



7.4 PEAK POWER SPECTRAL DENSITY

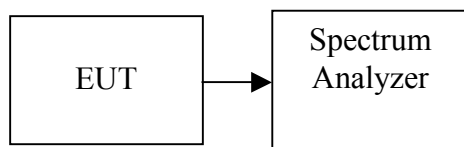
LIMIT

According to §15.407(a),

- (1) For the band 5.15-5.25 GHz, the peak power spectral density shall not exceed 4dBm in any 1MHz band.
- (2) For the band 5.25-5.35 GHz, the peak power spectral density shall not exceed 11dBm in any 1MHz band.

If transmitting antennas of directional gain greater than 6dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Test Configuration



TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set the spectrum analyzer as RBW = 1MHz, VBW = 3MHz, Span = Sweep= AUTO
3. Record the max. reading.
4. Repeat the above procedure until the measurements for all frequencies are completed

TEST RESULTS

No non-compliance noted

**Test Data****Test mode: IEEE 802.11a mode / 5180 ~ 5240MHz**

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin	Result
Low	5180	2.369	4.00	-1.631	PASS
Mid	5220	3.374	4.00	-0.626	PASS
High	5240	3.549	4.00	-0.451	PASS

Test mode: draft 802.11n Standard-20 MHz Channel mode / 5180 ~ 5240MHz

Channel	Frequency (MHz)	Chain 0 PSD (dBm)	Chain 1 PSD (dBm)	Chain 2 PSD (dBm)	PPSD (dBm)	Limit (dBm)	Margin	Result
Low	5180	-2.486	-2.698	-1.810	2.46	4.00	-1.54	PASS
Mid	5220	-2.292	-1.968	-2.452	2.54	4.00	-1.46	PASS
High	5240	-1.444	-1.549	-1.200	3.38	4.00	-0.62	PASS

Test mode: draft 802.11n Wide-40 MHz Channel mode / 5190 ~ 5230MHz

Channel	Frequency (MHz)	Chain 0 PSD (dBm)	Chain 1 PSD (dBm)	Chain 2 PSD (dBm)	PPSD (dBm)	Limit (dBm)	Margin	Result
Low	5190	-2.888	-2.399	-0.308	3.06	4.00	-0.94	PASS
High	5230	-3.698	-2.385	-2.132	2.09	4.00	-1.91	PASS

Test mode: draft 802.11n Standard-20 MHz Channel mode / 5180 ~ 5240MHz with combiner

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin	Result
Low	5180	3.562	4.00	-0.438	PASS
Mid	5220	3.031	4.00	-0.969	PASS
High	5240	2.616	4.00	-1.384	PASS

Test mode: draft 802.11n Wide-40 MHz Channel mode / 5190 ~ 5230MHz with combiner

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin	Result
Low	5190	2.353	4.00	-1.647	PASS
High	5230	3.401	4.00	-0.599	PASS

Remark: Total PSD (dBm) = $10 \cdot \log(10^{\text{Chain 0 PSD} / 10} + 10^{\text{Chain 1 PSD} / 10} + 10^{\text{Chain 2 PSD} / 10})$

**Test mode: IEEE 802.11a mode/ 5260 ~ 5320MHz**

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin	Result
Low	5260	4.920	11.00	-6.080	PASS
Mid	5280	5.189	11.00	-5.811	PASS
High	5320	10.201	11.00	-0.799	PASS

Test mode: draft 802.11n Standard-20 MHz Channel mode / 5260 ~ 5320MHz

Channel	Frequency (MHz)	Chain 0 PSD (dBm)	Chain 1 PSD (dBm)	Chain 2 PSD (dBm)	PPSD (dBm)	Limit (dBm)	Margin	Result
Low	5260	2.666	3.168	5.435	8.70	11.00	-2.30	PASS
Mid	5280	2.837	2.291	5.71	8.66	11.00	-2.34	PASS
High	5320	9.917	-2.109	0.755	10.65	11.00	-0.35	PASS

Test mode: draft 802.11n Wide-40 MHz Channel mode / 5270 ~ 5310MHz

Channel	Frequency (MHz)	Chain 0 PSD (dBm)	Chain 1 PSD (dBm)	Chain 2 PSD (dBm)	PPSD (dBm)	Limit (dBm)	Margin	Result
Low	5270	0.28	-1.889	0.47	4.52	11.00	-6.48	PASS
High	5310	-6.104	-5.87	-0.725	1.30	11.00	-9.70	PASS

Test mode: draft 802.11n Standard-20 MHz Channel mode / 5260 ~ 5320MHz MHz with combiner

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin	Result
Low	5260	9.968	11.00	-1.032	PASS
Mid	5280	8.943	11.00	-2.057	PASS
High	5320	5.559	11.00	-5.441	PASS

Test mode: draft 802.11n Wide-40 MHz Channel mode / 5270 ~ 5310MHz with combiner

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin	Result
Low	5270	5.677	11.00	-5.323	PASS
High	5310	9.562	11.00	-1.438	PASS

Remark: Total PSD (dBm) = $10 \cdot \log(10^{\text{Chain 0 PSD} / 10} + 10^{\text{Chain 1 PSD} / 10} + 10^{\text{Chain 2 PSD} / 10})$

**Test mode: IEEE 802.11a mode / 5500 ~ 5700MHz**

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin	Result
Low	5500	5.146	11.00	-5.854	PASS
Mid	5600	5.967	11.00	-5.033	PASS
High	5700	4.967	11.00	-6.033	PASS

Test mode: draft 802.11n Standard-20 MHz Channel mode / 5500 ~ 5700MHz

Channel	Frequency (MHz)	Chain 0 PSD (dBm)	Chain 1 PSD (dBm)	Chain 2 PSD (dBm)	PPSD (dBm)	Limit (dBm)	Margin	Result
Low	5500	0.474	0.419	1.042	5.43	11.00	-5.57	PASS
Mid	5600	2.645	1.463	1.792	6.77	11.00	-4.23	PASS
High	5700	3.918	3.974	4.180	8.80	11.00	-2.20	PASS

Test mode: draft 802.11n Wide-40 MHz Channel mode / 5510 ~ 5670MHz

Channel	Frequency (MHz)	Chain 0 PSD (dBm)	Chain 1 PSD (dBm)	Chain 2 PSD (dBm)	PPSD (dBm)	Limit (dBm)	Margin	Result
Low	5510	4.395	5.082	5.629	9.84	11.00	-1.16	PASS
Mid	5590	-0.885	-1.056	-0.290	4.04	11.00	-6.96	PASS
High	5670	1.478	-0.298	0.562	5.41	11.00	-5.59	PASS

Test mode: draft 802.11n Standard-20 MHz Channel mode / 5500 ~ 5700MHz MHz with combiner

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin	Result
Low	5500	3.893	11.00	-7.107	PASS
Mid	5600	6.544	11.00	-4.456	PASS
High	5700	8.030	11.00	-2.970	PASS

Test mode: draft 802.11n Wide-40 MHz Channel mode / 5510 ~ 5670MHz with combiner

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin	Result
Low	5510	0.72	11.00	-10.28	PASS
Mid	5590	4.776	11.00	-6.224	PASS
High	5670	5.086	11.00	-5.914	PASS

Remark: Total PSD (dBm) = $10 \cdot \log(10^{(\text{Chain 0 PSD} / 10)} + 10^{(\text{Chain 1 PSD} / 10)} + 10^{(\text{Chain 2 PSD} / 10)})$



Test Plot

IEEE 802.11a mode / 5180 ~ 5240MHz

CH Low

Agilent 16:36:43 Jul 29, 2008

R T

Peak Power Spectral Density, a Mode Low Ch.

Mkr1 5.175 57 GHz

Ref 30 dBm

Atten 30 dB

2.369 dBm

#Samp

Log

10

dB/

Offst

18

dB

DI

4.0

dBm

#PAvg

100

W1 S2

Center 5.180 00 GHz

Span 24.86 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 1 ms (601 pts)

Channel Power

Power Spectral Density

14.07 dBm / 16.5740 MHz

-58.13 dBm/Hz

CH Mid

Agilent 17:23:24 Jul 29, 2008

R T

Peak Power Spectral Density, a Mode Mid Ch.

Mkr1 5.202 86 GHz

Ref 30 dBm

Atten 30 dB

3.374 dBm

#Samp

Log

10

dB/

Offst

18

dB

DI

4.0

dBm

#PAvg

100

W1 S2

Center 5.200 00 GHz

Span 24.85 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 1 ms (601 pts)

Channel Power

Power Spectral Density

14.44 dBm / 16.5690 MHz

-57.76 dBm/Hz

**CH High**

* Agilent 17:40:09 Jul 29, 2008

R T

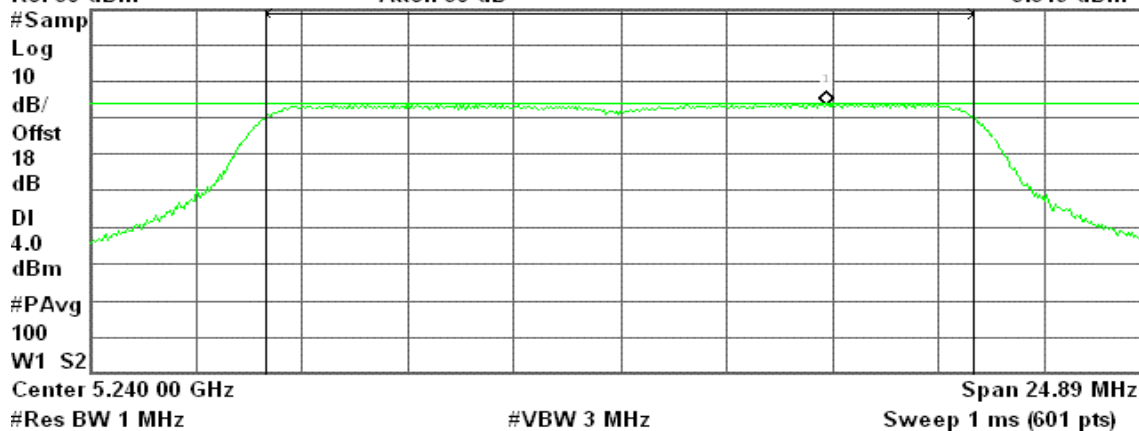
Peak Power Spectral Density, a Mode High Ch.

Mkr1 5.244 81 GHz

Ref 30 dBm

Atten 30 dB

3.549 dBm



Channel Power

Power Spectral Density

14.95 dBm / 16.5903 MHz

-57.24 dBm/Hz

draft 802.11n Standard-20 MHz Channel mode / 5180 ~ 5240MHz / Chain 0**CH Low**

* Agilent 19:02:08 Aug 4, 2008

R T

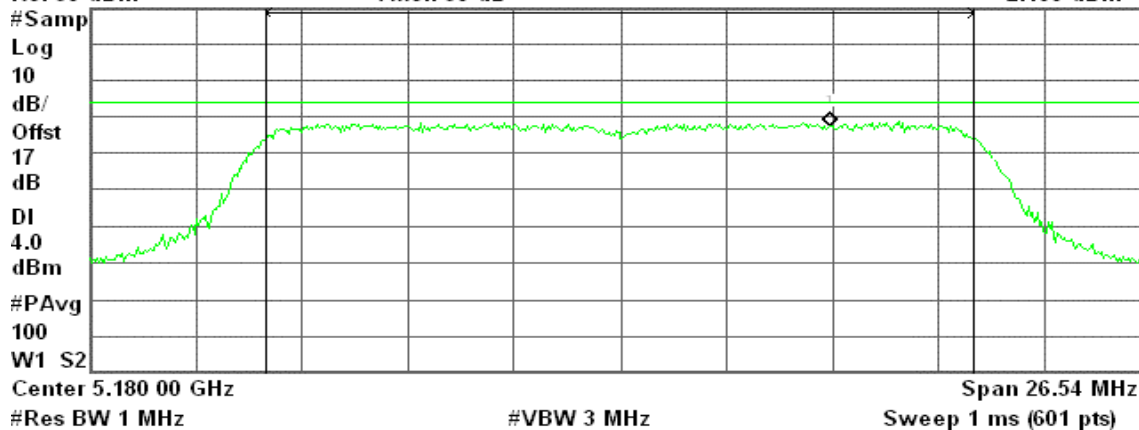
Peak Power Spectral Density, a Mode Low Ch.

Mkr1 5.185 22 GHz

Ref 30 dBm

Atten 30 dB

-2.486 dBm



Channel Power

Power Spectral Density

9.51 dBm / 17.6924 MHz

-62.96 dBm/Hz



CH Mid

* Agilent 19:25:42 Aug 4, 2008

R T

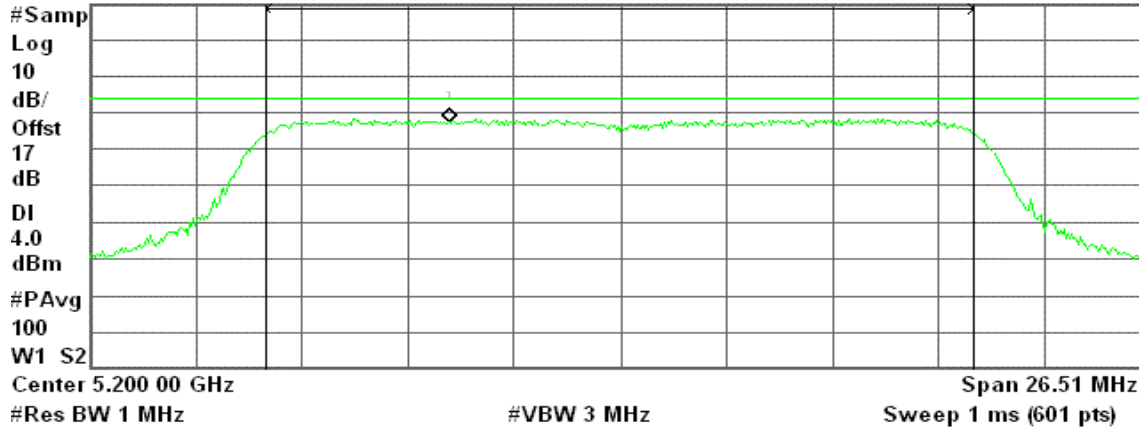
Peak Power Spectral Density, a Mode Mid Ch.

Mkr1 5.195 76 GHz

Ref 30 dBm

Atten 30 dB

-2.292 dBm



Channel Power

Power Spectral Density

9.13 dBm / 17.6713 MHz

-63.34 dBm/Hz

CH High

* Agilent 19:35:17 Aug 4, 2008

R T

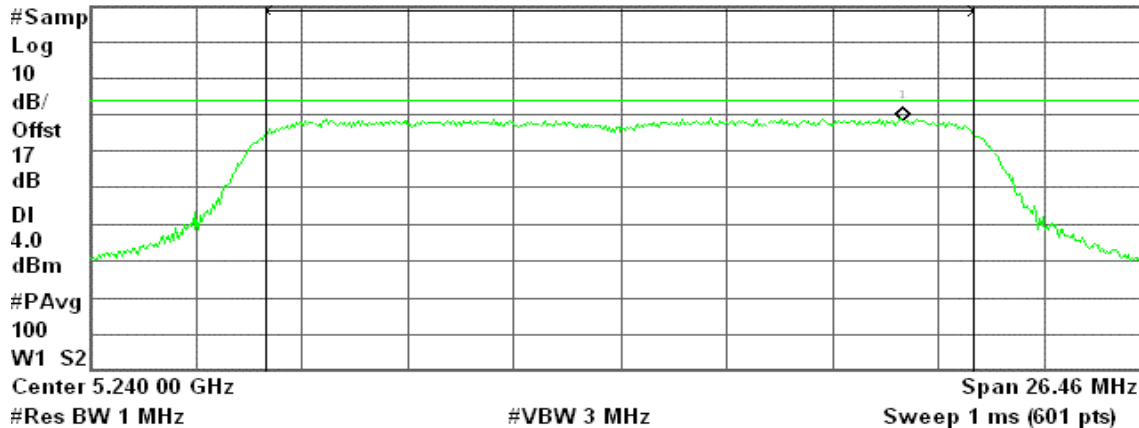
Peak Power Spectral Density, a Mode High Ch.

Mkr1 5.247 06 GHz

Ref 30 dBm

Atten 30 dB

-1.444 dBm



Channel Power

Power Spectral Density

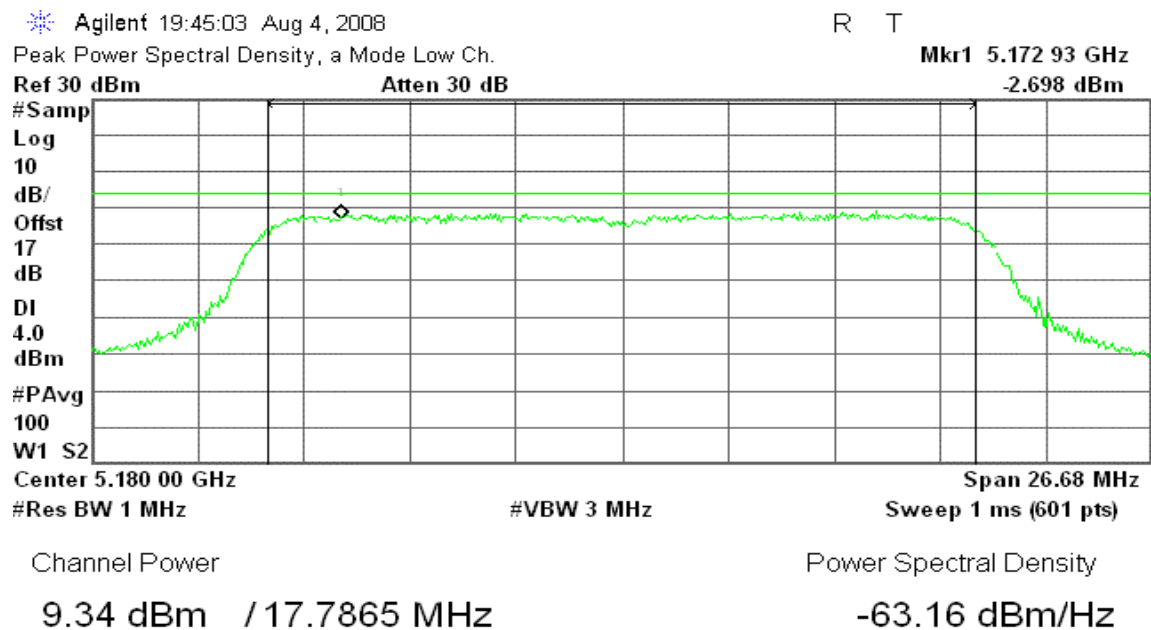
9.95 dBm / 17.6432 MHz

-62.52 dBm/Hz

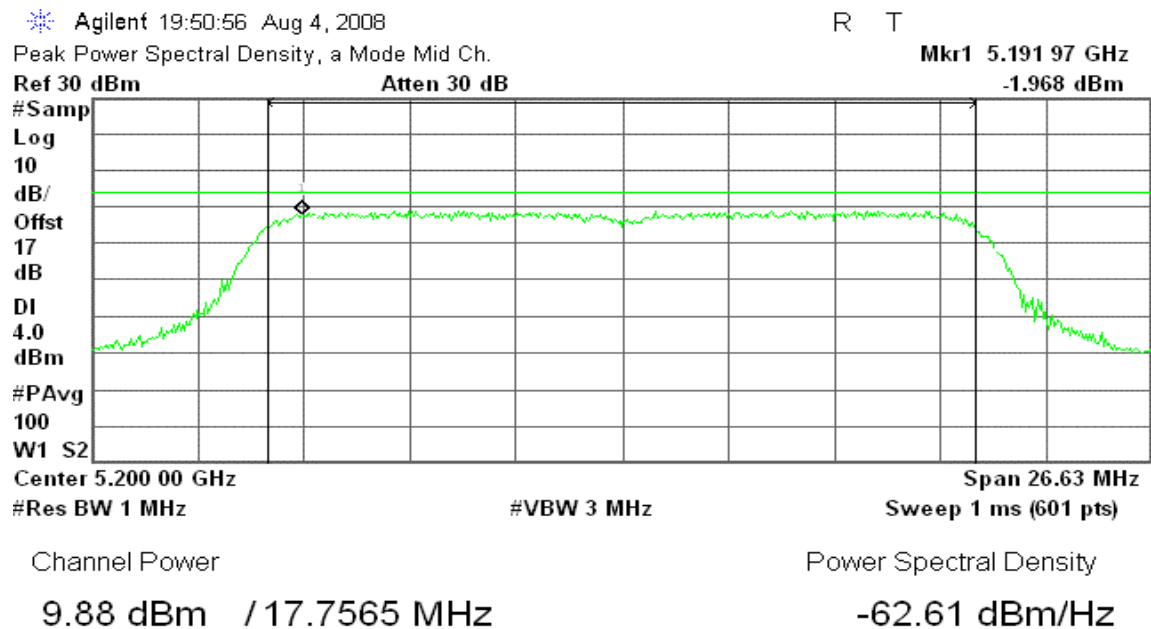


draft 802.11n Standard-20 MHz Channel mode / 5180 ~ 5240MHz / Chain 1

CH Low



CH Mid





CH High

Agilent 20:04:18 Aug 4, 2008

R T

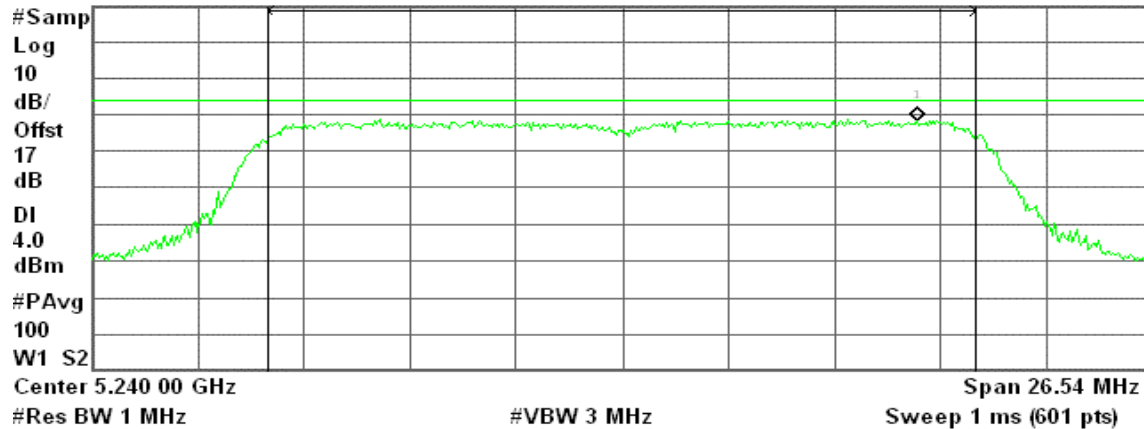
Peak Power Spectral Density, a Mode High Ch.

