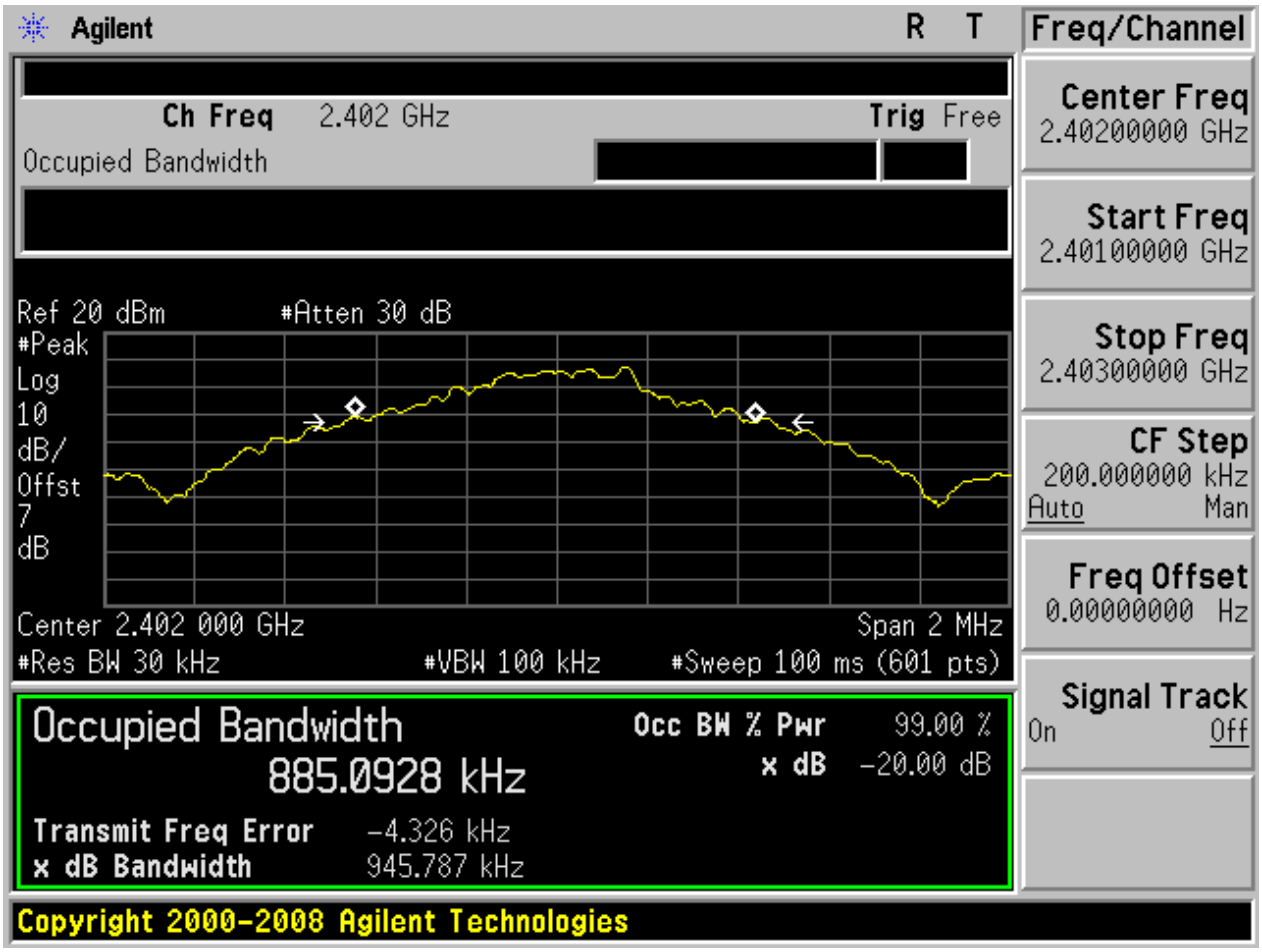
Appendix A: 20dB Emission Bandwidth (EBW)

1 Result Table

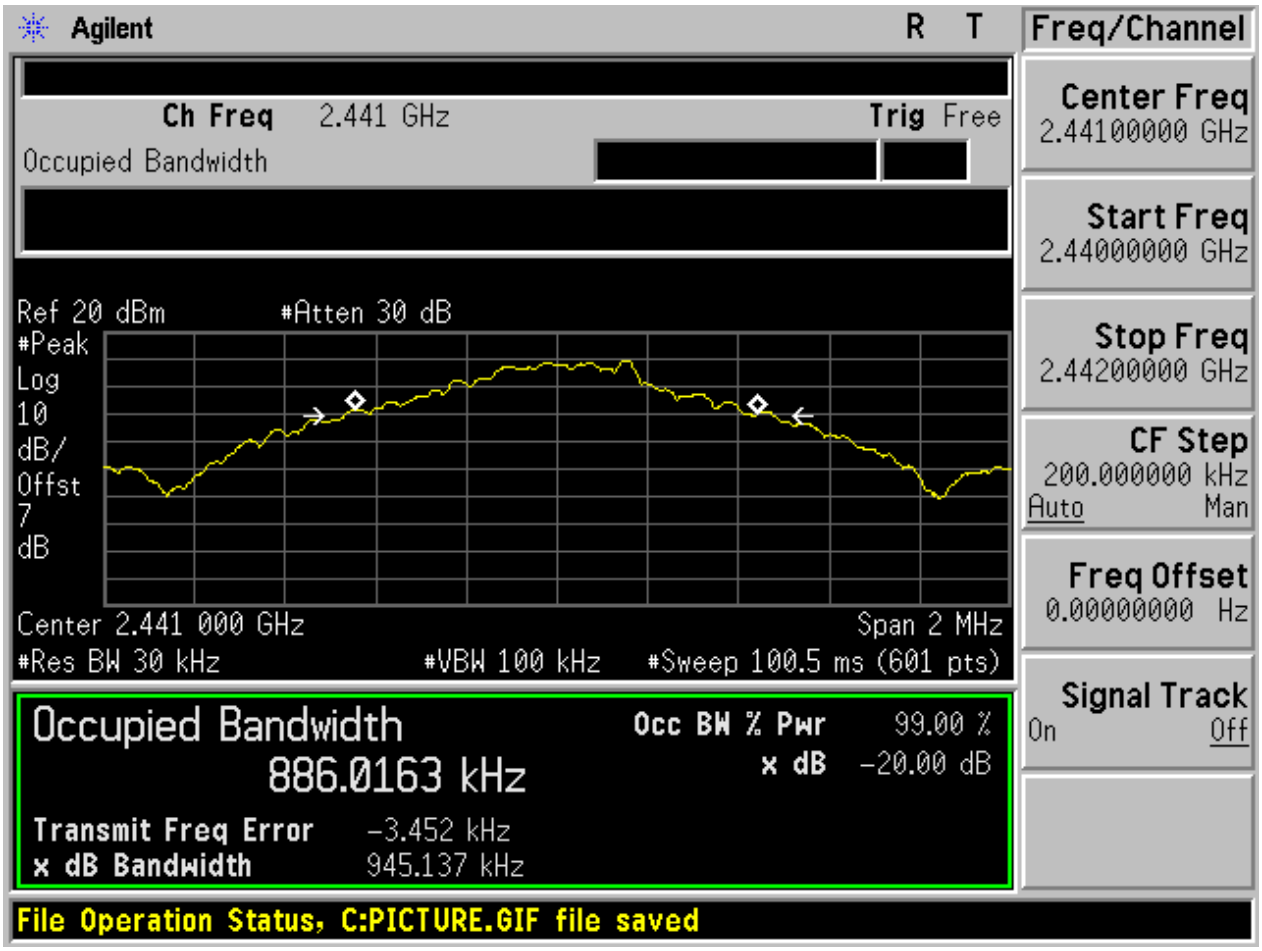
EUT Conf.	EBW [MHz]	Verdict
TM1_DH5_Ch0	0.946	Pass
TM1_DH5_Ch39	0.945	Pass
TM1_DH5_Ch78	0.946	Pass
TM2_2DH5_Ch0	1.284	Pass
TM2_2DH5_Ch39	1.285	Pass
TM2_2DH5_Ch78	1.285	Pass
TM3_3DH5_Ch0	1.280	Pass
TM3_3DH5_Ch39	1.281	Pass
TM3_3DH5_Ch78	1.280	Pass

2 Test Plot

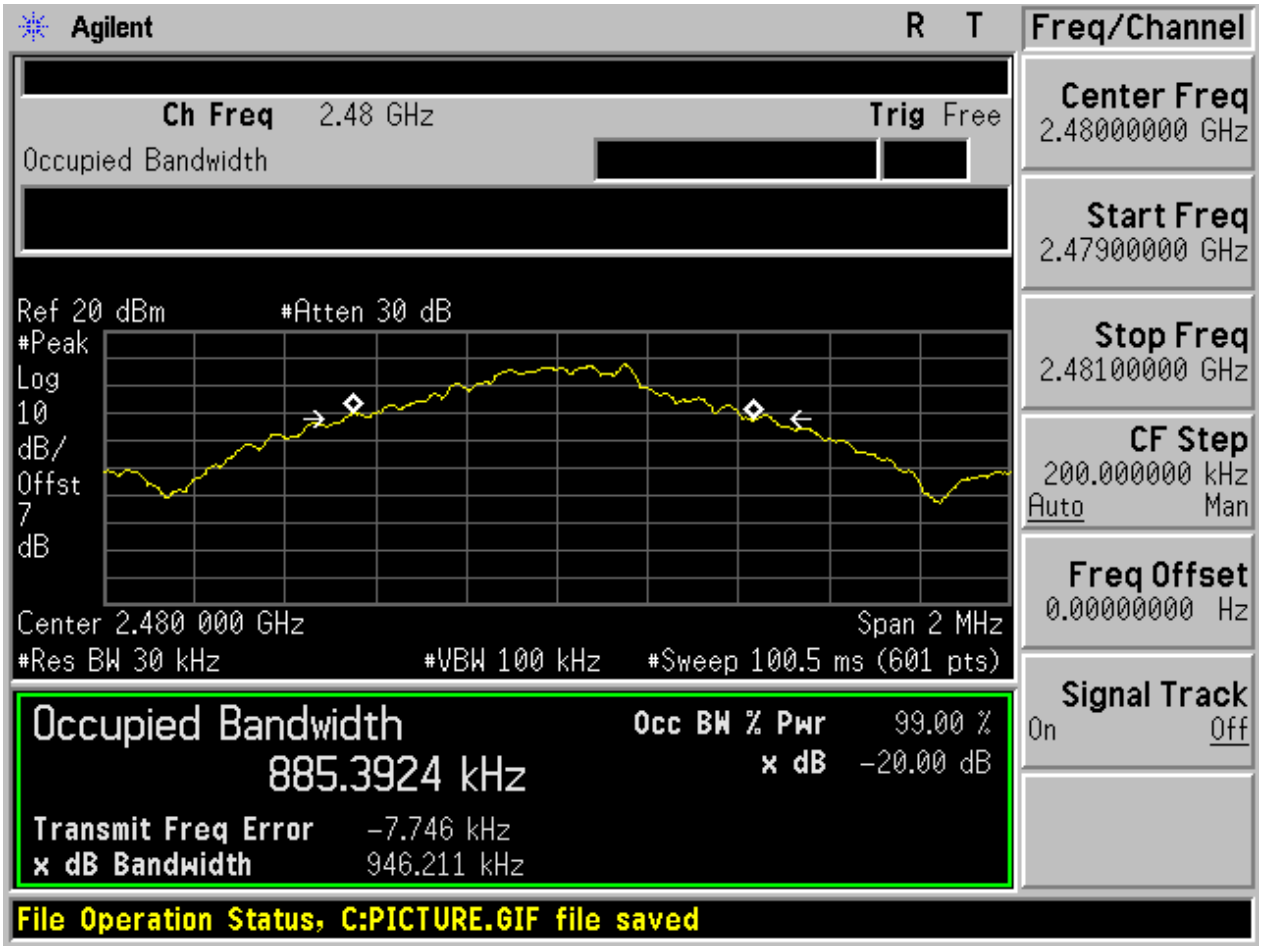
2.1 TM1_DH5_Ch0



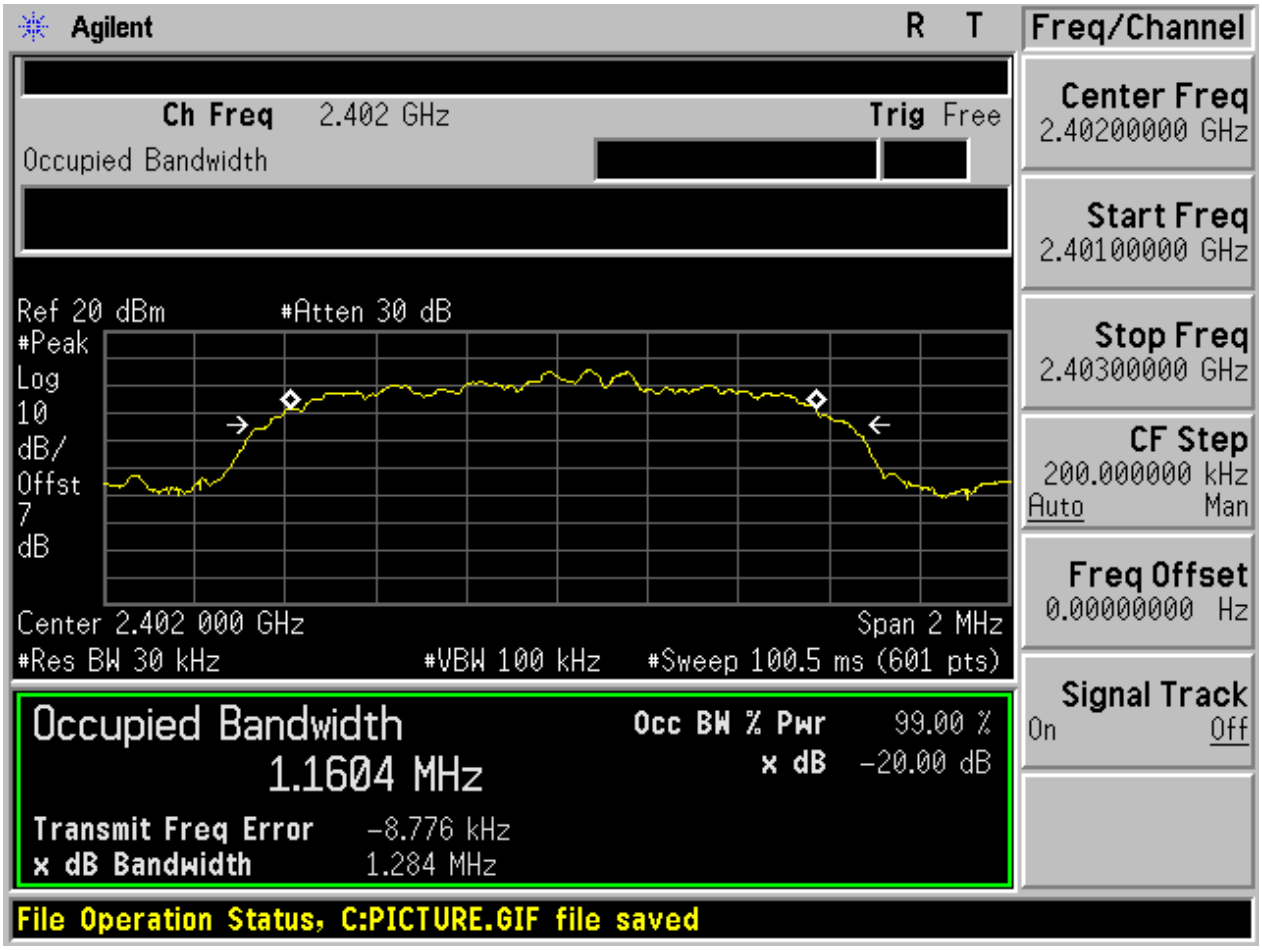
2.2 TM1_DH5_Ch39



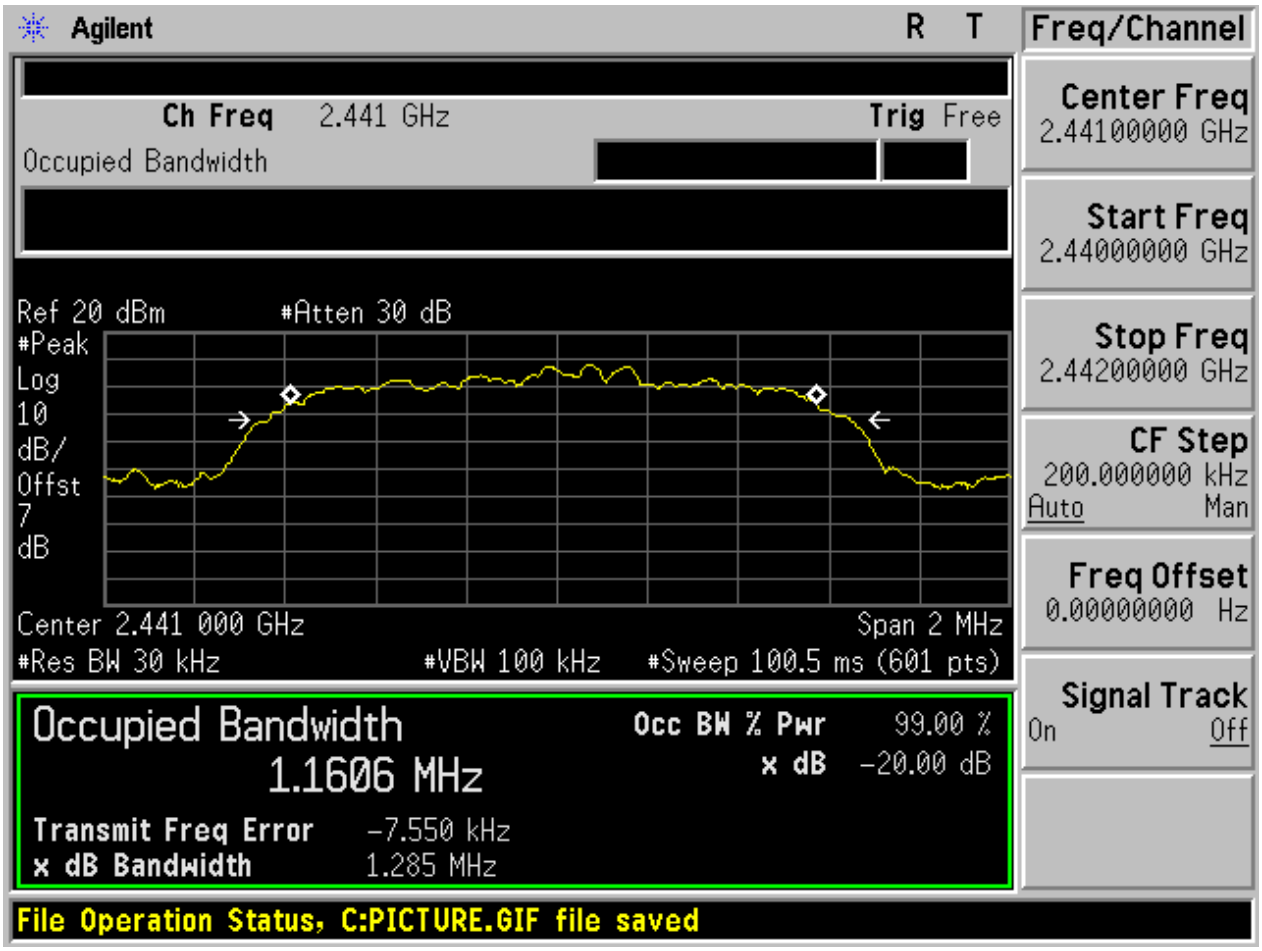
2.3 TM1_DH5_Ch78



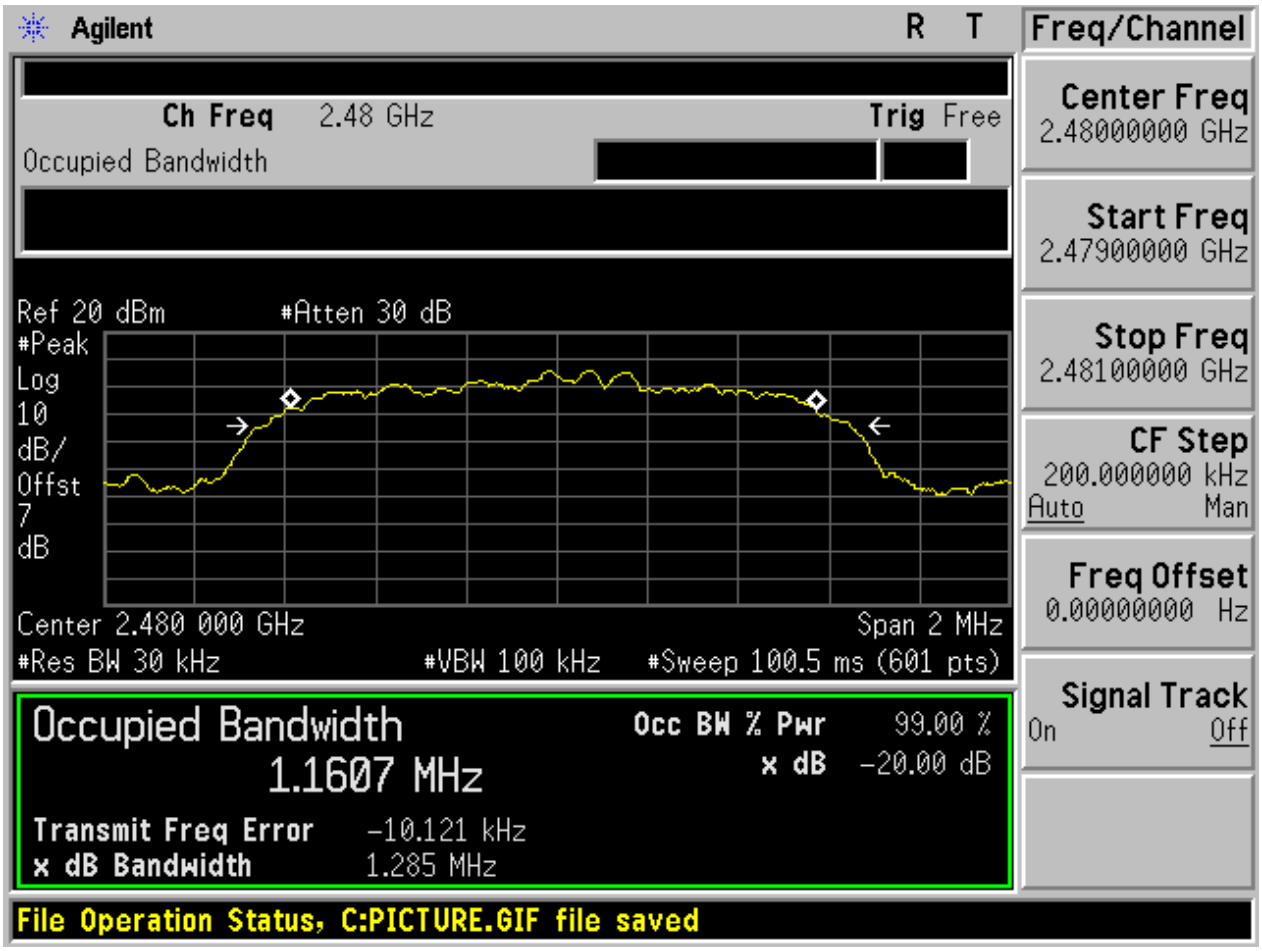
2.4 TM2_2DH5_Ch0



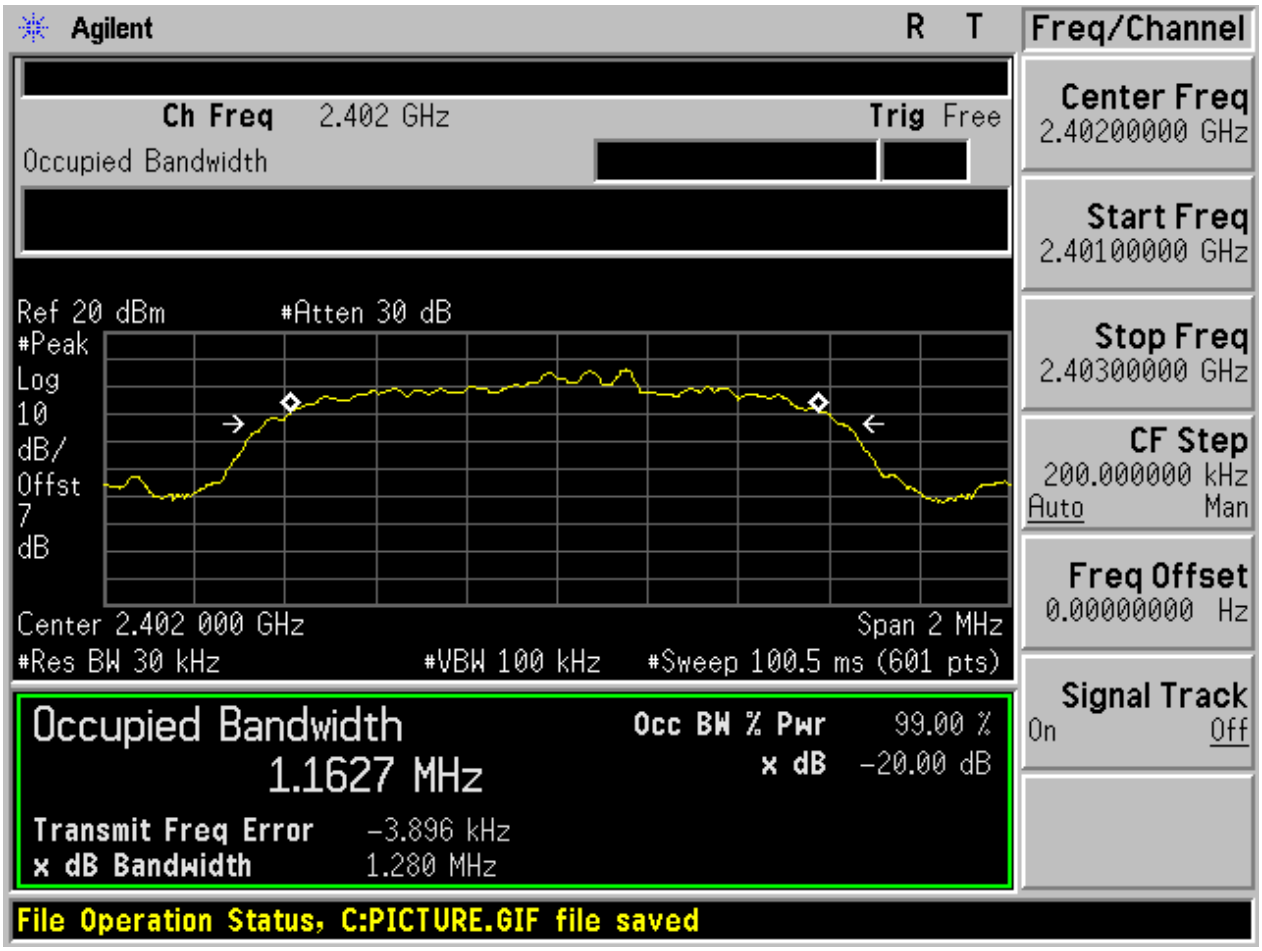
2.5 TM2_2DH5_Ch39



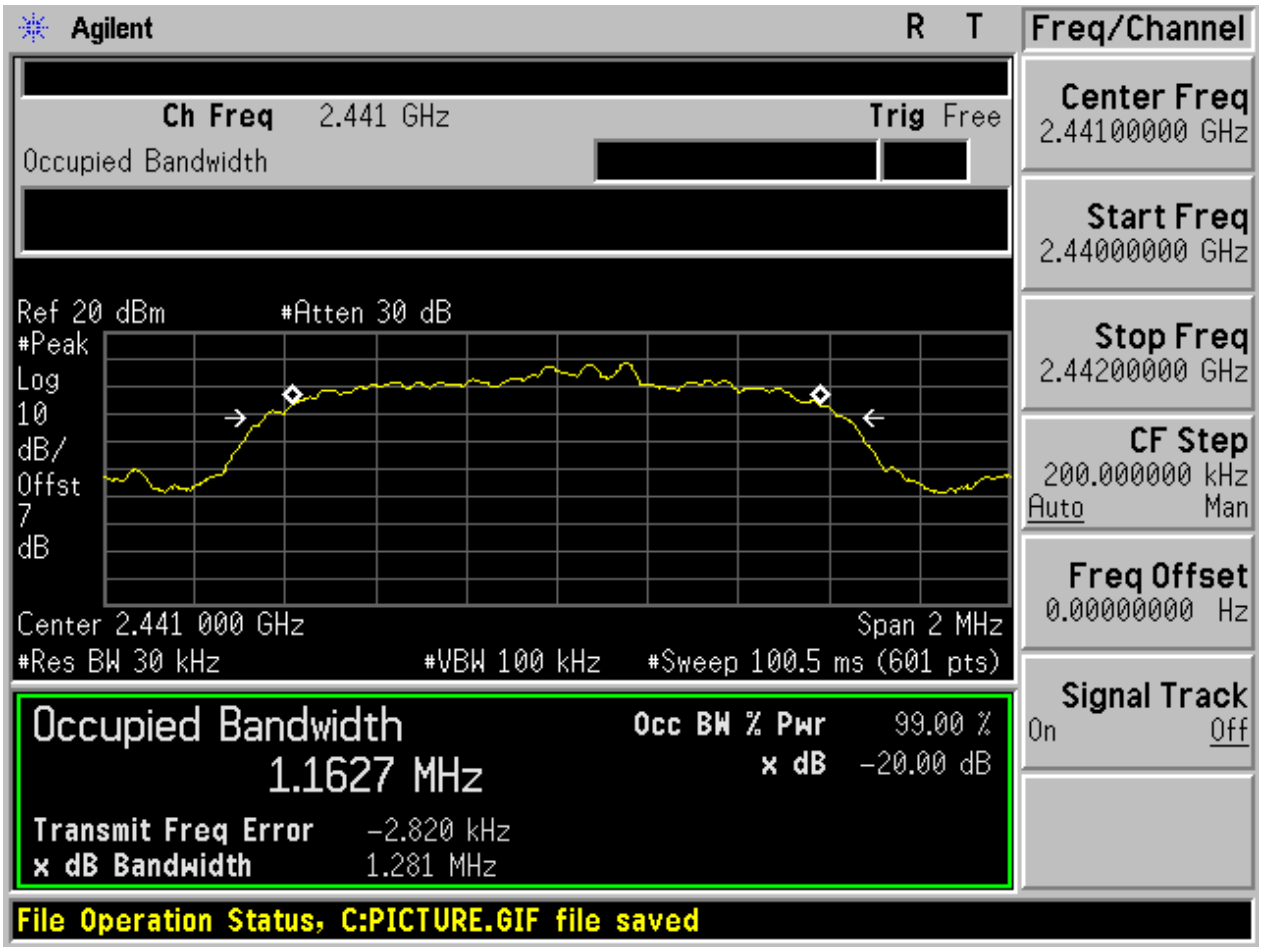
2.6 TM2_2DH5_Ch78



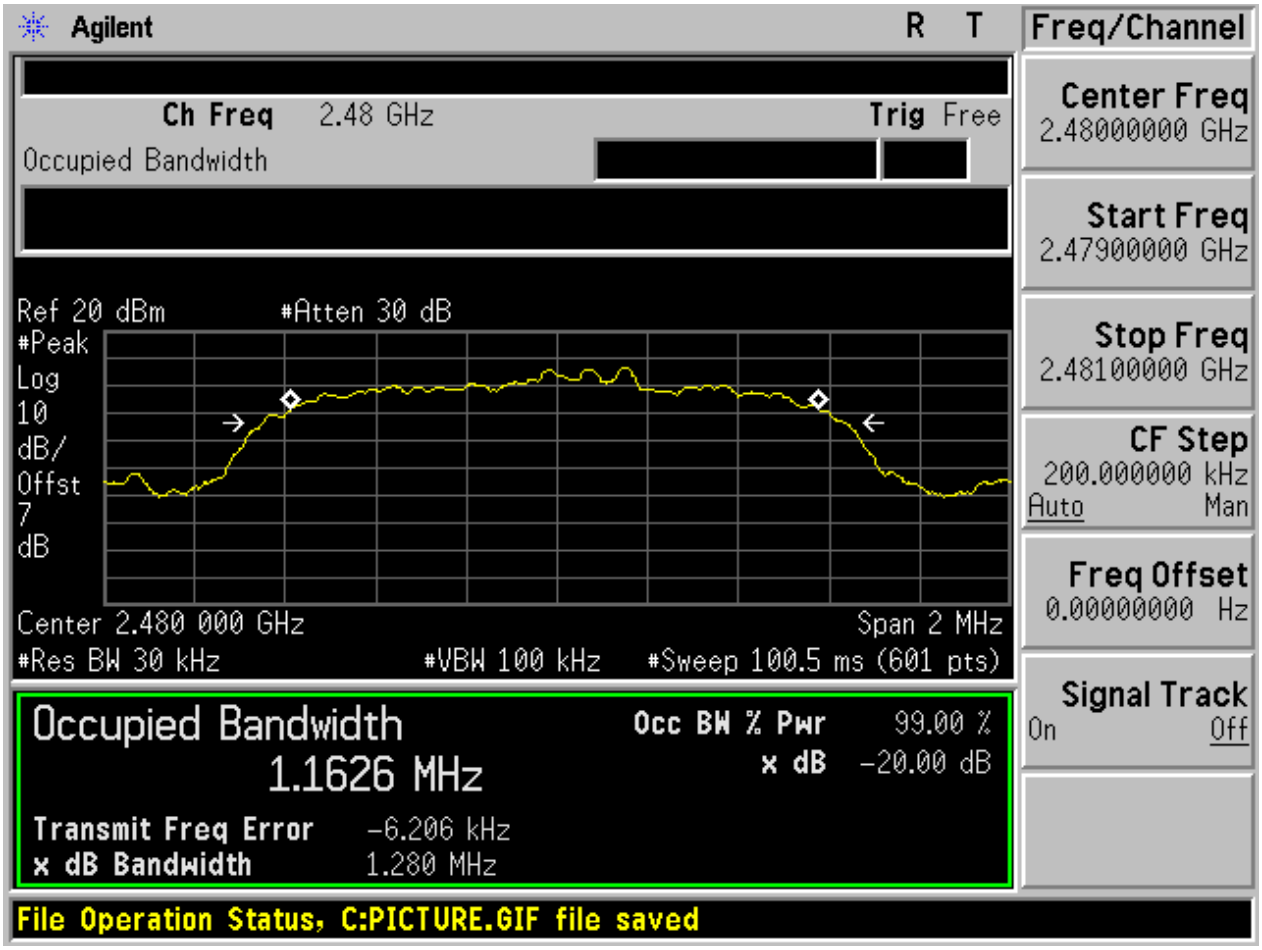
2.7 TM3_3DH5_Ch0



2.8 TM3_3DH5_Ch39



2.9 TM3_3DH5_Ch78



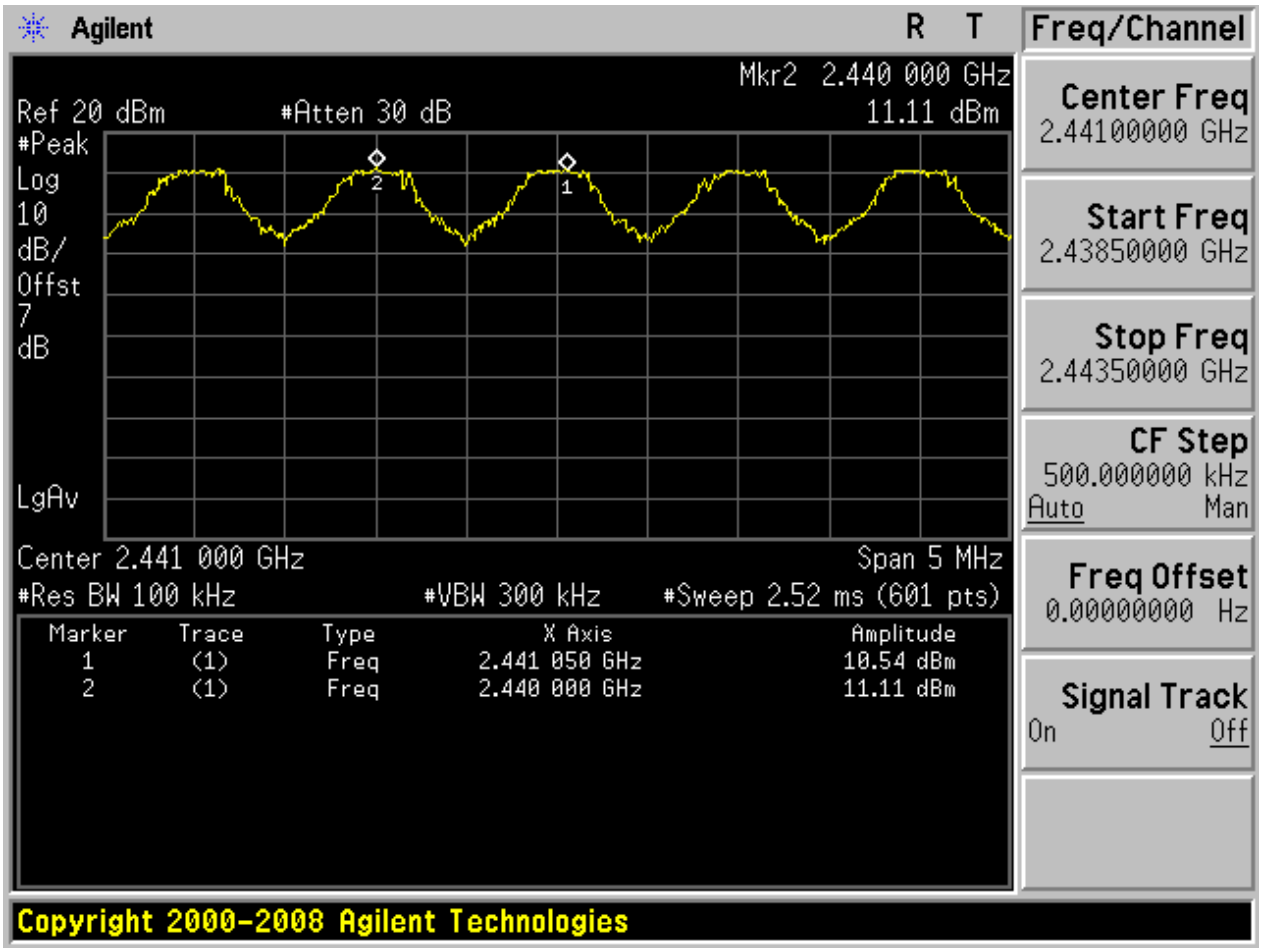
Appendix B: Carrier Frequency Separation

1 Result Table

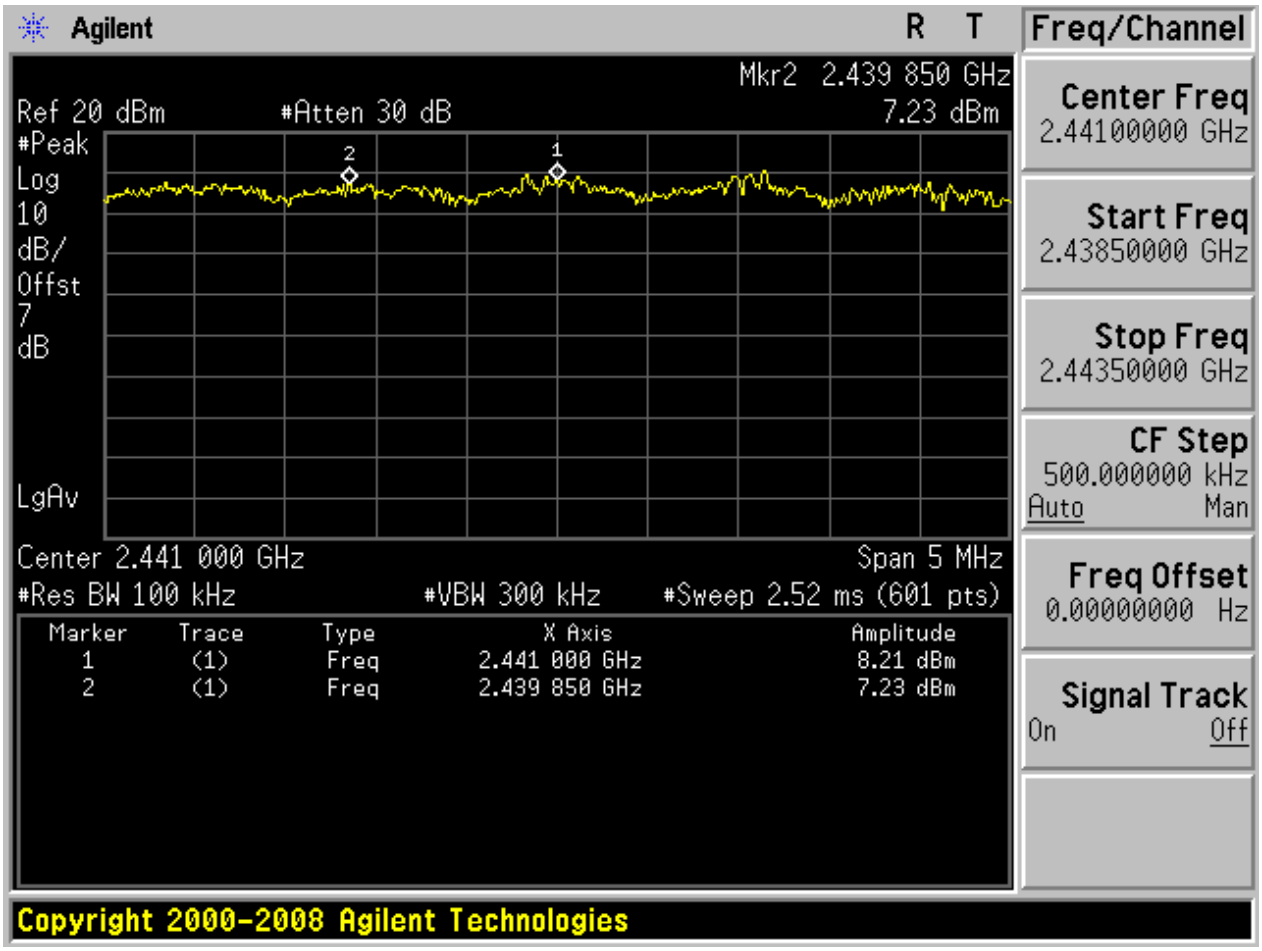
EUT Conf.	Carrier Frequency Separation [MHz]	Verdict
TM1_DH5_Hop	1.050	Pass
TM2_2DH5_Hop	1.150	Pass
TM3_3DH5_Hop	1.016	Pass

2 Test Plot

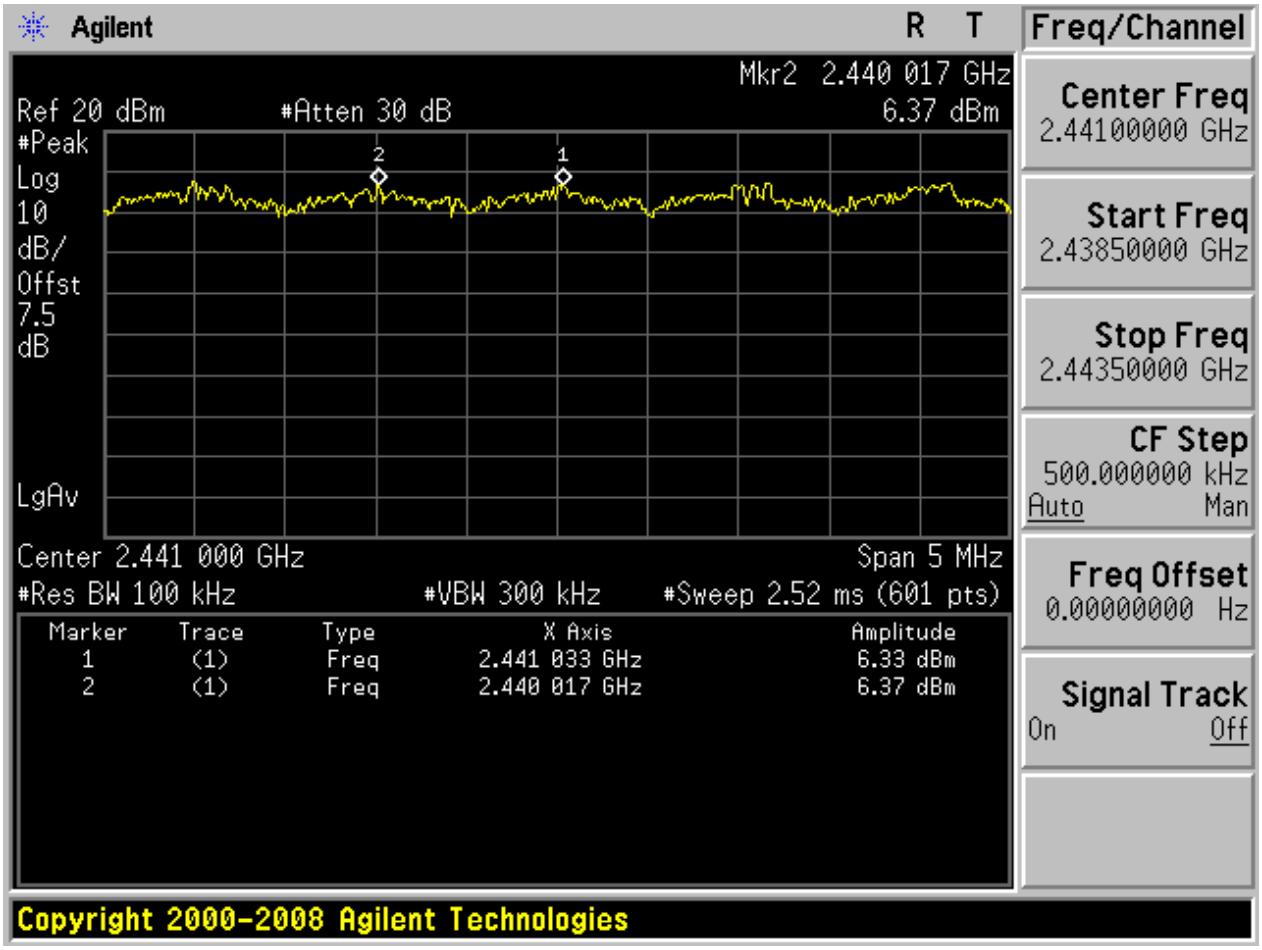
2.1 TM1_DH5_Hop



2.2 TM2_2DH5_Hop



2.3 TM3_3DH5_Hop



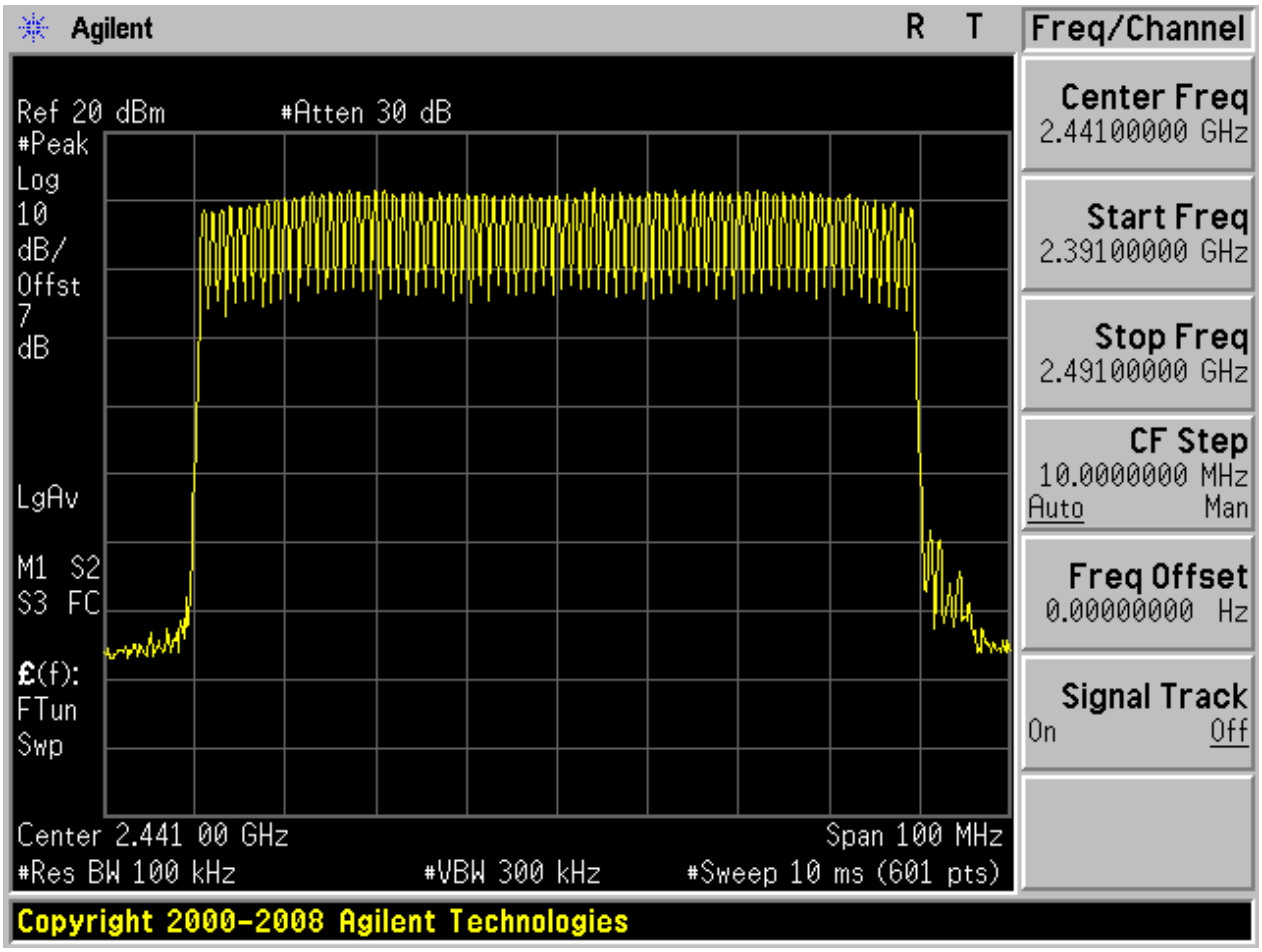
Appendix C: Number of Hopping Channel

1 Result Table

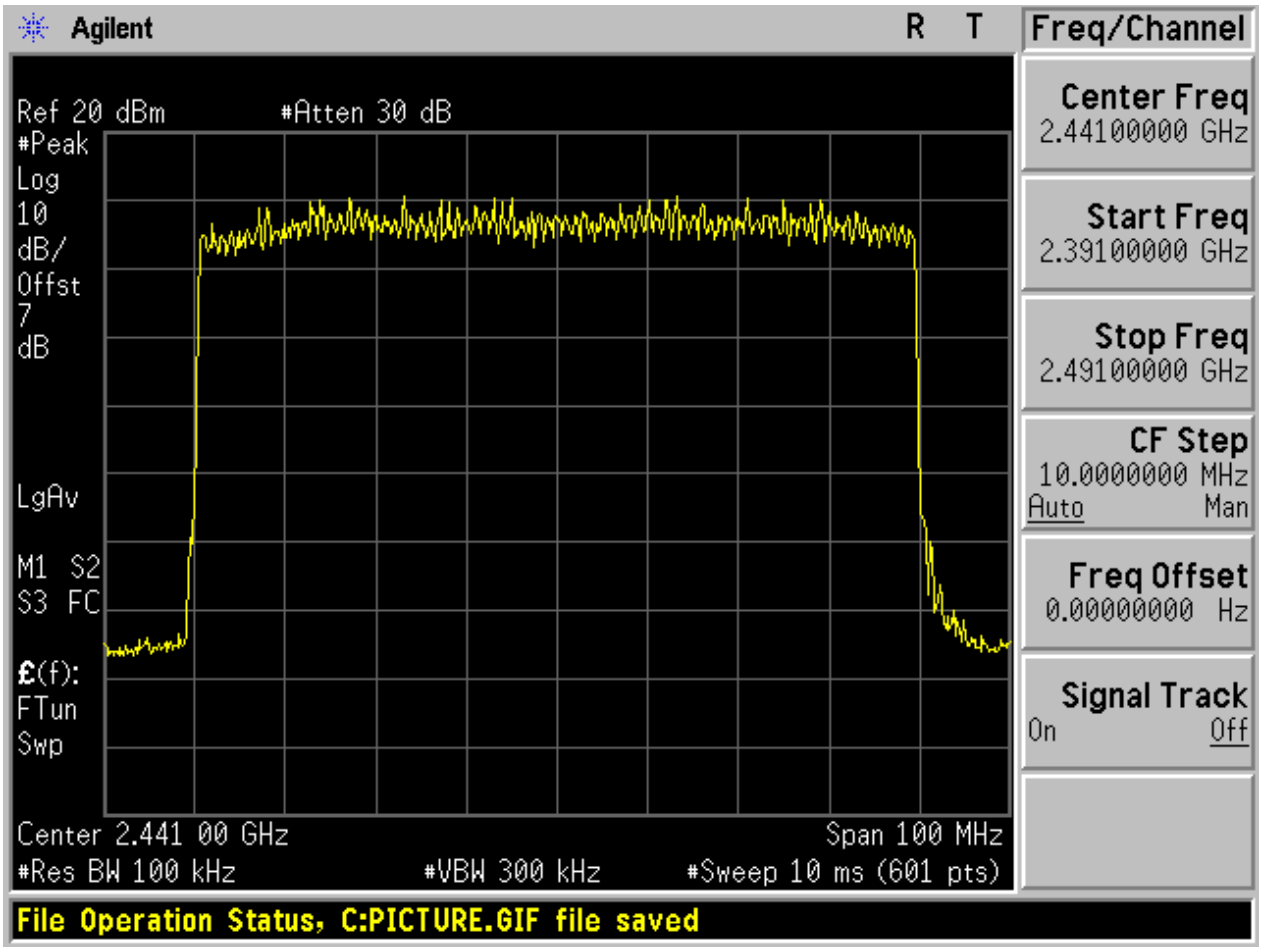
EUT Conf.	Number of Hopping Channel	Verdict
TM1_DH5_Hop	79	Pass
TM2_2DH5_Hop	79	Pass
TM3_3DH5_Hop	79	Pass

