



Appendix A: 20dB Emission Bandwidth (EBW)

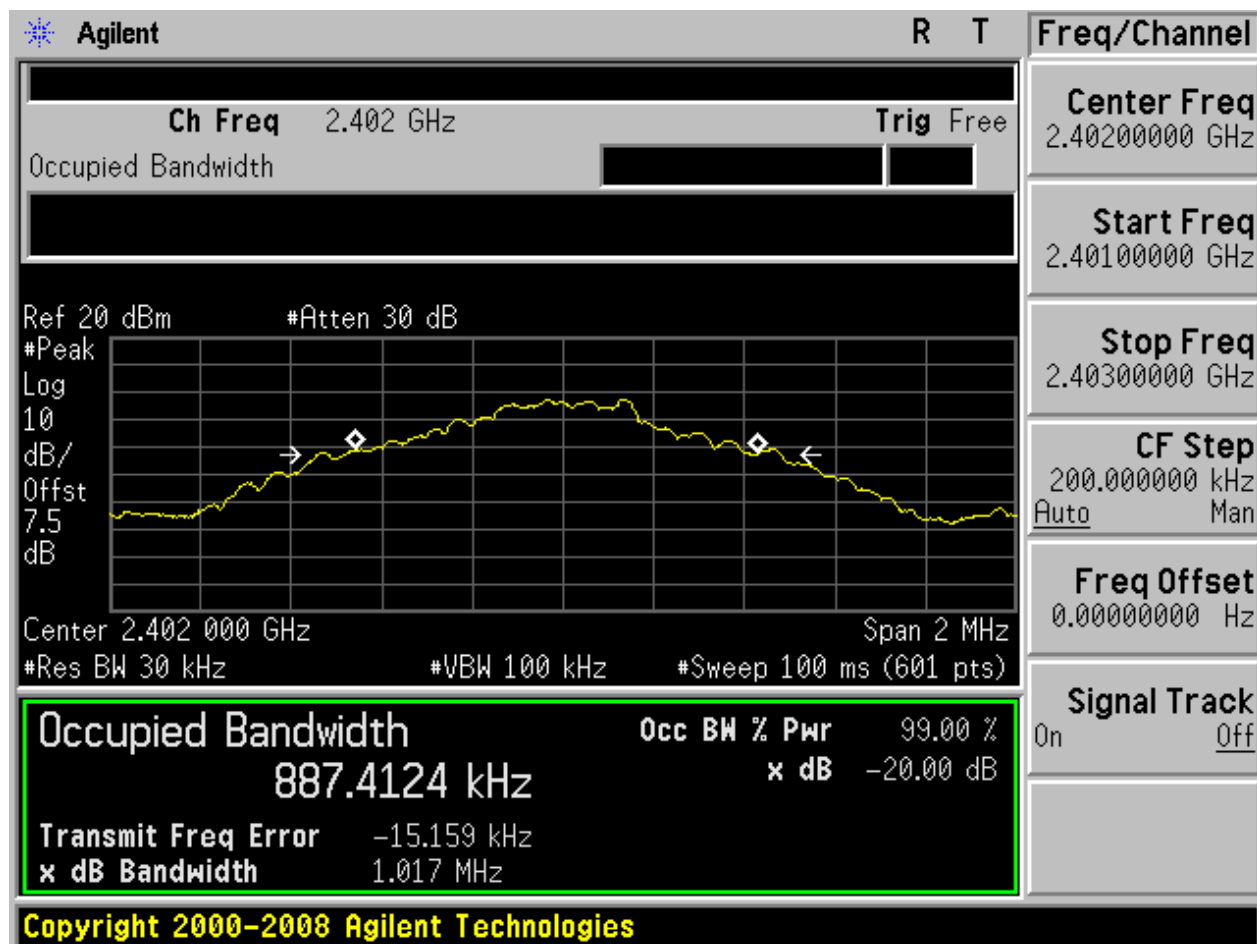
1 Result Table

EUT Conf.	EBW [MHz]	Verdict
TM1_DH5_Ch0	1.017	Pass
TM1_DH5_Ch39	1.017	Pass
TM1_DH5_Ch78	1.018	Pass
TM2_2DH5_Ch0	1.337	Pass
TM2_2DH5_Ch39	1.335	Pass
TM2_2DH5_Ch78	1.338	Pass
TM3_3DH5_Ch0	1.312	Pass
TM3_3DH5_Ch39	1.322	Pass
TM3_3DH5_Ch78	1.323	Pass

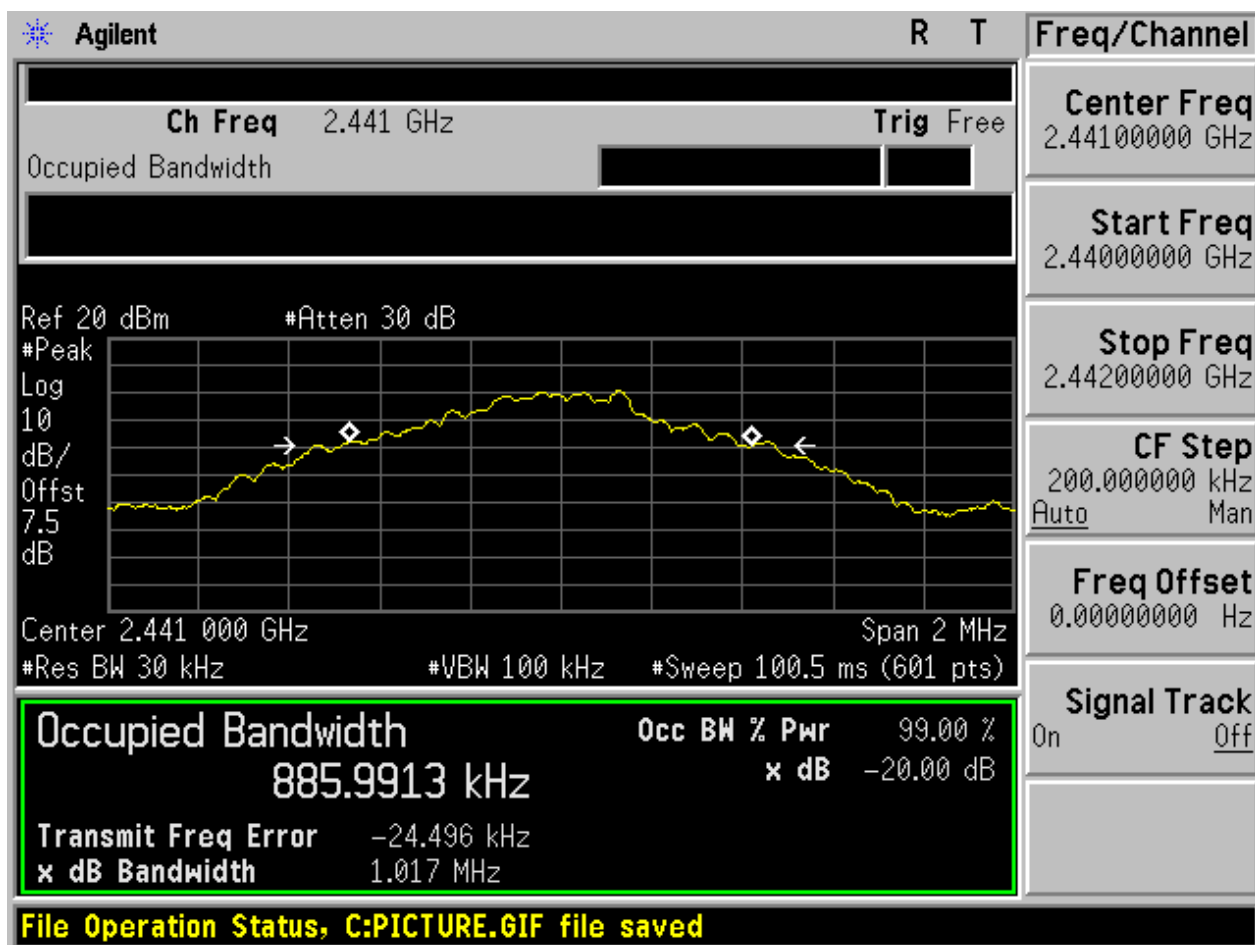


2 Test Plot

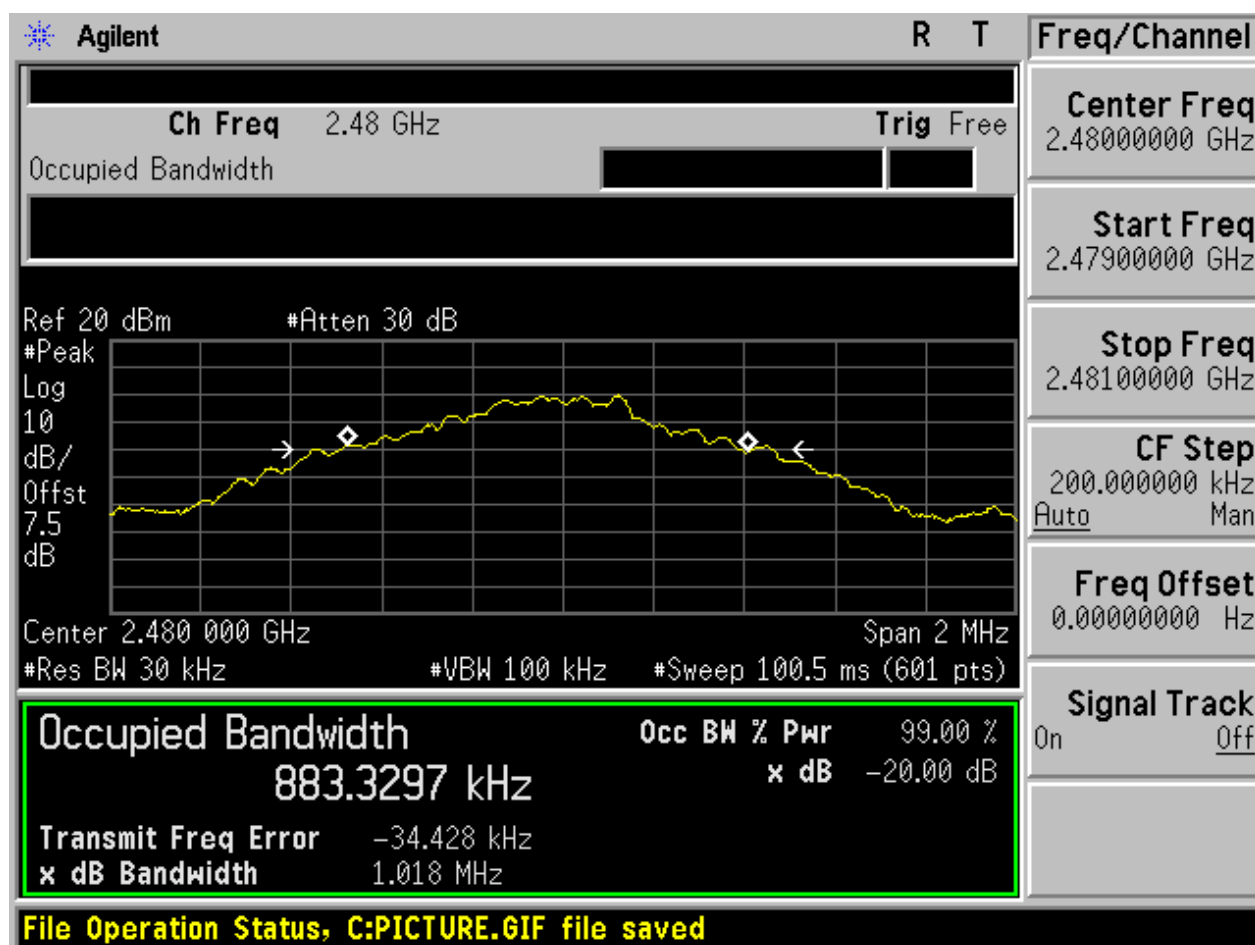
2.1 TM1_DH5_Ch0



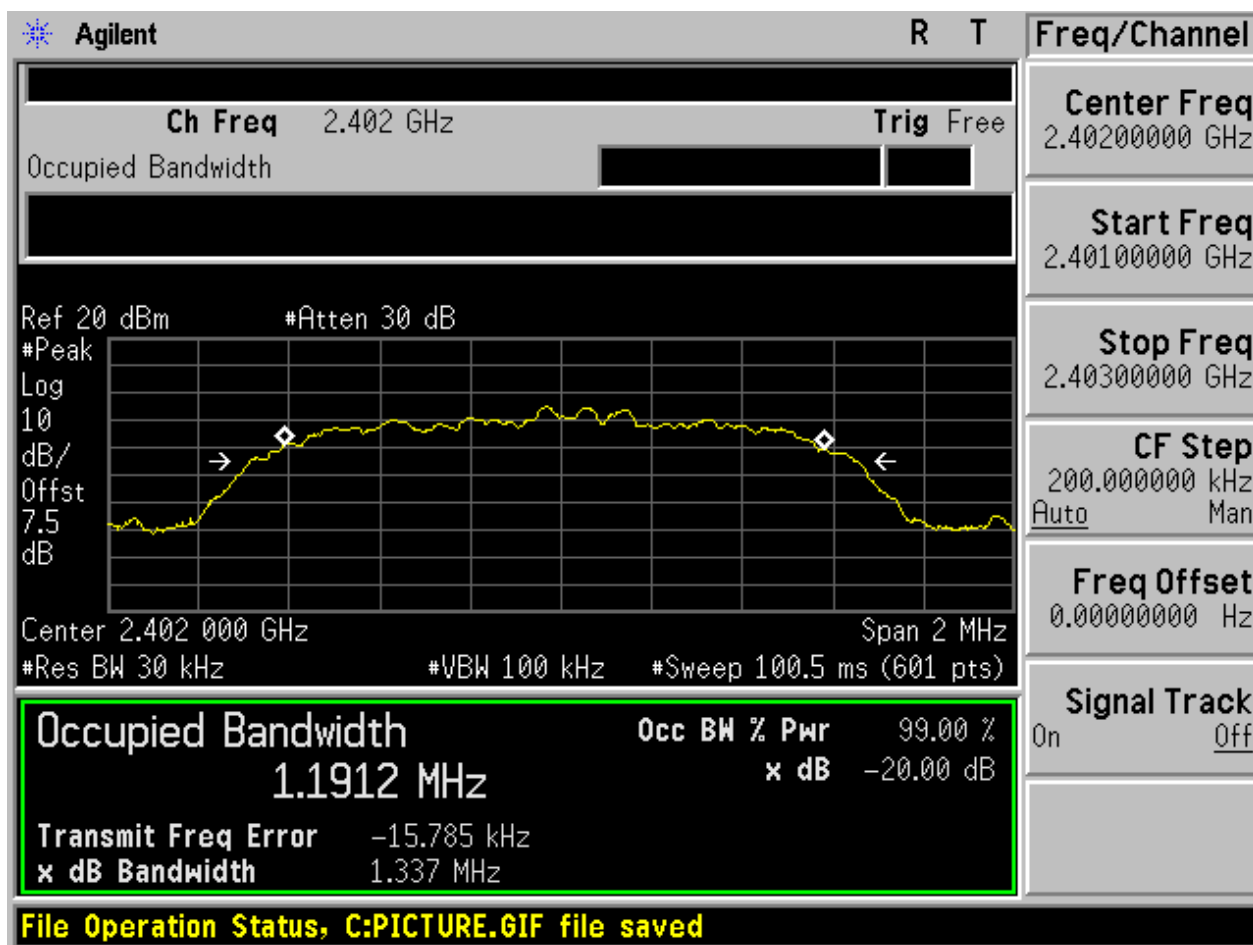
2.2 TM1_DH5_Ch39



2.3 TM1_DH5_Ch78

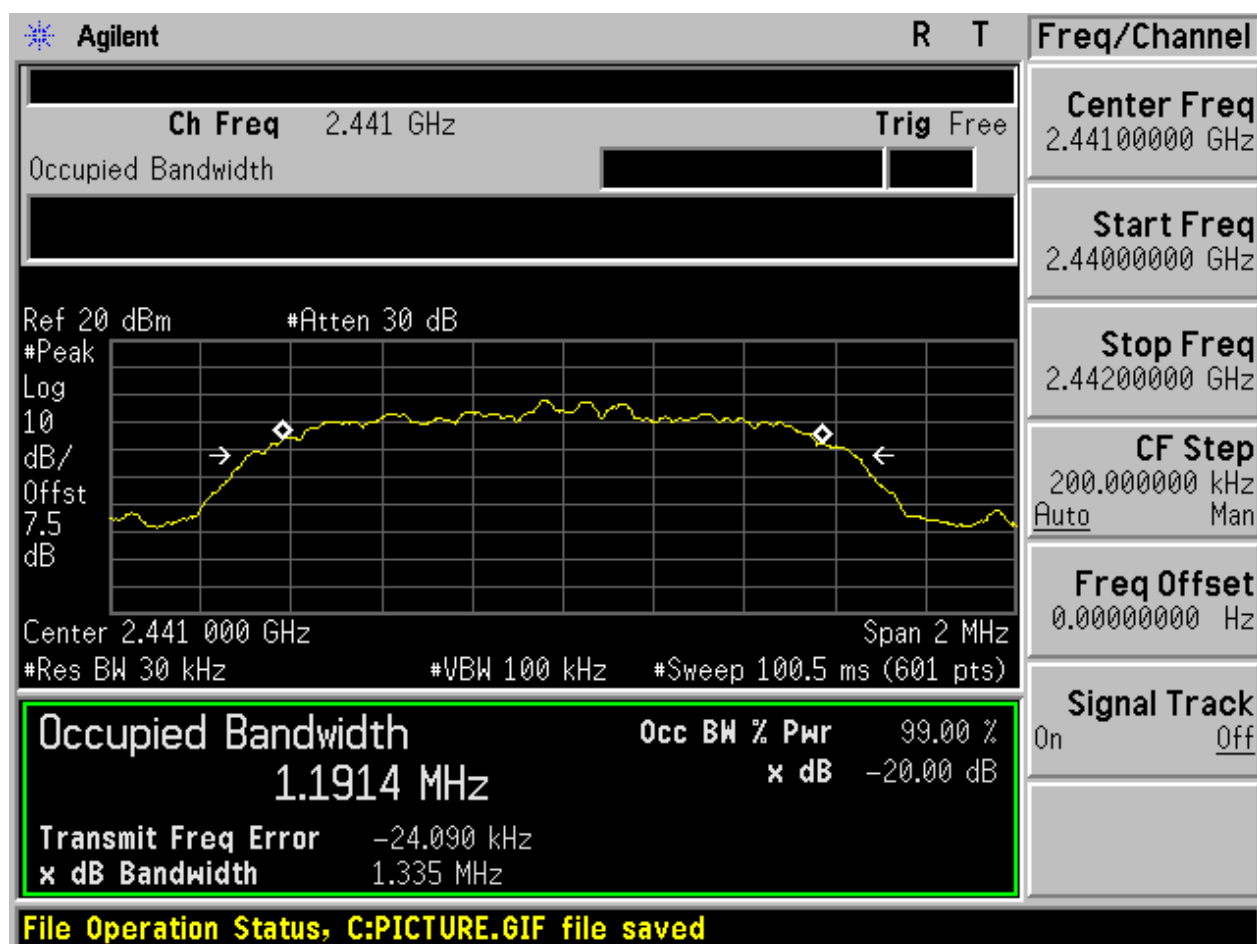


2.4 TM2_2DH5_Ch0

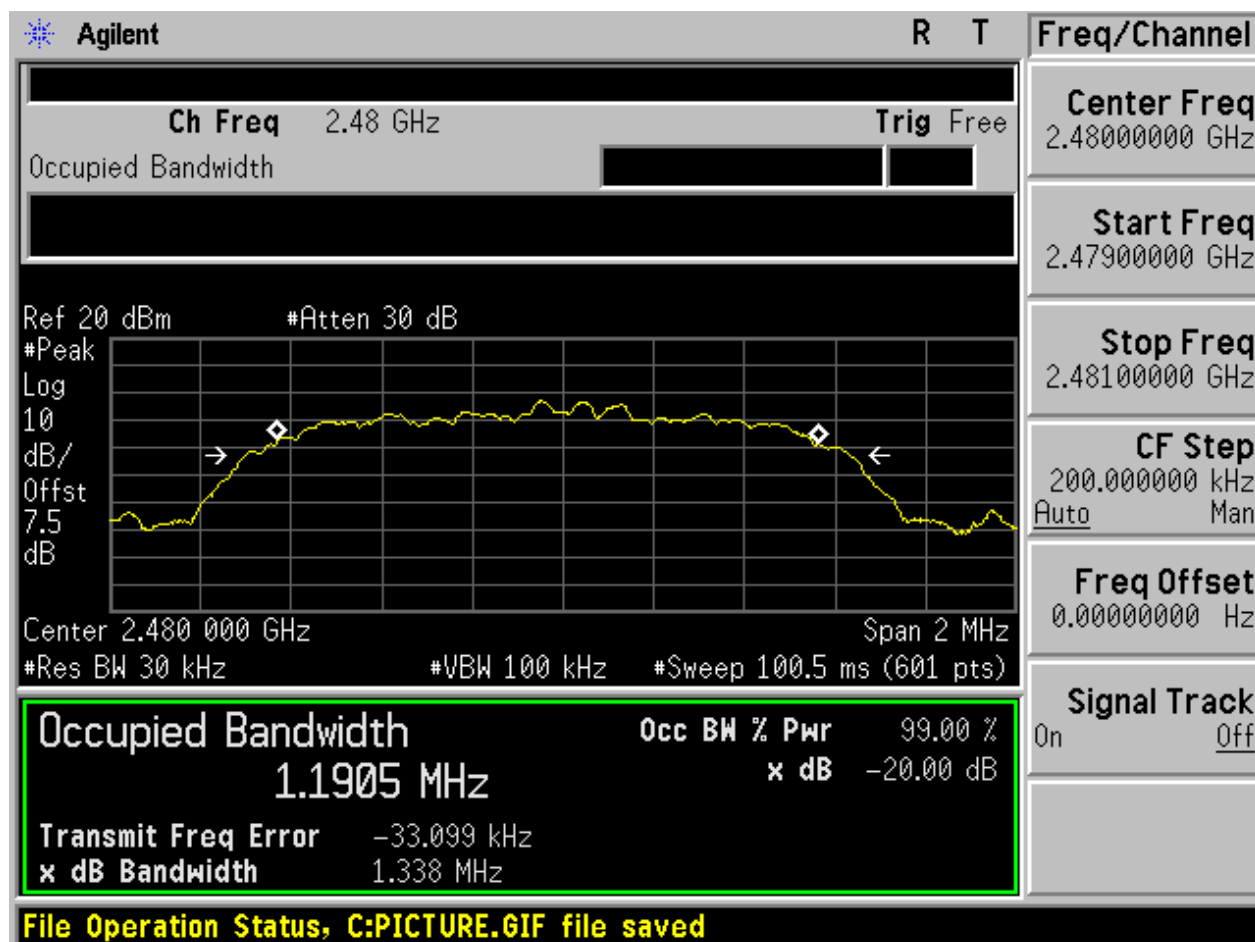




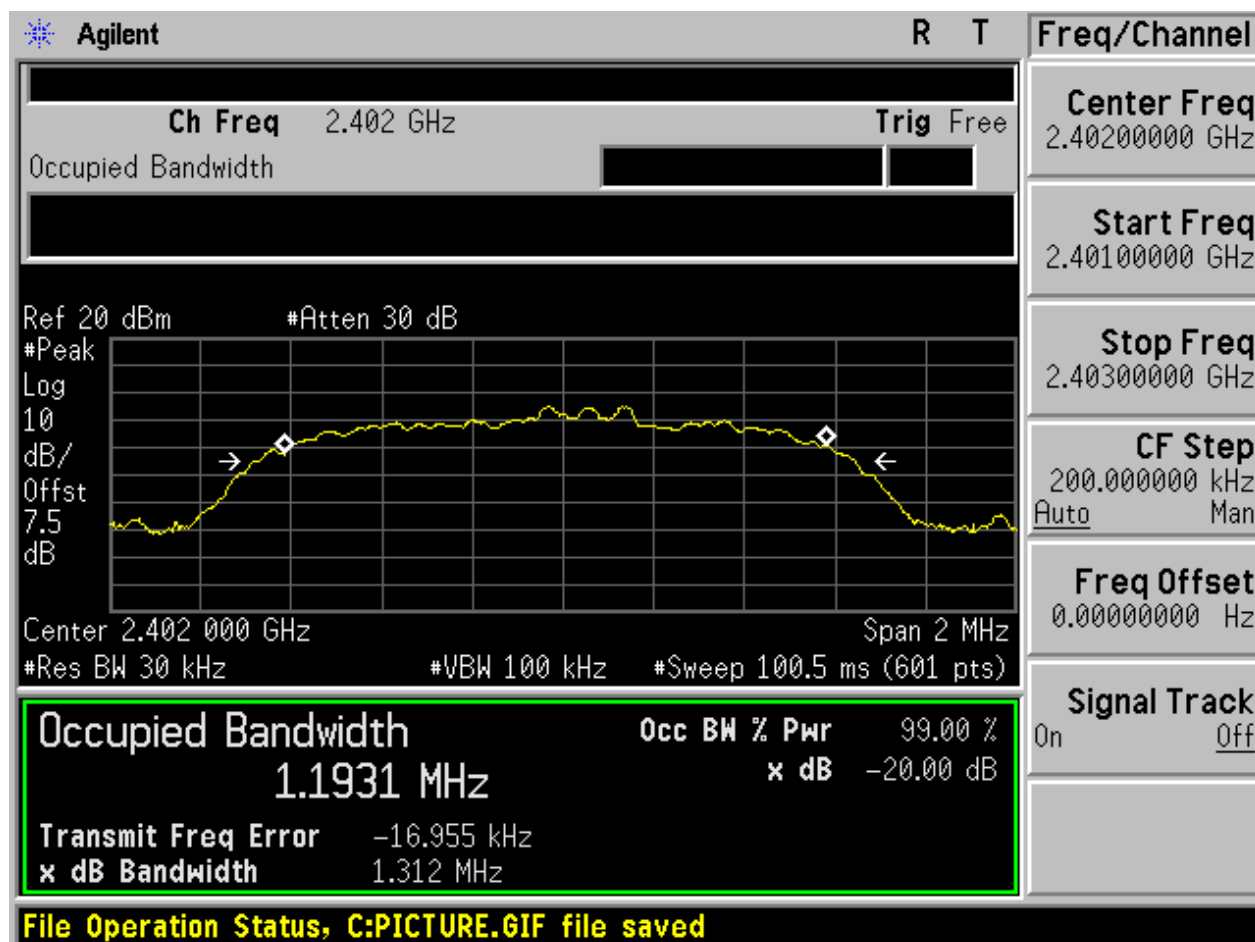
2.5 TM2_2DH5_Ch39



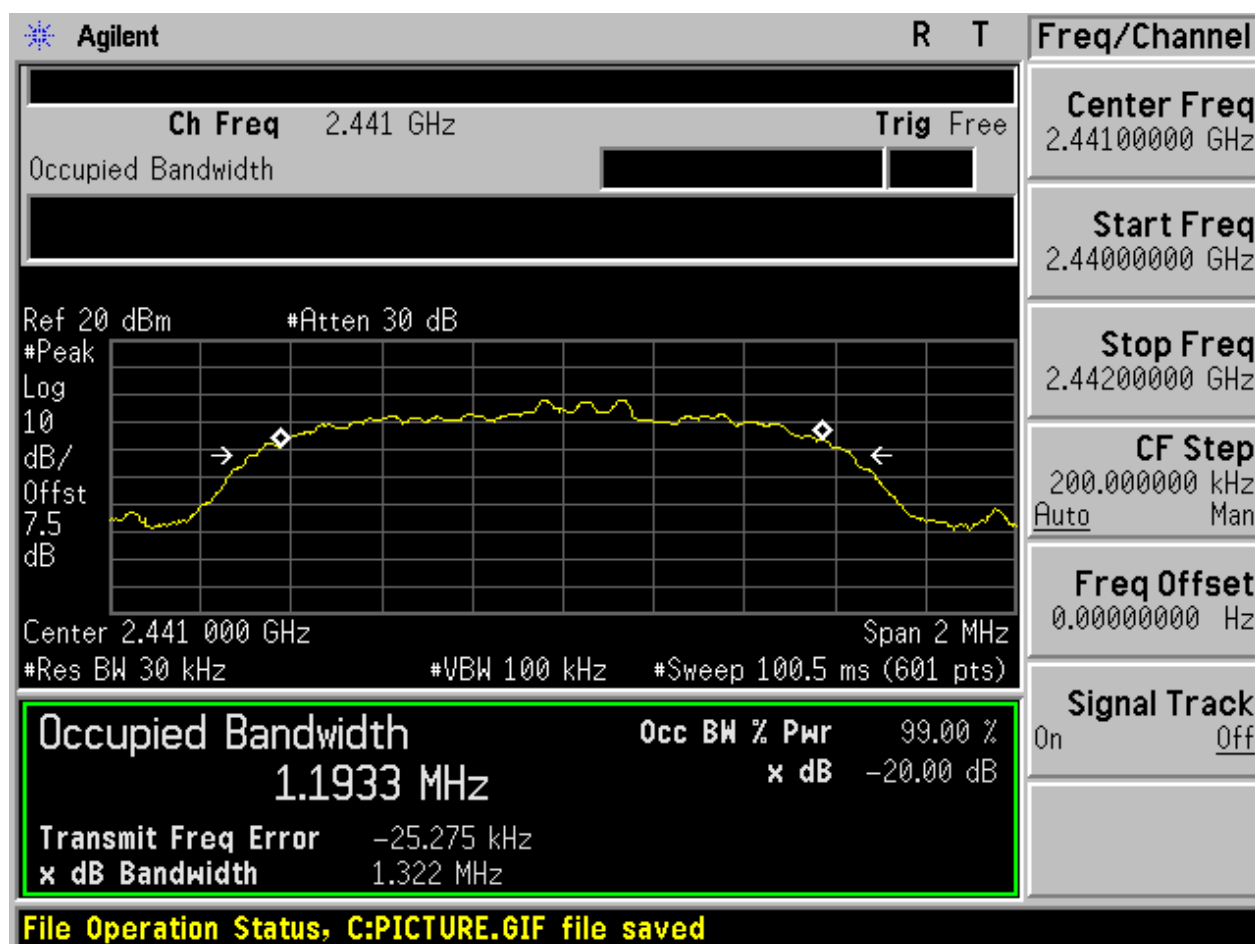
2.6 TM2_2DH5_Ch78



2.7 TM3_3DH5_Ch0



2.8 TM3_3DH5_Ch39



2.9 TM3_3DH5_Ch78



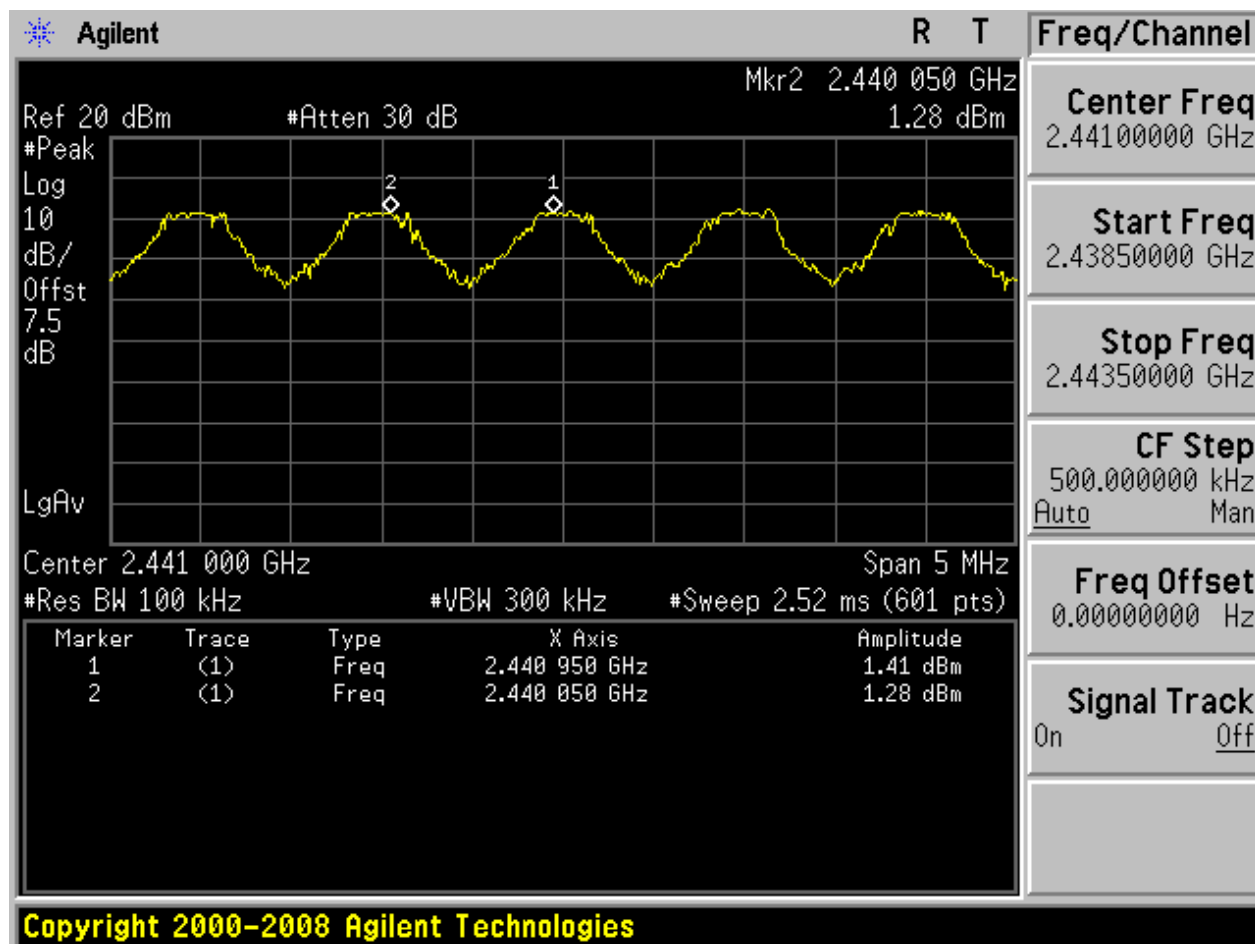
Appendix B: Carrier Frequency Separation

1 Result Table

EUT Conf.	Carrier Frequency Separation [MHz]	Verdict
TM1_DH5_Hop	0.900	Pass
TM2_2DH5_Hop	1.350	Pass
TM3_3DH5_Hop	1.400	Pass

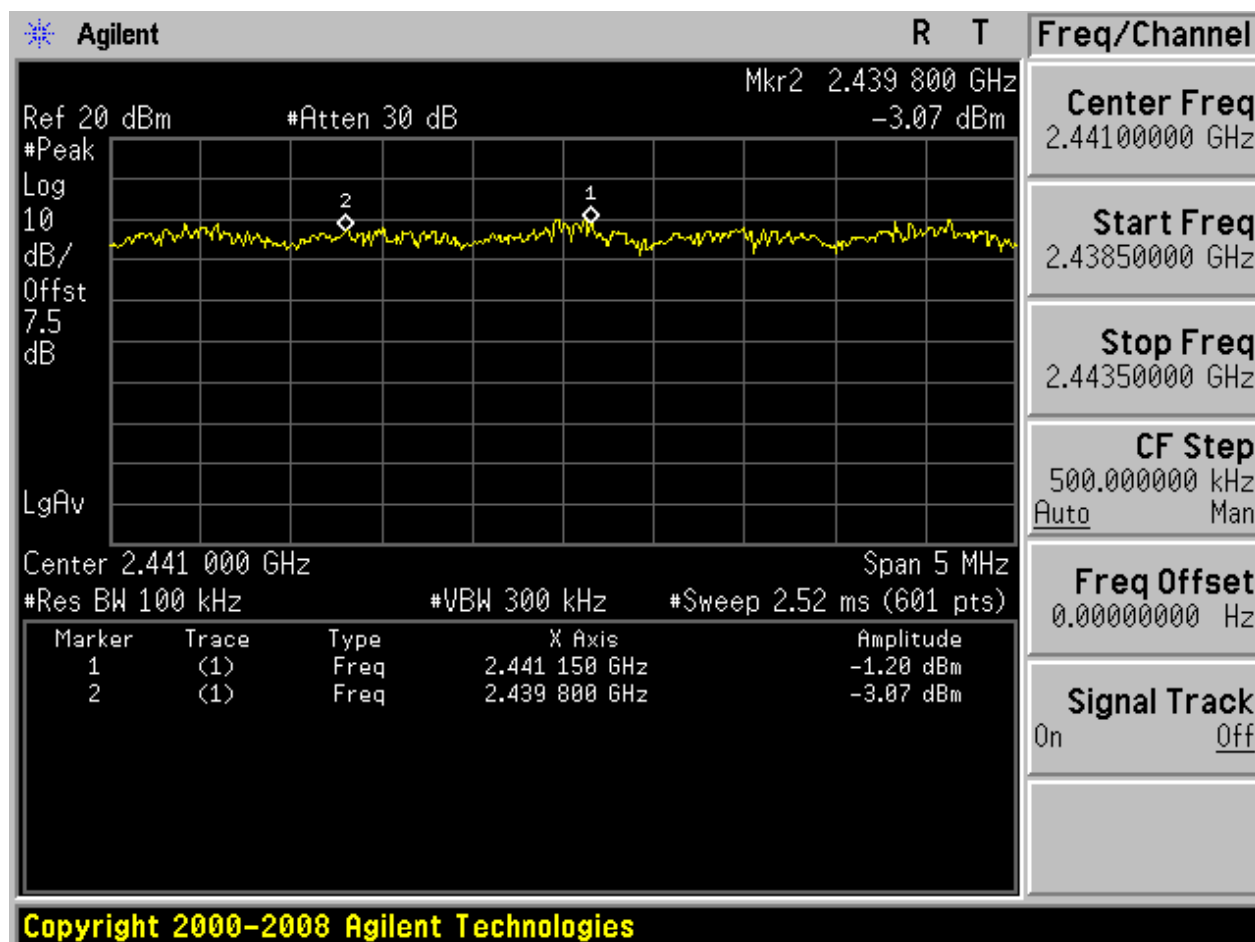
2 Test Plot

2.1 TM1_DH5_Hop

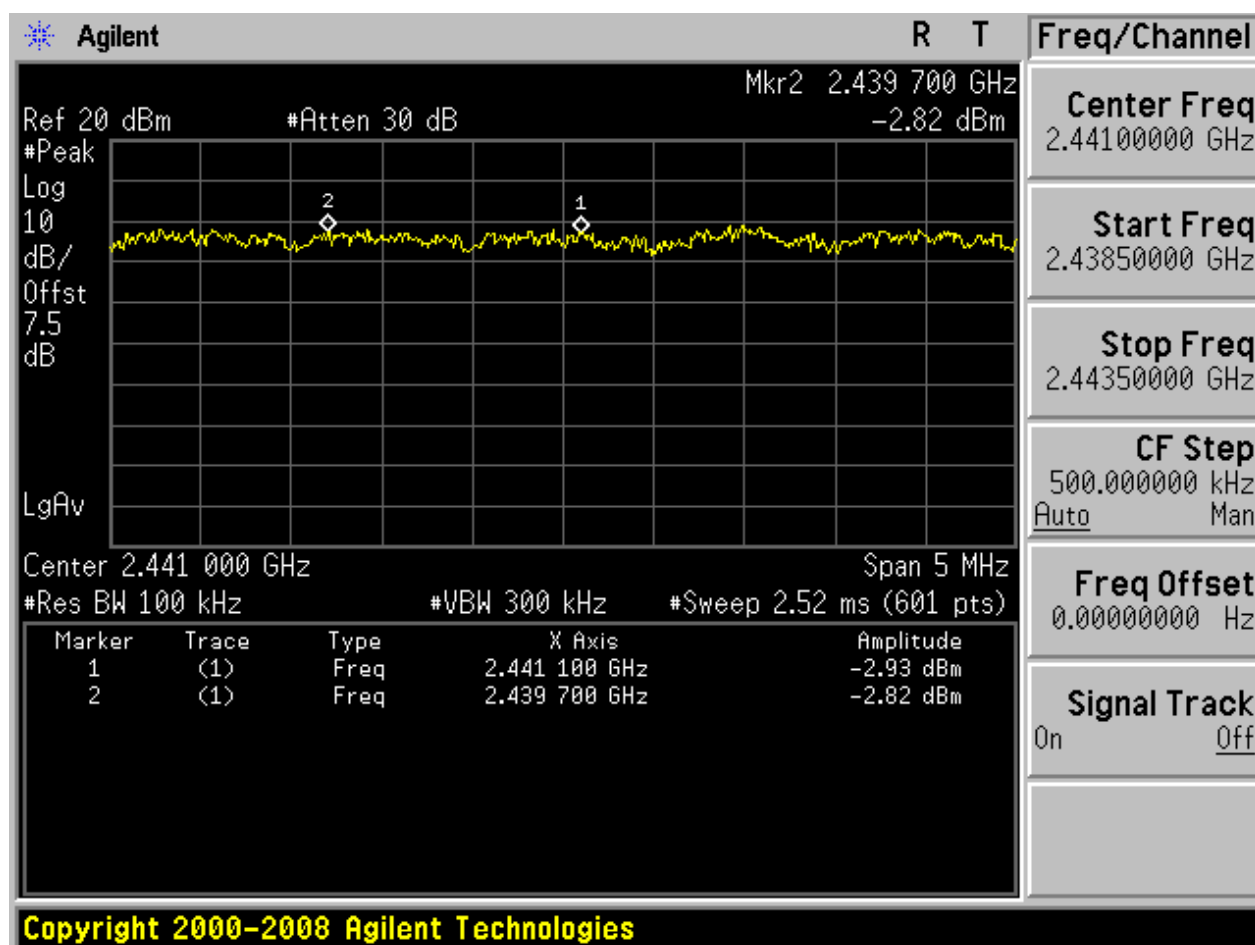




2.2 TM2_2DH5_Hop



2.3 TM3_3DH5_Hop



Appendix C: Number of Hopping Channel

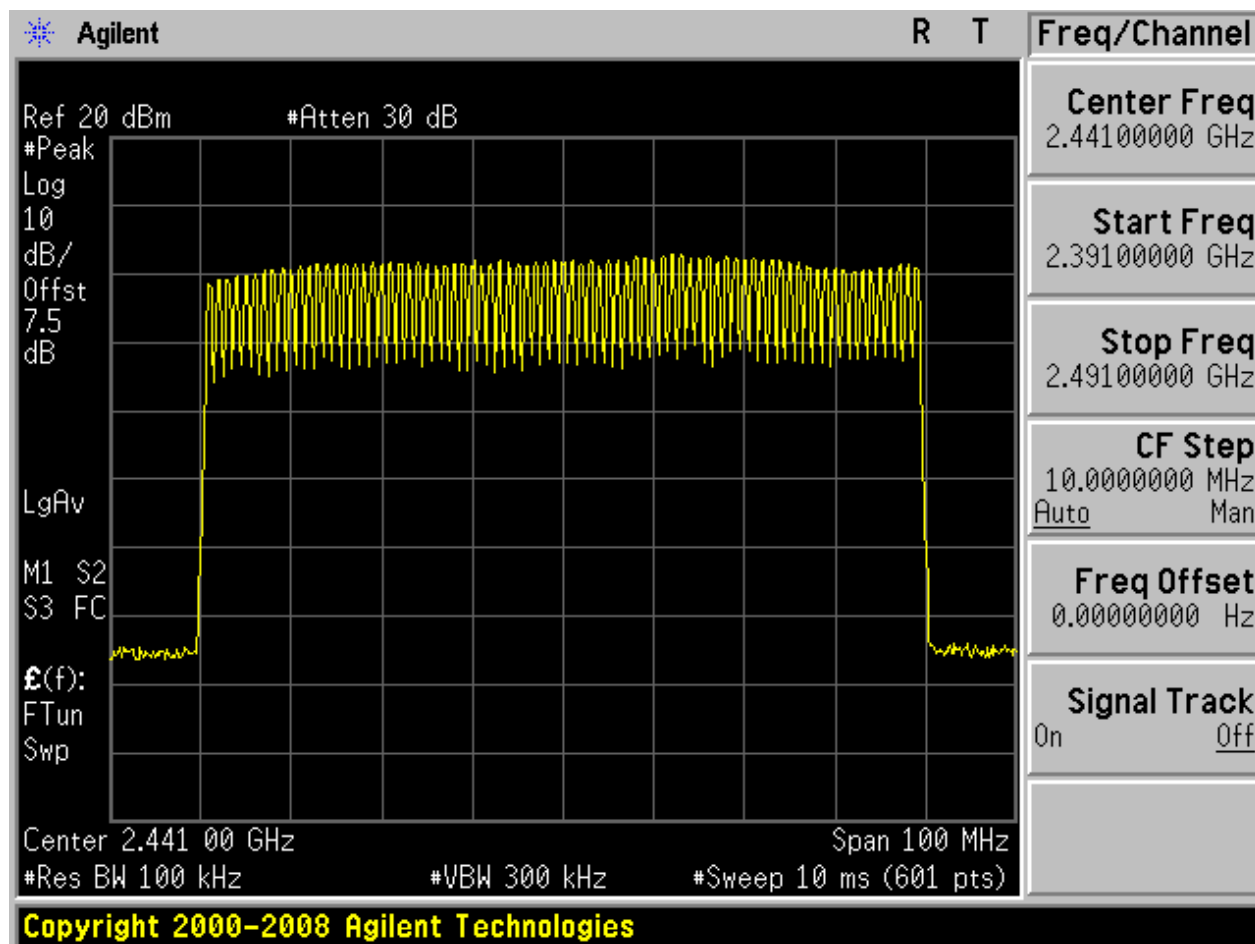
1 Result Table

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



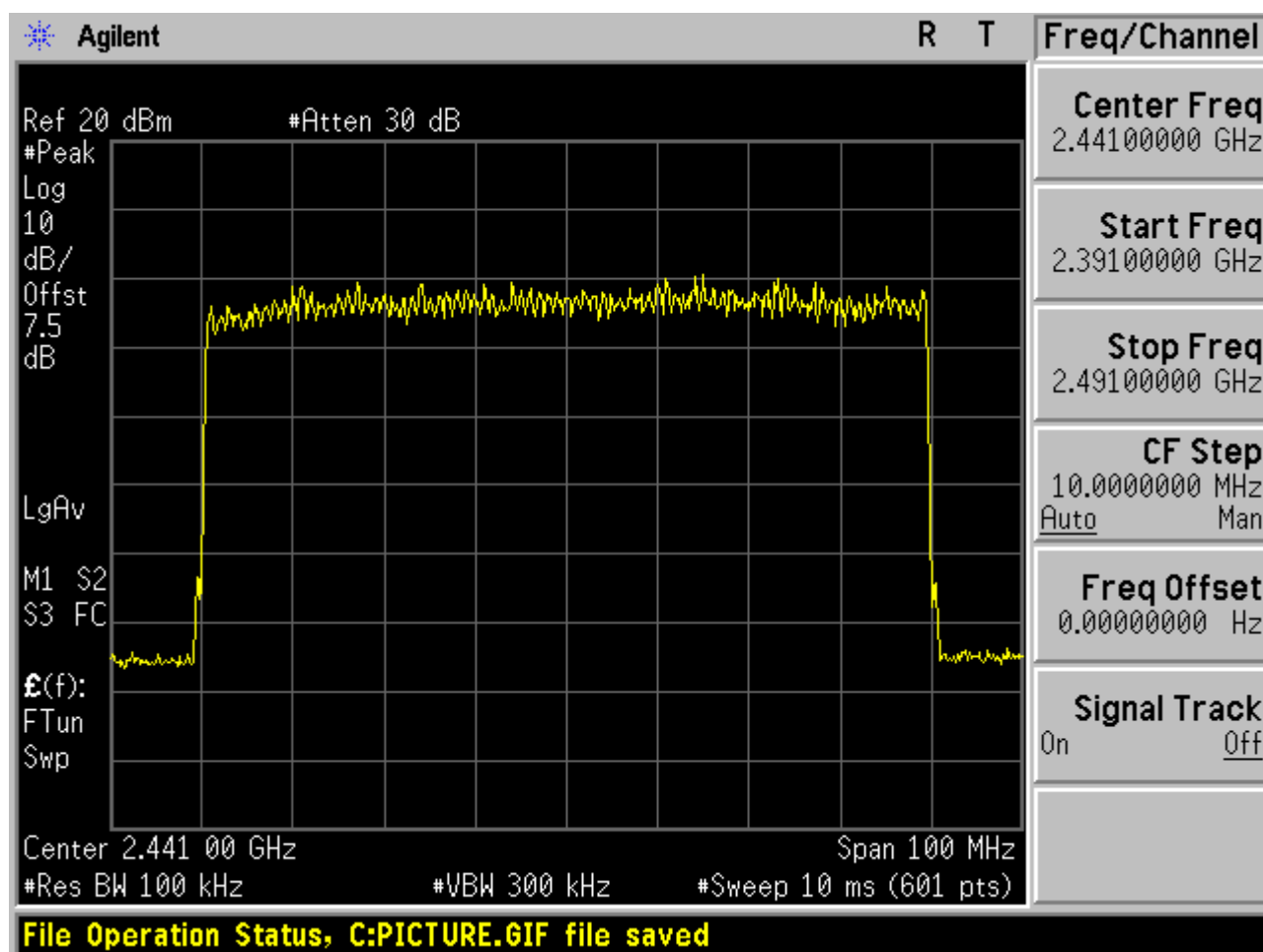
2 Test Plot

2.1 TM1_DH5_Hop

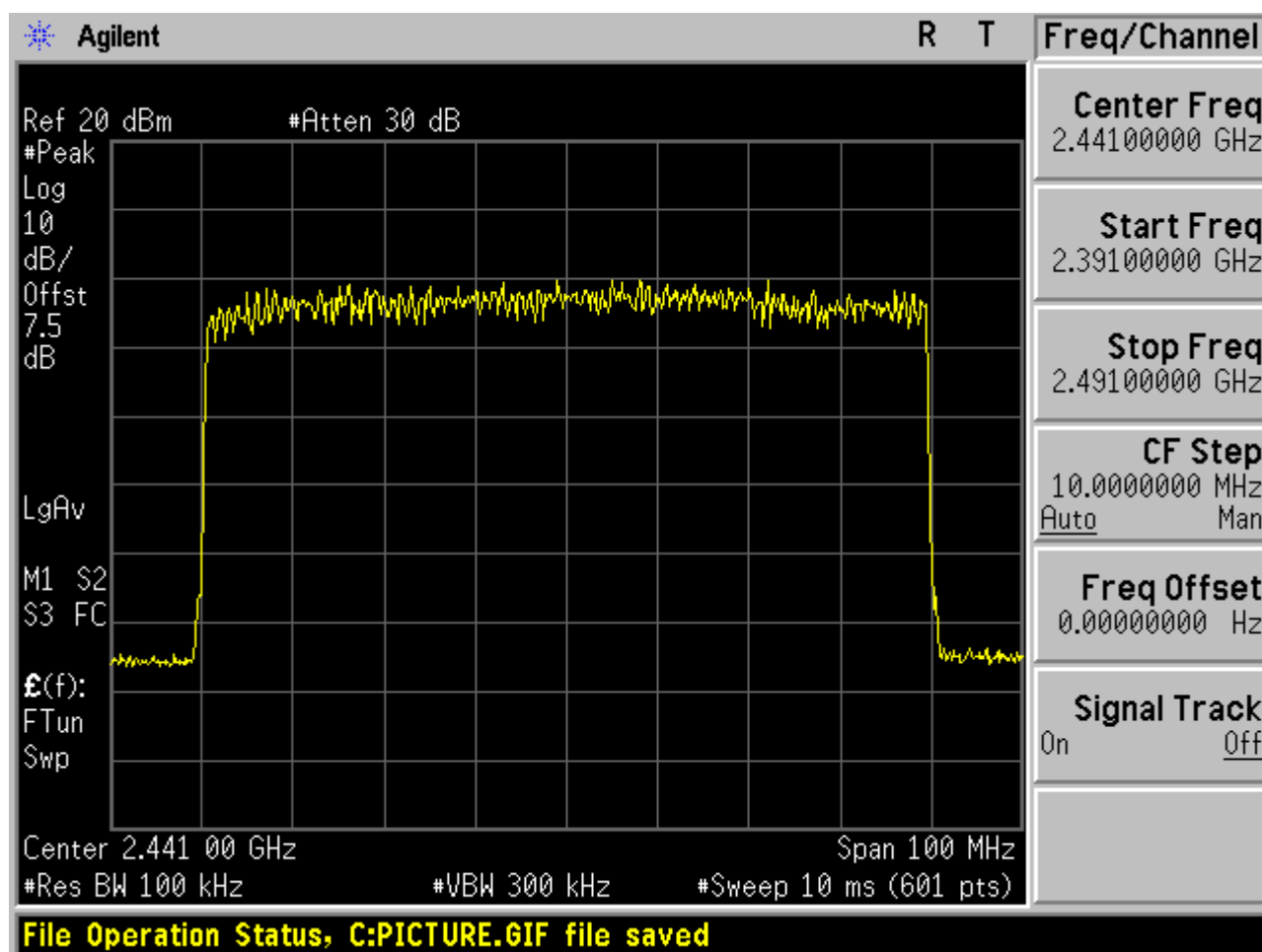




2.2 TM2_2DH5_Hop



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:

