



Appendix A: 20dB Emission Bandwidth (EBW)

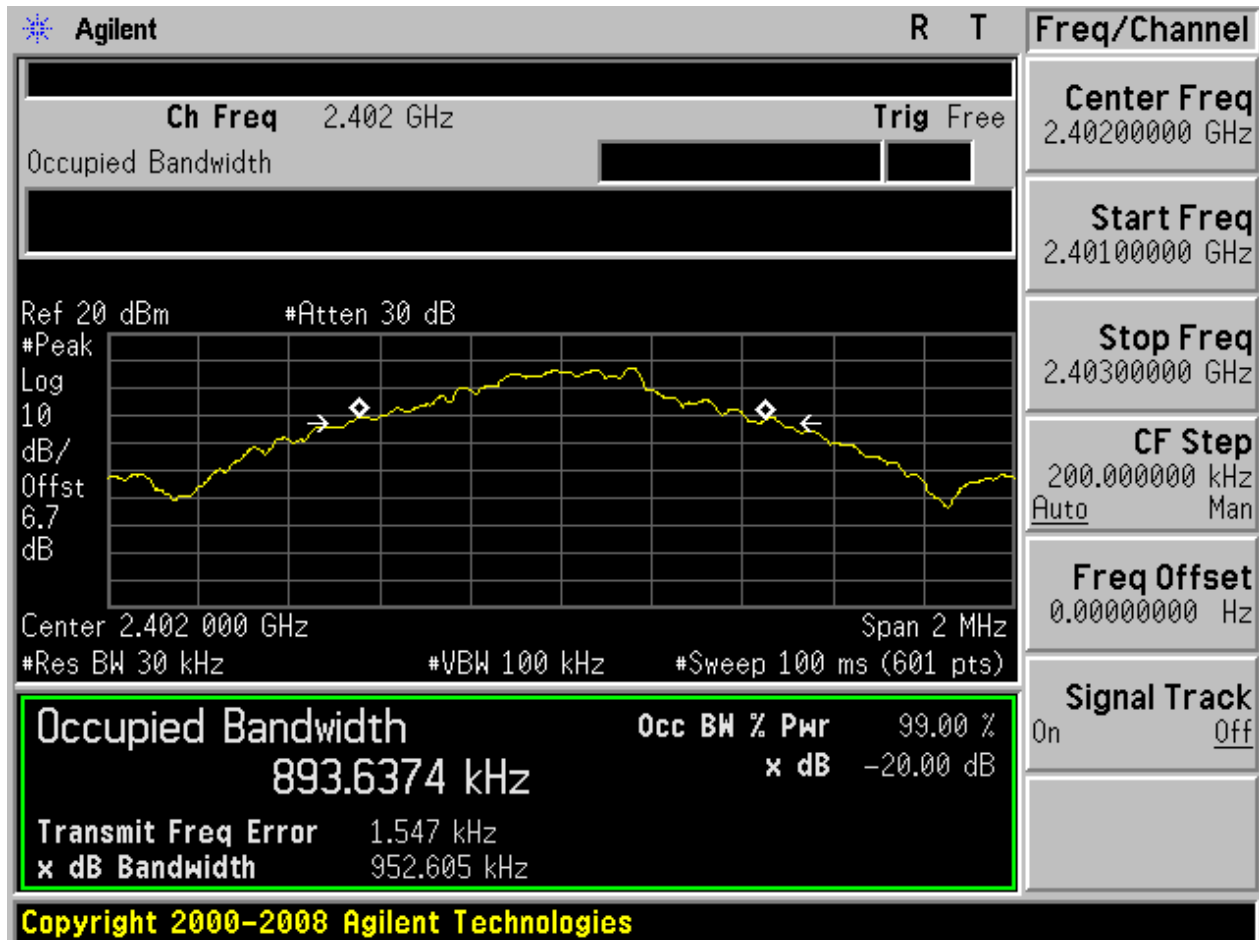


1 Result Table

EUT Conf.	EBW [MHz]	Verdict
TM1_DH5_Ch0	0.953	Pass
TM1_DH5_Ch39	0.949	Pass
TM1_DH5_Ch78	0.948	Pass
TM2_2DH5_Ch0	1.287	Pass
TM2_2DH5_Ch39	1.286	Pass
TM2_2DH5_Ch78	1.285	Pass
TM3_3DH5_Ch0	1.276	Pass
TM3_3DH5_Ch39	1.275	Pass
TM3_3DH5_Ch78	1.276	Pass

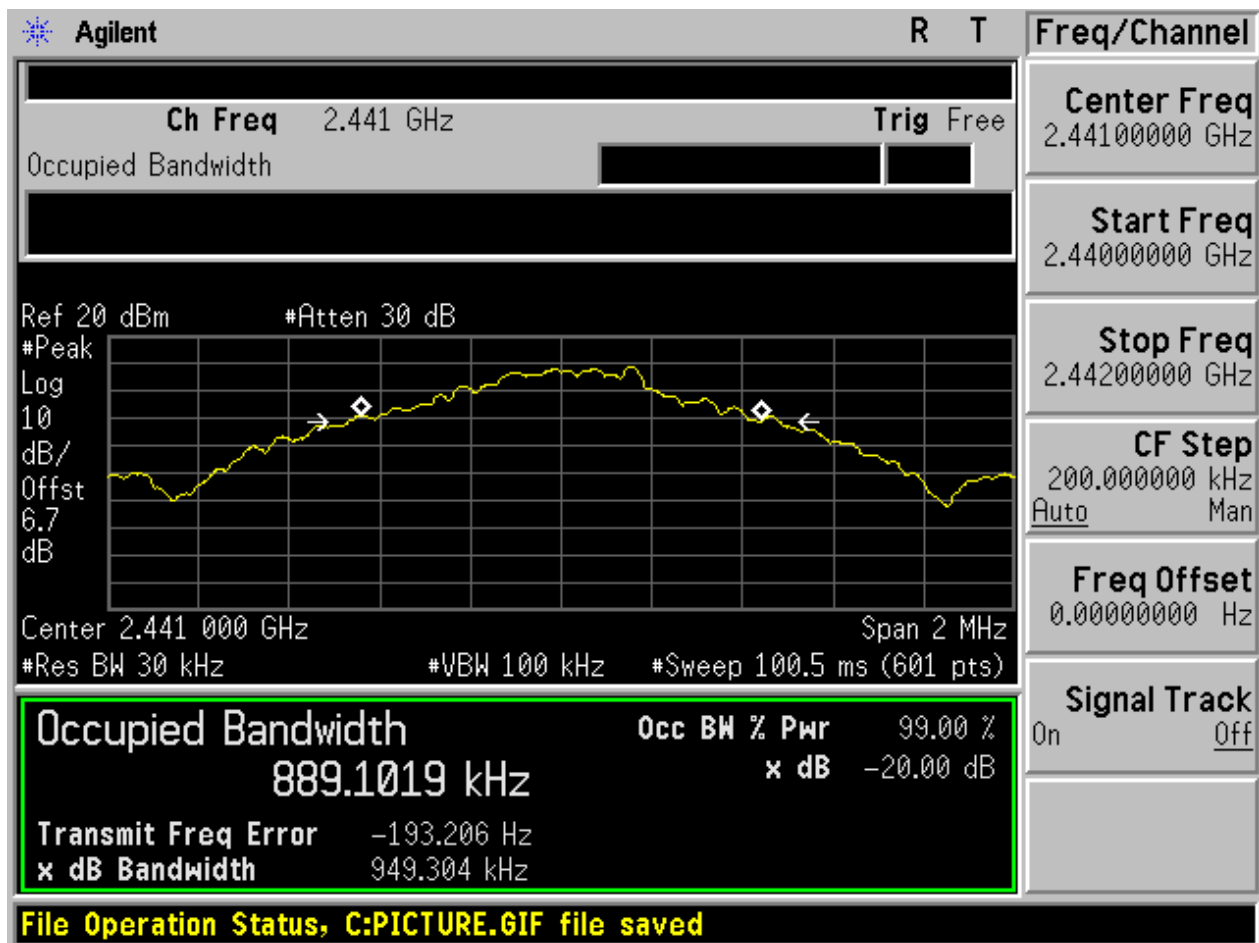
2 Test Plot

2.1 TM1_DH5_Ch0



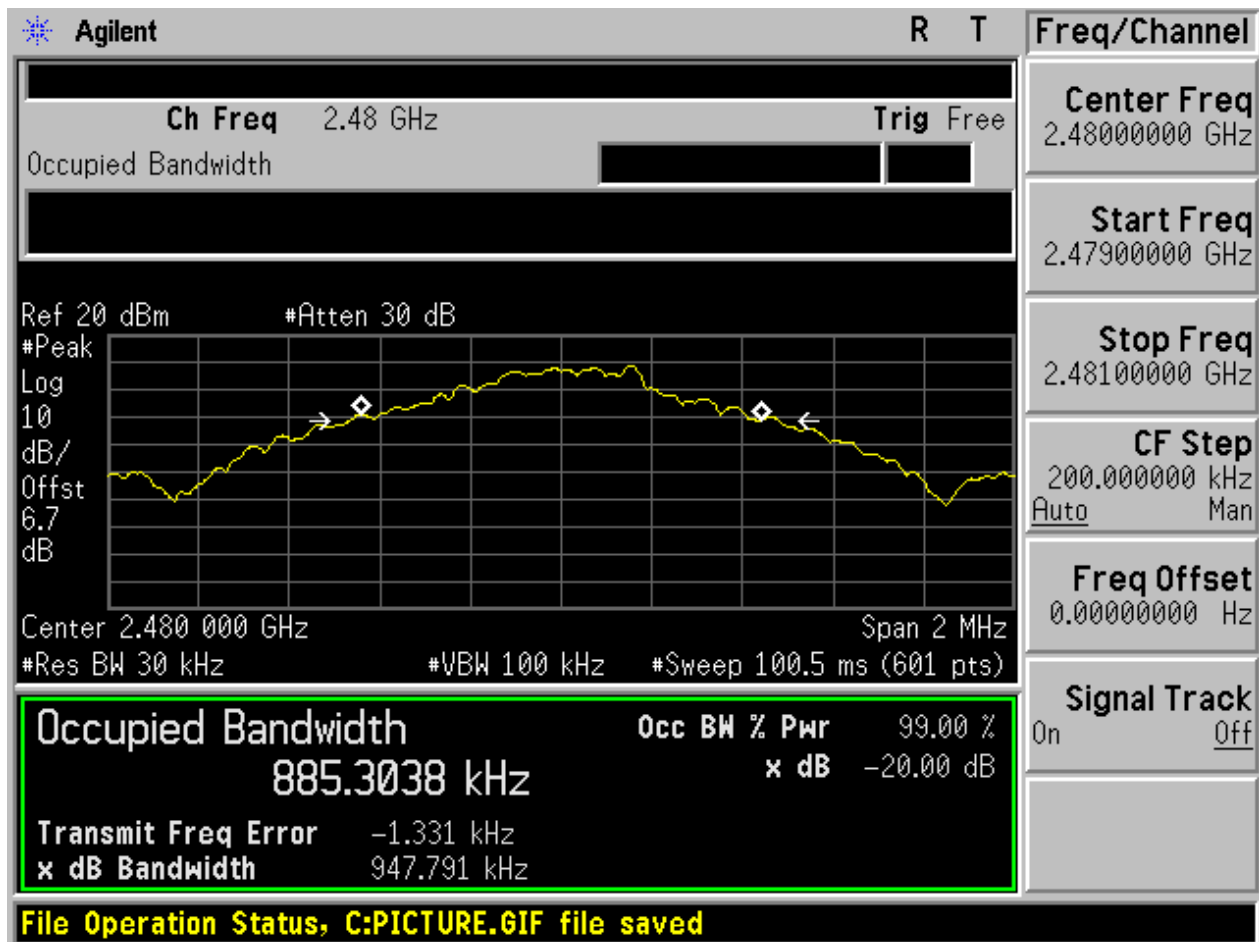


2.2 TM1_DH5_Ch39



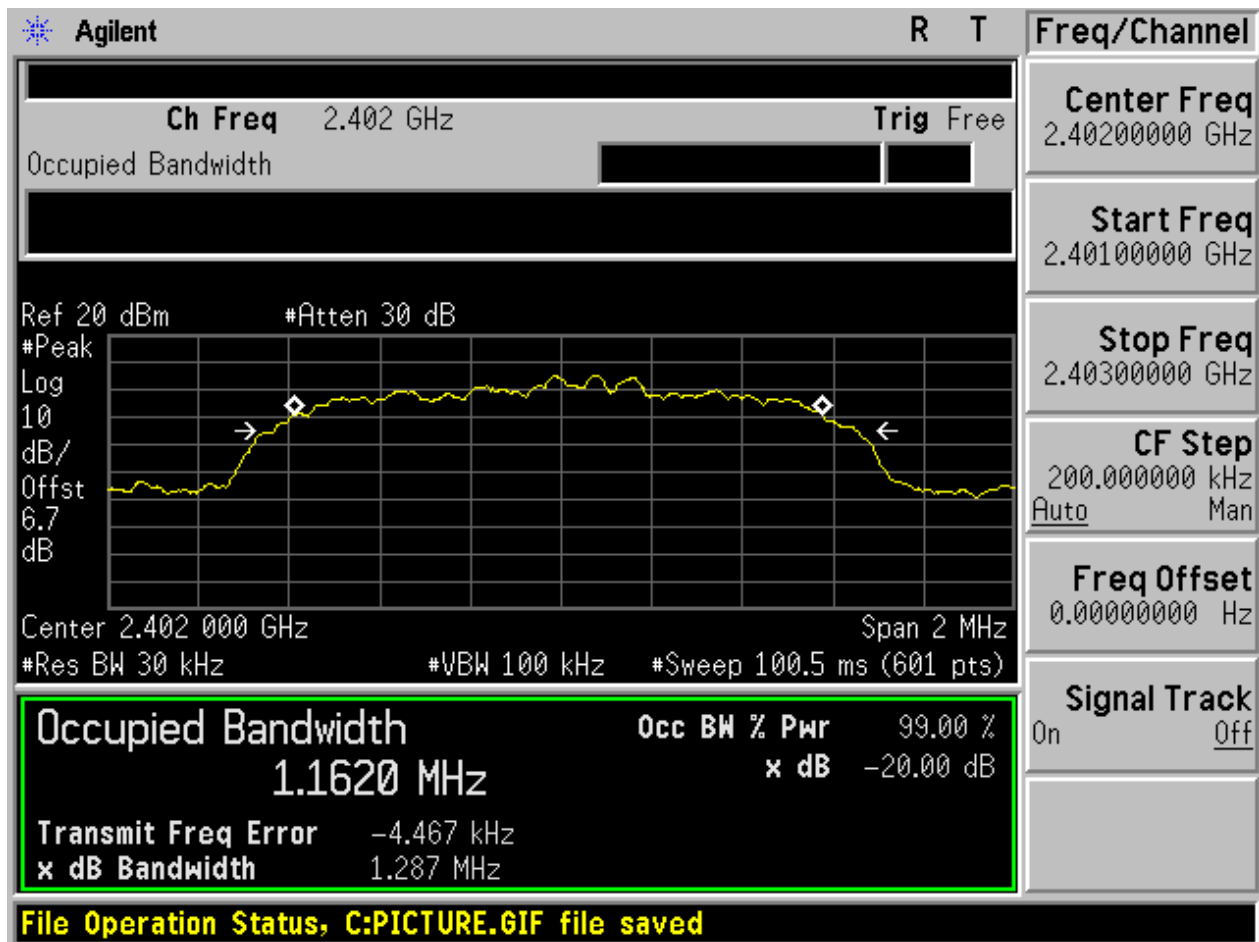


2.3 TM1_DH5_Ch78

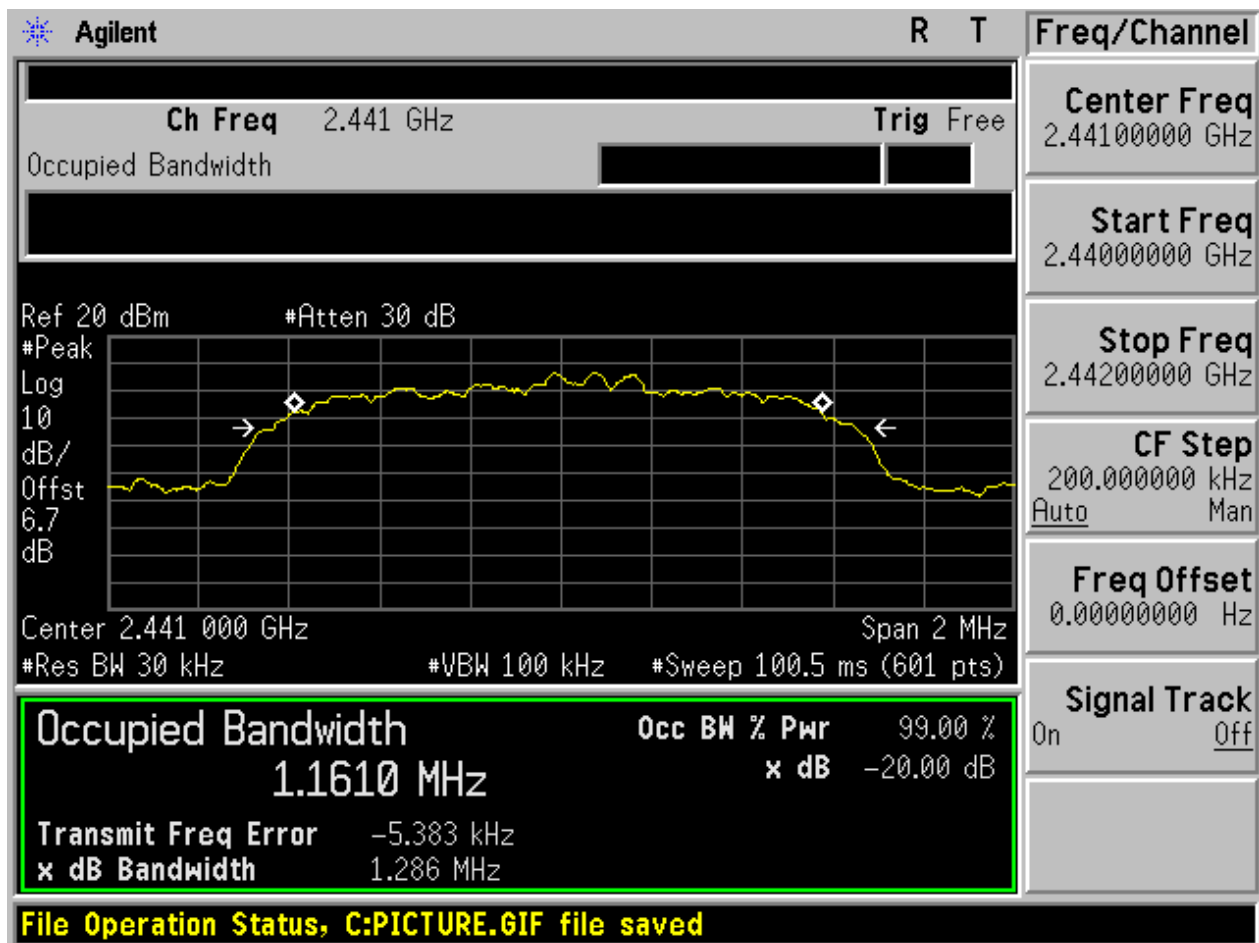




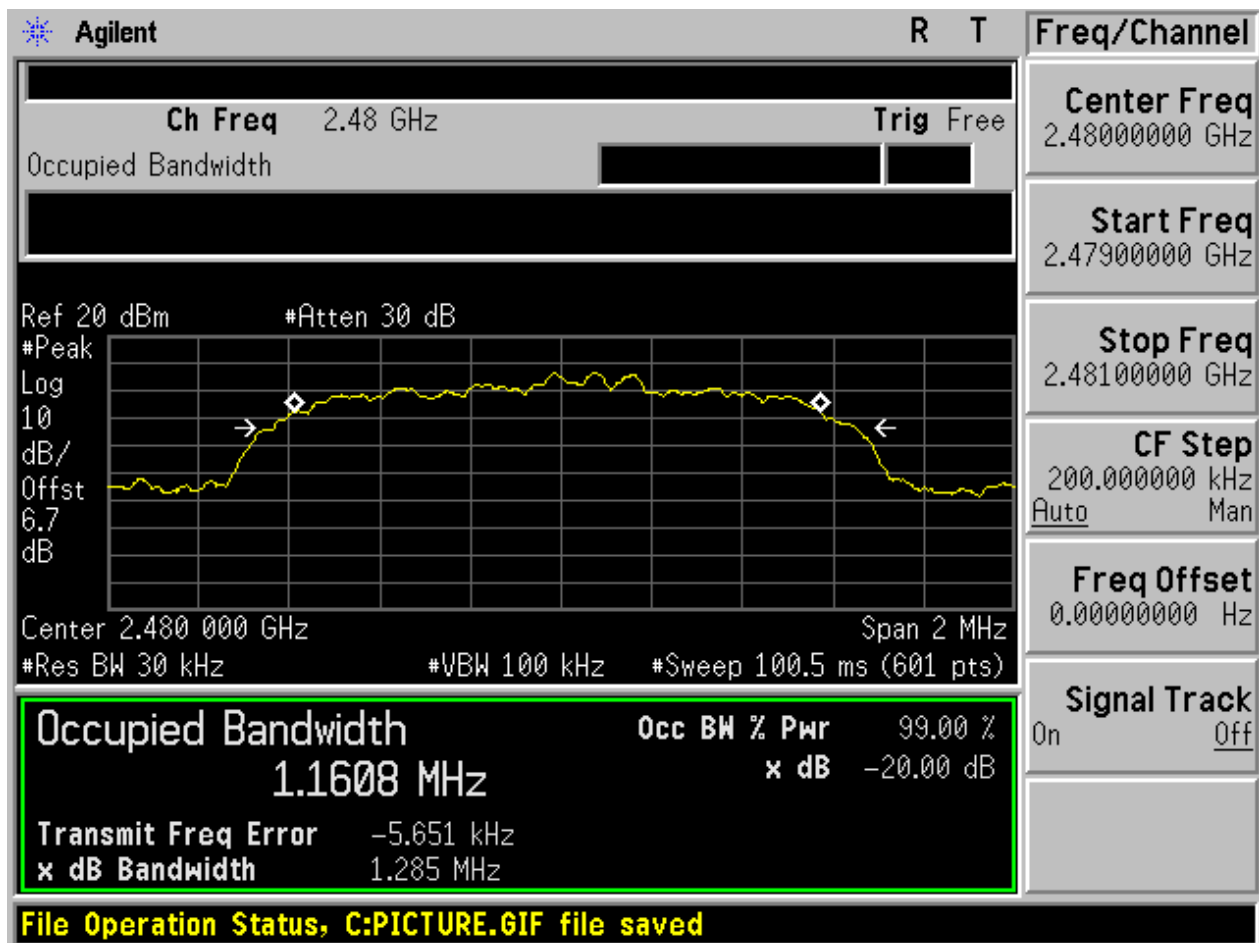
2.4 TM2_2DH5_Ch0



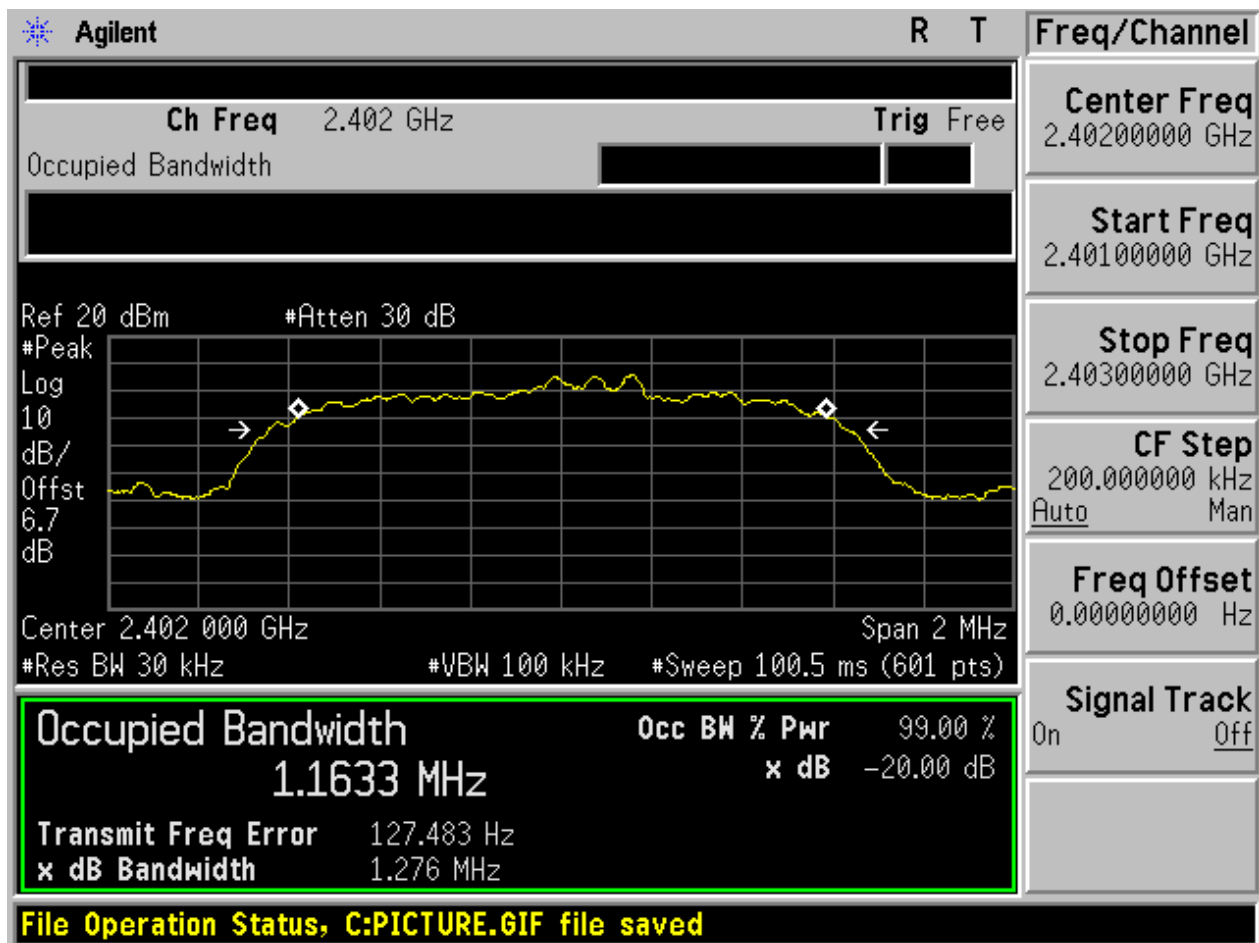
2.5 TM2_2DH5_Ch39



2.6 TM2_2DH5_Ch78

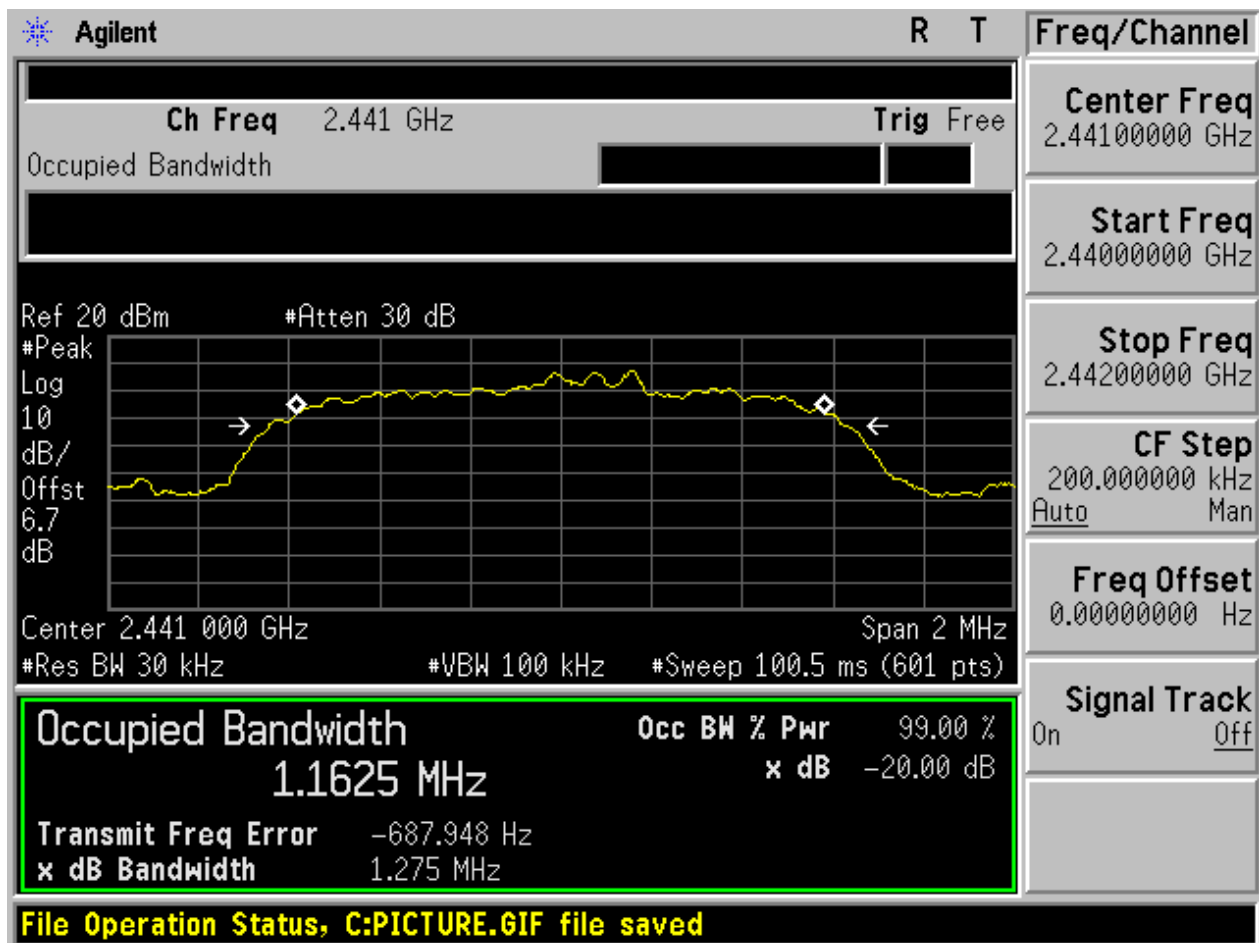


2.7 TM3_3DH5_Ch0



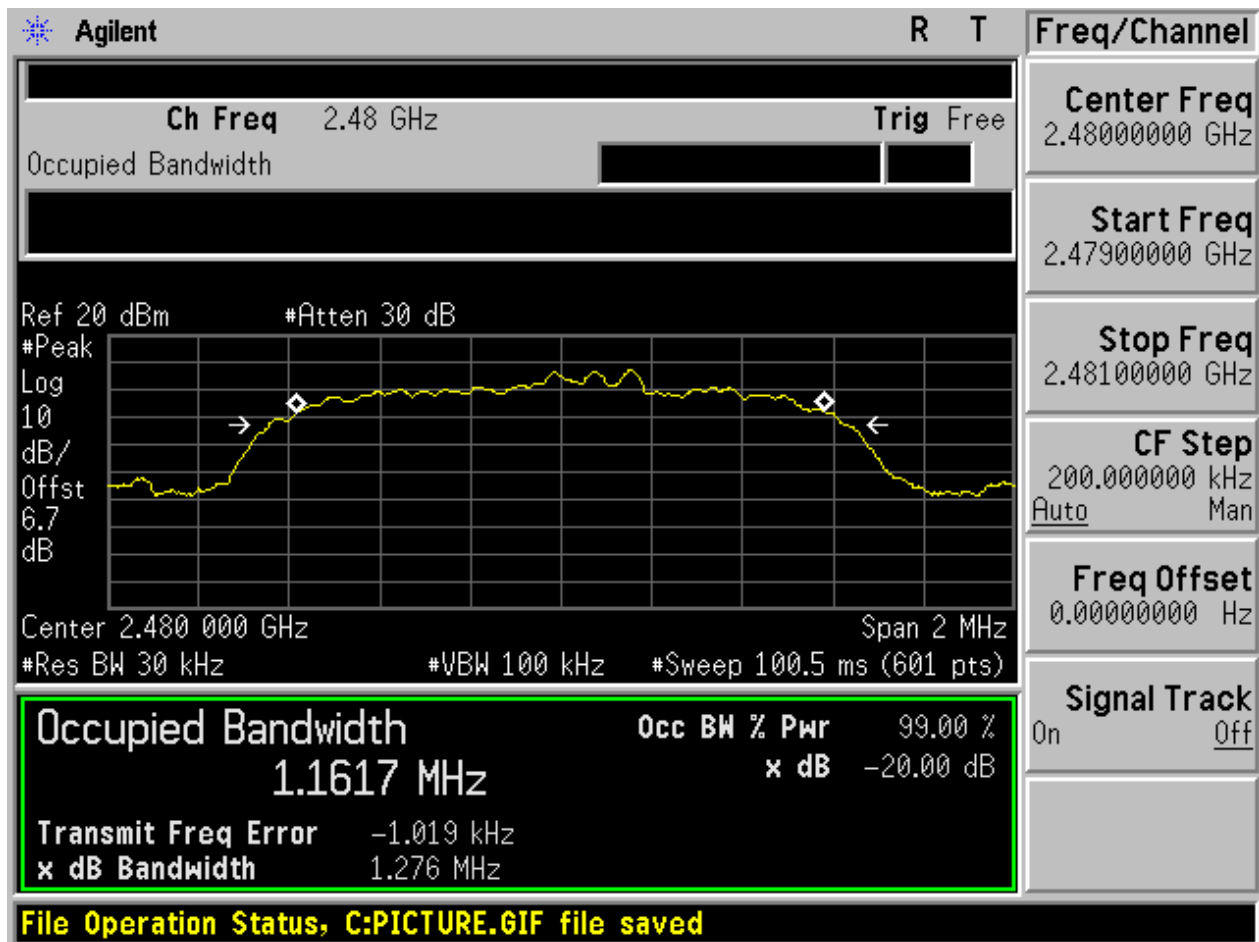


2.8 TM3_3DH5_Ch39





2.9 TM3_3DH5_Ch78





Appendix B: Carrier Frequency Separation

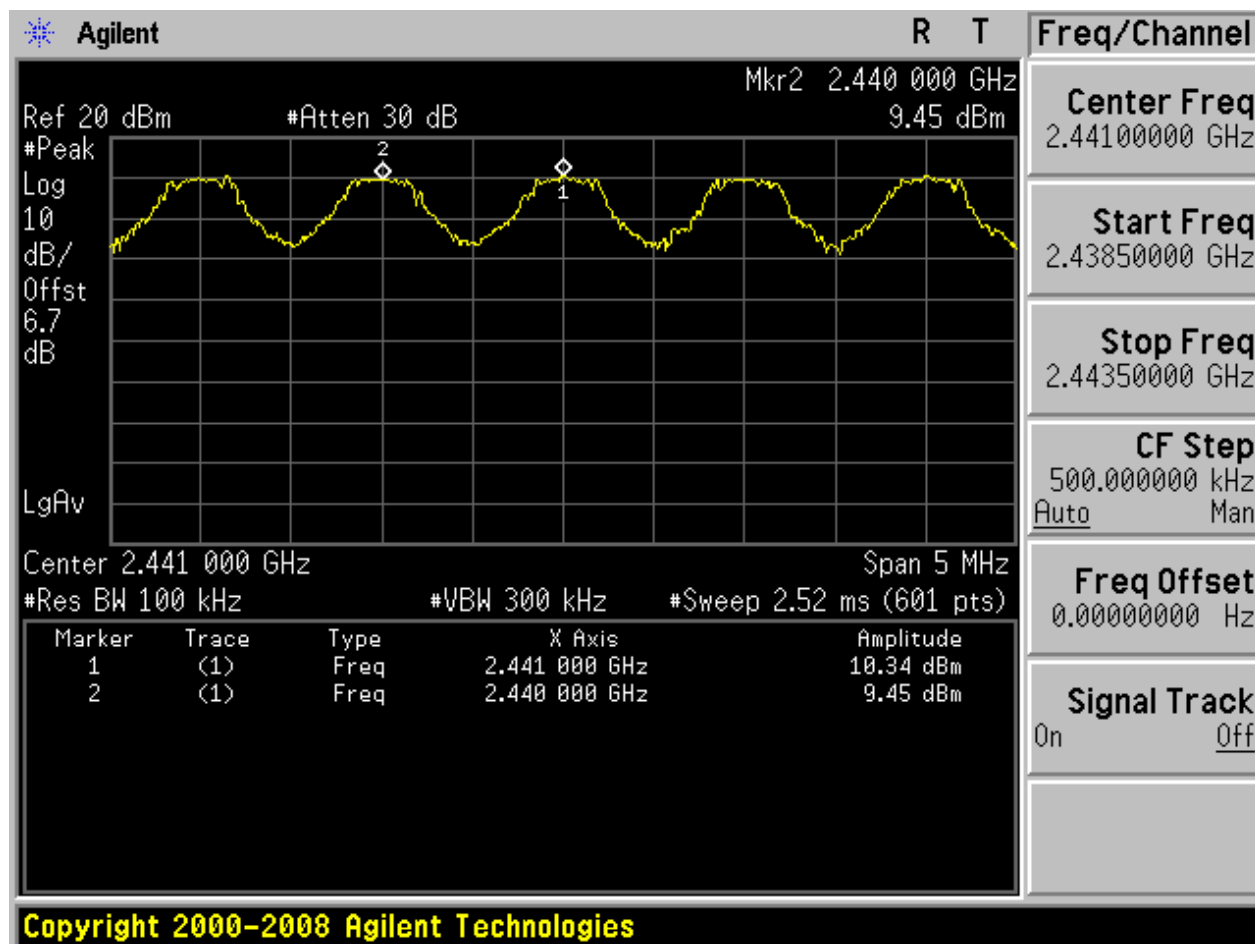


1 Result Table

EUT Conf.	Carrier Frequency Separation [MHz]	Verdict
TM1_DH5_Hop	1.000	Pass
TM2_2DH5_Hop	1.150	Pass
TM3_3DH5_Hop	1.150	Pass

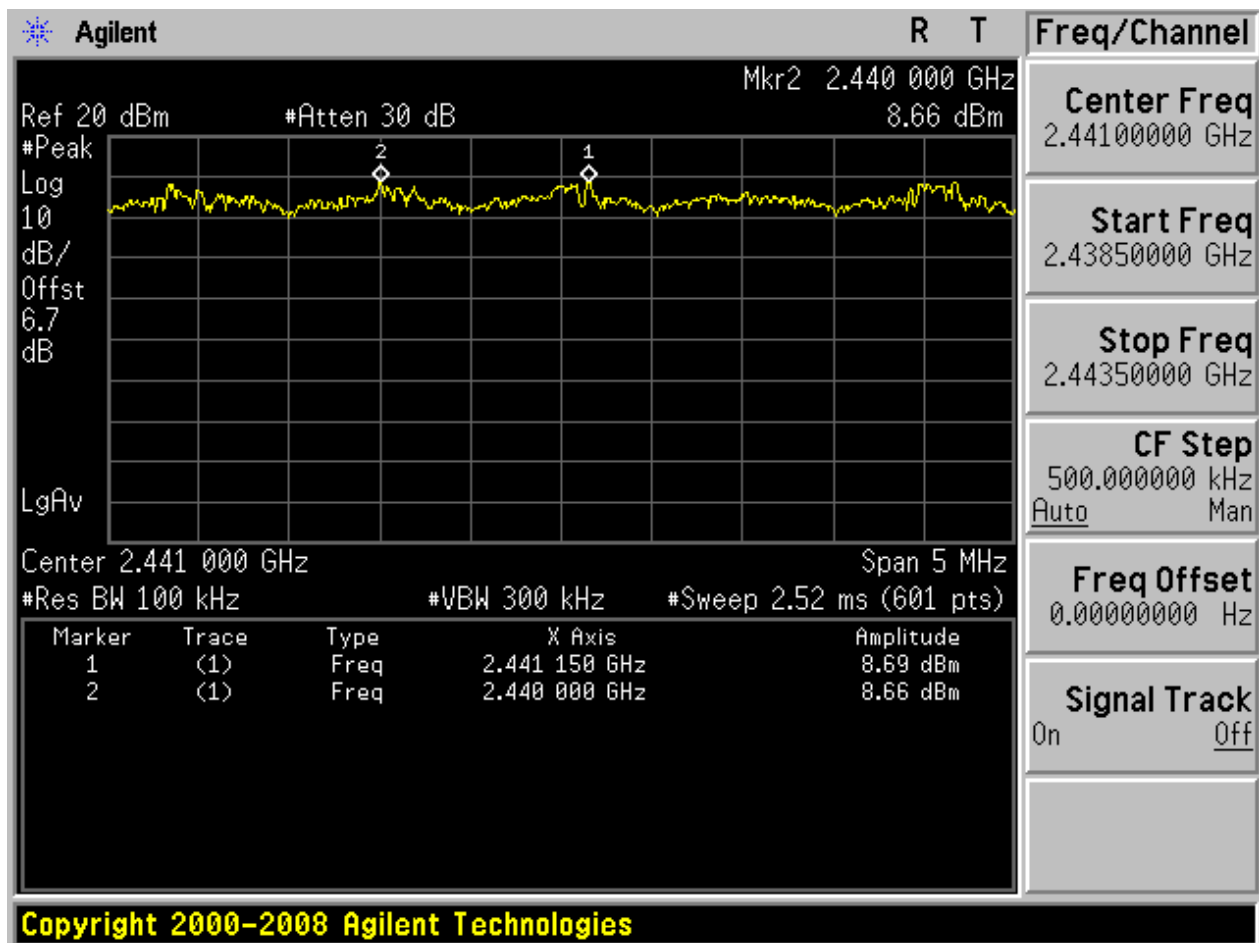
2 Test Plot

2.1 TM1_DH5_Hop

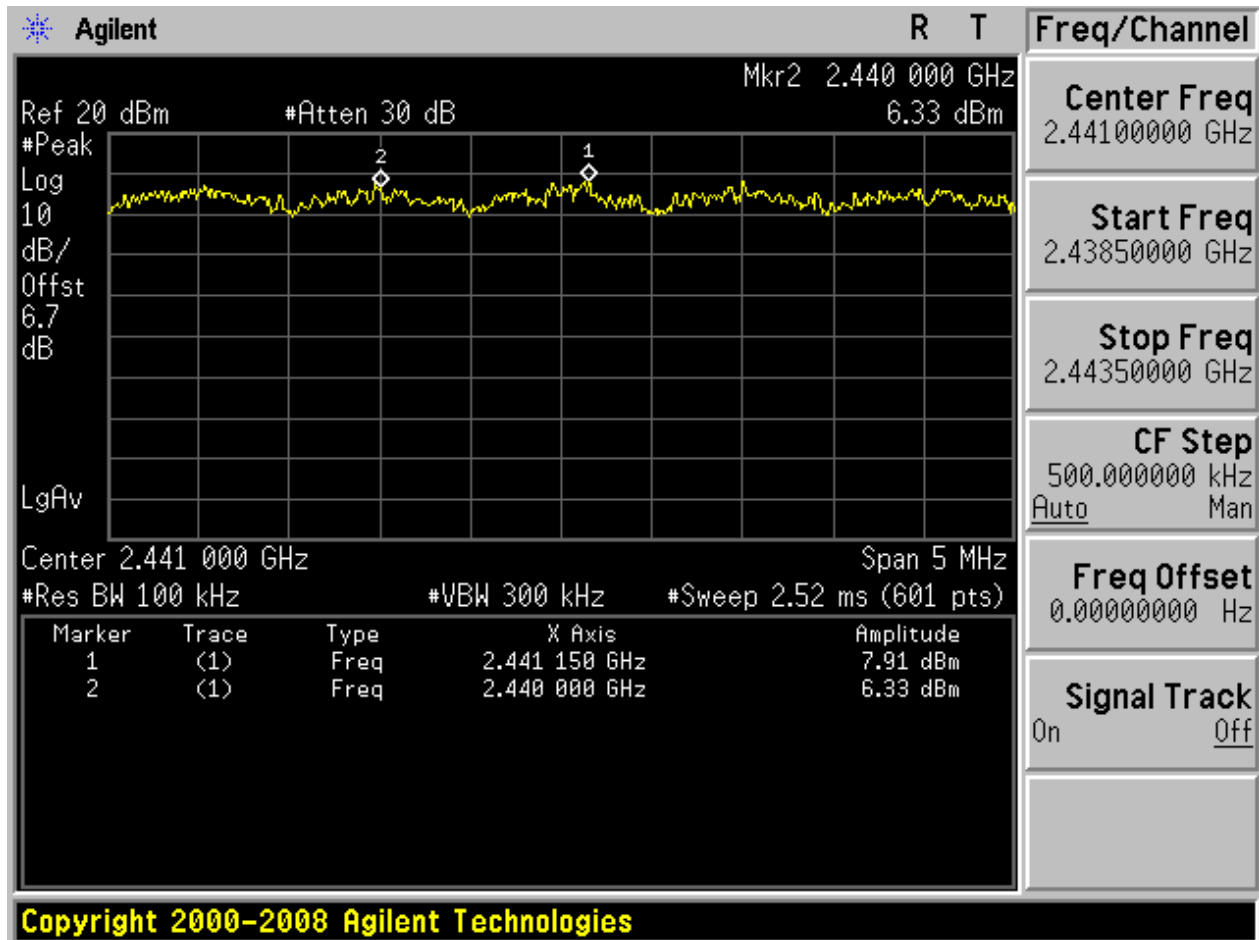




2.2 TM2_2DH5_Hop



2.3 TM3_3DH5_Hop





Appendix C: Number of Hopping Channel

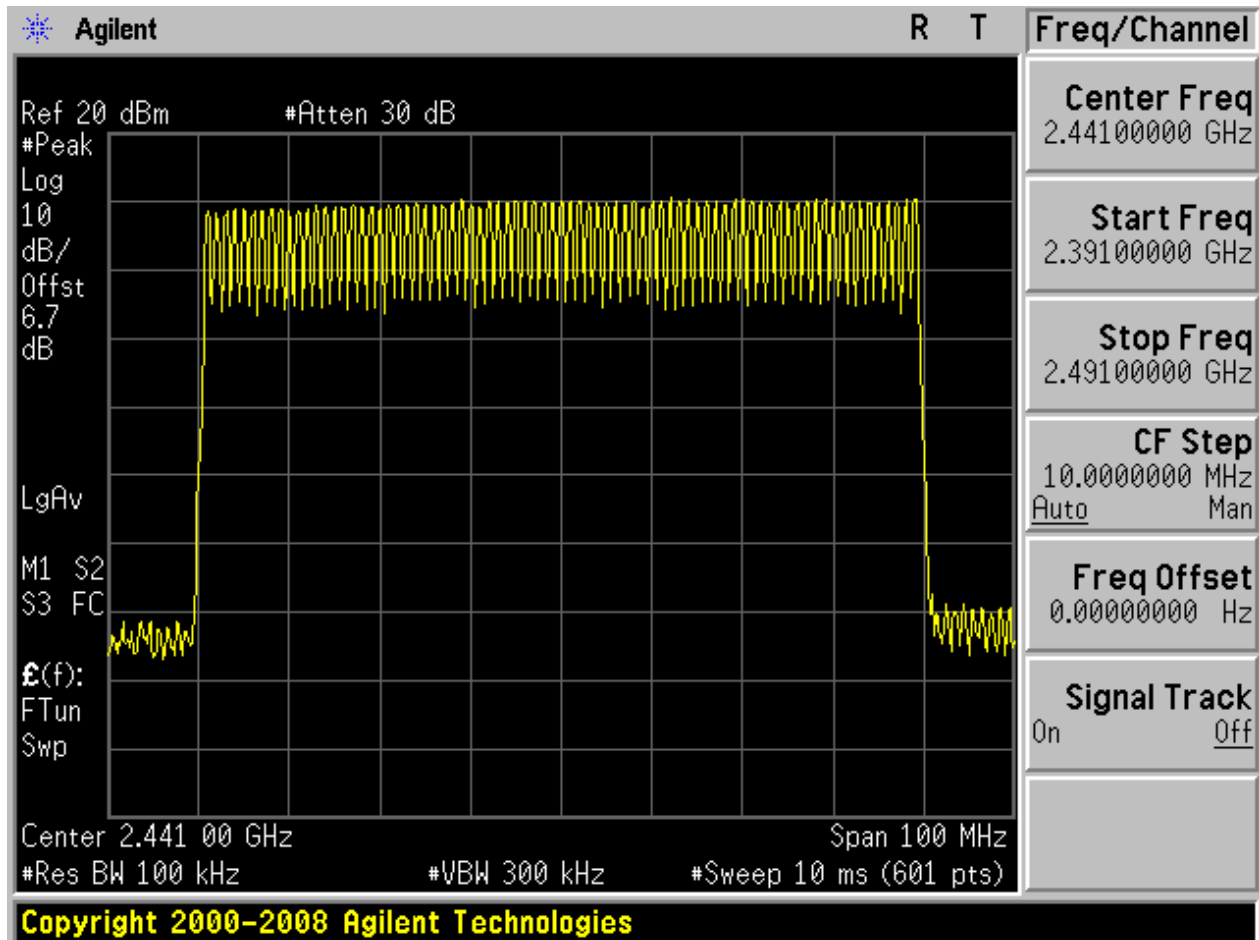


1 Result Table

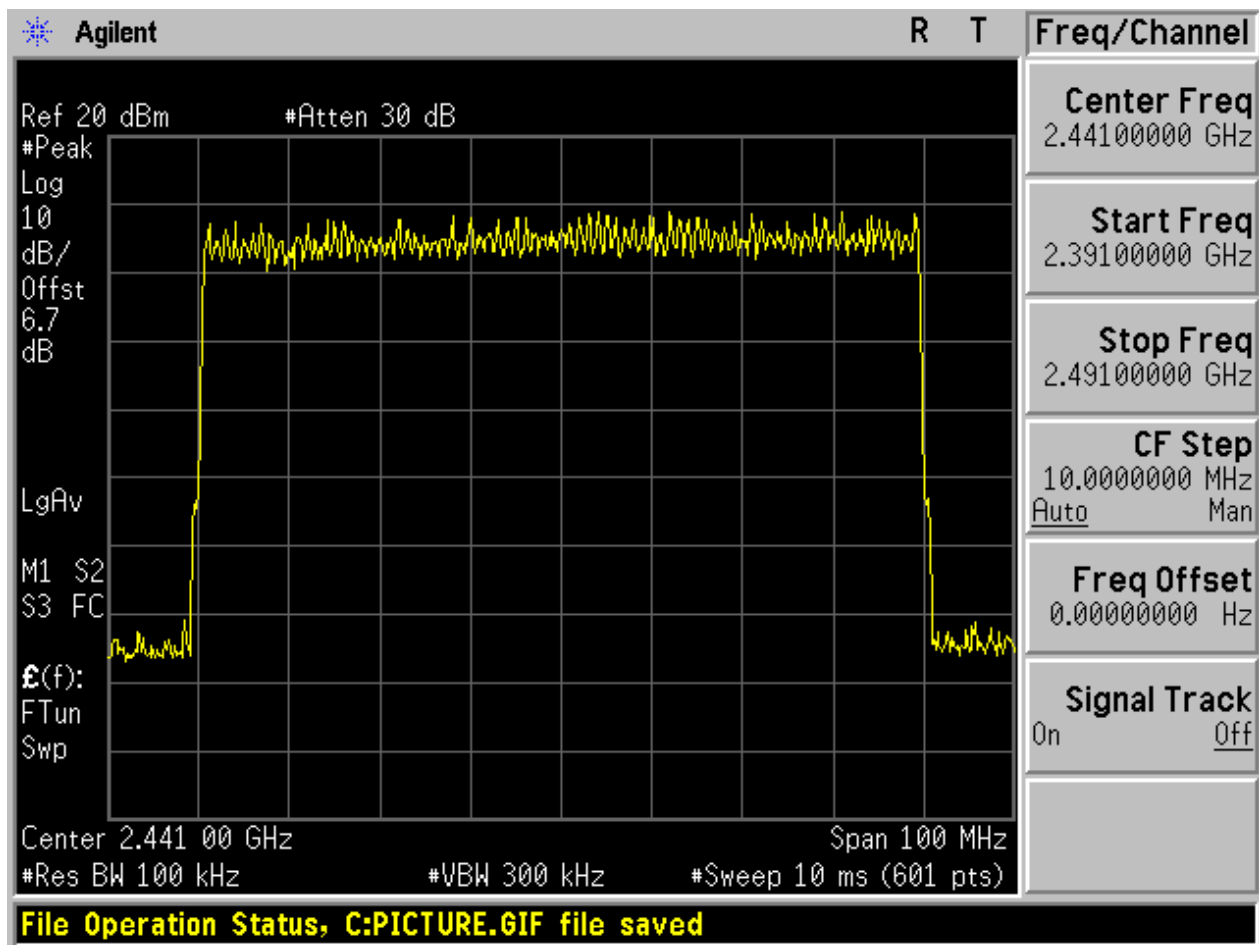
EUT Conf.	Number of Hopping Channel	Verdict
TM1_DH5_Hop	79	Pass
TM2_2DH5_Hop	79	Pass
TM3_3DH5_Hop	79	Pass