Mkr1 5.247 39 GHz

Ref 30 dBm

Atten 30 dB

-1.549 dBm



Channel Power

Power Spectral Density

9.71 dBm / 17.6950 MHz

-62.76 dBm/Hz

draft 802.11n Standard-20 MHz Channel mode / 5180 ~ 5240MHz / Chain 2

CH Low

Agilent 20:13:40 Aug 4, 2008

R T

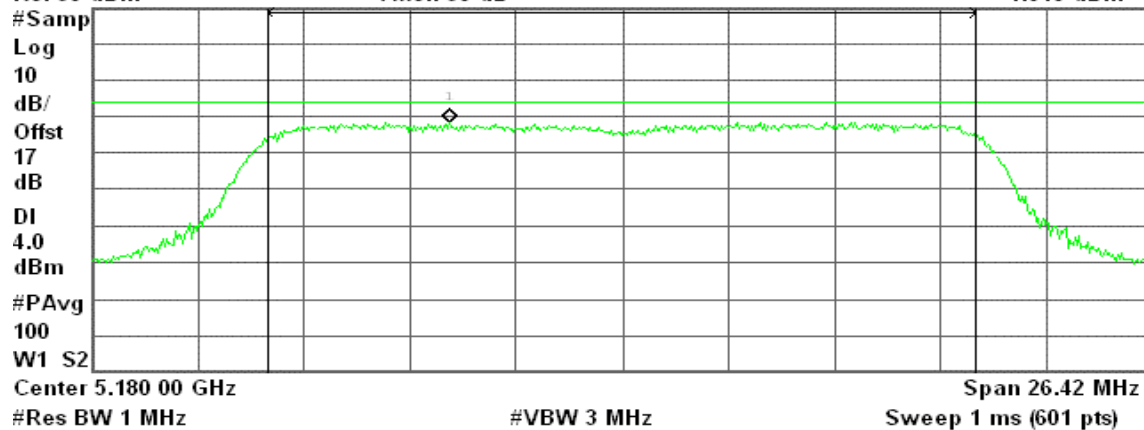
Peak Power Spectral Density, a Mode Low Ch.

Mkr1 5.175 73 GHz

Ref 30 dBm

Atten 30 dB

-1.810 dBm



Channel Power

Power Spectral Density

9.21 dBm / 17.6106 MHz

-63.25 dBm/Hz



CH Mid

* Agilent 20:21:41 Aug 4, 2008

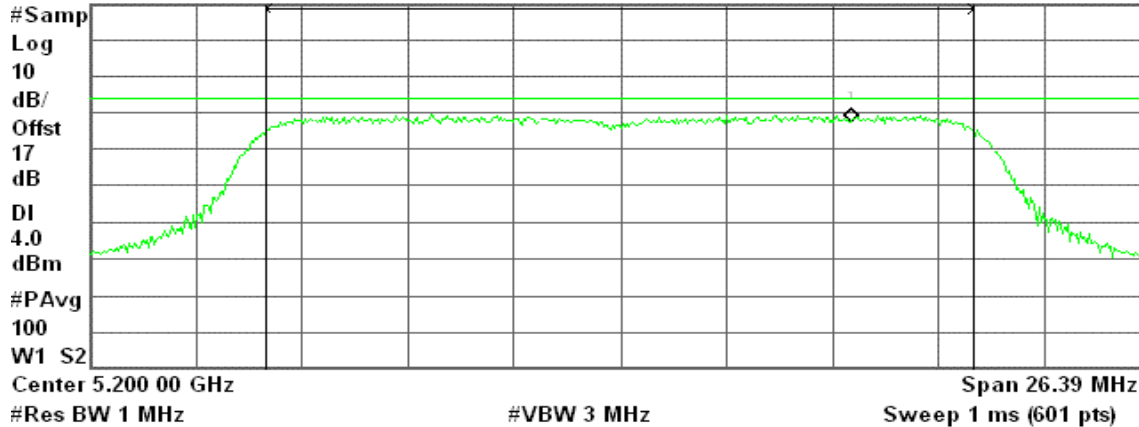
R T

Peak Power Spectral Density, a Mode Mid Ch.

Mkr1 5.205 76 GHz
-2.452 dBm

Ref 30 dBm

Atten 30 dB



Channel Power

Power Spectral Density

10.41 dBm / 17.5928 MHz

-62.04 dBm/Hz

CH High

* Agilent 20:27:19 Aug 4, 2008

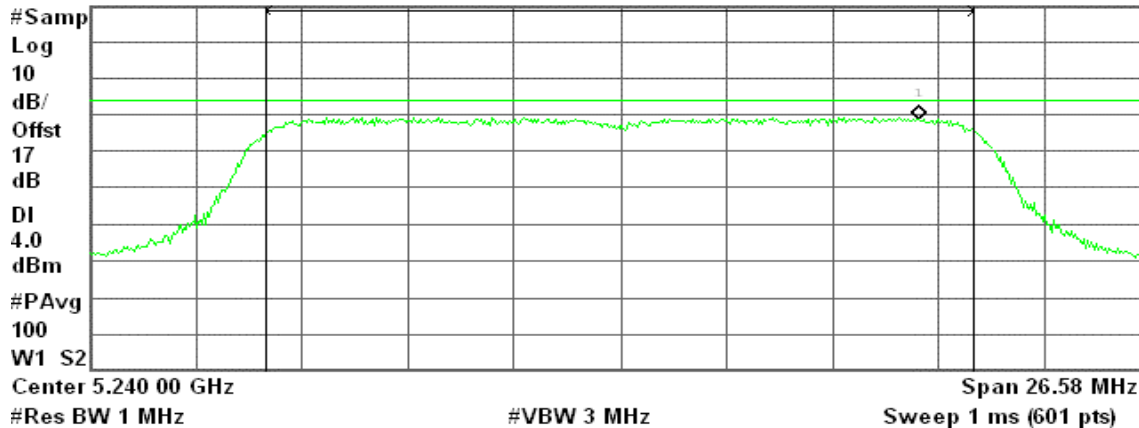
R T

Peak Power Spectral Density, a Mode High Ch.

Mkr1 5.247 49 GHz
-1.200 dBm

Ref 30 dBm

Atten 30 dB



Channel Power

Power Spectral Density

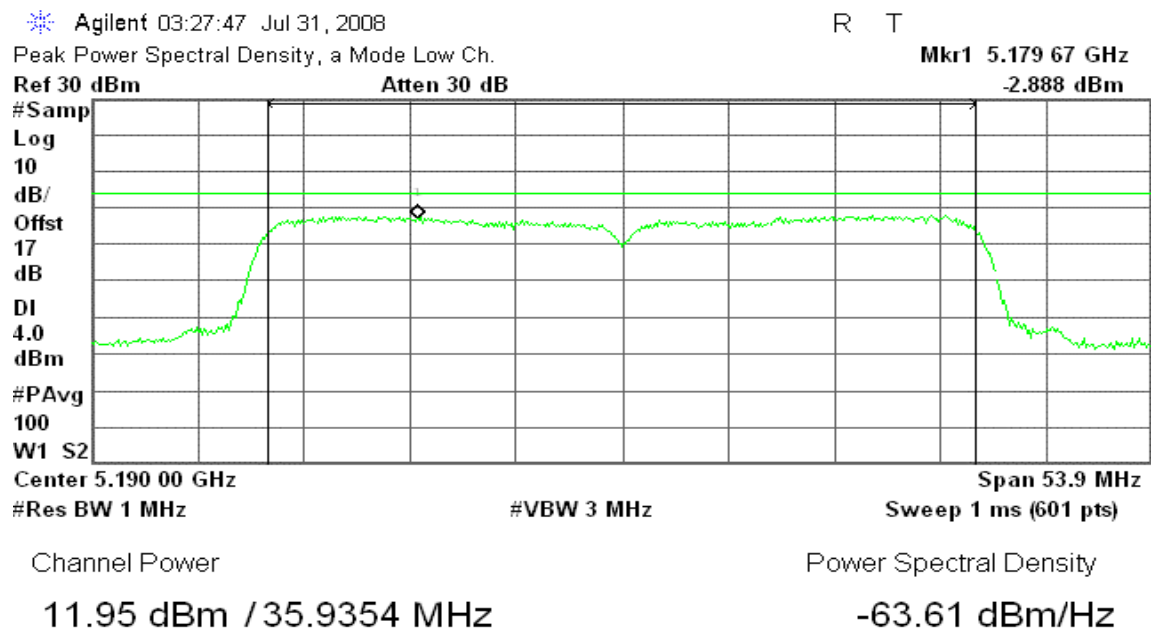
10.85 dBm / 17.7226 MHz

-61.63 dBm/Hz

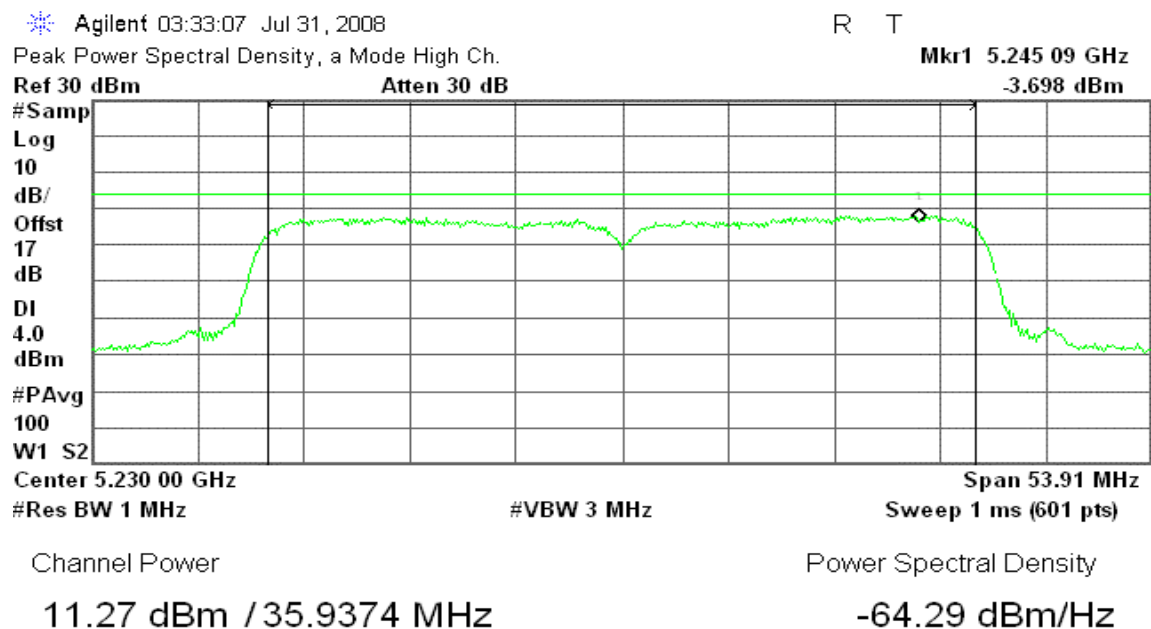


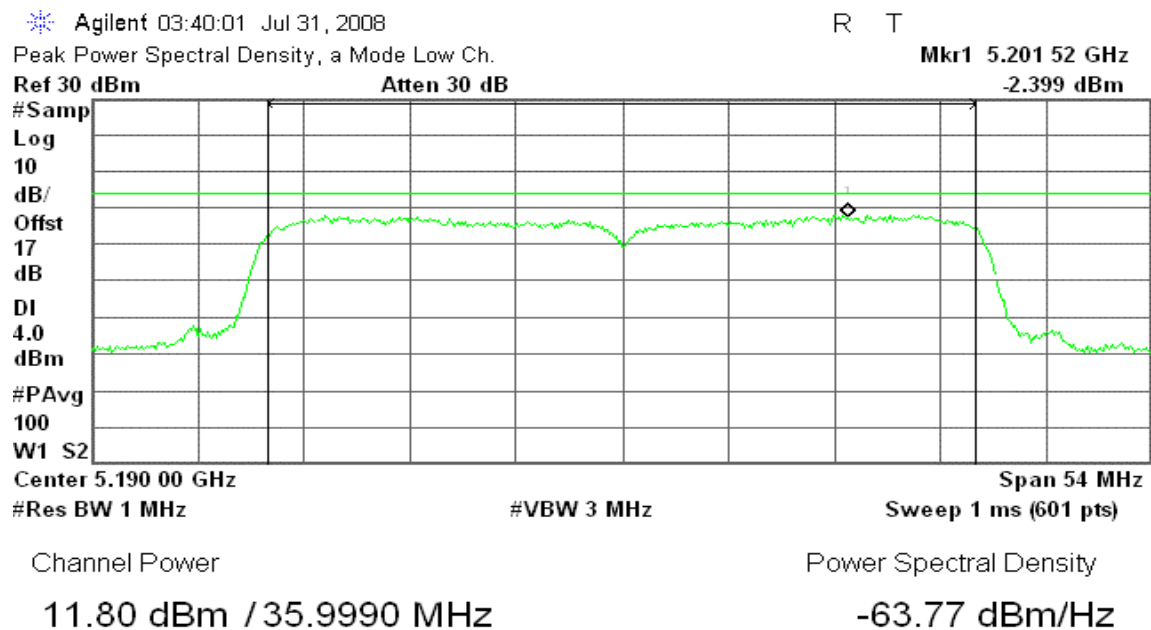
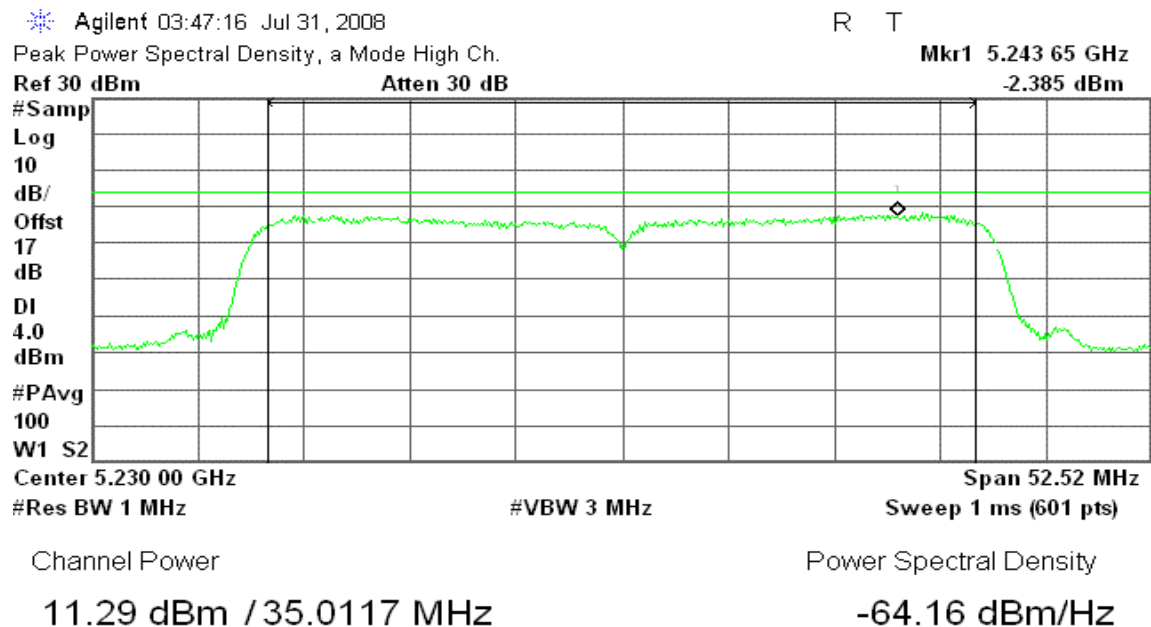
draft 802.11n Wide-40 MHz Channel mode / 5190 ~ 5230MHz / Chain 0

CH Low



CH High

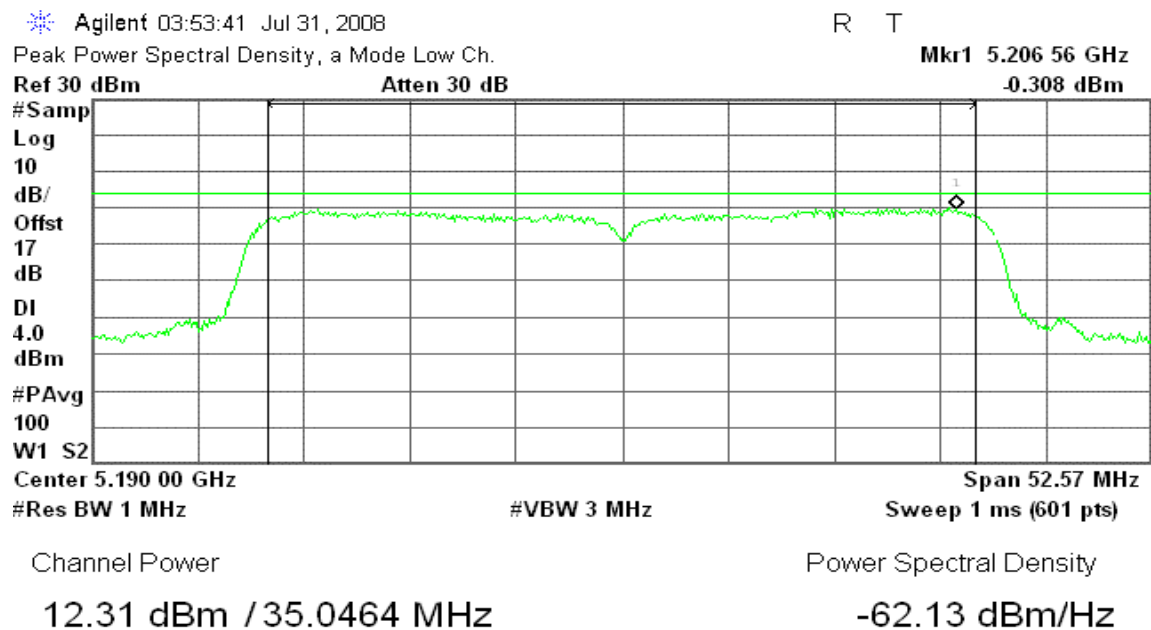


**draft 802.11n Wide-40 MHz Channel mode / 5190 ~ 5230MHz / Chain 1****CH Low****CH High**

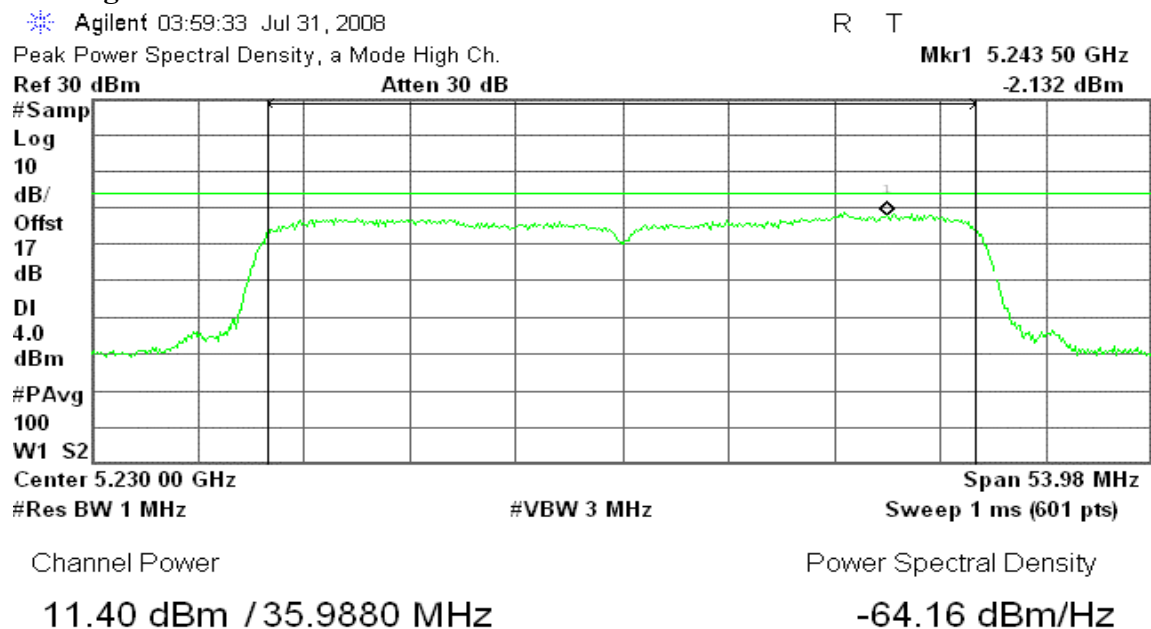


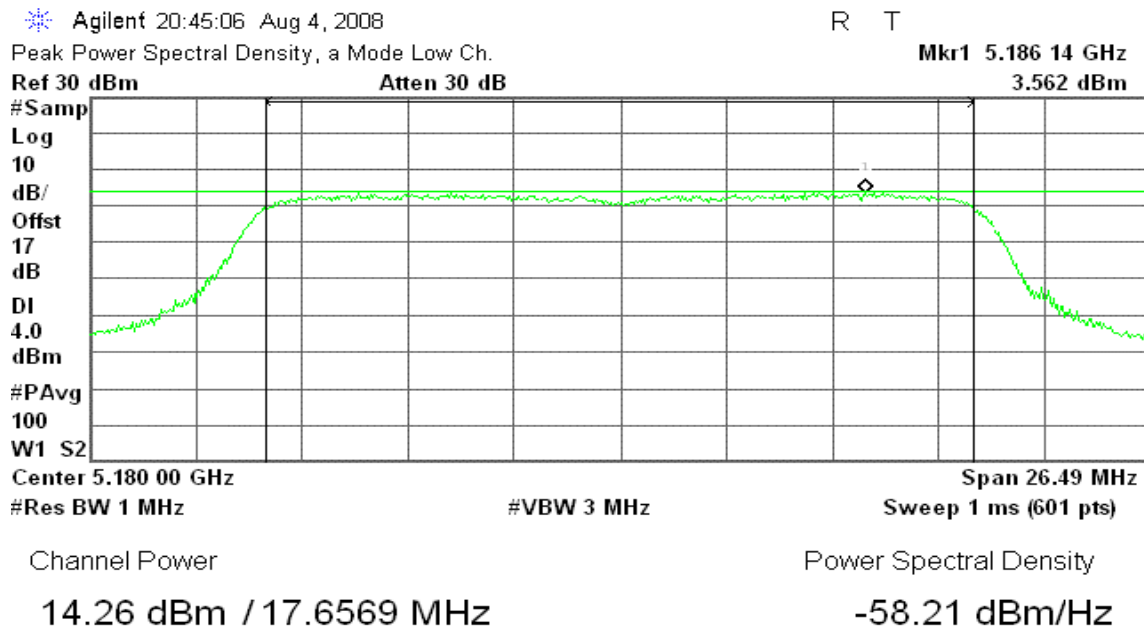
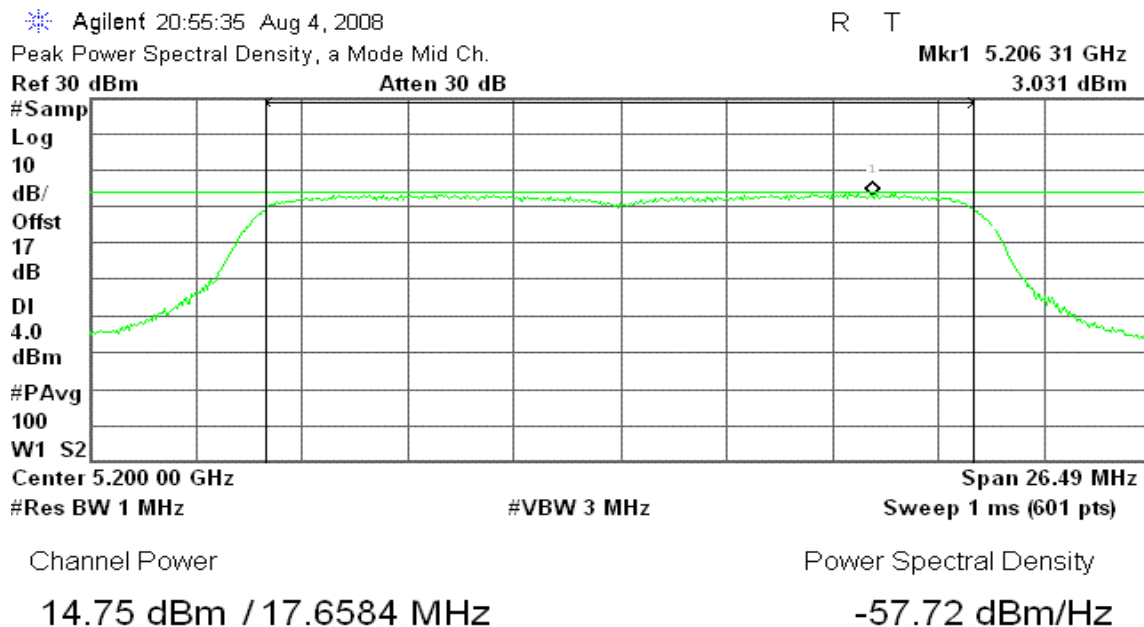
draft 802.11n Wide-40 MHz Channel mode / 5190 ~ 5230MHz / Chain 2