2 Test Plot

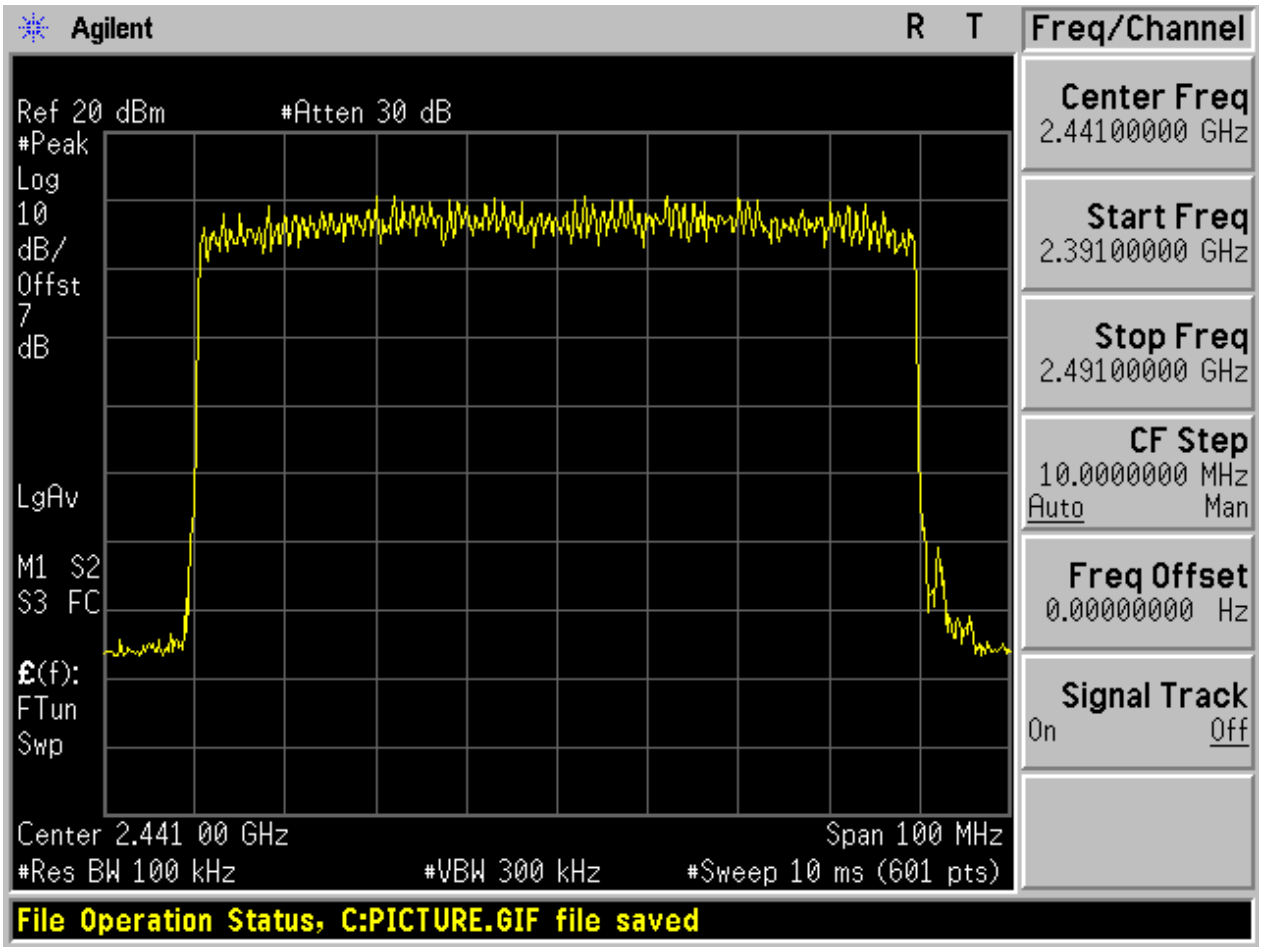
2.1 TM1_DH5_Hop



2.2 TM2_2DH5_Hop



2.3 TM3_3DH5_Hop



Appendix D: Time of Occupancy (Dwell Time)

1 Result Table

The Dwell Time = Burst Width * Total Hops. The detailed calculations are showed as follows:

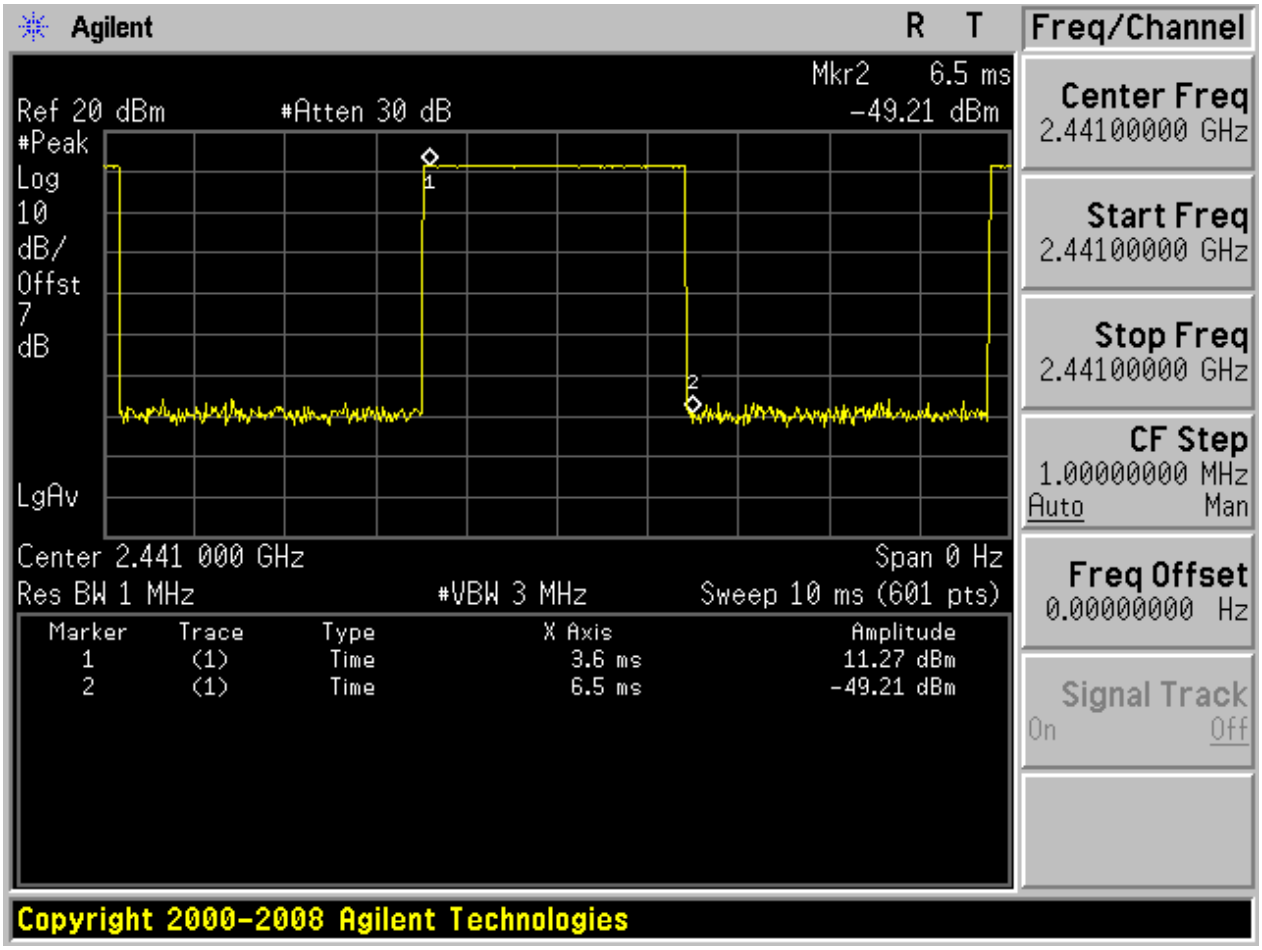
- The duration for dwell time calculation: 0.4 [s] * hopping number = 0.4 [s] * 79 [ch] = 31.6 [s*ch];
- The burst width [ms/hop/ch], which is directly measured, refers to the duration on one channel hop.
- The hops per second for all channels: The selected EUT Conf uses a slot type of 5-Tx&1-Rx and a hopping rate of 1600 [ch*hop/s] for all channels. So the final hopping rate for all channels is 1600 / 6 = 266.67 [ch*hop/s];
- The hops per second on one channel: 266.67 [ch*hop/s] / 79 [ch] =3.38 [hop/s];
- The total hops for all channels within the dwell time calculation duration: 3.38 [hop/s] * 31.6 [s*ch] = 106.67 [hop*ch];
- The dwell time for all channels hopping: 106.67 [hop*ch] * Burst Width [ms/hop/ch].

EUT Conf.	Burst Width [ms/hop/ch]	Total Hops [hop*ch]	Dwell Time [s]	Verdict
TM1_DH5_Ch39	2.900	106.67	0.309	Pass
TM2_2DH5_Ch39	2.900	106.67	0.309	Pass
TM3_3DH5_Ch39	2.900	106.67	0.309	Pass

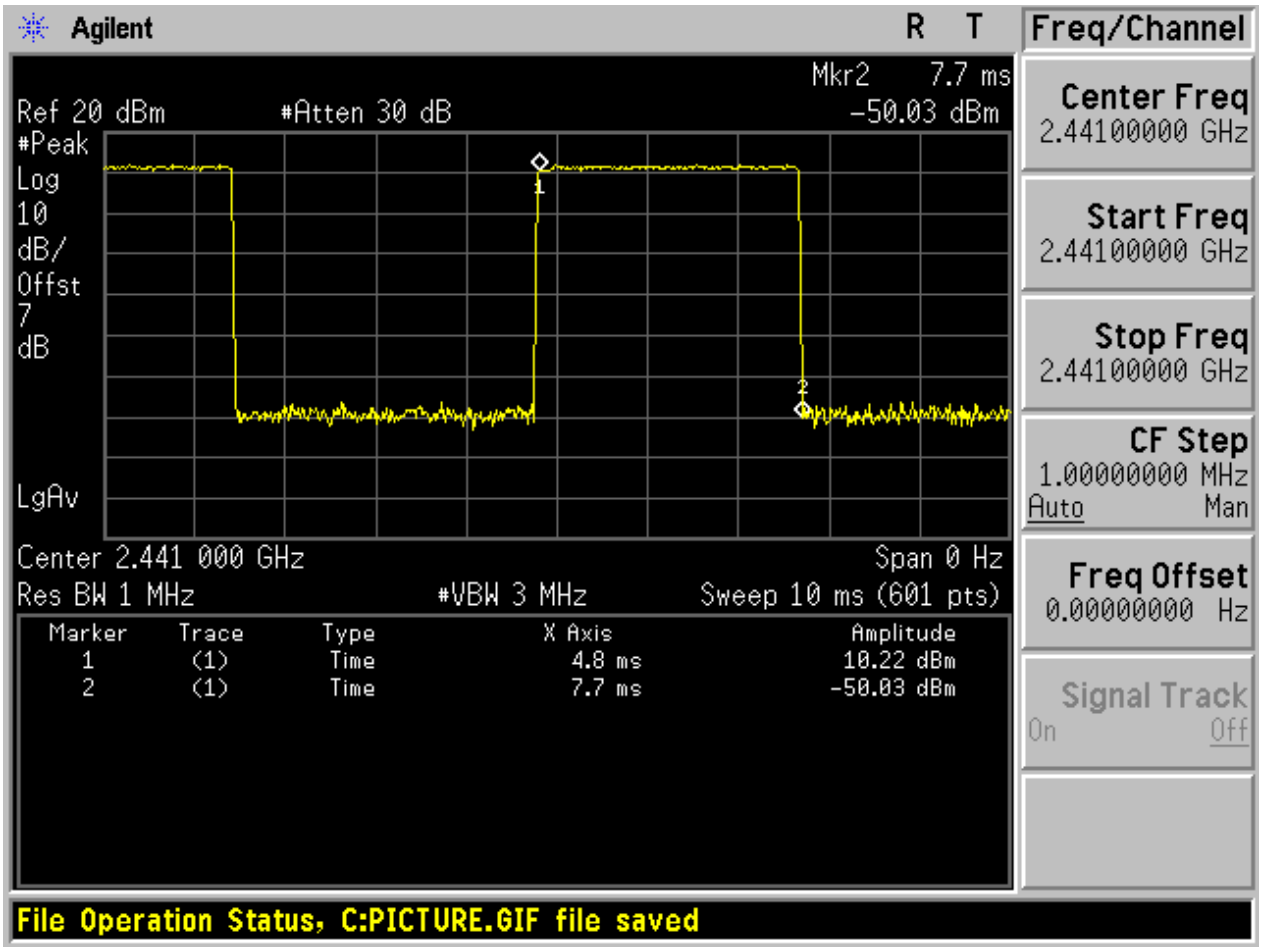
2 Test Plot

NOTE: The test plots are only for Burst Width measurements.

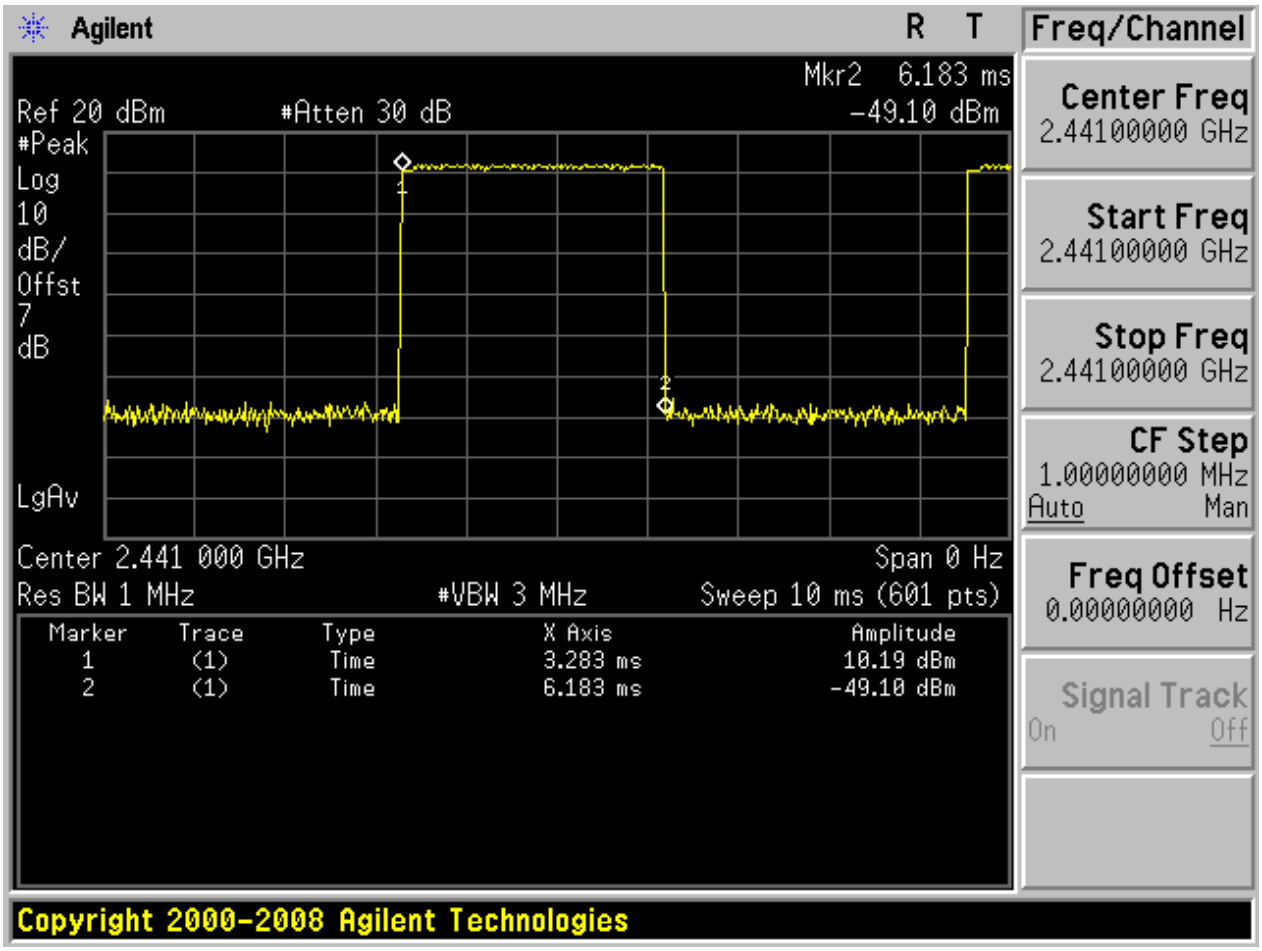
2.1 TM1_DH5_Ch39



2.2 TM2_2DH5_Ch39



2.3 TM3_3DH5_Ch39



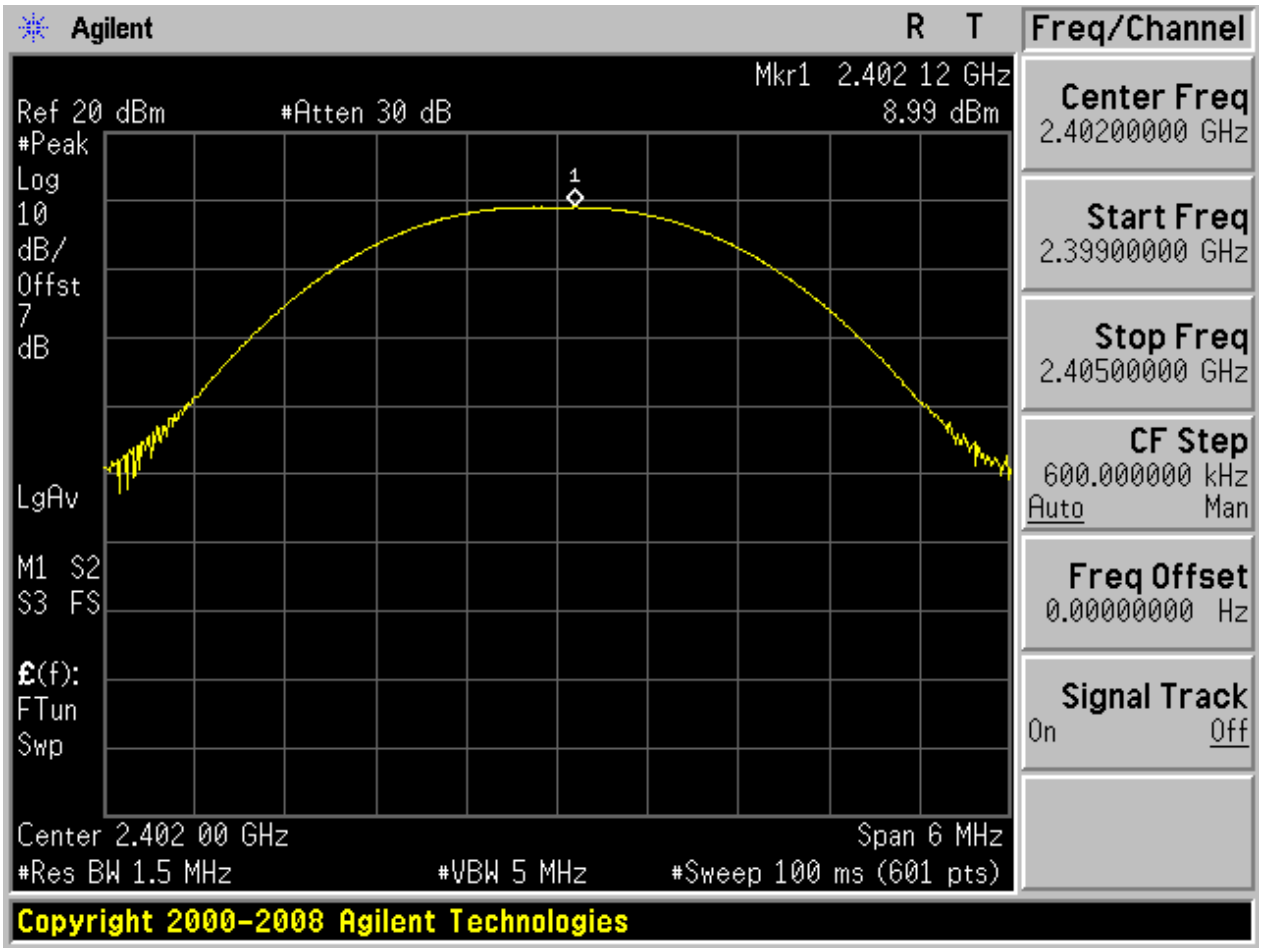
Appendix E: Maximum Peak Conducted Output Power

1 Result Table

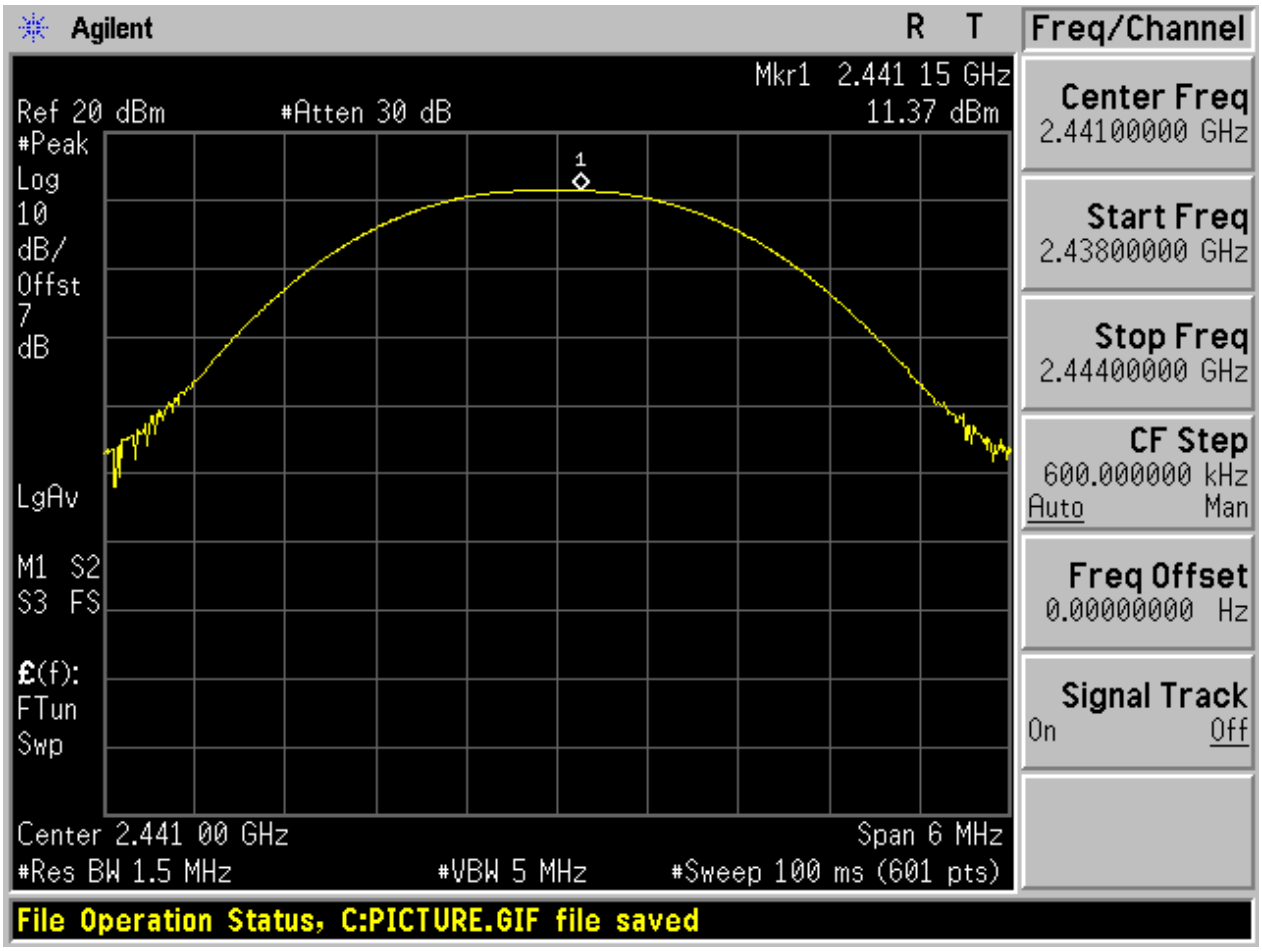
EUT Conf.	Max. Peak Power [dBm]	Verdict
TM1_DH5_Ch0	8.99	Pass
TM1_DH5_Ch39	11.37	Pass
TM1_DH5_Ch78	9.52	Pass
TM2_2DH5_Ch0	9.84	Pass
TM2_2DH5_Ch39	12.19	Pass
TM2_2DH5_Ch78	10.3	Pass
TM3_3DH5_Ch0	9.98	Pass
TM3_3DH5_Ch39	12.32	Pass
TM3_3DH5_Ch78	10.43	Pass