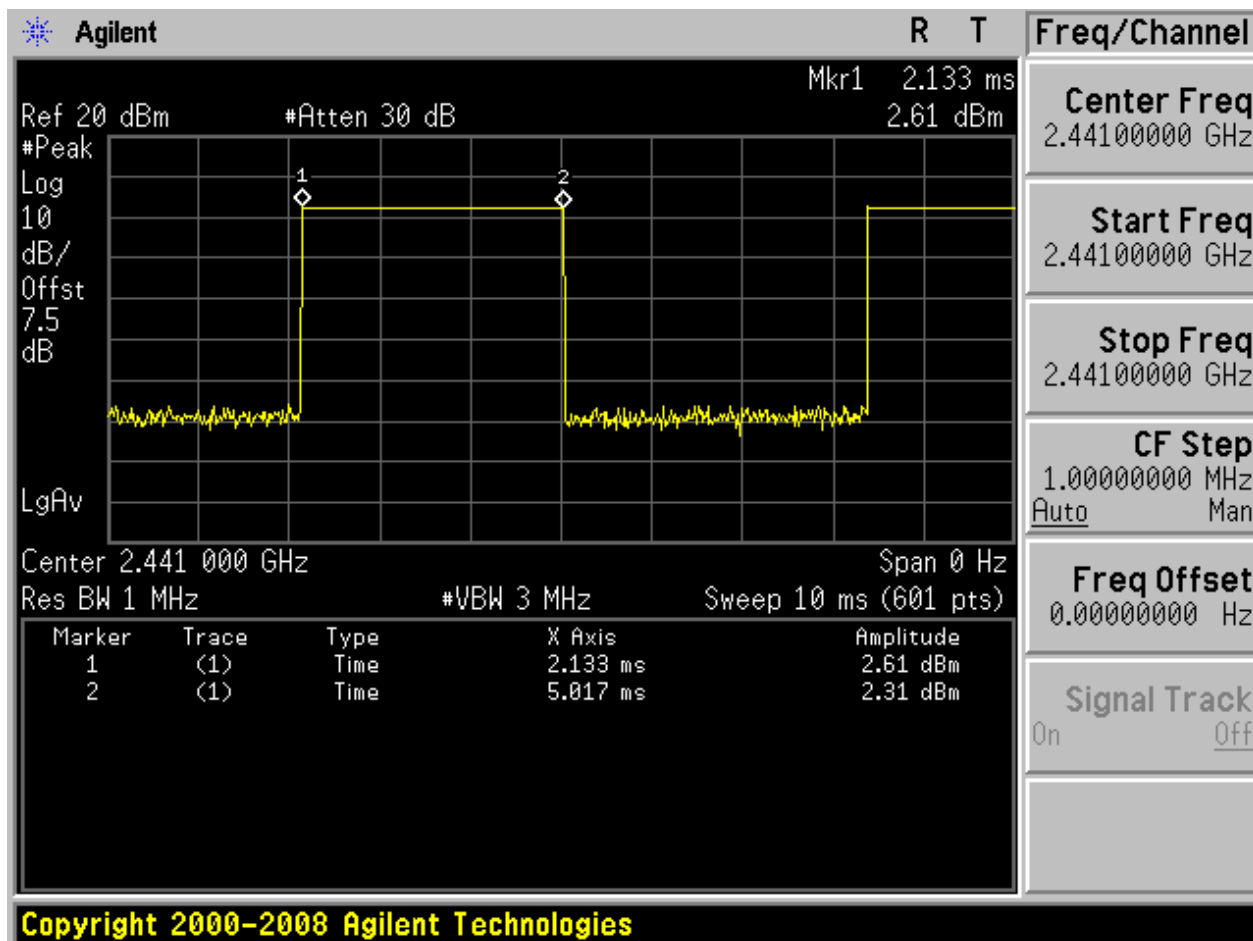
- The duration for dwell time calculation: $0.4 \text{ [s]} * \text{hopping number} = 0.4 \text{ [s]} * 79 \text{ [ch]} = 31.6 \text{ [s*ch]}$;
- The burst width [ms/hop/ch], which is directly measured, refers to the duration on one channel hop.
- The hops per second for all channels: The selected EUT 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	2.800	106.67	0.299	Pass

2 Test Plot

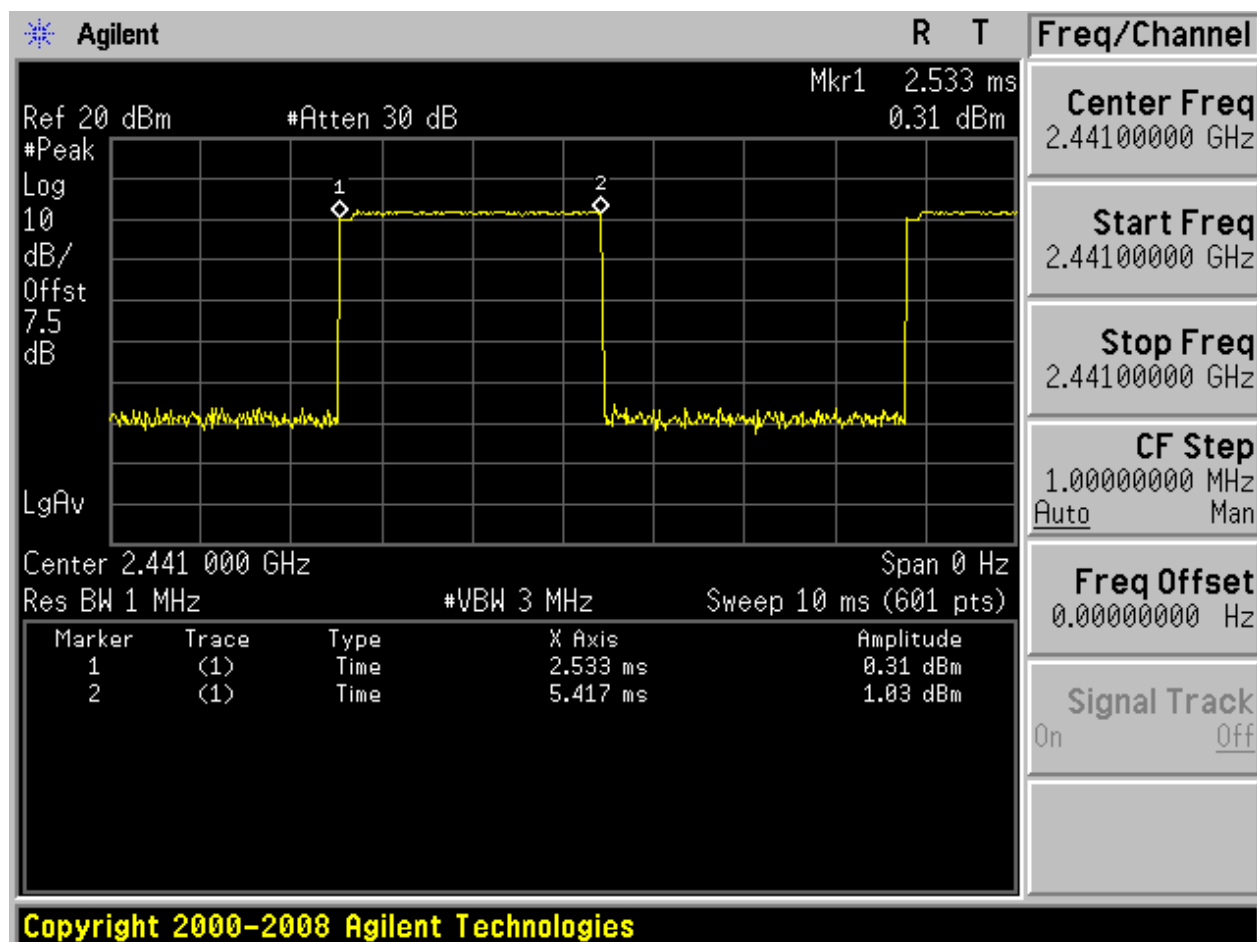
NOTE: The test plots are only for Burst Width measurements.

2.1 TM1_DH5_Ch39



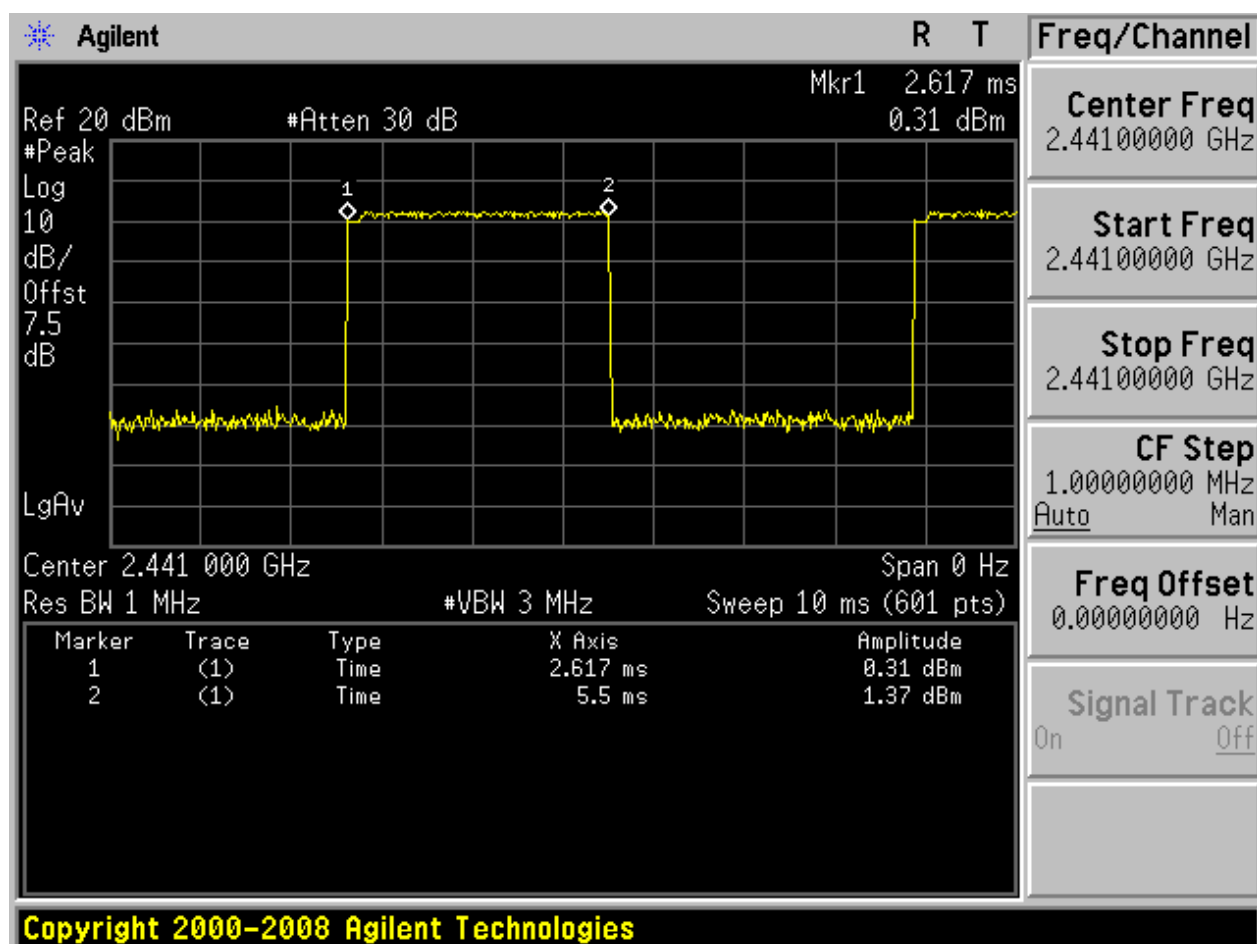


2.2 TM2_2DH5_Ch39





2.3 TM3_3DH5_Ch39



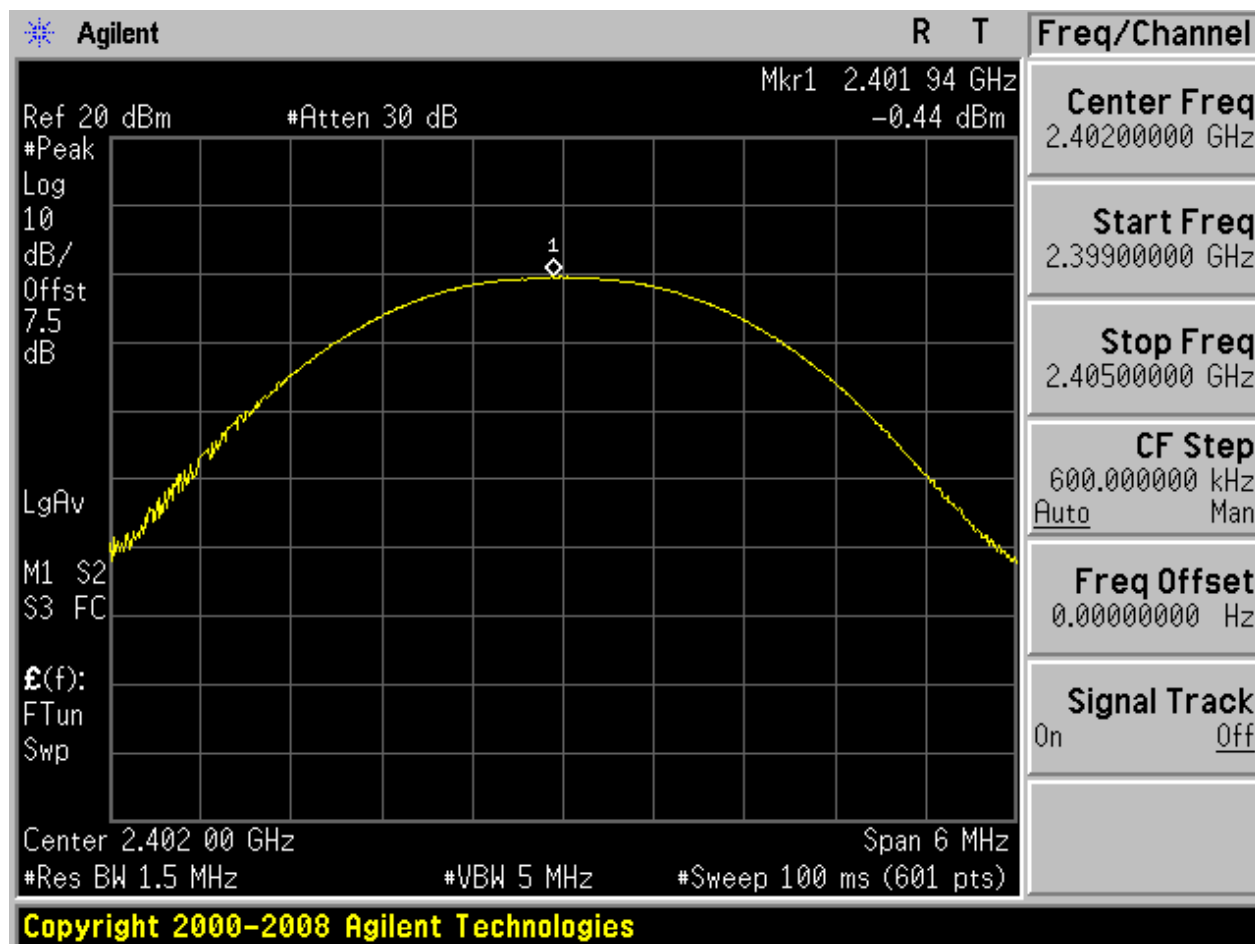
Appendix E: Maximum Peak Conducted Output Power

1 Result Table

EUT Conf.	Max. Peak Power [dBm]	Verdict
TM1_DH5_Ch0	-0.45	Pass
TM1_DH5_Ch39	2.7	Pass
TM1_DH5_Ch78	1.87	Pass
TM2_2DH5_Ch0	-0.7	Pass
TM2_2DH5_Ch39	2.39	Pass
TM2_2DH5_Ch78	1.56	Pass
TM3_3DH5_Ch0	-0.34	Pass
TM3_3DH5_Ch39	2.77	Pass
TM3_3DH5_Ch78	1.99	Pass

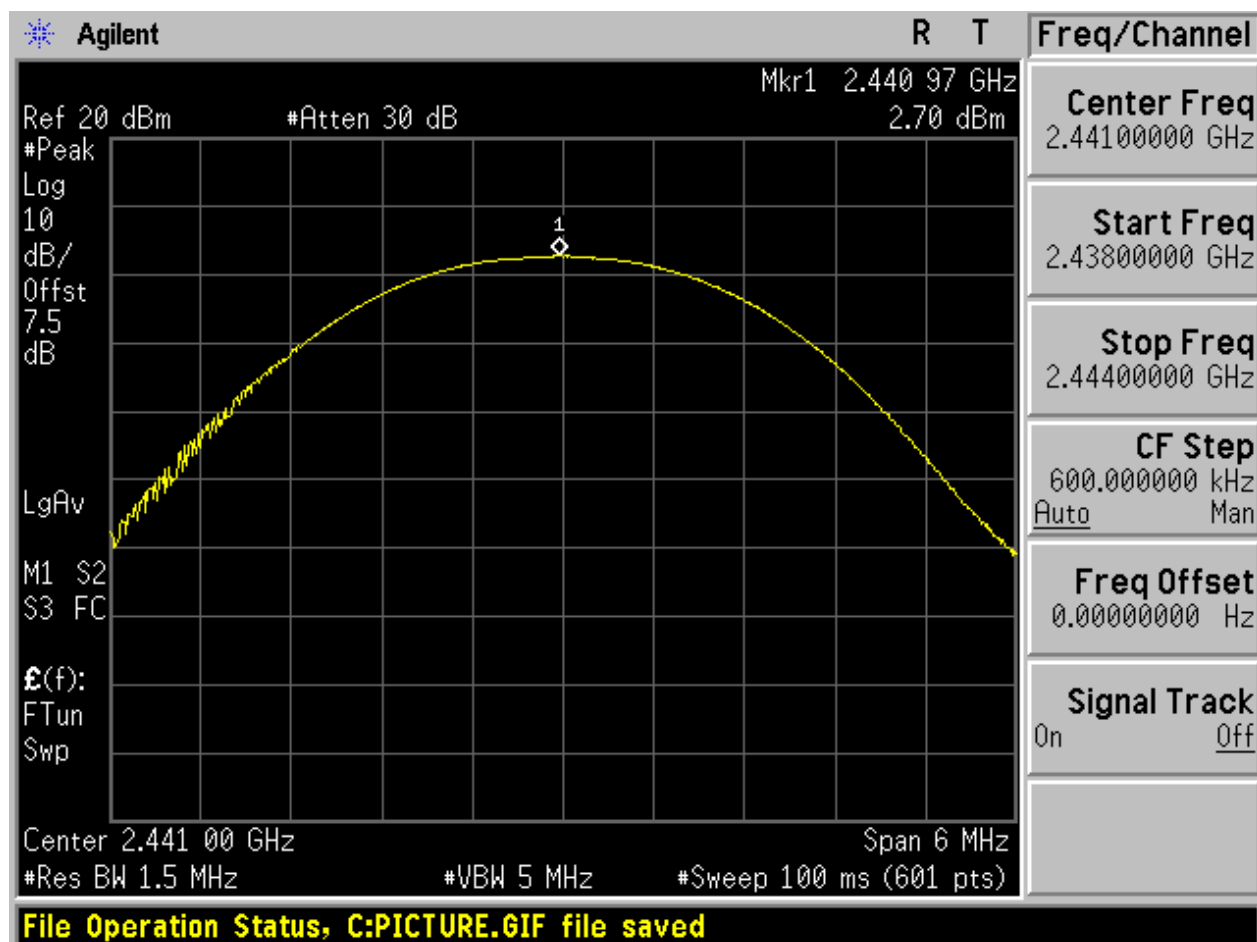
2 Test Plot

2.1 TM1_DH5_Ch0

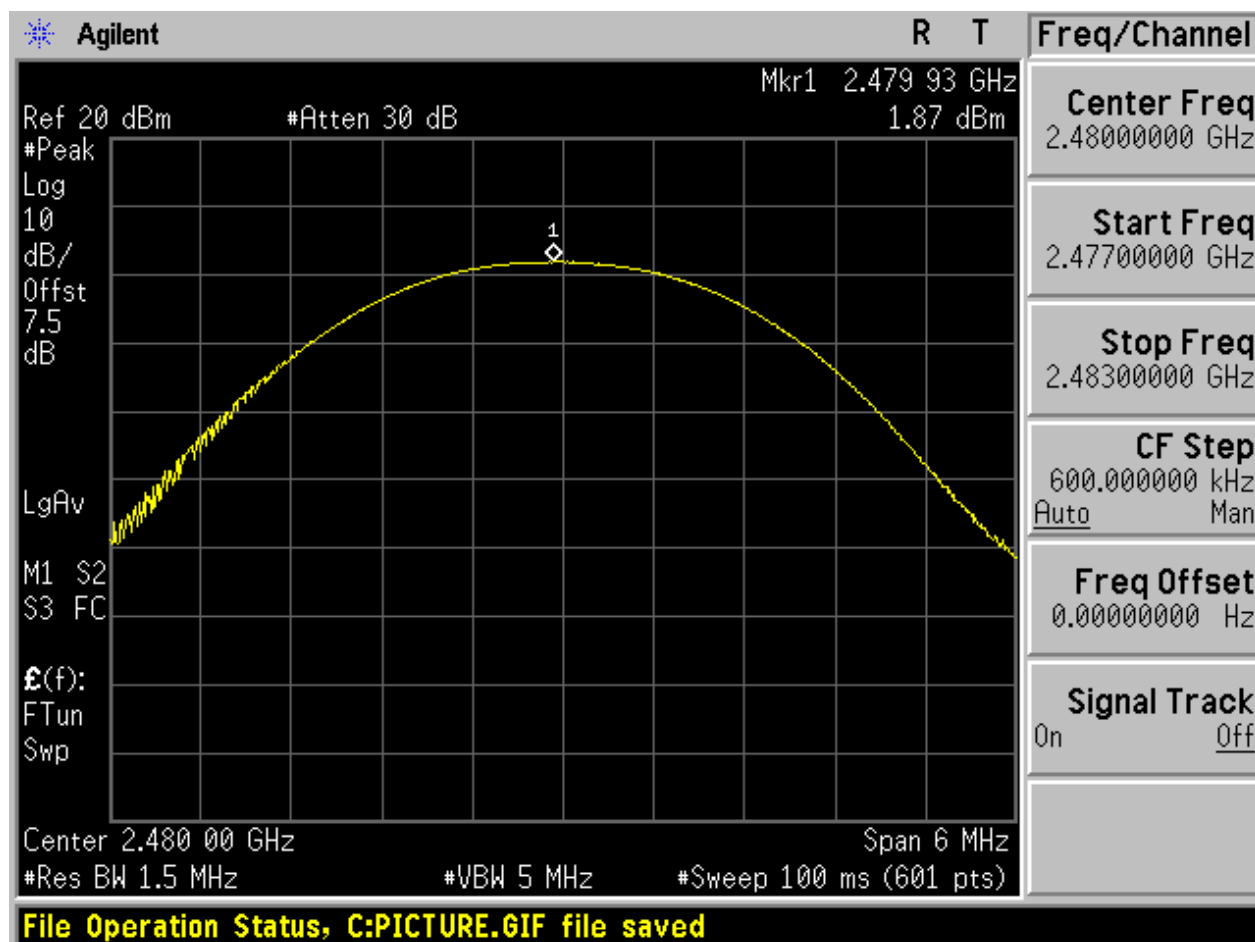




2.2 TM1_DH5_Ch39

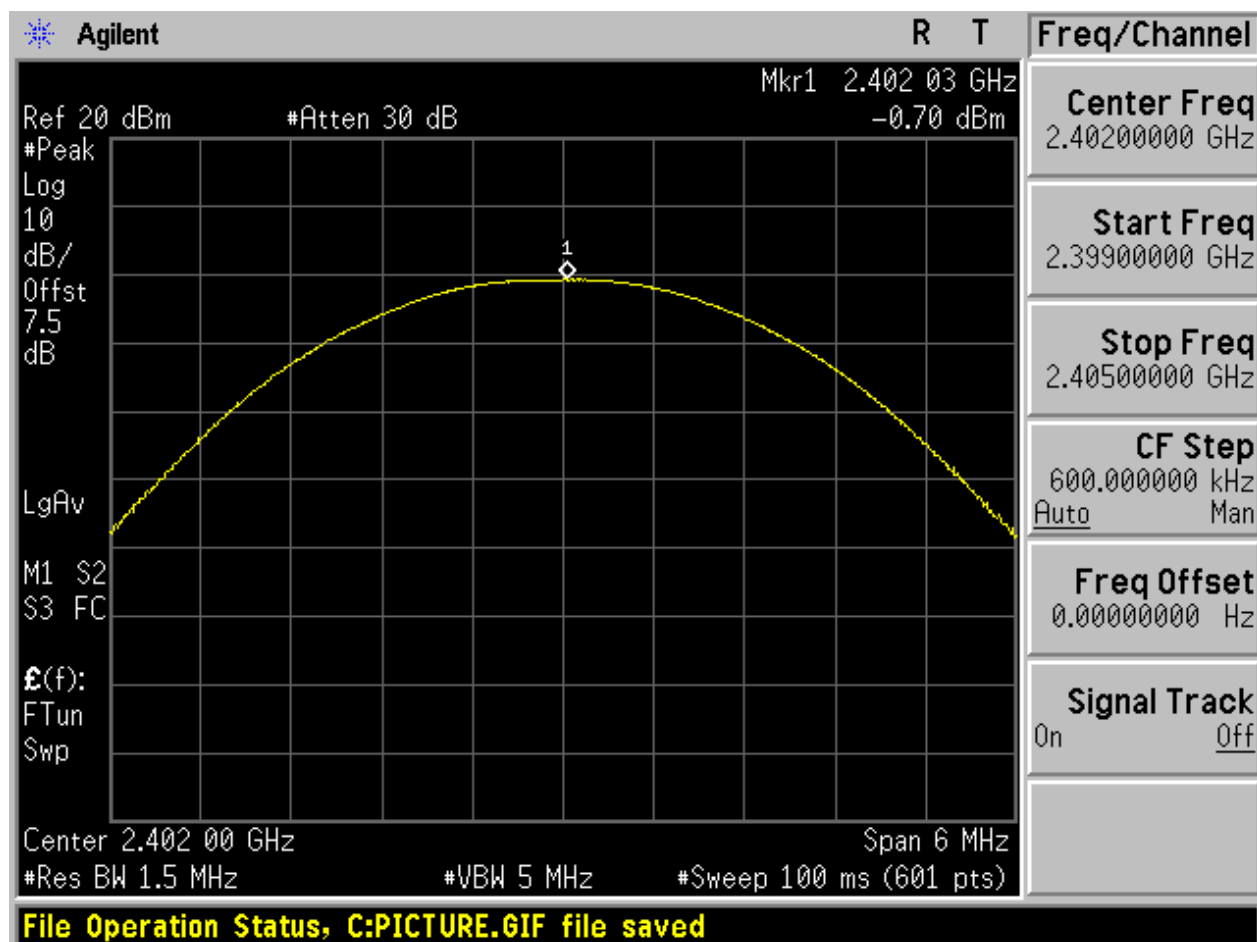


2.3 TM1_DH5_Ch78

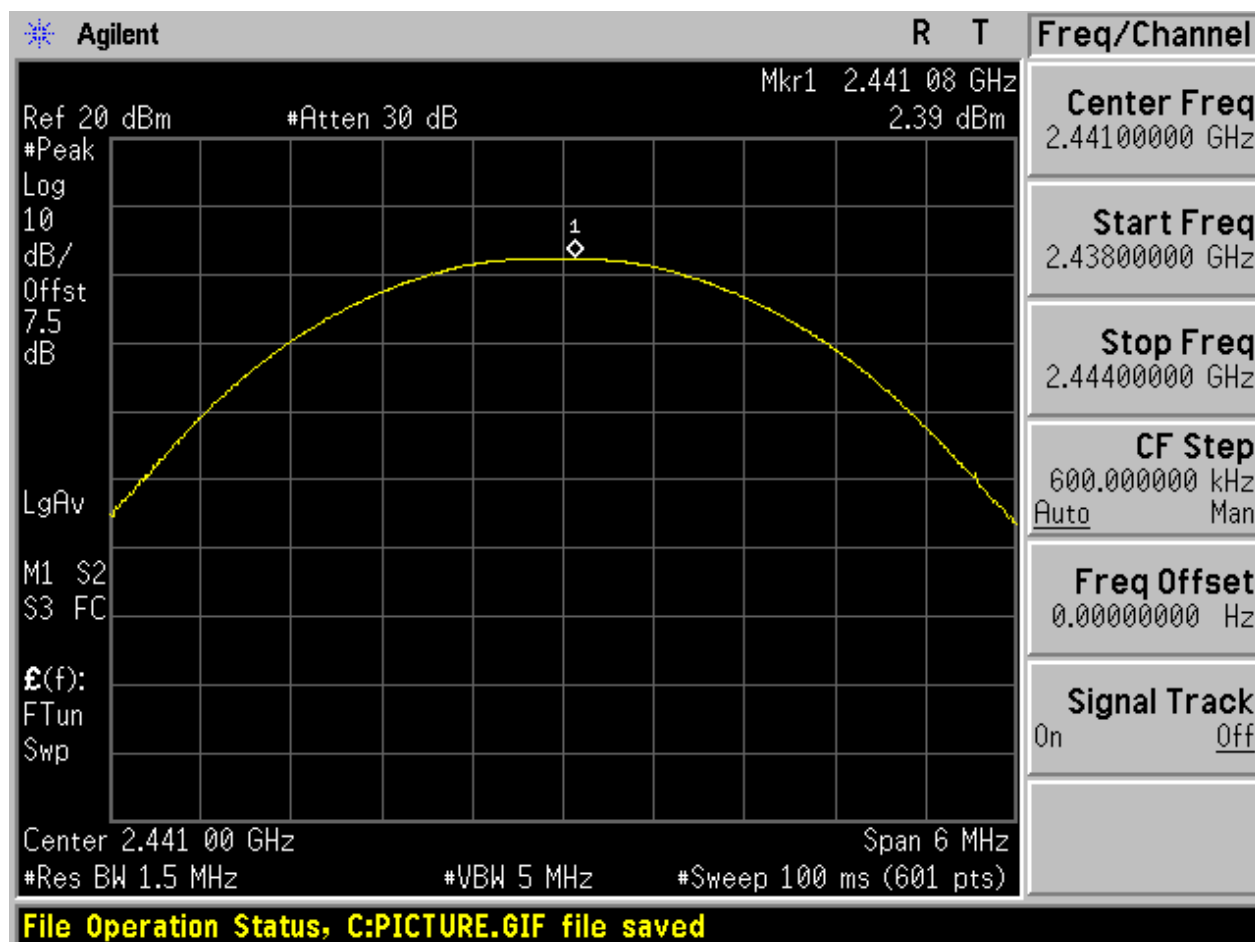




2.4 TM2_2DH5_Ch0

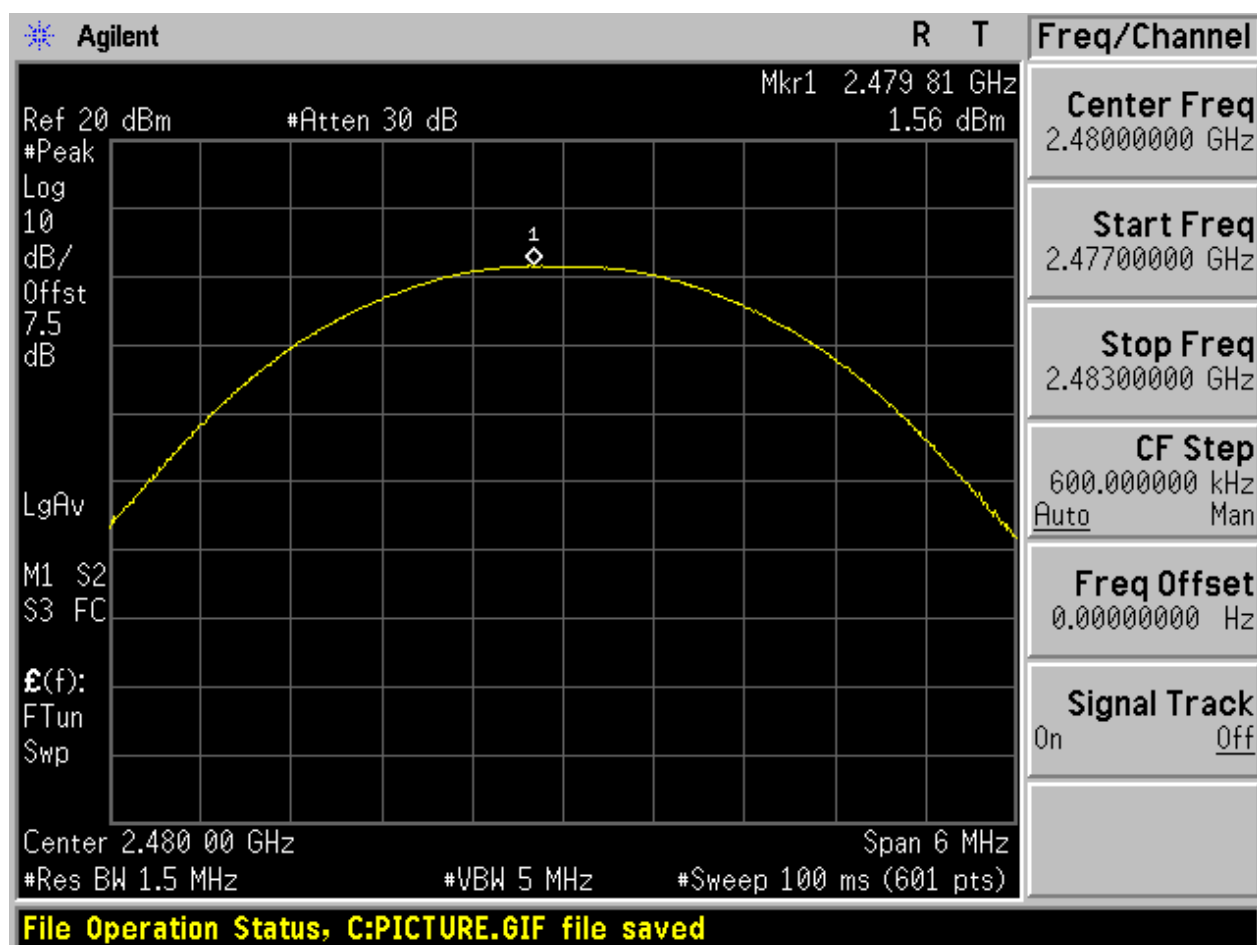


2.5 TM2_2DH5_Ch39



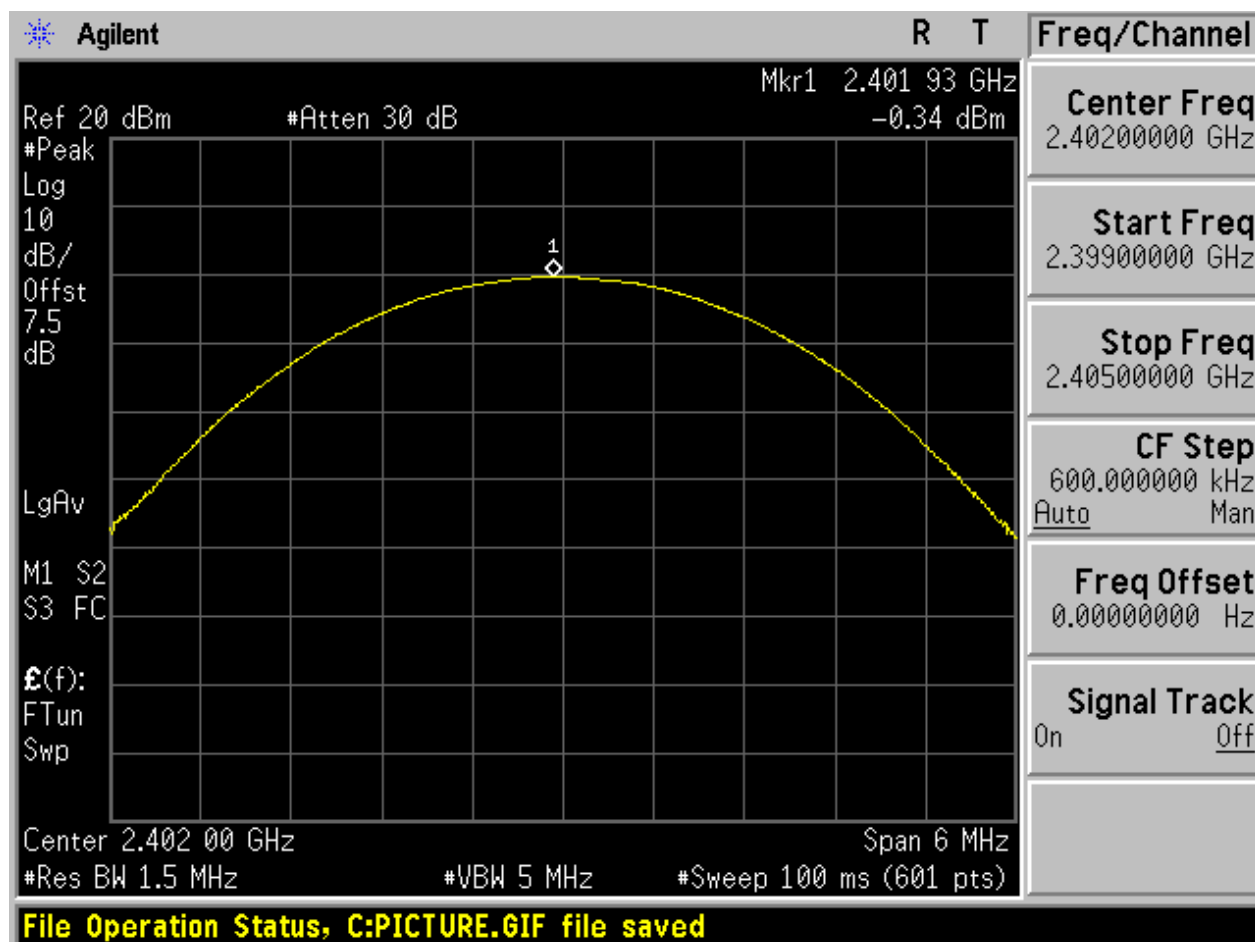


2.6 TM2_2DH5_Ch78



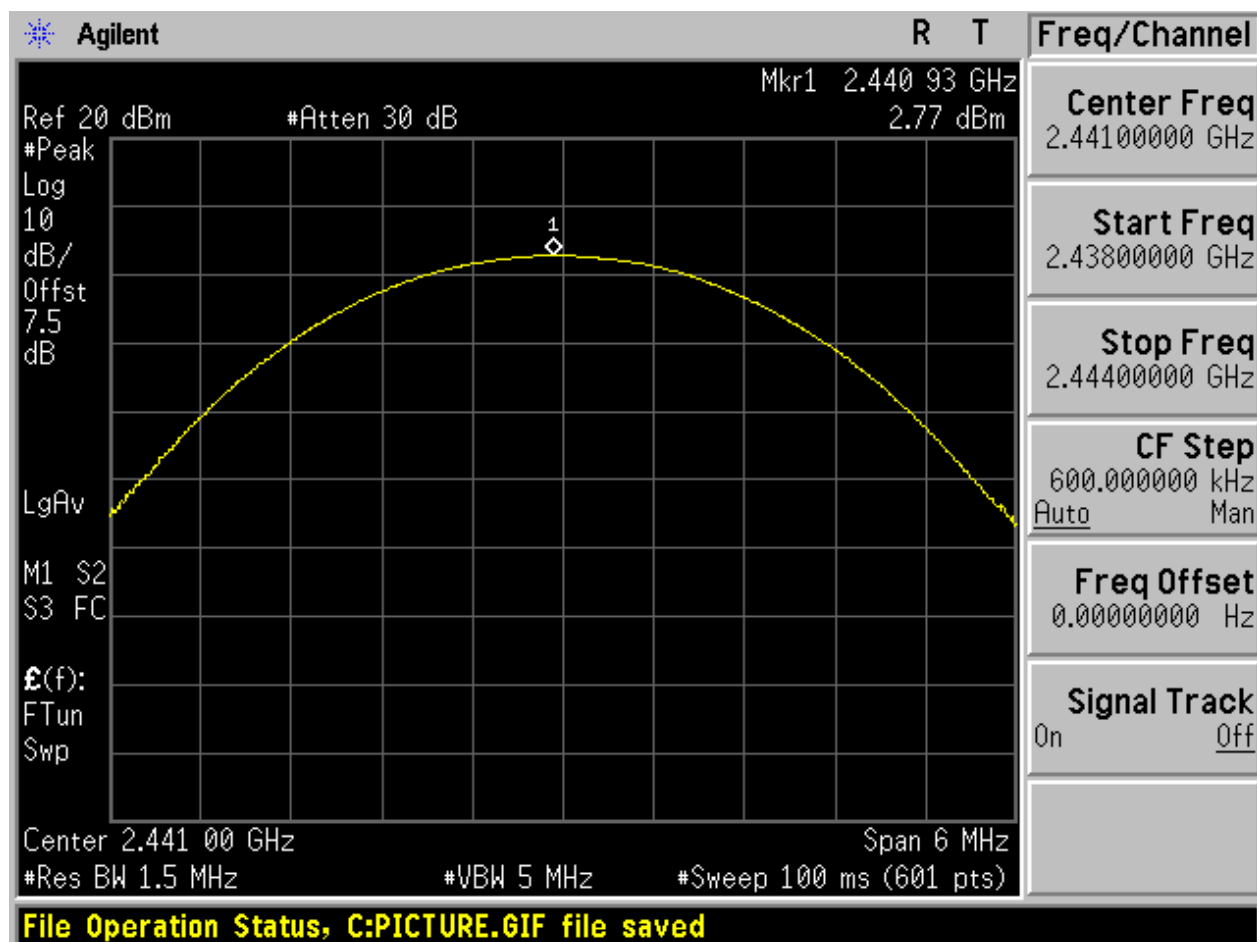


2.7 TM3_3DH5_Ch0

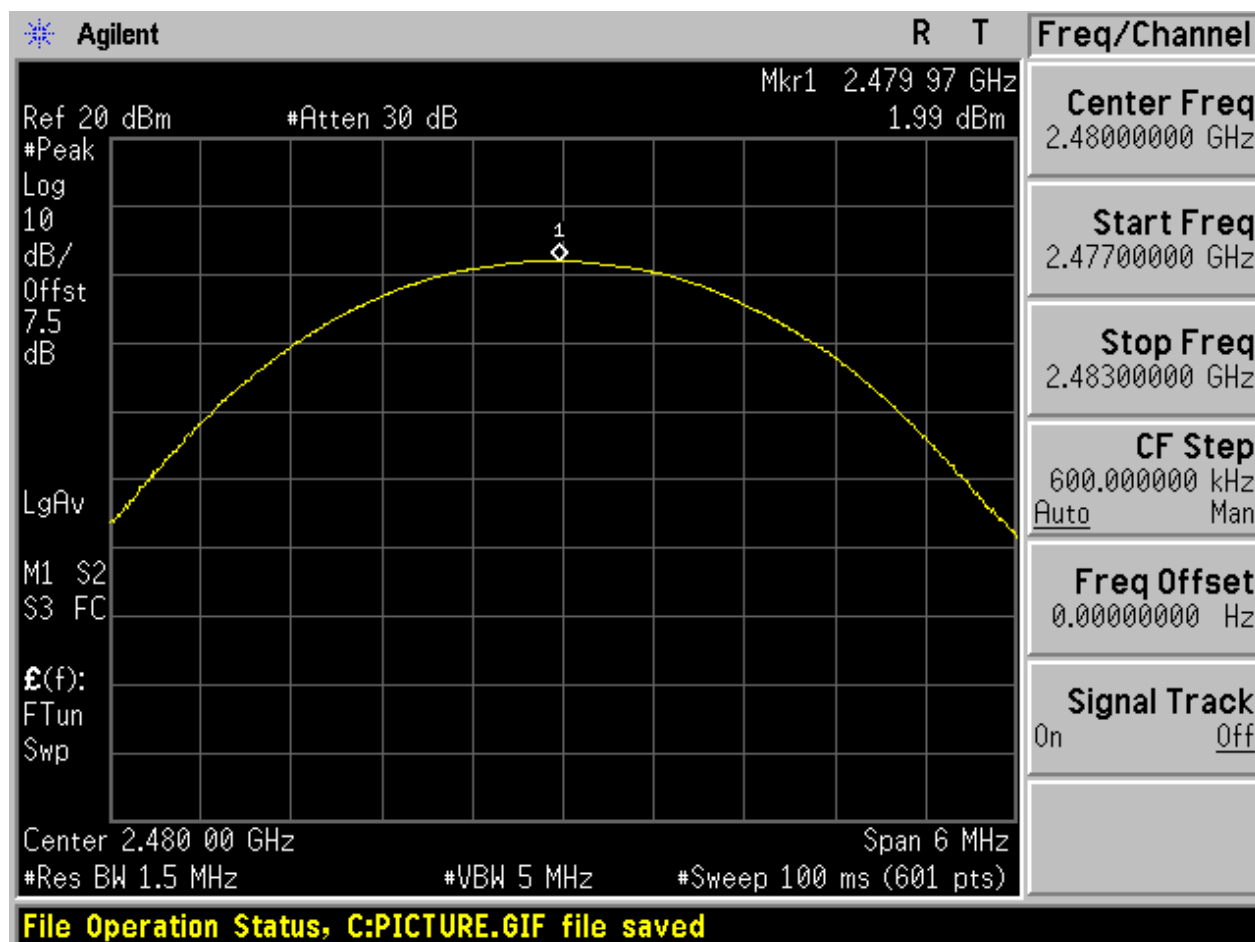




2.8 TM3_3DH5_Ch39



2.9 TM3_3DH5_Ch78



Appendix F: Average Power

1 Result Table

EUT Conf.	Average Power [dBm]	Verdict
TM1_DH5_Ch0	-3.81	Pass
TM1_DH5_Ch39	-0.50	Pass
TM1_DH5_Ch78	-1.93	Pass
TM2_2DH5_Ch0	-5.91	Pass
TM2_2DH5_Ch39	-2.66	Pass
TM2_2DH5_Ch78	-4.48	Pass
TM3_3DH5_Ch0	-5.92	Pass
TM3_3DH5_Ch39	-2.66	Pass
TM3_3DH5_Ch78	-4.47	Pass