CH Low



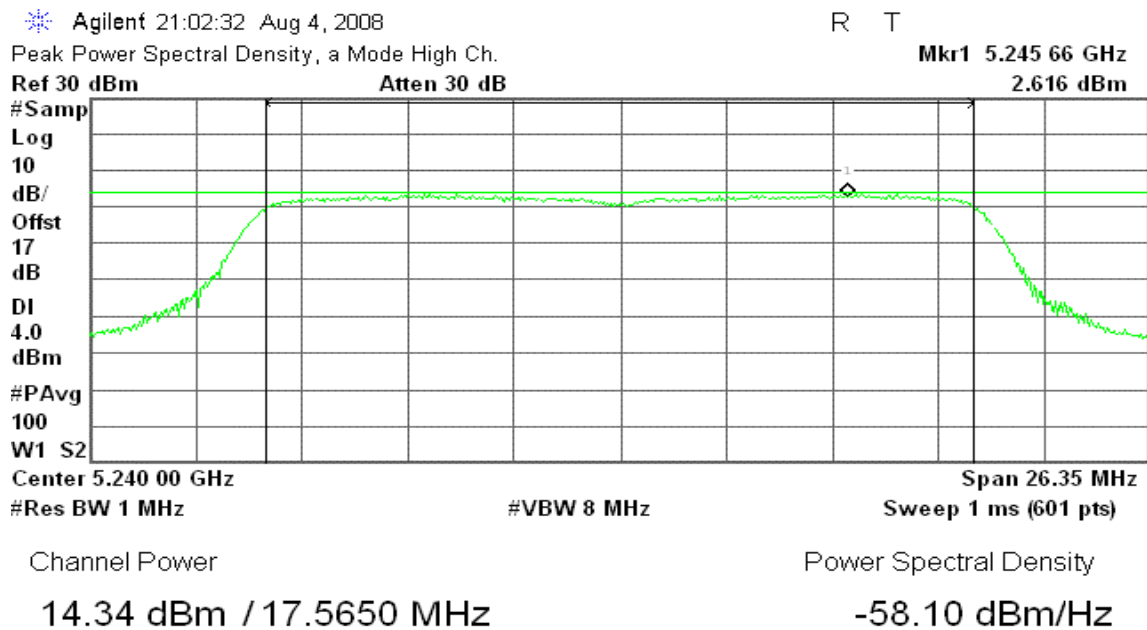
CH High



**Test mode: draft 802.11n Standard-20 MHz Channel mode / 5180 ~ 5240MHz with combiner:****CH Low****CH Mid**

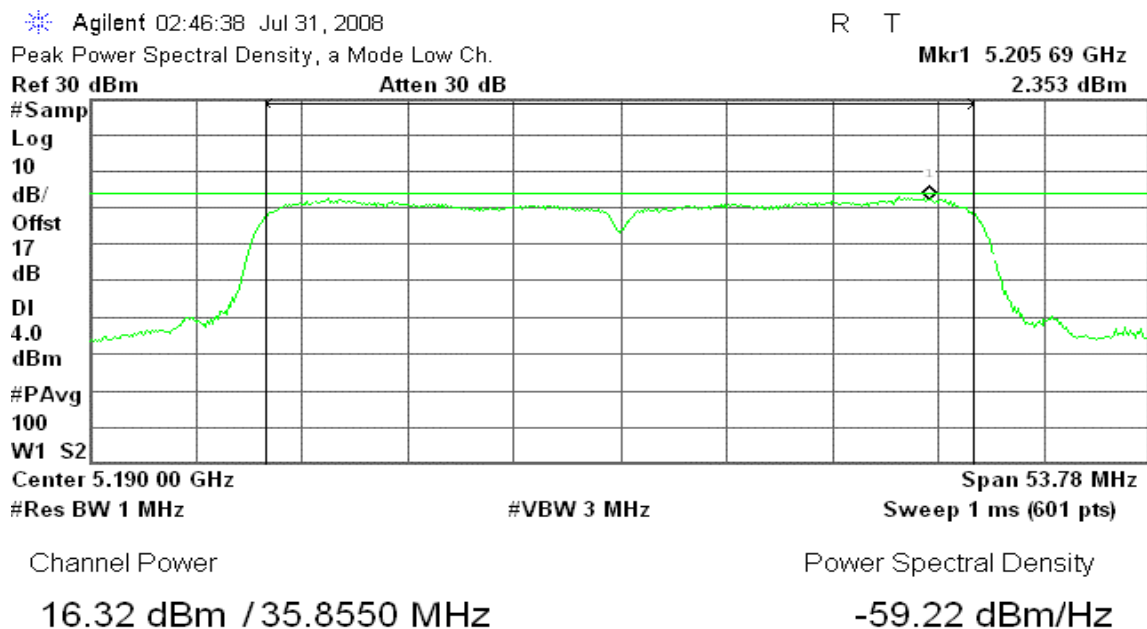


CH High



Test mode: draft 802.11n Wide-40 MHz Channel mode / 5190 ~ 5230MHz with combiner:

CH Low





CH High

Agilent 03:04:53 Jul 31, 2008

R T

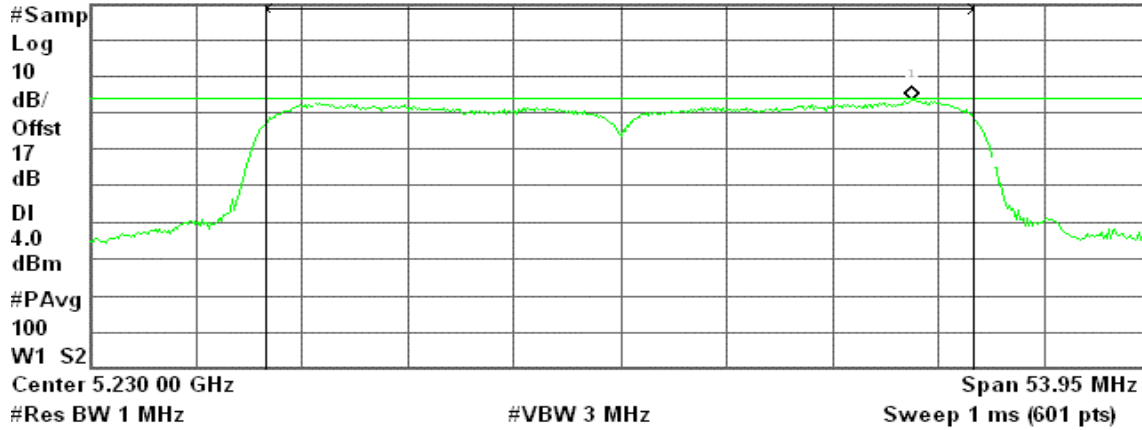
Peak Power Spectral Density, a Mode High Ch.

Mkr1 5.244 84 GHz

Ref 30 dBm

Atten 30 dB

3.401 dBm



Channel Power

Power Spectral Density

16.10 dBm / 35.9690 MHz

-59.46 dBm/Hz

**IEEE 802.11a mode / 5260 ~ 5320MHz****CH Low**

Agilent 17:59:09 Jul 29, 2008

R T

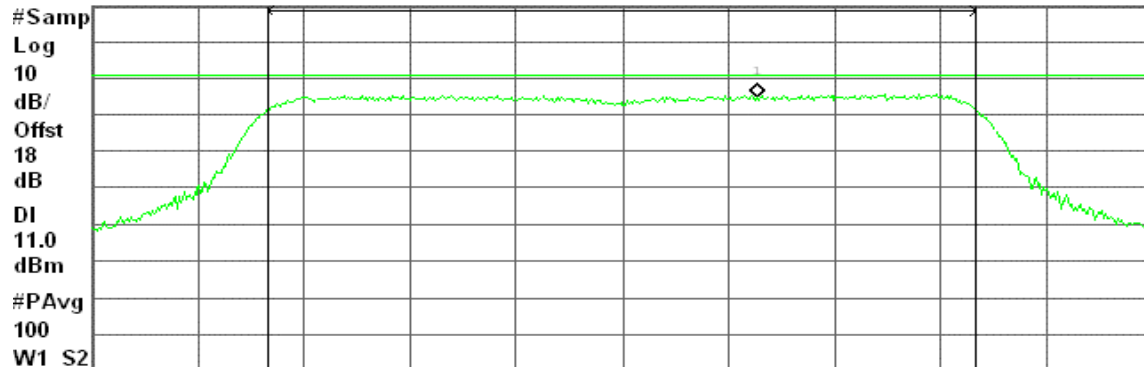
Peak Power Spectral Density, a Mode Low Ch.

Mkr1 5.263 15 GHz

Ref 30 dBm

Atten 30 dB

4.920 dBm



Center 5.260 00 GHz

Span 24.91 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 1 ms (601 pts)

Channel Power

Power Spectral Density

16.71 dBm / 16.6050 MHz

-55.50 dBm/Hz

CH Mid

Agilent 18:42:30 Jul 29, 2008

R T

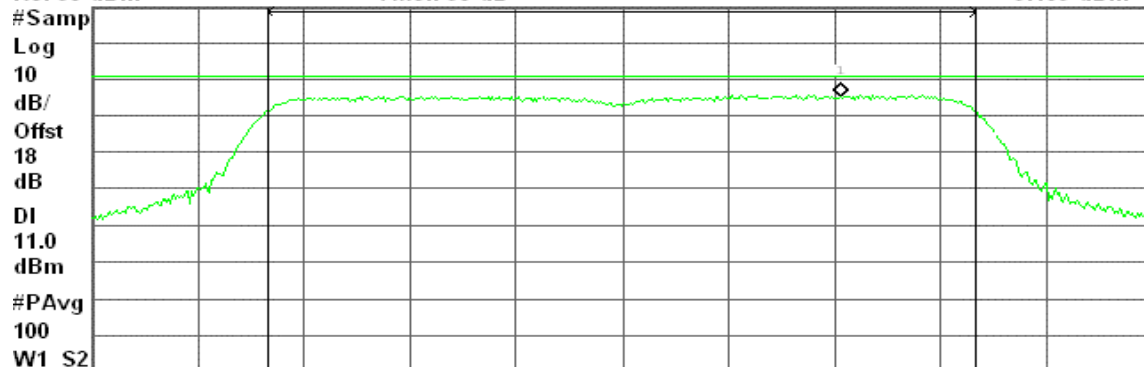
Peak Power Spectral Density, a Mode Mid Ch.

Mkr1 5.285 17 GHz

Ref 30 dBm

Atten 30 dB

5.189 dBm



Center 5.280 00 GHz

Span 25 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 1 ms (601 pts)

Channel Power

Power Spectral Density

16.62 dBm / 16.6690 MHz

-55.60 dBm/Hz



CH High

Agilent 19:30:59 Jul 29, 2008

R T

Peak Power Spectral Density, a Mode High Ch.

Mkr1 5.321 58 GHz

Ref 30 dBm

Atten 30 dB

10.201 dBm

#Samp

Log

10

dB/

Offst

18

dB

DI

11.0

dBm

#PAvg

72

M1 S2

Center 5.320 00 GHz

Span 24.89 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 1 ms (601 pts)

Channel Power

Power Spectral Density

14.11 dBm / 16.5910 MHz

-58.09 dBm/Hz

draft 802.11n Standard-20 MHz Channel mode / 5260 ~ 5320MHz / Chain 0

CH Low

Agilent 18:03:52 Jul 30, 2008

R T

Peak Power Spectral Density, a Mode Low Ch.

Mkr1 5.264 70 GHz

Ref 30 dBm

Atten 30 dB

2.666 dBm

#Samp

Log

10

dB/

Offst

17.2

dB

DI

11.0

dBm

#PAvg

100

W1 S2

Center 5.260 00 GHz

Span 24.93 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 1 ms (601 pts)

Channel Power

Power Spectral Density

15.63 dBm / 16.6212 MHz

-56.57 dBm/Hz



CH Mid

* Agilent 18:10:44 Jul 30, 2008

R T

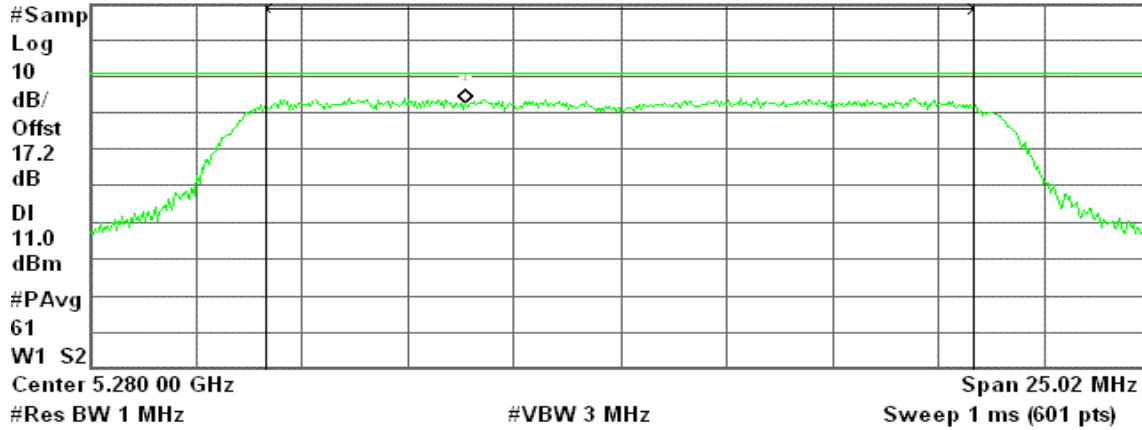
Peak Power Spectral Density, a Mode Mid Ch.

Mkr1 5.276 37 GHz

Ref 30 dBm

Atten 30 dB

2.837 dBm



Channel Power

Power Spectral Density

14.50 dBm / 16.6790 MHz

-57.72 dBm/Hz

CH High

* Agilent 18:18:20 Jul 30, 2008

R T

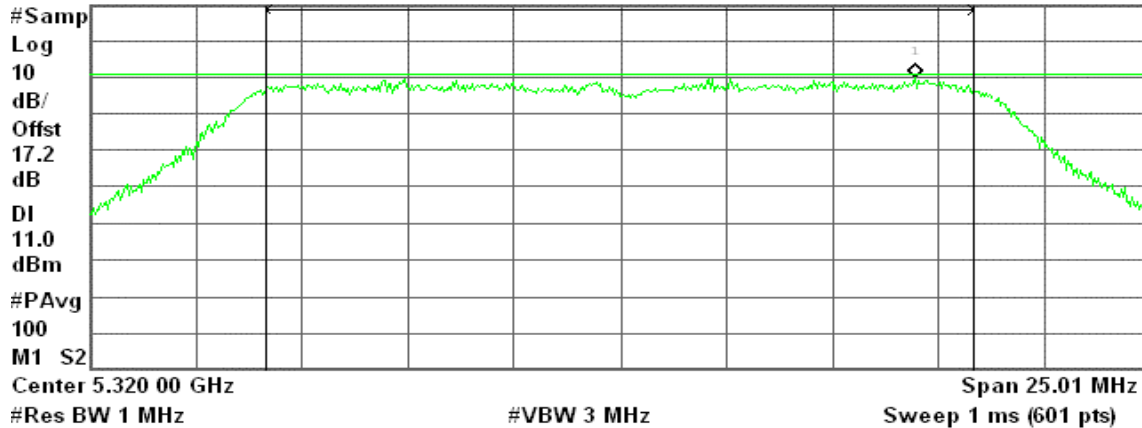
Peak Power Spectral Density, a Mode High Ch.

Mkr1 5.326 96 GHz

Ref 30 dBm

Atten 30 dB

9.917 dBm



Channel Power

Power Spectral Density

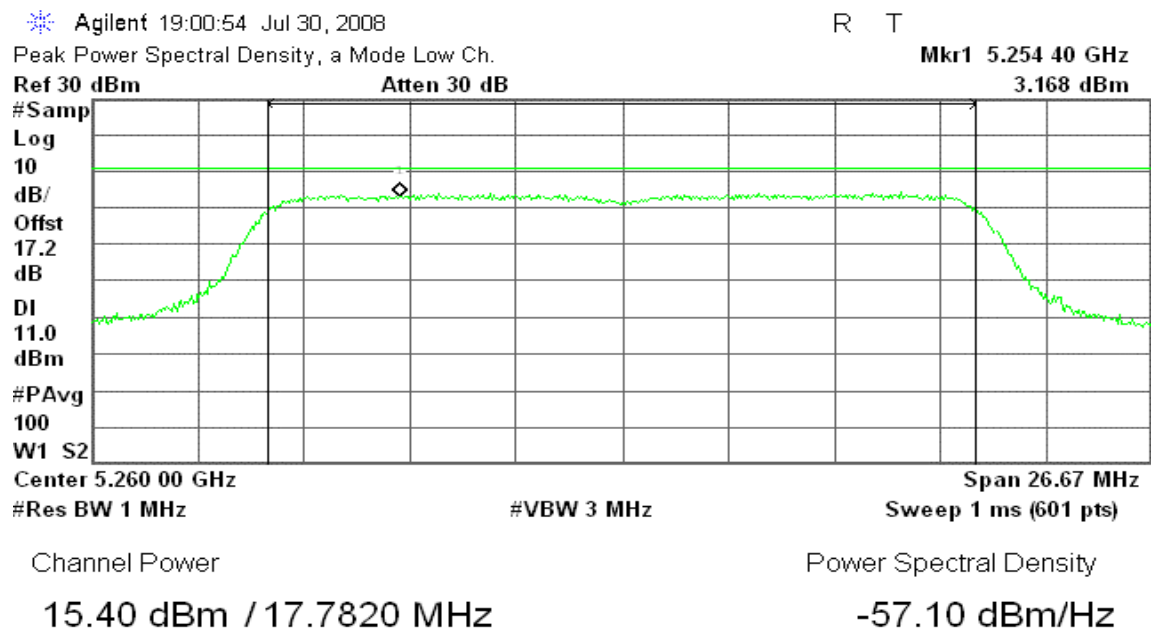
11.51 dBm / 16.6707 MHz

-60.71 dBm/Hz

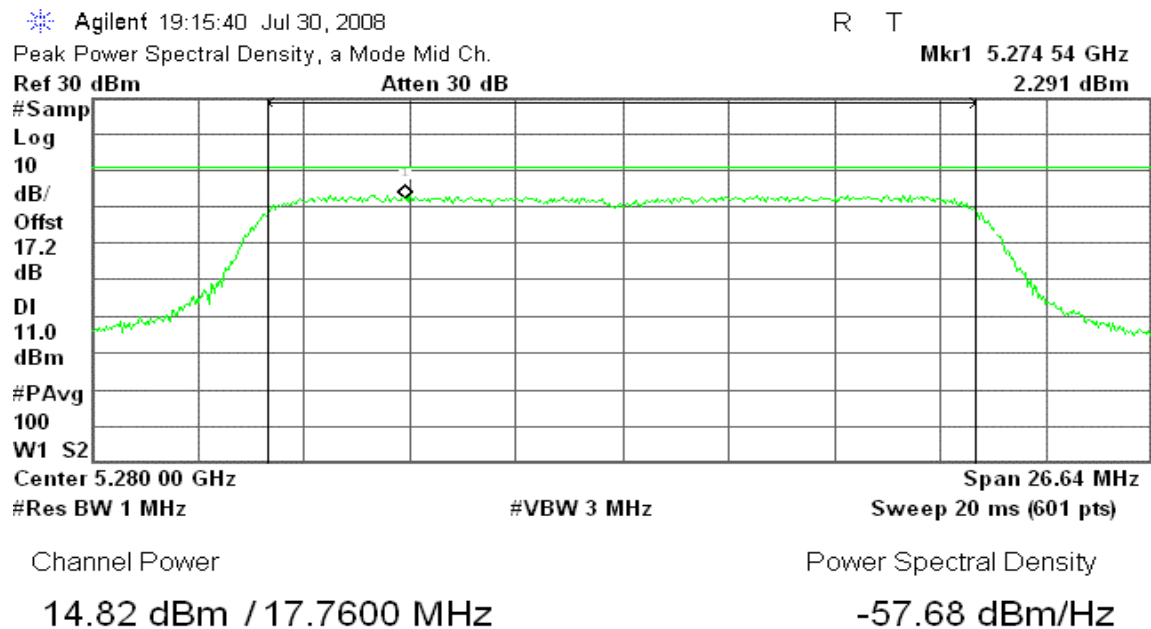


draft 802.11n Standard-20 MHz Channel mode / 5260 ~ 5320MHz / Chain 1

CH Low



CH Mid





CH High

Agilent 19:28:50 Jul 30, 2008

R T

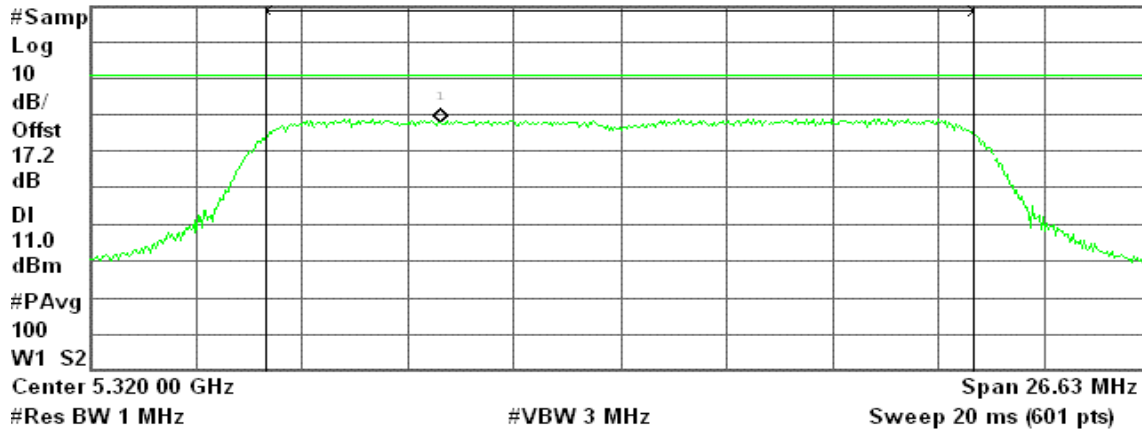
Peak Power Spectral Density, a Mode High Ch.