2 Test Plot

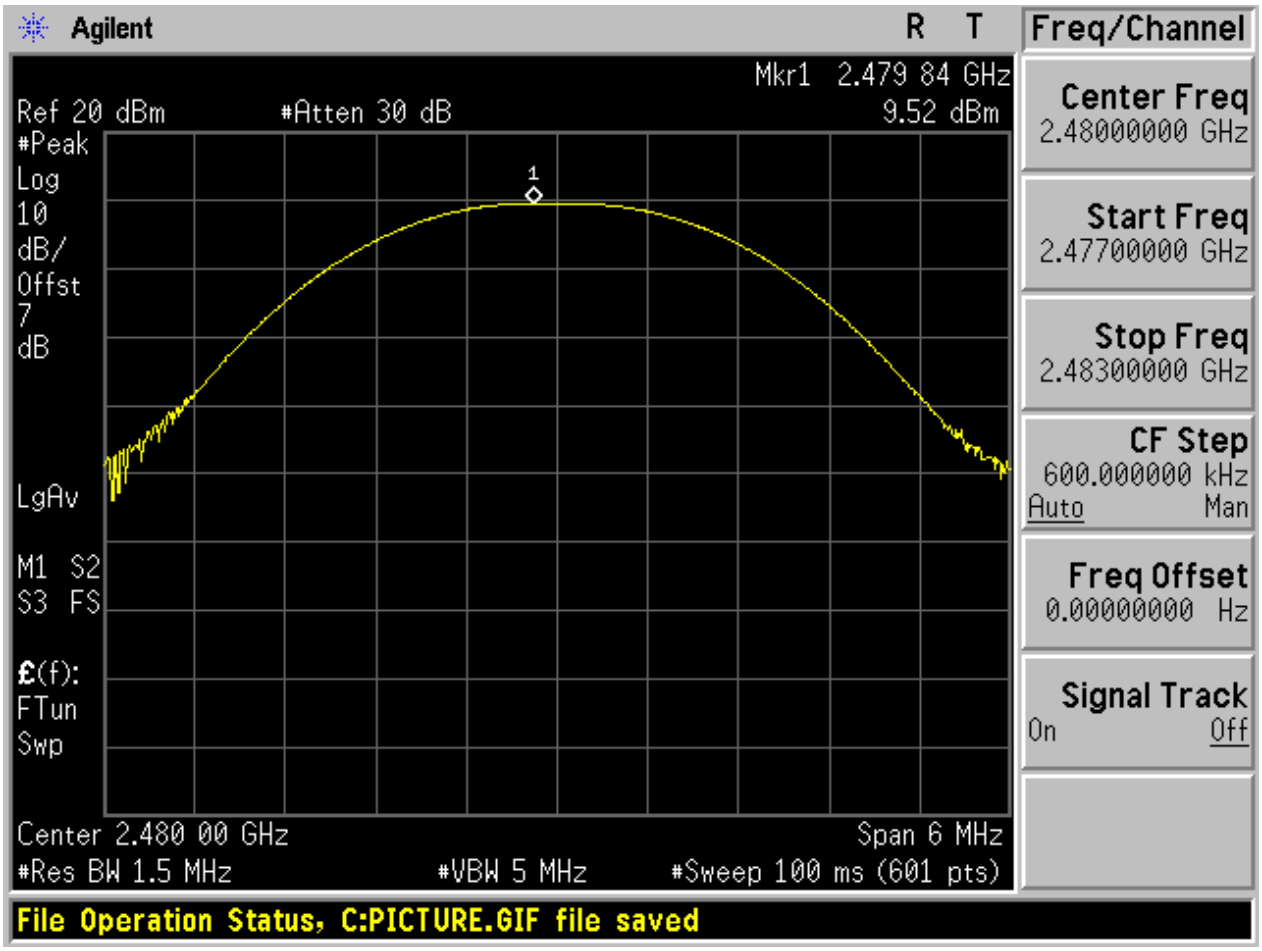
2.1 TM1_DH5_Ch0



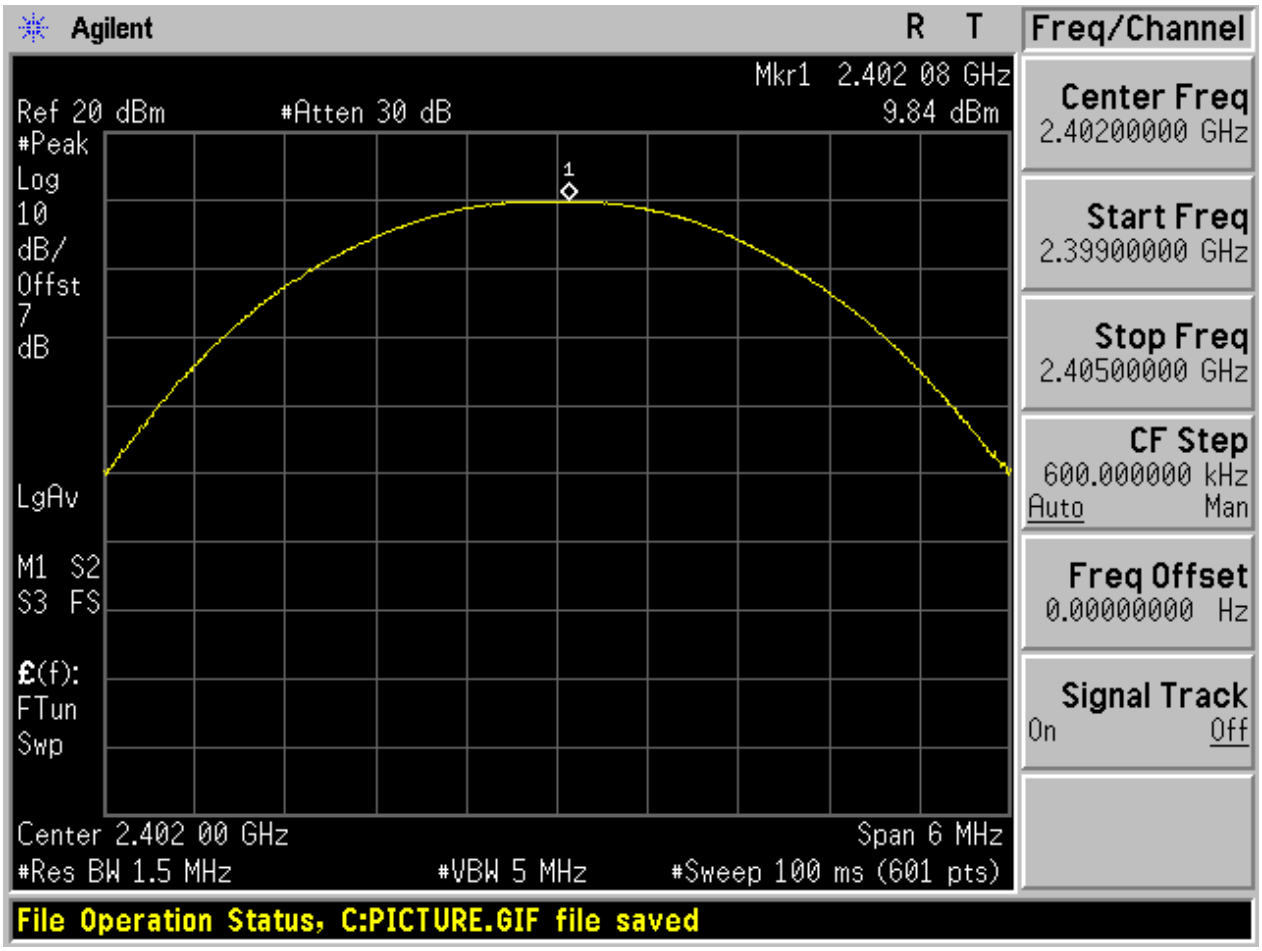
2.2 TM1_DH5_Ch39



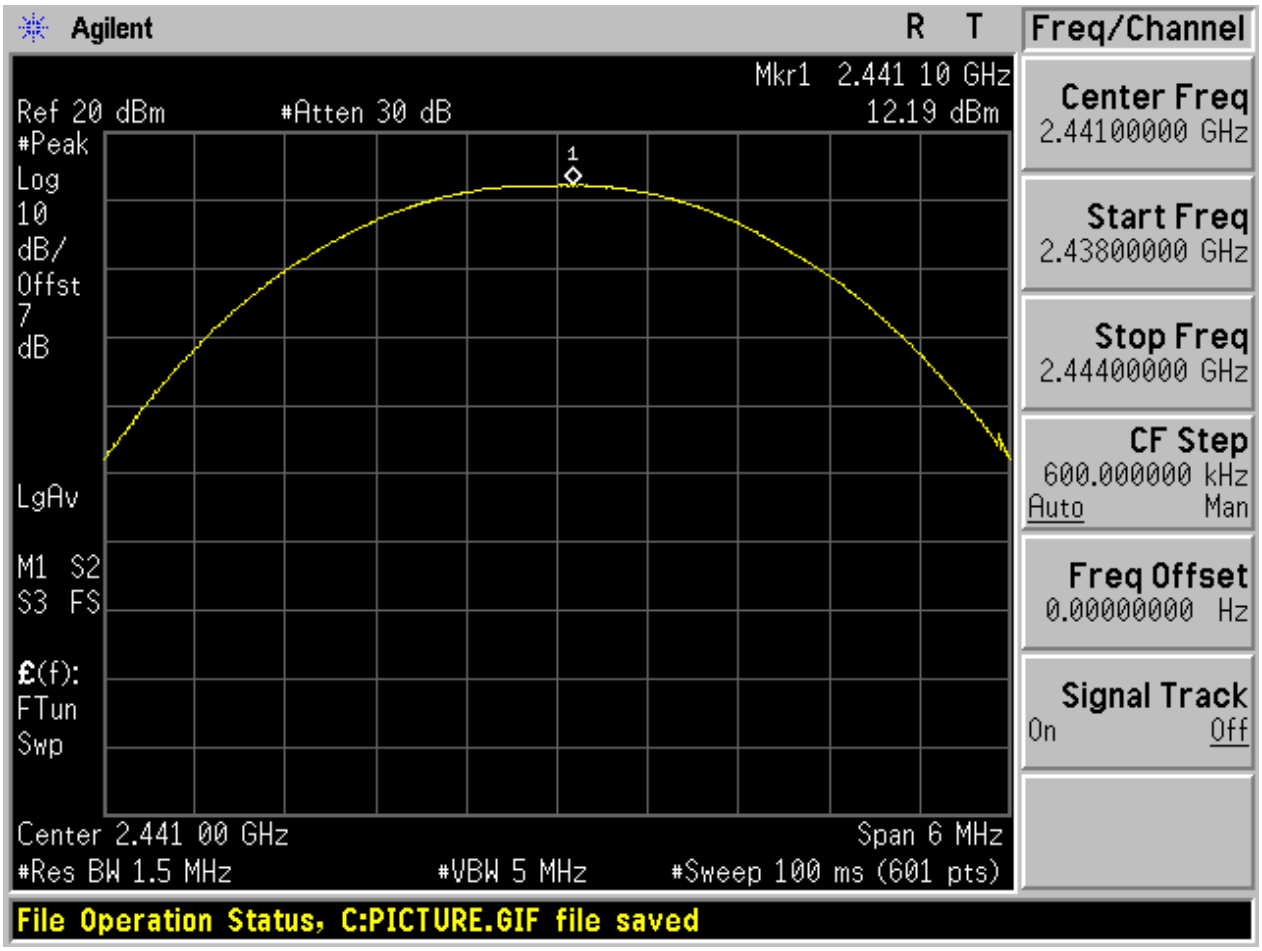
2.3 TM1_DH5_Ch78



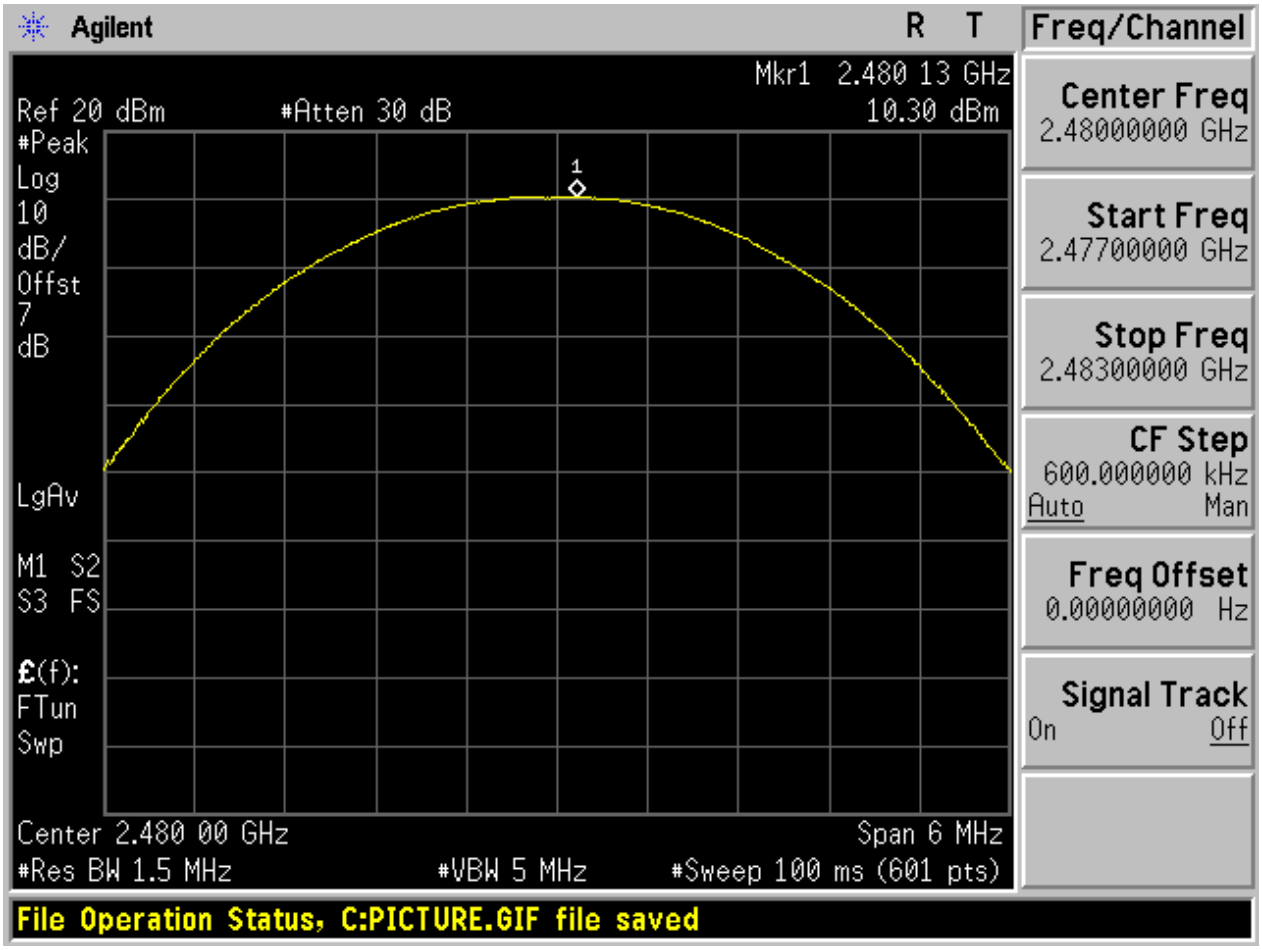
2.4 TM2_2DH5_Ch0



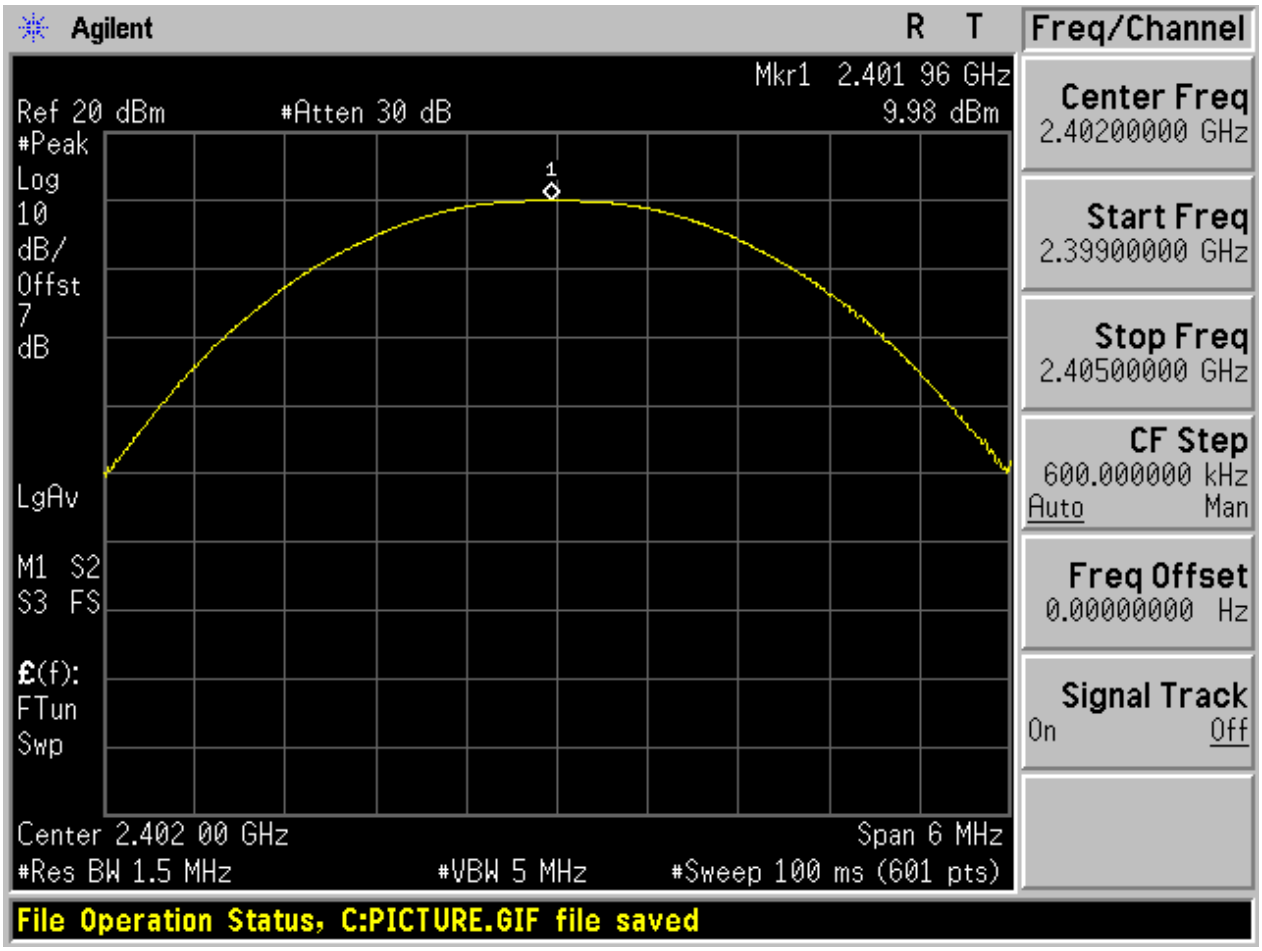
2.5 TM2_2DH5_Ch39



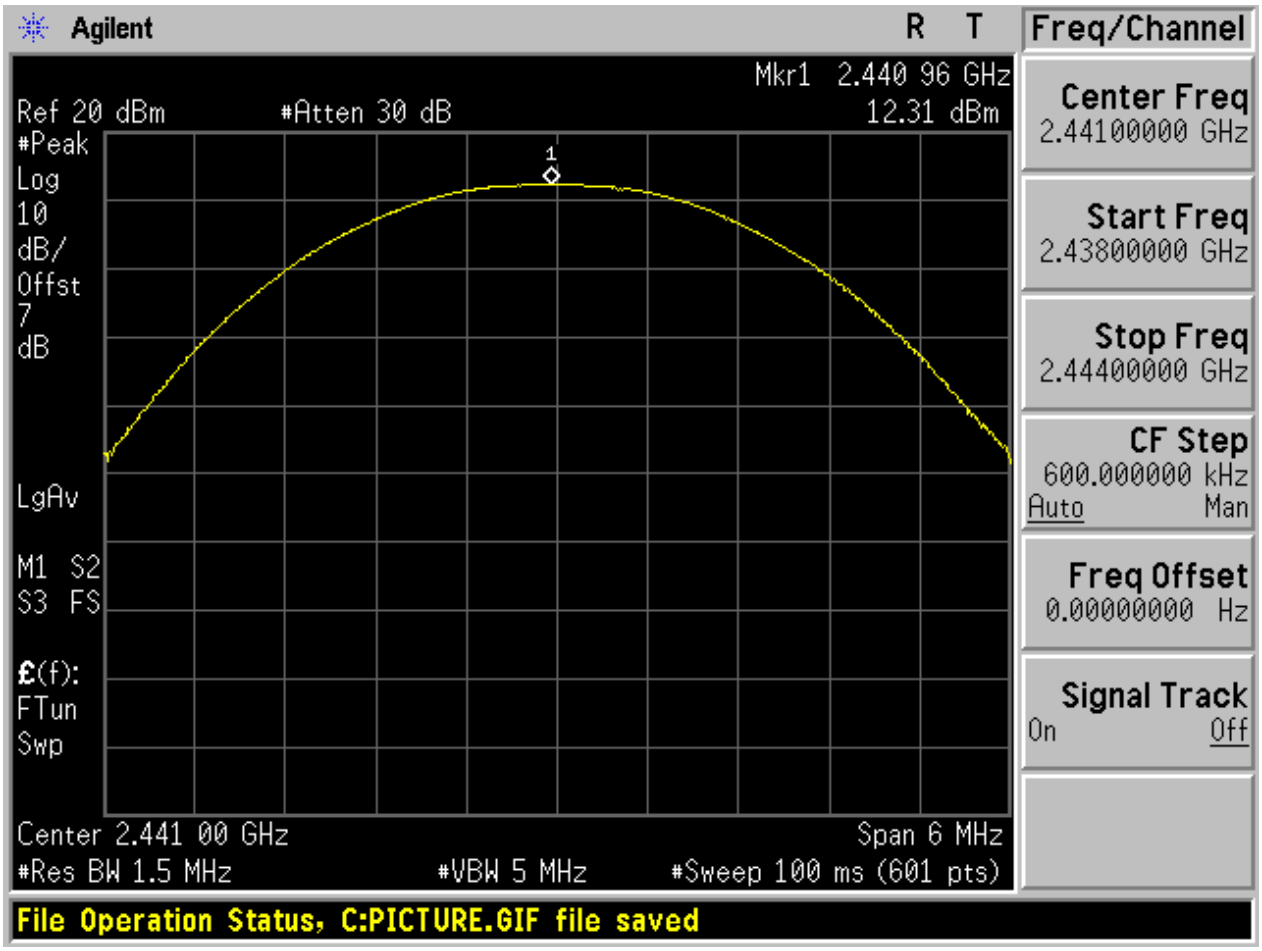
2.6 TM2_2DH5_Ch78



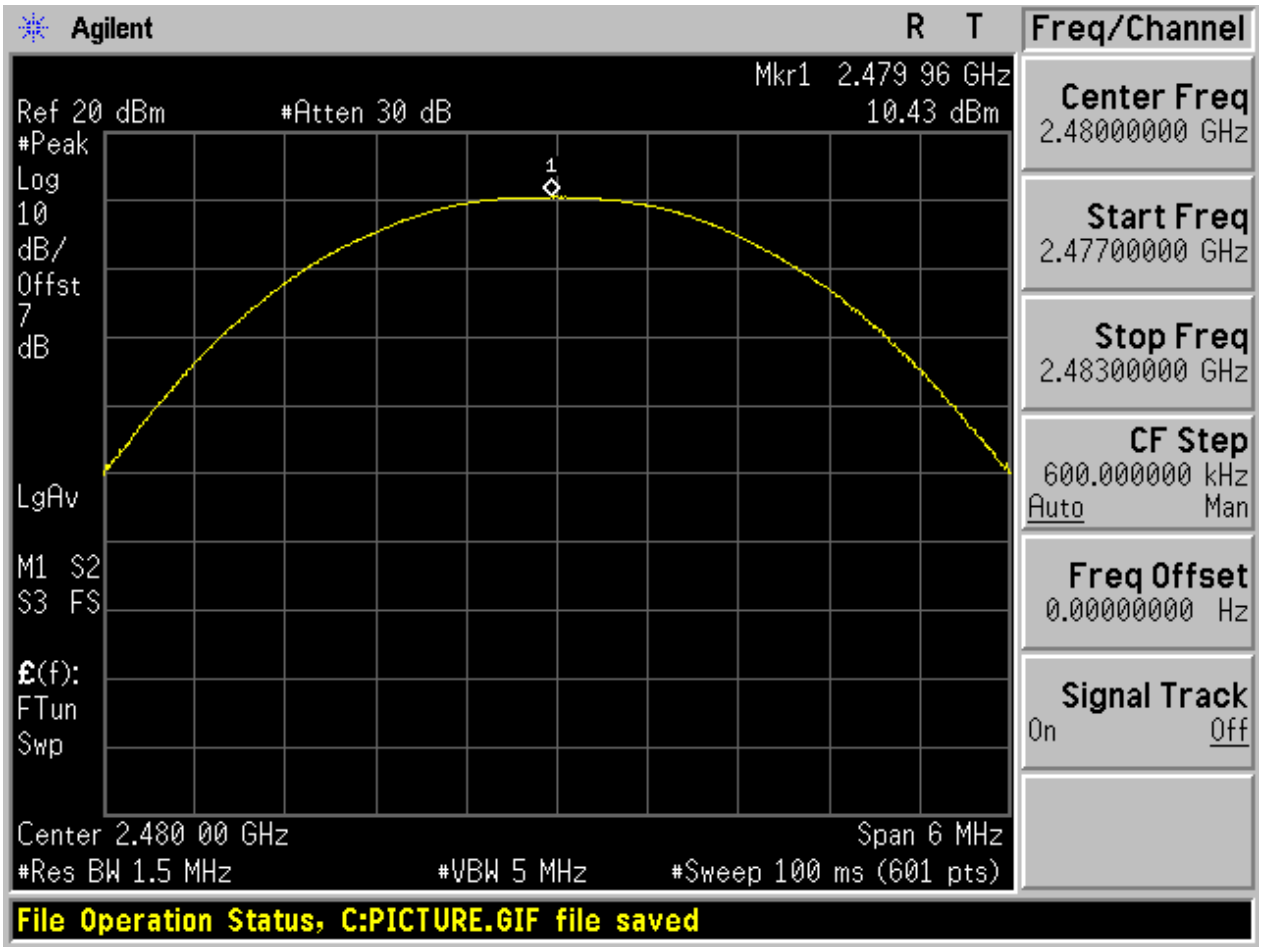
2.7 TM3_3DH5_Ch0



2.8 TM3_3DH5_Ch39



2.9 TM3_3DH5_Ch78



Appendix F: Band edge spurious emission

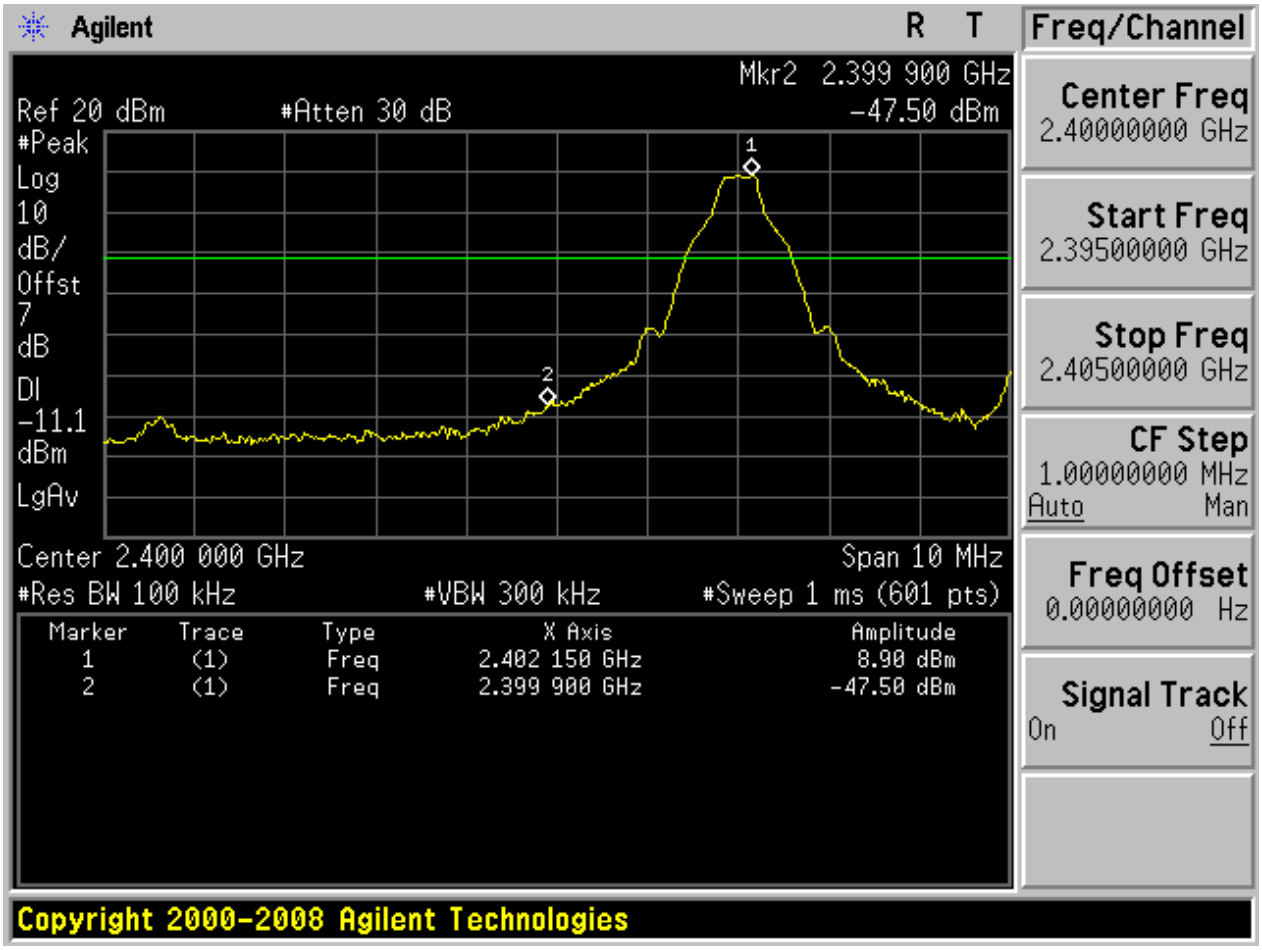
1 Result Table

EUT Conf.	Channel No.	Carrier Frequency [MHz]	Max. Spurious Level [dBm]	Frequency Hopping	Carrier Power [dBm]	Limit [dBm]	Result
TM1_DH5_Ch0	0	2402	-47.5	Off	8.89	-11.11	Pass
	-	-	-52.09	On	8.78	-11.22	Pass
TM1_DH5_Ch78	78	2480	-45.47	Off	9.40	-10.6	Pass
	-	-	-47.84	On	9.23	-10.77	Pass
TM2_2DH5_Ch0	0	2402	-48.48	Off	7.94	-12.06	Pass
	-	-	-54.14	On	7.84	-12.16	Pass
TM2_2DH5_Ch78	78	2480	-40.86	Off	8.41	-11.59	Pass
	-	-	-47.4	On	8.34	-11.66	Pass
TM3_3DH5_Ch0	0	2402	-50.41	Off	7.94	-12.06	Pass
	-	-	-53.51	On	7.99	-12.01	Pass
TM3_3DH5_Ch78	78	2480	-42.1	Off	8.39	-11.61	Pass
	-	-	-43.08	On	8.06	-11.94	Pass

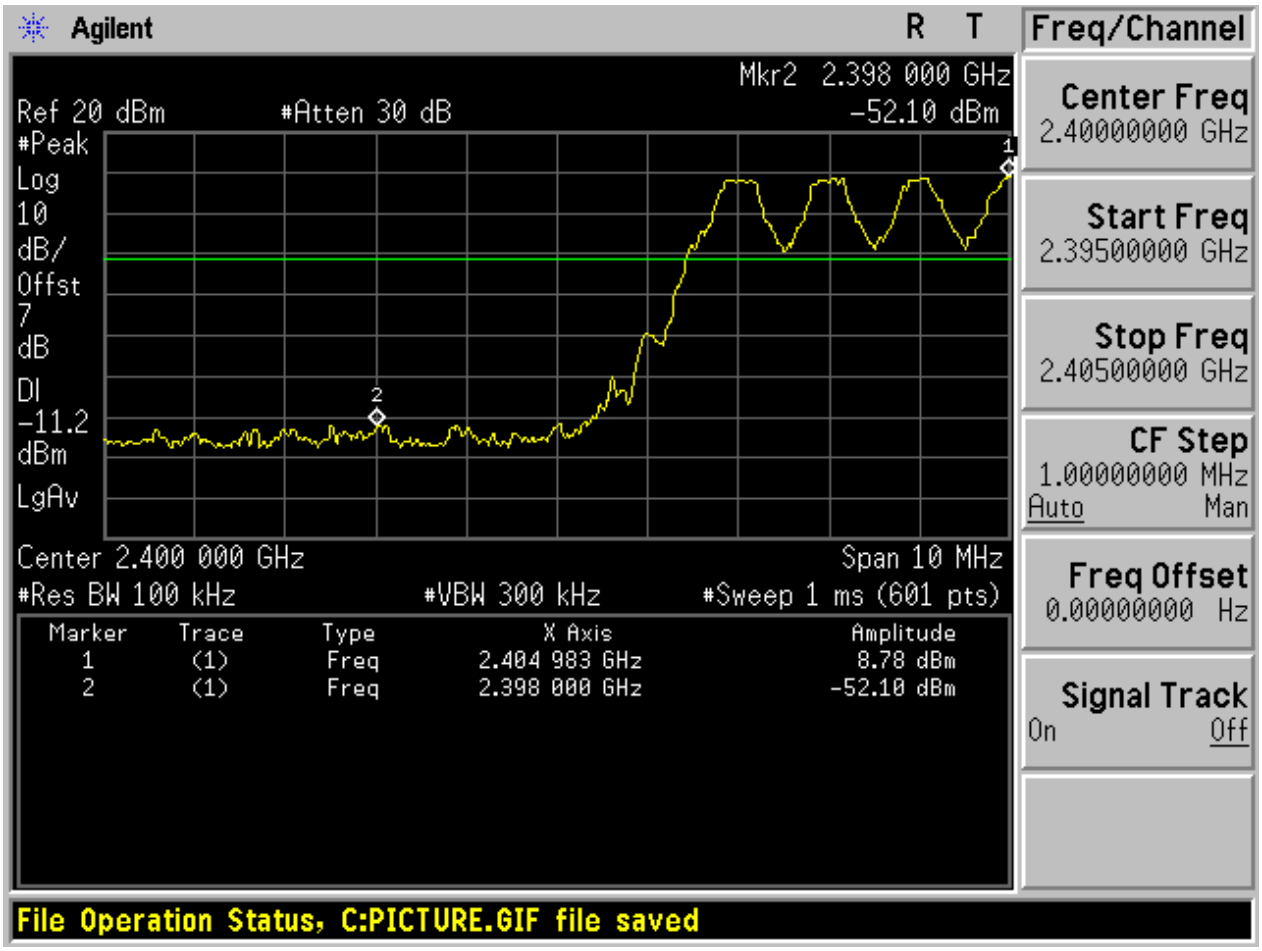
2 Test Plot

2.1 TM1_DH5_Ch0

No hopping

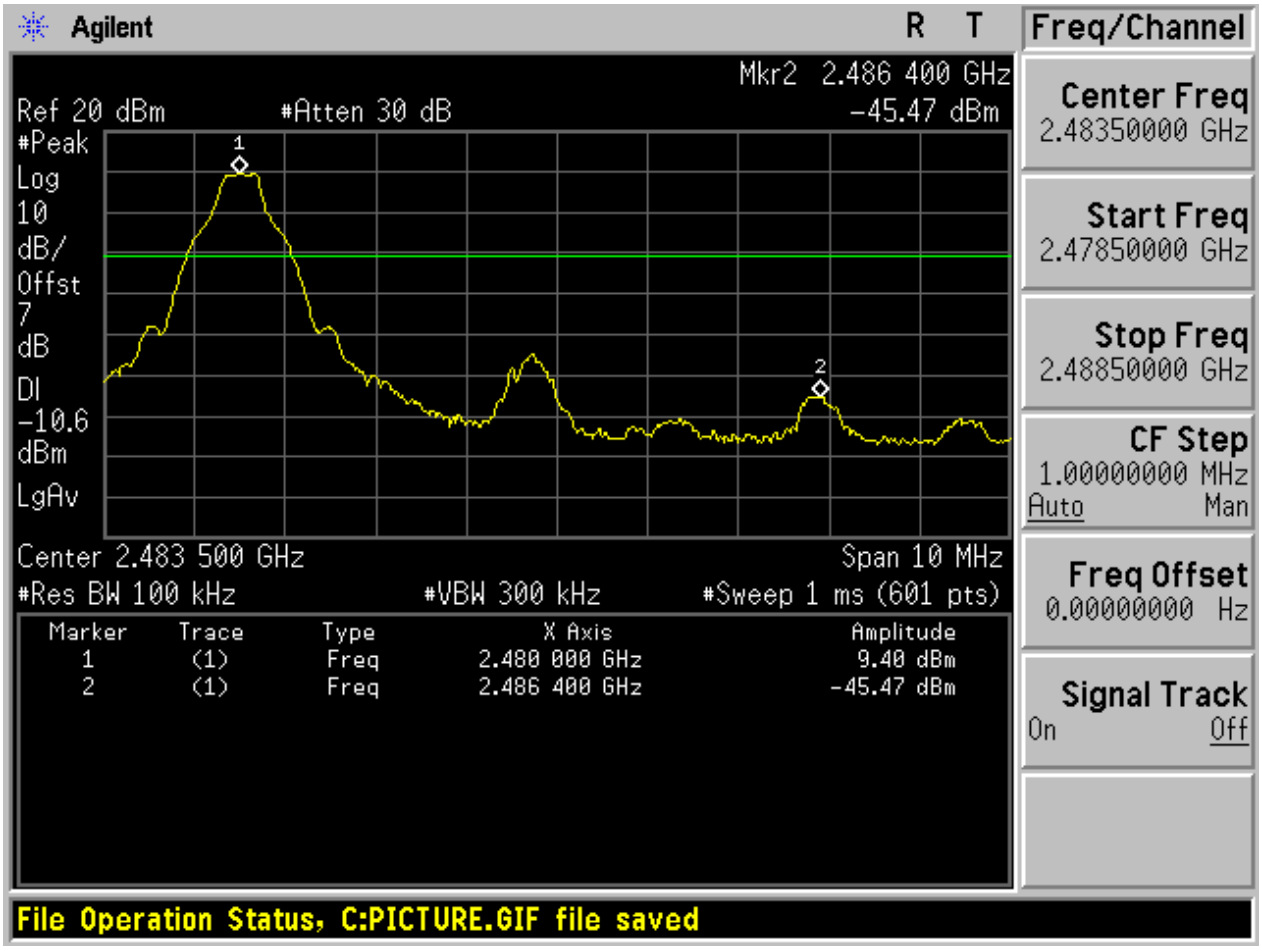


With hopping

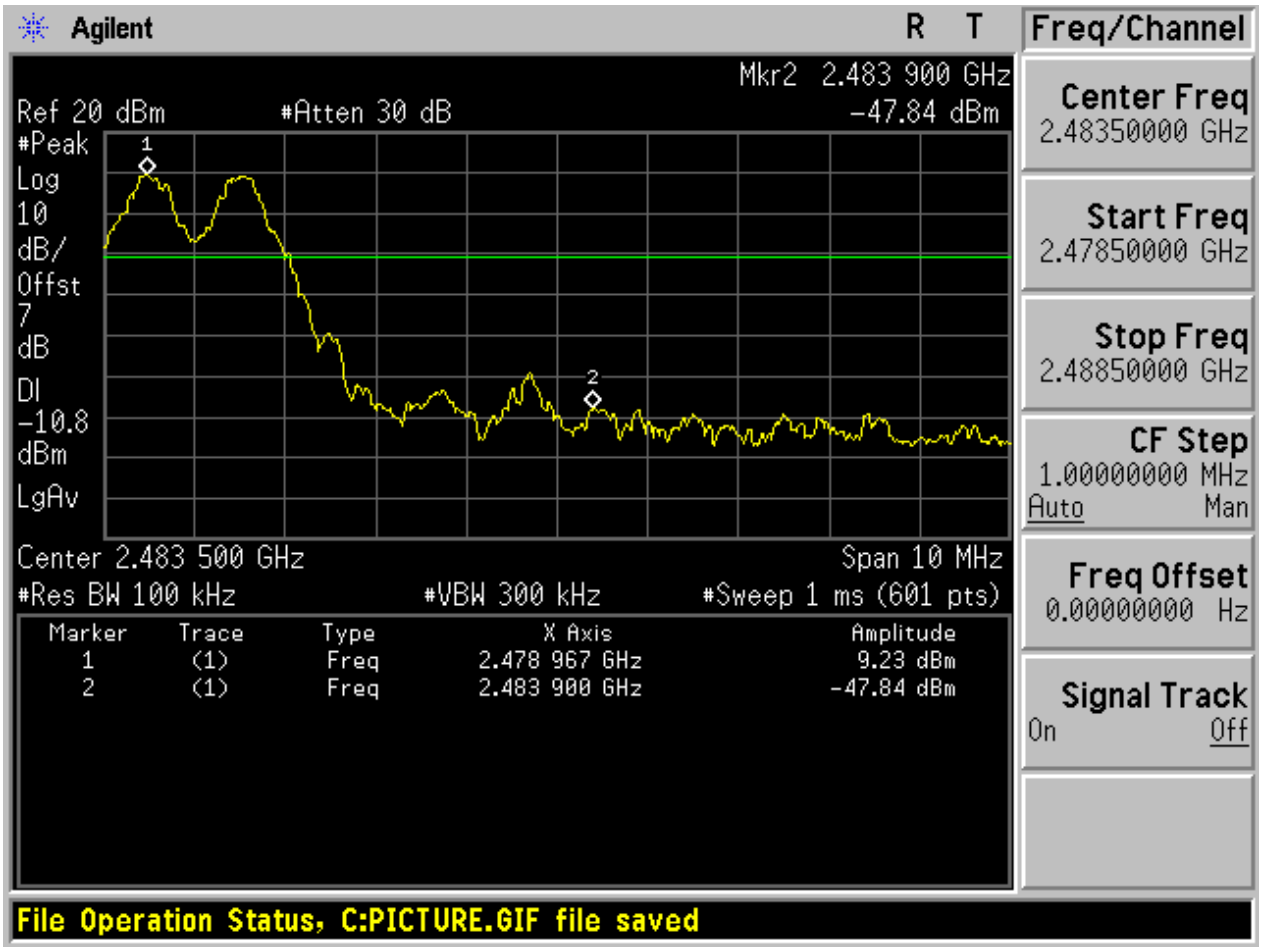


2.2 TM1_DH5_Ch78

No hopping

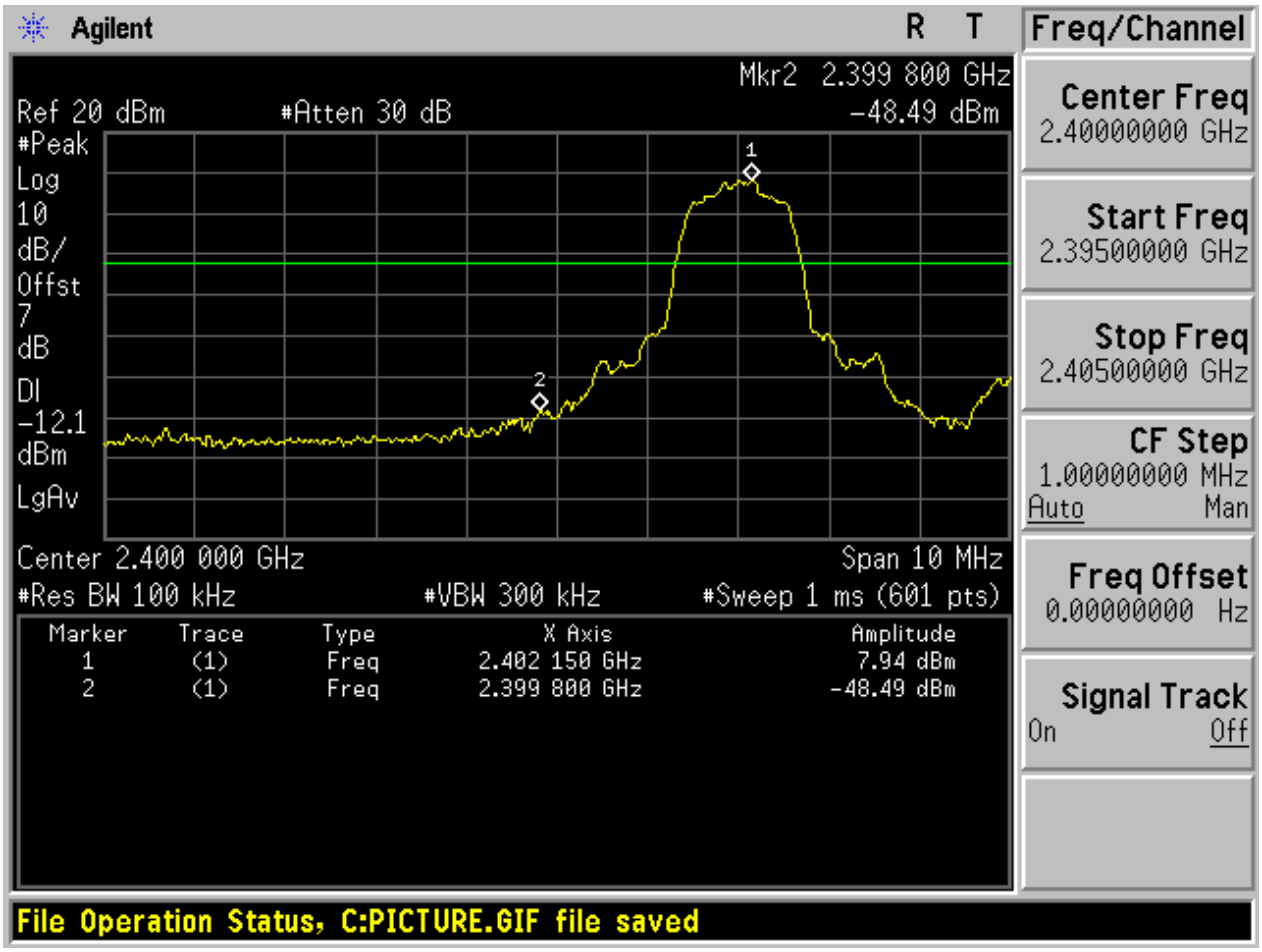


With hopping

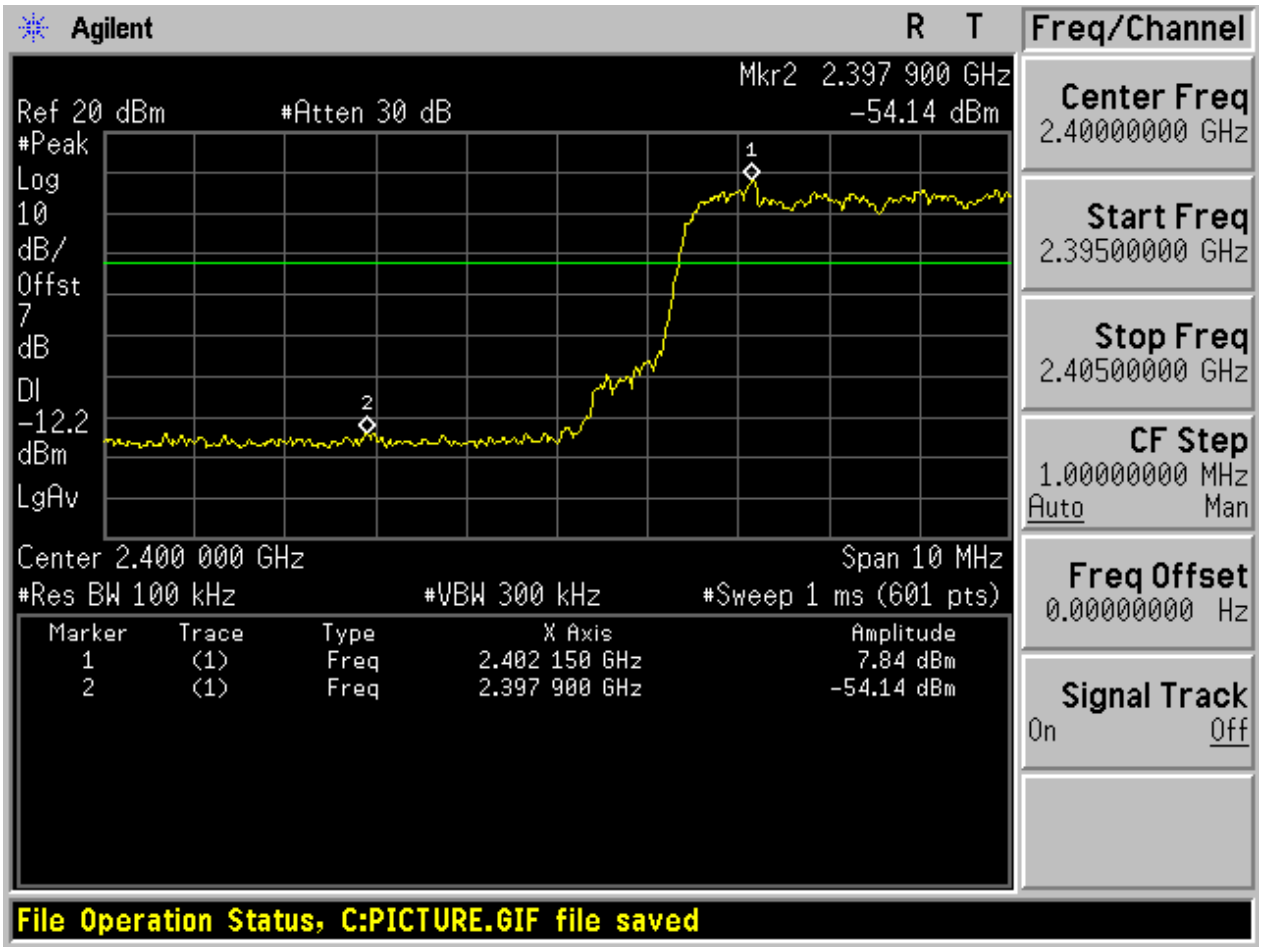


2.3 TM2_2DH5_Ch0

No hopping

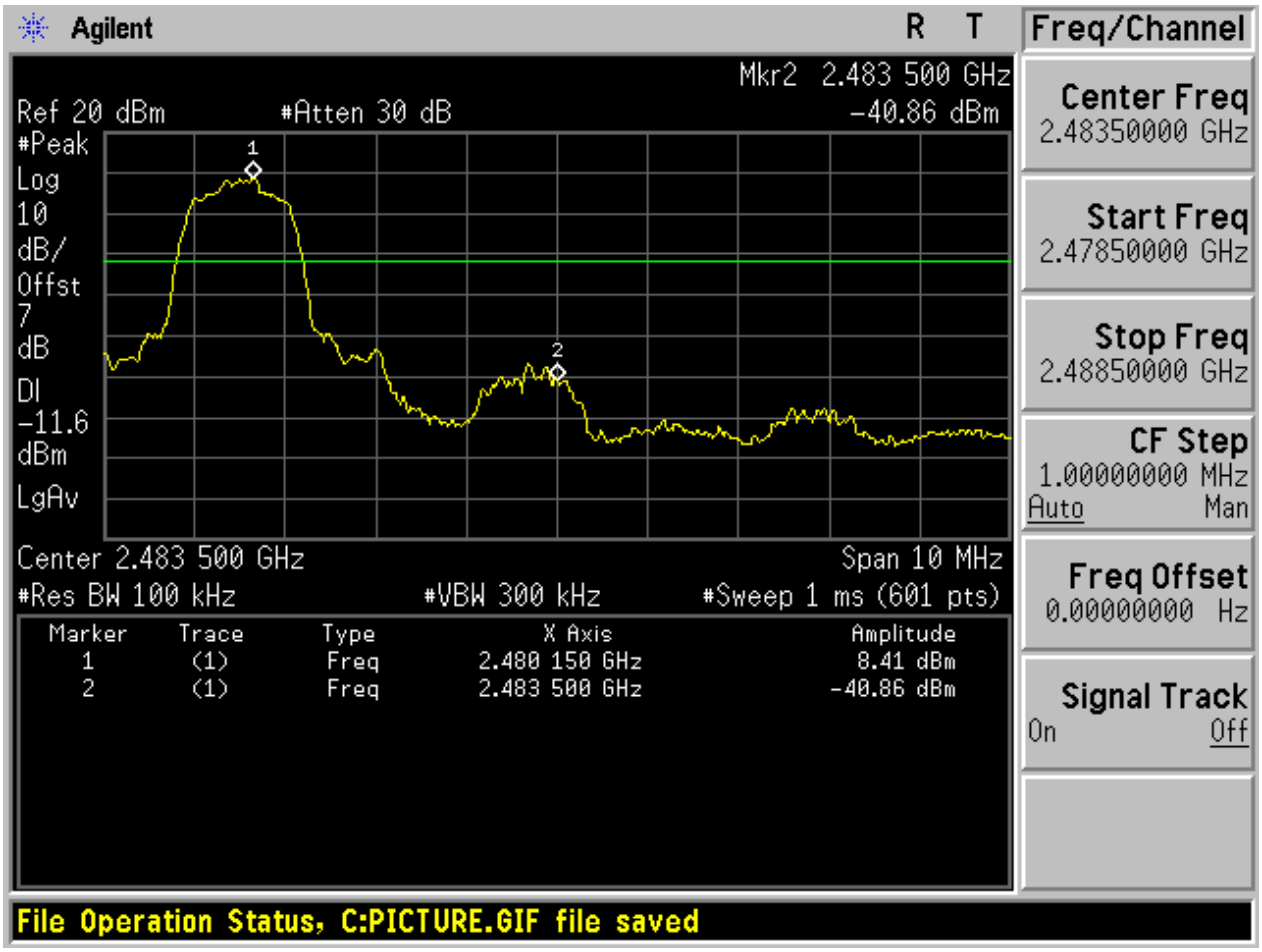


With hopping

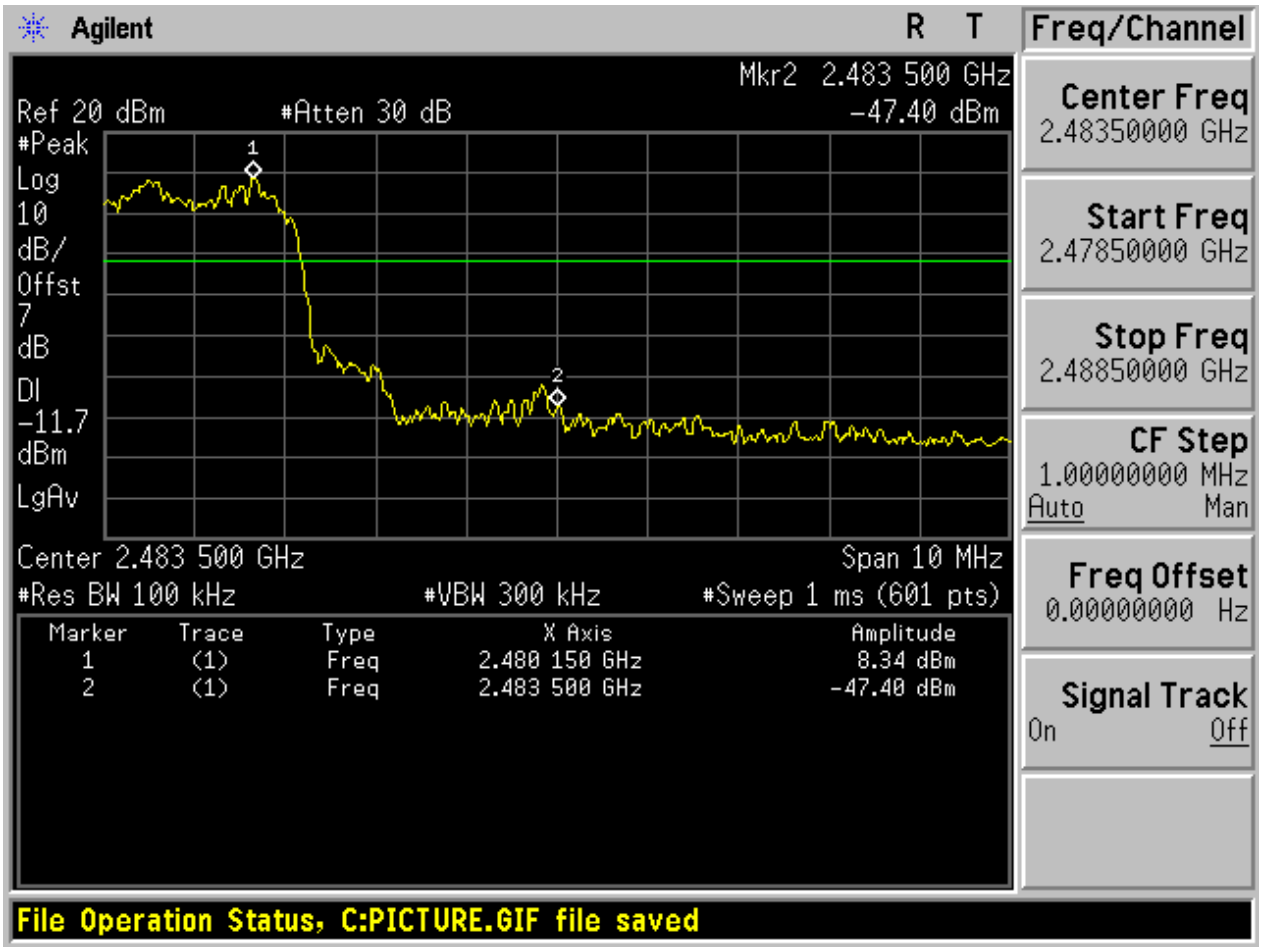


2.4 TM2_2DH5_Ch78

No hopping

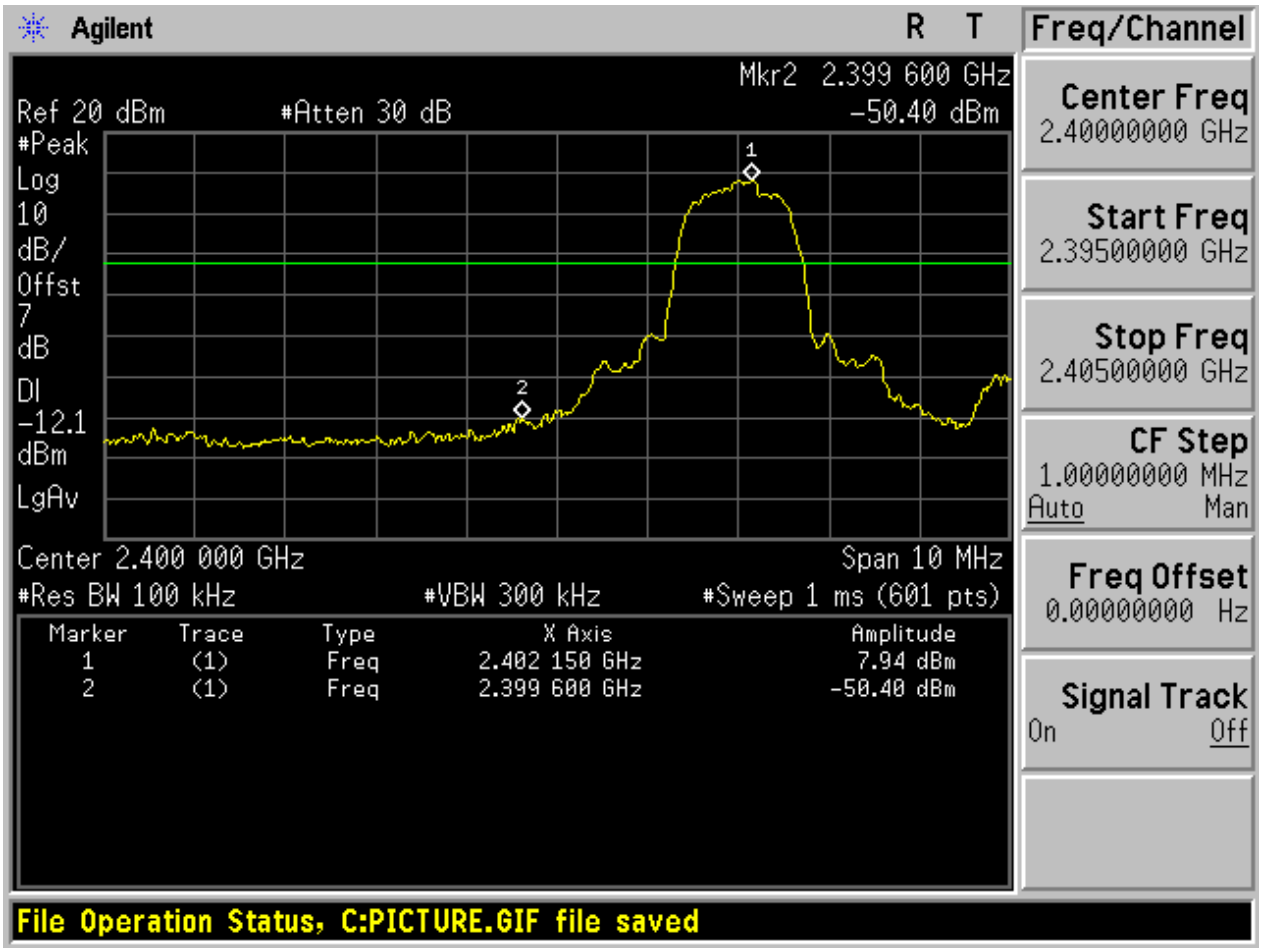


With hopping

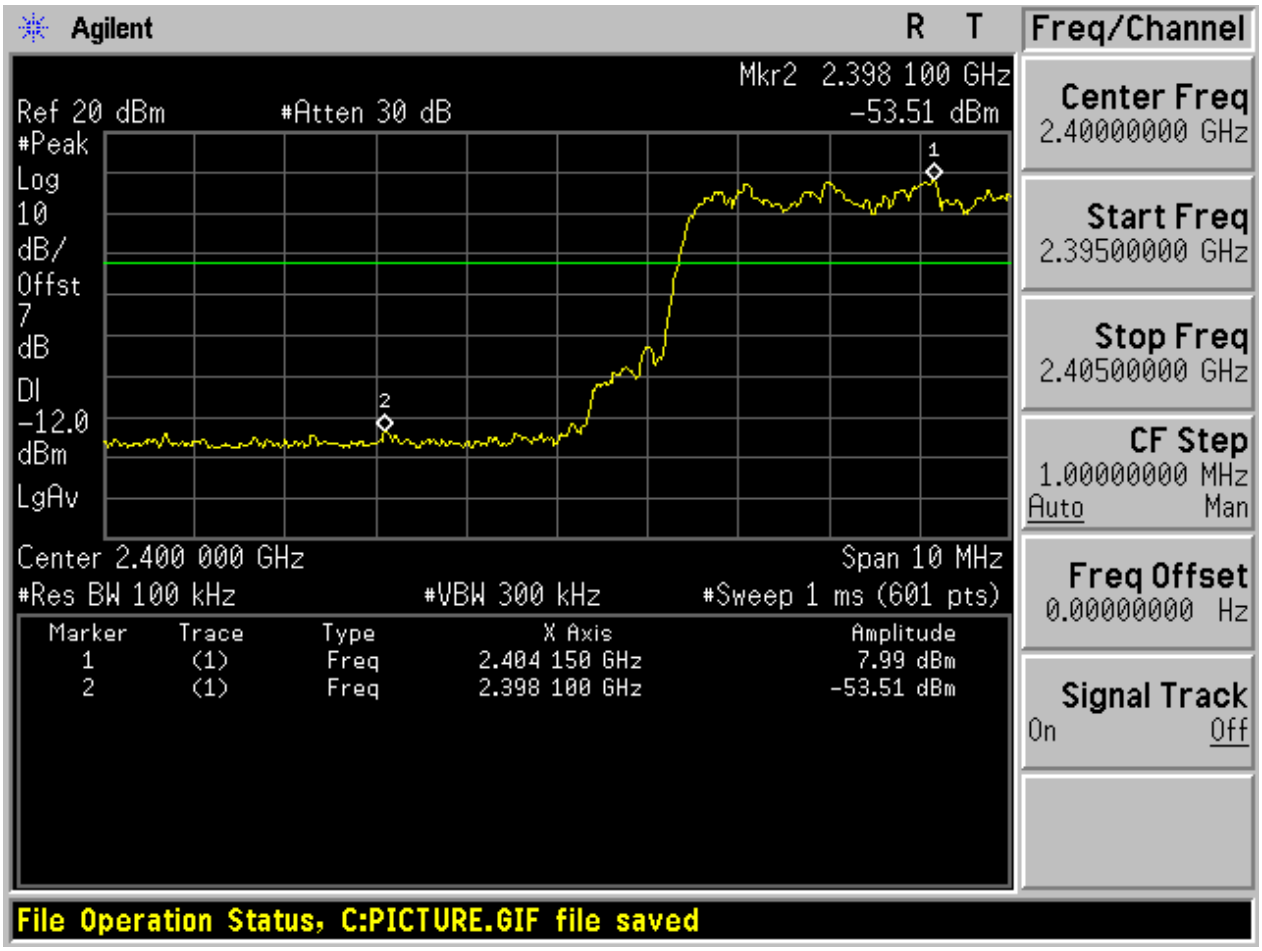


2.5 TM3_3DH5_Ch0

No hopping

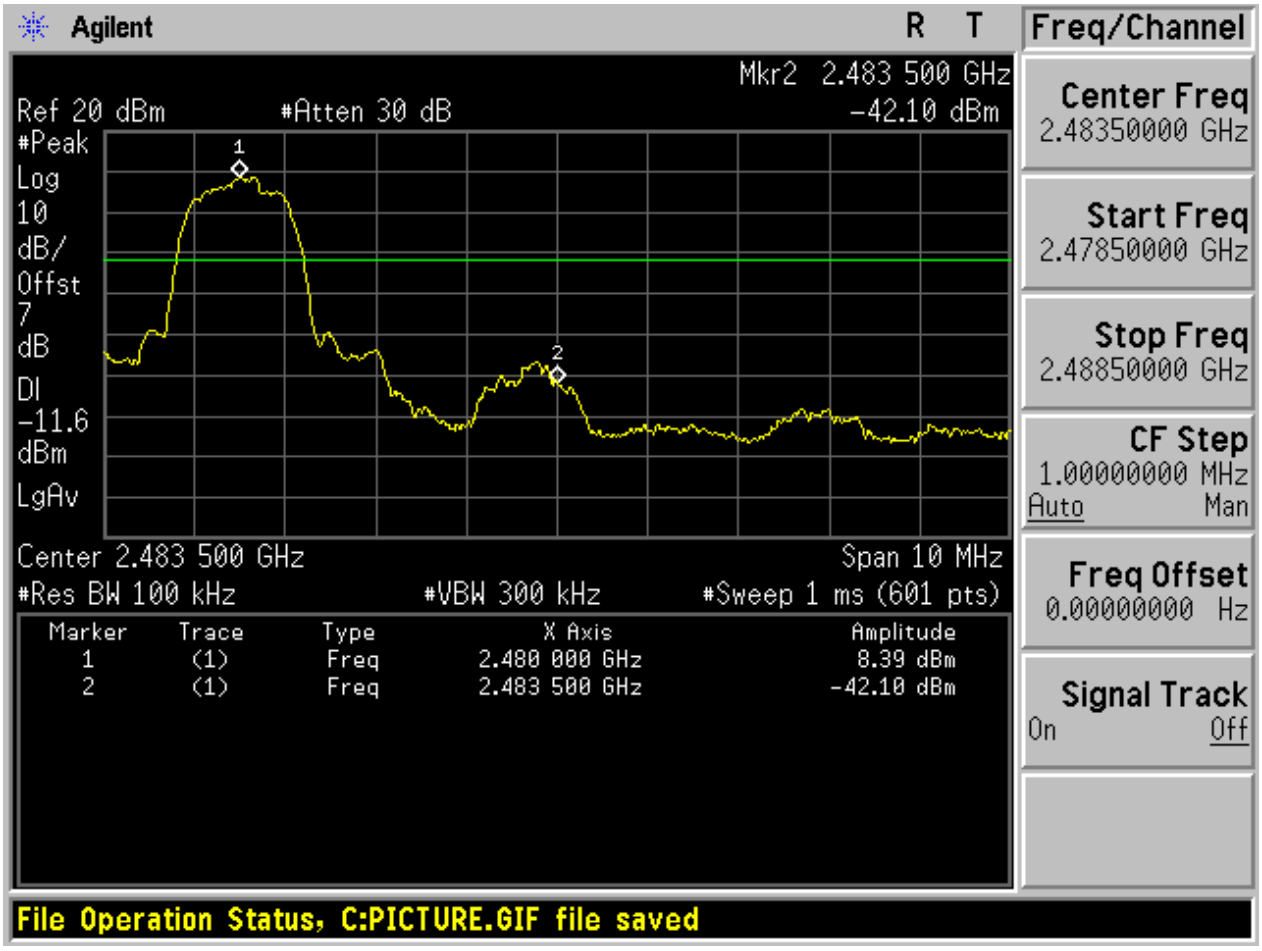


With hopping

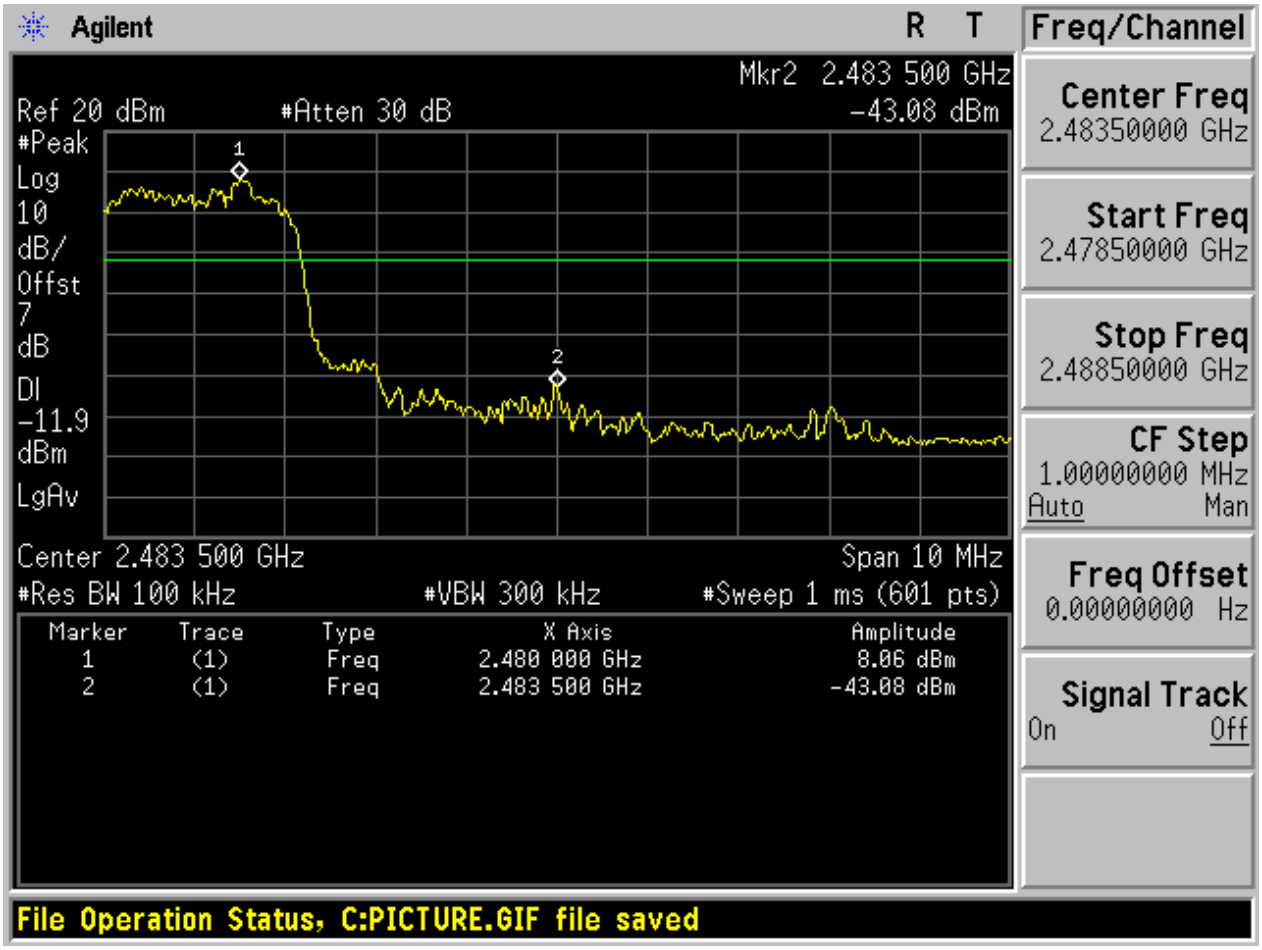


2.6 TM3_3DH5_Ch78

No hopping



With hopping



Appendix G: Conducted RF Spurious Emission

1 Result Table

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

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

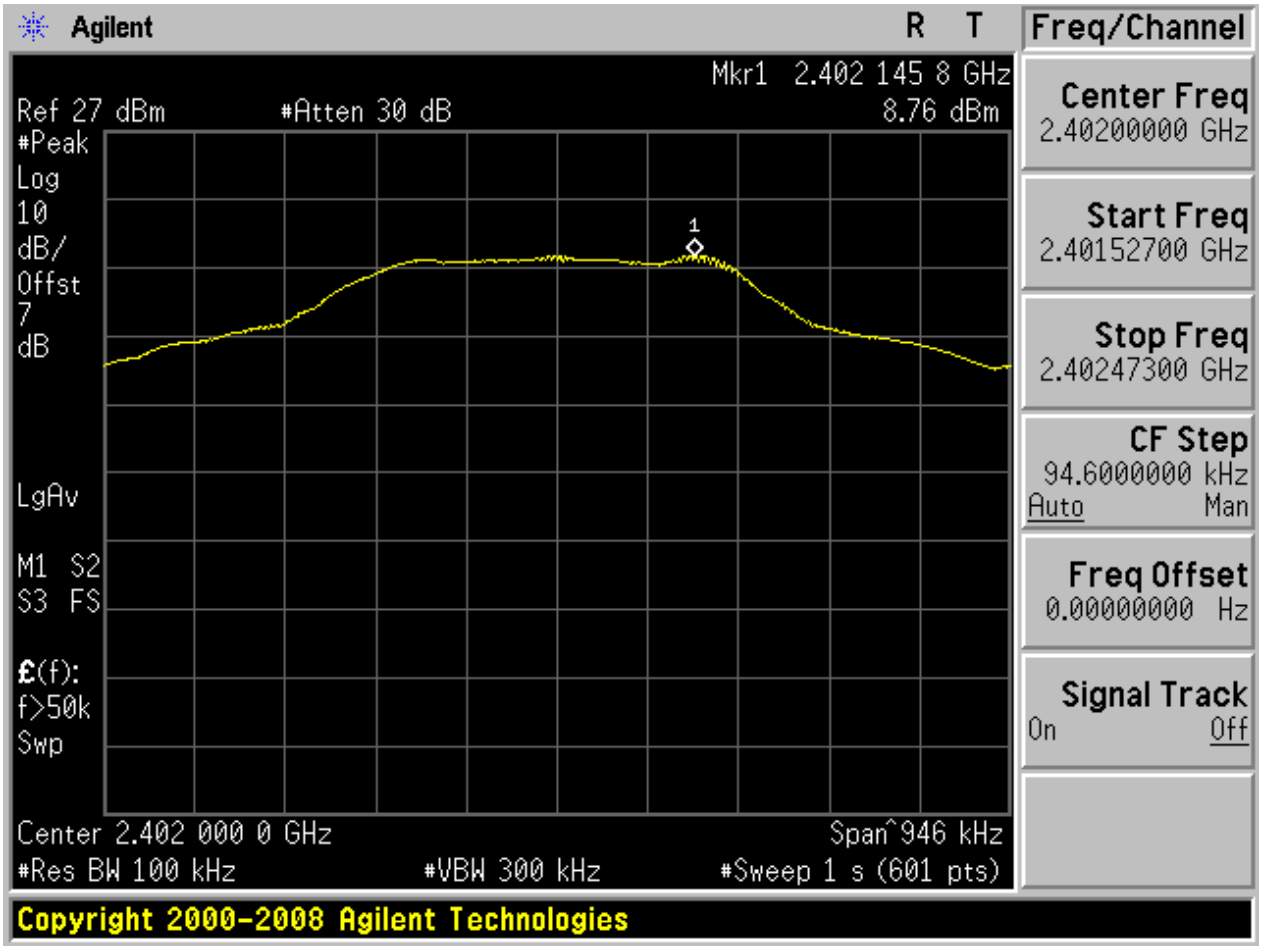
In the result table, the “< Limit” denotes that “The Puw [dBm] is less than Pref [dBm] - 20 [dB], see test plots for detailed”.

