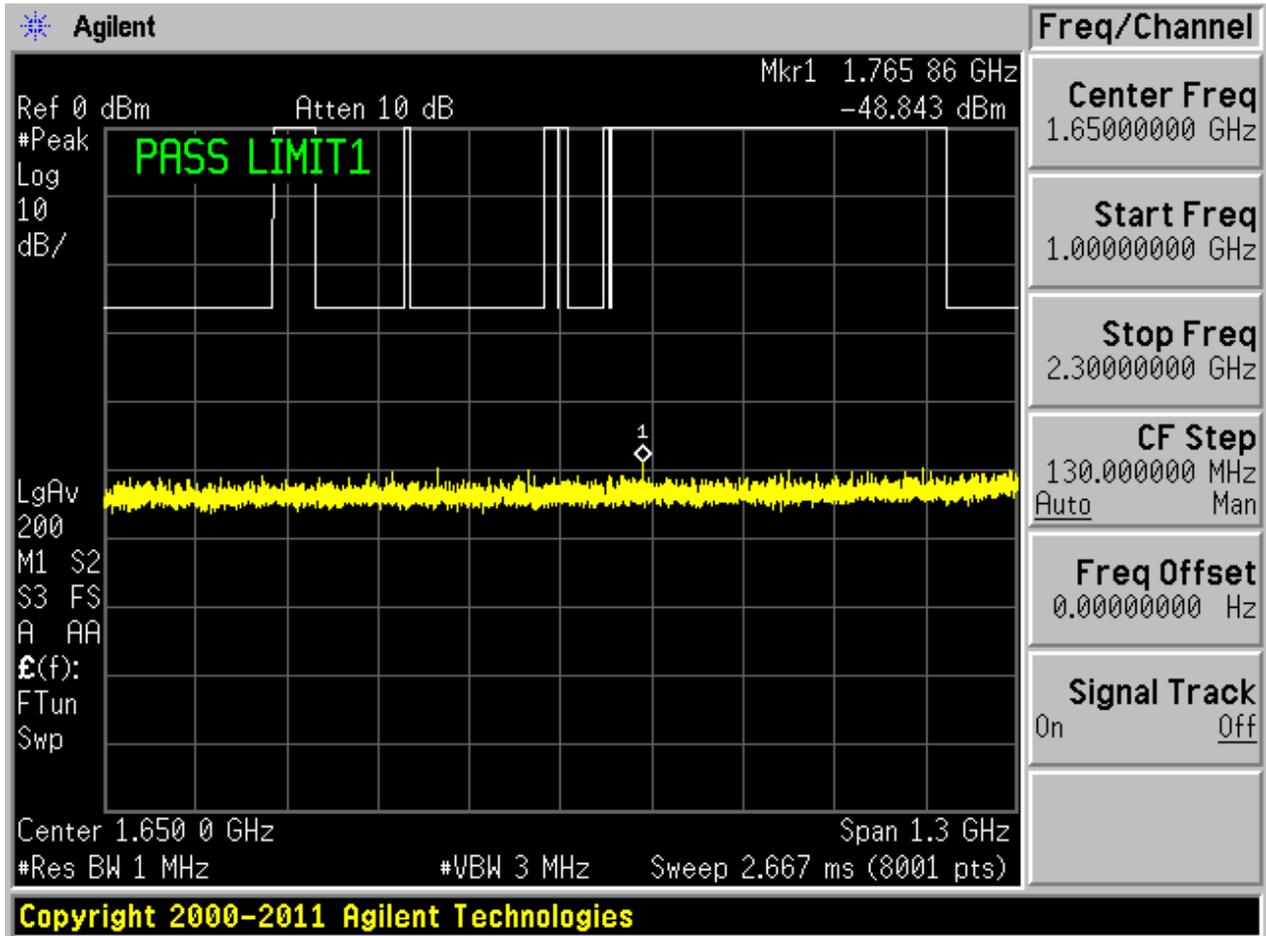
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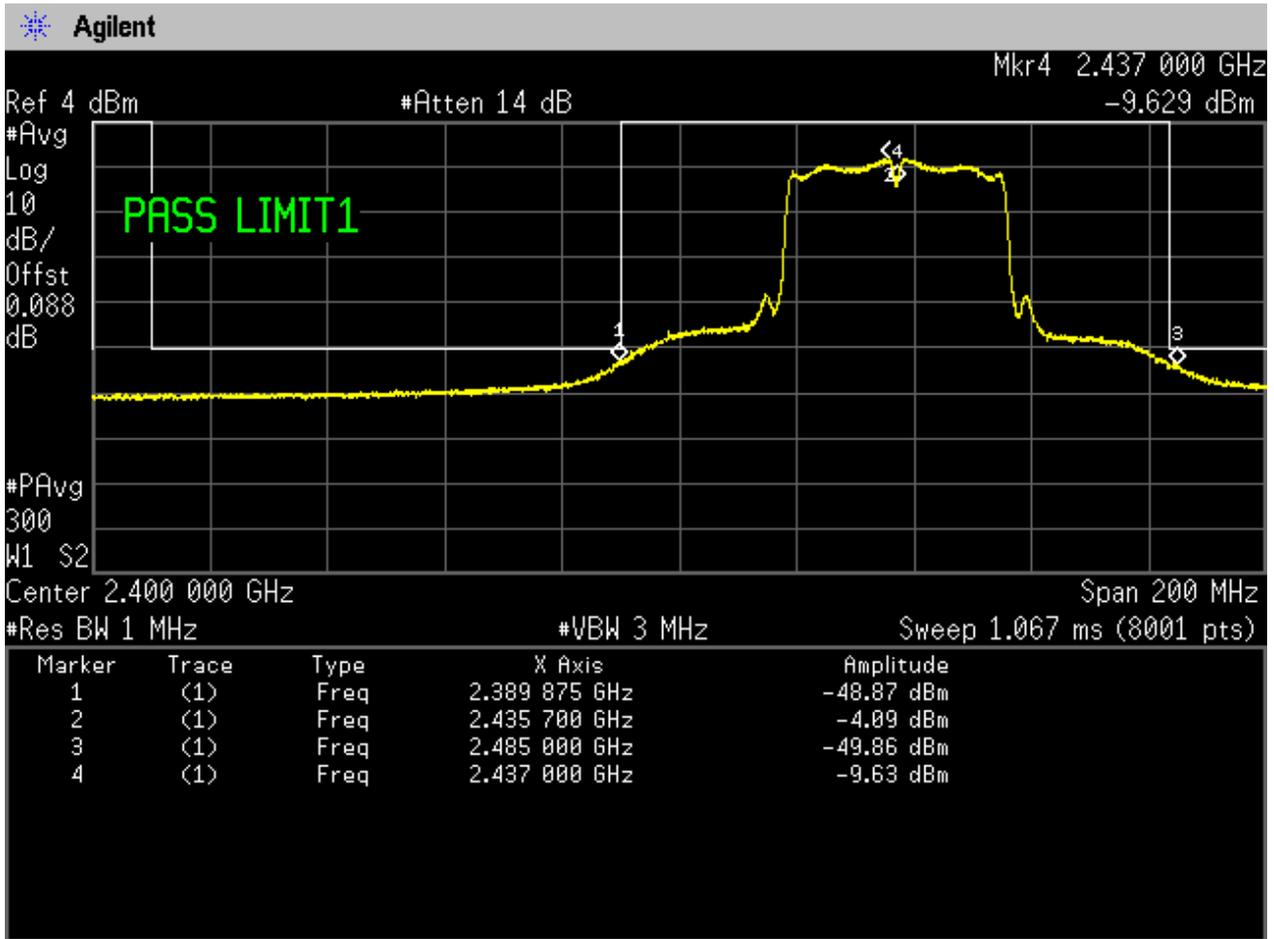
2.29.1 Ant 1 (Trace#1)