Mkr1 5.315 52 GHz

Ref 30 dBm

Atten 30 dB

-2.109 dBm



Channel Power

Power Spectral Density

10.15 dBm / 17.7520 MHz

-62.34 dBm/Hz

draft 802.11n Standard-20 MHz Channel mode / 5260 ~ 5320MHz / Chain 2

CH Low

Agilent 19:37:52 Jul 30, 2008

R T

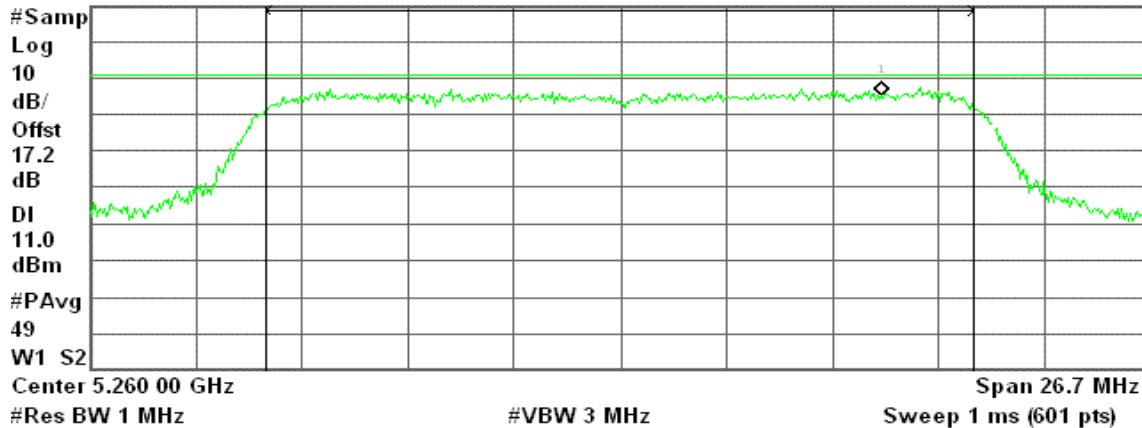
Peak Power Spectral Density, a Mode Low Ch.

Mkr1 5.266 59 GHz

Ref 30 dBm

Atten 30 dB

5.435 dBm



Channel Power

Power Spectral Density

16.87 dBm / 17.8030 MHz

-55.64 dBm/Hz



CH Mid

Agilent 19:44:25 Jul 30, 2008

R T

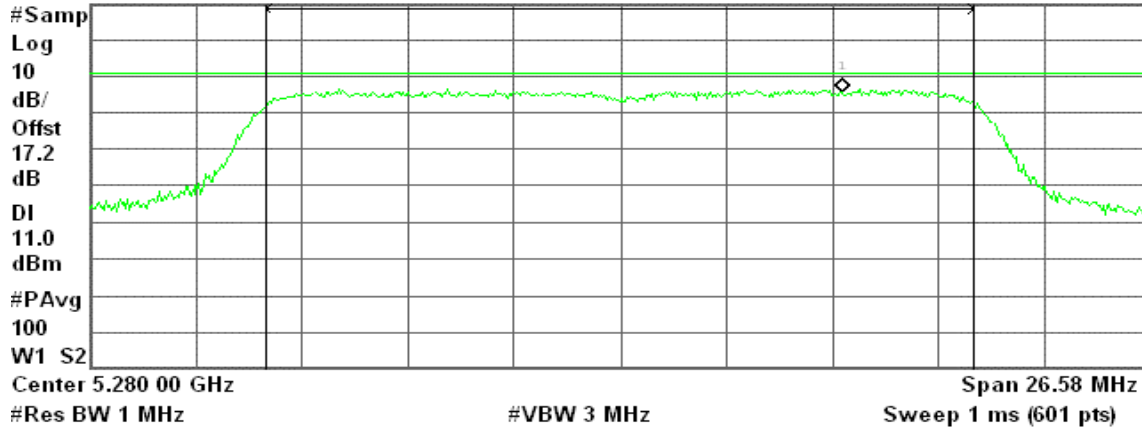
Peak Power Spectral Density, a Mode Mid Ch.

Mkr1 5.285 58 GHz

Ref 30 dBm

Atten 30 dB

5.710 dBm



Channel Power

Power Spectral Density

17.06 dBm / 17.7200 MHz

-55.42 dBm/Hz

CH High

Agilent 19:49:45 Jul 30, 2008

R T

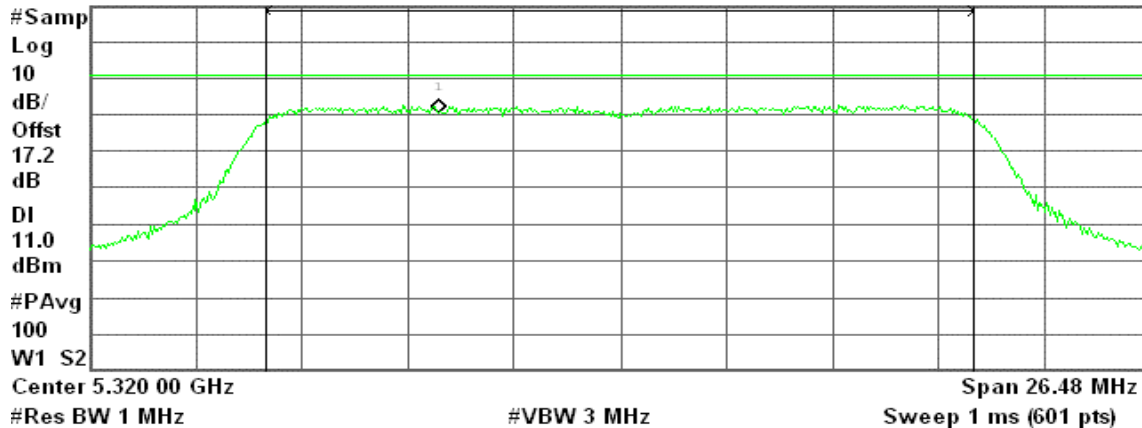
Peak Power Spectral Density, a Mode High Ch.

Mkr1 5.315 50 GHz

Ref 30 dBm

Atten 30 dB

0.755 dBm



Channel Power

Power Spectral Density

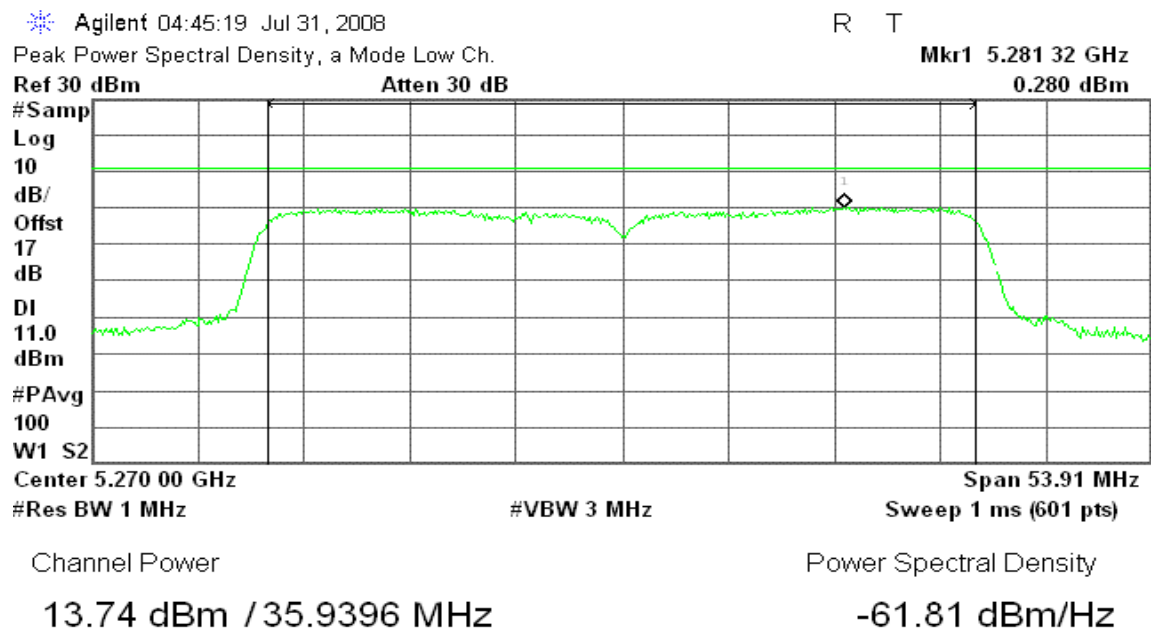
13.63 dBm / 17.6500 MHz

-58.84 dBm/Hz

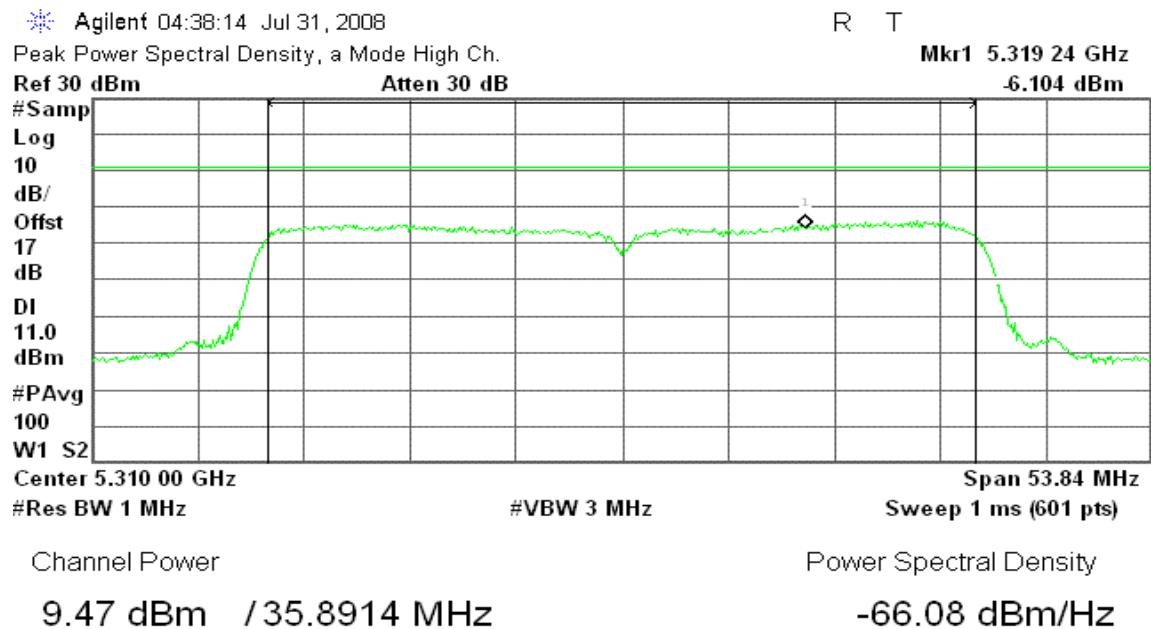


draft 802.11n Wide-40 MHz Channel mode / 5270 ~ 5310MHz / Chain 0

CH Low



CH High



**draft 802.11n Wide-40 MHz Channel mode / 5270 ~ 5310MHz / Chain 1****CH Low**

* Agilent 04:52:52 Jul 31, 2008

R T

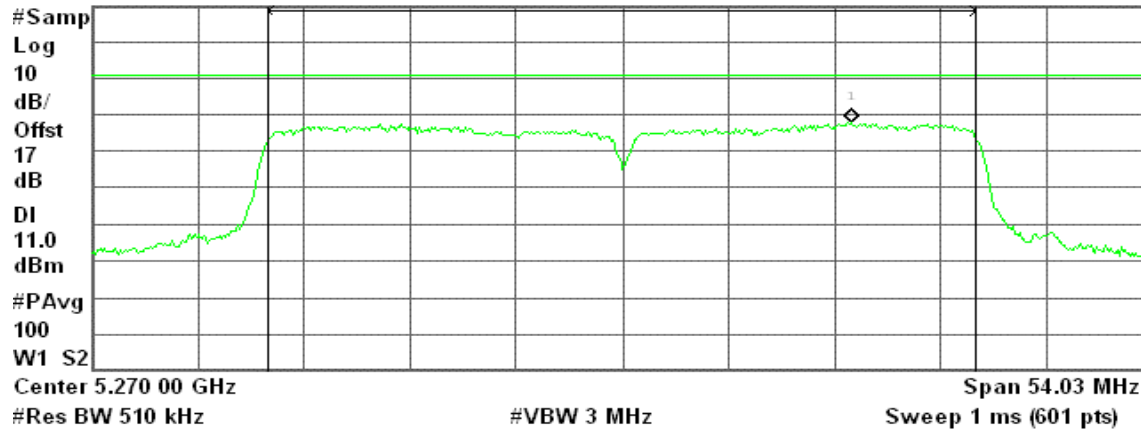
Peak Power Spectral Density, a Mode Low Ch.

Mkr1 5.281 71 GHz

Ref 30 dBm

Atten 30 dB

-1.889 dBm



Channel Power

Power Spectral Density

13.43 dBm / 36.0180 MHz

-62.13 dBm/Hz

CH High

* Agilent 04:58:03 Jul 31, 2008

R T

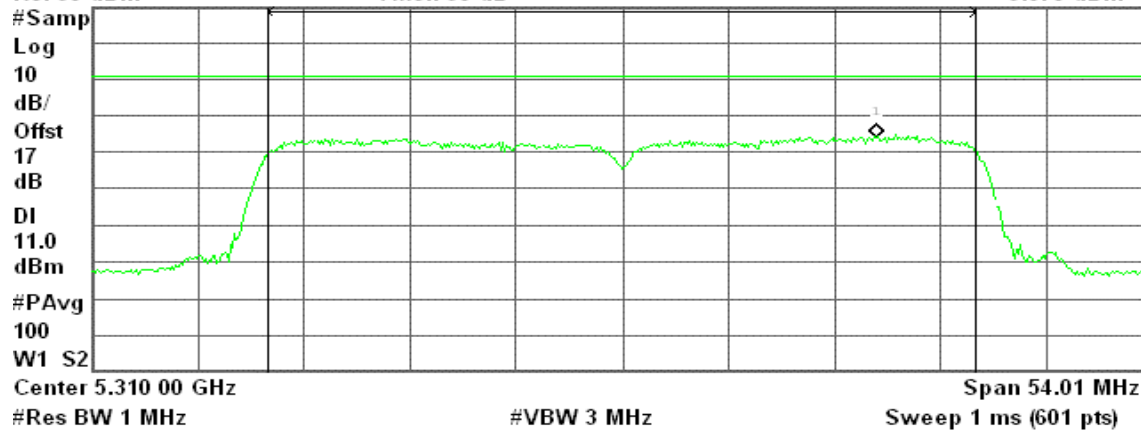
Peak Power Spectral Density, a Mode High Ch.

Mkr1 5.322 96 GHz

Ref 30 dBm

Atten 30 dB

-5.870 dBm

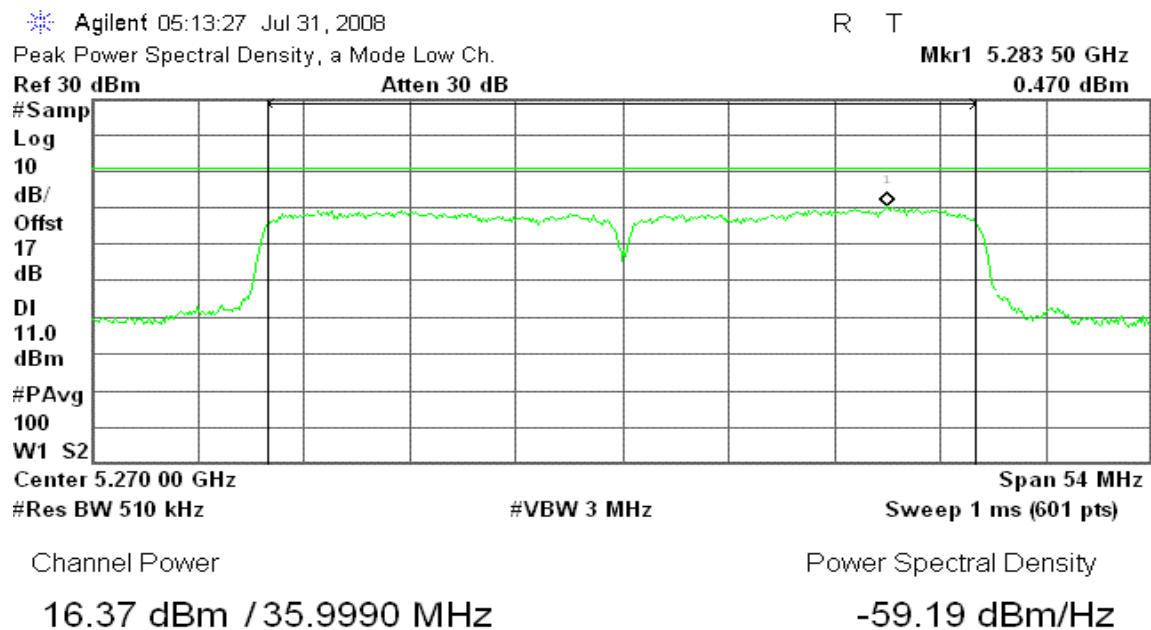
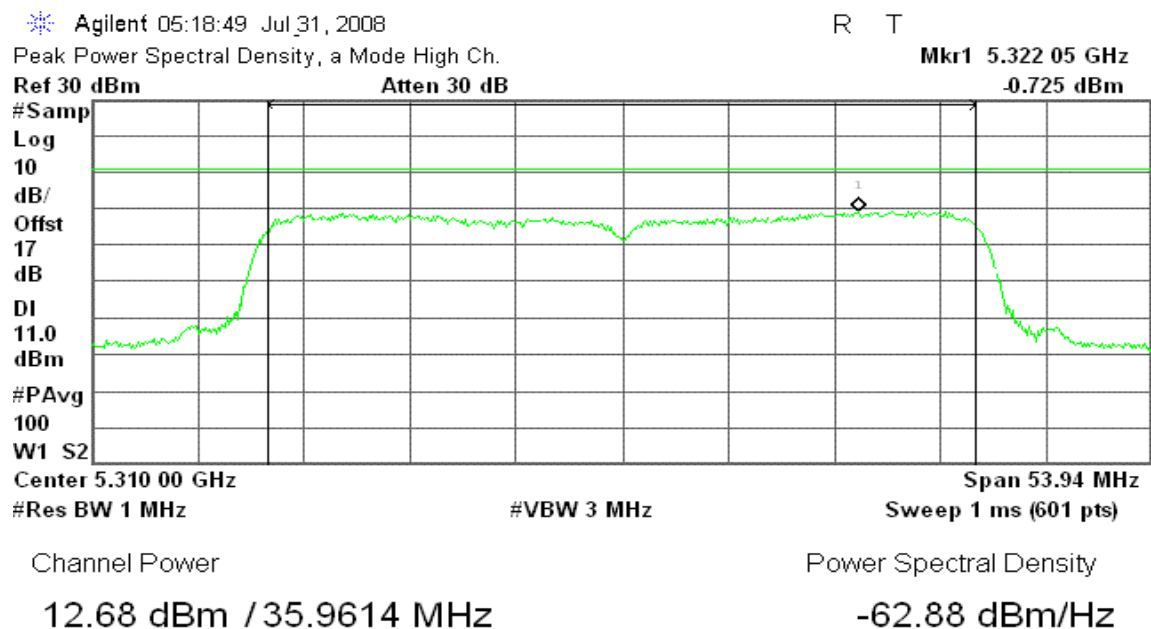


Channel Power

Power Spectral Density

7.70 dBm / 36.0070 MHz

-67.86 dBm/Hz

**draft 802.11n Wide-40 MHz Channel mode / 5270 ~ 5310MHz / Chain 2****CH Low****CH High**

**Test mode: draft 802.11n Standard-20 MHz Channel mode / 5260 ~ 5320MHz with combiner:****CH Low**

* Agilent 20:27:44 Jul 30, 2008

R T

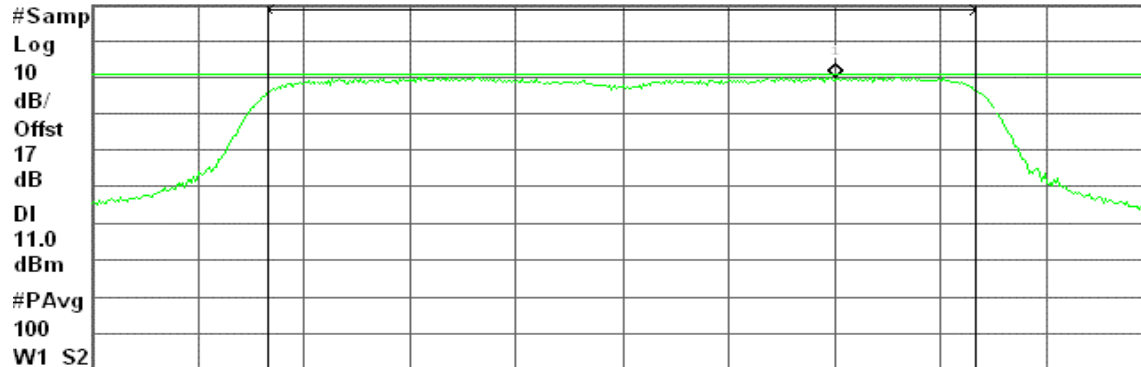
Peak Power Spectral Density, a Mode Low Ch.

Mkr1 5.265 36 GHz

Ref 30 dBm

Atten 30 dB

9.968 dBm



Center 5.260 00 GHz

Span 26.57 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 1 ms (601 pts)

Channel Power

Power Spectral Density

21.12 dBm / 17.7135 MHz

-51.37 dBm/Hz

CH Mid

* Agilent 20:39:13 Jul 30, 2008

R T

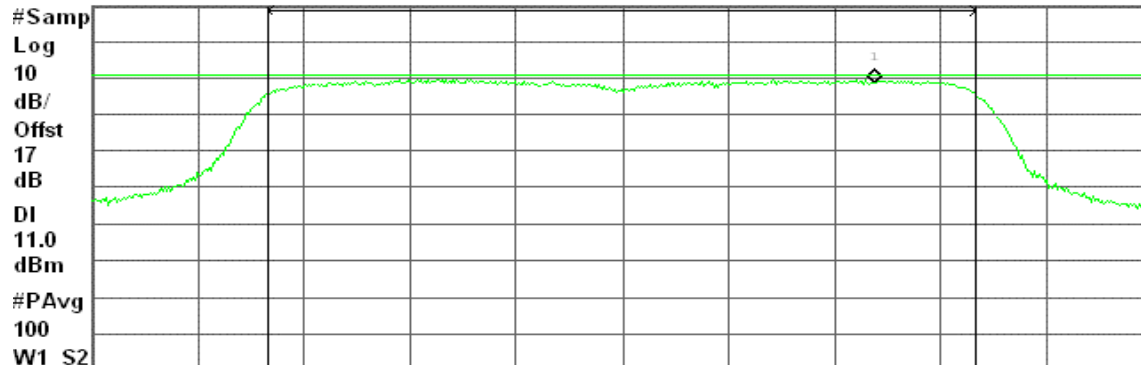
Peak Power Spectral Density, a Mode Mid Ch.