EUT Conf.	Pref [dBm/100 kHz]	Puw [dBm/100 kHz]	Verdict
TM1_DH5_Ch0	8.76	< Limit	Pass
TM1_DH5_Ch39	11.19	< Limit	Pass
TM1_DH5_Ch78	9.29	< Limit	Pass
TM2_2DH5_Ch0	7.77	< Limit	Pass
TM2_2DH5_Ch39	10.24	< Limit	Pass
TM2_2DH5_Ch78	8.32	< Limit	Pass
TM3_3DH5_Ch0	7.79	< Limit	Pass
TM3_3DH5_Ch39	10.24	< Limit	Pass
TM3_3DH5_Ch78	8.33	< Limit	Pass

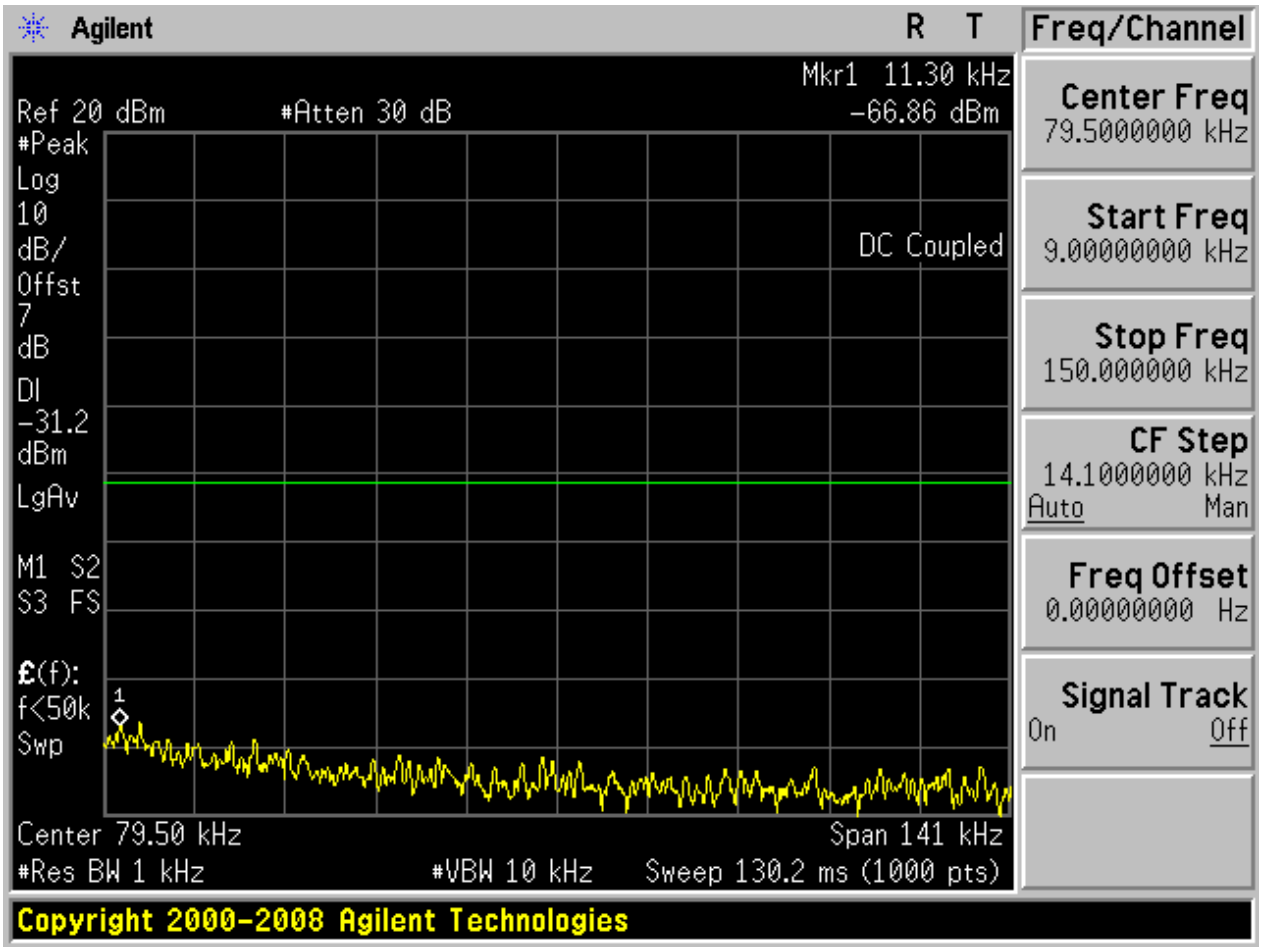
2 Test Plot

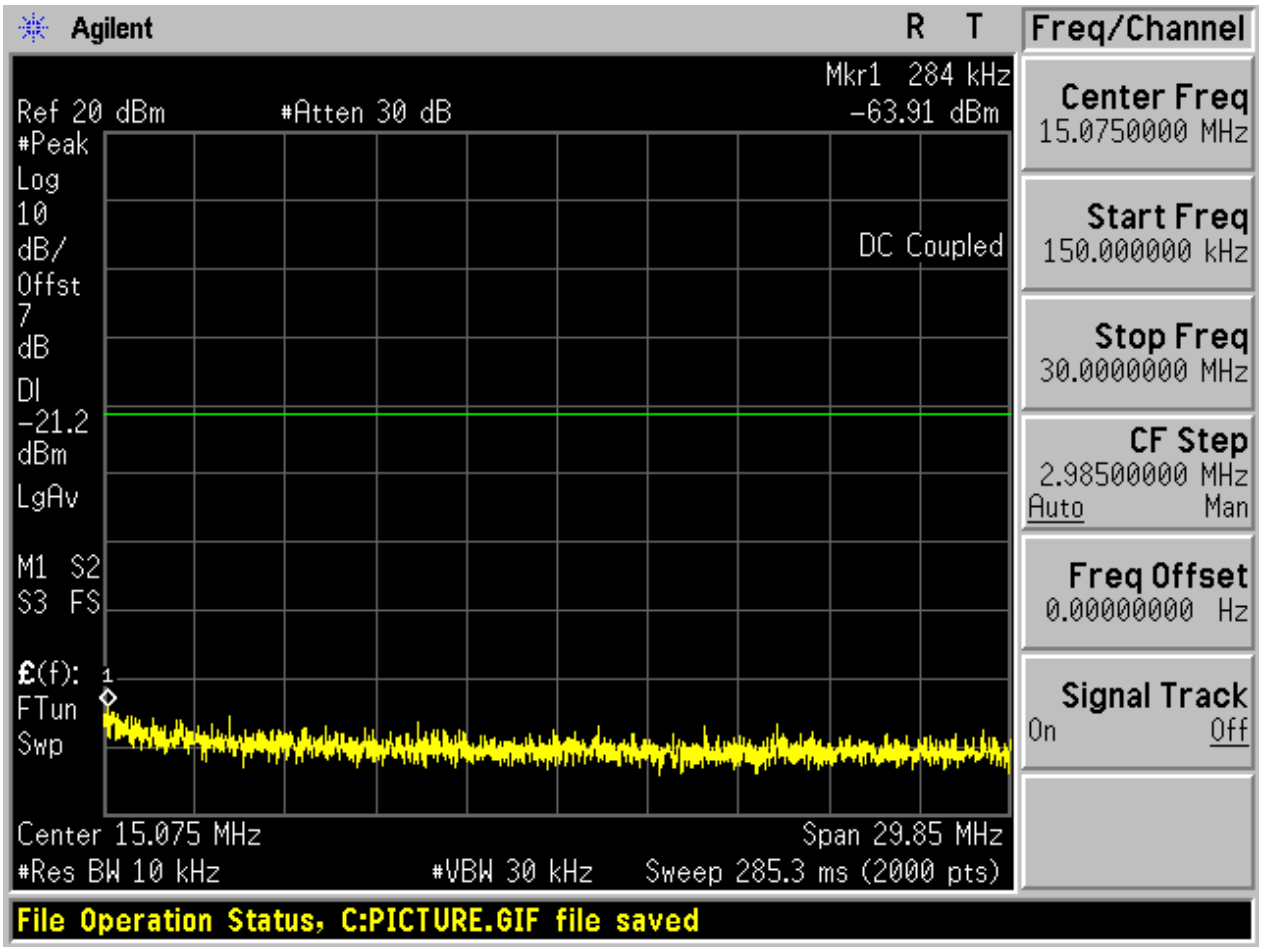
2.1 TM1_DH5_Ch0

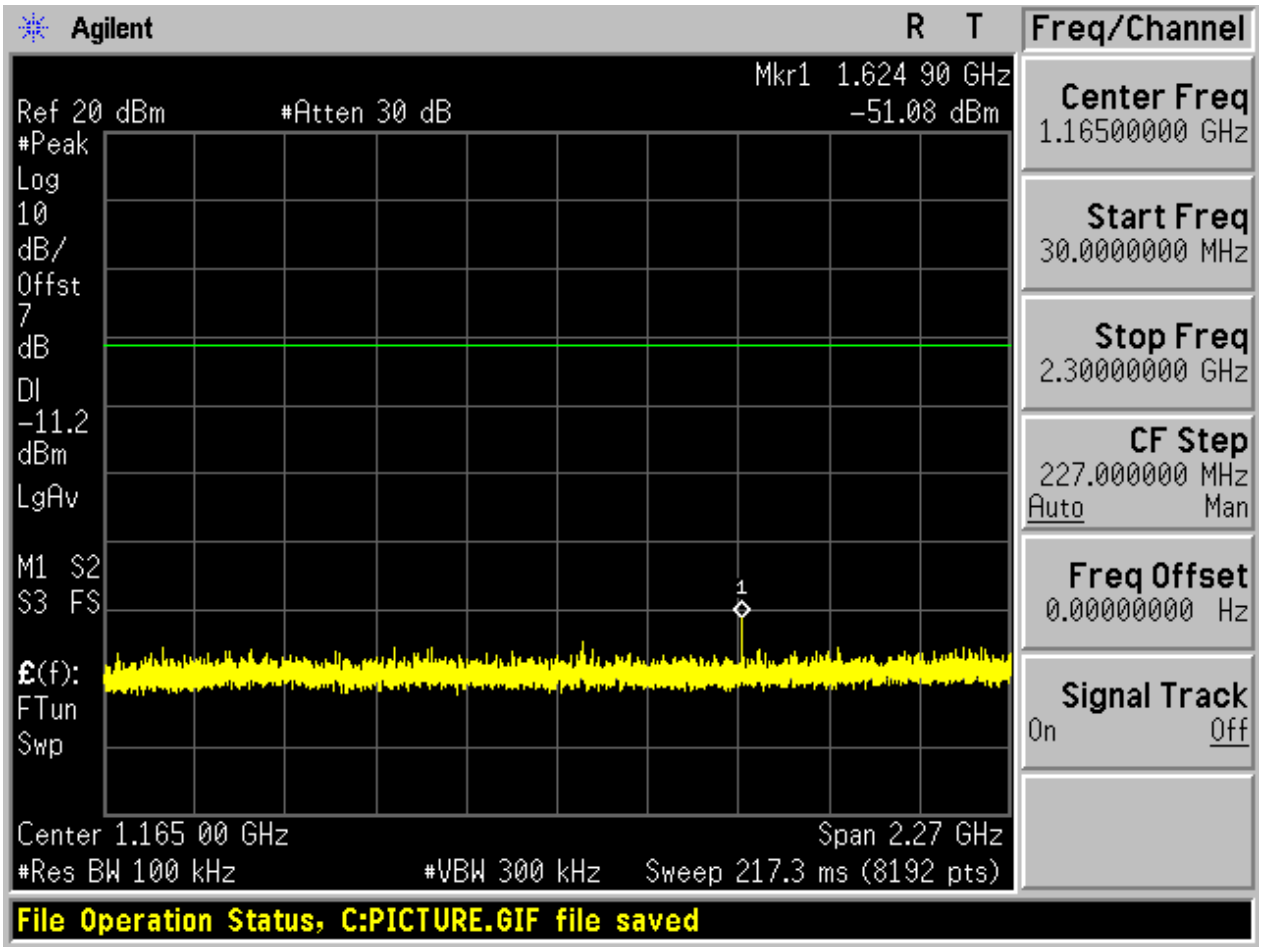
2.1.1 Pref

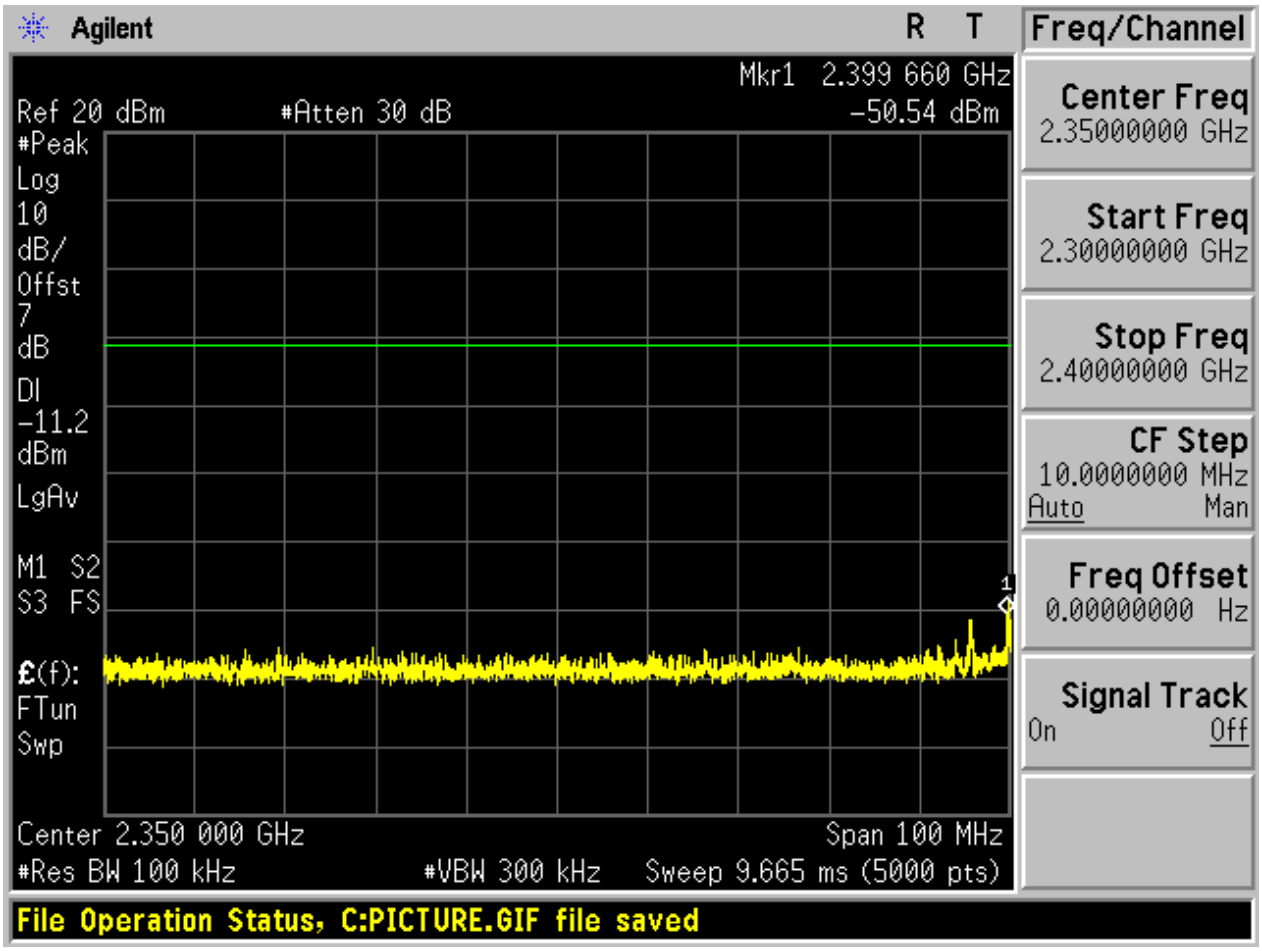


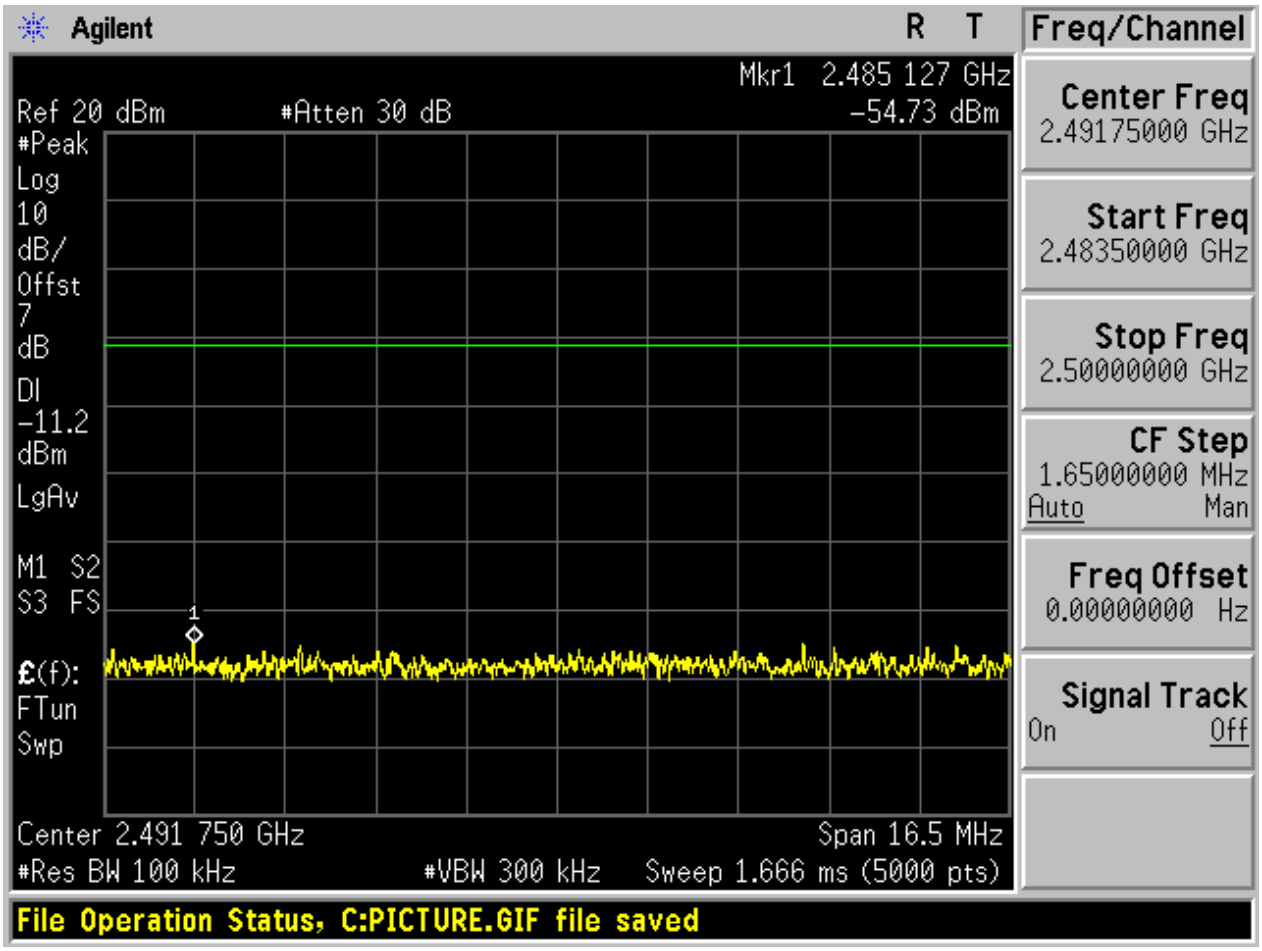
2.1.2 Puw

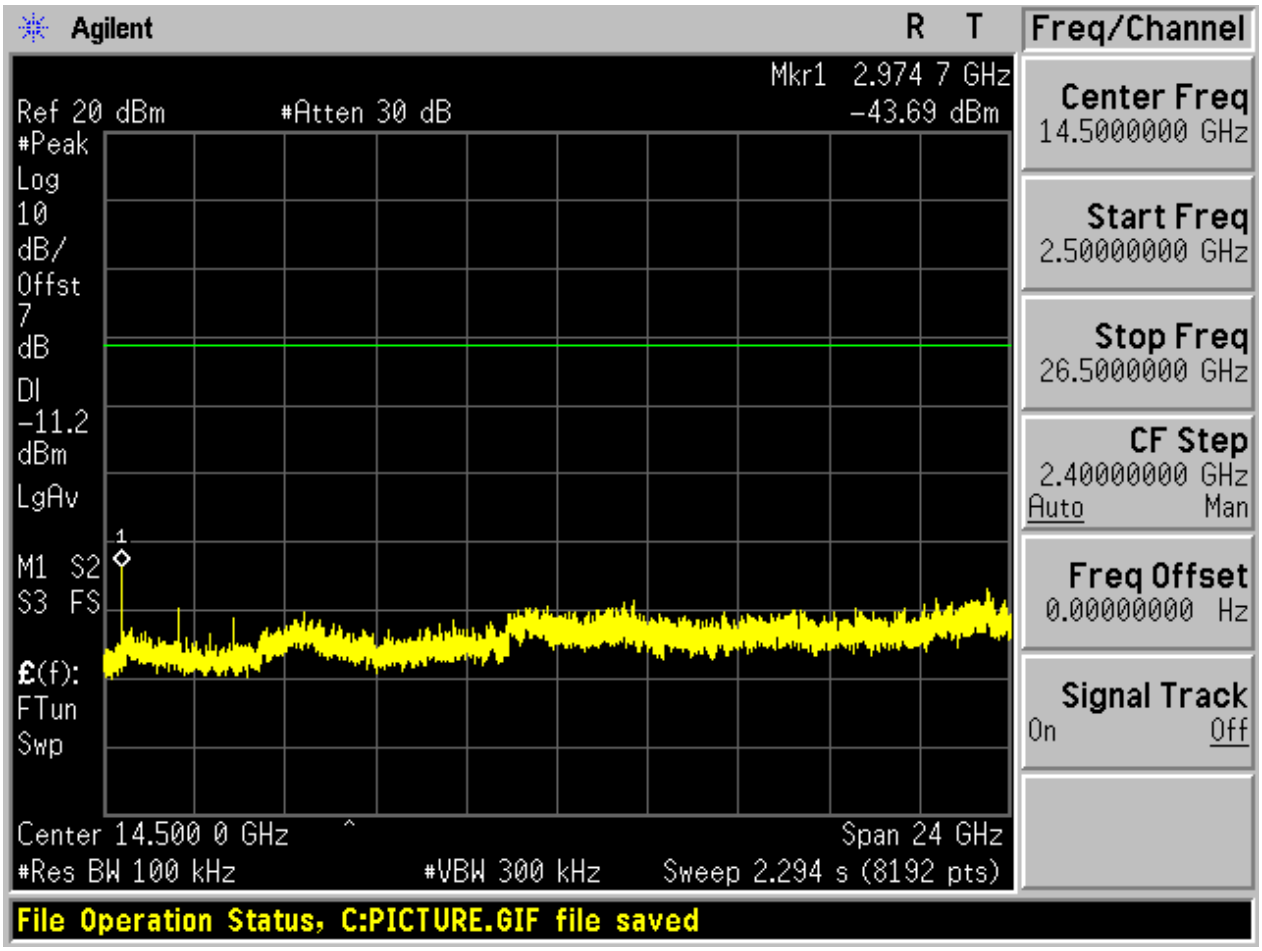






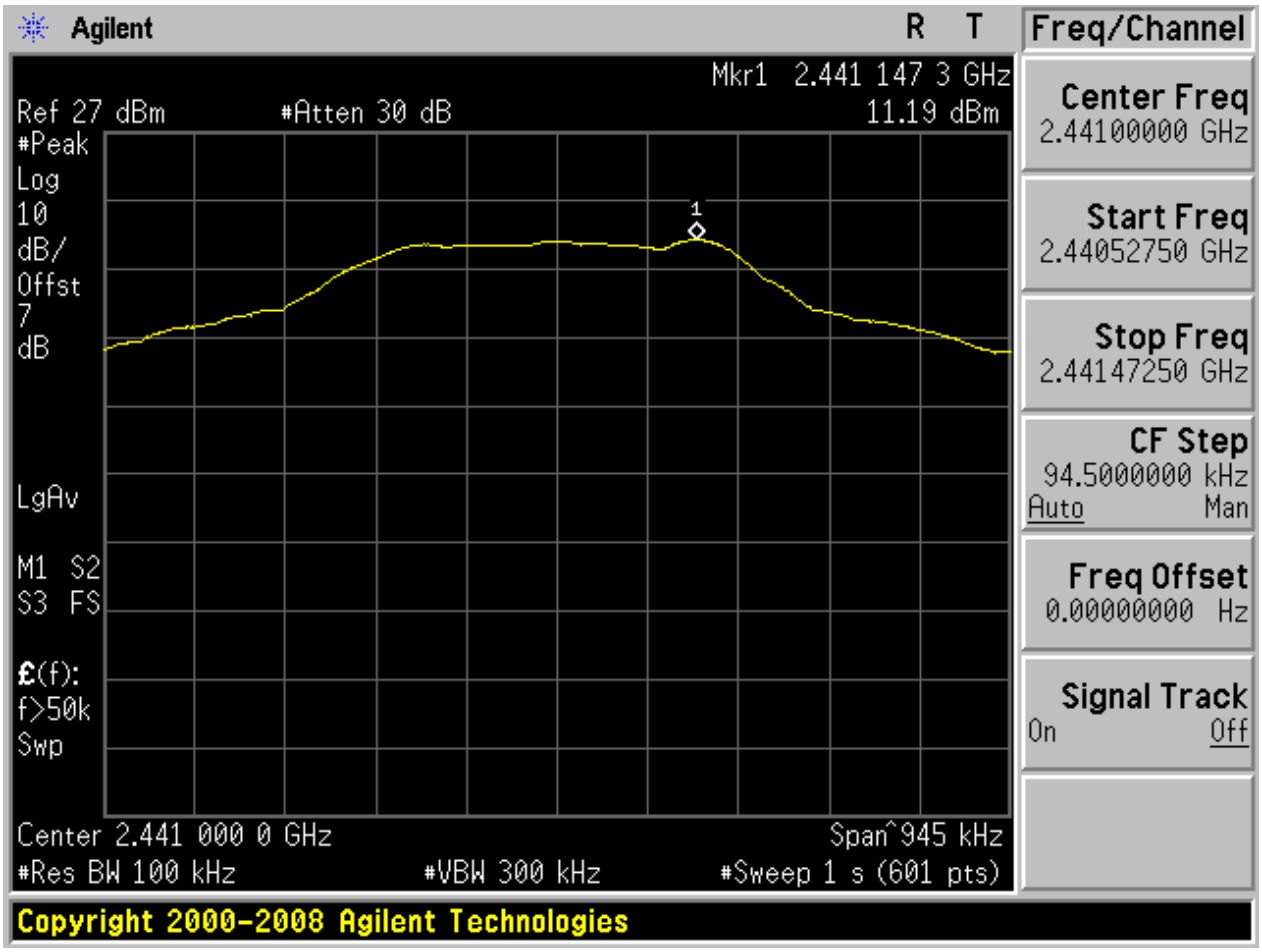




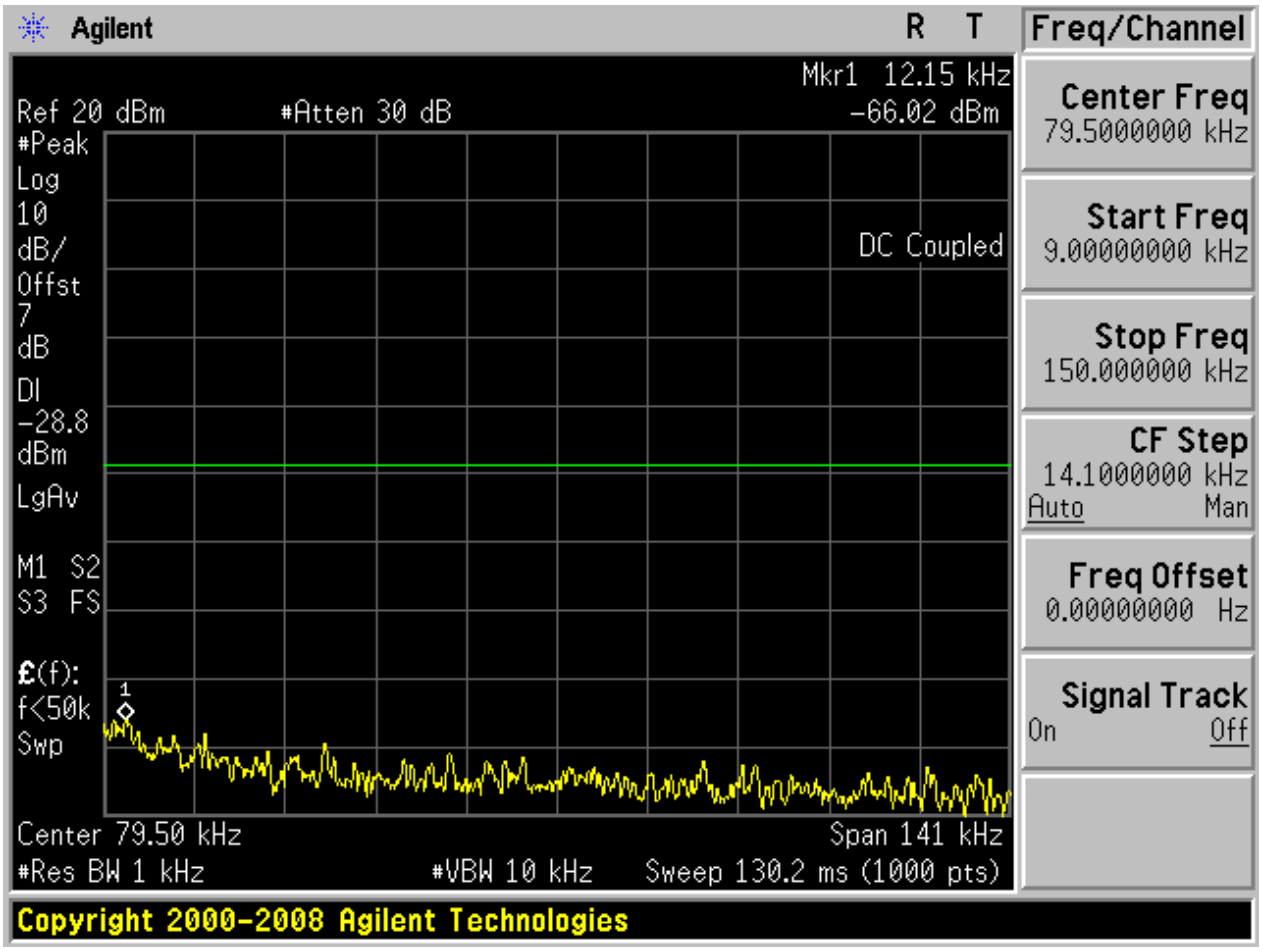


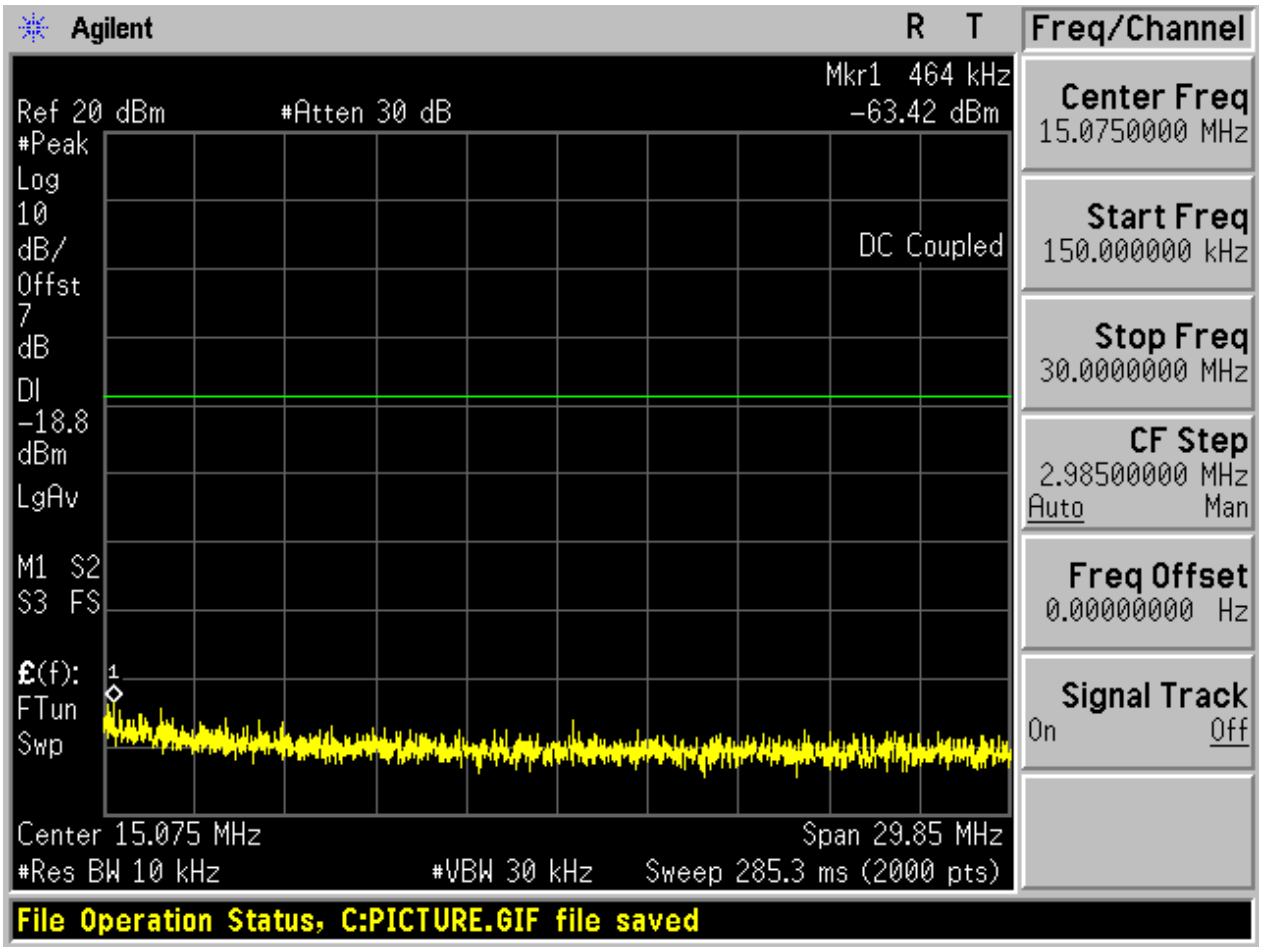
2.2 TM1_DH5_Ch39

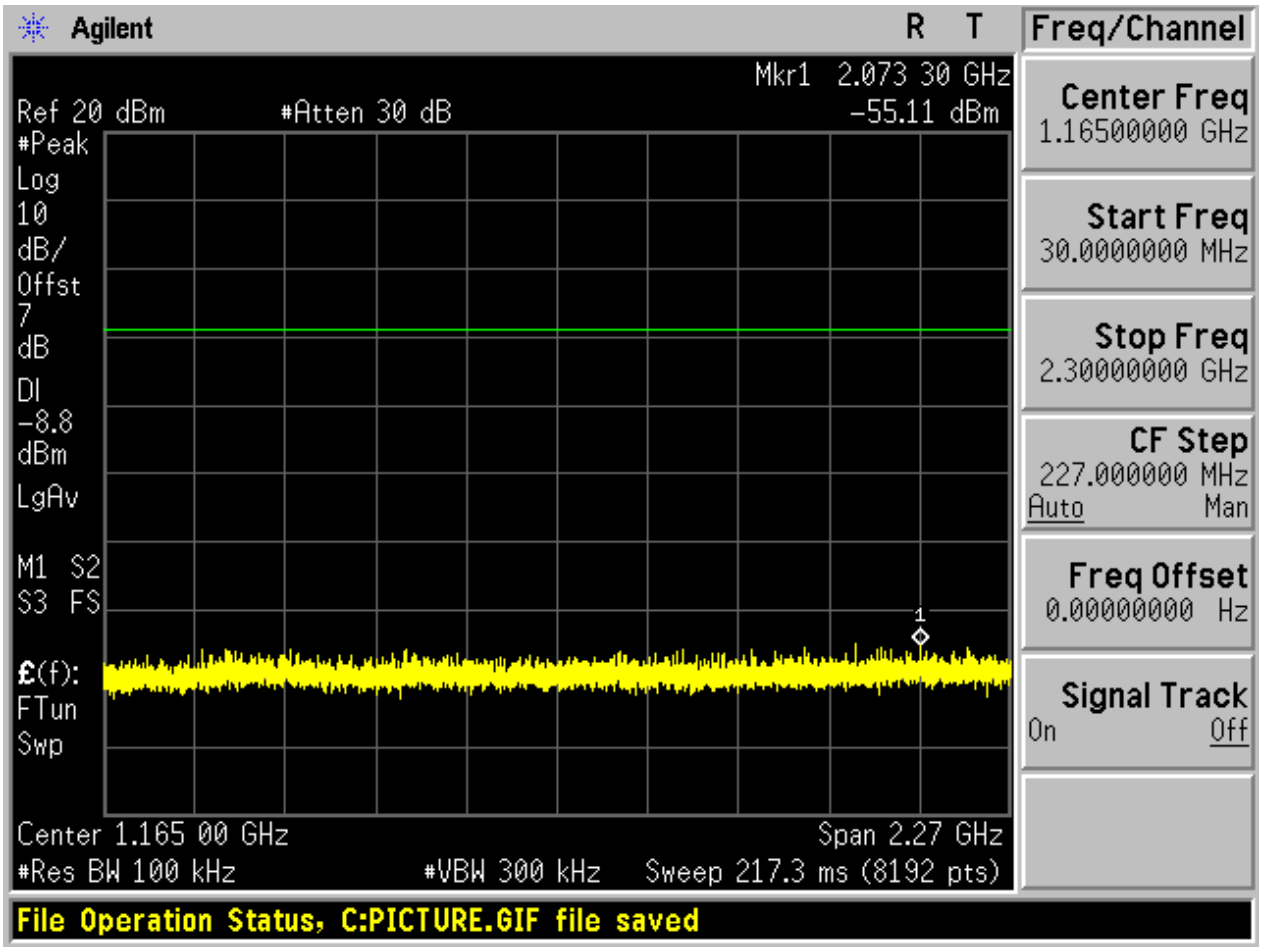
2.2.1 Pref

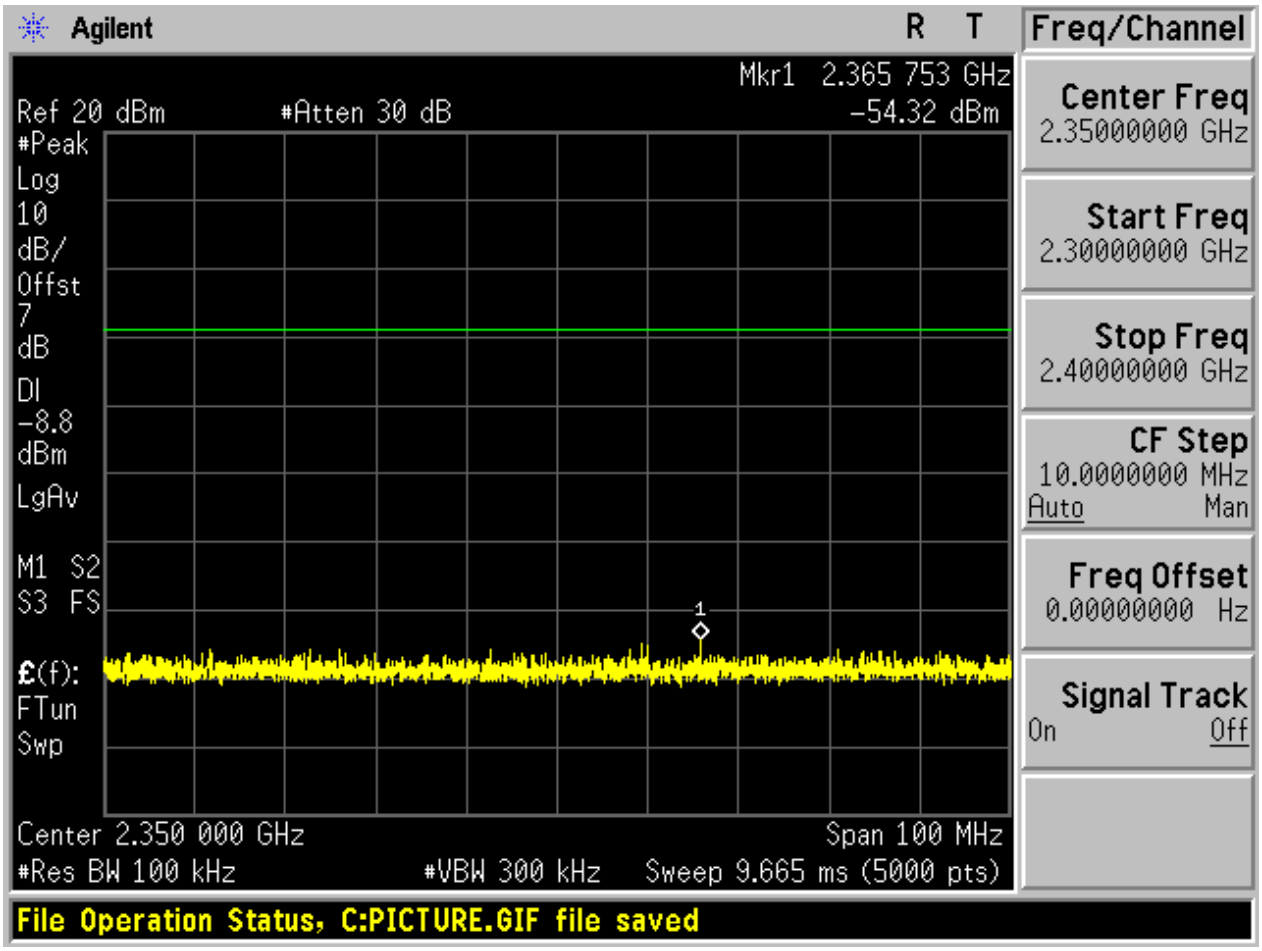


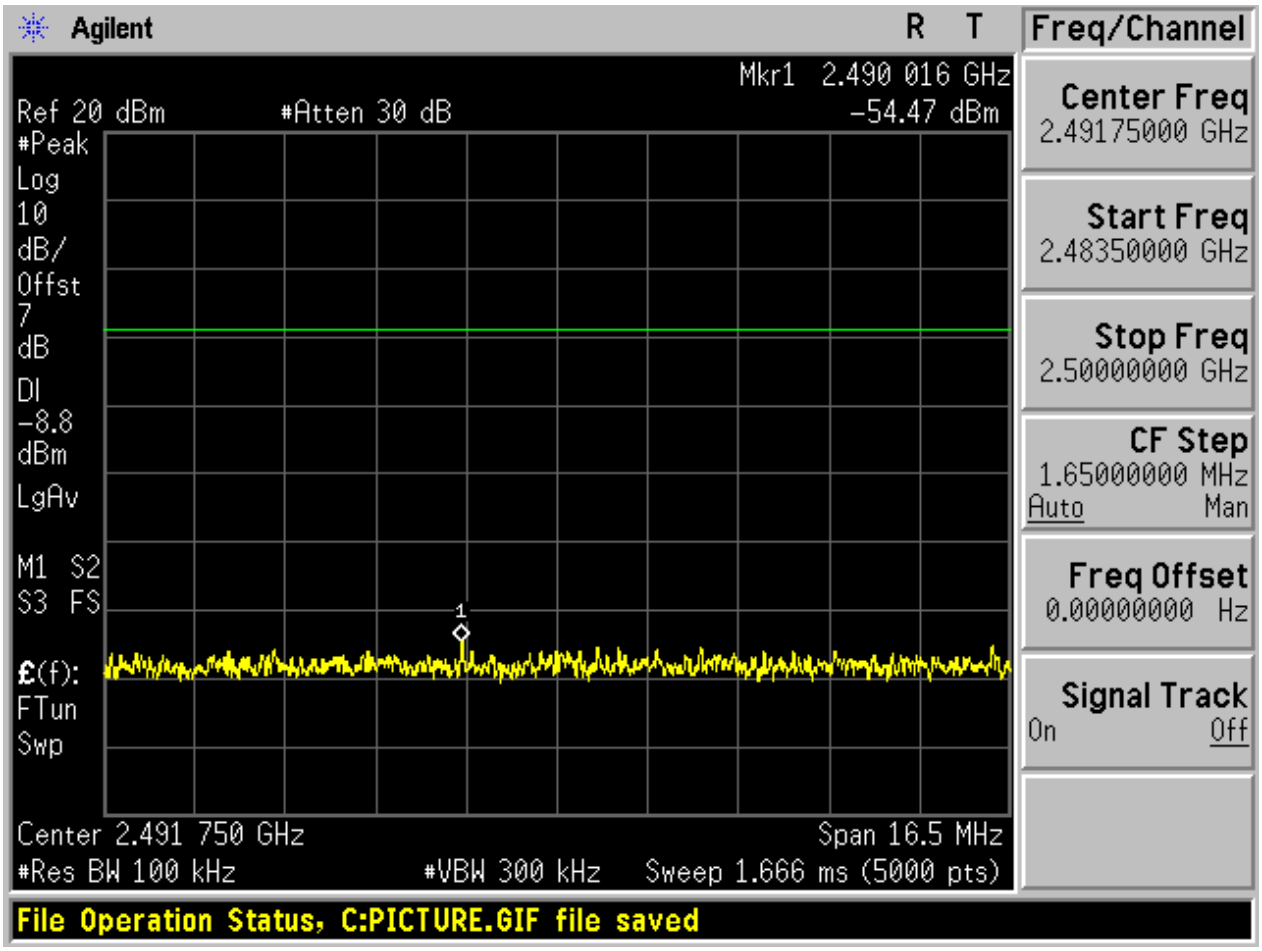
2.2.2 Puw

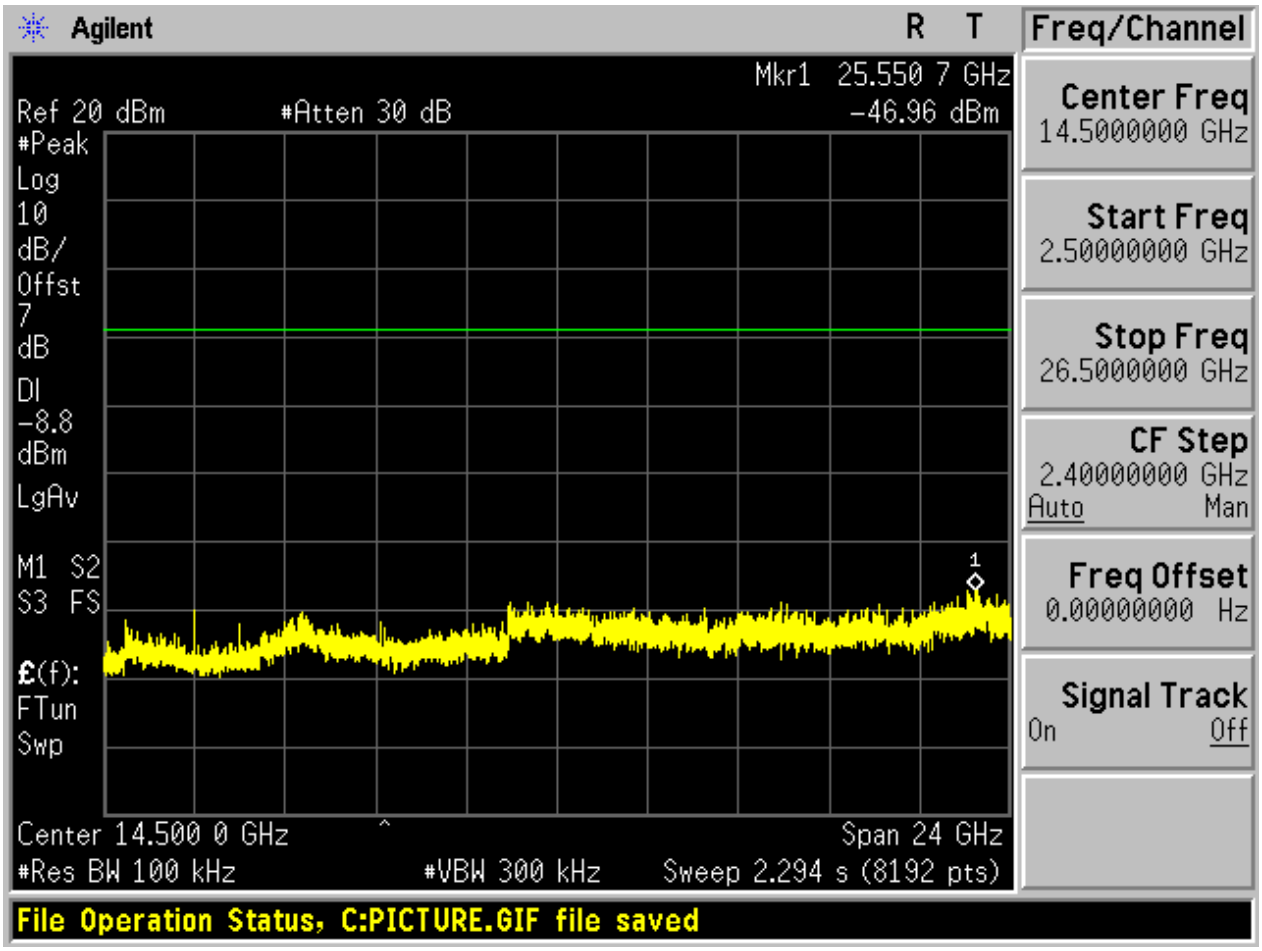






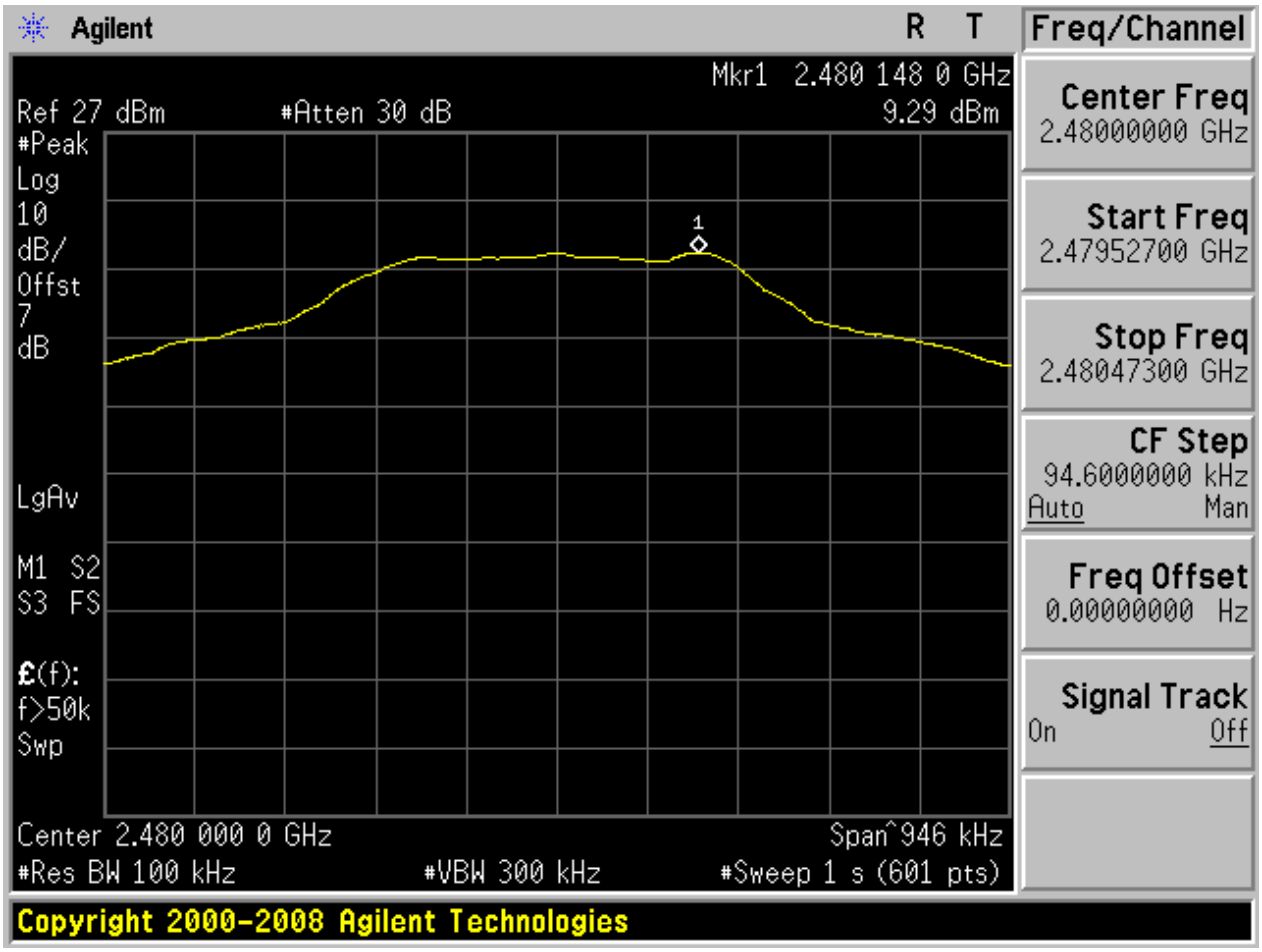




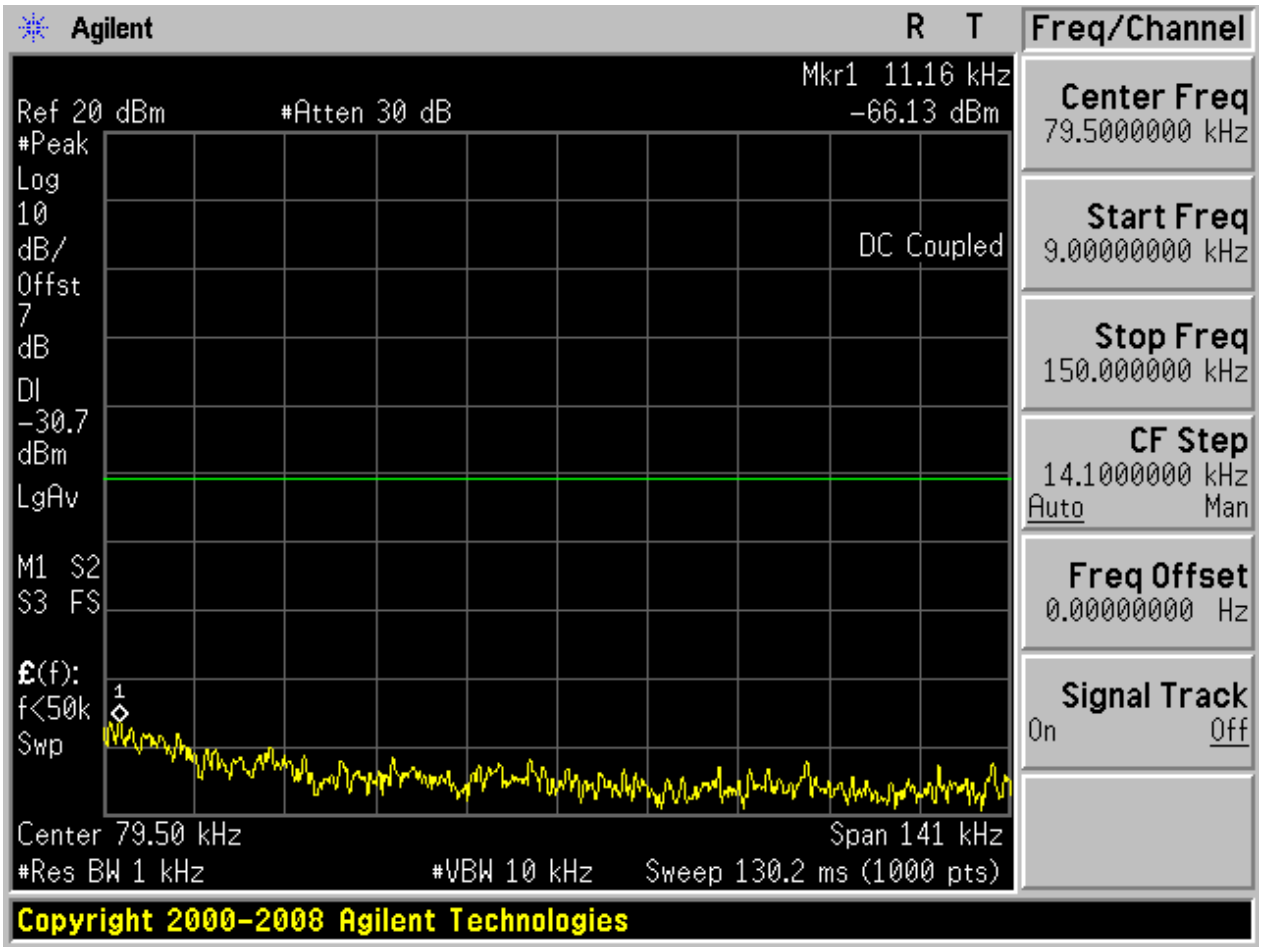