Appendix G: Band edge spurious emission

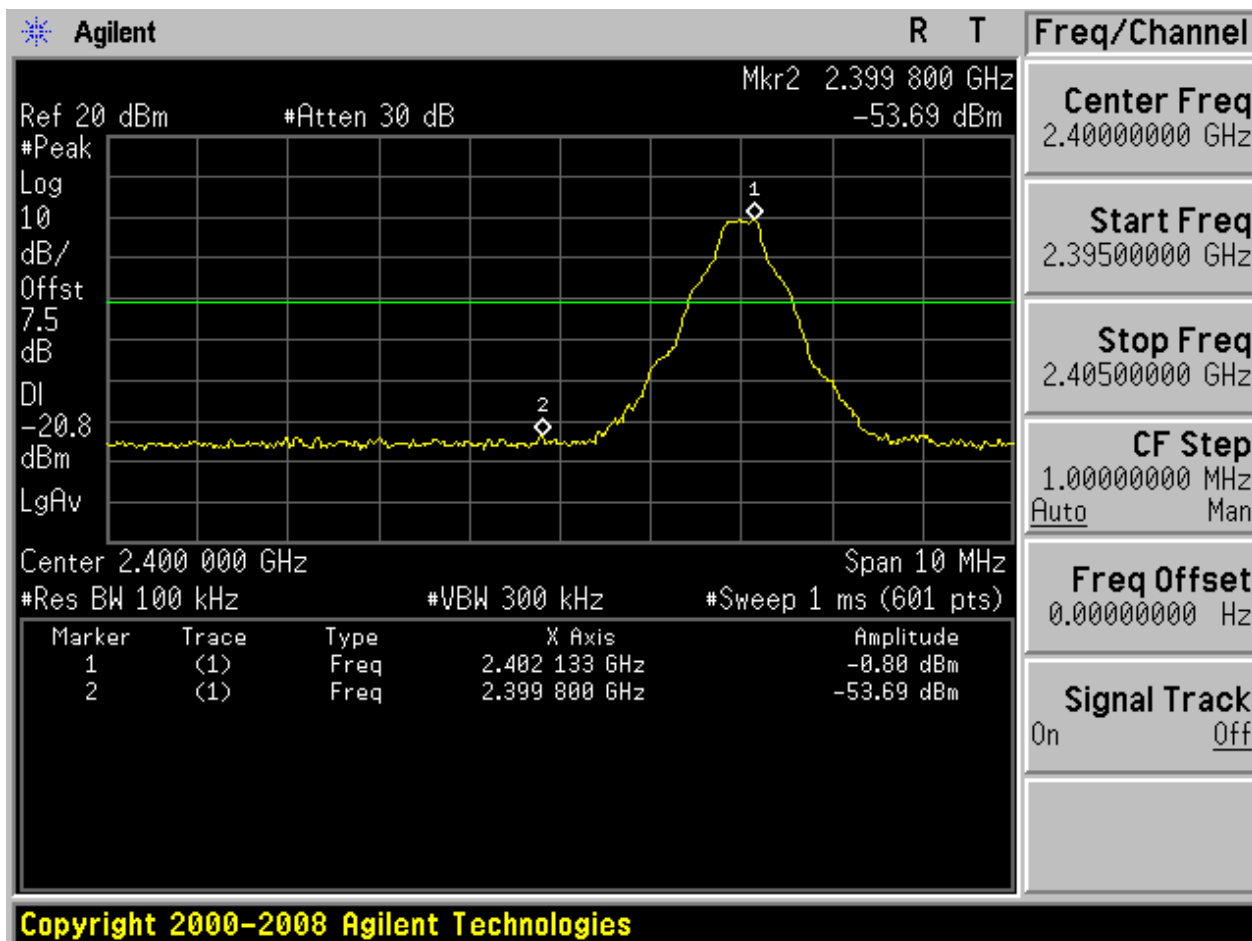
2 Result Table

EUT Conf.	Channel No.	Carrier Frequency [MHz]	Max. Spurious Level [dBm]	Frequency Hopping	Carrier Power [dBm]	Limit [dBm]	Result
TM1_DH5_Ch0	0	2402	-53.69	Off	-0.80	-20.80	Pass
	-	-	-54.67	On	-0.71	-20.71	Pass
TM1_DH5_Ch78	78	2480	-54.17	Off	1.44	-18.56	Pass
	-	-	-54.08	On	1.02	-18.98	Pass
TM2_2DH5_Ch0	0	2402	-54.48	Off	-3.05	-23.05	Pass
	-	-	-54.63	On	-3.68	-23.68	Pass
TM2_2DH5_Ch78	78	2480	-54.03	Off	-1.00	-21.00	Pass
	-	-	-54.06	On	-3.33	-23.33	Pass
TM3_3DH5_Ch0	0	2402	-54.33	Off	-3.10	-23.10	Pass
	-	-	-54.75	On	-4.58	-24.58	Pass
TM3_3DH5_Ch78	78	2480	-54.59	Off	-1.02	-21.02	Pass
	-	-	-53.91	On	-2.47	-22.47	Pass

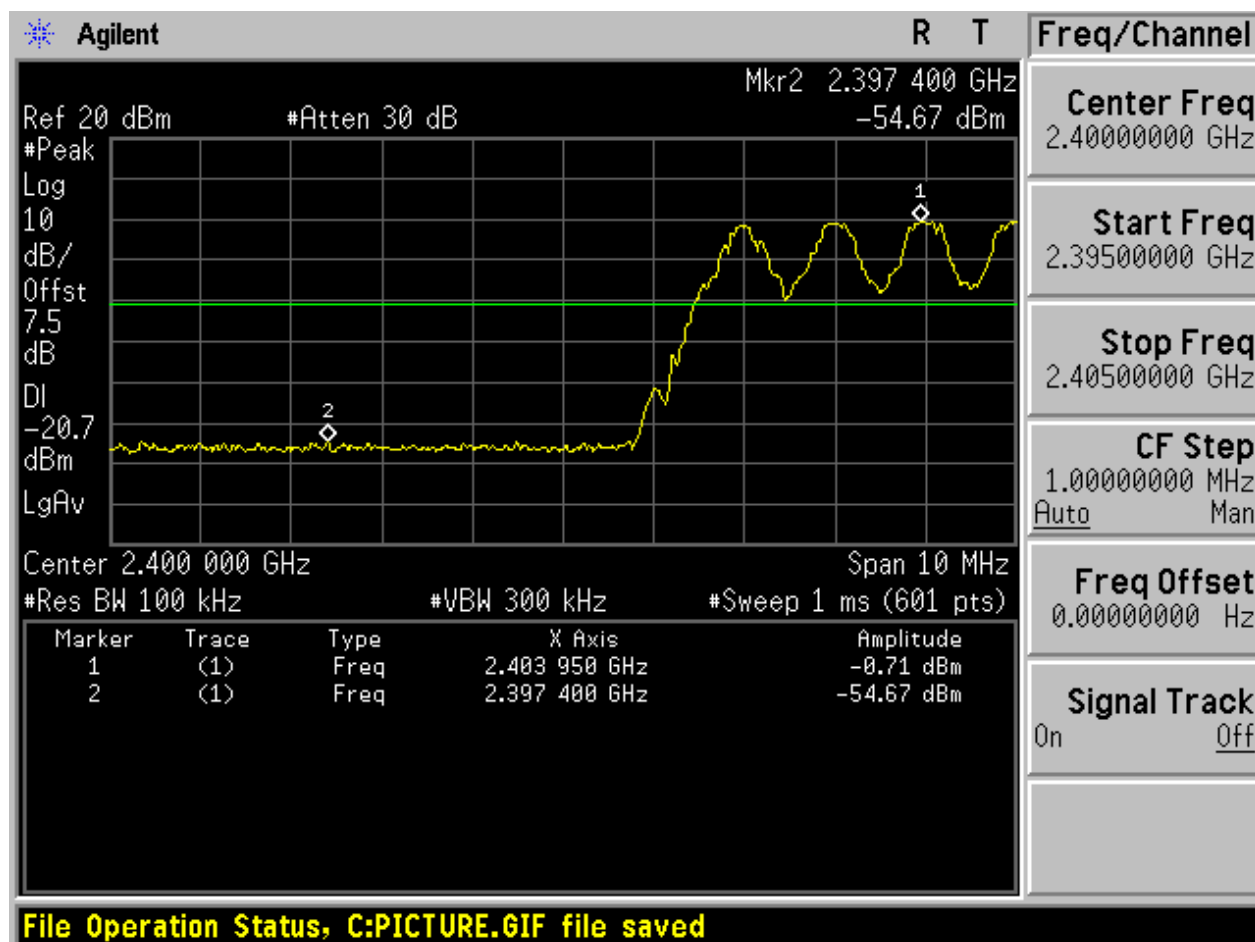
2 Test Plot

2.1 TM1_DH5_Ch0

No hopping

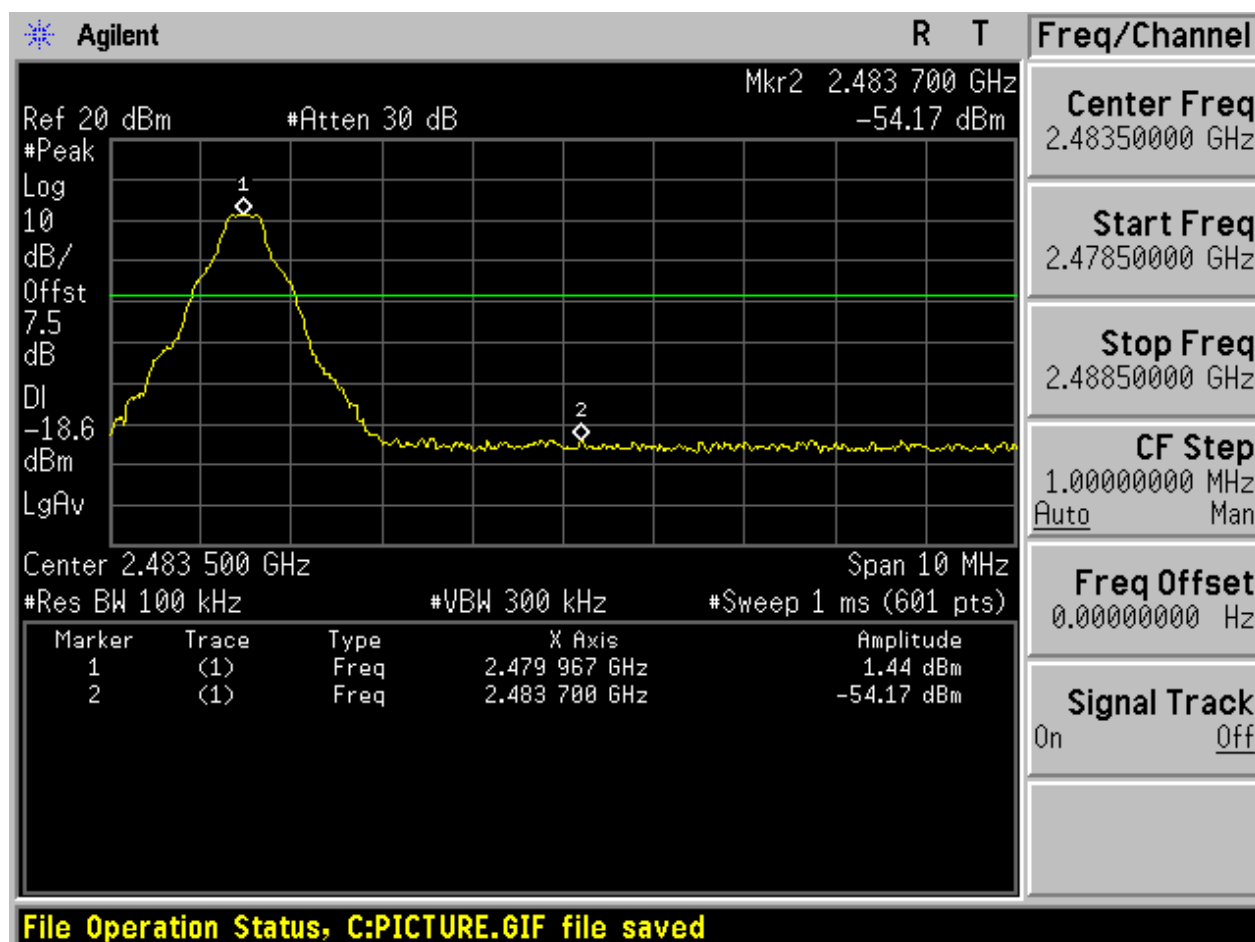


With hopping

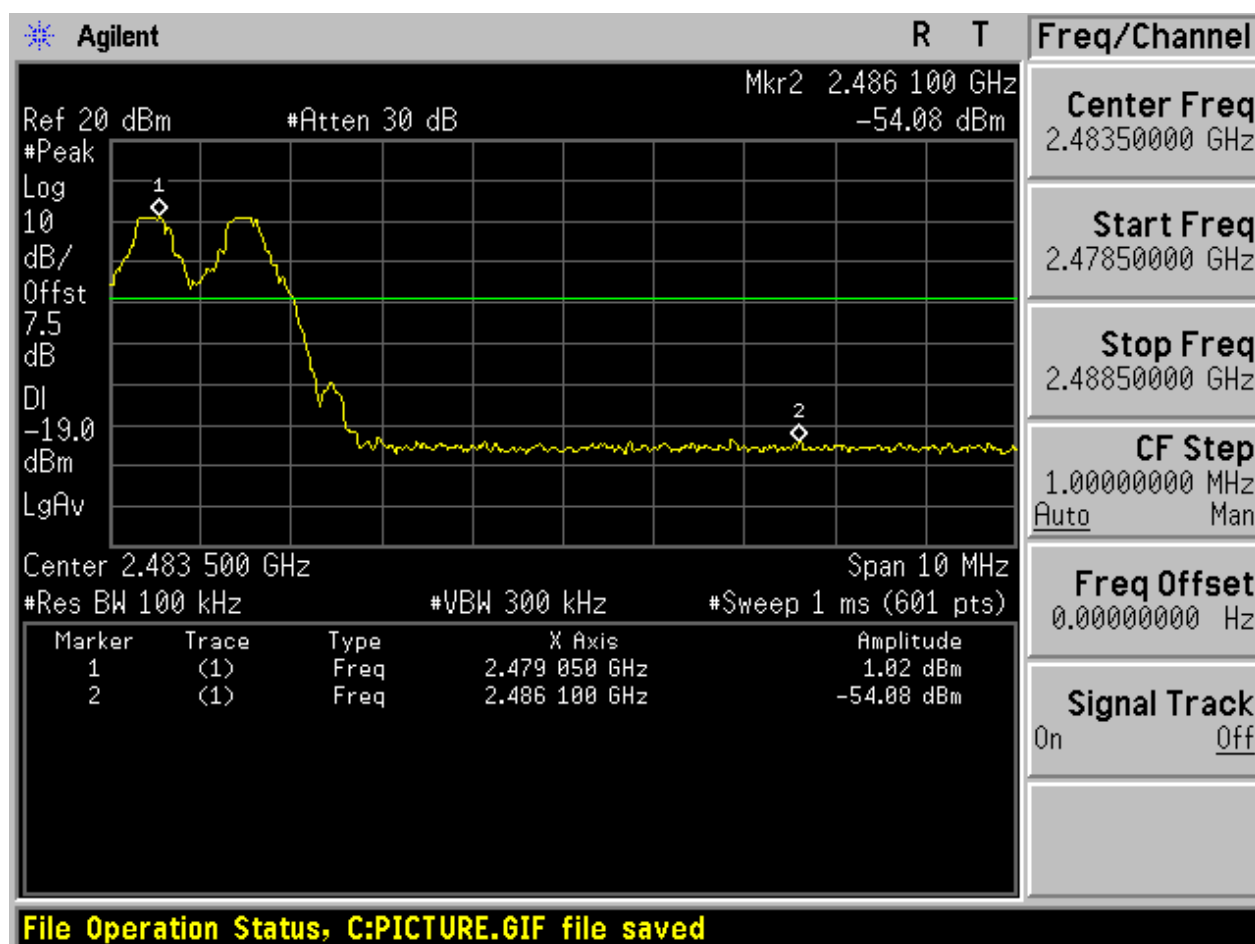


2.2 TM1_DH5_Ch78

No hopping

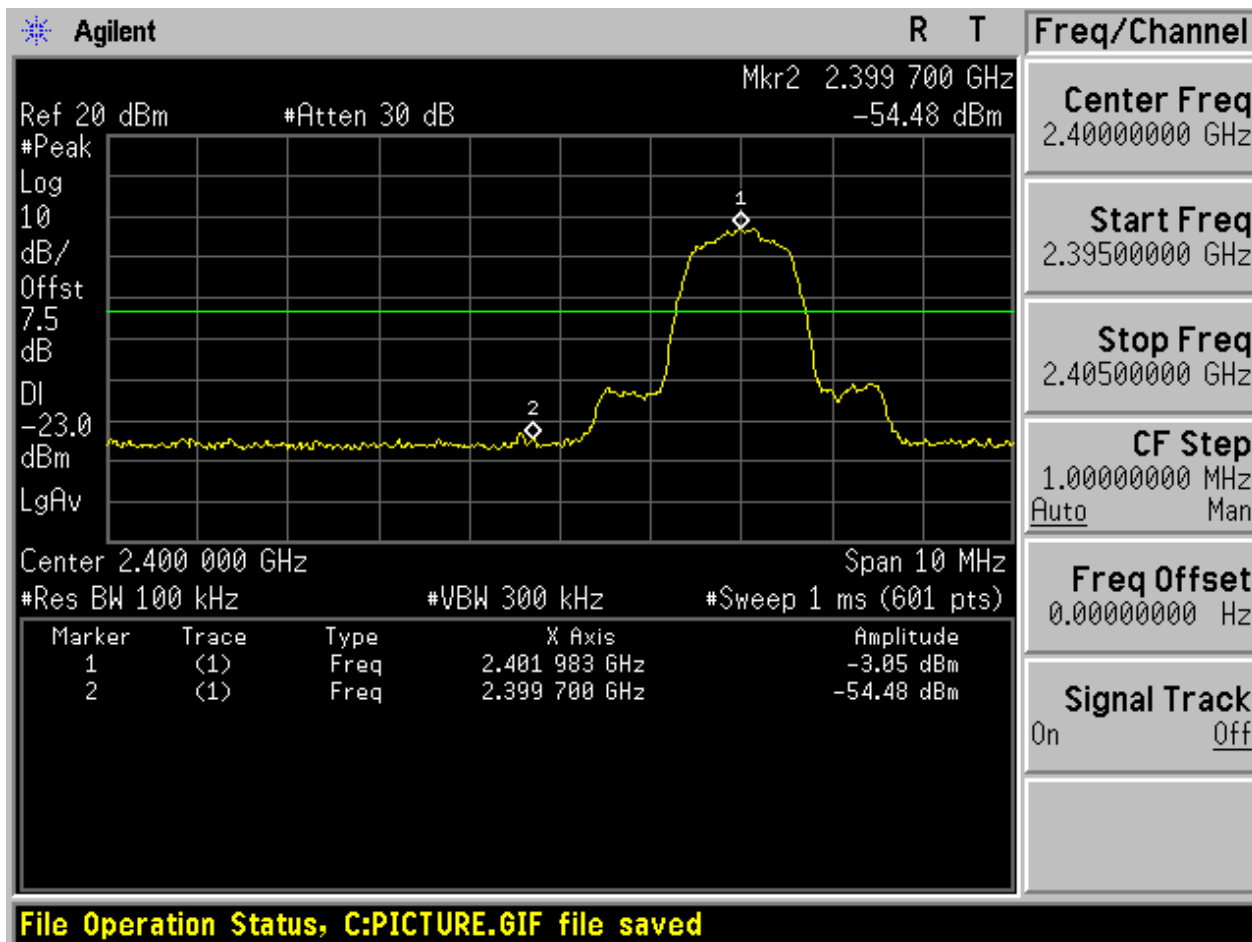


With hopping

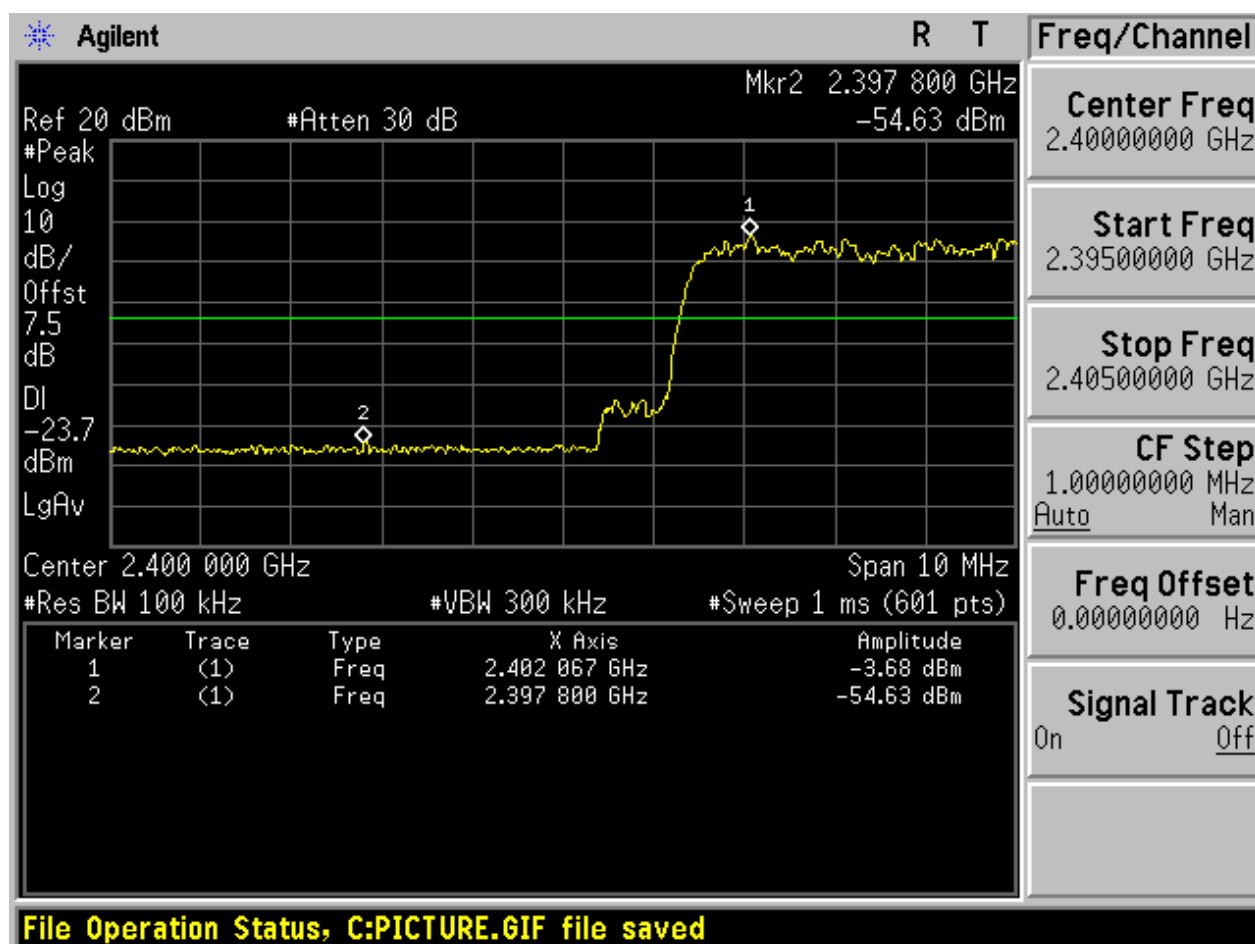


2.3 TM2_2DH5_Ch0

No hopping

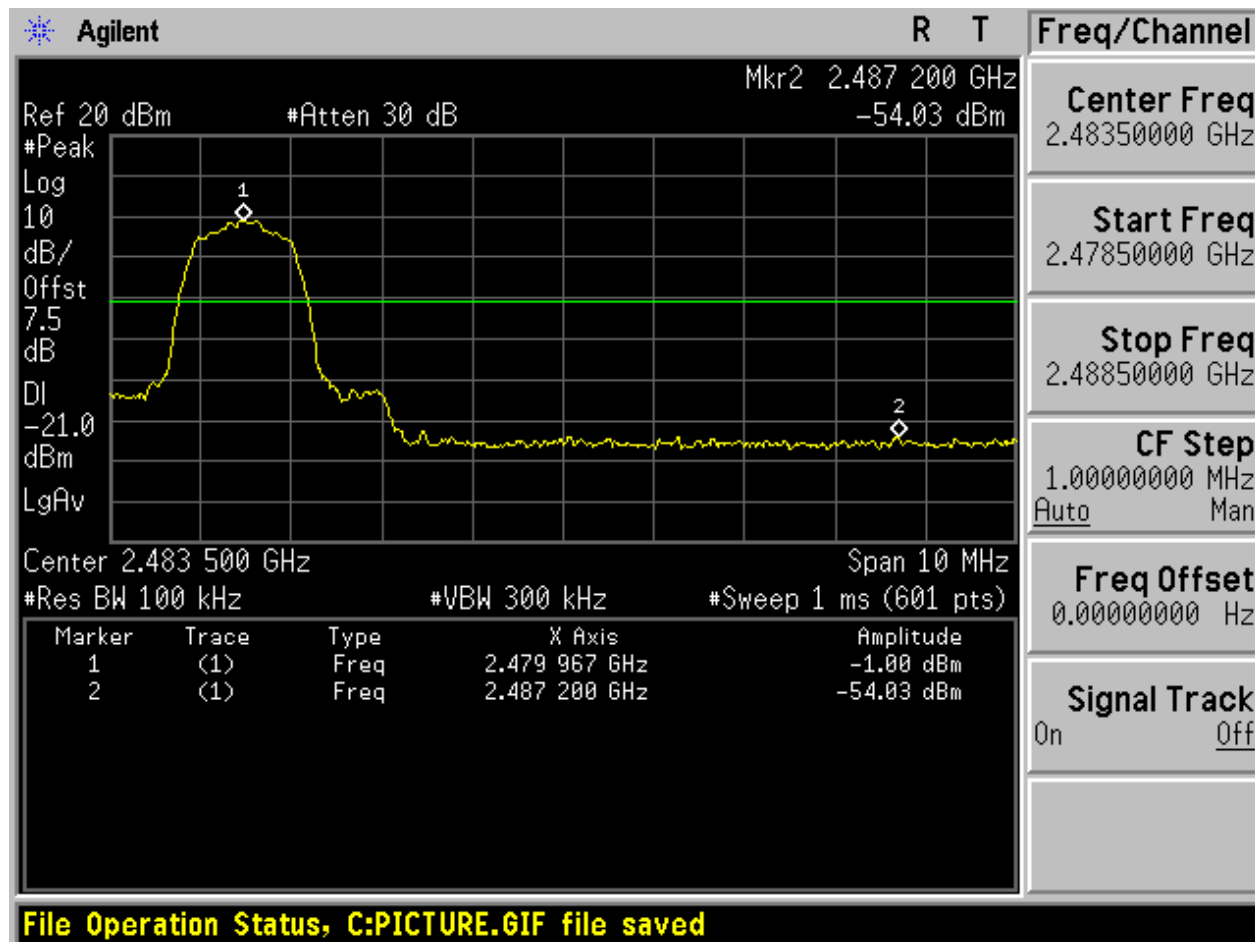


With hopping

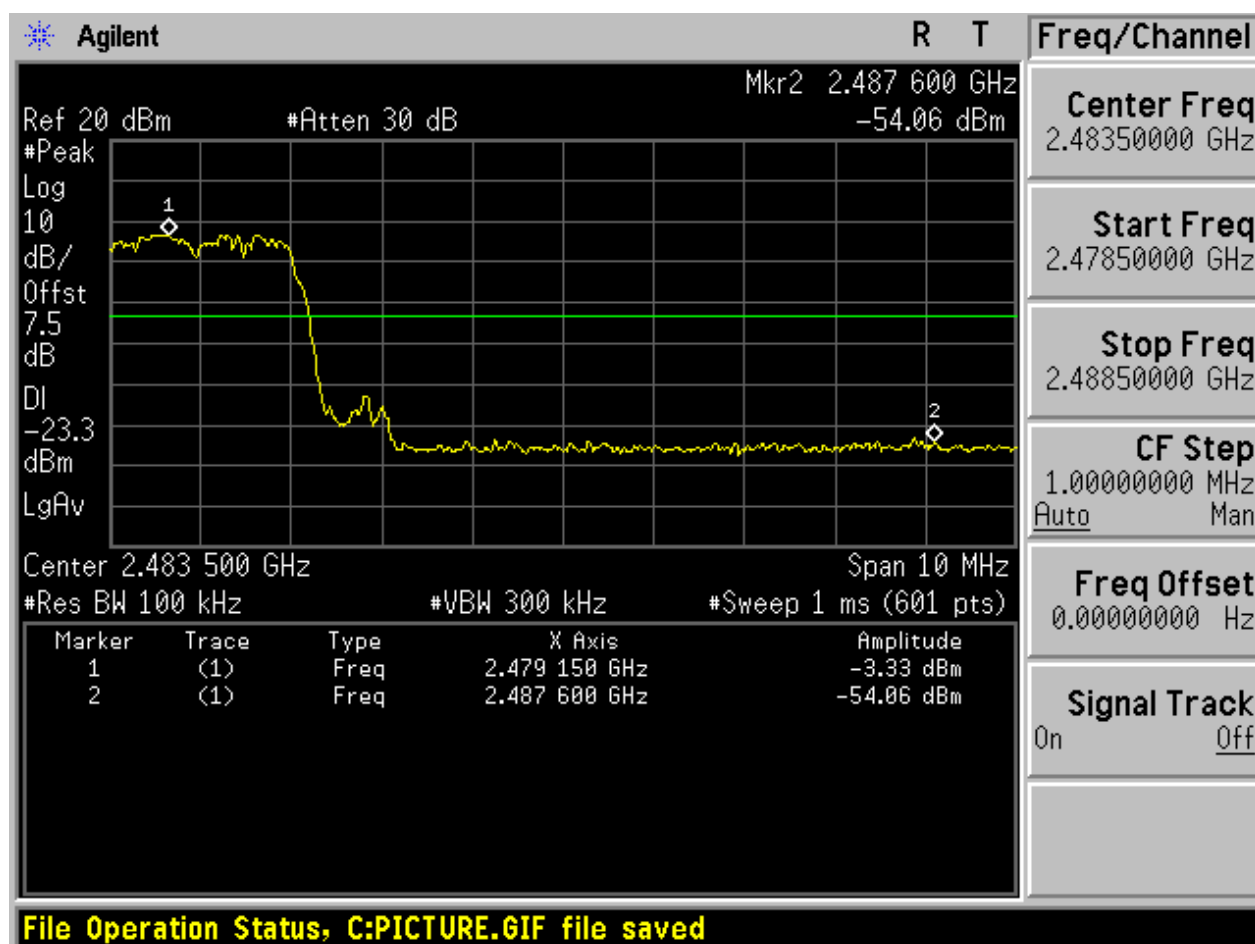


2.4 TM2_2DH5_Ch78

No hopping



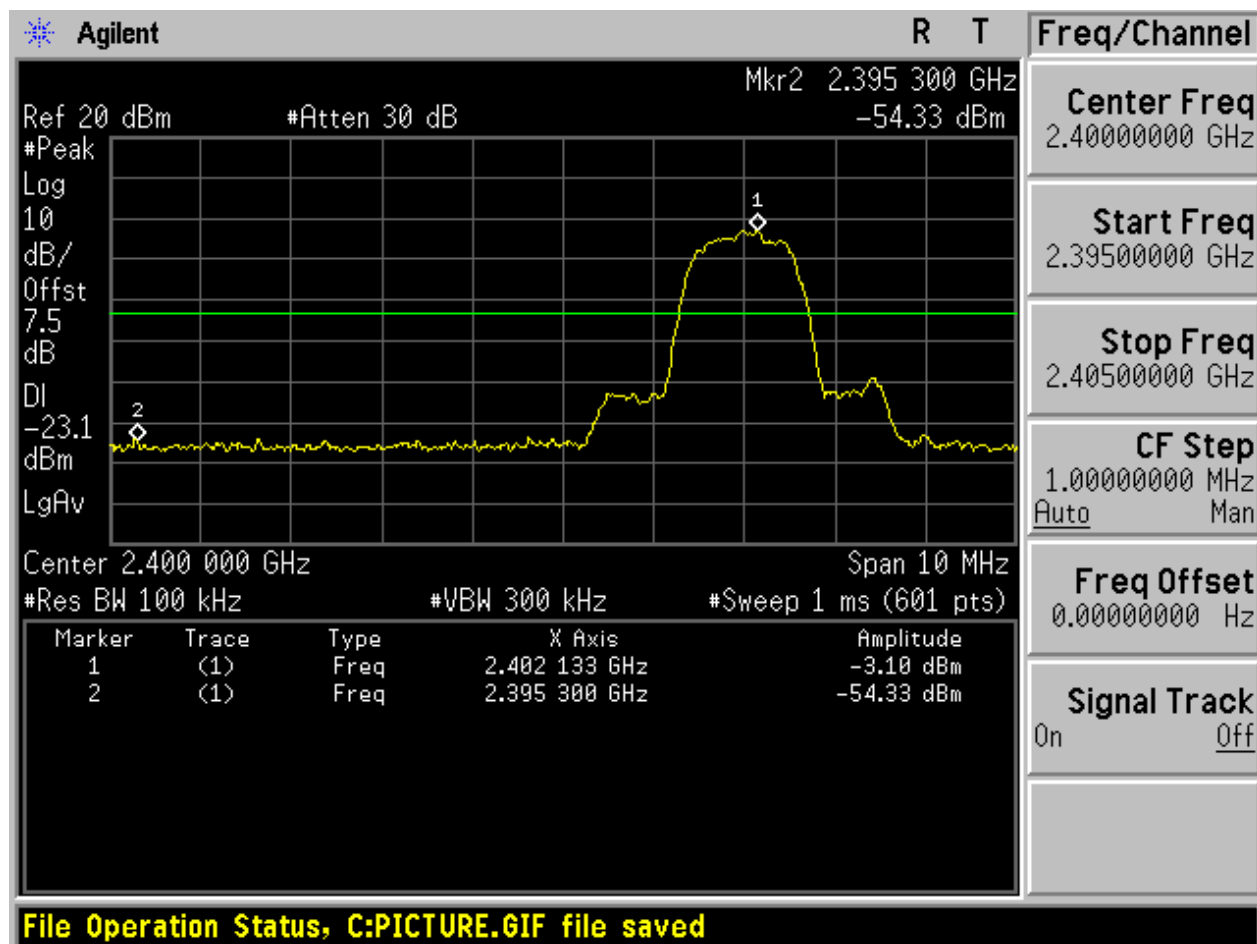
With hopping



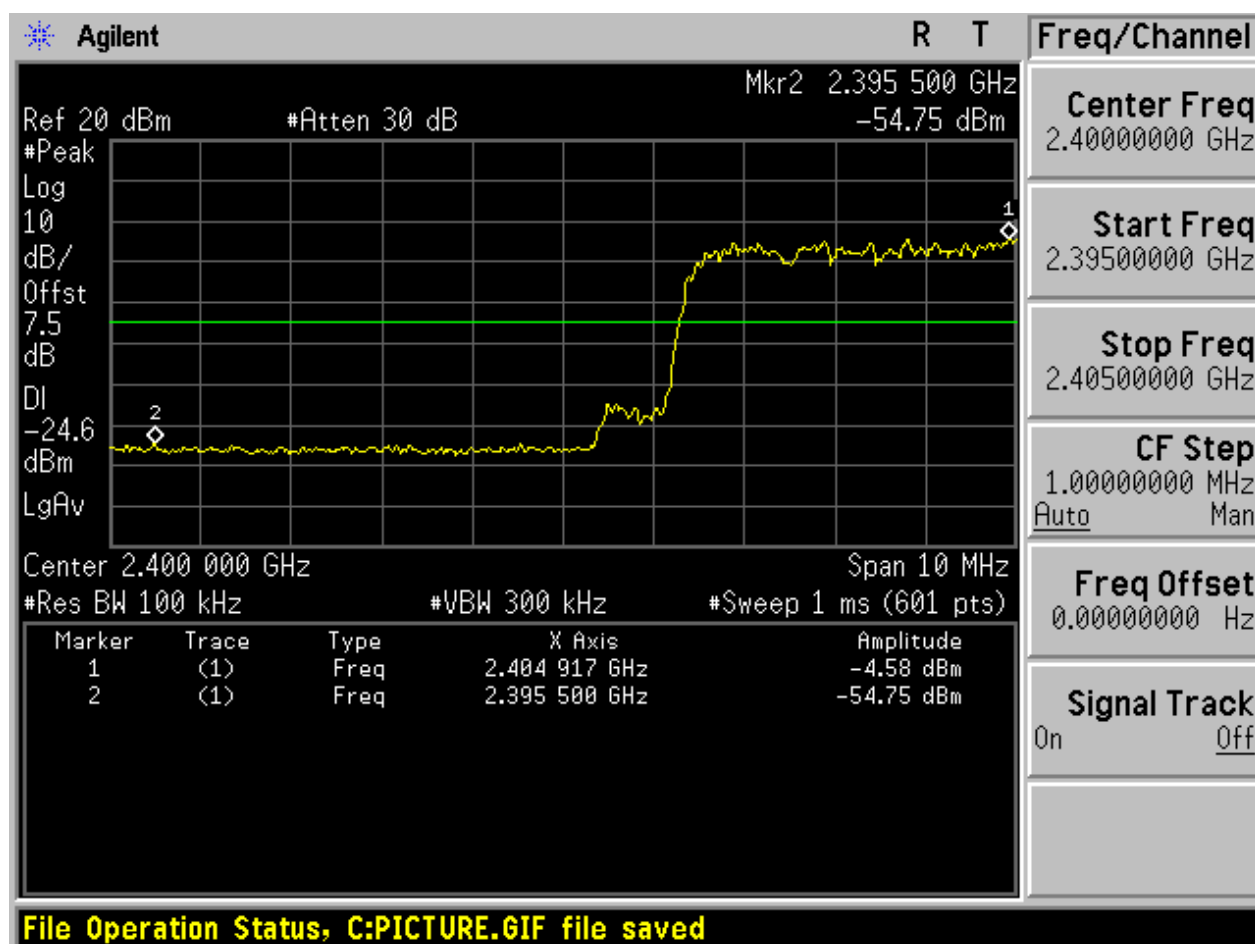


2.5 TM3_3DH5_Ch0

No hopping

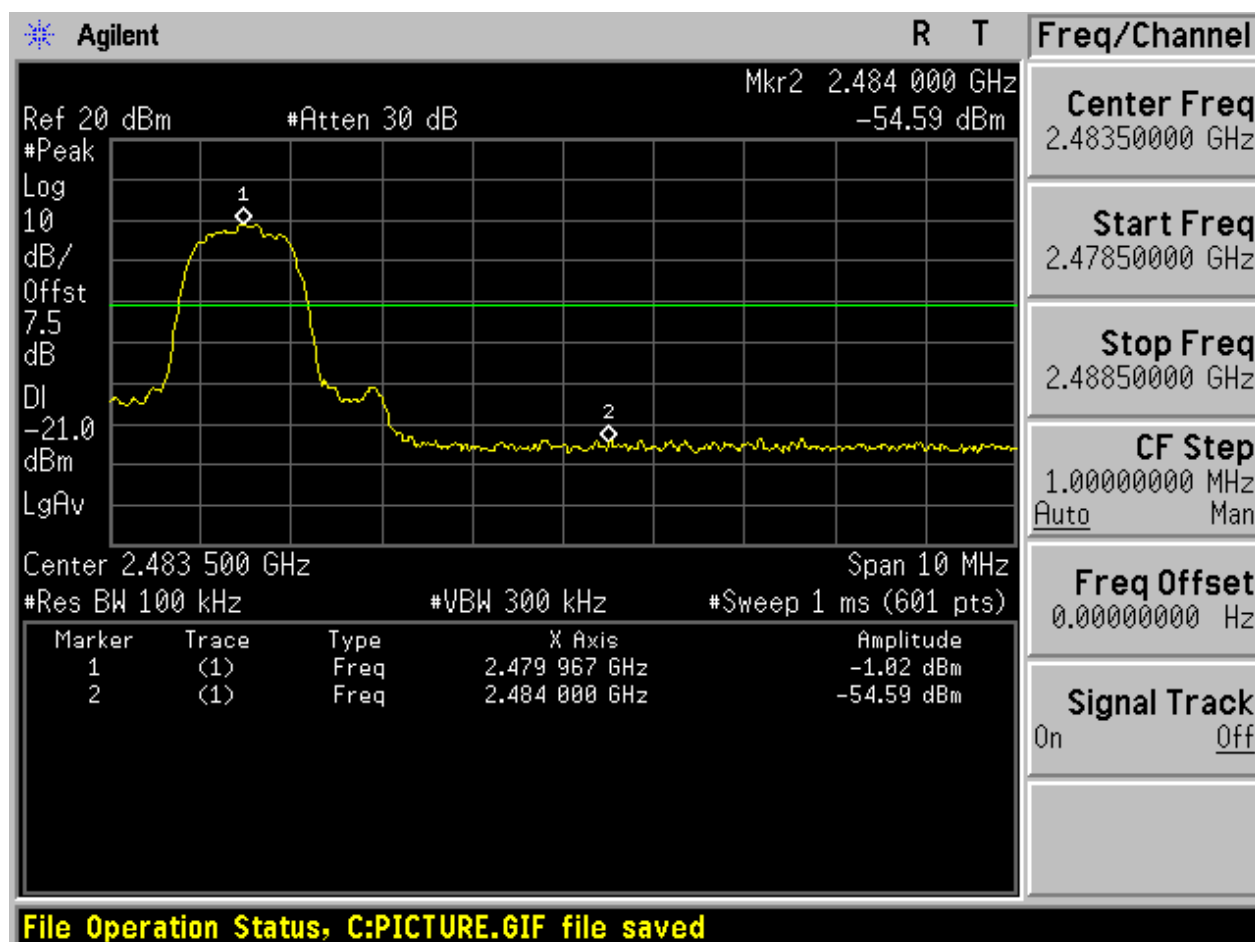


With hopping

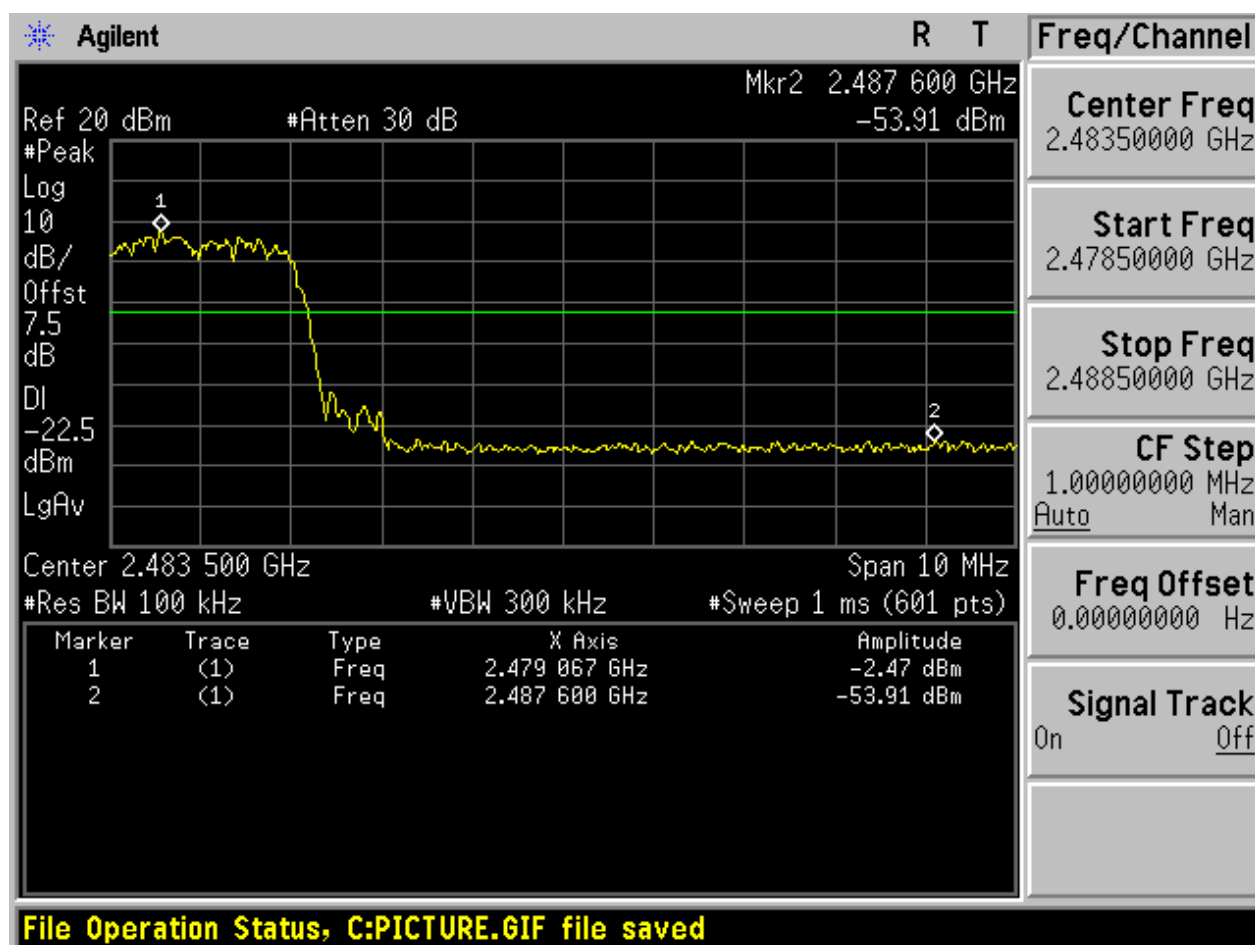


2.6 TM3_3DH5_Ch78

No hopping



With hopping



Appendix H: 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”.