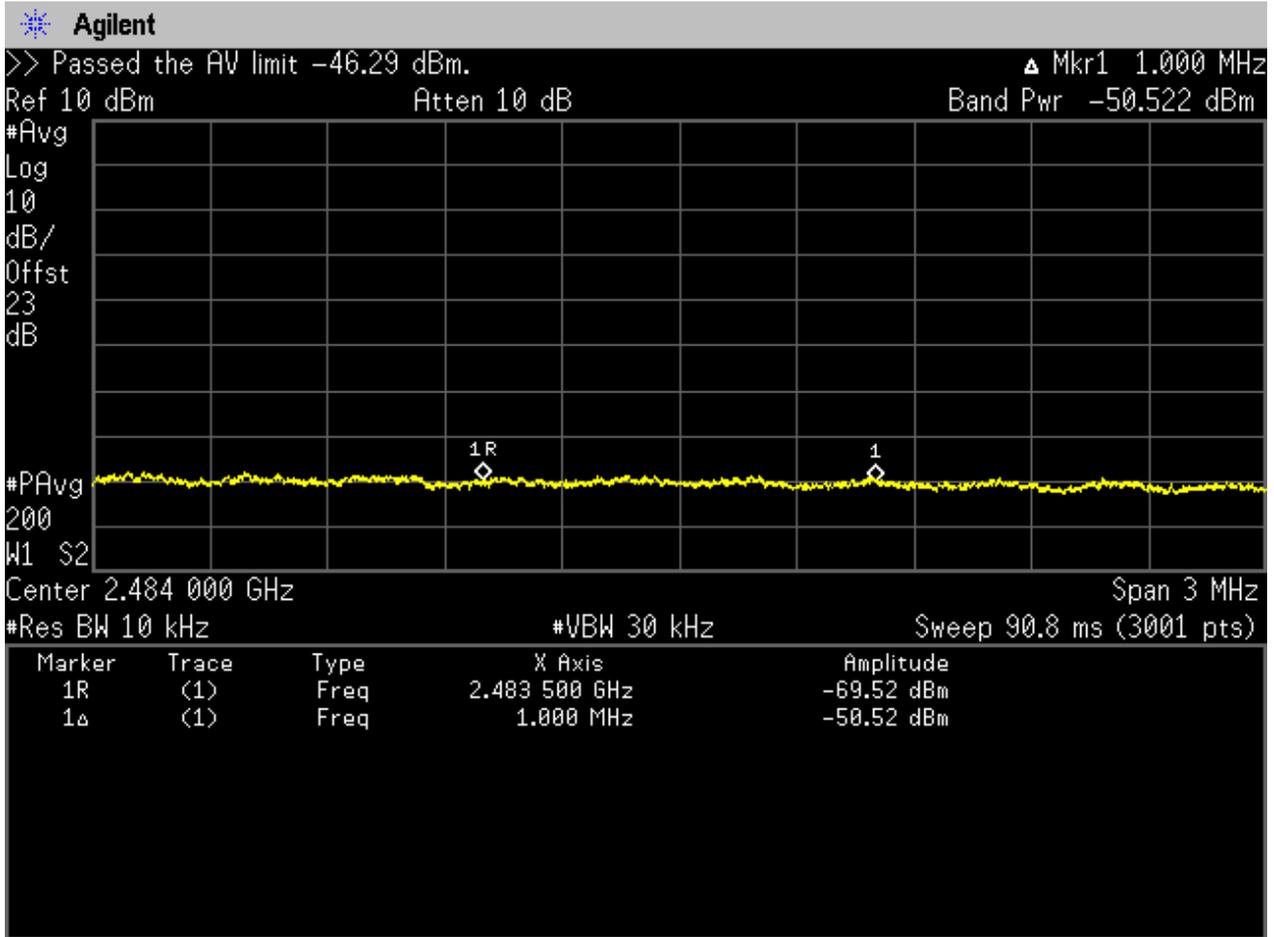


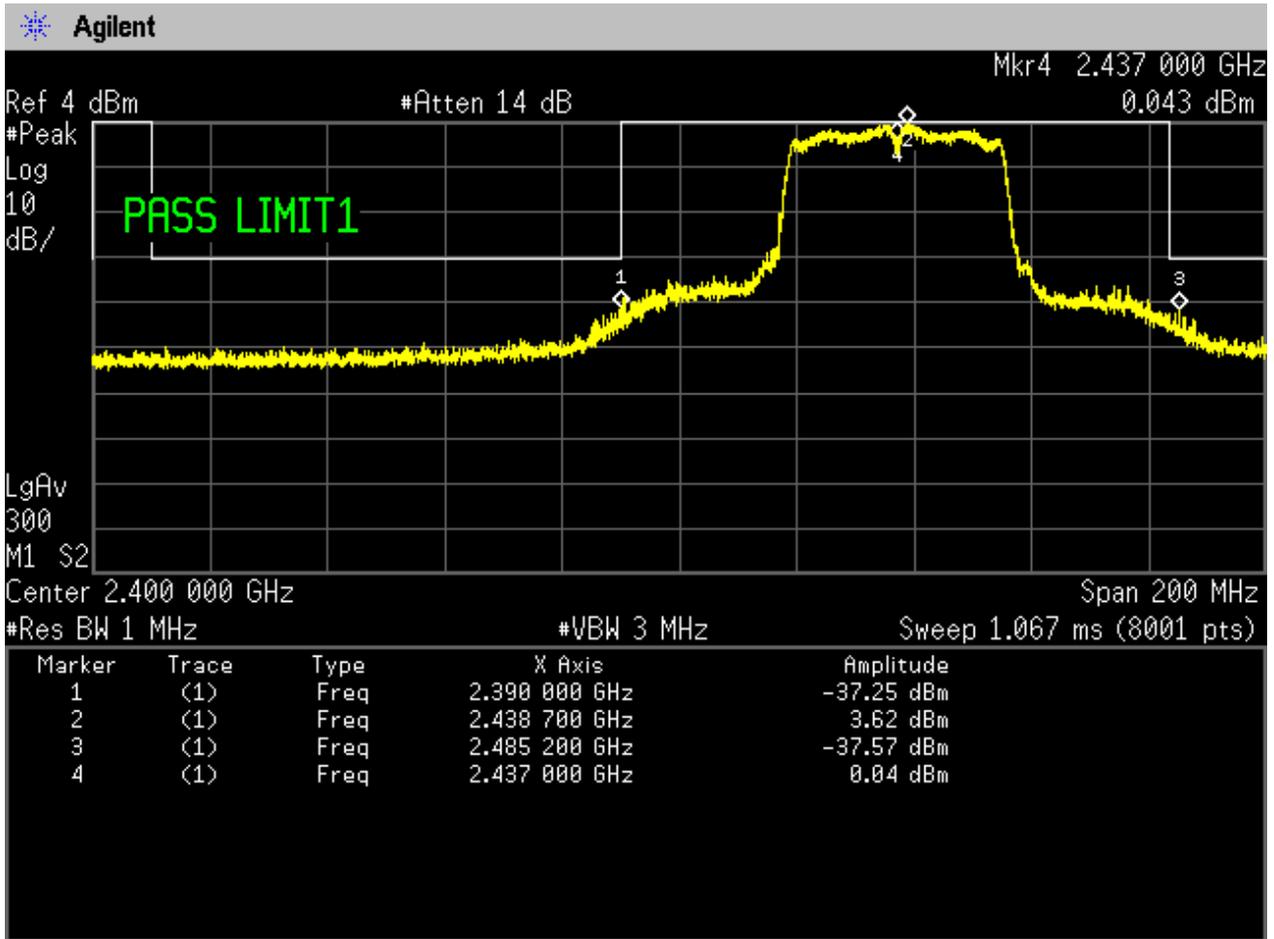


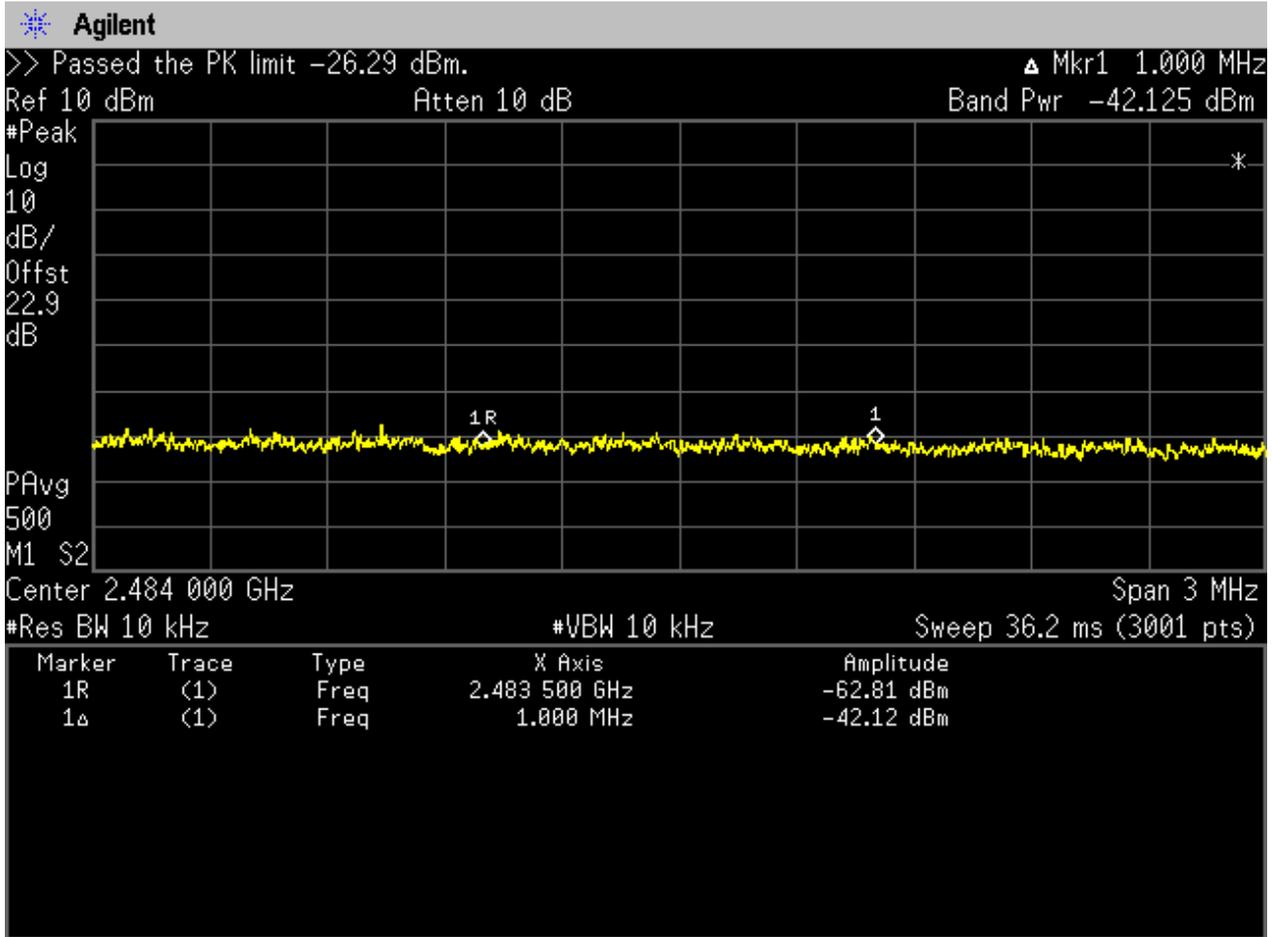


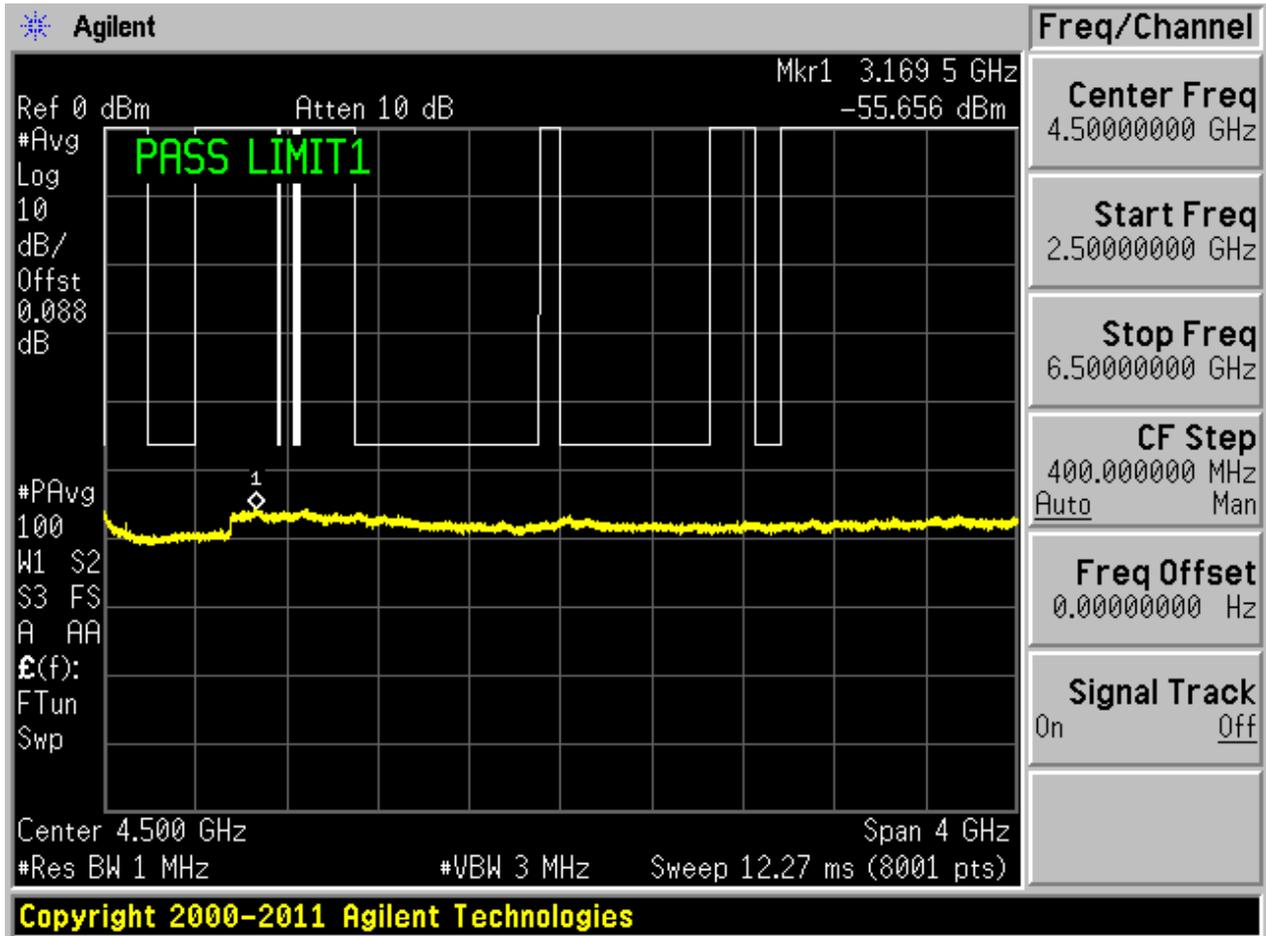


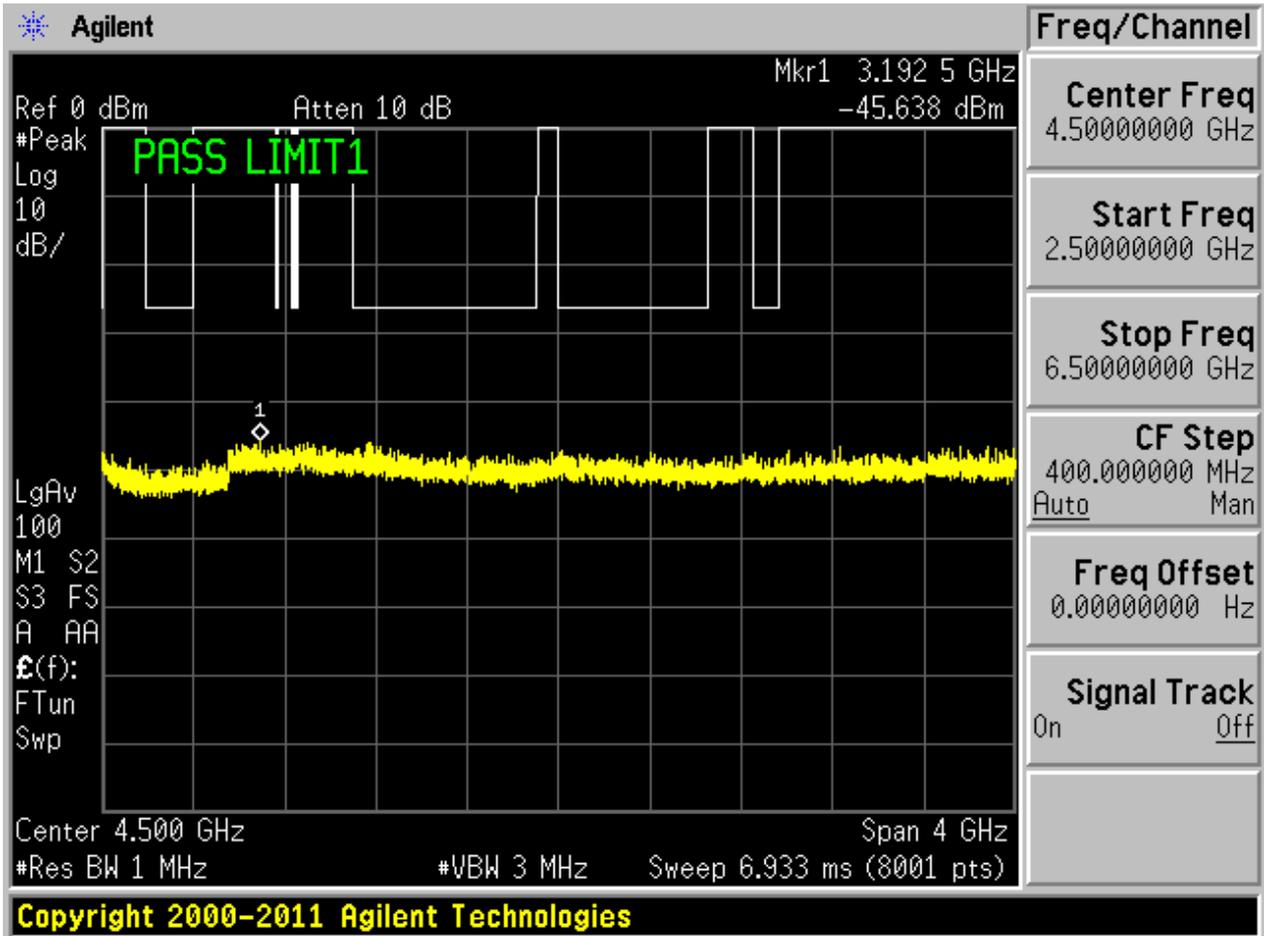


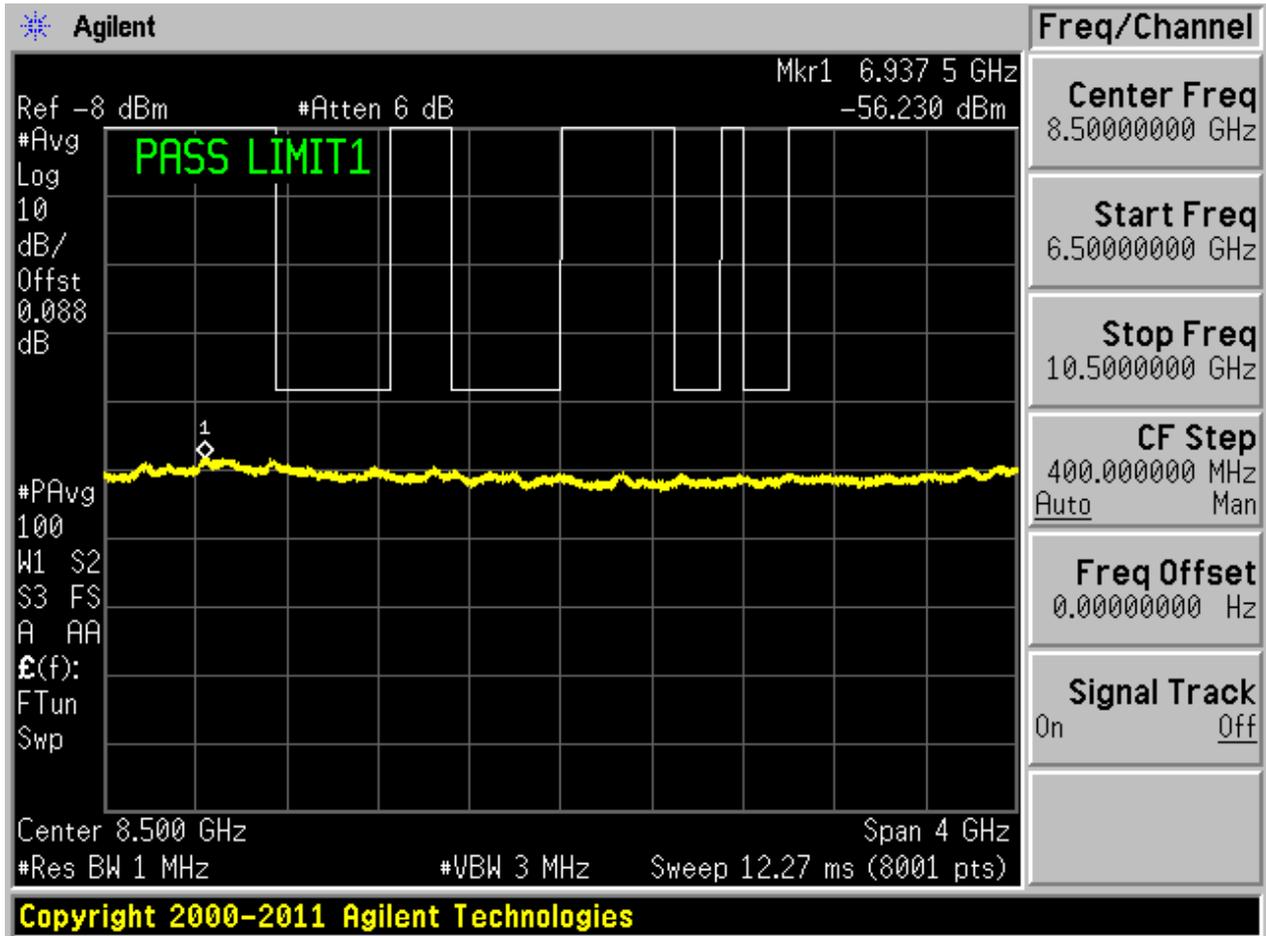


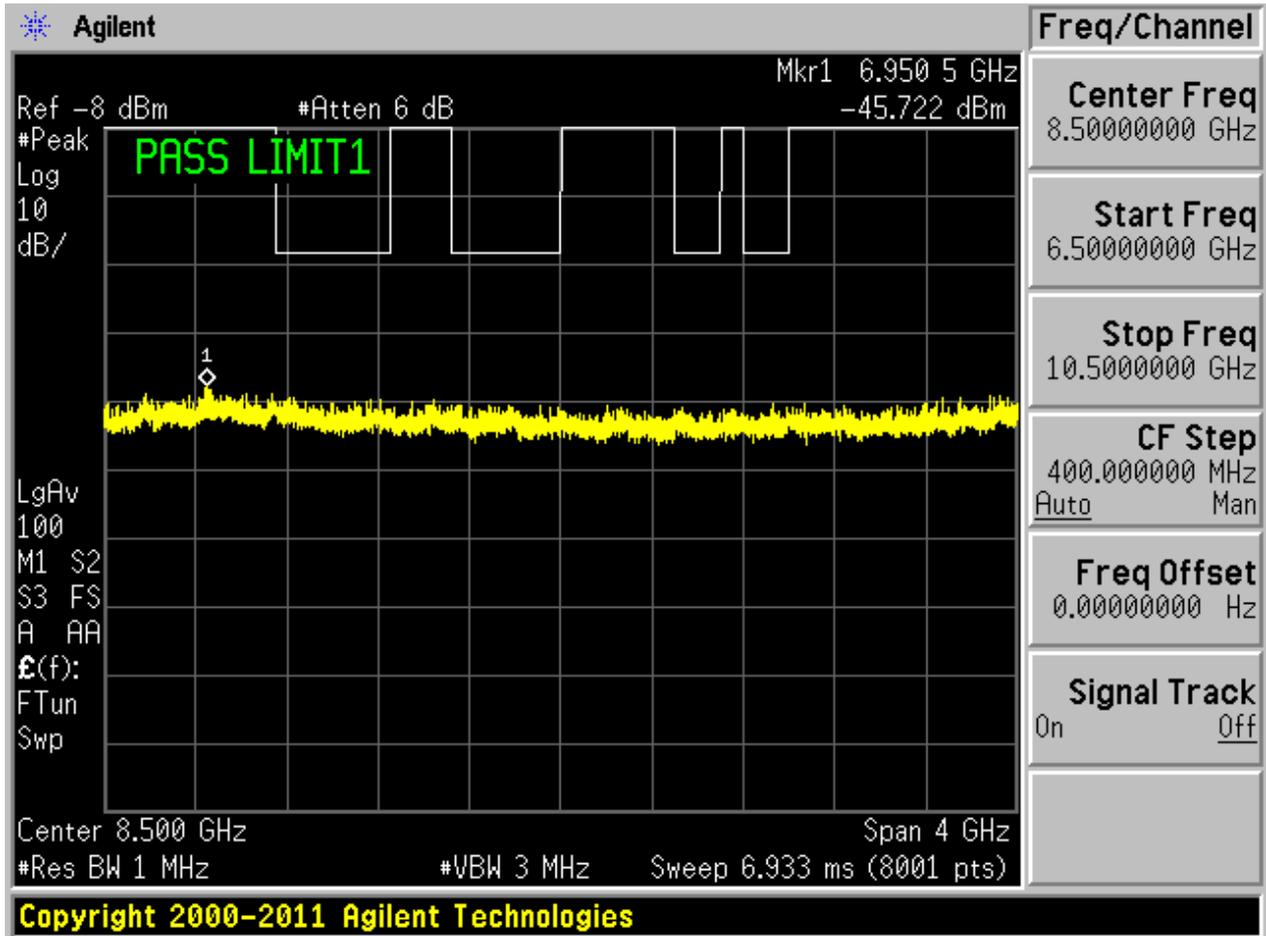


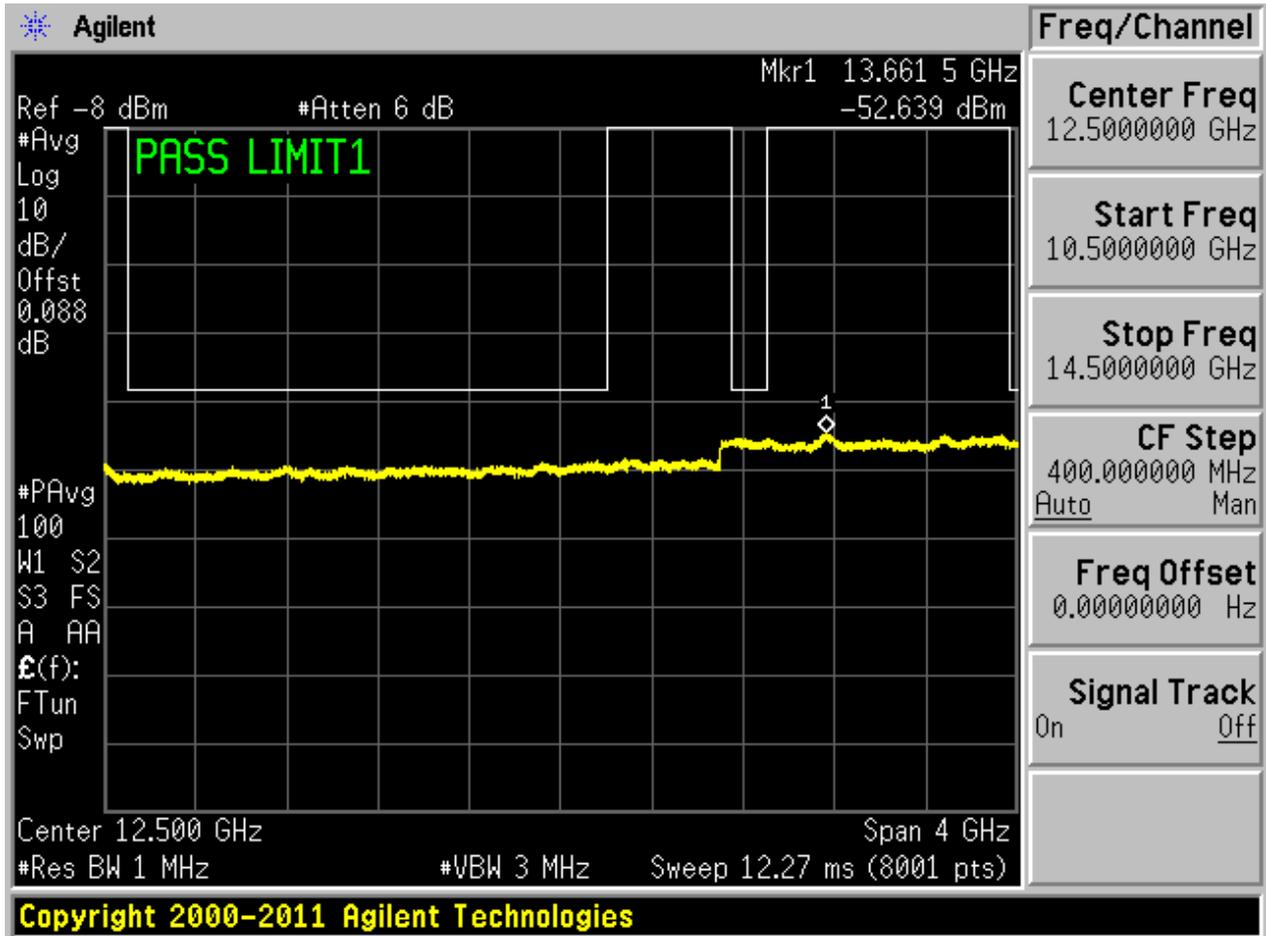


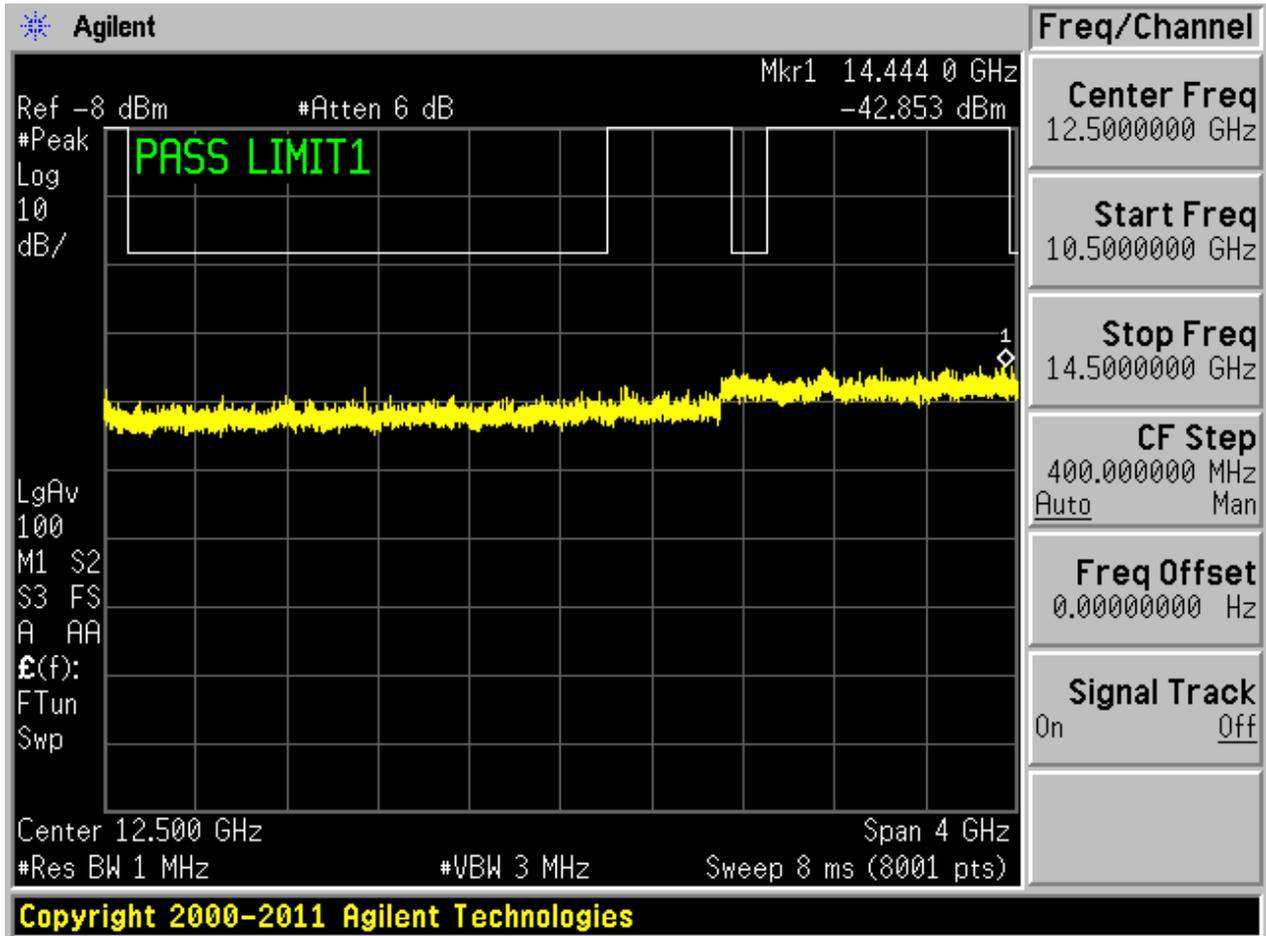


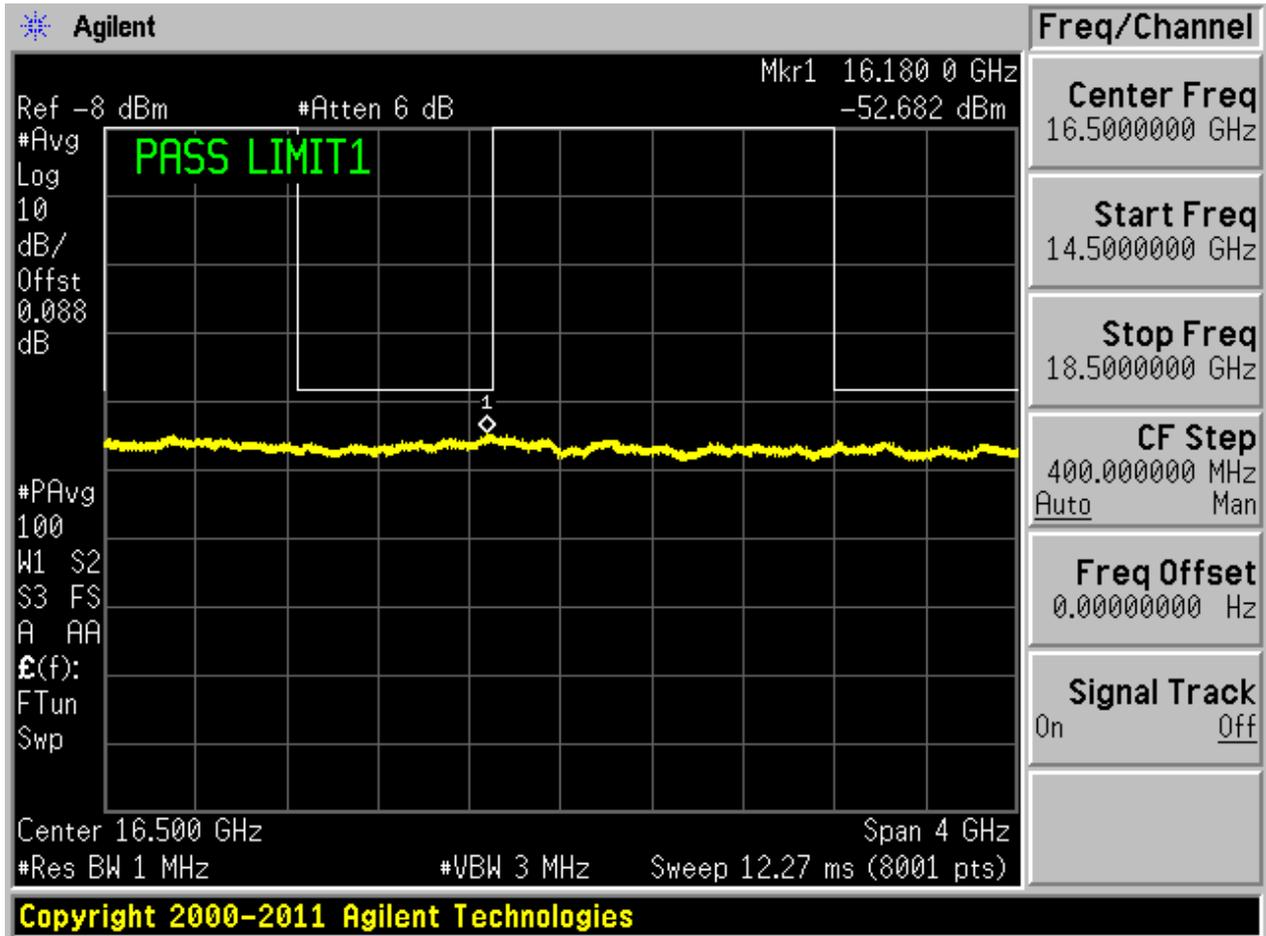


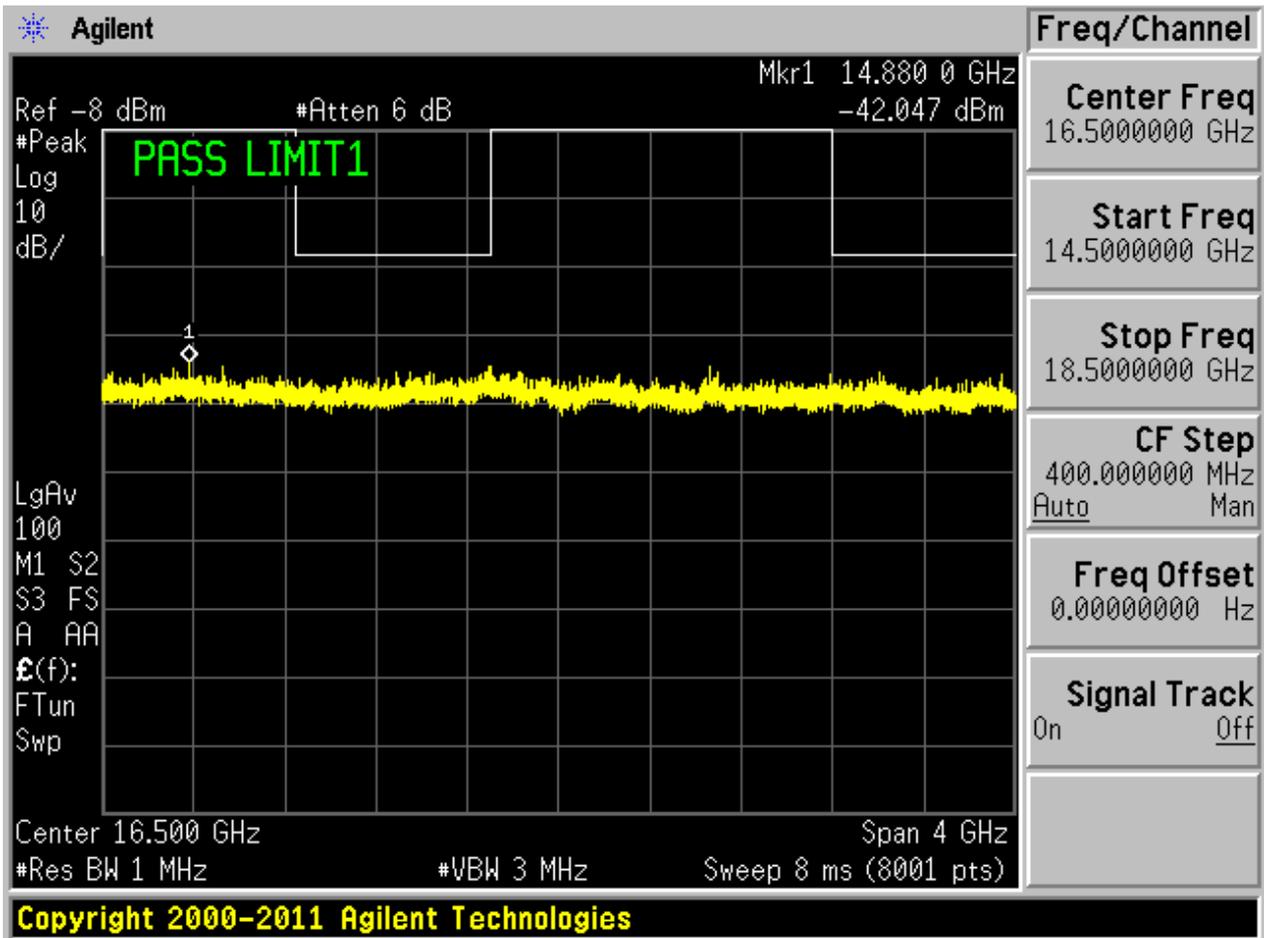