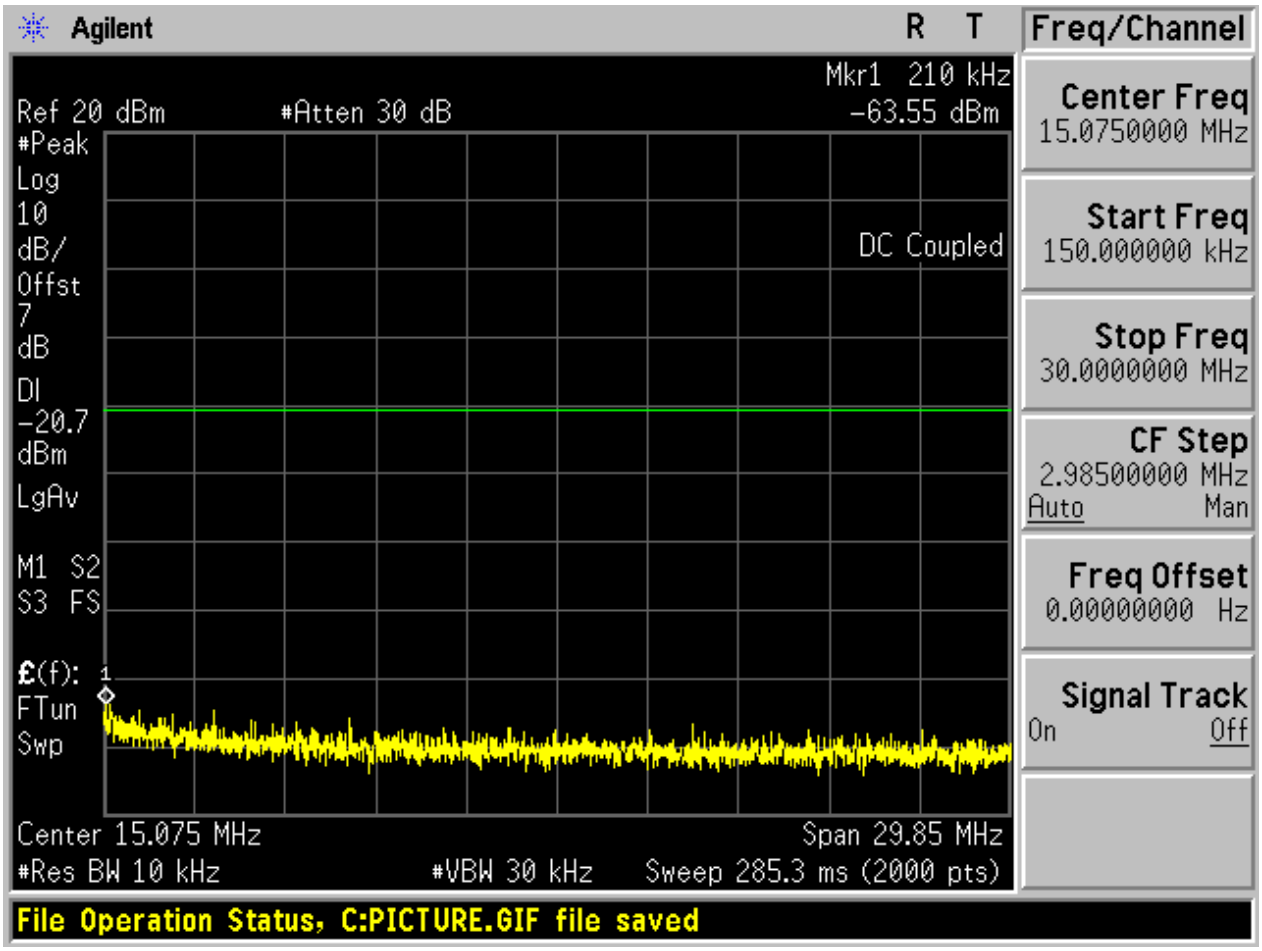
2.3 TM1_DH5_Ch78

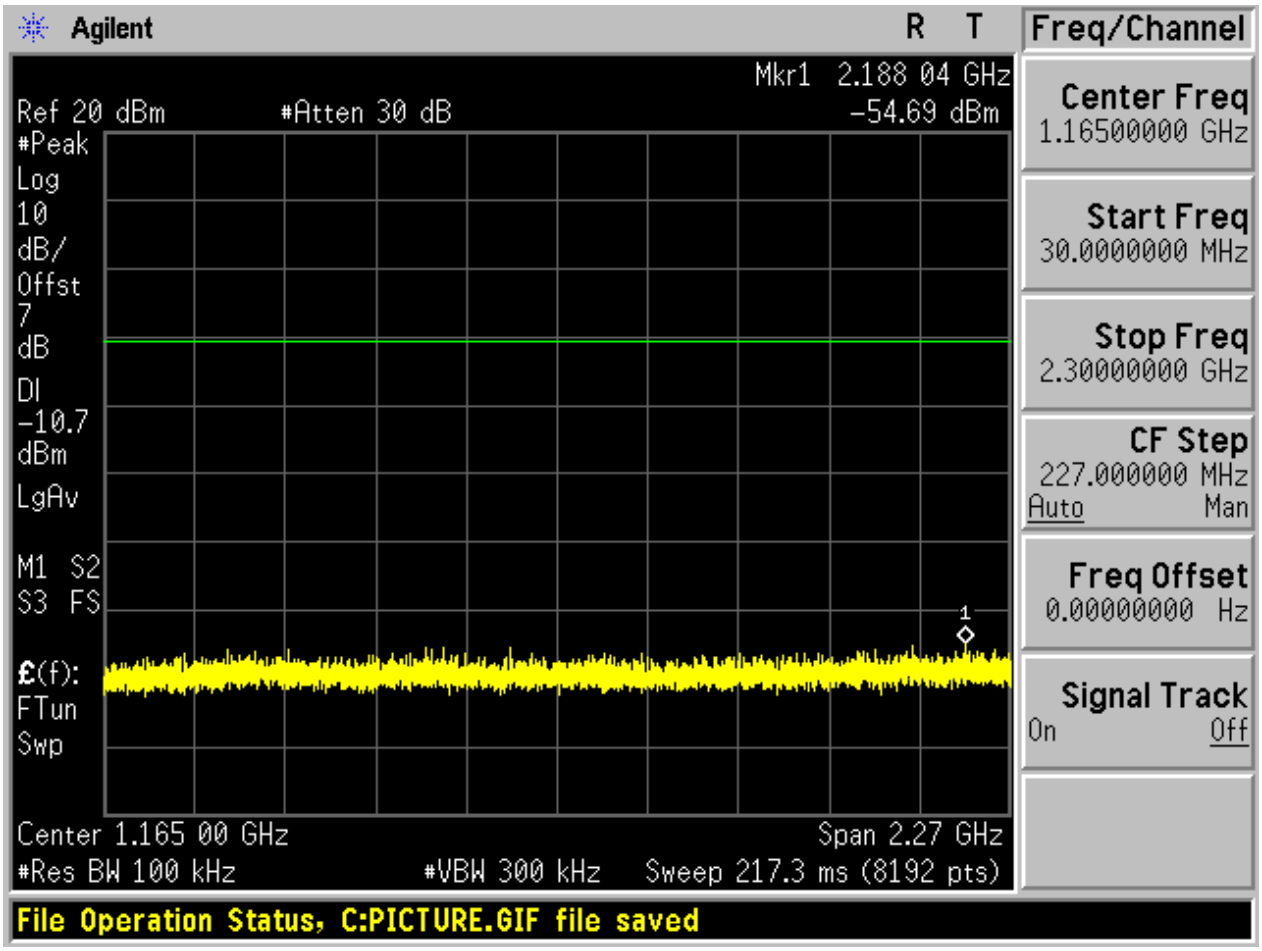
2.3.1 Pref

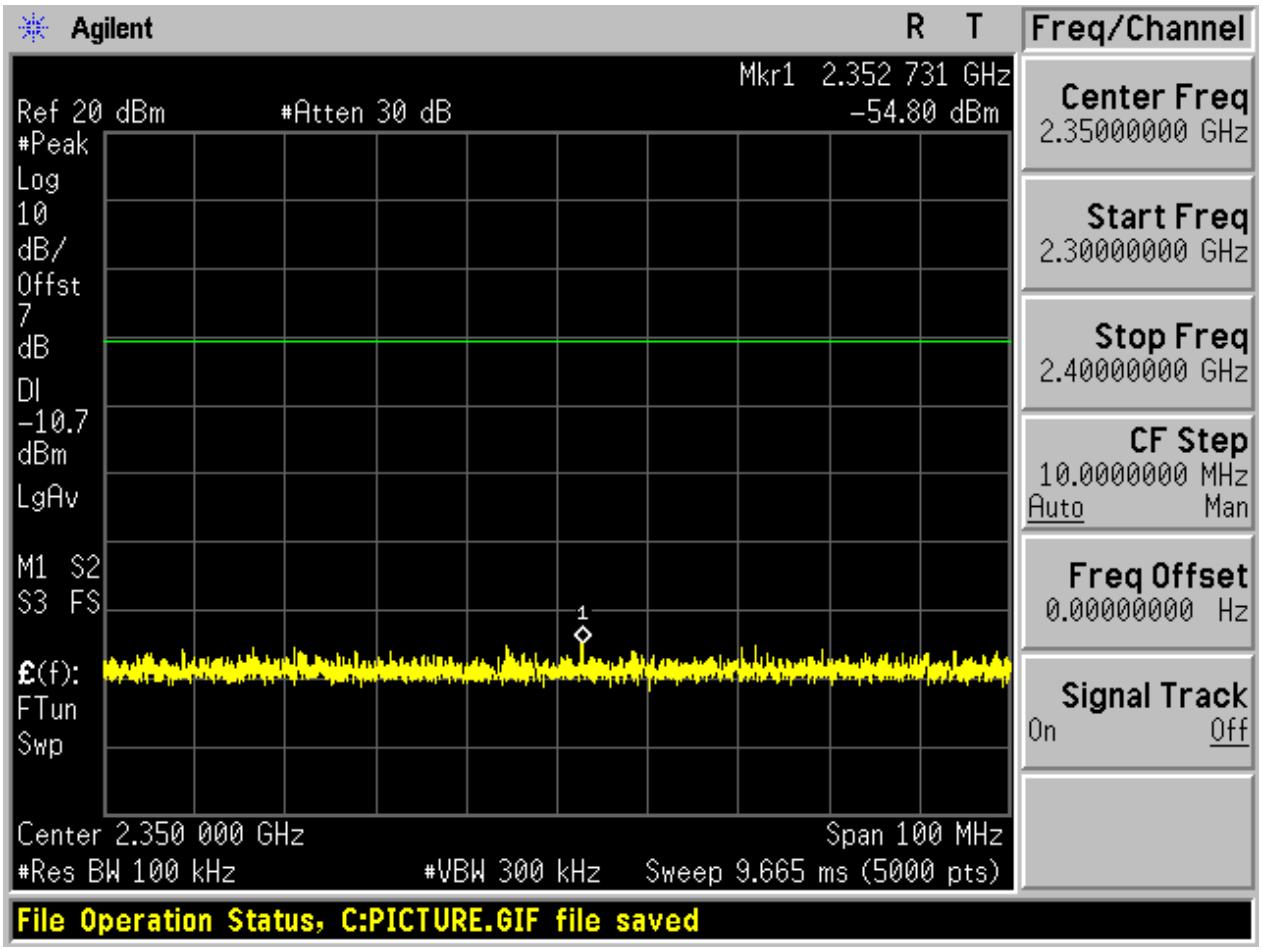


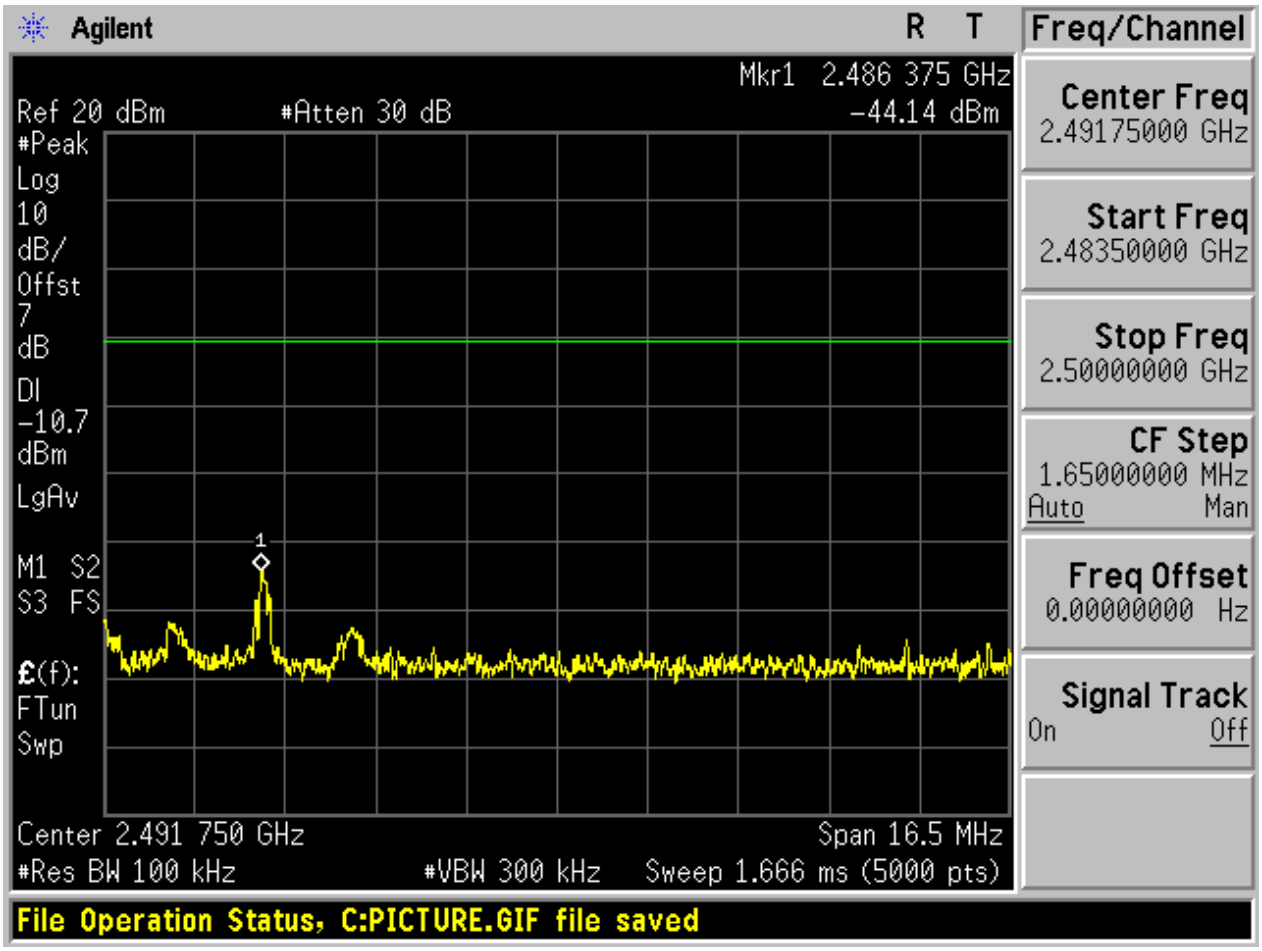
2.3.2 Puw

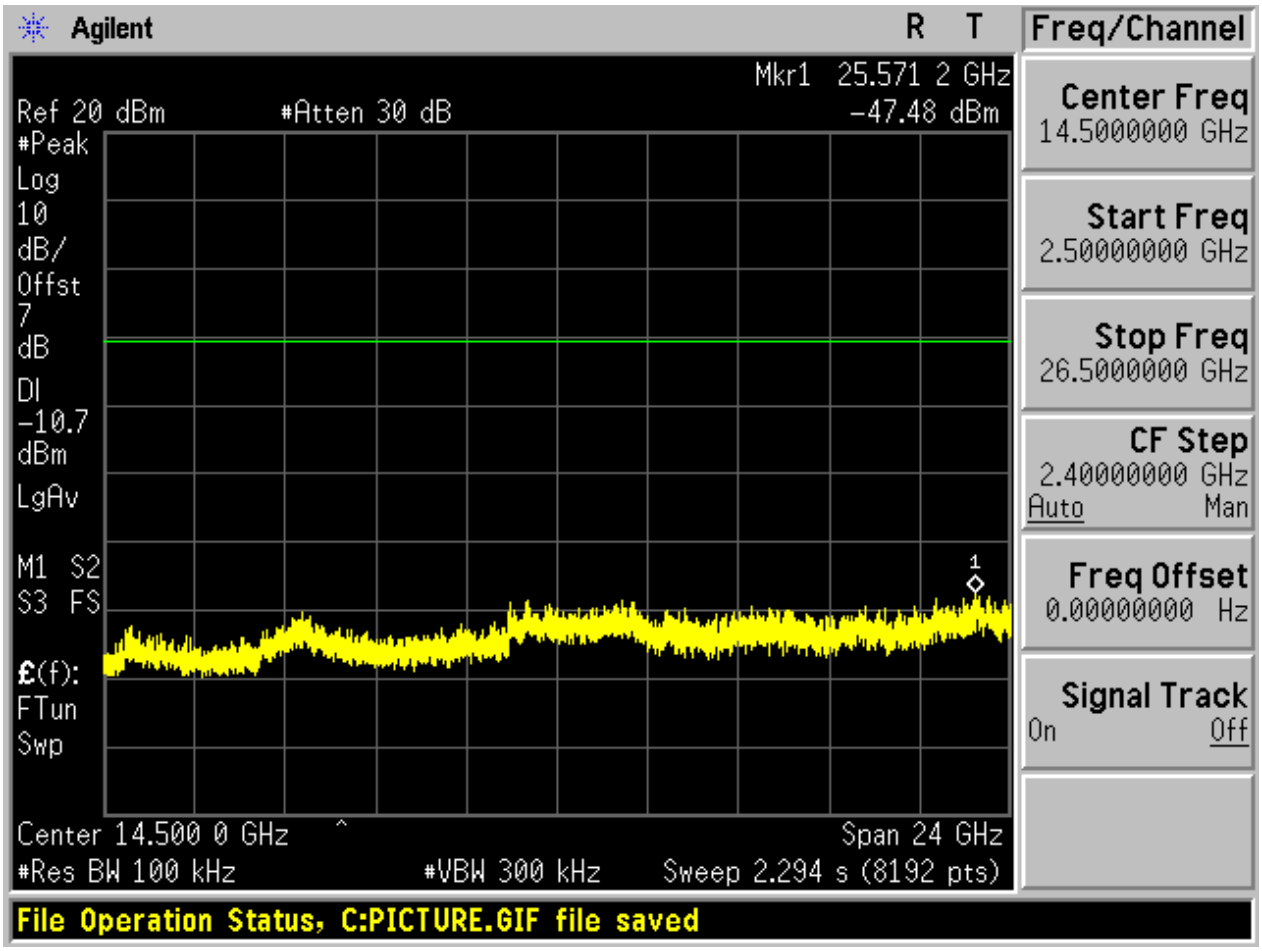






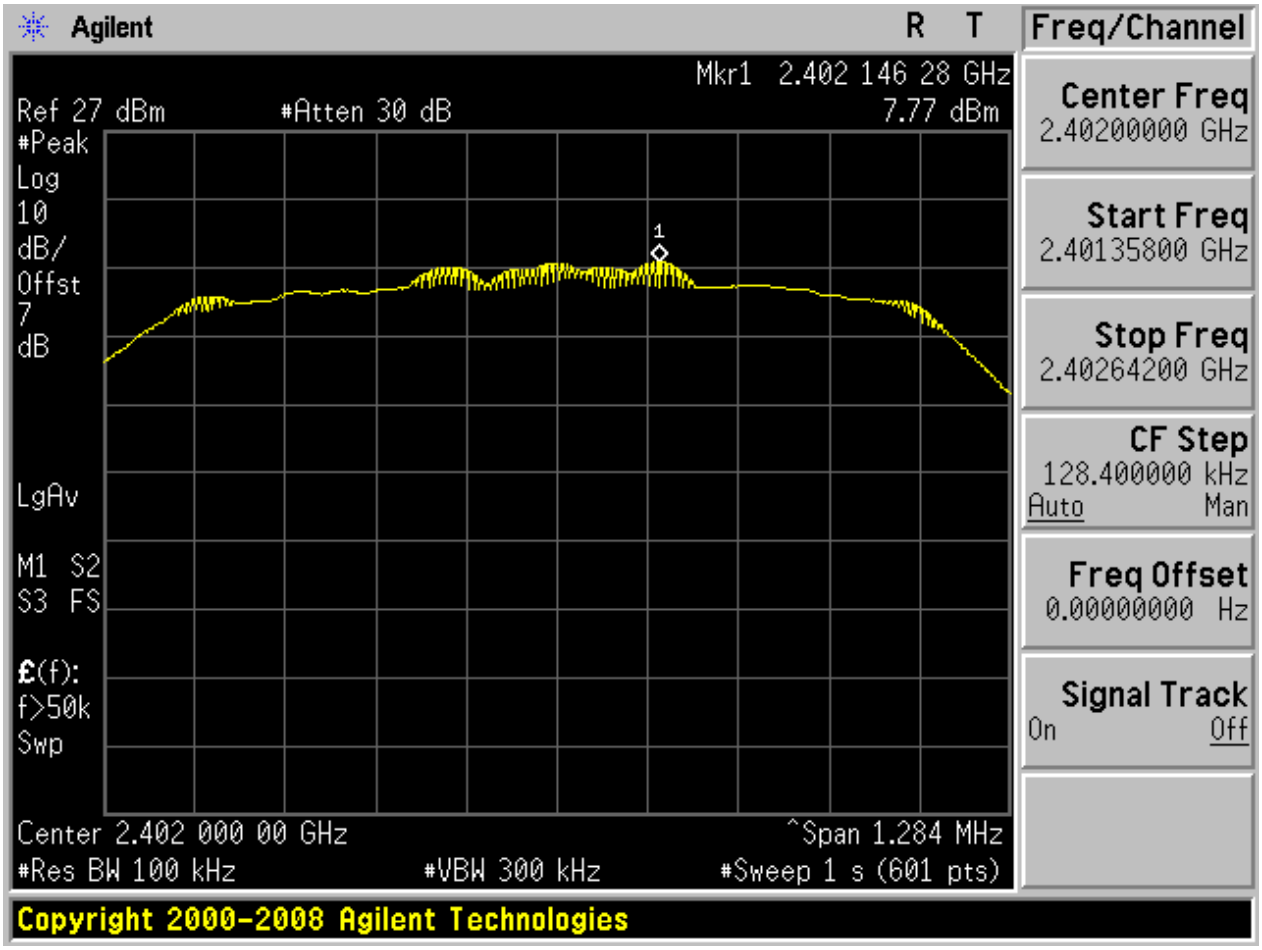




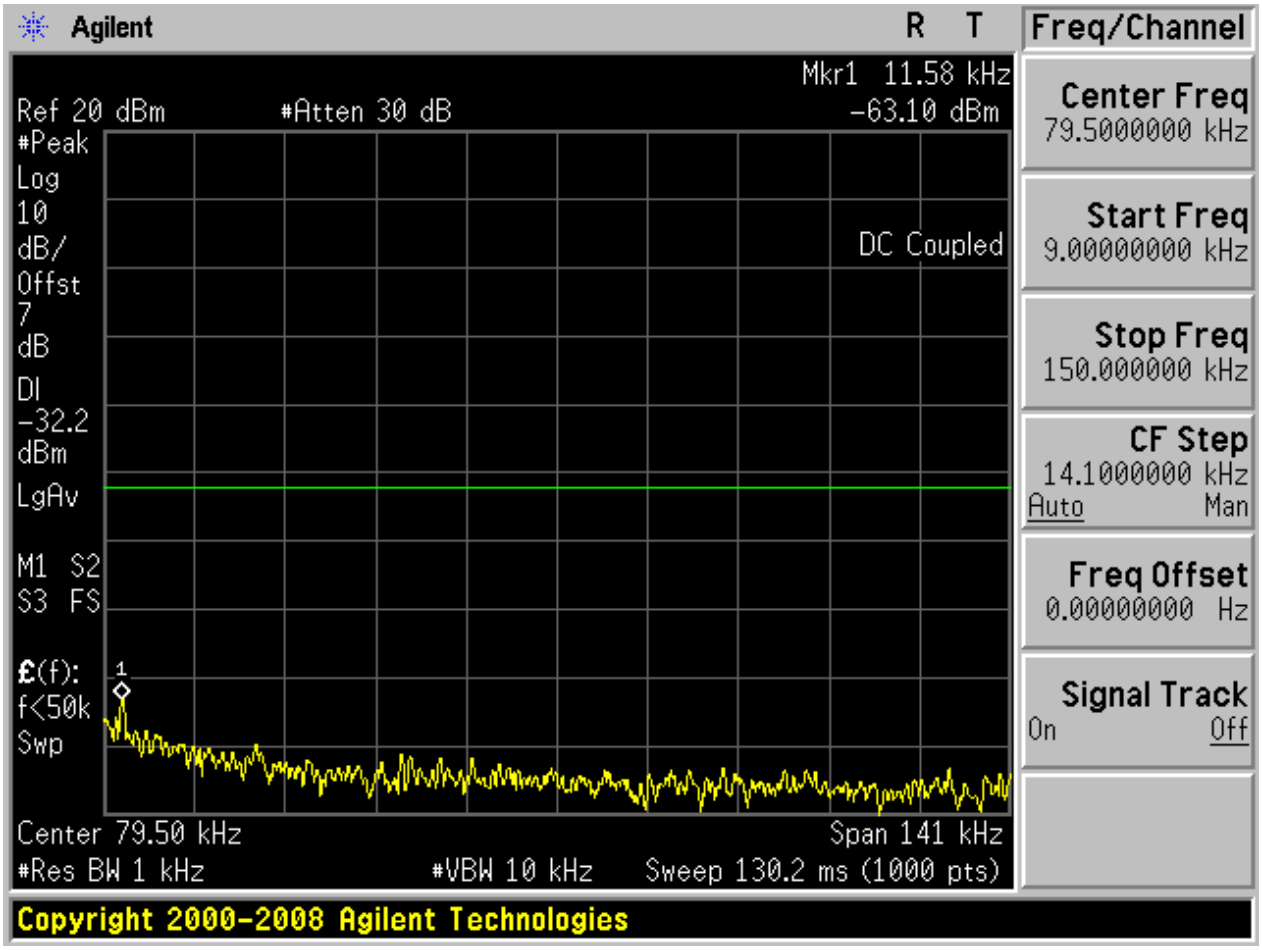


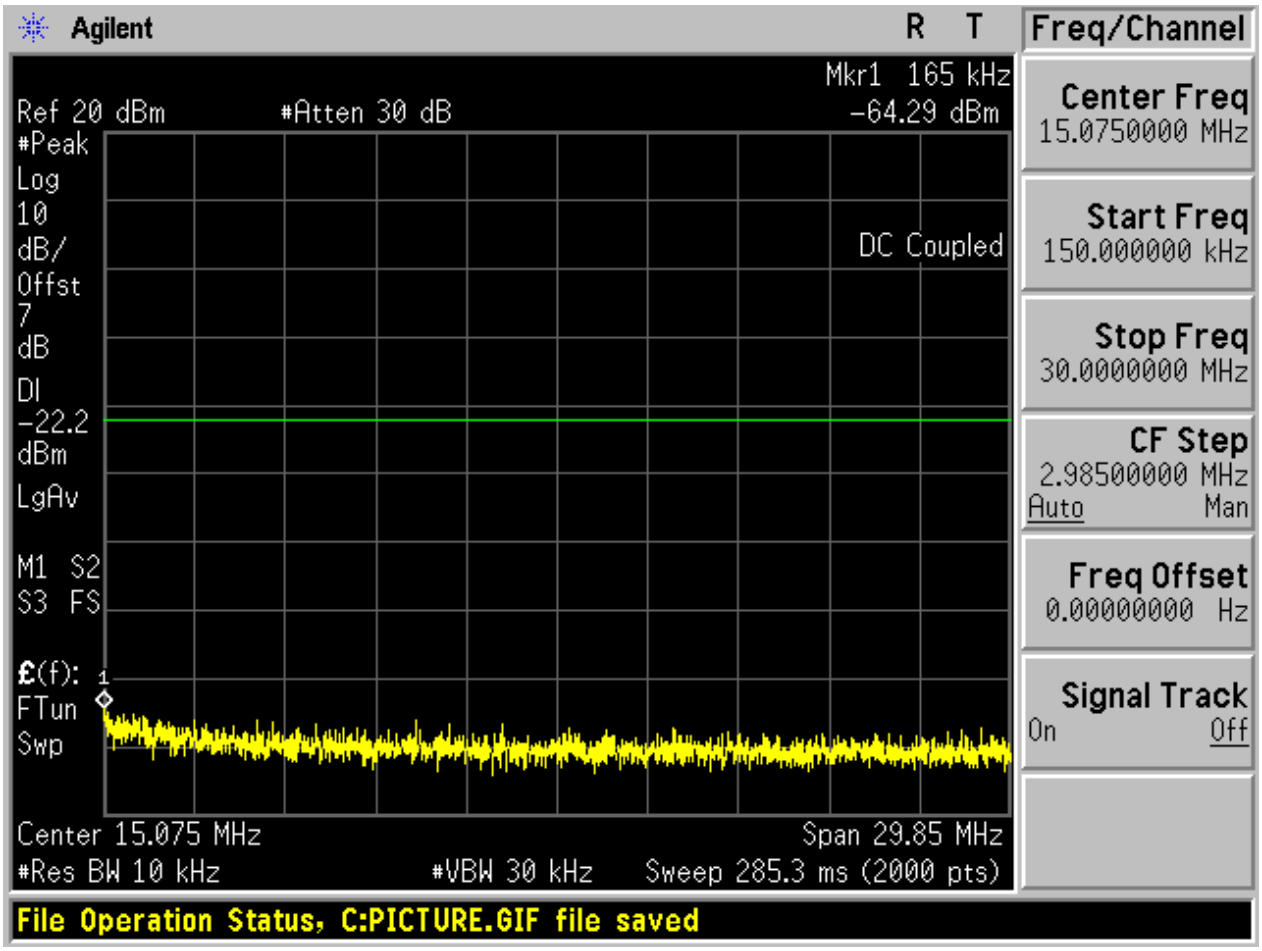
2.4 TM2_2DH5_Ch0

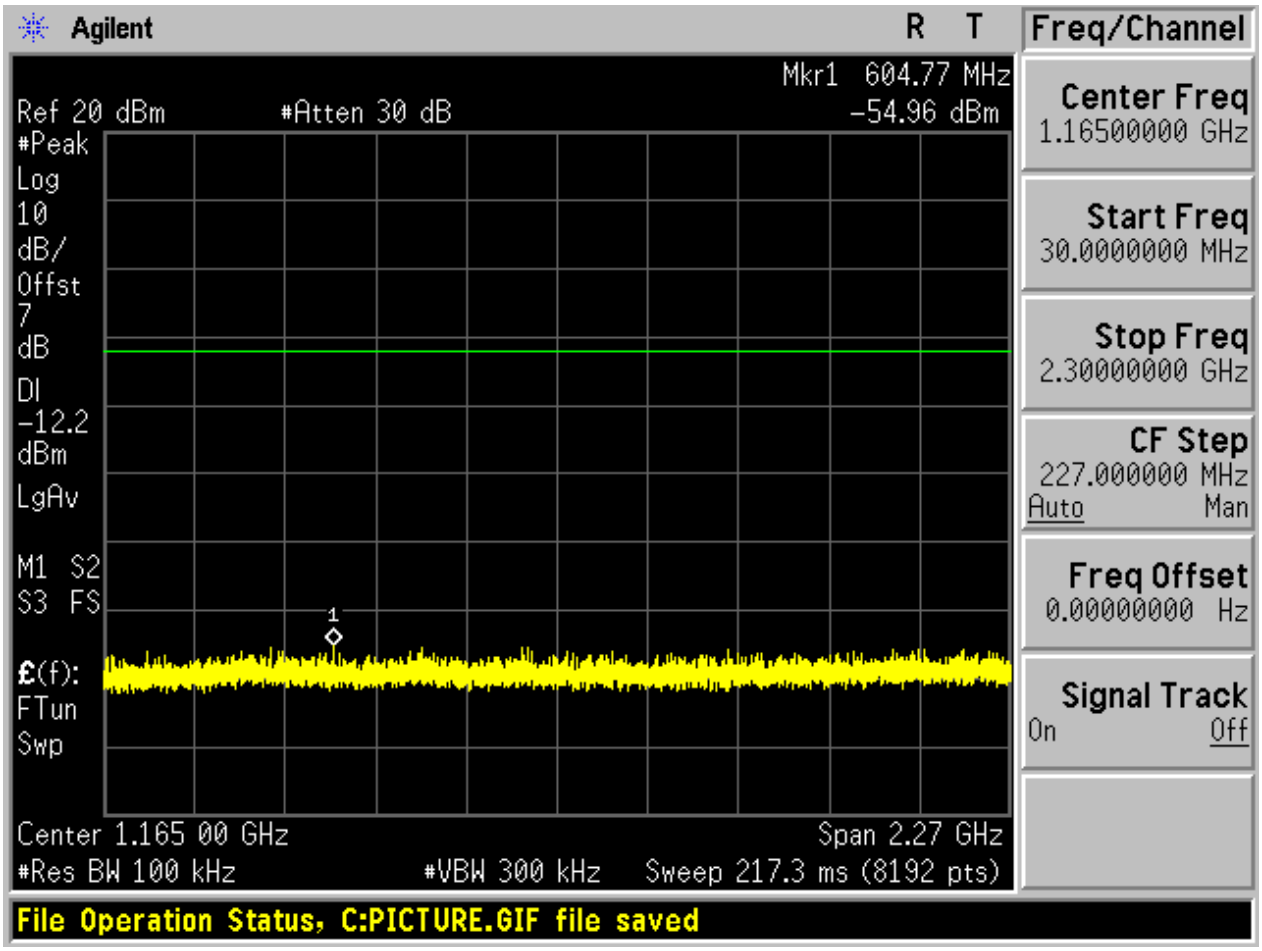
2.4.1 Pref

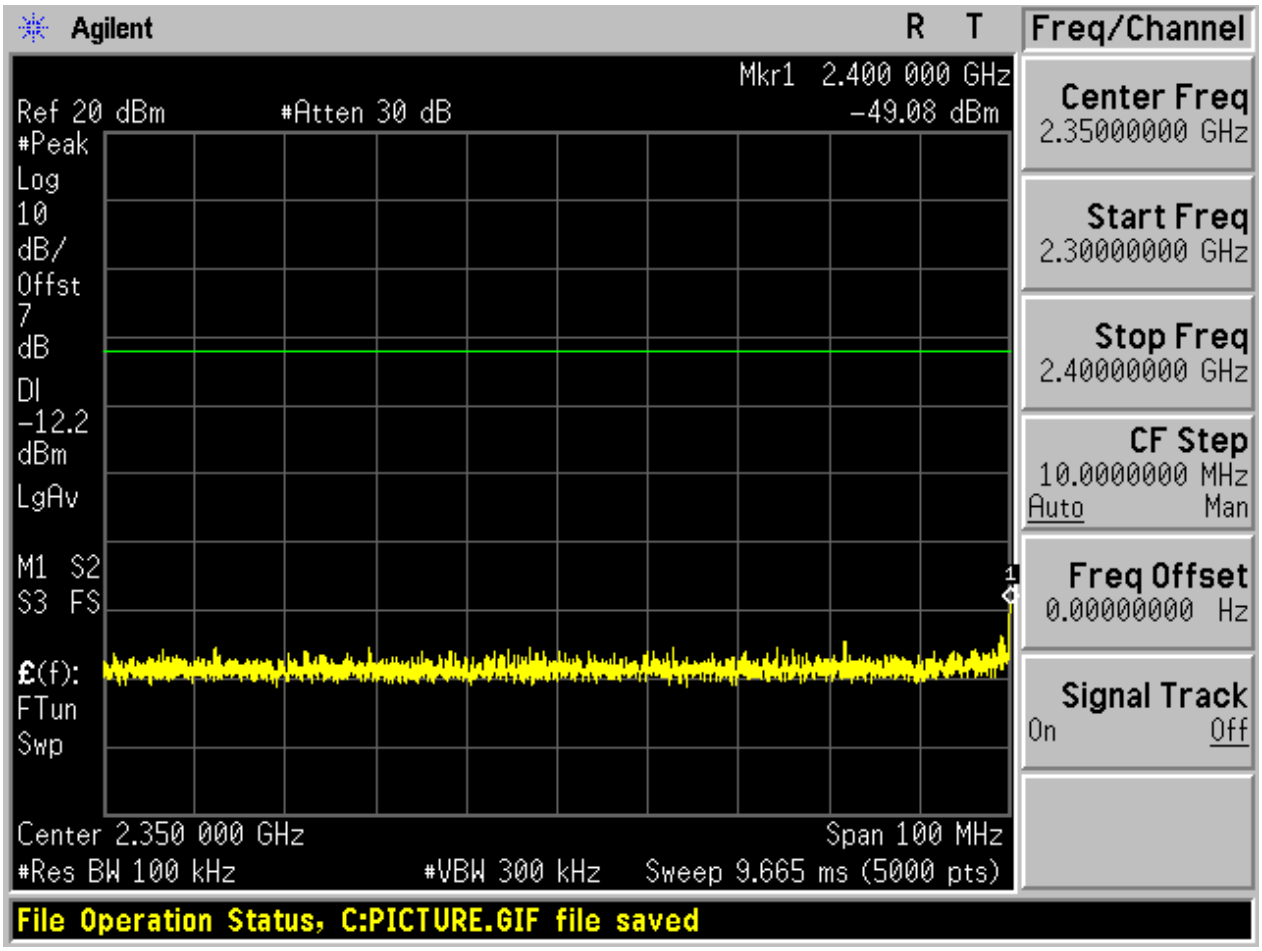


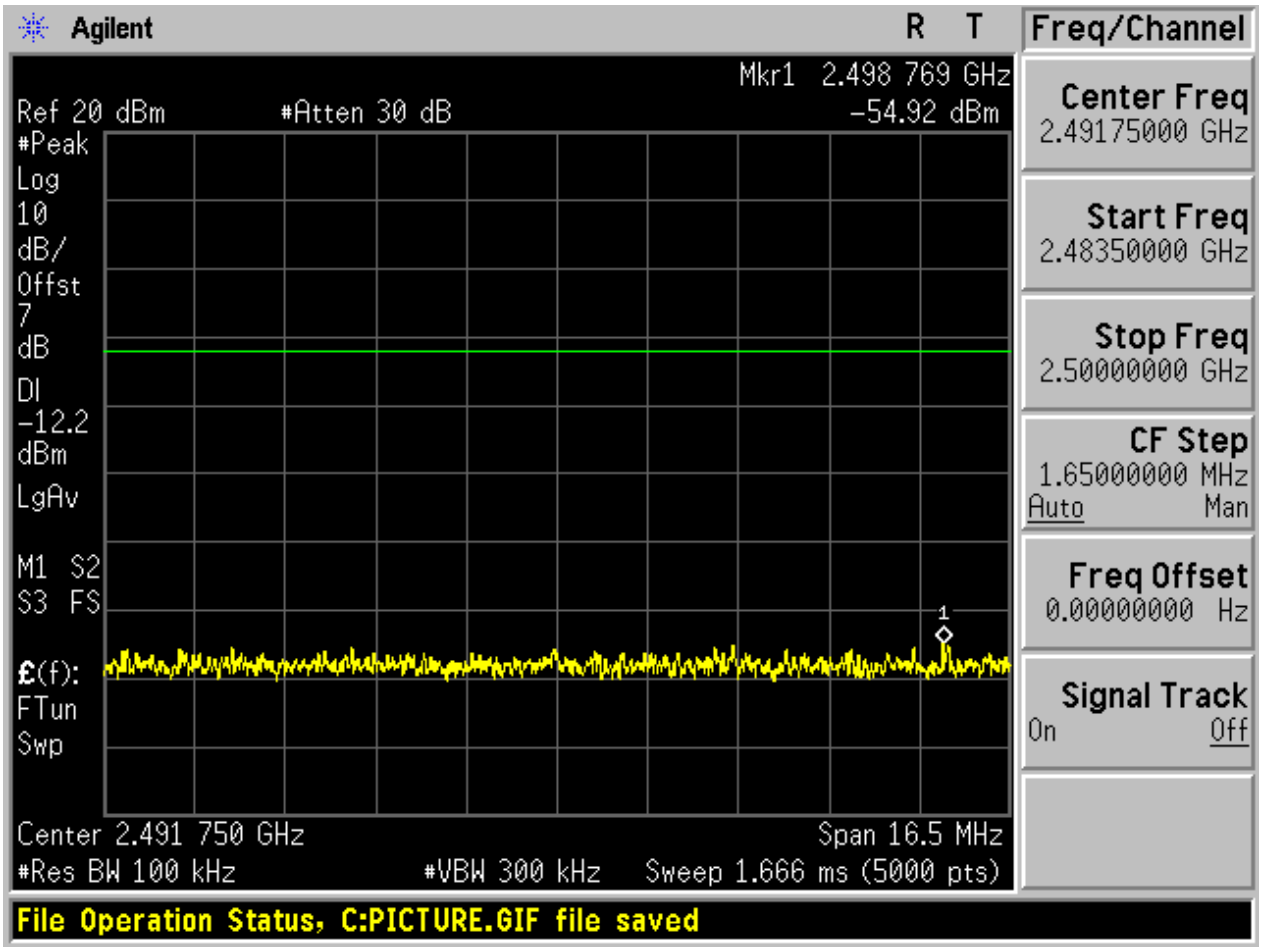
2.4.2 Puw

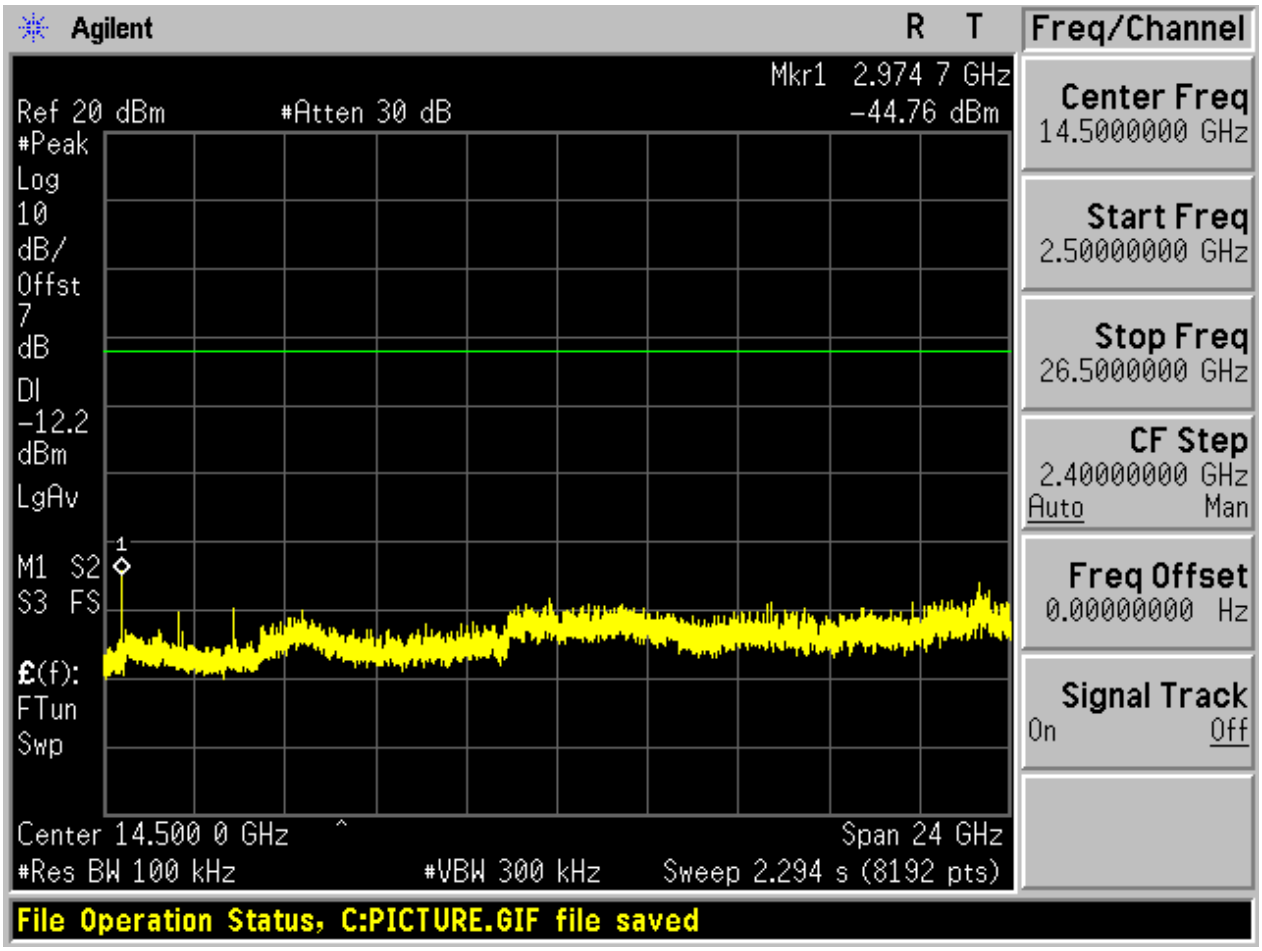



Agilent
R T
Freq/Channel
Mkr1 165 kHz
Ref 20 dBm
#Atten 30 dB
-64.29 dBm
#Peak
Log
10
dB/
Offst
7
dB
Dl
-22.2
dBm
LgAv
DC Coupled
M1 S2
S3 FS
£(f):
FTun
Swp
Center 15.075 MHz
Span 29.85 MHz
#Res BW 10 kHz
#VBW 30 kHz
Sweep 285.3 ms (2000 pts)
Center Freq
15.0750000 MHz
Start Freq
150.000000 kHz
Stop Freq
30.0000000 MHz
CF Step
2.98500000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
File Operation Status, C:PICTURE.GIF file saved