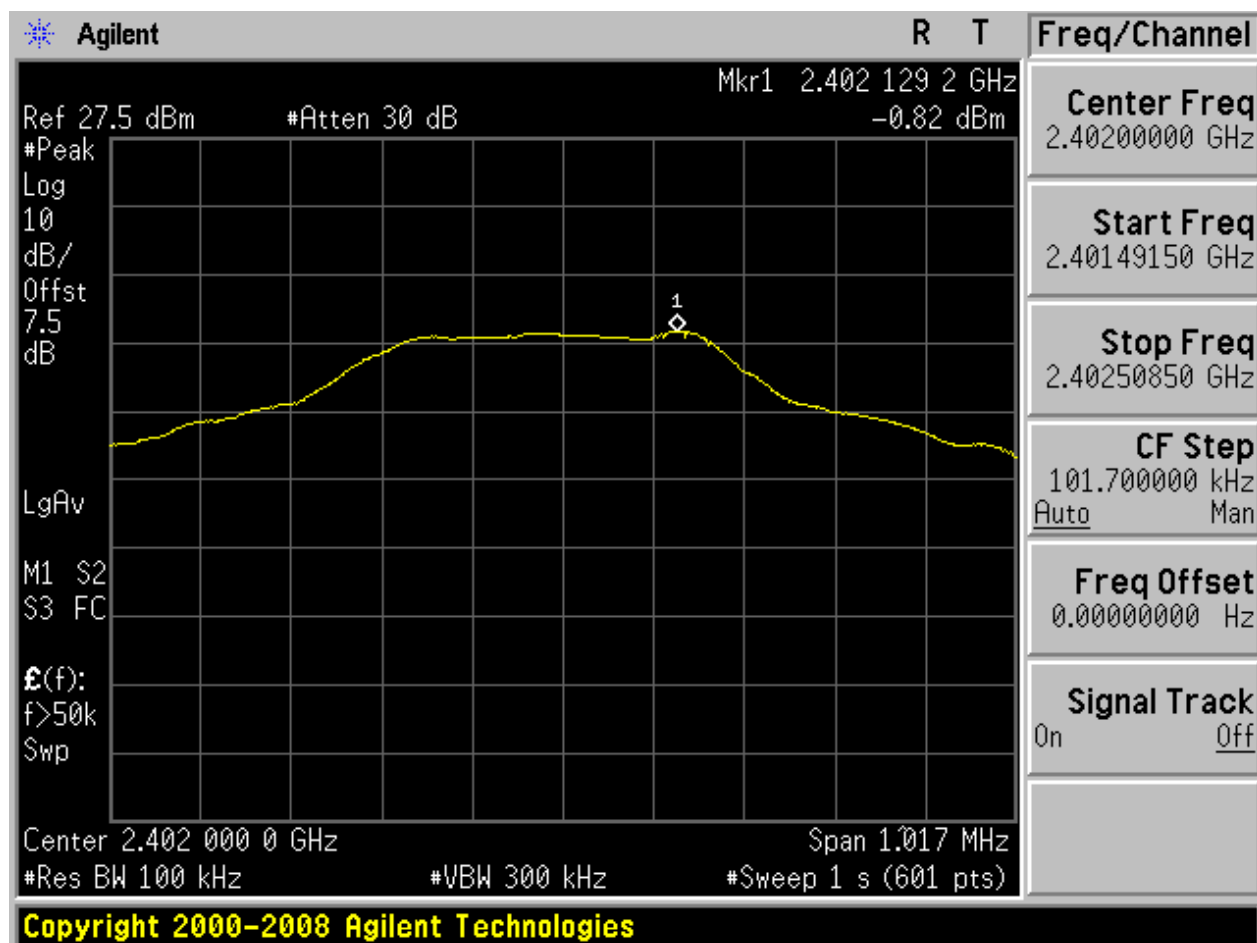
EUT Conf.	Pref [dBm/100 kHz]	Puw [dBm/100 kHz]	Verdict
TM1_DH5_Ch0	-0.82	< Limit	Pass
TM1_DH5_Ch39	2.24	< Limit	Pass
TM1_DH5_Ch78	1.34	< Limit	Pass
TM2_2DH5_Ch0	-3.17	< Limit	Pass
TM2_2DH5_Ch39	-0.16	< Limit	Pass
TM2_2DH5_Ch78	-1.16	< Limit	Pass
TM3_3DH5_Ch0	-3.13	< Limit	Pass
TM3_3DH5_Ch39	-0.14	< Limit	Pass
TM3_3DH5_Ch78	-1.15	< Limit	Pass