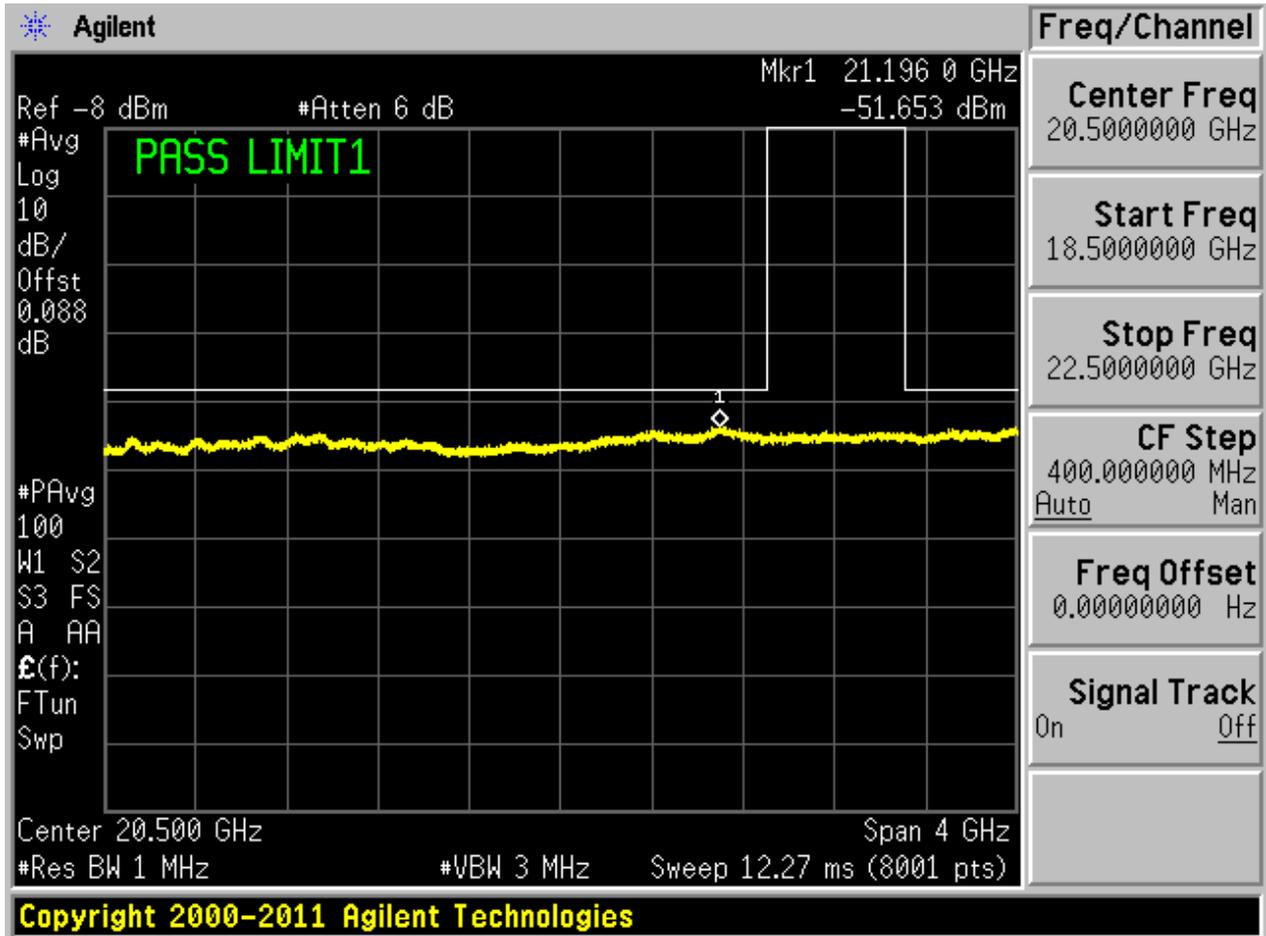


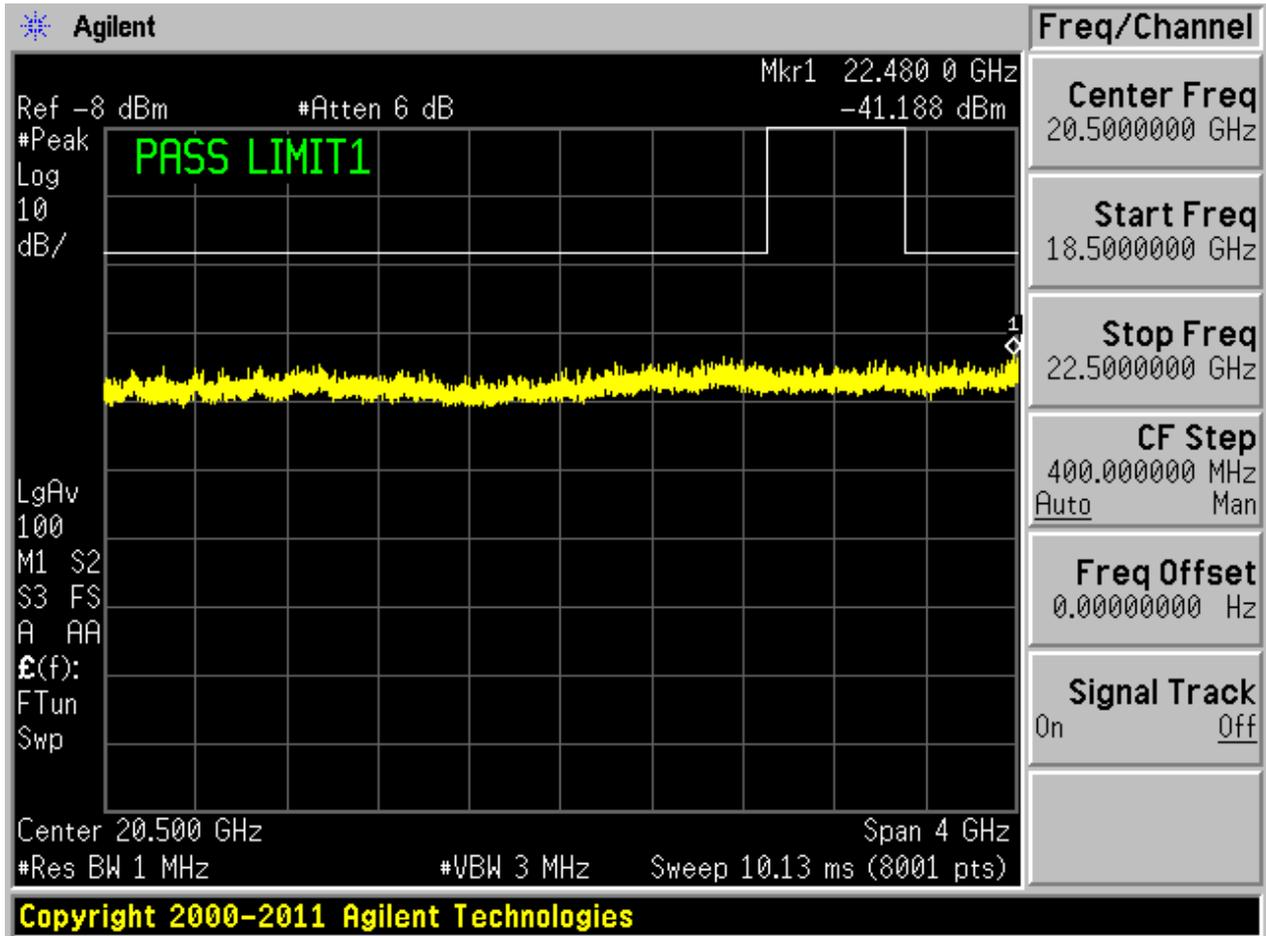


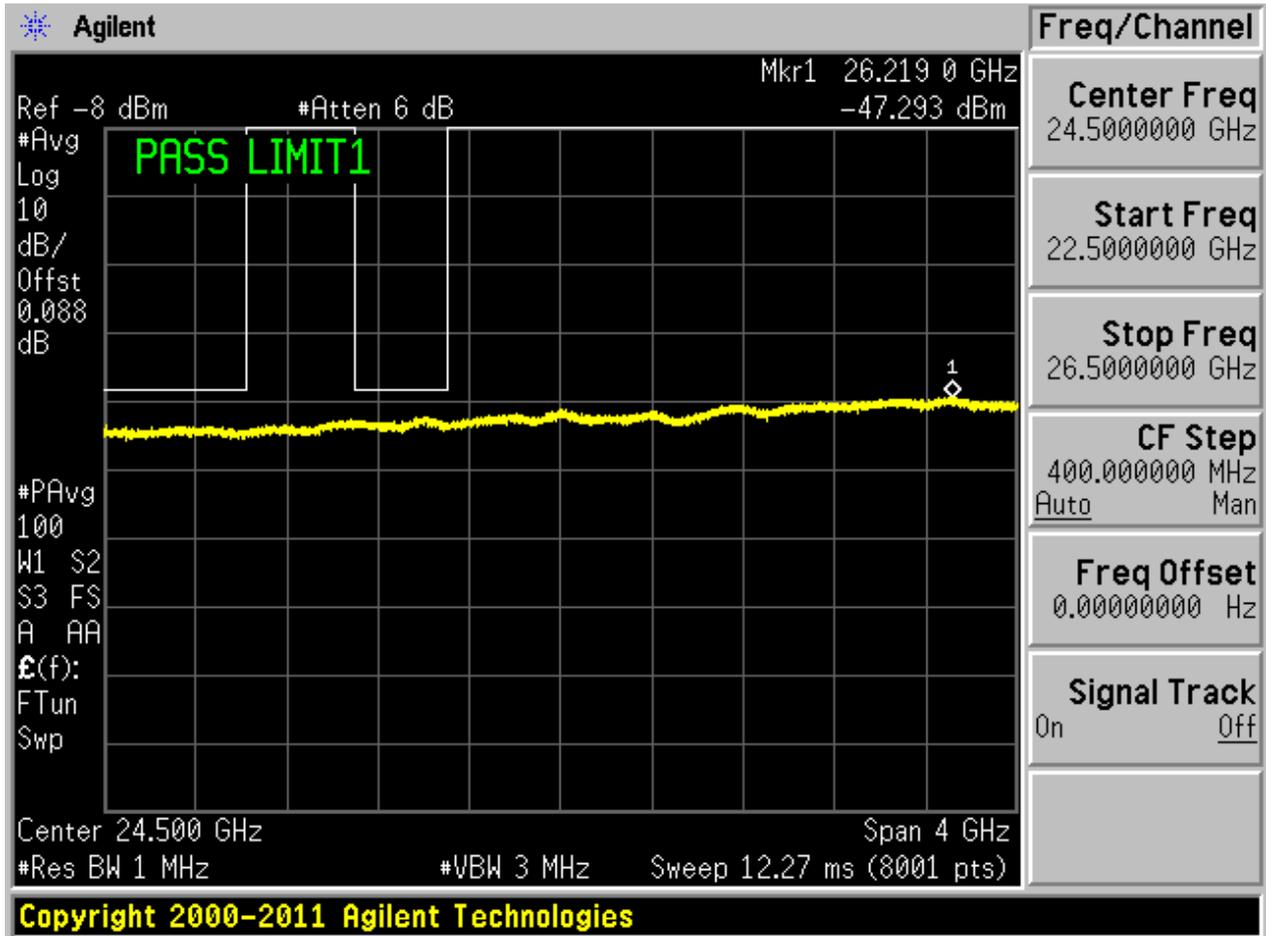


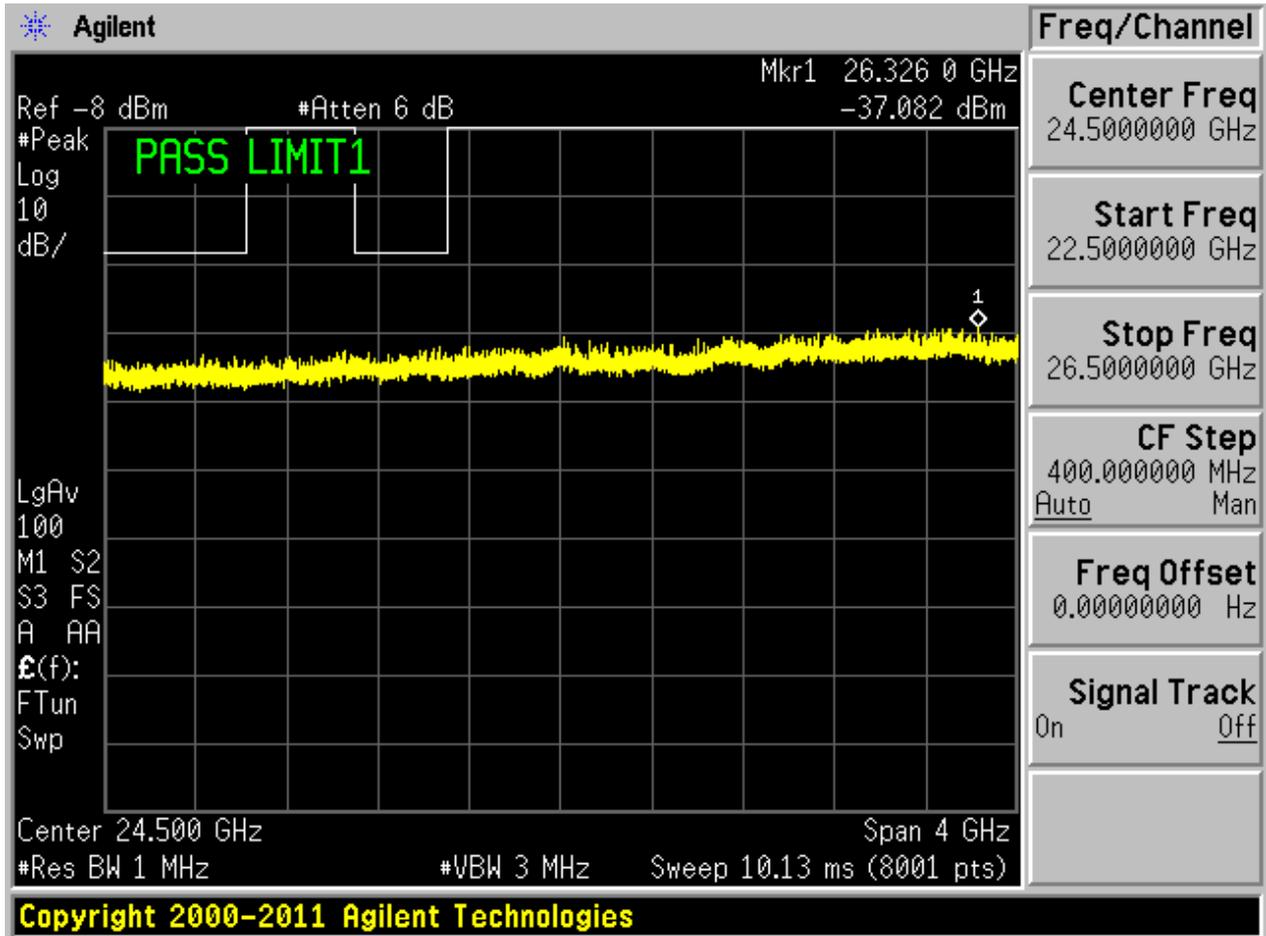




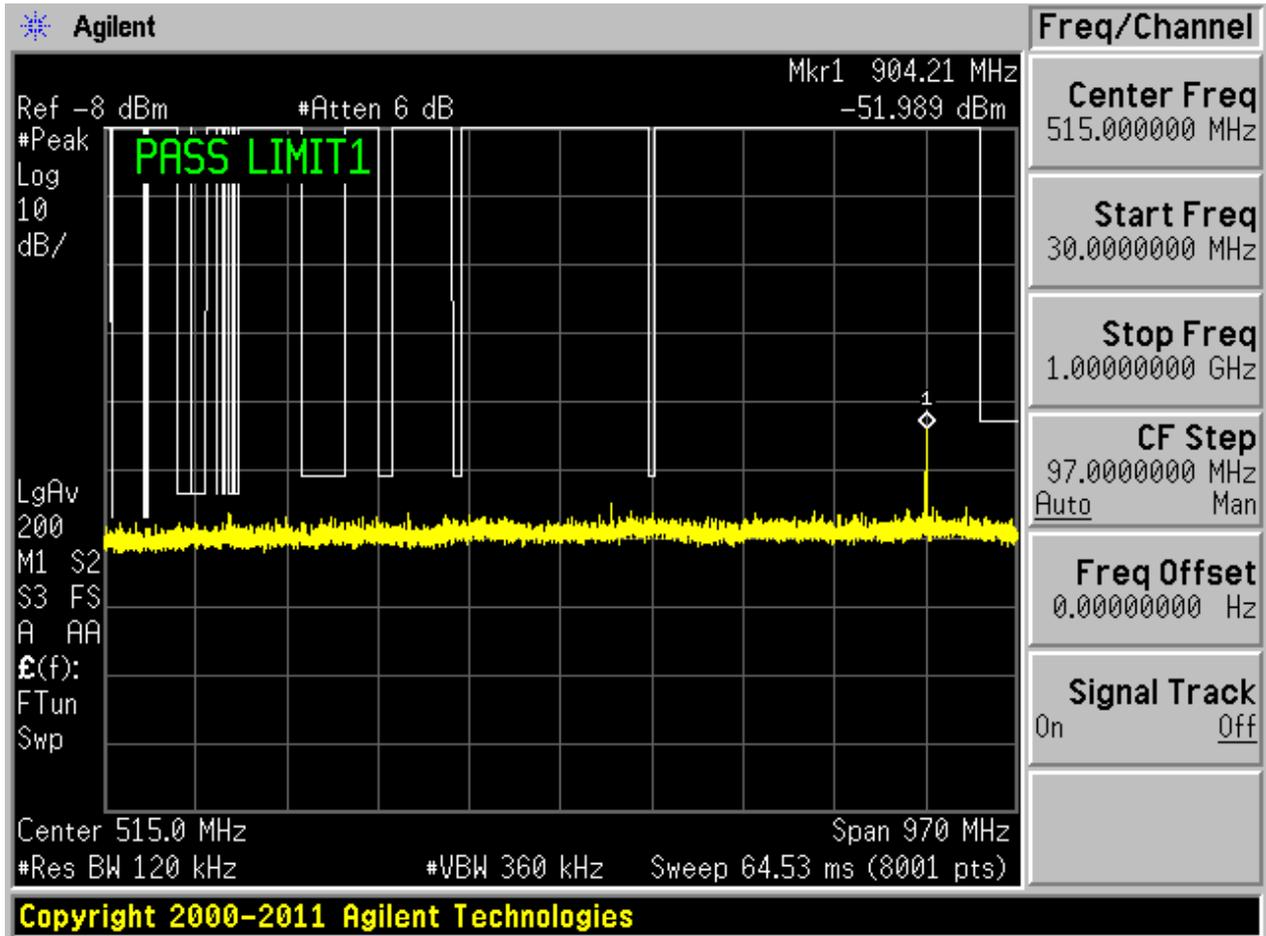




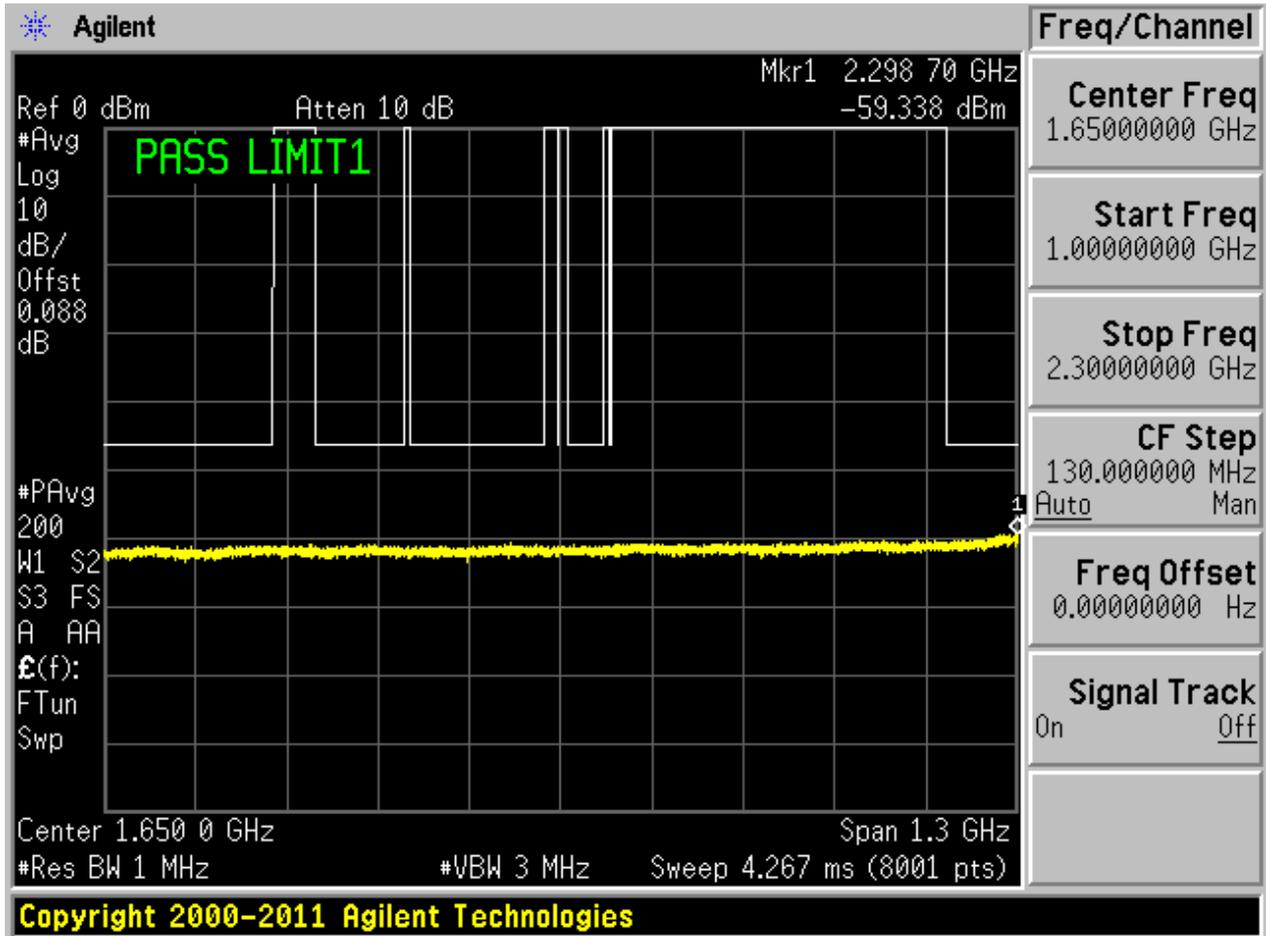


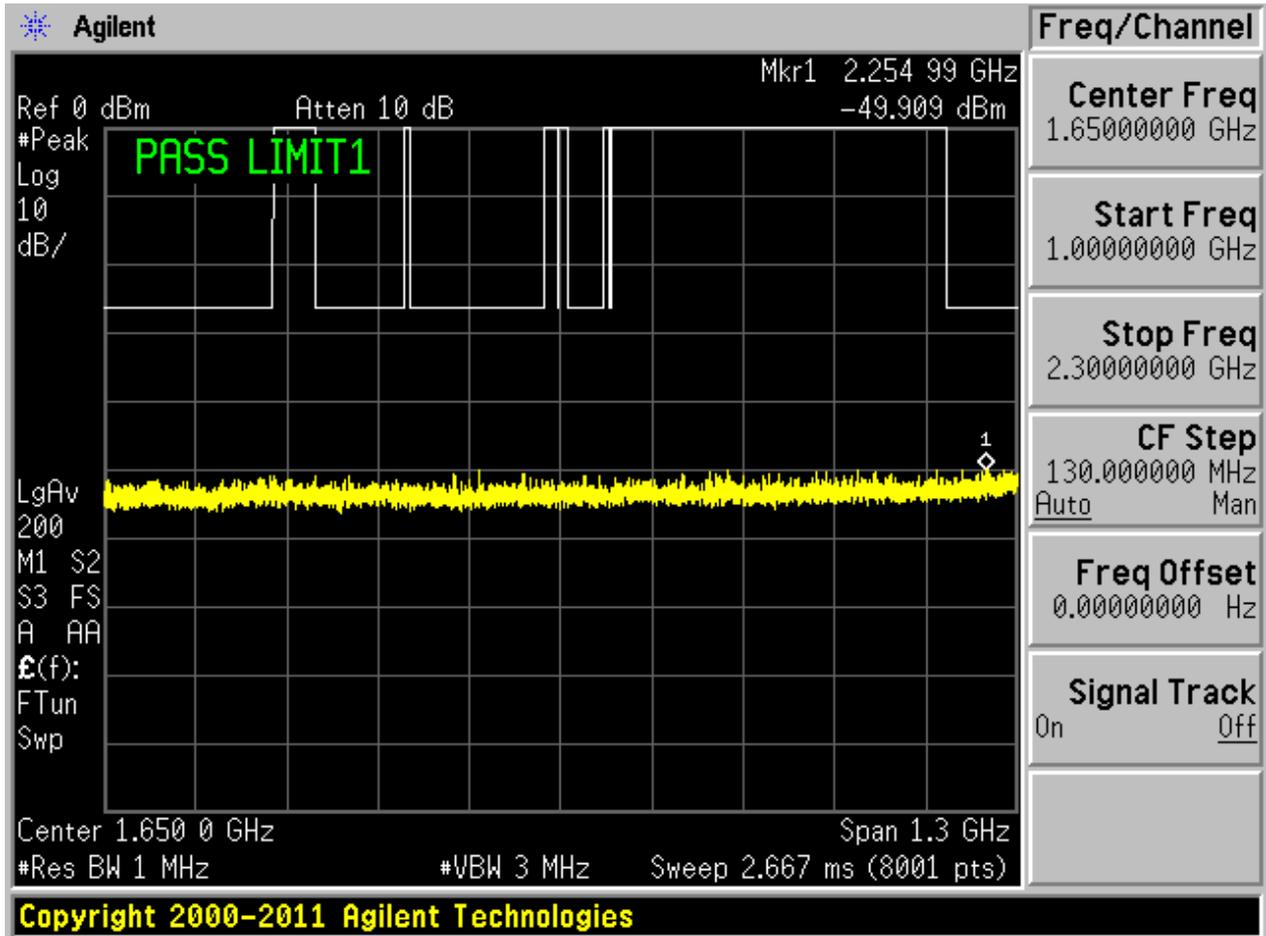


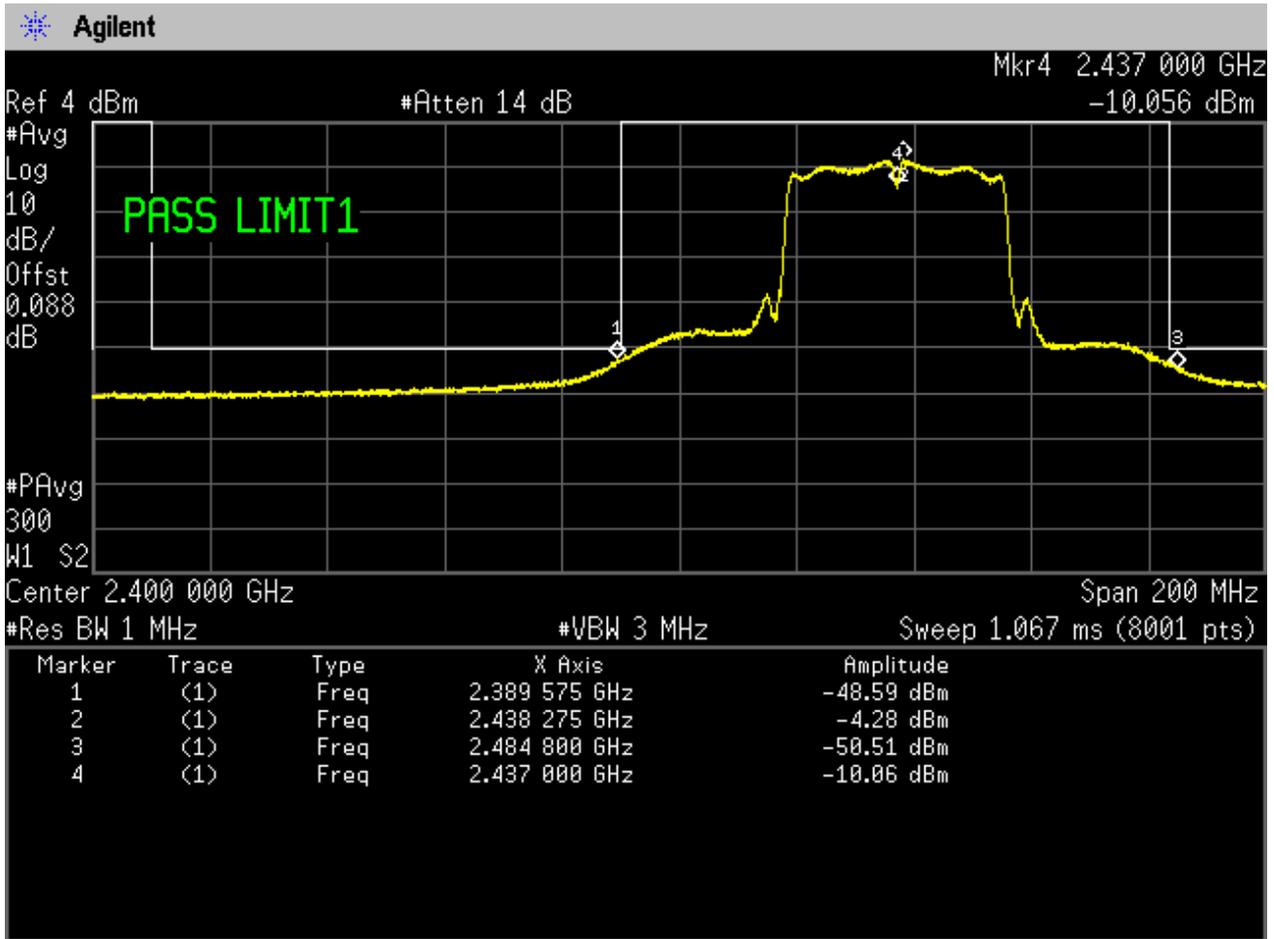
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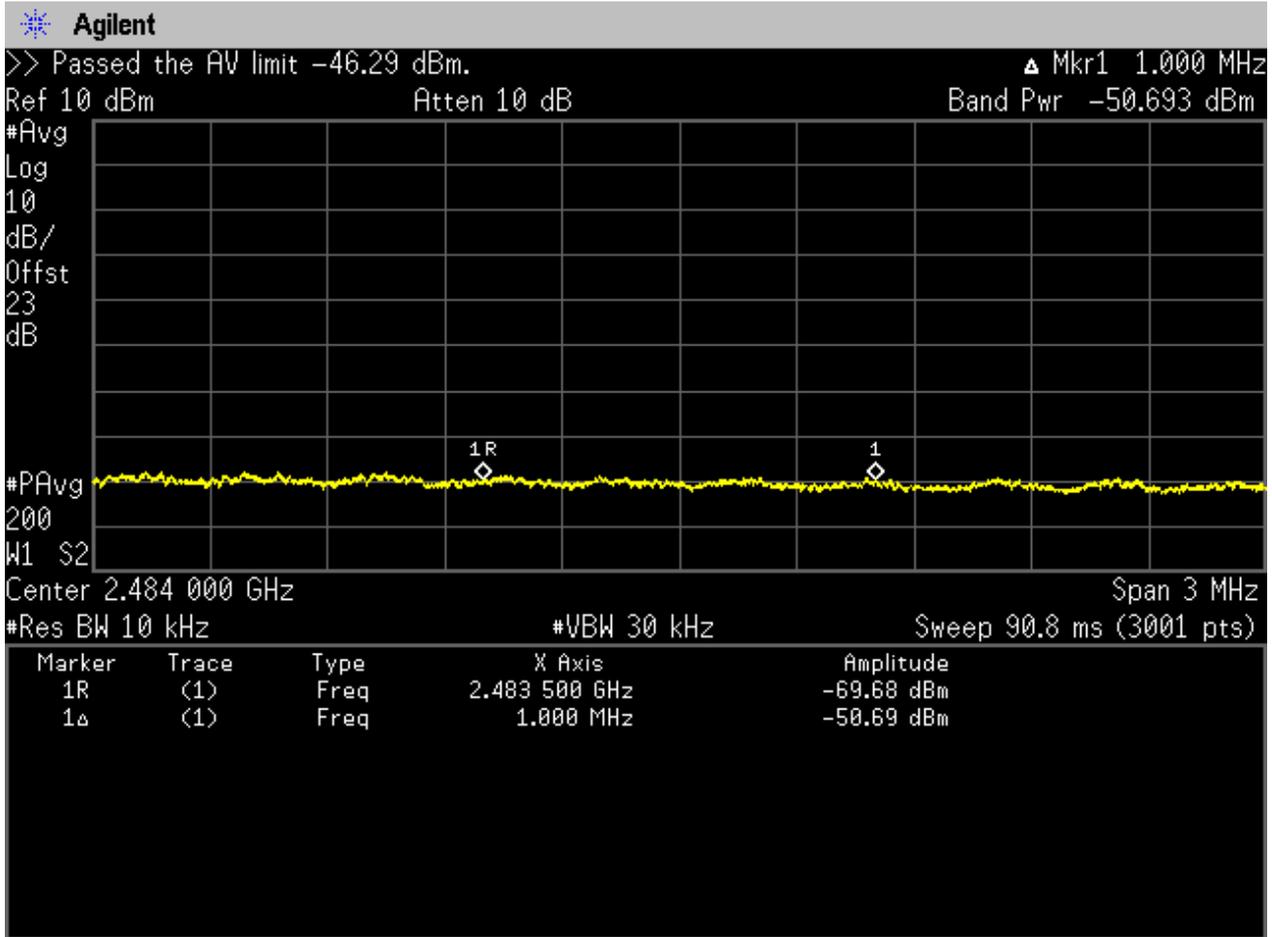