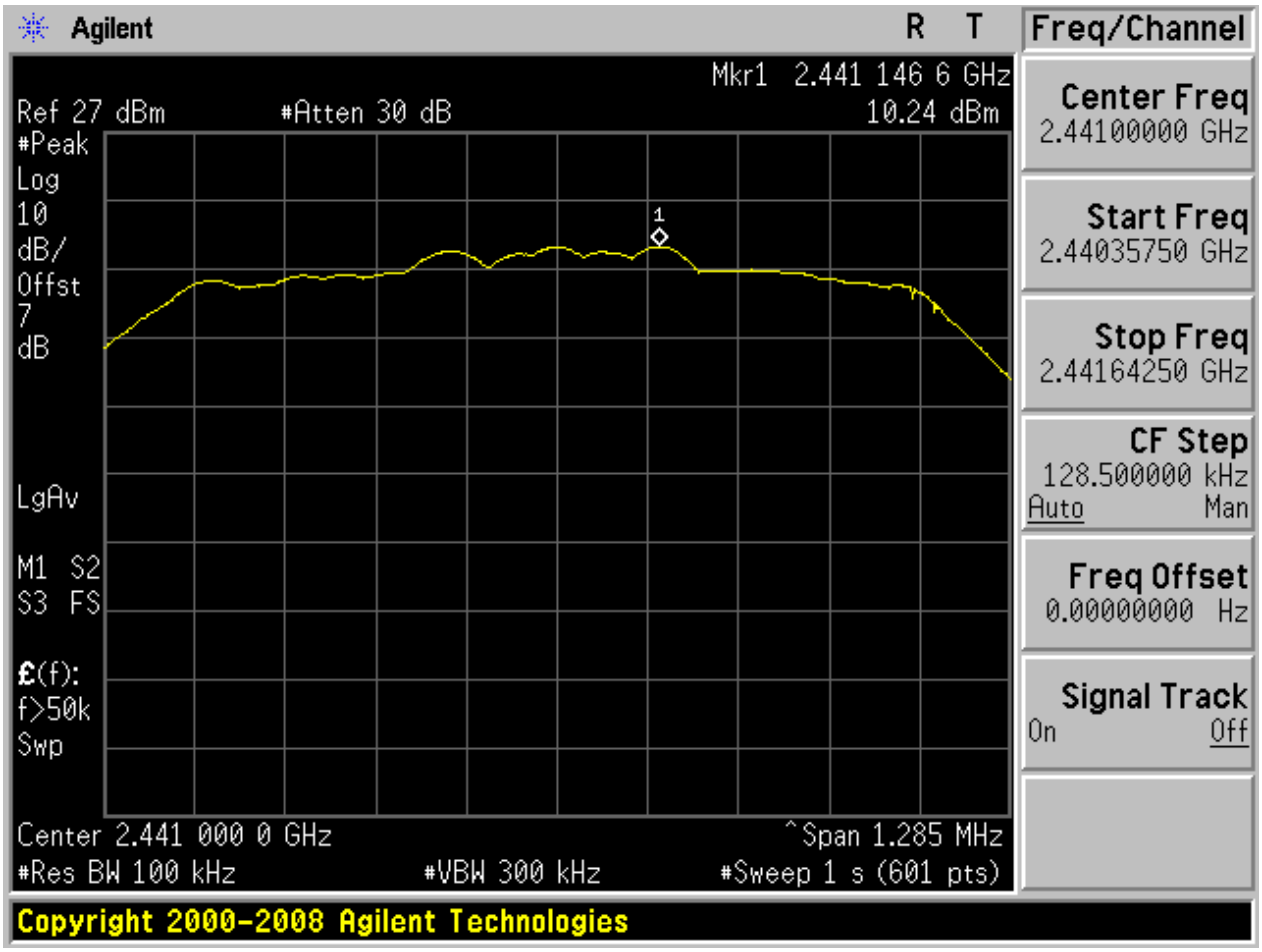




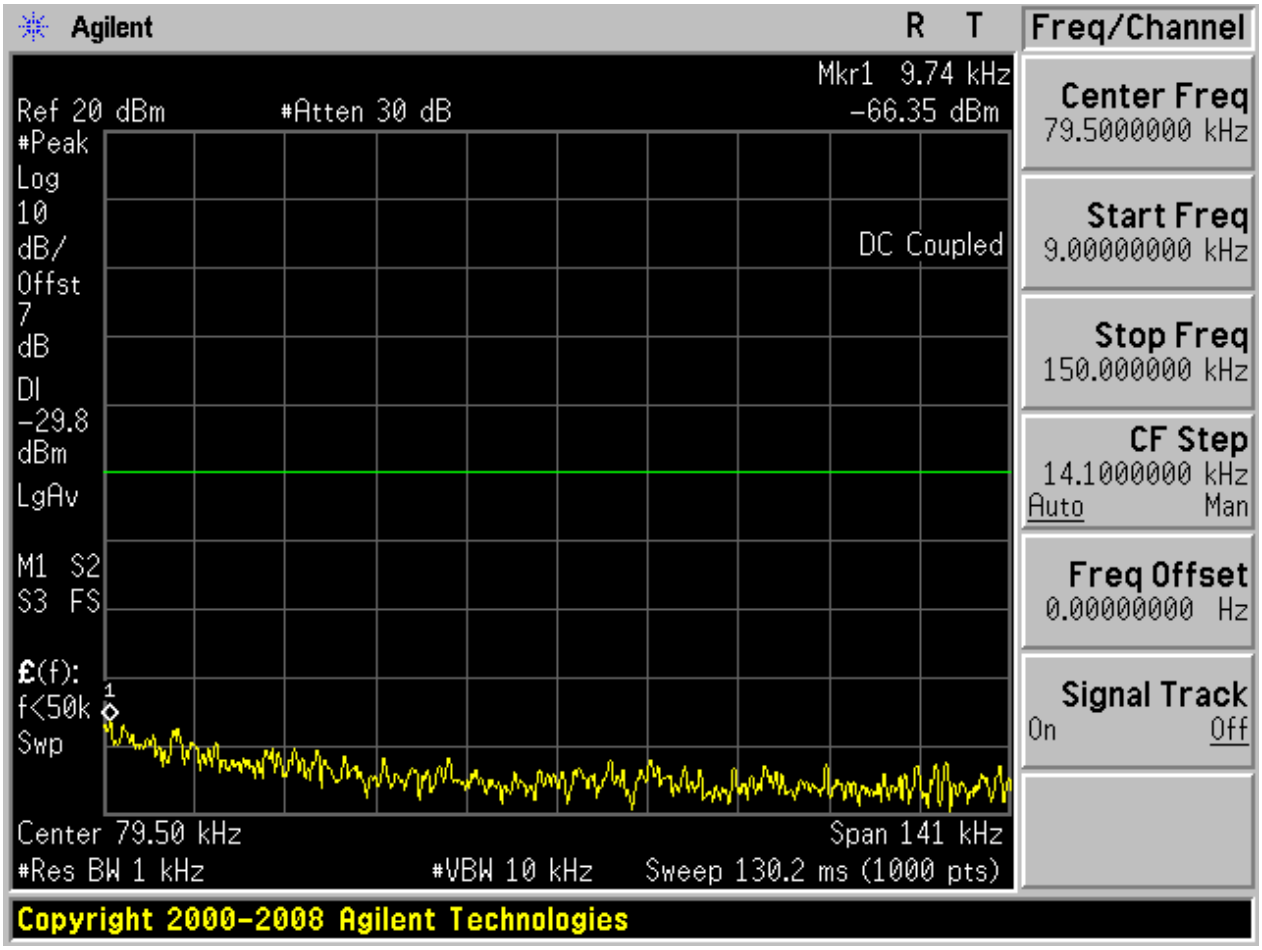


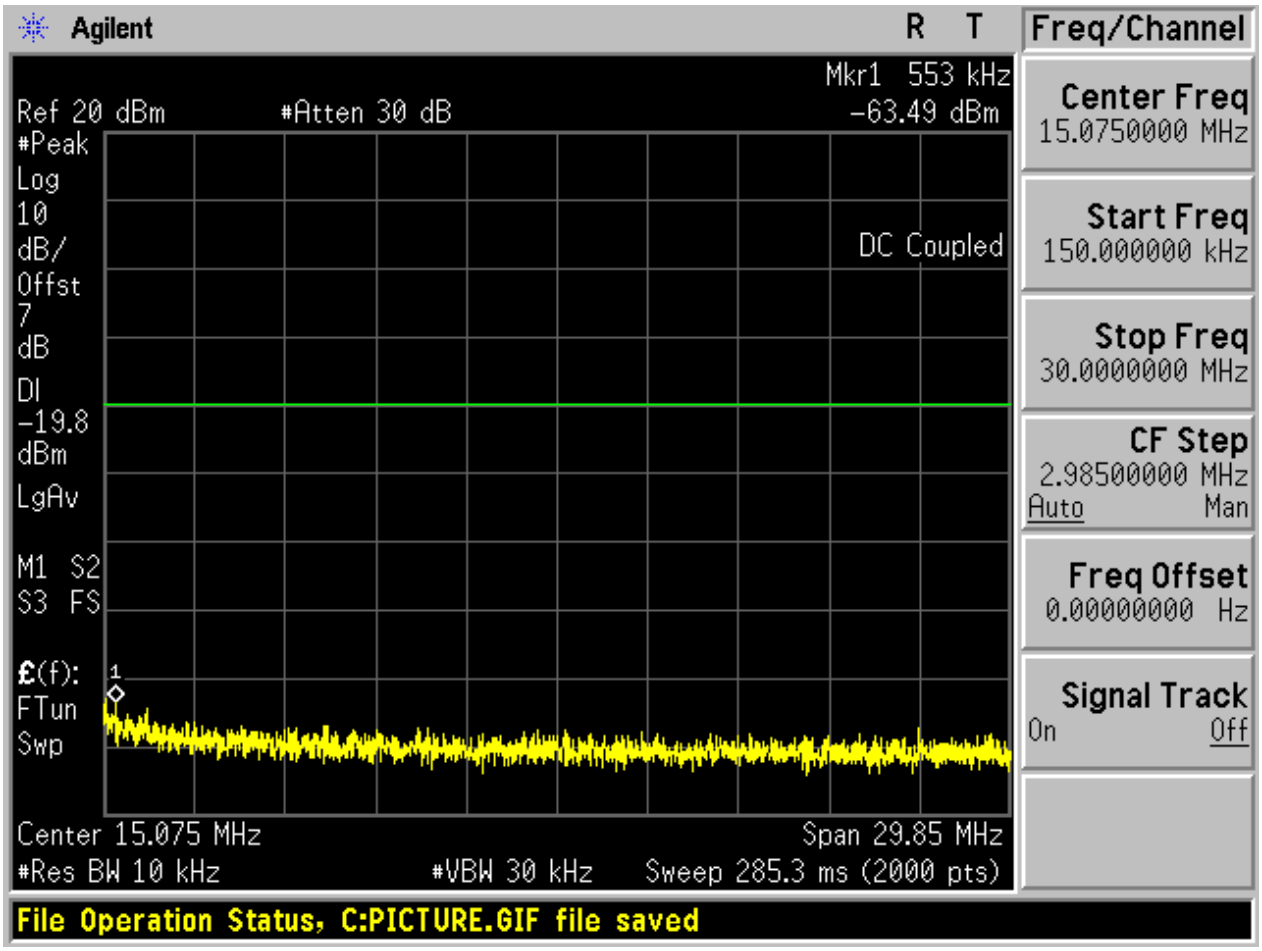
2.5 TM2_2DH5_Ch39

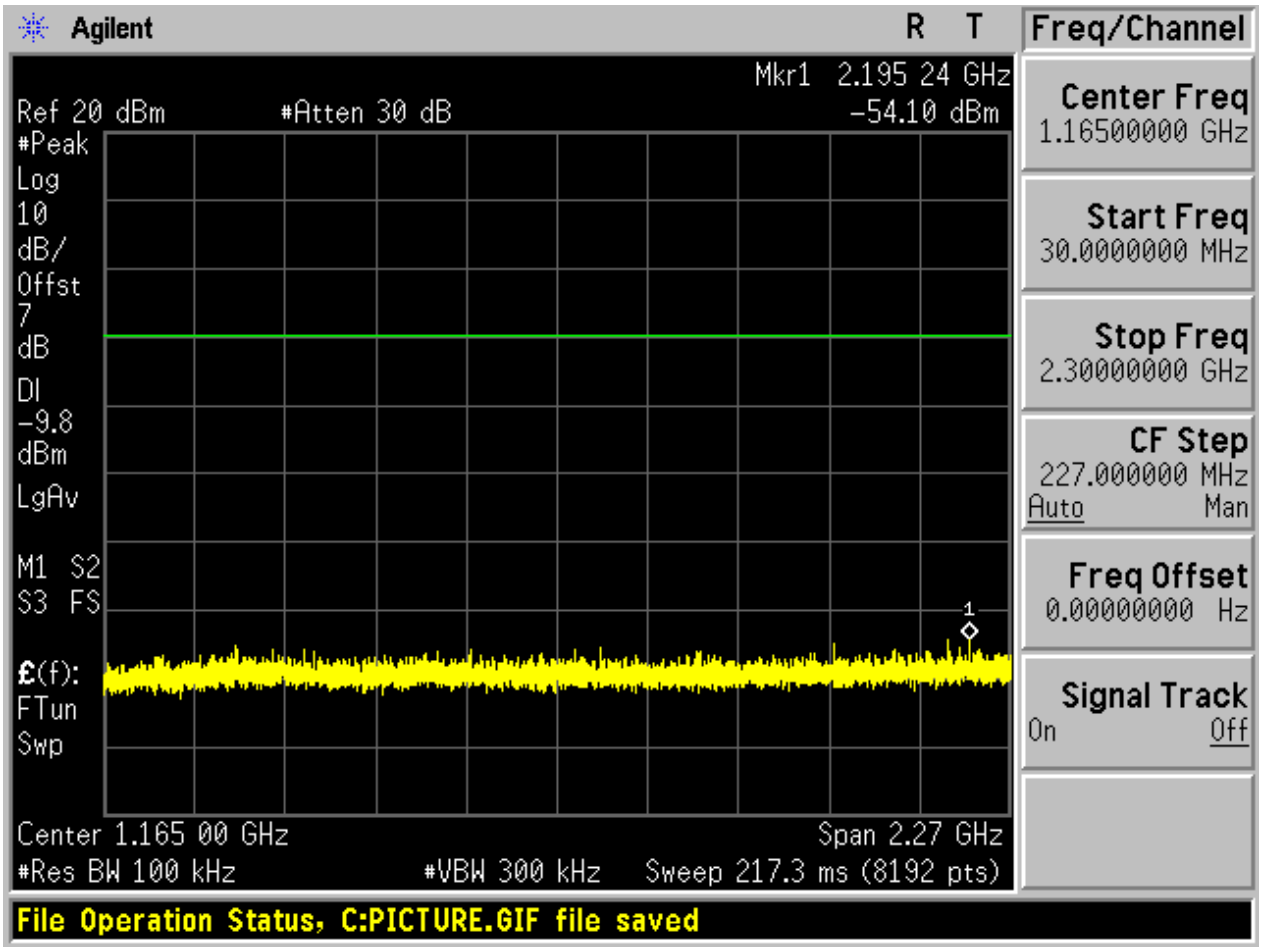
2.5.1 Pref

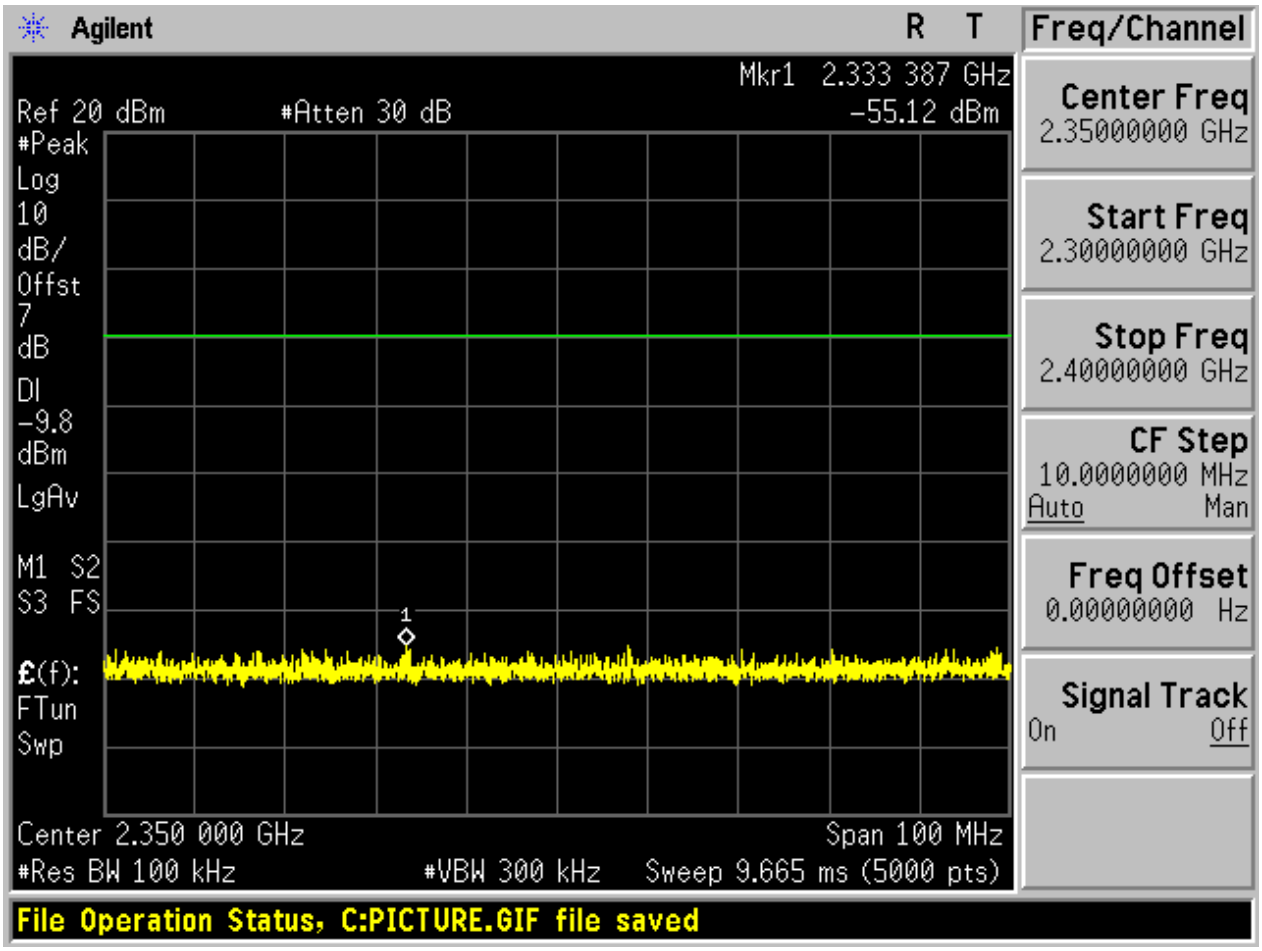


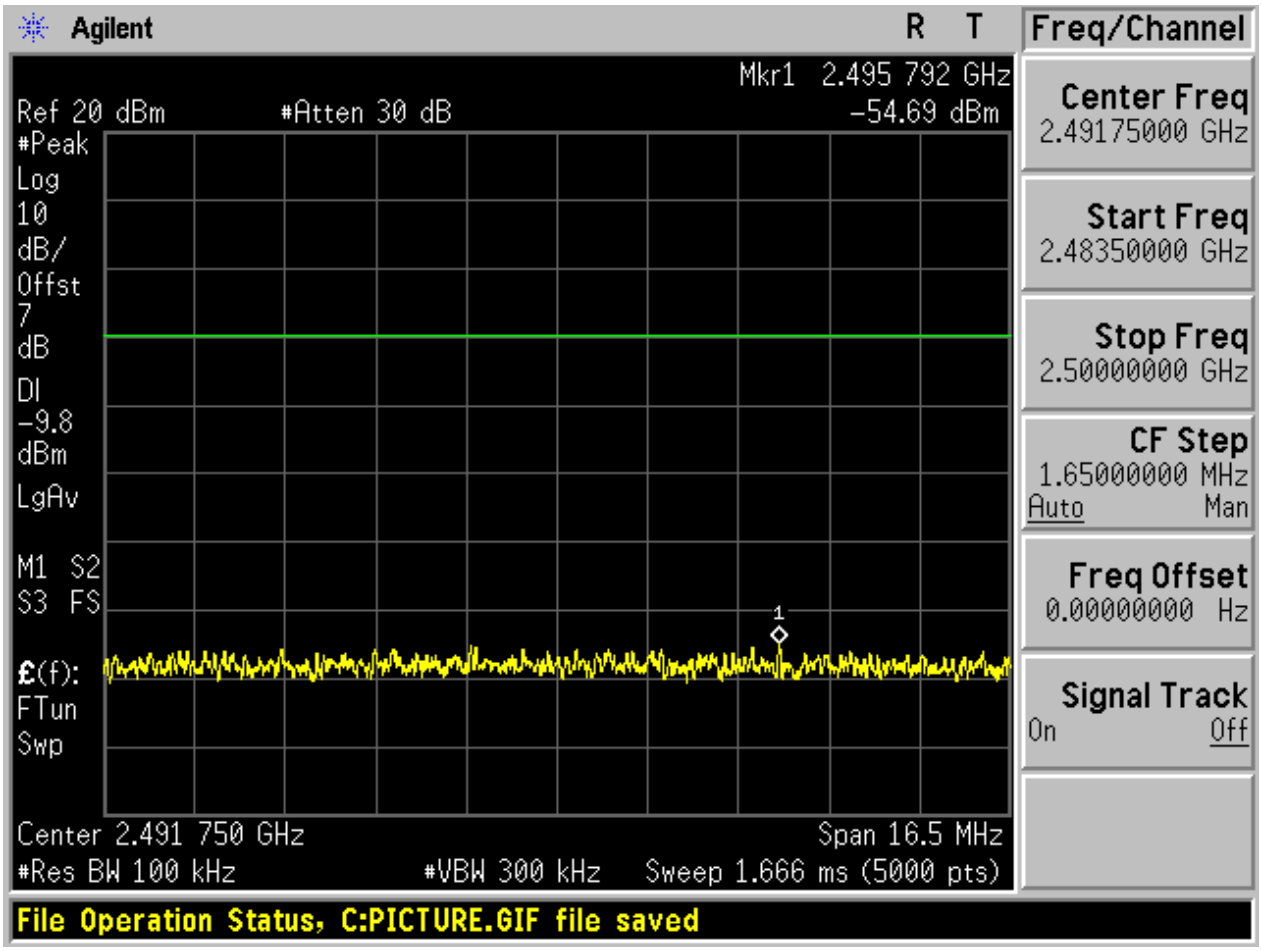
2.5.2 Puw

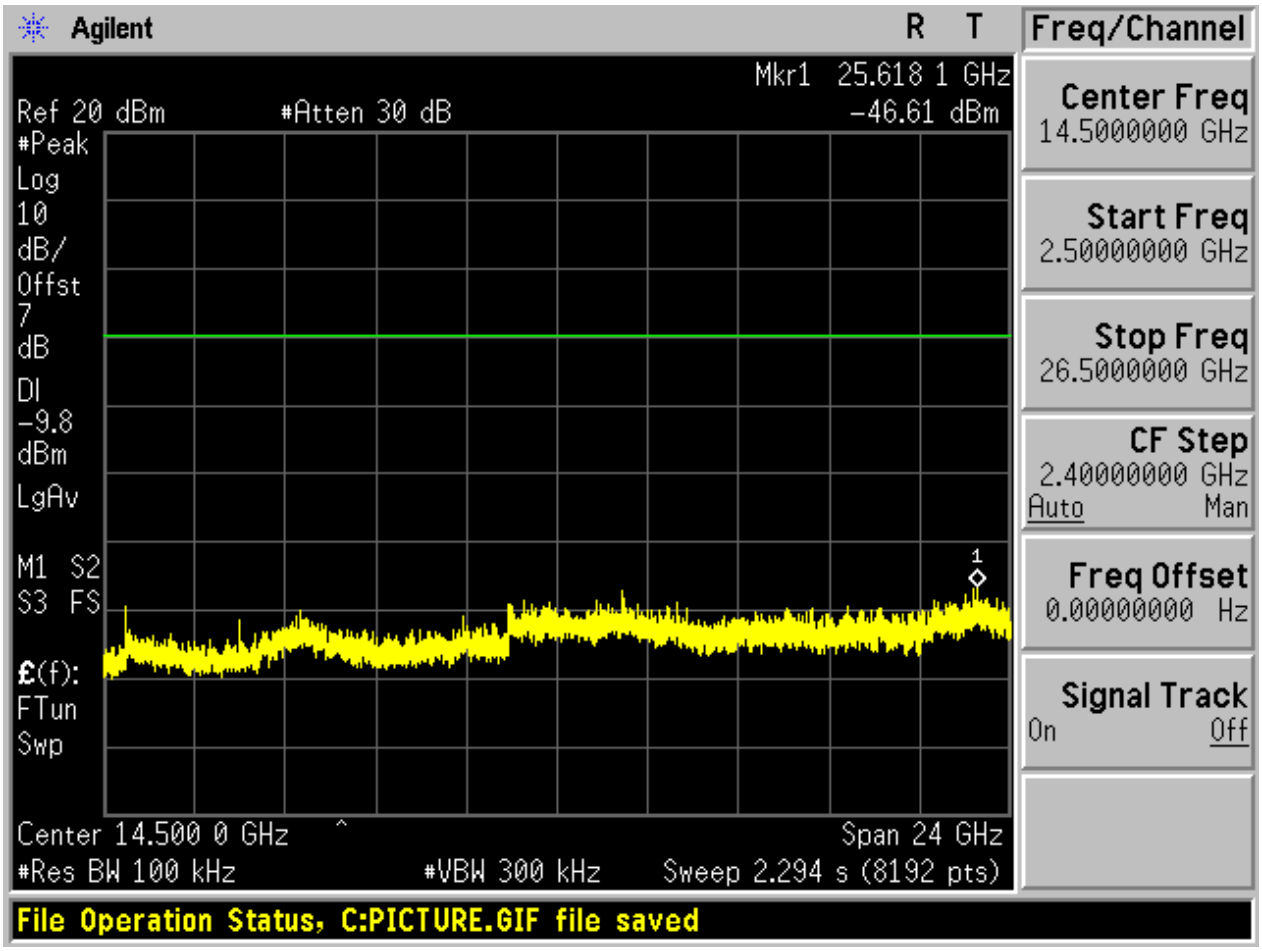

Agilent
R T
Freq/Channel
Mkr1 9.74 kHz
Ref 20 dBm
#Atten 30 dB
-66.35 dBm
#Peak
Log
10
dB/
Offst
7
dB
Dl
-29.8
dBm
LgAv
DC Coupled
M1 S2
S3 FS
£(f):
f<50k
Swp
Center Freq
79.5000000 kHz
Start Freq
9.00000000 kHz
Stop Freq
150.000000 kHz
CF Step
14.1000000 kHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 79.50 kHz
Span 141 kHz
#Res BW 1 kHz
#VBW 10 kHz
Sweep 130.2 ms (1000 pts)
Copyright 2000-2008 Agilent Technologies