2 Test Plot

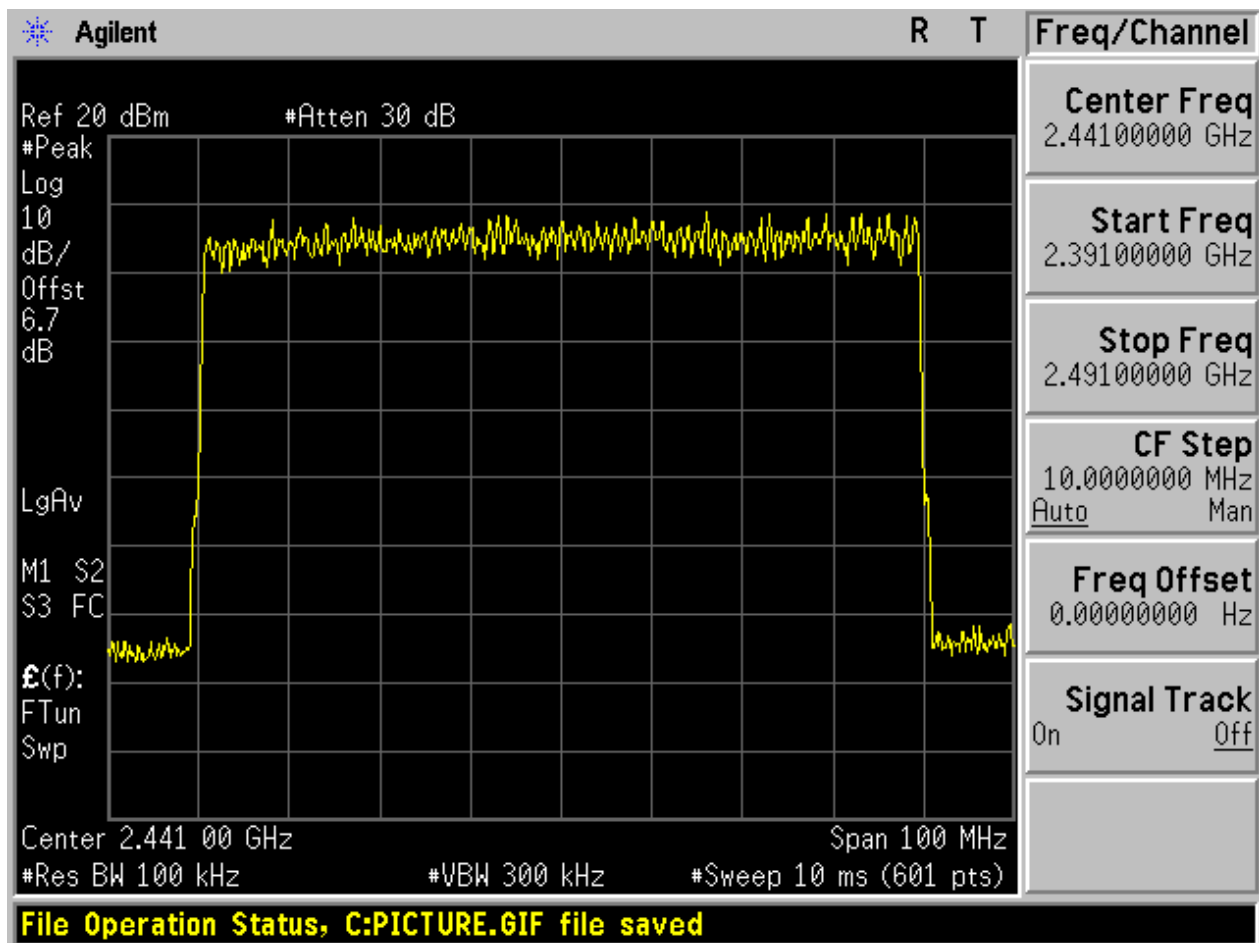
2.1 TM1_DH5_Hop



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:

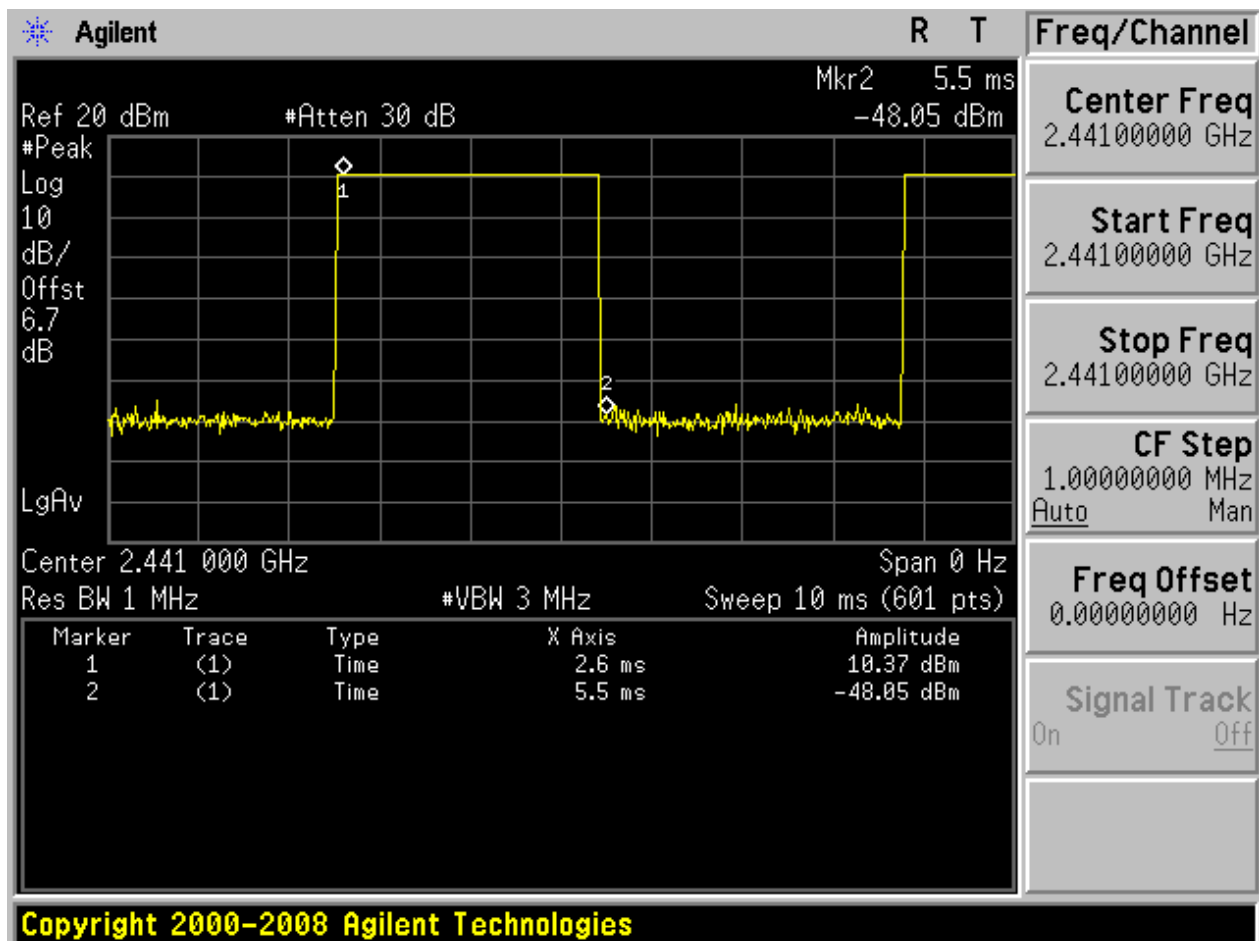
- The duration for dwell time calculation: $0.4 \text{ [s]} * \text{hopping number} = 0.4 \text{ [s]} * 79 \text{ [ch]} = 31.6 \text{ [s*ch]}$;
- The burst width [ms/hop/ch], which is directly measured, refers to the duration on one channel hop.
- The hops per second for all channels: The selected EUT 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 $1600 / 6 = 266.67 \text{ [ch*hop/s]}$;
- The hops per second on one channel: $266.67 \text{ [ch*hop/s]} / 79 \text{ [ch]} = 3.38 \text{ [hop/s]}$;
- The total hops for all channels within the dwell time calculation duration: $3.38 \text{ [hop/s]} * 31.6 \text{ [s*ch]} = 106.67 \text{ [hop*ch]}$;
- The dwell time for all channels hopping: $106.67 \text{ [hop*ch]} * \text{Burst Width [ms/hop/ch]}$.

EUT Conf.	Burst Width [ms/hop/ch]	Total Hops [hop*ch]	Dwell Time [ms]	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

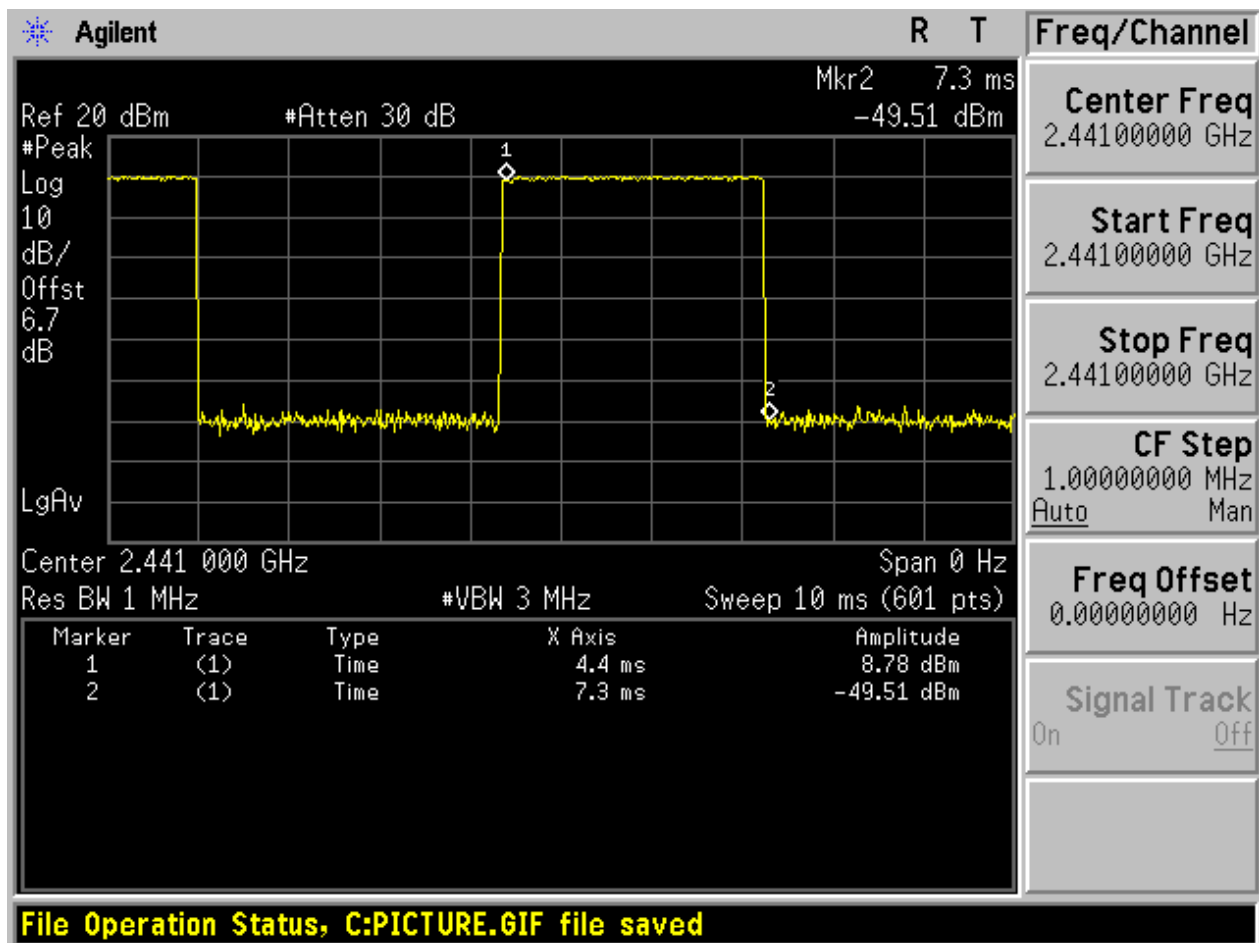
NOTE: The test plots are only for Burst Width measurements.

2.1 TM1_DH5_Ch39

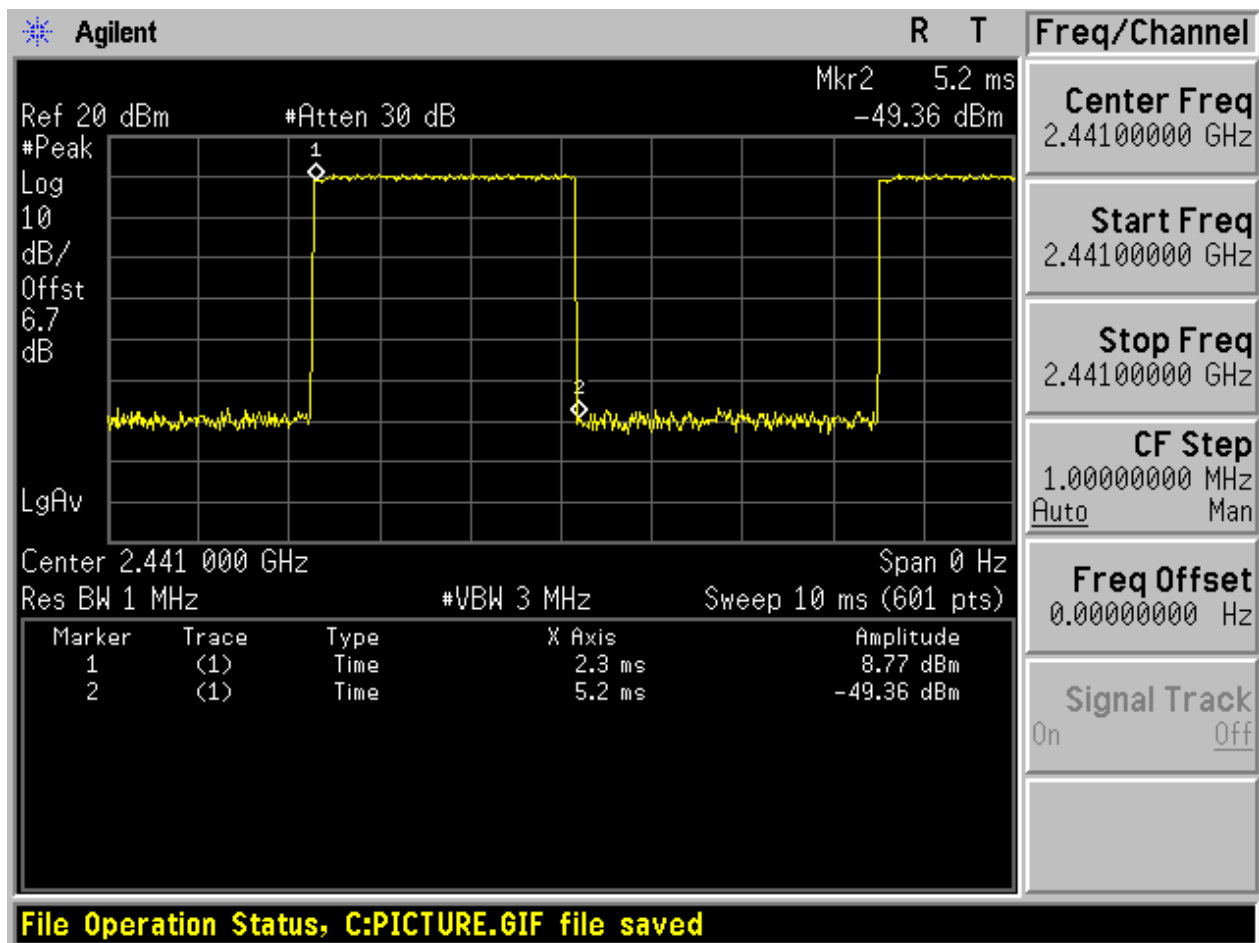




2.2 TM2_2DH5_Ch39



2.3 TM3_3DH5_Ch39





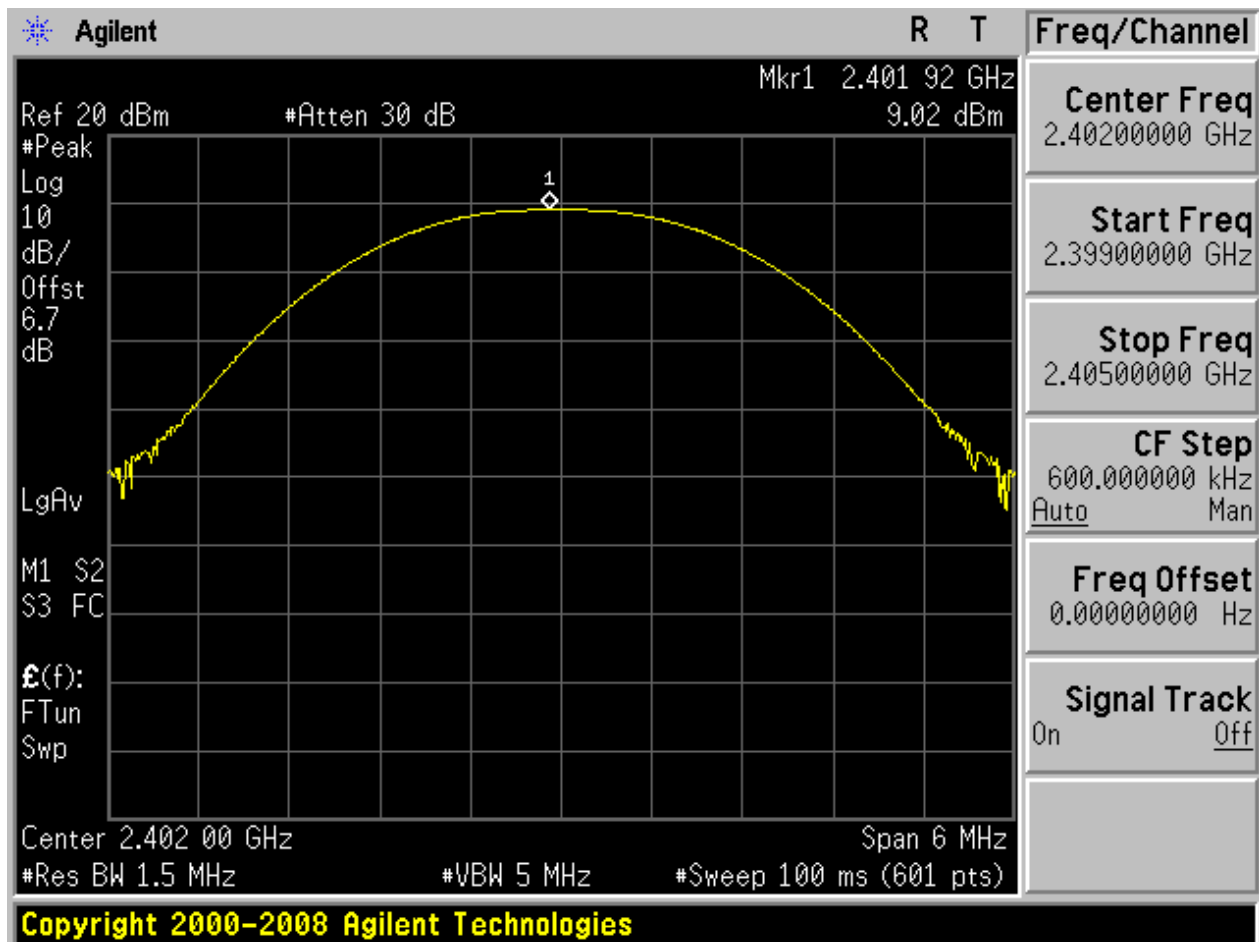
Appendix E: Maximum Peak Conducted Output Power

1 Result Table

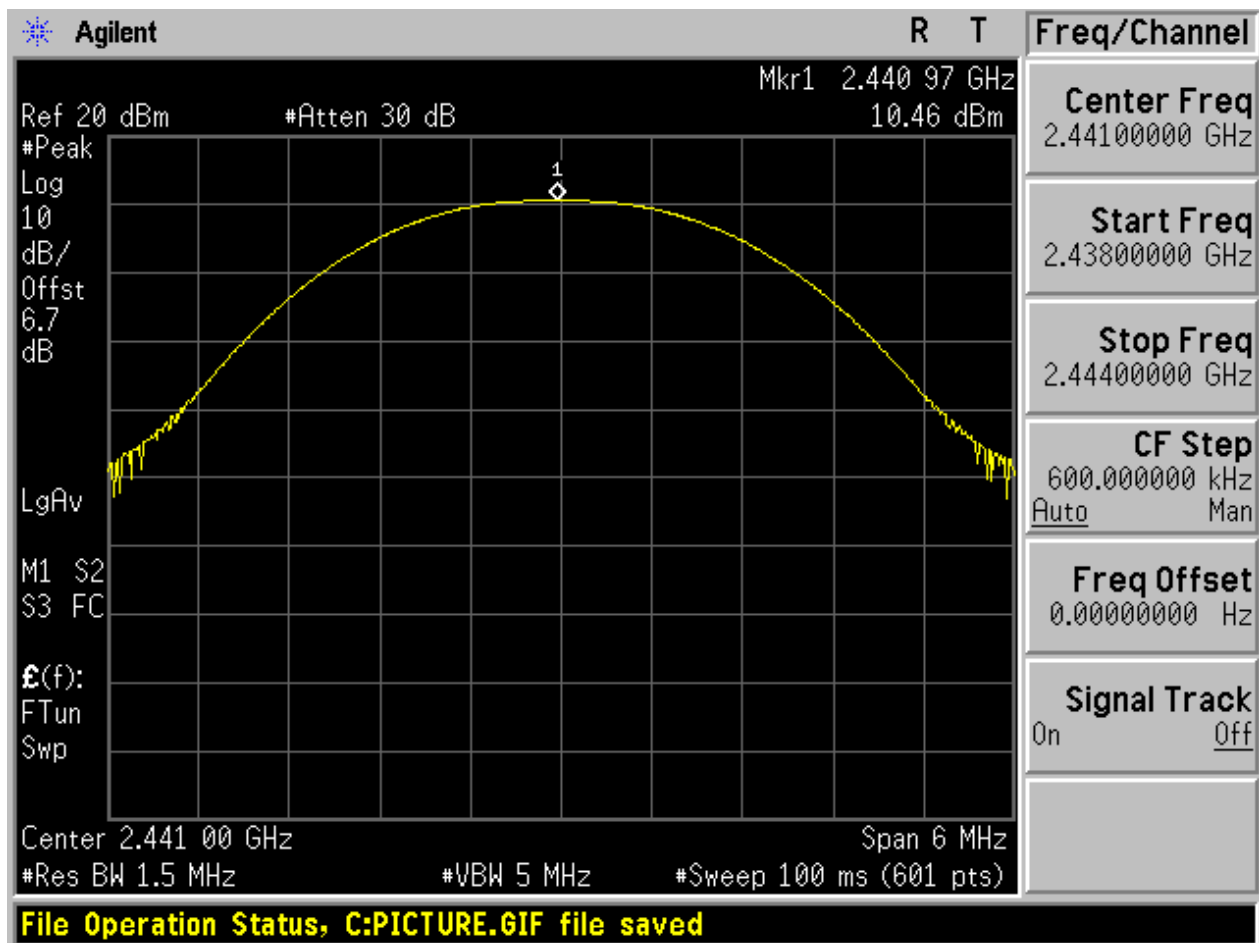
EUT Conf.	Max. Peak Power [dBm]	Verdict
TM1_DH5_Ch0	9.02	Pass
TM1_DH5_Ch39	10.46	Pass
TM1_DH5_Ch78	10.47	Pass
TM2_2DH5_Ch0	9.02	Pass
TM2_2DH5_Ch39	10.45	Pass
TM2_2DH5_Ch78	10.46	Pass
TM3_3DH5_Ch0	9.18	Pass
TM3_3DH5_Ch39	10.62	Pass
TM3_3DH5_Ch78	10.64	Pass

2 Test Plot

2.1 TM1_DH5_Ch0

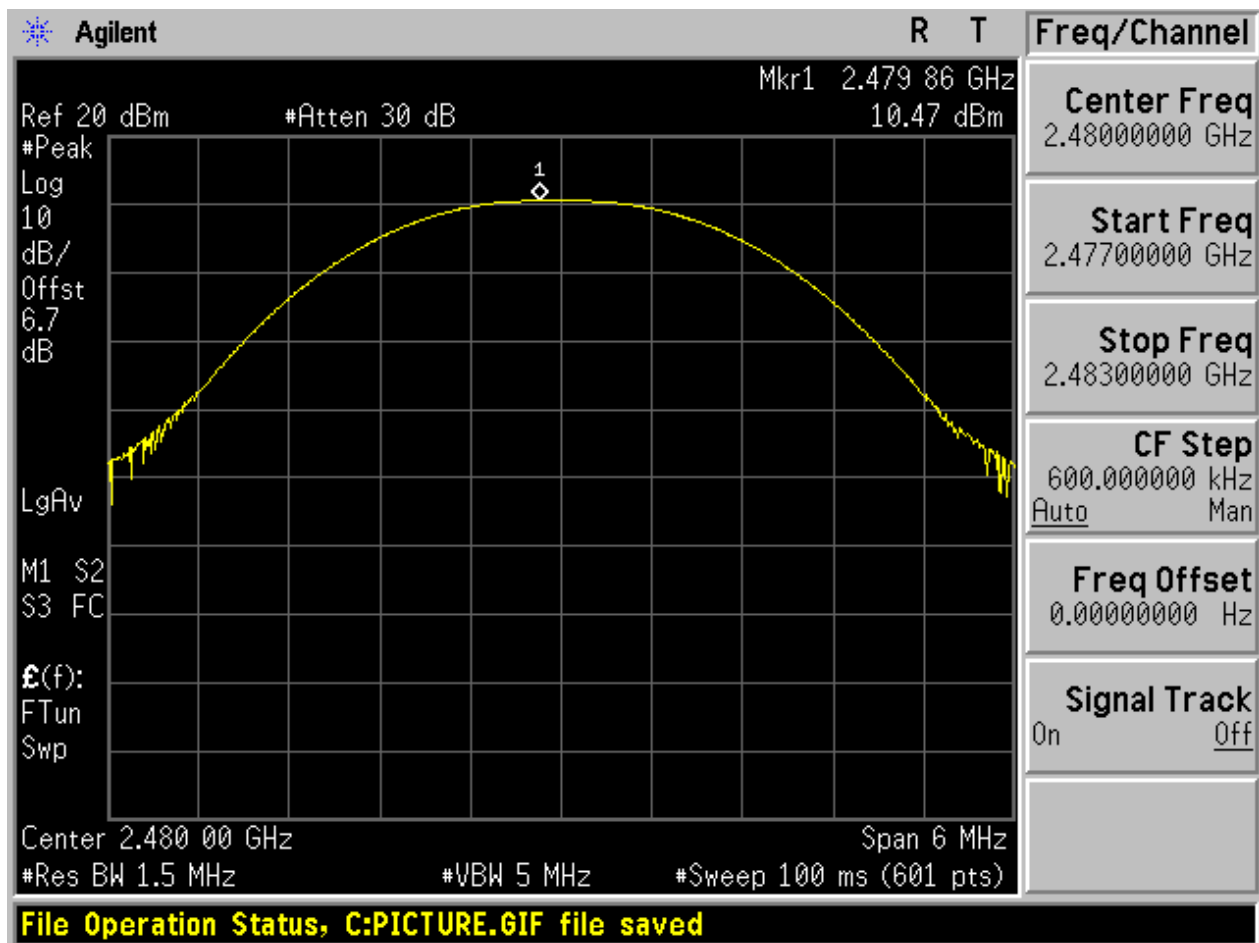


2.2 TM1_DH5_Ch39



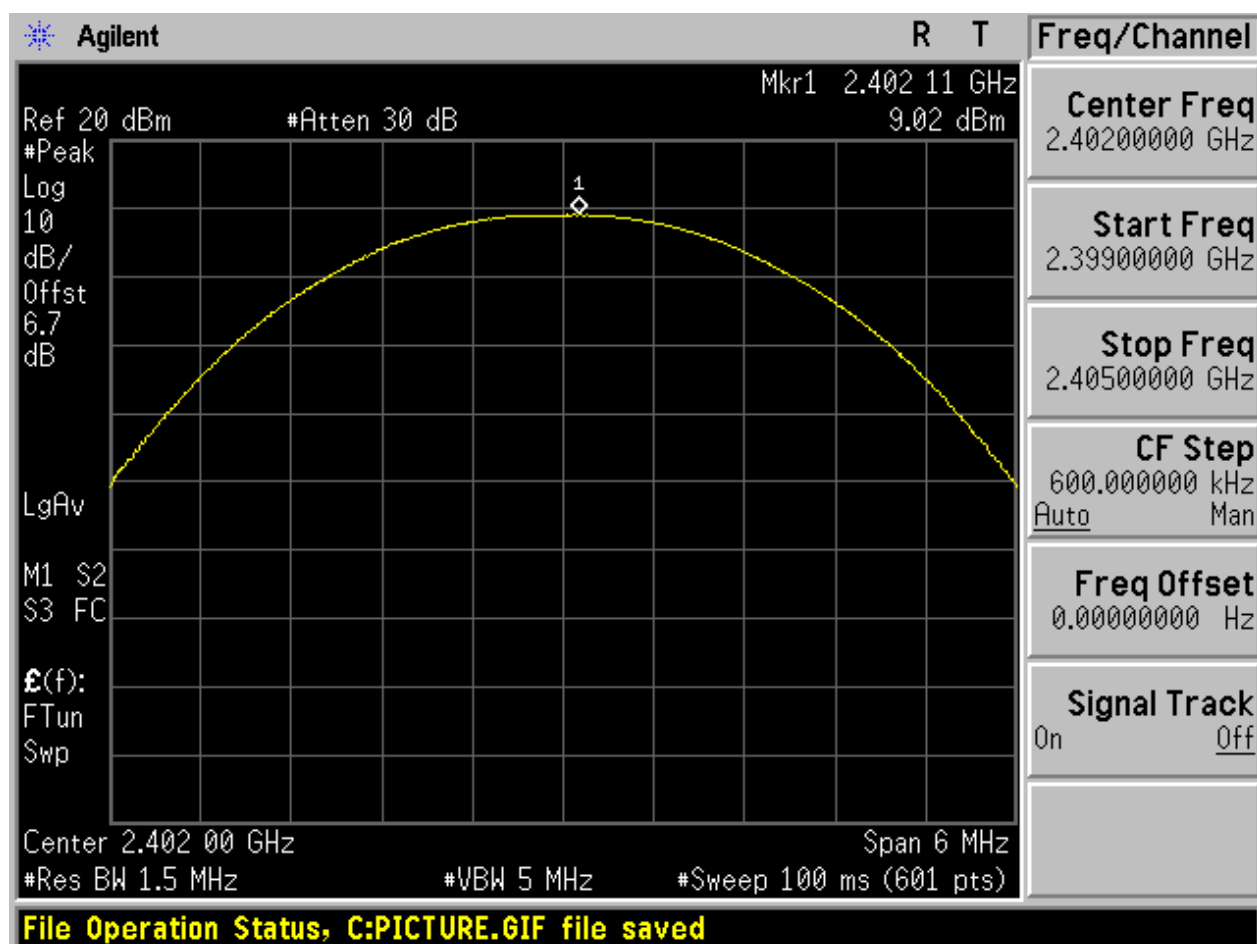


2.3 TM1_DH5_Ch78



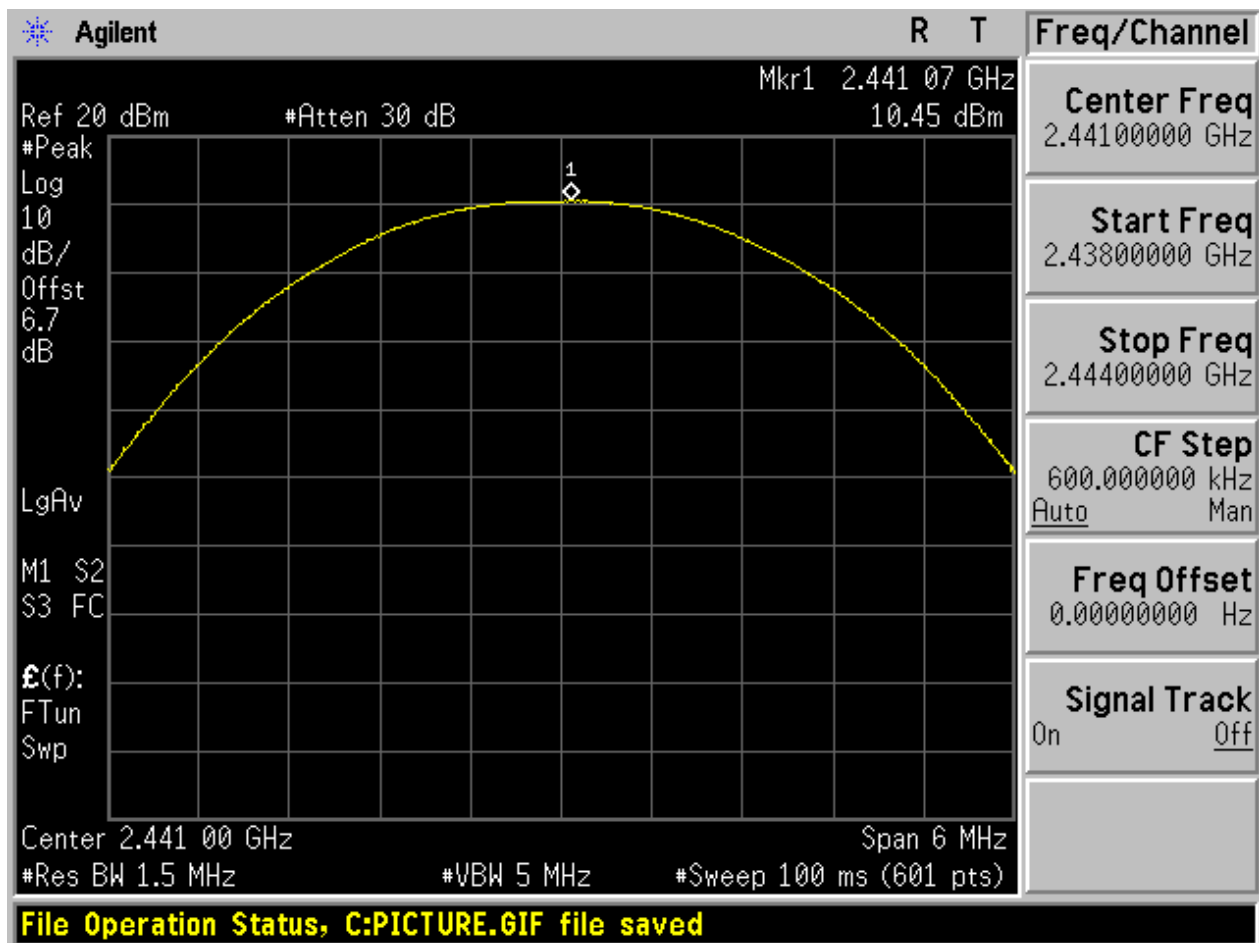


2.4 TM2_2DH5_Ch0



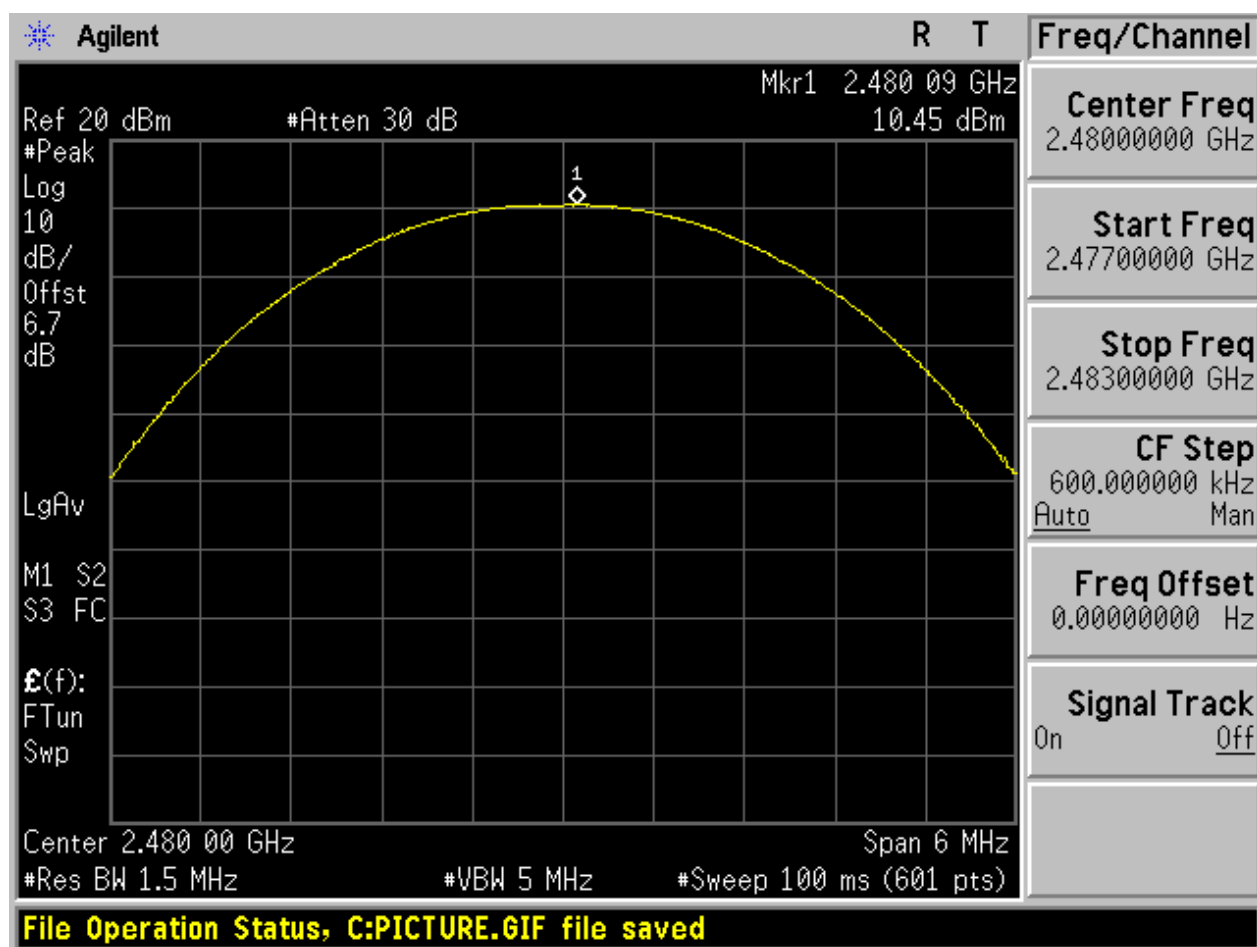


2.5 TM2_2DH5_Ch39



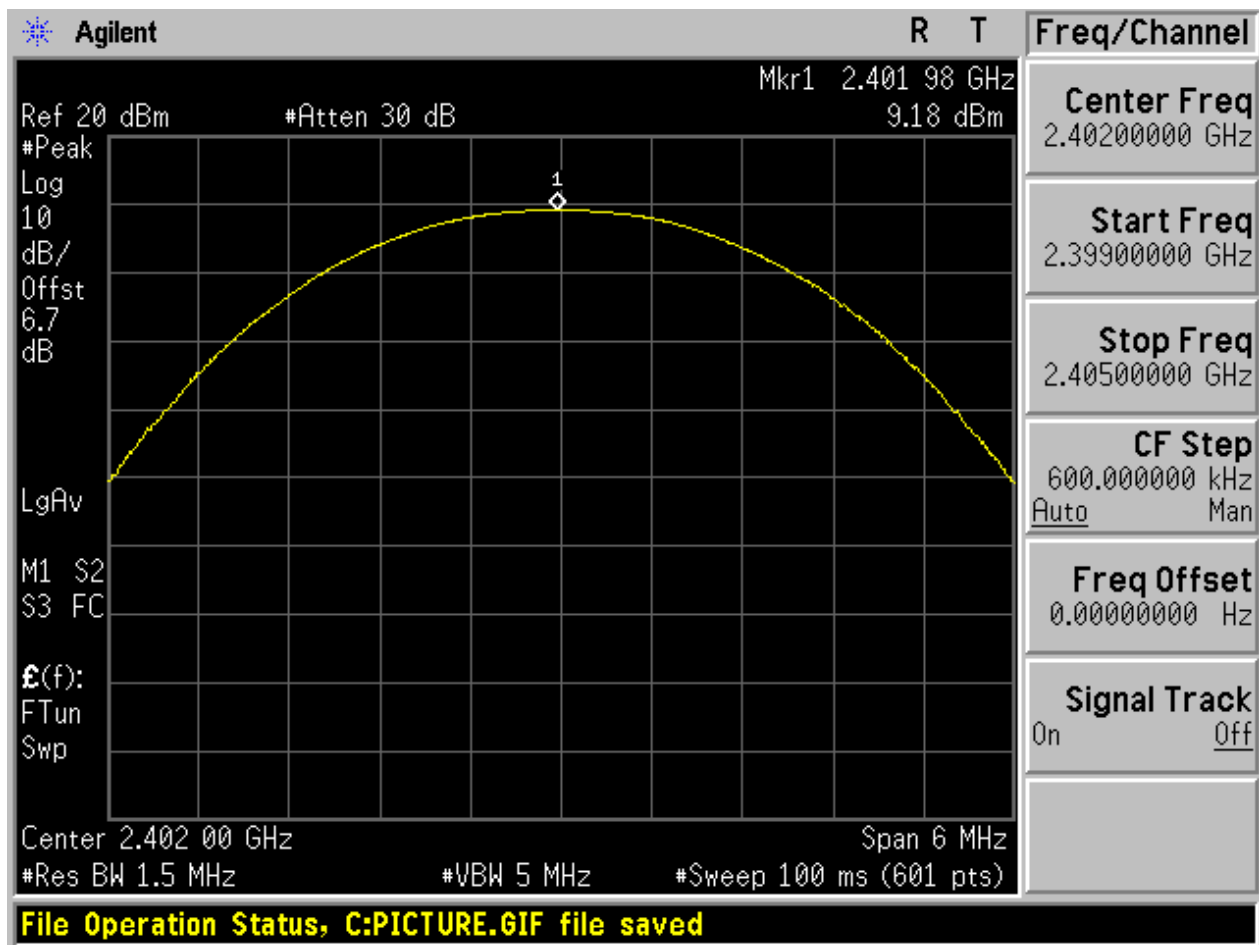


2.6 TM2_2DH5_Ch78



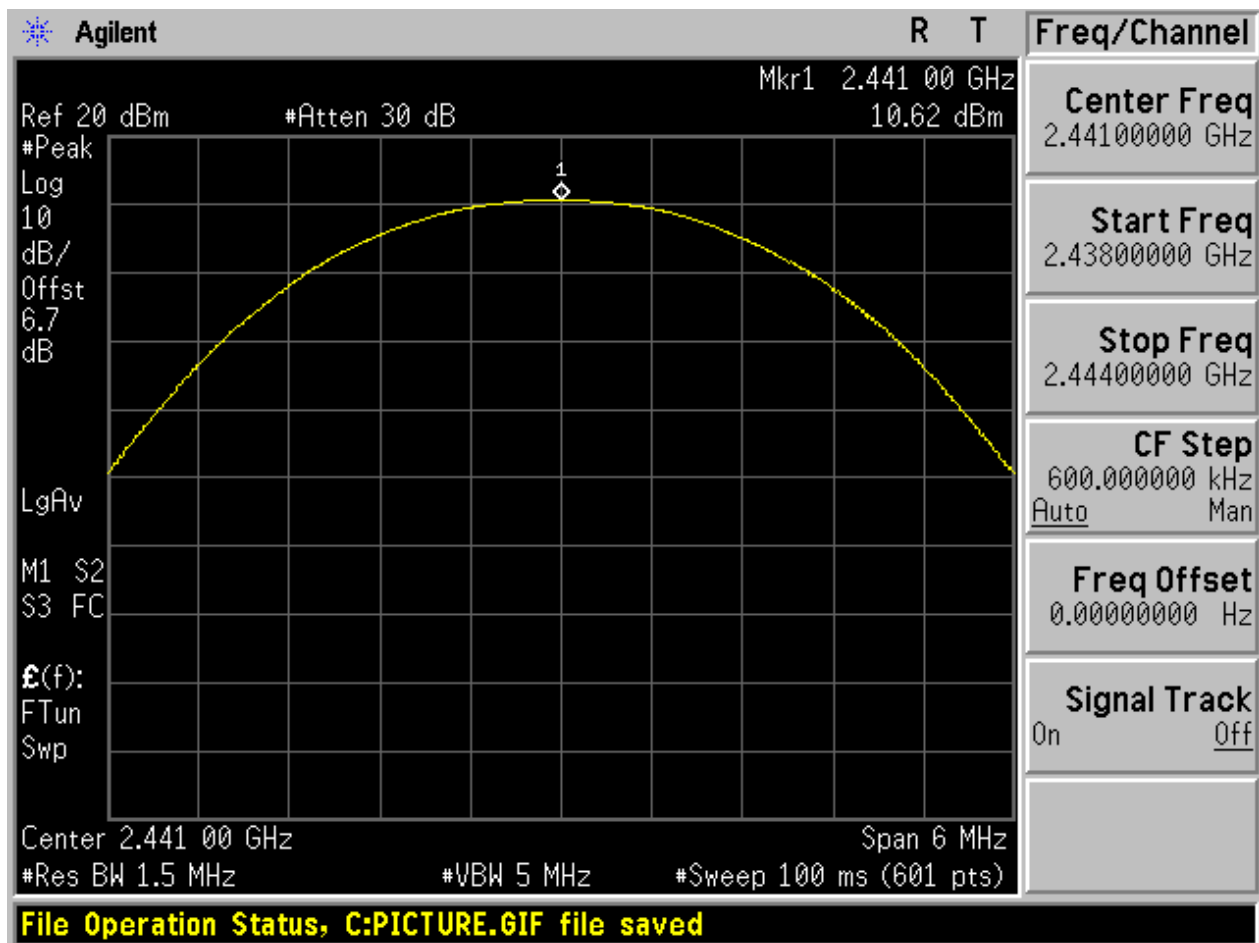


2.7 TM3_3DH5_Ch0



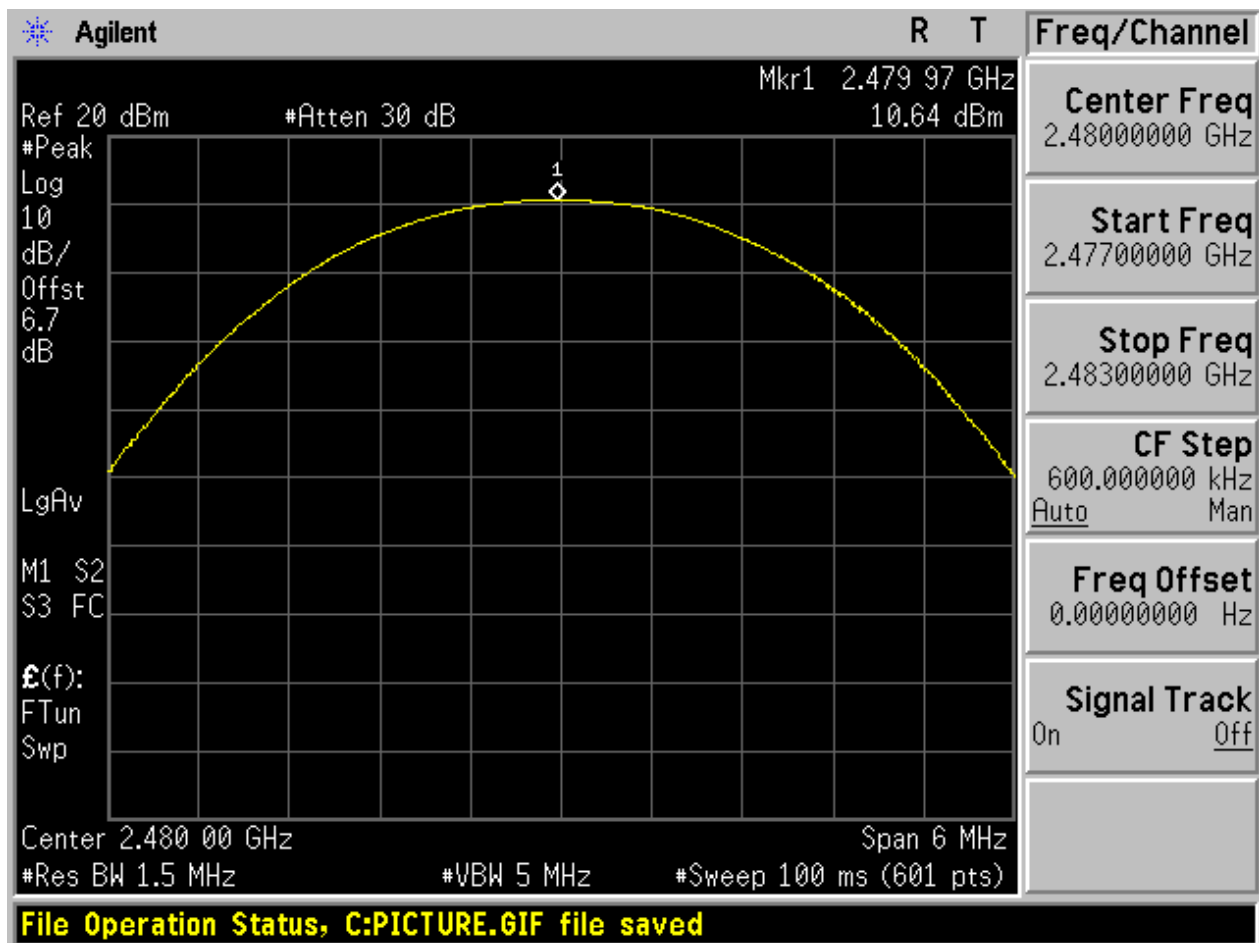


2.8 TM3_3DH5_Ch39





2.9 TM3_3DH5_Ch78



Appendix F: Band edge spurious emission



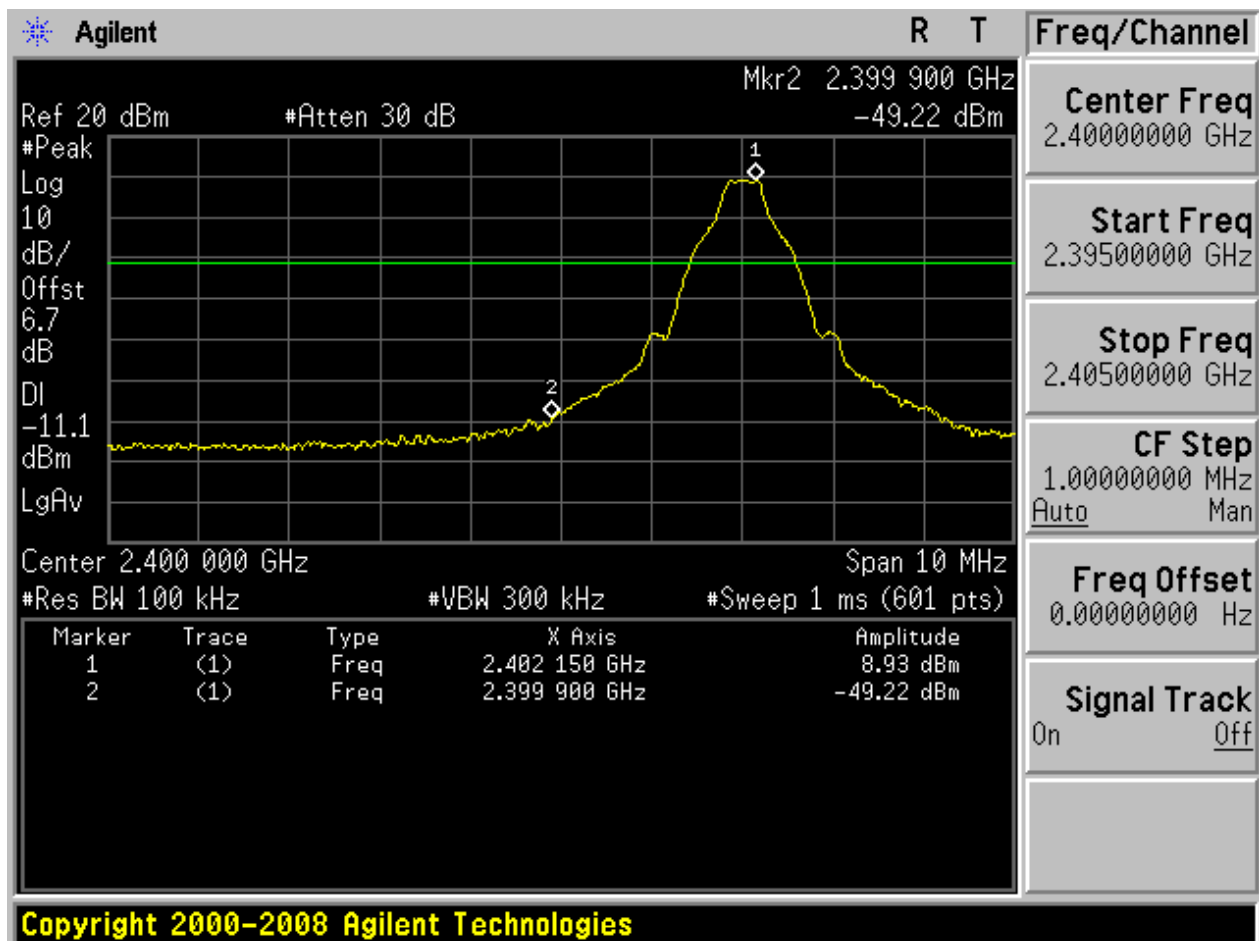
1 Result Table

EUT Conf.	Channel No.	Carrier Frequency [MHz]	Max. Spurious Level [dBm]	Frequency Hopping	Carrier Power [dBm]	Limit [dBm]	Result
TM1_DH5_Ch0	0	2402	-49.22	Off	8.93	-11.07	Pass
	-	-	-51.41	On	8.77	-11.23	Pass
TM1_DH5_Ch78	78	2480	-51.38	Off	10.50	-9.5	Pass
	-	-	-49.3	On	10.05	-9.95	Pass
TM2_2DH5_Ch0	0	2402	-50.45	Off	7.42	-12.58	Pass
	-	-	-53.24	On	7.35	-12.65	Pass
TM2_2DH5_Ch78	78	2480	-54.28	Off	8.80	-11.2	Pass
	-	-	-51.85	On	8.31	-11.69	Pass
TM3_3DH5_Ch0	0	2402	-50.26	Off	7.43	-12.57	Pass
	-	-	-53.62	On	6.57	-13.43	Pass
TM3_3DH5_Ch78	78	2480	-53.66	Off	8.74	-11.26	Pass
	-	-	-51.09	On	8.49	-11.51	Pass