Mkr1 5.286 31 GHz

Ref 30 dBm

Atten 30 dB

8.943 dBm



Center 5.280 00 GHz

Span 26.46 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 1 ms (601 pts)

Channel Power

Power Spectral Density

20.28 dBm / 17.6380 MHz

-52.18 dBm/Hz



CH High

Agilent 21:16:09 Jul 30, 2008

R T

Peak Power Spectral Density, a Mode High Ch.

Mkr1 5.316 60 GHz

Ref 30 dBm

Atten 30 dB

5.559 dBm

#Samp

Log

10

dB/

Offst

17

dB

DI

11.0

dBm

#PAvg

100

W1 S2

Center 5.320 00 GHz

Span 26.48 MHz

#Res BW 1 MHz

#VBW 3 MHz

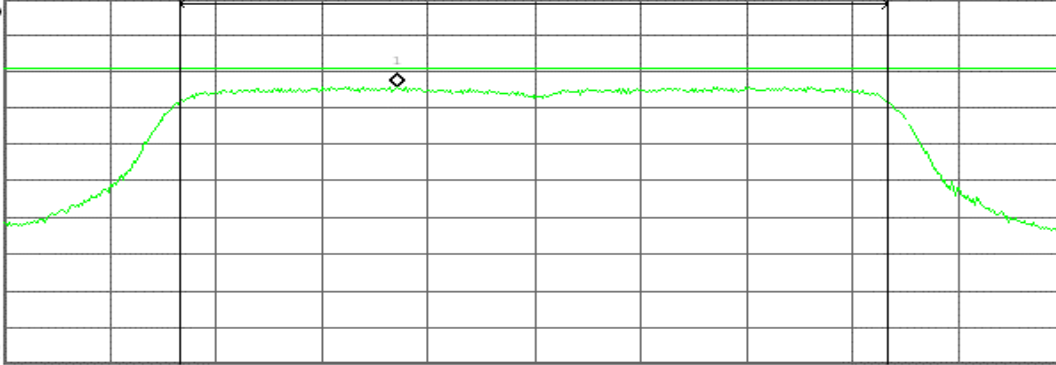
Sweep 1 ms (601 pts)

Channel Power

Power Spectral Density

17.38 dBm / 17.6500 MHz

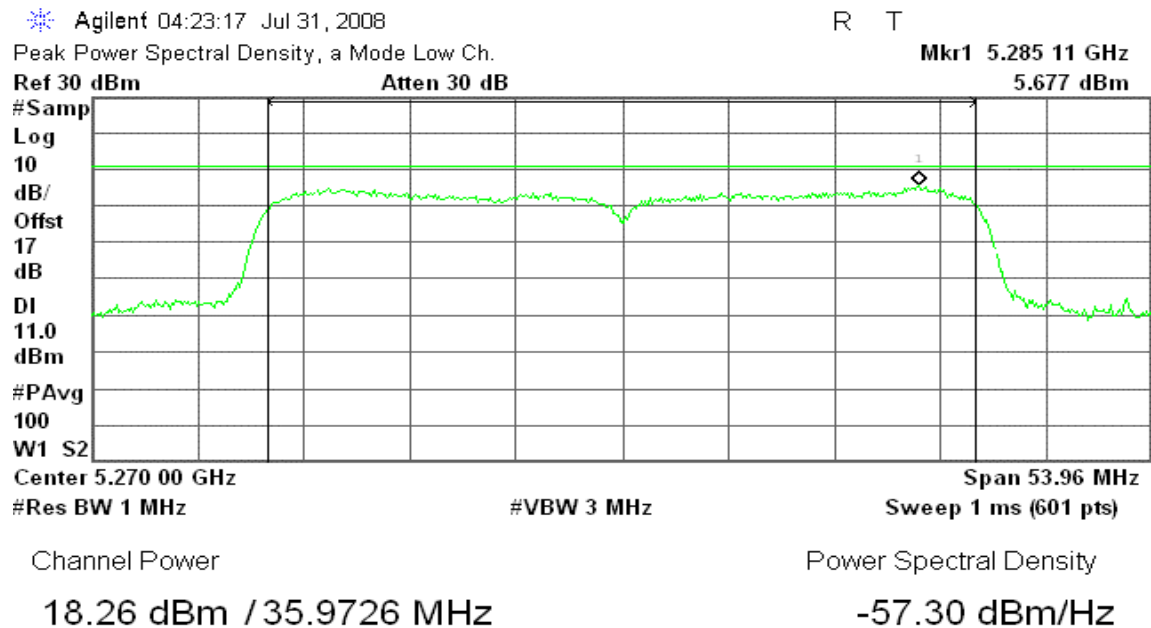
-55.09 dBm/Hz



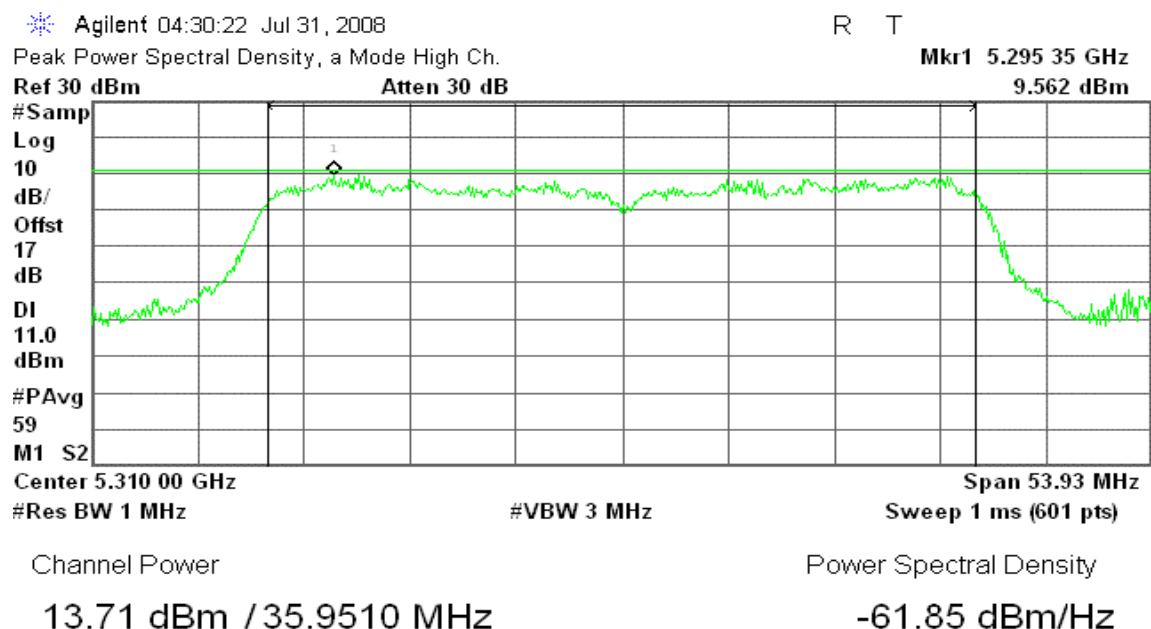


Test mode: draft 802.11n Wide-40 MHz Channel mode with combiner:

CH Low



CH High



**Test mode: IEEE 802.11a mode / 5500 ~ 5700MHz****CH Low**

Agilent 19:50:28 Jul 29, 2008

R T

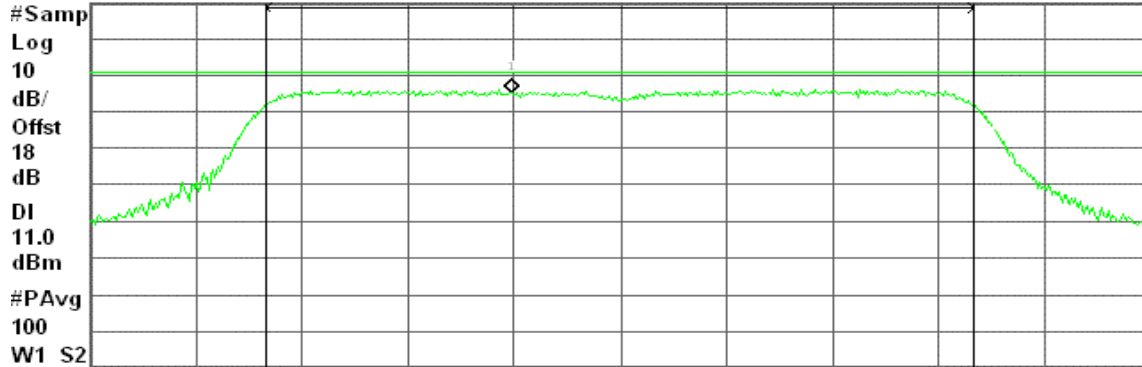
Peak Power Spectral Density, a Mode Low Ch.

Mkr1 5.497 46 GHz

Ref 30 dBm

Atten 30 dB

5.146 dBm



Channel Power

Power Spectral Density

16.83 dBm / 16.6780 MHz

-55.39 dBm/Hz

CH Mid

Agilent 20:24:40 Jul 29, 2008

R T

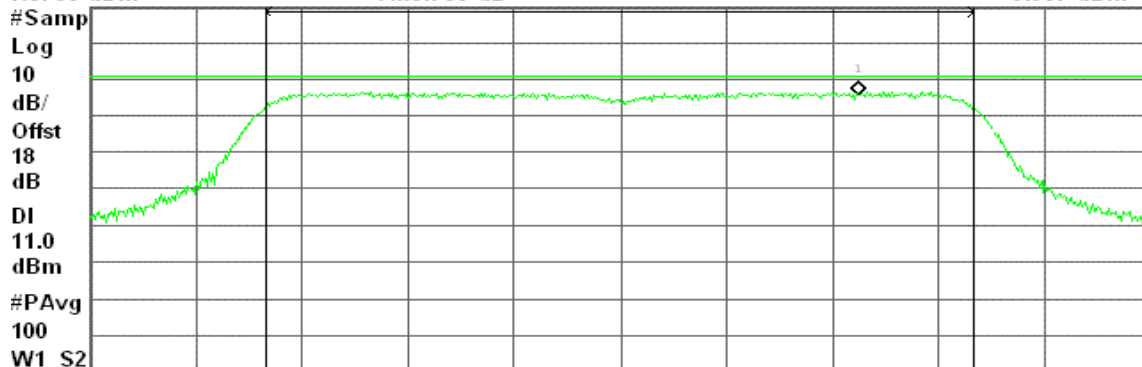
Peak Power Spectral Density, a Mode Mid Ch.

Mkr1 5.605 62 GHz

Ref 30 dBm

Atten 30 dB

5.967 dBm



Channel Power

Power Spectral Density

17.41 dBm / 16.6440 MHz

-54.80 dBm/Hz

**CH High**

* Agilent 20:31:59 Jul 29, 2008

R T

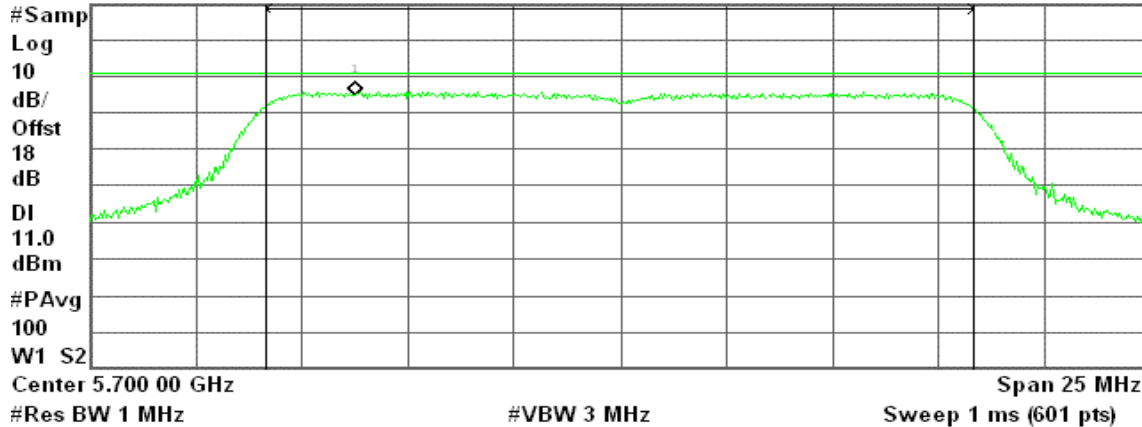
Peak Power Spectral Density, a Mode High Ch.

Mkr1 5.693 75 GHz

Ref 30 dBm

Atten 30 dB

4.996 dBm



Channel Power

Power Spectral Density

16.86 dBm / 16.6690 MHz

-55.36 dBm/Hz

draft 802.11n Standard-20 MHz Channel mode / 5500 ~ 5700MHz / Chain 0**CH Low**

* Agilent 22:08:21 Jul 30, 2008

R T

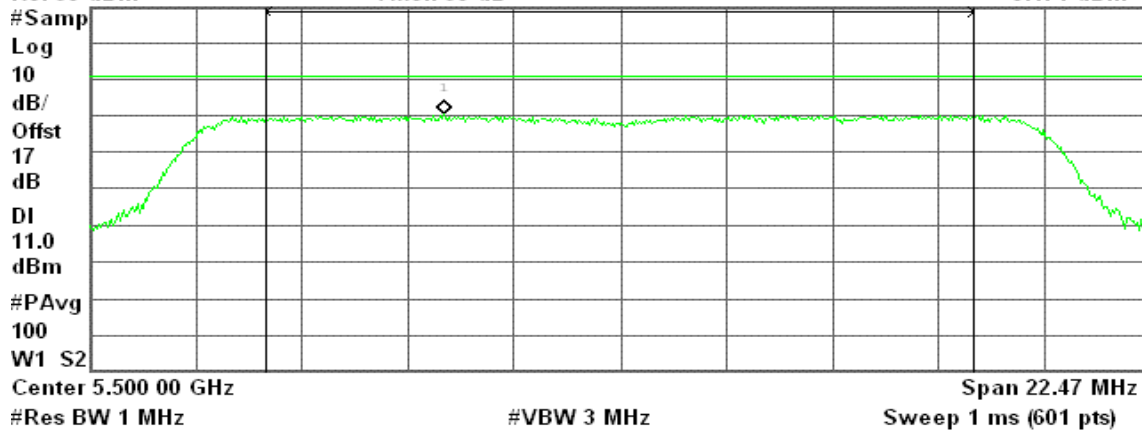
Peak Power Spectral Density, a Mode Low Ch.

Mkr1 5.496 29 GHz

Ref 30 dBm

Atten 30 dB

0.474 dBm



Channel Power

Power Spectral Density

11.01 dBm / 14.9800 MHz

-60.75 dBm/Hz



CH Mid

* Agilent 22:19:48 Jul 30, 2008

R T

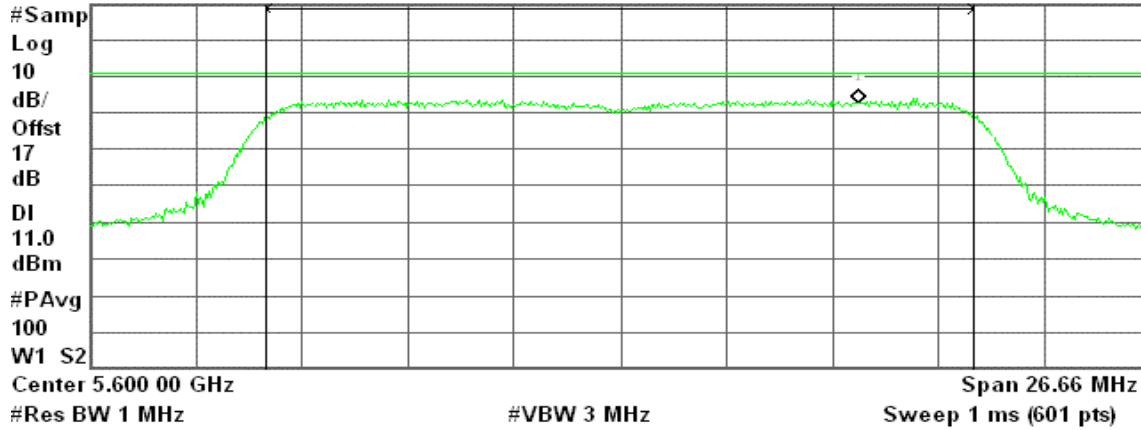
Peak Power Spectral Density, a Mode Mid Ch.

Mkr1 5.606 00 GHz

Ref 30 dBm

Atten 30 dB

2.645 dBm



Channel Power

Power Spectral Density

14.82 dBm / 17.7700 MHz

-57.68 dBm/Hz

CH High

* Agilent 22:26:33 Jul 30, 2008

R T

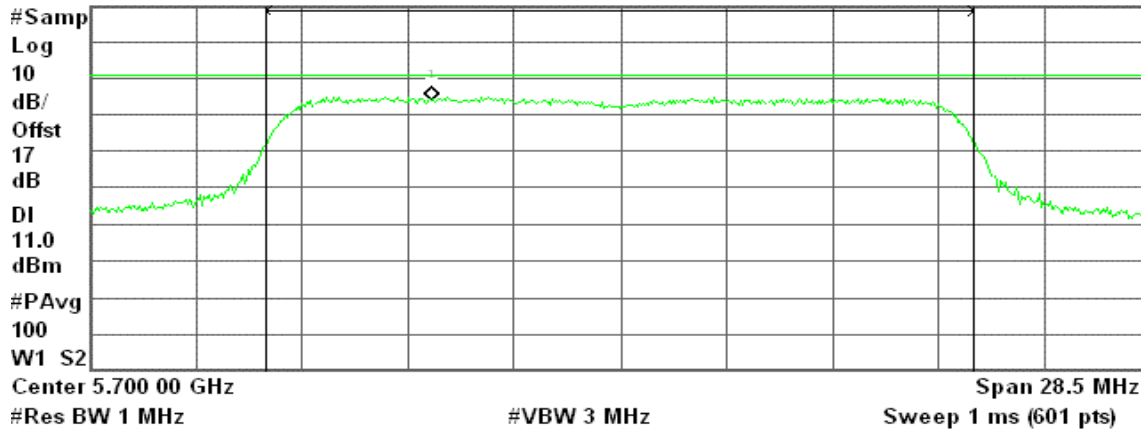
Peak Power Spectral Density, a Mode High Ch.

Mkr1 5.694 96 GHz

Ref 30 dBm

Atten 30 dB

3.918 dBm



Channel Power

Power Spectral Density

16.19 dBm / 19.0000 MHz

-56.60 dBm/Hz

**draft 802.11n Standard-20 MHz Channel mode / 5500 ~ 5700MHz / Chain 1****CH Low**

* Agilent 22:55:17 Jul 30, 2008

R T

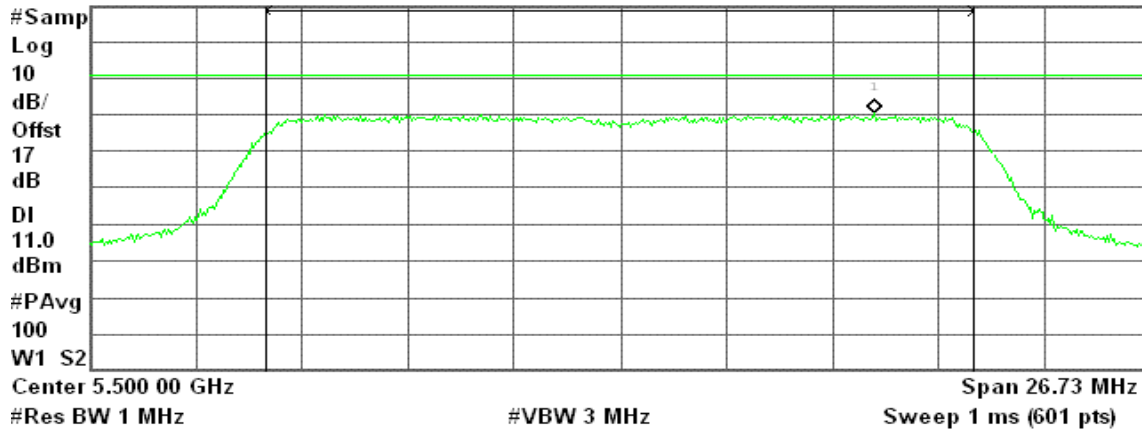
Peak Power Spectral Density, a Mode Low Ch.

Mkr1 5.506 42 GHz

Ref 30 dBm

Atten 30 dB

0.419 dBm



Channel Power

Power Spectral Density

11.22 dBm / 17.8226 MHz

-61.29 dBm/Hz

CH Mid

* Agilent 23:03:13 Jul 30, 2008

R T

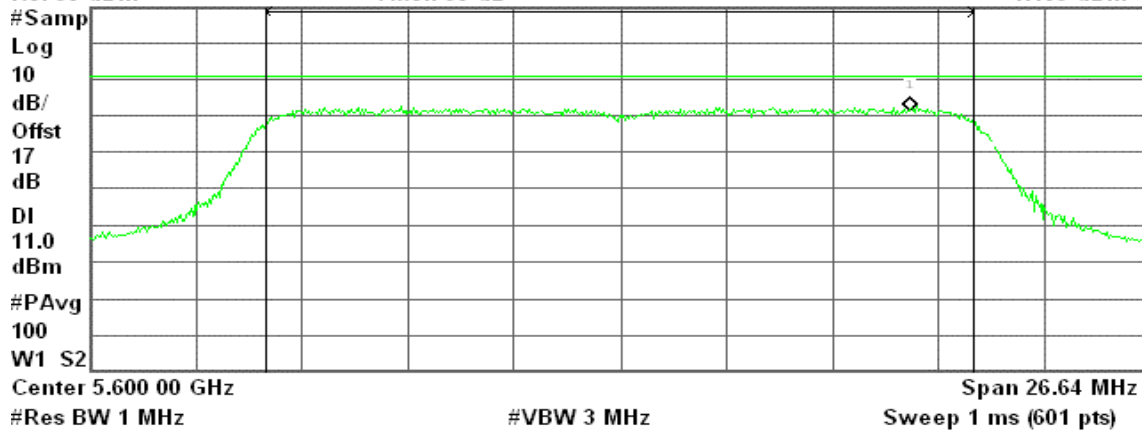
Peak Power Spectral Density, a Mode Mid Ch.