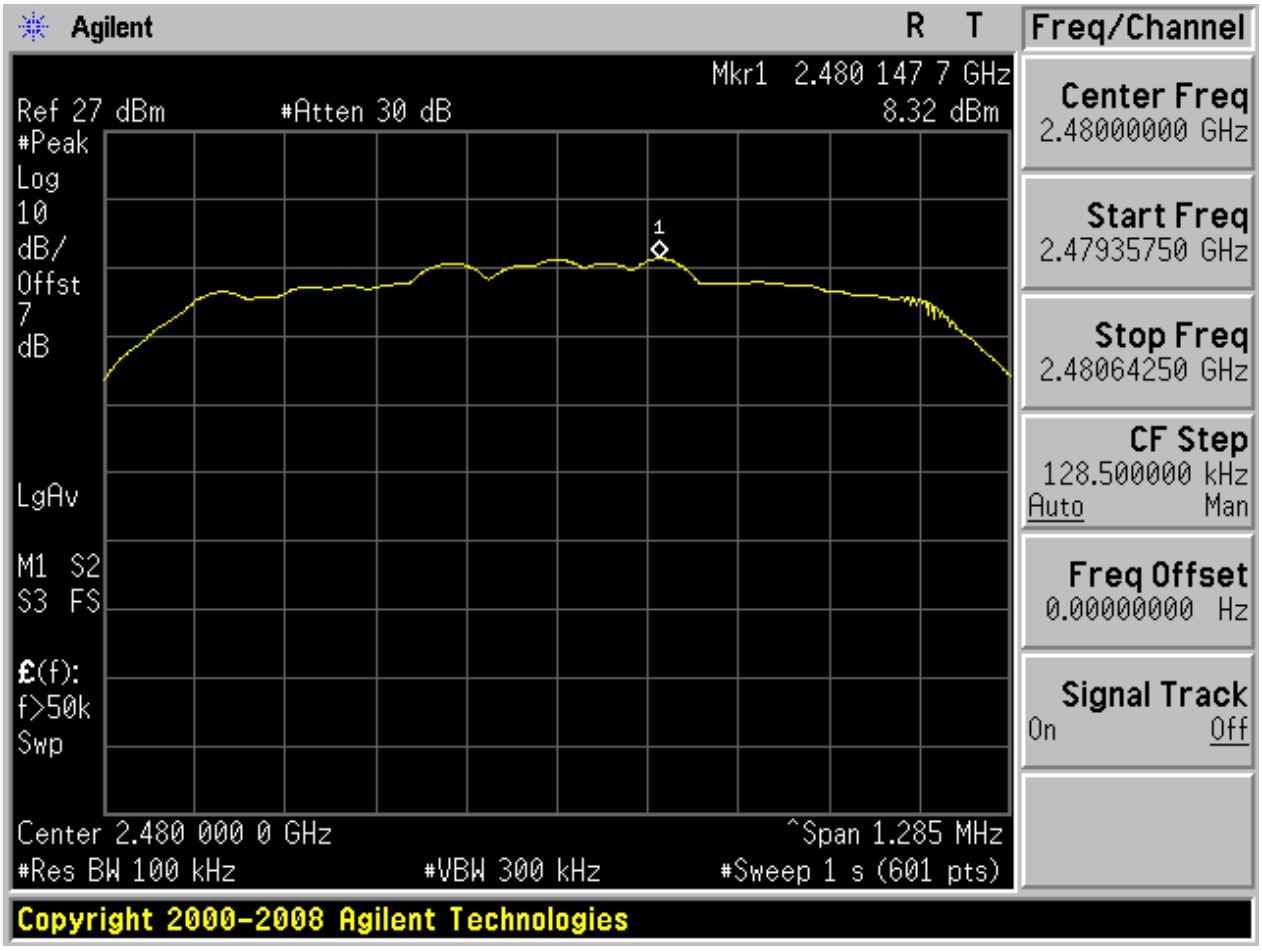




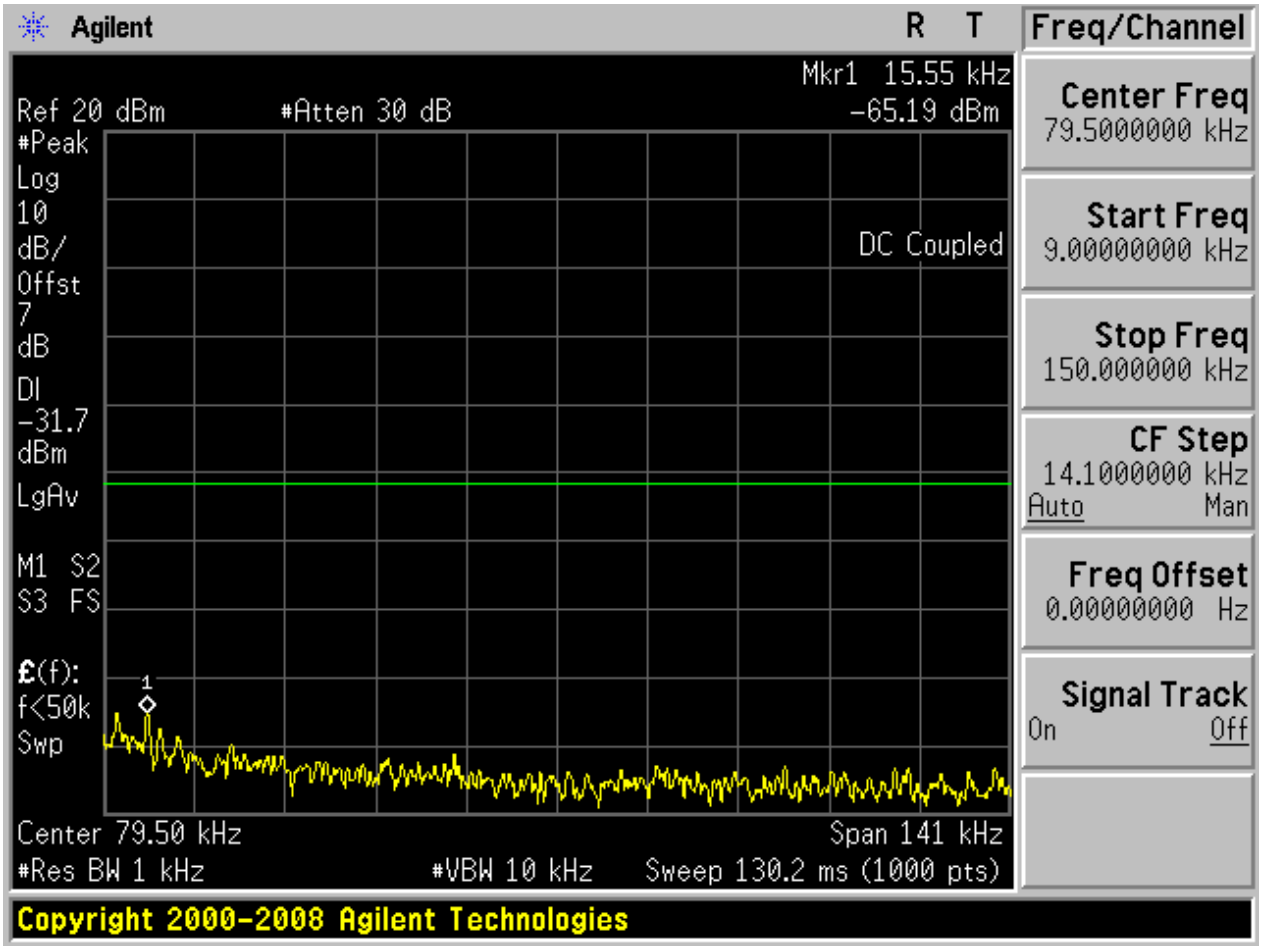


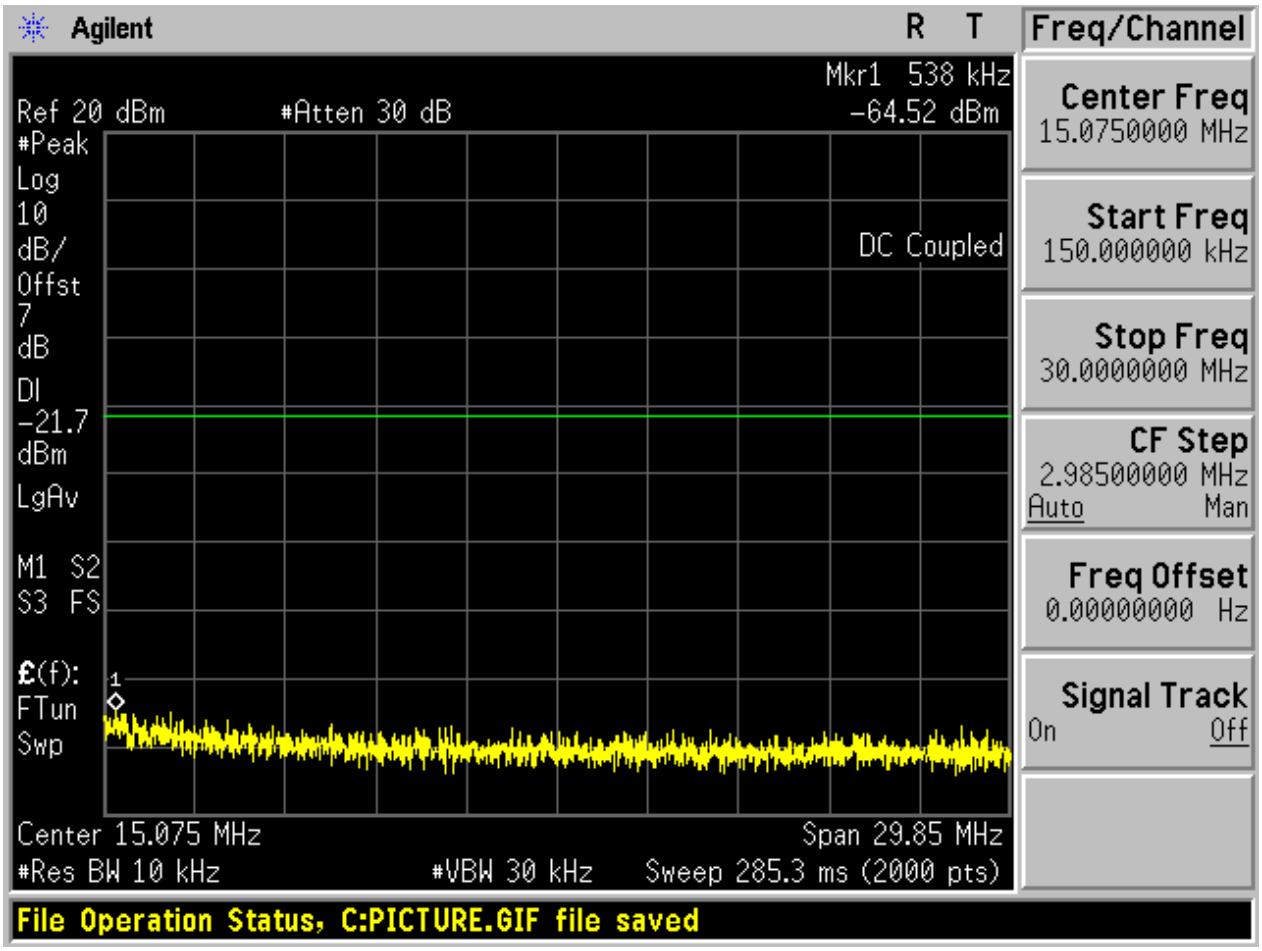
2.6 TM2_2DH5_Ch78

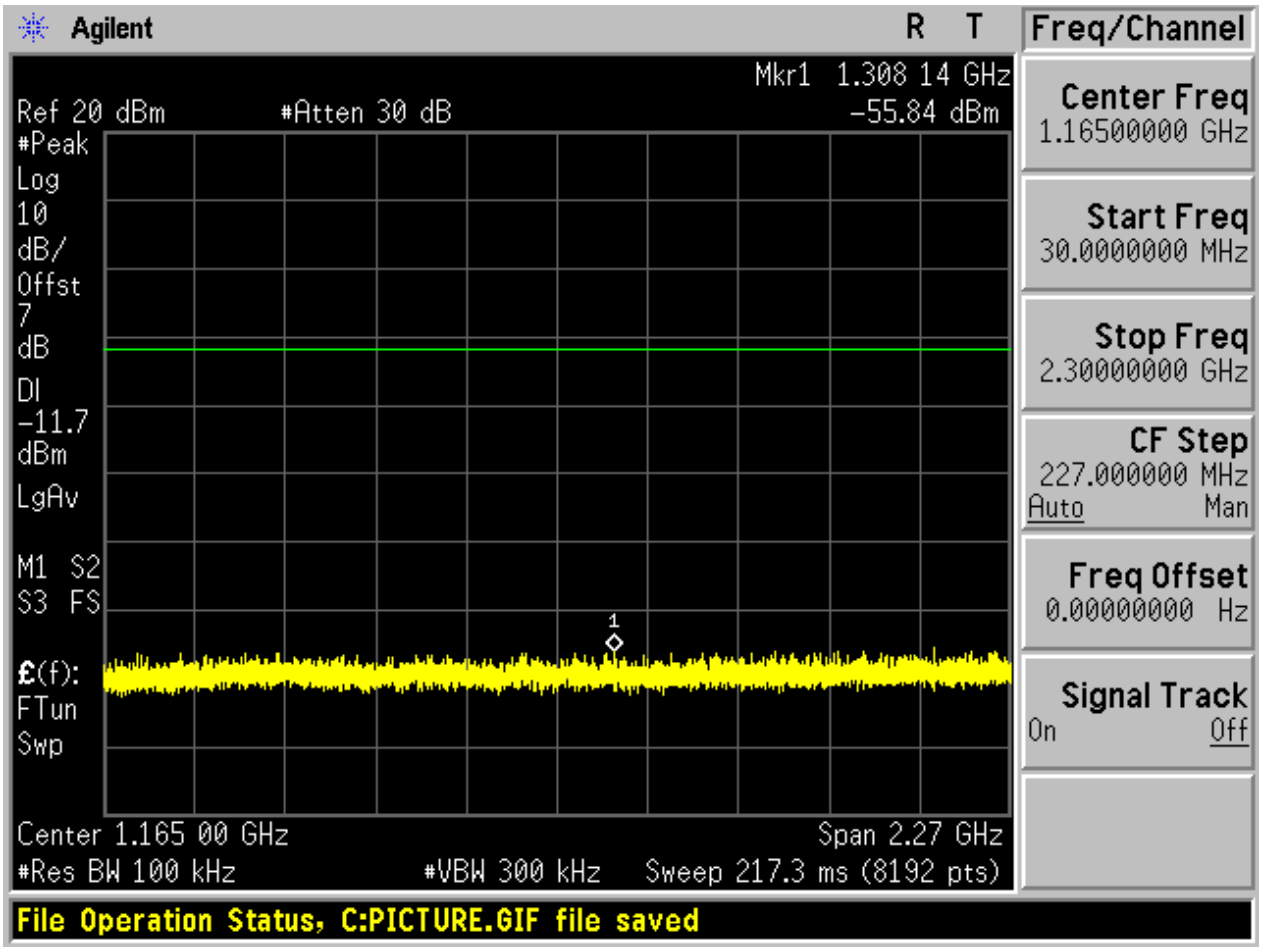
2.6.1 Pref

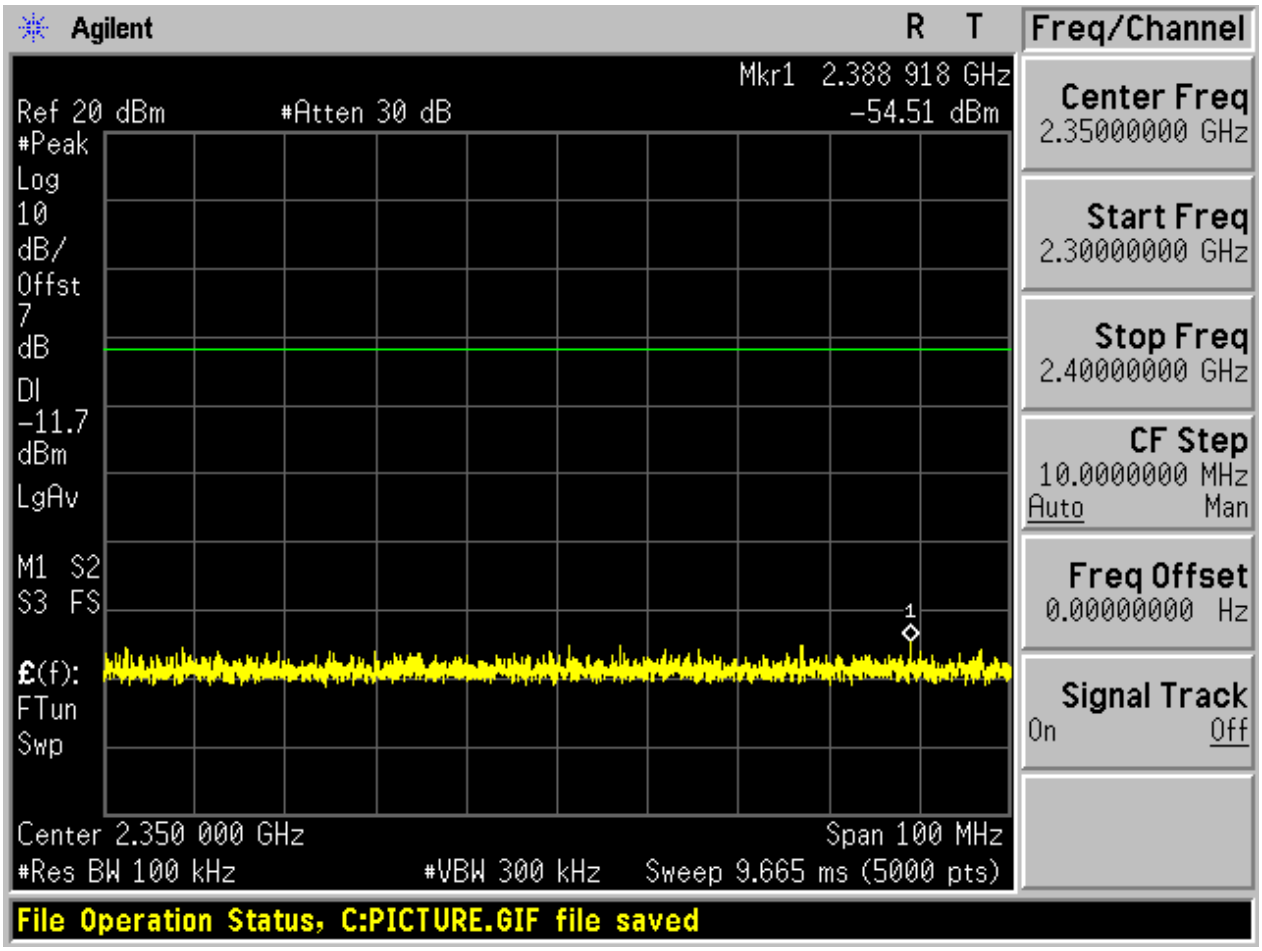


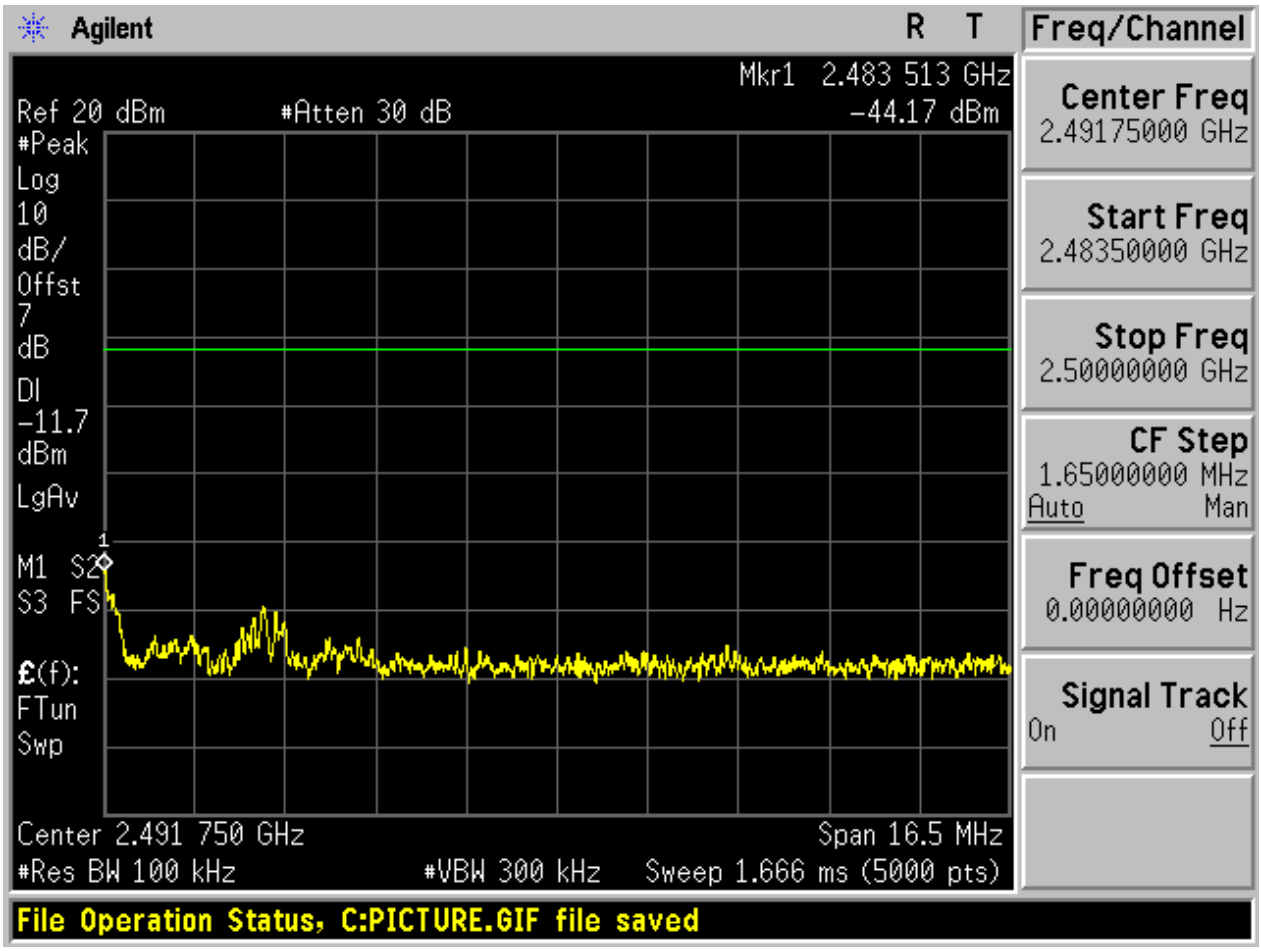
2.6.2 Puw

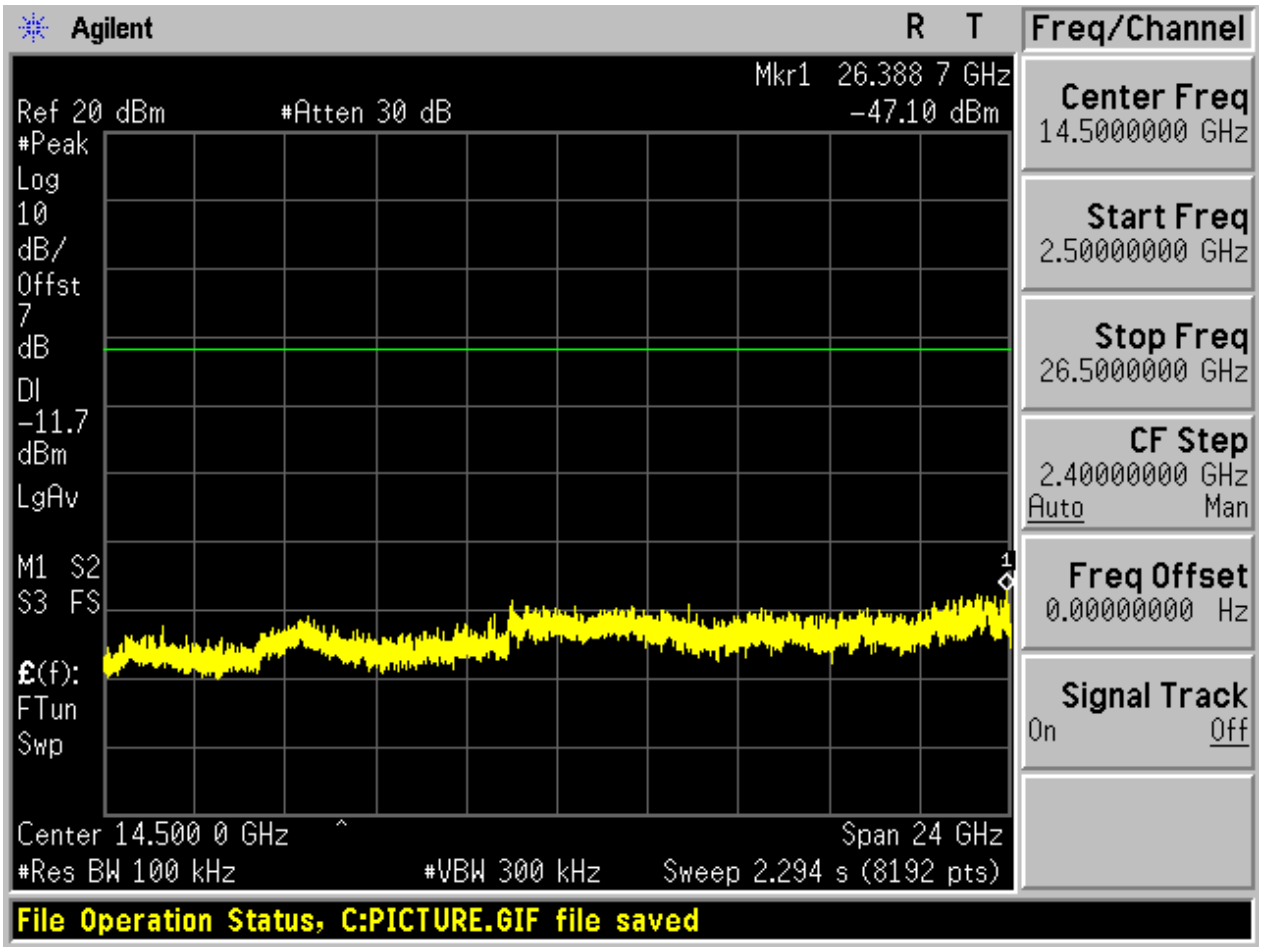






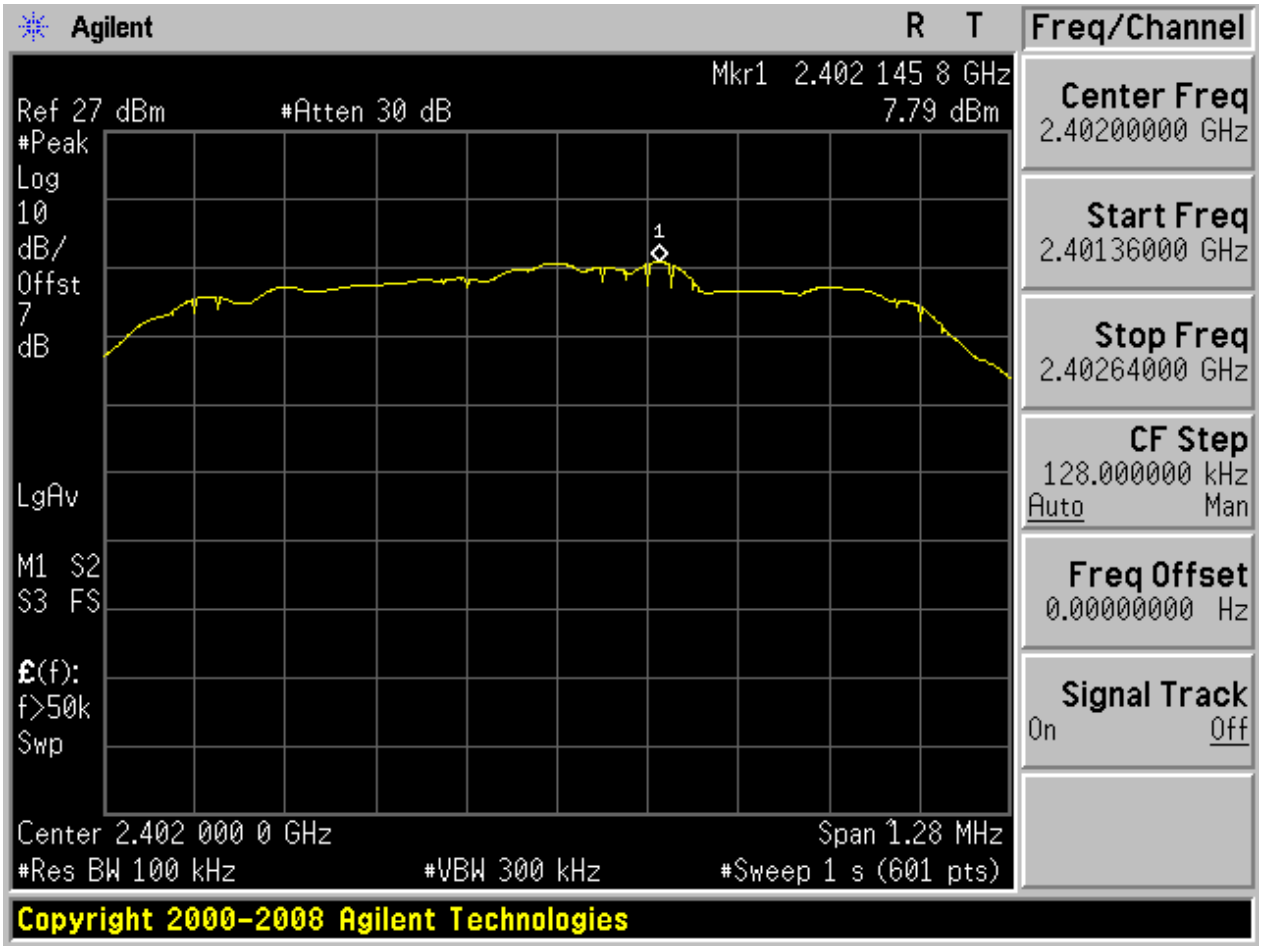




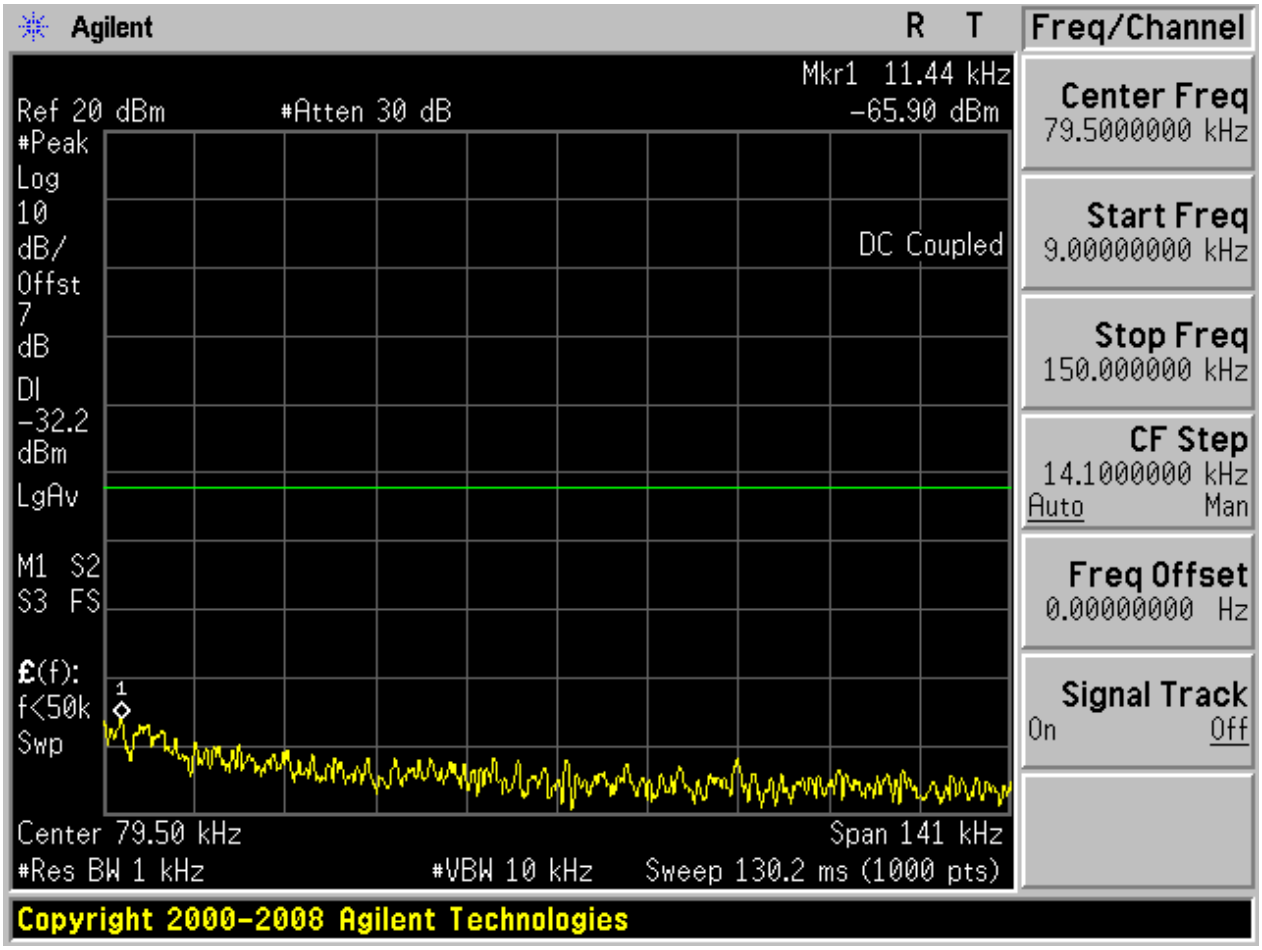


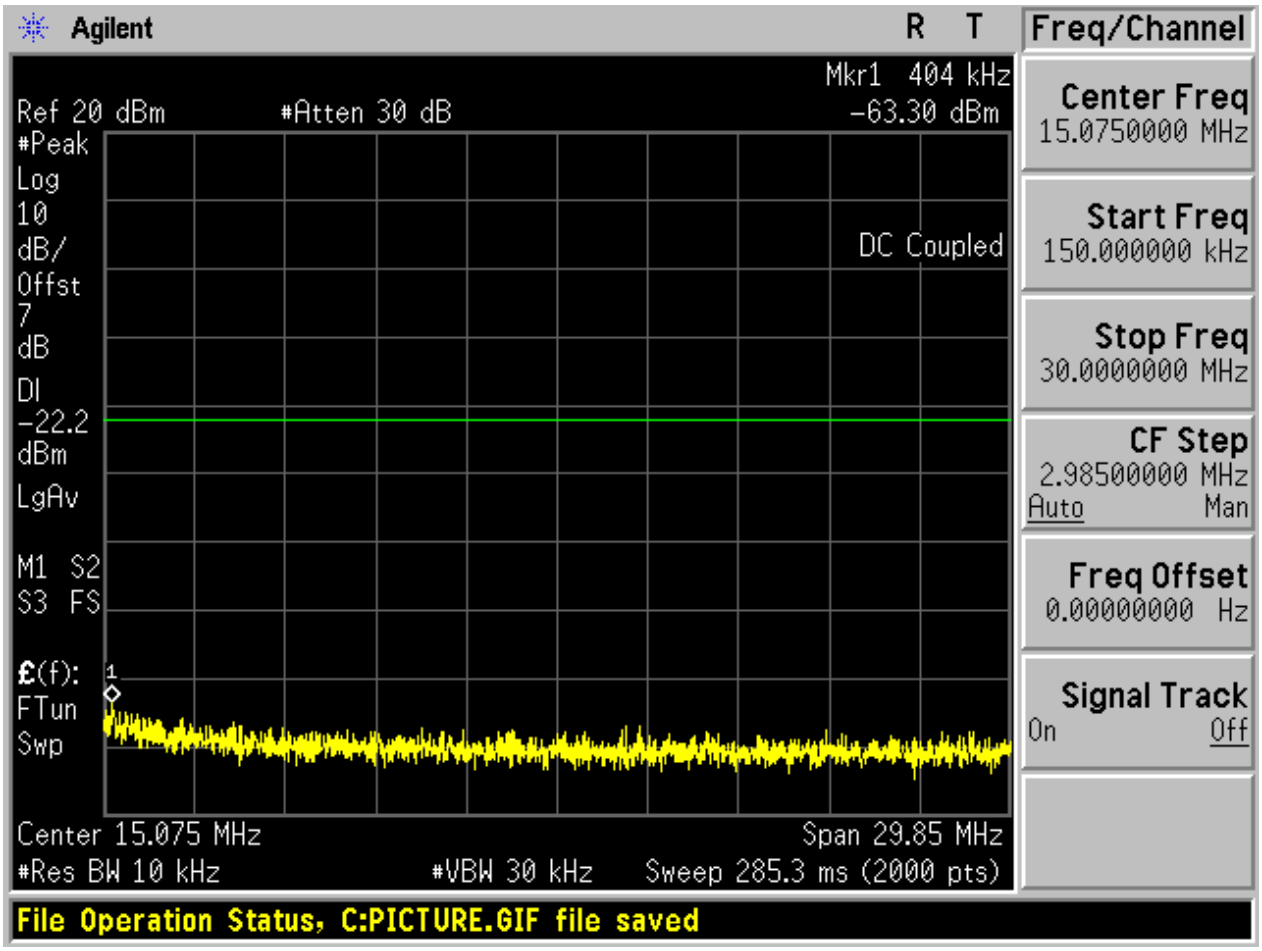
2.7 TM3_3DH5_Ch0

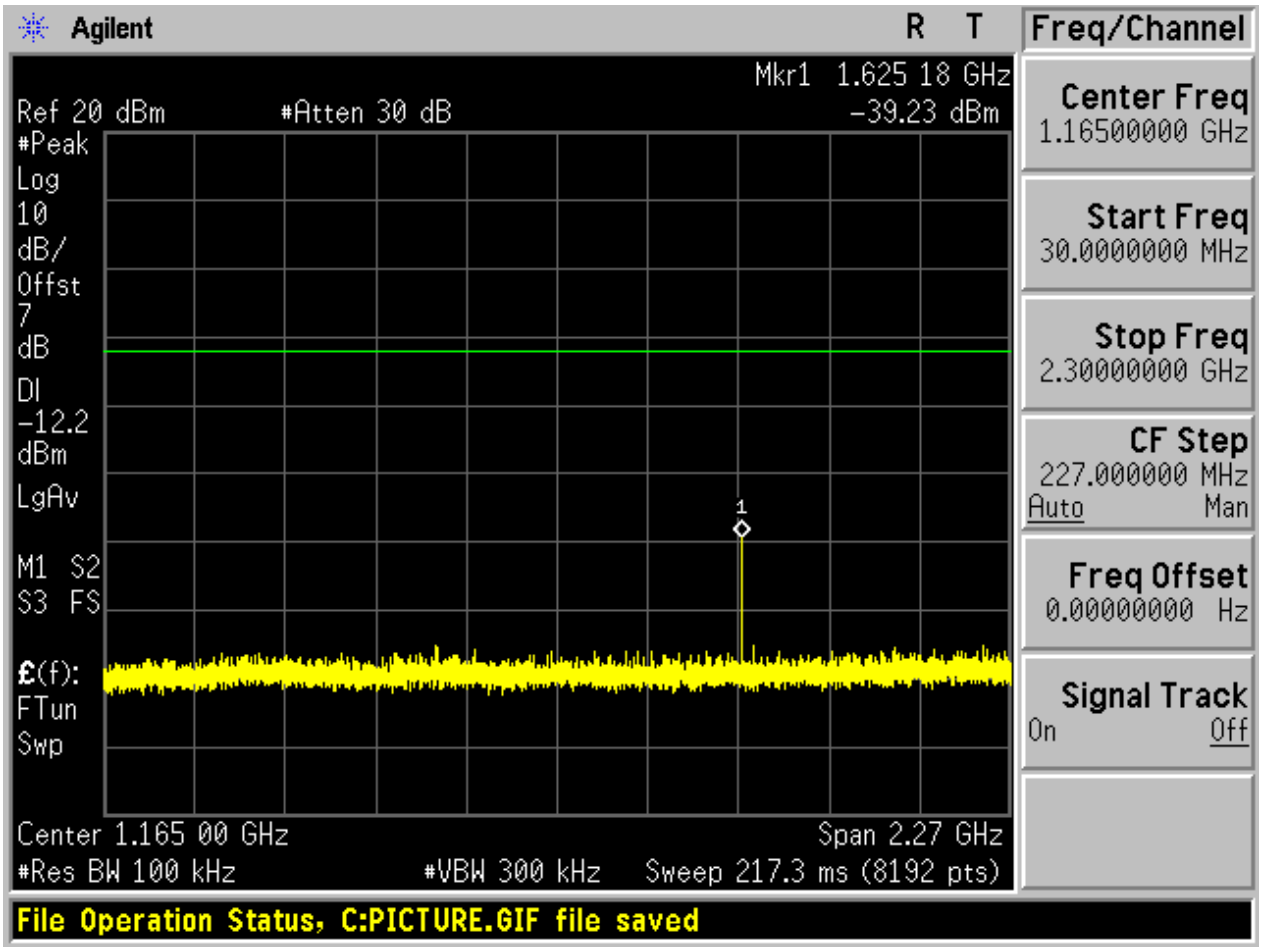
2.7.1 Pref

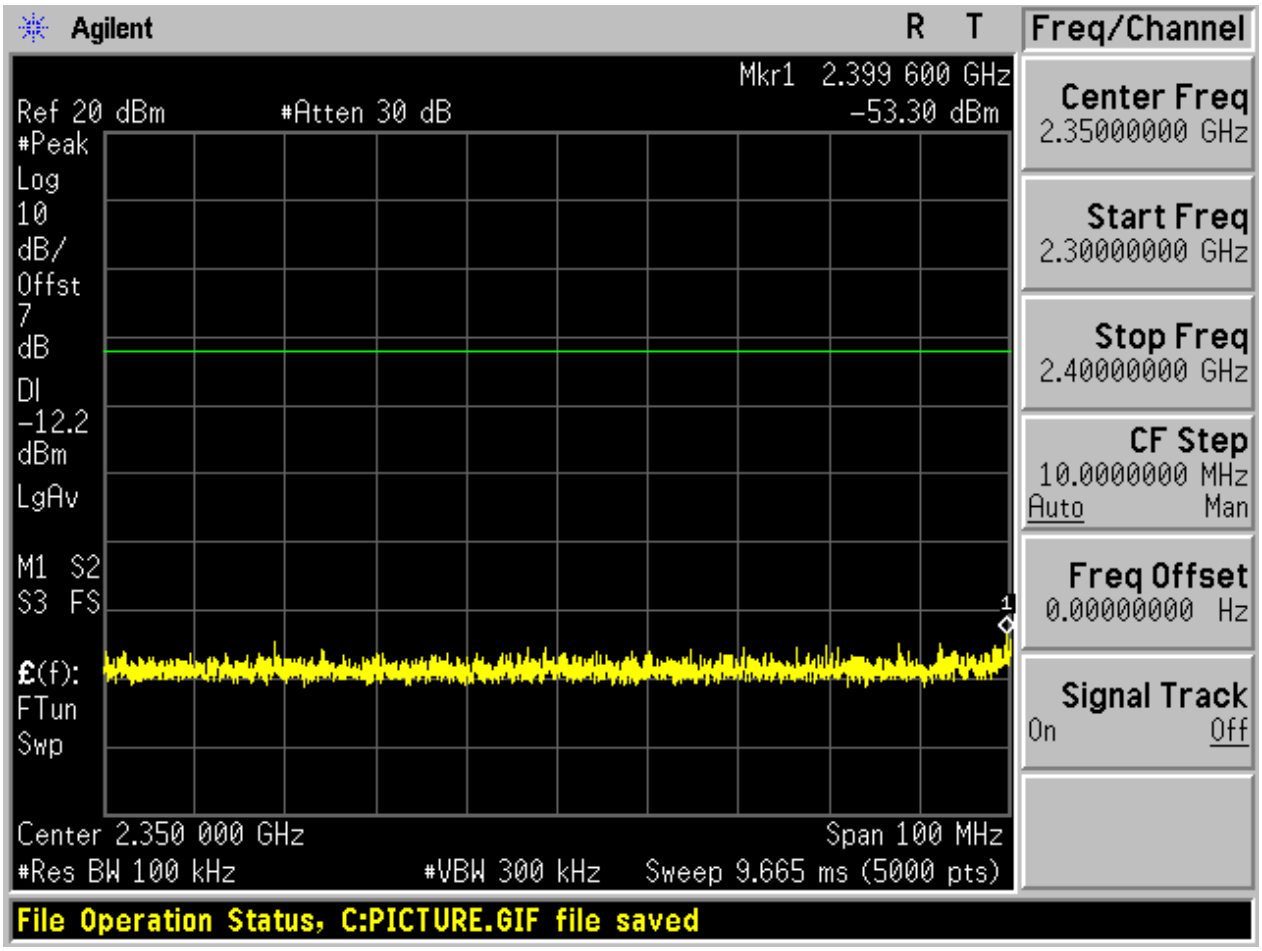


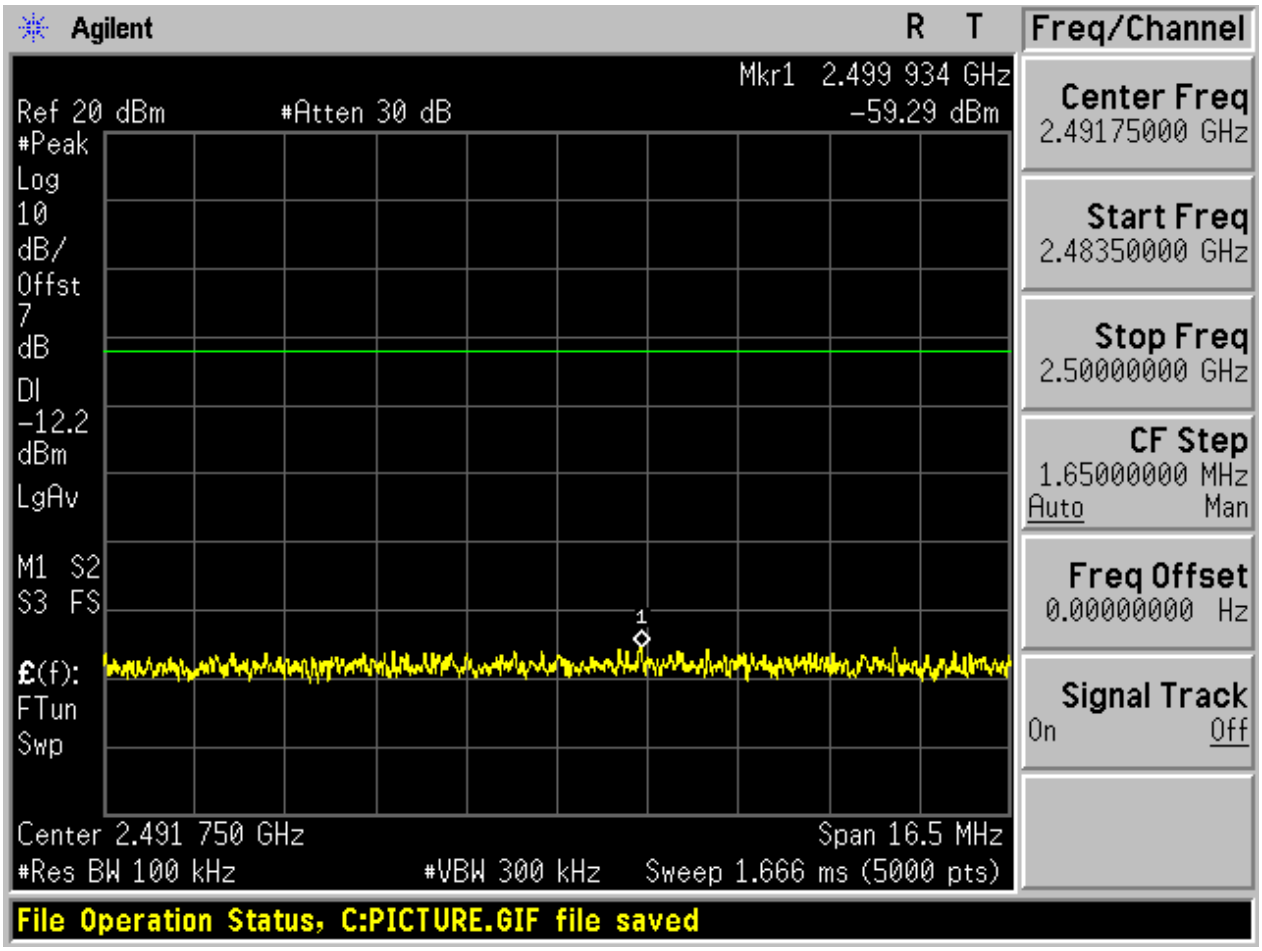
2.7.2 Puw

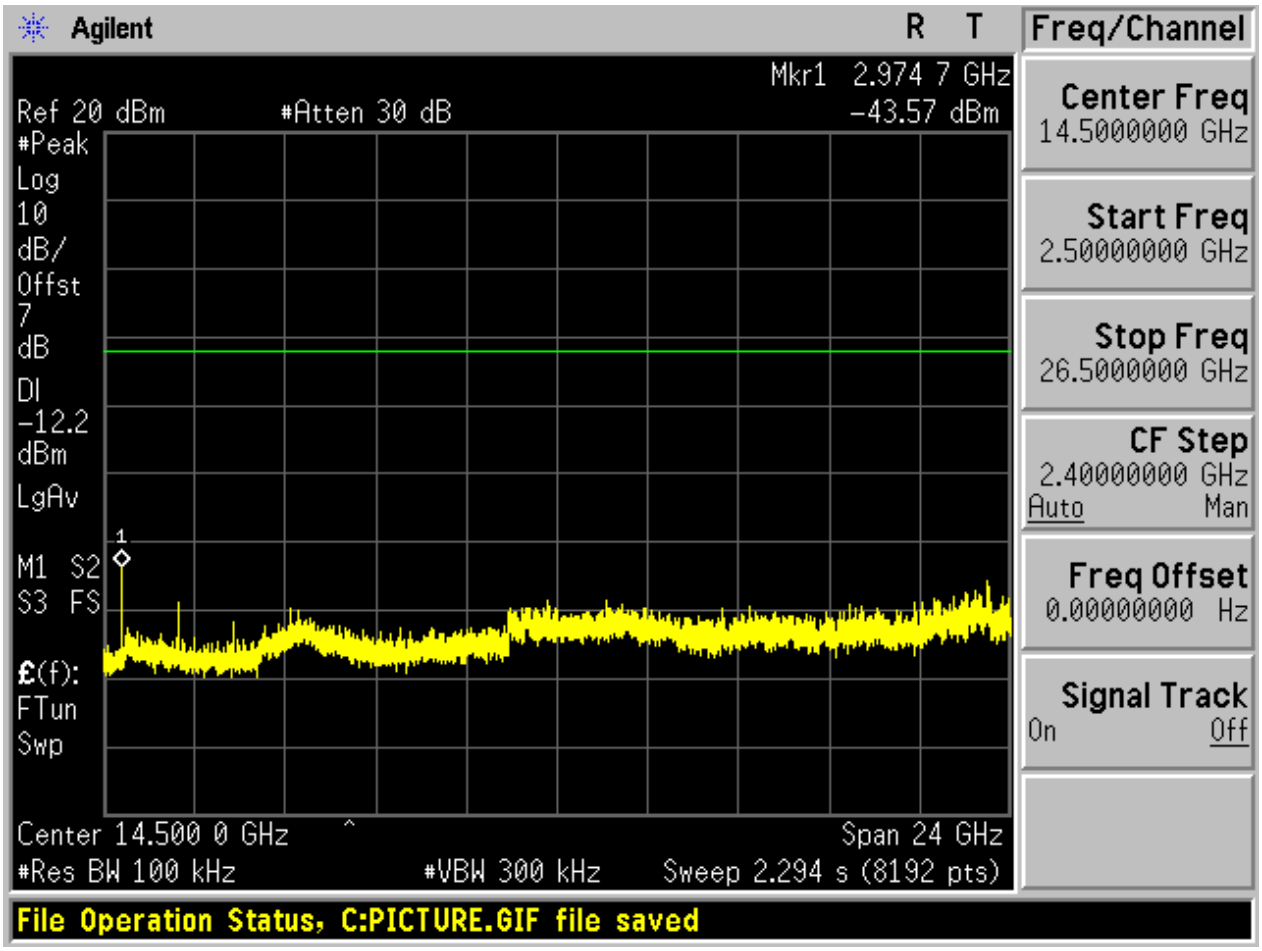






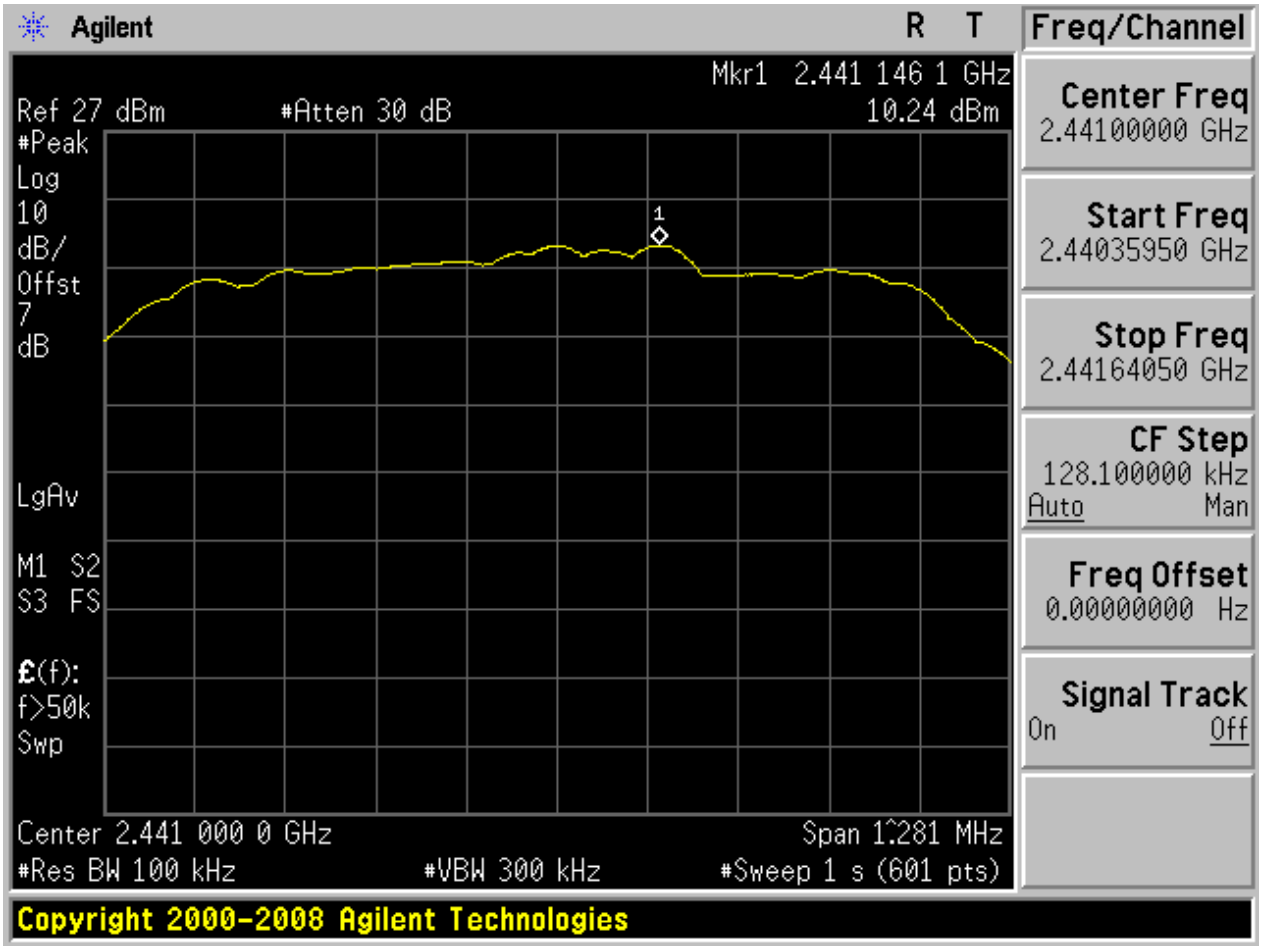




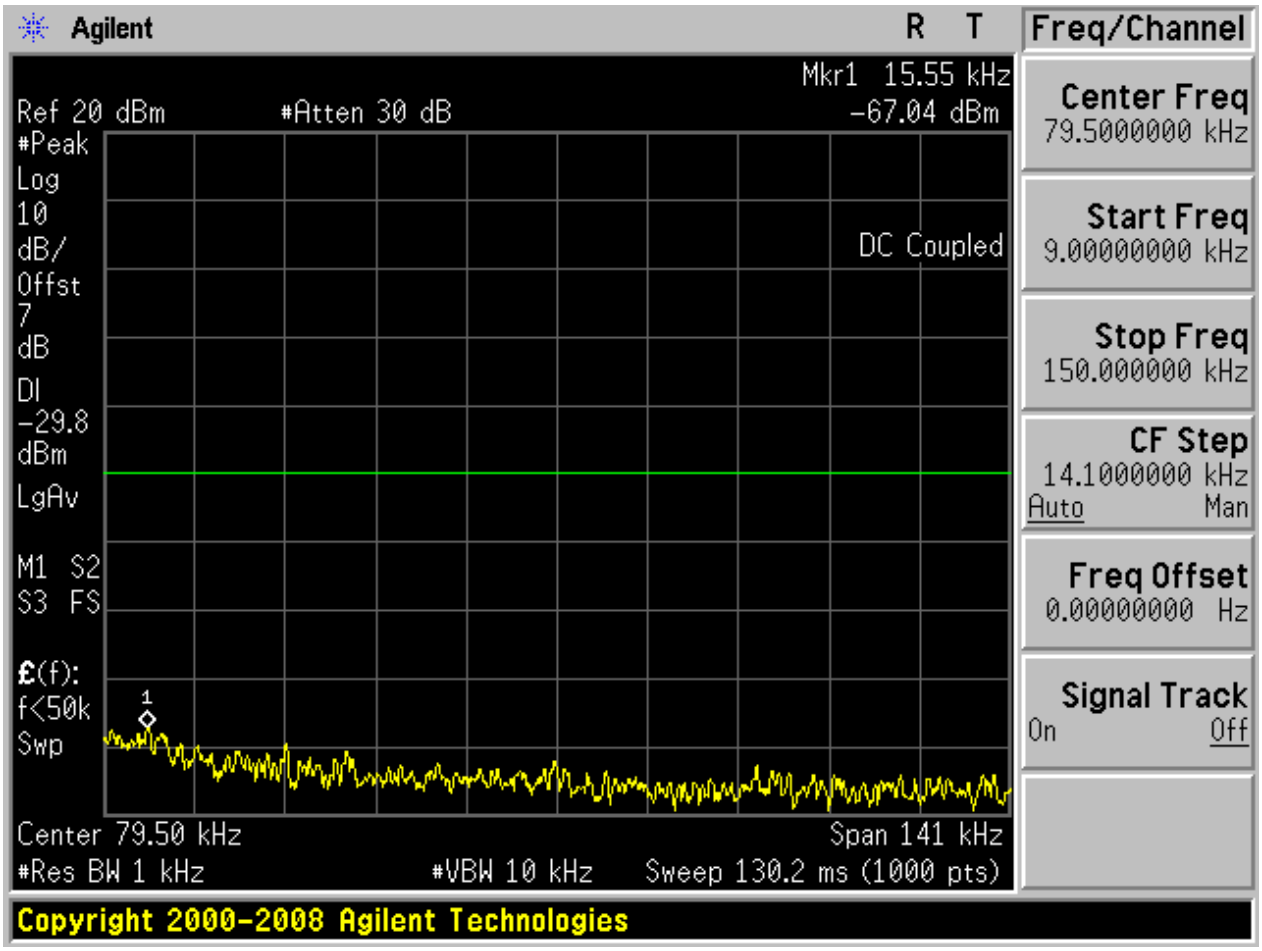


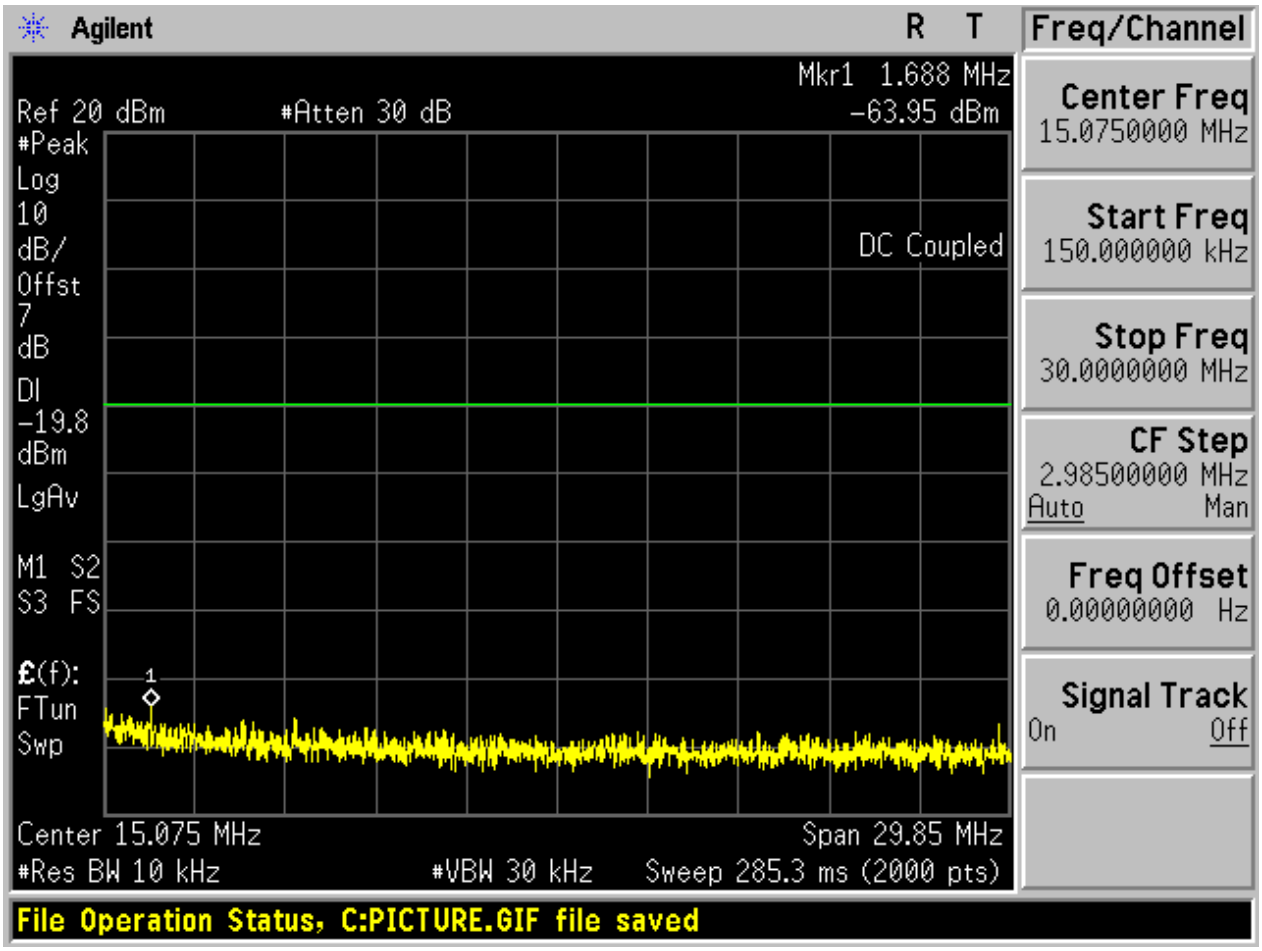
2.8 TM3_3DH5_Ch39

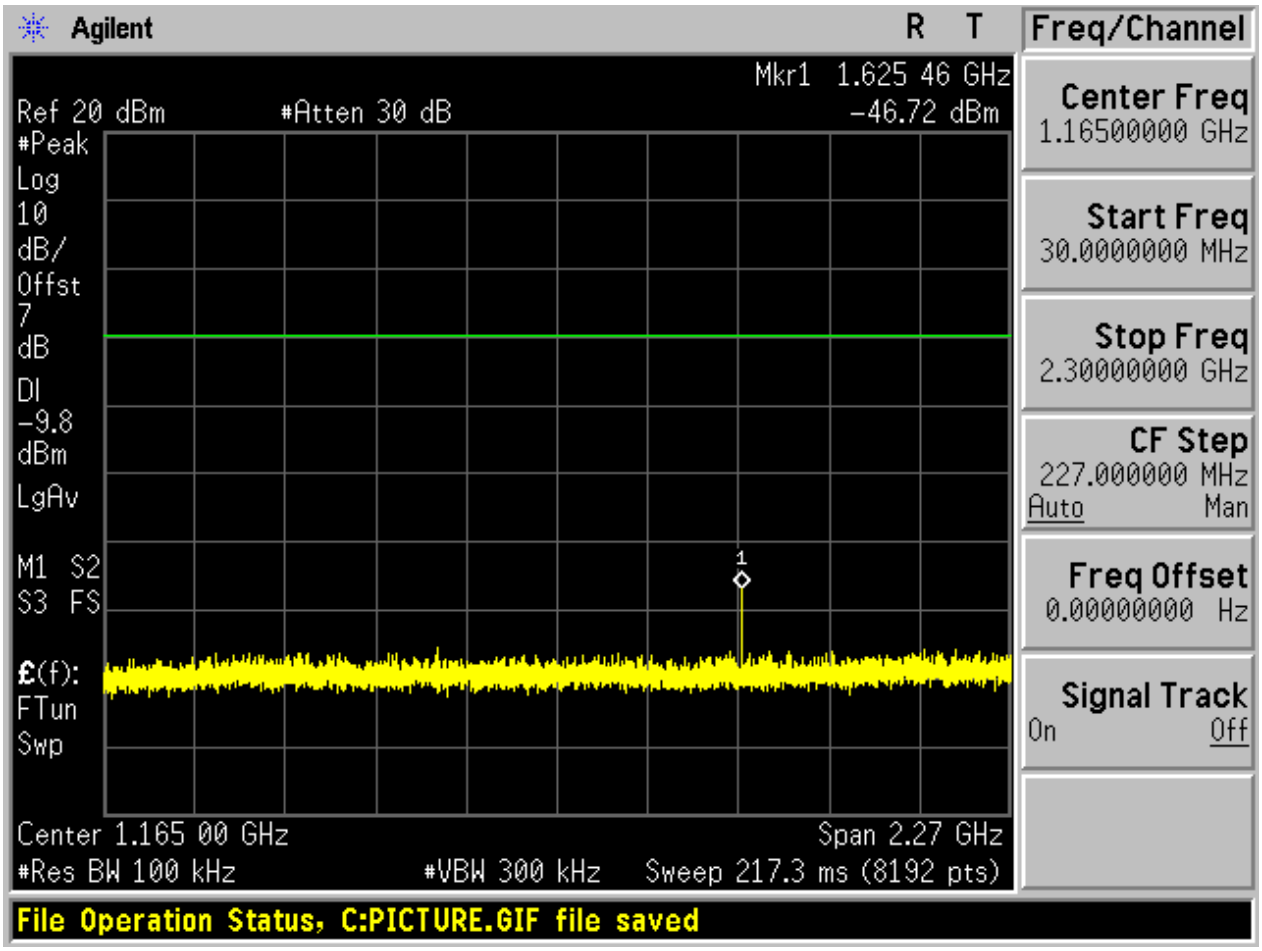
2.8.1 Pref

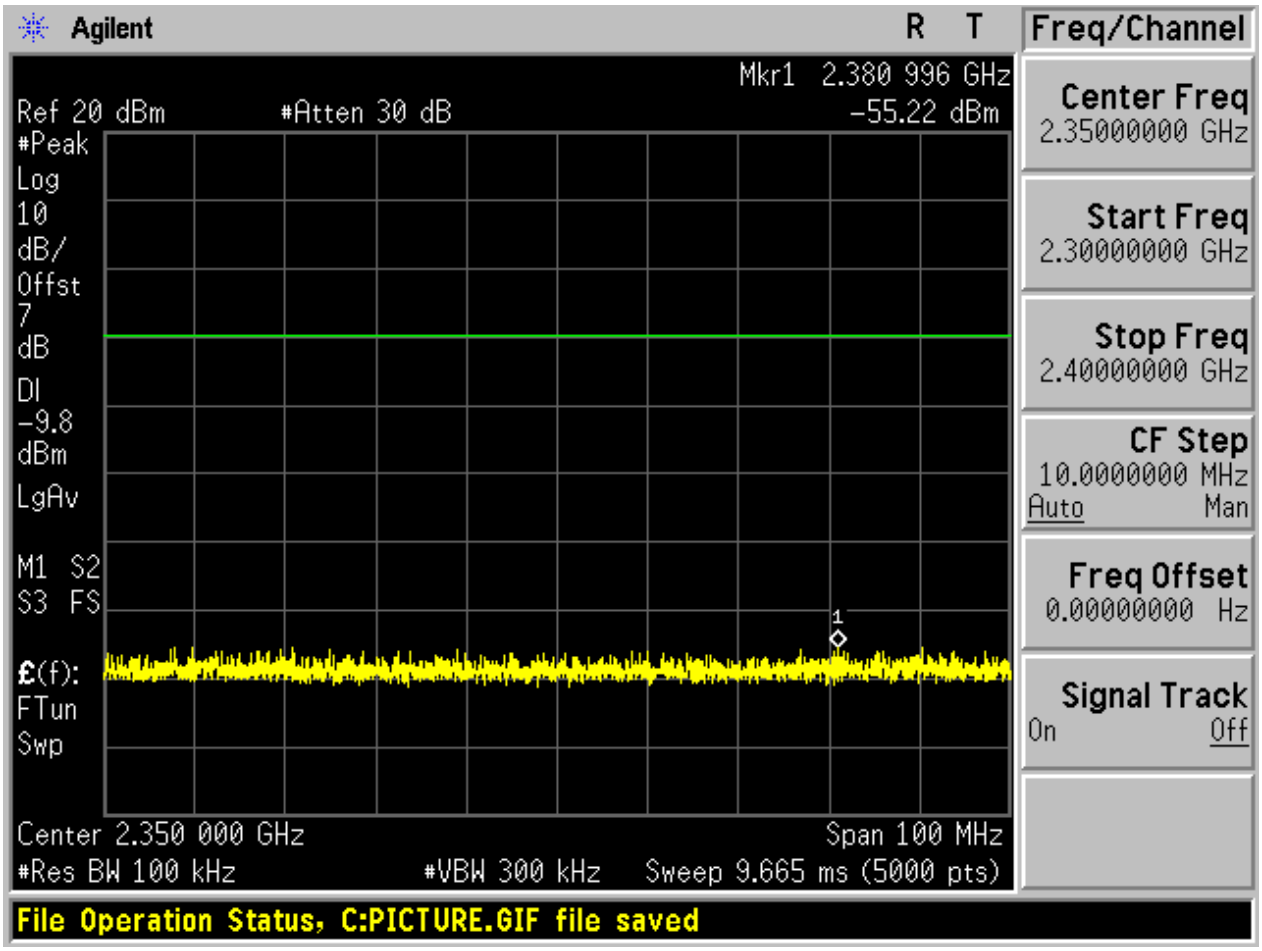


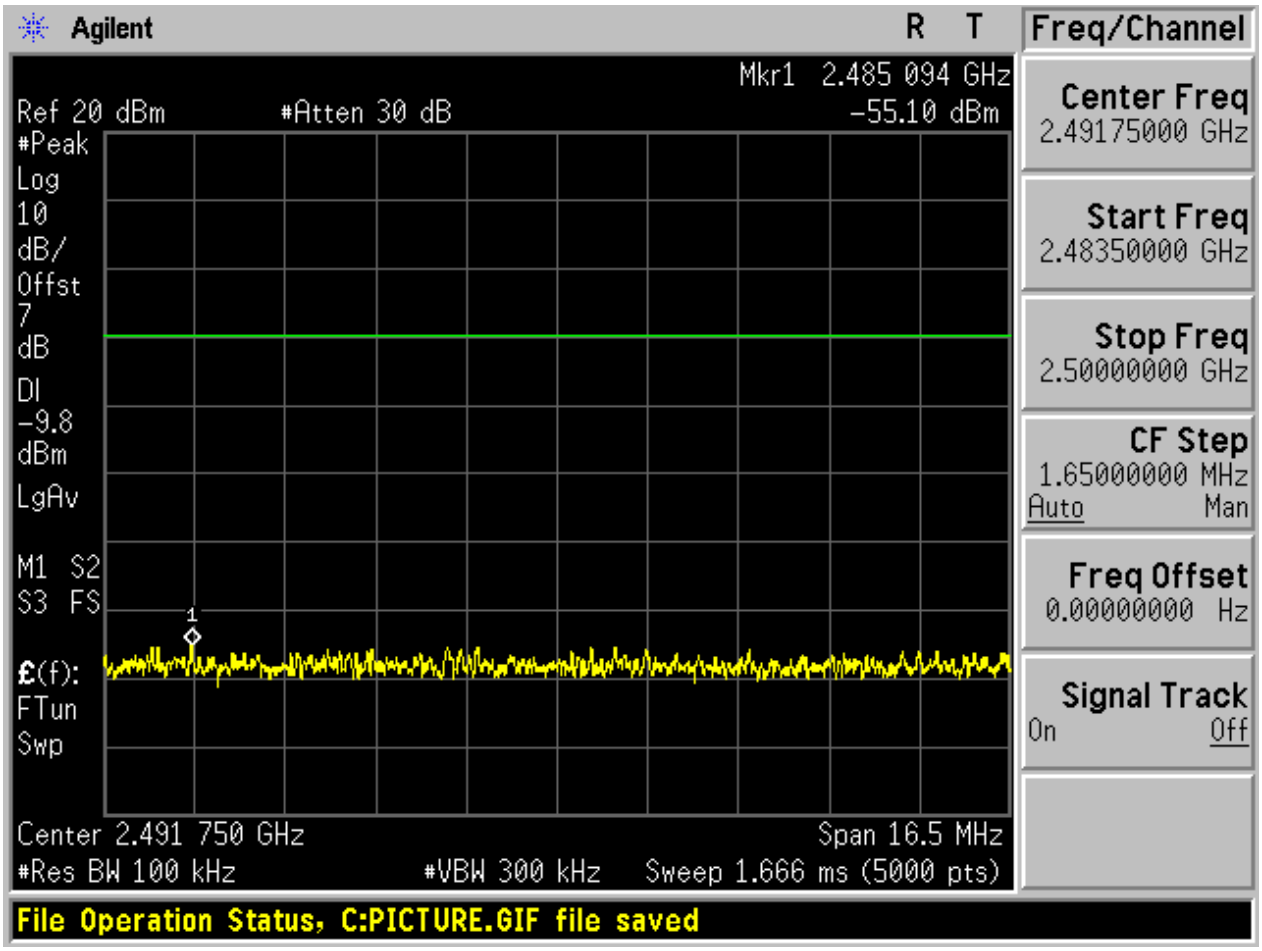
2.8.2 Puw

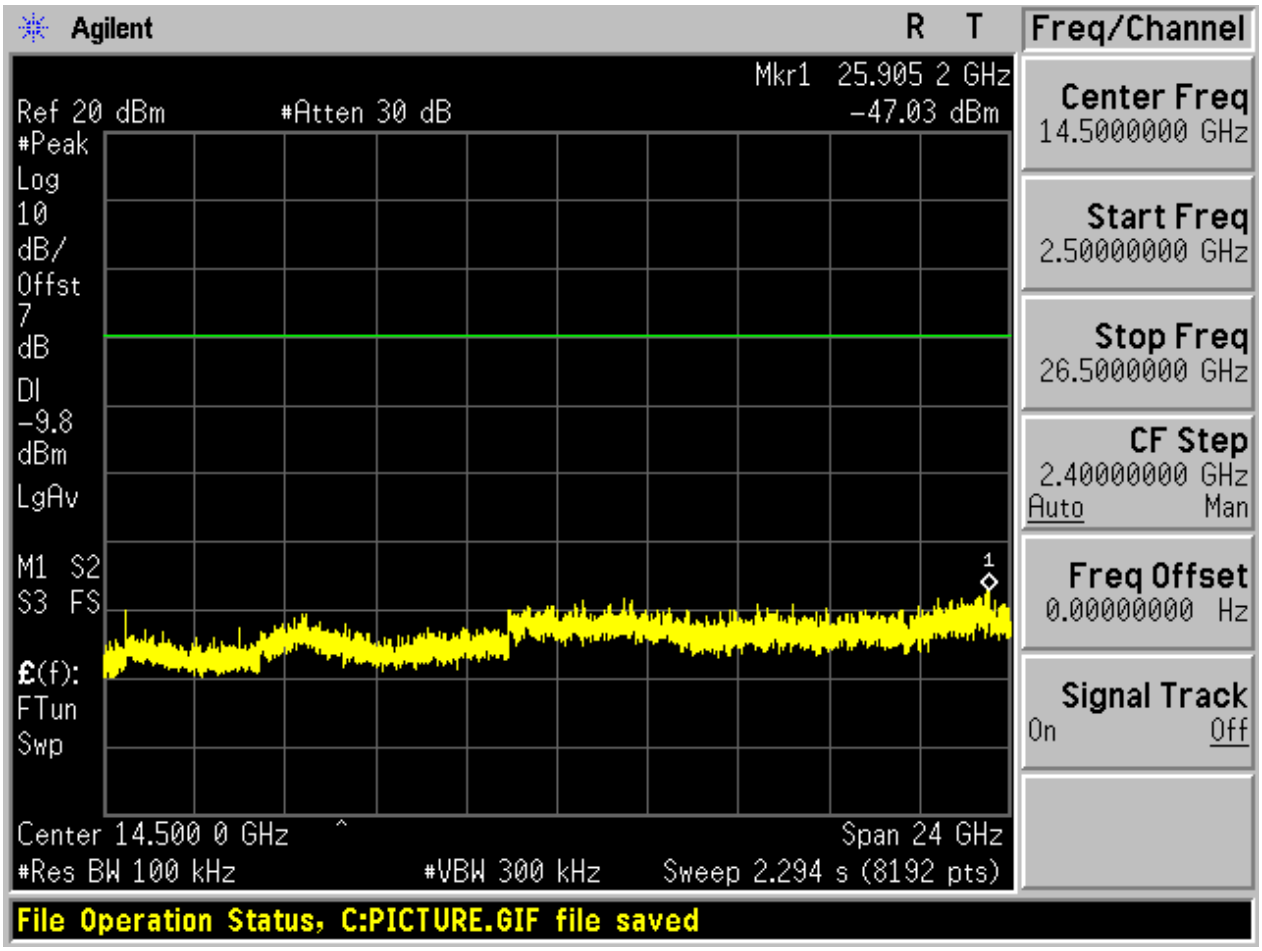






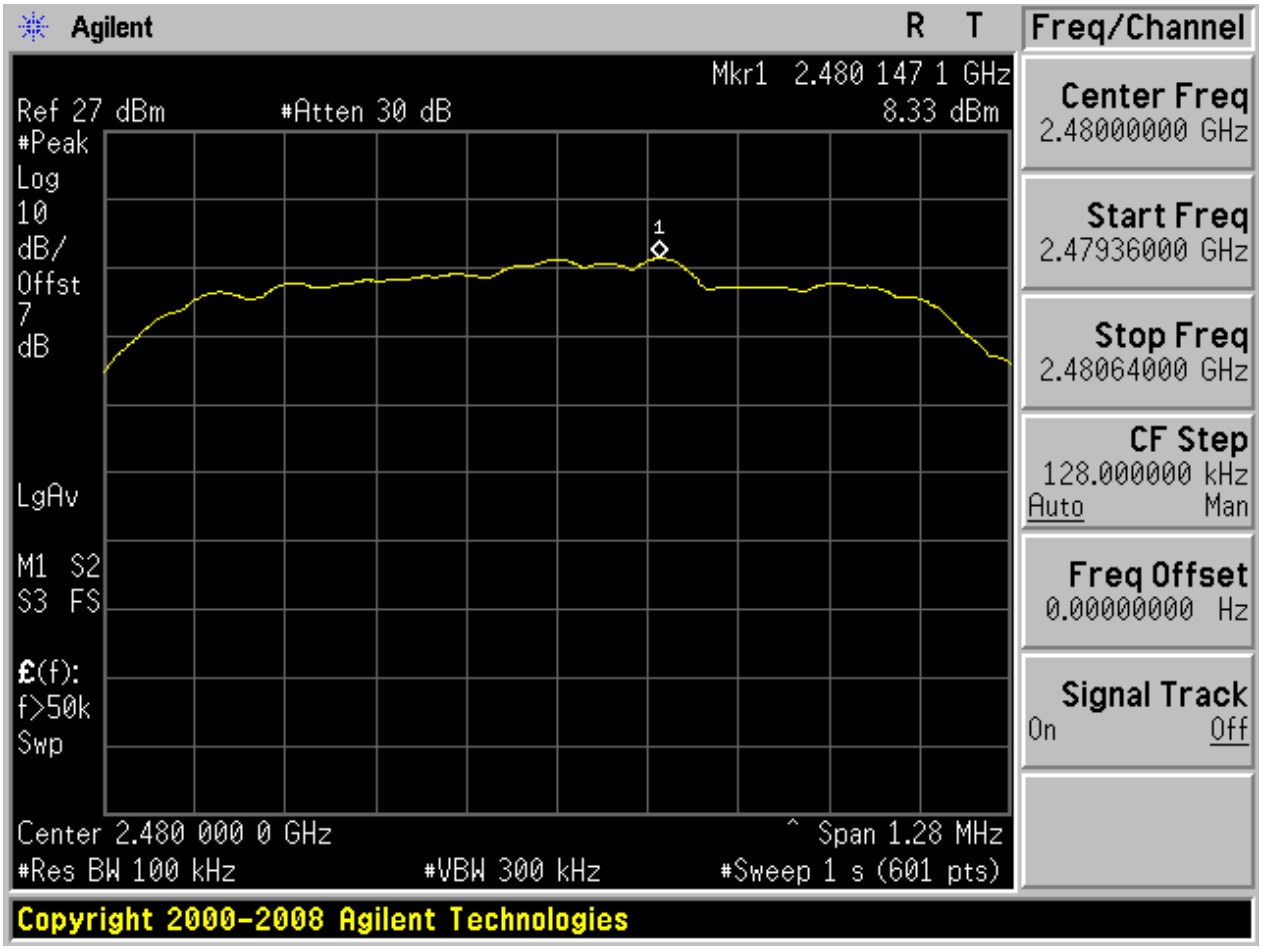




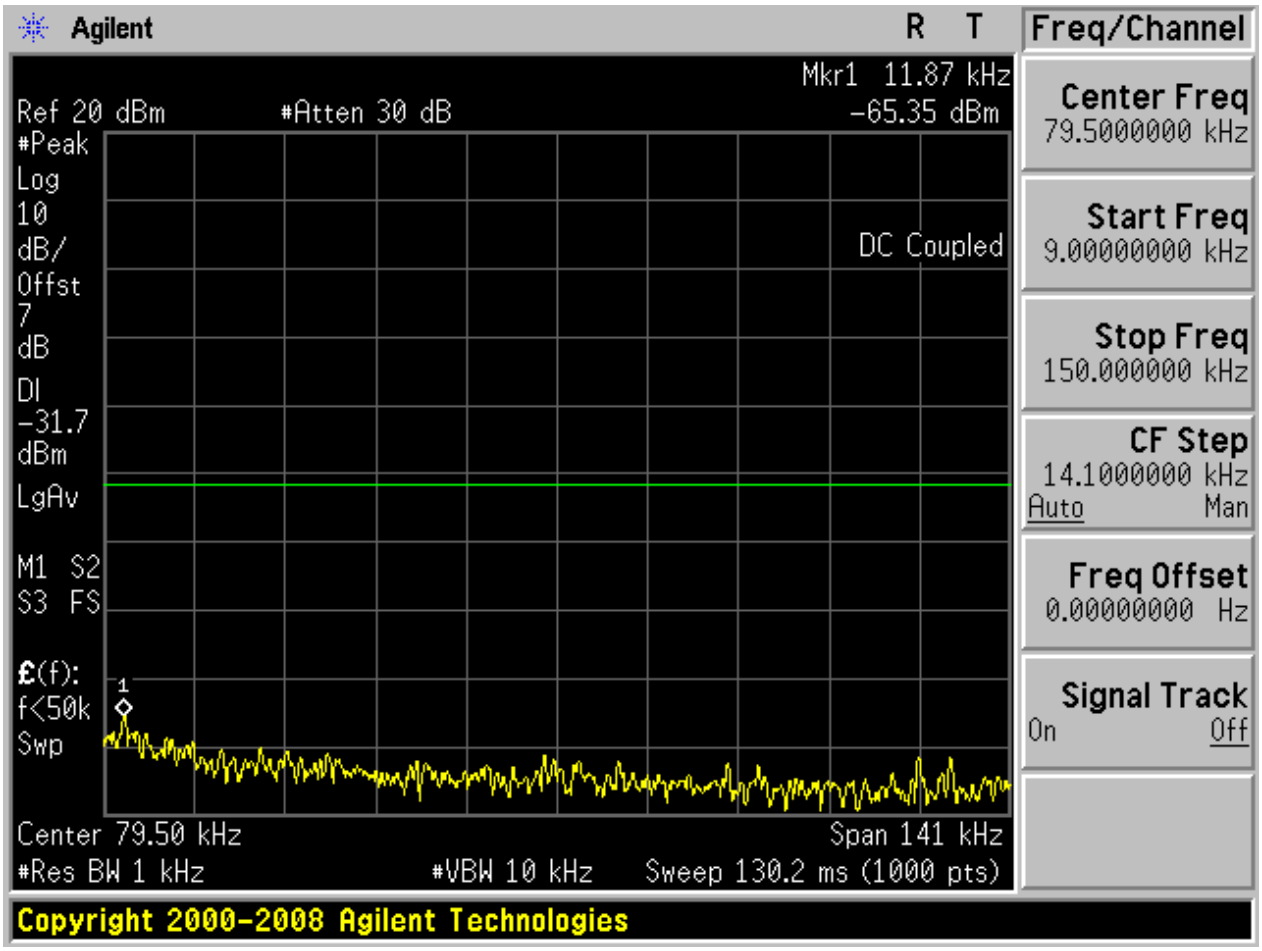


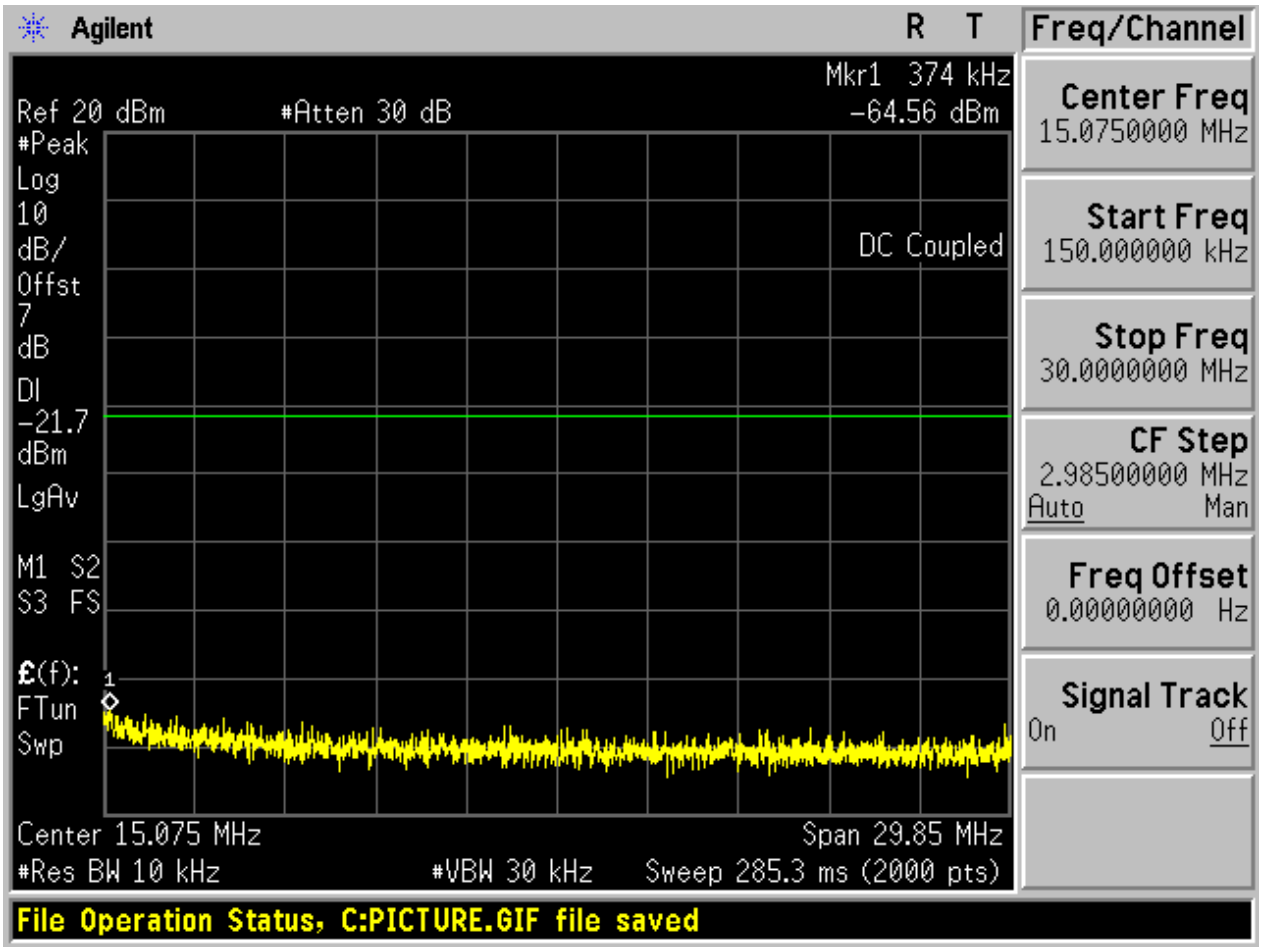
2.9 TM3_3DH5_Ch78

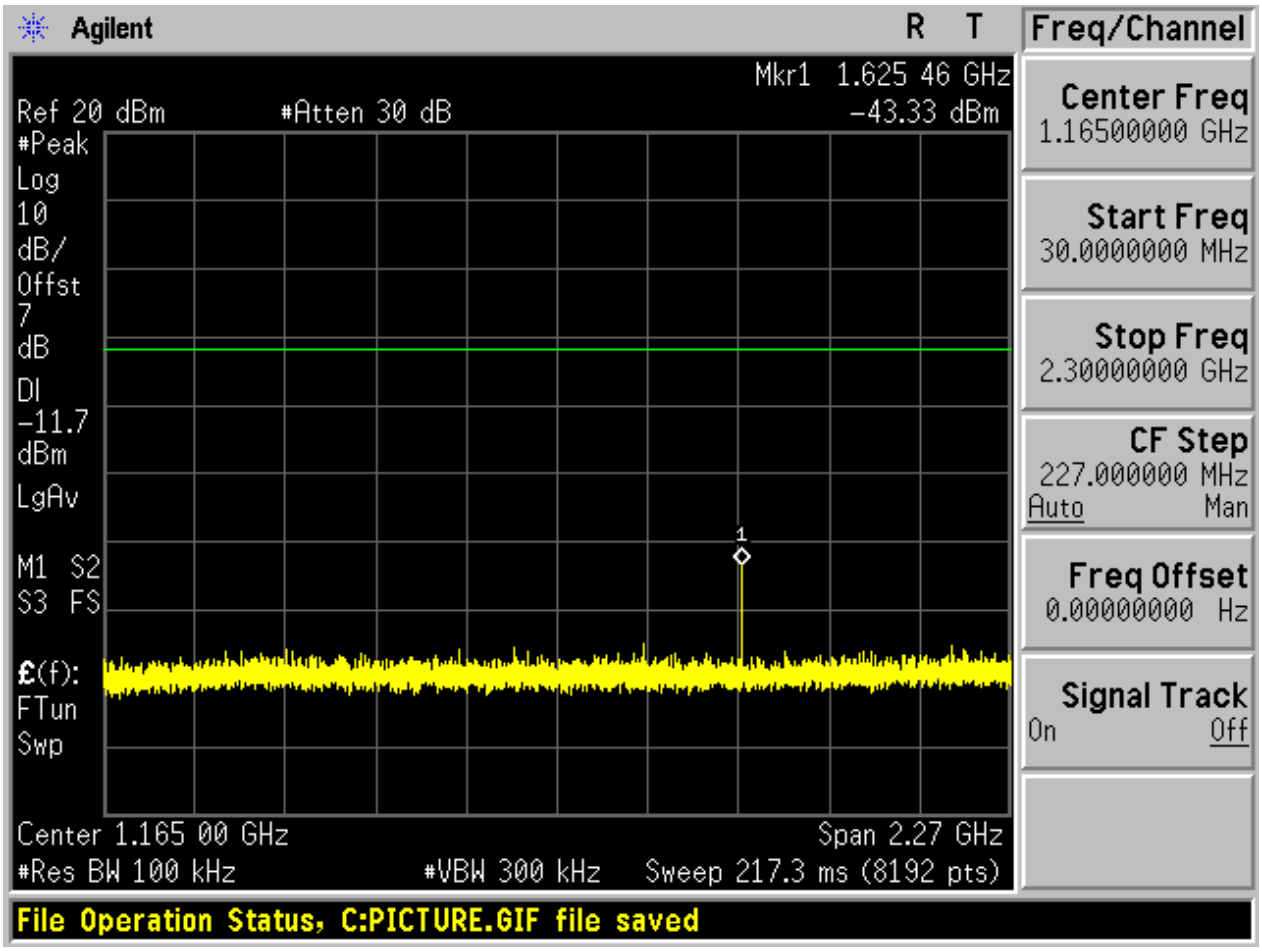
2.9.1 Pref

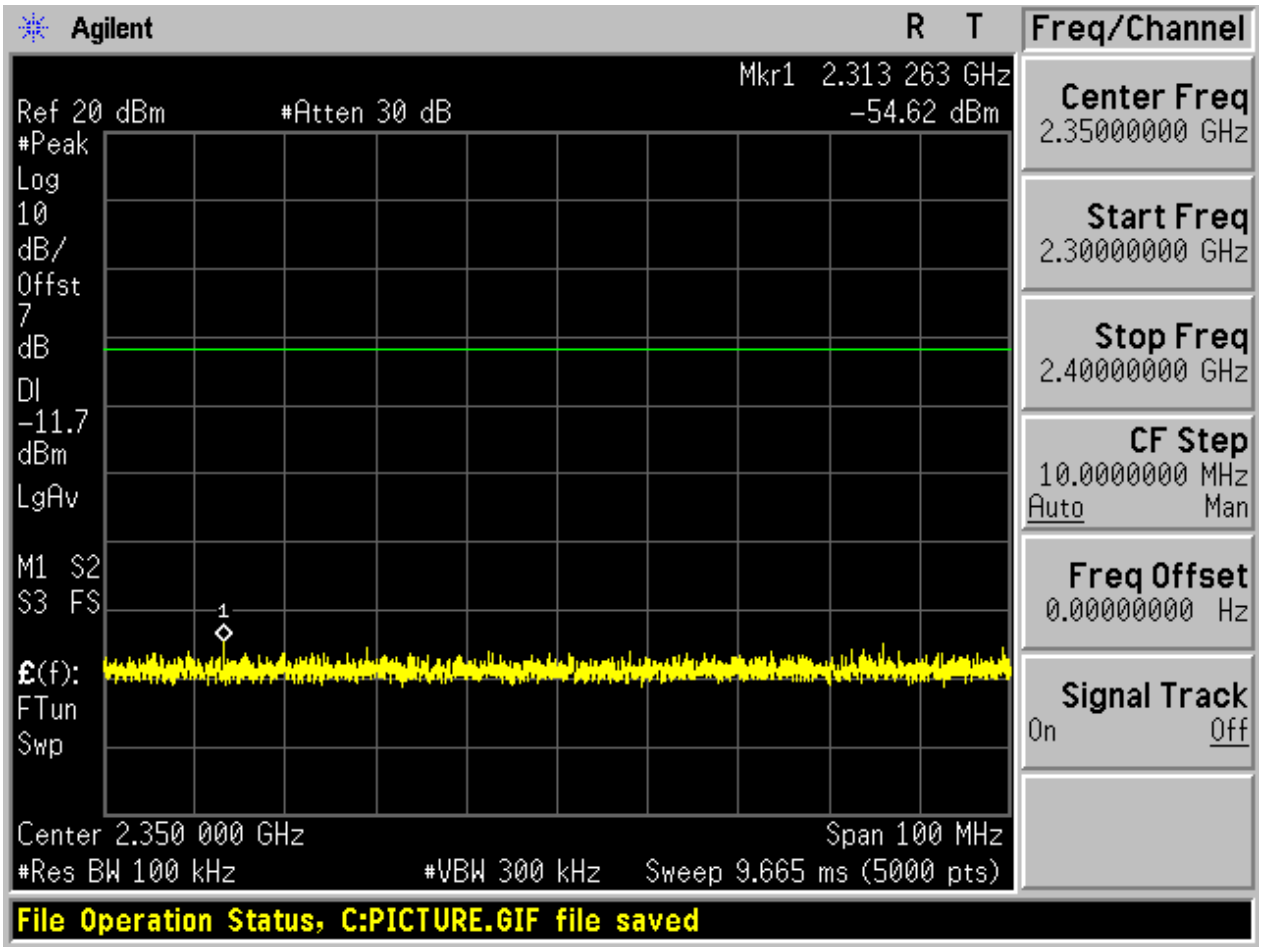


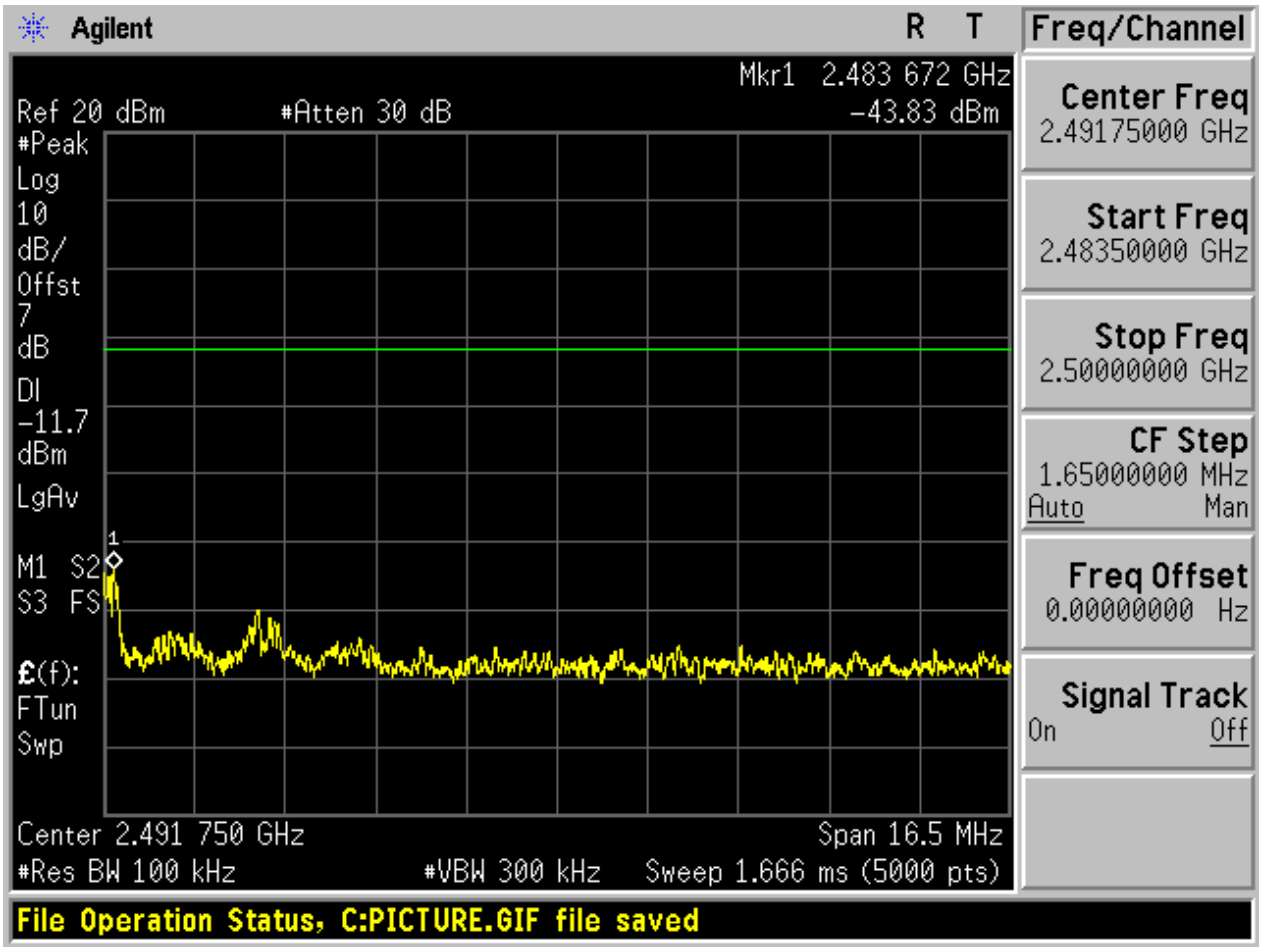
2.9.2 Puw

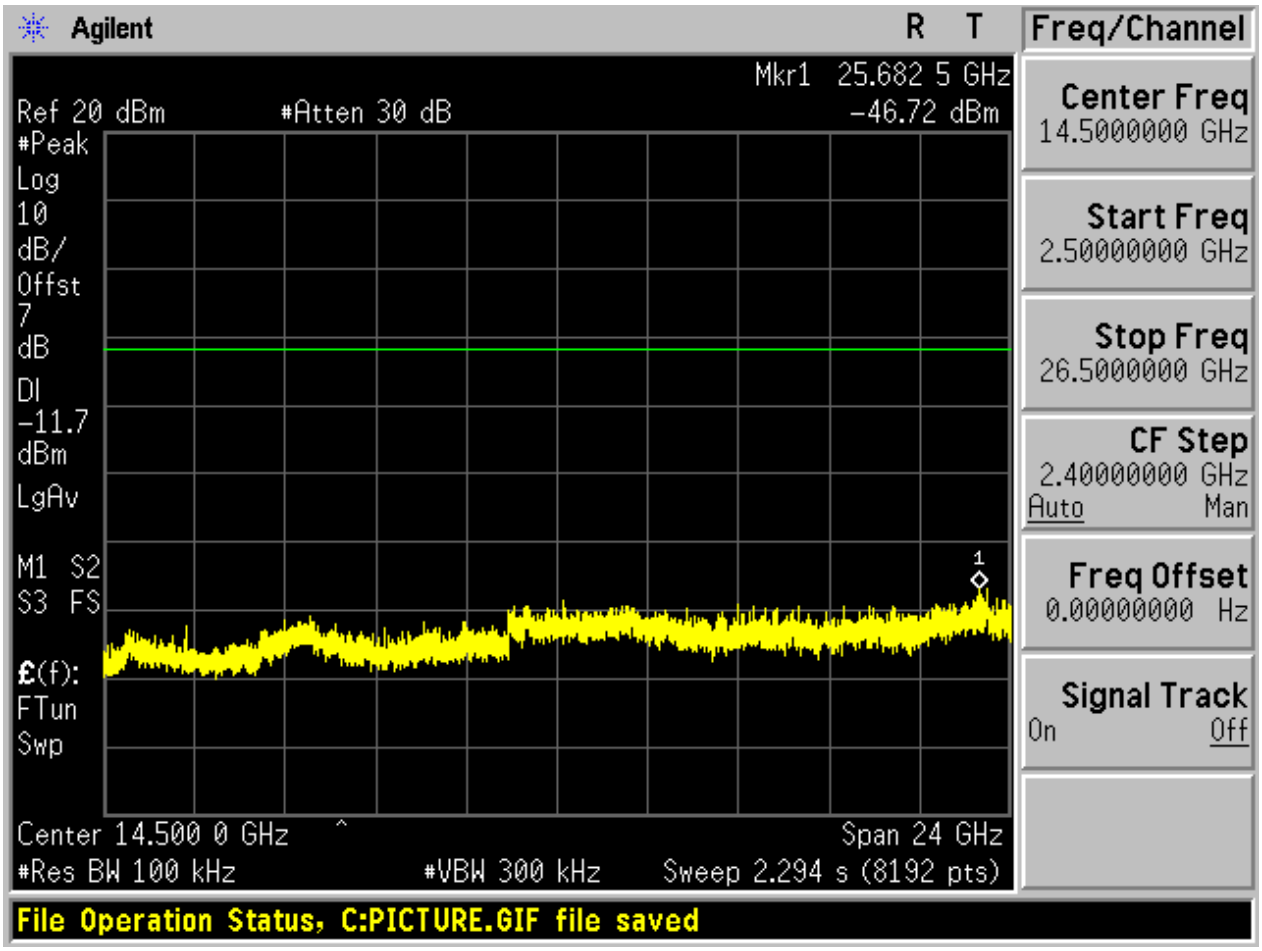












Appendix H: Radiated Emissions in the Restricted Bands

Note: We tested all modes, but the data presented below is the worst case.

1 Result Table

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 “9 KHz to 30 MHz”,
  (Part 2): Test range of “30 MHz to 1 GHz”,
- (Part 3): Test range of “18 GHz to 26.5 GHz”.
- (Part 4): Test range of “2.3 GHz to 2.5 GHz”, and
- (Part 5): Test range of “1 GHz to 18 GHz”.

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”.

Test Range	EUT Conf.	Emissions	Verdict
30 MHz to 1 GHz	TM1_DH5_Ch0 (Worst Conf.)	< Limit	Pass
1 GHz to 3 GHz	TM1_DH5_Ch0 (Worst Conf.)	< Limit	Pass
	TM1_DH5_Ch78 (Worst Conf.)	< Limit	Pass
3 GHz to 18 GHz	TM1_DH5_Ch0 (Worse Conf.)	< Limit	Pass
18 GHz to 26.5 GHz	TM1_DH5_Ch0 (Worst Conf.)	< Limit	Pass

2 Result Plot

Part 1: Testing Range of “9 kHz to 30MHz”

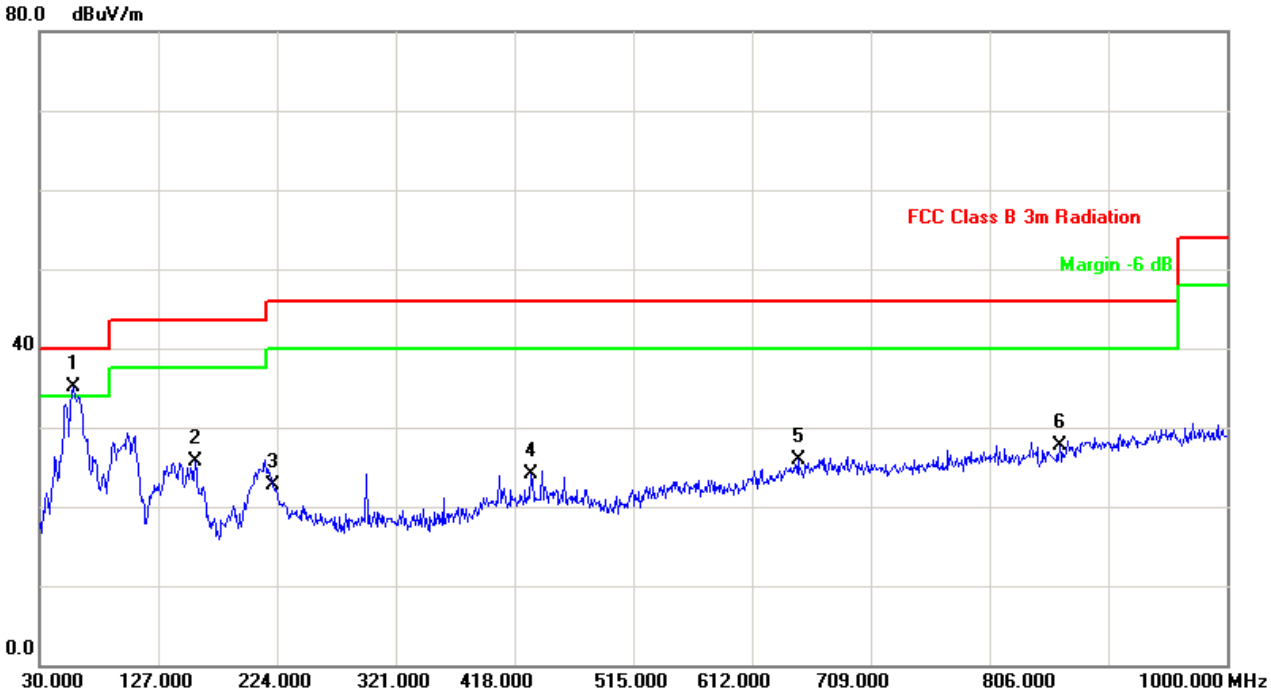
NOTE1: No peak found in the Test Range of “9 kHz to 30MHz”

Part 2: Testing Range of “30 MHz to 1 GHz”

Note 1: The test results and plot for testing range of “30 MHz to 1 GHz” showed as below is the WORST case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel.

Note 2: The emissions in this range are mainly from the Platform Device (Notepad PC and its ancillary components).

Vertical



NO.KR.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector
1	57.1600	48.13	-13.03	35.10	40.00	-4.90	QP
2	157.0700	37.73	-12.06	25.67	43.50	-17.83	QP
3	221.0900	36.11	-13.32	22.79	46.00	-23.21	QP
4	431.5800	30.48	-6.40	24.08	46.00	-21.92	QP