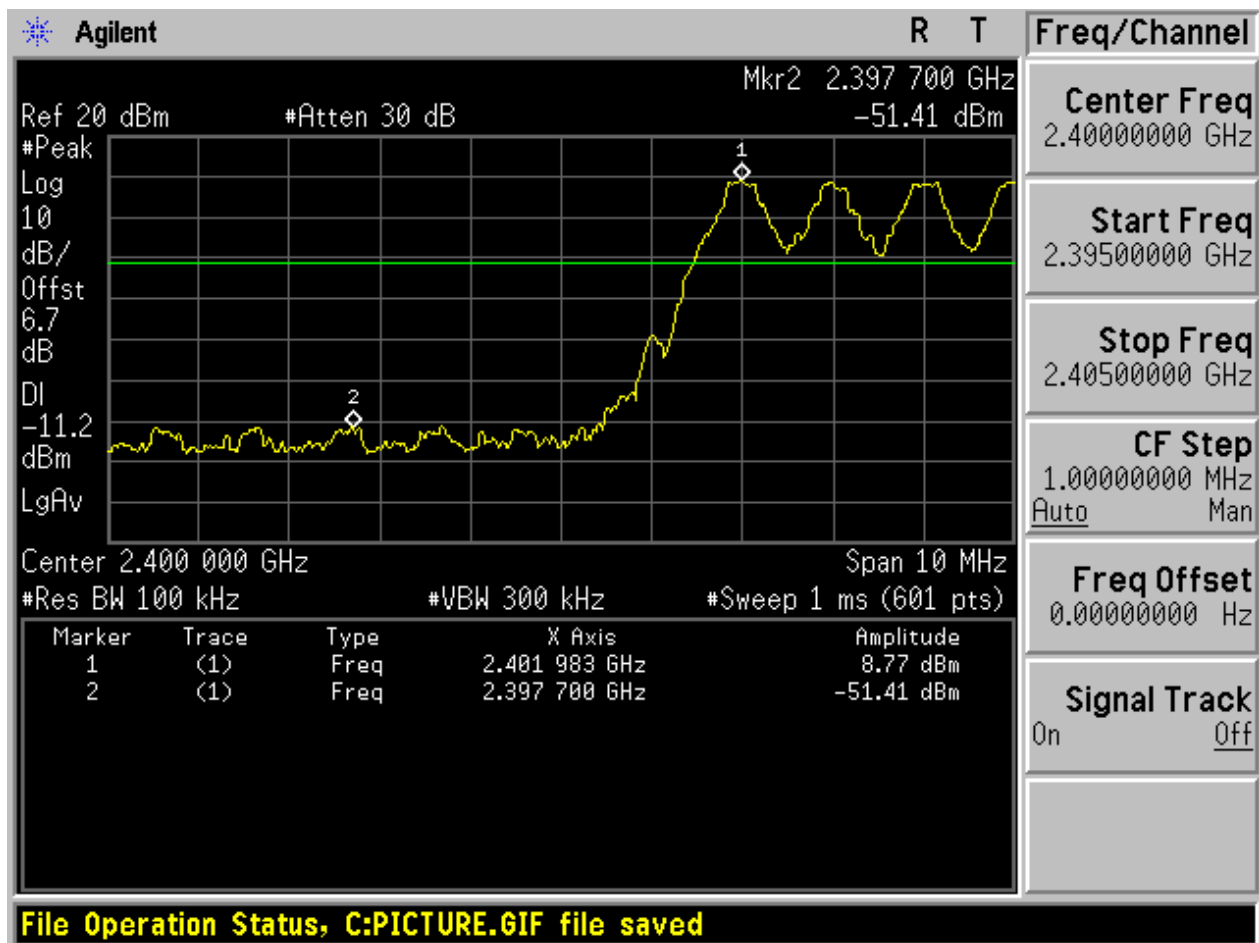
2 Test Plot

2.1 TM1_DH5_Ch0

No hopping

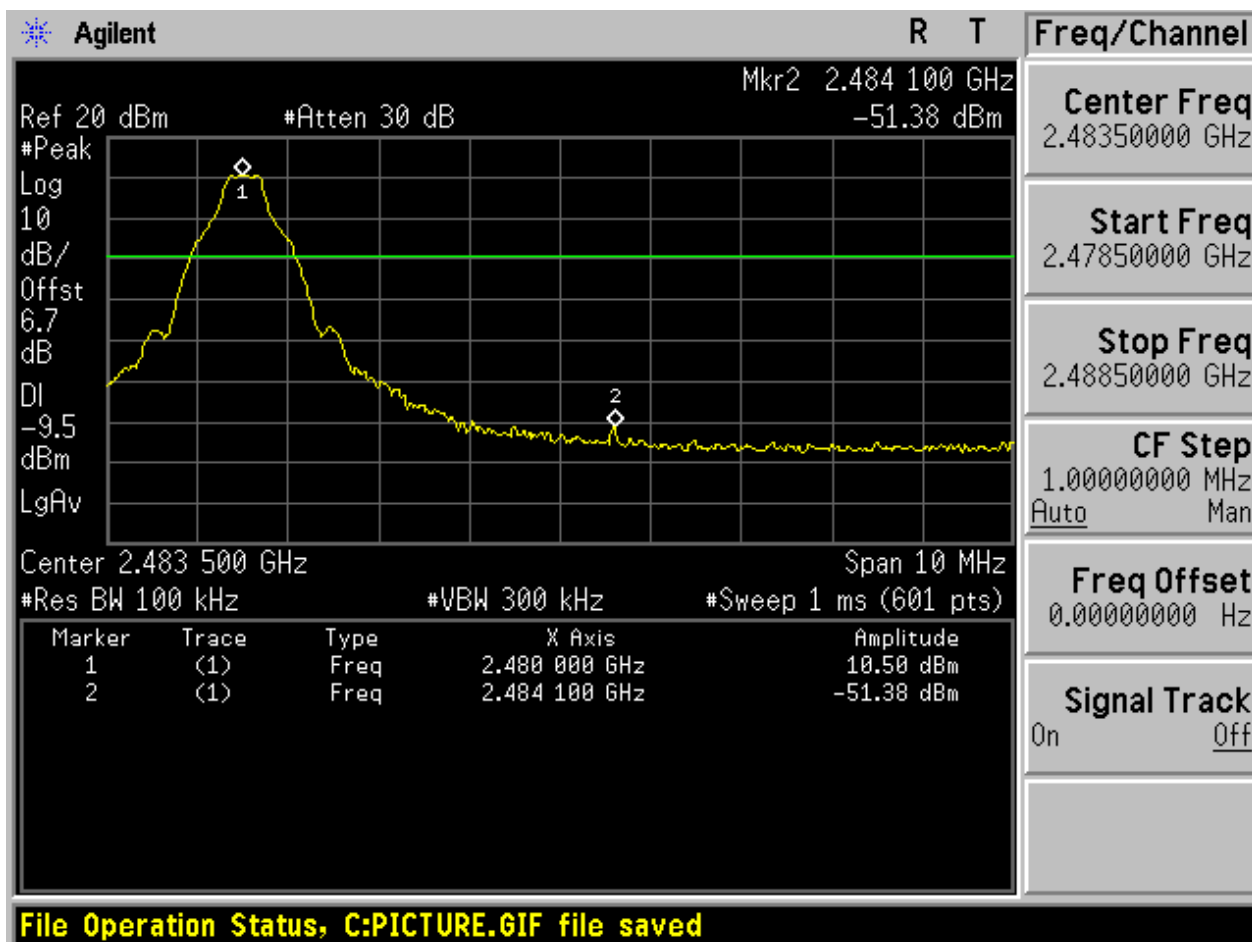


With hopping

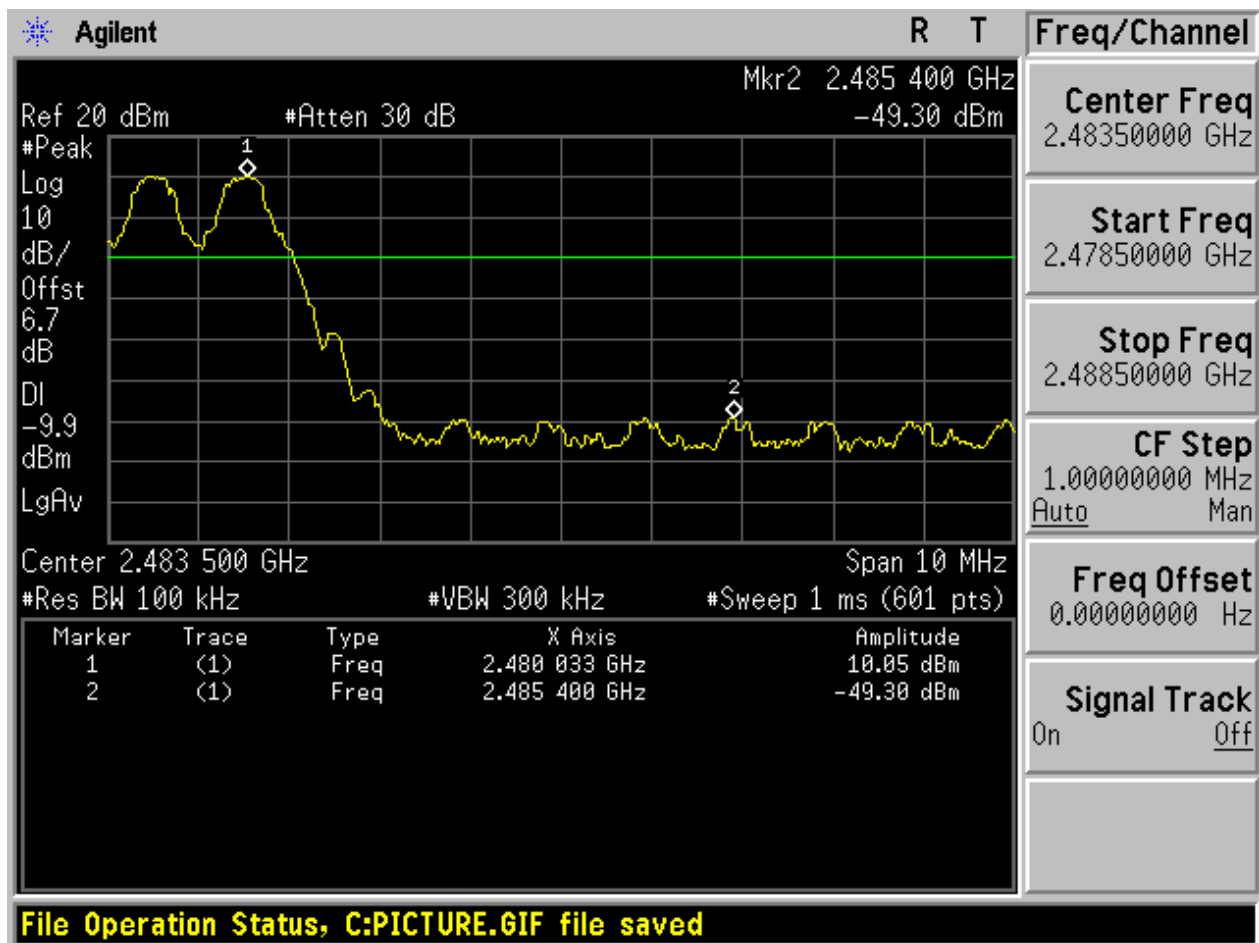


2.2 TM1_DH5_Ch78

No hopping

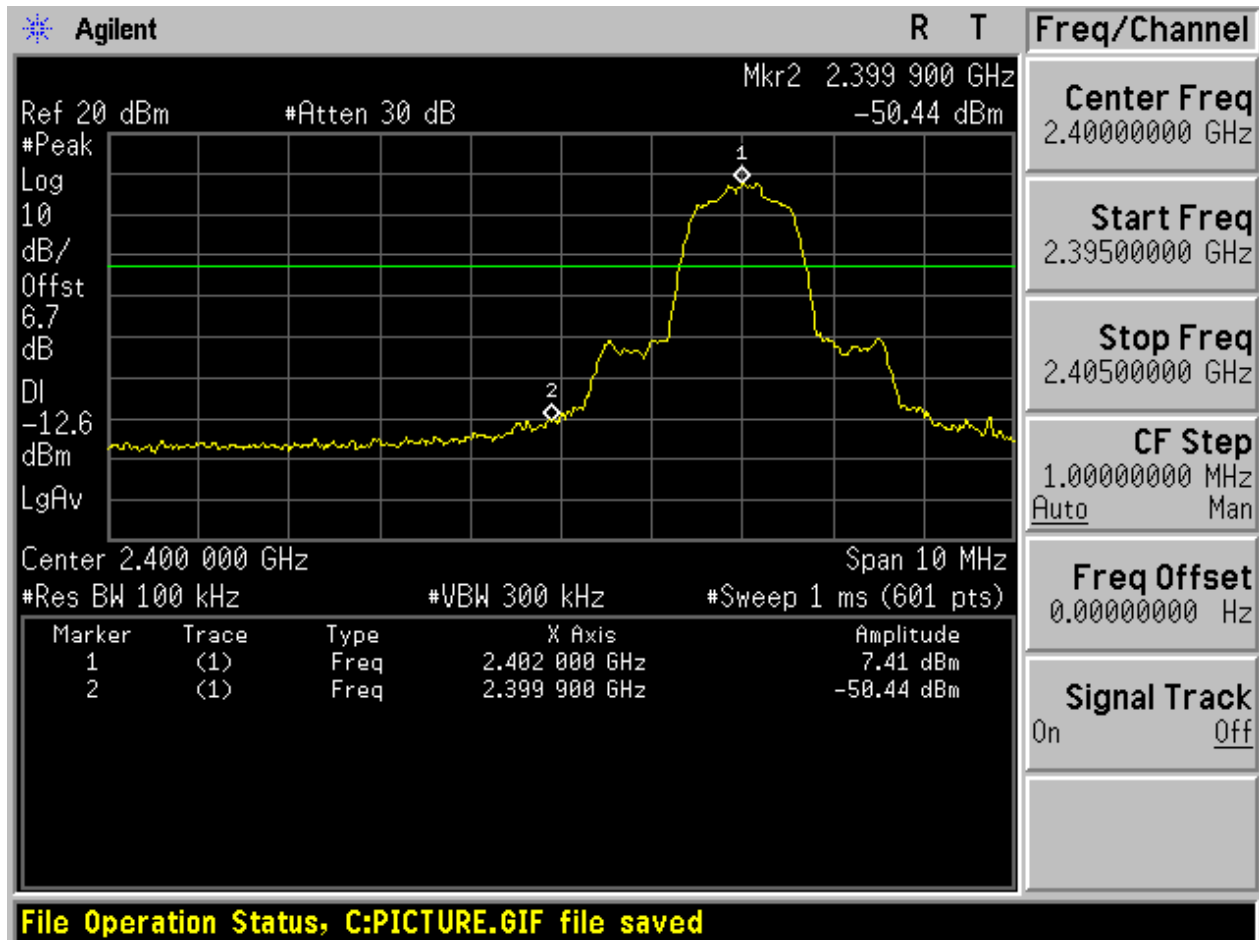


With hopping

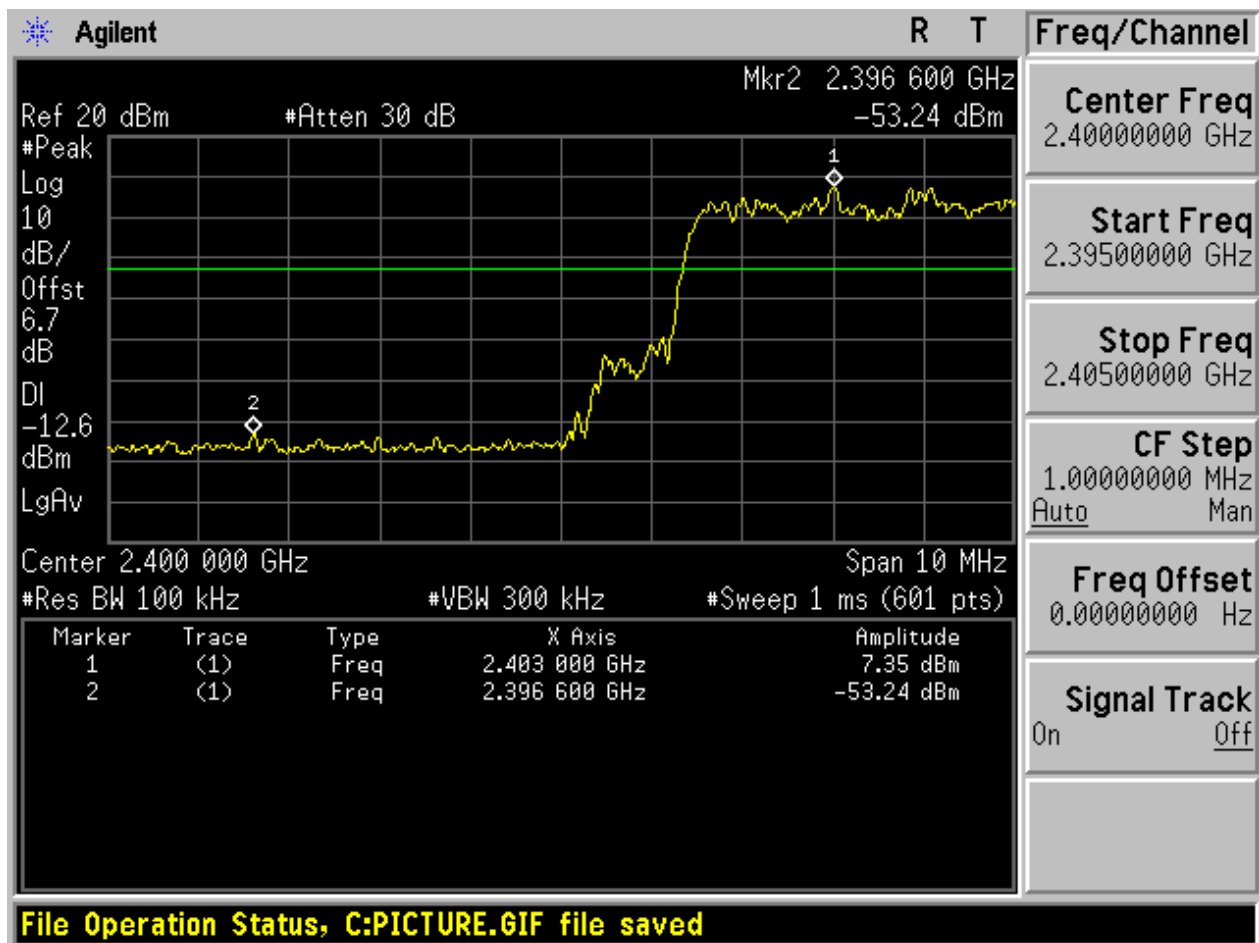


2.3 TM2_2DH5_Ch0

No hopping

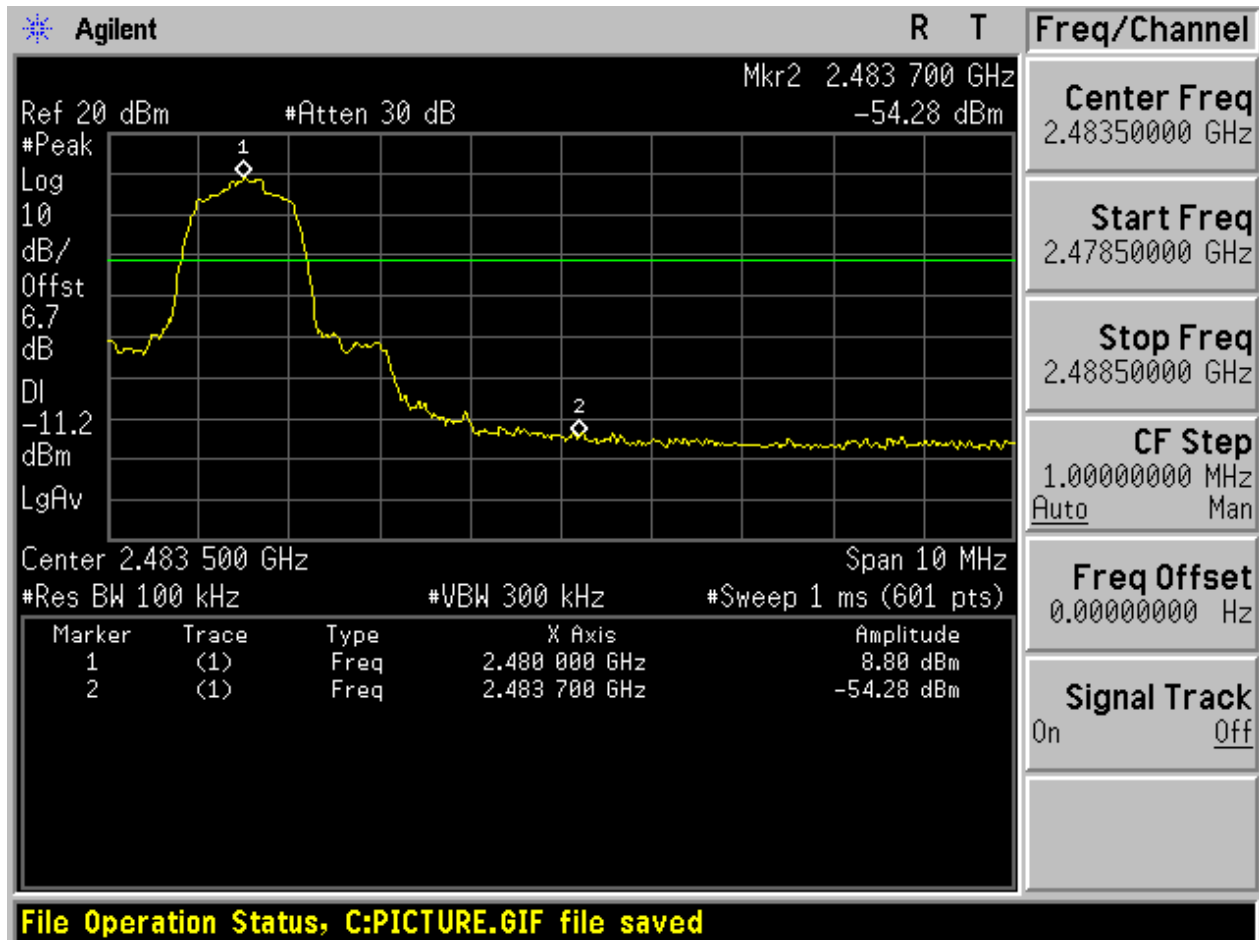


With hopping

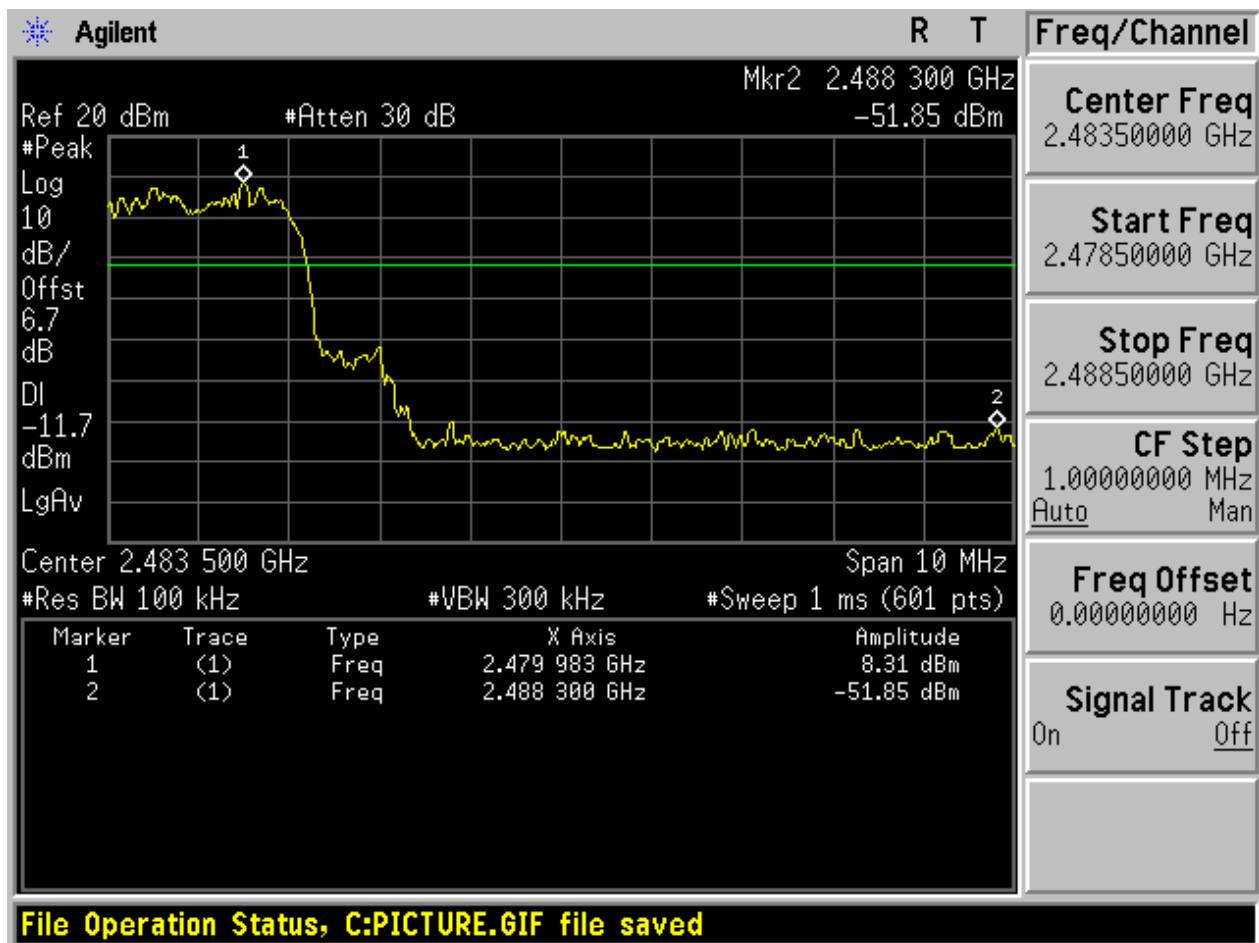


2.4 TM2_2DH5_Ch78

No hopping

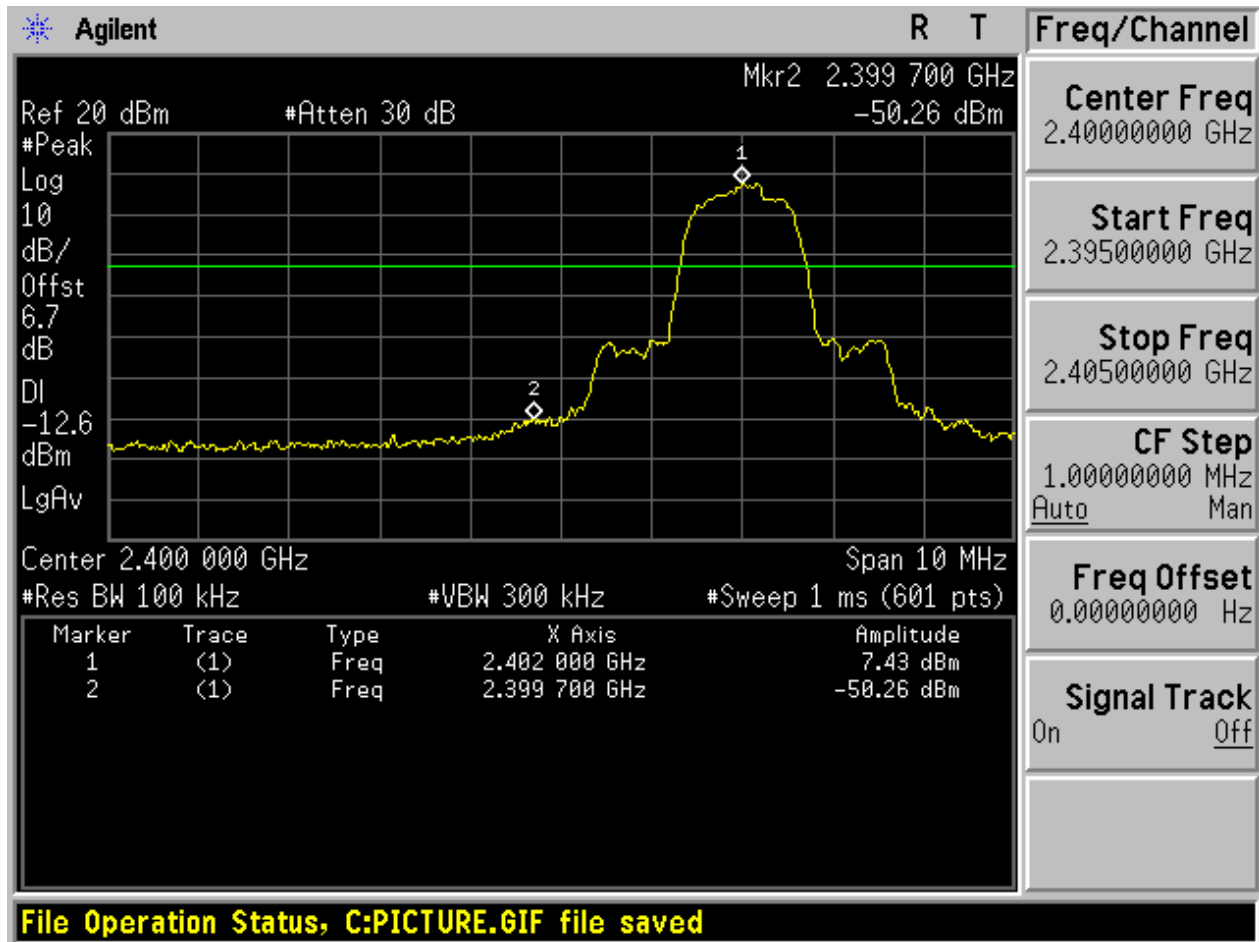


With hopping

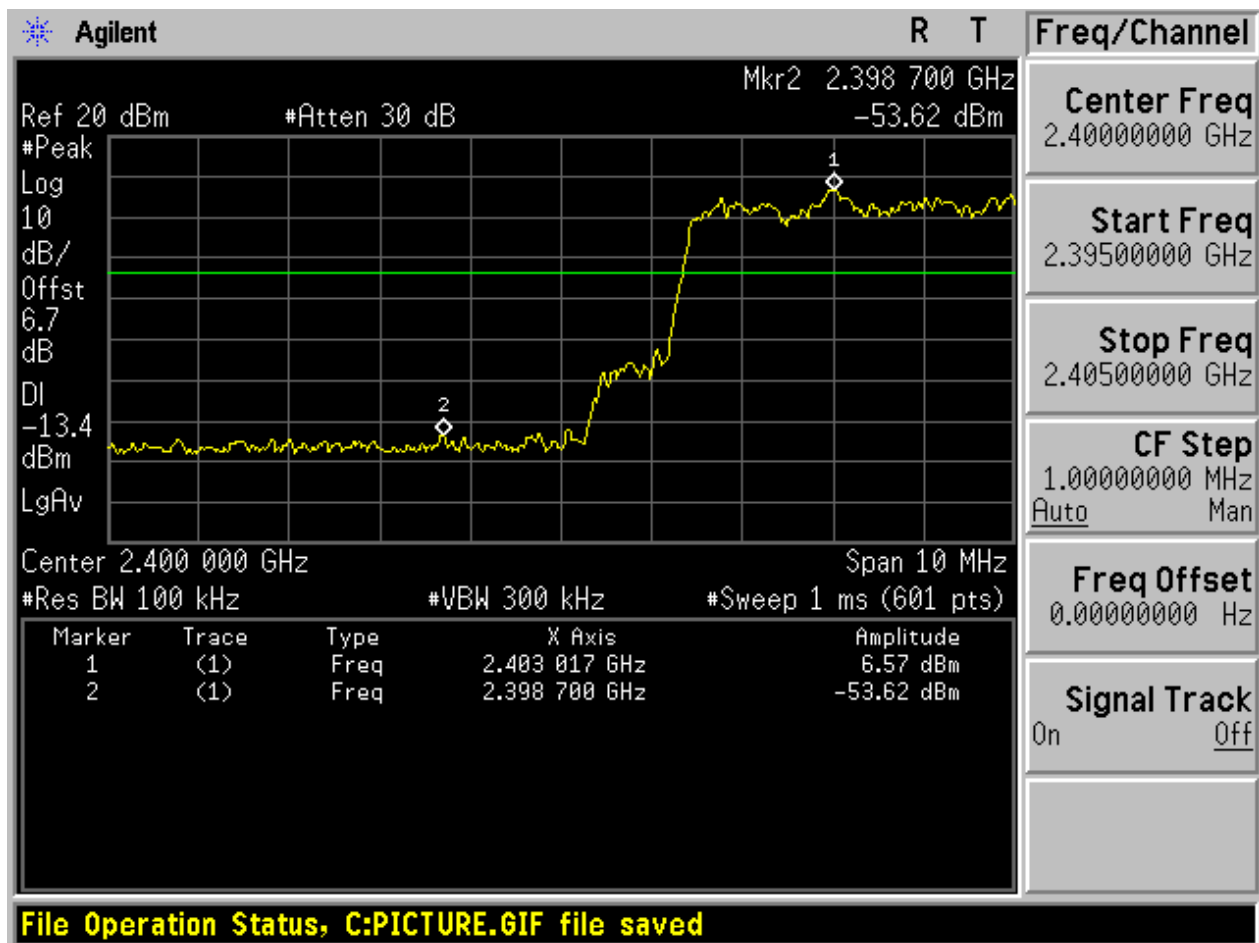


2.5 TM3_3DH5_Ch0

No hopping

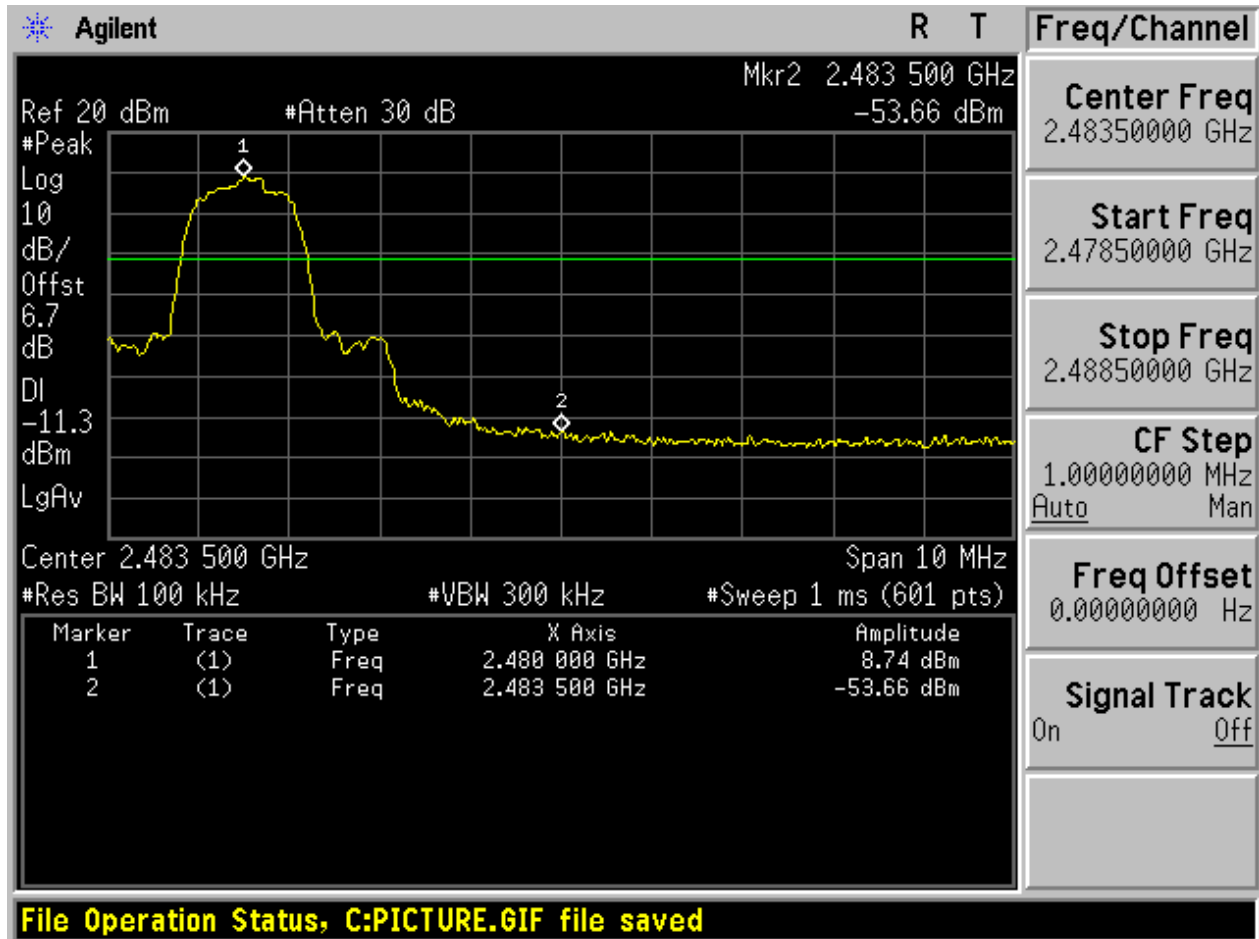


With hopping

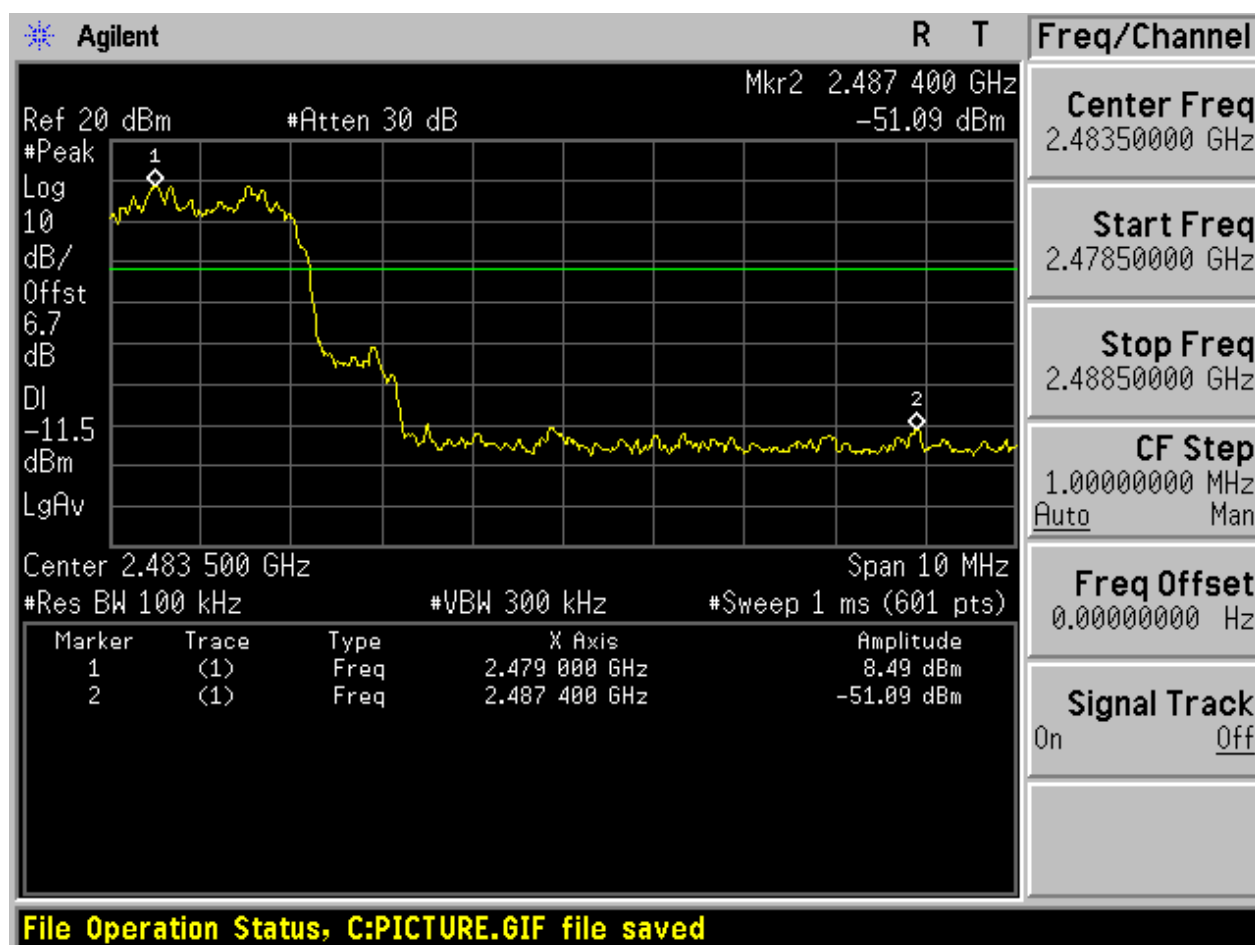


2.6 TM3_3DH5_Ch78

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” refers to the maximum emission power in 100 kHz band segments outside of the authorized frequency band.