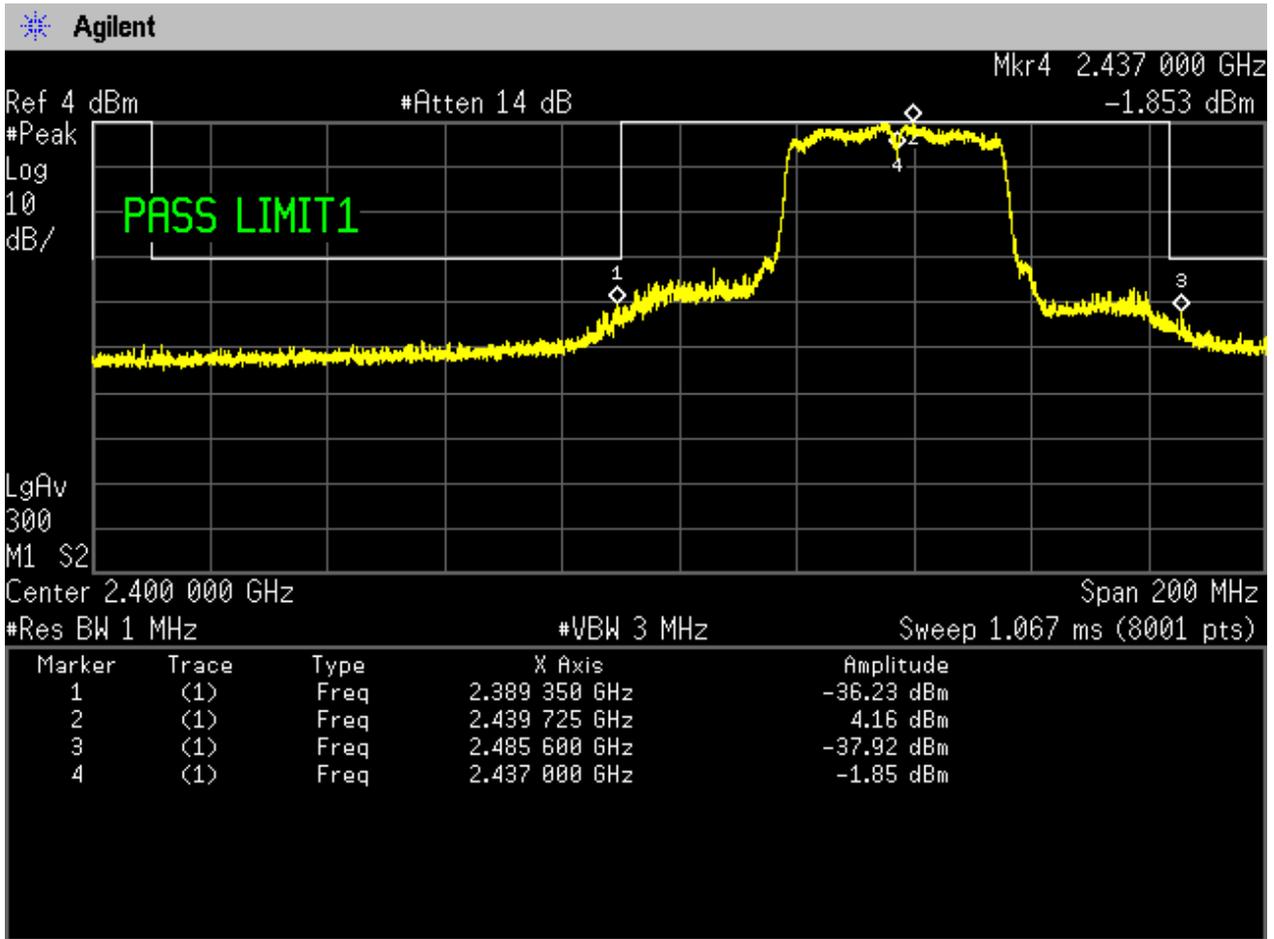
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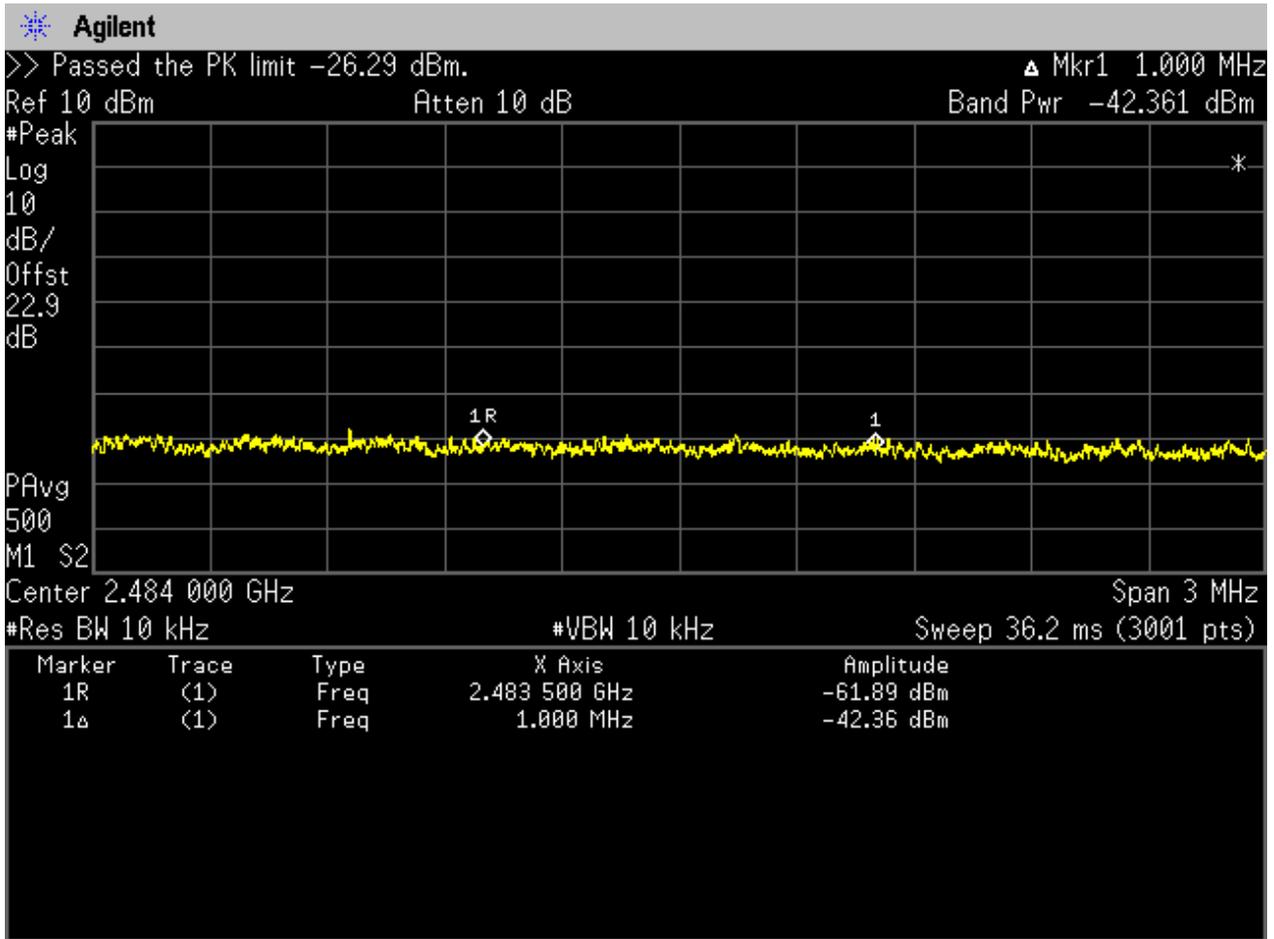