5	649.8300	27.60	-1.65	25.95	46.00	-20.05	QP
6	863.2300	27.13	0.53	27.66	46.00	-18.34	QP

Part 3: Testing Range of “18 GHz to 26.5 GHz”

NOTE1: No peak found in the Test Range of “18 GHz to 26.5 GHz”

Part 4: Testing Range of "2.3GHz to 2.5GHz"

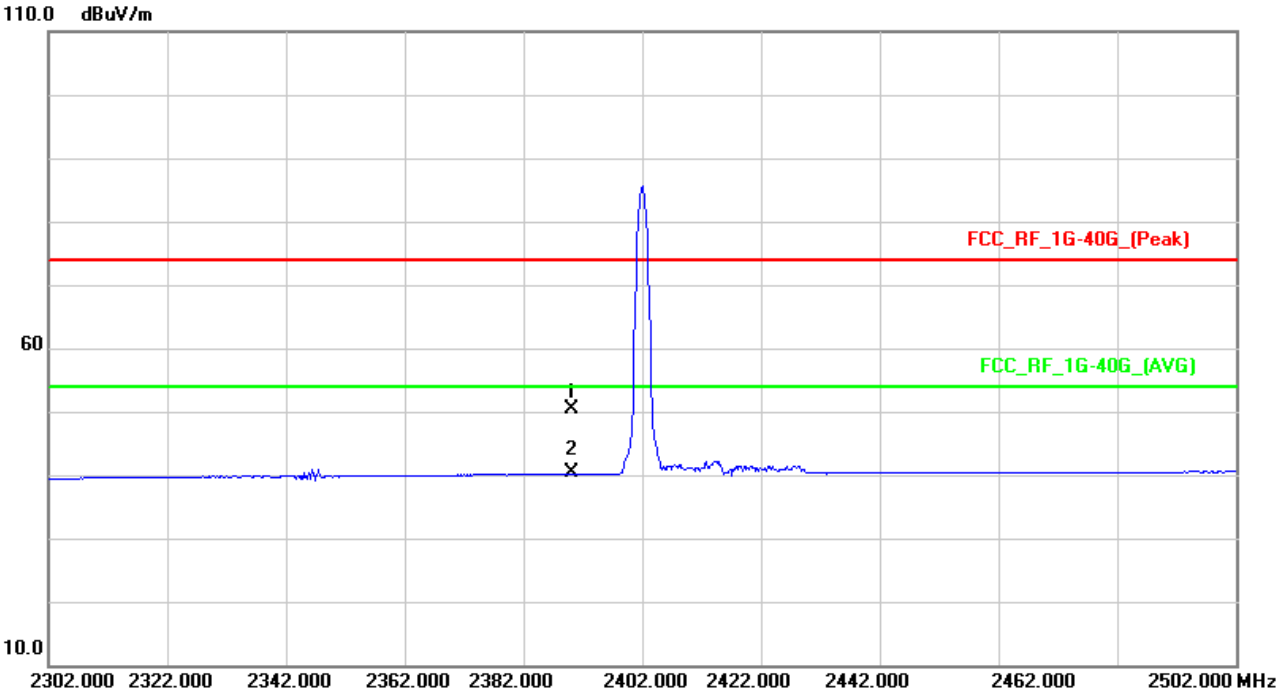
Note 1: The testing range of "2.3 GHz to 2.5 GHz" is for checking radiated emissions located in restricted bands near the EUT operating bands.

Note 2: Two limits are required in the testing range above 1 GHz, that is Peak limit (74 dBμV/m) and Average Limit (54 dBμV/m).

Note 3: The peak spike exceeds the limit line is EUT's operating frequency.

Channel 0

Vertical

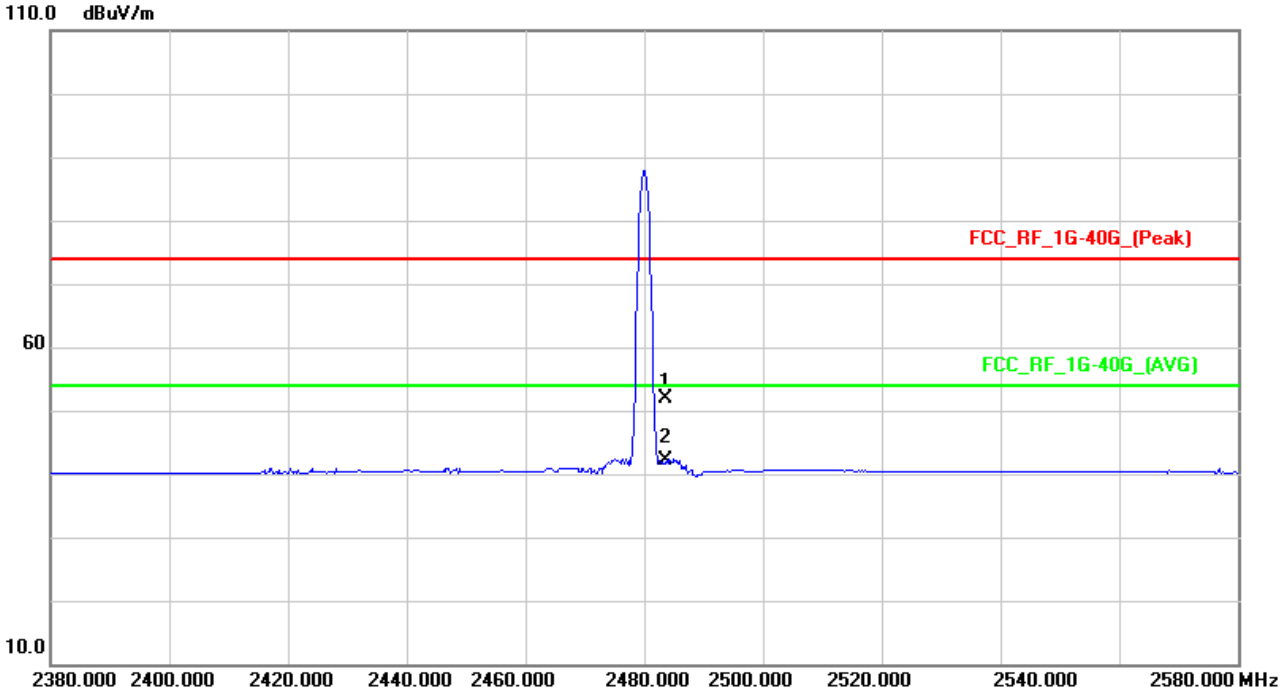


Note: The peak exceeds the limit line is carrier frequency.

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Note
2390.000	V	14.57	35.88	50.45	74.00	-23.55	peak
2390.000	V	4.38	35.88	40.26	54.00	-13.74	AVG

Channel 78

Horizontal



Note: The peak exceeds the limit line is carrier frequency.

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Note
2483.500	H	15.52	36.39	51.91	74.00	-22.09	peak
2483.500	H	5.64	36.39	42.03	54.00	-11.97	AVG

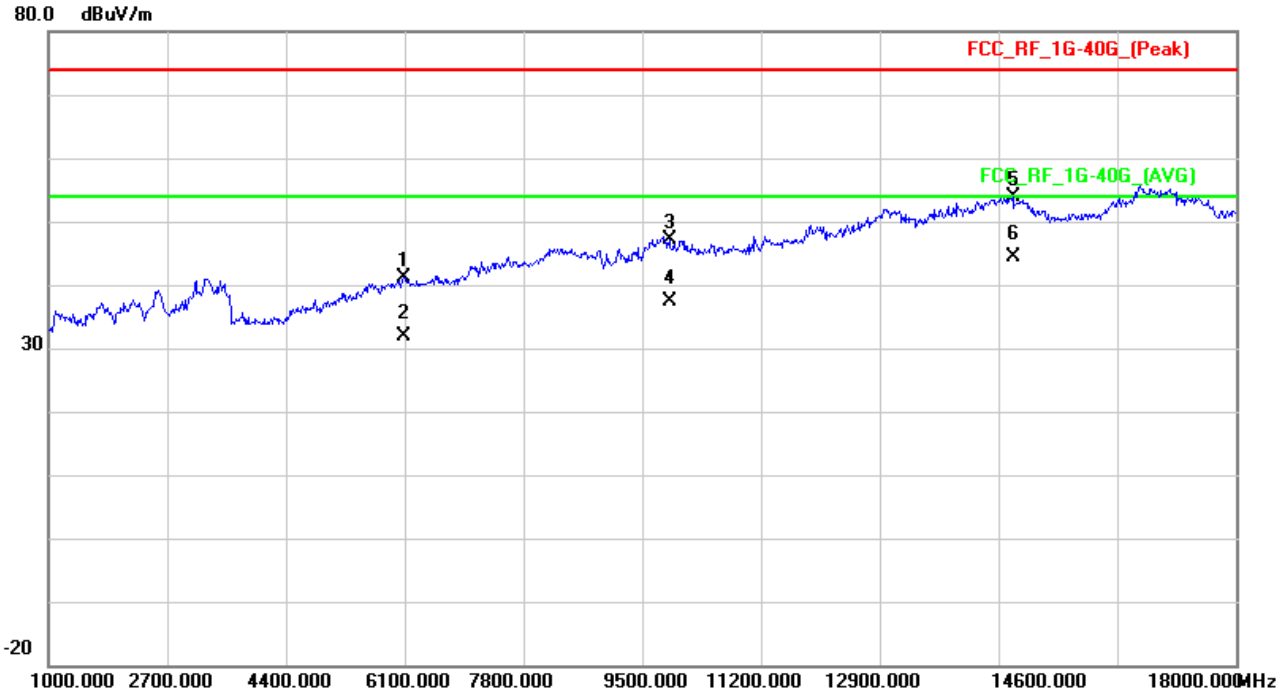
Part 5: Testing Range of "1 GHz to 18 GHz"

Note 1: The test results and plot for testing range of "1 GHz to 18 GHz" showed as below is the WORST case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel.

Note 2: The testing range of "1 GHz to 18 GHz" is for checking radiated emissions located in restricted bands far away from the EUT operating bands.

Note 3: Two limits are required in the testing range above 1 GHz, that is Peak limit (74 dBμV/m) and Average Limit (54 dBμV/m).

Vertical



NO.KR.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector
1	6095.750	31.14	9.90	41.04	74.00	-32.96	peak
2	6095.750	21.86	9.90	31.76	54.00	-22.24	AVG
3	9888.875	30.13	17.02	47.15	74.00	-26.85	peak
4	9888.875	20.31	17.02	37.33	54.00	-16.67	AVG
5	14808.25	29.80	24.16	53.96	74.00	-20.04	peak
6	14808.25	20.34	24.16	44.50	54.00	-9.50	AVG

Appendix I: AC Power Line Conducted Emissions

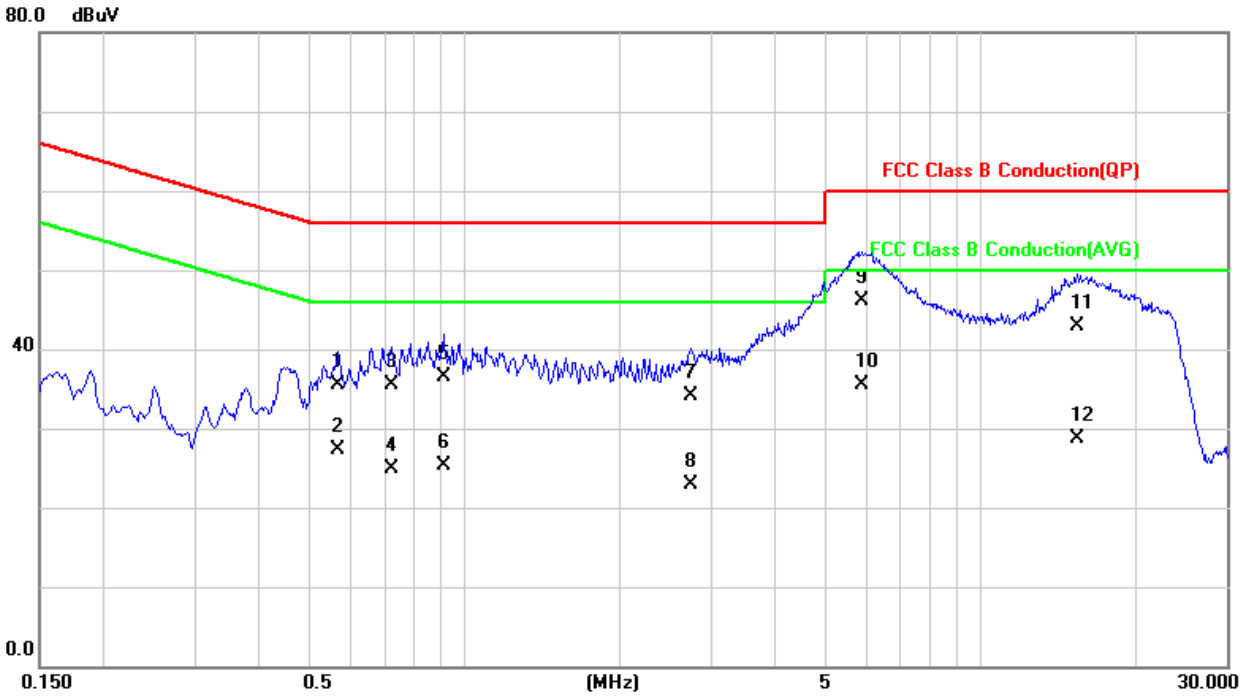
3 Result Table

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

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

4 Result Plot

4.1 TM1_DH5_Ch39



NO.KR.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector
1	0.5685	25.80	9.67	35.47	56.00	-20.53	QP
2	0.5685	17.70	9.67	27.37	46.00	-18.63	AVG
3	0.7215	25.90	9.70	35.60	56.00	-20.40	QP
4	0.7215	15.30	9.70	25.00	46.00	-21.00	AVG
5	0.9127	26.80	9.75	36.55	56.00	-19.45	QP
6	0.9127	15.60	9.75	25.35	46.00	-20.65	AVG
7	2.7510	24.30	9.83	34.13	56.00	-21.87	QP
8	2.7510	13.10	9.83	22.93	46.00	-23.07	AVG
9	5.9078	35.90	10.12	46.02	60.00	-13.98	QP
10	5.9078	25.40	10.12	35.52	50.00	-14.48	AVG
11	15.3915	32.70	10.27	42.97	60.00	-17.03	QP
12	15.3915	18.40	10.27	28.67	50.00	-21.33	AVG

END