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

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

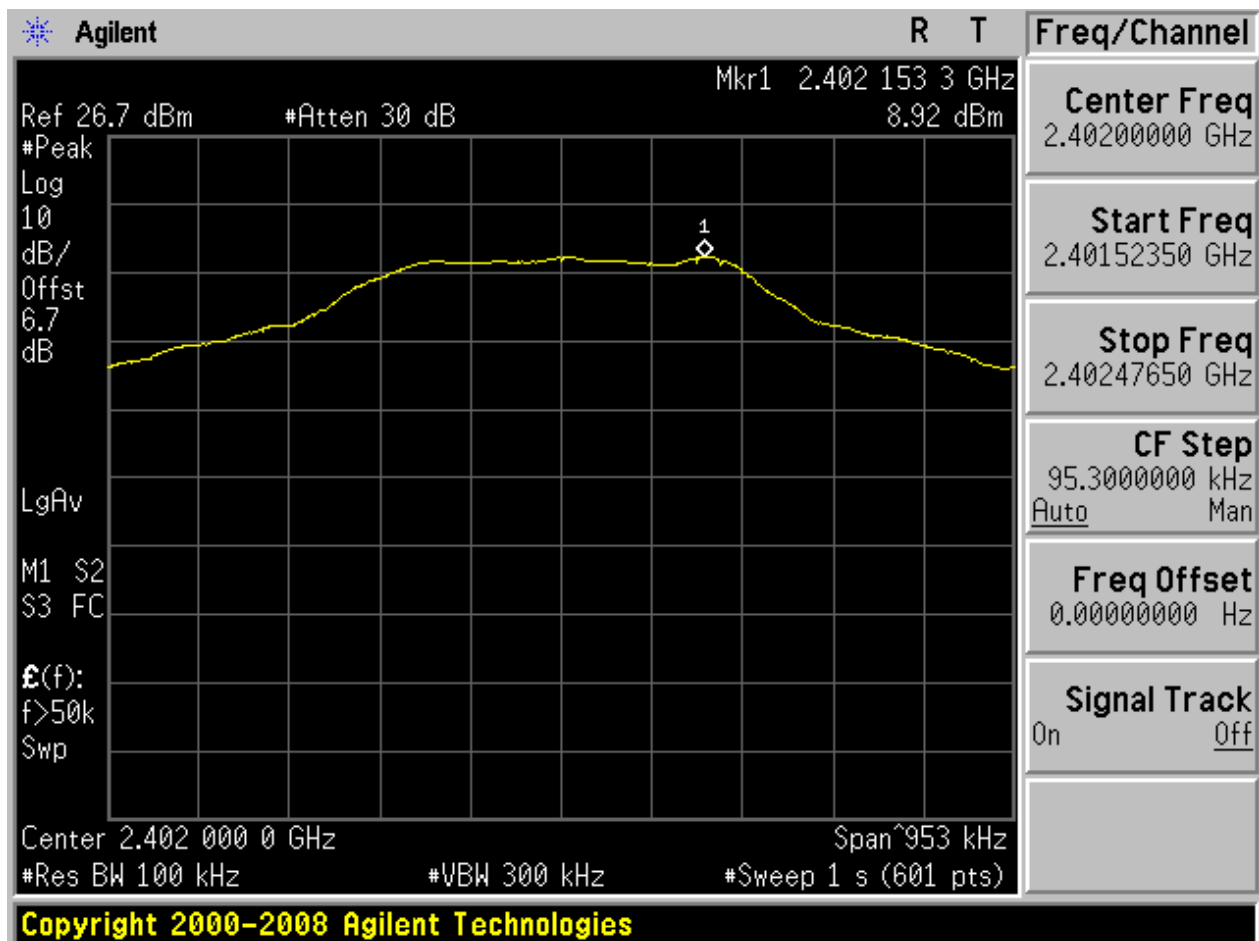
EUT Conf.	Pref [dBm/100 kHz]	Puw [dBm/100 kHz]	Verdict
TM1_DH5_Ch0	8.92	< Limit	Pass
TM1_DH5_Ch39	10.34	< Limit	Pass
TM1_DH5_Ch78	10.34	< Limit	Pass
TM2_2DH5_Ch0	7.32	< Limit	Pass
TM2_2DH5_Ch39	8.68	< Limit	Pass
TM2_2DH5_Ch78	8.67	< Limit	Pass
TM3_3DH5_Ch0	7.32	< Limit	Pass
TM3_3DH5_Ch39	8.69	< Limit	Pass
TM3_3DH5_Ch78	8.67	< Limit	Pass