2 Test Plot

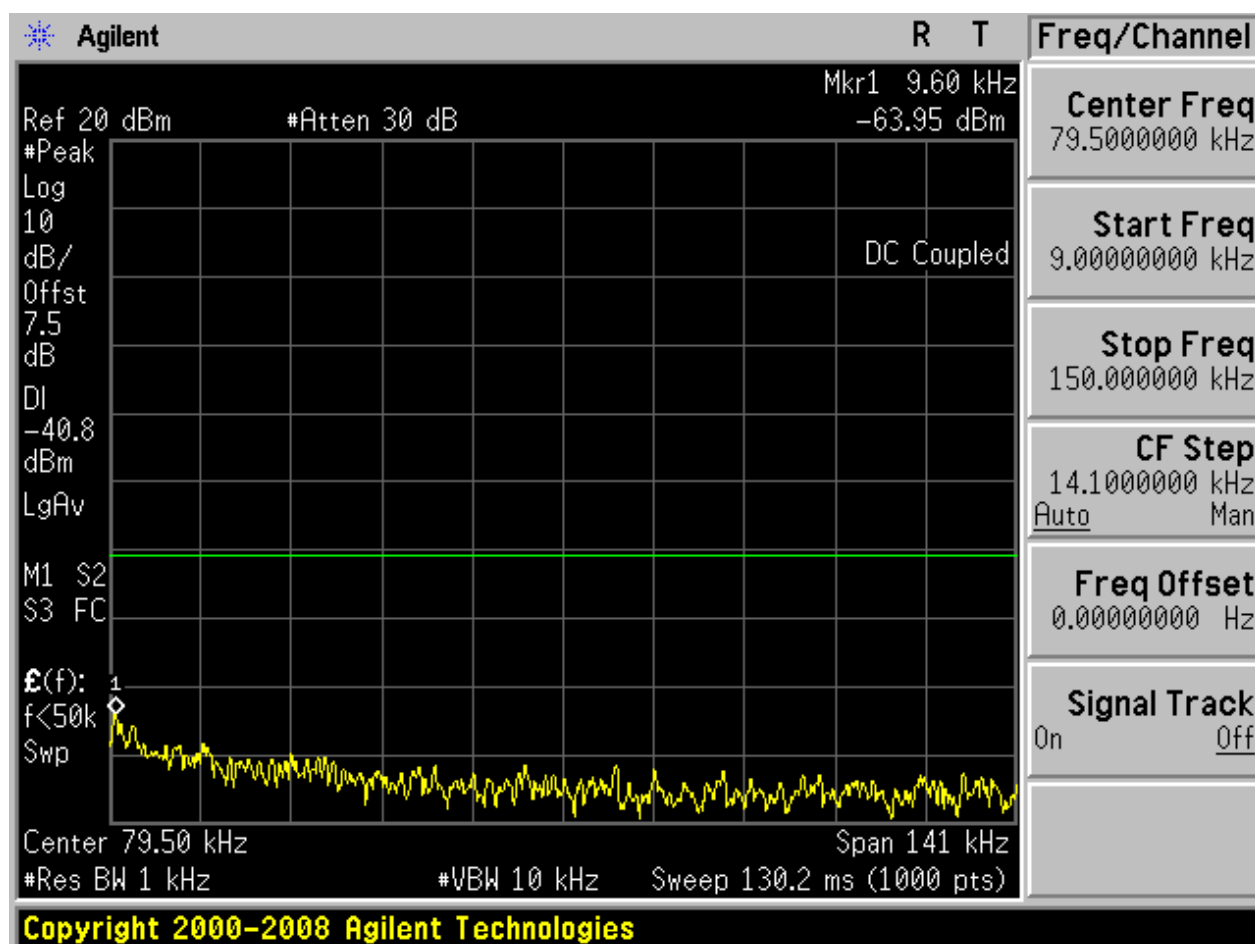
2.1 TM1_DH5_Ch0

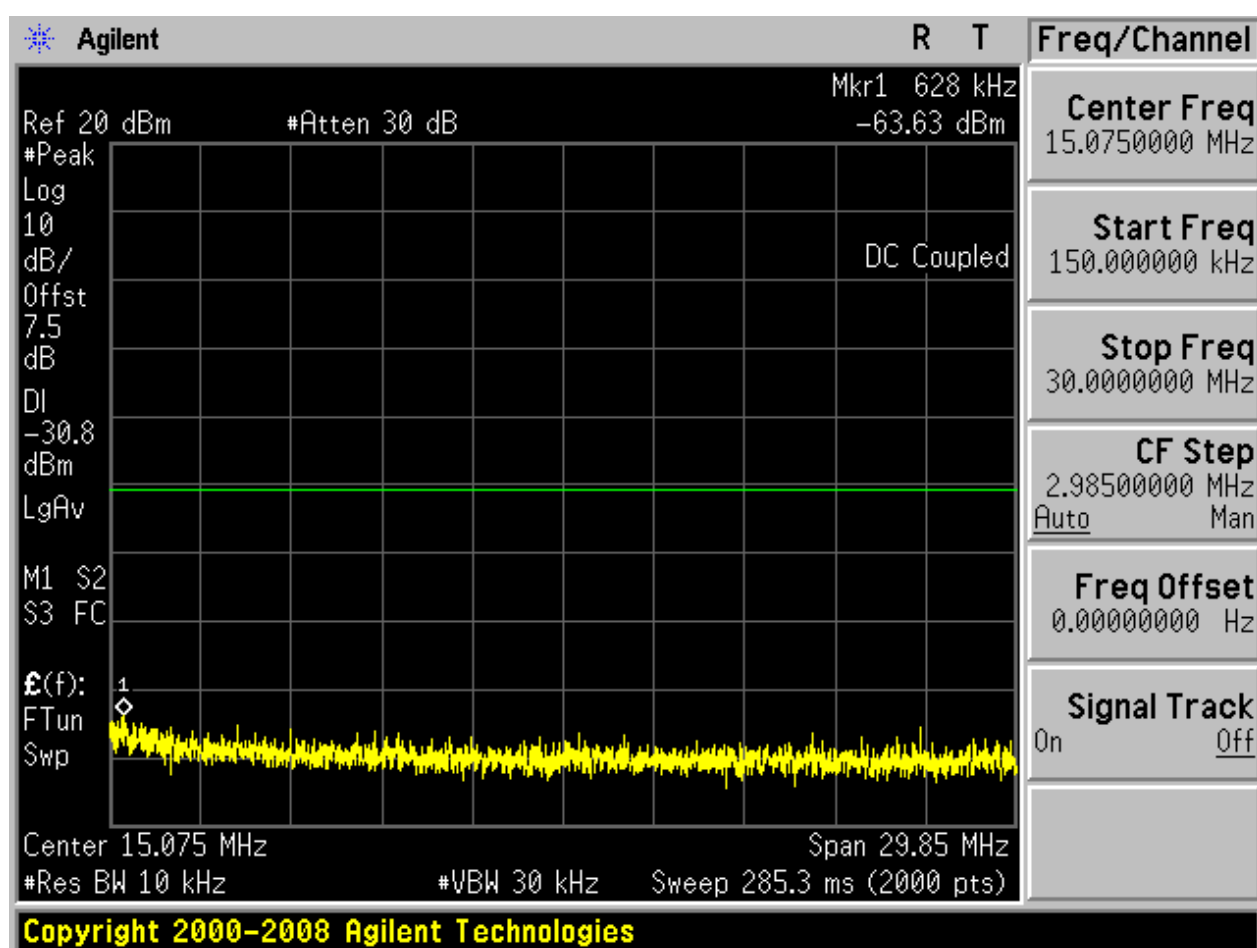
2.1.1 Pref

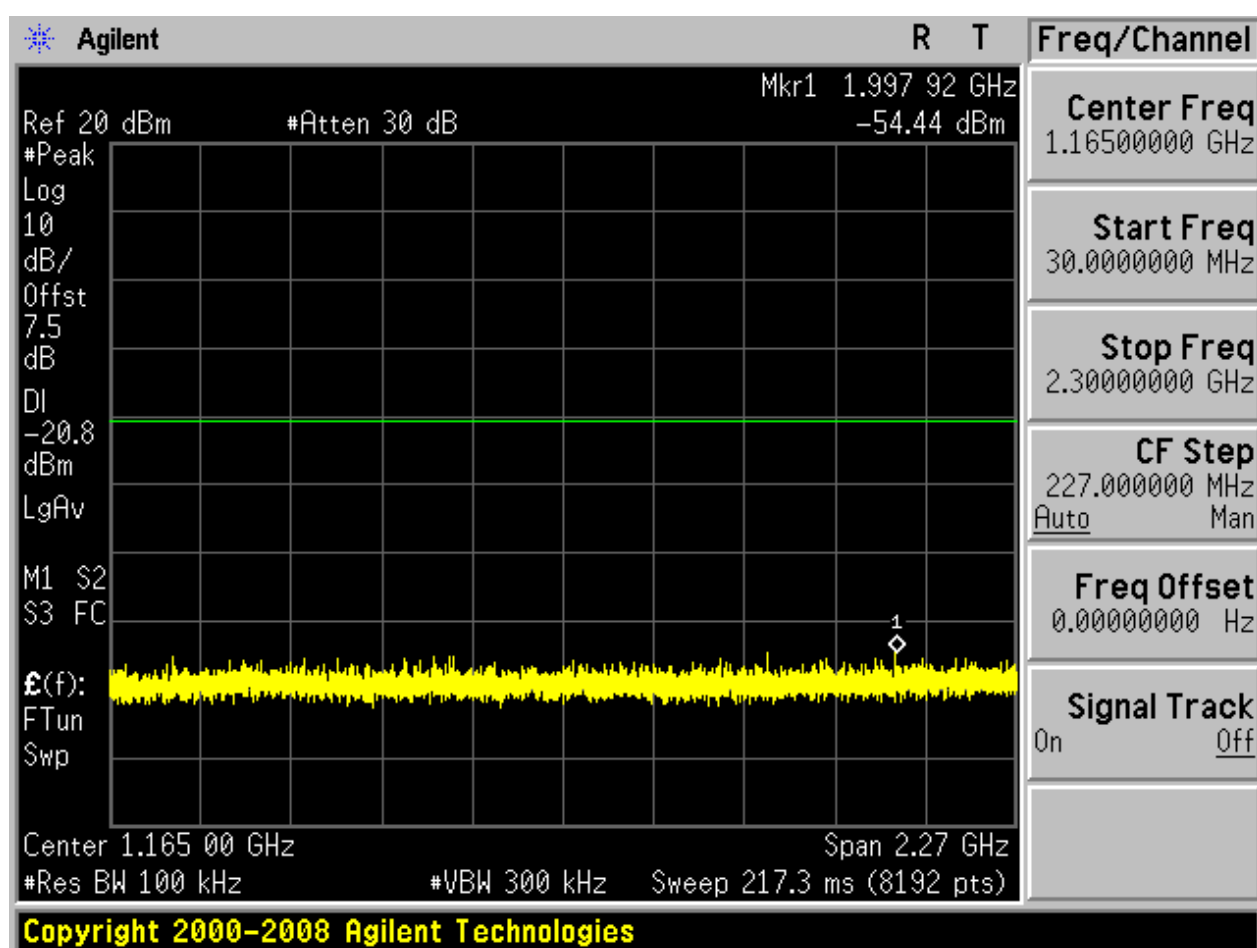


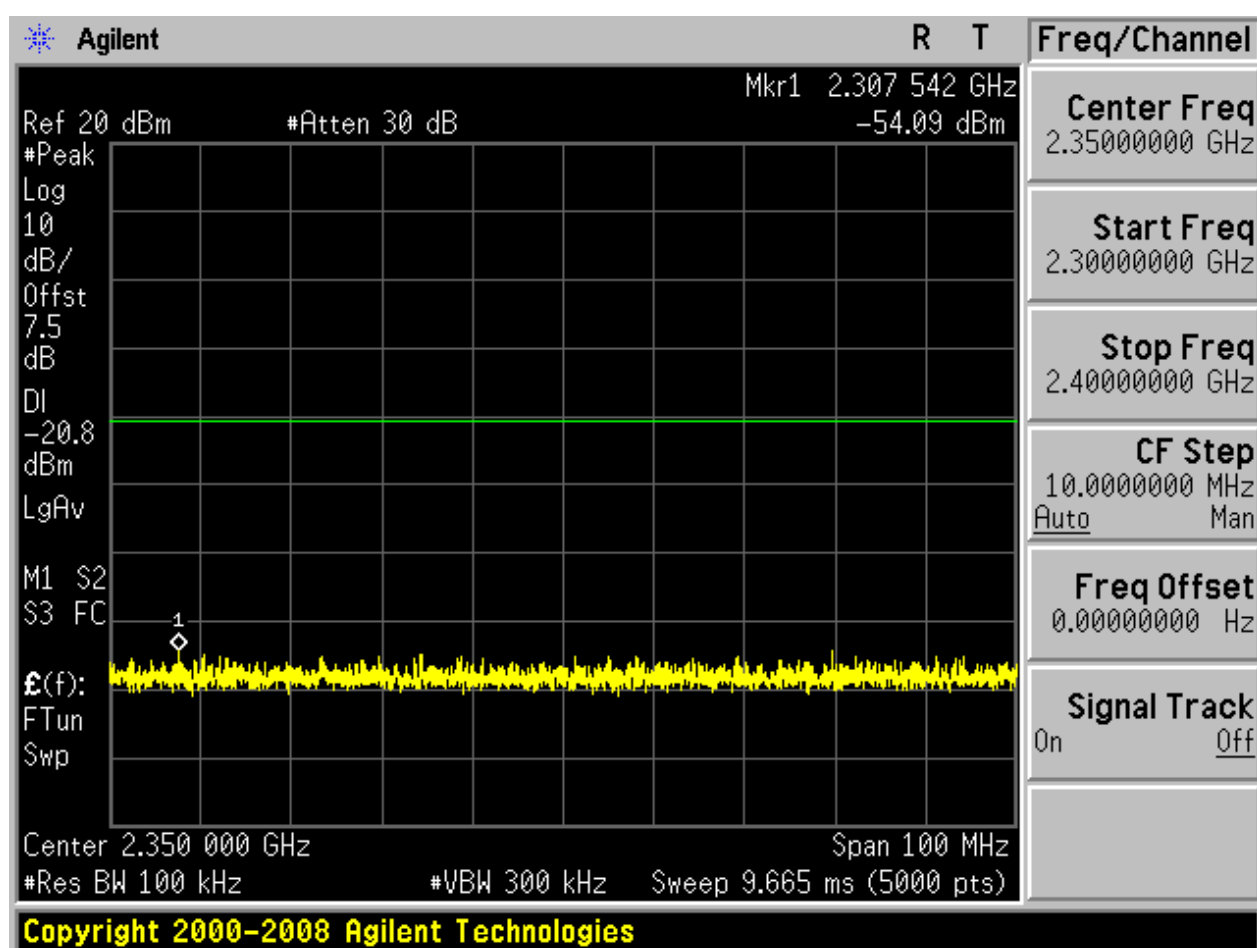


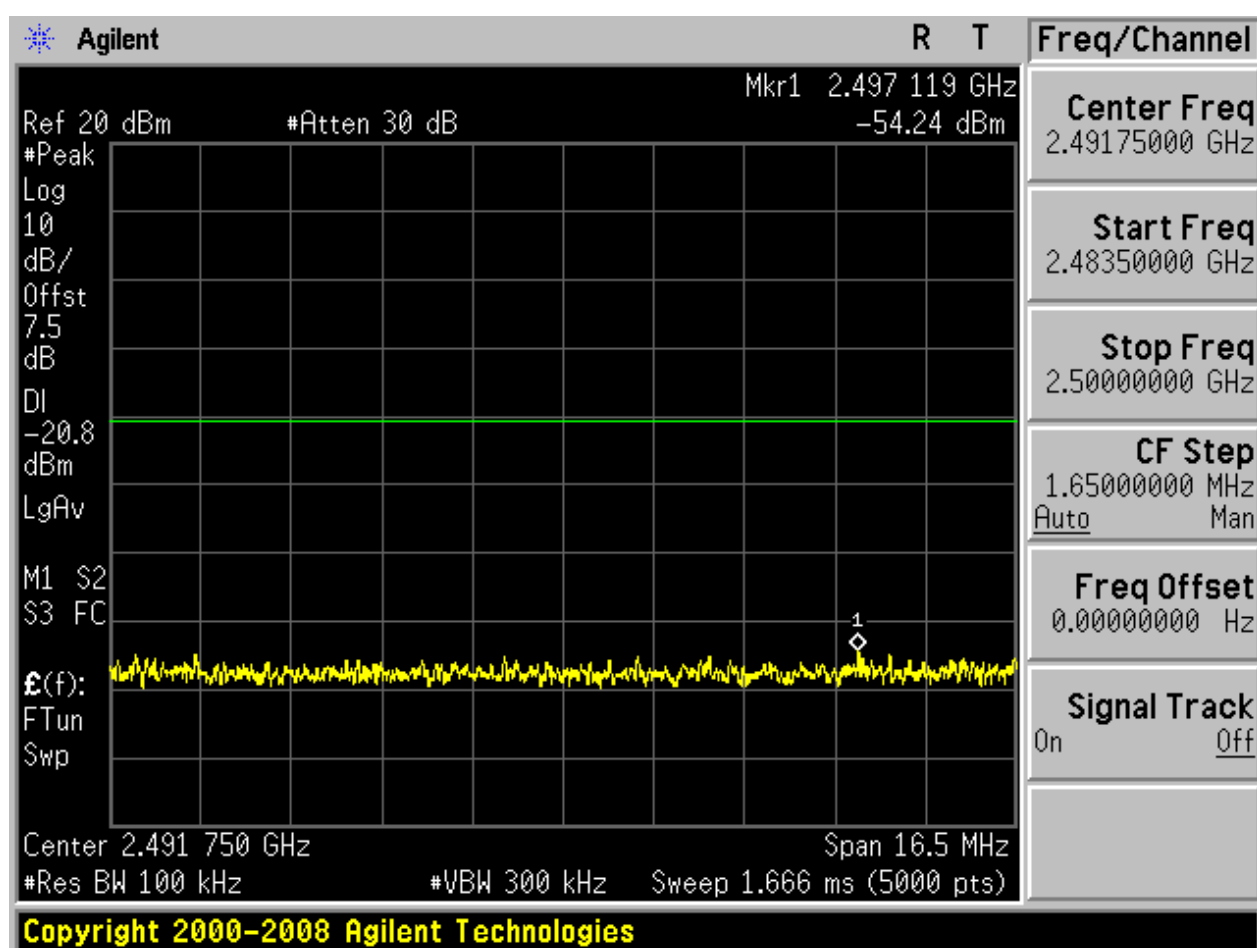
2.1.2 Puw

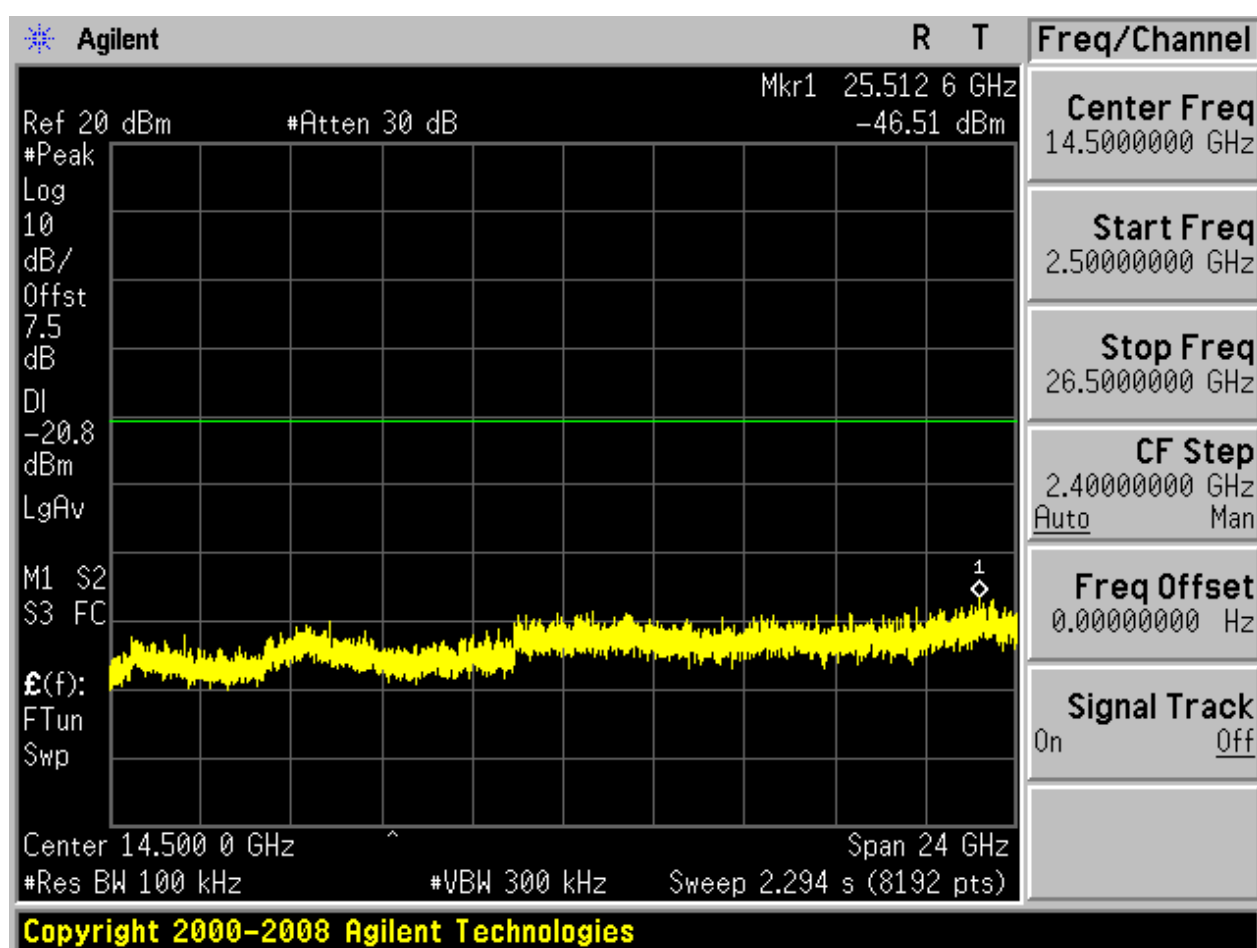






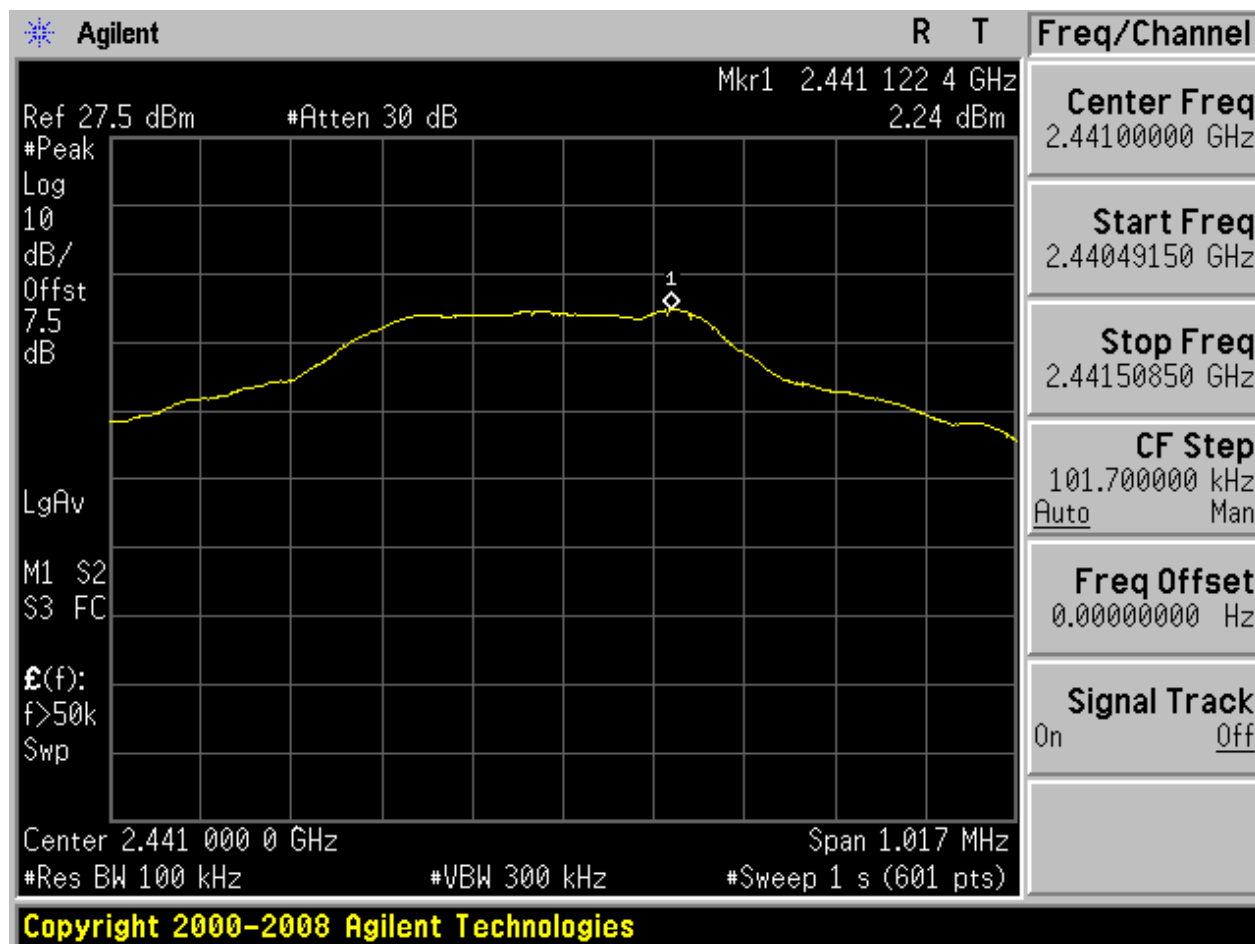




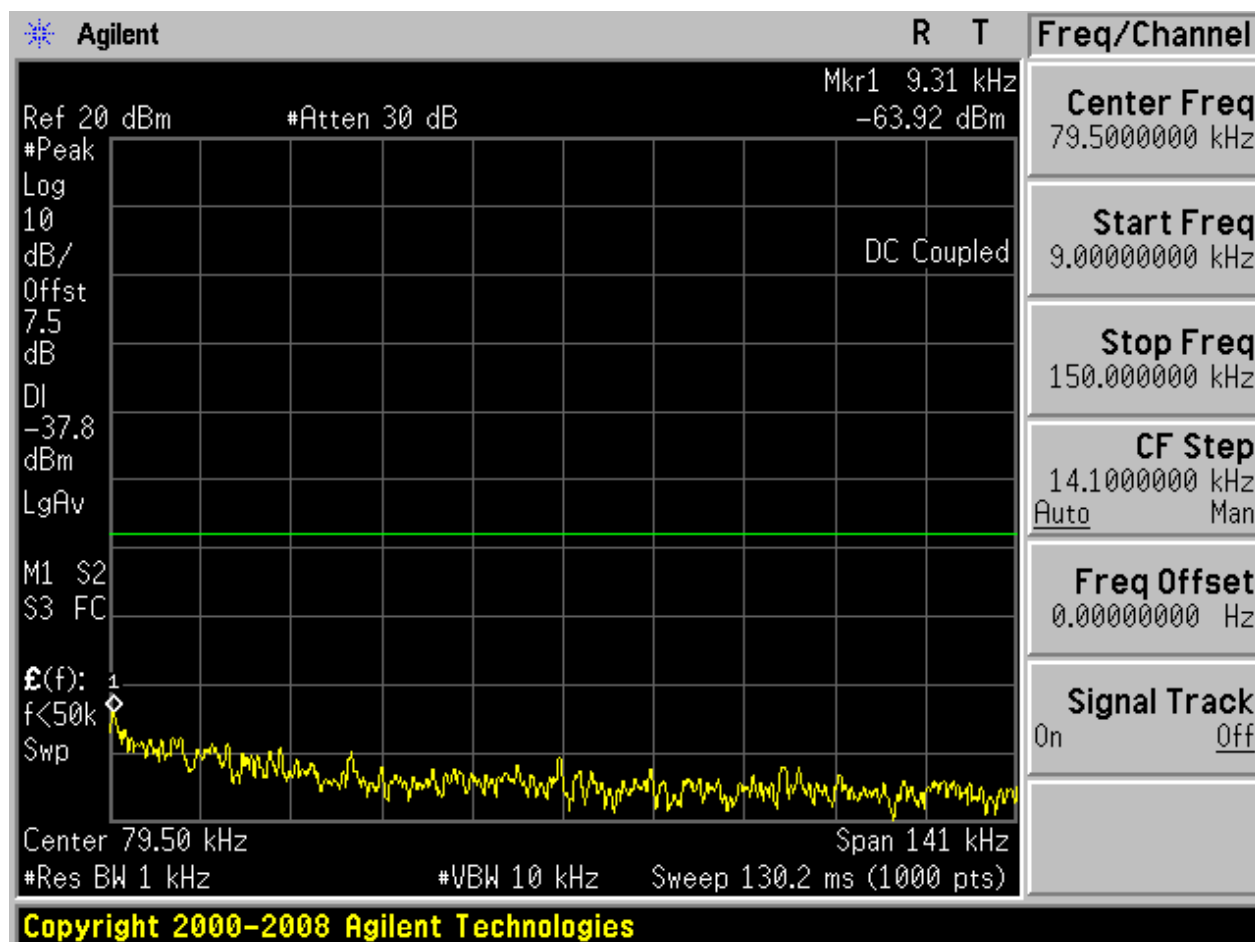


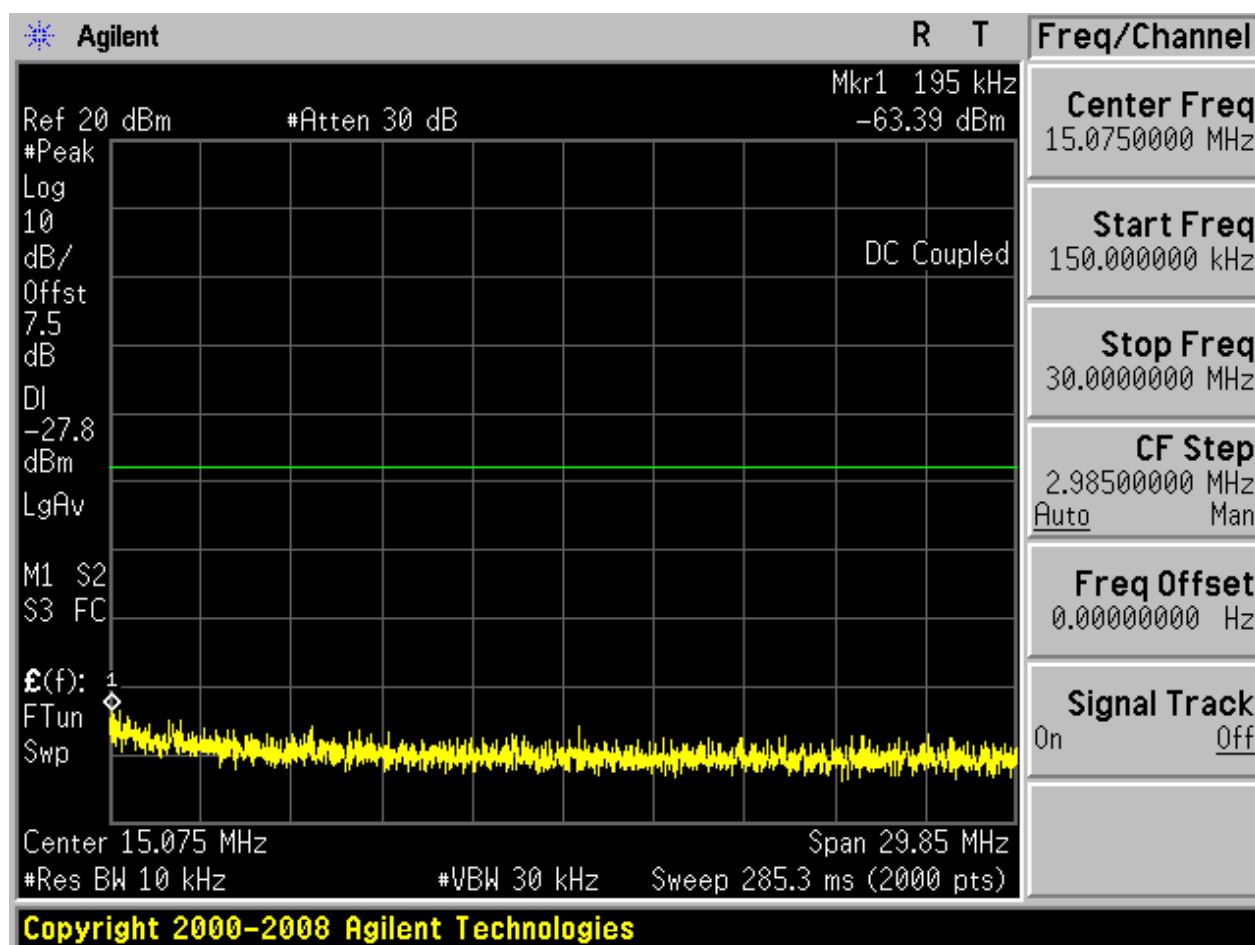
2.2 TM1_DH5_Ch39

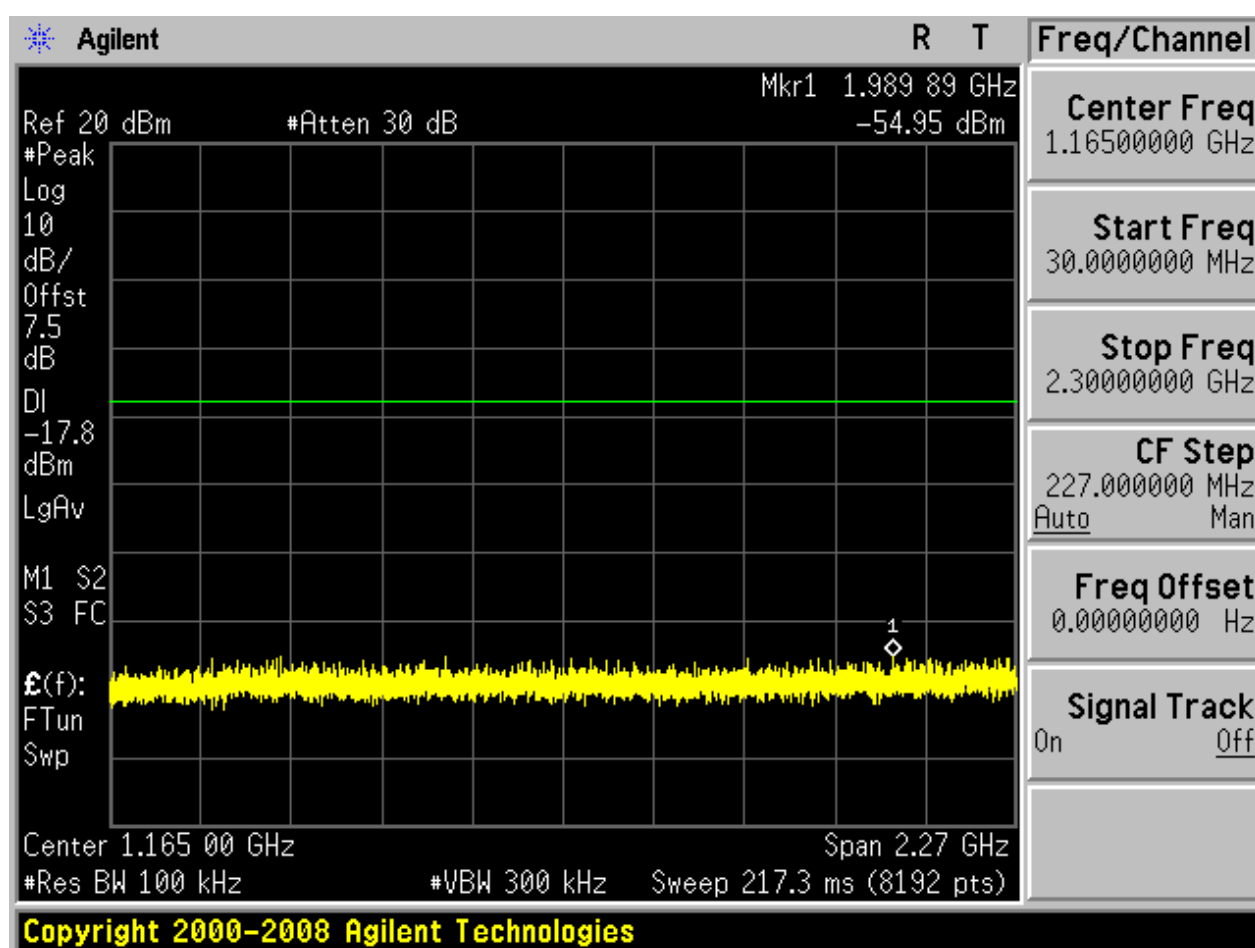
2.2.1 Pref

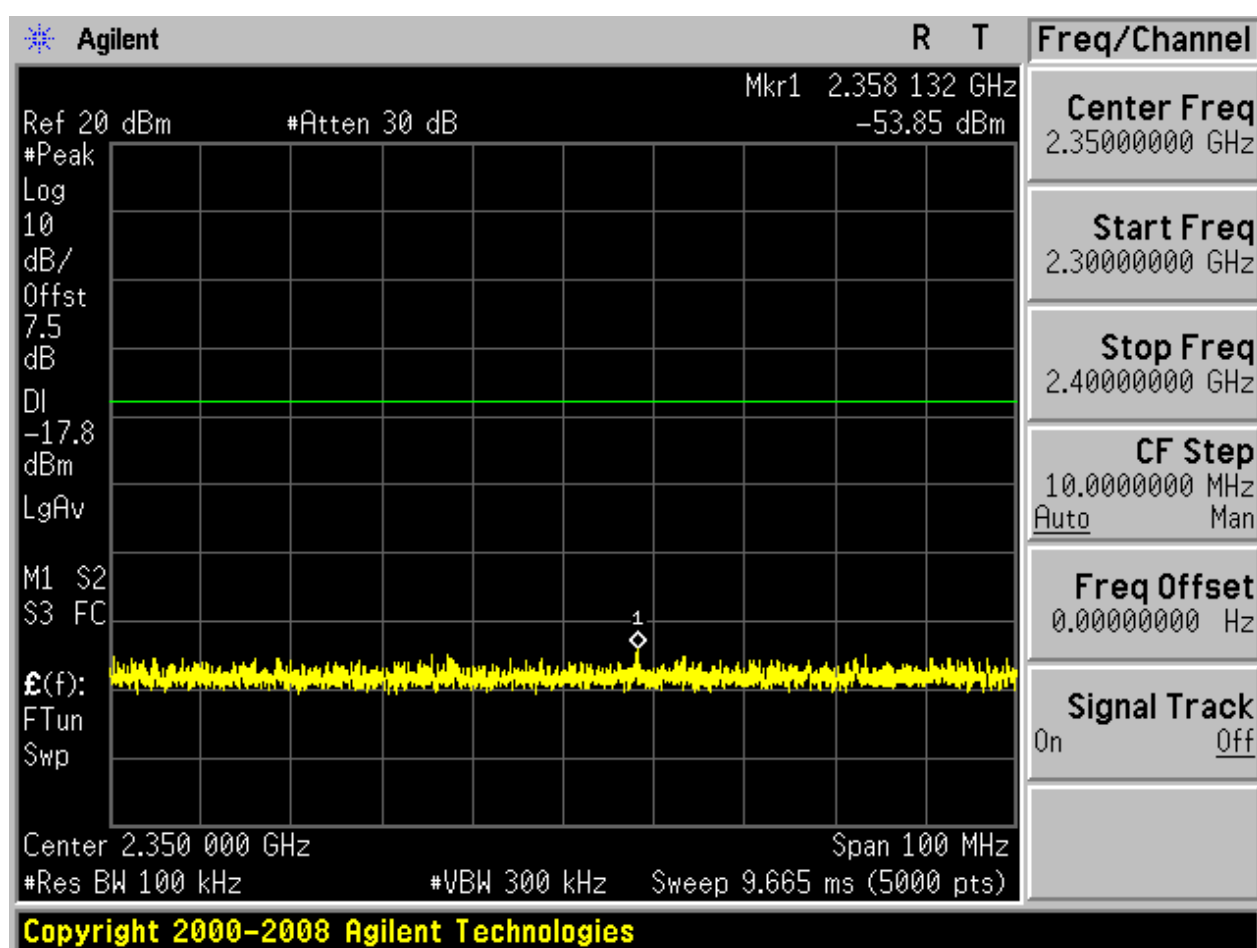


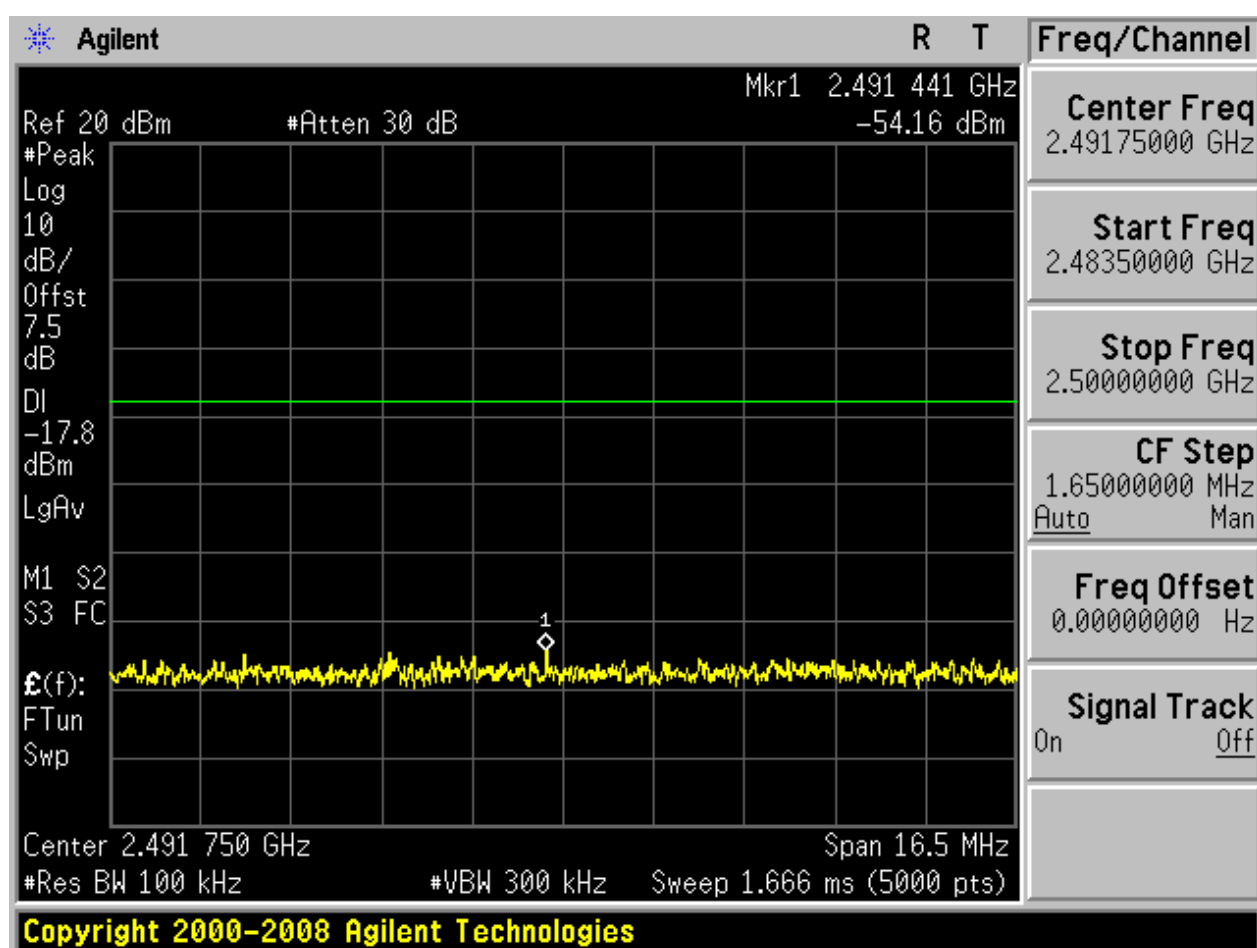
2.2.2 Puw

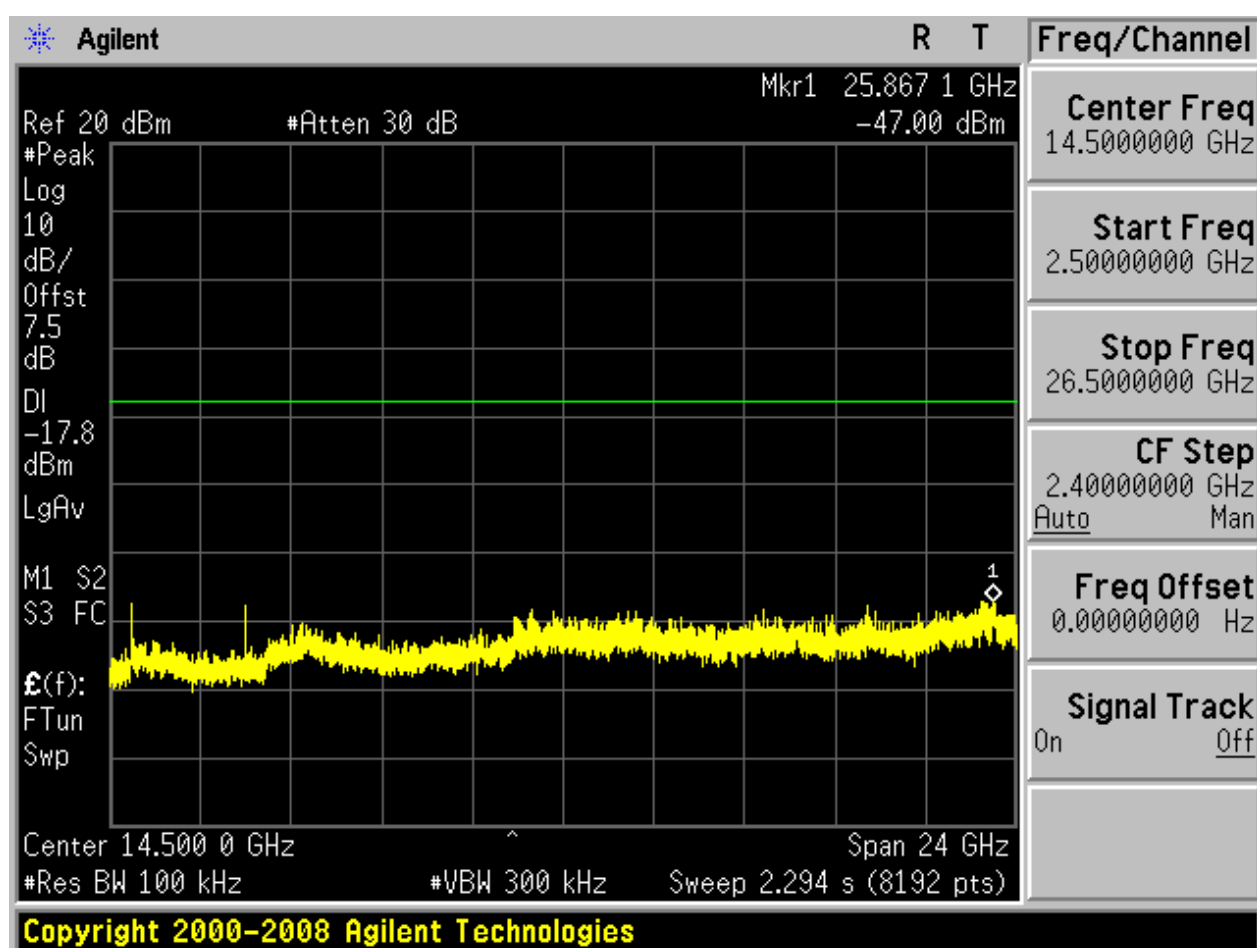








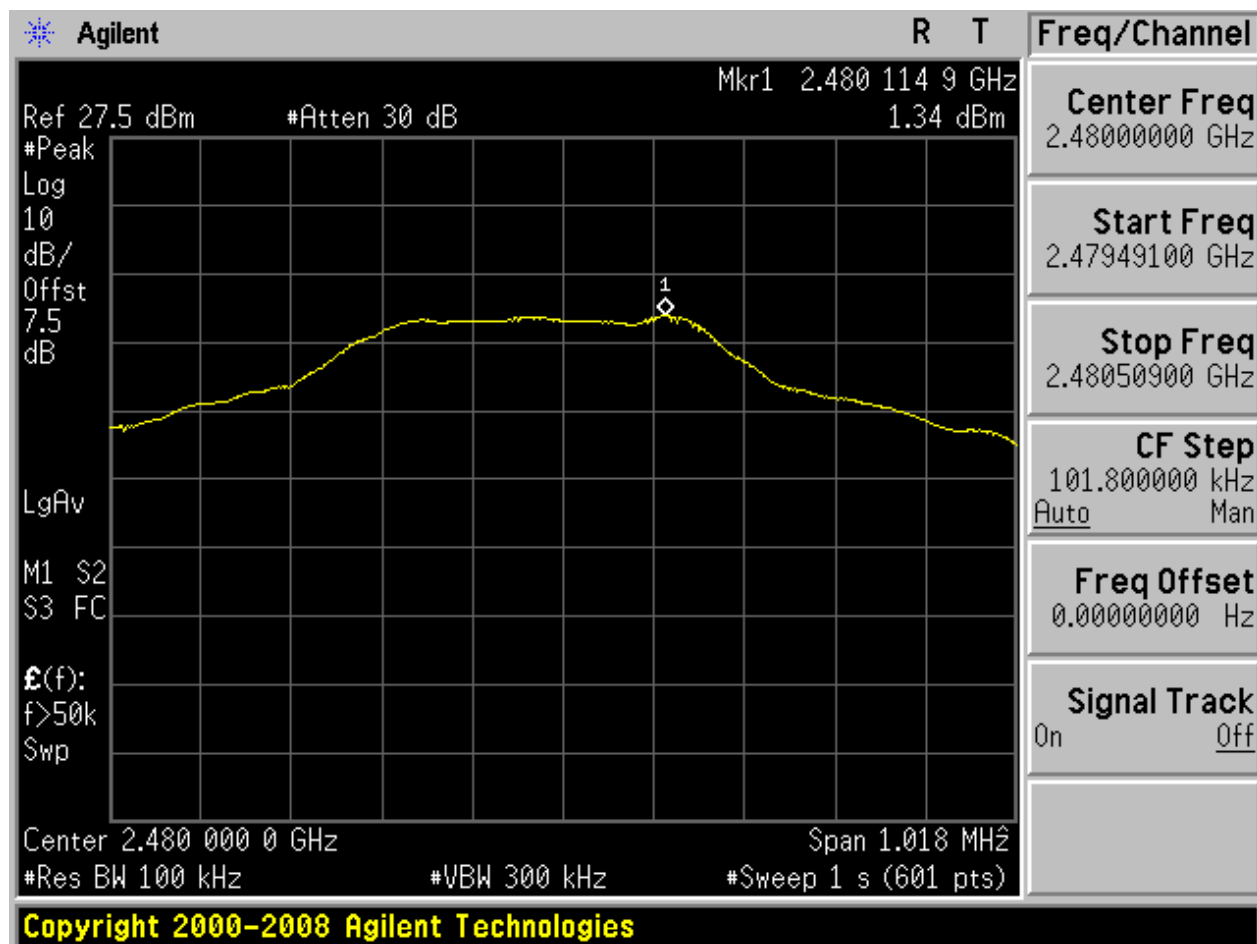






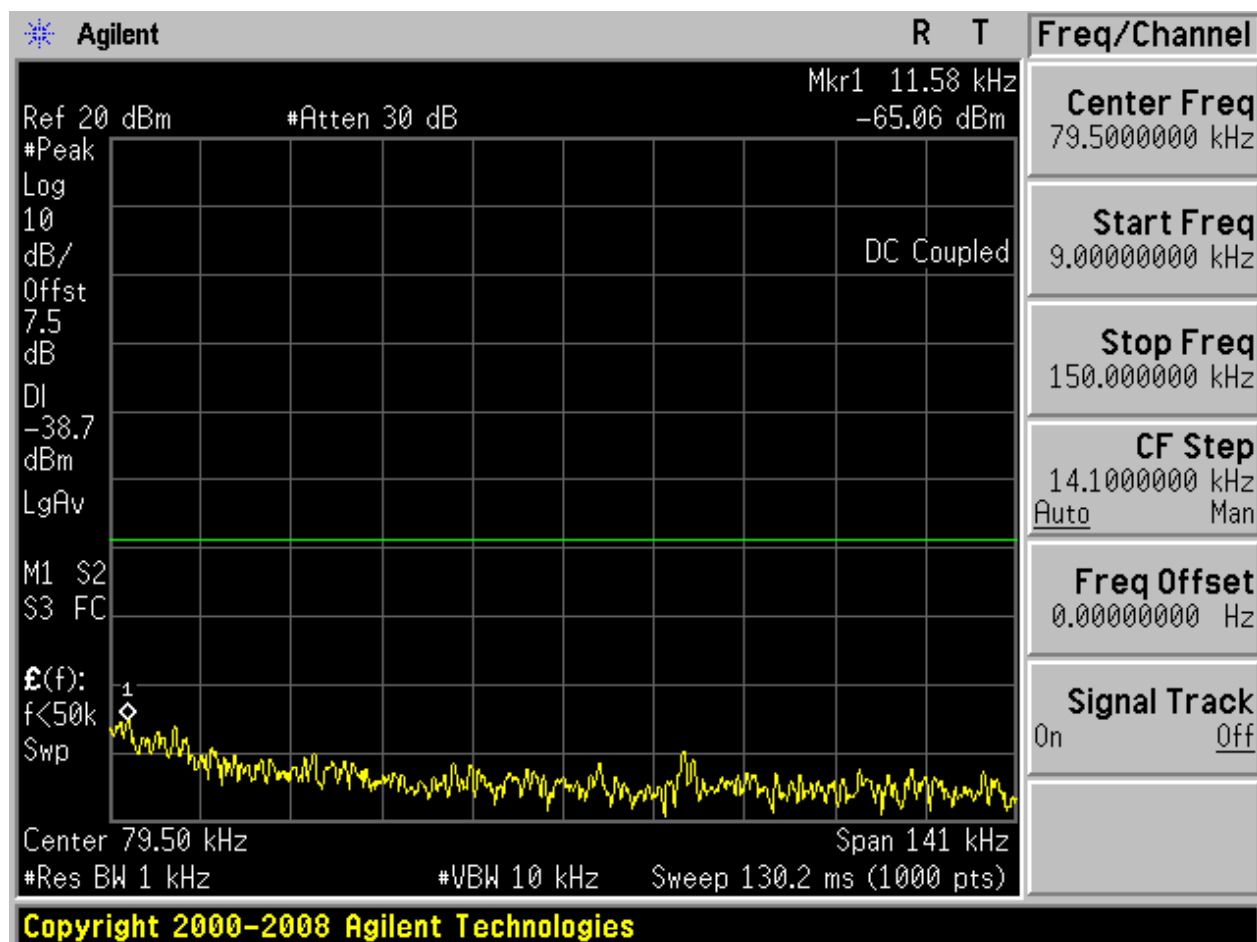
2.3 TM1_DH5_Ch78

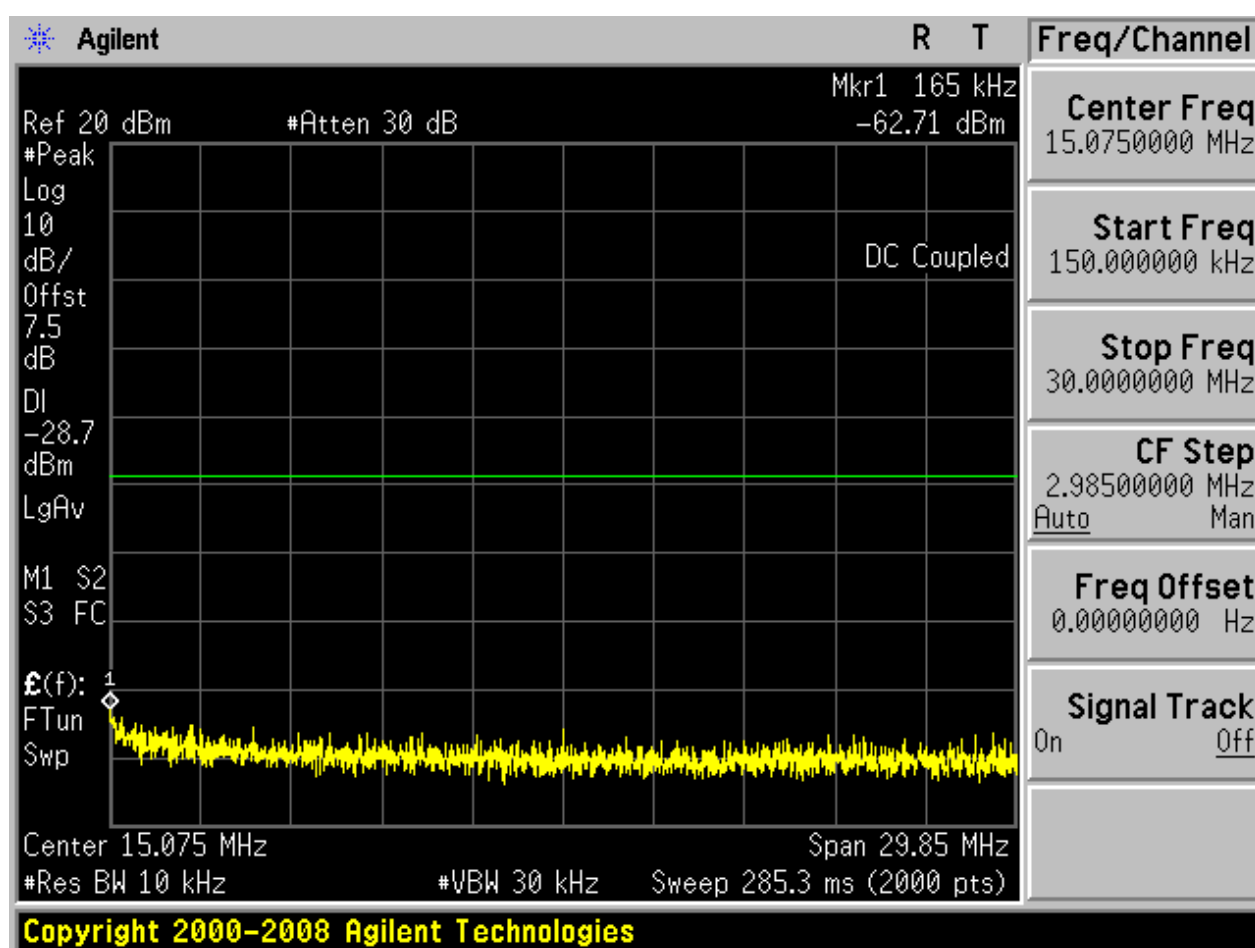
2.3.1 Pref

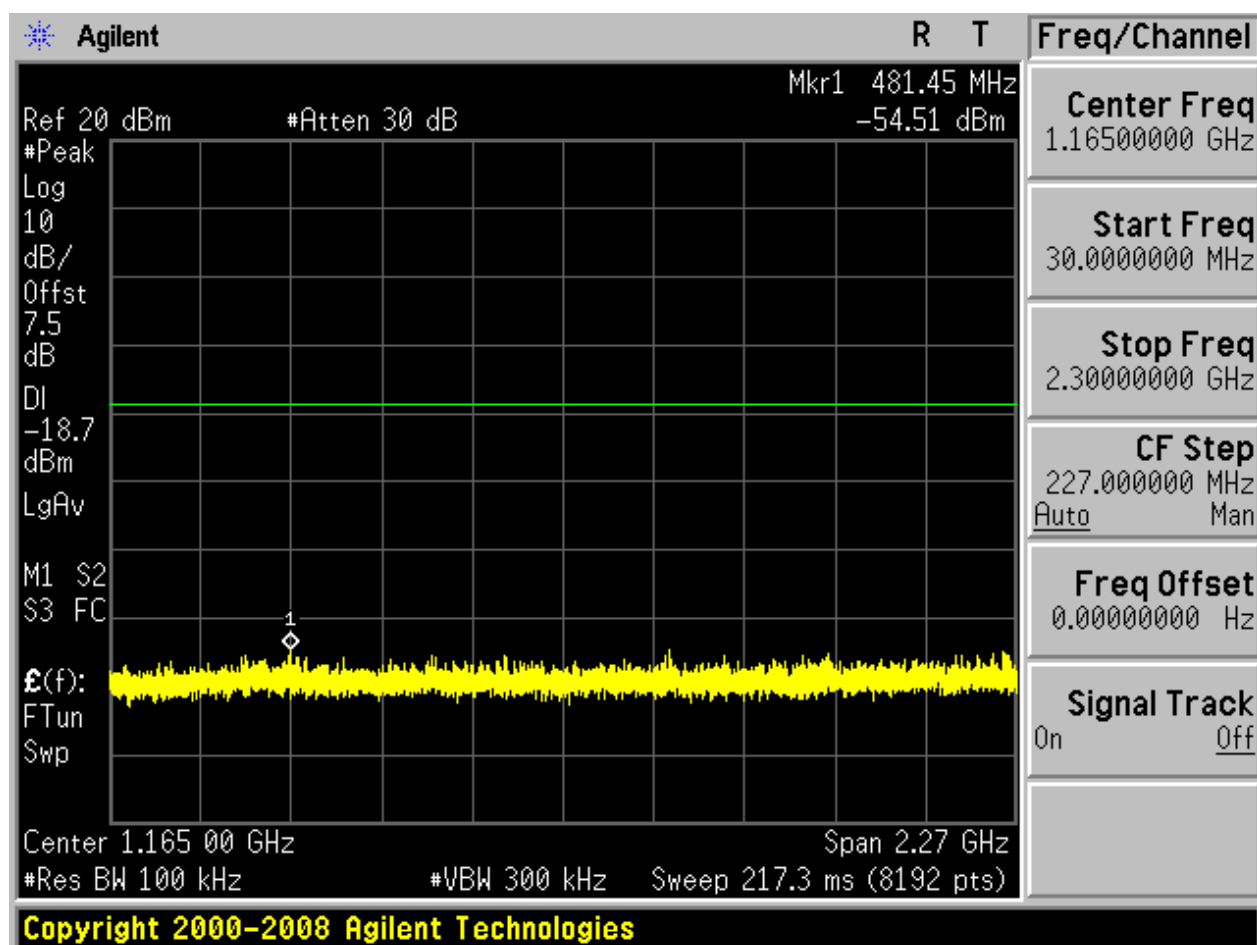


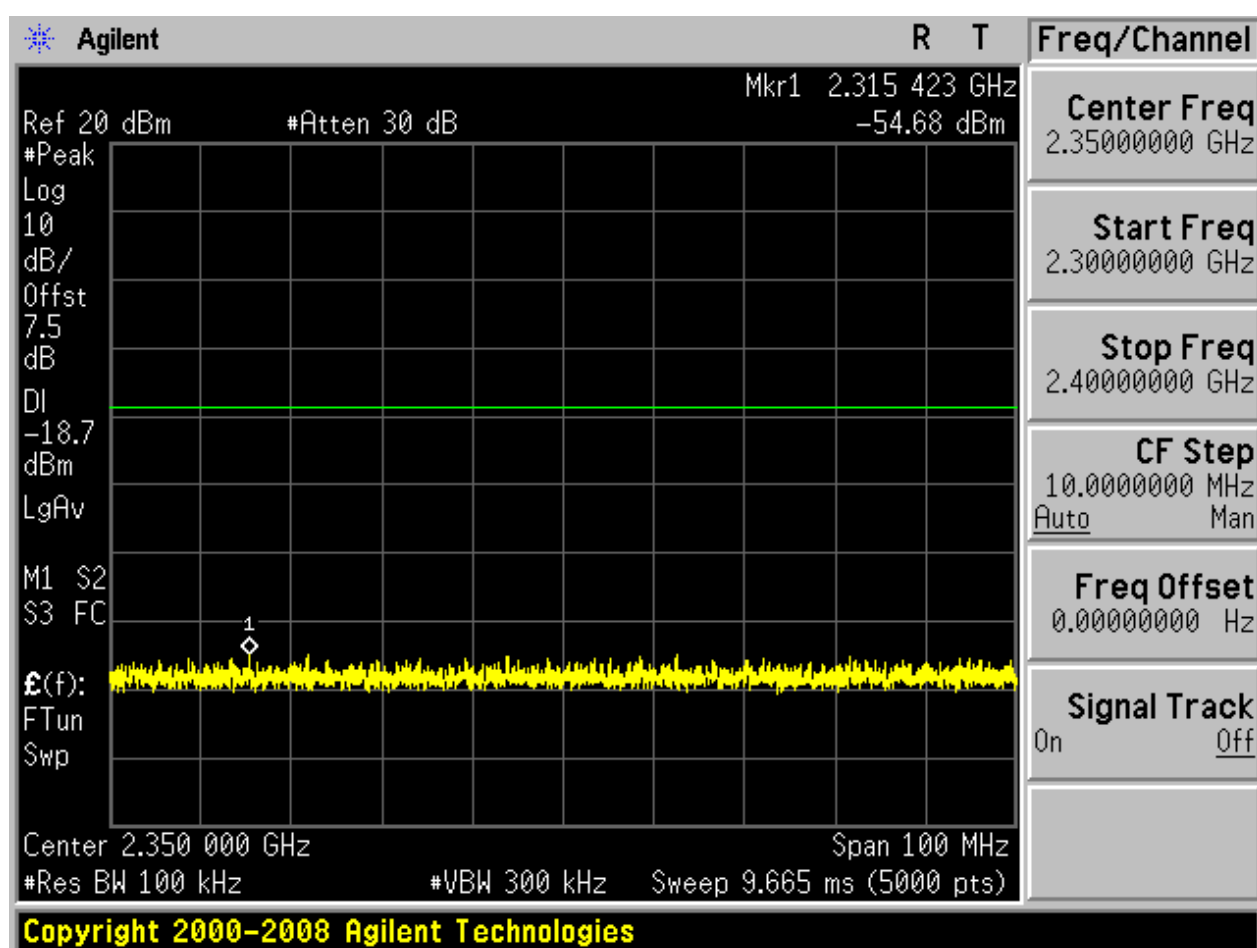


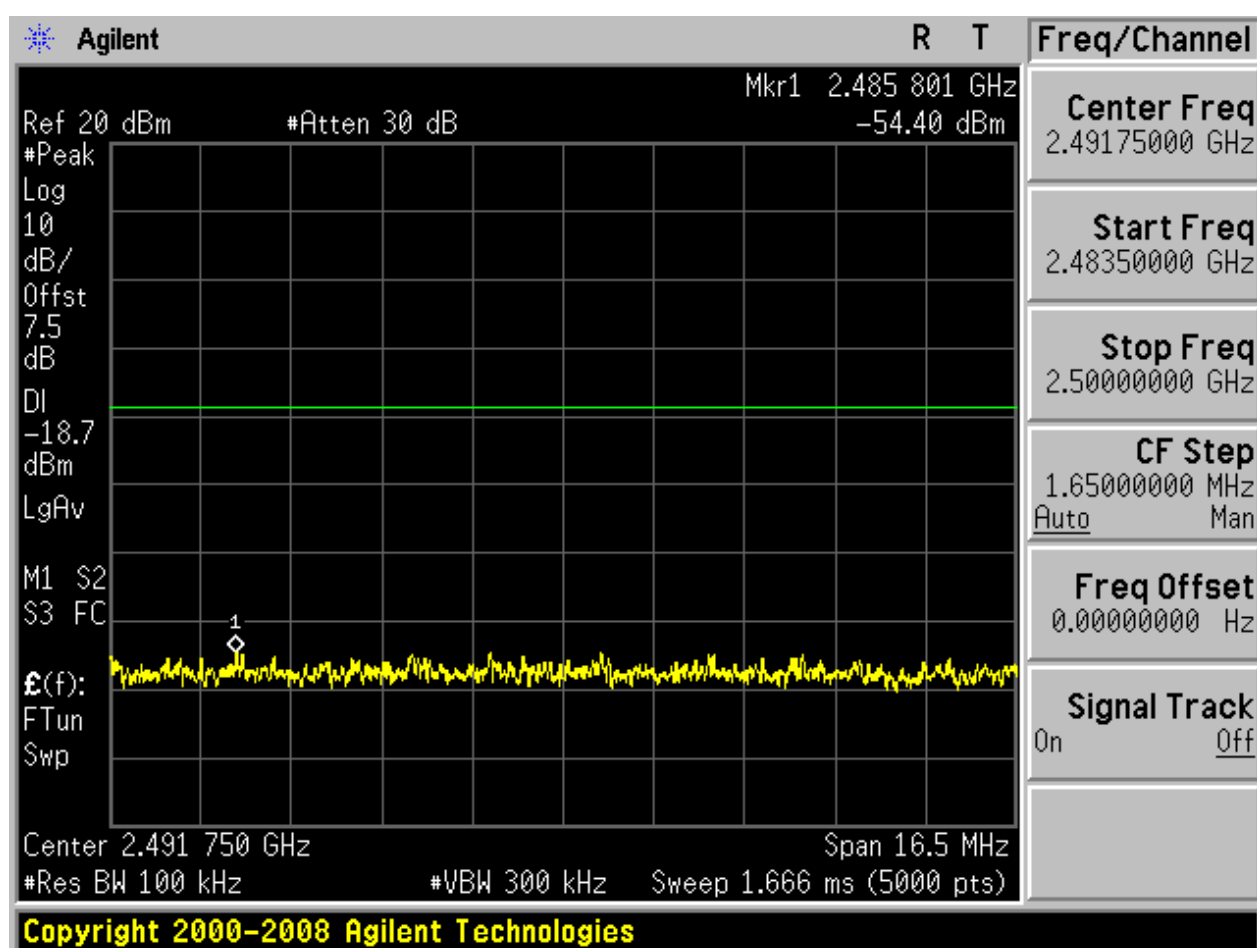
2.3.2 Puw

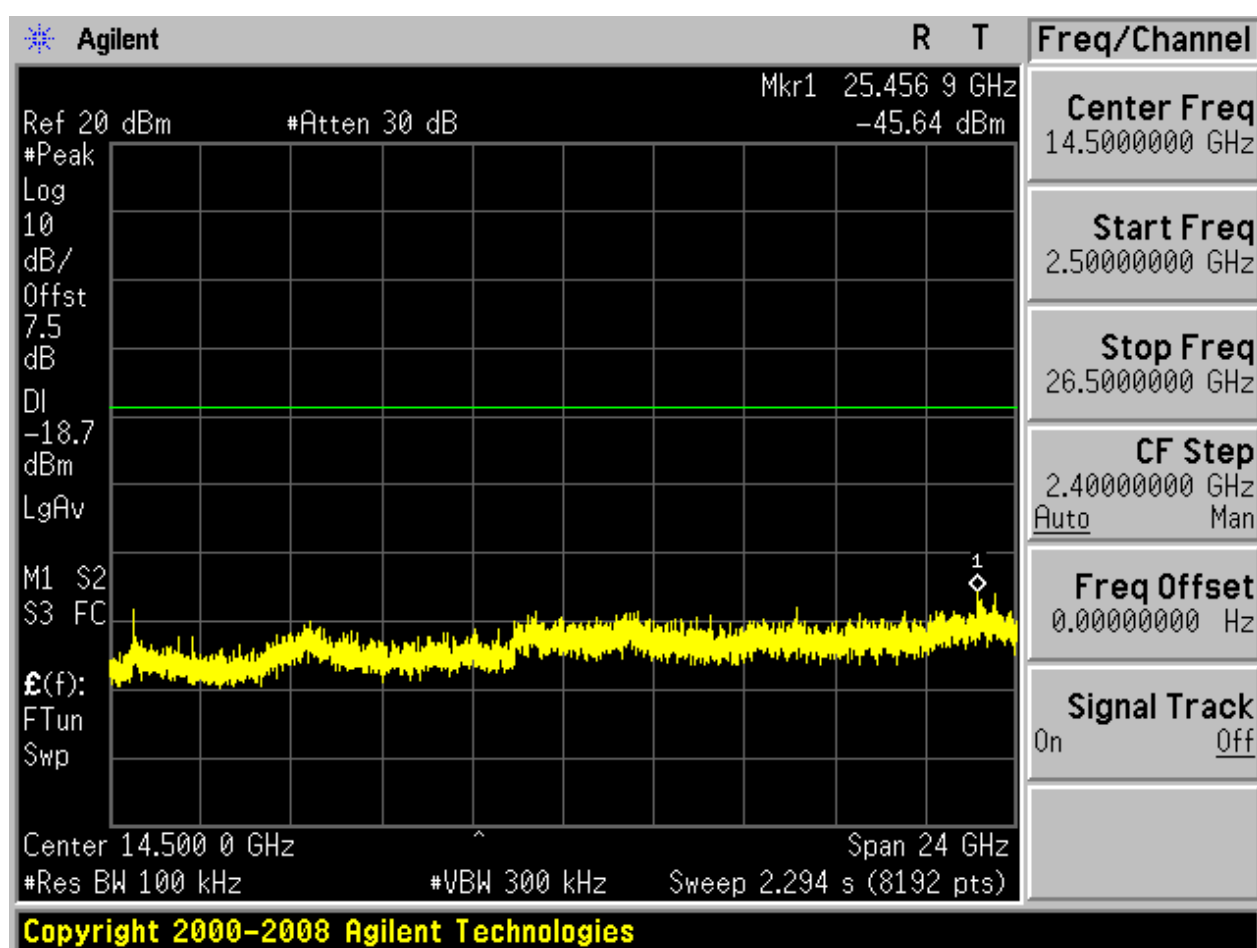








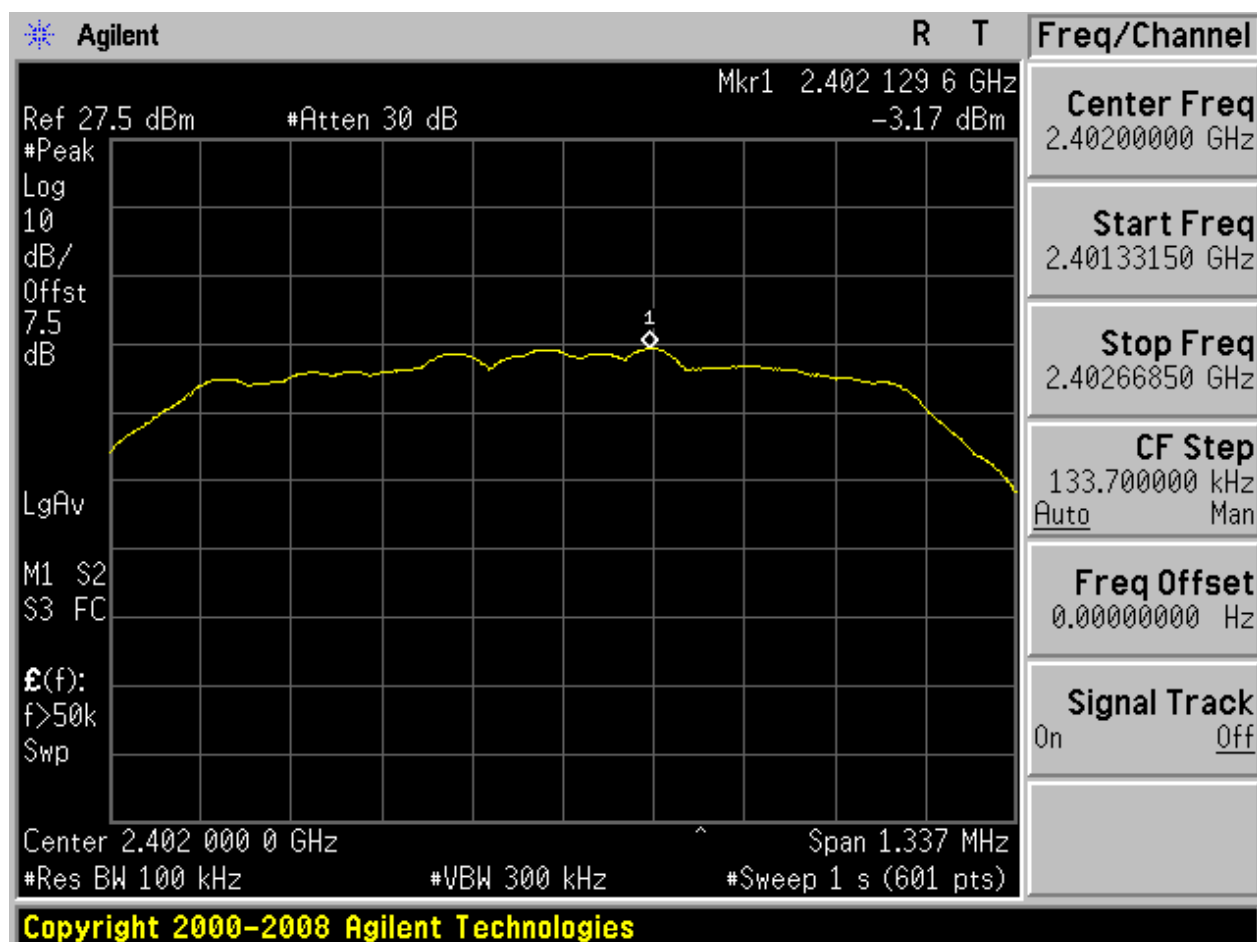




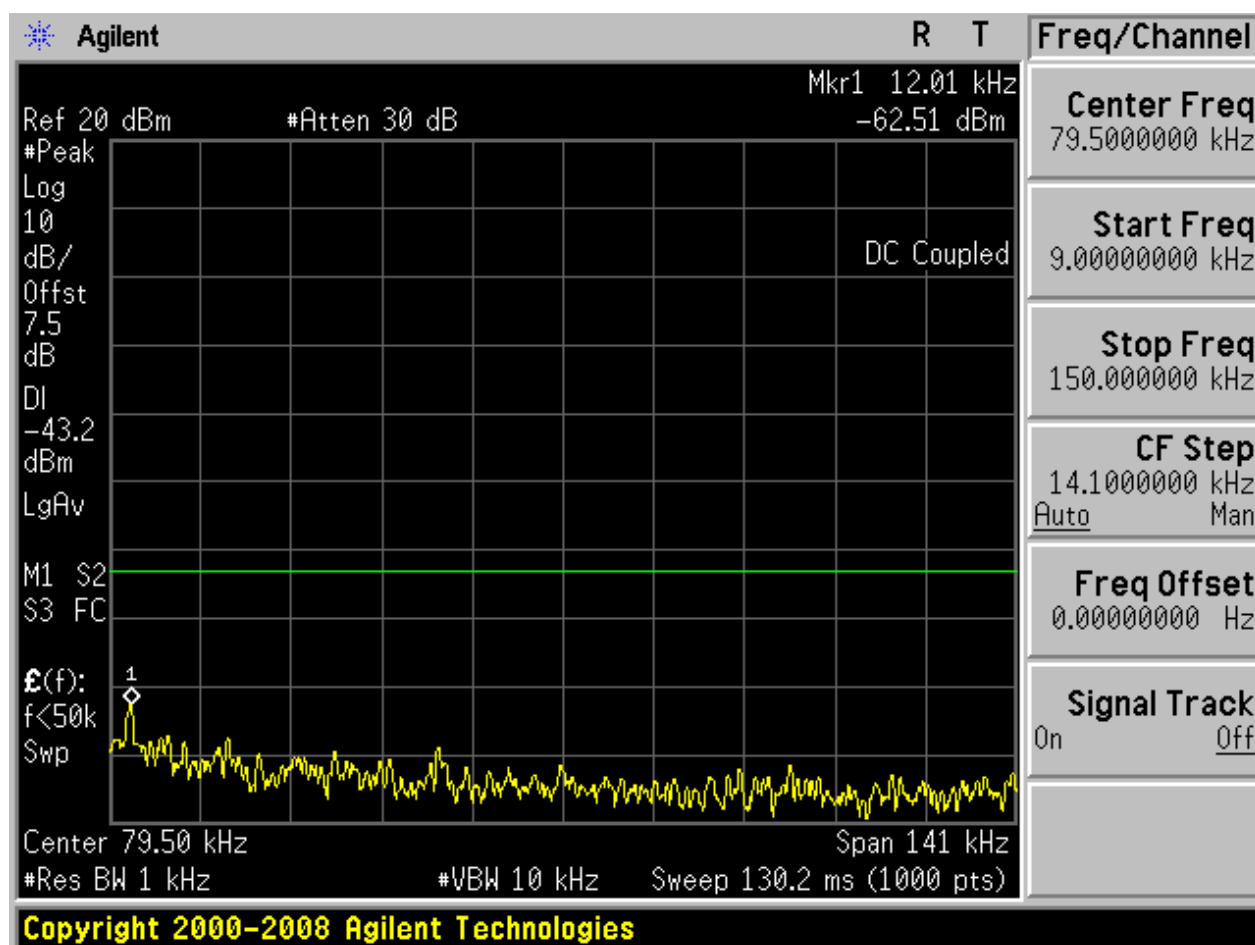


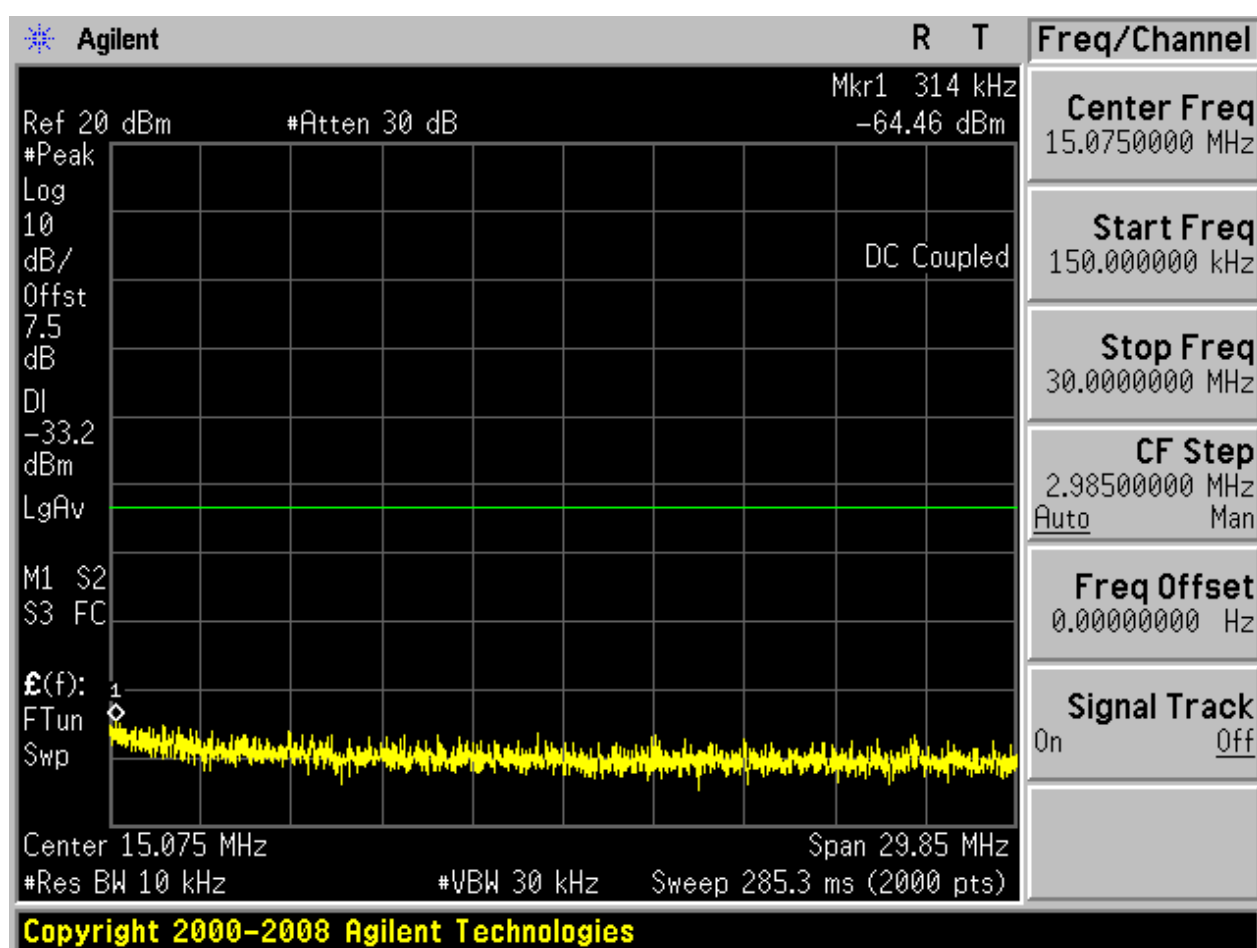
2.4 TM2_2DH5_Ch0

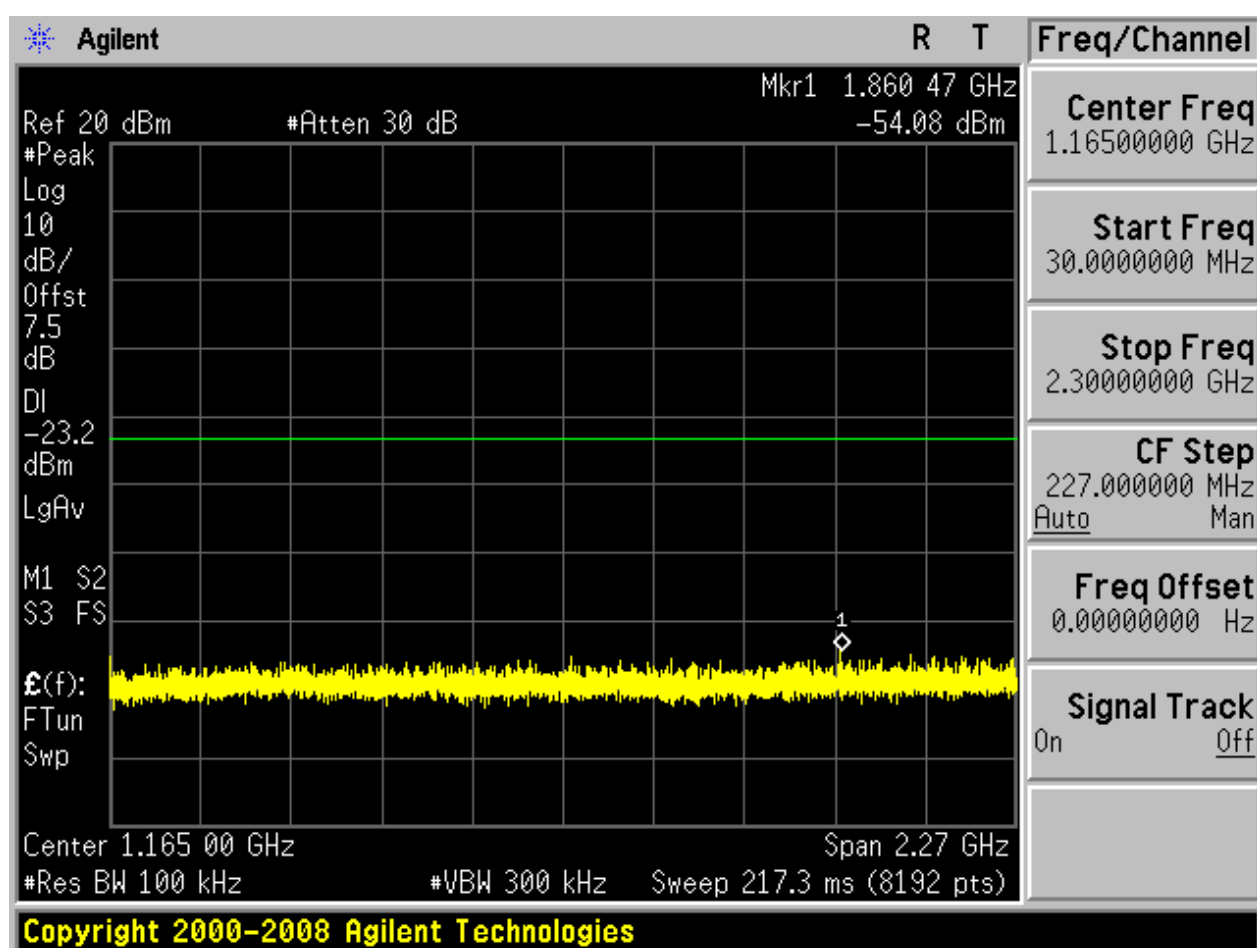
2.4.1 Pref

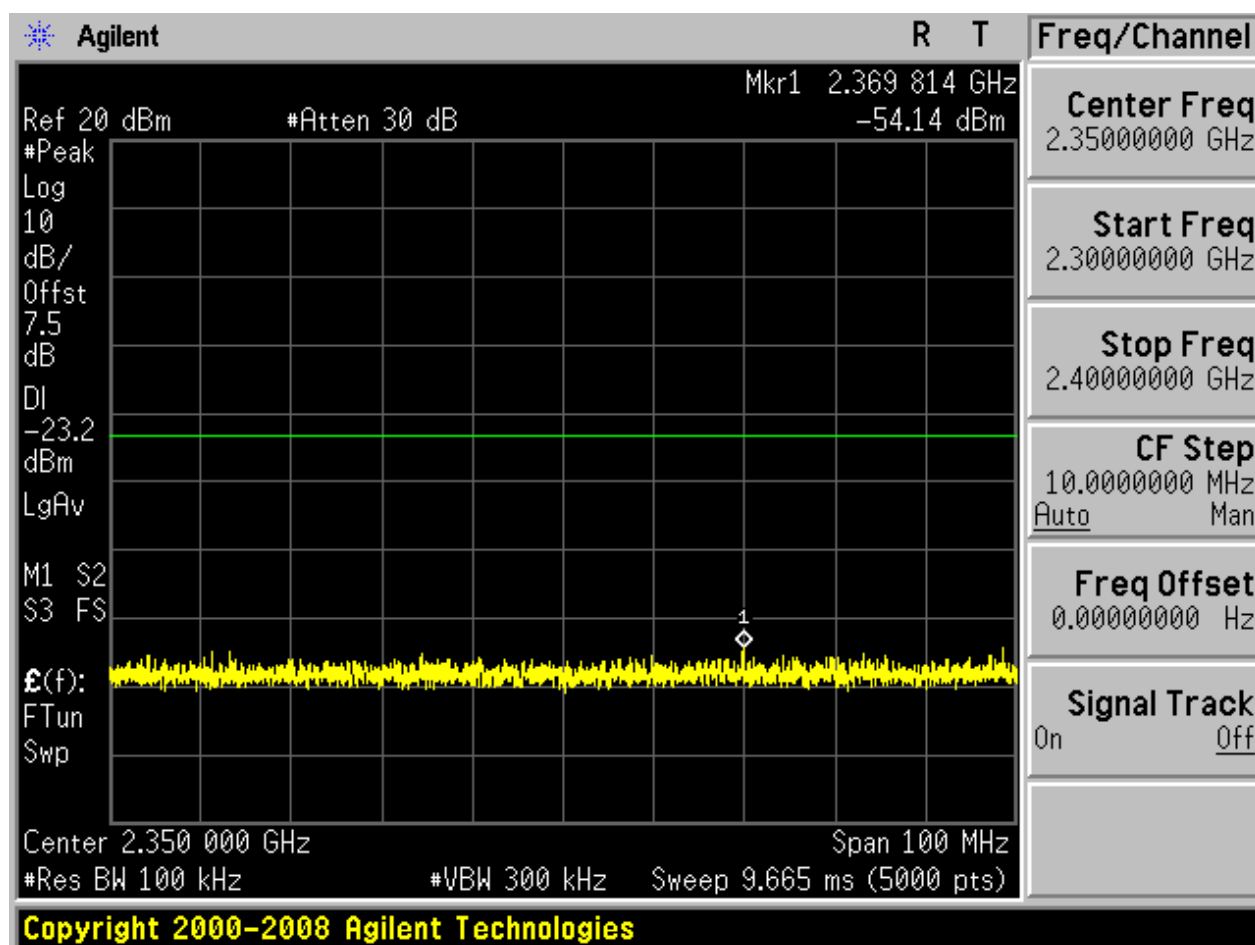


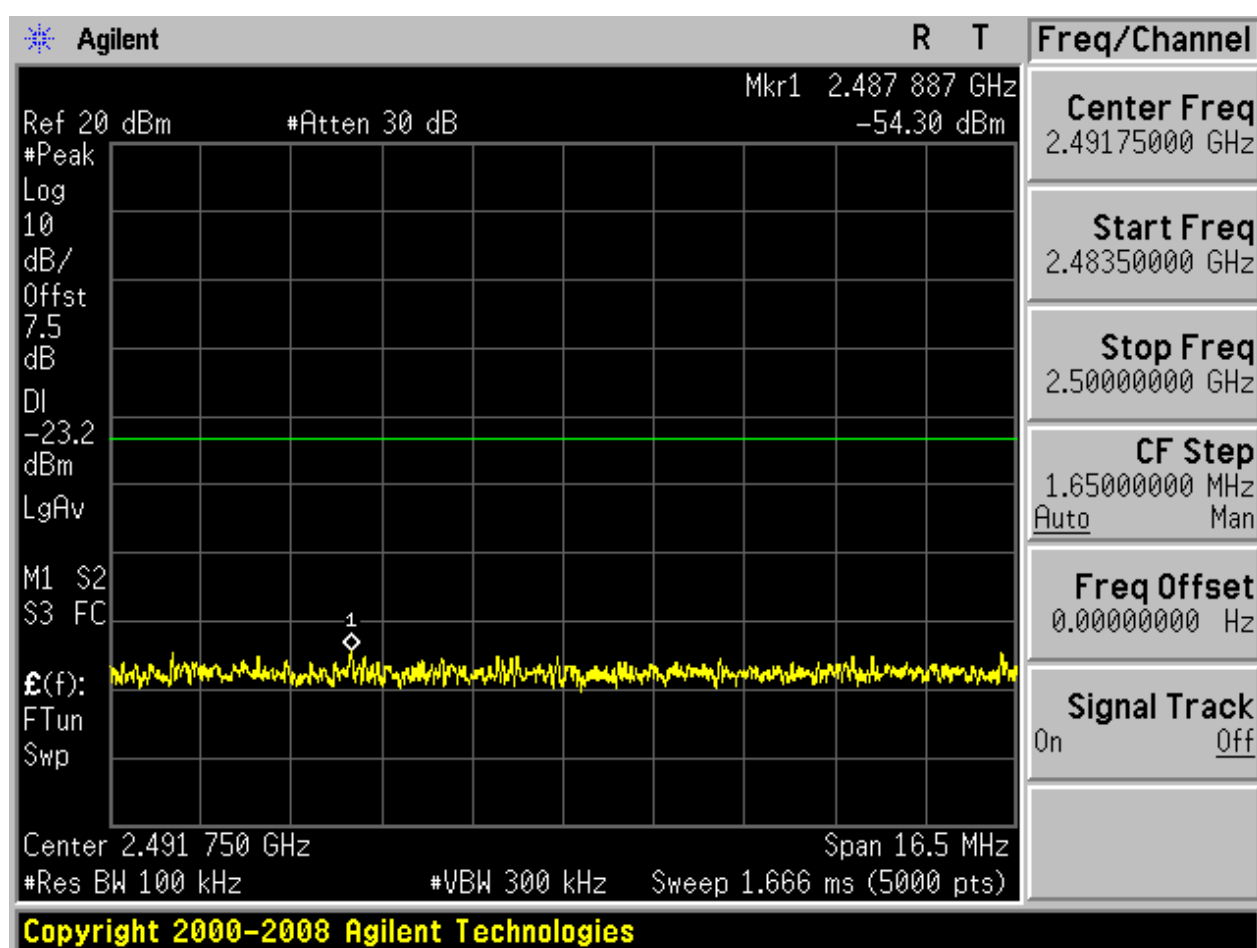
2.4.2 Puw

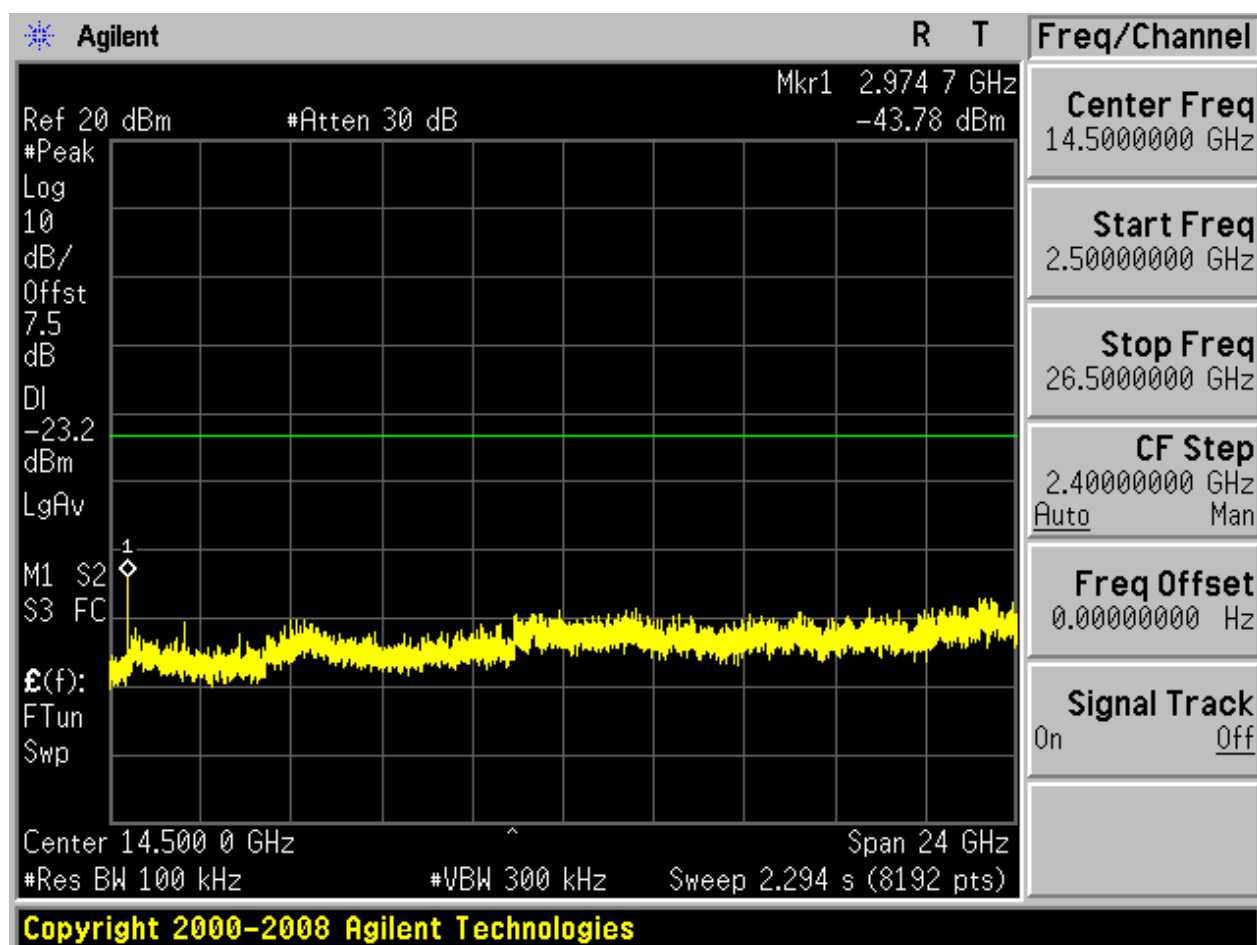








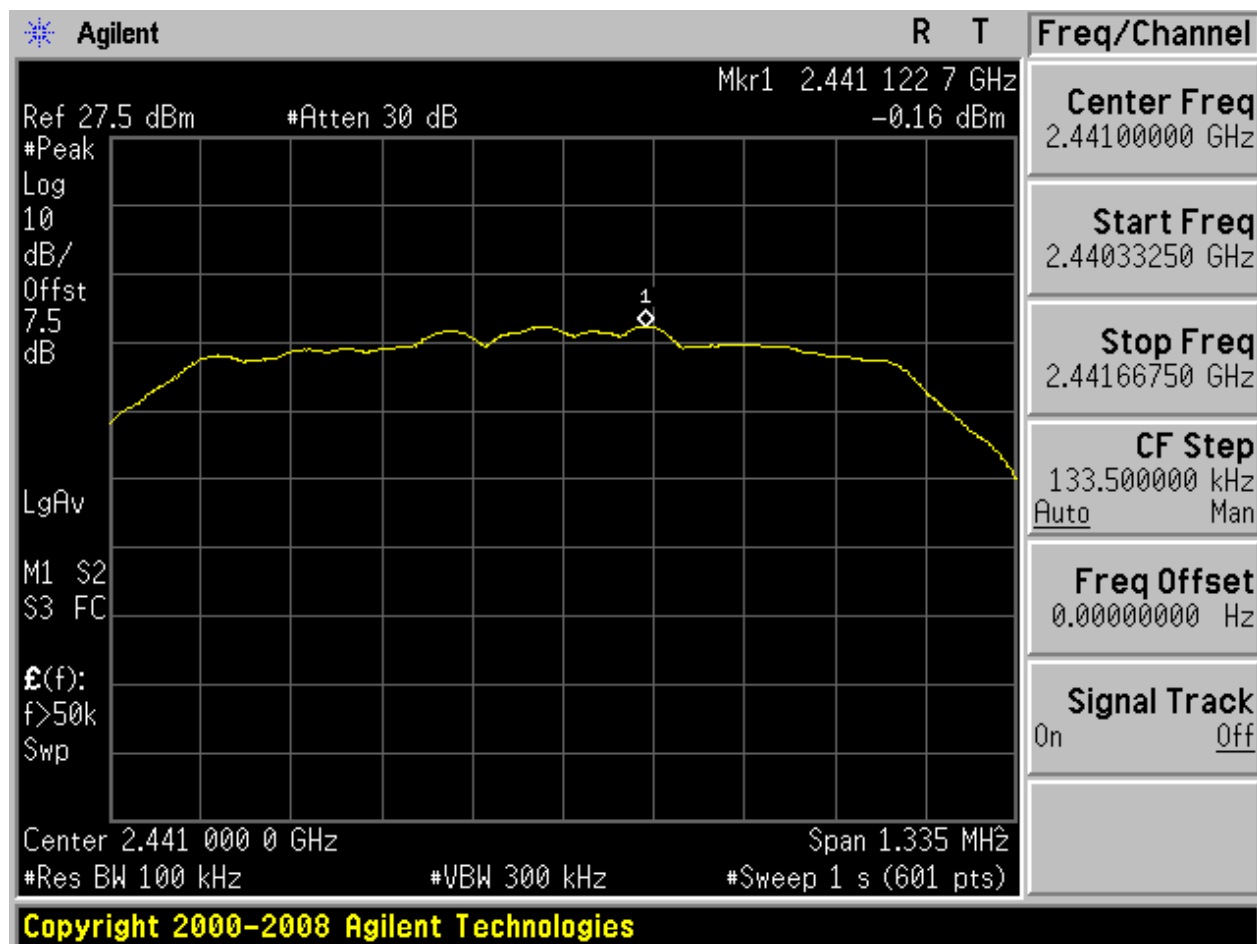




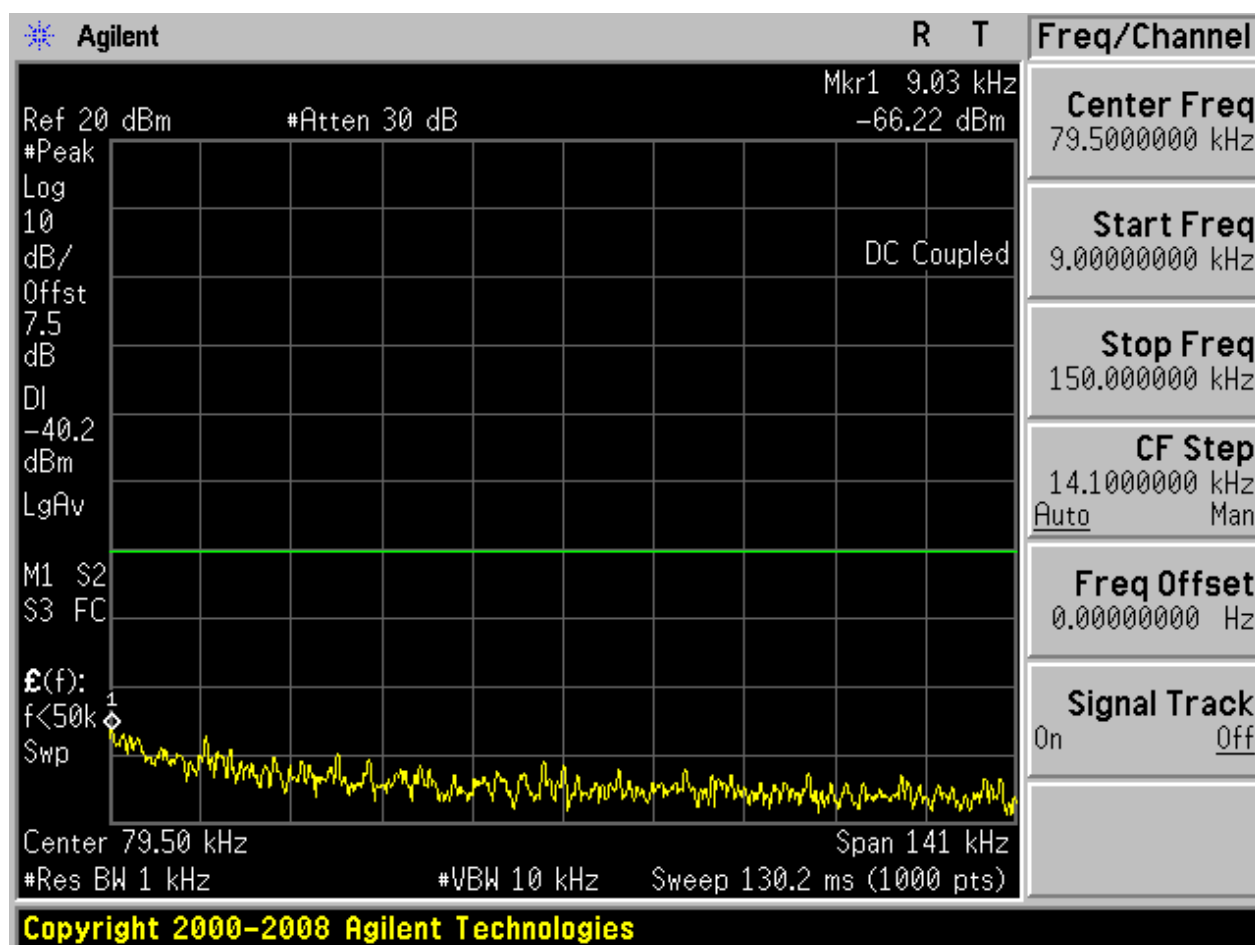


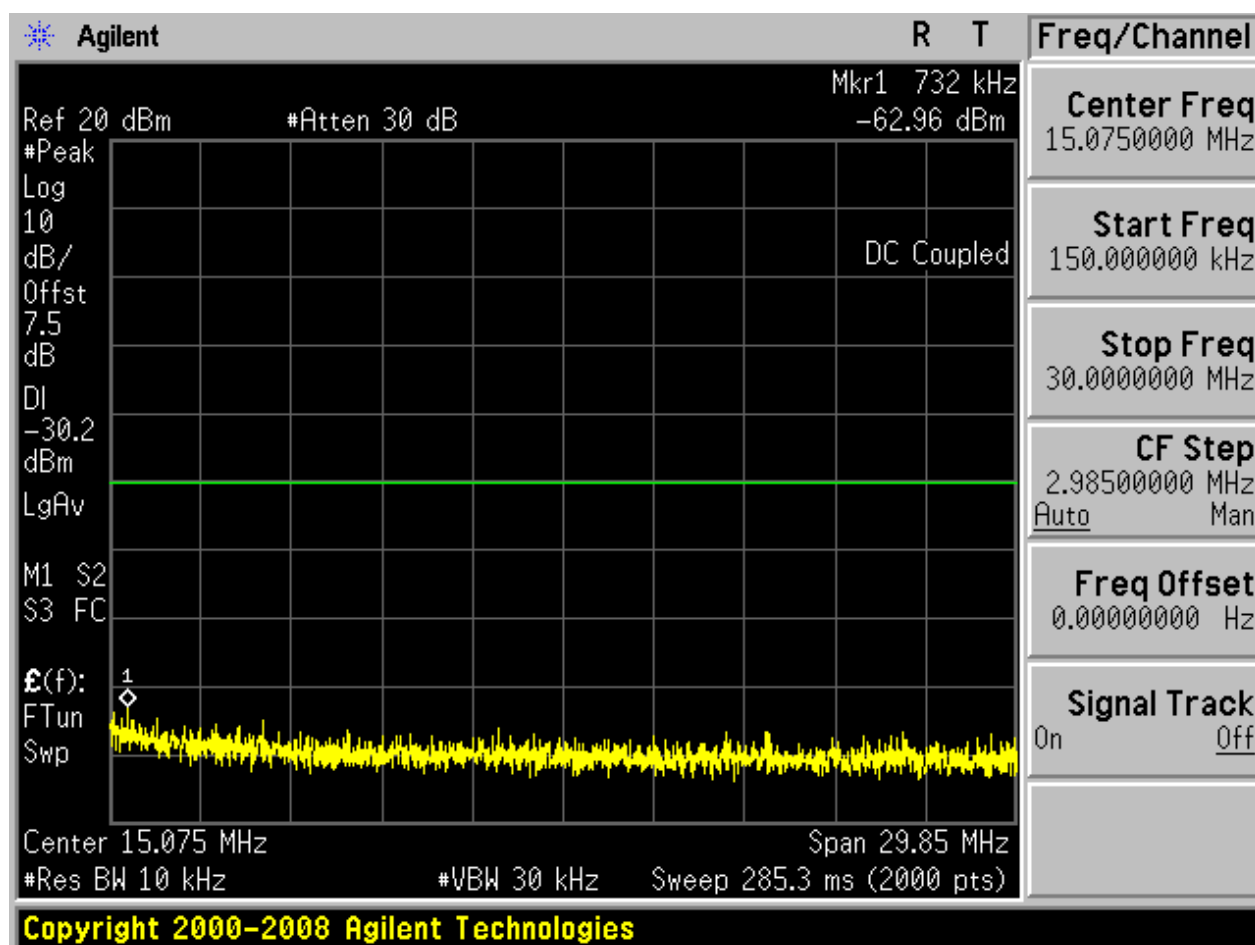
2.5 TM2_2DH5_Ch39