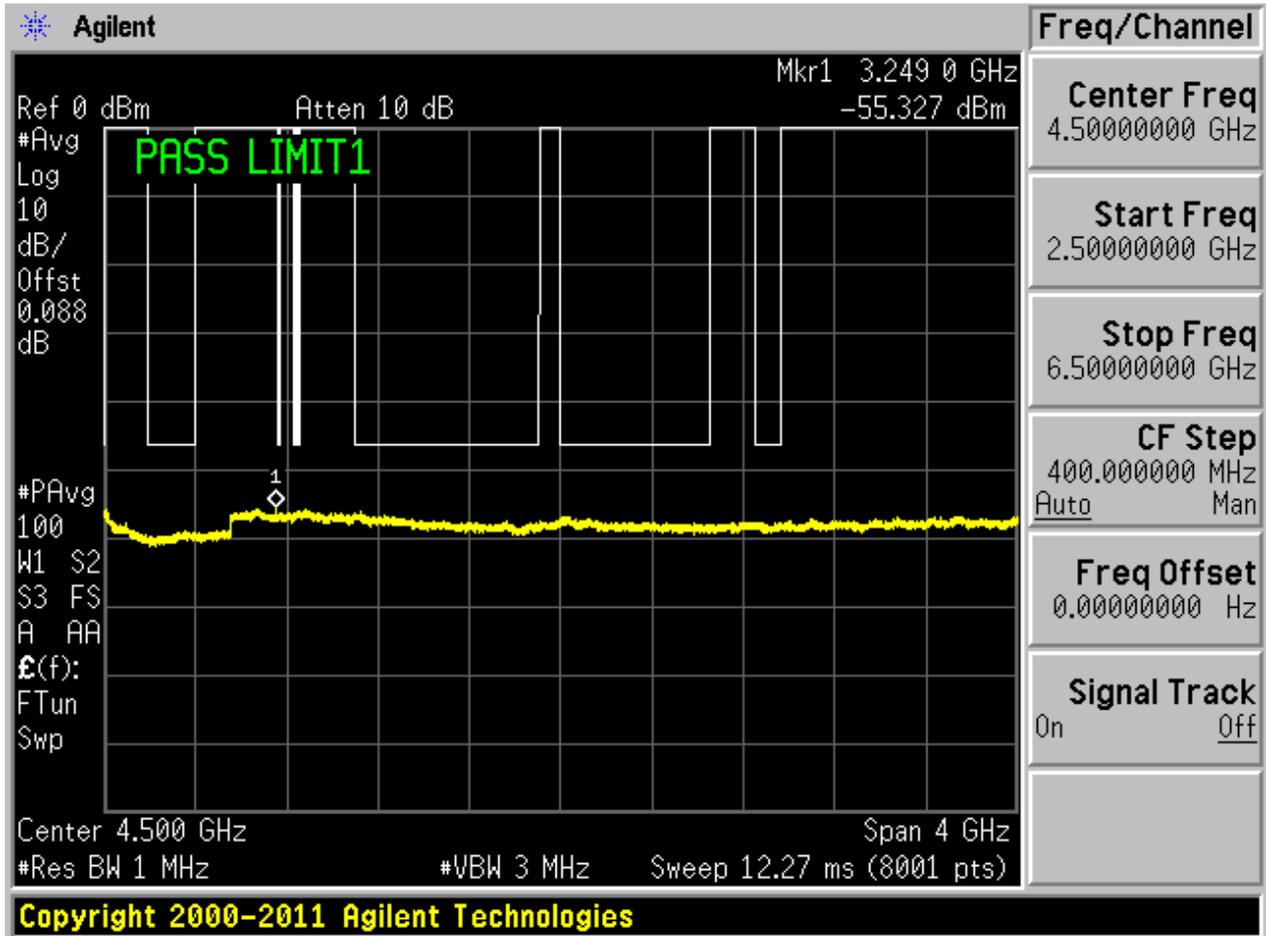


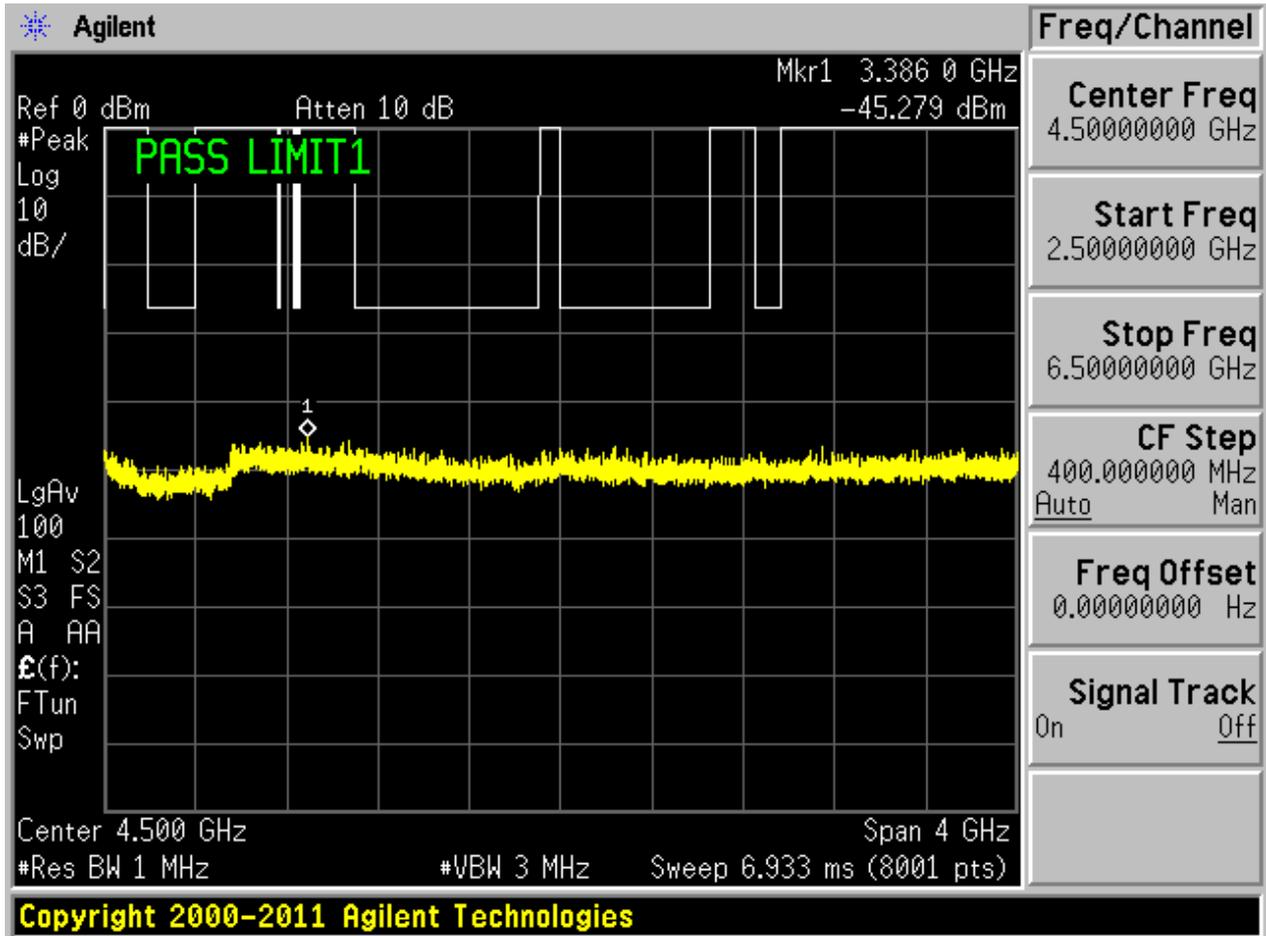


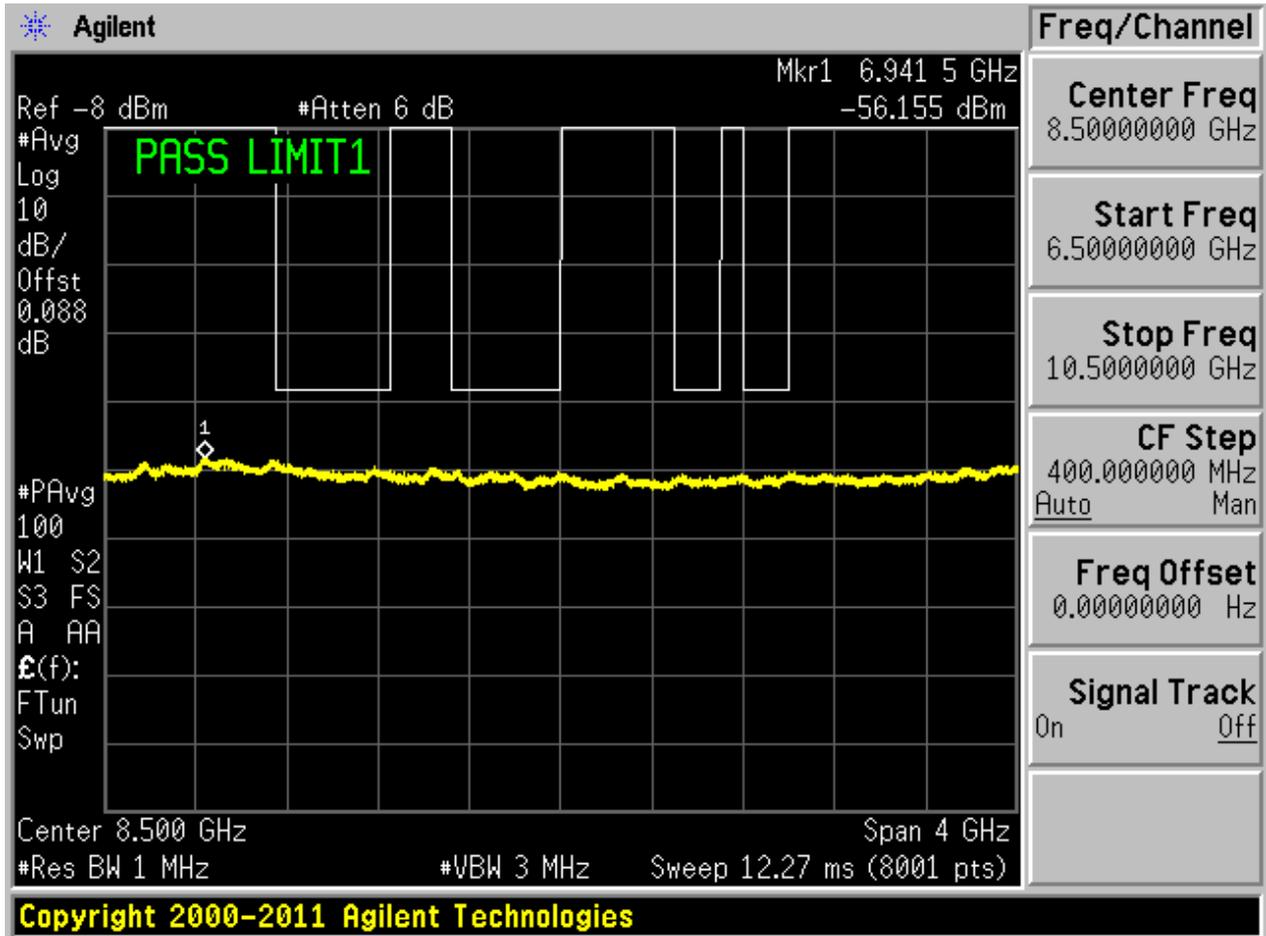


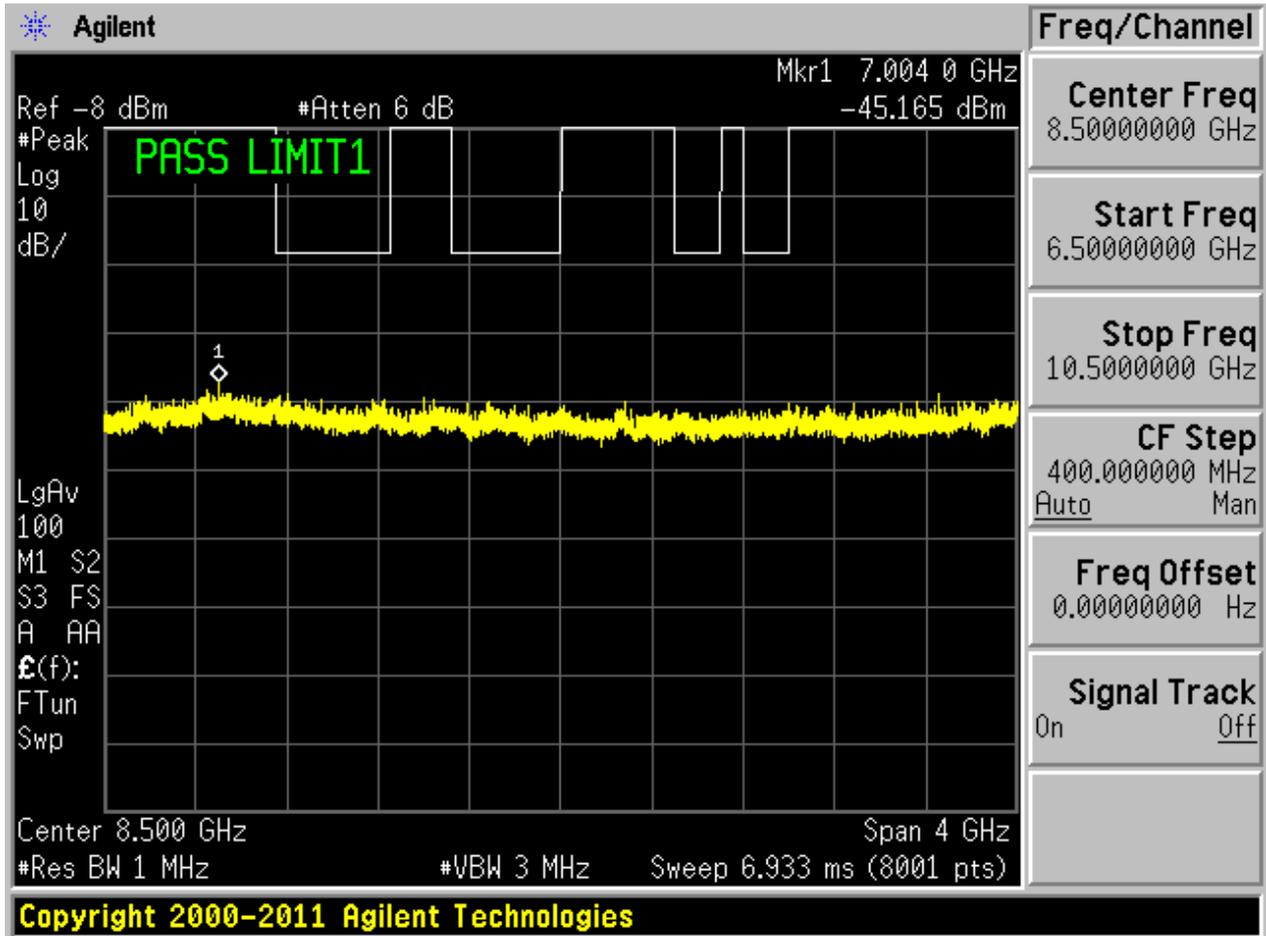




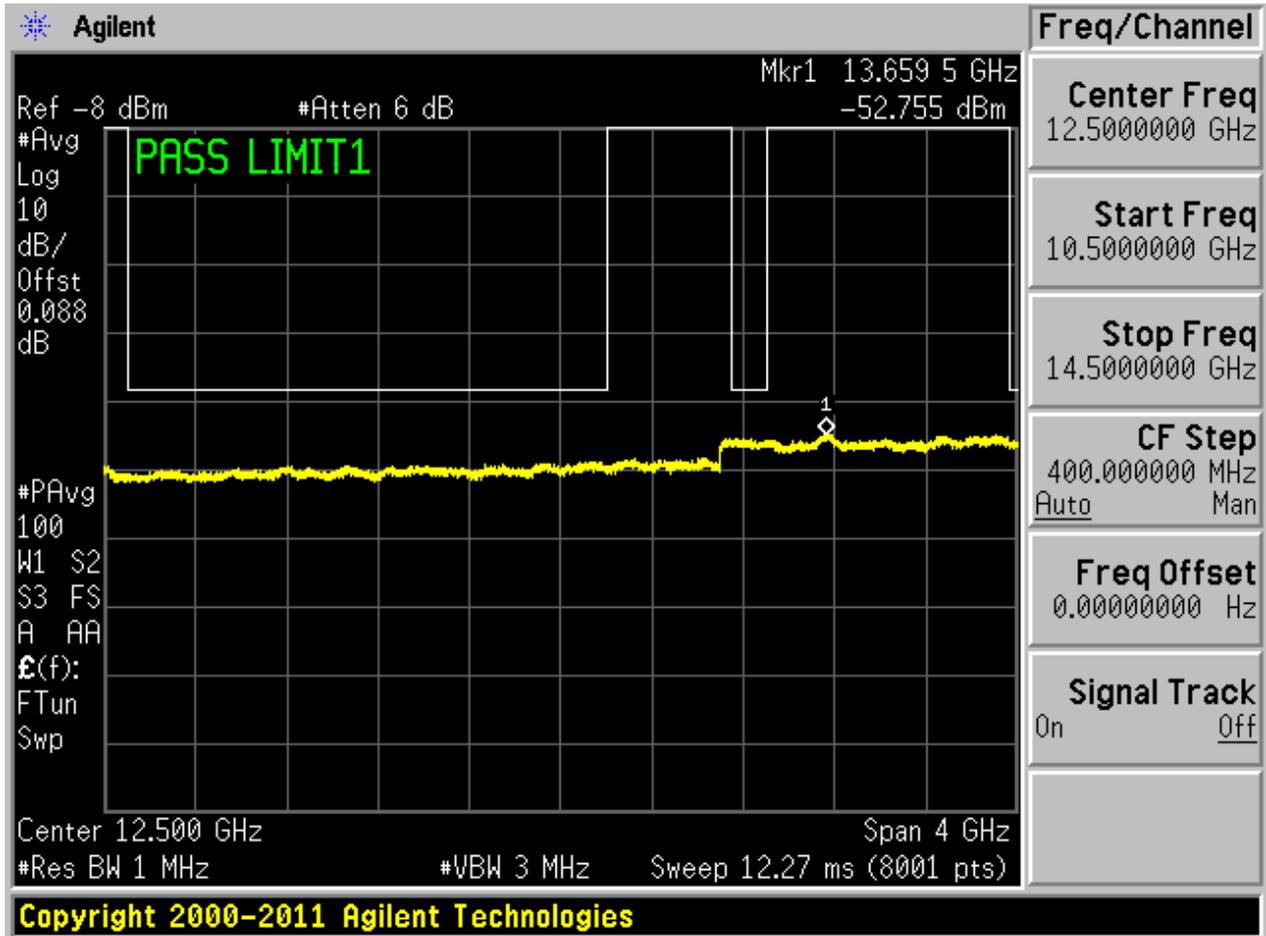


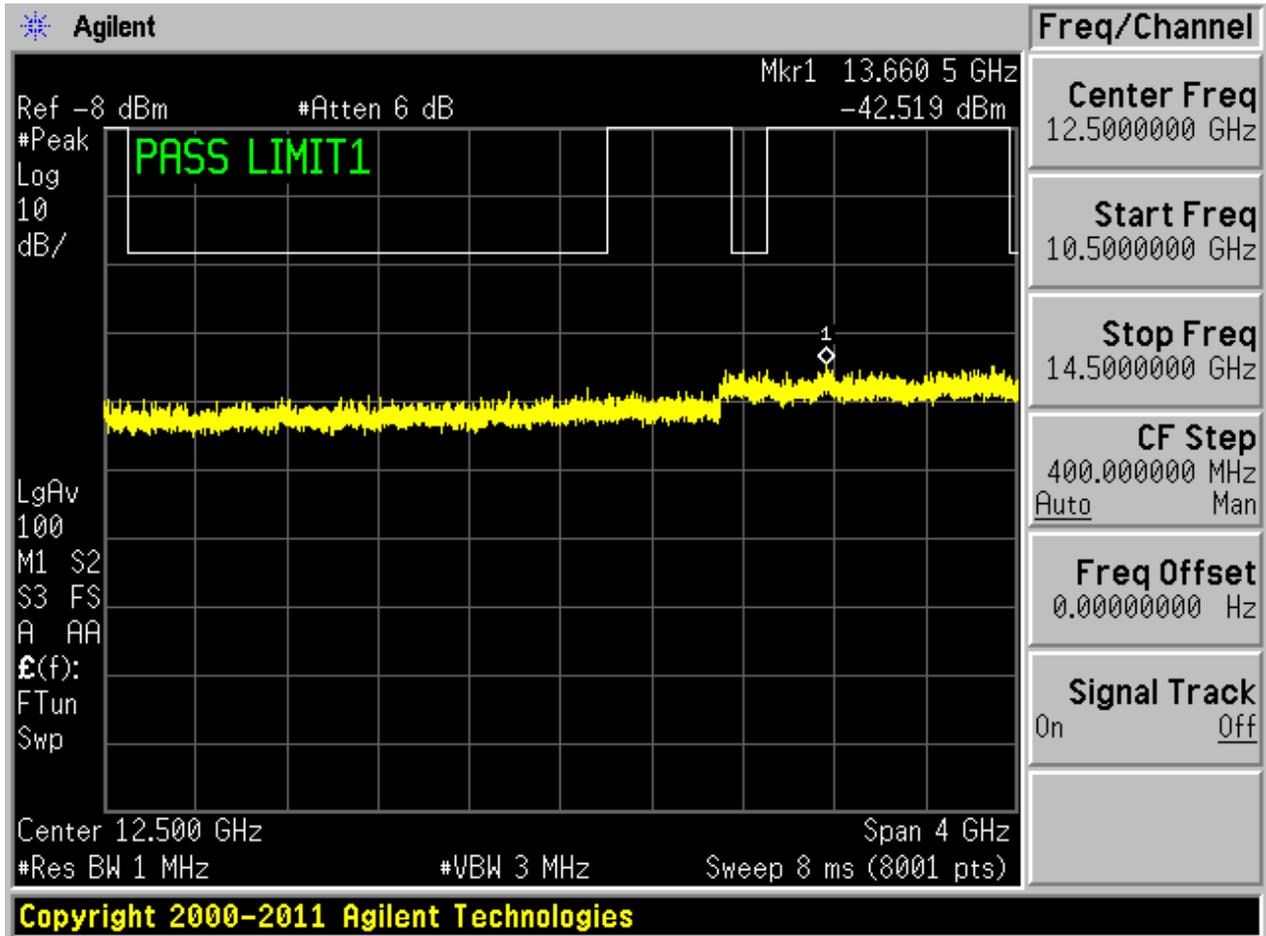


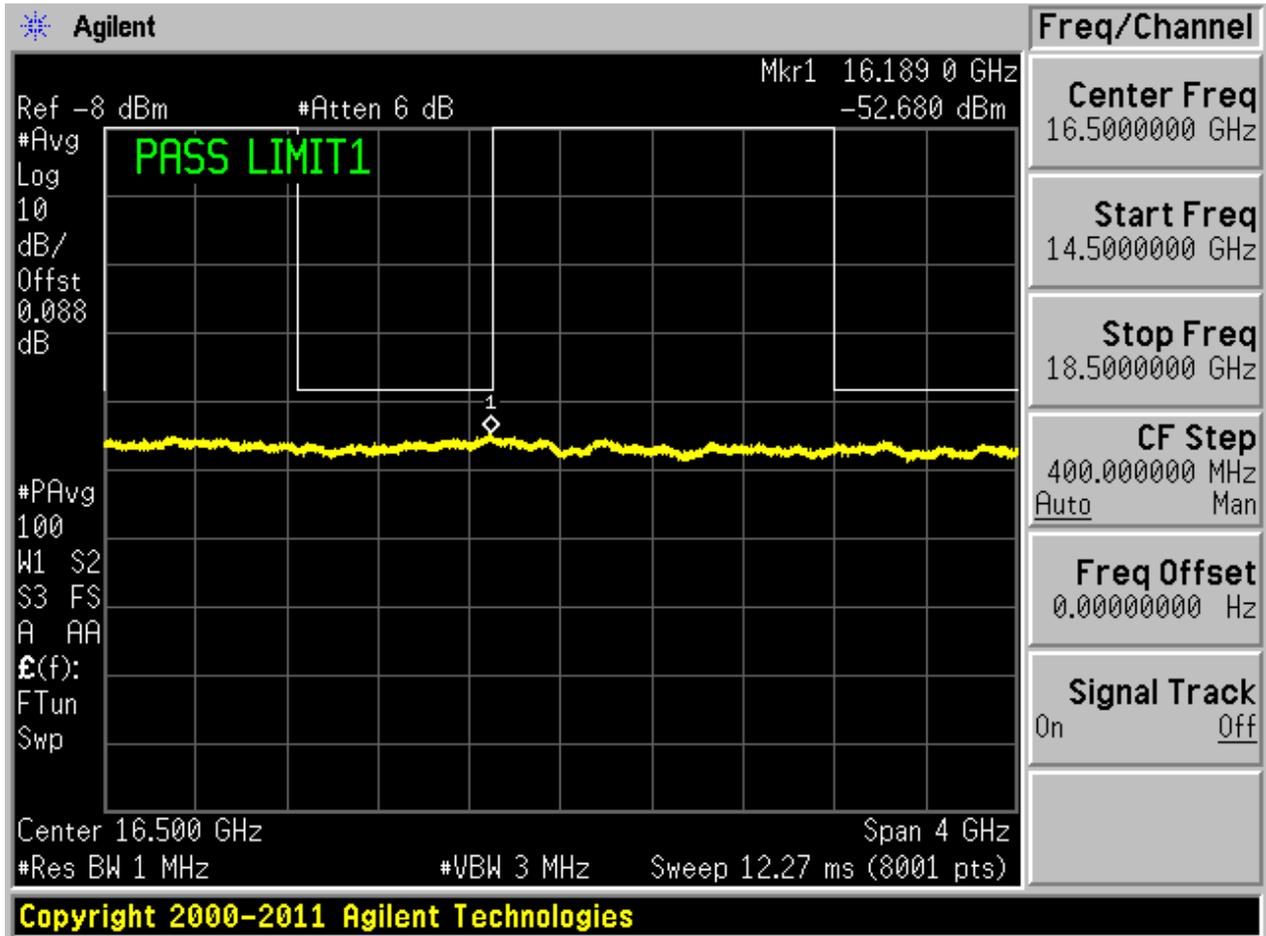


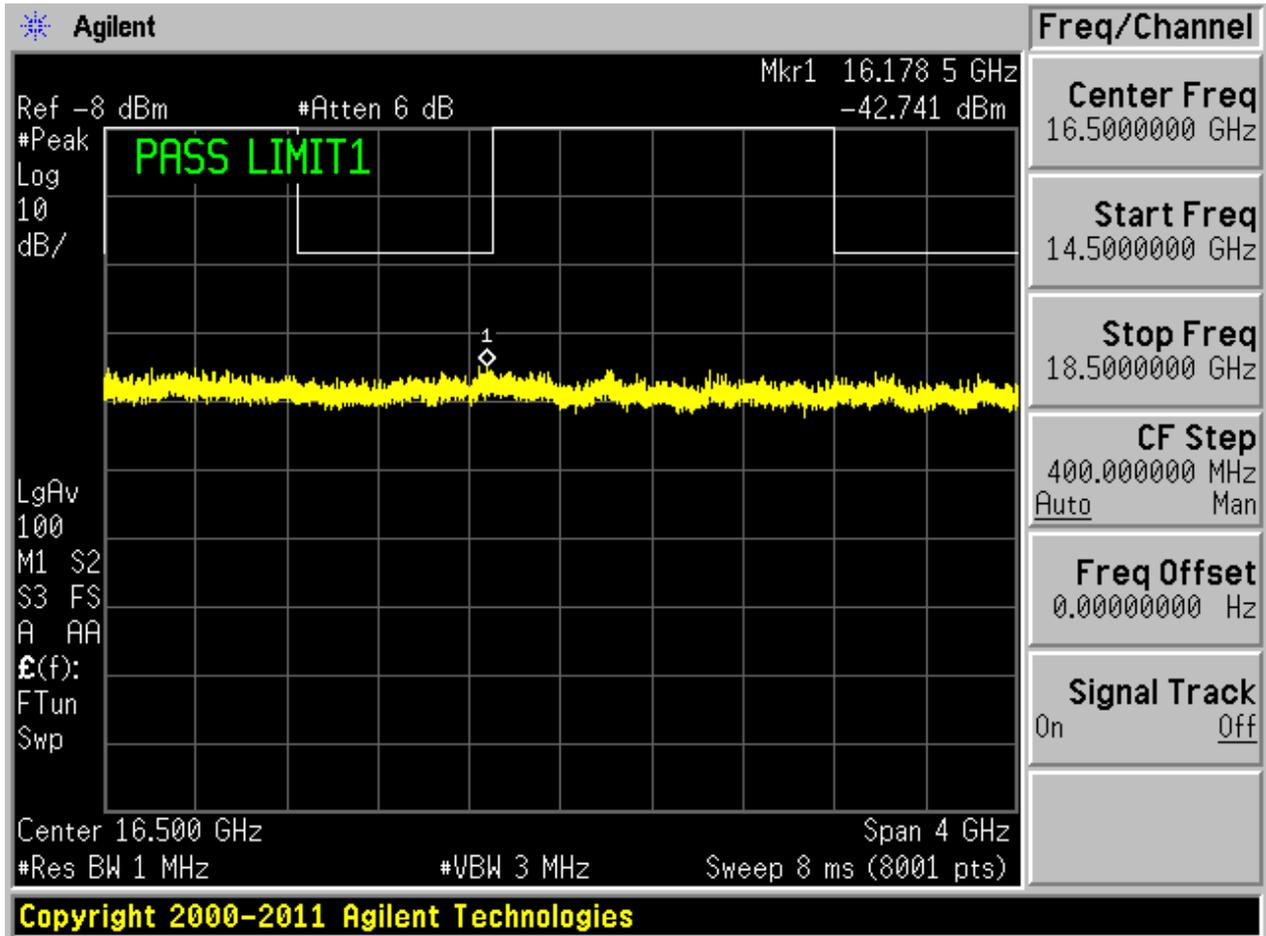


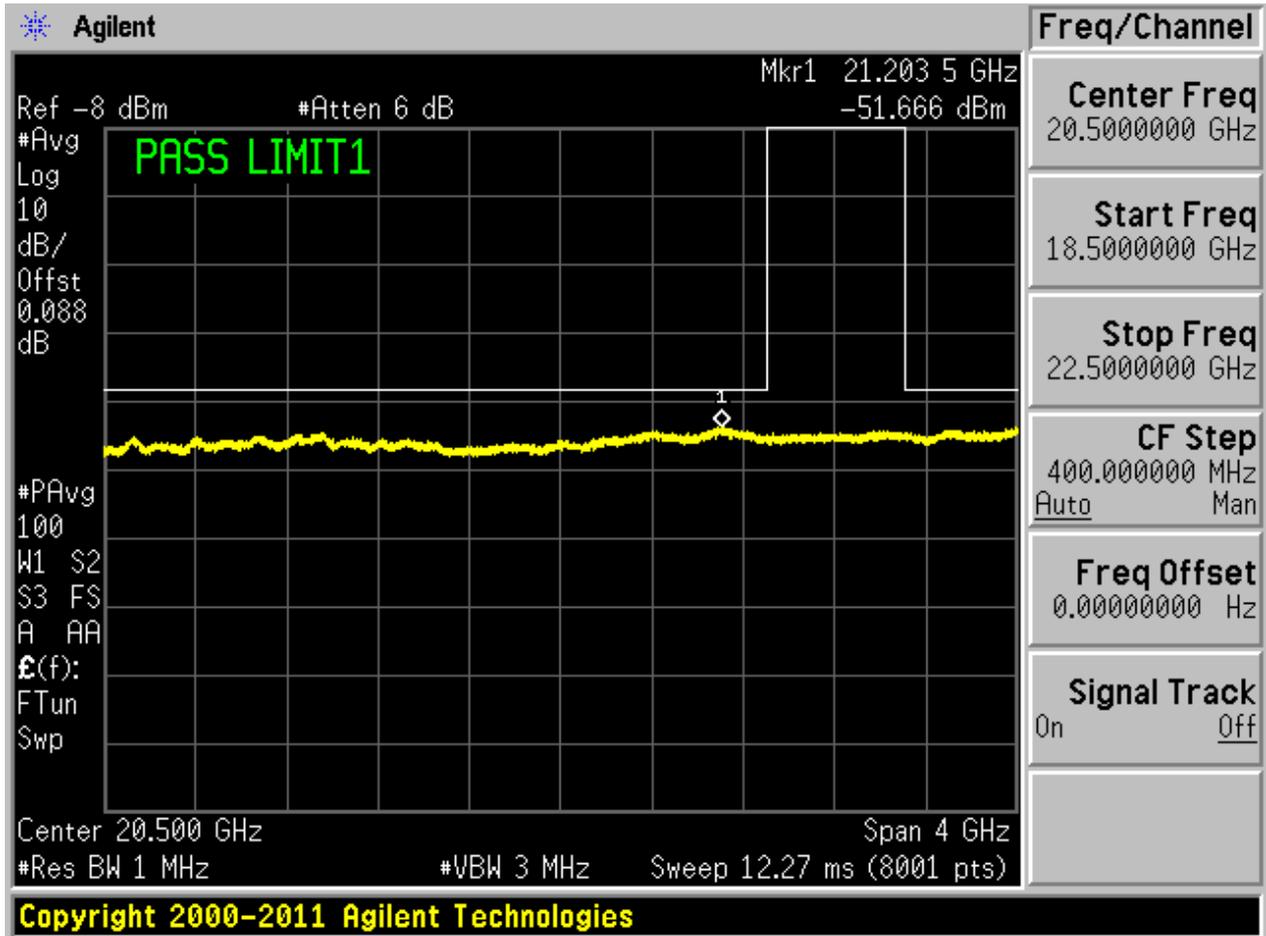
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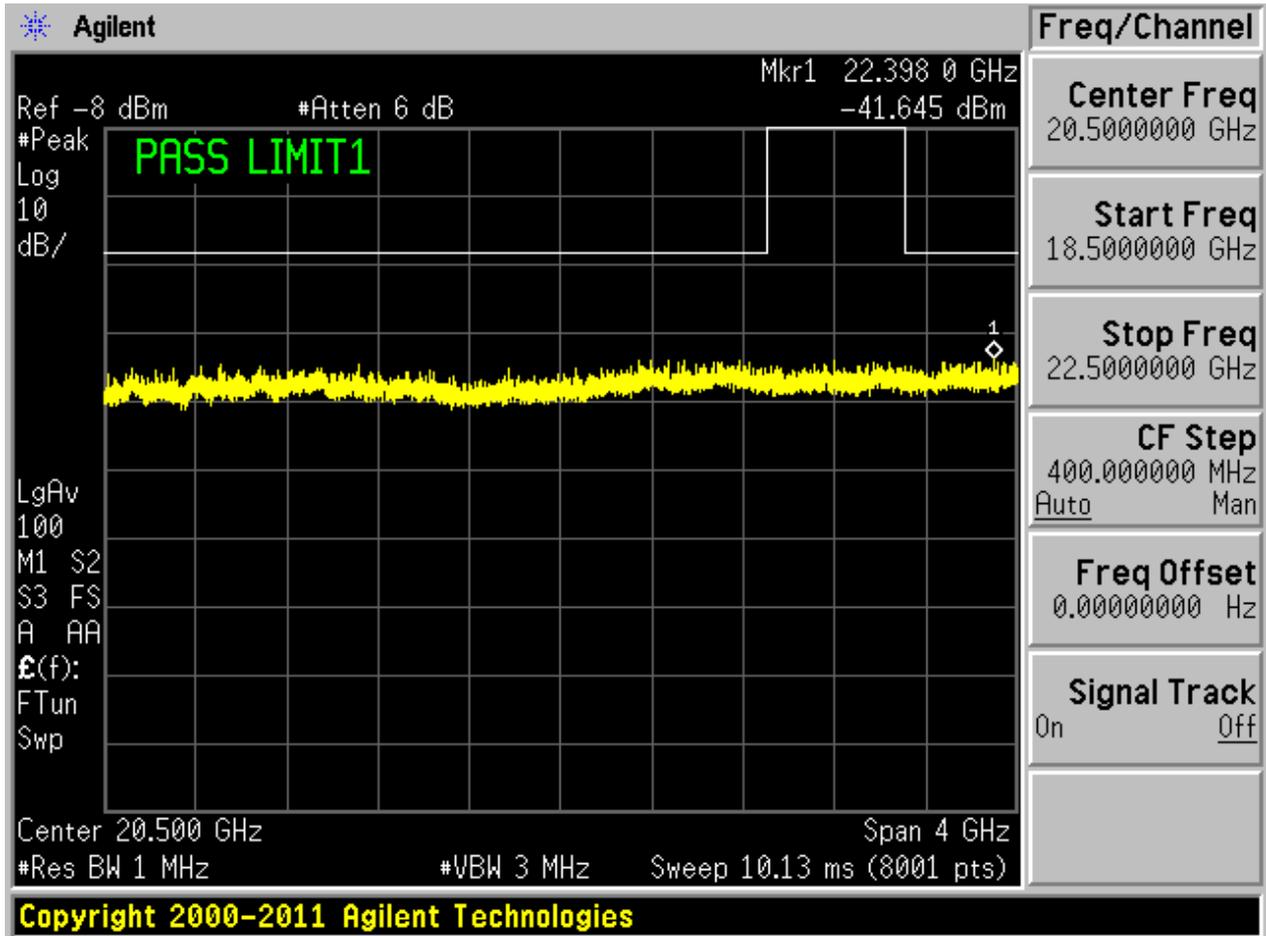


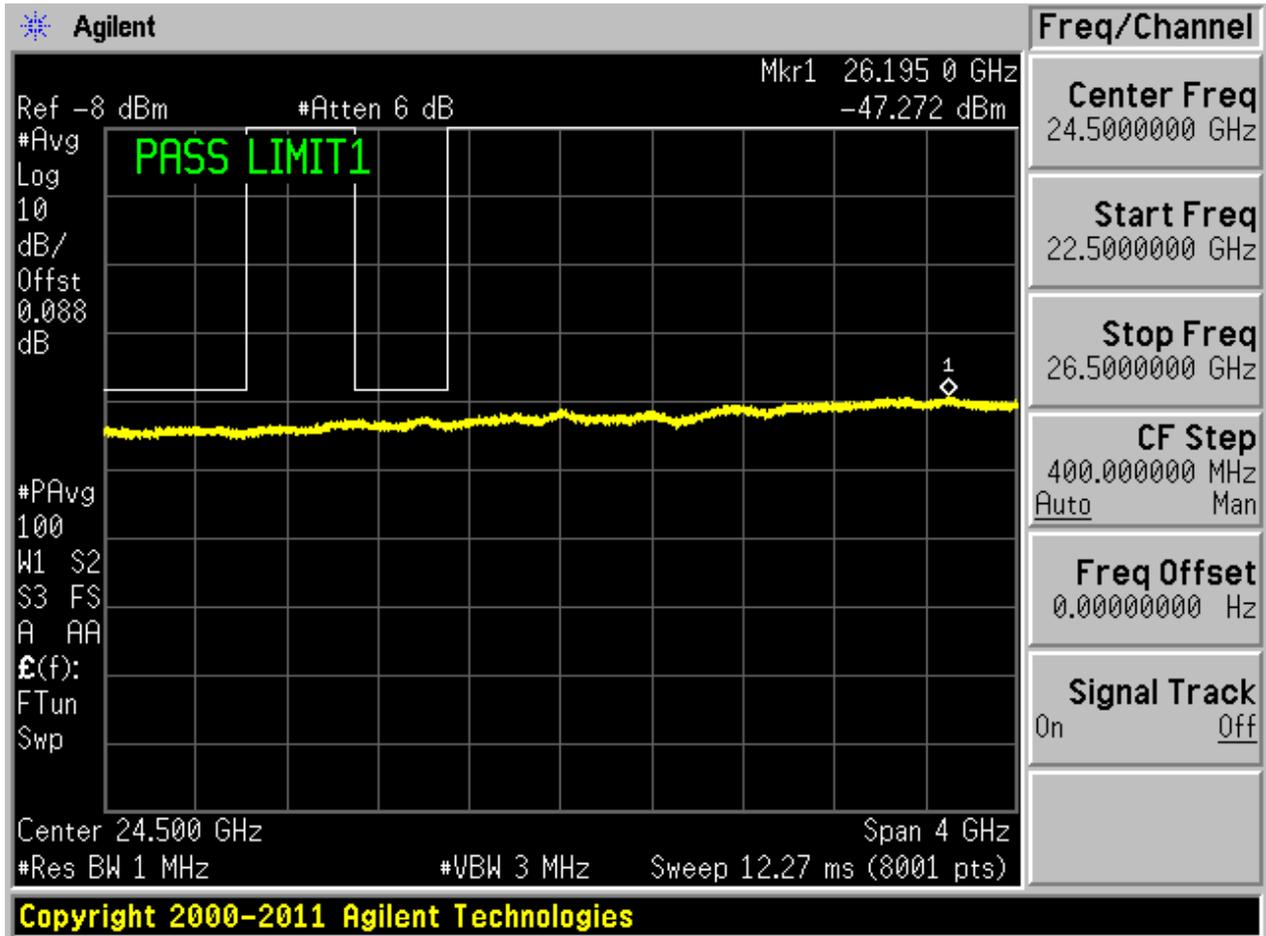


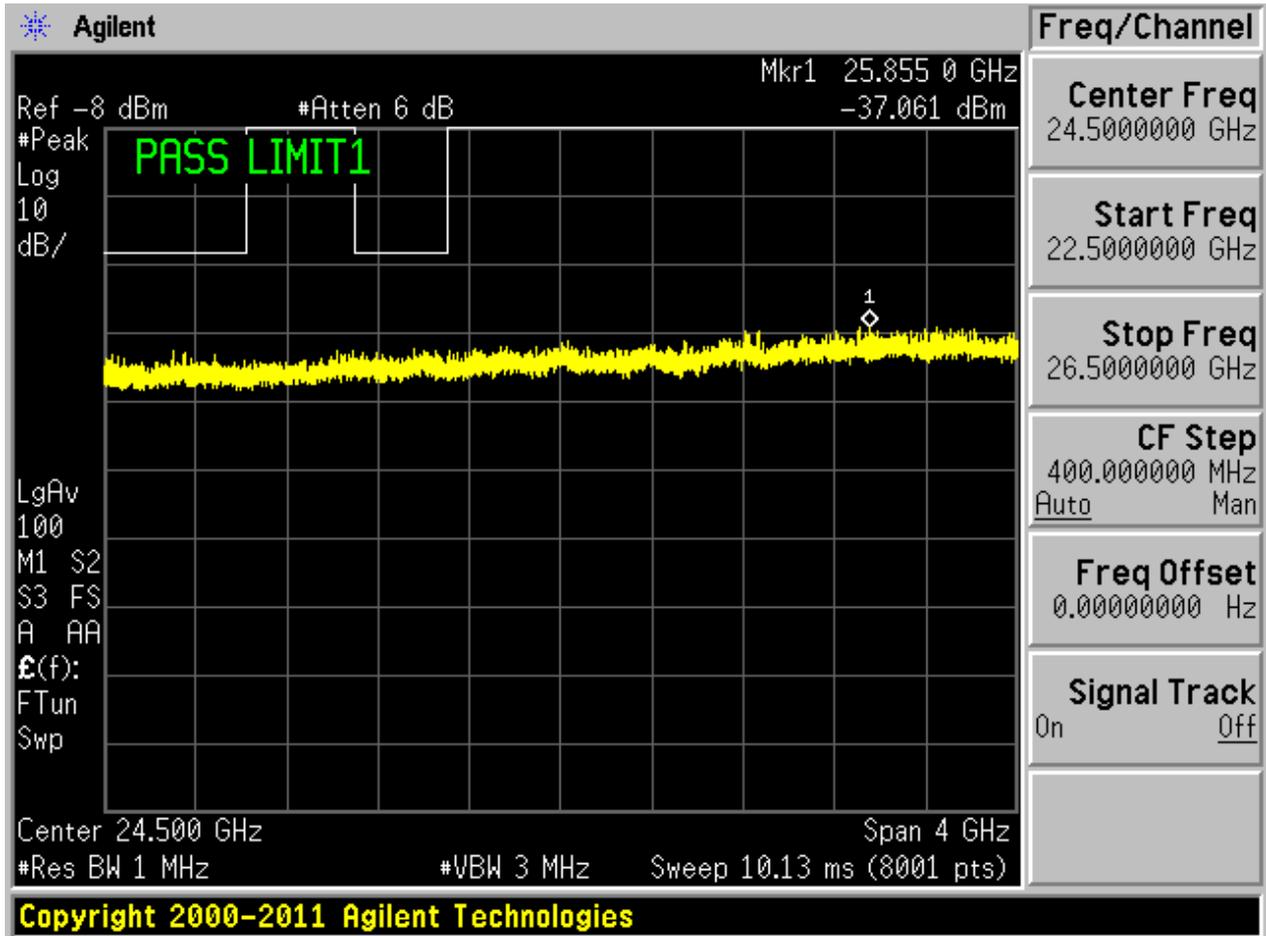










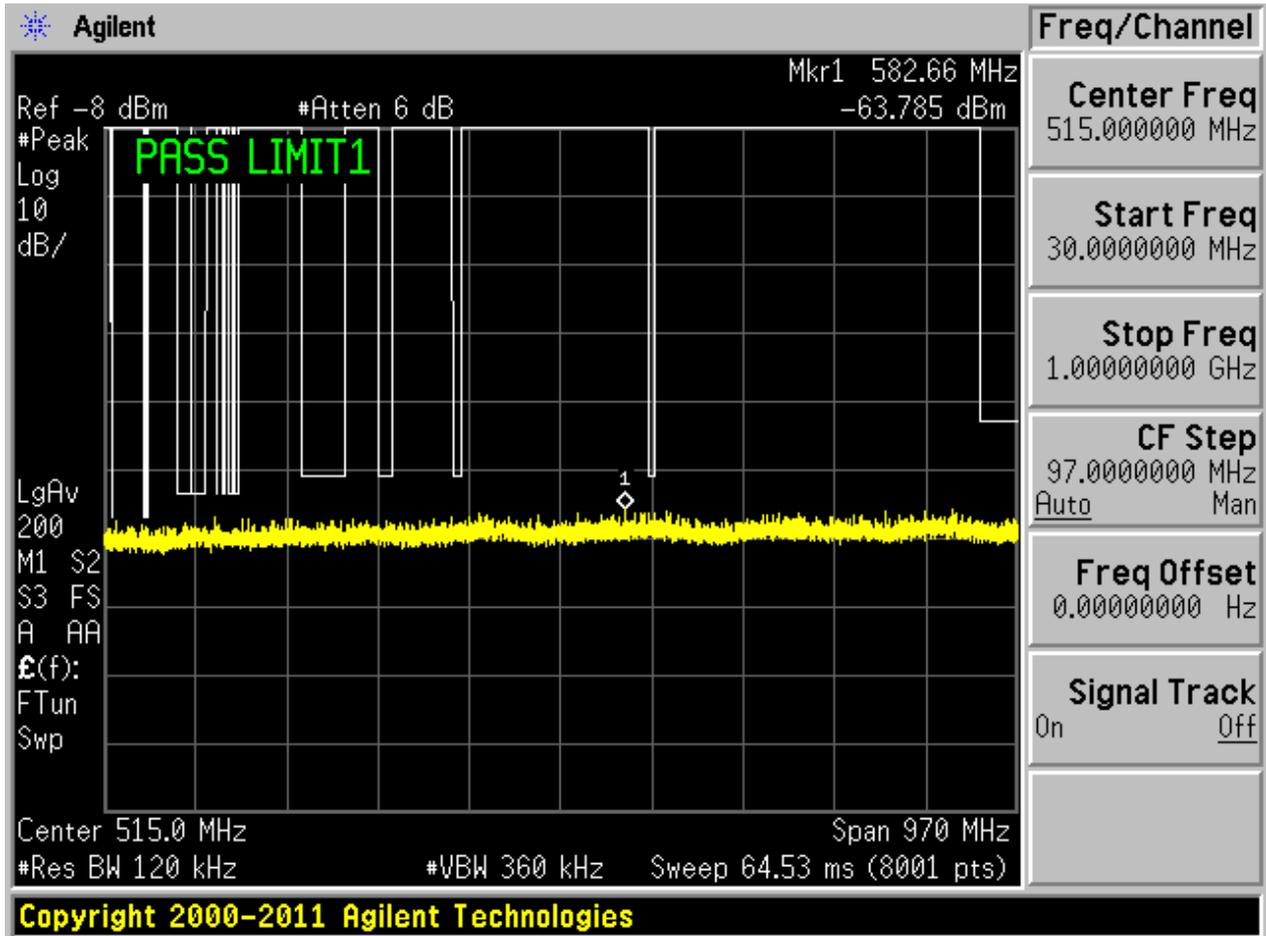


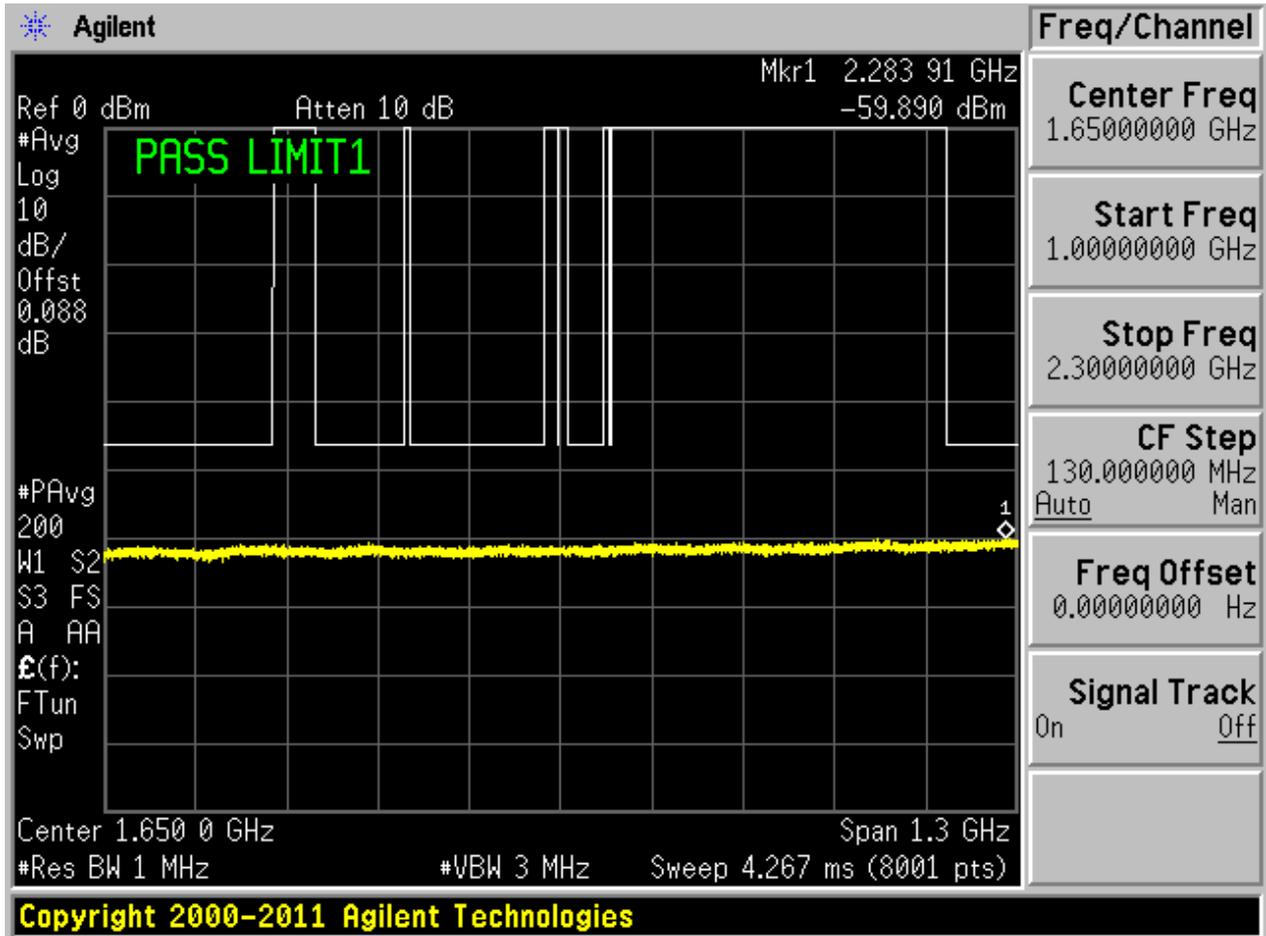
2.29.3 Trace#sum (if needed for final judgment)

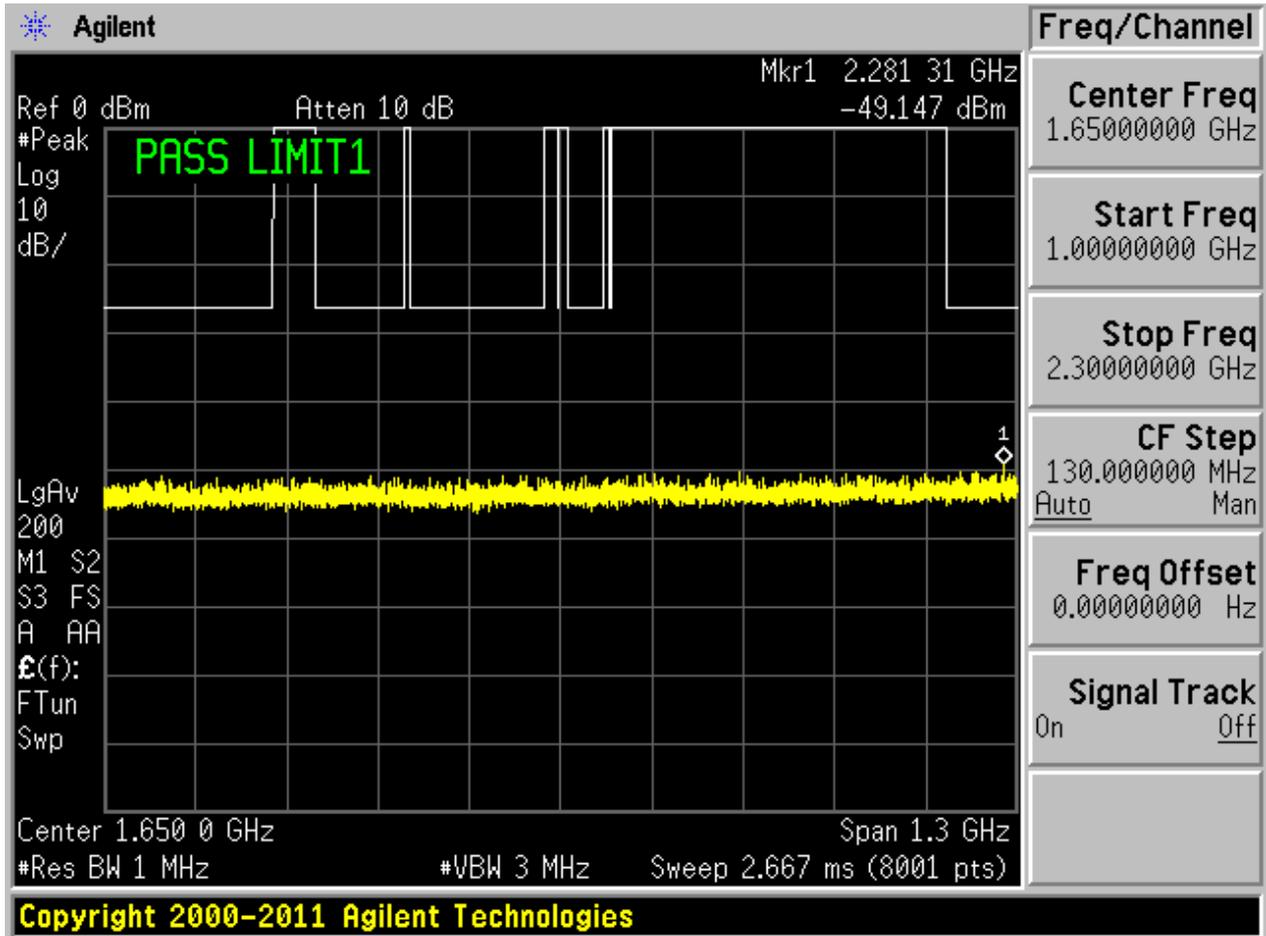
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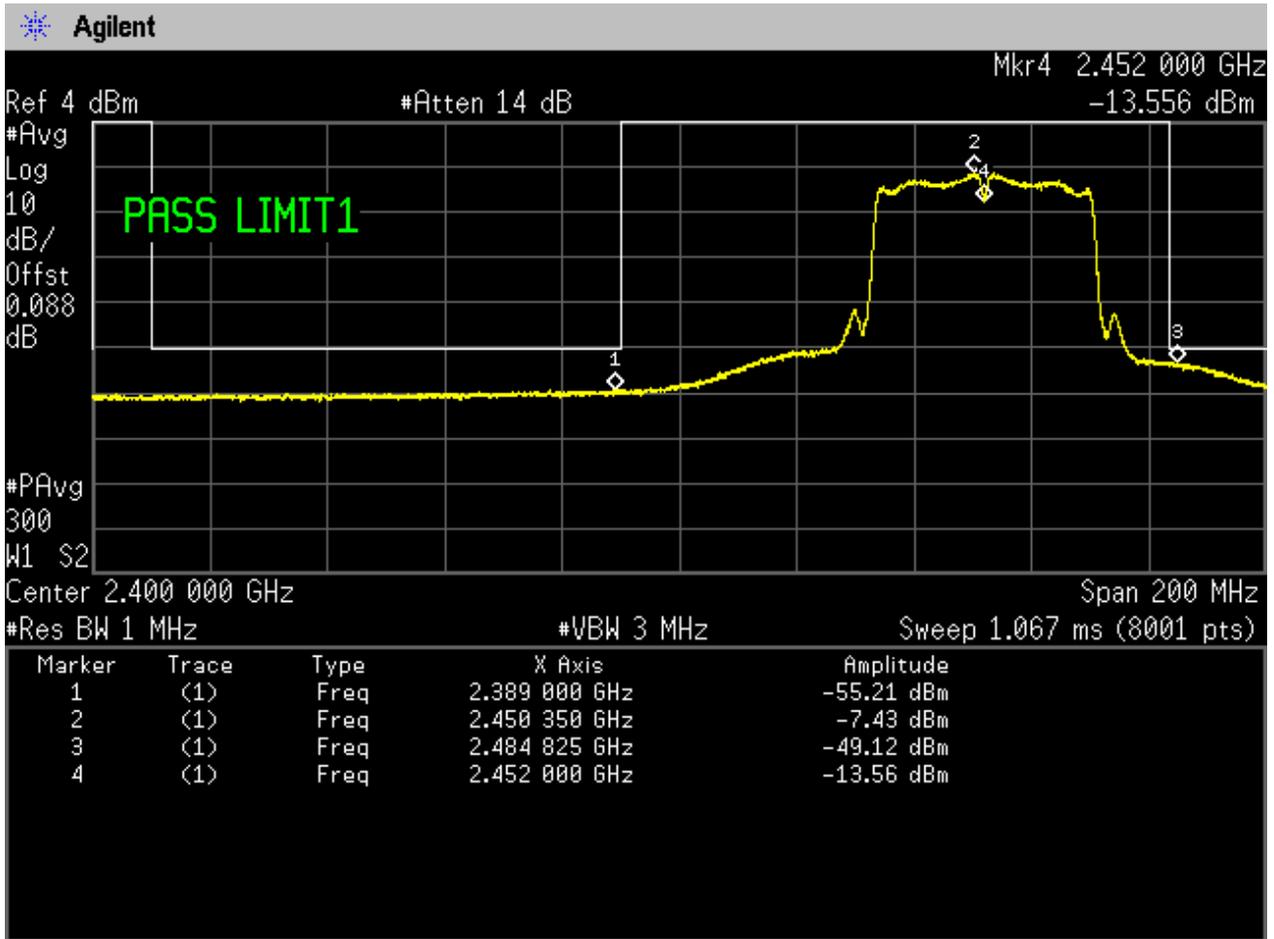
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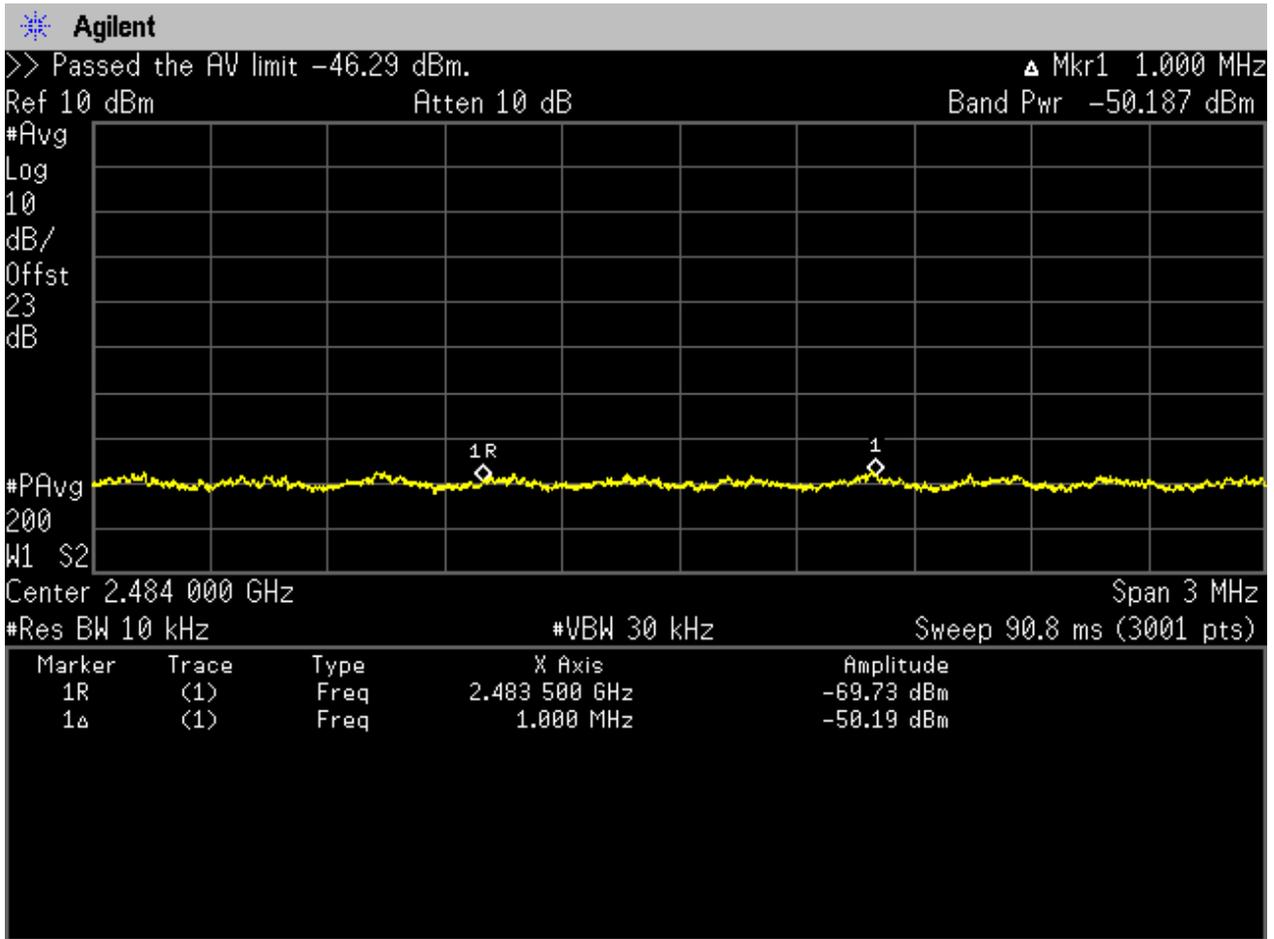
2.30.1 Ant 1 (Trace#1)