2 Test Plot

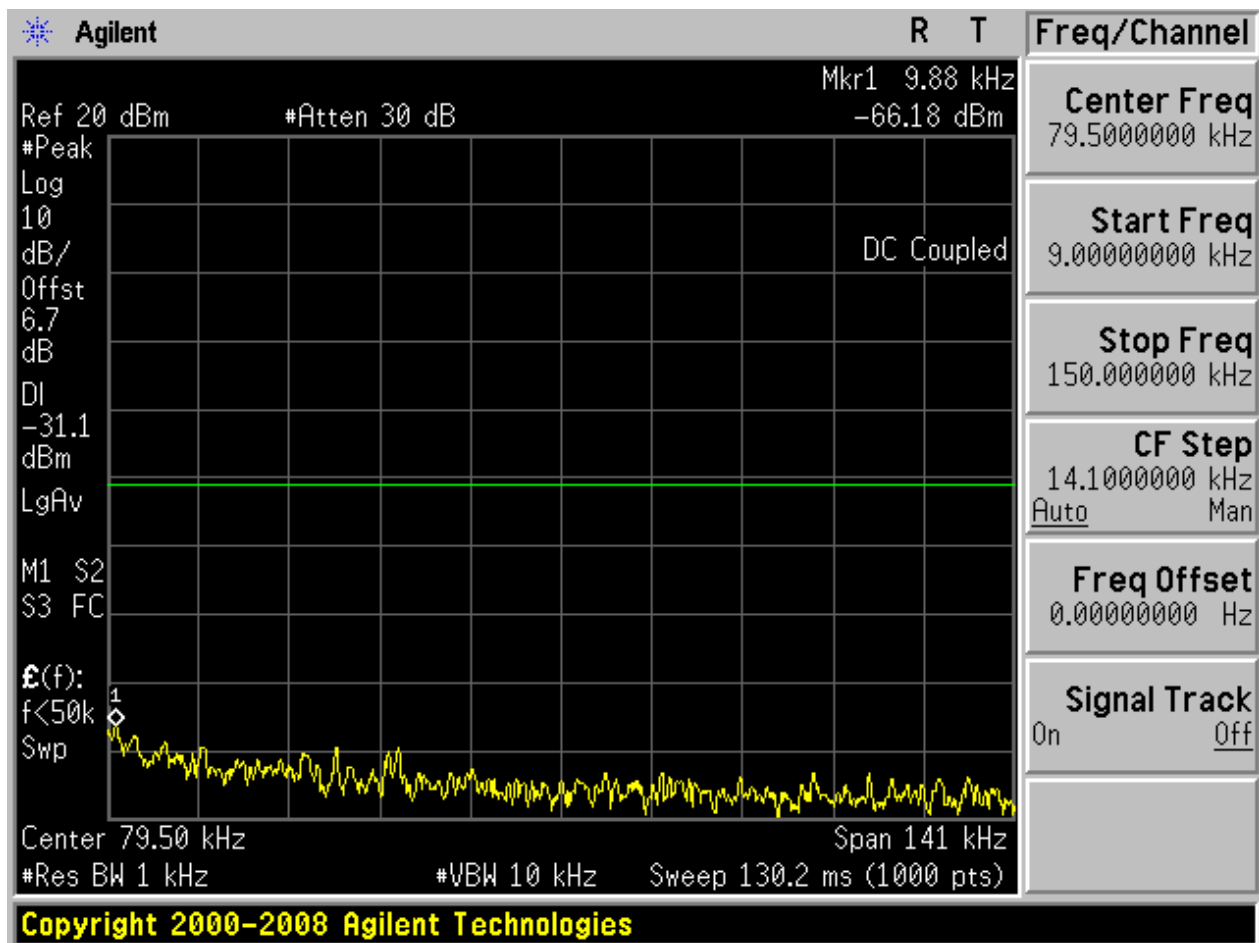
2.1 TM1_DH5_Ch0

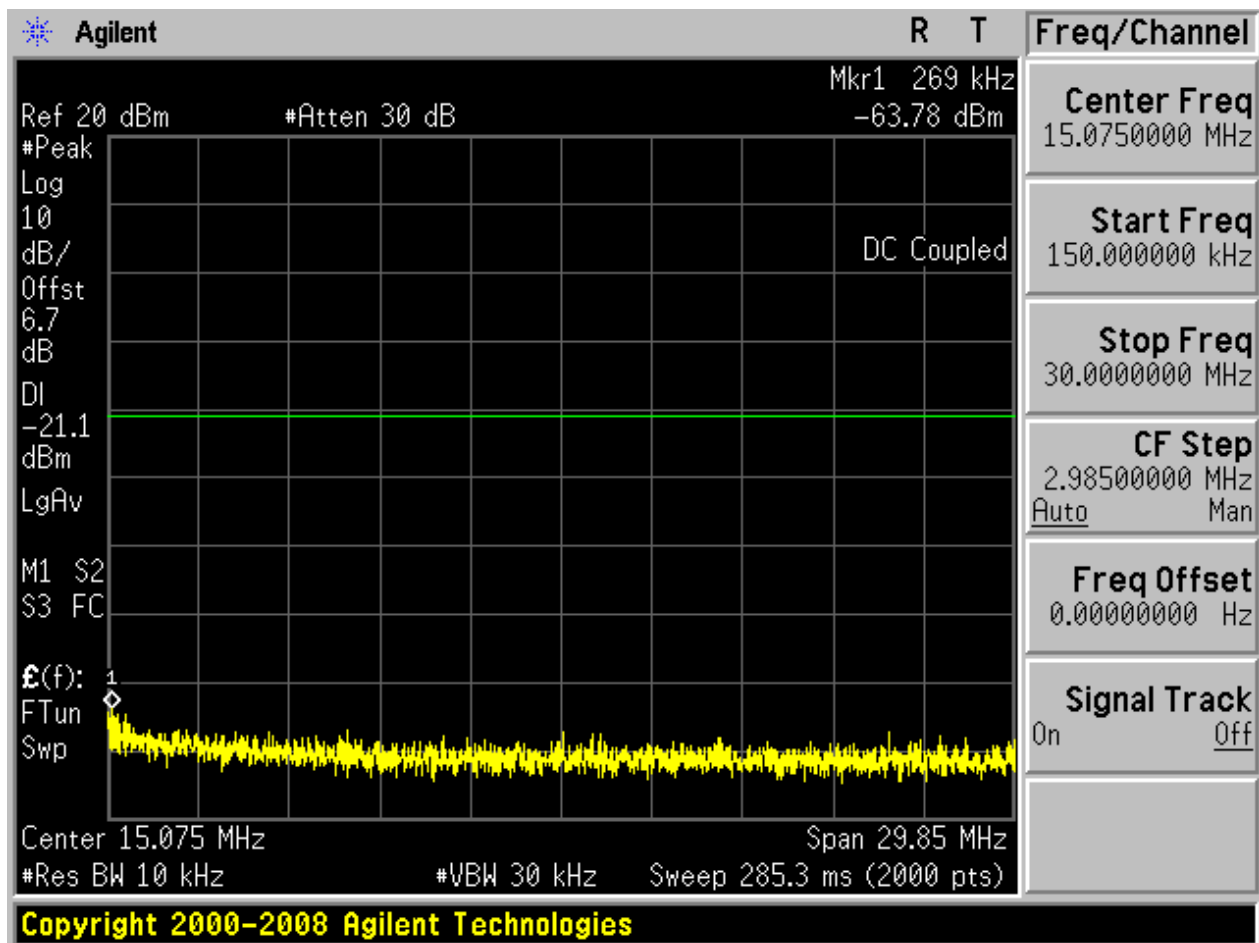
2.1.1 Pref

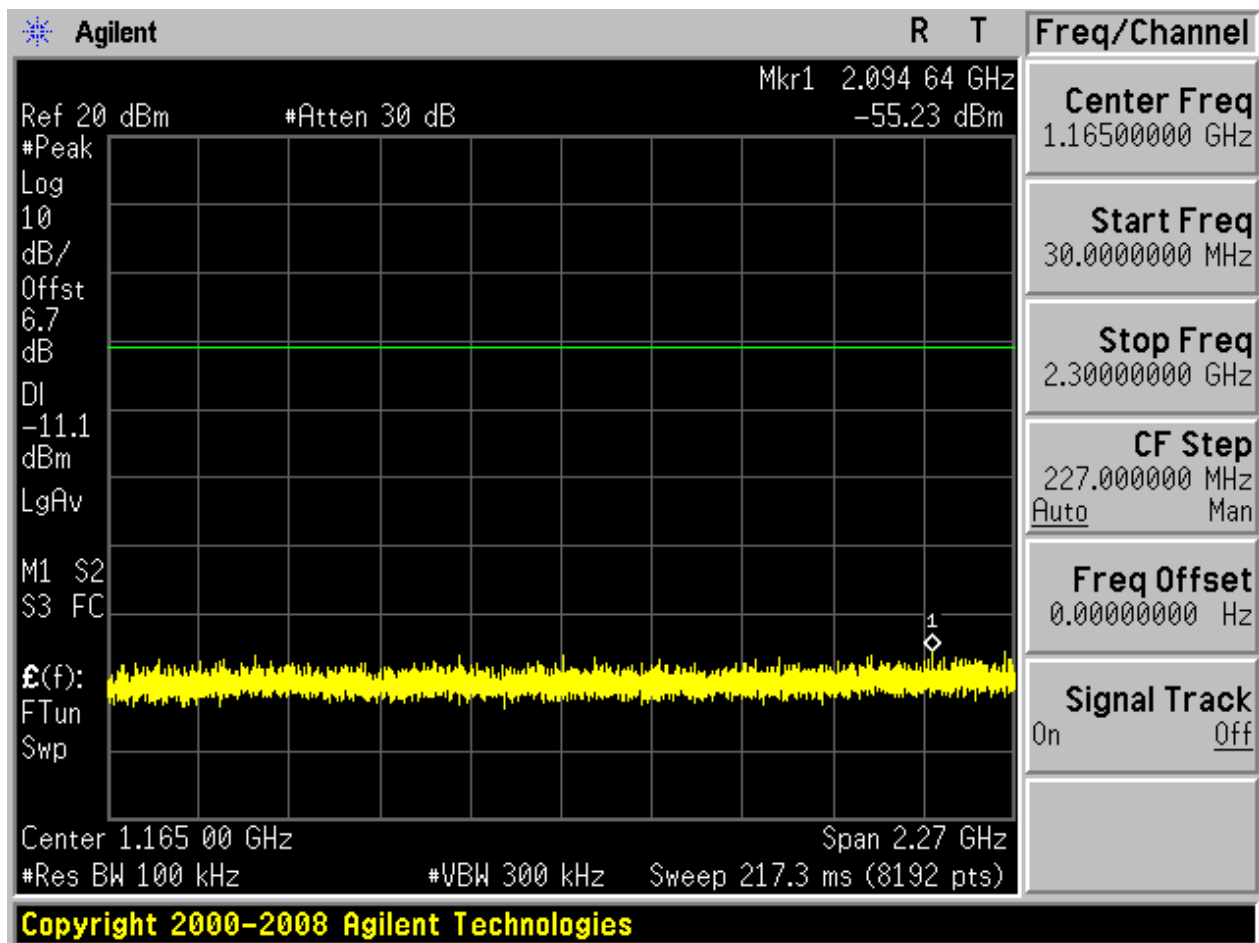


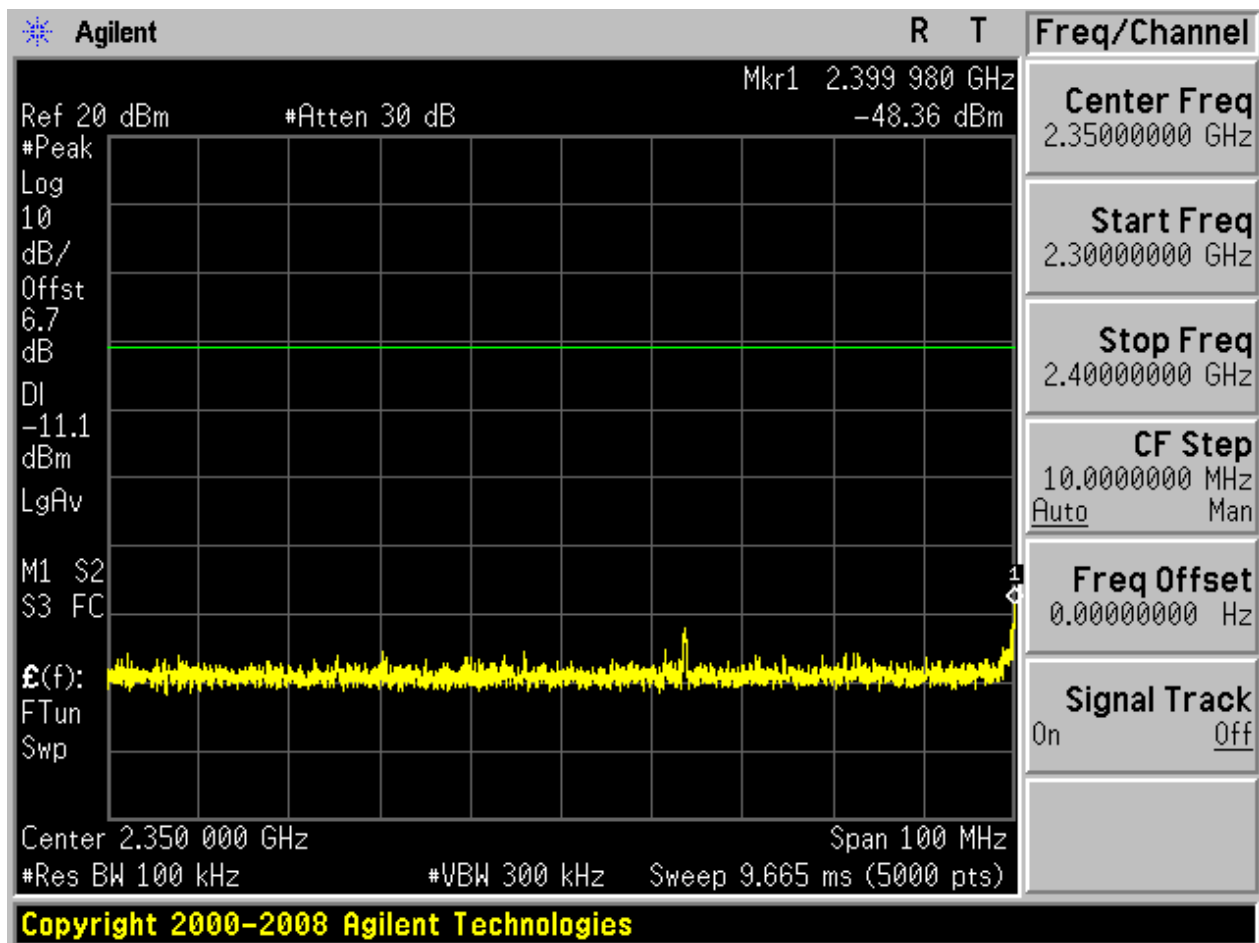


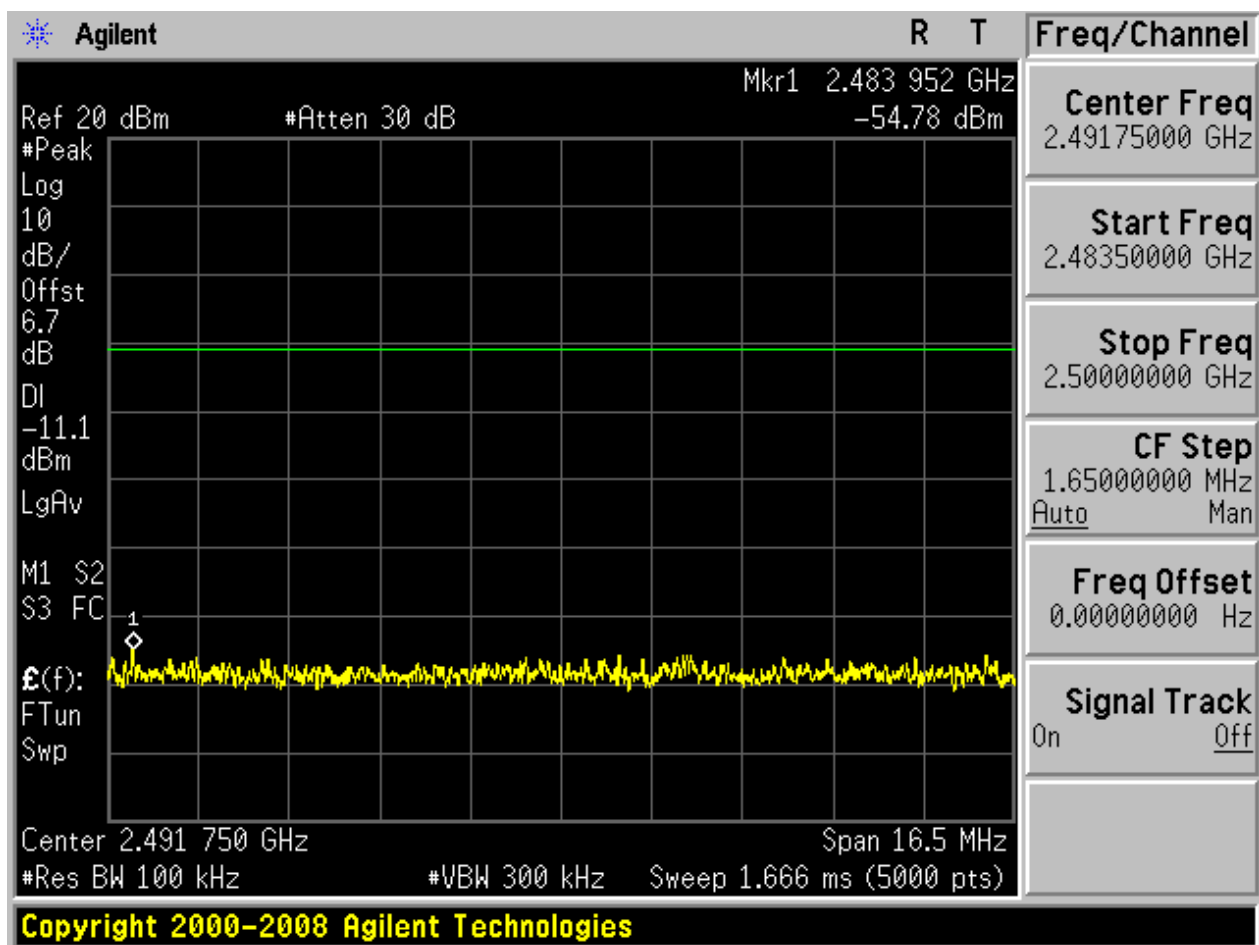
2.1.2 Puw

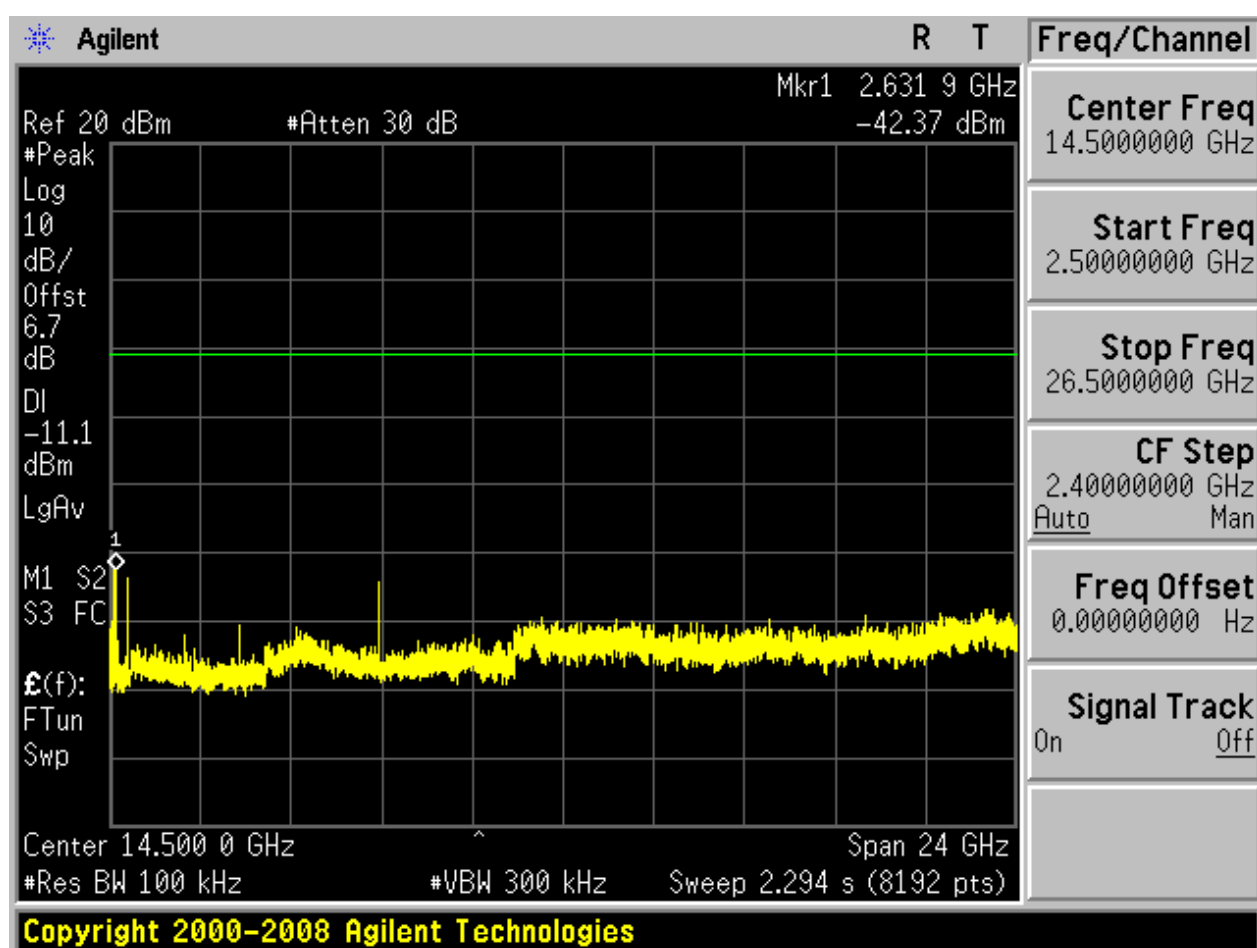






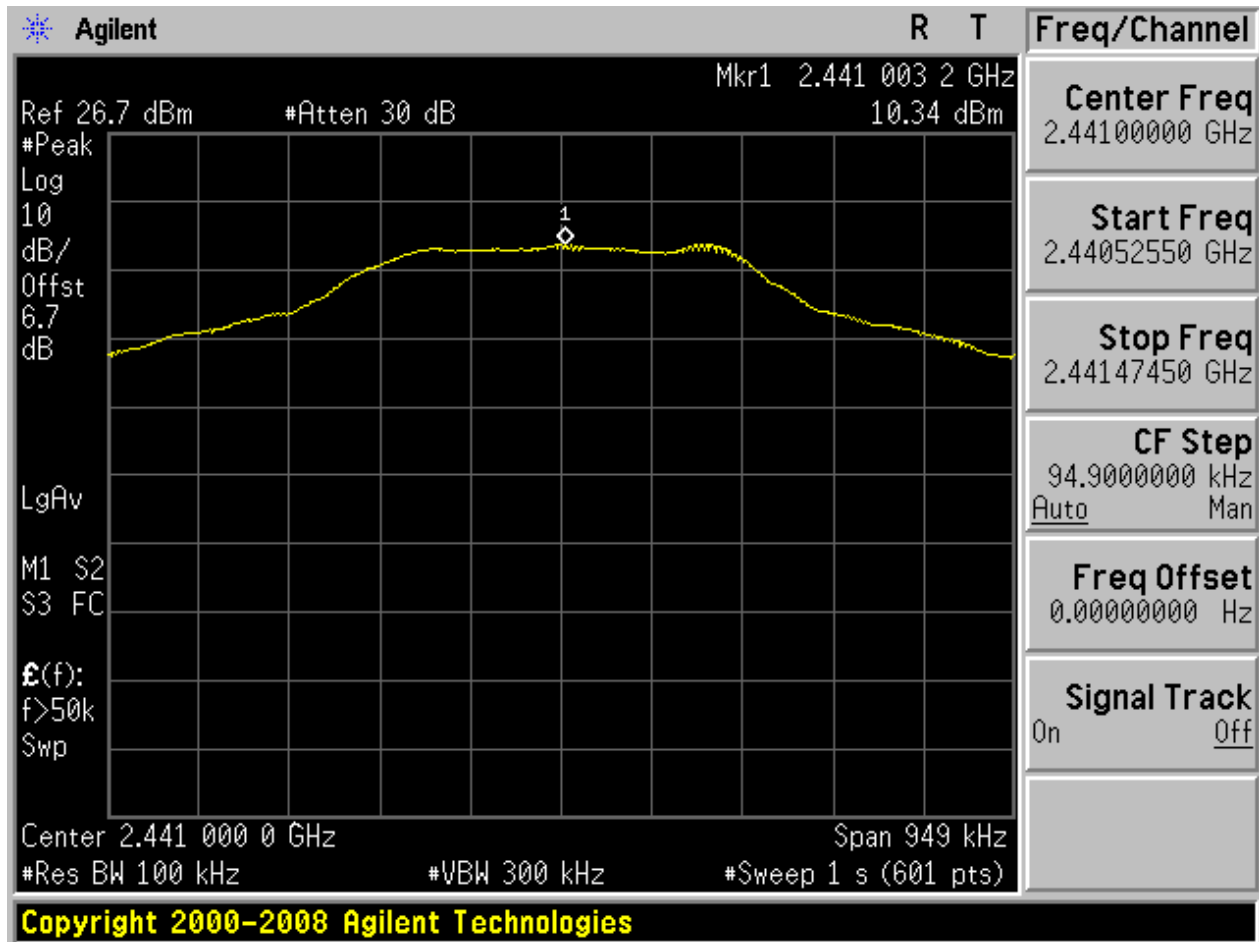




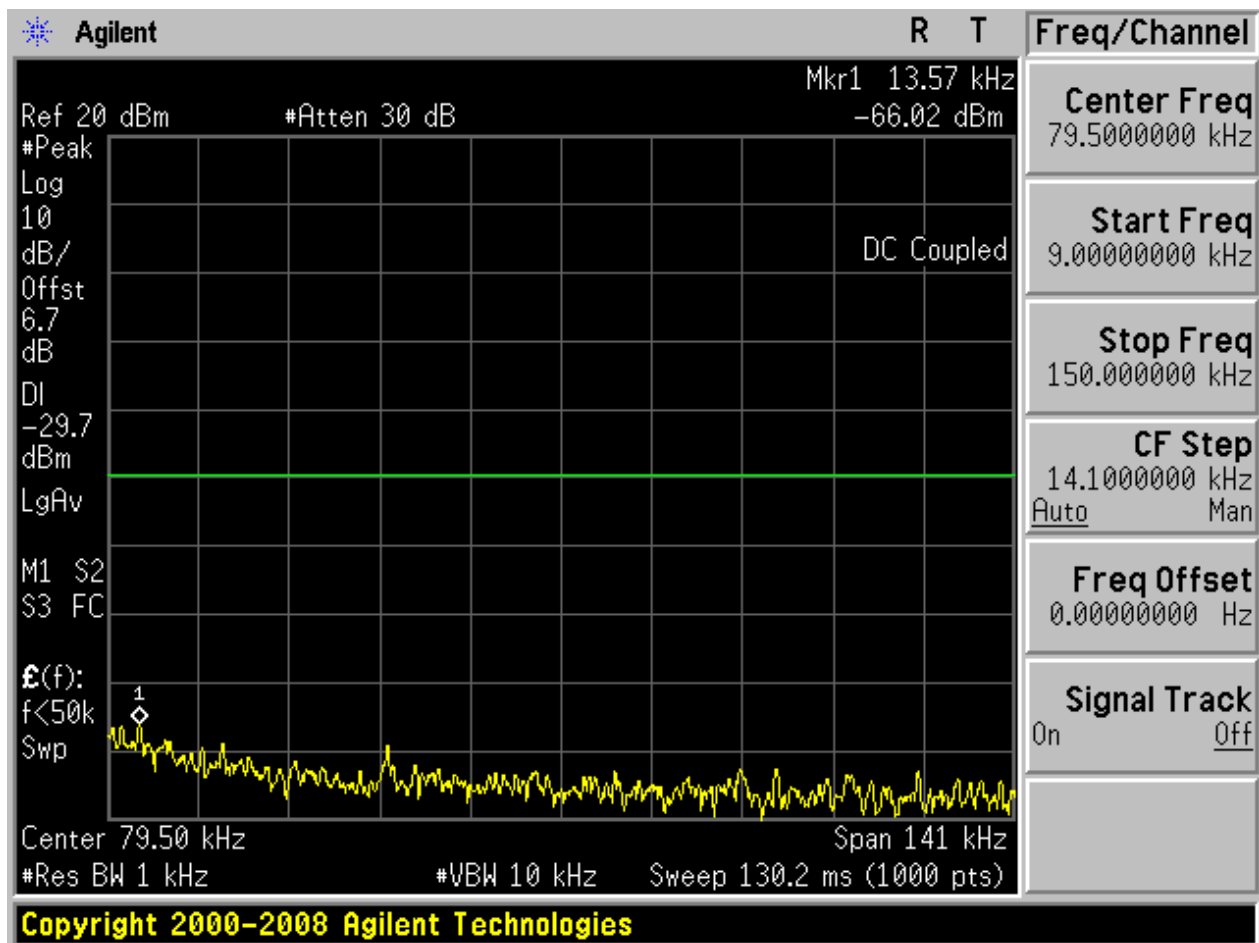


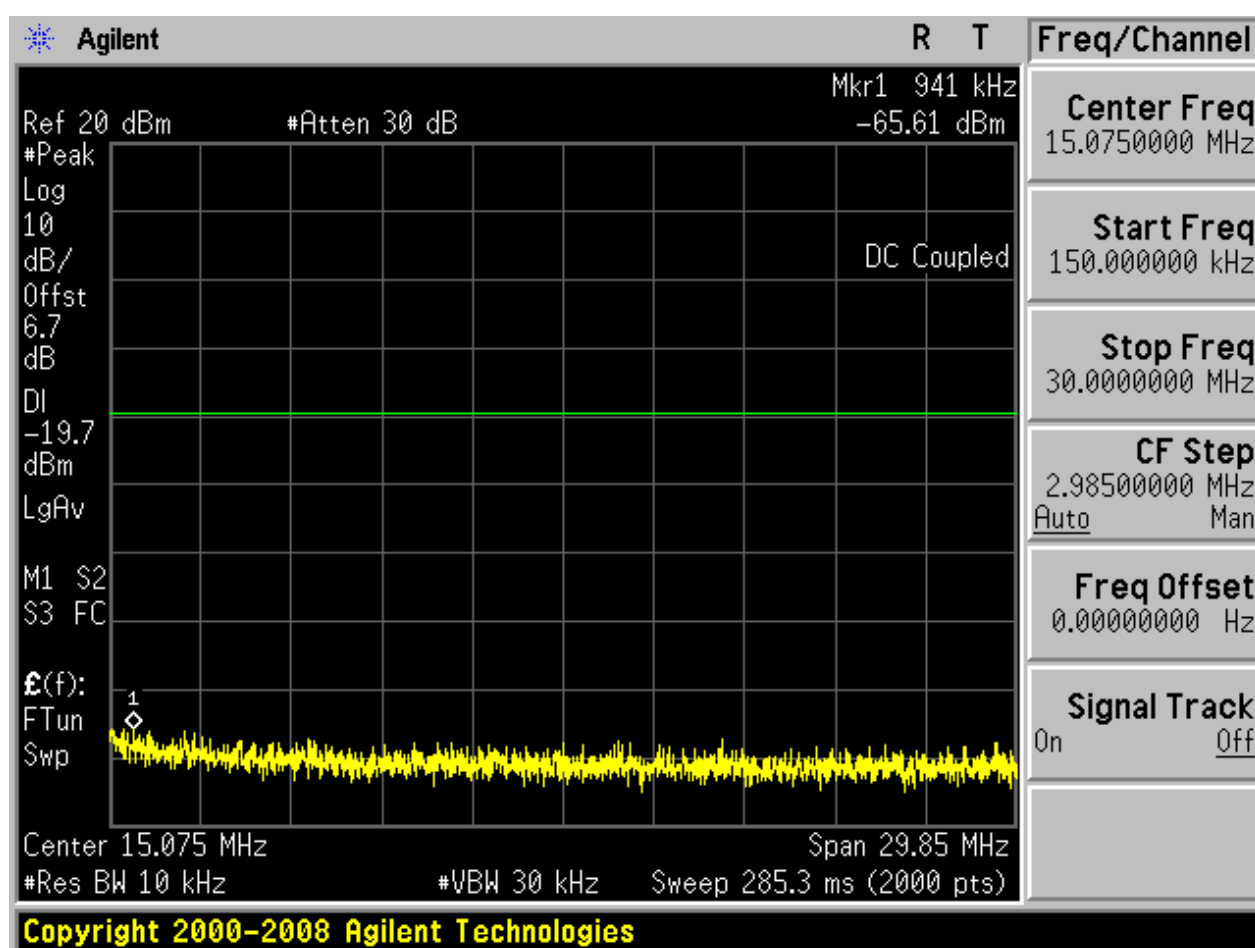
2.2 TM1_DH5_Ch39

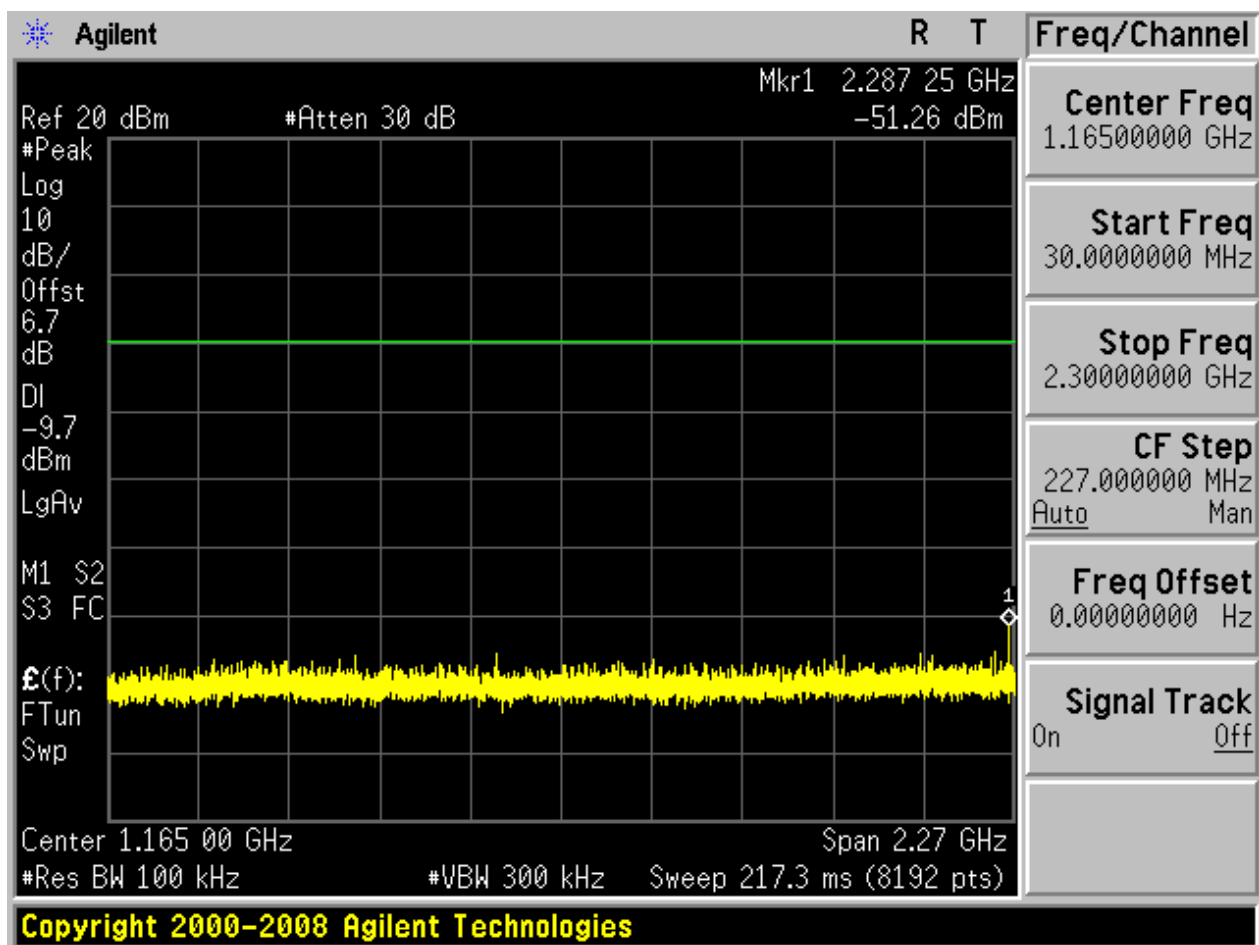
2.2.1 Pref

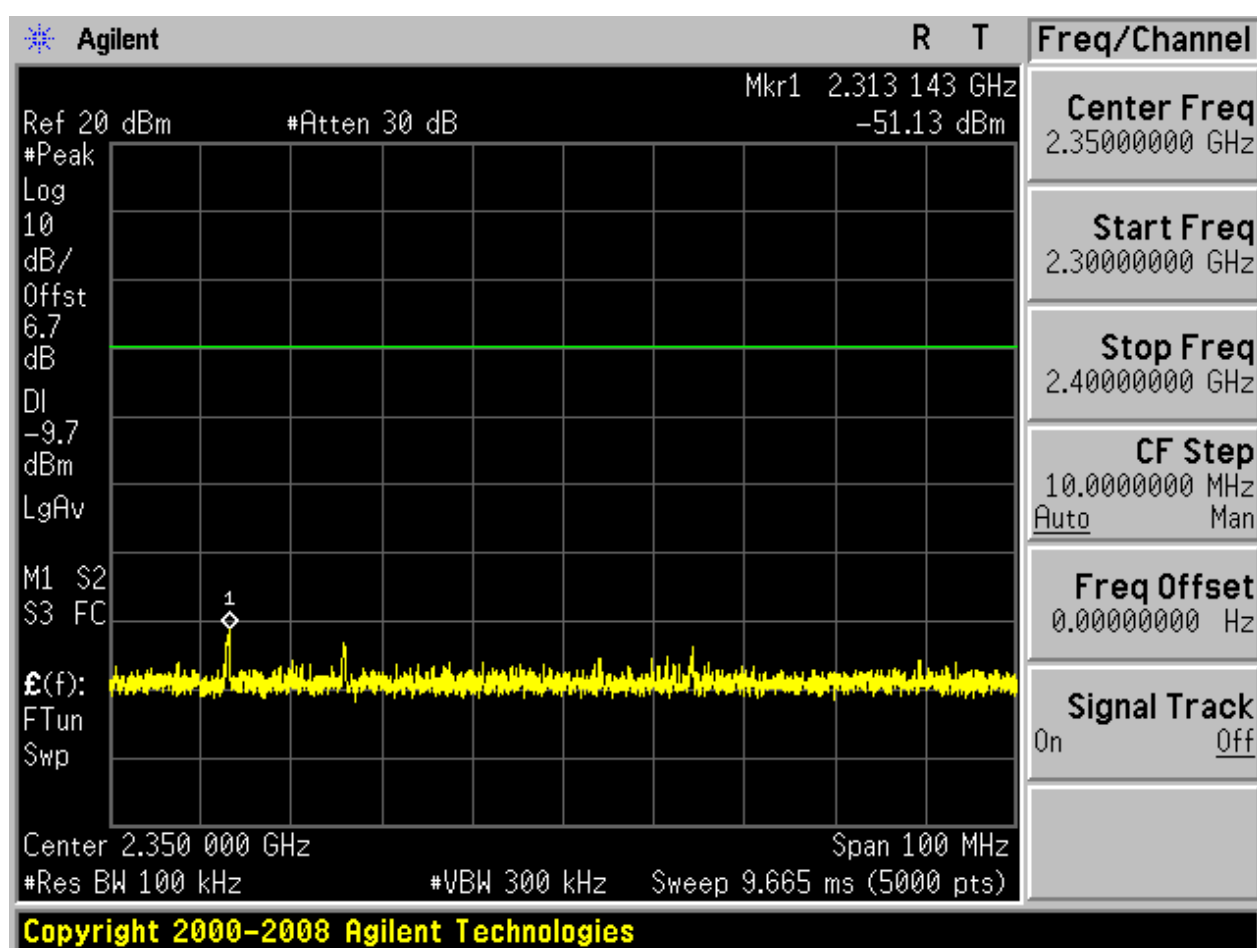


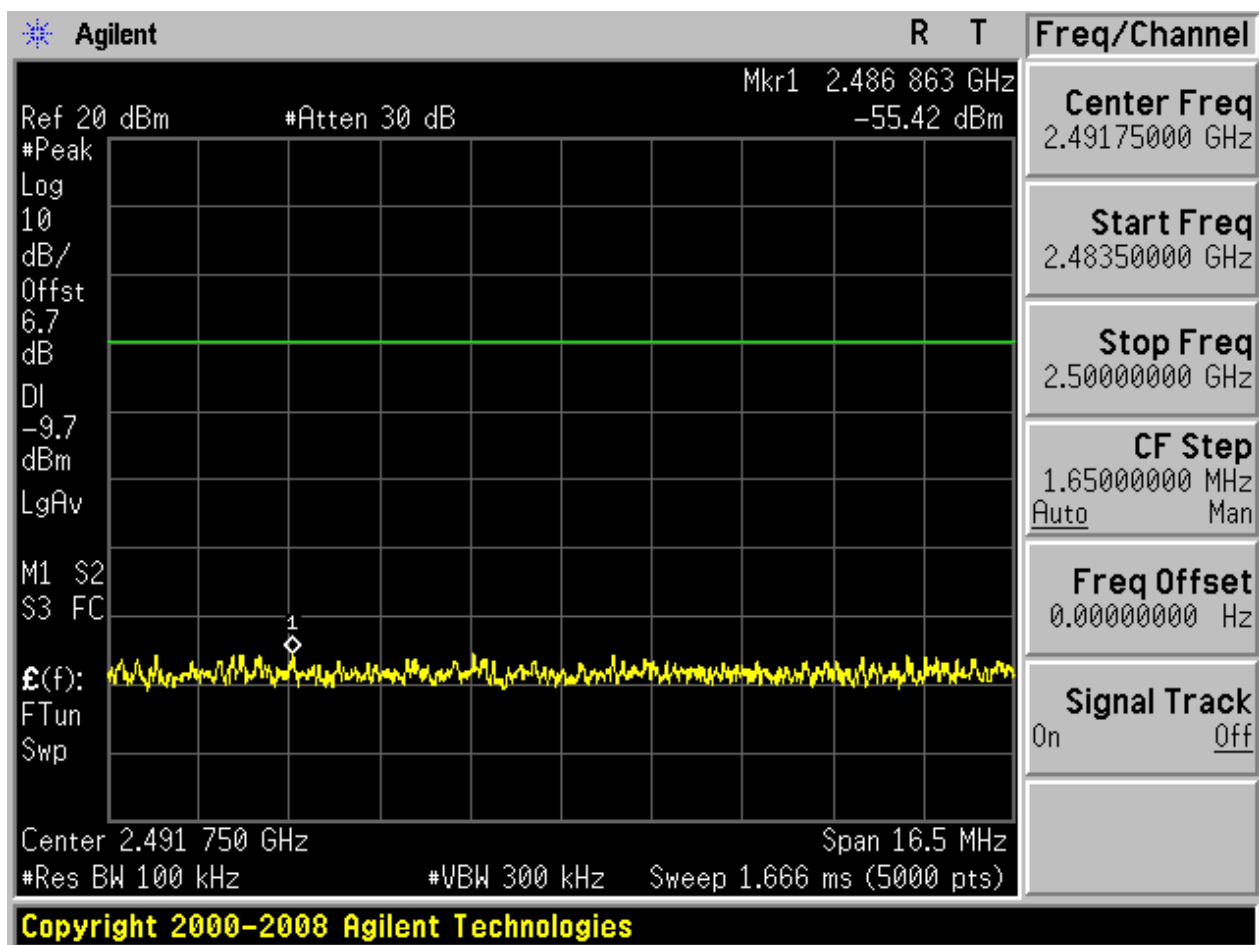
2.2.2 Puw

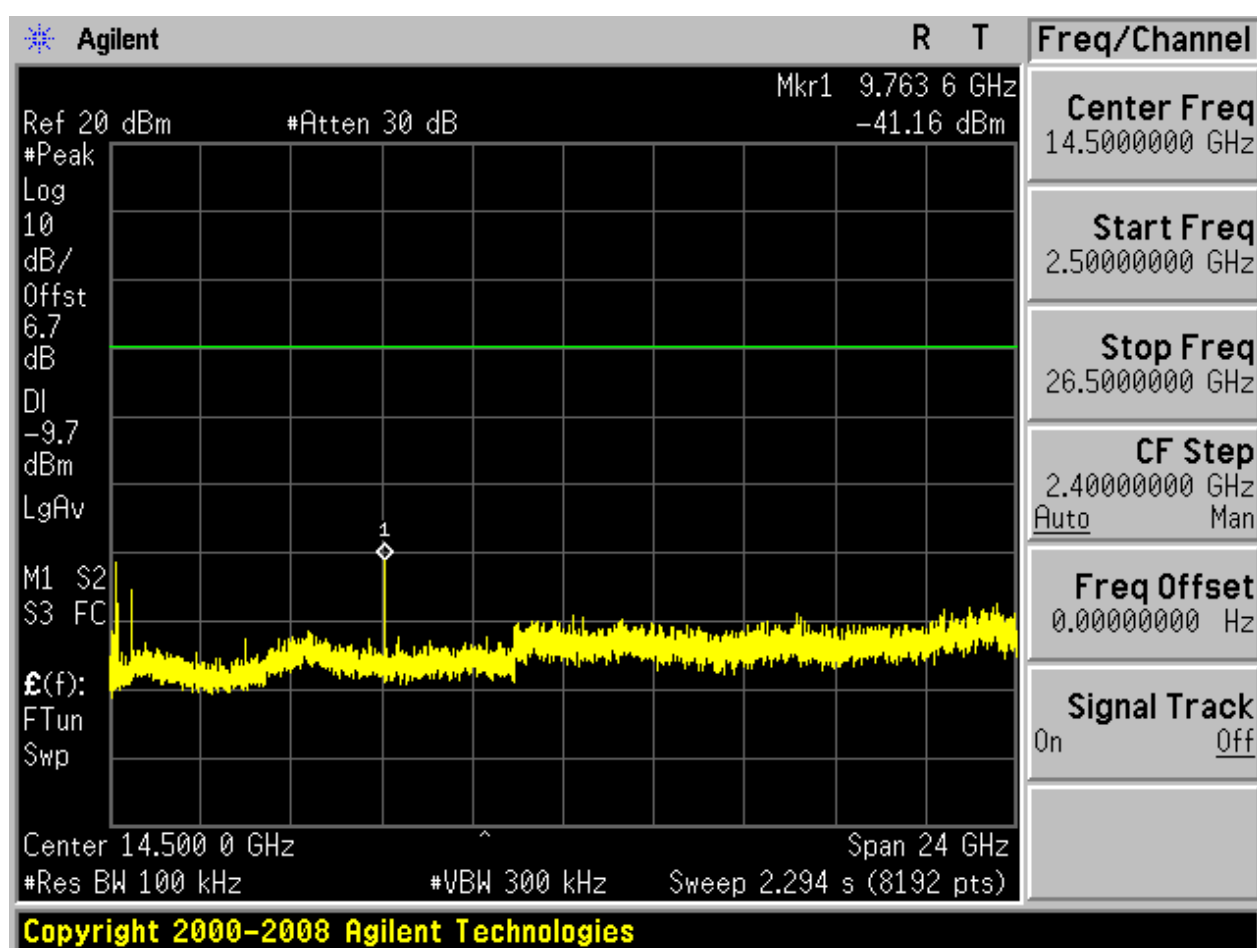






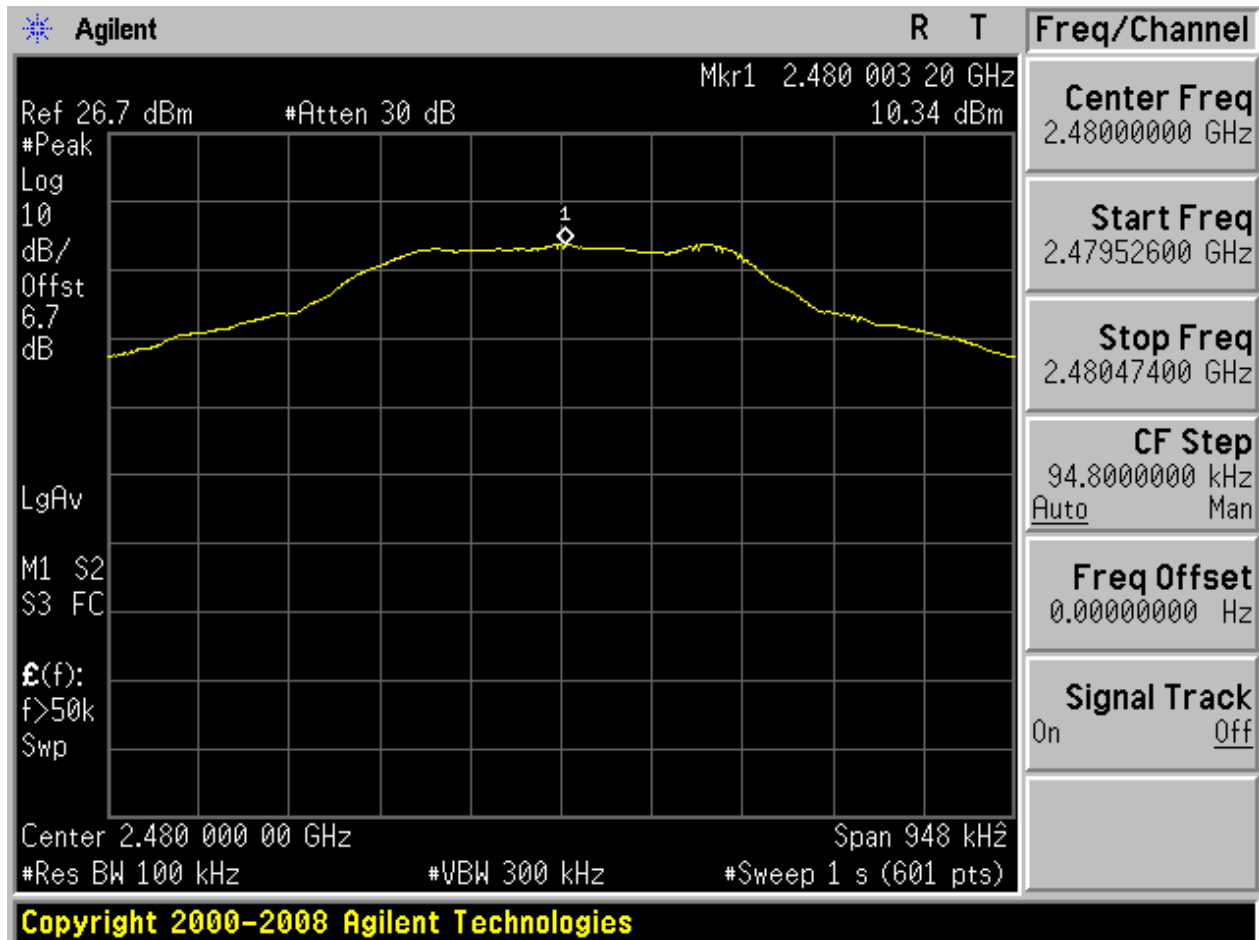




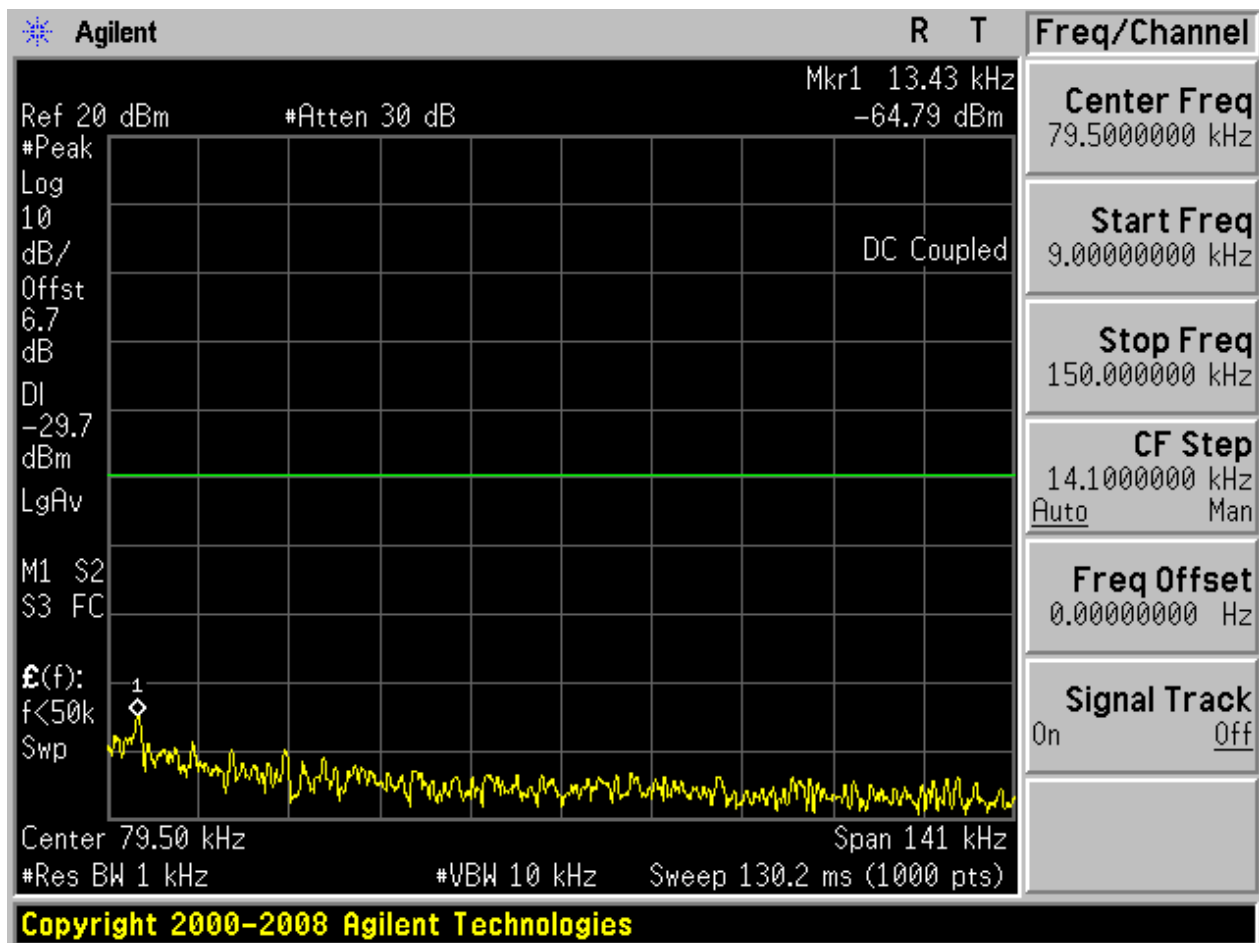


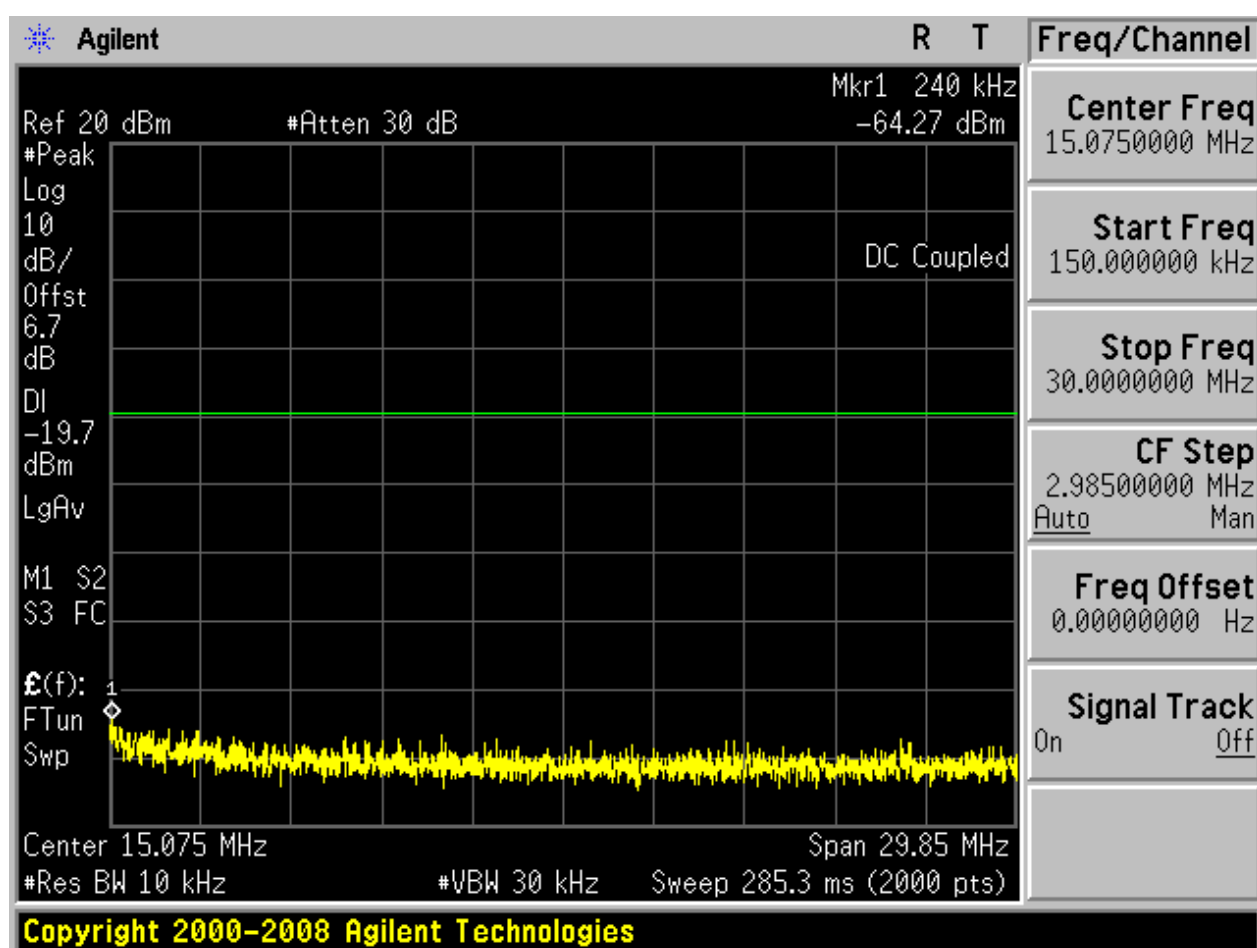
2.3 TM1_DH5_Ch78

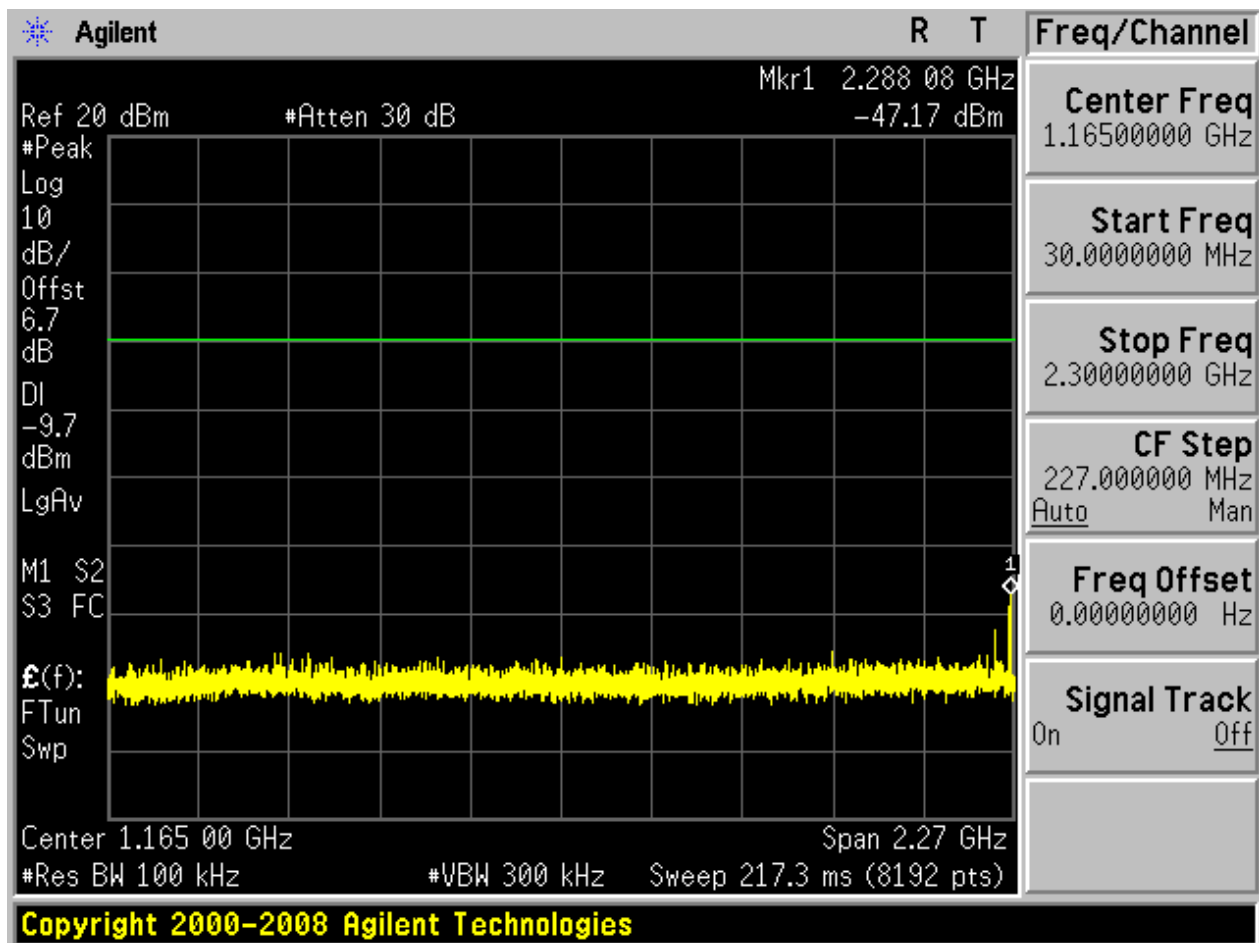
2.3.1 Pref

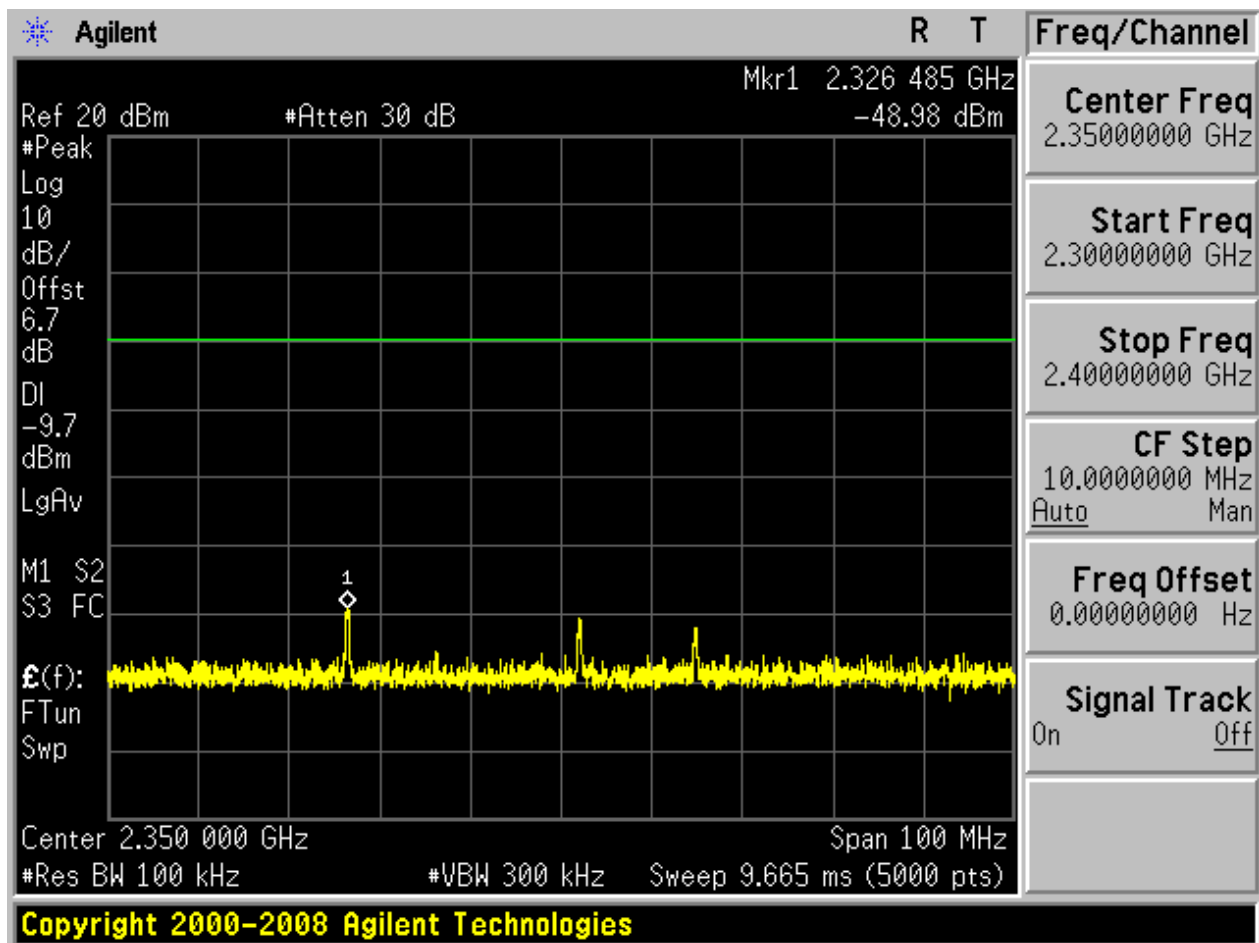


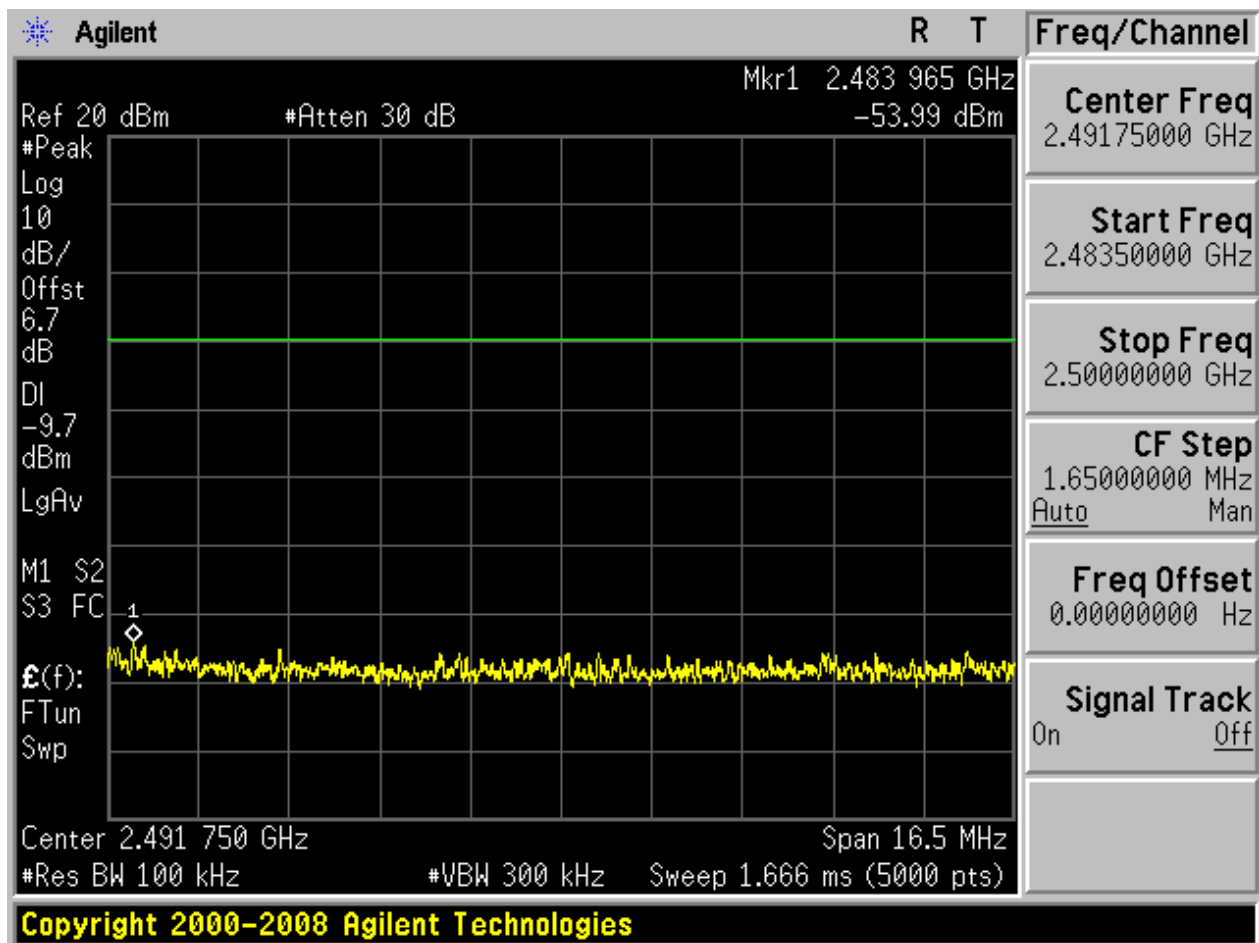
2.3.2 Puw

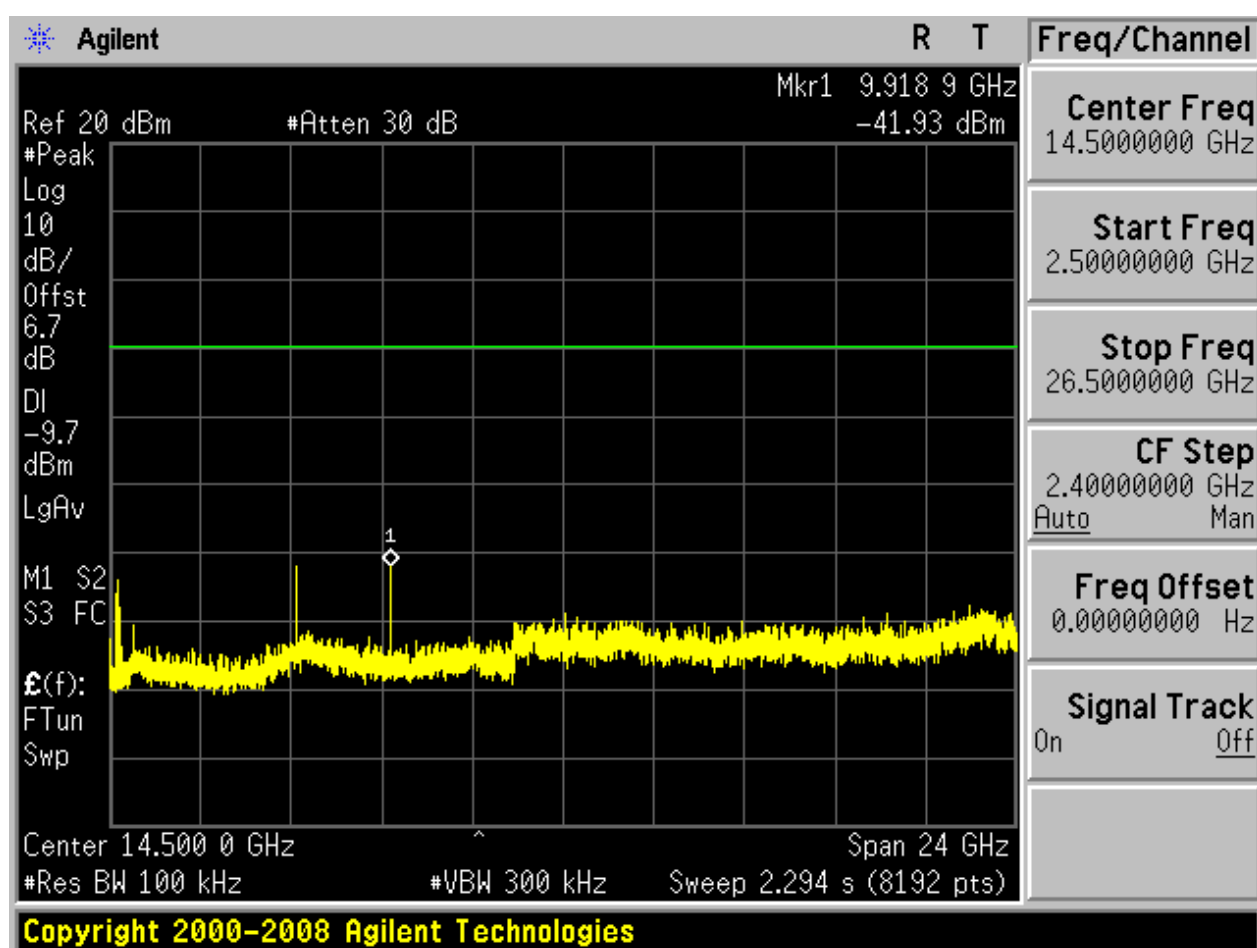








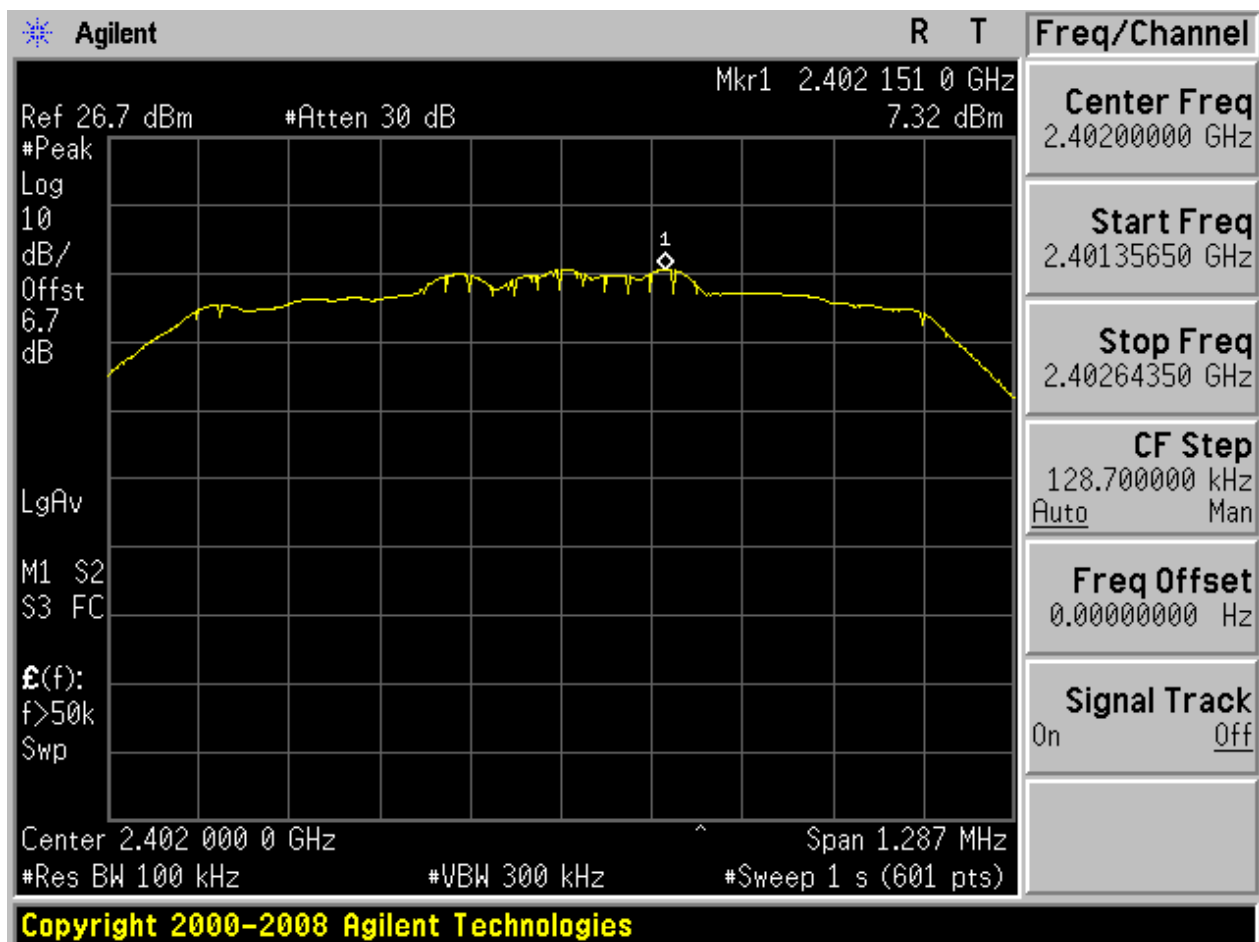




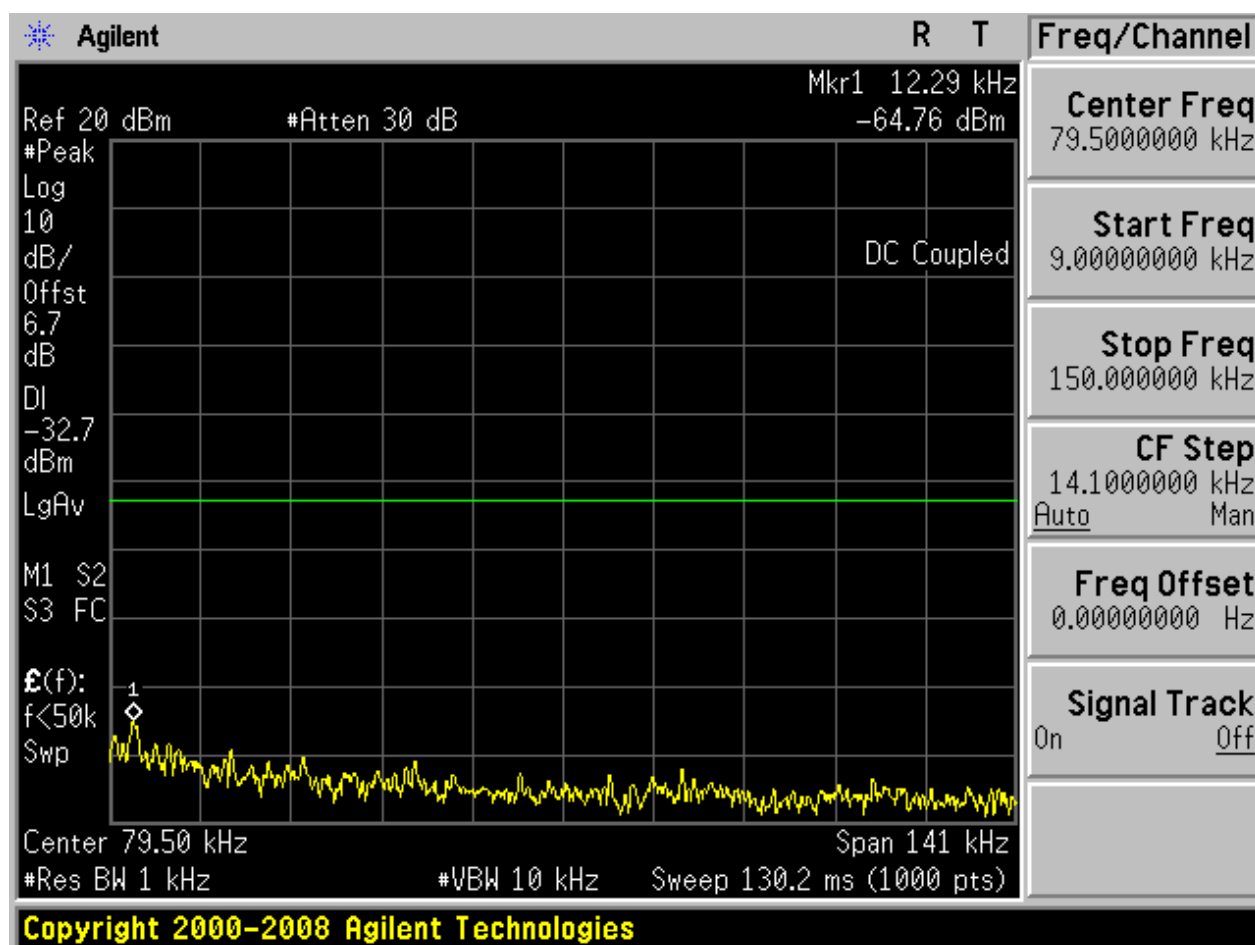


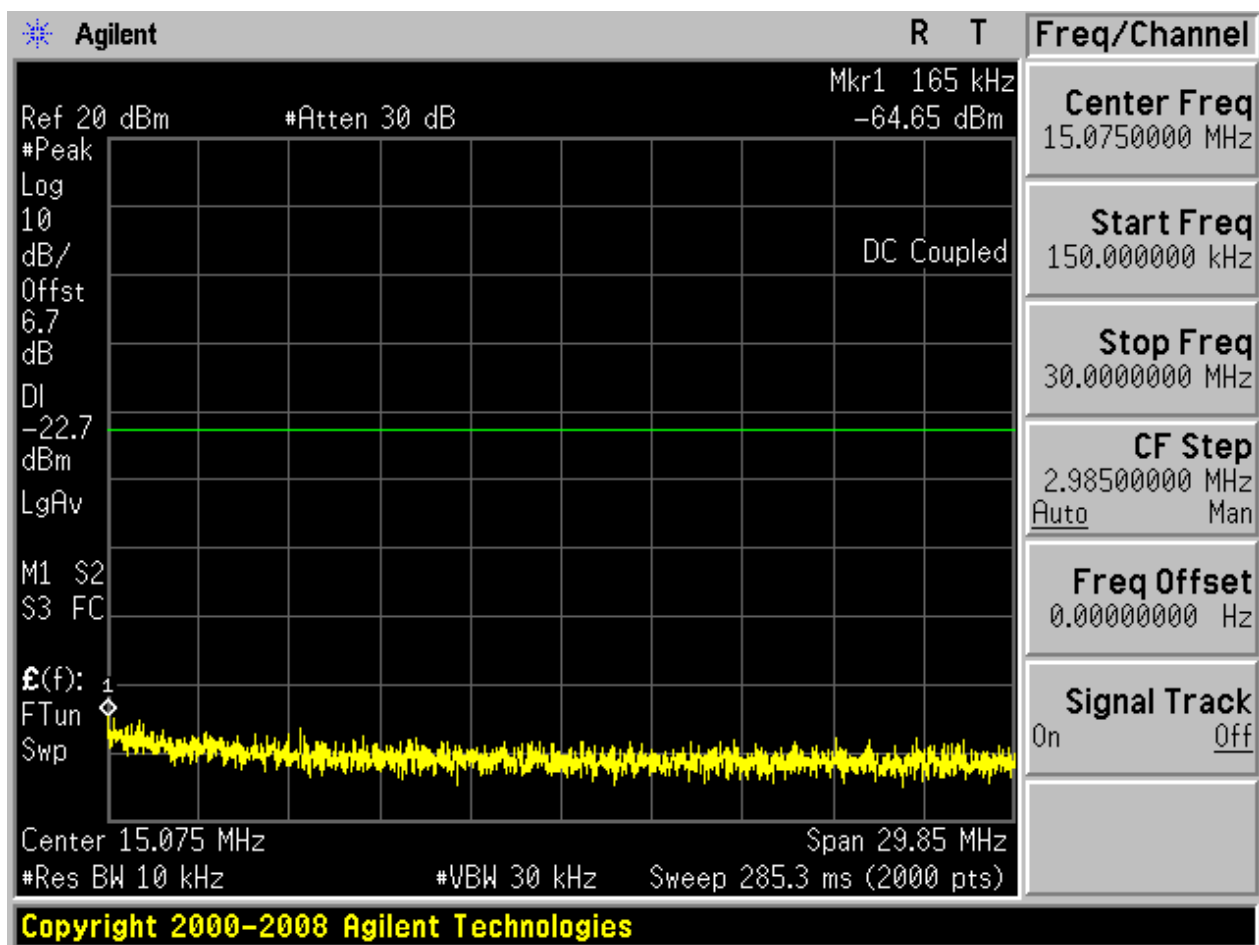
2.4 TM2_2DH5_Ch0

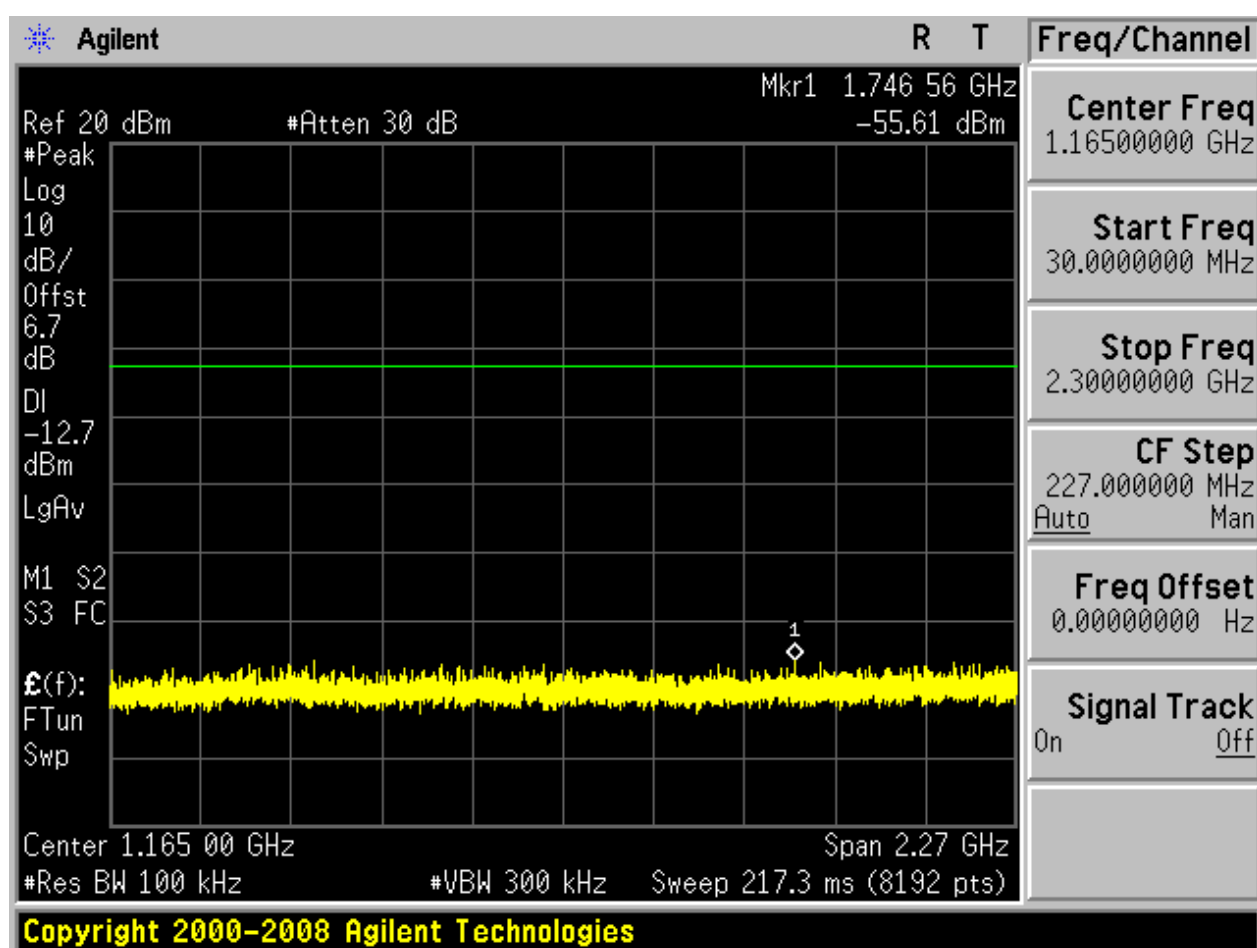
2.4.1 Pref

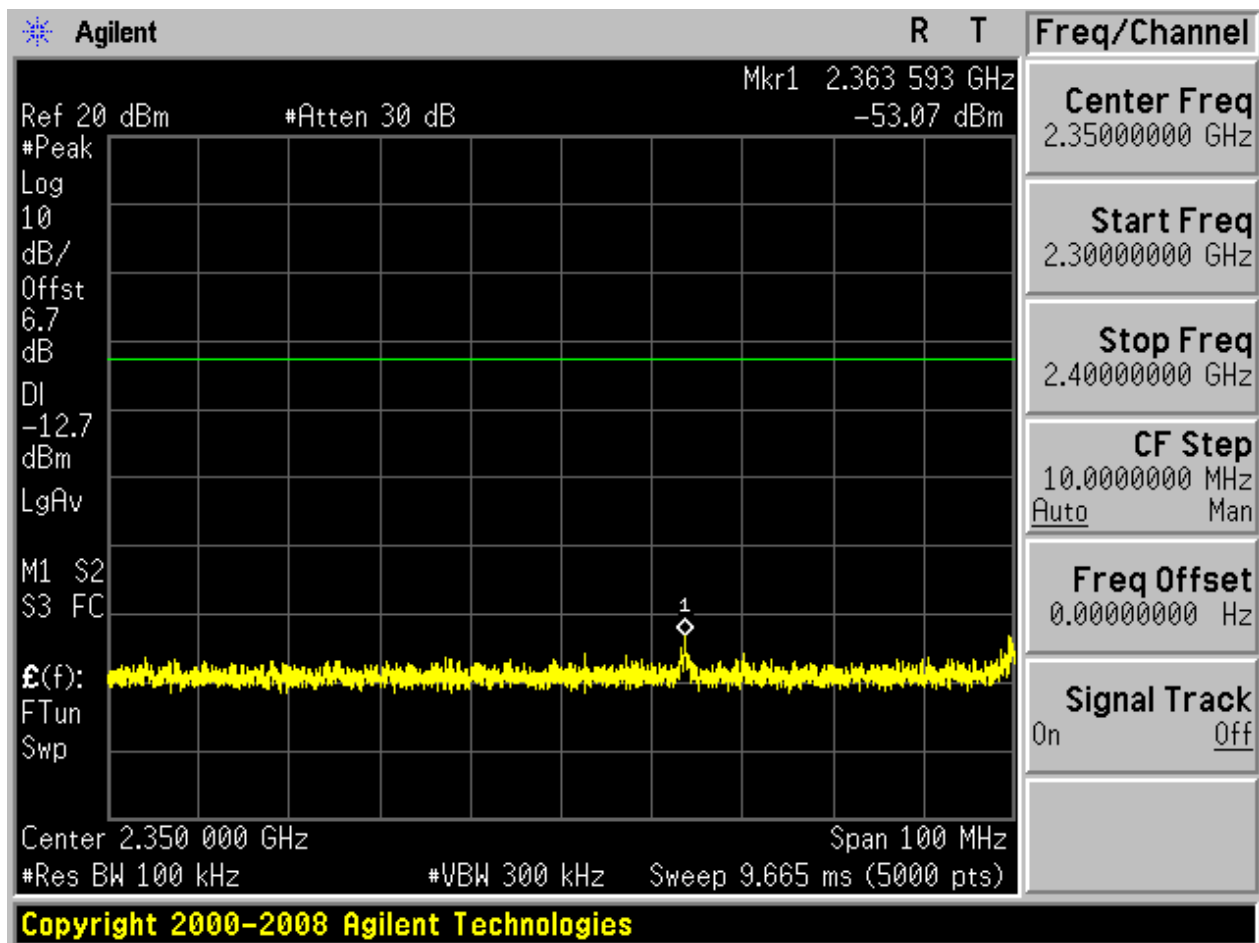


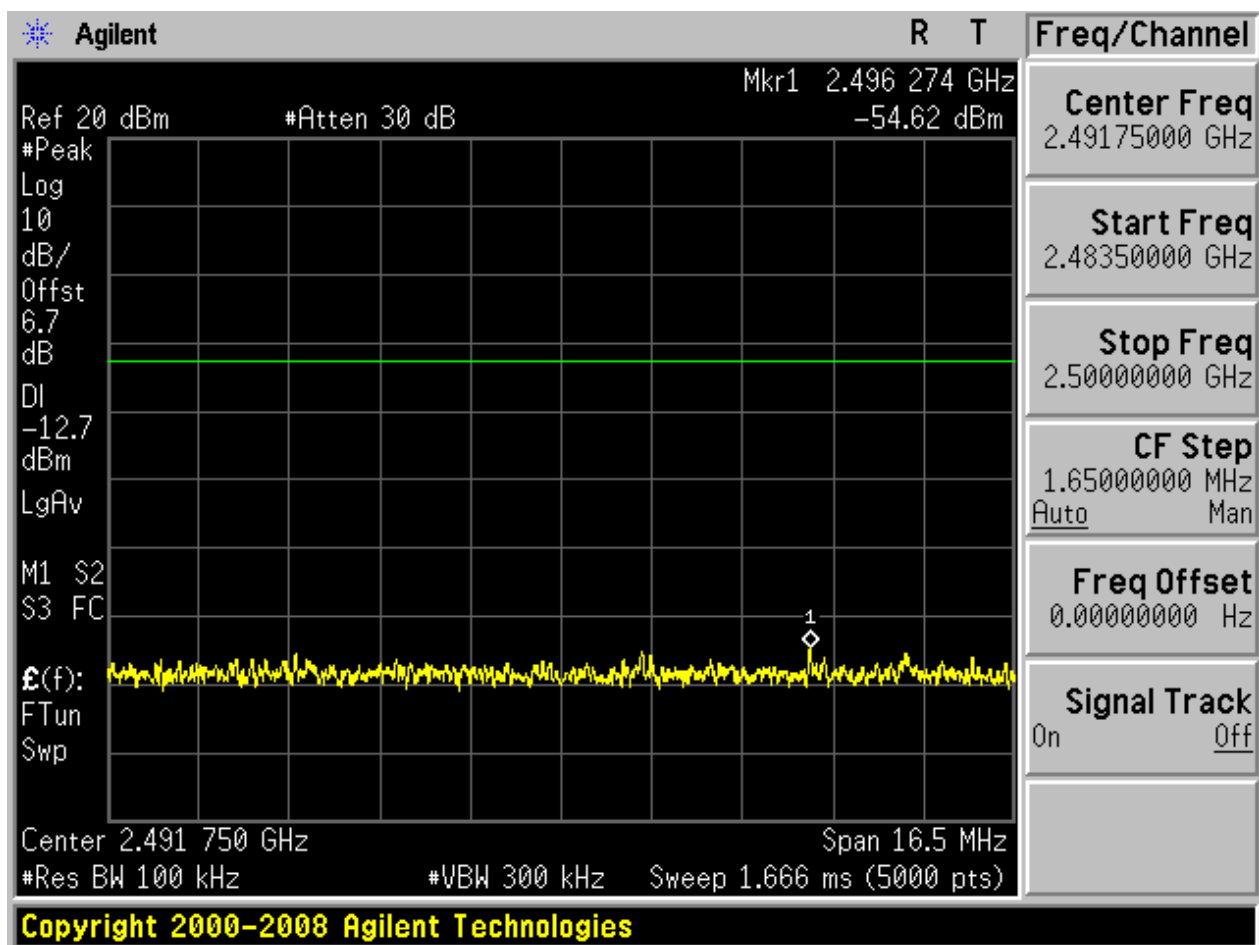
2.4.2 Puw

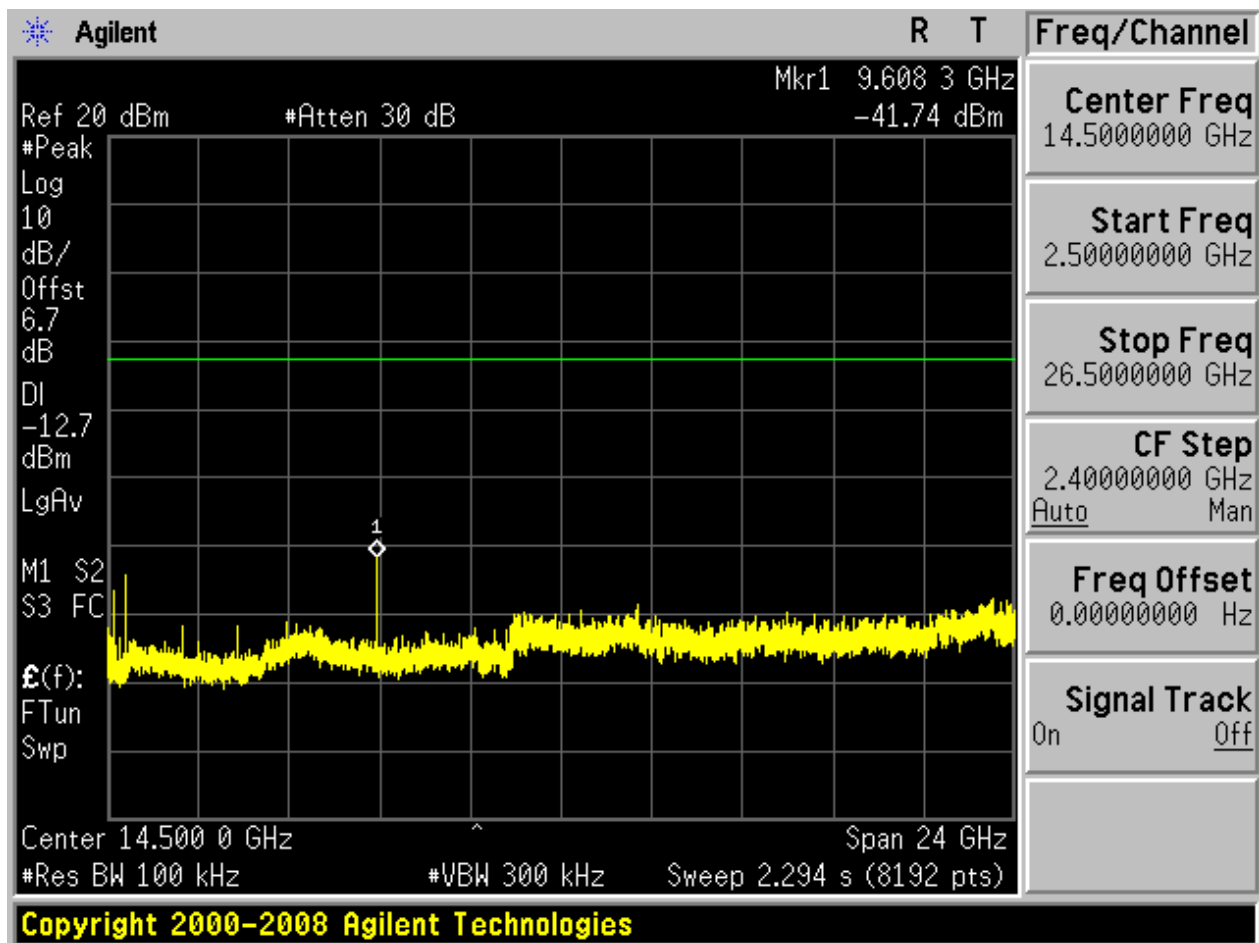






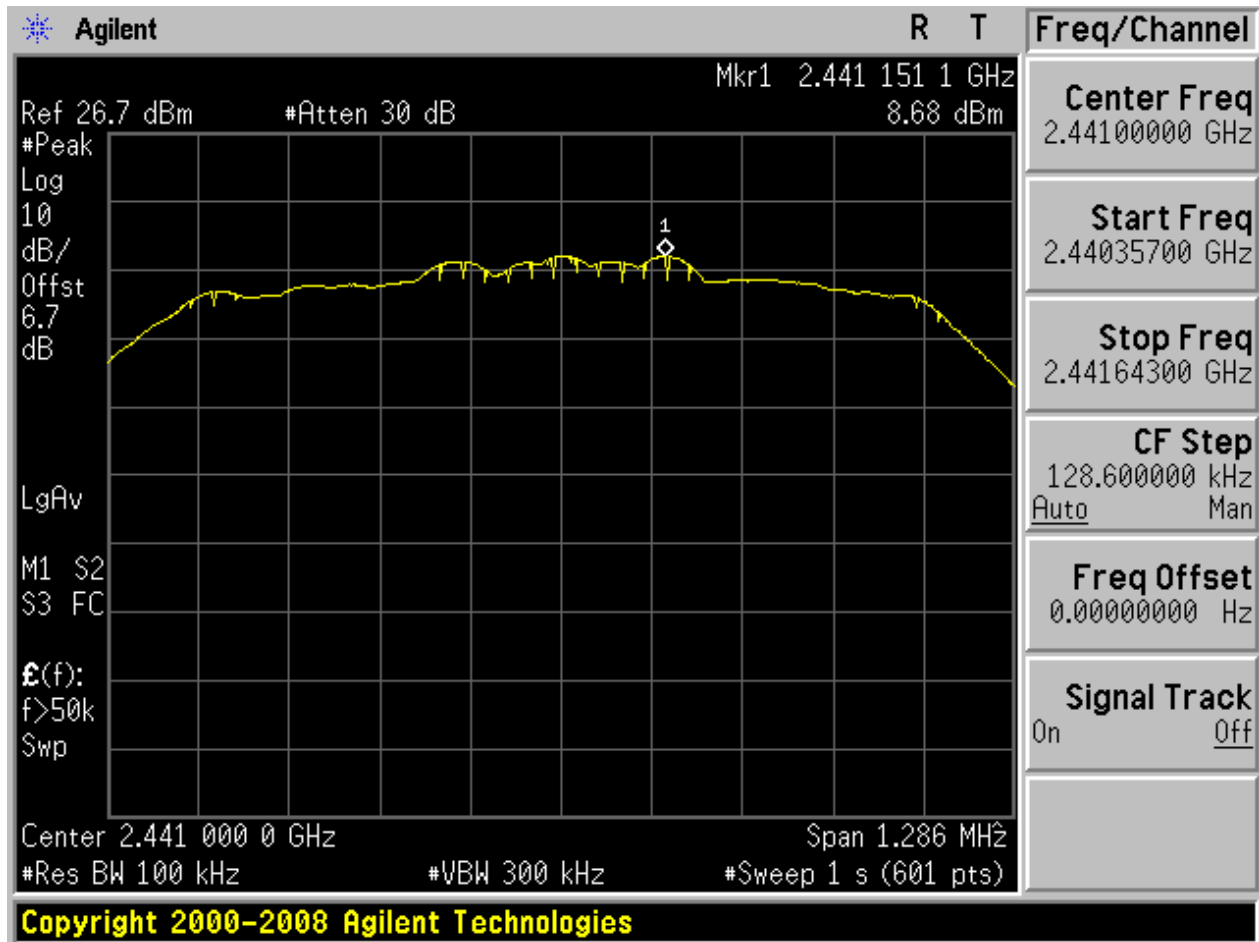




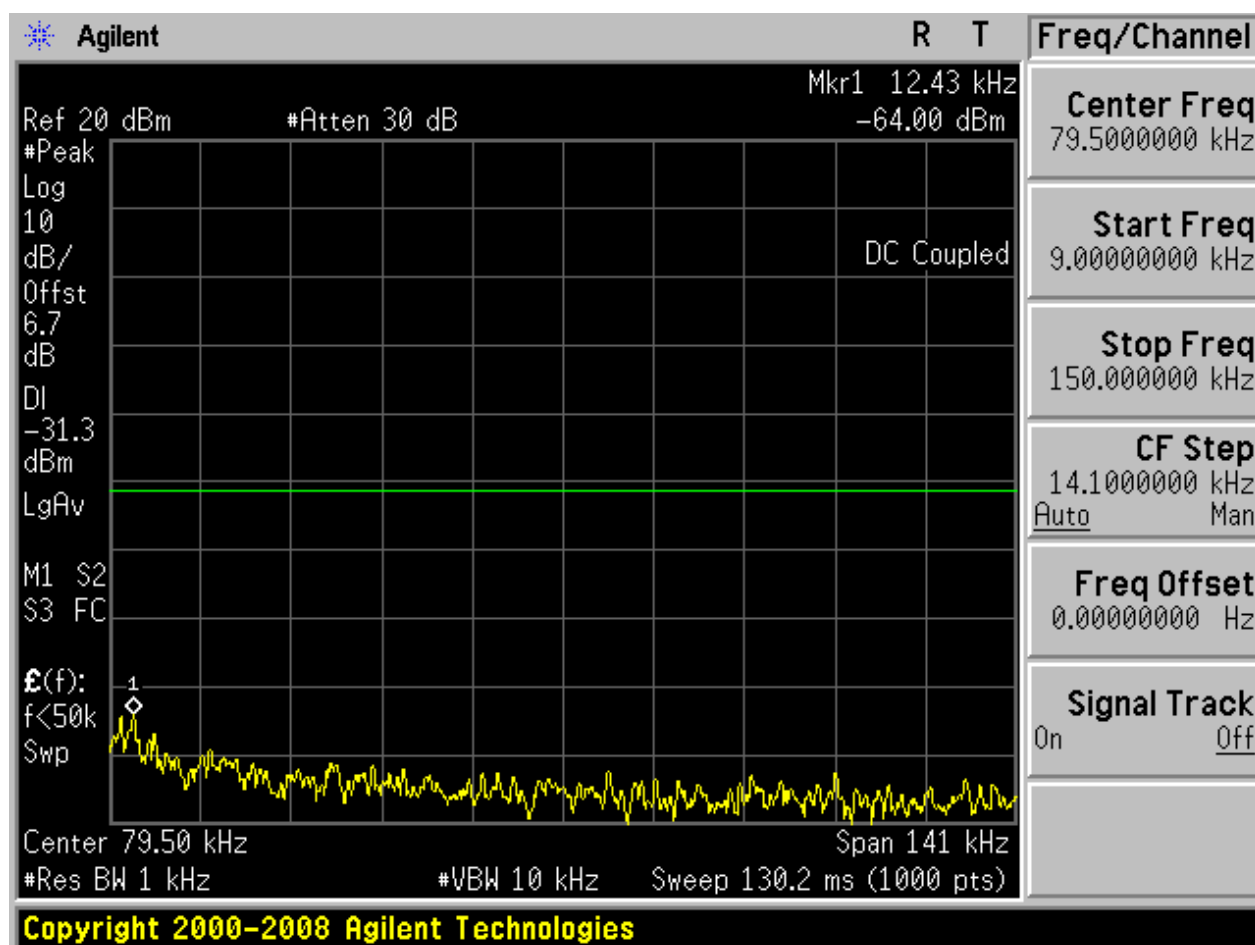


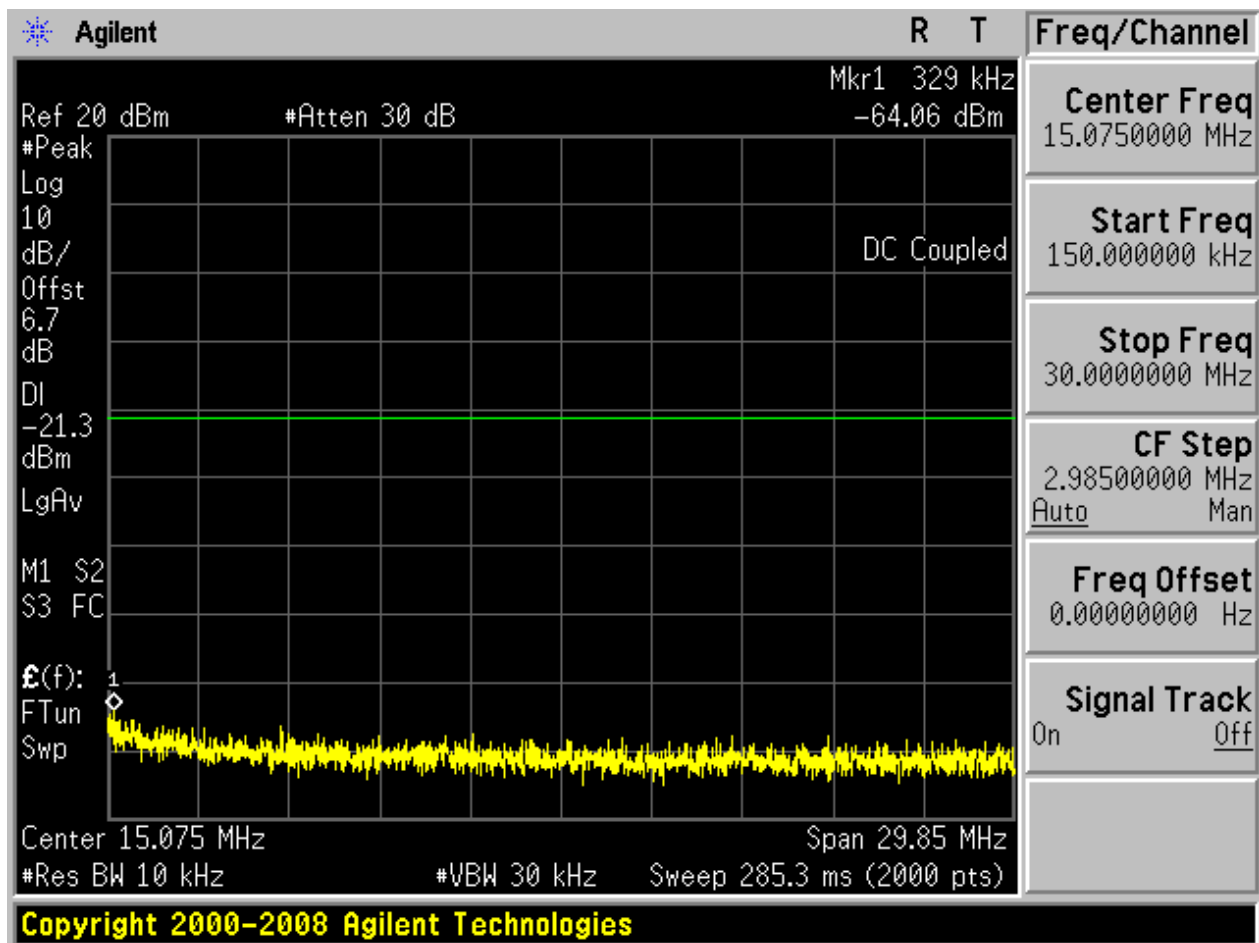
2.5 TM2_2DH5_Ch39

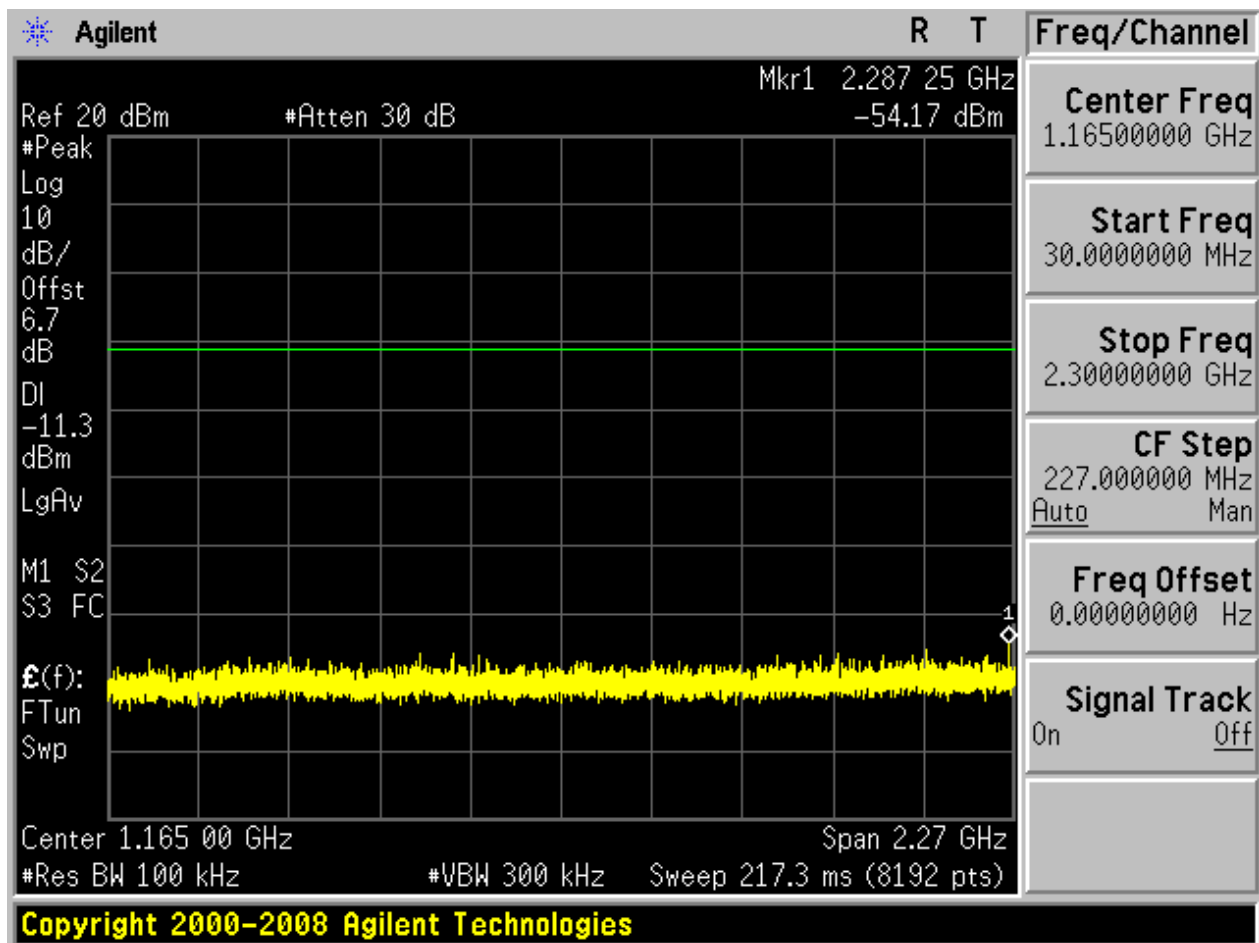
2.5.1 Pref