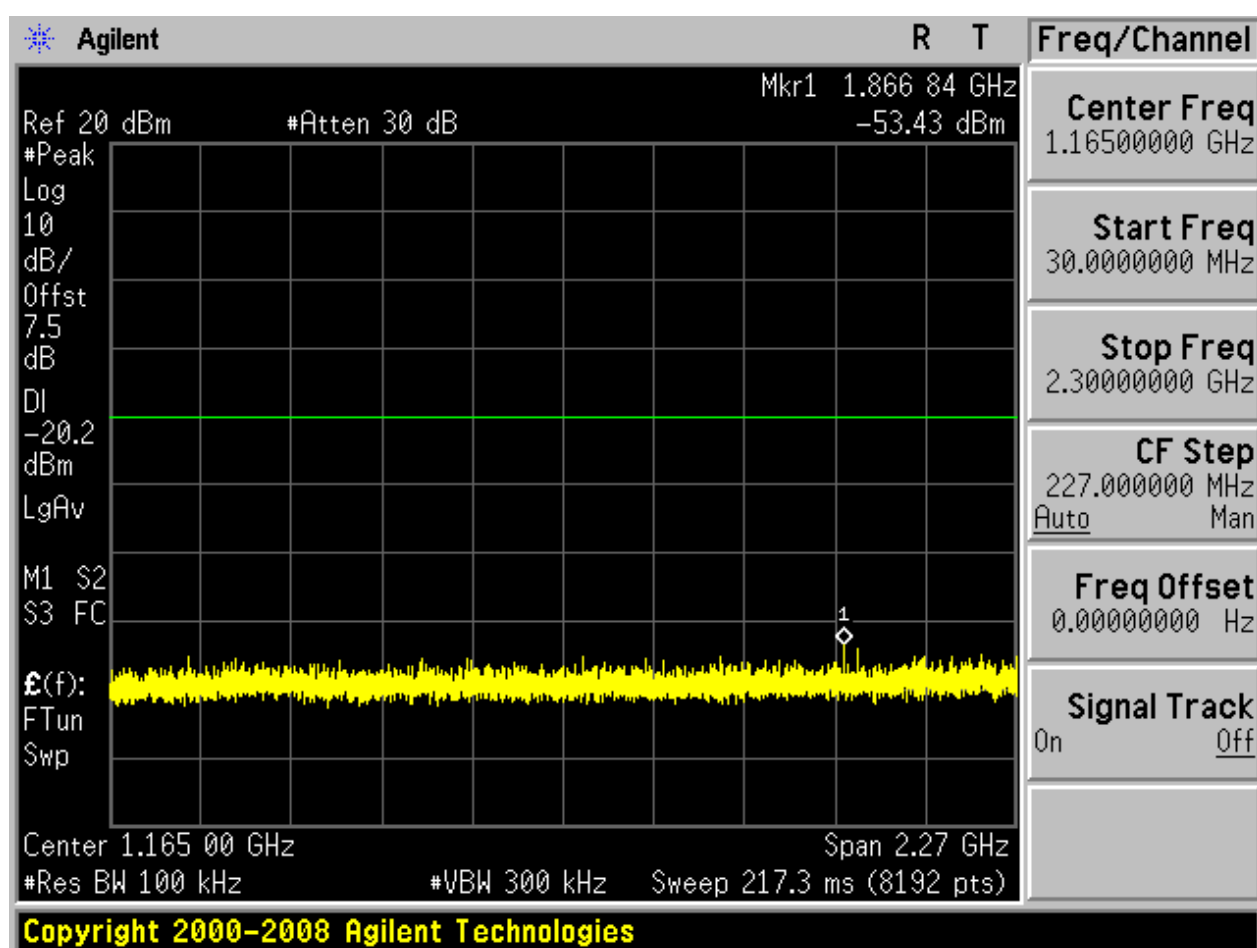
2.5.1 Pref

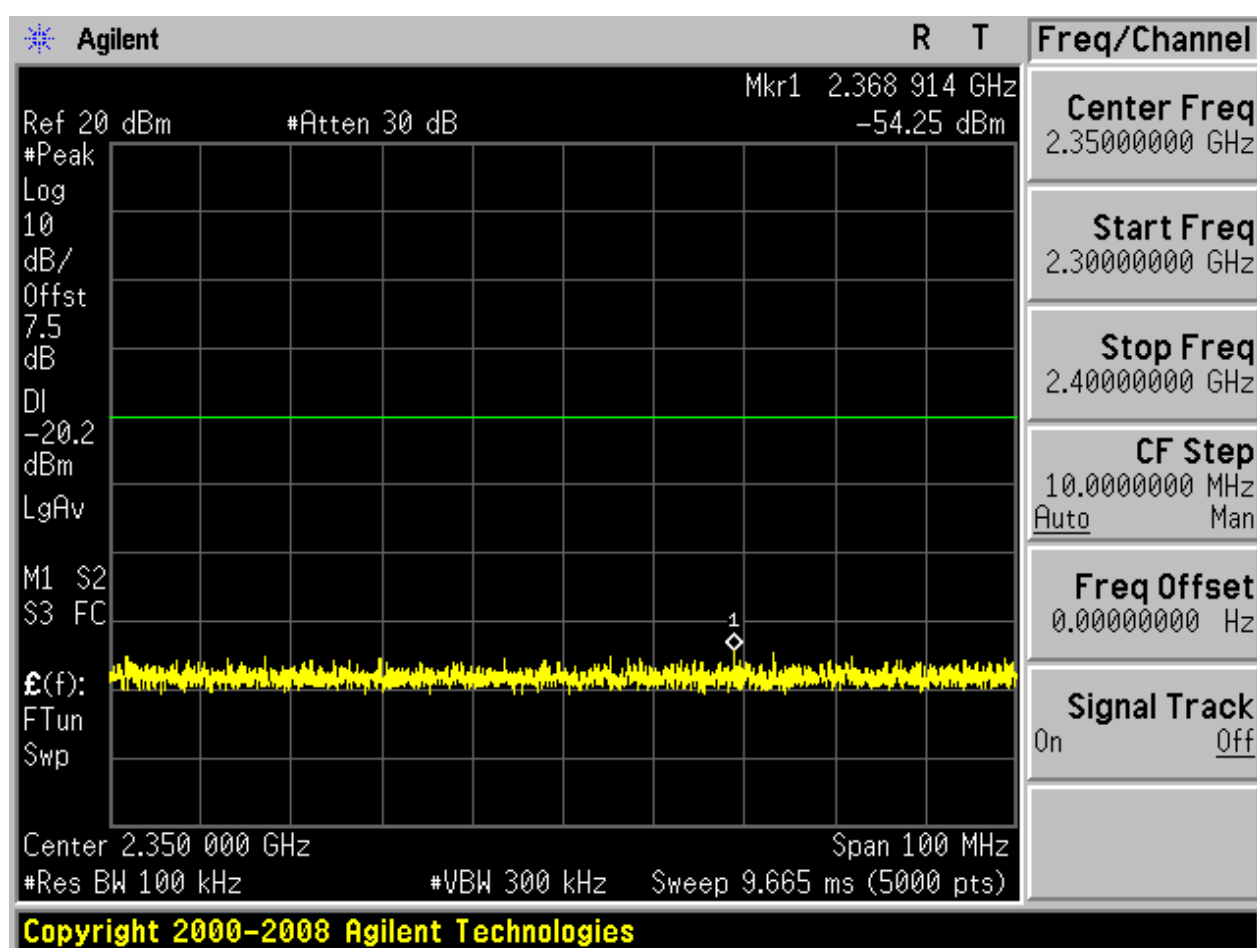


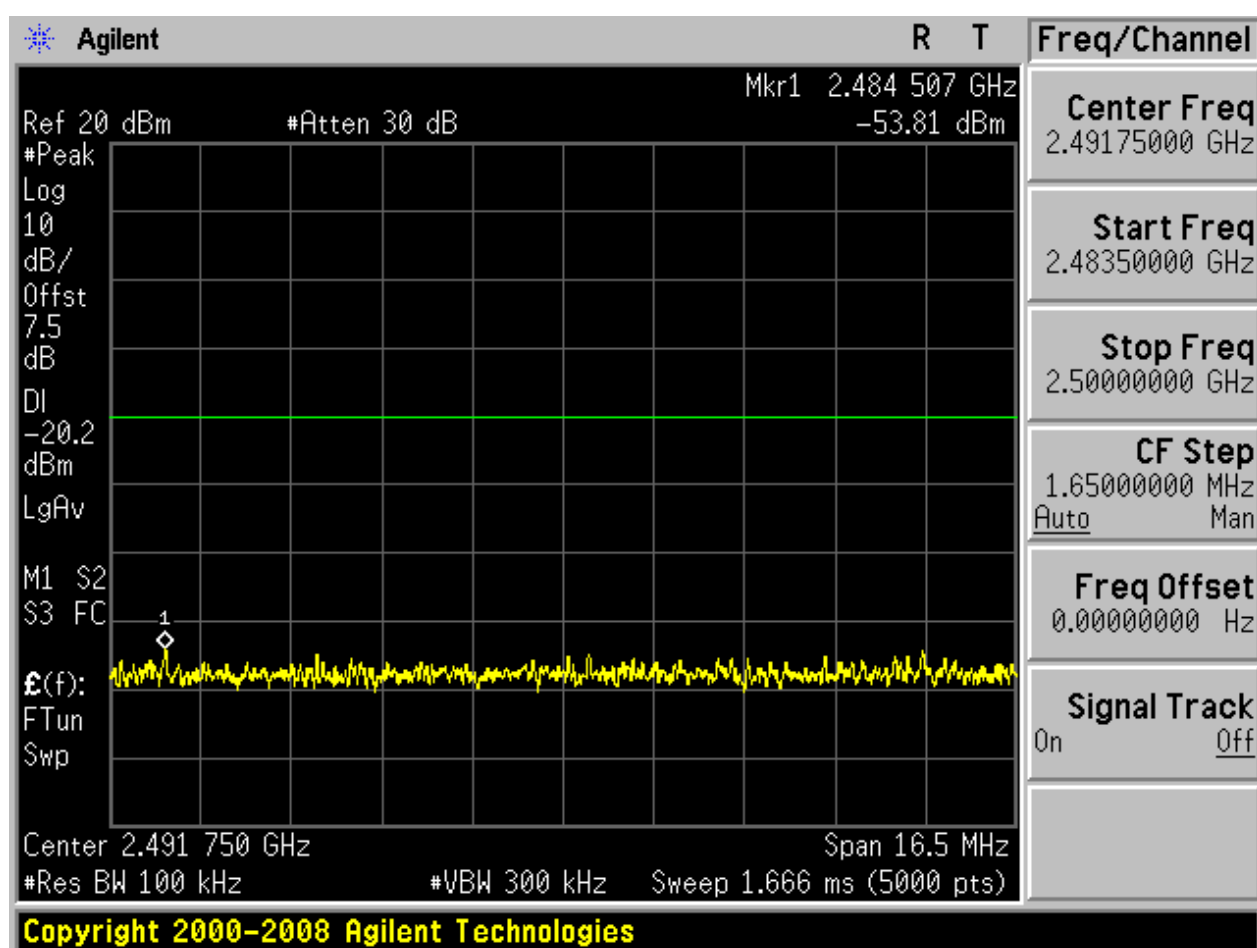
2.5.2 Puw

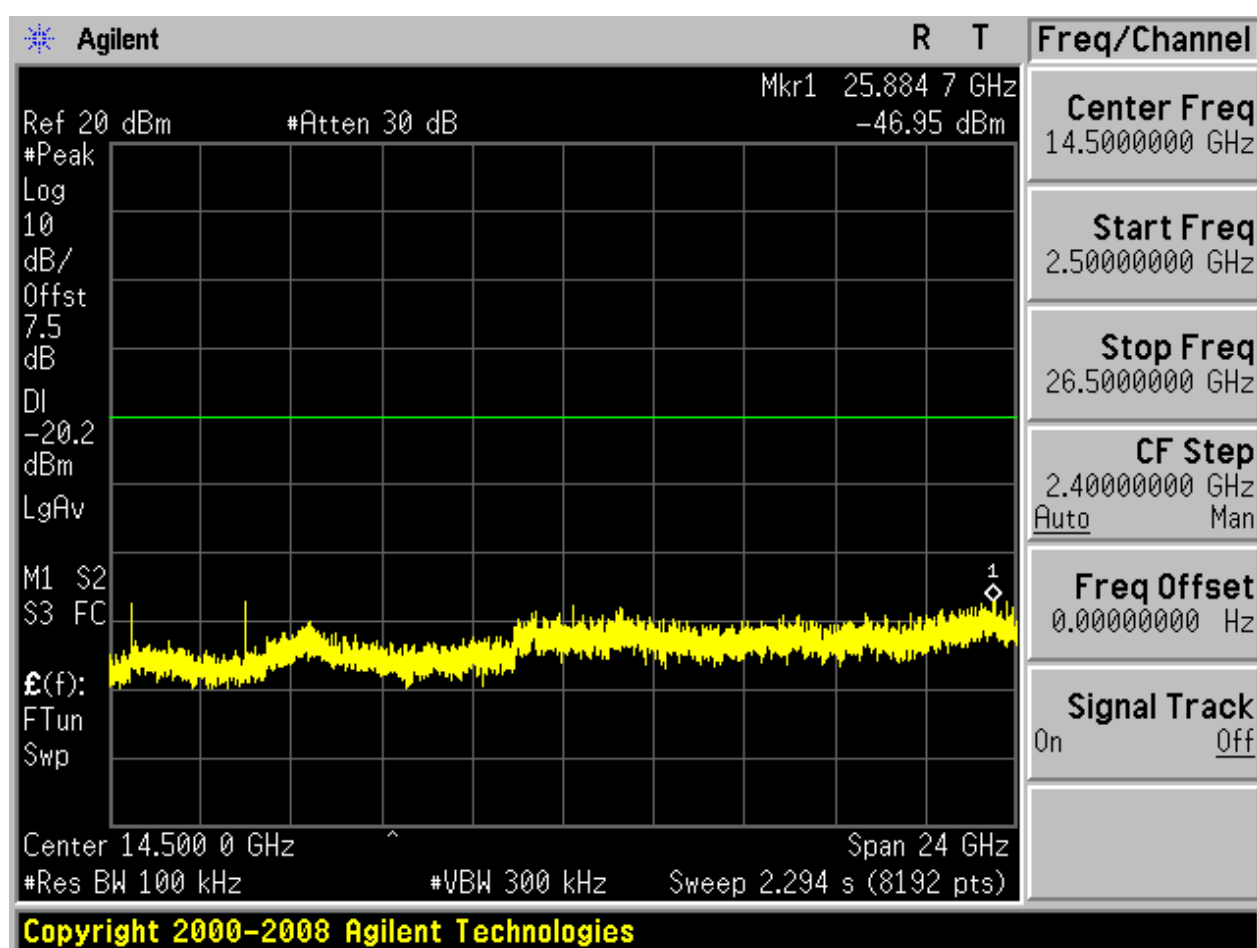








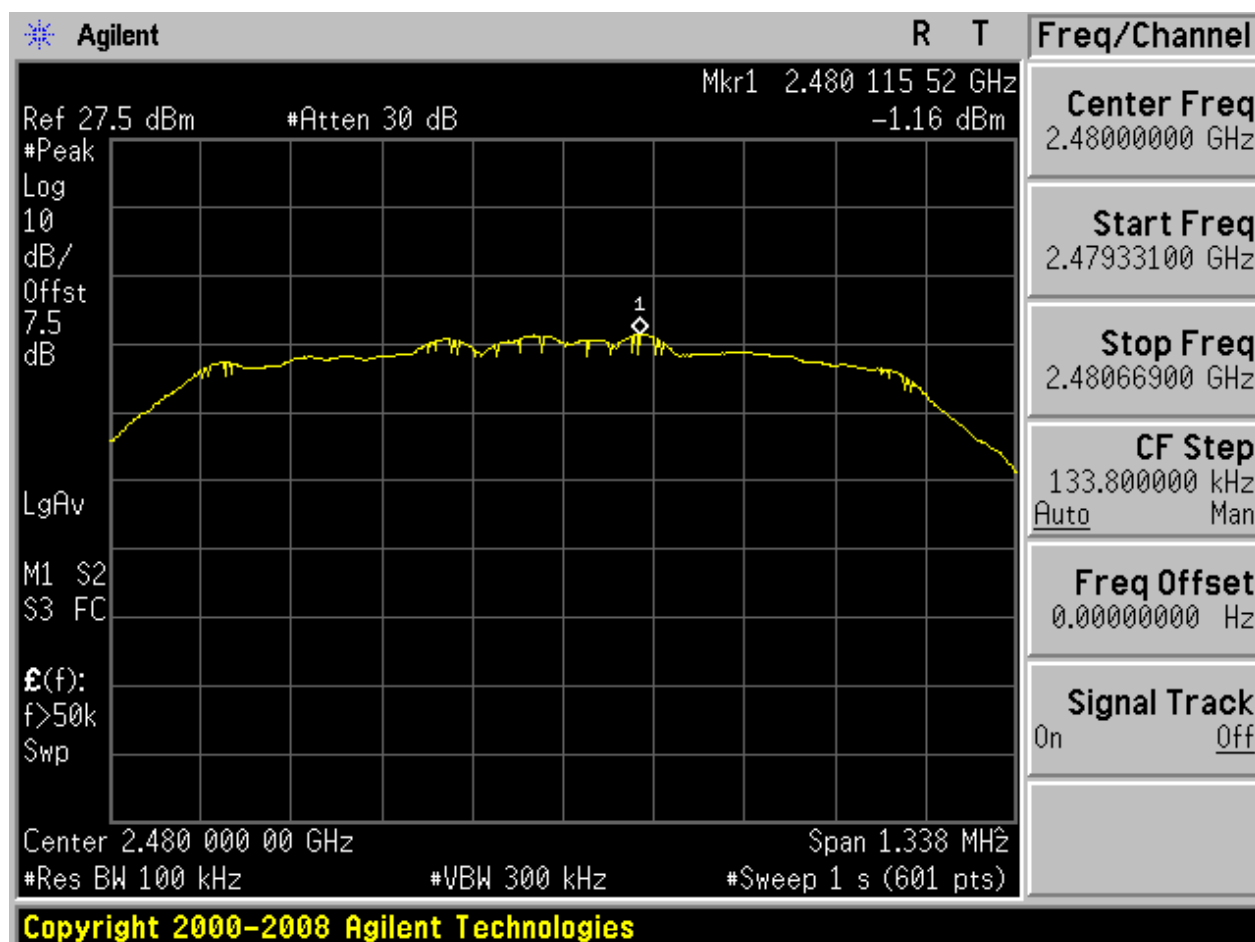




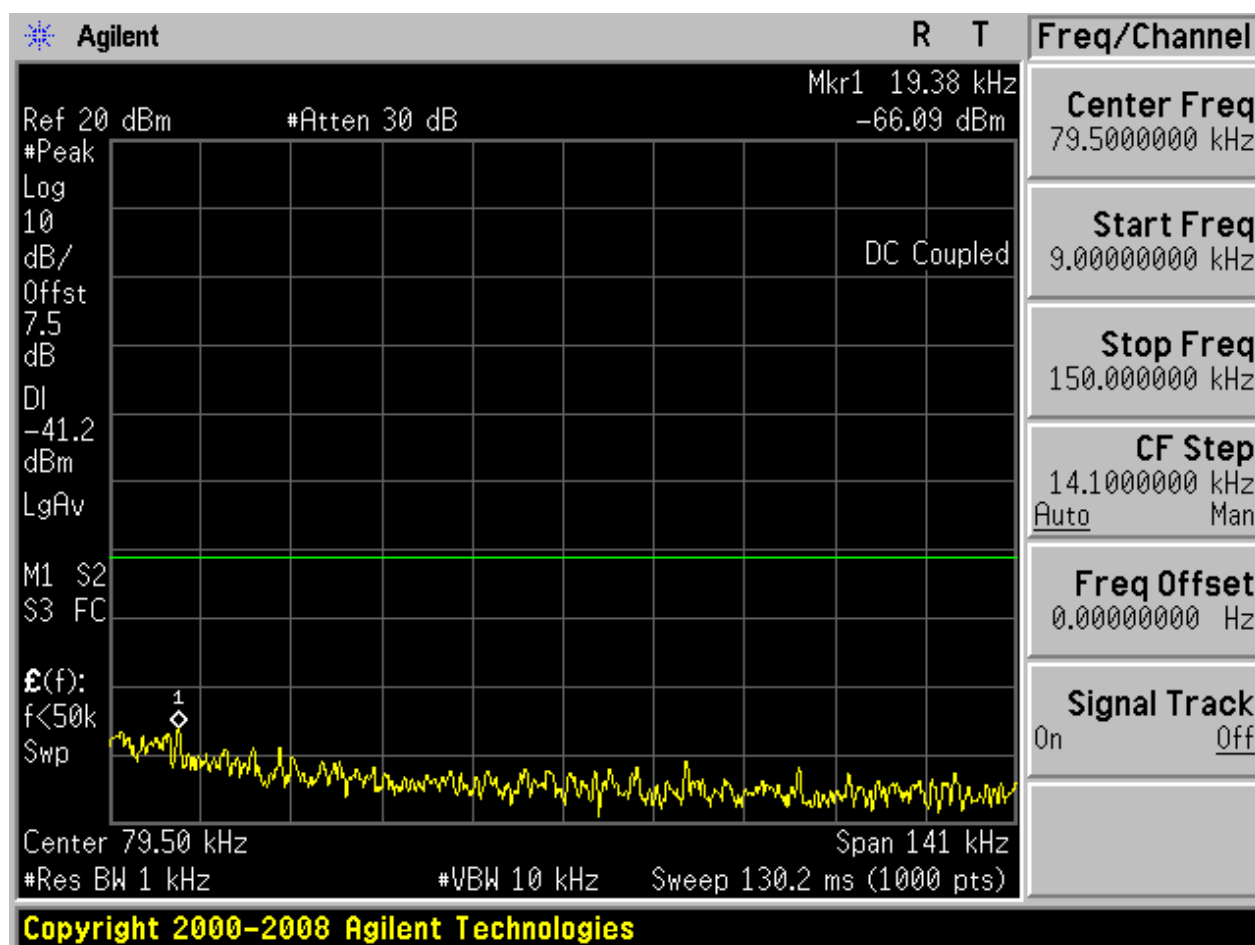


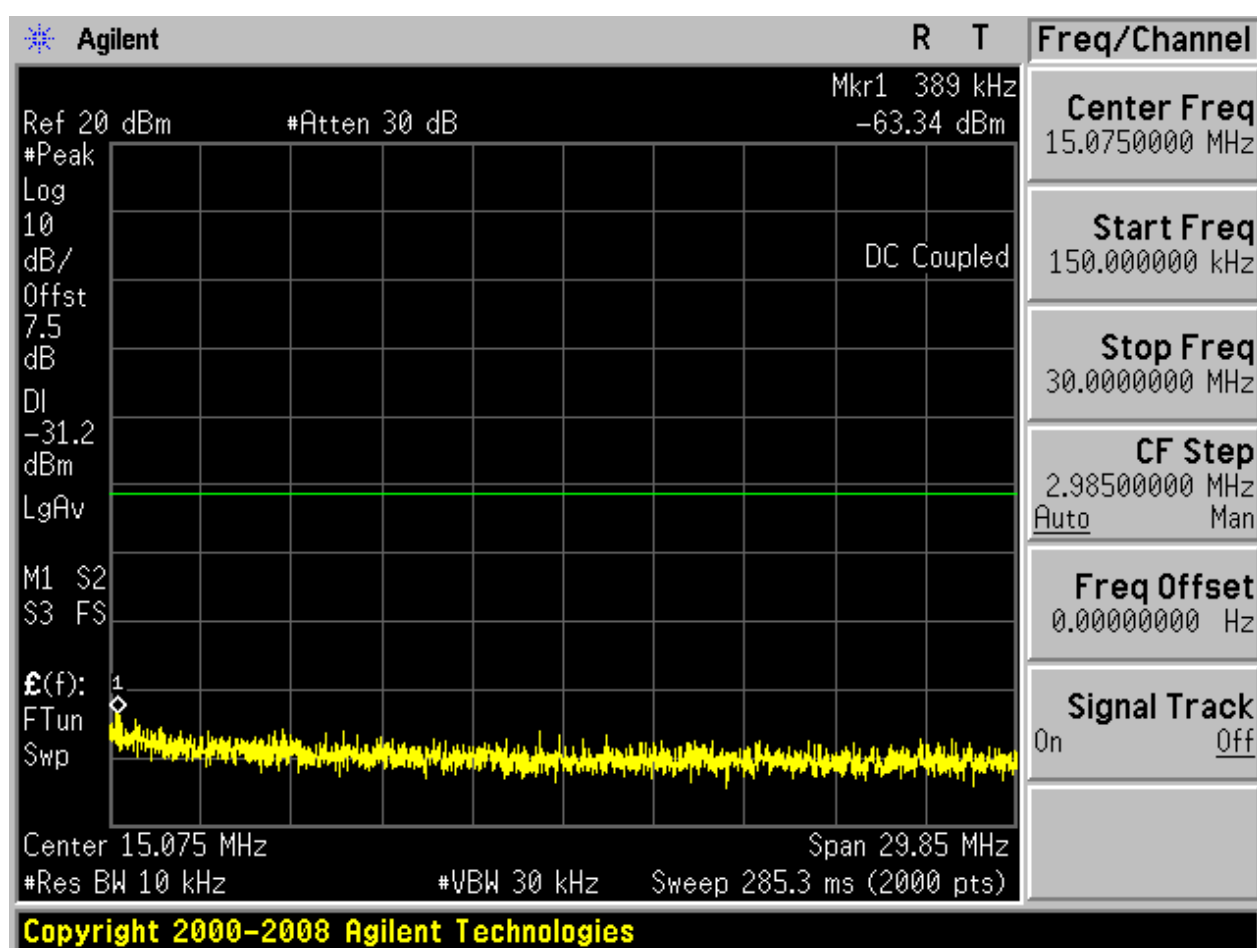
2.6 TM2_2DH5_Ch78

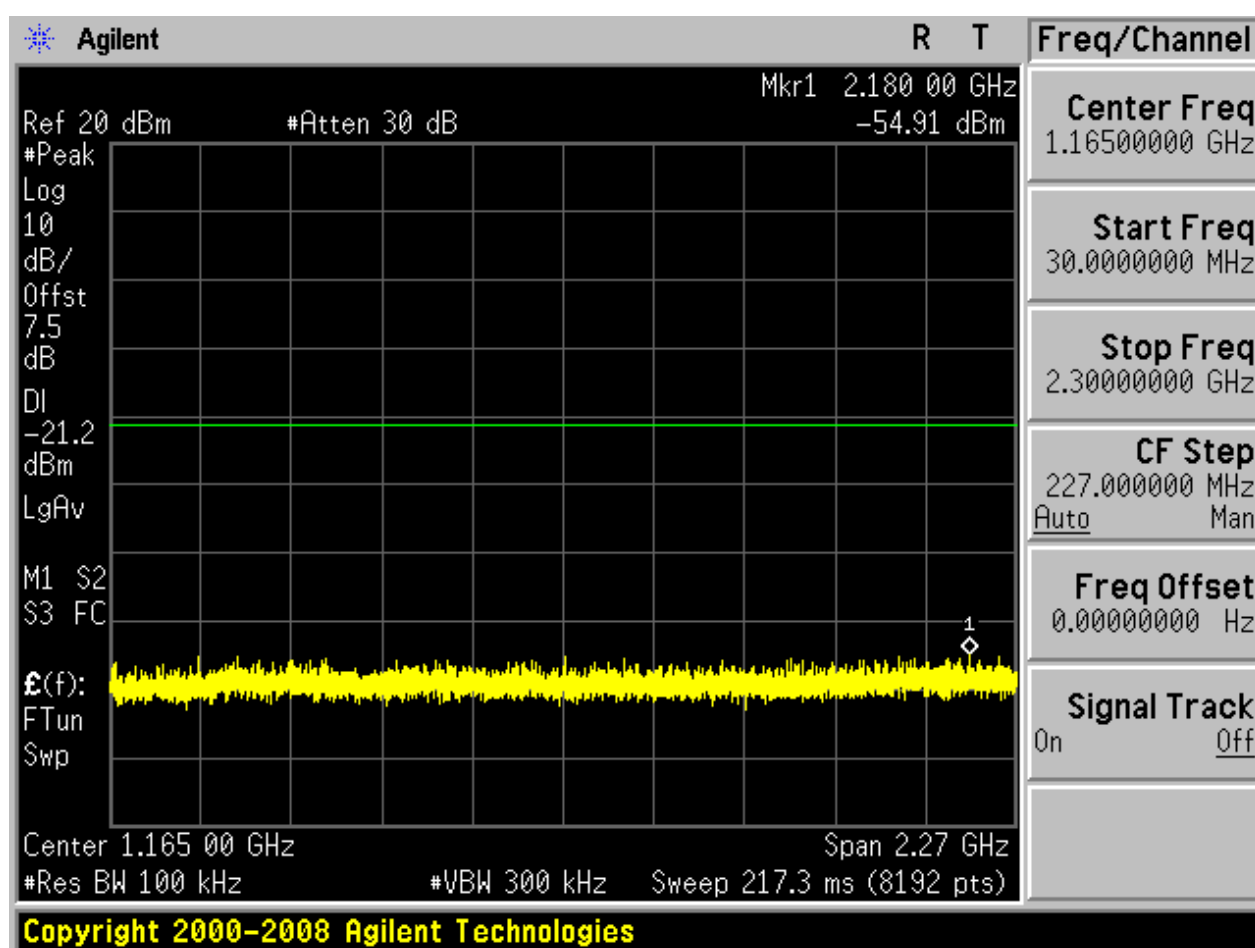
2.6.1 Pref

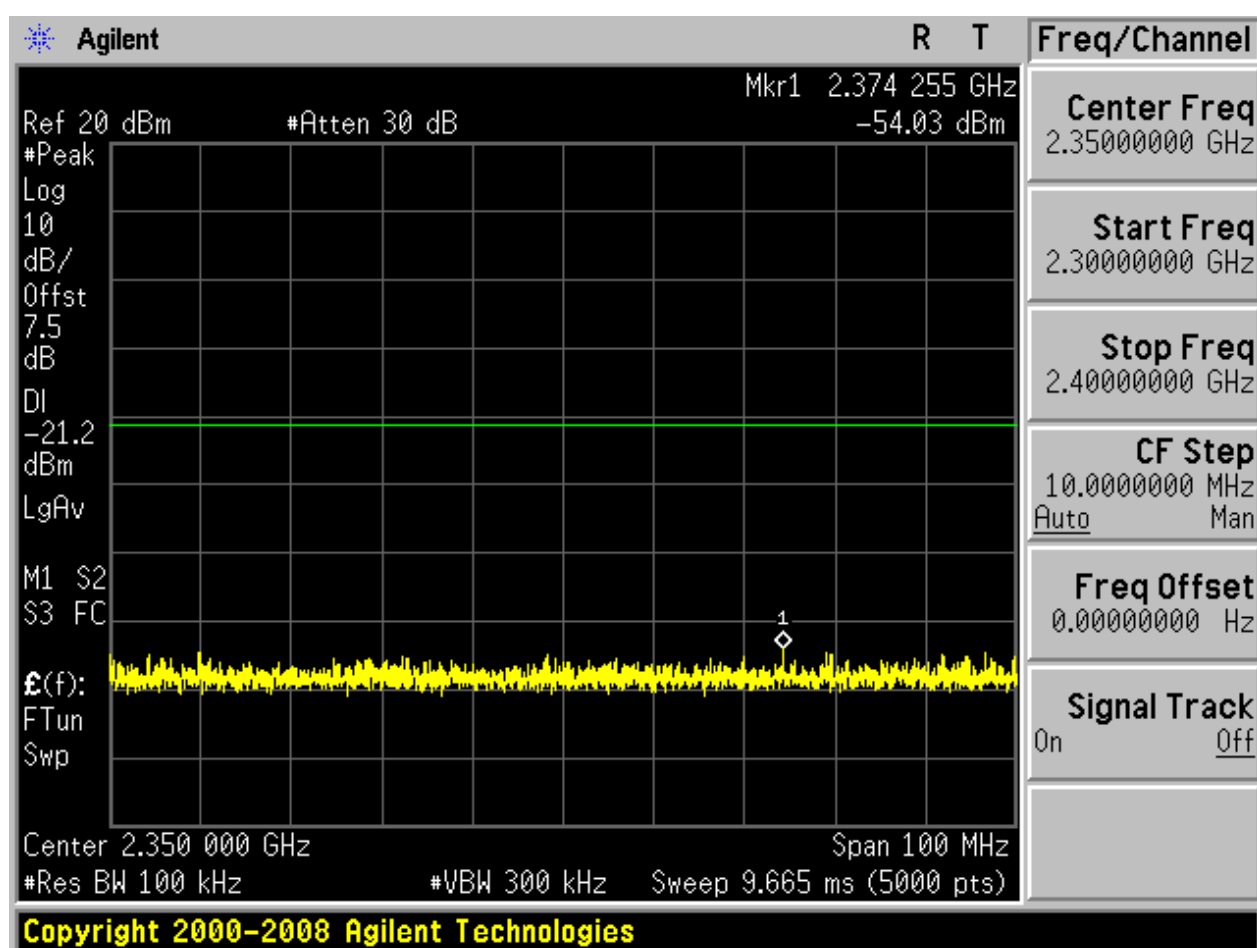


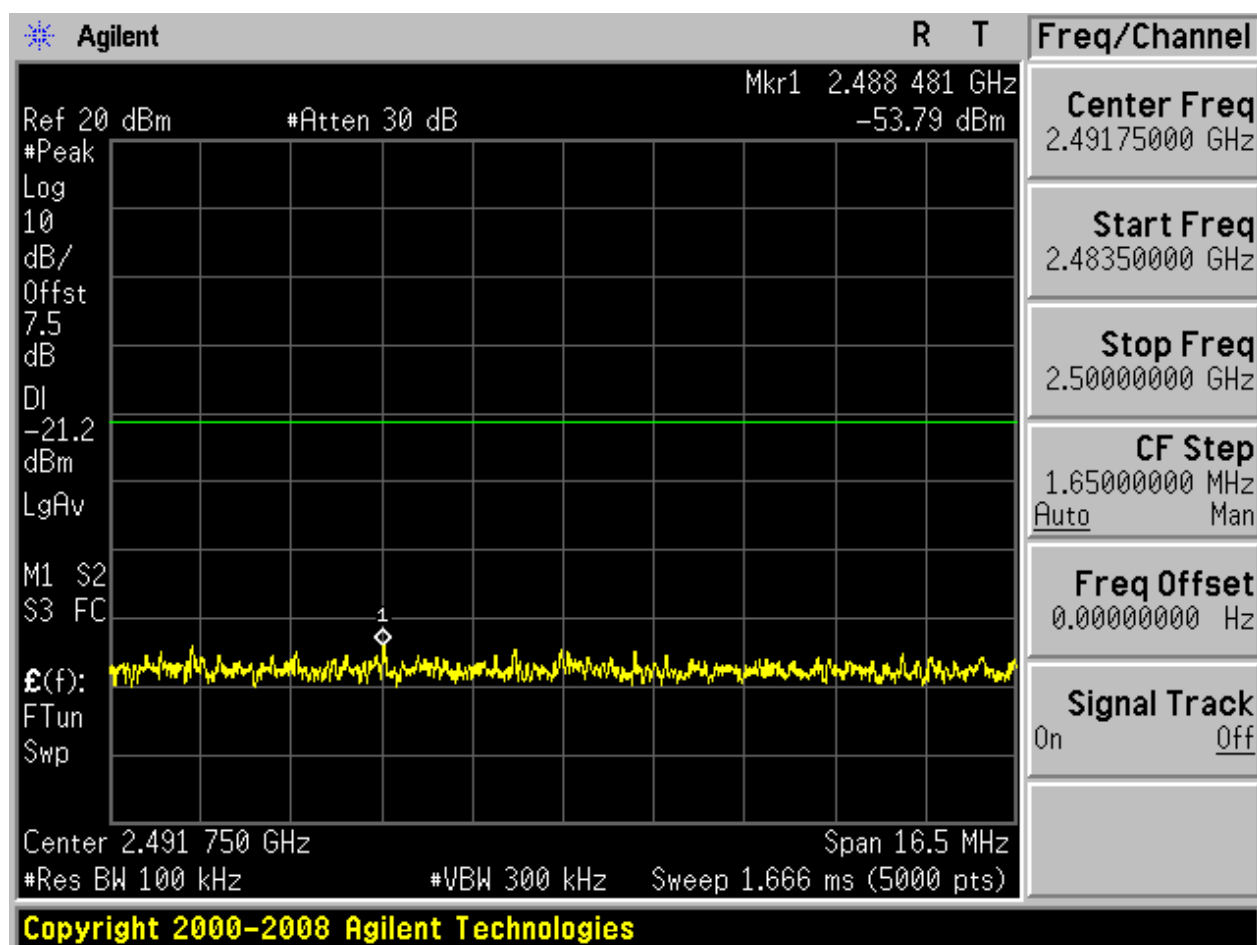
2.6.2 Puw

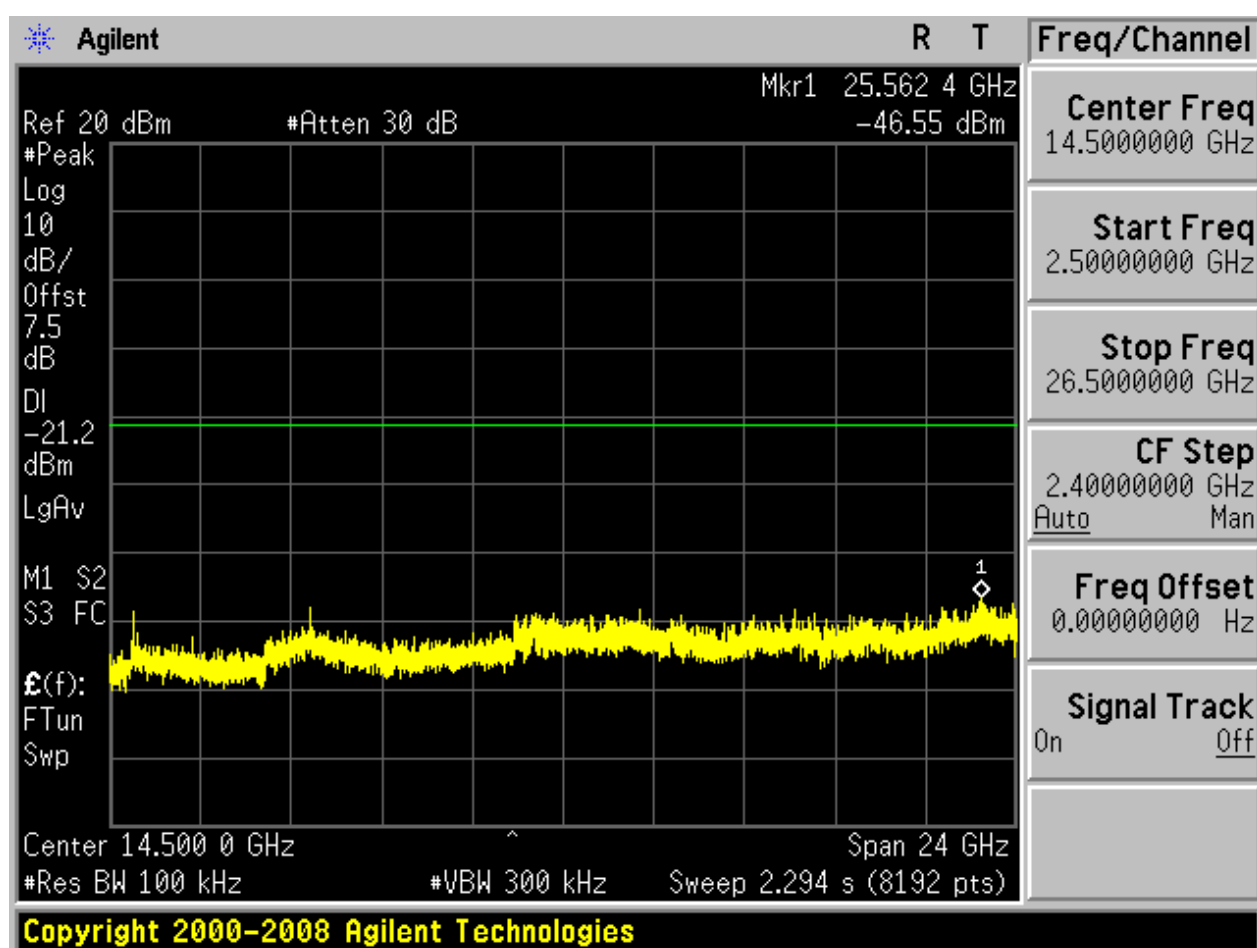








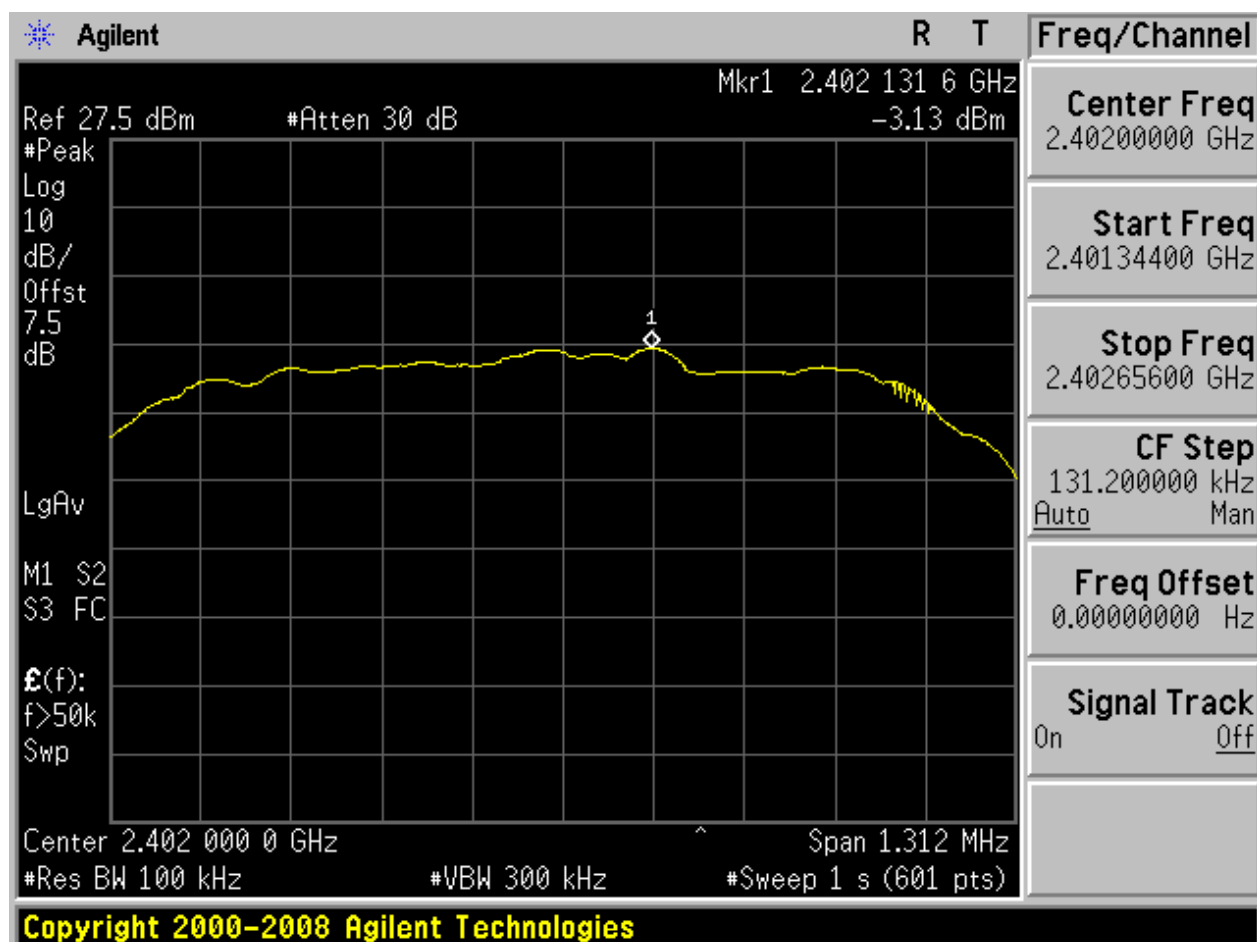




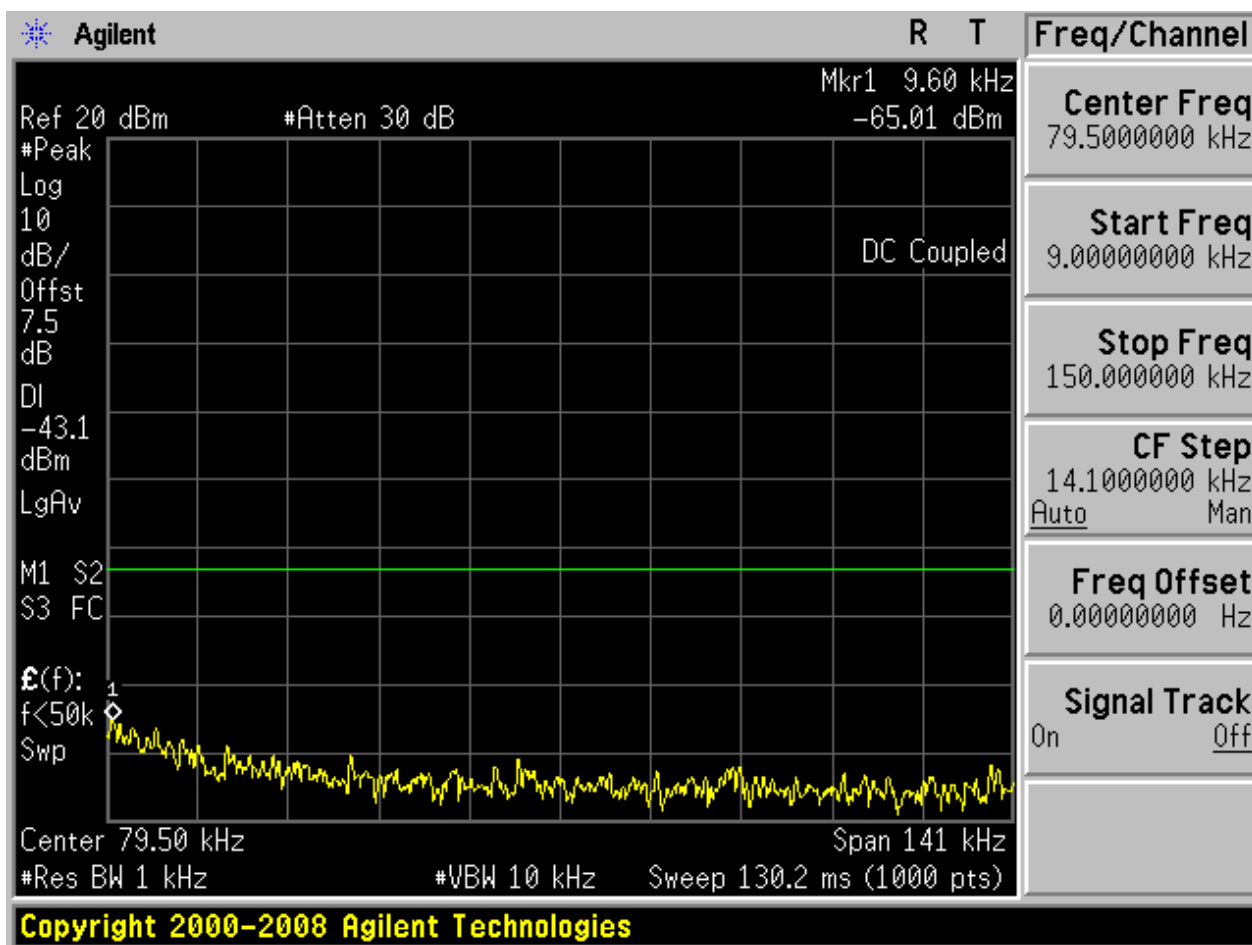


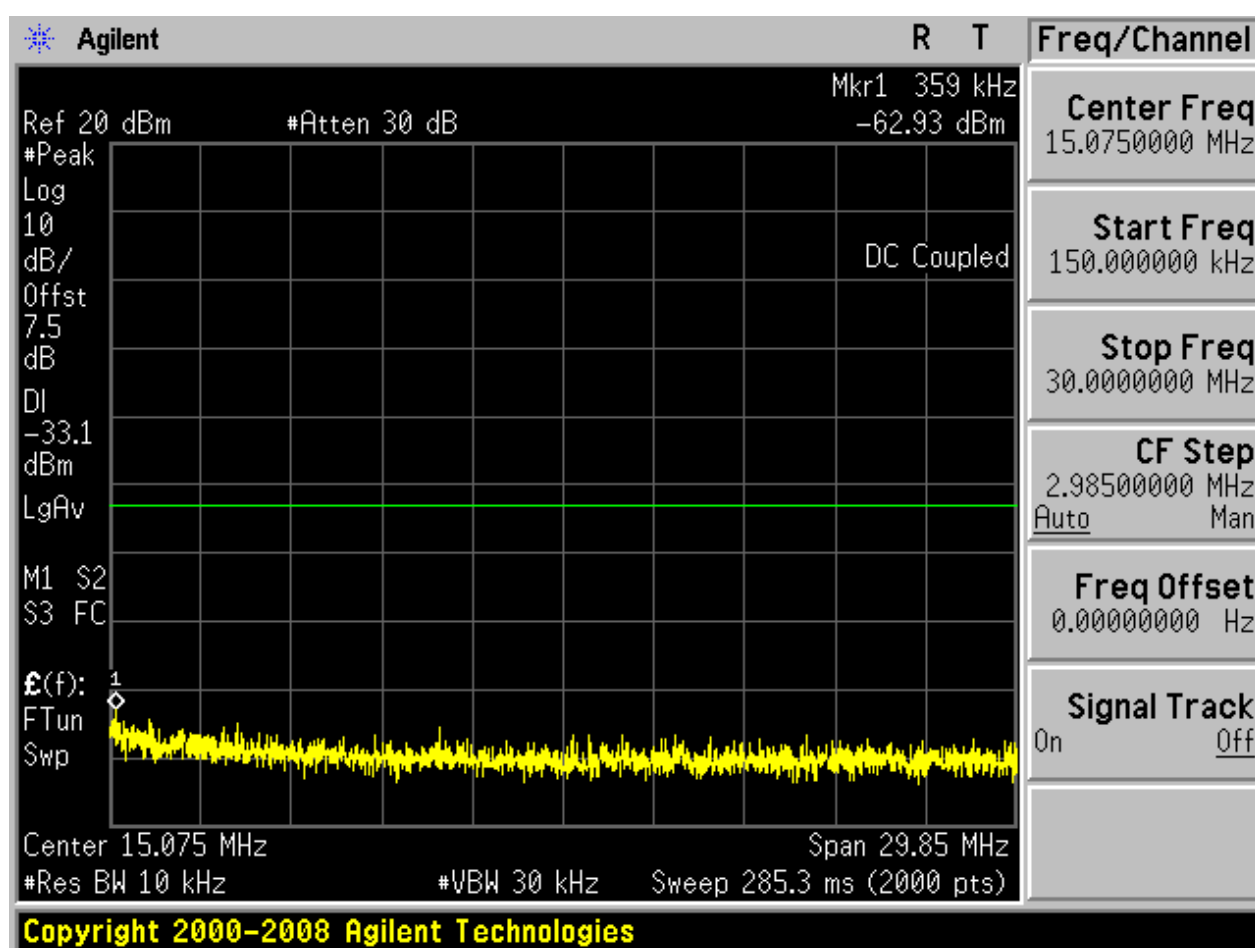
2.7 TM3_3DH5_Ch0

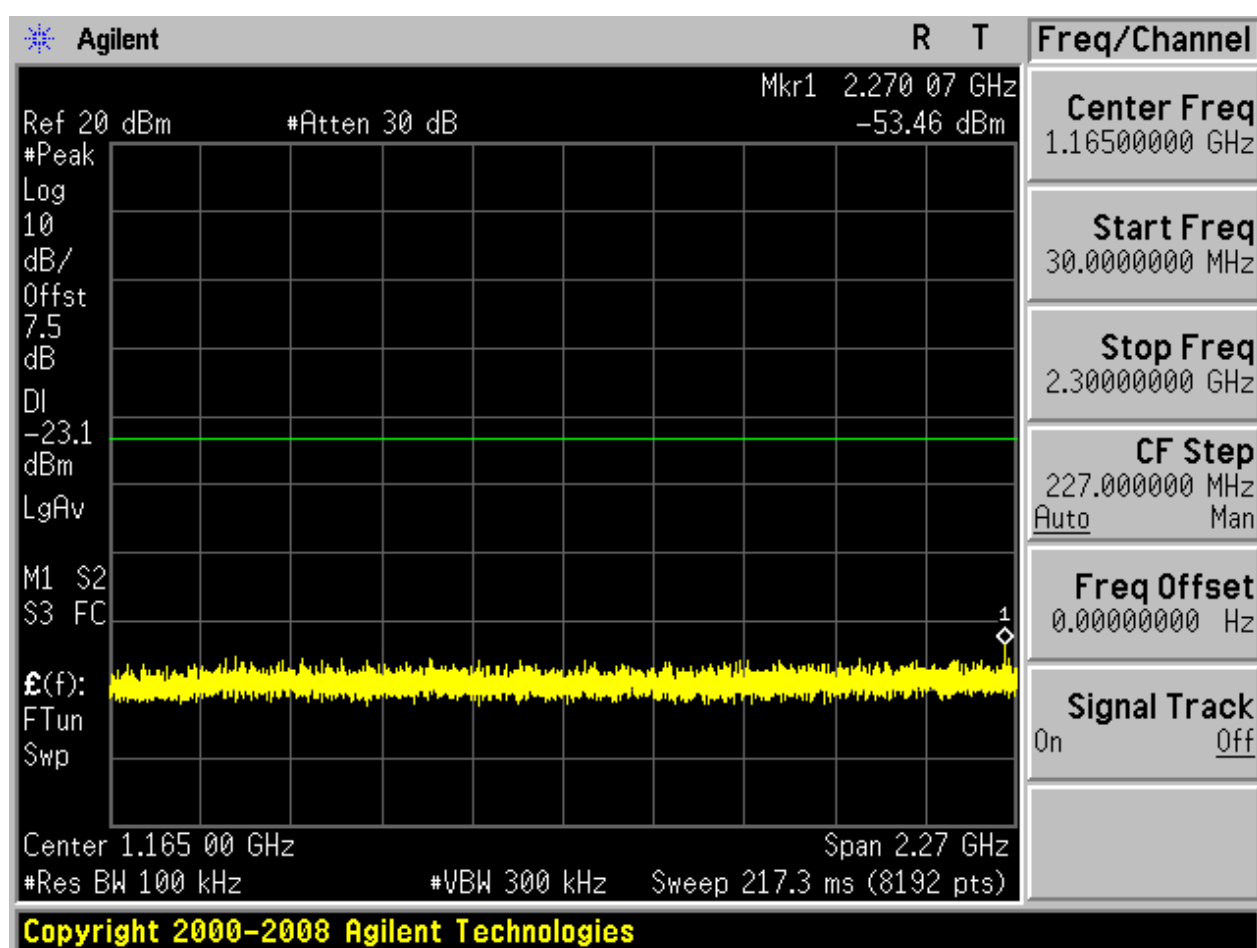
2.7.1 Pref

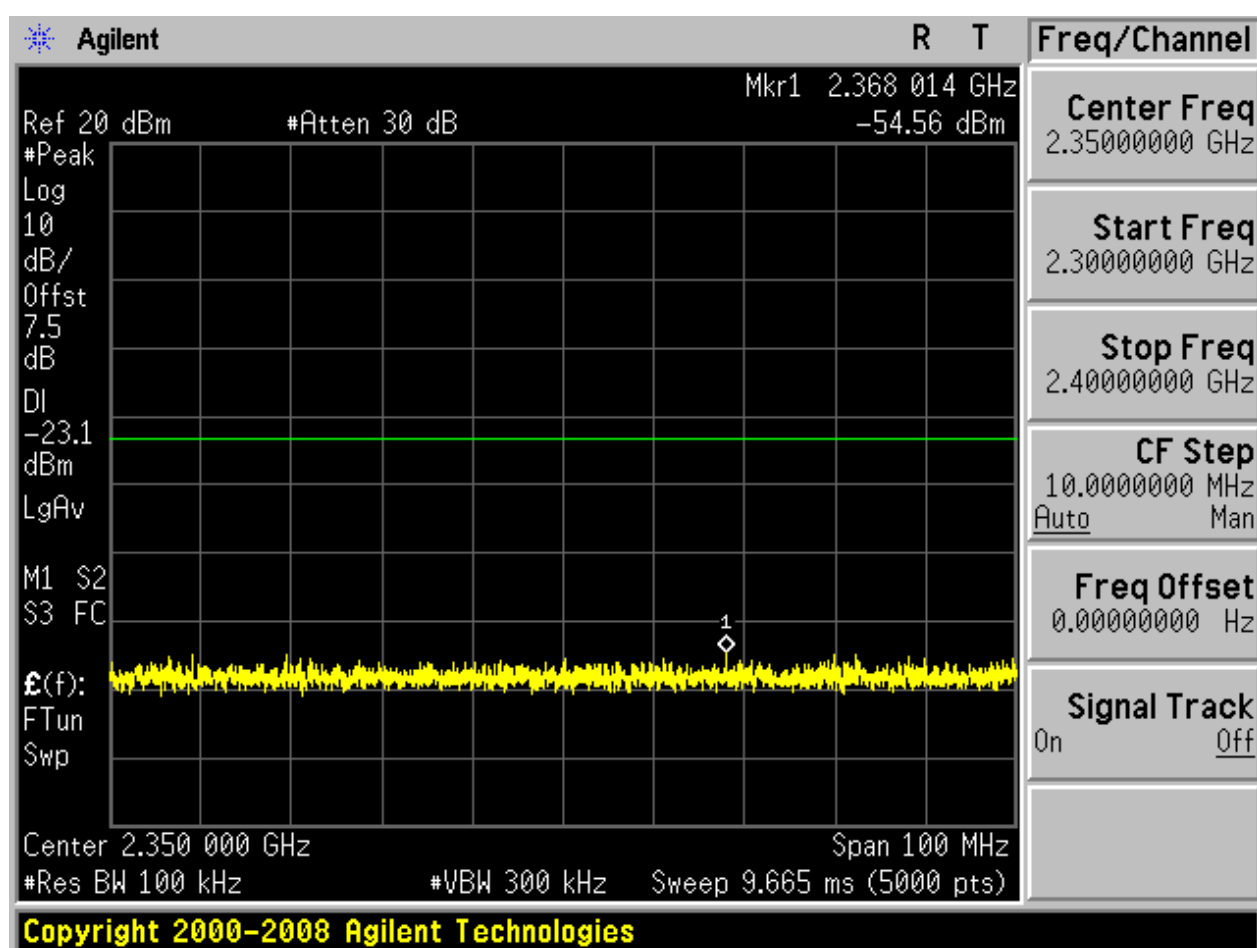


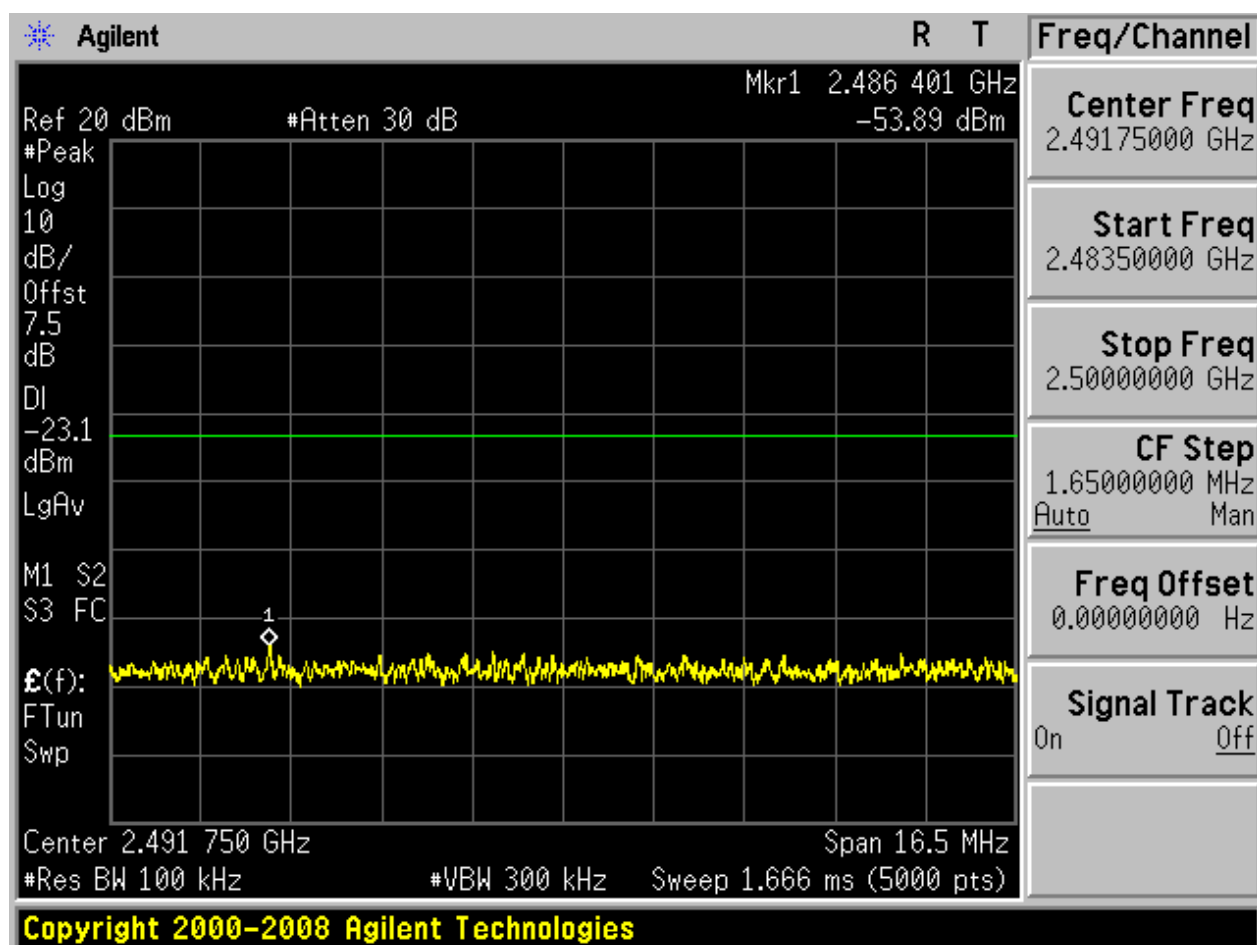
2.7.2 Puw

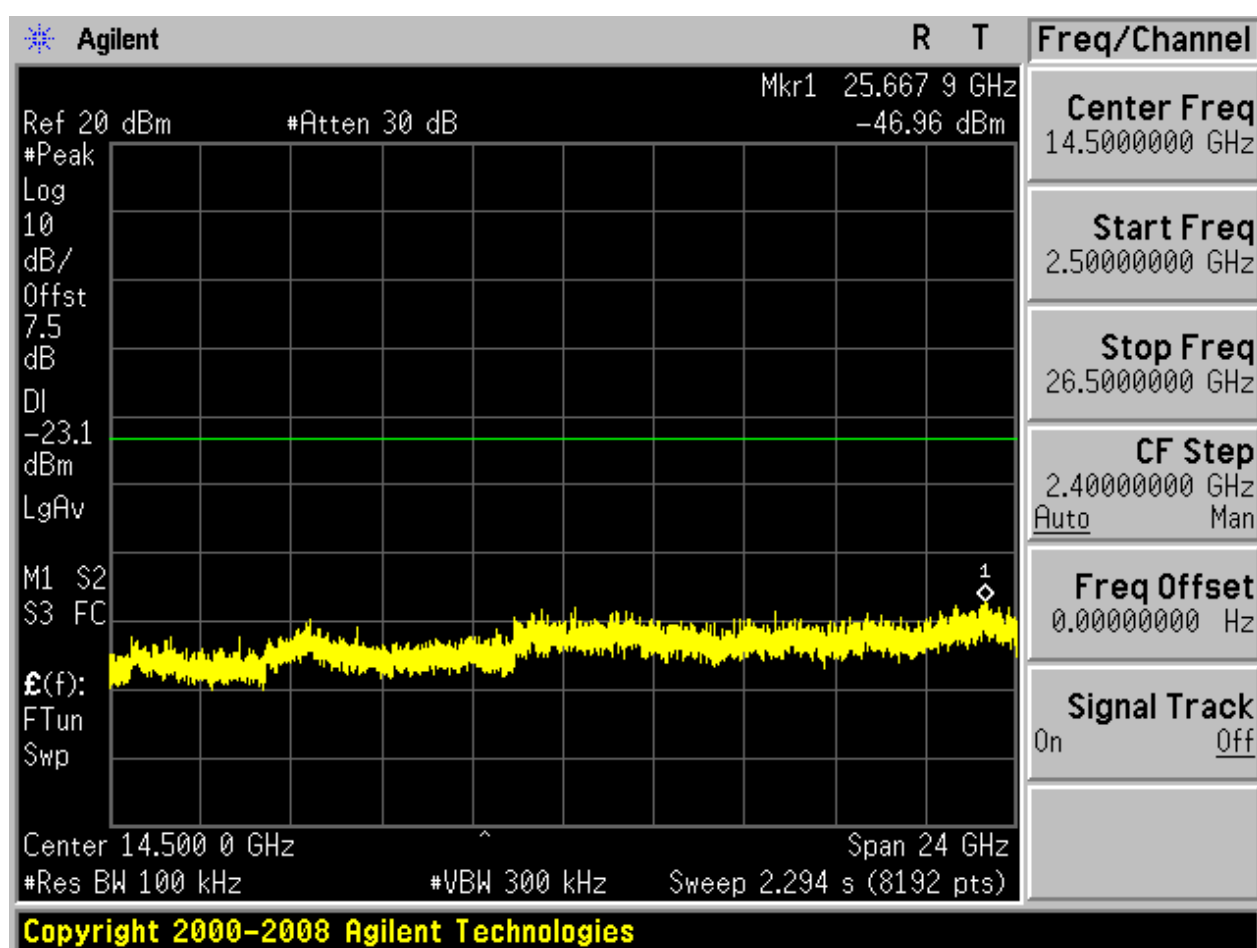








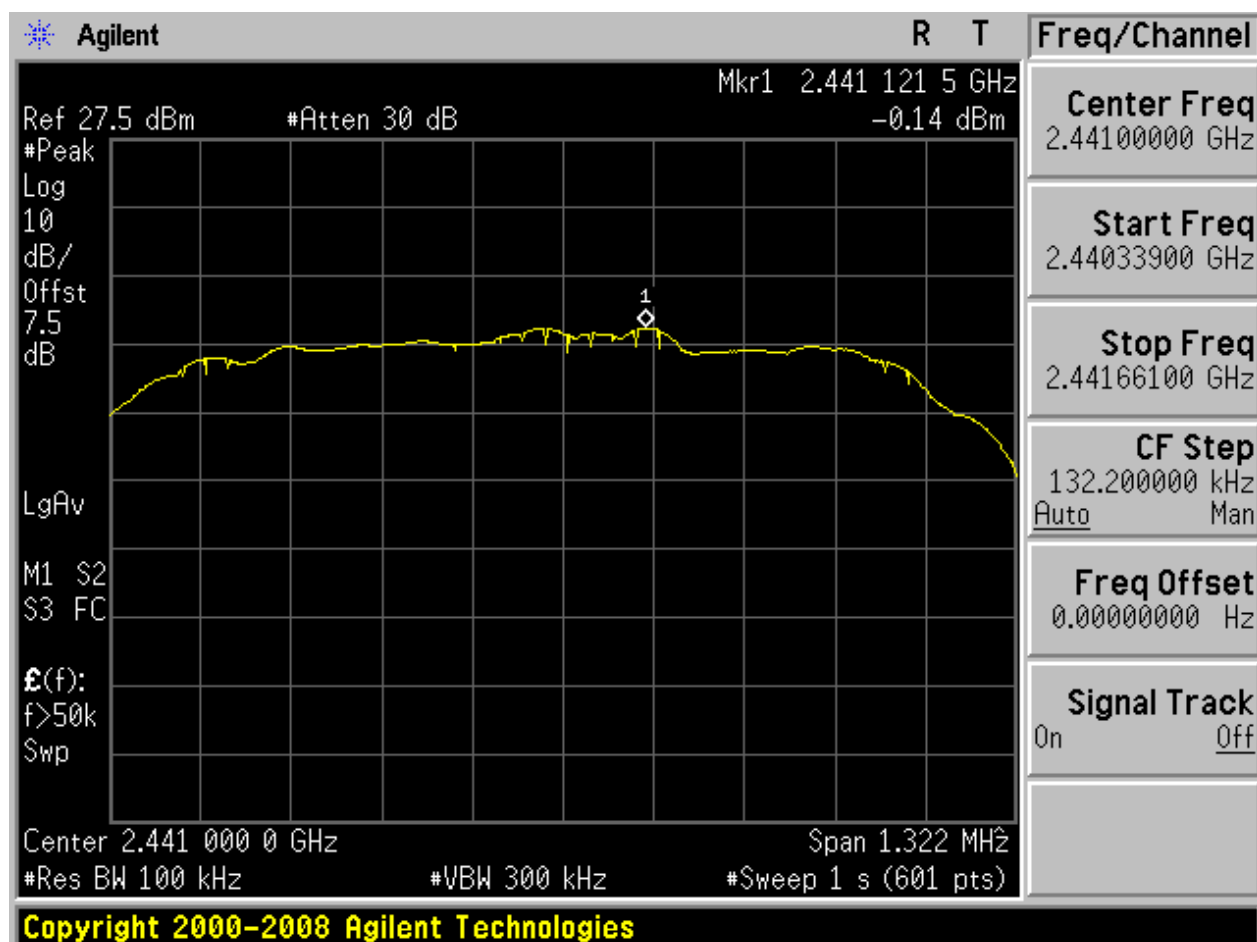




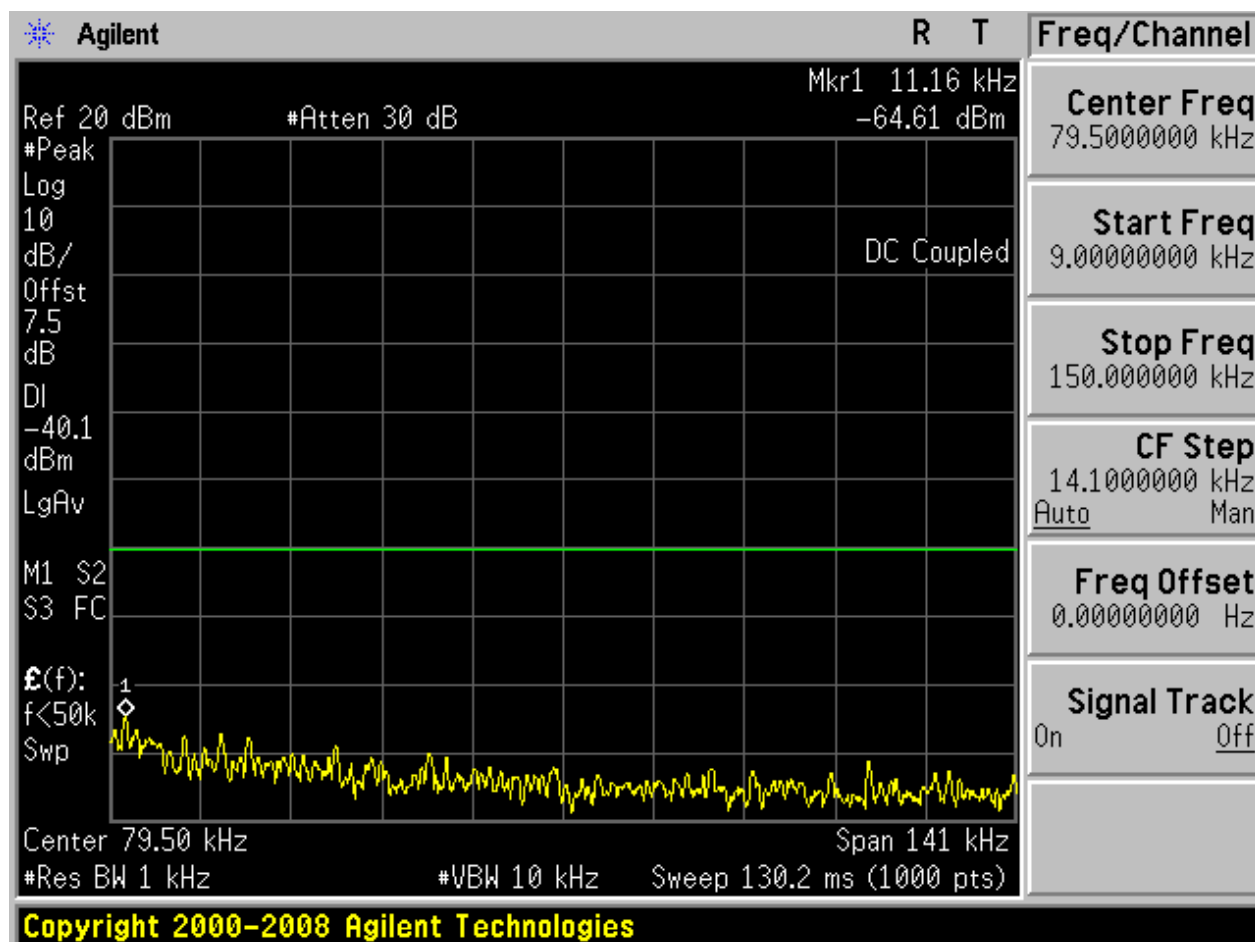


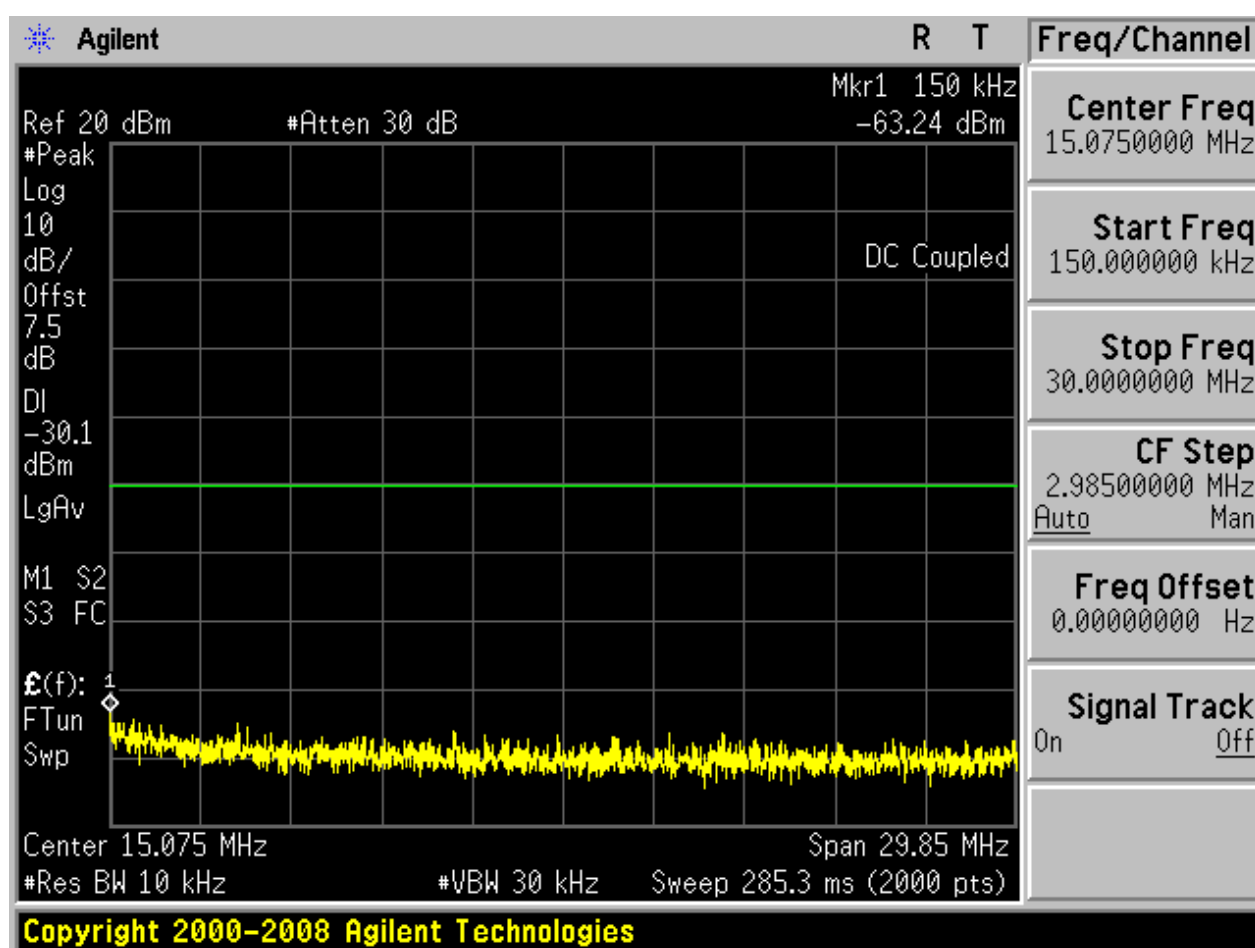
2.8 TM3_3DH5_Ch39

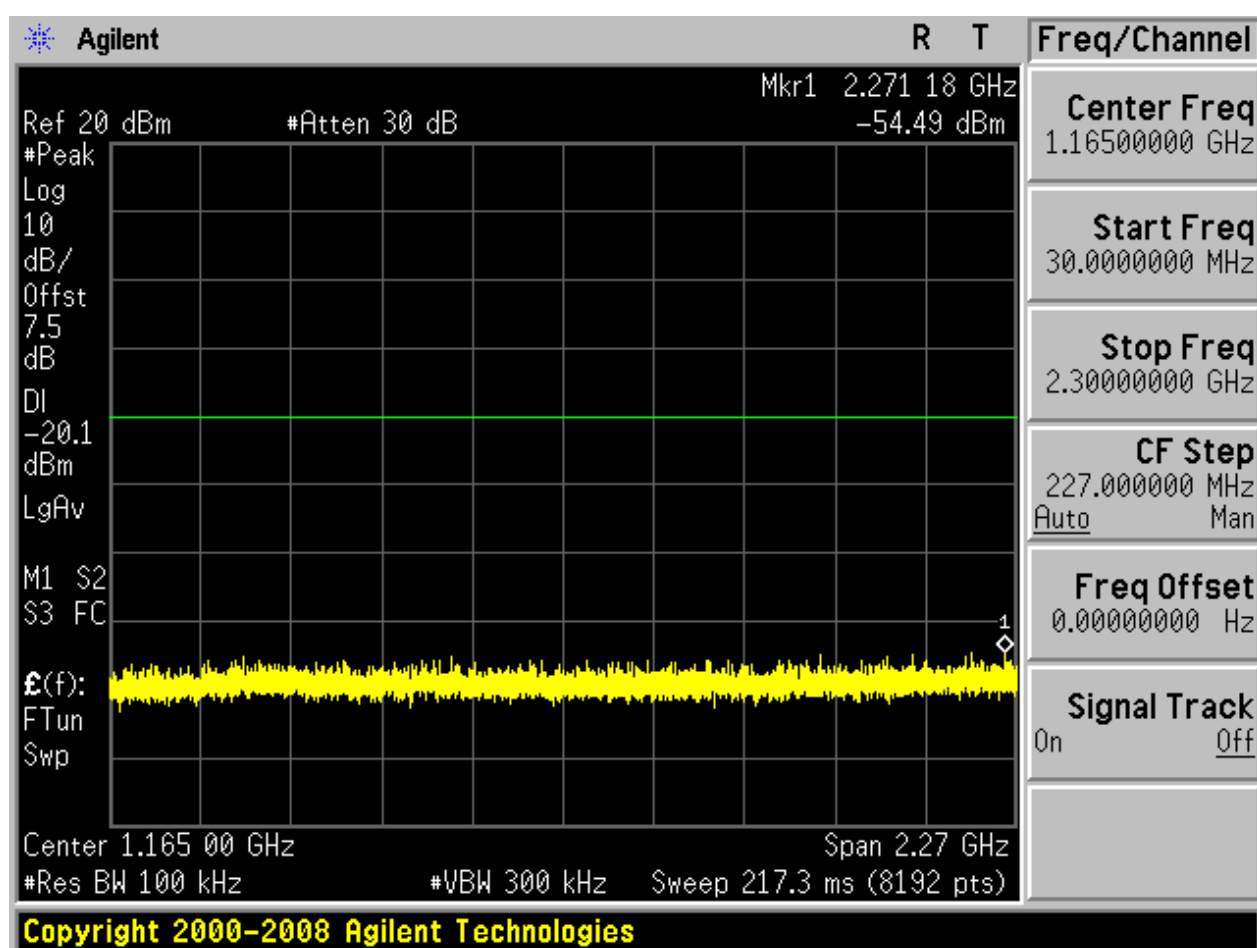
2.8.1 Pref

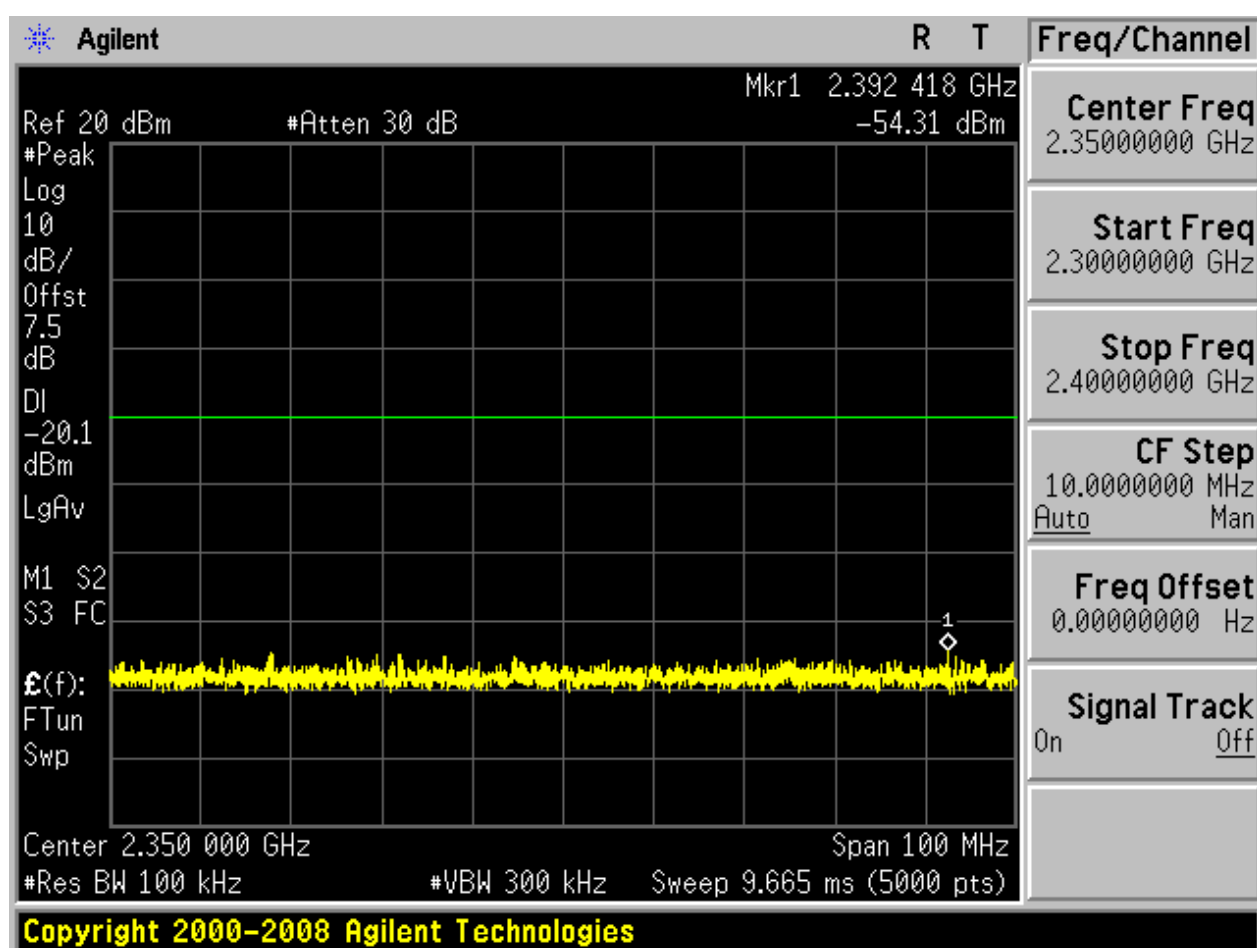


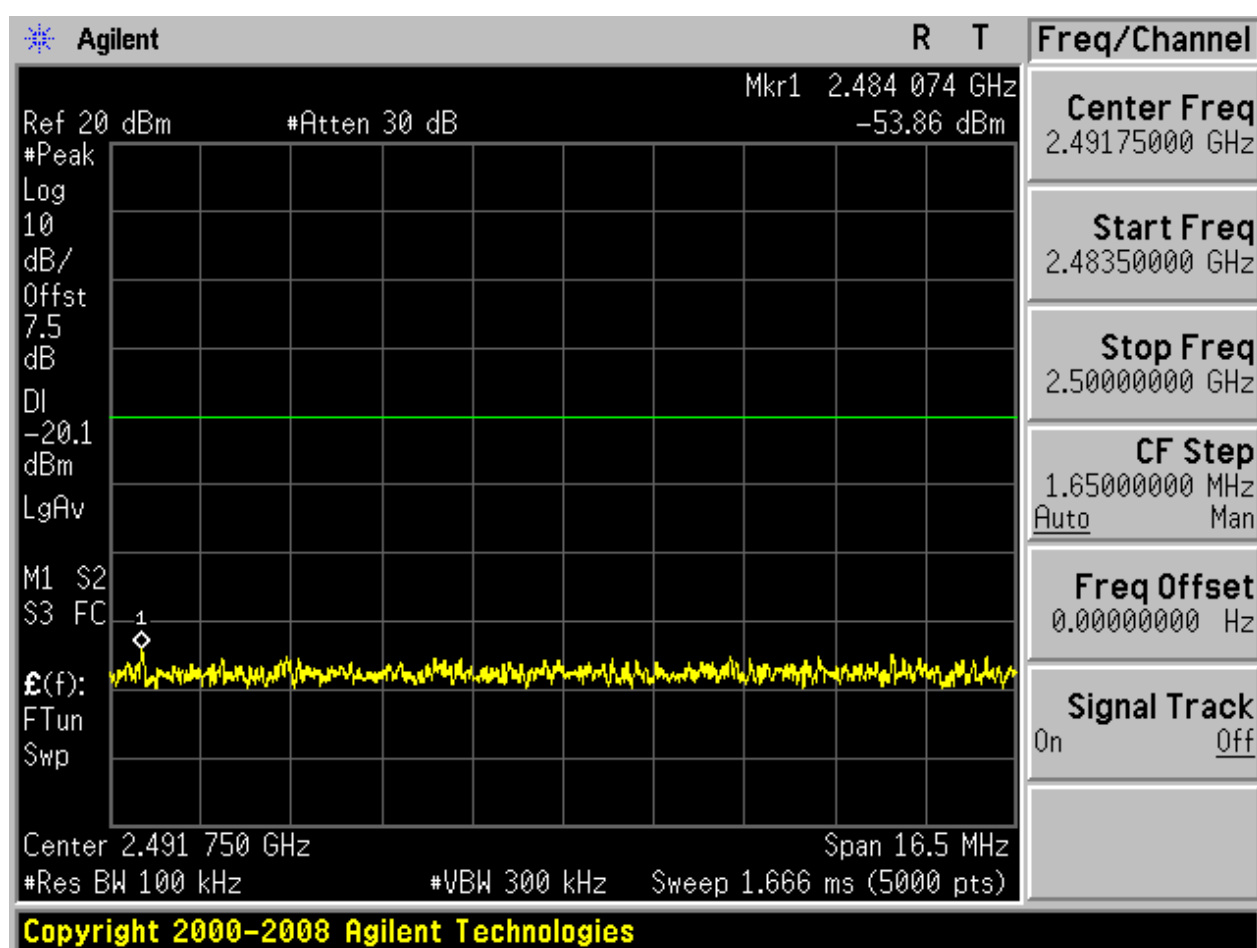
2.8.2 Puw

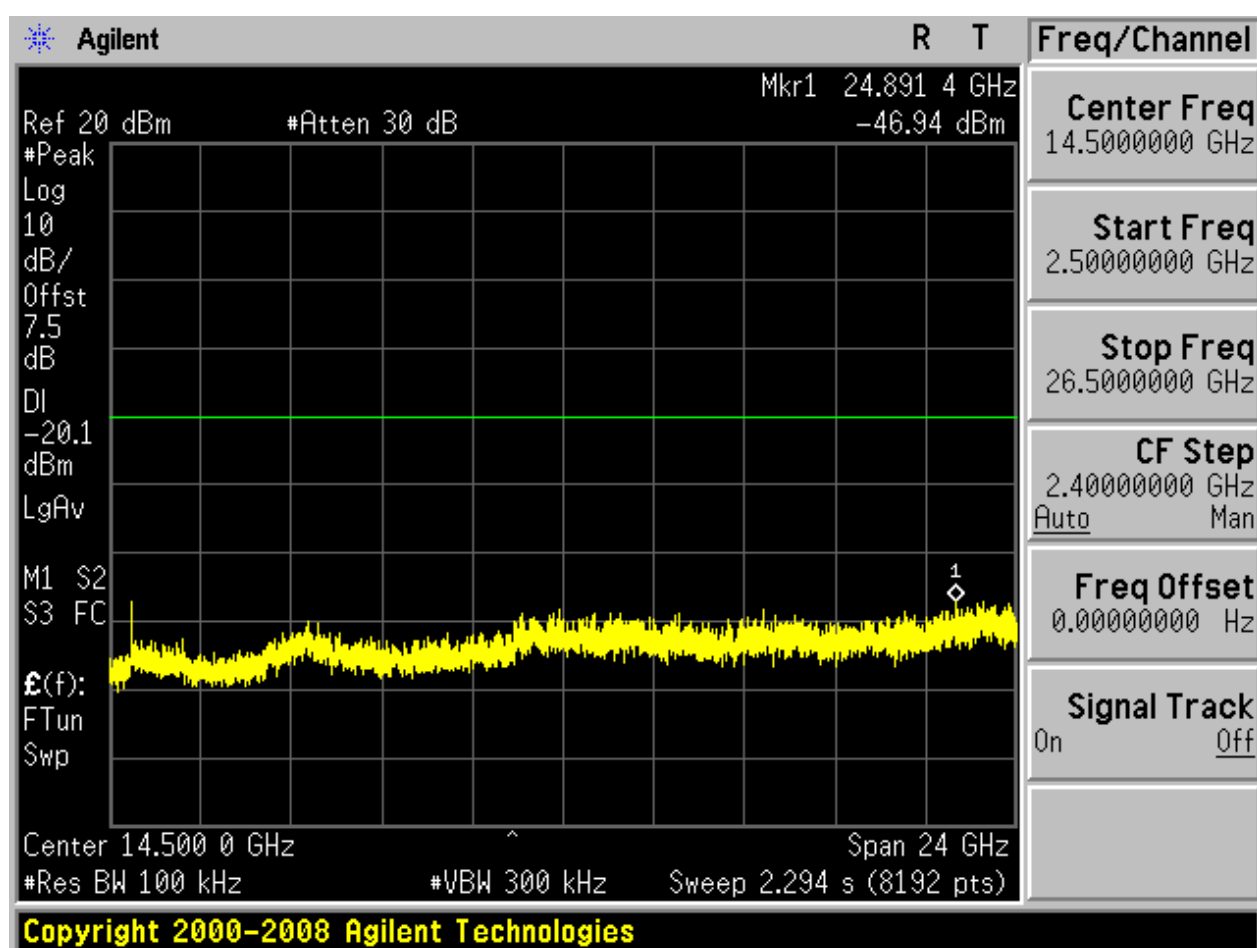








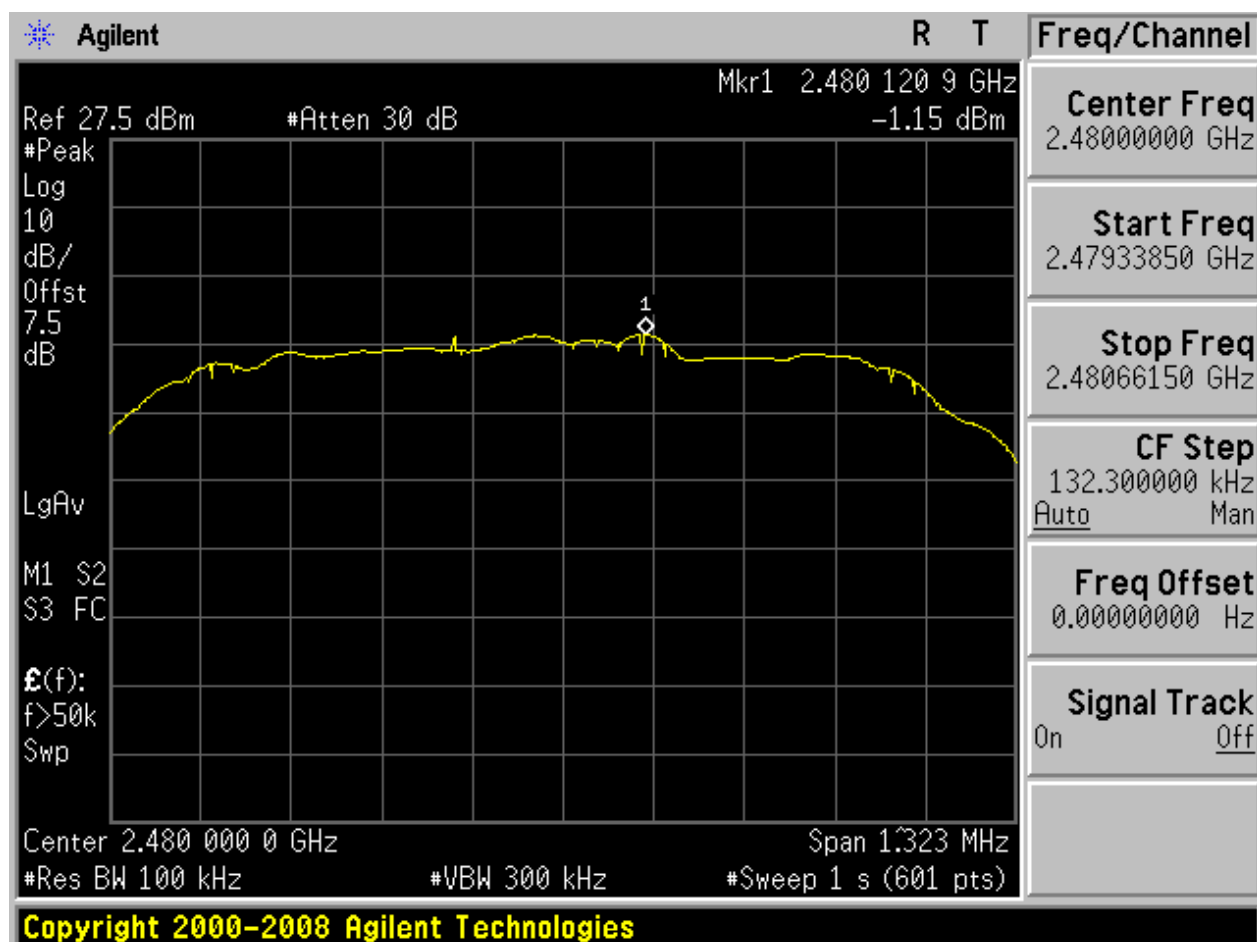




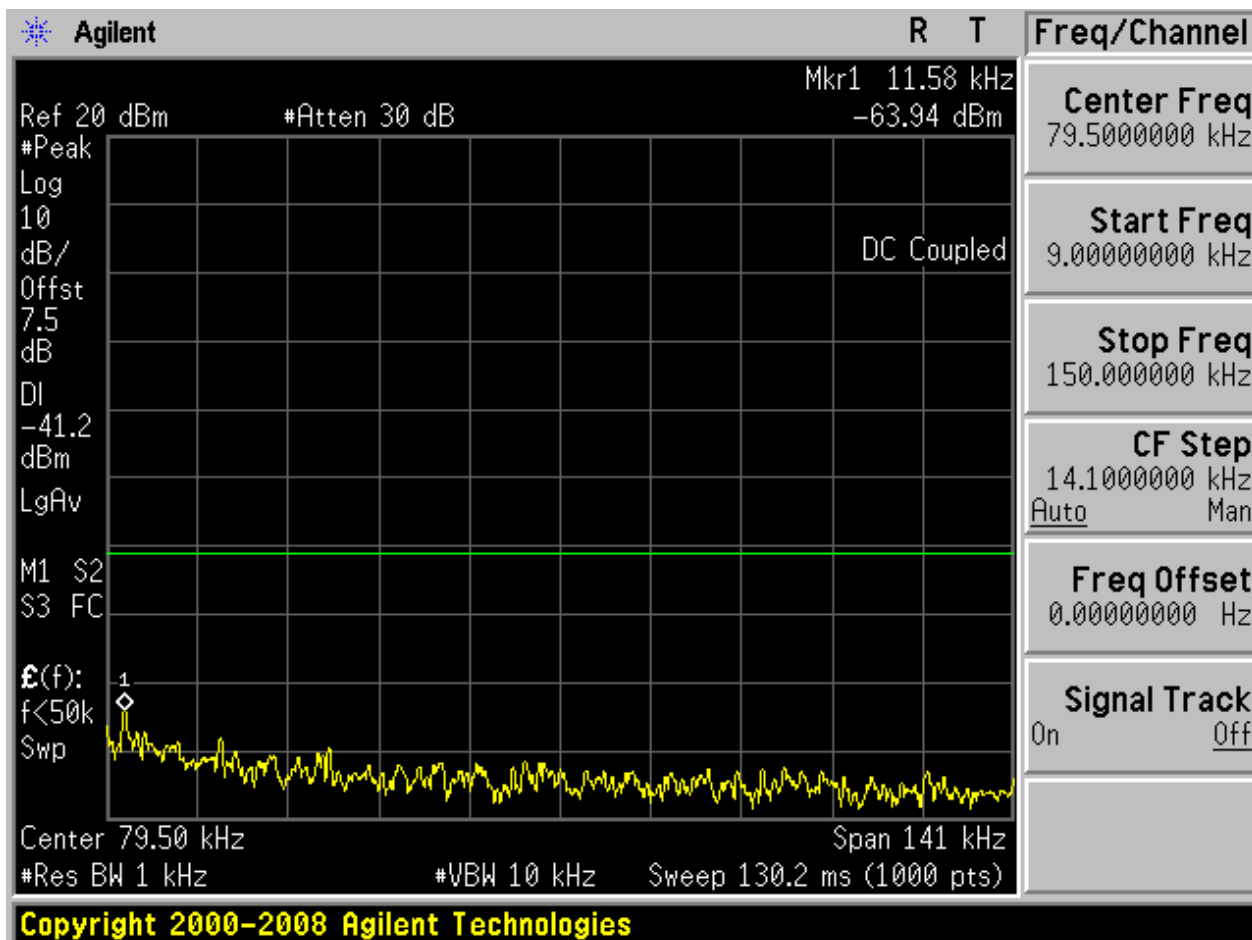


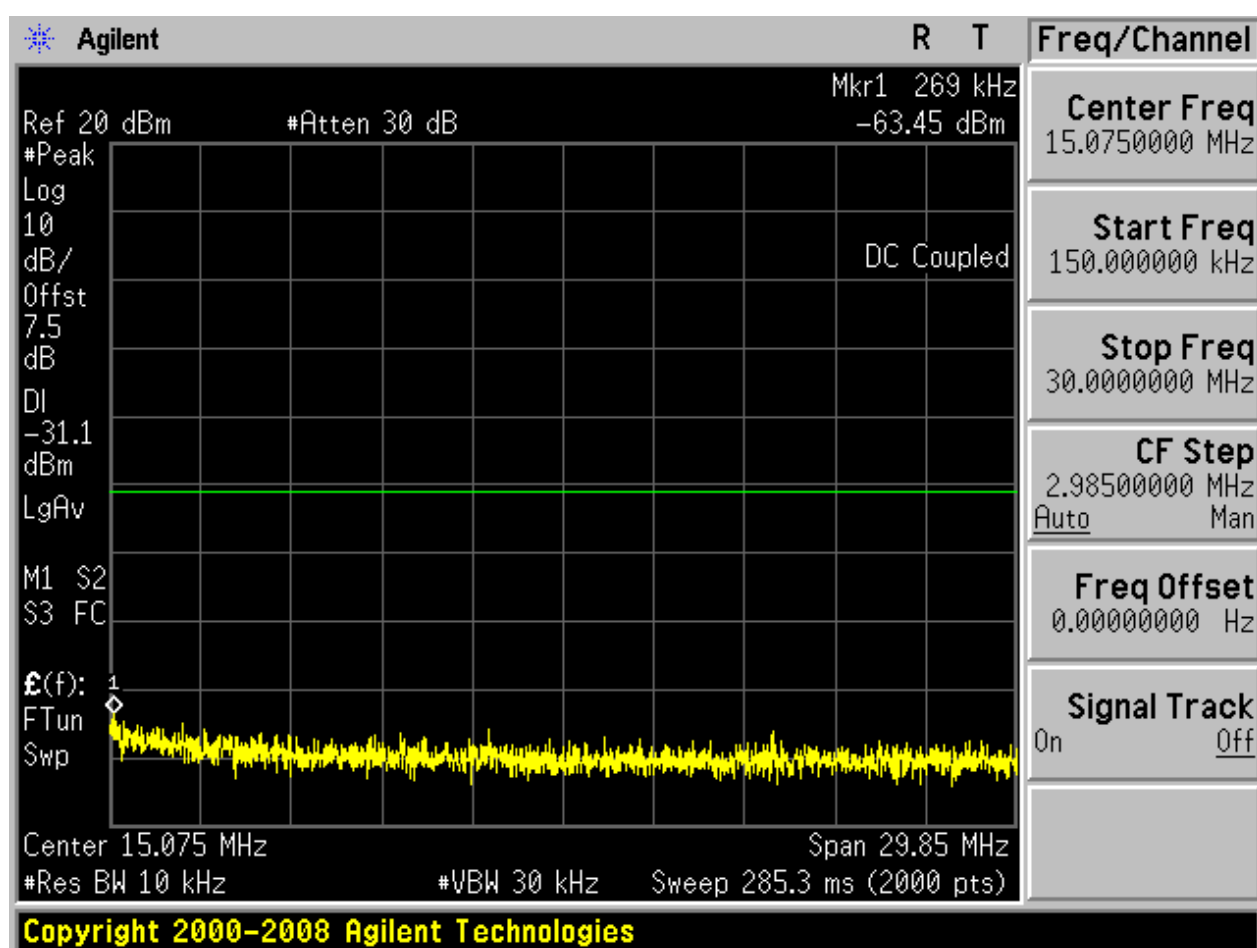
2.9 TM3_3DH5_Ch78

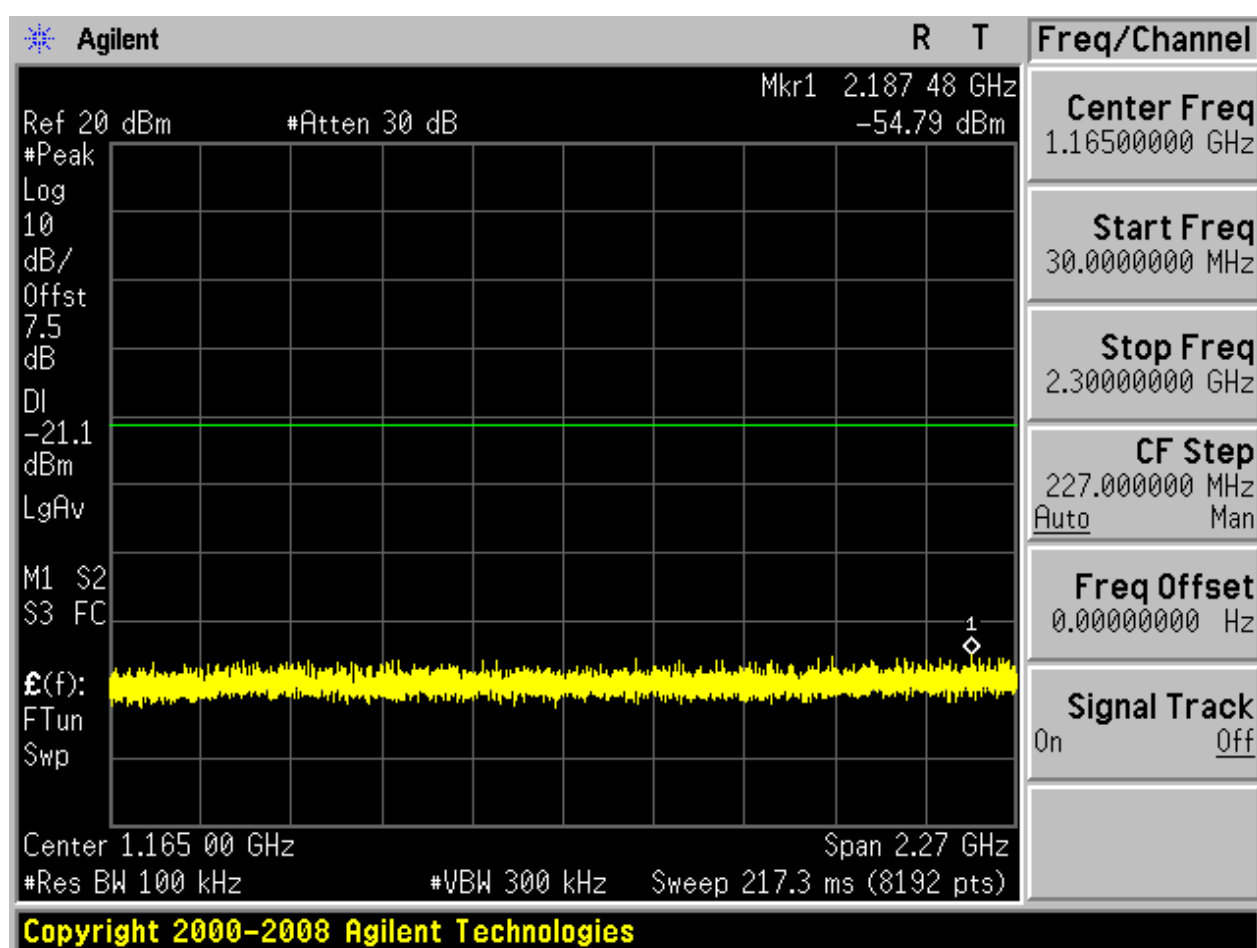
2.9.1 Pref

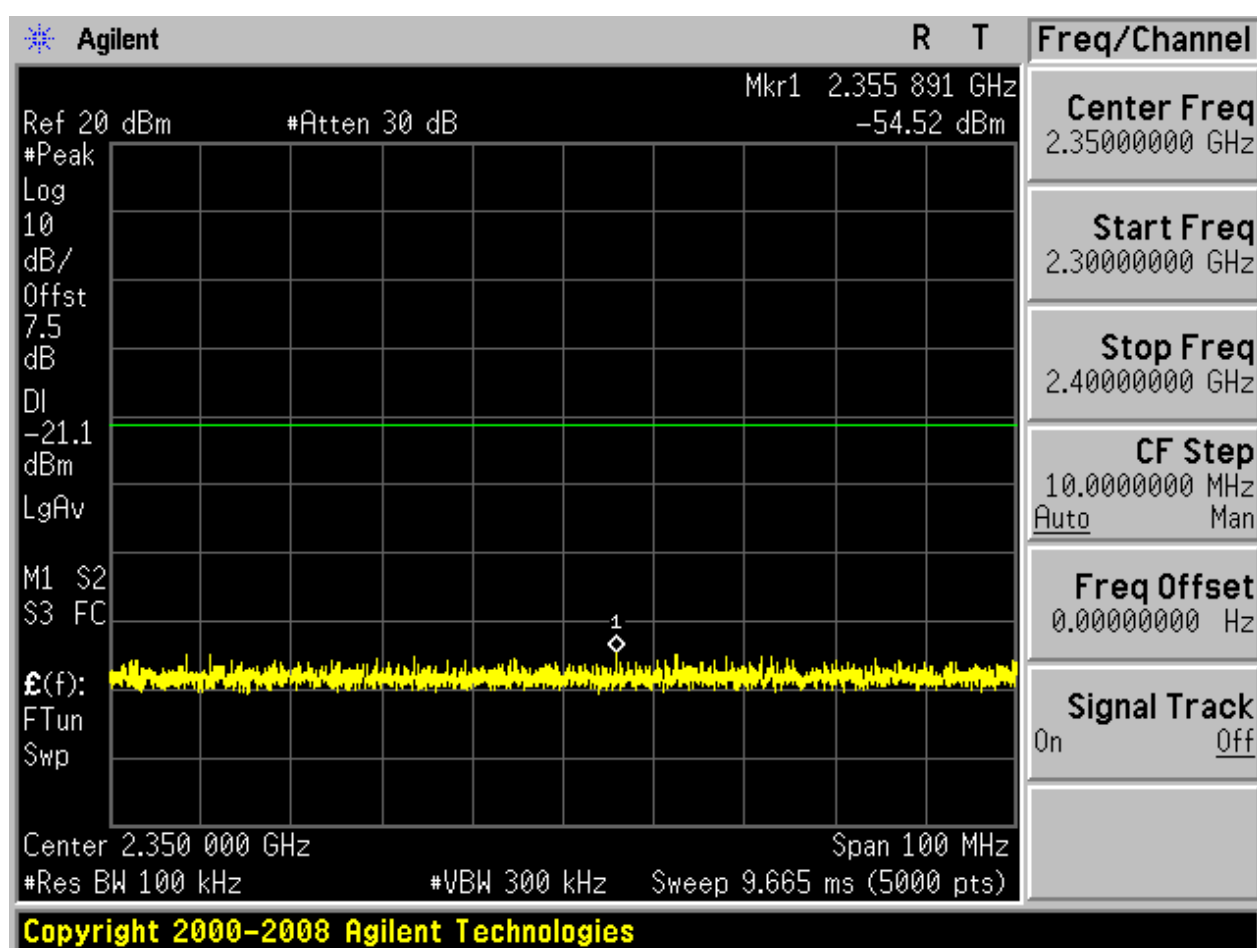