Mkr1 5.607 28 GHz

Ref 30 dBm

Atten 30 dB

1.463 dBm



Channel Power

Power Spectral Density

13.59 dBm / 17.7593 MHz

-58.91 dBm/Hz



CH High

Agilent 23:10:46 Jul 30, 2008

R T

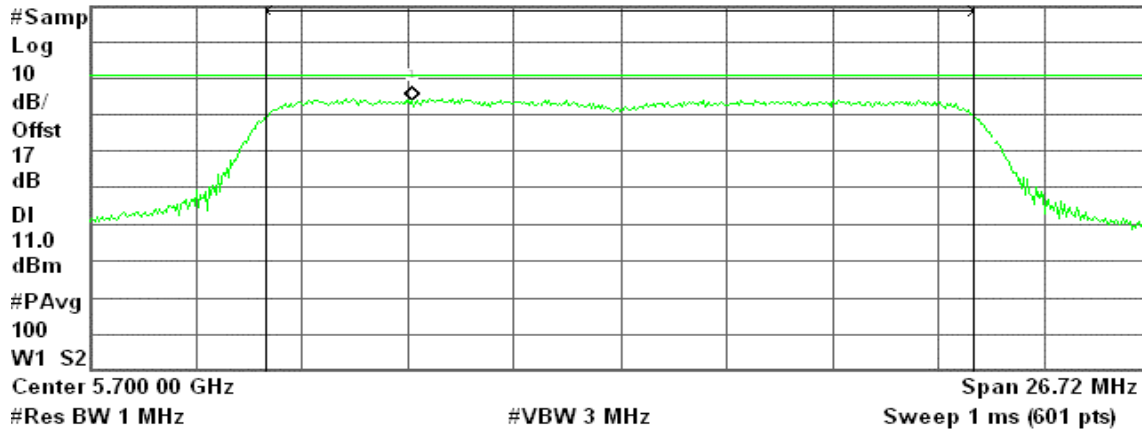
Peak Power Spectral Density, a Mode High Ch.

Mkr1 5.694 79 GHz

Ref 30 dBm

Atten 30 dB

3.974 dBm



Channel Power

Power Spectral Density

15.74 dBm / 17.8110 MHz

-56.77 dBm/Hz

draft 802.11n Standard-20 MHz Channel mode / 5500 ~ 5700MHz / Chain 2

CH Low

Agilent 23:18:12 Jul 30, 2008

R T

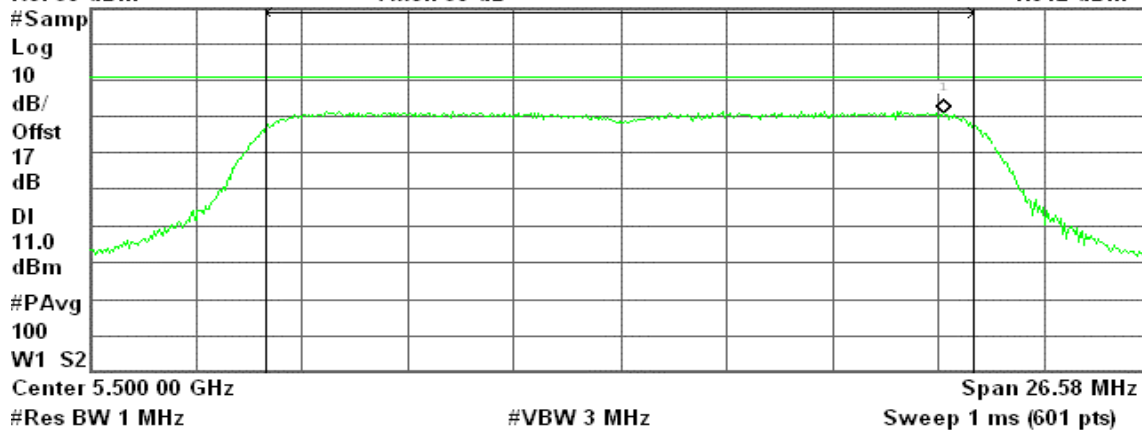
Peak Power Spectral Density, a Mode Low Ch.

Mkr1 5.508 11 GHz

Ref 30 dBm

Atten 30 dB

1.042 dBm



Channel Power

Power Spectral Density

12.81 dBm / 17.7185 MHz

-59.67 dBm/Hz



CH Mid

Agilent 23:33:30 Jul 30, 2008

R T

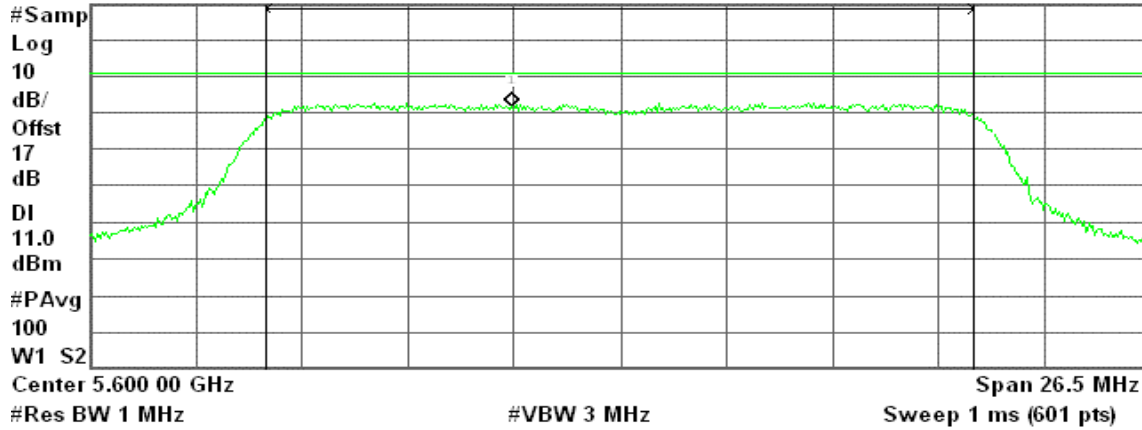
Peak Power Spectral Density, a Mode Mid Ch.

Mkr1 5.597 31 GHz

Ref 30 dBm

Atten 30 dB

1.792 dBm



Channel Power

Power Spectral Density

14.02 dBm / 17.6643 MHz

-58.45 dBm/Hz

CH High

Agilent 23:39:01 Jul 30, 2008

R T

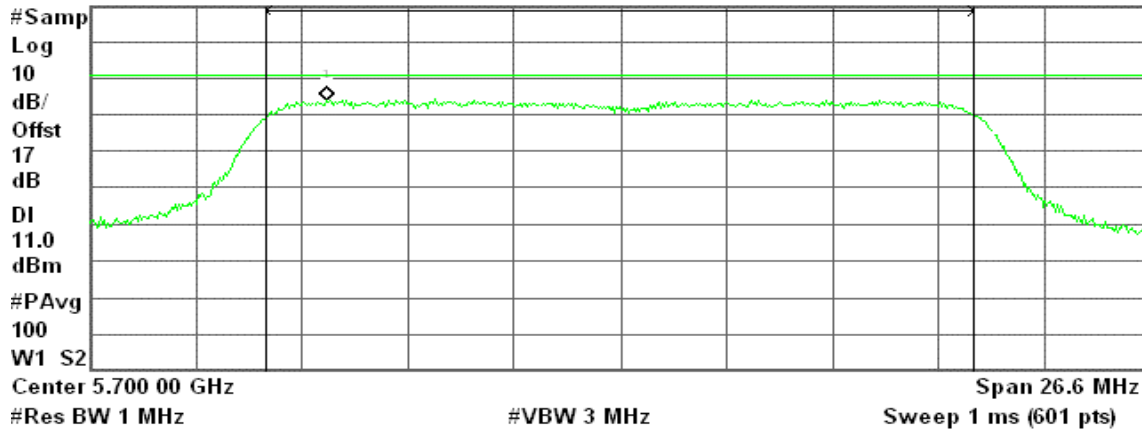
Peak Power Spectral Density, a Mode High Ch.

Mkr1 5.692 64 GHz

Ref 30 dBm

Atten 30 dB

4.180 dBm

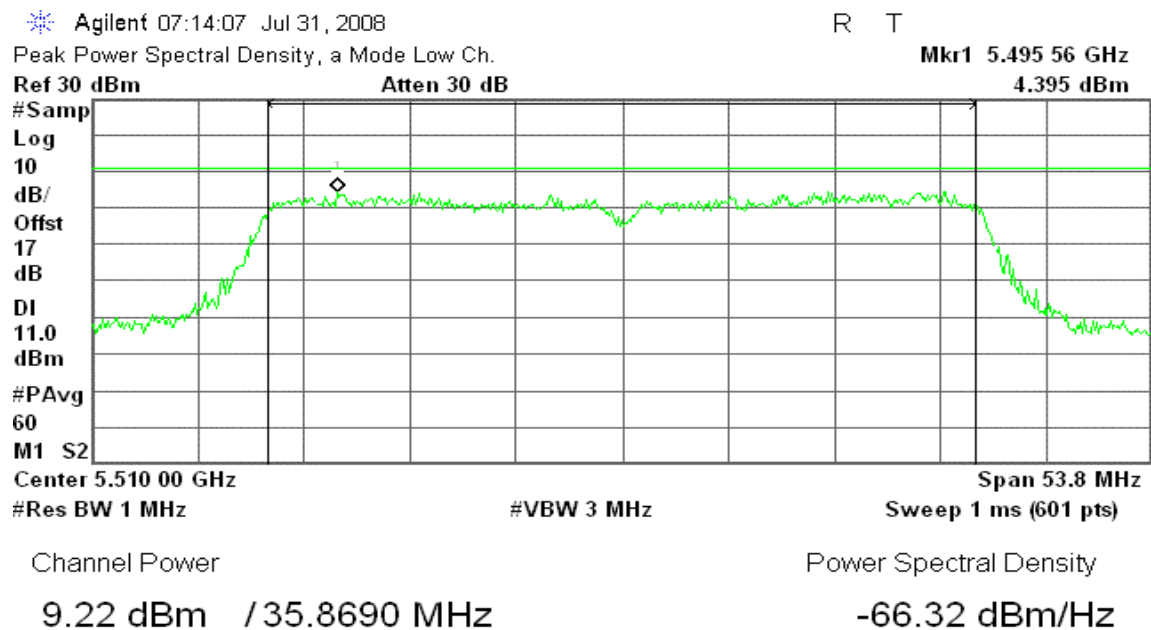
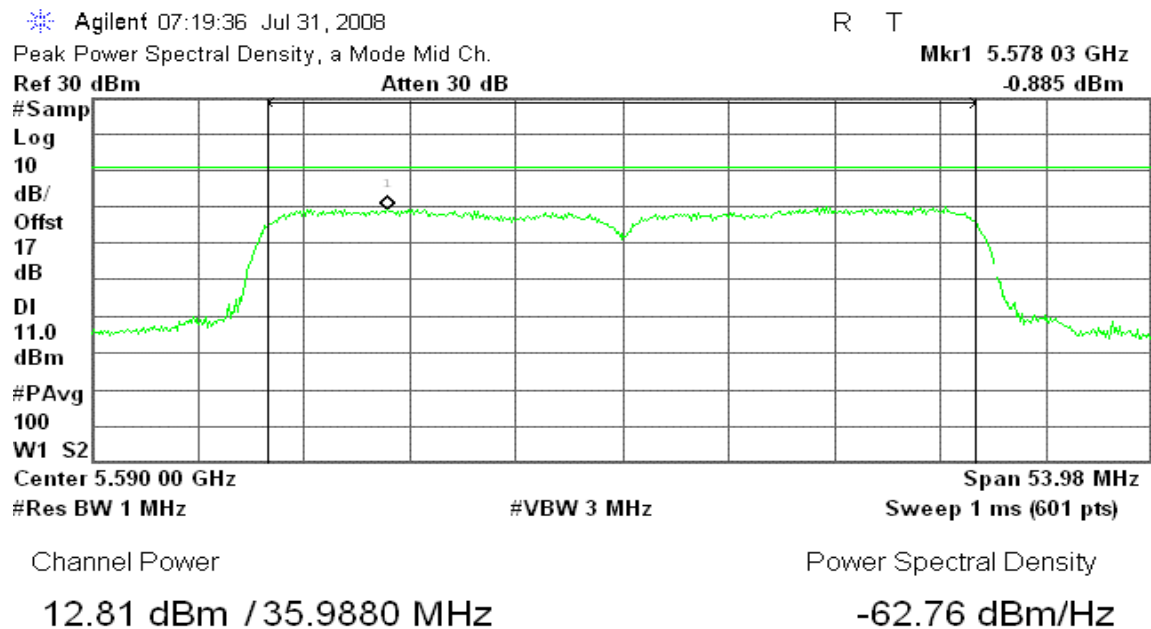


Channel Power

Power Spectral Density

15.11 dBm / 17.7337 MHz

-57.38 dBm/Hz

**draft 802.11n Wide-40 MHz Channel mode / 5510 ~ 5670MHz / Chain 0****CH Low****CH Mid**

**CH High**

* Agilent 07:33:19 Jul 31, 2008

R T

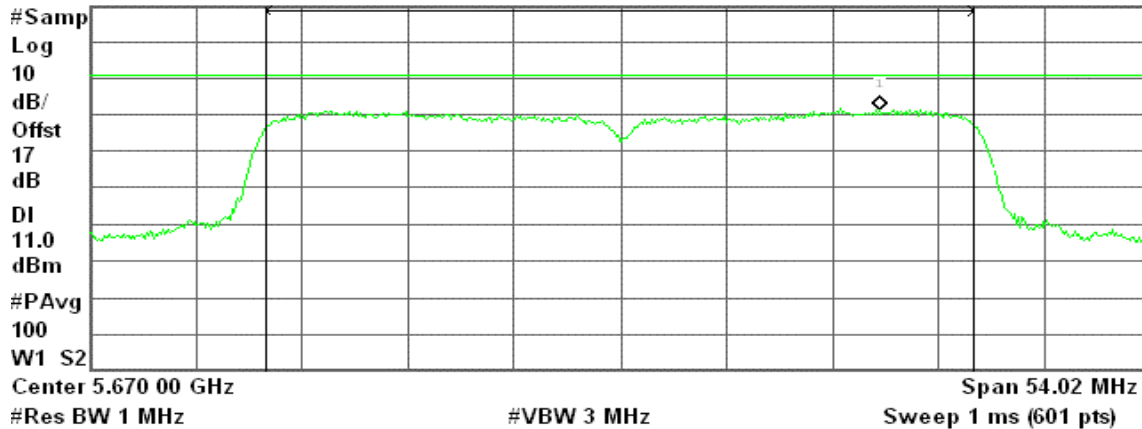
Peak Power Spectral Density, a Mode High Ch.

Mkr1 5.683 24 GHz

Ref 30 dBm

Atten 30 dB

1.478 dBm



Channel Power

Power Spectral Density

14.79 dBm / 36.0150 MHz

-60.78 dBm/Hz

draft 802.11n Wide-40 MHz Channel mode / 5510 ~ 5670MHz / Chain 1**CH Low**

* Agilent 07:42:42 Jul 31, 2008

R T

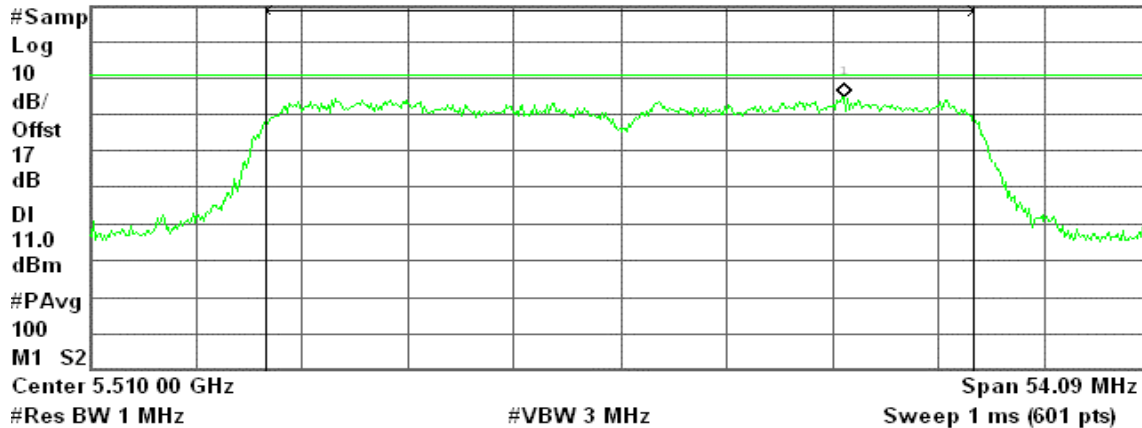
Peak Power Spectral Density, a Mode Low Ch.

Mkr1 5.521 45 GHz

Ref 30 dBm

Atten 30 dB

5.082 dBm



Channel Power

Power Spectral Density

9.25 dBm / 36.0621 MHz

-66.32 dBm/Hz



CH Mid

* Agilent 07:50:32 Jul 31, 2008

R T

Peak Power Spectral Density, a Mode Mid Ch.

Mkr1 5.578 72 GHz

Ref 30 dBm

Atten 30 dB

-1.056 dBm

#Samp

Log

10

dB/

Offst

17

dB

DI

11.0

dBm

#PAvg

100

W1 S2

Center 5.590 00 GHz

Span 54.12 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 1 ms (601 pts)

Channel Power

Power Spectral Density

12.41 dBm / 36.0825 MHz

-63.16 dBm/Hz

CH High

* Agilent 07:58:08 Jul 31, 2008

R T

Peak Power Spectral Density, a Mode High Ch.

Mkr1 5.655 40 GHz

Ref 30 dBm

Atten 30 dB

-0.298 dBm

#Samp

Log

10

dB/

Offst

17

dB

DI

11.0

dBm

#PAvg

100

W1 S2

Center 5.670 00 GHz

Span 54.08 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 1 ms (601 pts)

Channel Power

Power Spectral Density

12.54 dBm / 36.0509 MHz

-63.03 dBm/Hz

**draft 802.11n Wide-40 MHz Channel mode / 5510 ~ 5670MHz / Chain 2****CH Low**

Agilent 08:05:33 Jul 31, 2008

R T

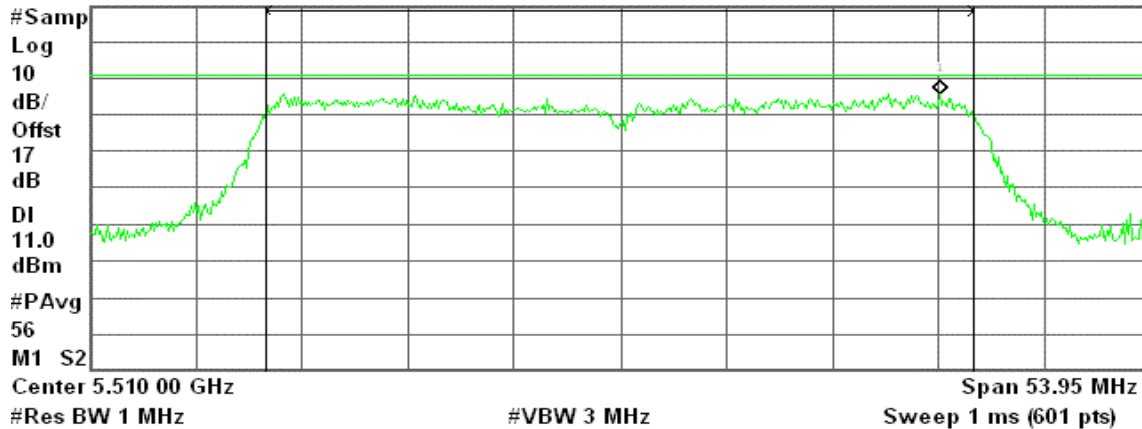
Peak Power Spectral Density, a Mode Low Ch.

Mkr1 5.526 27 GHz

Ref 30 dBm

Atten 30 dB

5.629 dBm



Channel Power

Power Spectral Density

9.85 dBm / 35.9660 MHz

-65.71 dBm/Hz

CH Mid

Agilent 08:11:34 Jul 31, 2008

R T

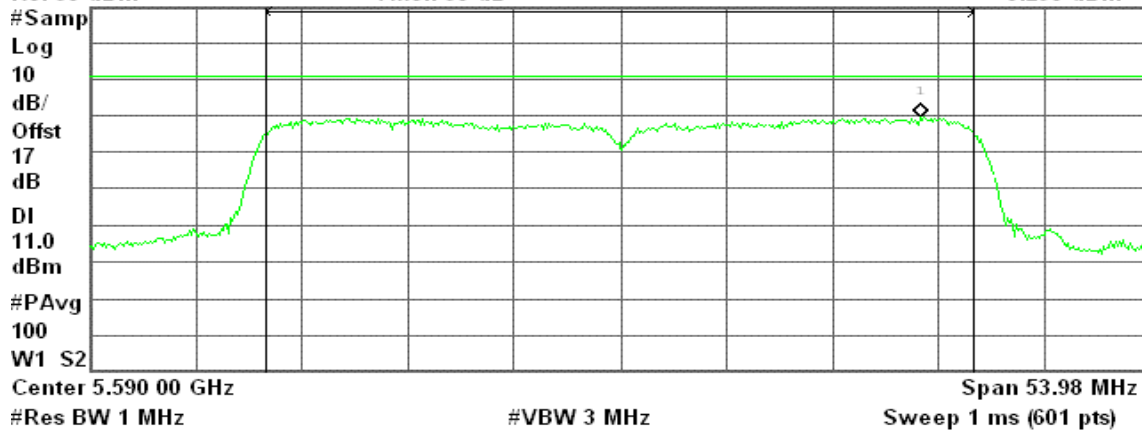
Peak Power Spectral Density, a Mode Mid Ch.

Mkr1 5.605 29 GHz

Ref 30 dBm

Atten 30 dB

-0.290 dBm



Channel Power

Power Spectral Density

12.68 dBm / 35.9850 MHz

-62.88 dBm/Hz

**CH High**

* Agilent 08:18:16 Jul 31, 2008

R T

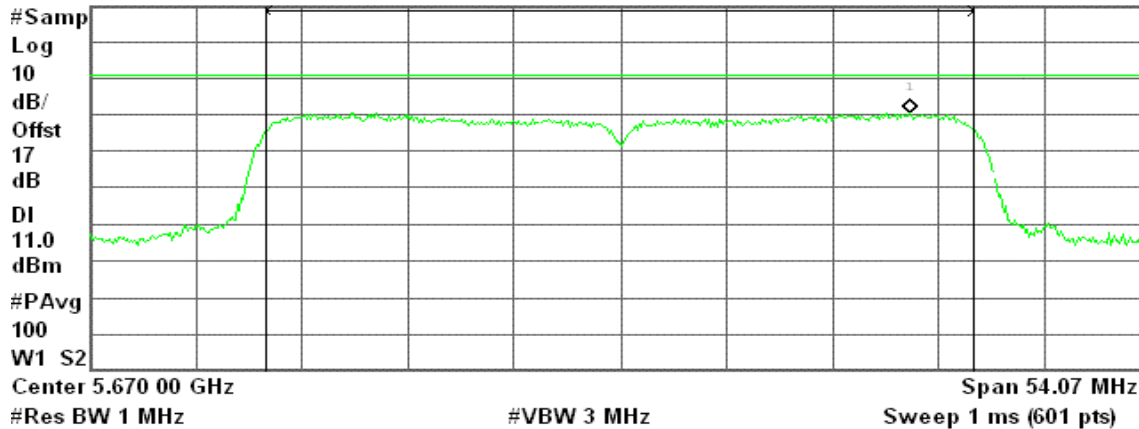
Peak Power Spectral Density, a Mode High Ch.