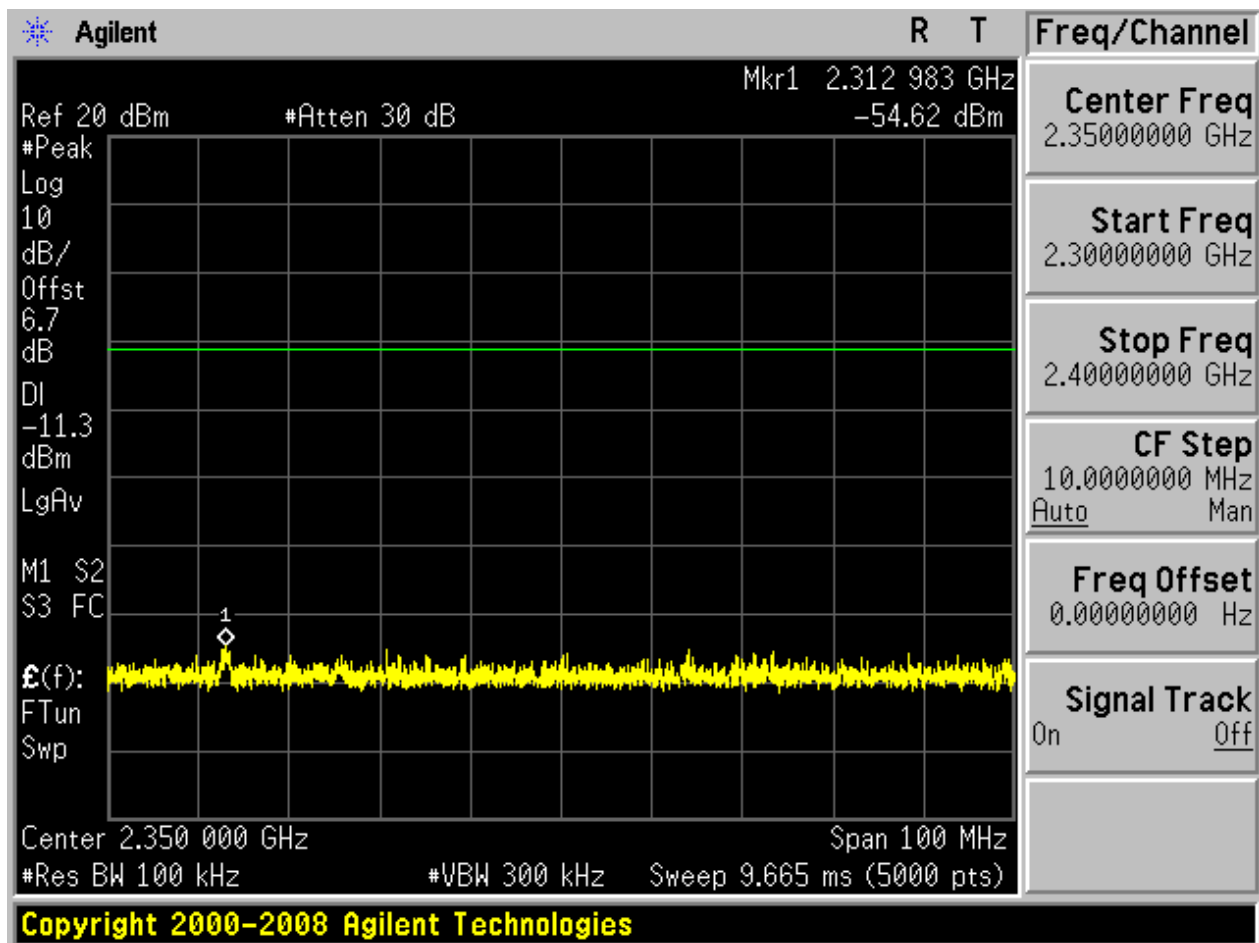


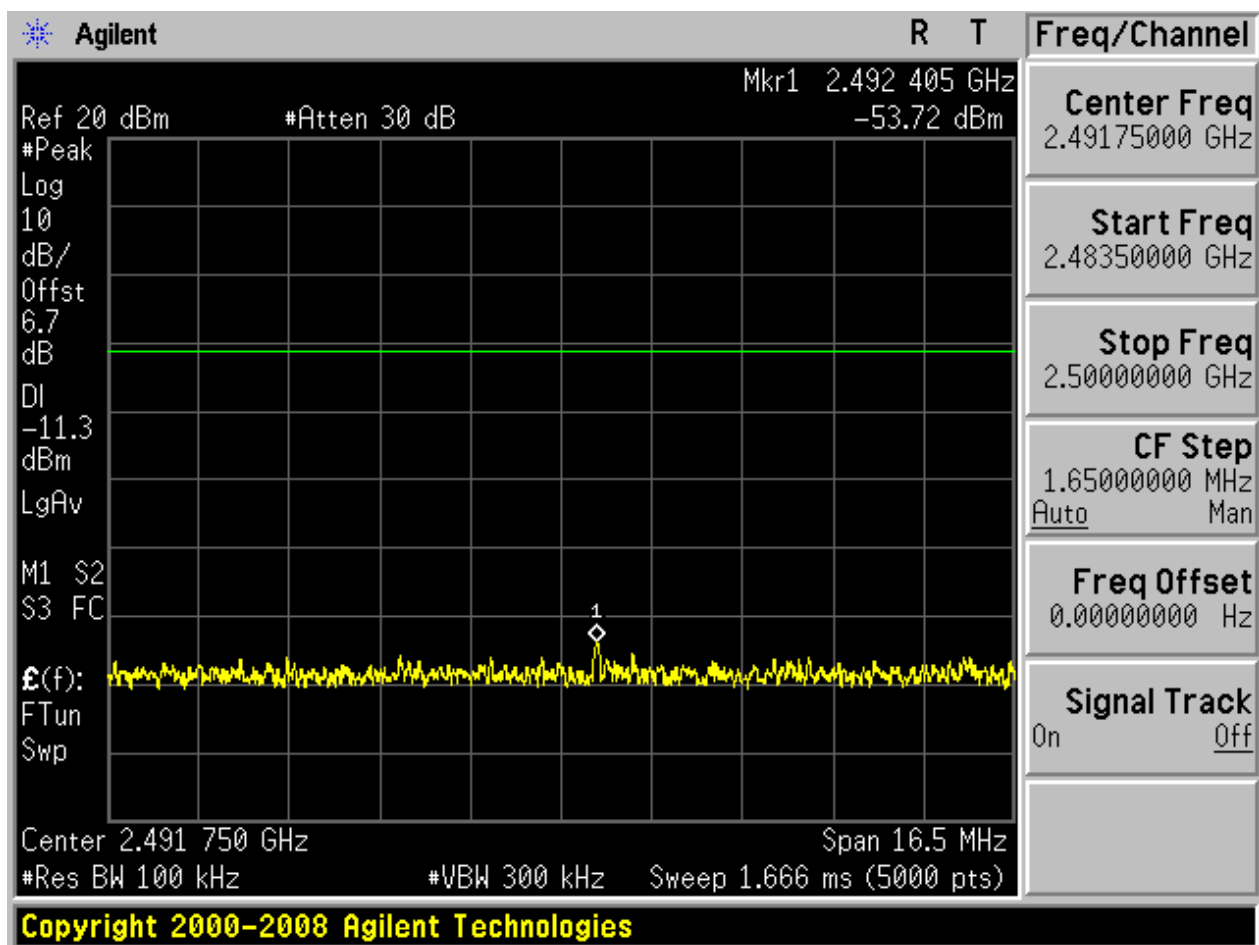
2.5.2 Puw

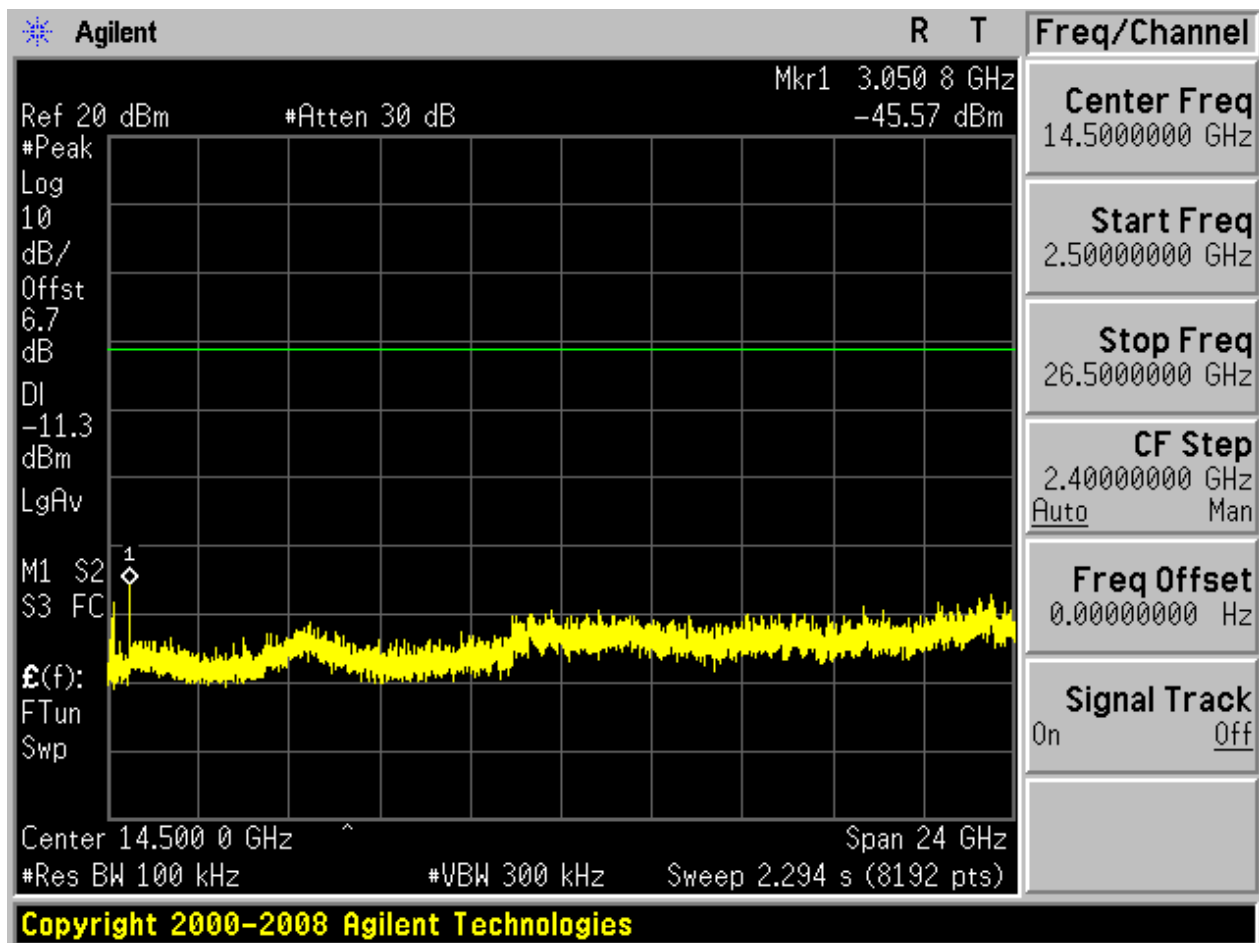








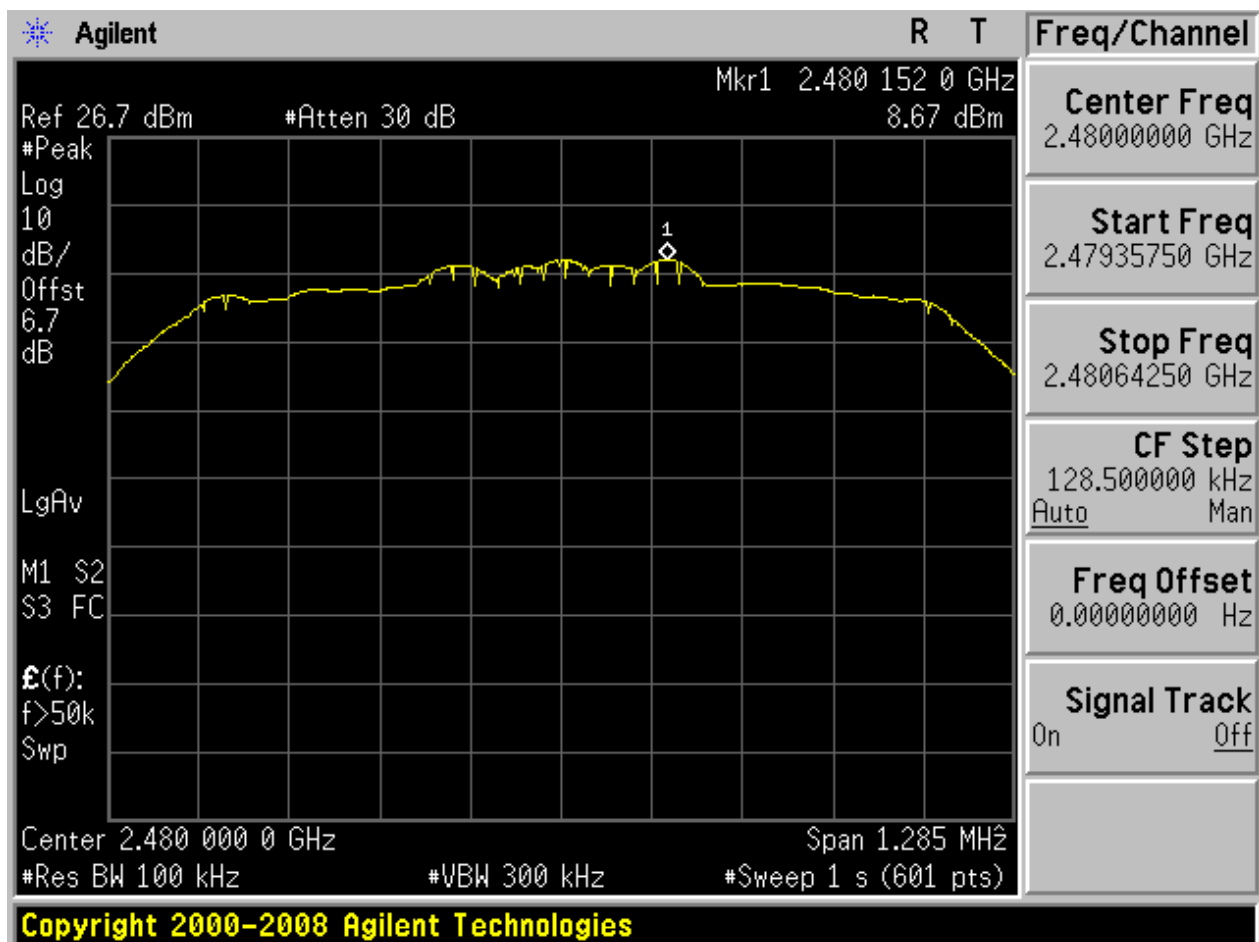




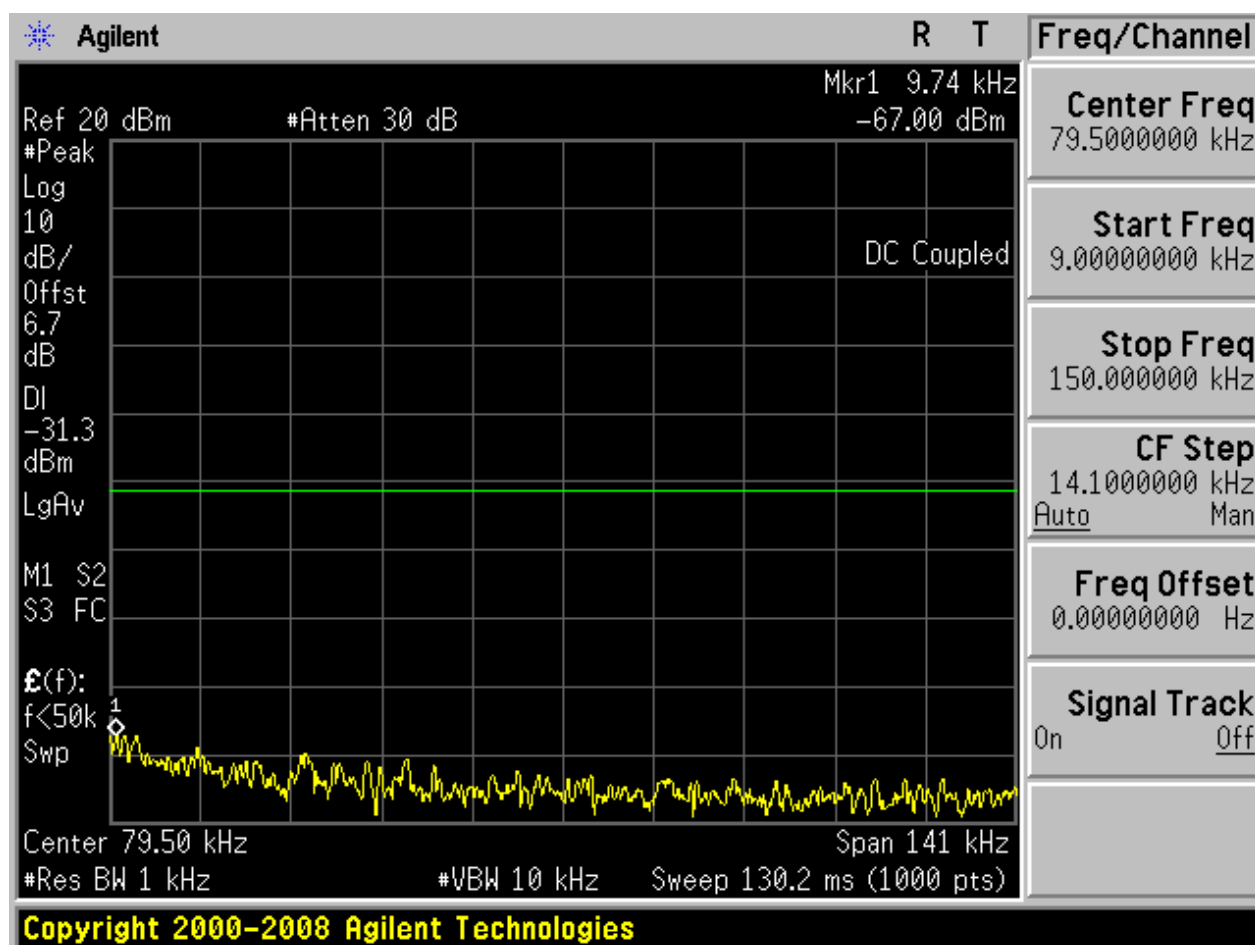


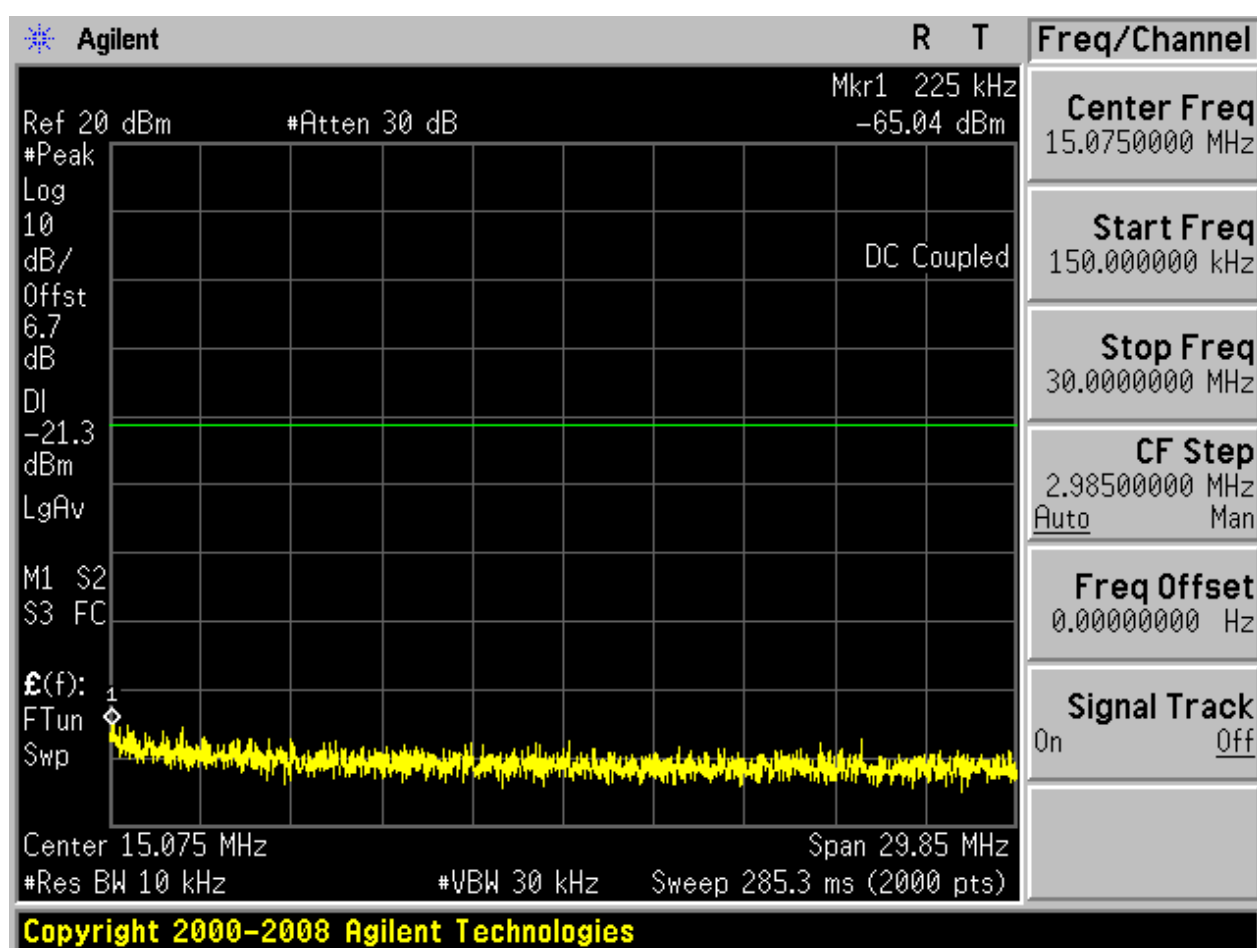
2.6 TM2_2DH5_Ch78

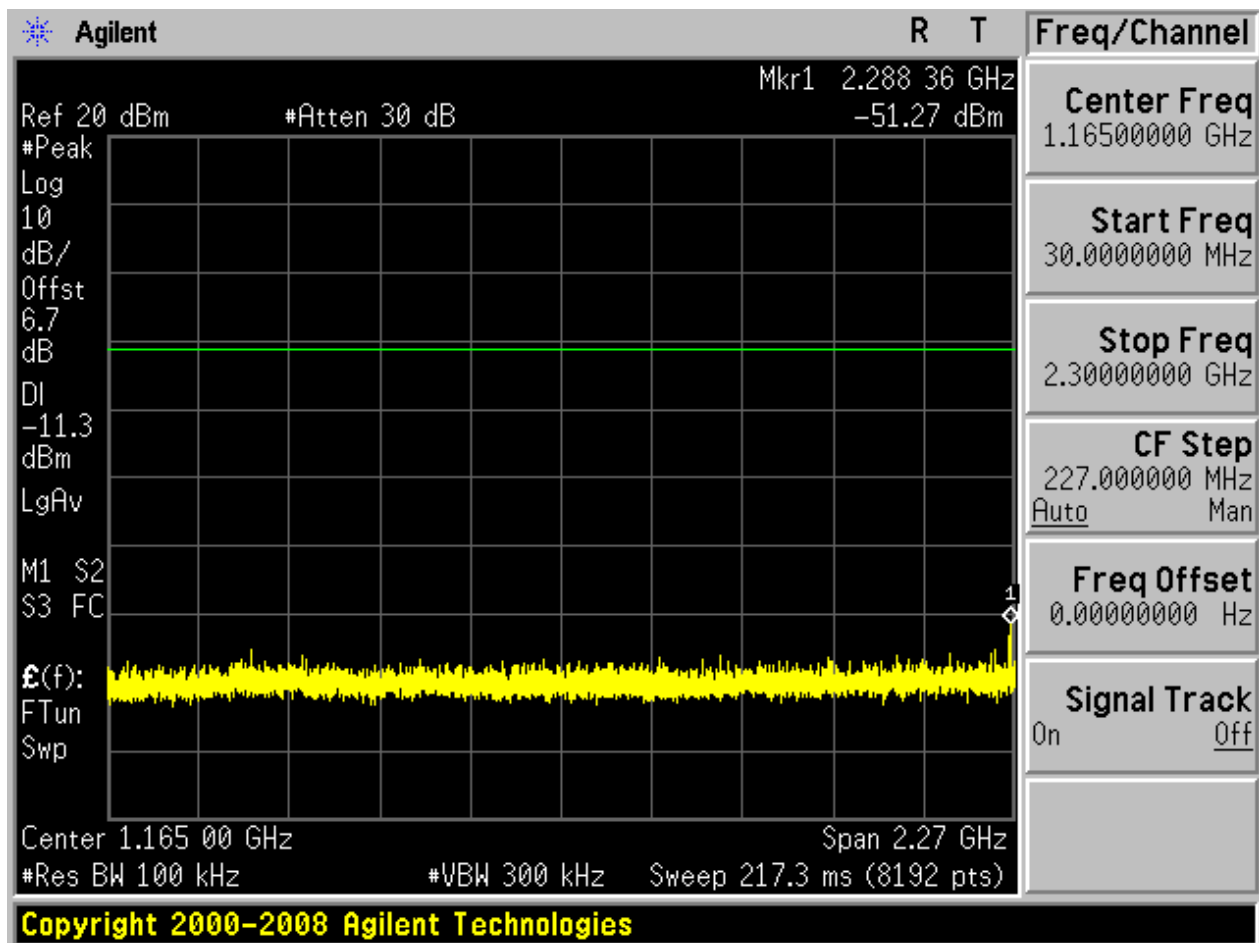
2.6.1 Pref

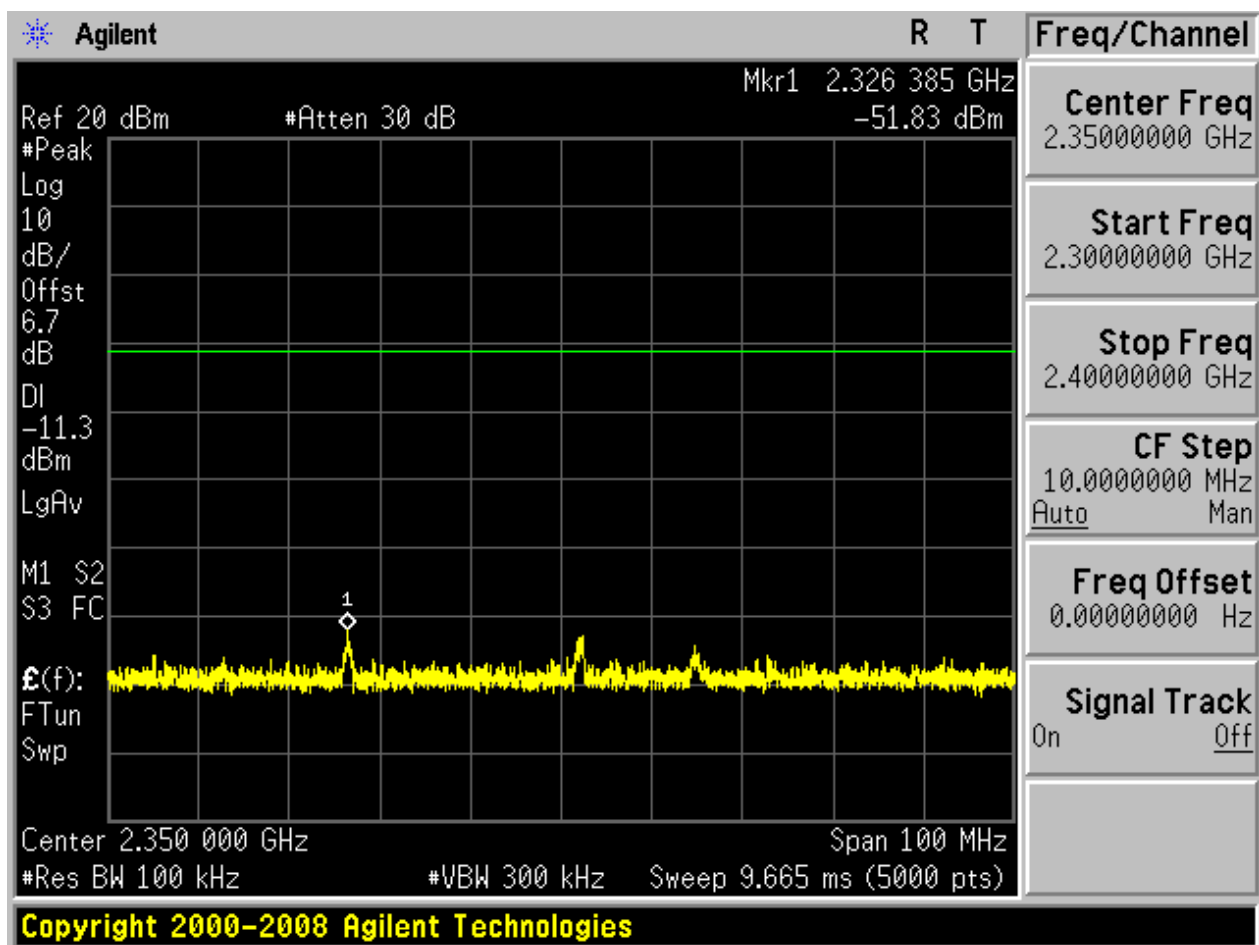


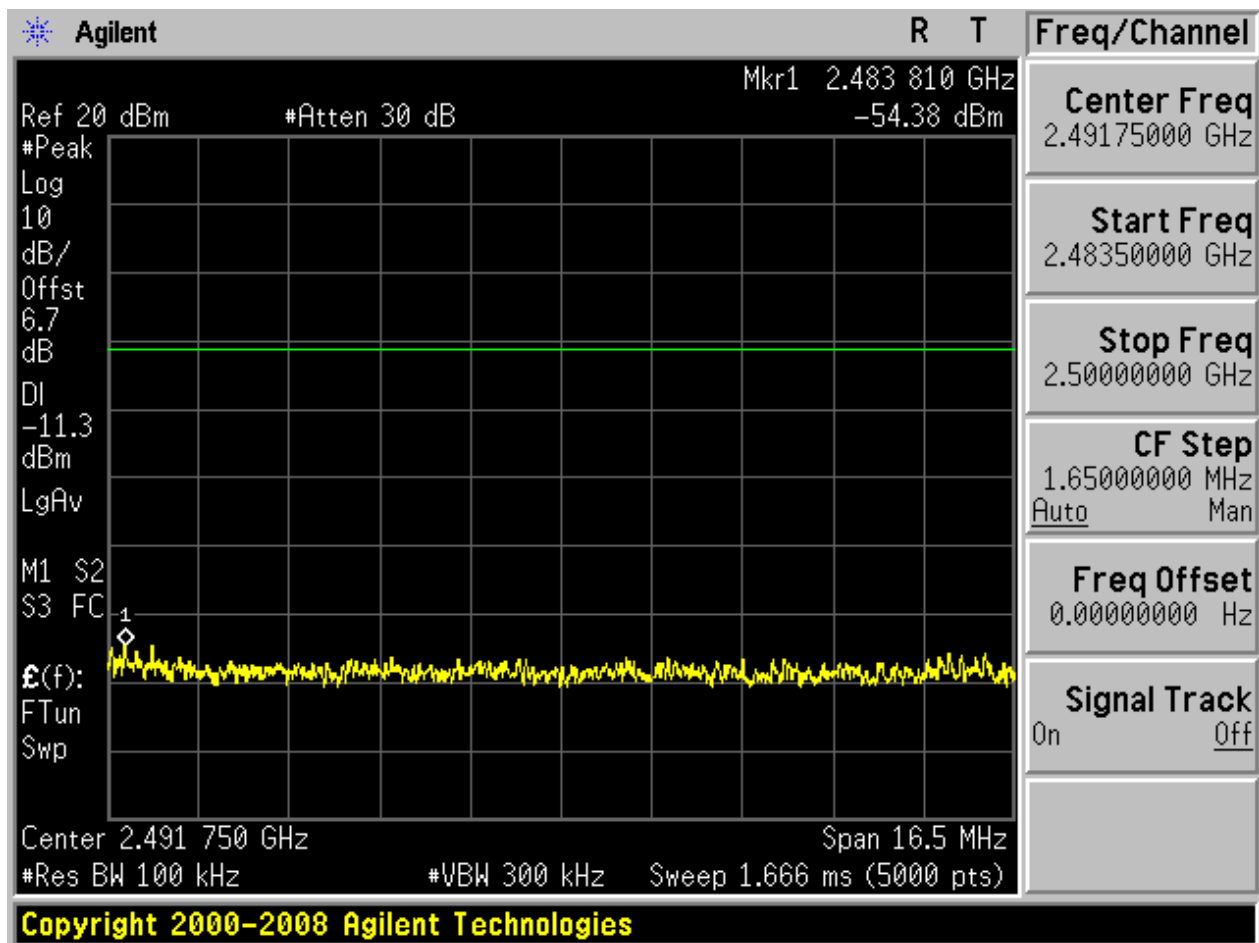
2.6.2 Puw

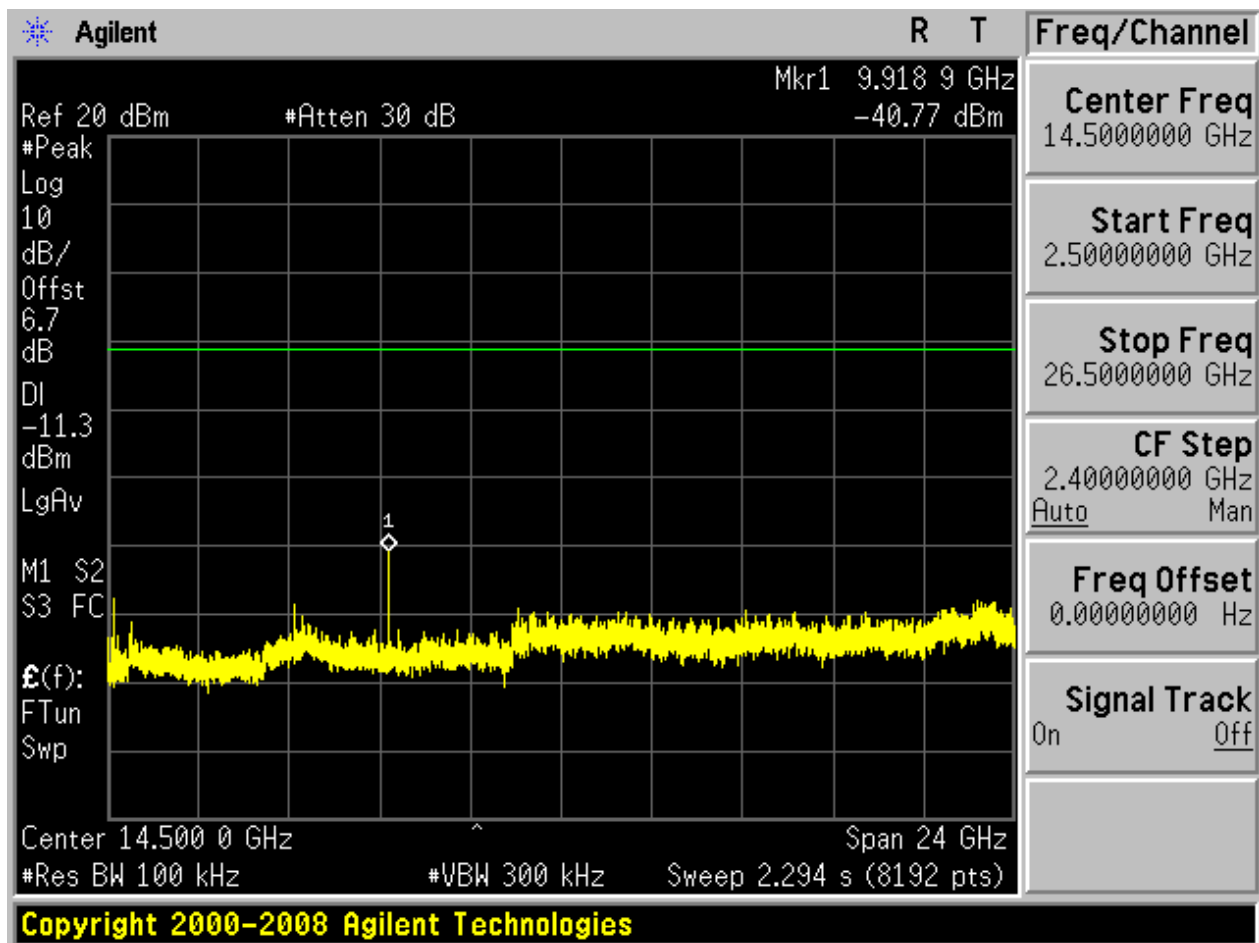








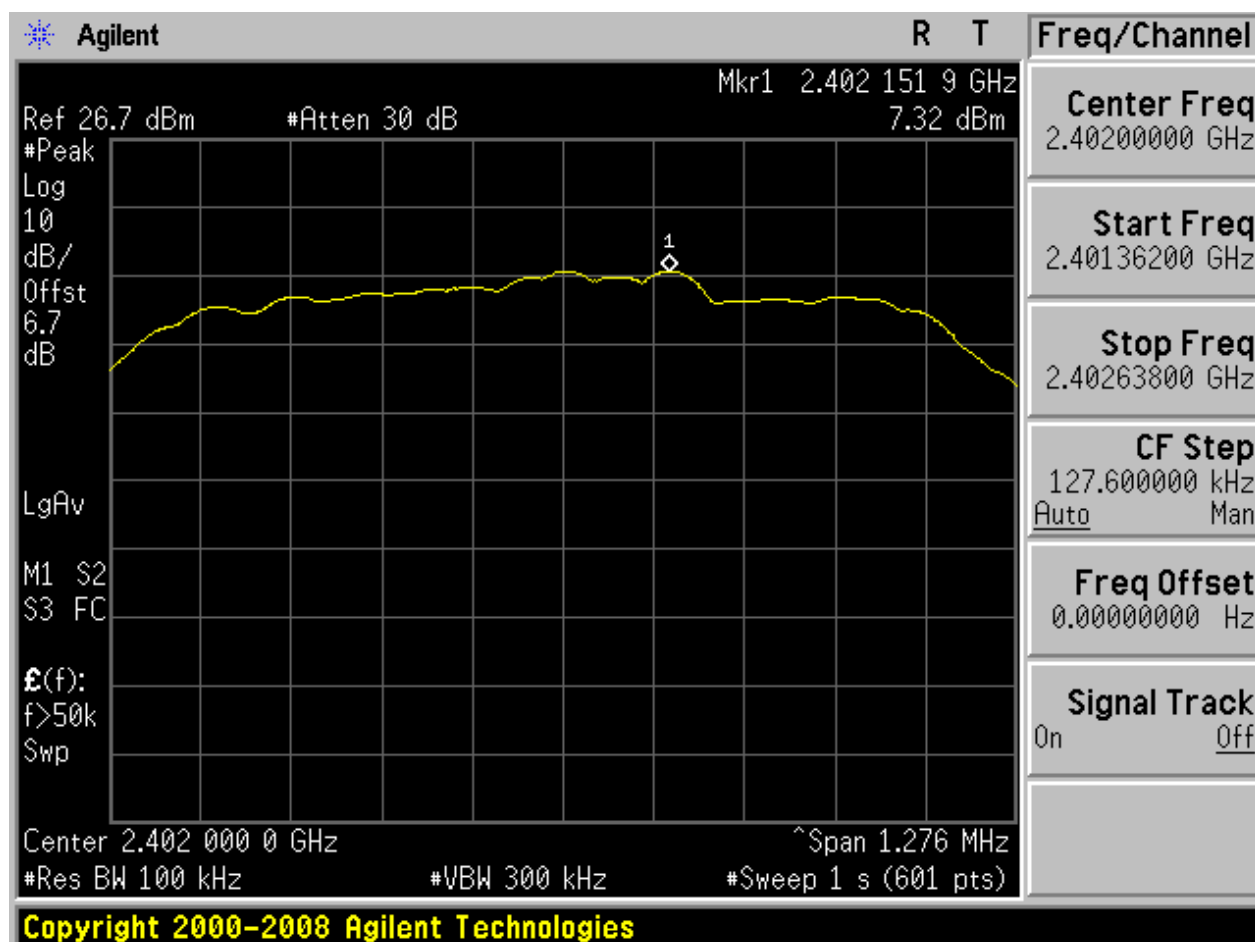




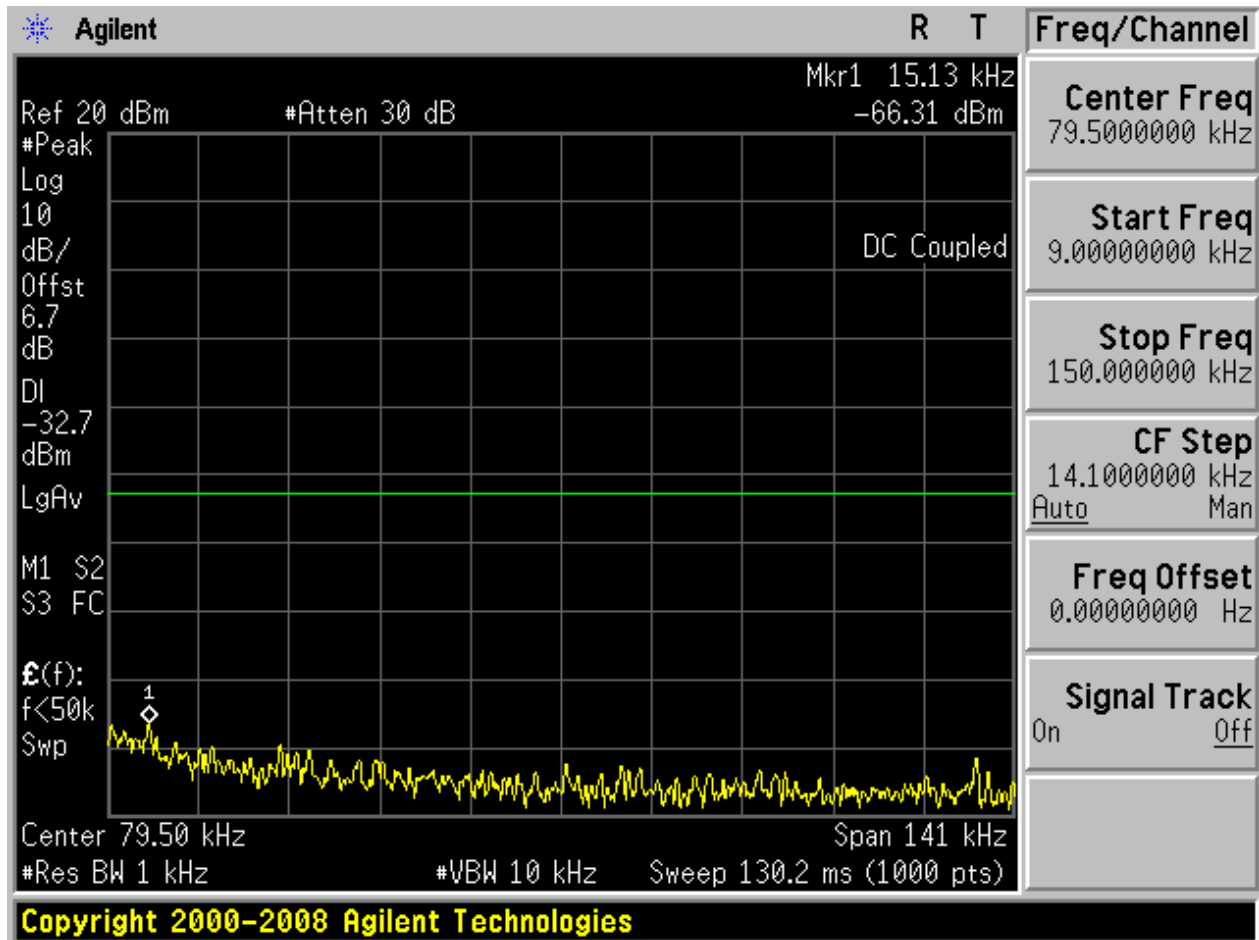


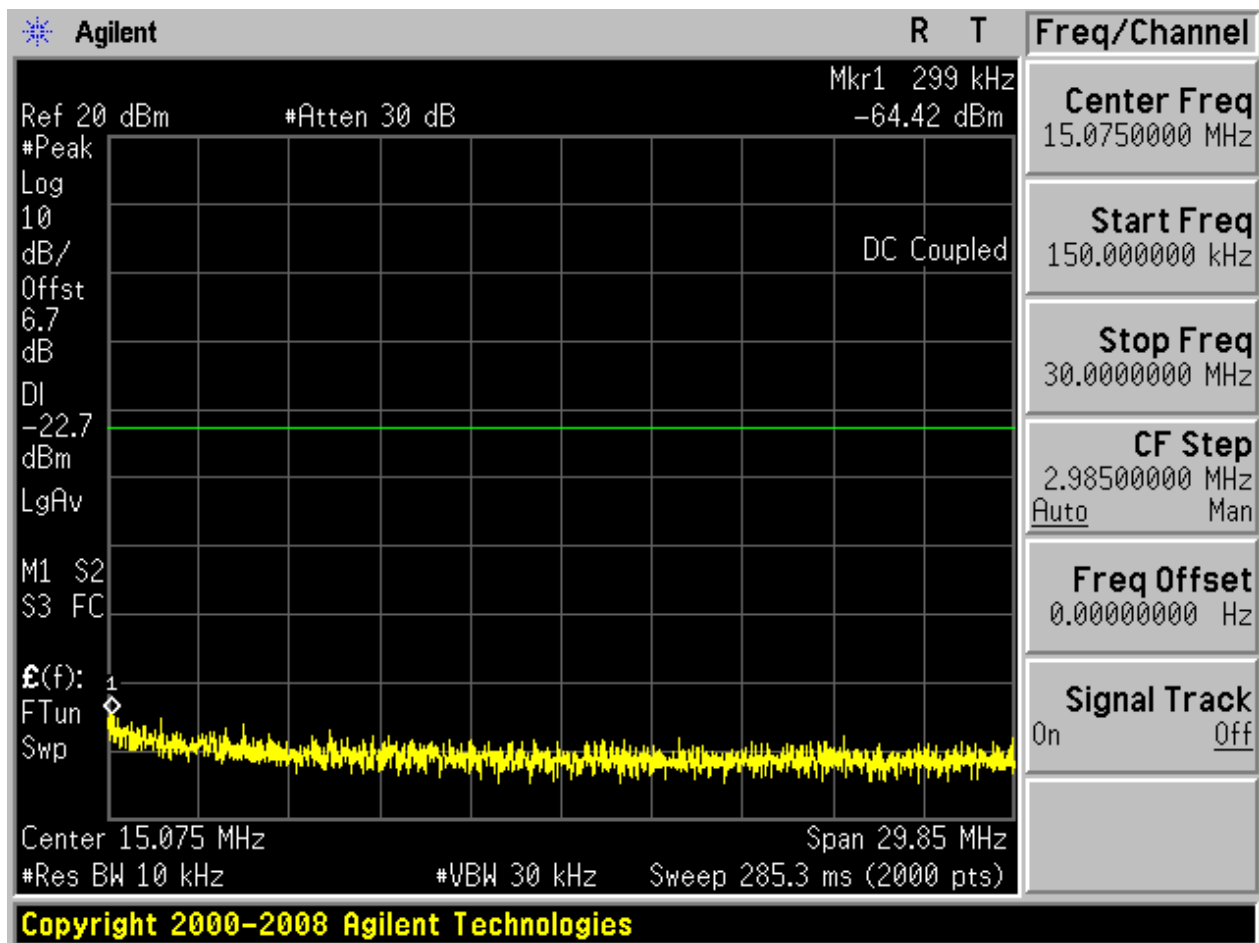
2.7 TM3_3DH5_Ch0

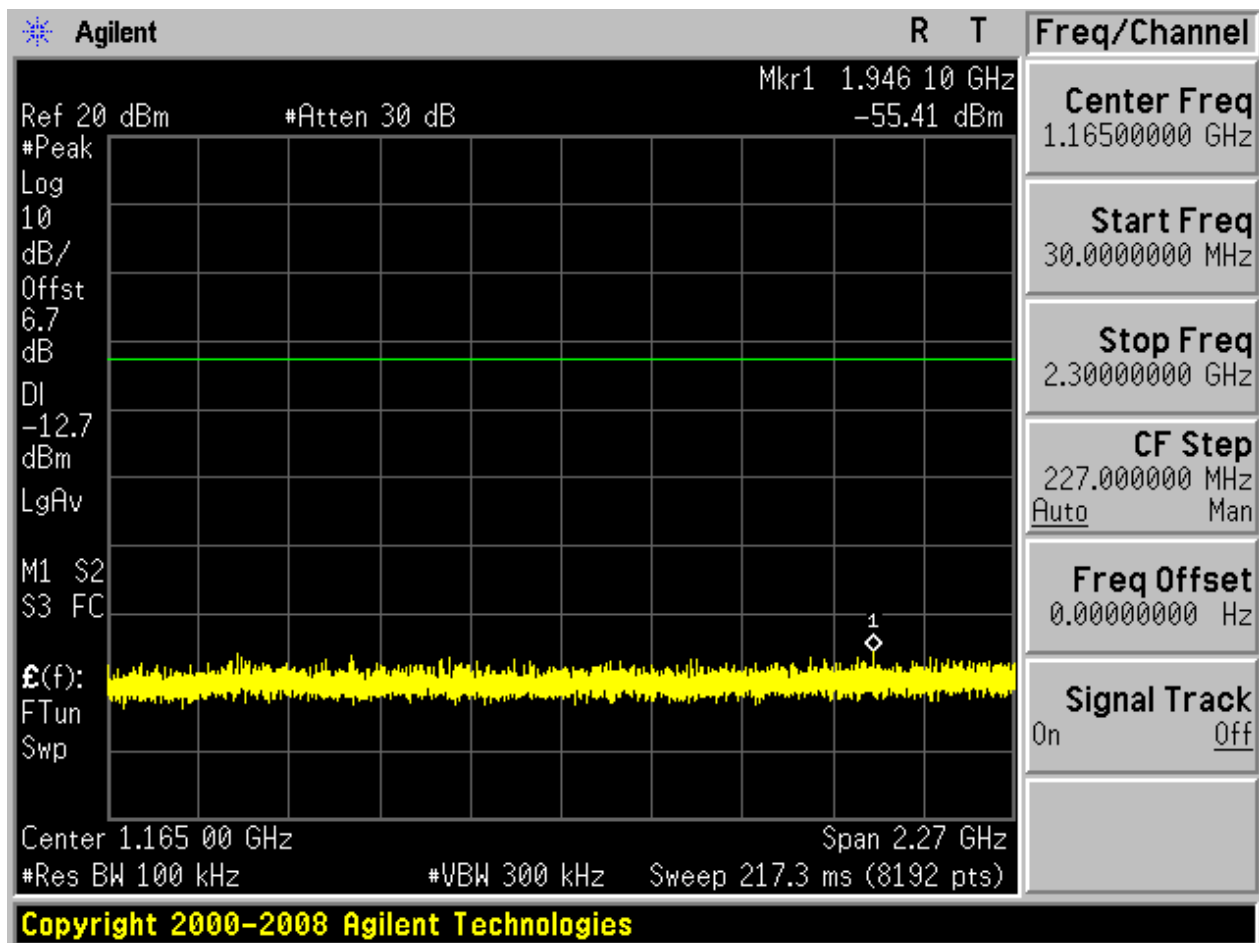
2.7.1 Pref

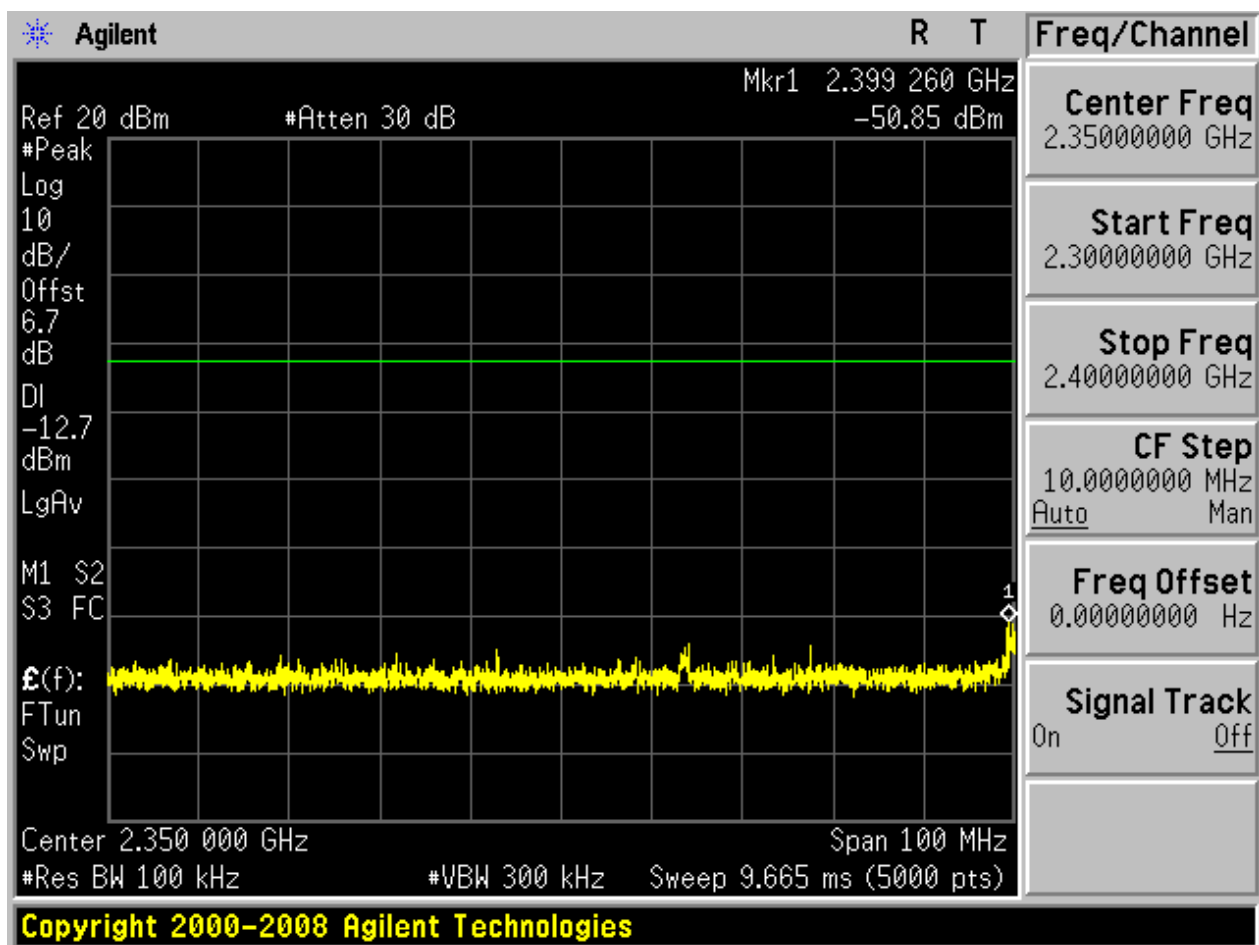


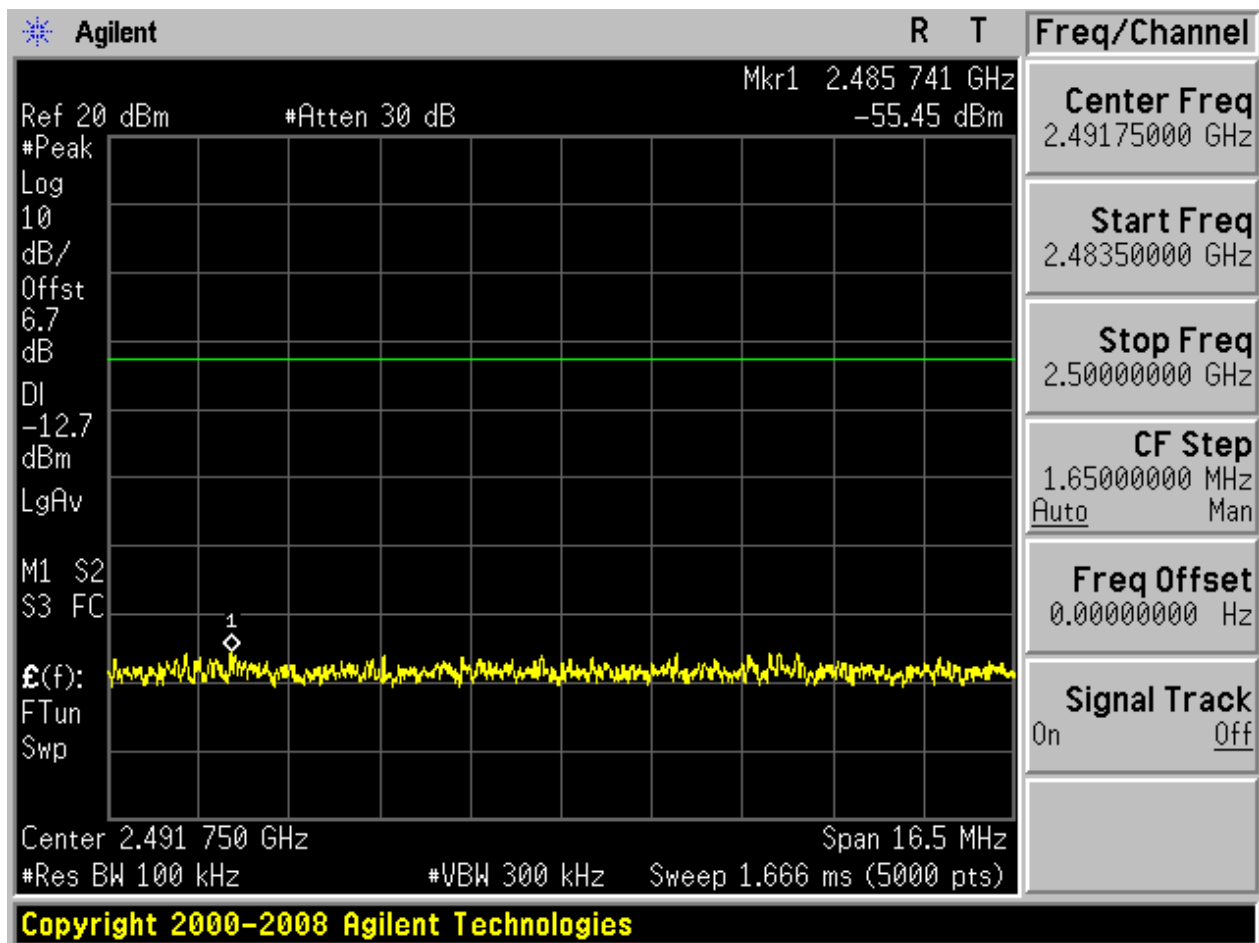
2.7.2 Puw

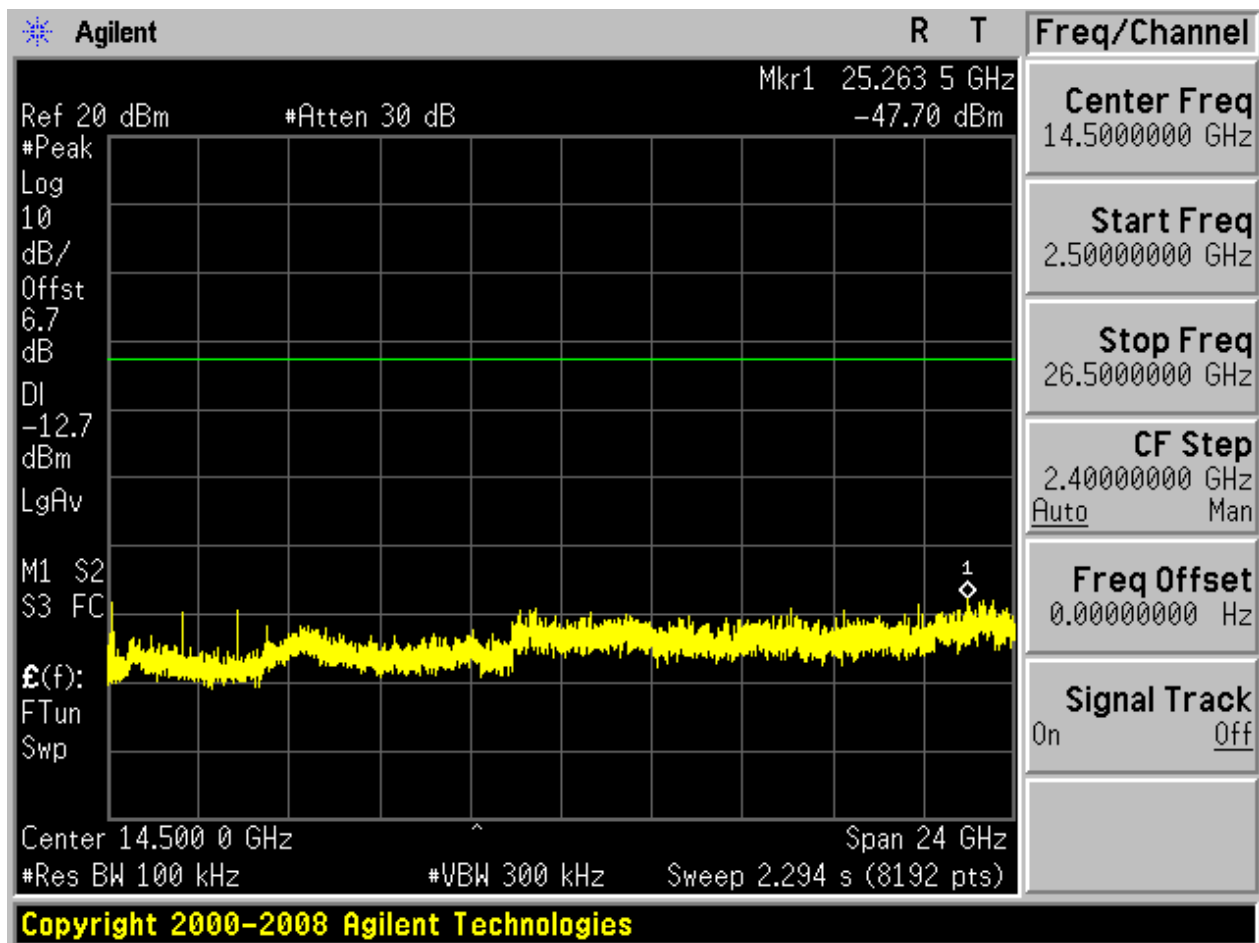






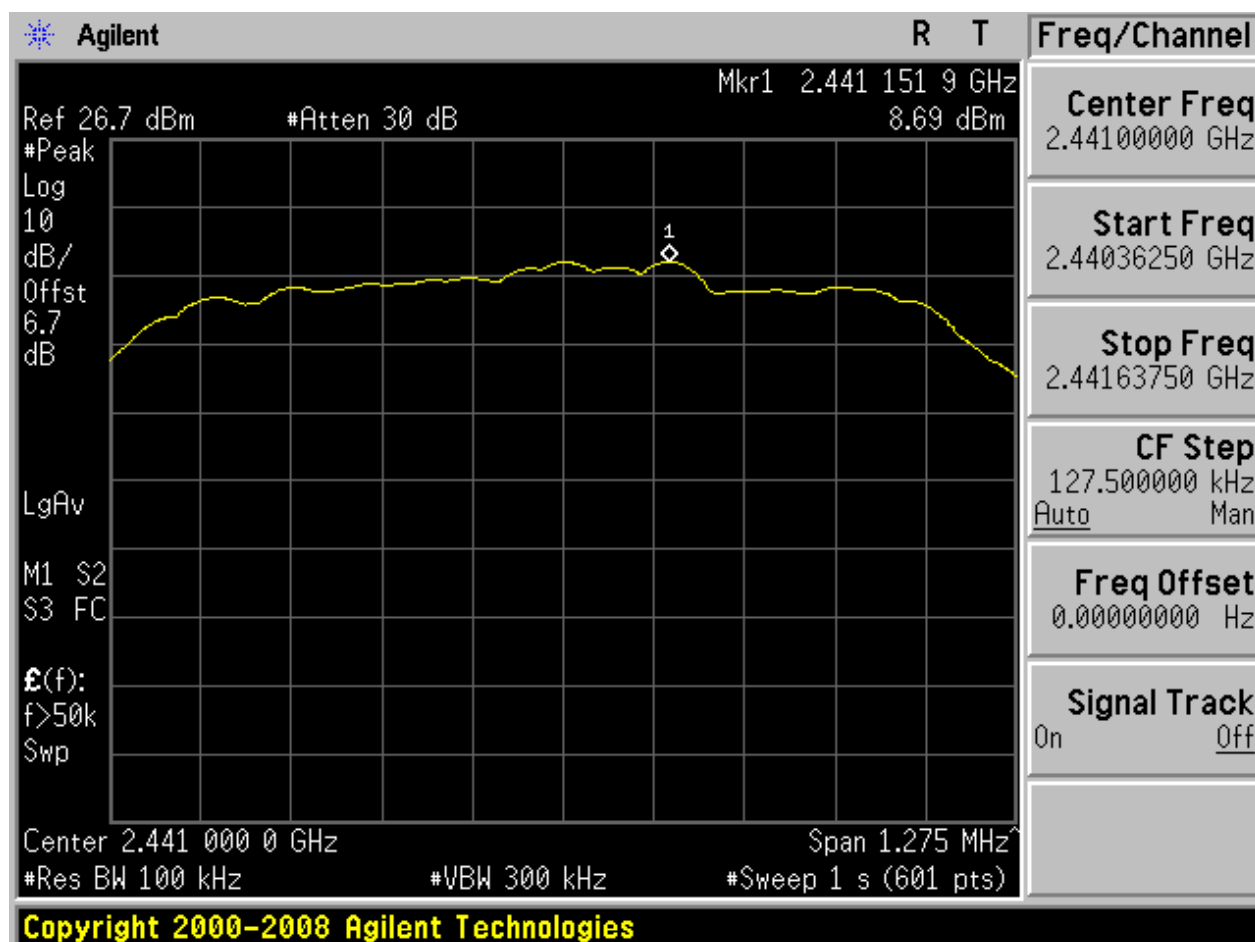




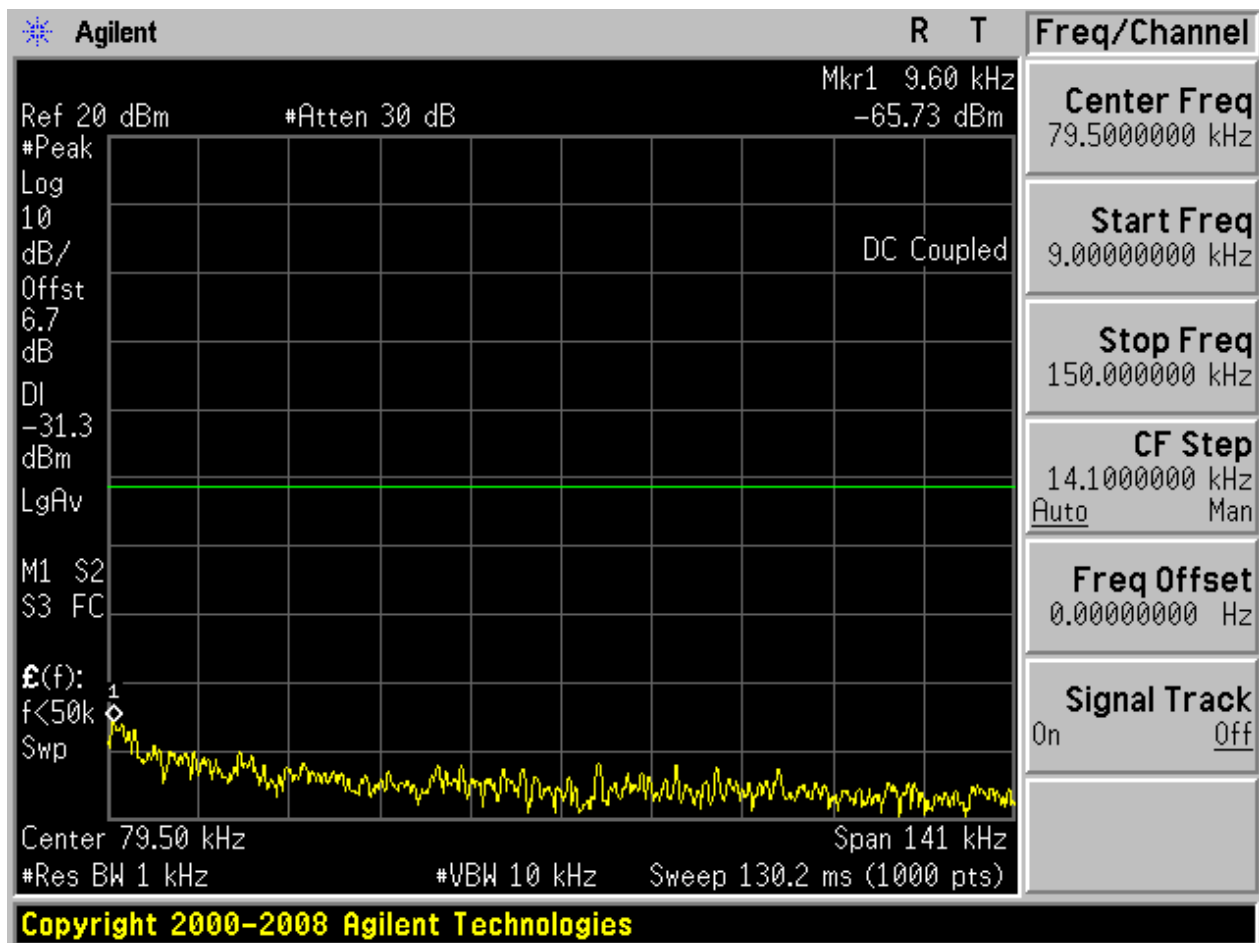


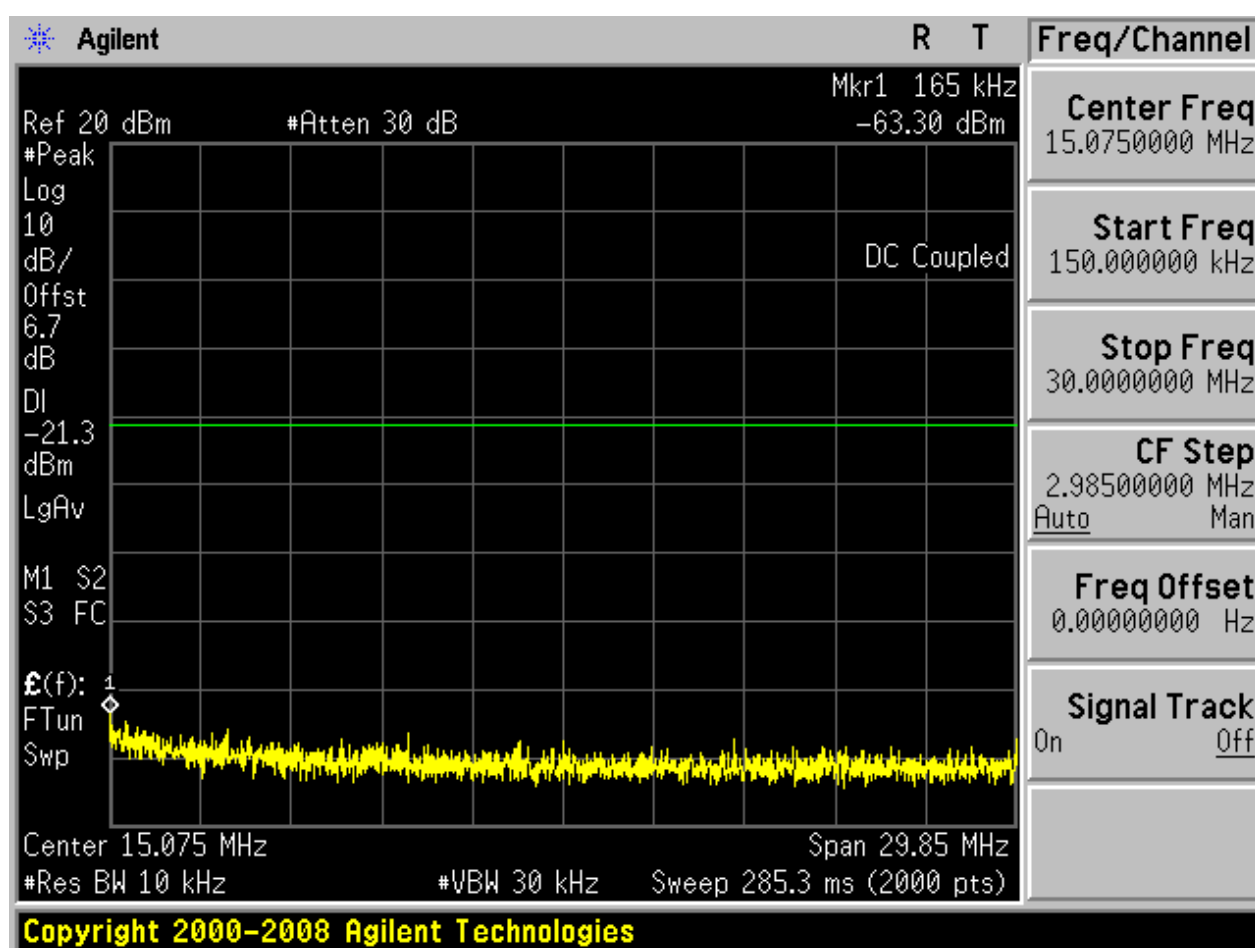
2.8 TM3_3DH5_Ch39

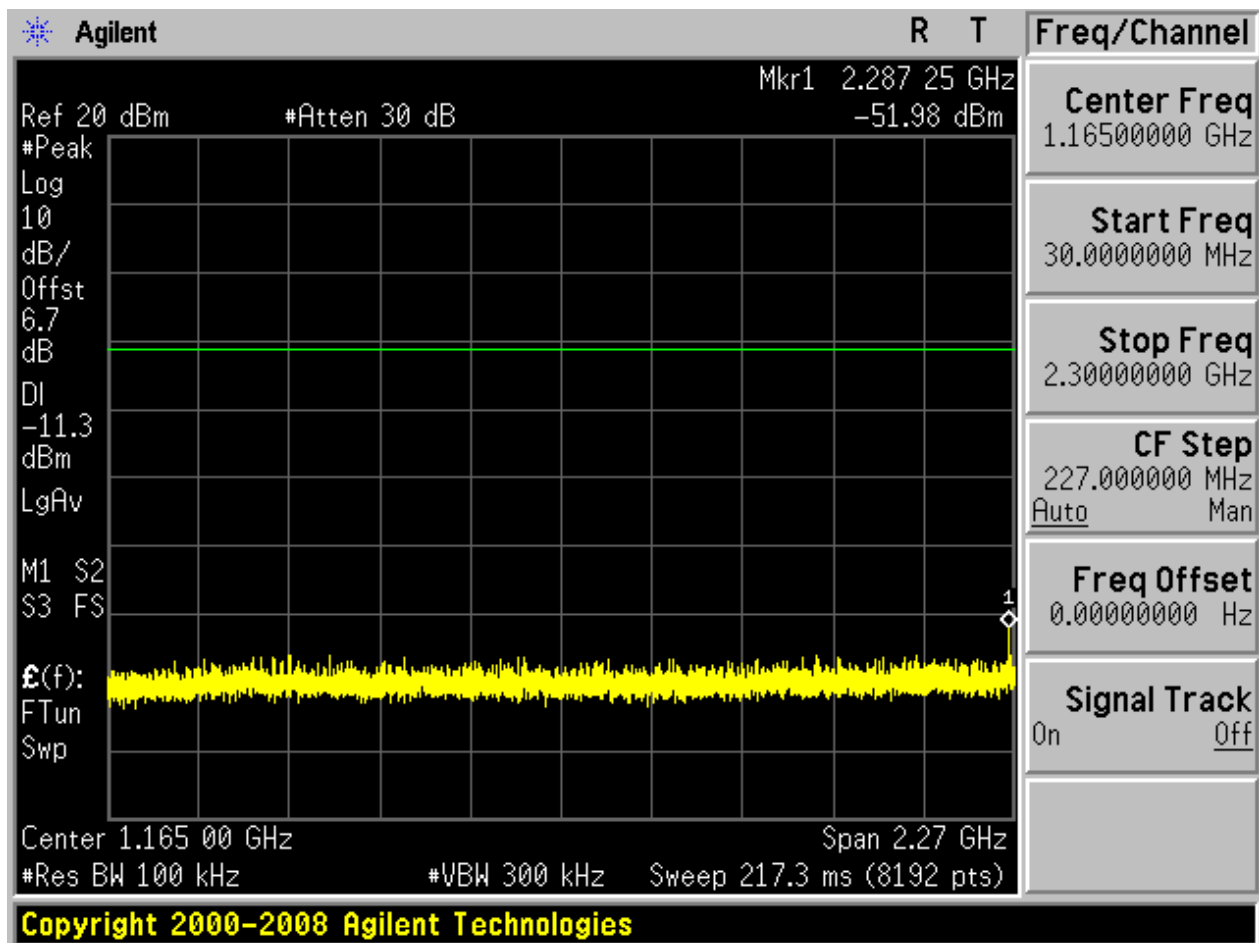
2.8.1 Pref

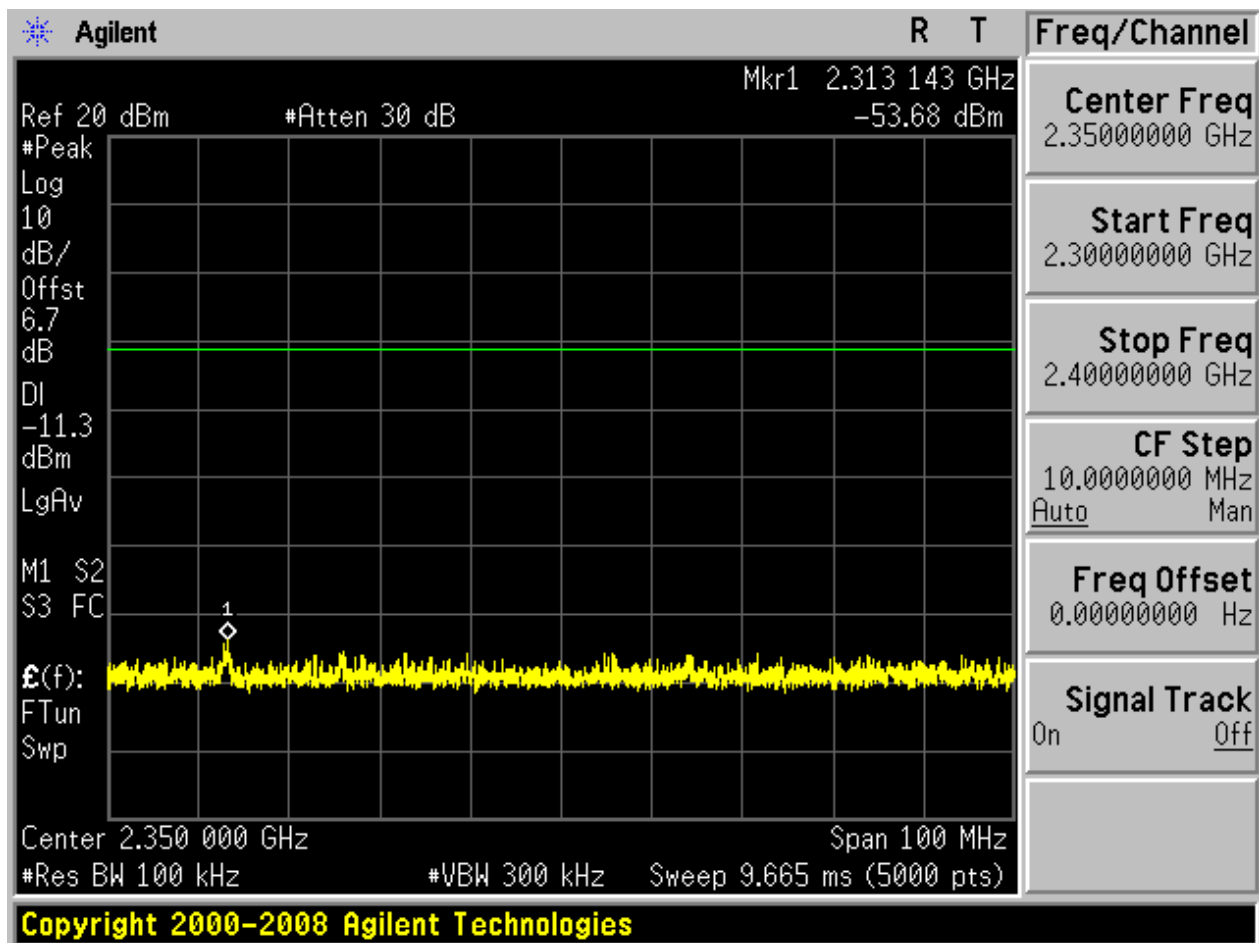


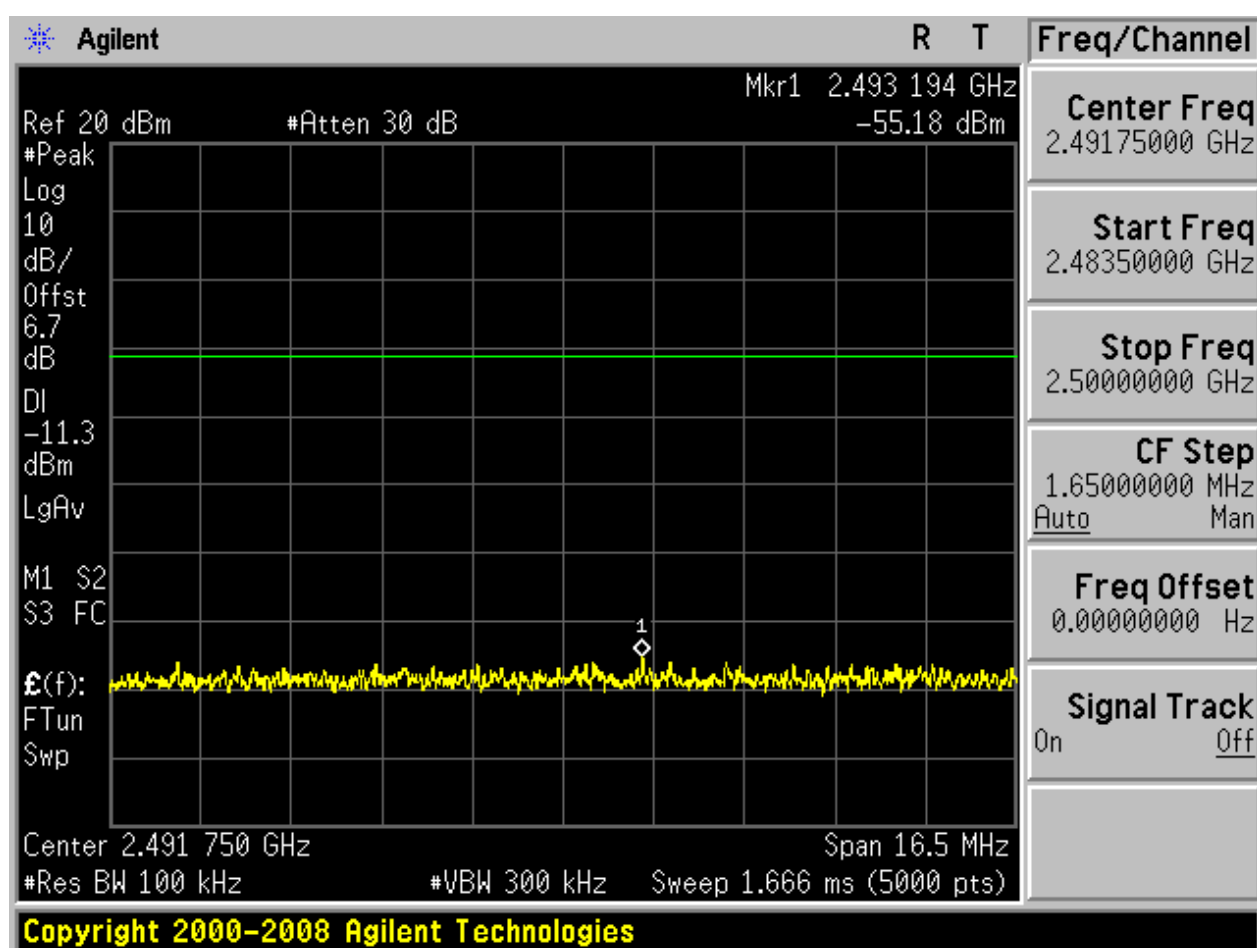
2.8.2 Puw

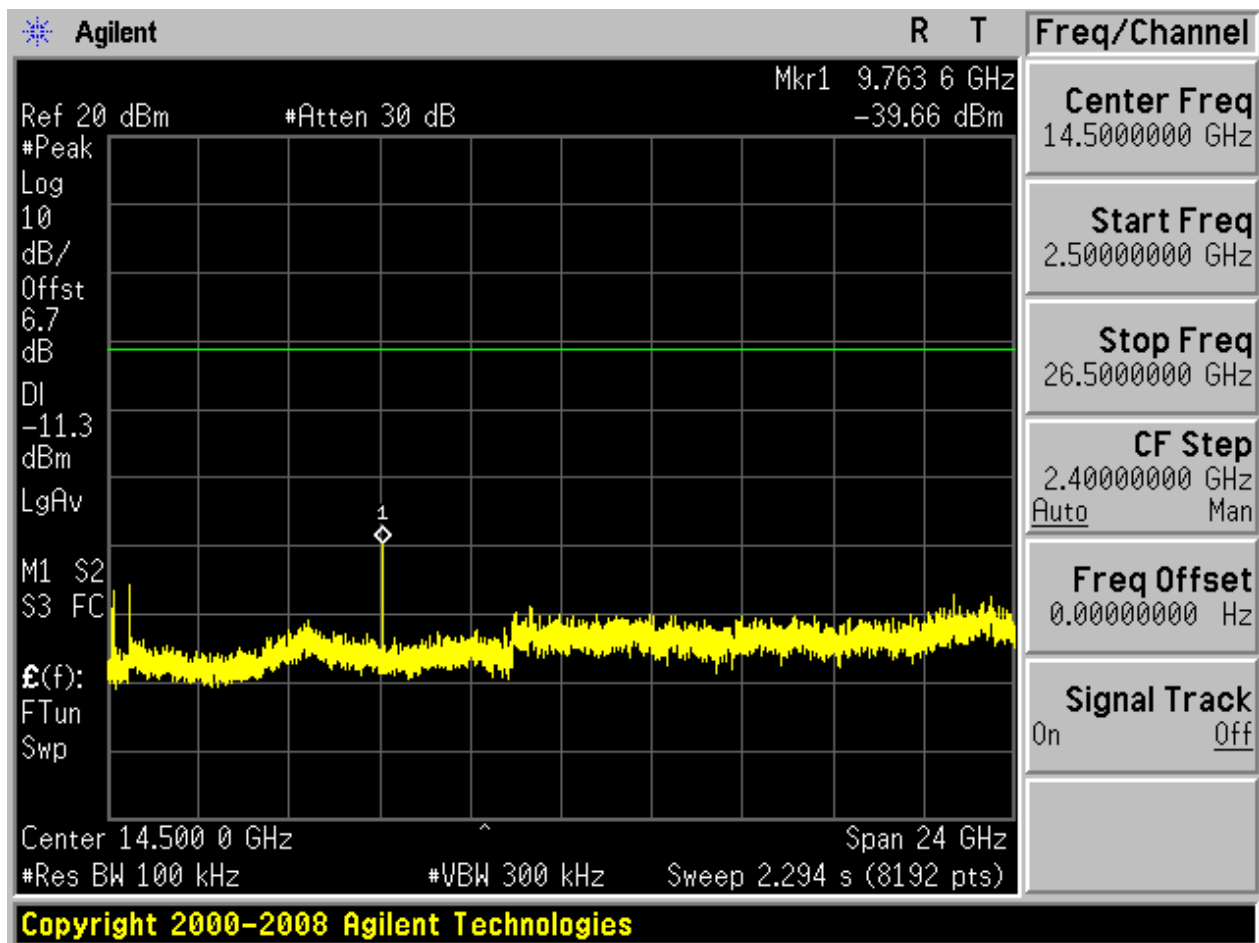






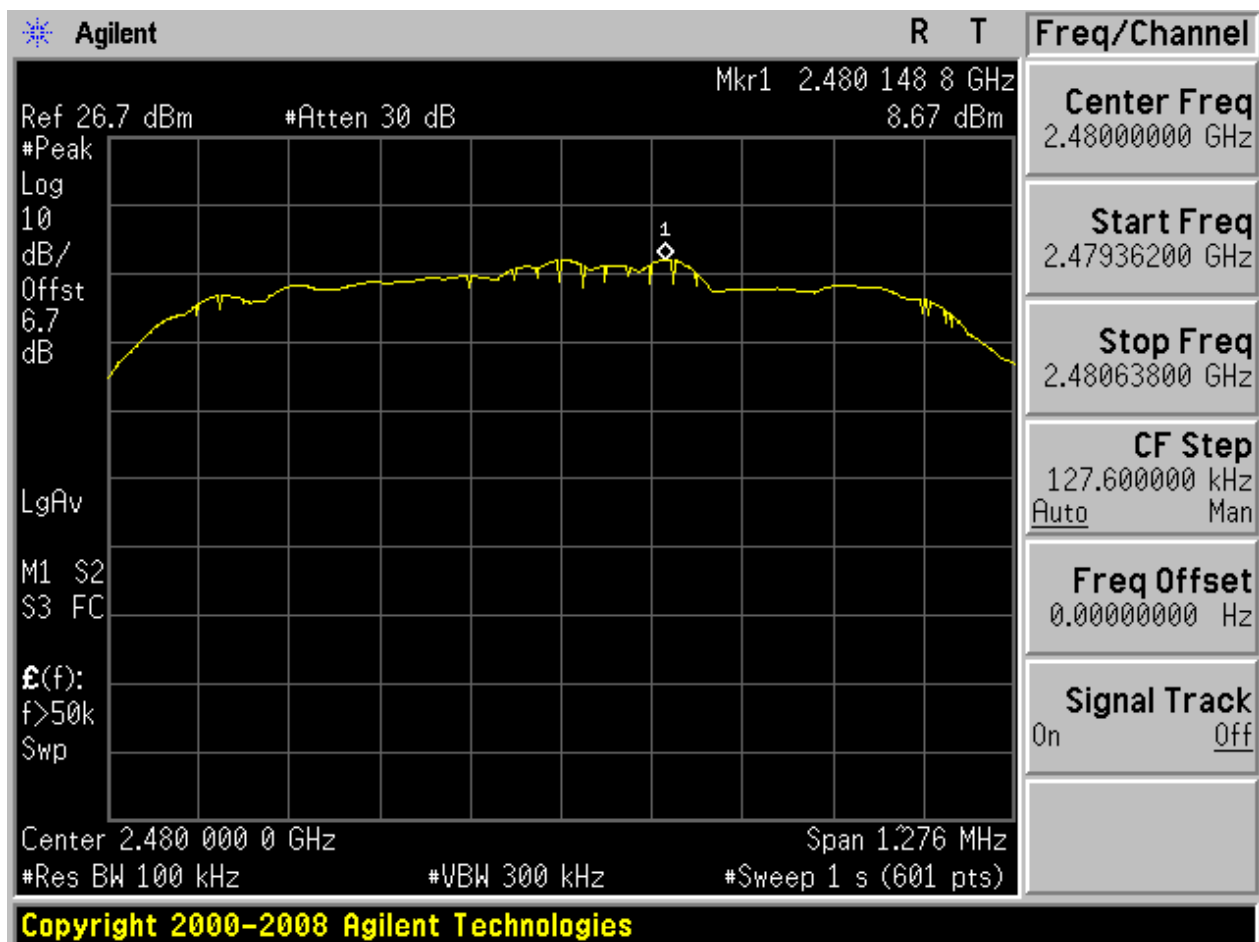






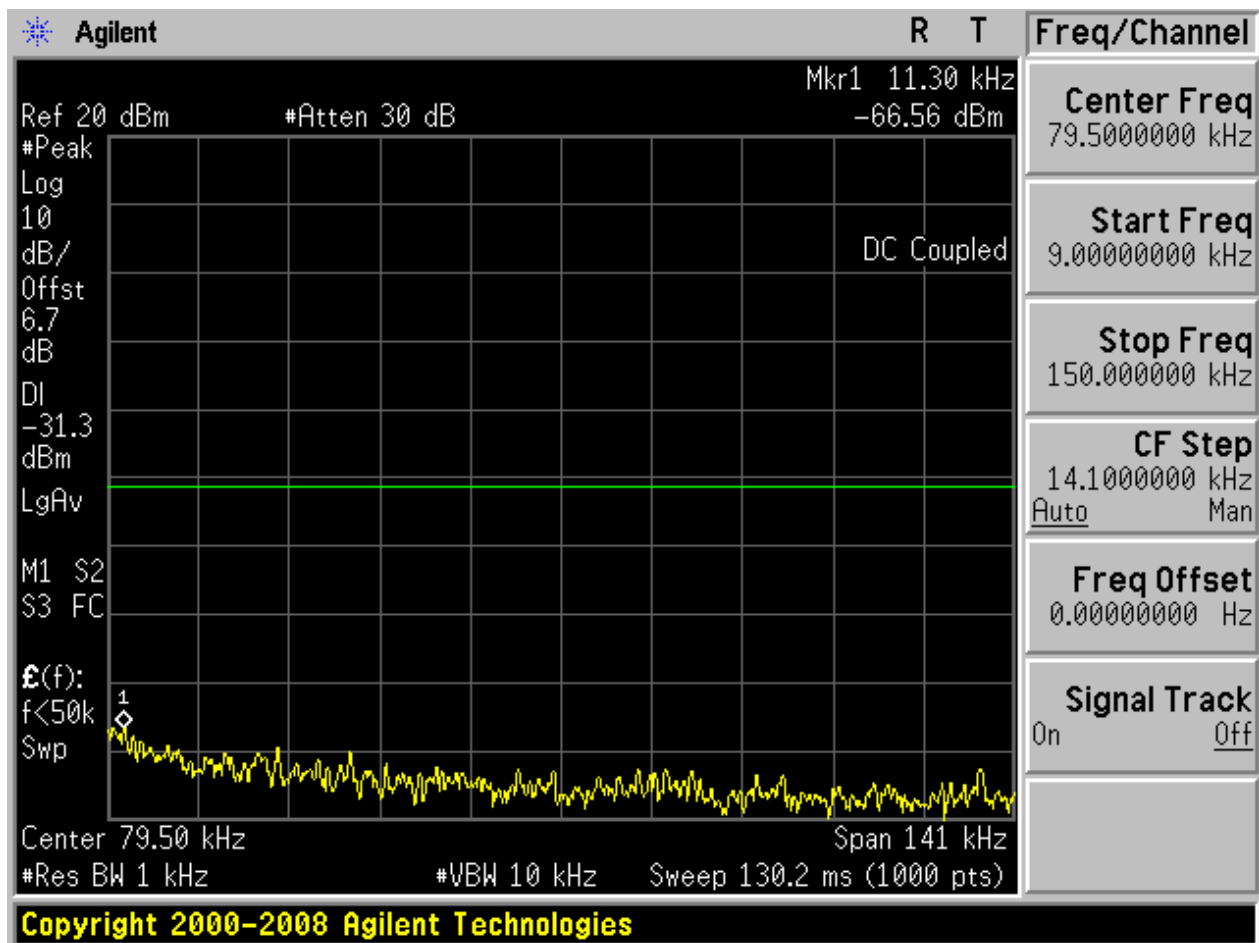
2.9 TM3_3DH5_Ch78

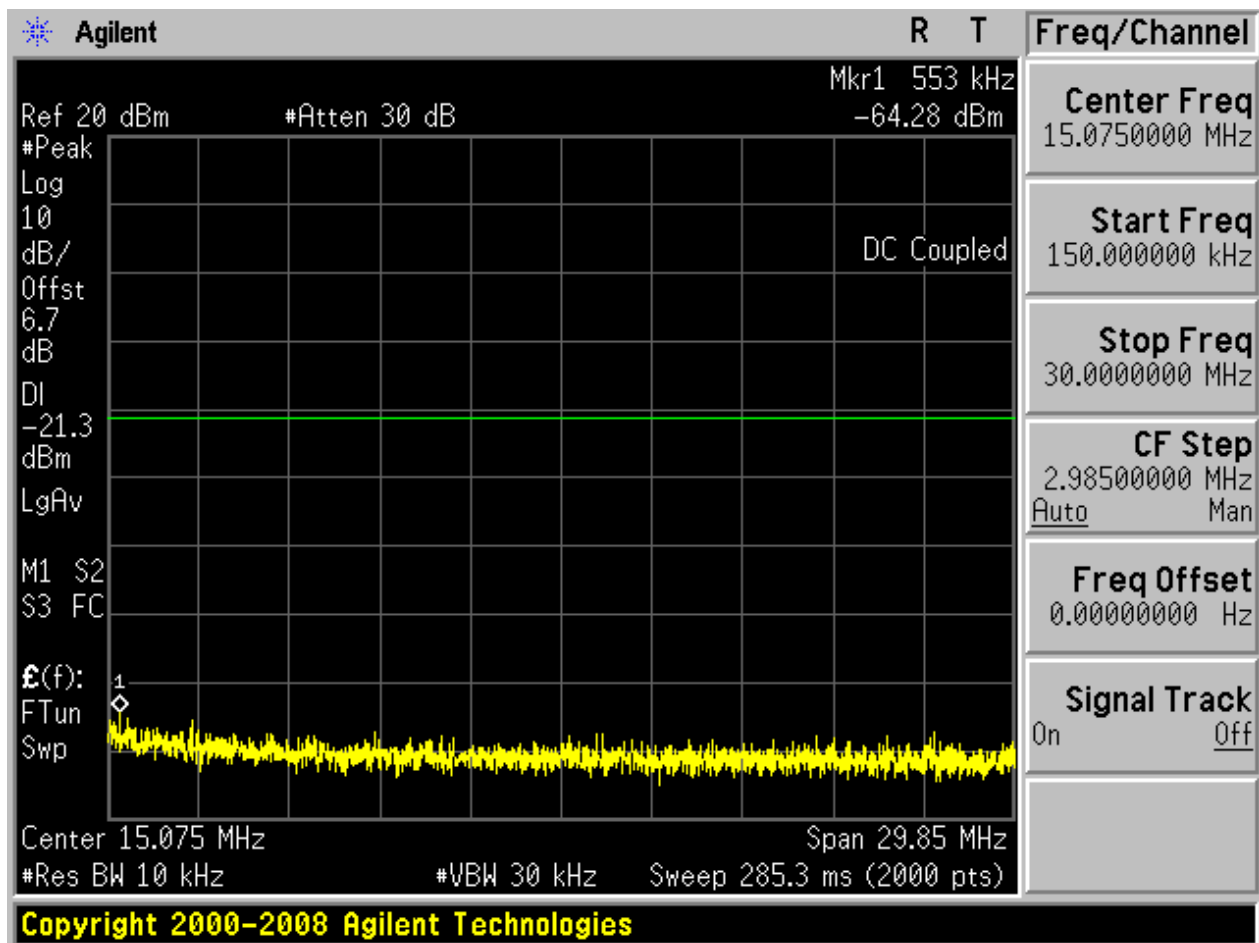
2.9.1 Pref

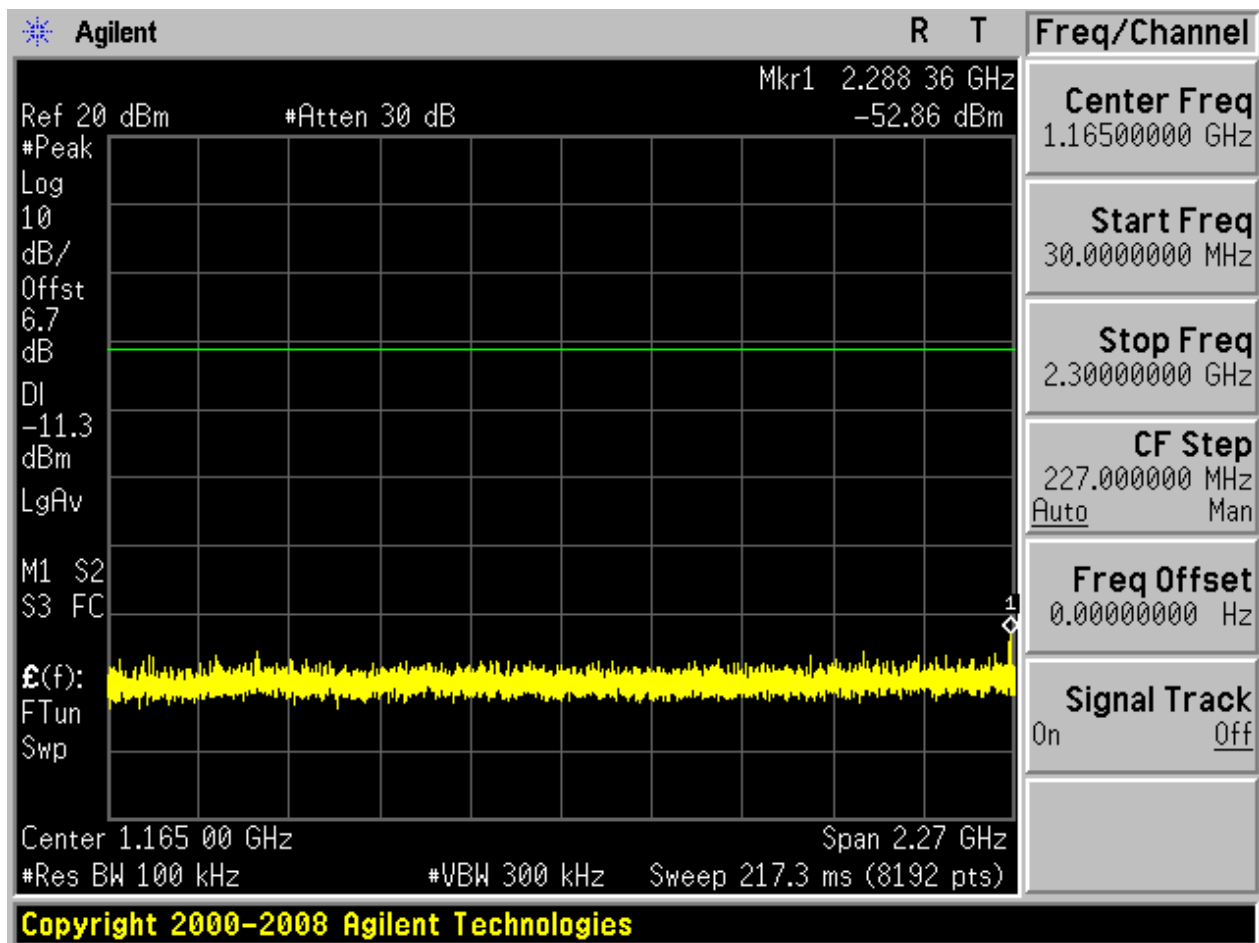


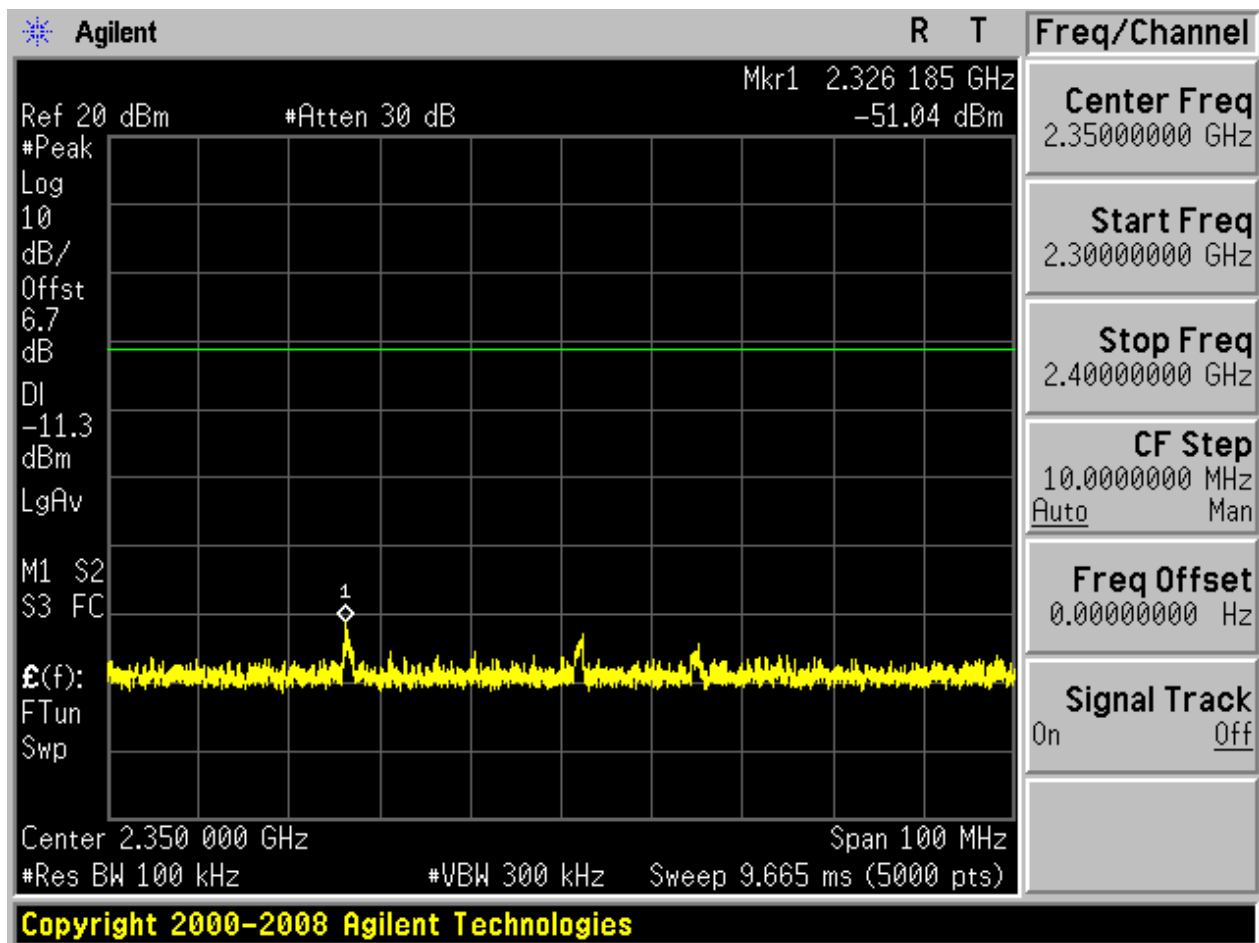


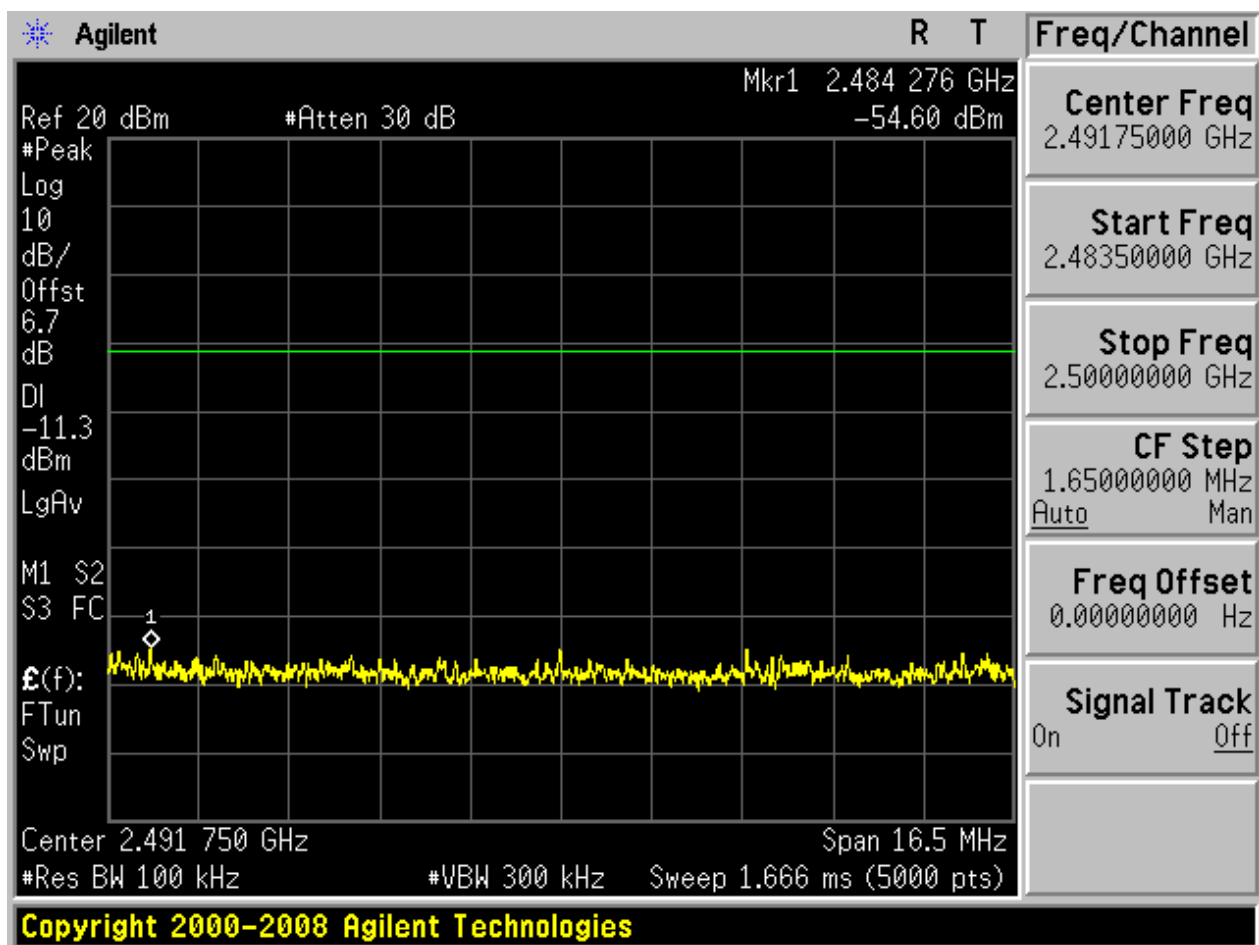
2.9.2 Puw

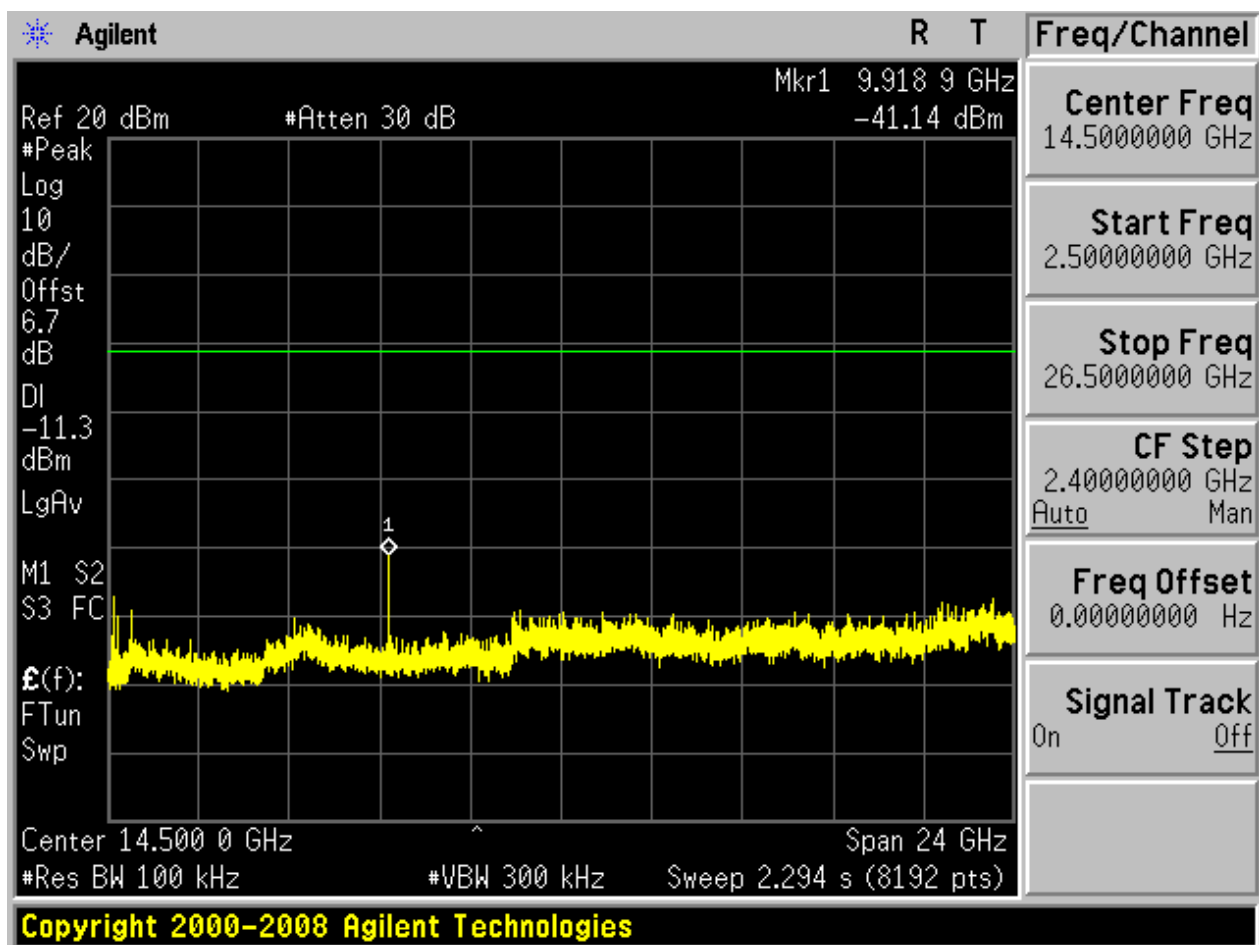