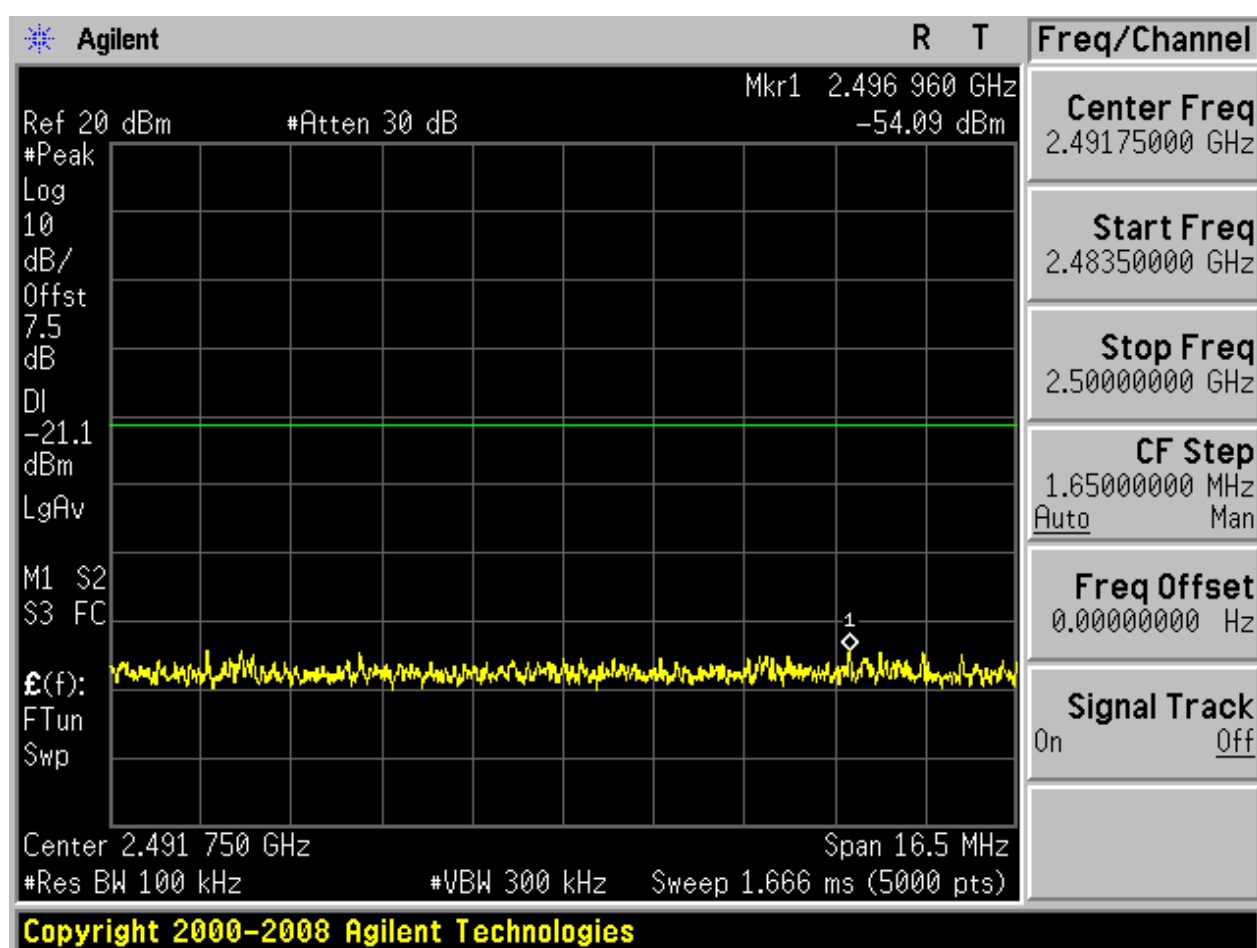
2.9.2 Puw

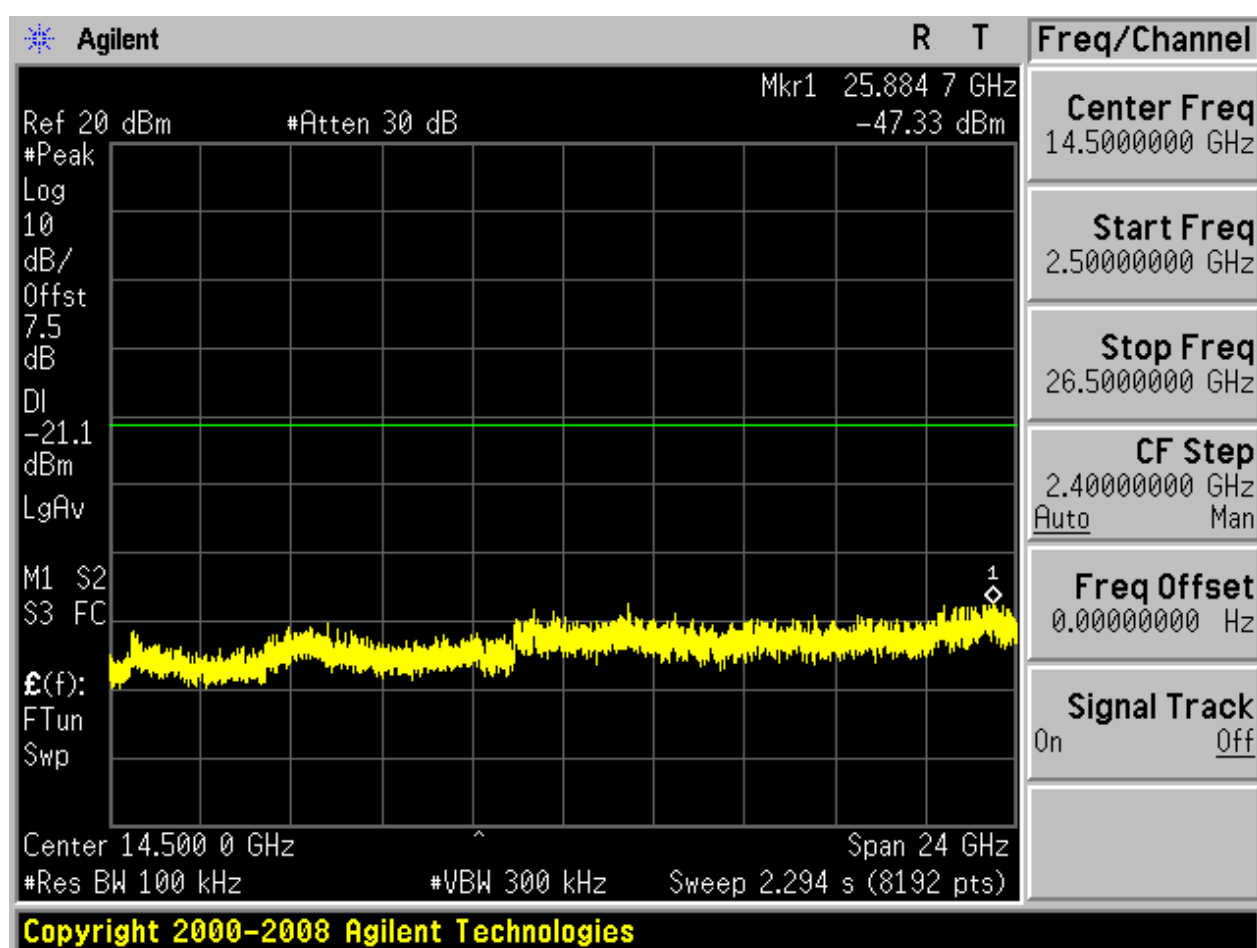








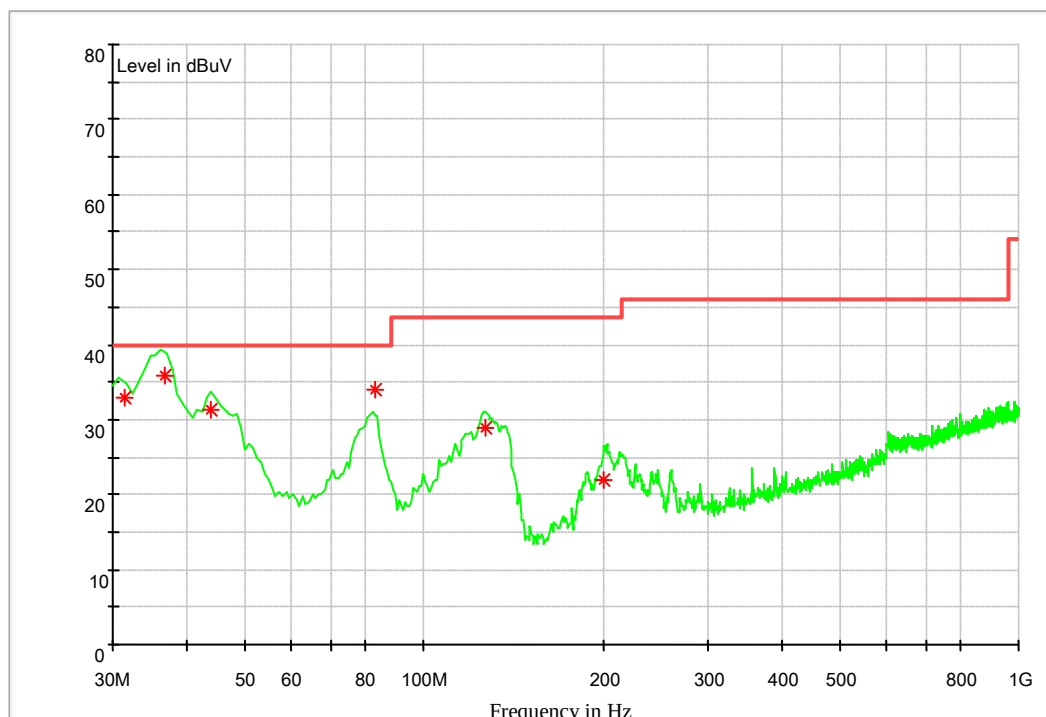




Appendix I: Radiated Emissions in the Restricted Bands

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

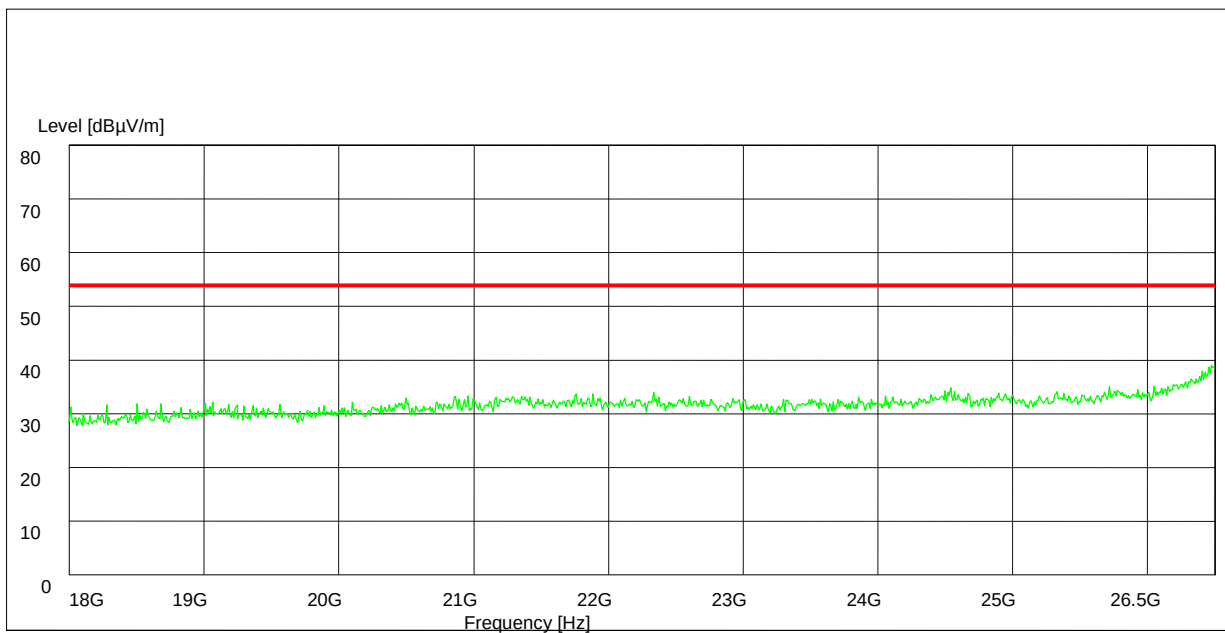
- Note 1: The test results and plot for testing range of “30 MHz to 1 GHz” showed as below is the WORST case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel.
- Note 2: The emissions in this range are mainly from the Platform Device (Notepad PC and its ancillary components).



Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Plarization
31.490694	33.0	14.0	40.0	7.0	100.0	223.0	VERTICAL
36.784000	35.7	14.8	40.0	4.3	100.0	207.0	VERTICAL
43.847040	31.2	15.3	40.0	8.8	100.0	187.0	VERTICAL
82.716160	33.9	11.0	40.0	6.1	203.0	110.0	HORIZONTAL
127.173120	29.0	11.1	43.5	14.5	100.0	26.0	VERTICAL
201.140480	22.1	12.9	43.5	21.4	100.0	329.0	VERTICAL

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

Note: No peak found in pre- test.

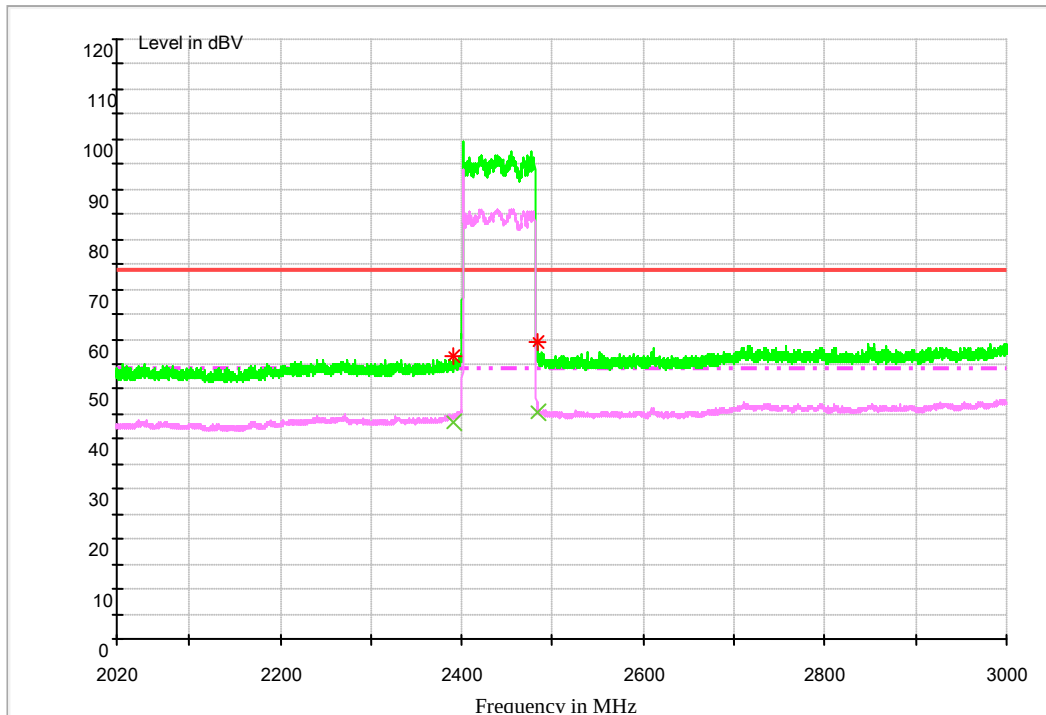


Part 3: Testing Range of “2.3GHz to 2.5GHz”

- 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 dB μ V/m) and Average Limit (54 dB μ V/m).
- Note 3: The peak spike exceeds the limit line is EUT's operating frequency.

3 Test Mode:

3.1 Channel 0



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

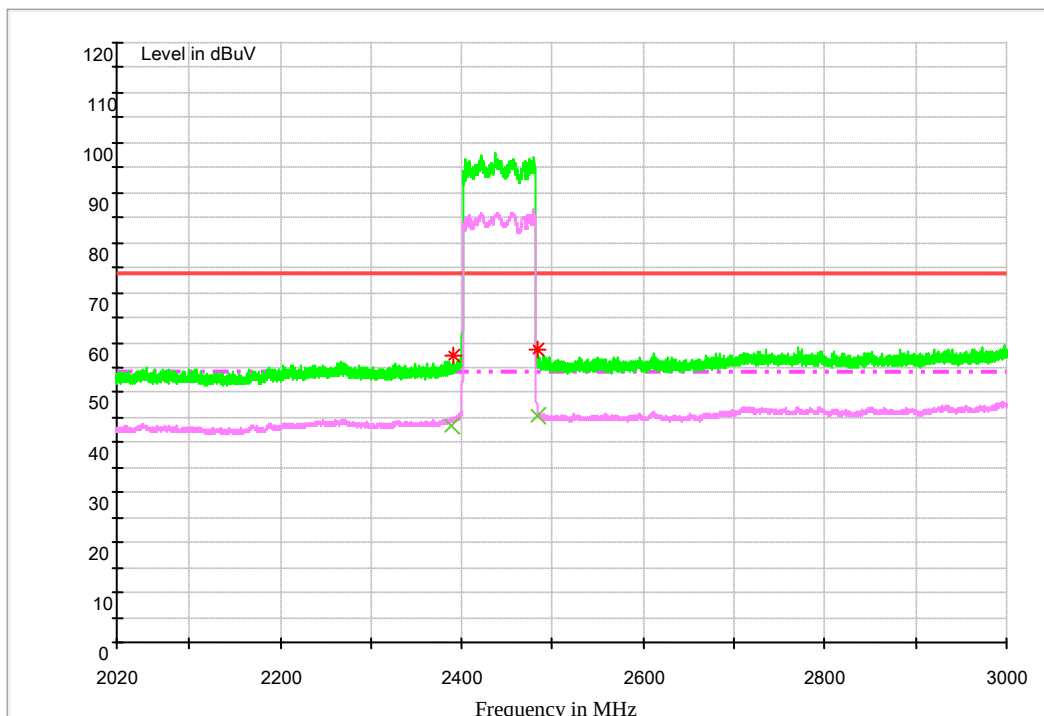
MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	56.5	38.3	74.0	17.5	100.0	145.0	HORIZONTAL
2483.500000	59.3	40.4	74.0	14.7	100.0	269.0	VERTICAL

MEASUREMENT RESULT: AVDetector

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	43.2	38.3	54.0	10.8	100.0	206.0	VERTICAL
2483.500000	45.2	40.8	54.0	8.8	100.0	153.0	HORIZONTAL

3.2 Channel 78



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

MEASUREMENT RESULT: PK Detector

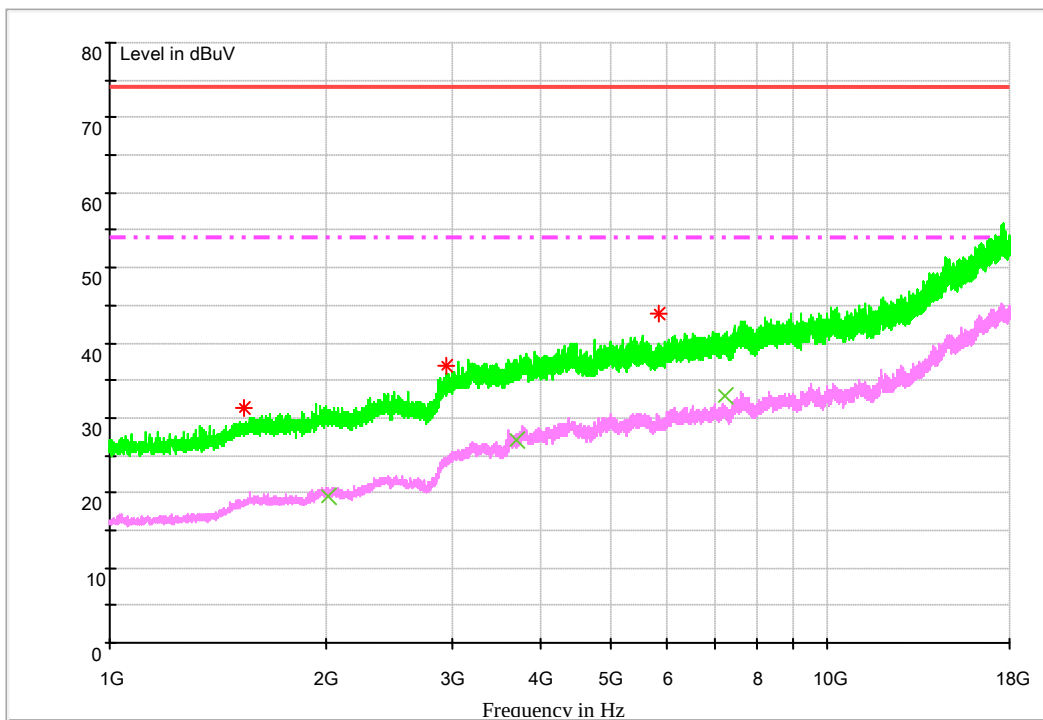
Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	57.4	38.3	74.0	16.6	150.0	109.0	VERTICAL
2483.500000	58.6	40.6	74.0	15.4	136.0	92.0	VERTICAL

MEASUREMENT RESULT: AVDetector

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	43.2	38.3	54.0	10.8	100.0	154.0	VERTICAL
2483.500000	45.2	40.7	54.0	8.8	119.0	38.0	HORIZONTAL

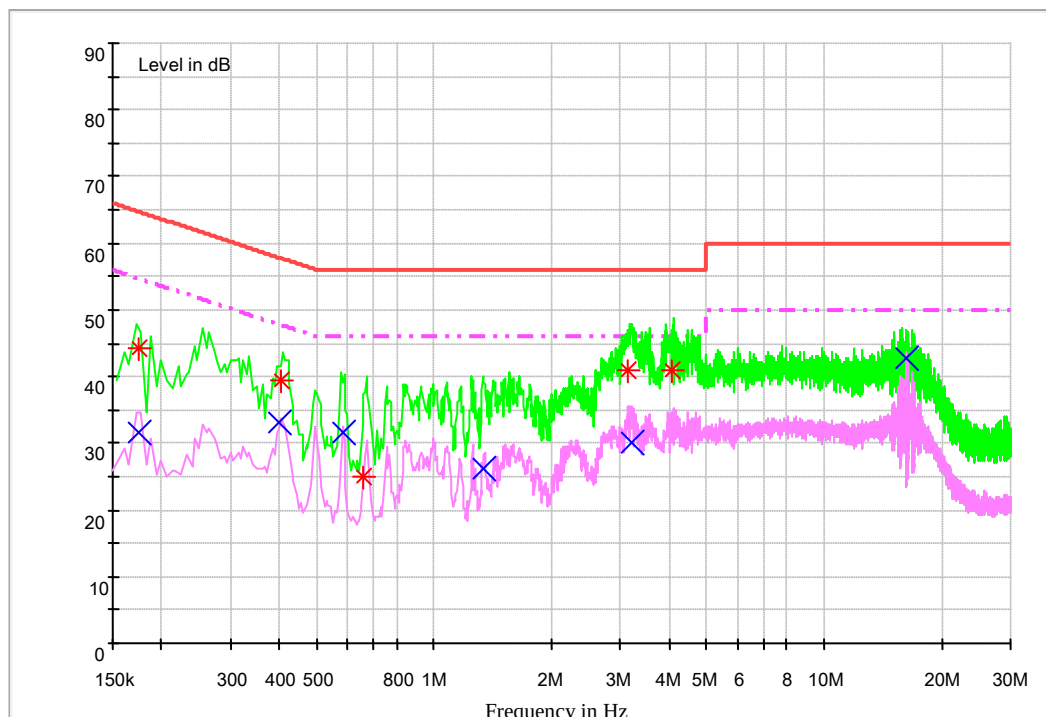
Part 4: Testing Range of “1 GHz to 18 GHz”

- 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 J: AC Power Line Conducted Emissions

Channel 39



MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.174079	575.0	9.7	64.8	16.2	N	FLO
0.174870	44.1	9.7	64.7	20.6	N	FLO
0.407048	39.4	9.7	57.7	18.3	N	FLO
0.656024	25.0	9.7	56.0	31.0	N	FLO
3.150176	40.8	9.7	56.0	15.2	N	FLO
4.052156	40.9	9.8	56.0	15.1	L1	FLO

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.174574	31.7	9.7	54.7	23.0	L1	FLO
0.402011	33.1	9.7	47.8	14.7	L1	FLO
0.582218	31.5	9.7	46.0	14.5	N	FLO
1.341454	26.0	9.7	46.0	20.0	N	FLO
3.204488	30.1	9.7	46.0	15.9	N	FLO
16.271149	42.8	10.0	50.0	7.2	L1	FLO

END