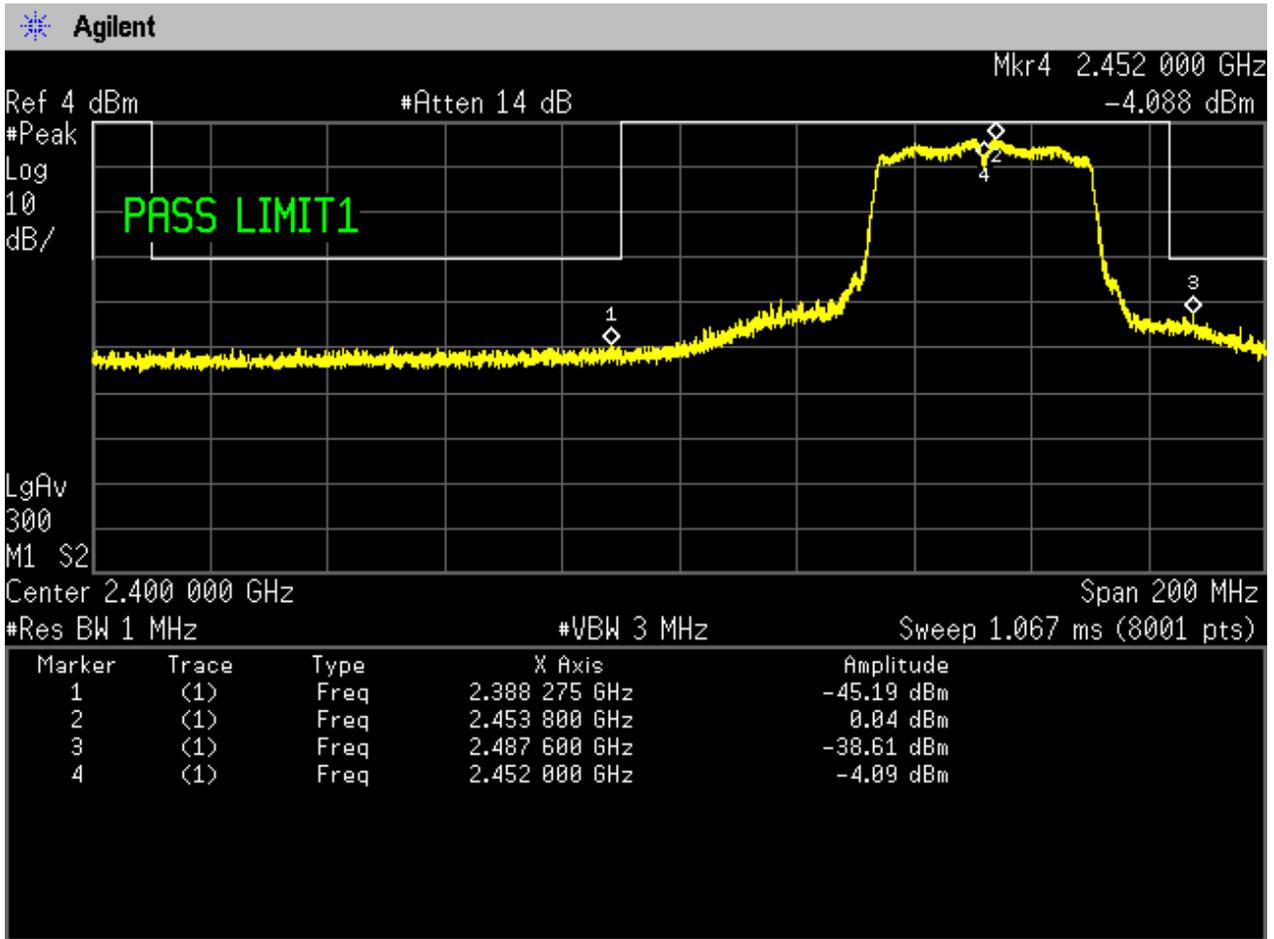


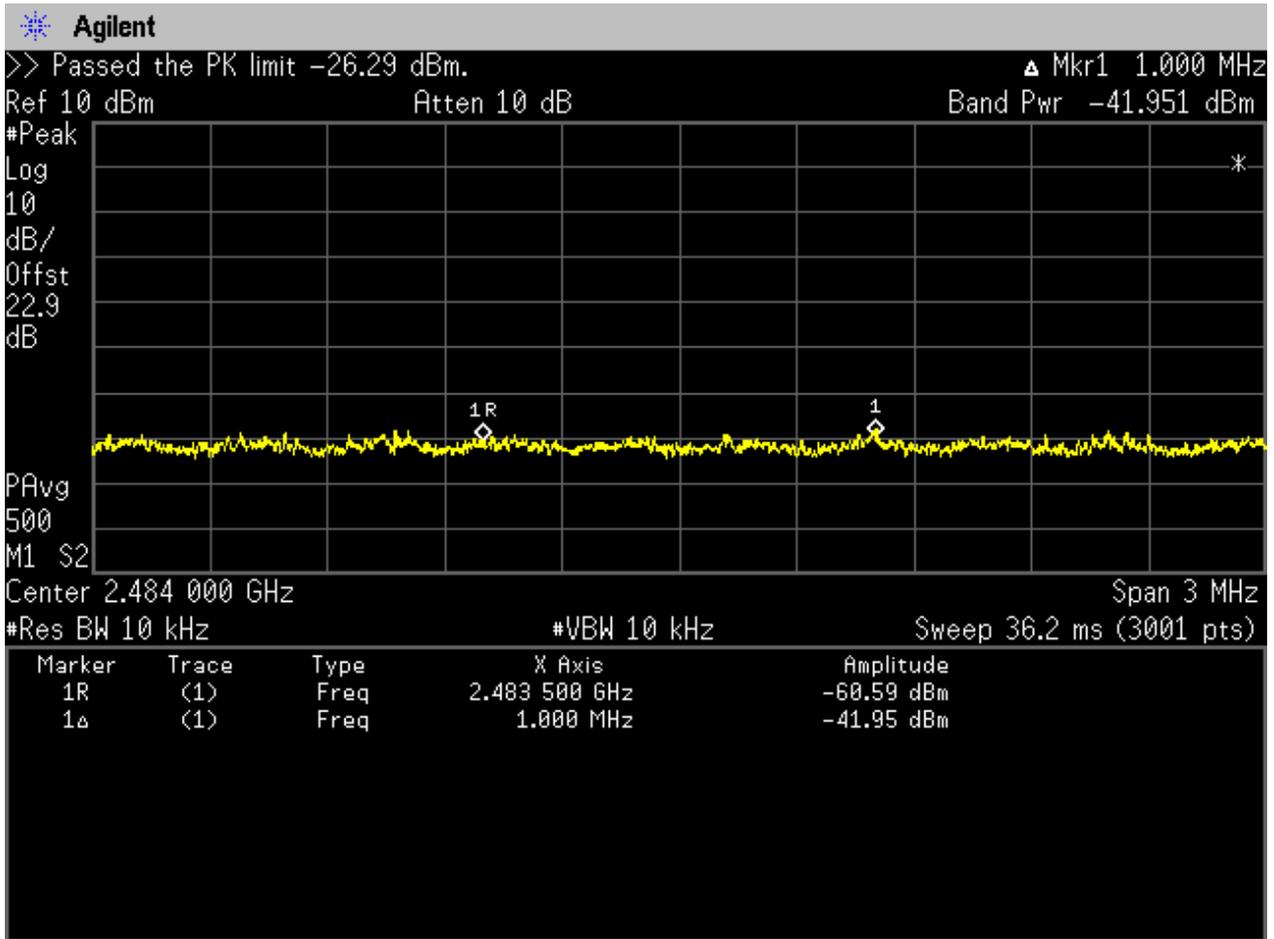


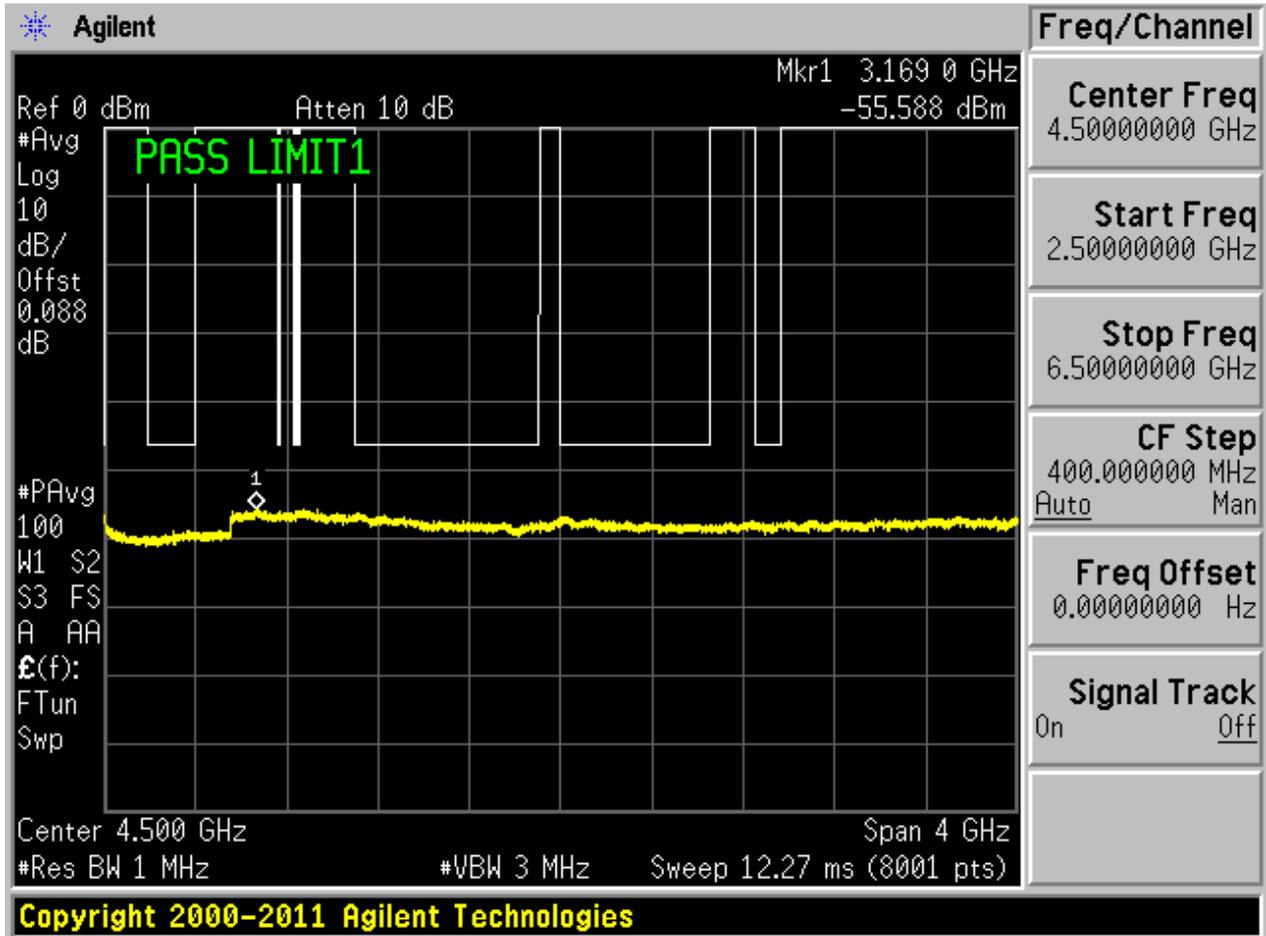


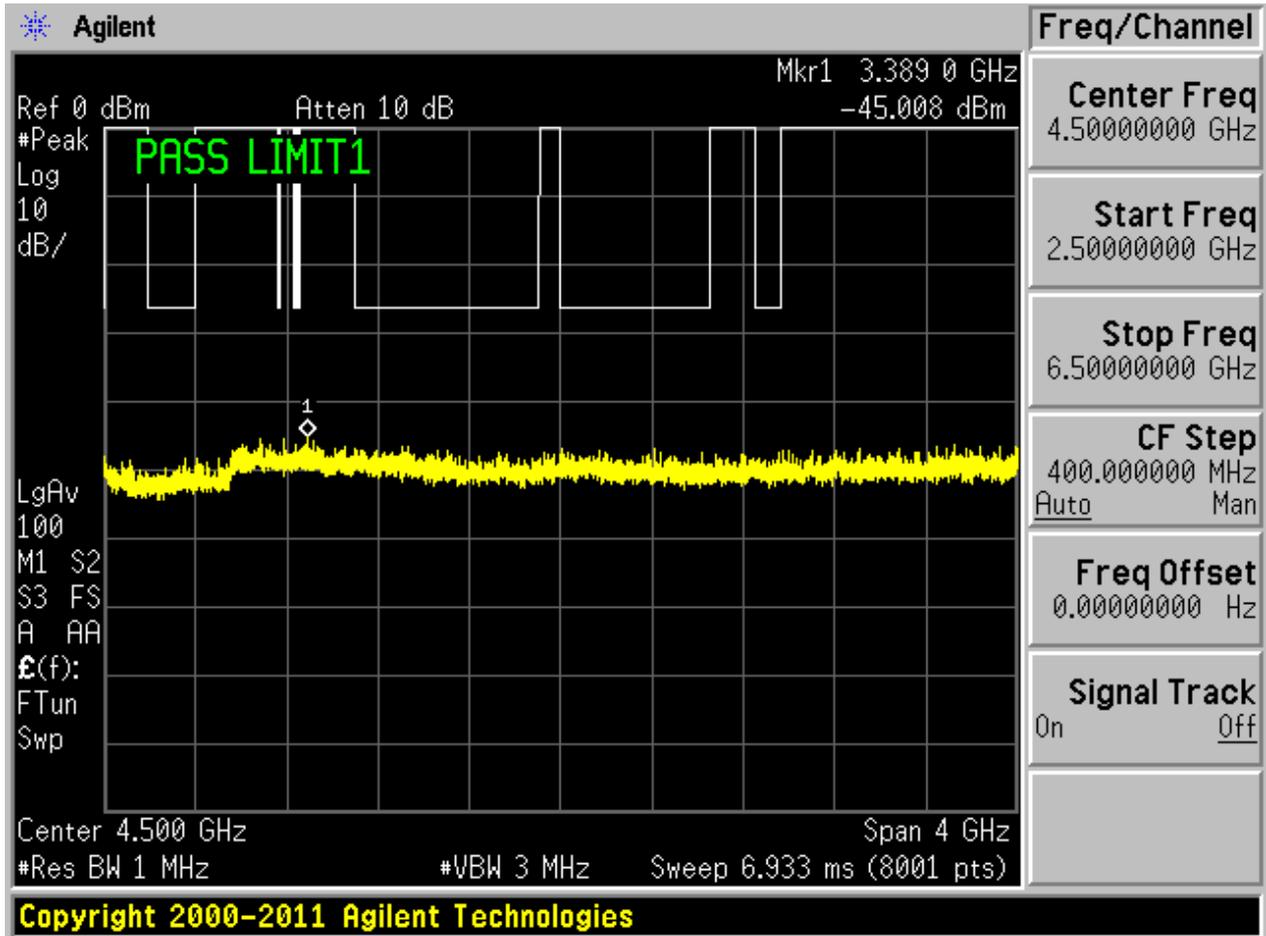


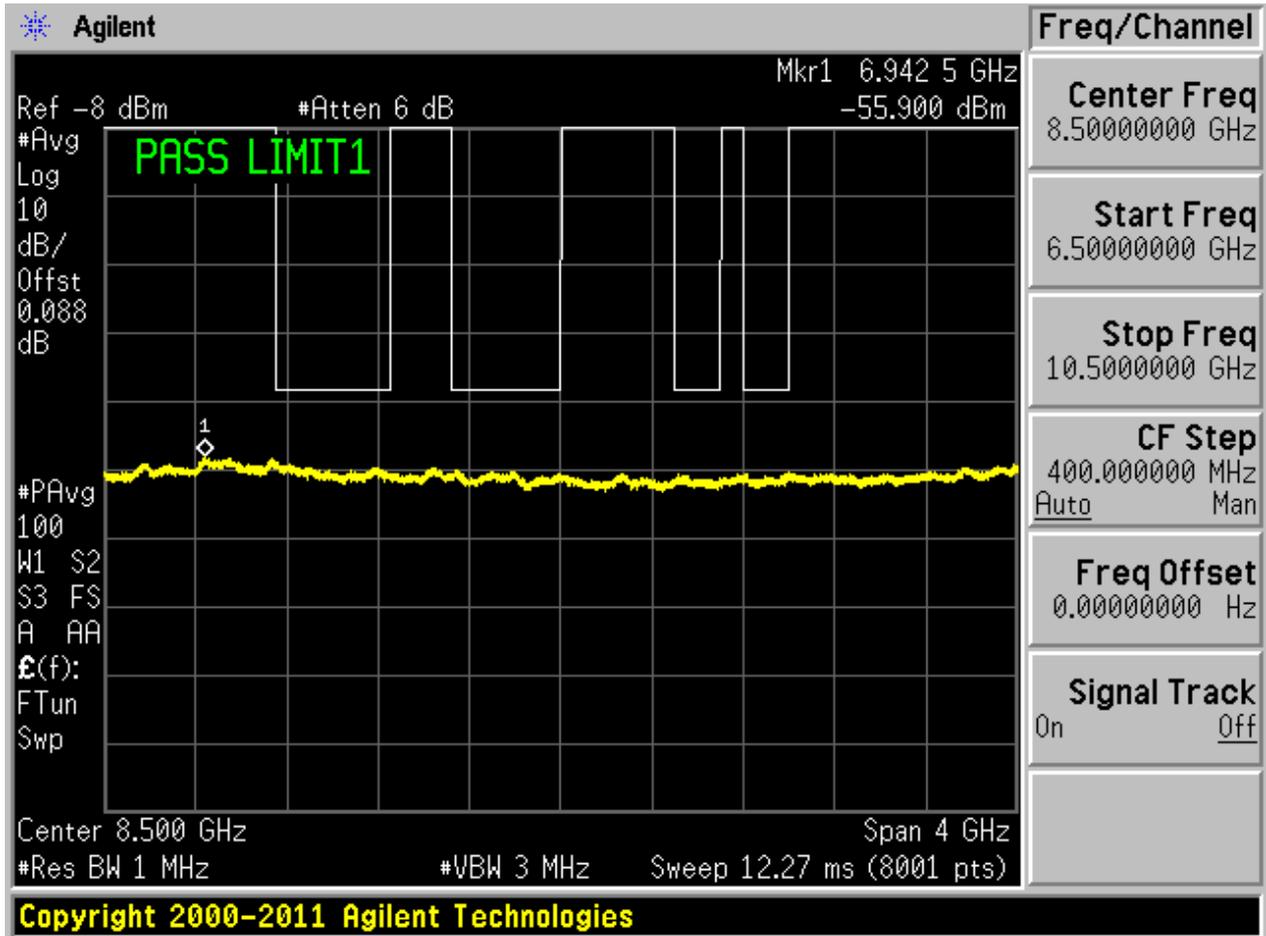


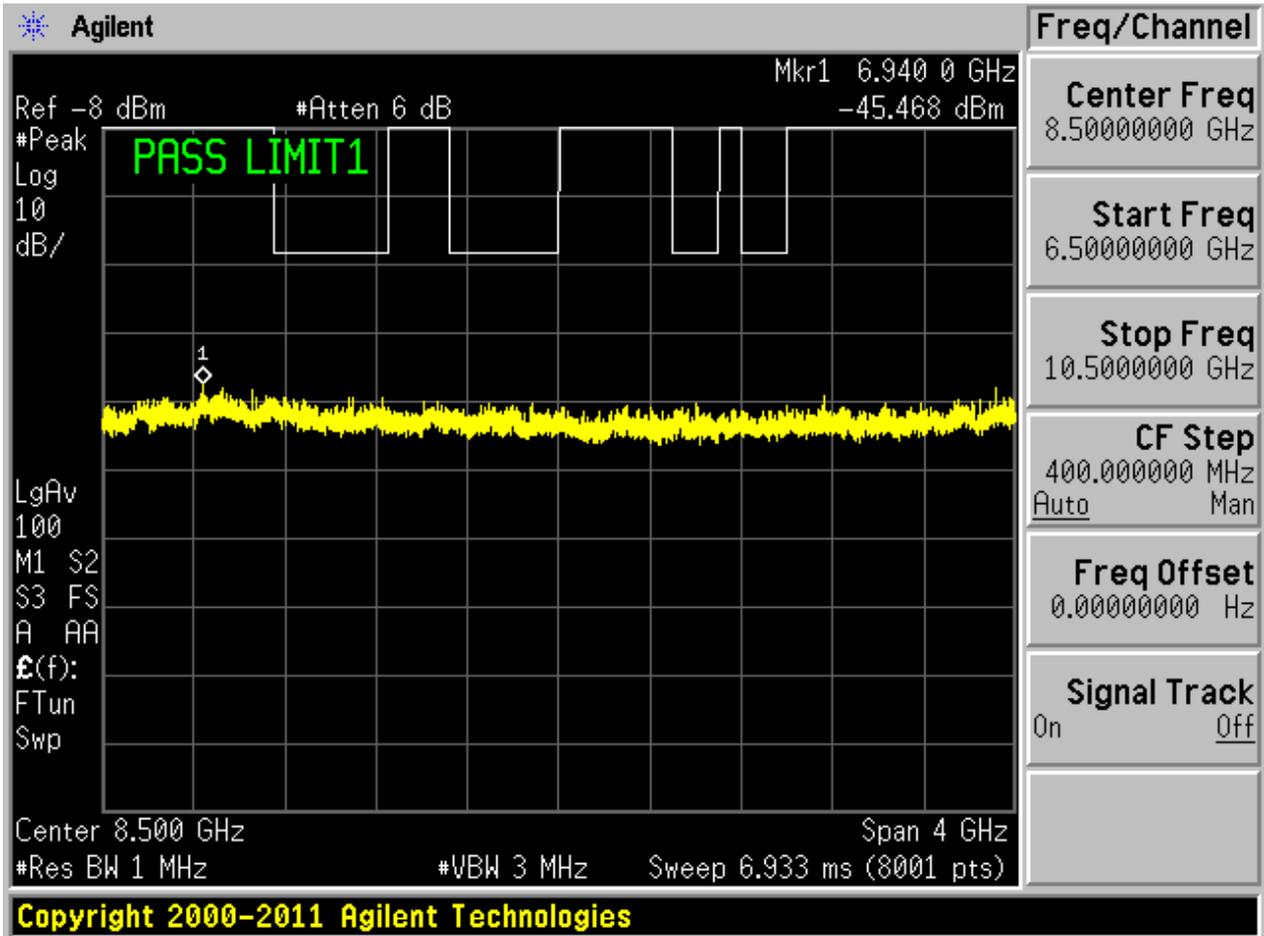


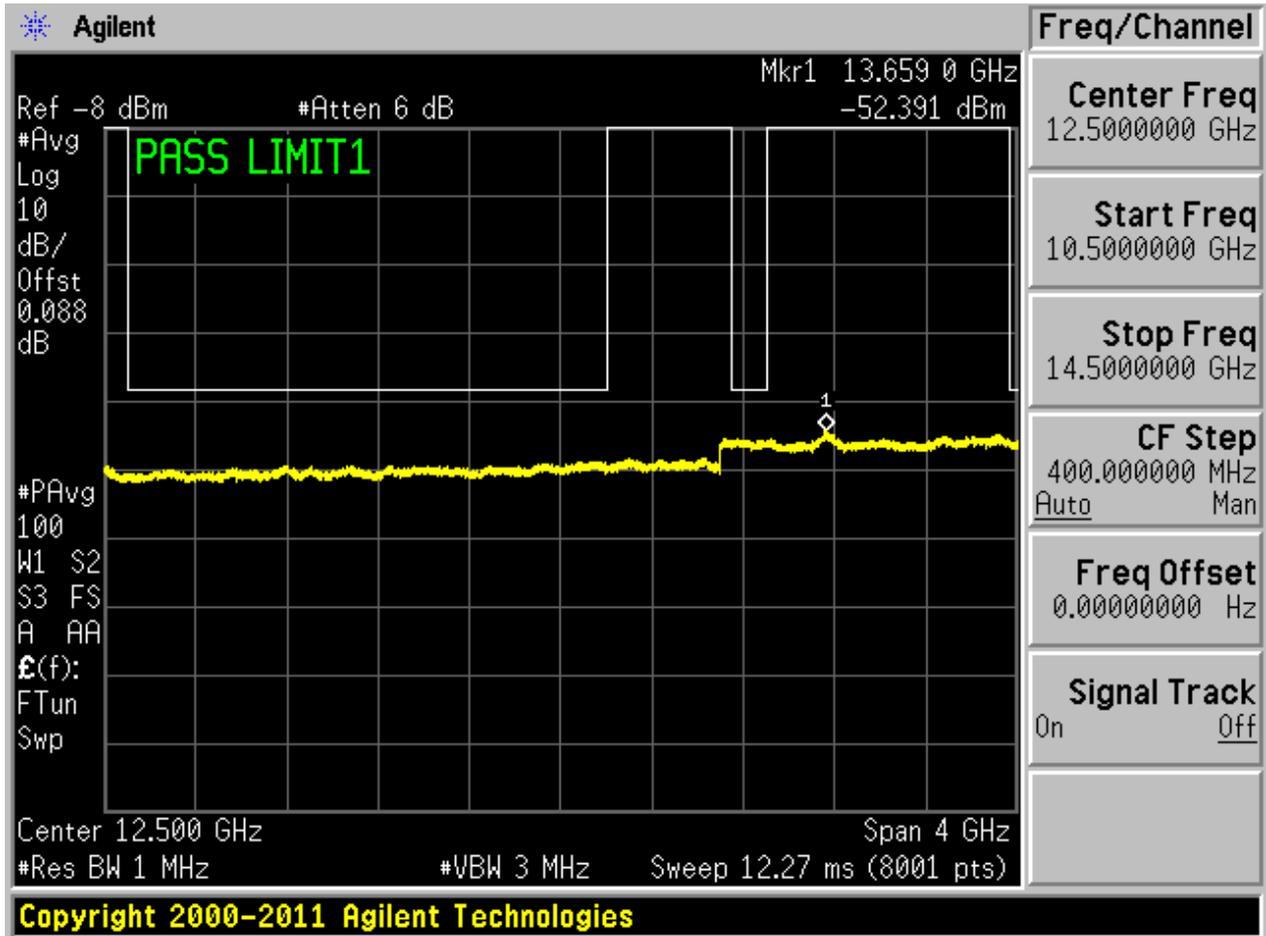


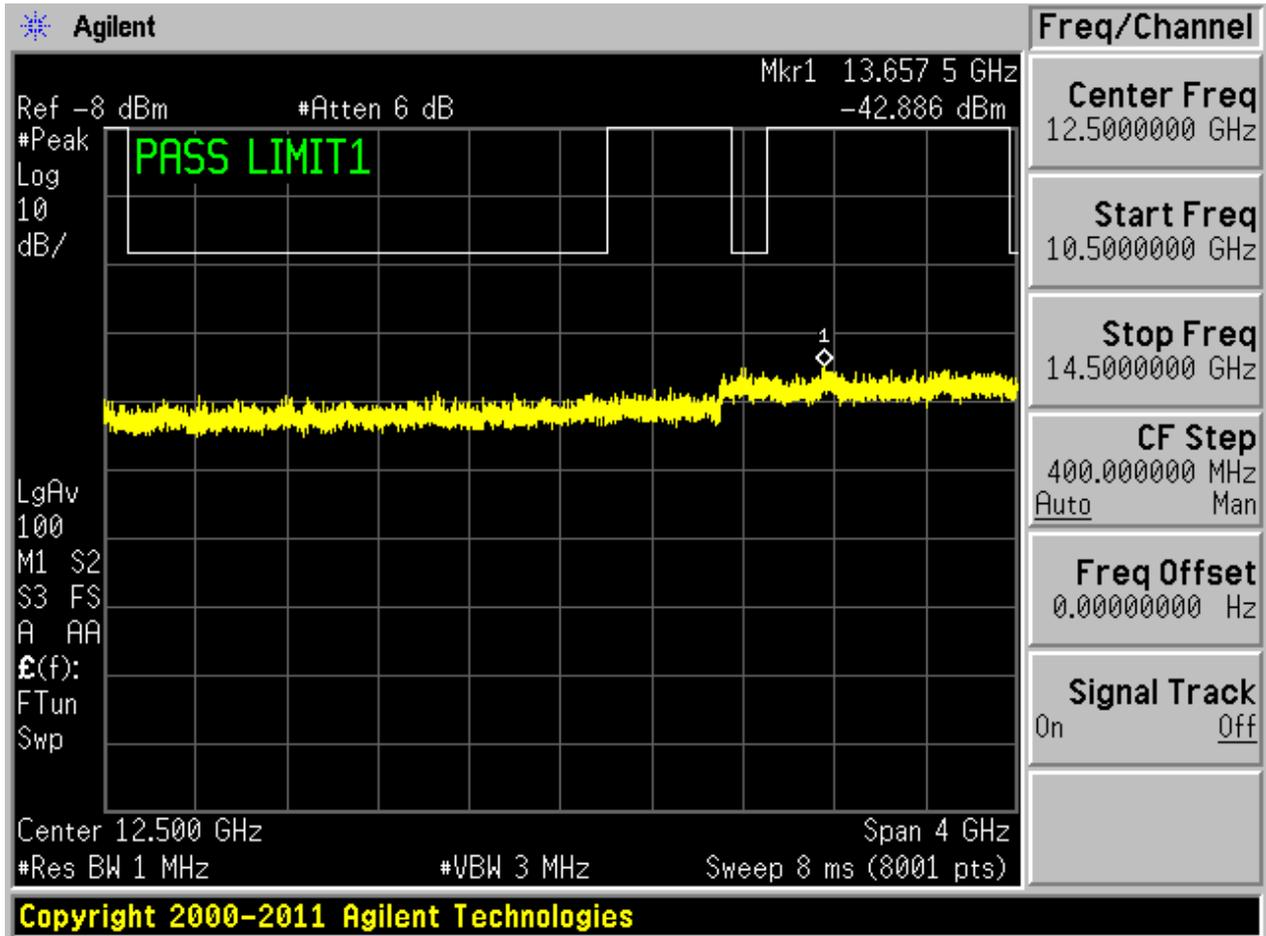


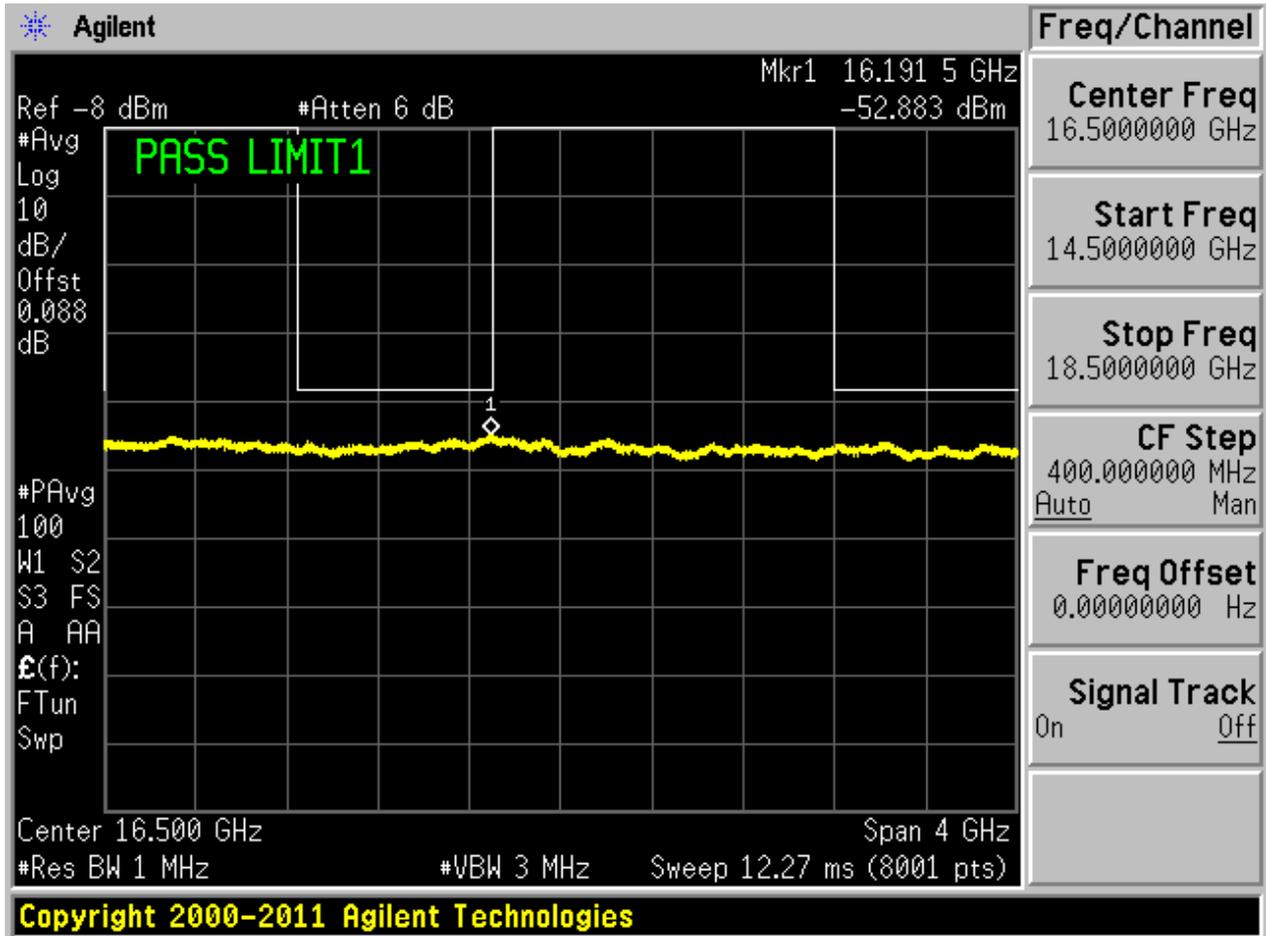


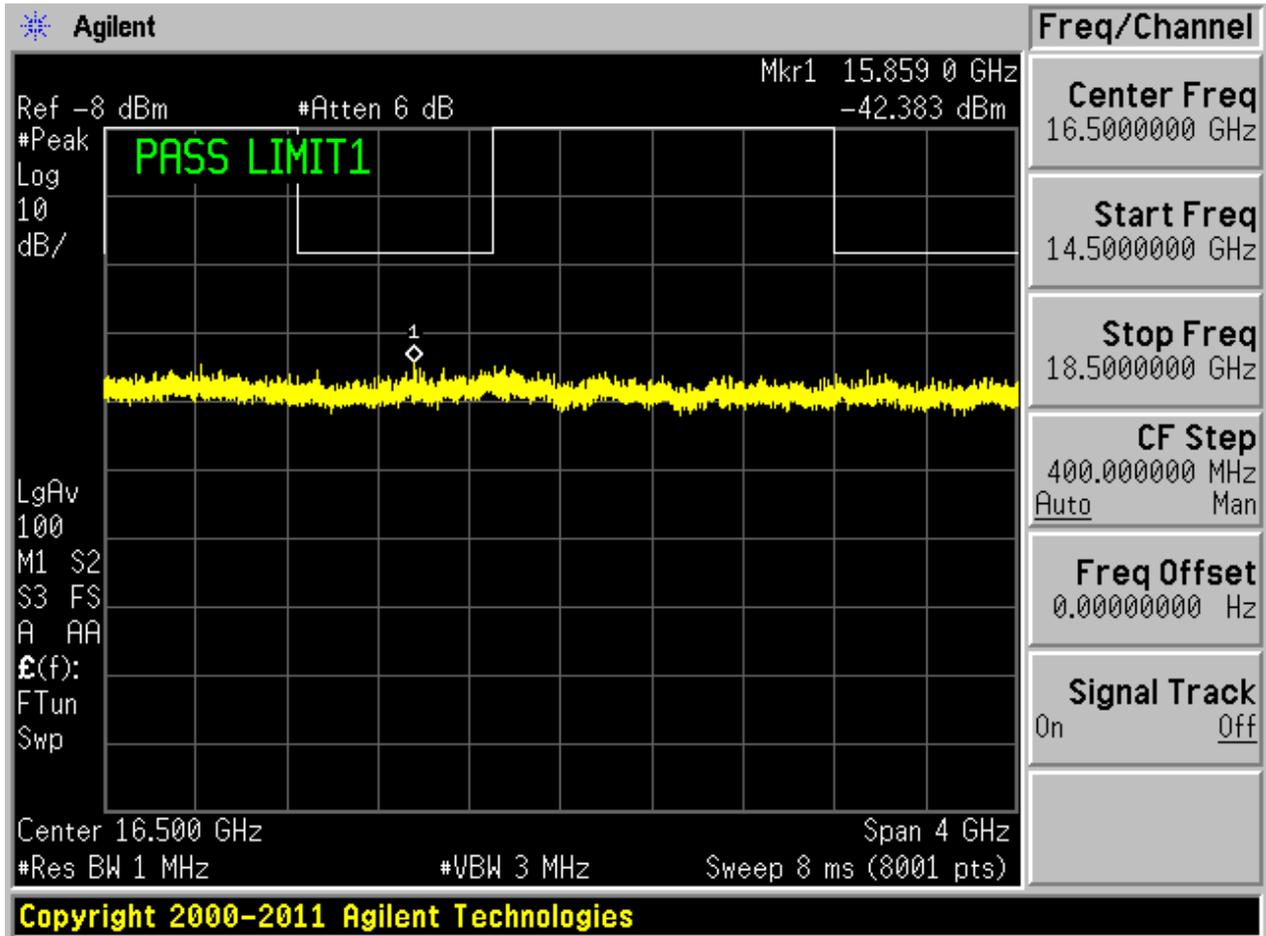


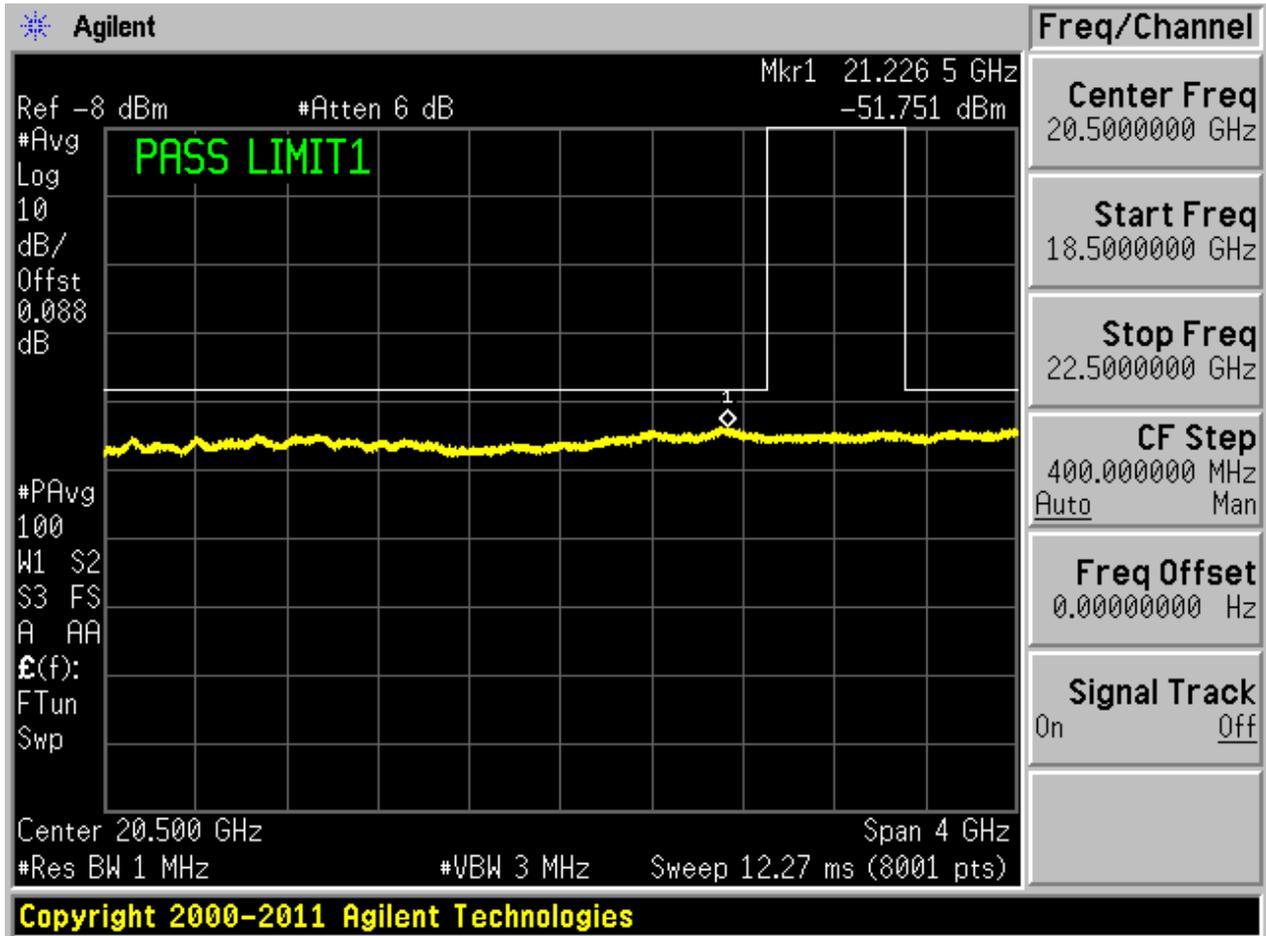


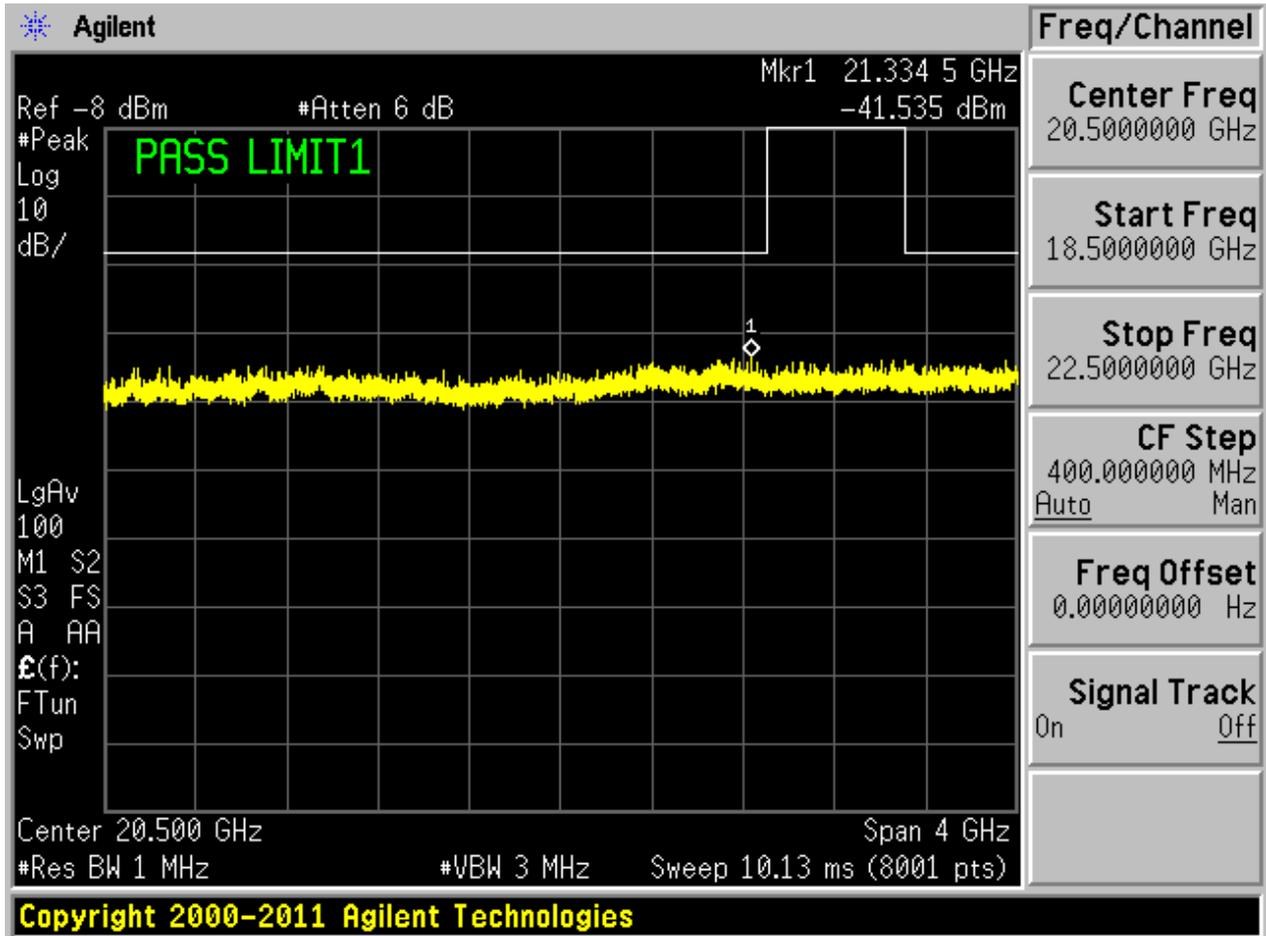




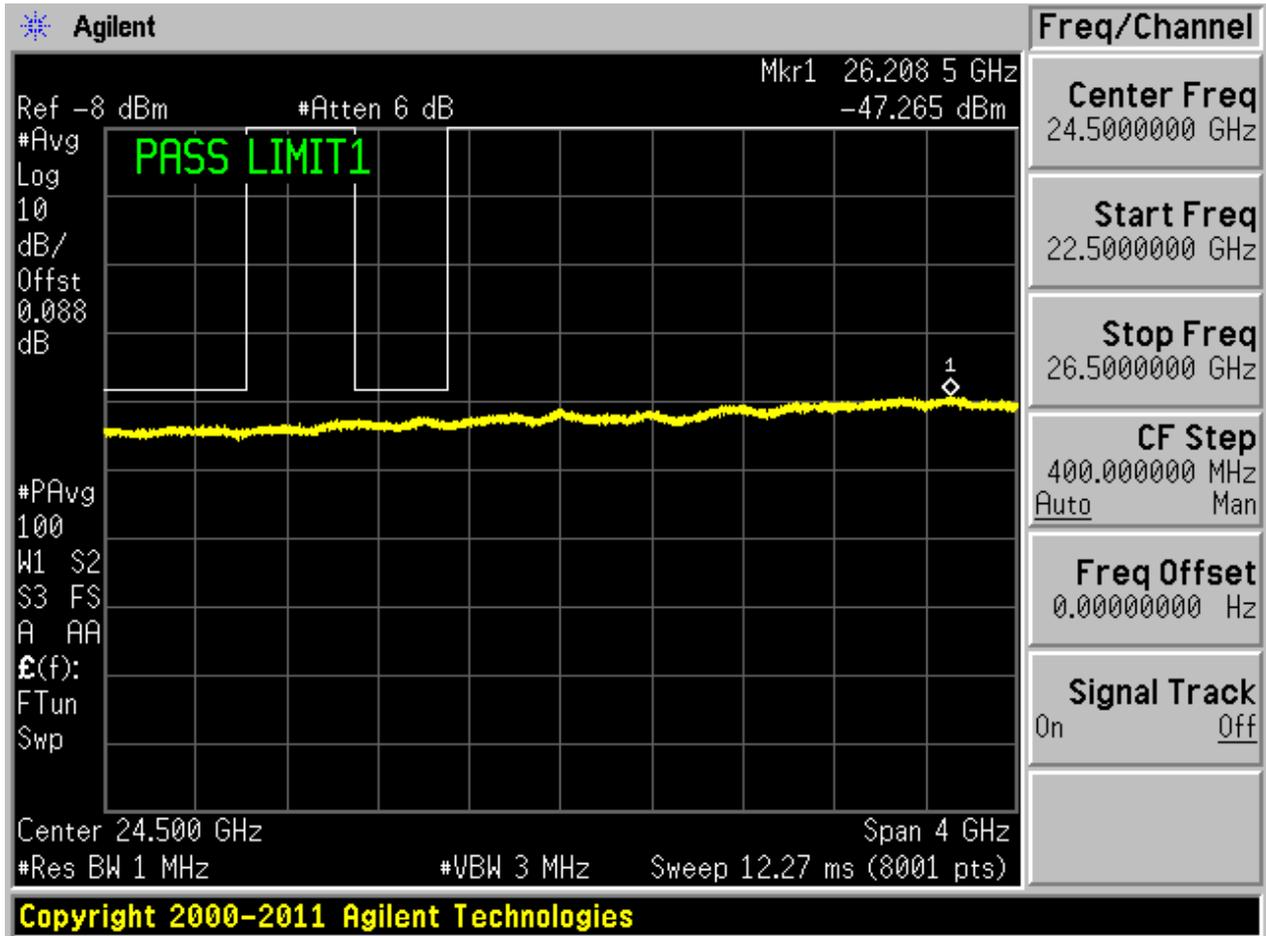


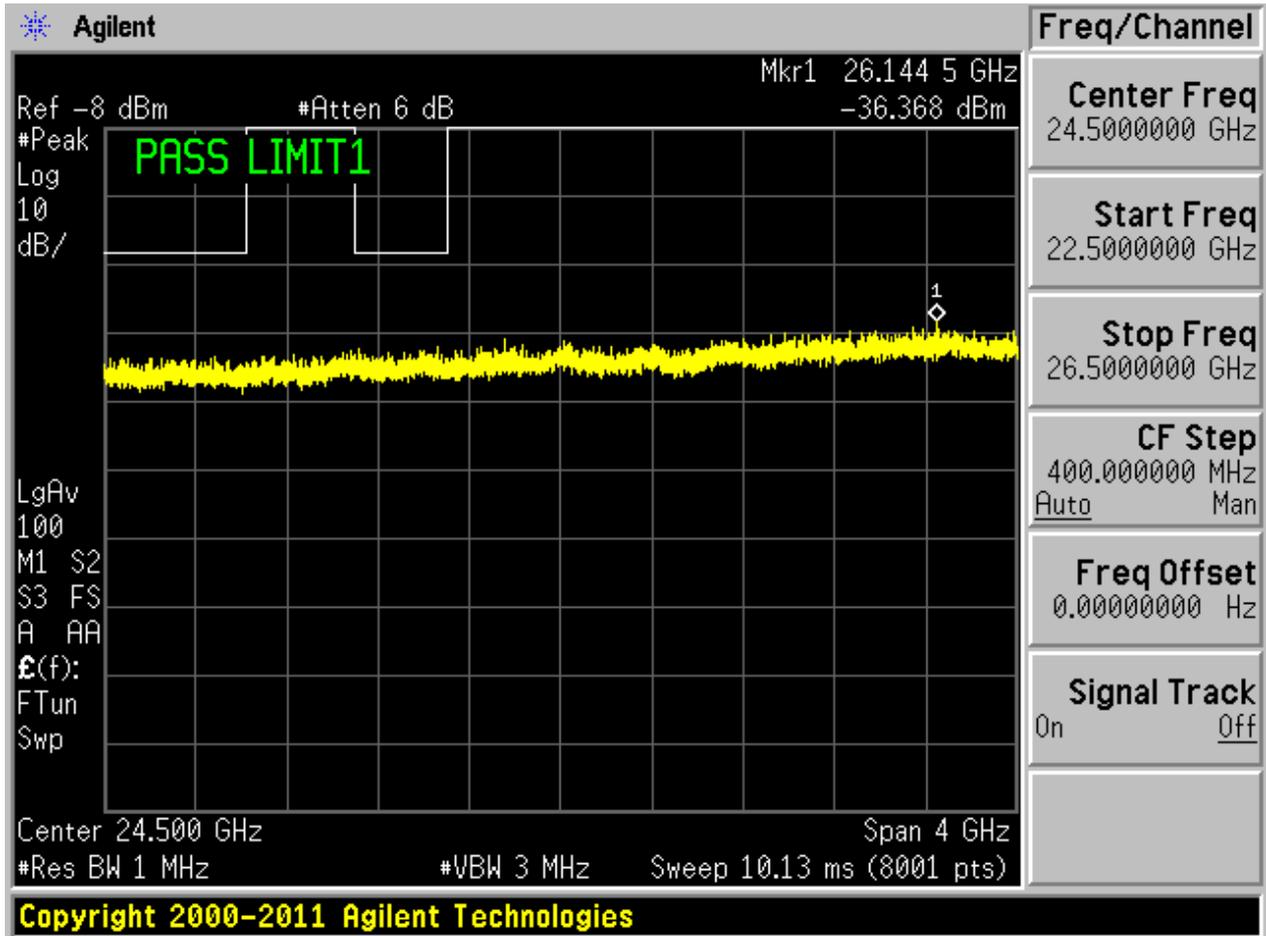




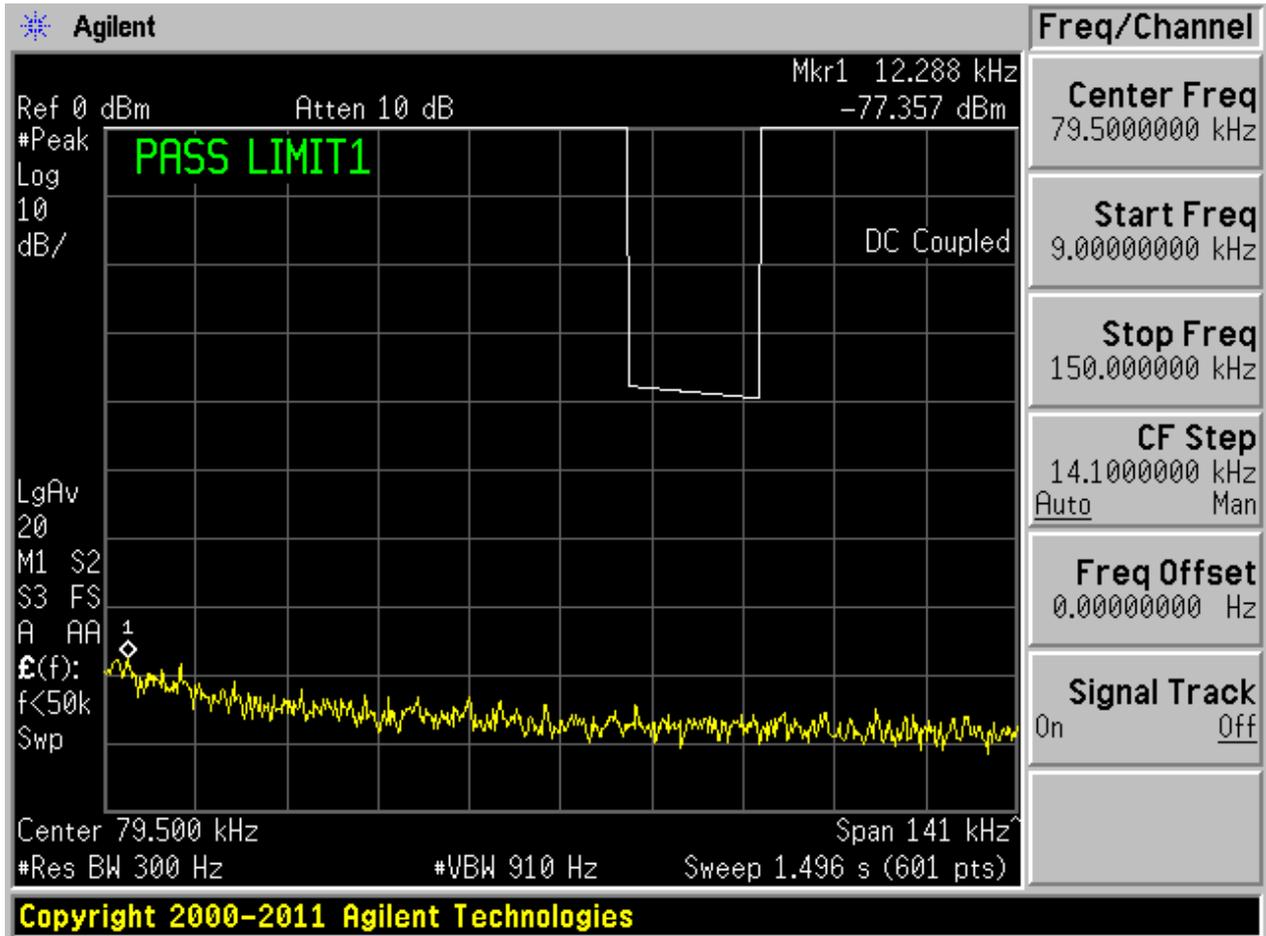


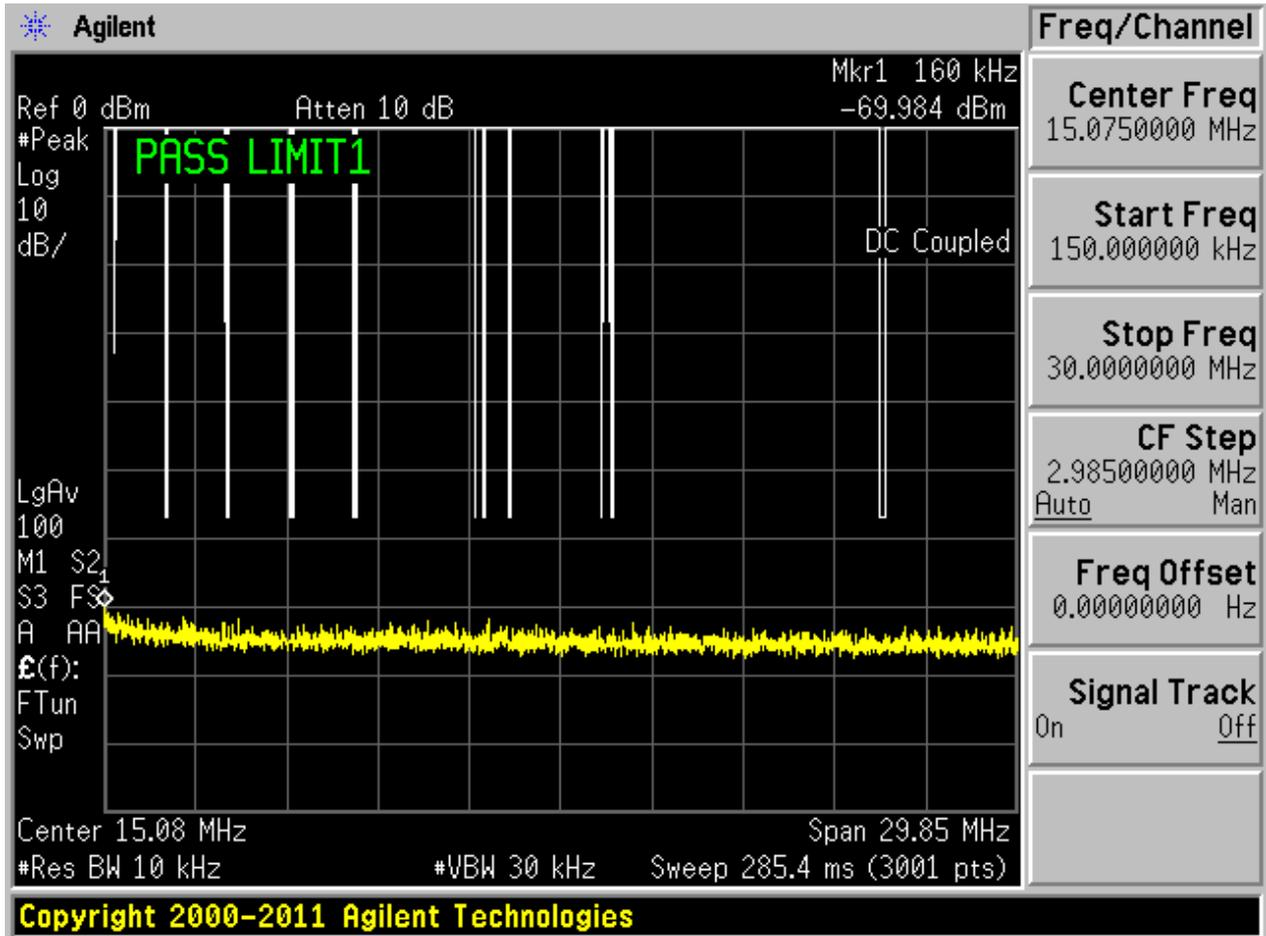
Copyright 2000-2011 Agilent Technologies

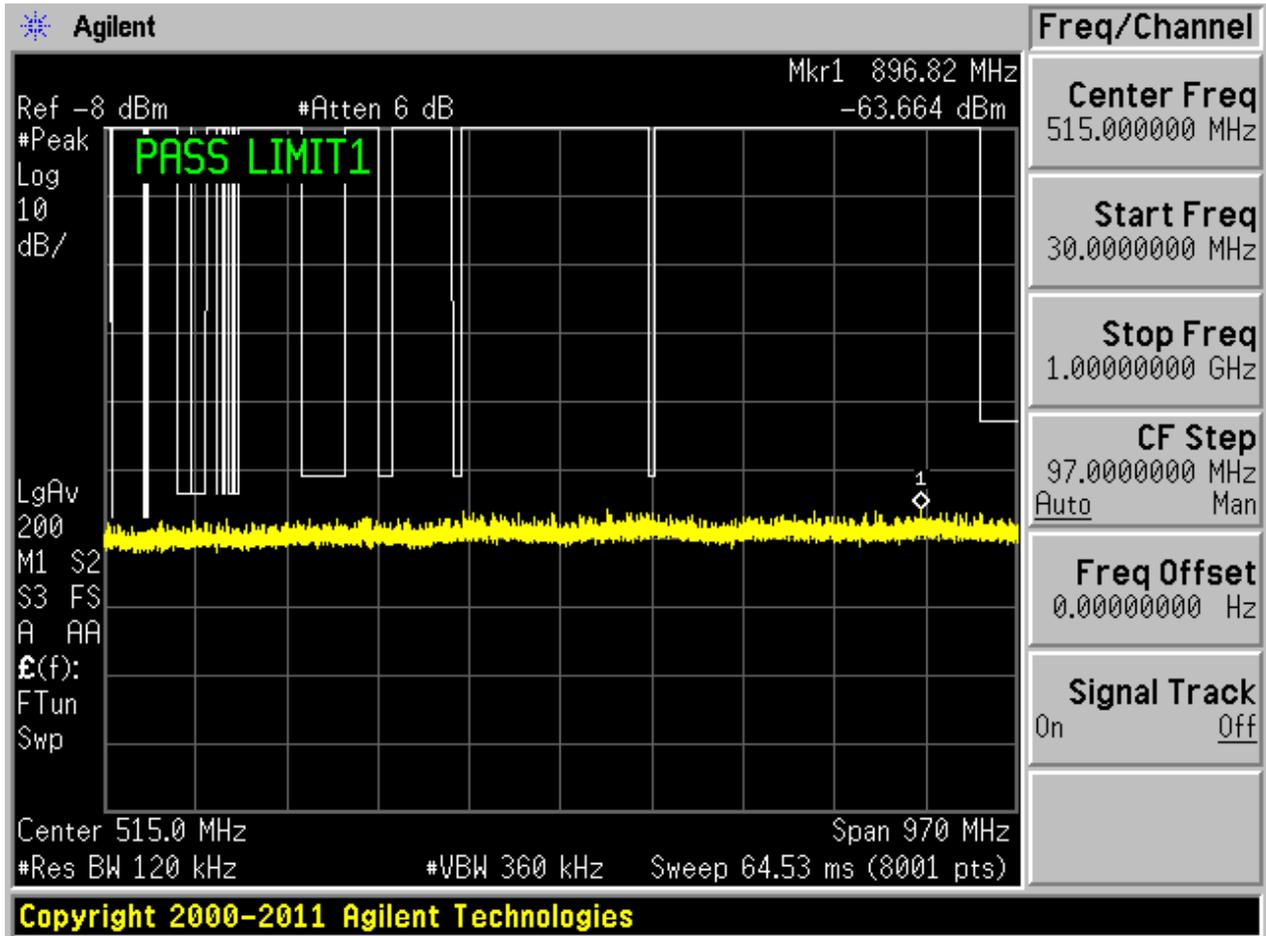


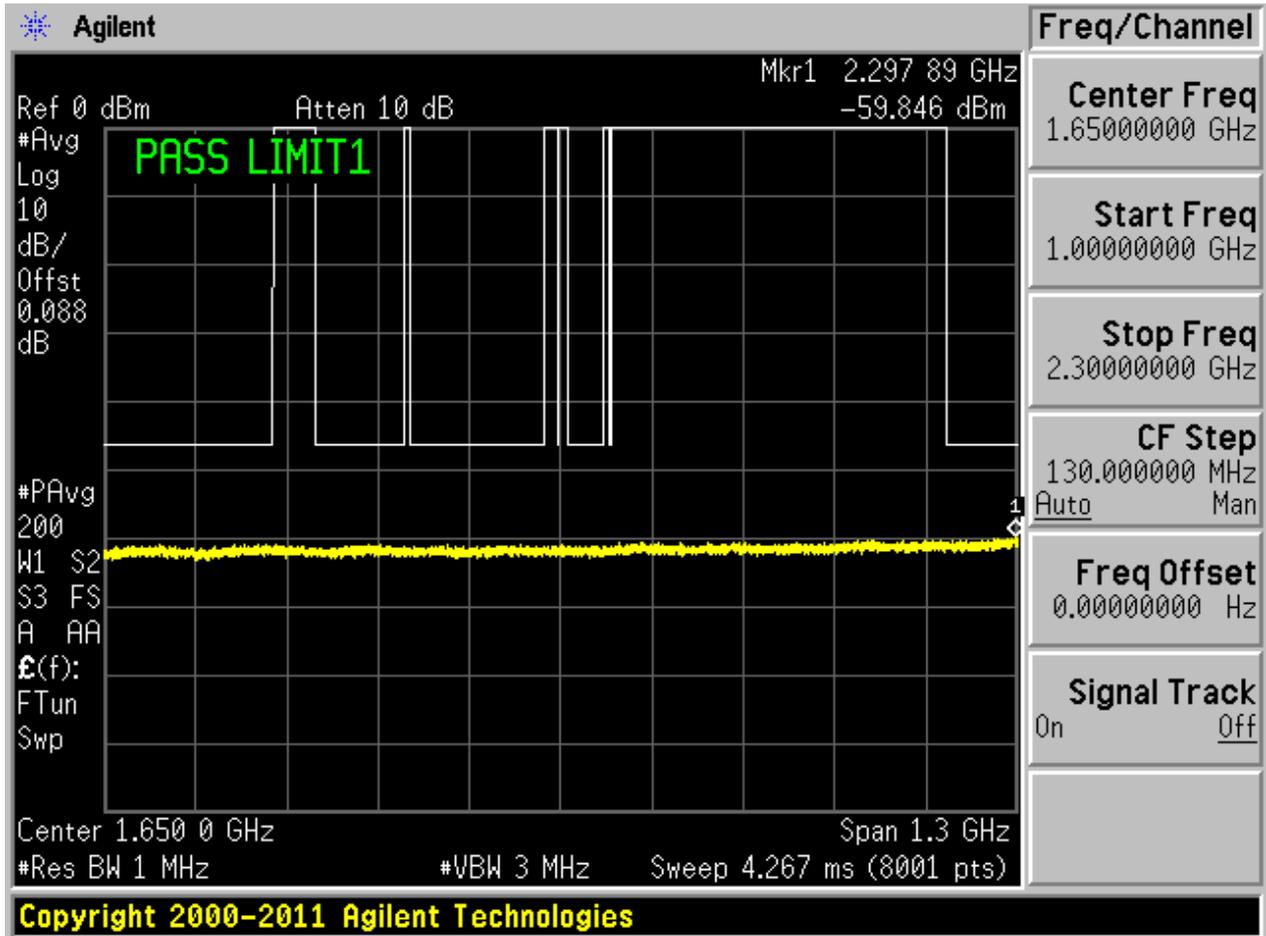


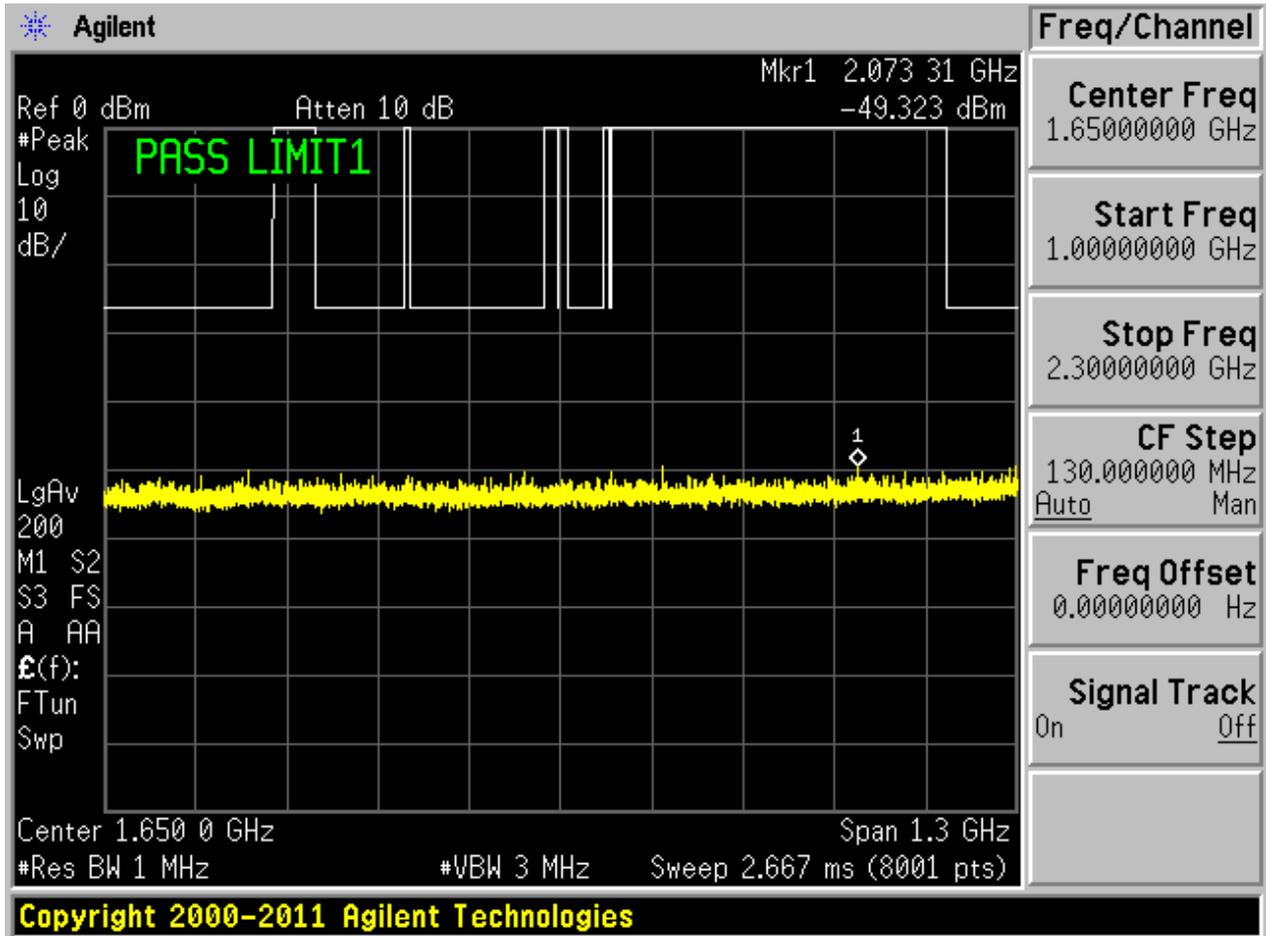
2.30.2 Ant 2 (Trace#2)