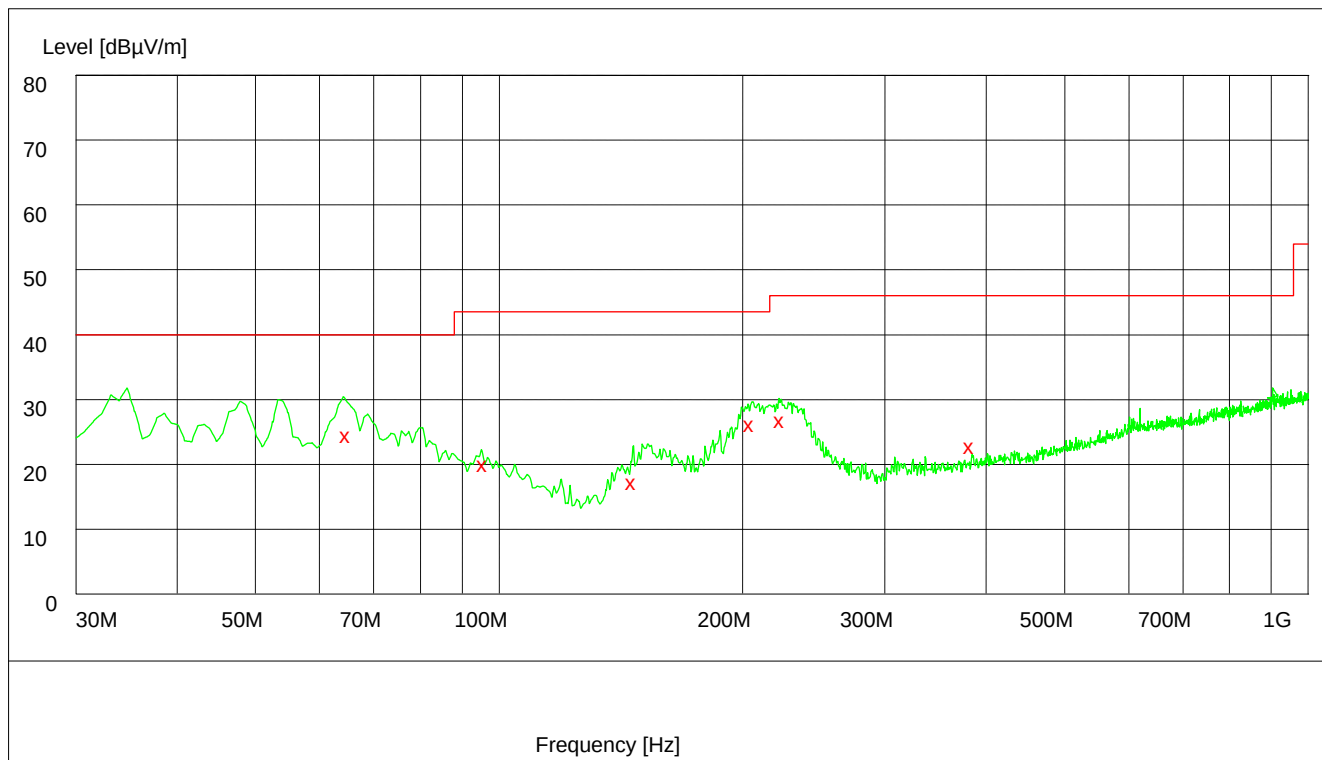


Appendix H: Radiated Emissions in the Restricted Bands

Part 1: 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.

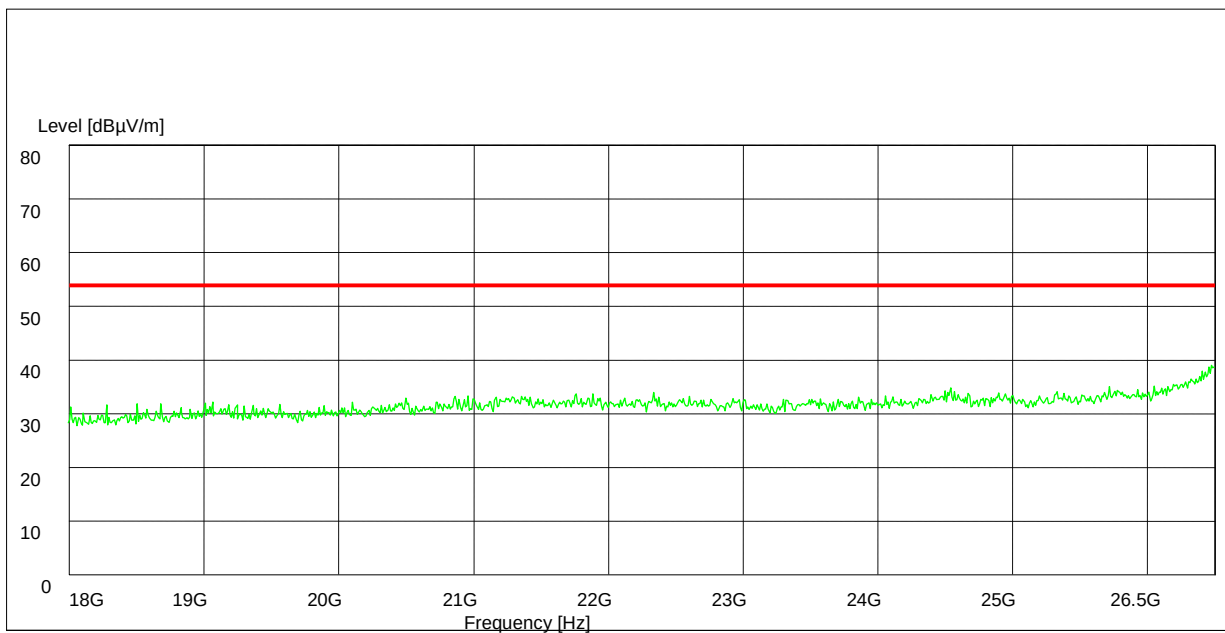
Note 2: The emissions in this range are mainly from the Platform Device (Notepad PC and its ancillary components).



Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Plarization
64.980000	26.00	11.6	40.0	14.0	100.0	117.00	VERTICAL
95.940000	21.50	12.9	43.5	22.0	103.0	21.00	VERTICAL
146.760000	18.60	9.9	43.5	24.9	117.0	95.00	VERTICAL
204.840000	27.70	12.6	43.5	15.8	100.0	167.00	VERTICAL
223.440000	28.30	13.1	46.0	17.7	100.0	326.00	HORIZONTAL
383.820000	24.30	17.2	46.0	21.7	119.0	296.00	VERTICAL

Part 2: Testing Range of “18 GHz to 26.5 GHz”

Note: No peak found in pre- test.

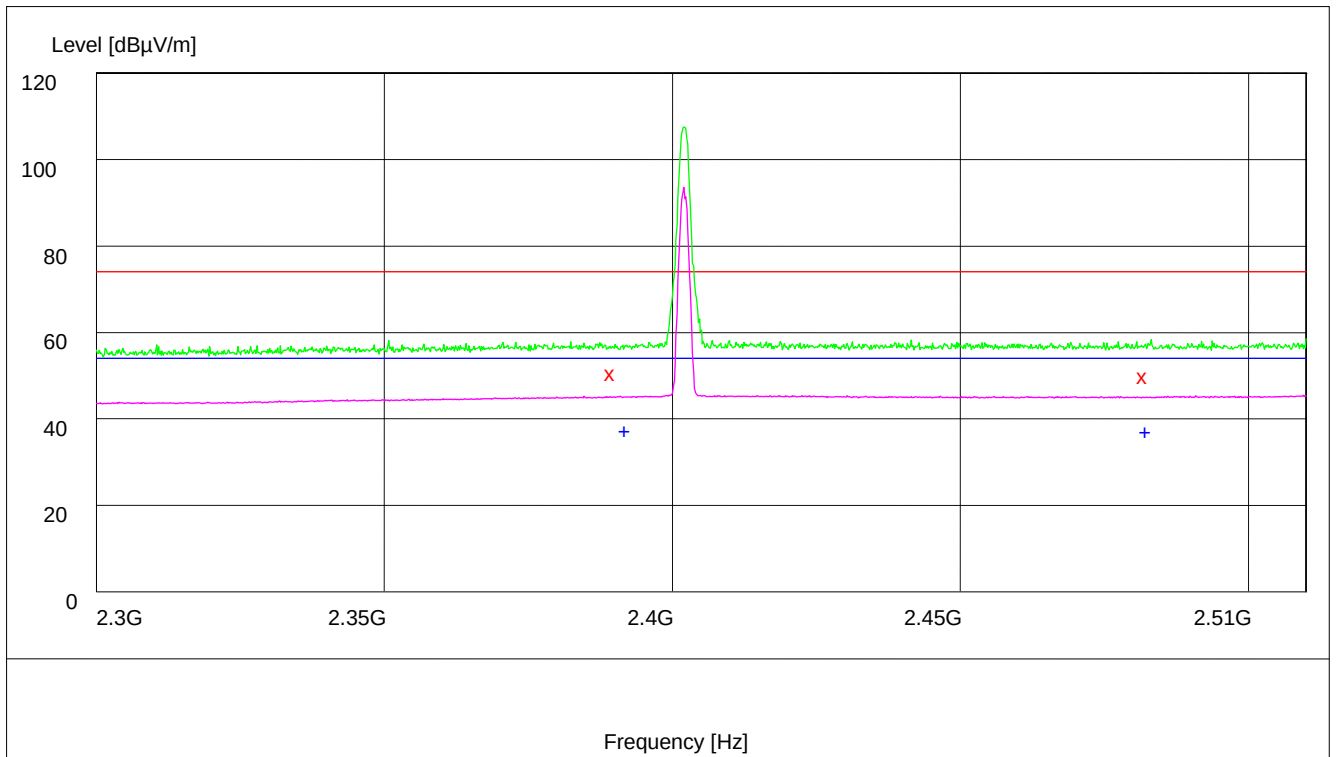


Part 3: Testing Range of “2.3GHz to 2.5GHz”

- 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.

3 Test Mode:

3.1 Channel 00



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

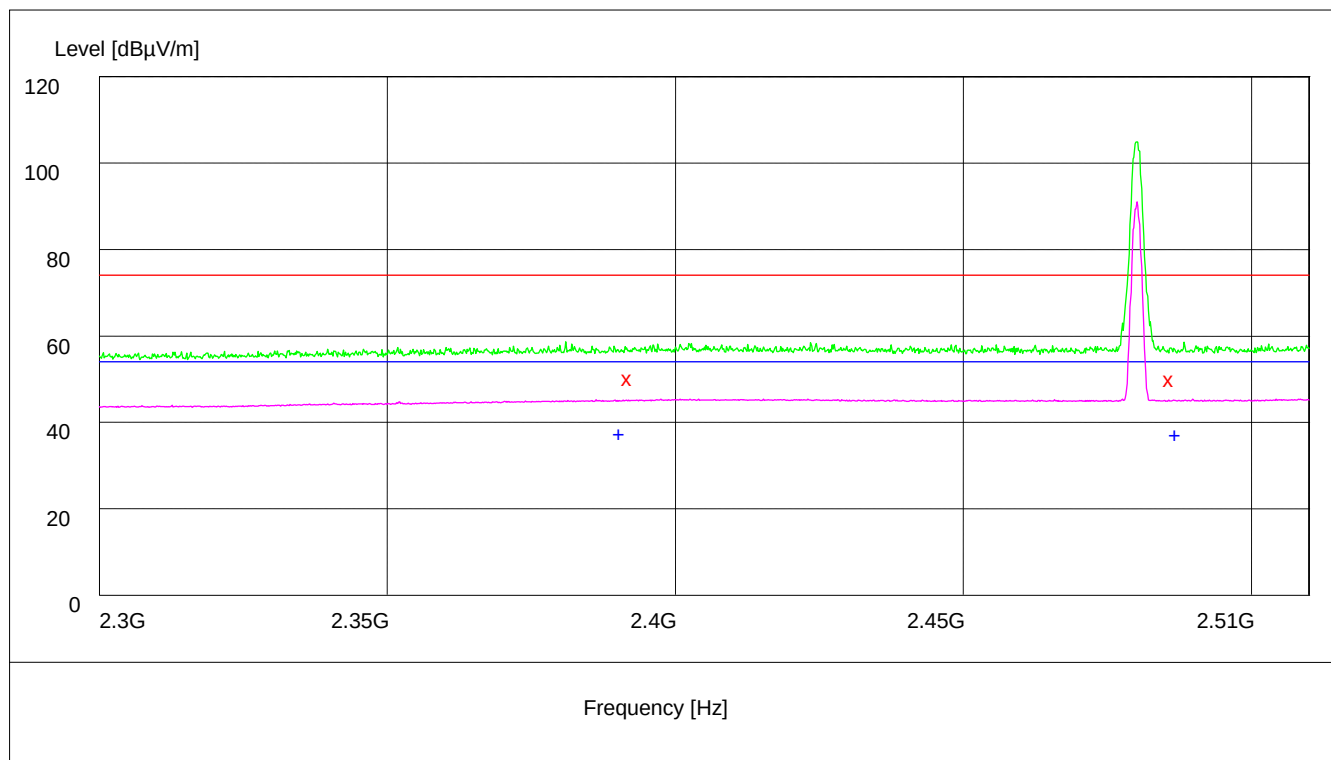
MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
2389.500000	52.80	34.7	74.0	21.2	164.0	281.00	VERTICAL
2482.000000	52.00	35.0	74.0	22.0	161.0	75.00	HORIZONTAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
2392.000000	39.30	34.7	54.0	14.7	178.0	331.00	VERTICAL
2482.500000	39.20	35.0	54.0	14.8	101.0	57.00	VERTICAL

3.2 Channel 78



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

MEASUREMENT RESULT: PK Detector

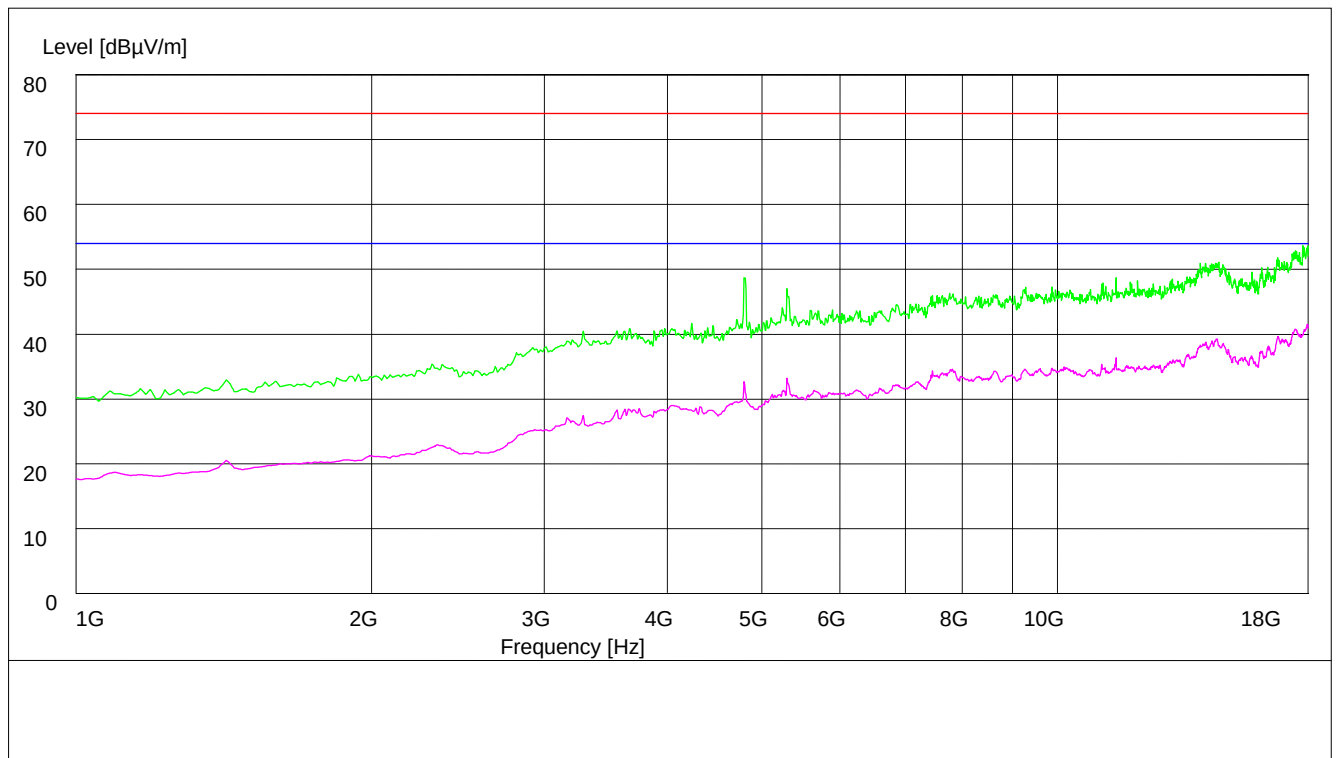
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
2392.000000	52.40	34.7	74.0	21.6	155.0	304.00	VERTICAL
2486.000000	52.00	35.0	74.0	22.0	109.0	106.00	VERTICAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.500000	39.30	34.7	54.0	14.7	168.0	282.00	VERTICAL
2487.000000	39.20	35.0	54.0	14.8	100.0	292.00	VERTICAL

Part 4: Testing Range of “1 GHz to 18 GHz”

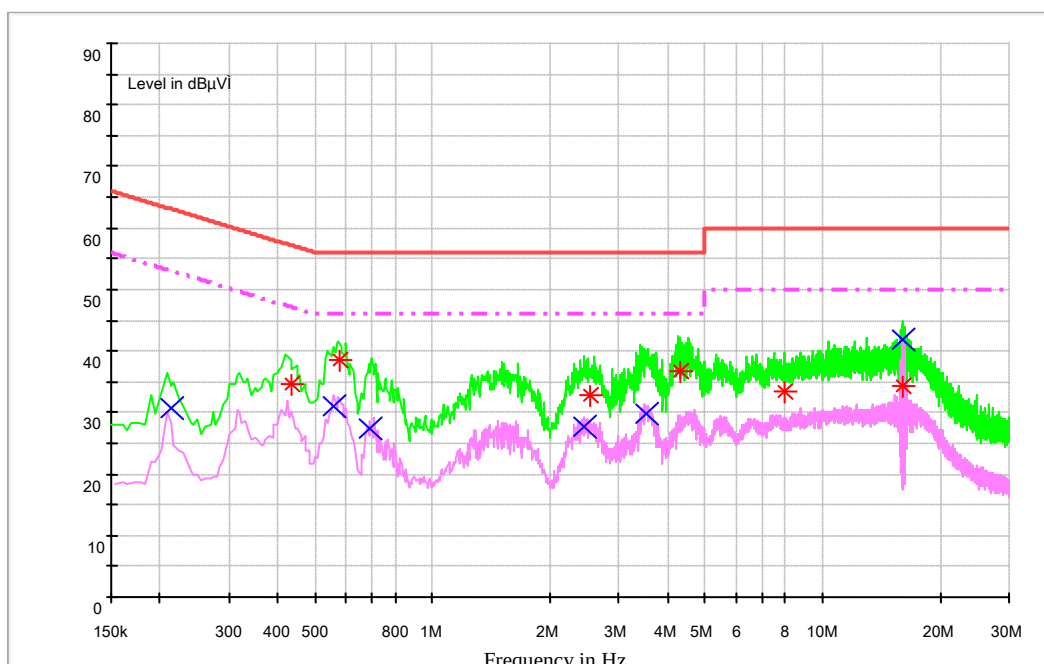
- Note 1: The test results and plot for testing range of “1 GHz to 18 GHz” showed as below is the WORST case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel.
- Note 2: The testing range of “1 GHz to 18 GHz” is for checking radiated emissions located in restricted bands faraway from the EUT operating bands.
- Note 3: Two limits are required in the testing range above 1 GHz, that is Peak limit (74 dB μ V/m) and Average Limit (54 dB μ V/m).



Appendix I: Conducted Emission at Power Port

Note: RBW =9 kHz, VBW = 30 kHz

Channel 39



MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBμV	Line	Transd dB	Margin dB	Limit dBμV	PE
0.435056	34.6	N	9.7	22.6	57.2	FLO
0.579948	38.4	N	9.7	17.6	56.0	FLO
2.543532	32.9	N	9.7	23.1	56.0	FLO
4.318628	36.6	L1	9.8	19.4	56.0	FLO
7.930924	33.5	N	9.9	26.5	60.0	FLO
16.075279	34.4	N	10.1	25.6	60.0	FLO

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBμV	Line	Transd dB	Margin dB	Limit dBμV	PE
0.213267	30.6	N	9.7	22.5	53.1	FLO
0.555803	30.9	N	9.7	15.1	46.0	FLO
0.691781	27.5	L1	9.7	18.5	46.0	FLO
2.442308	27.7	L1	9.7	18.3	46.0	FLO
3.546570	29.8	N	9.7	16.2	46.0	FLO
16.067696	41.9	N	10.1	8.1	50.0	FLO

END