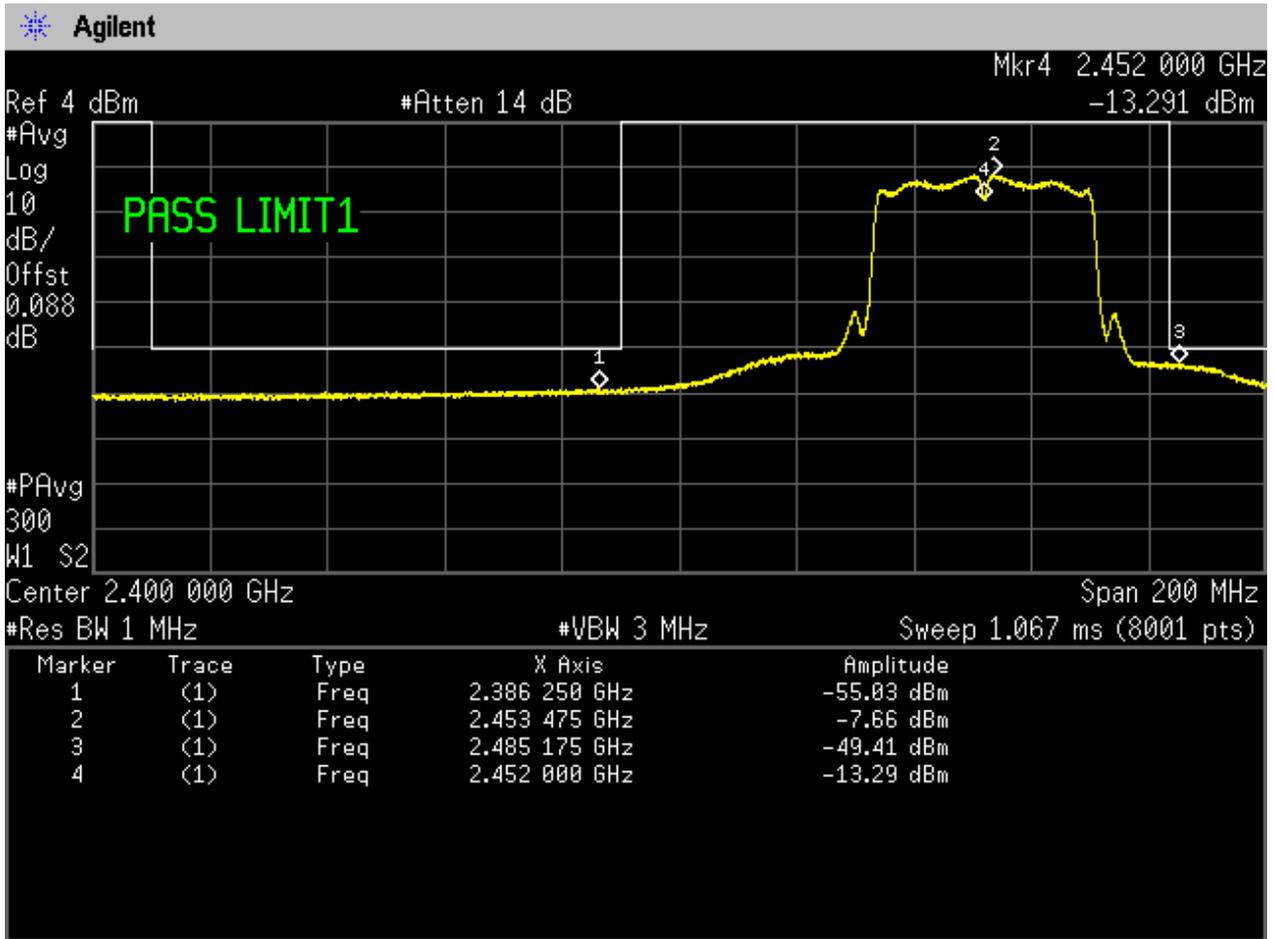


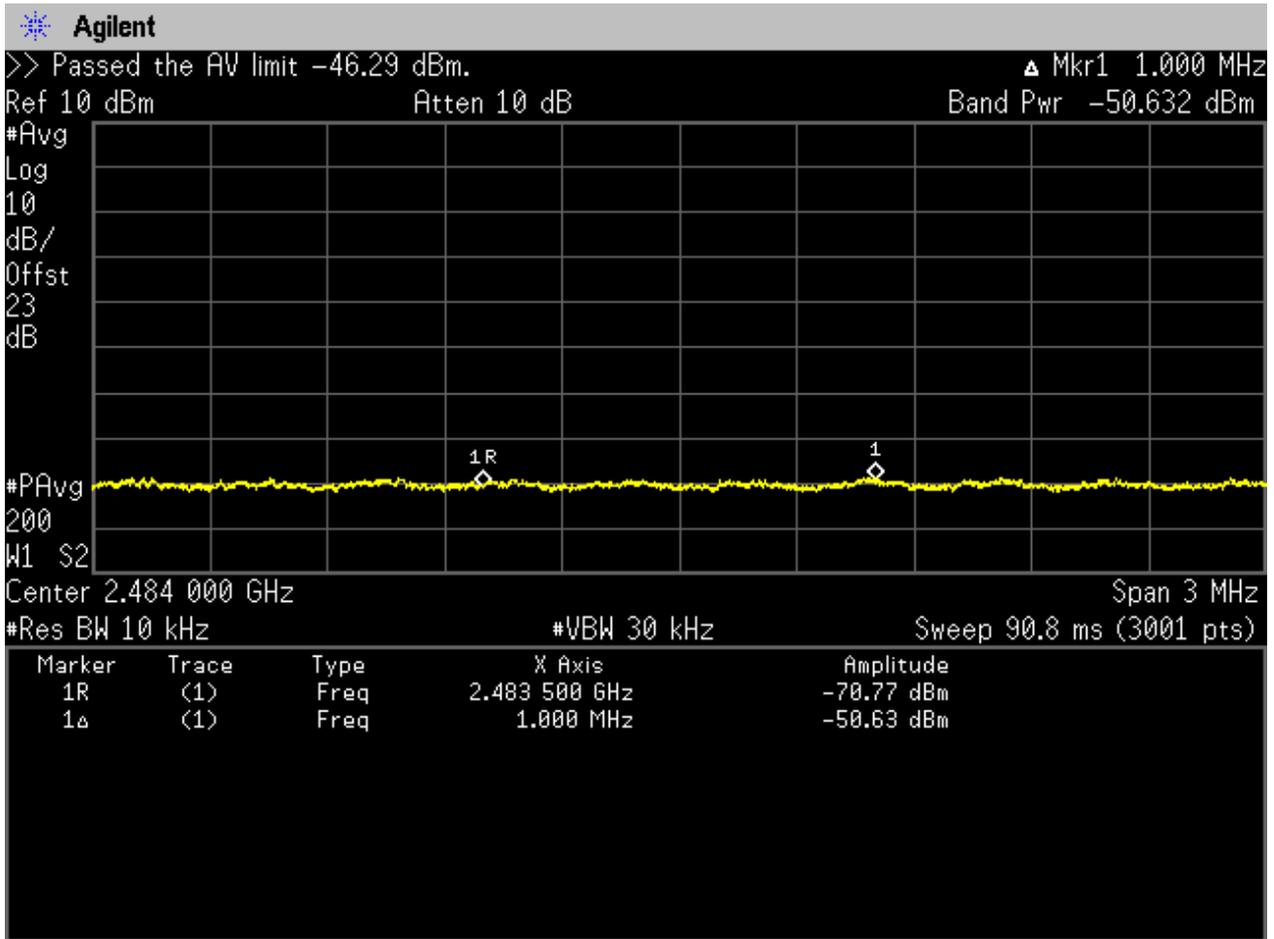


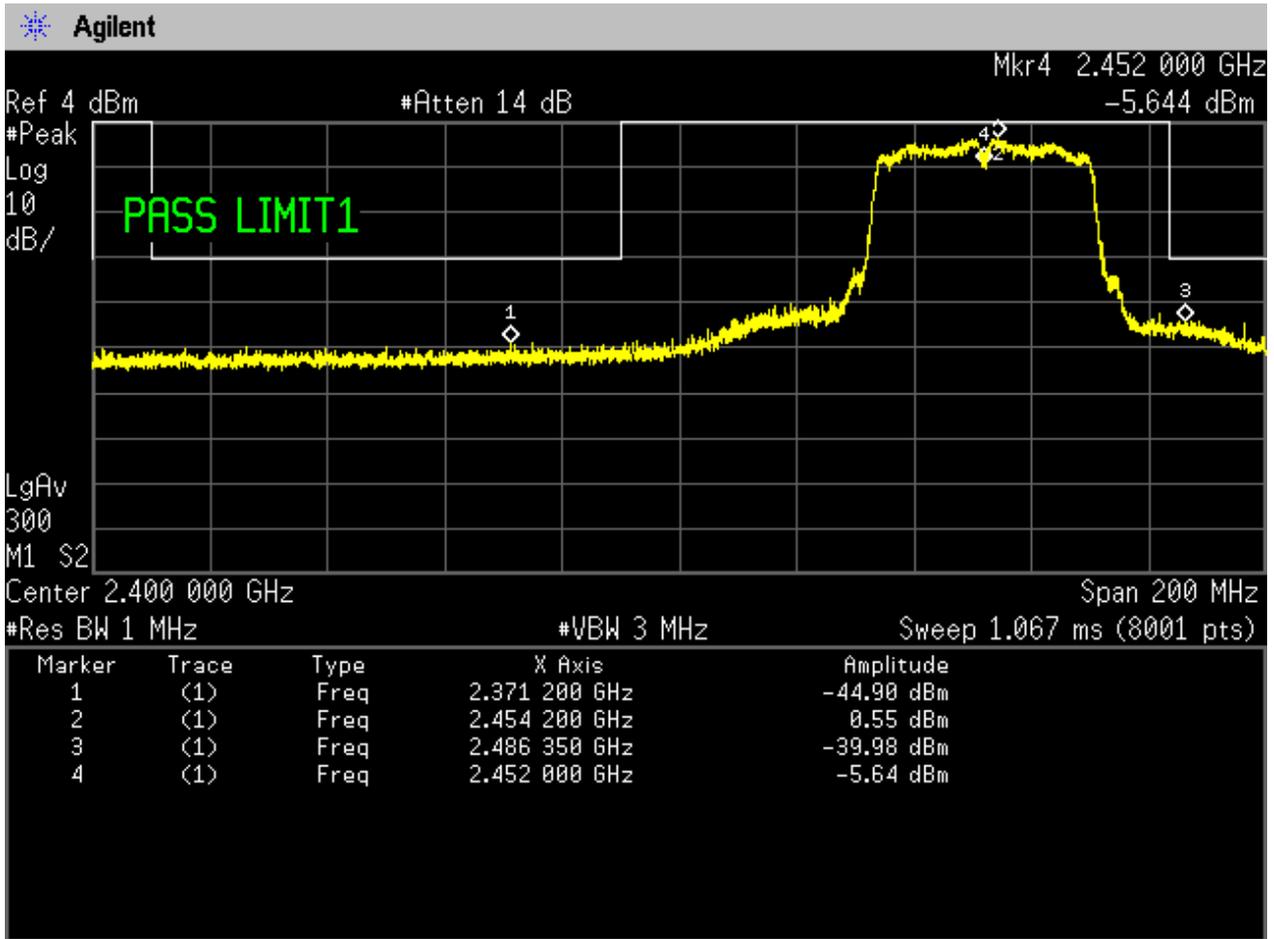


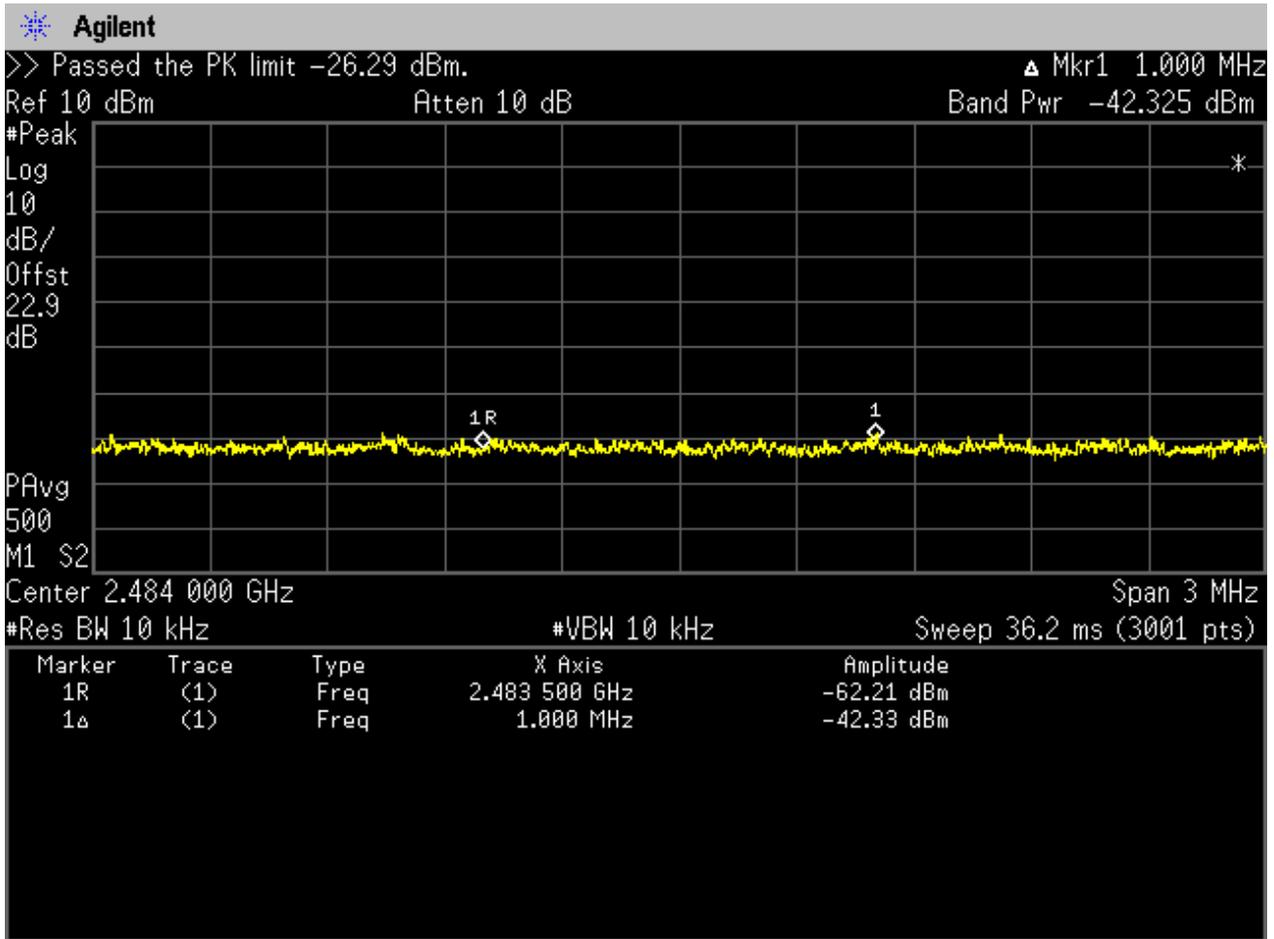


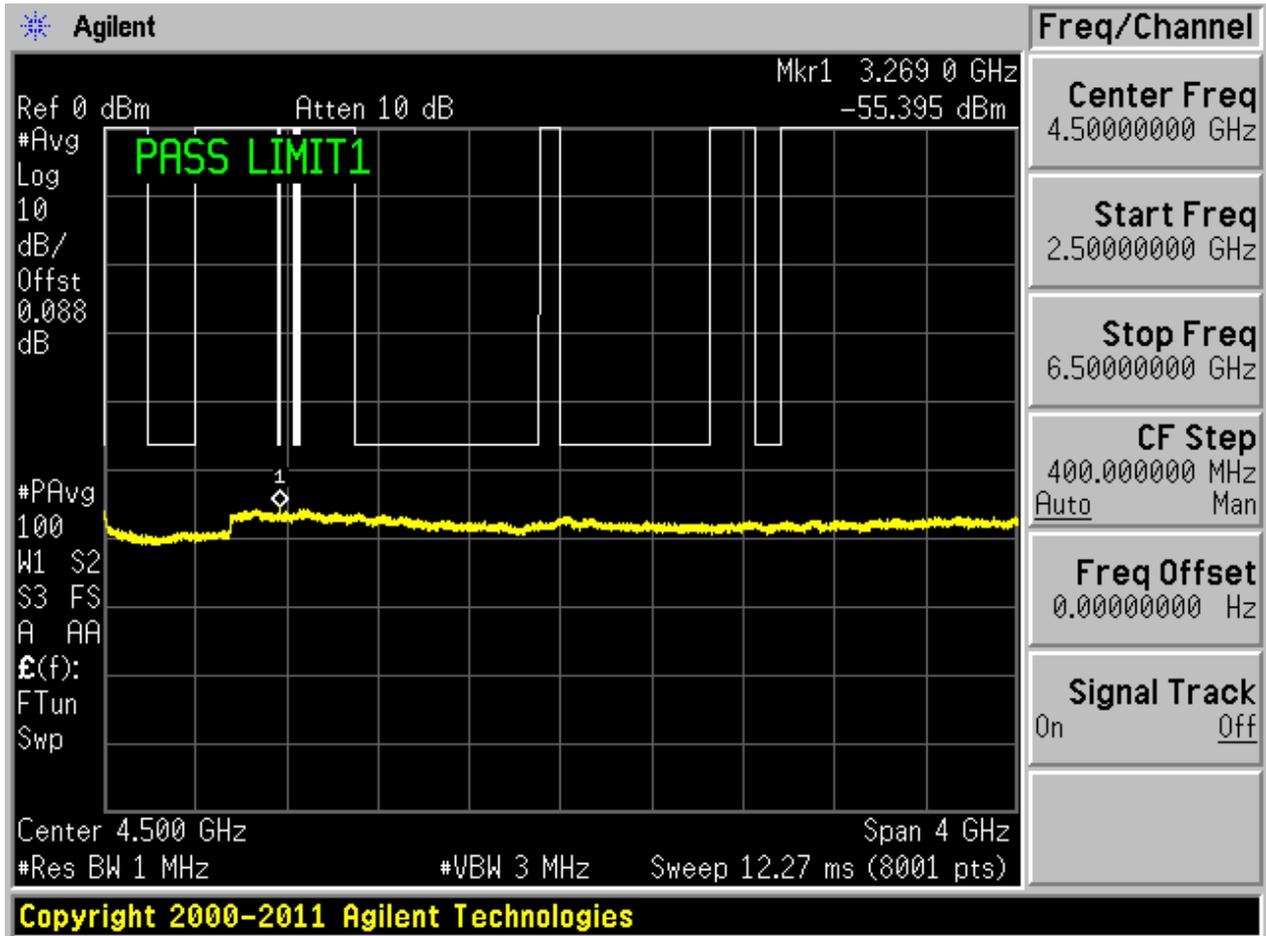


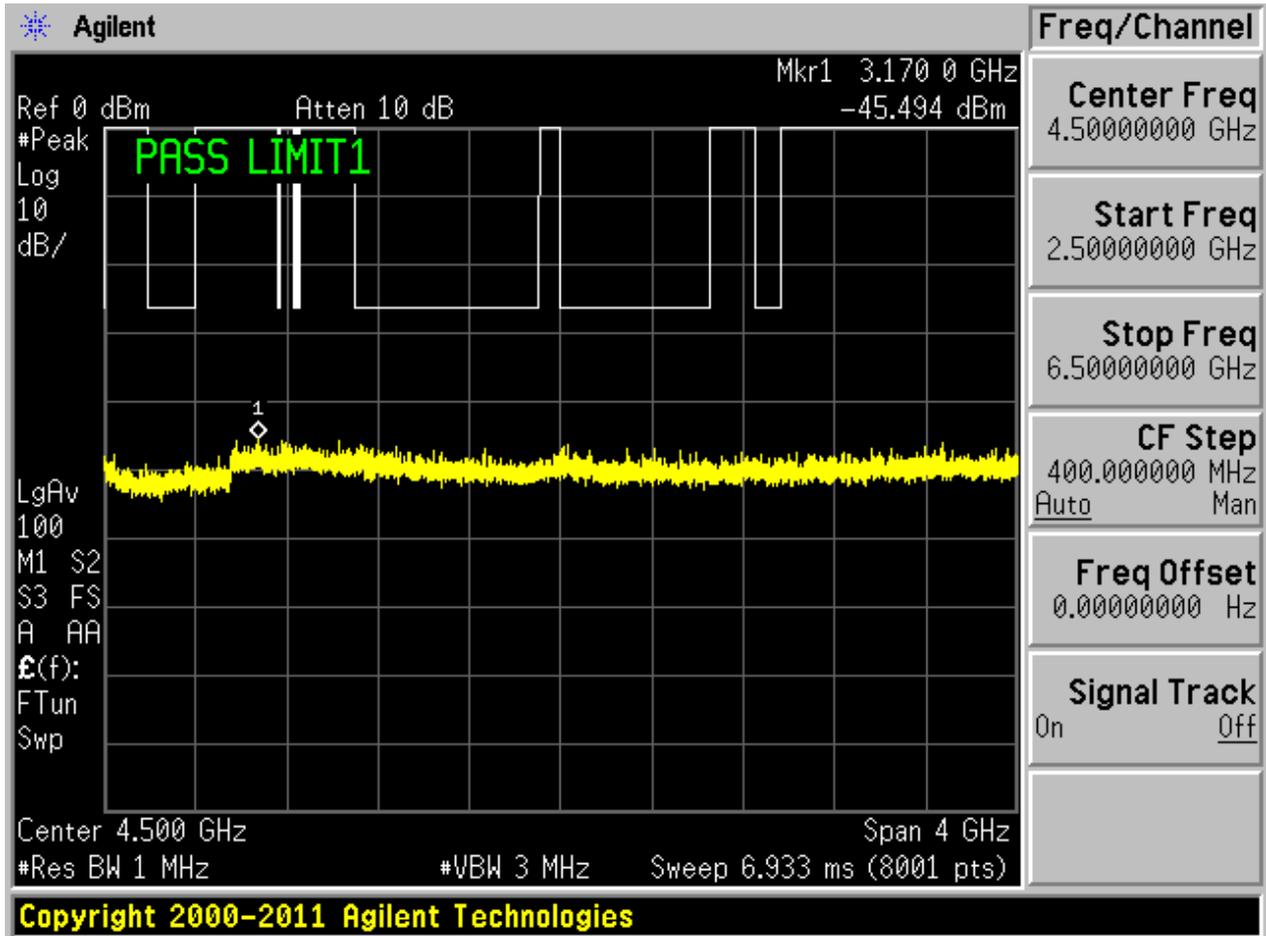


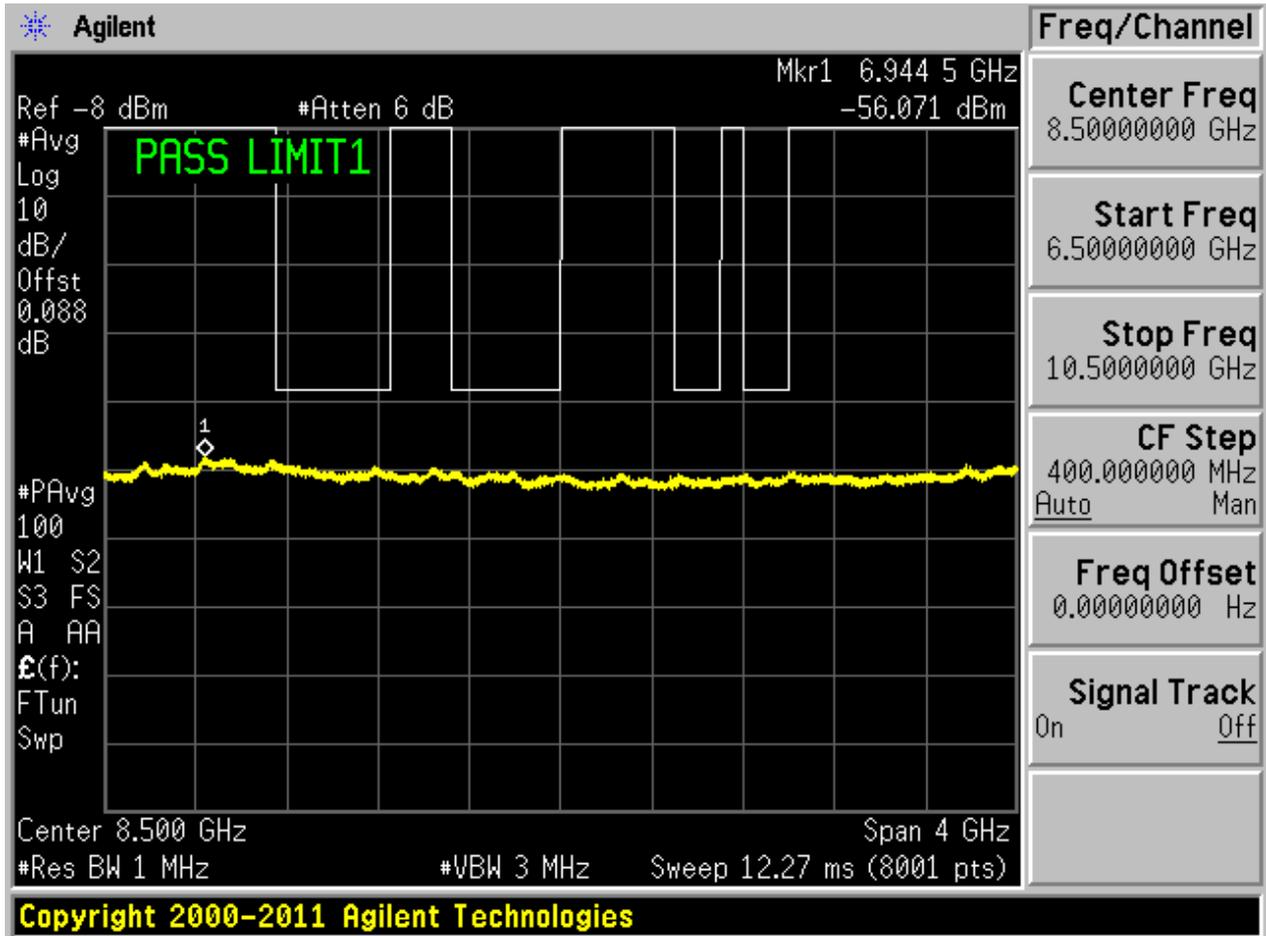


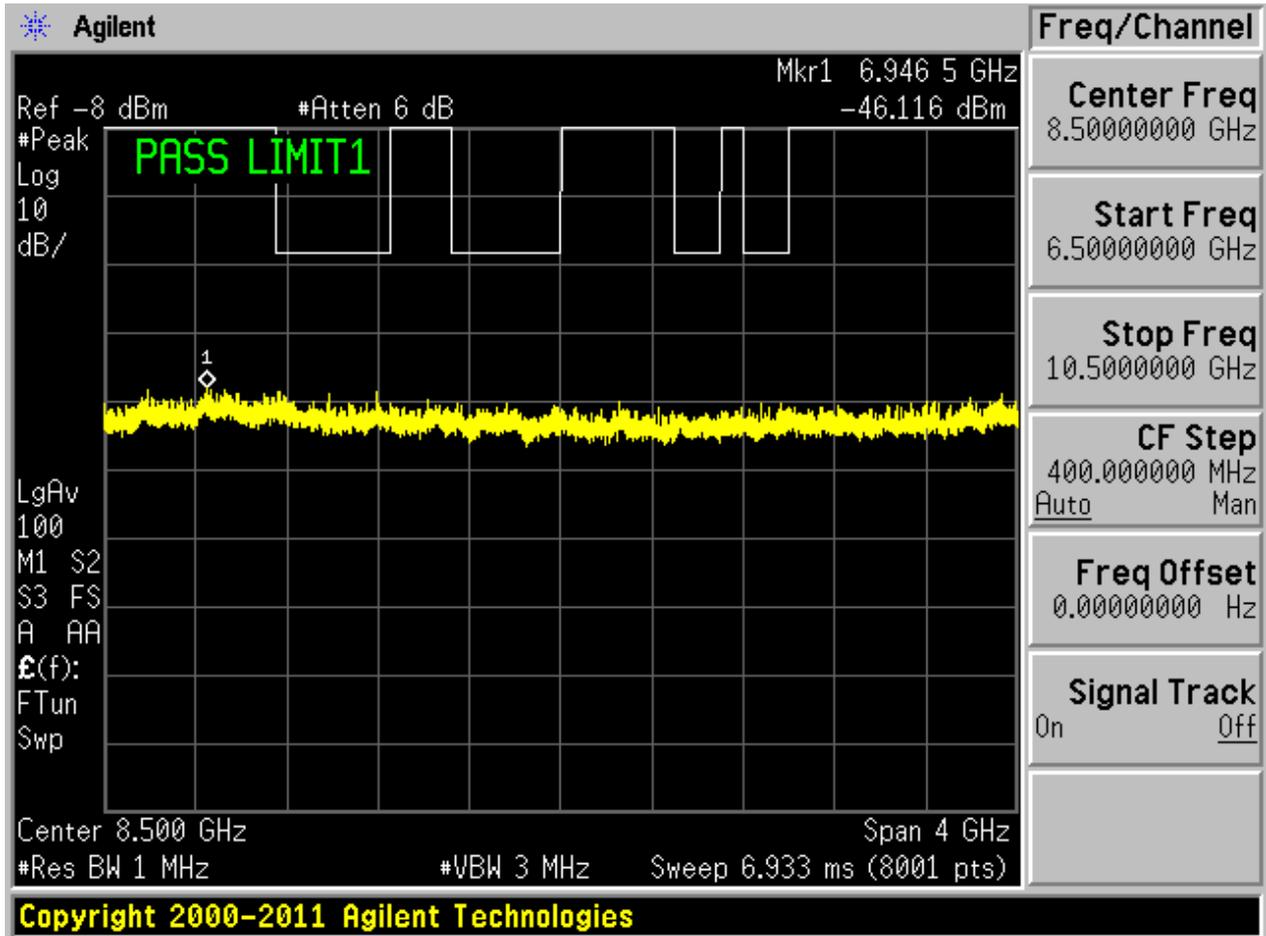


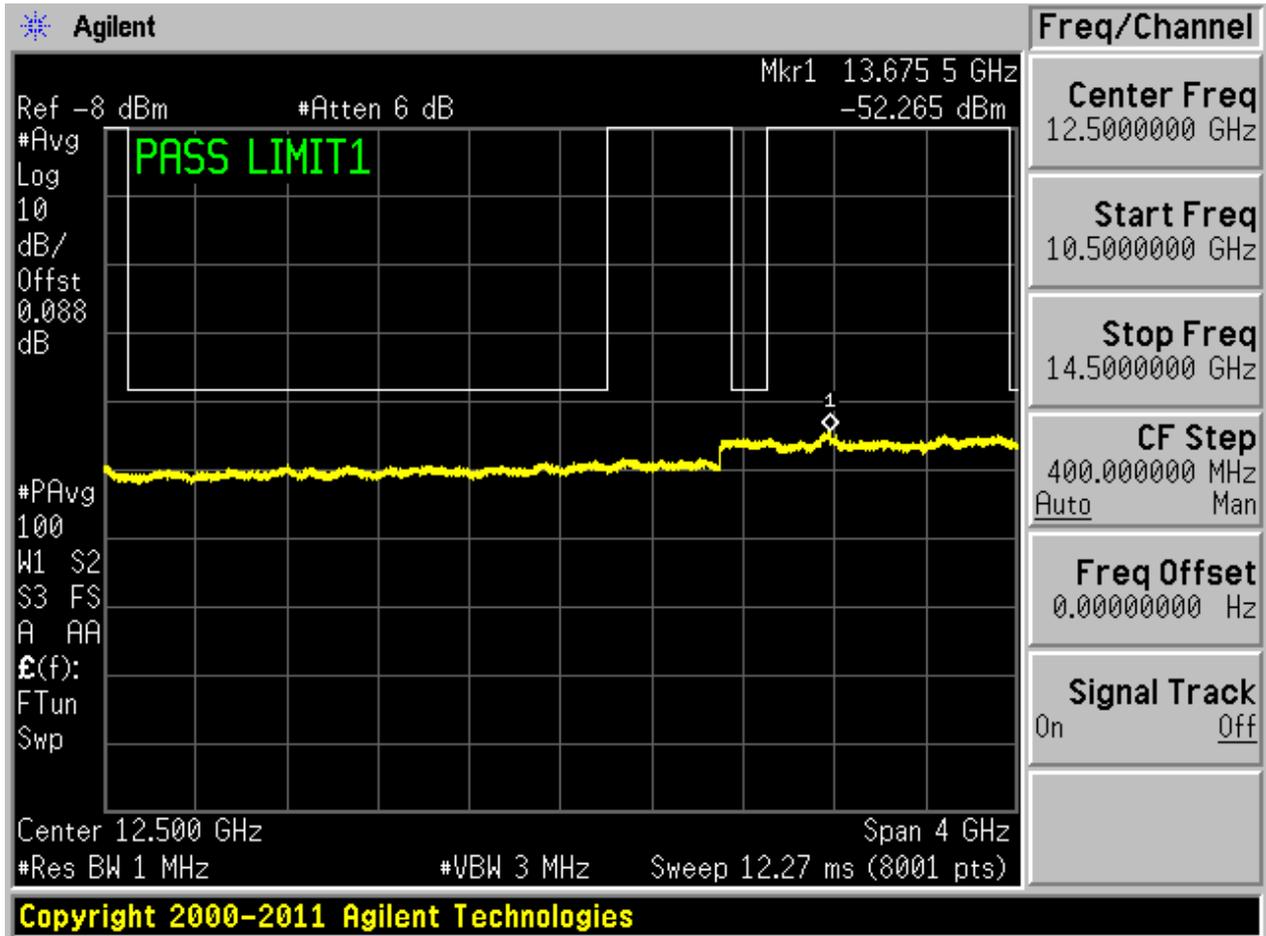


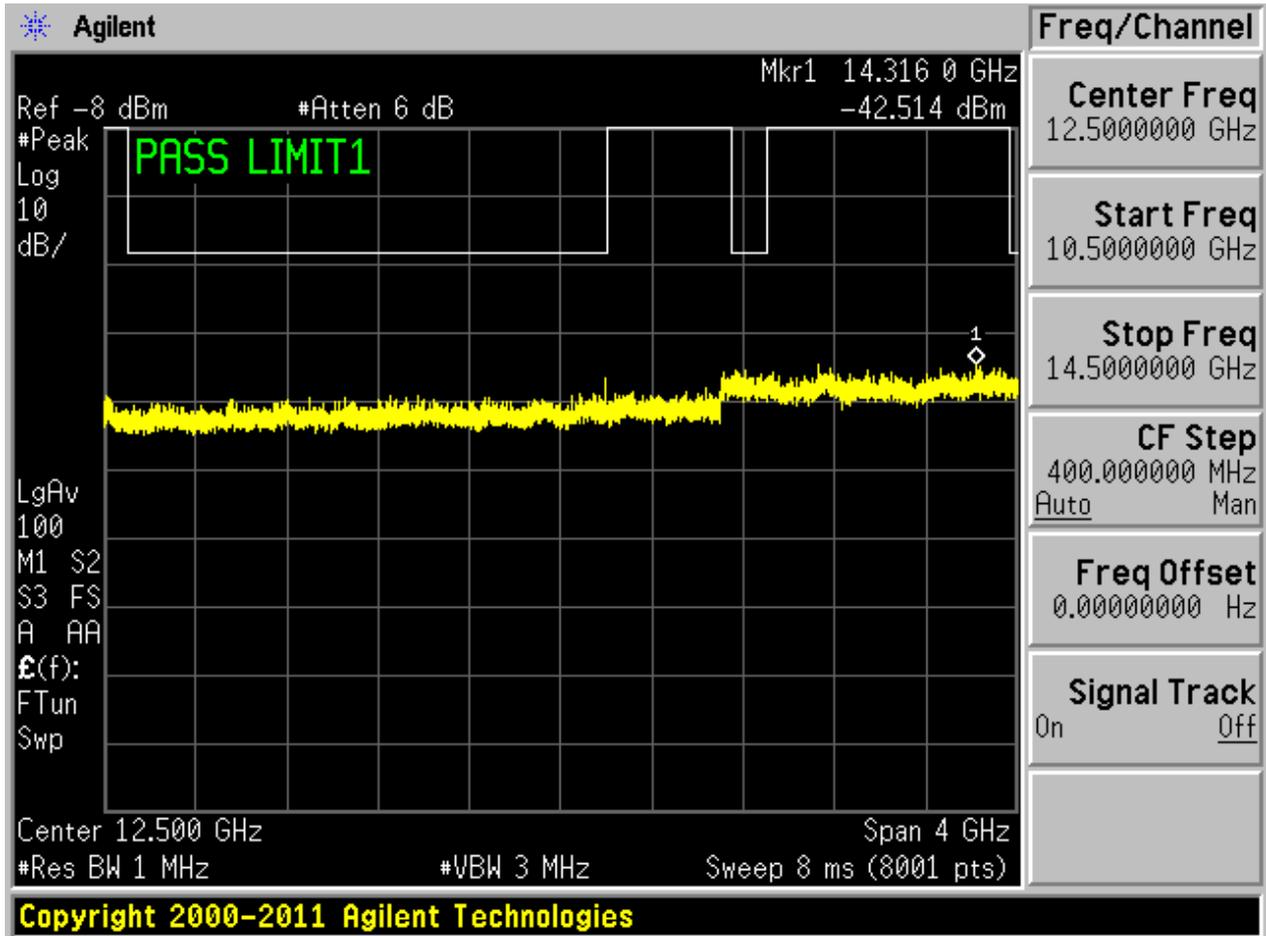


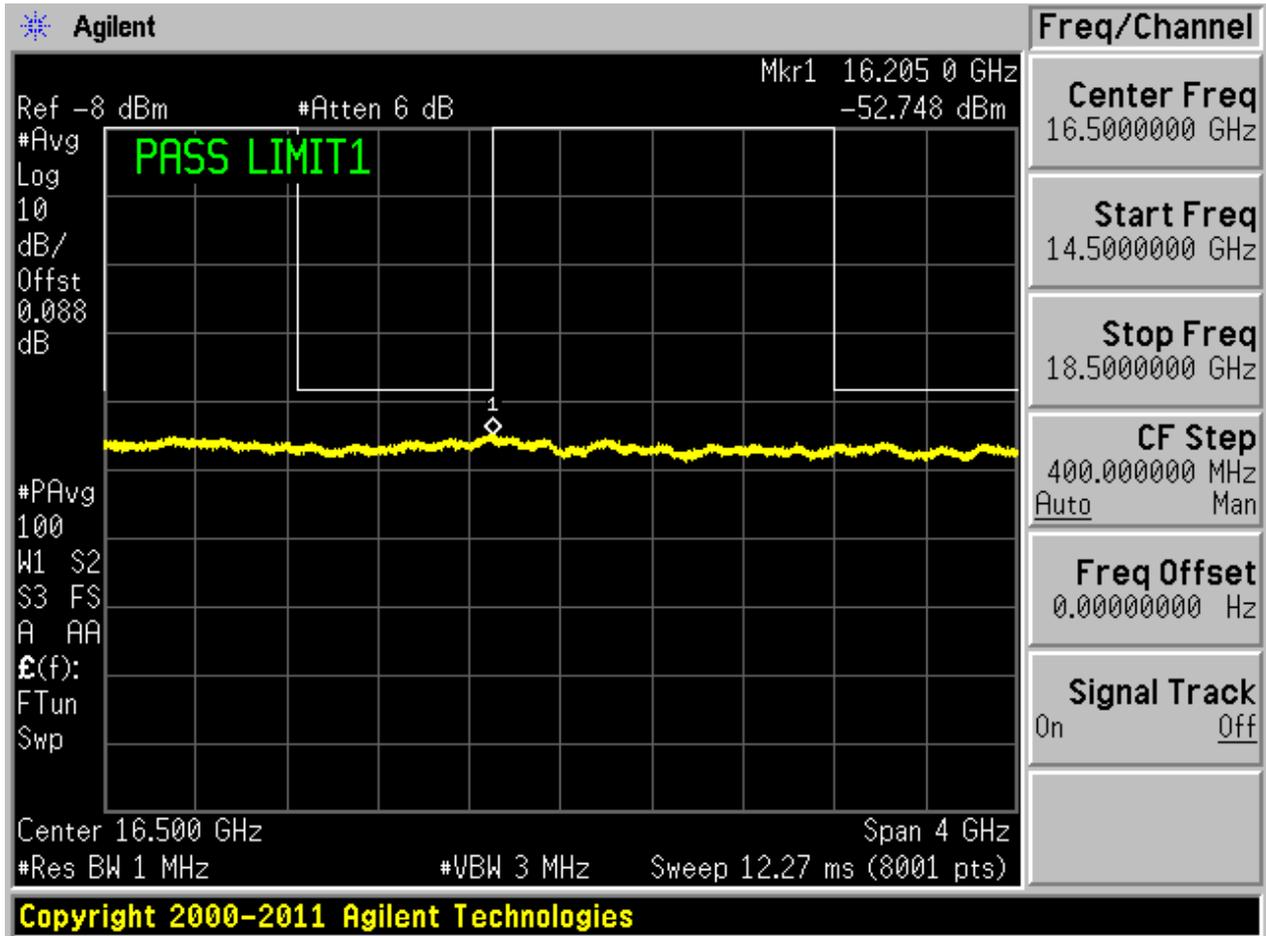


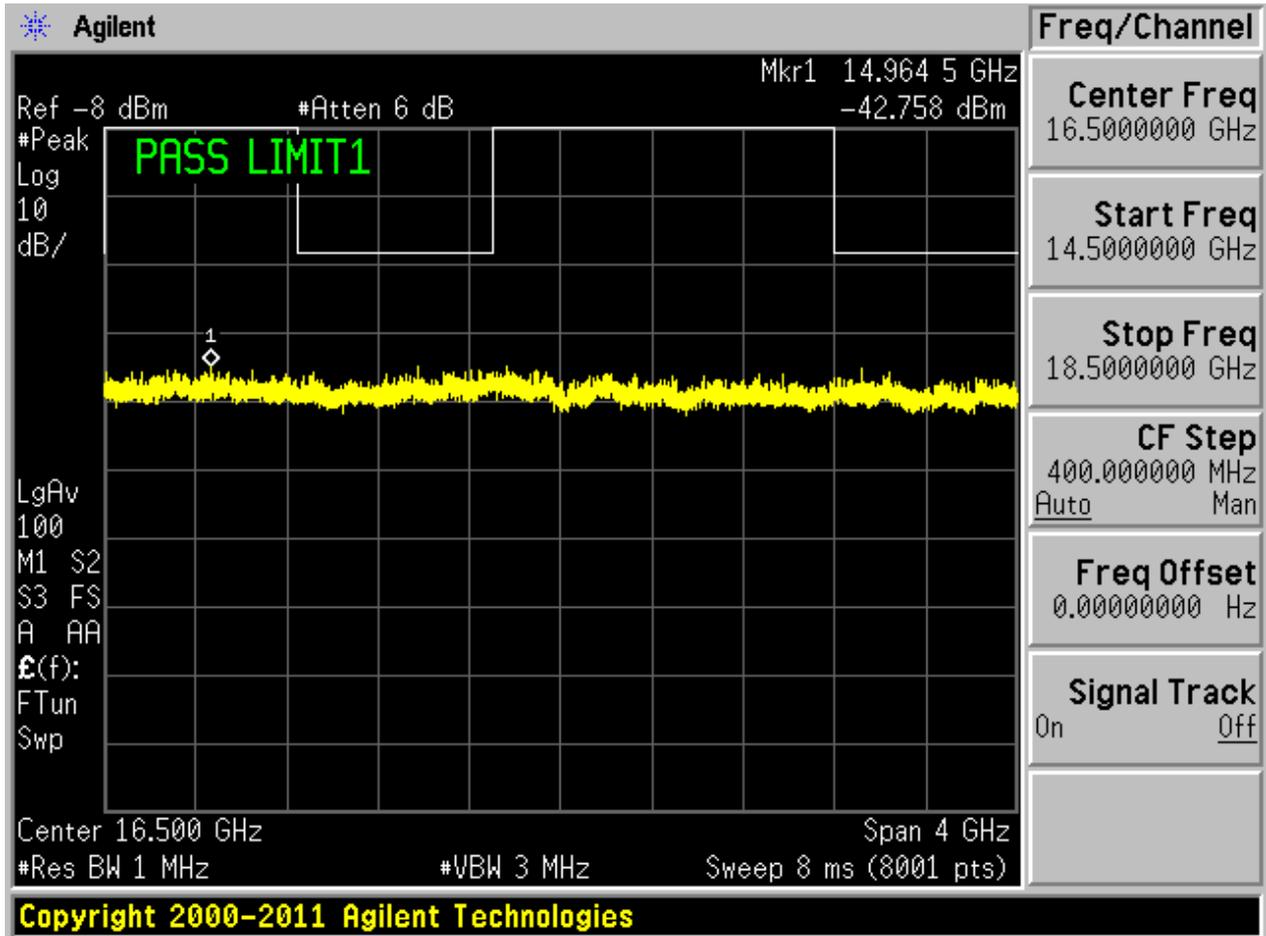


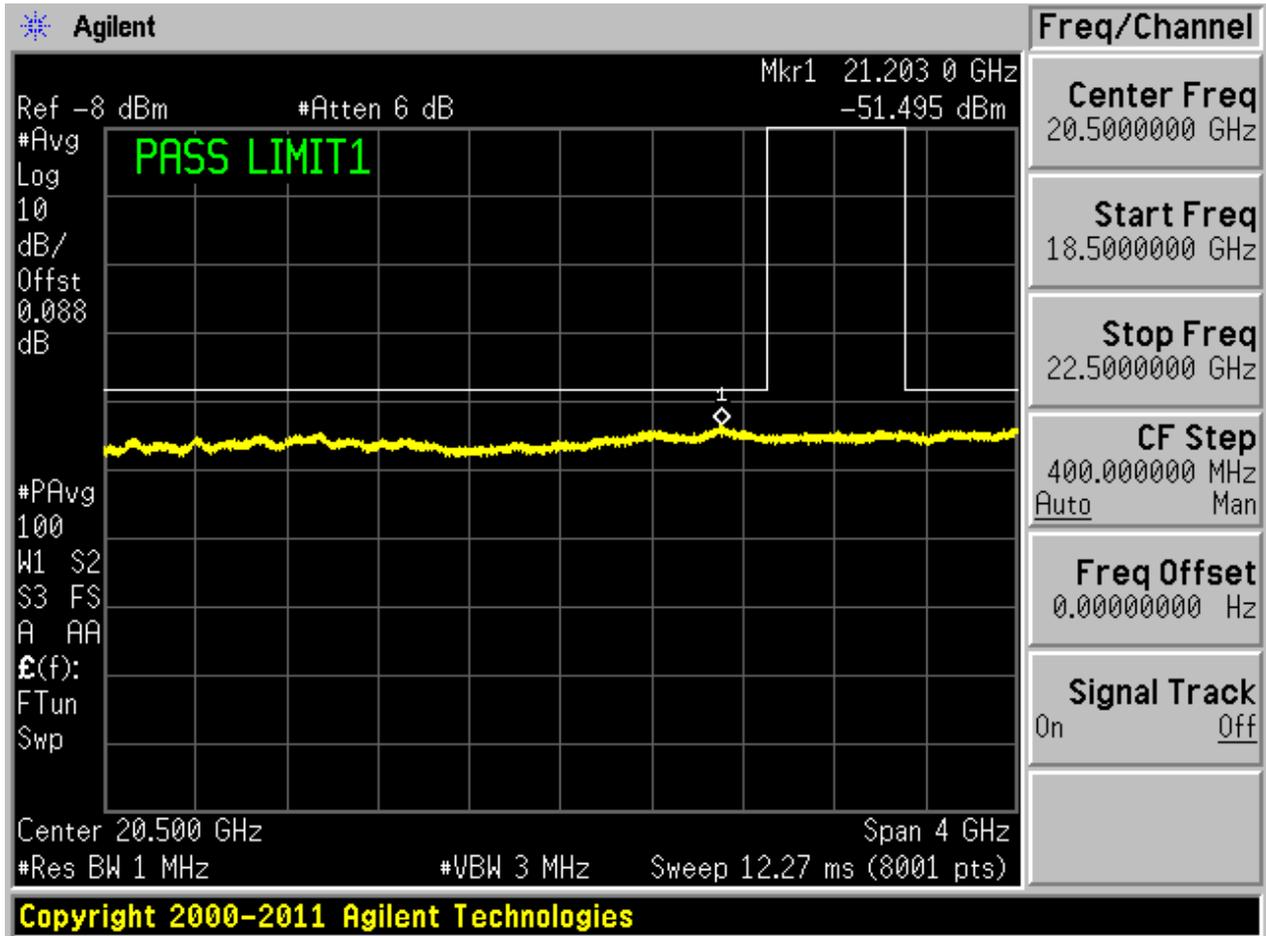


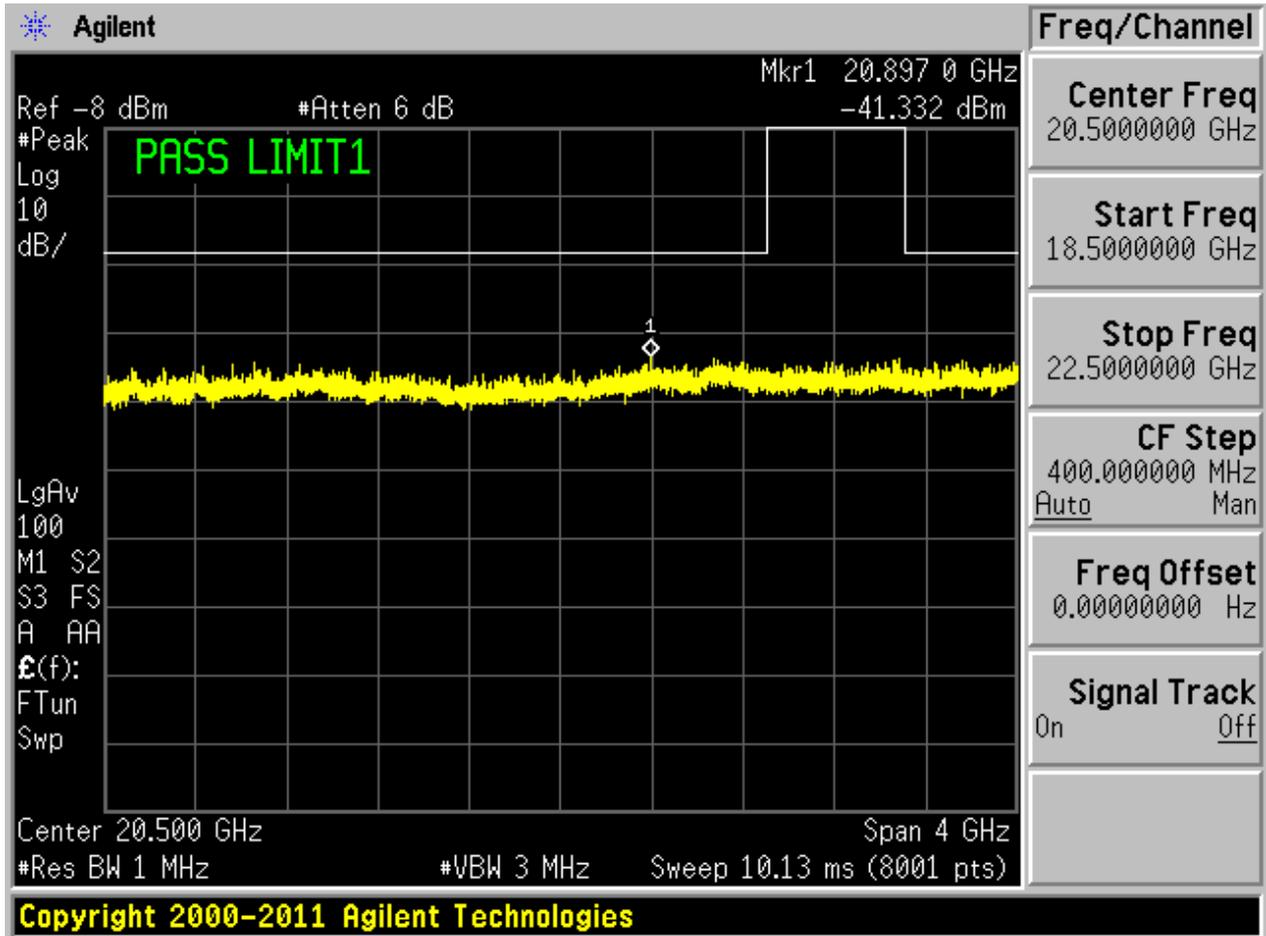


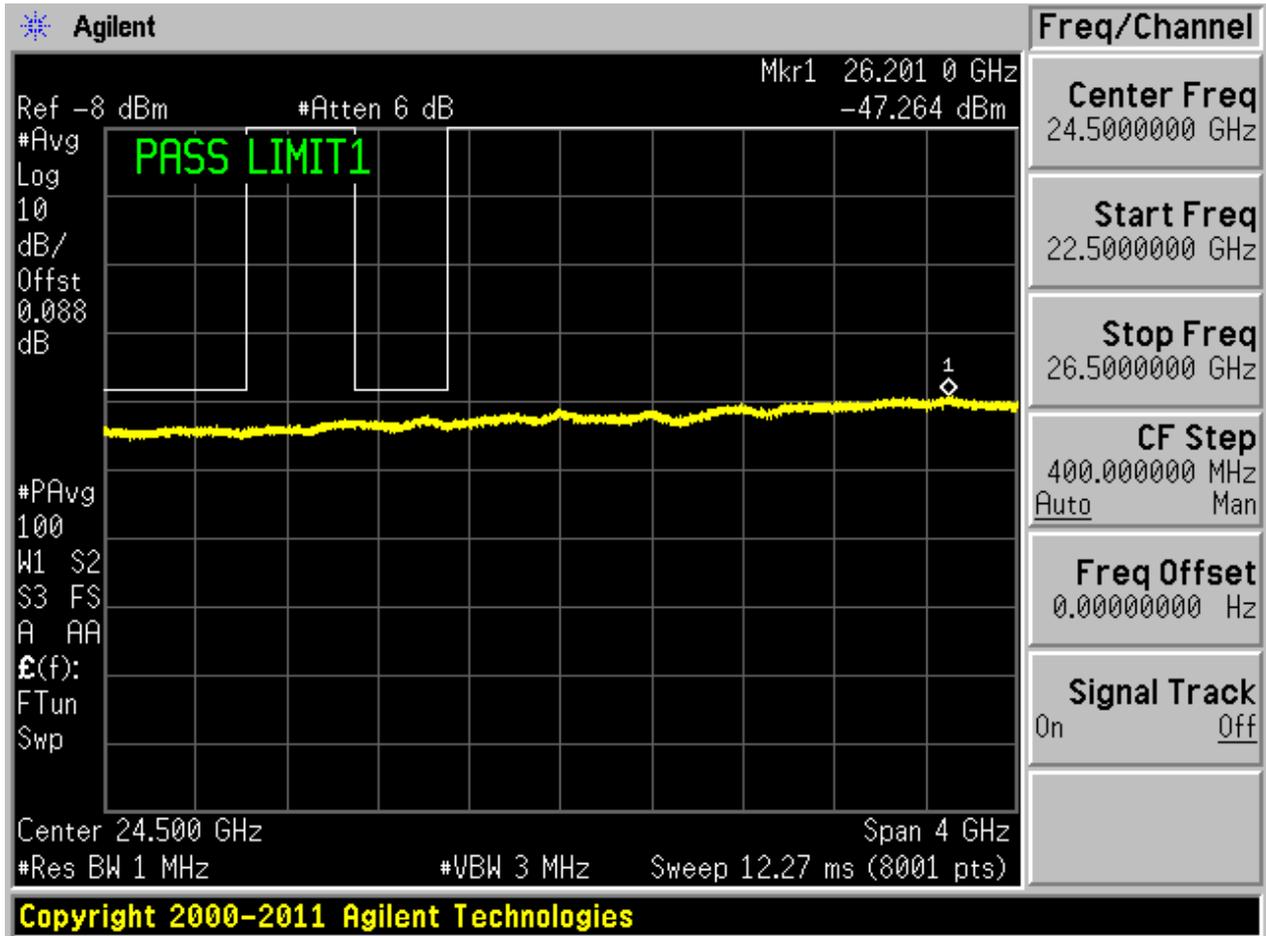


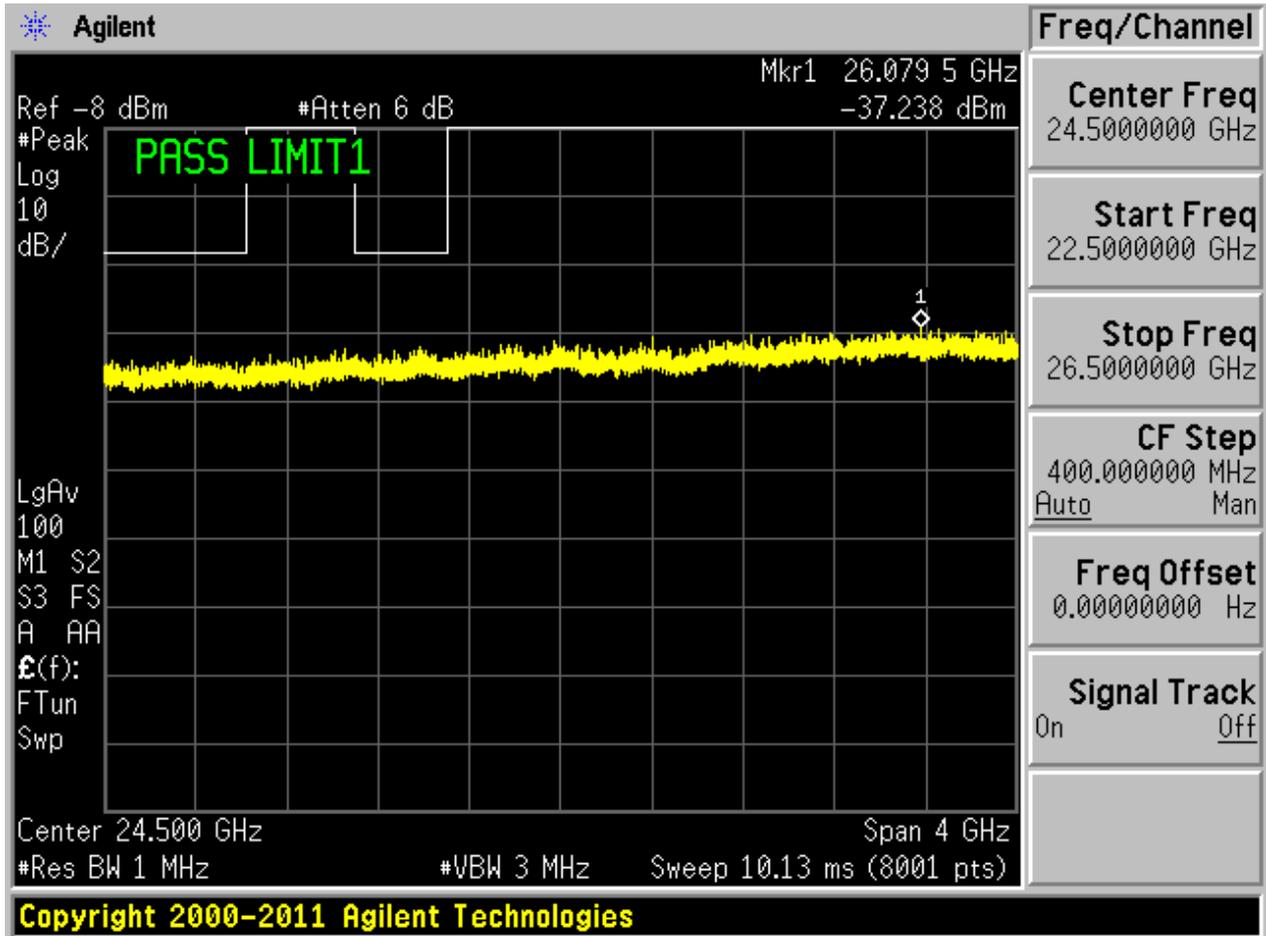












2.30.3 Trace#sum (if needed for final judgment)

(Not applicable)



Appendix F.2: Unwanted Emissions into Restricted Frequency Bands (Radiated)

The whole testing range is from “30 MHz to 26.5 GHz (10th harmonics)” is divided into 4 parts according to the test site settings, which are:

- (Part 1): Test range of “30 MHz to 1 GHz”,
- (Part 2): Test range of “1 GHz to 3 GHz”,
- (Part 3): Test range of “3 GHz to 18 GHz”, and
- (Part 4): Test range of “18 GHz to 26.5 GHz”.

For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at all chains to get a final result, due to the radiated measurement method. The result is the directly measured sum of each chain.

In this Appendix, only the test results and plots under the worst case can be reported. In the result table, the “< Limit” denotes that “Not found obvious spikes or see marked spikes on plots and listed emissions records”.

1 Result Table

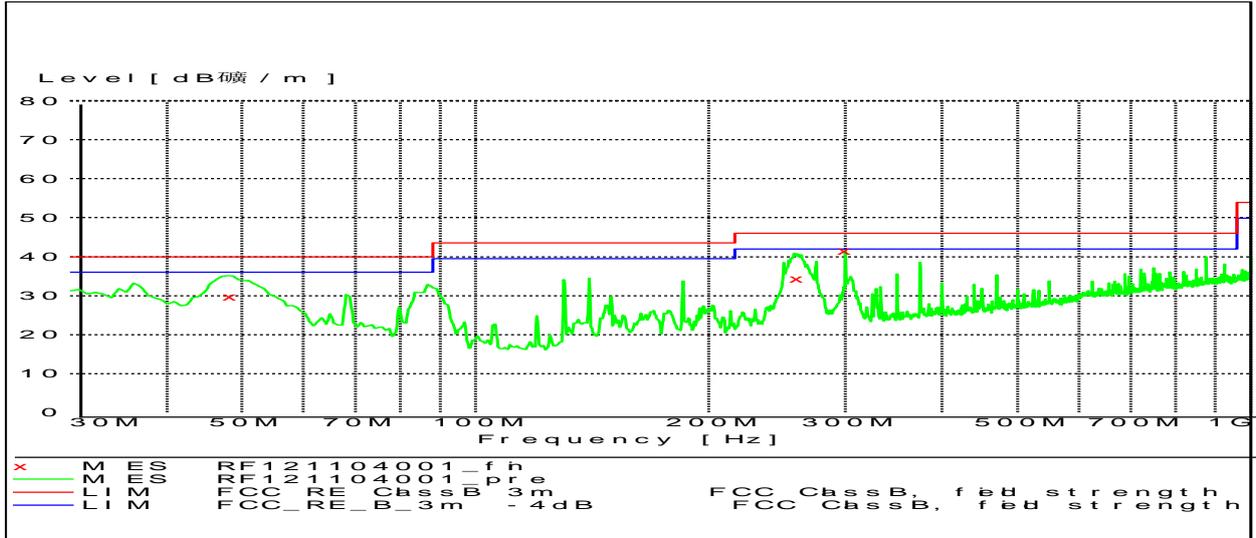
EUT Placement	Test Range	EUT Conf.	Emissions	Verdict
Flatwise	30 MHz to 1 GHz	Worst Case (11B/1_B@1)	< Limit	Pass
		Worst Case (11B/1_B@2)	< Limit	Pass
	1 GHz to 3 GHz	Worst Case (11B/1_B@1)	< Limit	Pass
		Worst Case (11B/1_B@2)	< Limit	Pass
		Worst Case (11B/1_M@1)	< Limit	Pass
		Worst Case (11B/1_M@2)	< Limit	Pass
		Worst Case (11B/1_T@1)	< Limit	Pass
		Worst Case (11N20/0_T@1)	< Limit	Pass
		Worst Case (11N20/0_T@2)	< Limit	Pass
		3 GHz to 18 GHz	Worst Case (11B/1_B@2)	< Limit
	Worst Case (11B/1_M@2)		< Limit	Pass
		Worst Case (11B/1_T@1)	< Limit	Pass
Worst Case (11B/1_T@2)		< Limit	Pass	
	18 GHz to 26.5 GHz	Worst Case (11N20/0_M@2)	< Limit	Pass
		Worst Case (11B/1_T@1)	< Limit	Pass

2 Result Plot

2.1 EUT Placement: Flatwise

2.1.1 Test range of "30 MHz to 1 GHz"

2.1.1.1 Worst Case (11B/1_B@1)



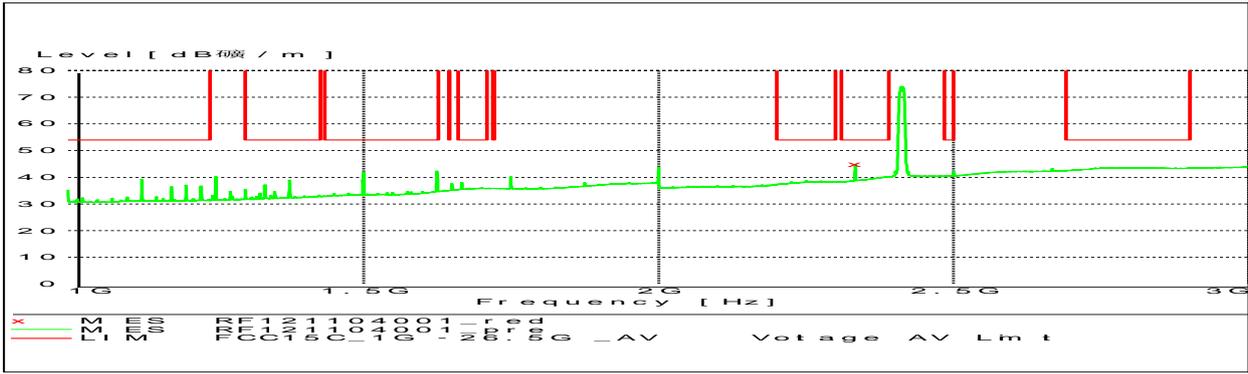
MEASUREMENT RESULT: "RF121104001_fin"

2012-11-4 11:33

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Det.	Height	Azimuth cm	Polarization deg
48.300000	29.70	-14.8	40.0	10.3	QP	102.0	211.00	VERTICAL
259.980000	34.40	-9.6	46.0	11.6	QP	135.0	227.00	HORIZONTAL
300.000000	41.60	-8.9	46.0	4.4	QP	102.0	23.00	HORIZONTAL

2.1.2 Test range of "1 GHz to 3 GHz"

2.1.2.1 Worst Case (11B/1_B@1)

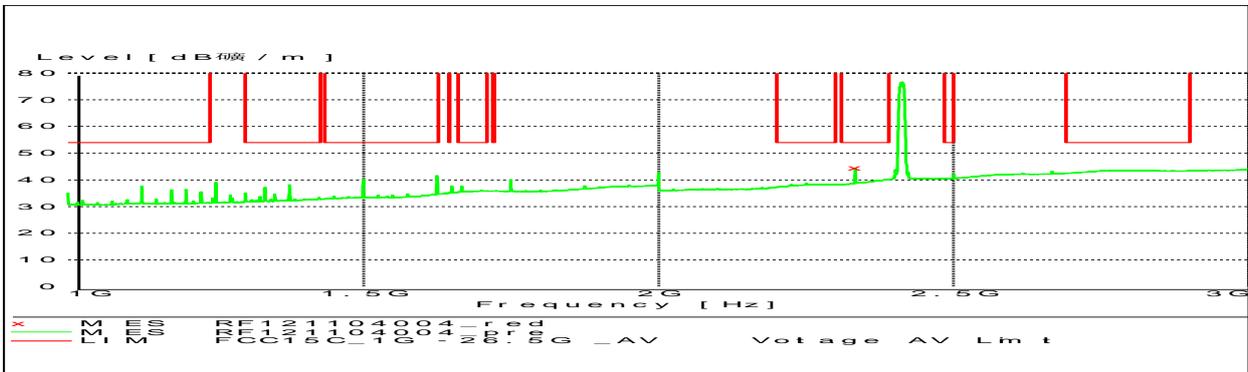


MEASUREMENT RESULT: "RF121104001_red"

2012-11-4 13:51

Frequency MHz	Level dBµV/m	Transd	Limit dB	Margin dBµV/m	Det. dB	Height cm	Azimuth deg	Polarization
2333.280000	44.80	0.3	54.0	9.2	---	200.0	270.00	VERTICAL

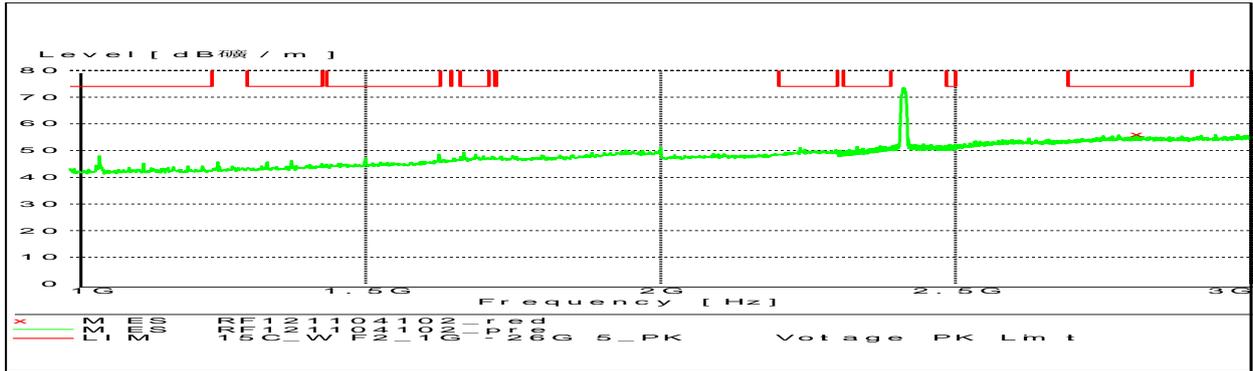
2.1.2.2 Worst Case (11B/1_B@2)



MEASUREMENT RESULT: "RF121104004_red"

2012-11-4 14:16

Frequency MHz	Level dBµV/m	Transd	Limit dB	Margin dBµV/m	Det. dB	Height cm	Azimuth deg	Polarization
2333.280000	44.40	0.3	54.0	9.6	---	200.0	270.00	VERTICAL

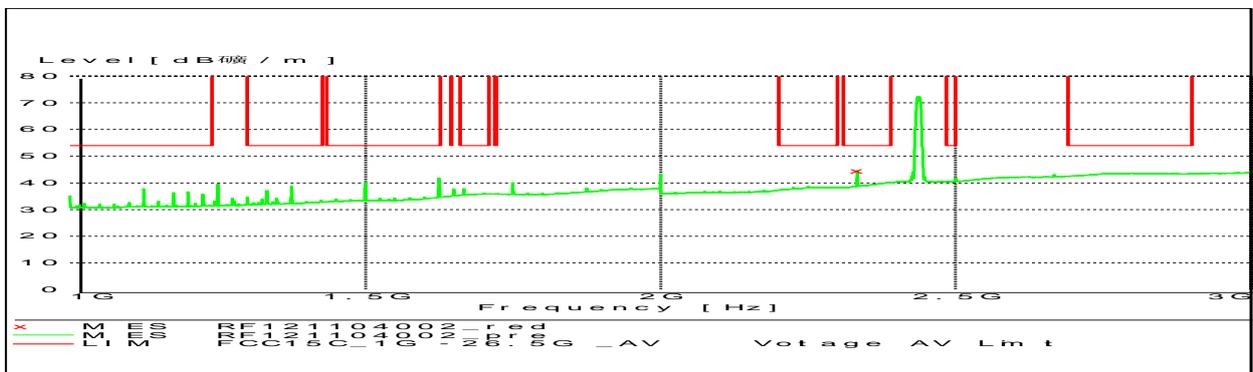


MEASUREMENT RESULT: "RF121104102_red"

2012-11-4 15:36

Frequency MHz	Level dBµV/m	Transd	Limit dB	Margin dBµV/m	Det.	Height	Azimuth cm	Polarization deg
2808.000000	56.00	3.2	74.0	18.0	---	100.0	270.00	HORIZONTAL

2.1.2.3 Worst Case (11B/1_M@1)

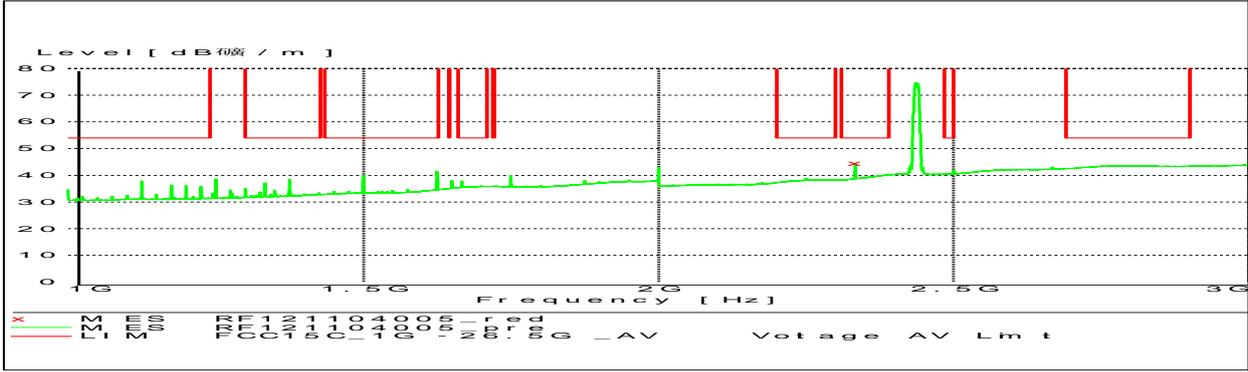


MEASUREMENT RESULT: "RF121104002_red"

2012-11-4 14:00

Frequency MHz	Level dBµV/m	Transd	Limit dB	Margin dBµV/m	Det.	Height	Azimuth cm	Polarization deg
2333.280000	44.60	0.3	54.0	9.4	---	200.0	270.00	VERTICAL

2.1.2.4 Worst Case (11B/1_M@2)

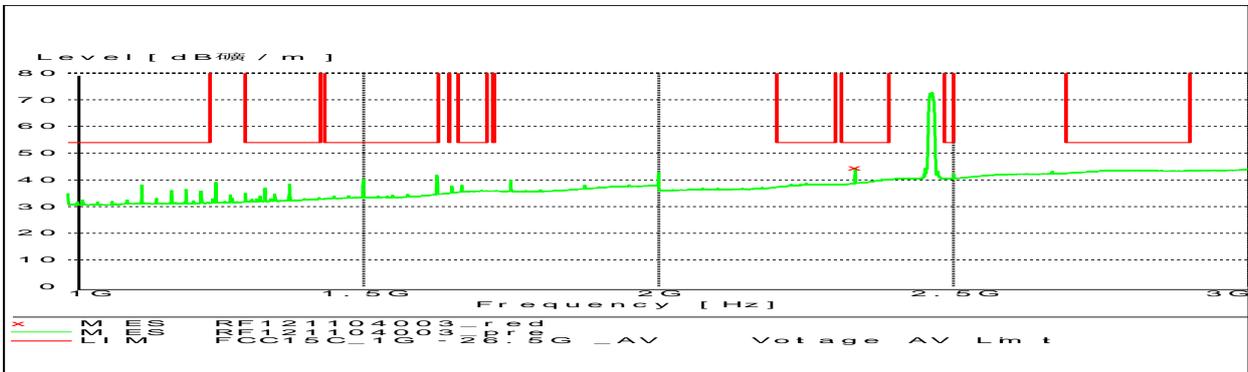


MEASUREMENT RESULT: "RF121104005_red"

2012-11-4 14:23

Frequency MHz	Level dBµV/m	Transd	Limit dB	Margin dBµV/m	Det. dB	Height cm	Azimuth deg	Polarization
2333.280000	44.40	0.3	54.0	9.6	---	200.0	270.00	VERTICAL

2.1.2.5 Worst Case (11B/1_T@1)

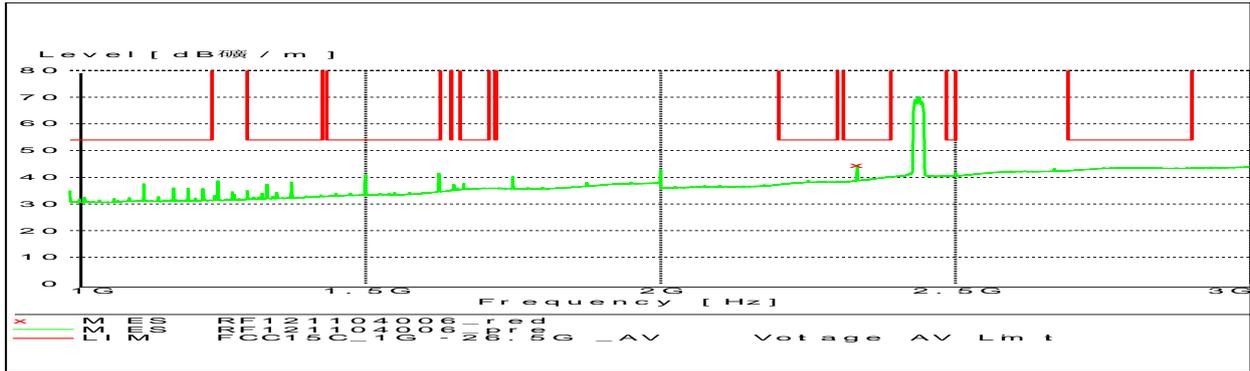


MEASUREMENT RESULT: "RF121104003_red"

2012-11-4 14:08

Frequency MHz	Level dBµV/m	Transd	Limit dB	Margin dBµV/m	Det. dB	Height cm	Azimuth deg	Polarization
2333.280000	44.40	0.3	54.0	9.6	---	200.0	270.00	VERTICAL

2.1.2.6 Worst Case (11N20/0_T@1)

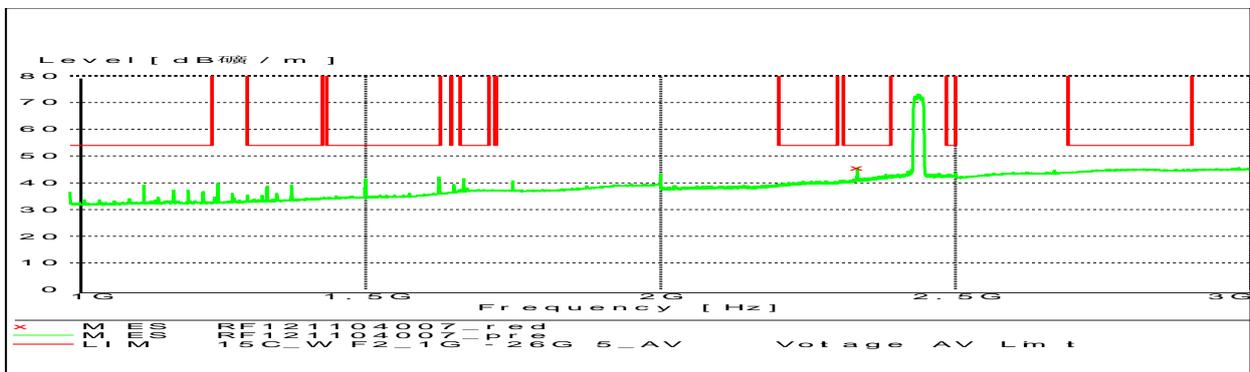


MEASUREMENT RESULT: "RF121104006_red"

2012-11-4 14:31

Frequency MHz	Level dBµV/m	Transd	Limit dB	Margin dBµV/m	Det.	Height cm	Azimuth deg	Polarization
2333.280000	44.50	0.3	54.0	9.5	---	200.0	270.00	VERTICAL

2.1.2.7 Worst Case (11N20/0_T@2)



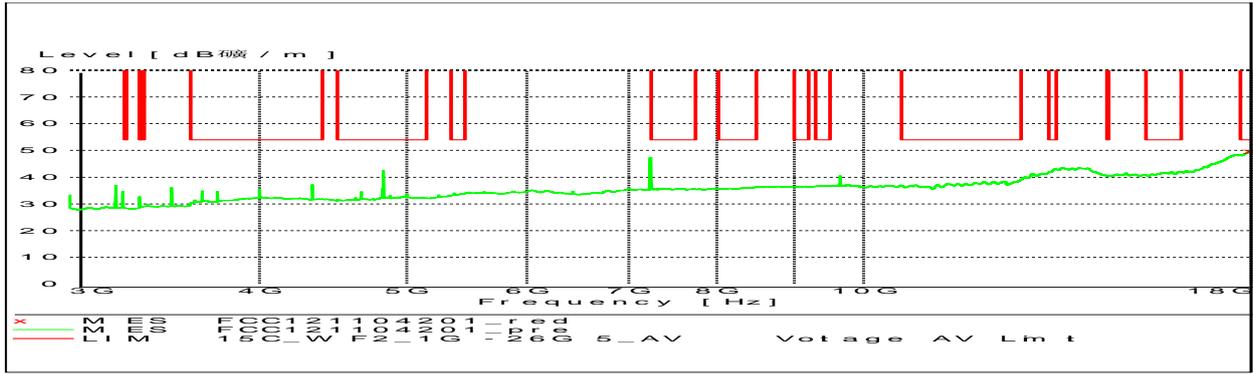
MEASUREMENT RESULT: "RF121104007_red"

2012-11-4 15:22

Frequency MHz	Level dBµV/m	Transd	Limit dB	Margin dBµV/m	Det.	Height cm	Azimuth deg	Polarization
2333.280000	45.60	0.3	54.0	8.4	---	200.0	270.00	VERTICAL

2.1.3 Test range of "3 GHz to 18 GHz"

2.1.3.1 Worst Case (11B/1_B@2)

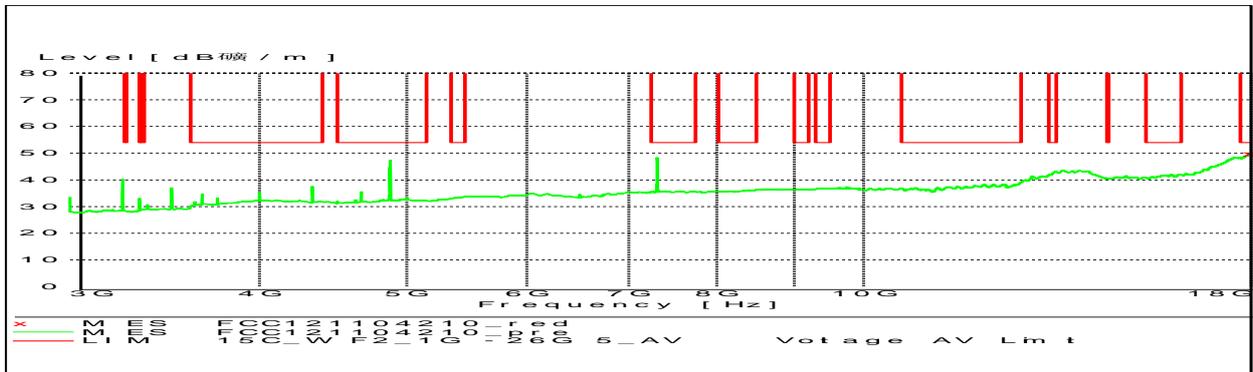


MEASUREMENT RESULT: "FCC121104201_red"

2012-11-4 16:41

Frequency MHz	Level dBµV/m	Transd	Limit dB	Margin dBµV/m	Det. dB	Height cm	Azimuth cm	Polarization deg
17993.598800	49.80	29.4	54.0	4.2	---	100.0	90.00	VERTICAL

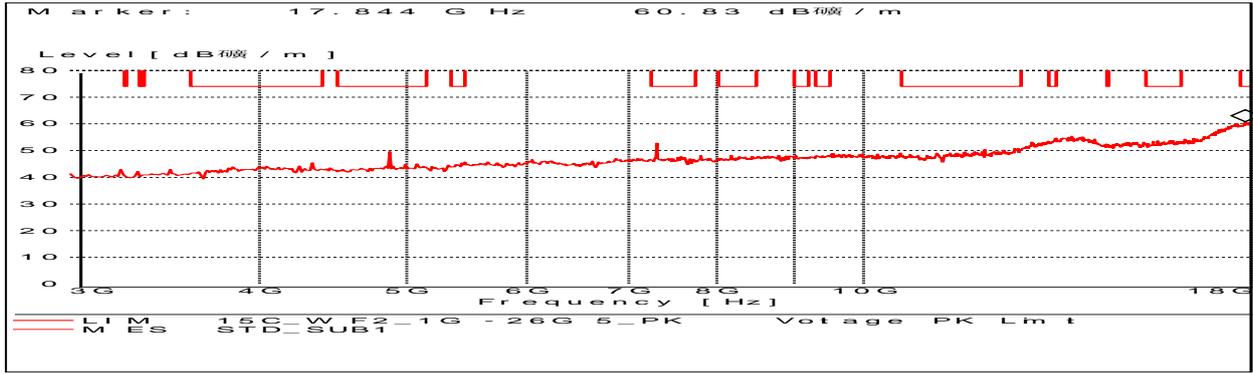
2.1.3.2 Worst Case (11B/1_M@2)



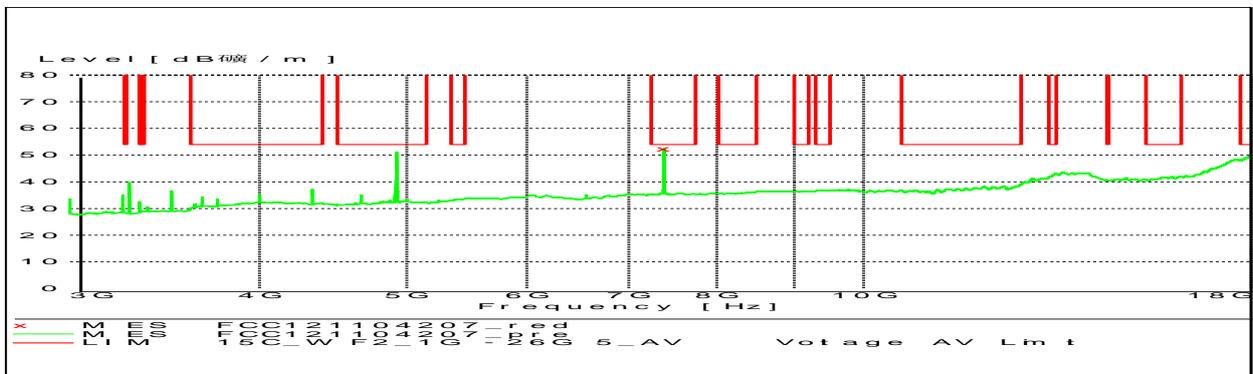
MEASUREMENT RESULT: "FCC121104210_red"

2012-11-4 18:25

Frequency MHz	Level dBµV/m	Transd	Limit dB	Margin dBµV/m	Det. dB	Height cm	Azimuth cm	Polarization deg
17990.644400	49.90	29.4	54.0	4.1	---	200.0	180.00	HORIZONTAL



2.1.3.3 Worst Case (11B/1_T@1)

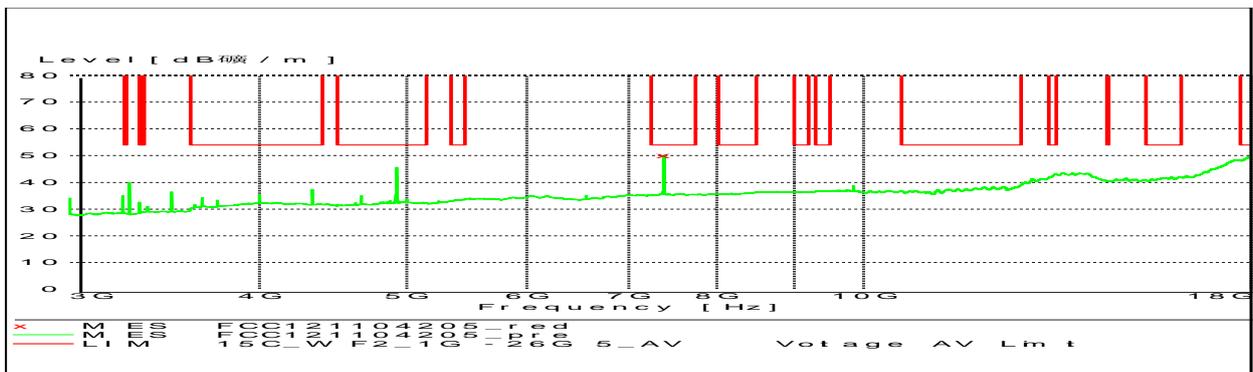


MEASUREMENT RESULT: "FCC121104207_red"

2012-11-4 17:47

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBμV/m	dB	dBμV/m	dB	dB	cm	deg	deg
7386.772800	52.50	11.5	54.0	1.5	---	200.0	270.00	VERTICAL

2.1.3.4 Worst Case (11B/1_T@2)

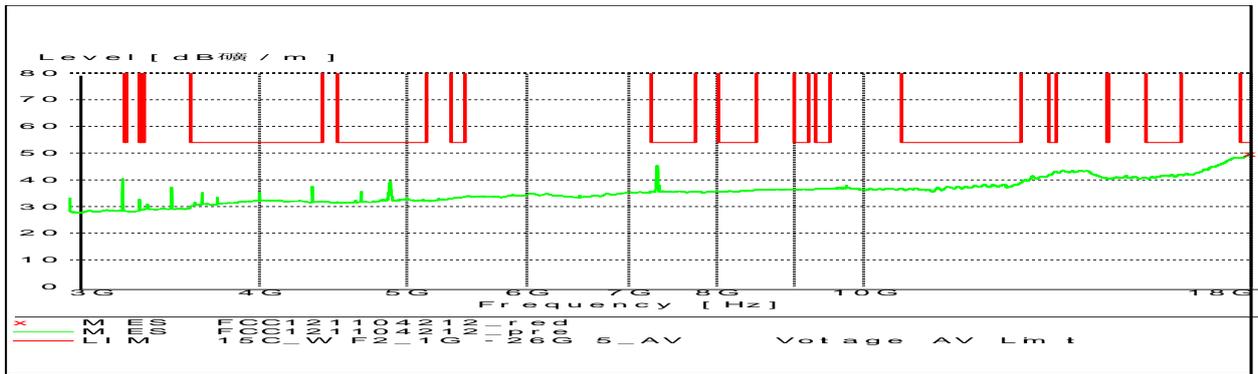


MEASUREMENT RESULT: "FCC121104205_red"

2012-11-4 17:28

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
7386.973200	50.10	11.5	54.0	3.9	---	200.0	270.00	VERTICAL

2.1.3.5 Worst Case (11N20/0_M@2)



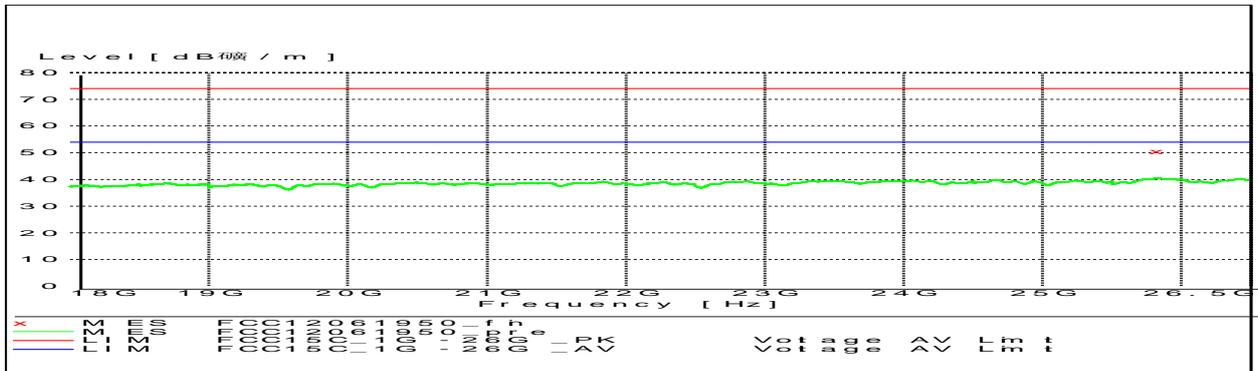
MEASUREMENT RESULT: "FCC121104212_red"

2012-11-4 18:39

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
17998.522800	49.80	29.5	54.0	4.2	---	200.0	0.00	VERTICAL

2.1.4 Test range of "18 GHz to 26.5 GHz"

2.1.4.1 Worst Case (11B/1_T@1)





MEASUREMENT RESULT: "FCC12061950_fin"

2012-6-19 21:15

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Det. dB	Height cm	Azimuth deg	Polarization deg
25822.800000	50.40	29.3	74.0	23.6	PK	100.0	90.00	VERTICAL



Appendix G: Receiver Spurious Emissions

The whole testing range is from “30 MHz to 8 GHz (3rd harmonics)” is divided into 2 parts according to the test site settings, which are:

- (Part 1): Test range of “30 MHz to 1 GHz”, and
- (Part 2): Test range of “1 GHz to 8 GHz”.

For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at all chains to get a final result, due to the radiated measurement method. The result is the directly measured sum of each chain.

In this Appendix, only the test results and plots under the worst case can be reported. In the result table, the “< Limit” denotes that “Not found obvious spikes or see marked spikes on plots and listed emissions records”.

1 Result Table

(Not applicable)



Appendix H: AC Power Line Conducted Emissions



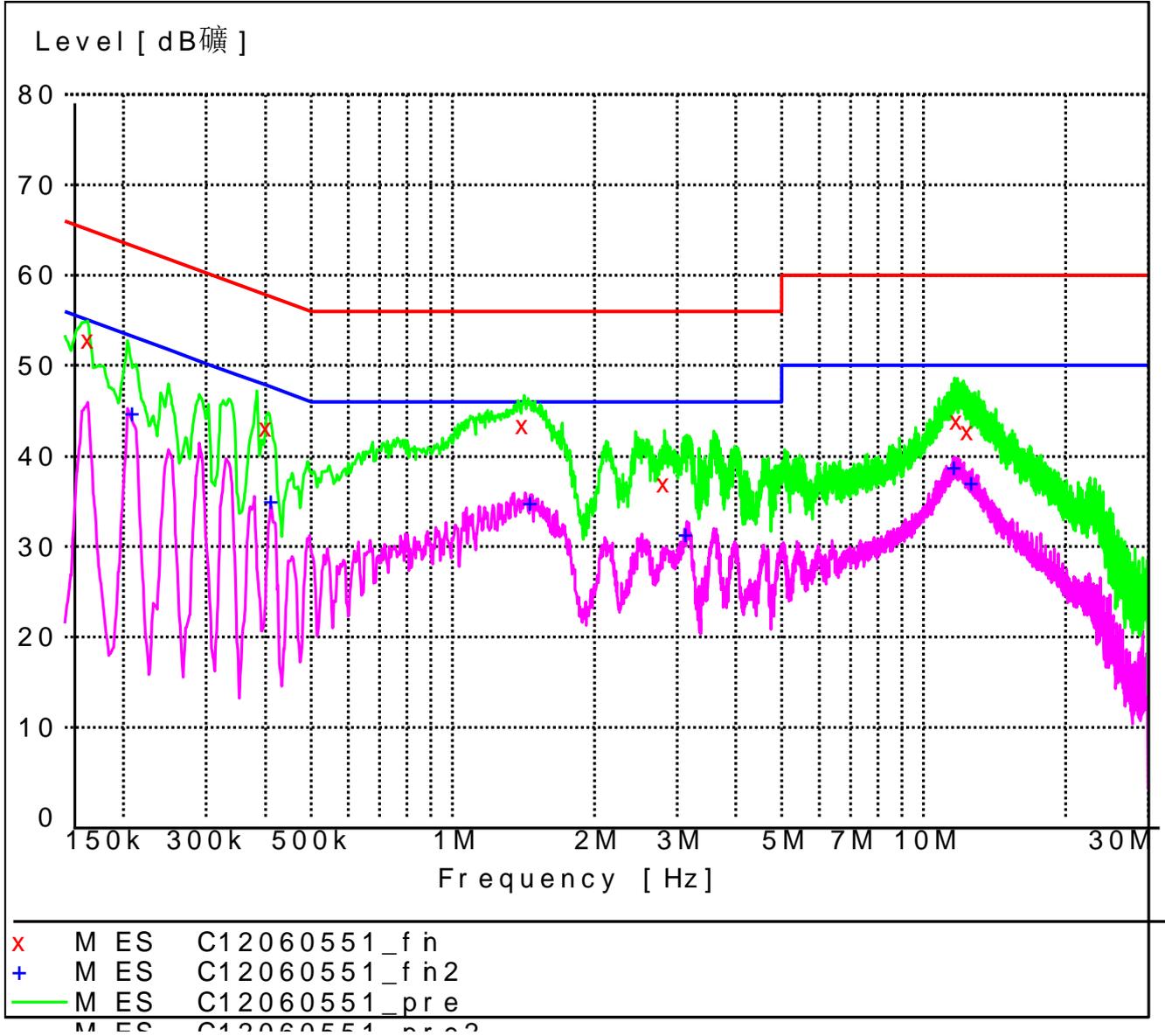
In this Appendix, only the test results and plots under the worst case can be reported.

1 Result Table

EUT Conf.	Maximum Emissions	Verdict
11B/1_B@1	Not found obvious spikes or see marked spikes on plots and listed emissions records.	Pass

2 Result Plot

2.1 11B/1_B@1



MEASUREMENT RESULT: "C12060551_fin"

6/5/2012 7:33PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.168000	52.90	9.9	65	12.2	QP	L2	
0.402000	43.10	9.9	58	14.7	QP	L2	
1.405500	43.40	9.9	56	12.6	QP	L2	



2.809500	37.00	10.0	56	19.0	QP	L2
11.778000	43.90	10.3	60	16.1	QP	L1
12.426000	42.80	10.4	60	17.2	QP	L1

MEASUREMENT RESULT: "C12060551_fin2"

6/5/2012 7:33PM

Frequency MHz	Level dBμV	Transd dB	Limit dB	Margin dB	Detector	Line	PE
0.208500	44.80	9.9	53	8.5	AV	L2	
0.411000	35.00	9.9	48	12.6	AV	L2	
1.459500	34.90	9.9	46	11.1	AV	L2	
3.115500	31.30	10.0	46	14.7	AV	L2	
11.625000	38.80	10.3	50	11.2	AV	L1	
12.615000	37.10	10.4	50	12.9	AV	L1	



Appendix I: Photos of Test Setups

1 Test Setup 2

1.1 Radiated (Unwanted Emissions into Restricted Frequency Bands, cabinet/case emissions with impedance matching for antenna-port)

1.1.1 Measurement Setup from 30 MHz to 1 GHz



1.1.2 Measurement Setup from 1 GHz to 3 GHz, 3 GHz to 18 GHz



1.1.3 Measurement Setup from 18 GHz to 26.5 GHz





1.2 Radiated (Receiver Spurious Emissions)

(Not applicable)

2 Test Setup 3



END