Mkr1 5.684 78 GHz

Ref 30 dBm

Atten 30 dB

0.562 dBm



Channel Power

Power Spectral Density

13.66 dBm / 36.0462 MHz

-61.91 dBm/Hz

Test mode: draft 802.11n Standard-20 MHz Channel mode / 5500 ~ 5700MHz with combiner:**CH Low**

* Agilent 21:31:43 Jul 30, 2008

R T

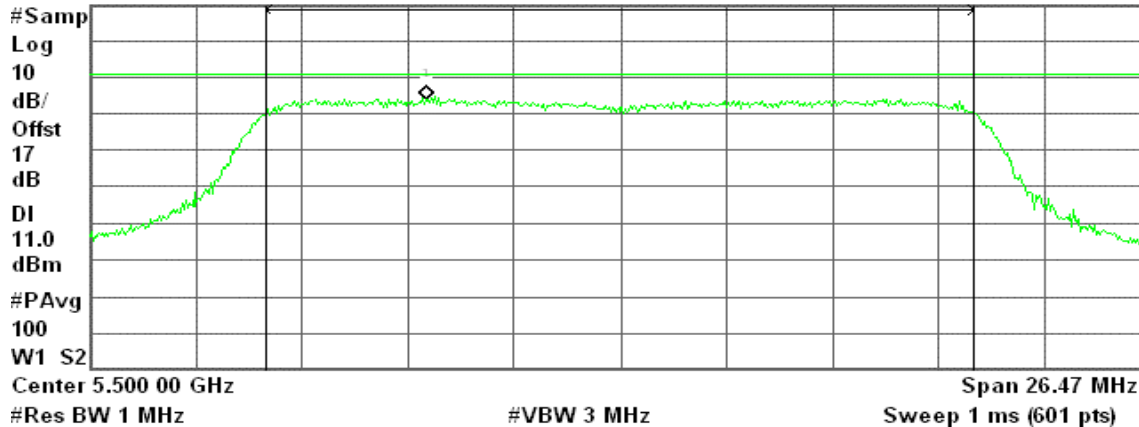
Peak Power Spectral Density, a Mode Low Ch.

Mkr1 5.495 19 GHz

Ref 30 dBm

Atten 30 dB

3.893 dBm



Channel Power

Power Spectral Density

15.53 dBm / 17.6470 MHz

-56.93 dBm/Hz



CH Mid

* Agilent 21:45:27 Jul 30, 2008

R T

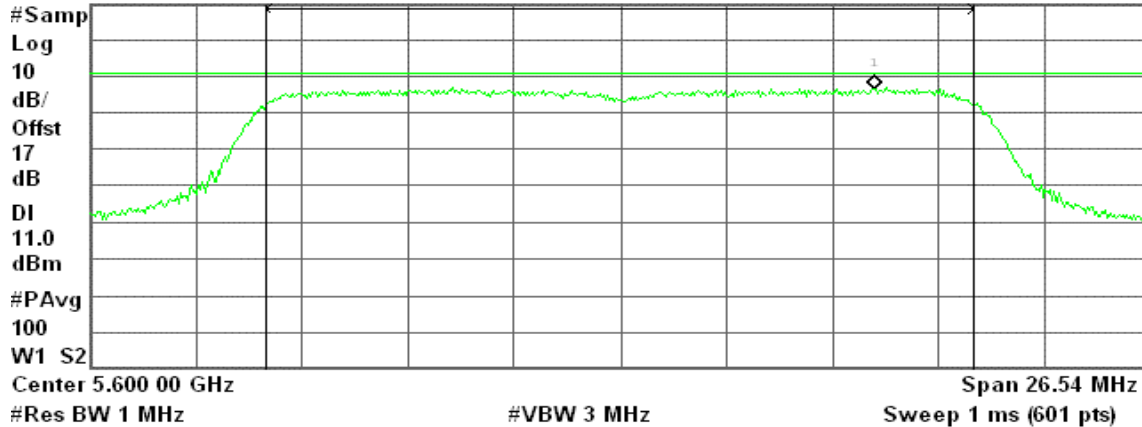
Peak Power Spectral Density, a Mode Mid Ch.

Mkr1 5.606 37 GHz

Ref 30 dBm

Atten 30 dB

6.544 dBm



Channel Power

Power Spectral Density

17.88 dBm / 17.6963 MHz

-54.60 dBm/Hz

CH High

* Agilent 21:51:43 Jul 30, 2008

R T

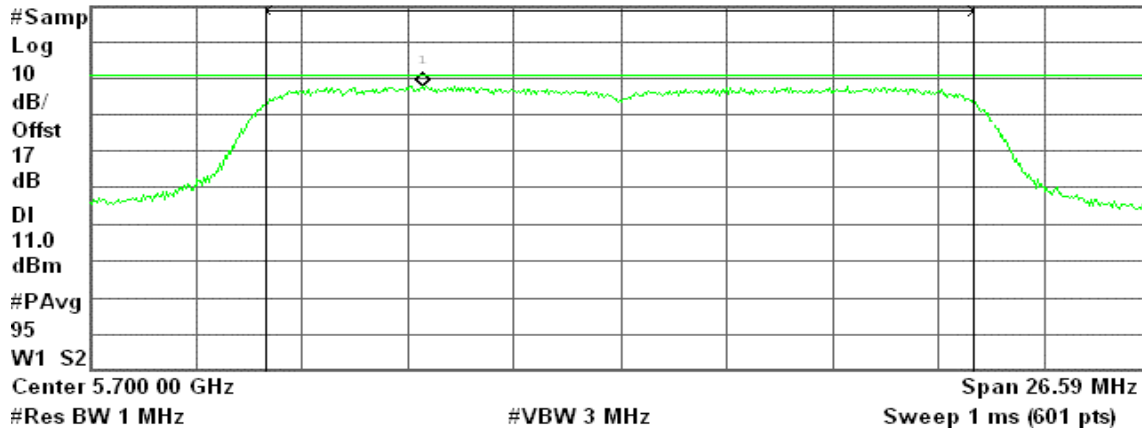
Peak Power Spectral Density, a Mode High Ch.

Mkr1 5.695 08 GHz

Ref 30 dBm

Atten 30 dB

8.030 dBm



Channel Power

Power Spectral Density

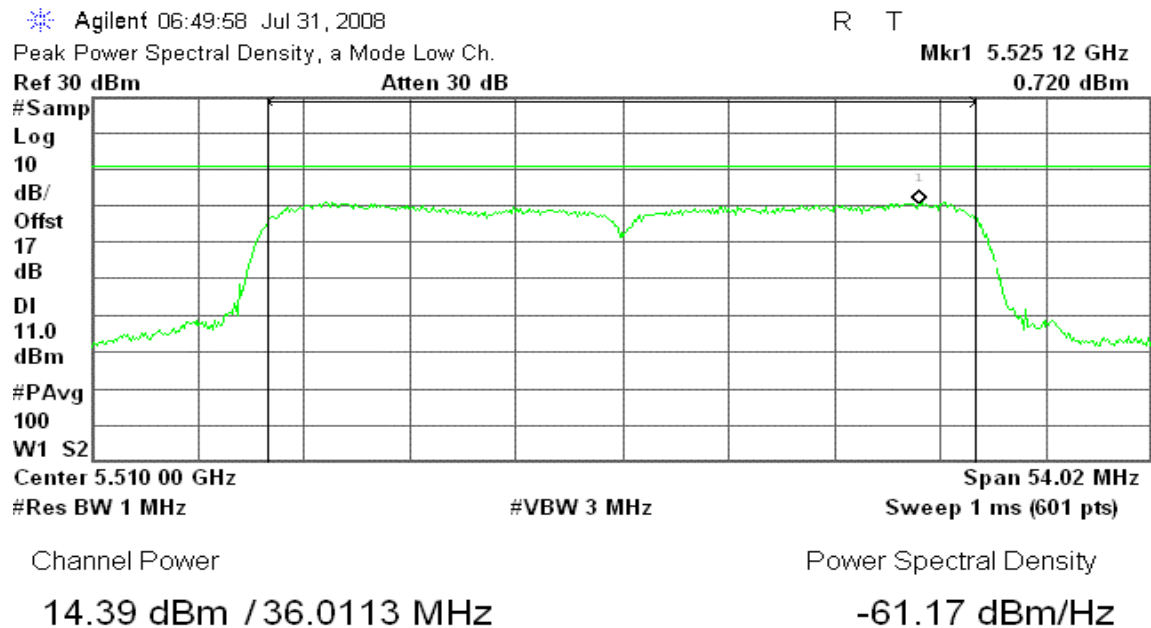
18.60 dBm / 17.7284 MHz

-53.89 dBm/Hz

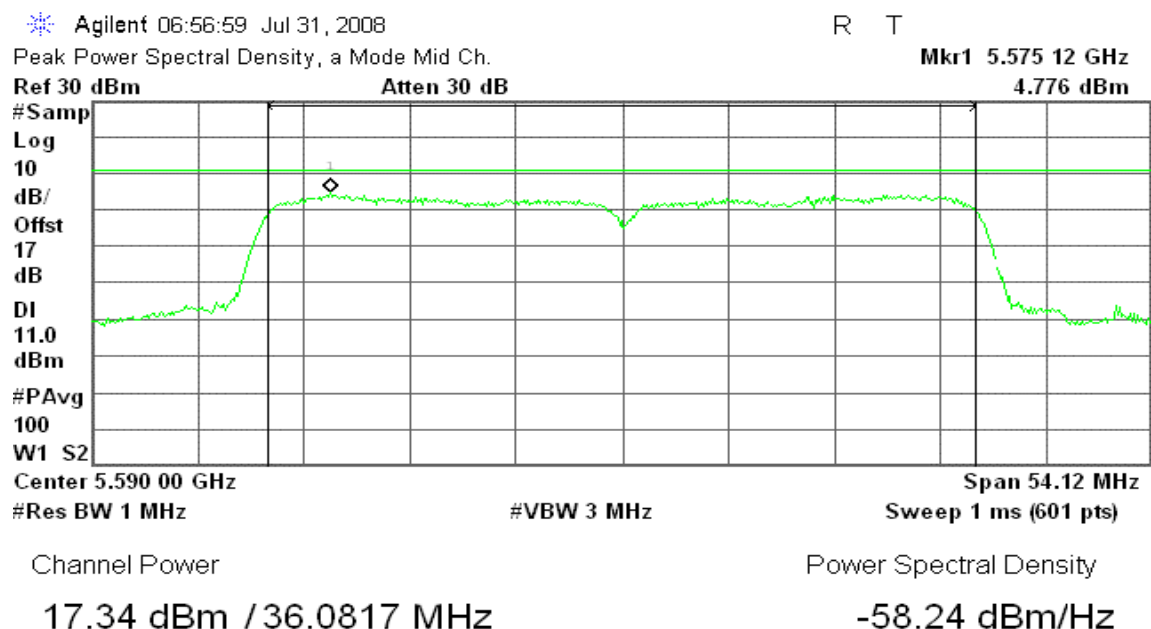


Test mode: draft 802.11n Wide-40 MHz Channel mode / 5510 ~ 5670MHz with combiner:

CH Low



CH Mid





CH High

Agilent 07:04:32 Jul 31, 2008

R T

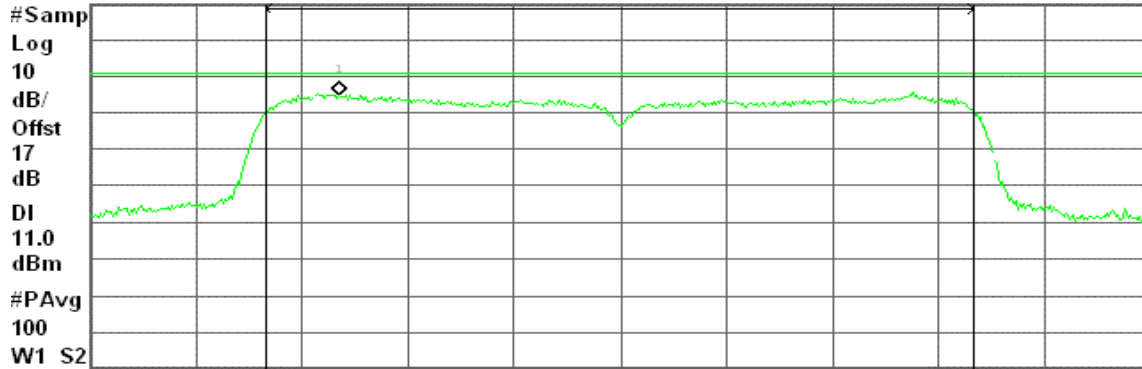
Peak Power Spectral Density, a Mode High Ch.

Mkr1 5.655 70 GHz

Ref 30 dBm

Atten 30 dB

5.086 dBm



Center 5.670 00 GHz

Span 53.95 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 1 ms (601 pts)

Channel Power

Power Spectral Density

18.01 dBm / 35.9670 MHz

-57.55 dBm/Hz

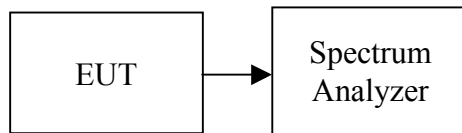


7.5 PEAK EXCURSION

LIMIT

According to §15.407(a)(6), the ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the maximum conducted output power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

Test Configuration



TEST PROCEDURE

The test is performed in accordance with <FCC Public Notice: APPENDIX A Guidelines for Assessing Unlicensed National Information Infrastructure (U-NII) Devices> – Part 15, Subpart E, August 2002.

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to spectrum.
3. Trace A, Set RBW = 1MHz, VBW = 3MHz, Span >26dB bandwidth, Max. hold.
4. Delta Mark trace A Maximum frequency and trace B same frequency.
5. Repeat the above procedure until measurements for all frequencies were complete.

TEST RESULTS

No non-compliance noted

**Test Data****Test mode: IEEE 802.11a mode / 5180 ~ 5240MHz**

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5180	2.42	13.00	-10.58	PASS
Mid	5220	1.78	13.00	-11.22	PASS
High	5240	1.88	13.00	-11.12	PASS

Test mode: draft 802.11n Standard-20 MHz Channel mode / 5180 ~ 5240MHz / Chain 0

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5180	2.31	13.00	-10.69	PASS
Mid	5220	3.29	13.00	-9.71	PASS
High	5240	4.14	13.00	-8.86	PASS

Test mode: draft 802.11n Standard-20 MHz Channel mode / 5180 ~ 5240MHz / Chain 1

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5180	4.88	13.00	-8.12	PASS
Mid	5220	3.75	13.00	-9.25	PASS
High	5240	3.49	13.00	-9.51	PASS

Test mode: draft 802.11n Standard-20 MHz Channel mode / 5180 ~ 5240MHz / Chain 2

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5180	1.62	13.00	-11.38	PASS
Mid	5220	3.25	13.00	-9.75	PASS
High	5240	3.16	13.00	-9.84	PASS

Test mode: draft 802.11n Wide-40 MHz Channel mode / 5190 ~ 5230MHz / Chain 0

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5190	3.29	13.00	-9.71	PASS
High	5230	3.57	13.00	-9.43	PASS

Test mode: draft 802.11n Wide-40 MHz Channel mode / 5190 ~ 5230MHz / Chain 1

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5190	6.96	13.00	-6.04	PASS
High	5230	4.12	13.00	-8.88	PASS

**Test mode: draft 802.11n Wide-40 MHz Channel mode / 5190 ~ 5230MHz / Chain 2**

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5190	4.44	13.00	-8.56	PASS
High	5230	3.19	13.00	-9.81	PASS

Test mode: IEEE 802.11a mode / 5260 ~ 5320MHz

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5260	2.01	13.00	-10.99	PASS
Mid	5280	2.43	13.00	-10.57	PASS
High	5320	2.29	13.00	-10.71	PASS

Test mode: draft 802.11n Standard-20 MHz Channel mode / 5260 ~ 5320MHz / Chain 0

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5260	3.26	13.00	-9.74	PASS
Mid	5280	2.23	13.00	-10.77	PASS
High	5320	0.03	13.00	-12.97	PASS

Test mode: draft 802.11n Standard-20 MHz Channel mode / 5260 ~ 5320MHz / Chain 1

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5260	3.70	13.00	-9.30	PASS
Mid	5280	3.00	13.00	-10.00	PASS
High	5320	3.94	13.00	-9.06	PASS

Test mode: draft 802.11n Standard-20 MHz Channel mode / 5260 ~ 5320MHz / Chain 2

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5260	4.96	13.00	-8.04	PASS
Mid	5280	4.97	13.00	-8.03	PASS
High	5320	3.78	13.00	-9.22	PASS

Test mode: draft 802.11n Wide-40 MHz Channel mode / 5270 ~ 5310MHz / Chain 0

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5270	3.85	13.00	-9.15	PASS
High	5310	2.78	13.00	-10.22	PASS

**Test mode: draft 802.11n Wide-40 MHz Channel mode / 5270 ~ 5310MHz / Chain 1**

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5270	4.92	13.00	-8.08	PASS
High	5310	3.44	13.00	-9.56	PASS

Test mode: draft 802.11n Wide-40 MHz Channel mode / 5270 ~ 5310MHz / Chain 2

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5270	3.18	13.00	-9.82	PASS
High	5310	2.71	13.00	-10.29	PASS

Test mode: IEEE 802.11a mode / 5500 ~ 5700MHz

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5500	0.80	13.00	-12.20	PASS
Mid	5600	3.53	13.00	-9.47	PASS
High	5700	3.03	13.00	-9.97	PASS

Test mode: draft 802.11n Standard-20 MHz Channel mode / 5500 ~ 5700MHz / Chain 0

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5500	5.08	13.00	-7.92	PASS
Mid	5600	4.55	13.00	-8.45	PASS
High	5700	4.26	13.00	-8.74	PASS

Test mode: draft 802.11n Standard-20 MHz Channel mode / 5500 ~ 5700MHz / Chain 1

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5500	2.32	13.00	-10.68	PASS
Mid	5600	2.13	13.00	-10.87	PASS
High	5700	4.59	13.00	-8.41	PASS

**Test mode: draft 802.11n Standard-20 MHz Channel mode / 5500 ~ 5700MHz / Chain 2**

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5500	3.75	13.00	-9.25	PASS
Mid	5600	3.10	13.00	-9.90	PASS
High	5700	5.09	13.00	-7.91	PASS

Test mode: draft 802.11n Wide-40 MHz Channel mode / 5510 ~ 5670MHz / Chain 0

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5510	4.37	13.00	-8.63	PASS
Mid	5590	4.14	13.00	-8.86	PASS
High	5670	3.07	13.00	-9.93	PASS

Test mode: draft 802.11n Wide-40 MHz Channel mode / 5510 ~ 5670MHz / Chain 1

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5510	3.35	13.00	-9.65	PASS
Mid	5590	1.28	13.00	-11.72	PASS
High	5670	3.42	13.00	-9.58	PASS

Test mode: draft 802.11n Wide-40 MHz Channel mode / 5510 ~ 5670MHz / Chain 2

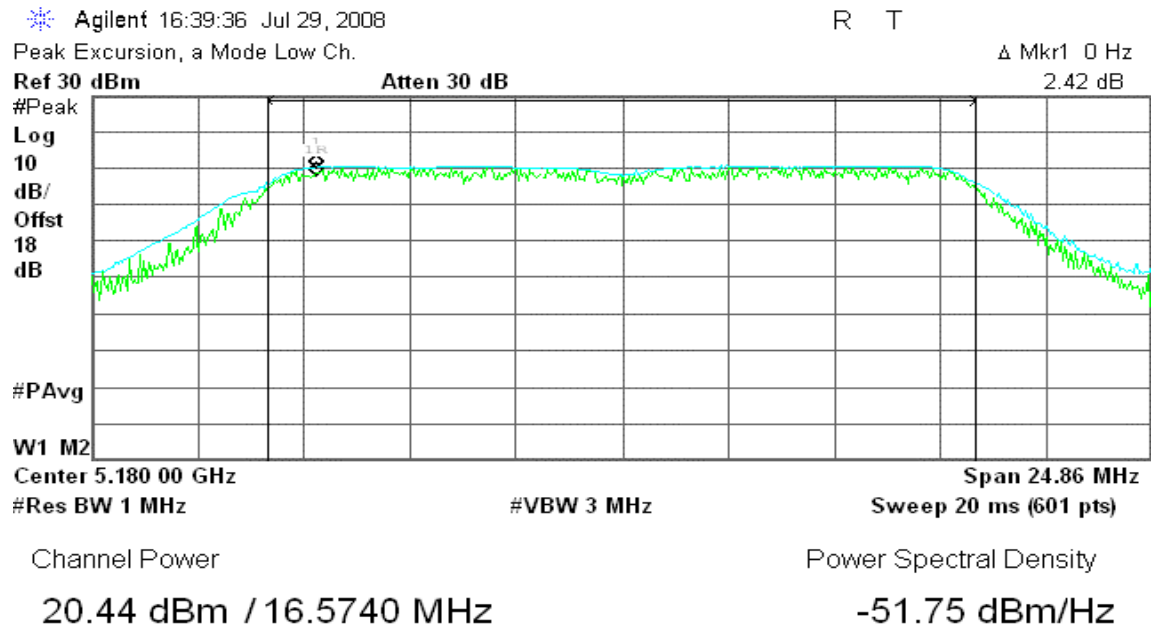
Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5510	4.61	13.00	-8.39	PASS
Mid	5590	3.70	13.00	-9.30	PASS
High	5670	3.23	13.00	-9.77	PASS



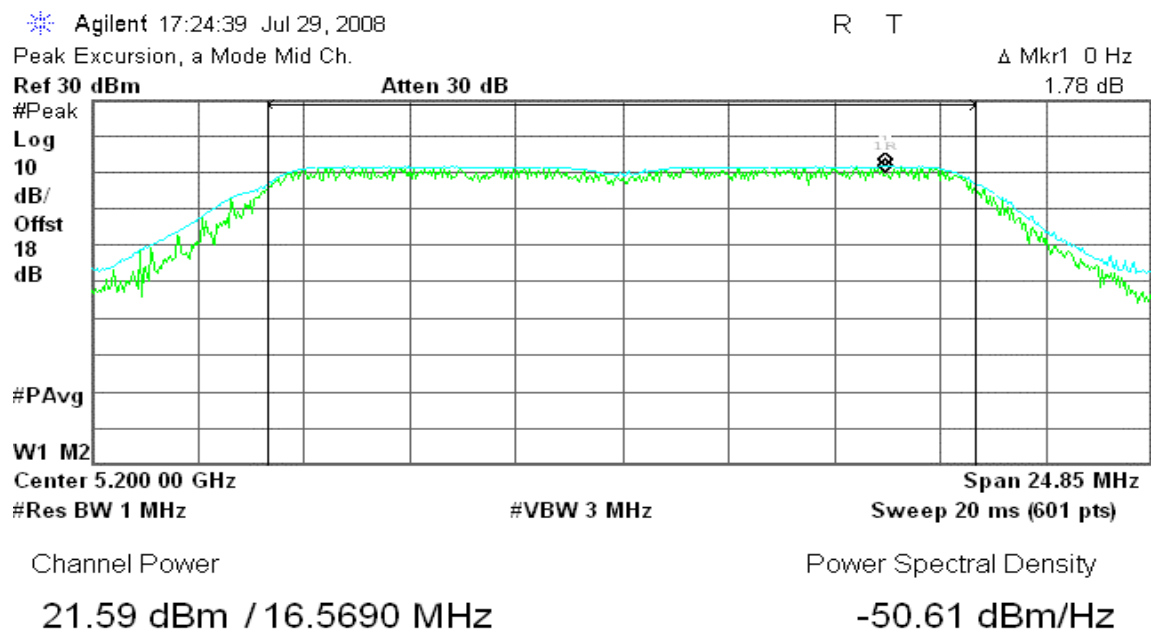
Test Plot

IEEE 802.11a mode / 5180 ~ 5240MHz

CH Low



CH Mid





CH High

Agilent 17:42:40 Jul 29, 2008

R T

Peak Excursion, a Mode High Ch.

Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

1.88 dB

#Peak

Log

10

dB/

Offst

18

dB

#PAvg

W1 M2

Center 5.240 00 GHz

Span 24.89 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

21.37 dBm / 16.5903 MHz

-50.83 dBm/Hz

draft 802.11n Standard-20 MHz Channel mode / 5180 ~ 5240MHz / Chain 0

CH Low

Agilent 19:02:55 Aug 4, 2008

R T

Peak Excursion, a Mode Low Ch.

Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

2.31 dB

#Peak

Log

10

dB/

Offst

17

dB

#PAvg

W1 M2

Center 5.180 00 GHz

Span 26.54 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

16.33 dBm / 17.6924 MHz

-56.14 dBm/Hz



CH Mid

Agilent 19:26:34 Aug 4, 2008

R T

Peak Excursion, a Mode Mid Ch.

Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

3.29 dB

#Peak

Log

10

dB/

Offst

17

dB

#PAvg

W1 M2

Center 5.200 00 GHz

Span 26.51 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

16.52 dBm / 17.6713 MHz

-55.95 dBm/Hz

CH High

Agilent 19:35:57 Aug 4, 2008

R T

Peak Excursion, a Mode High Ch.

Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

4.14 dB

#Peak

Log

10

dB/

Offst

17

dB

#PAvg

W1 M2

Center 5.240 00 GHz

Span 26.46 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

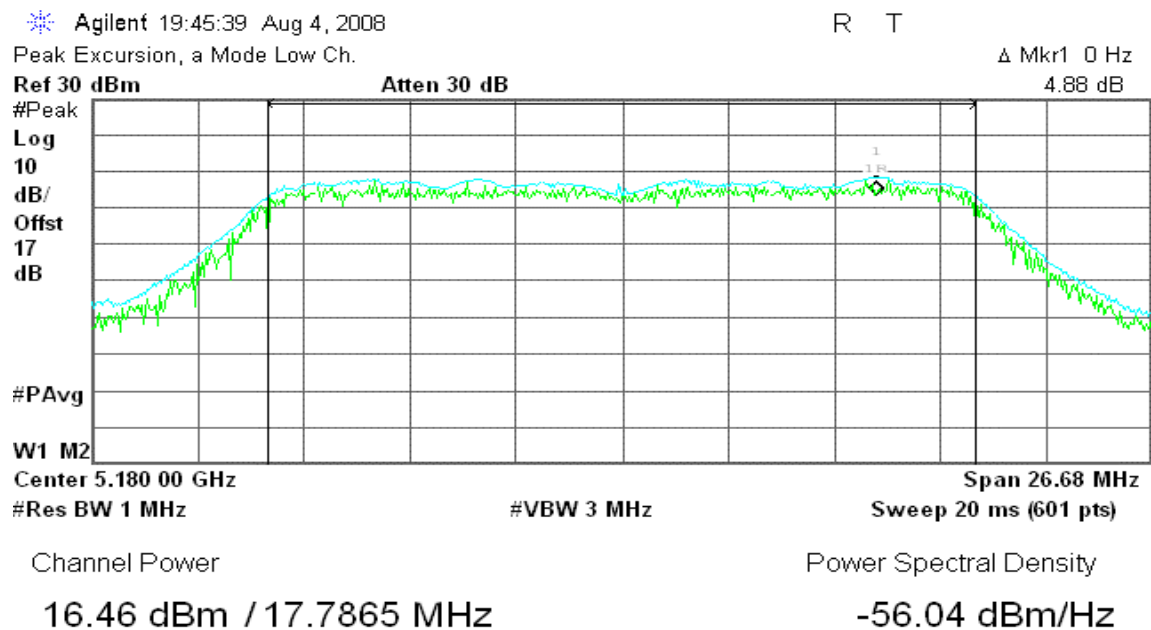
16.69 dBm / 17.6432 MHz

-55.78 dBm/Hz

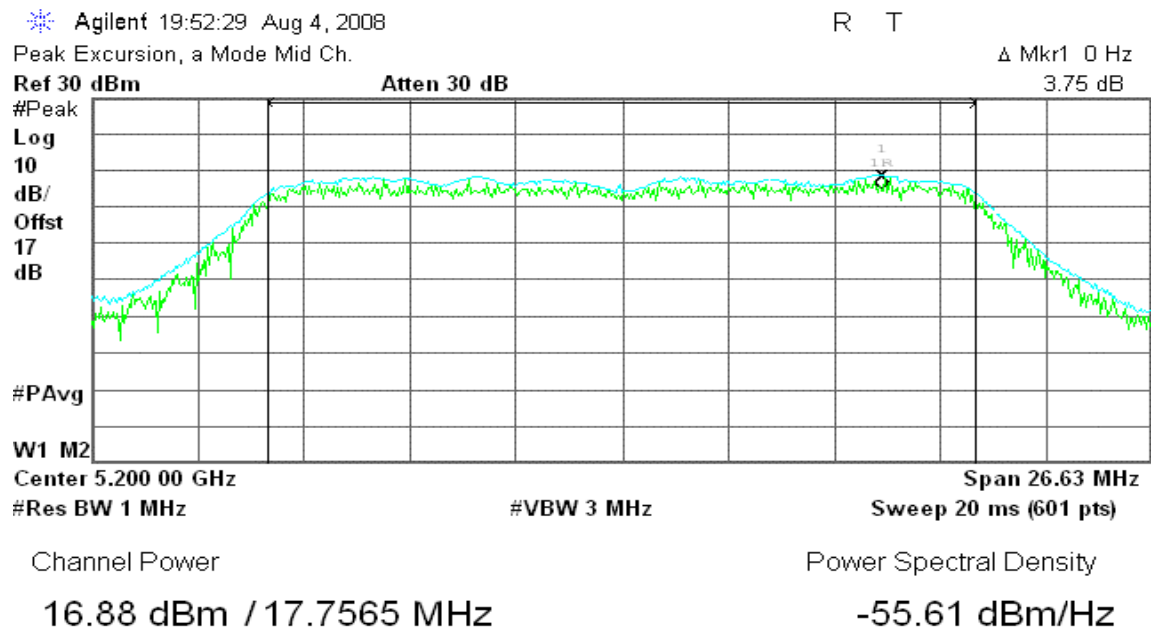


draft 802.11n Standard-20 MHz Channel mode / 5180 ~ 5240MHz / Chain 1

CH Low



CH Mid





CH High

Agilent 20:05:20 Aug 4, 2008

R T

Peak Excursion, a Mode High Ch.

Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

3.49 dB

#Peak

Log

10

dB/

Offst

17

dB

#PAvg

W1 M2

Center 5.240 00 GHz

Span 26.54 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

16.16 dBm / 17.6950 MHz

-56.32 dBm/Hz

draft 802.11n Standard-20 MHz Channel mode / 5180 ~ 5240MHz / Chain 2

CH Low

Agilent 20:14:29 Aug 4, 2008

R T

Peak Excursion, a Mode Low Ch.

Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

1.62 dB

#Peak

Log

10

dB/

Offst

17

dB

#PAvg

W1 M2

Center 5.180 00 GHz

Span 26.42 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

16.31 dBm / 17.6106 MHz

-56.14 dBm/Hz



CH Mid

Agilent 20:22:23 Aug 4, 2008

R T

Peak Excursion, a Mode Mid Ch.

Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

3.25 dB

#Peak

Log

10

dB/

Offst

17

dB

#PAvg

W1 M2

Center 5.200 00 GHz

Span 26.39 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

17.16 dBm / 17.5928 MHz

-55.29 dBm/Hz

CH High

Agilent 20:27:58 Aug 4, 2008

R T

Peak Excursion, a Mode High Ch.

Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

3.16 dB

#Peak

Log

10

dB/

Offst

17

dB

#PAvg

W1 M2

Center 5.240 00 GHz

Span 26.58 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

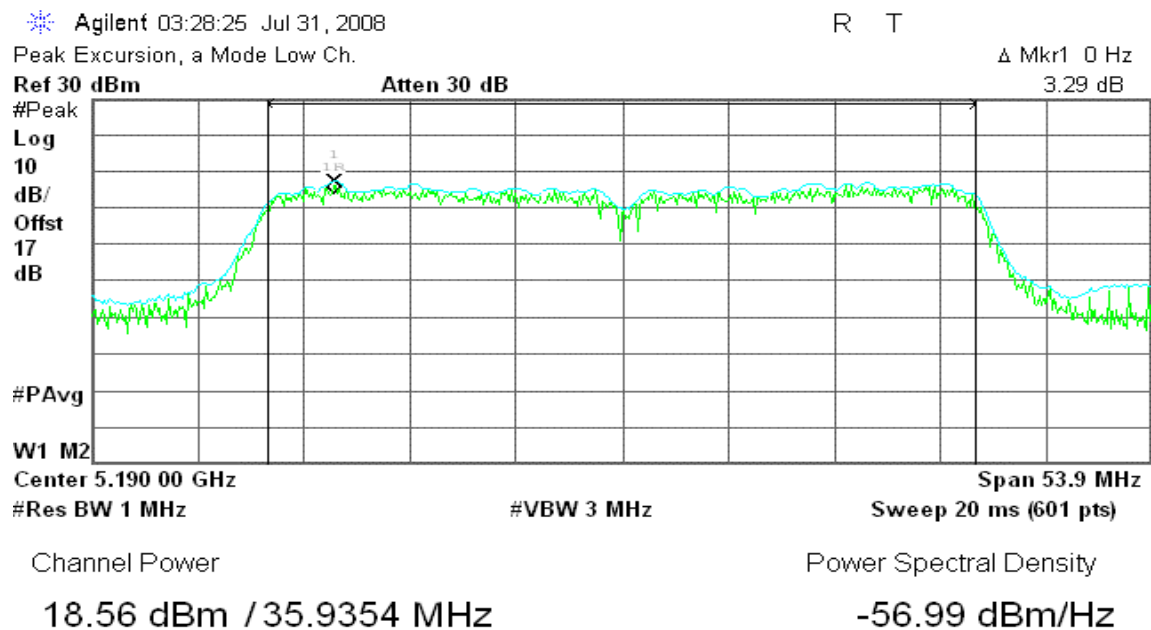
17.53 dBm / 17.7226 MHz

-54.96 dBm/Hz

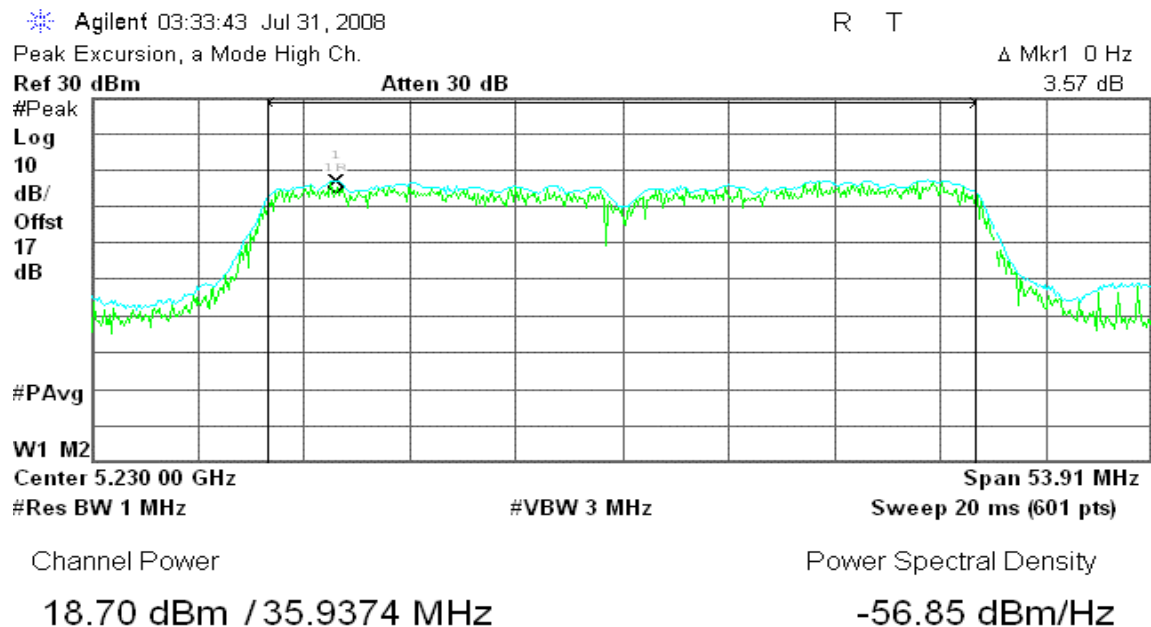


draft 802.11n Wide-40 MHz Channel mode / 5190 ~ 5230MHz / Chain 0

CH Low



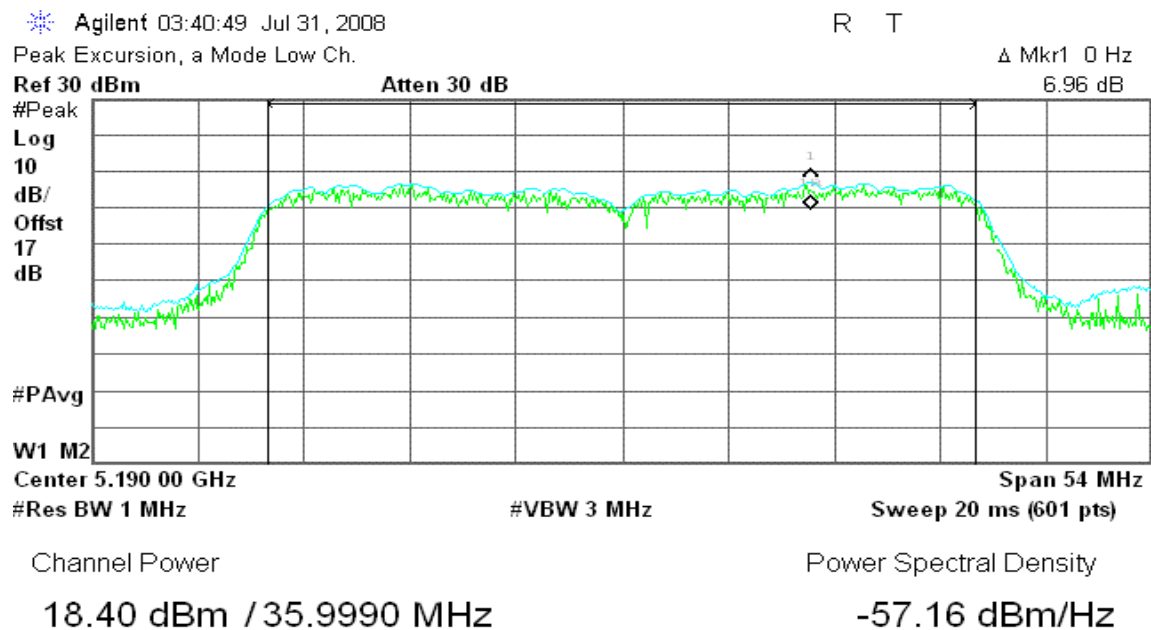
CH High



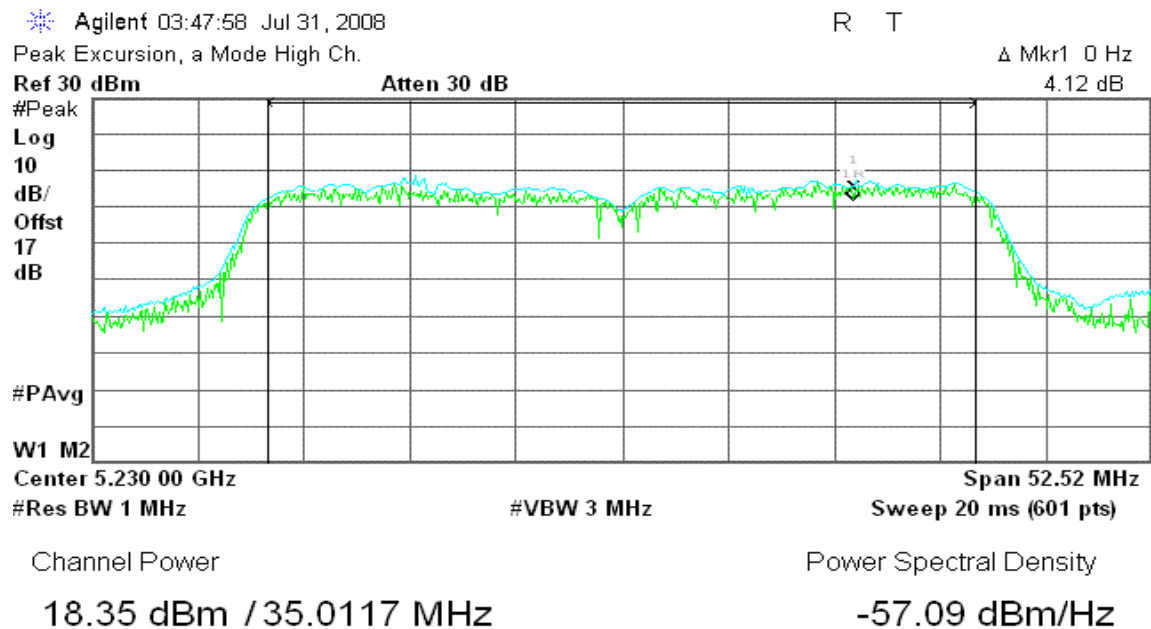


draft 802.11n Wide-40 MHz Channel mode / 5190 ~ 5230MHz / Chain 1

CH Low



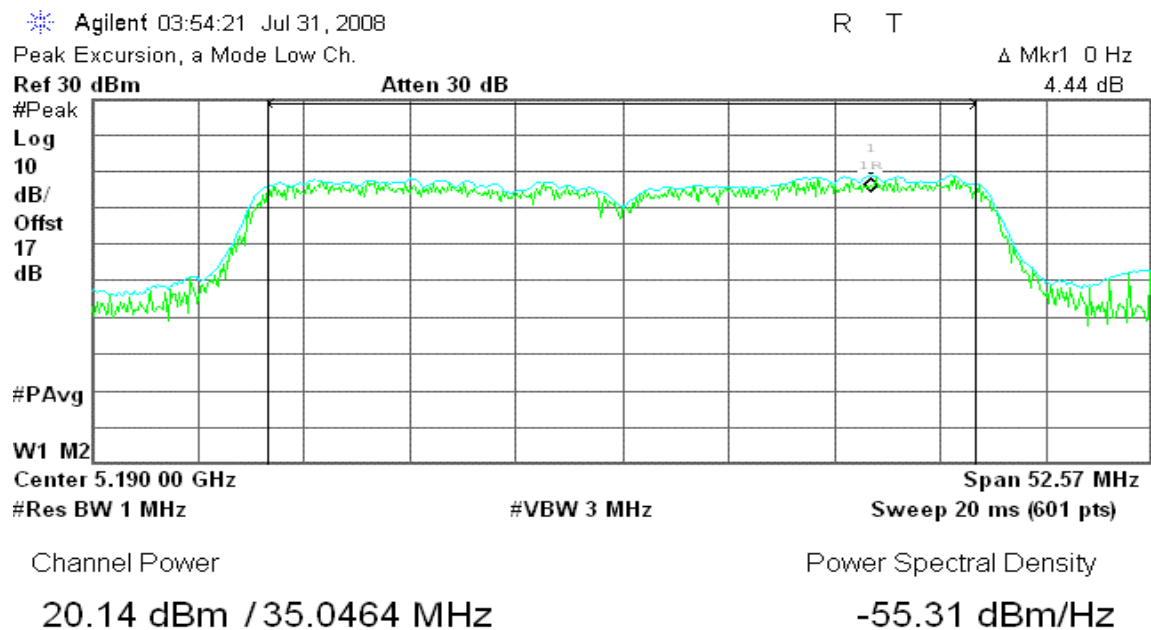
CH High



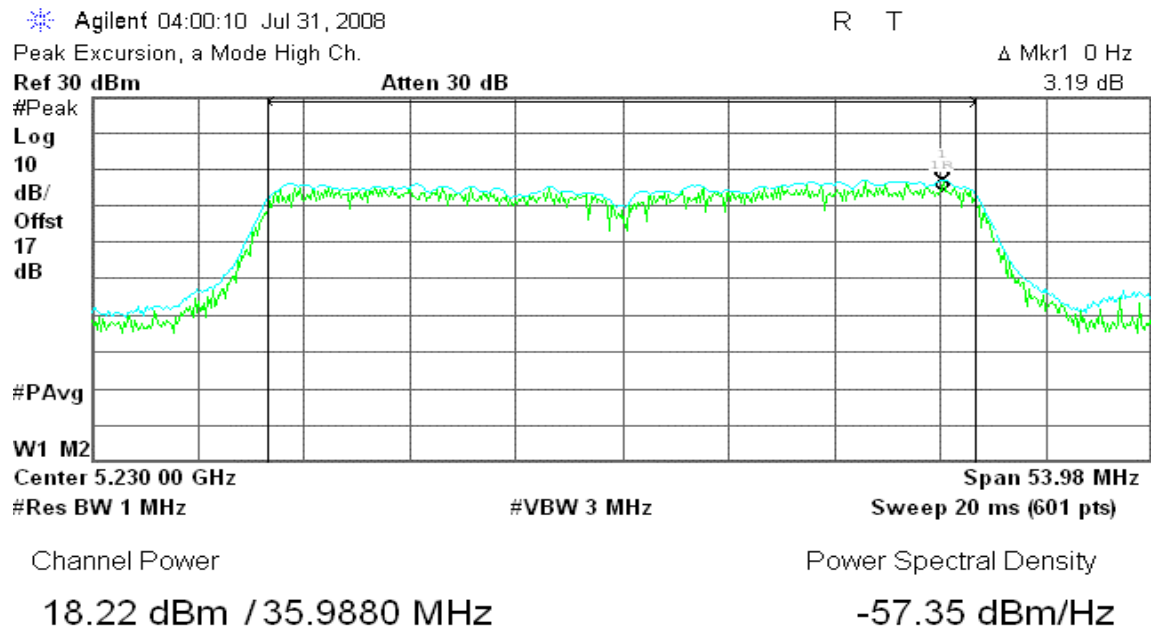


draft 802.11n Wide-40 MHz Channel mode / 5190 ~ 5230MHz / Chain 2

CH Low



CH High





IEEE 802.11a mode / 5260 ~ 5320MHz

CH Low

Agilent 18:11:27 Jul 29, 2008

R T

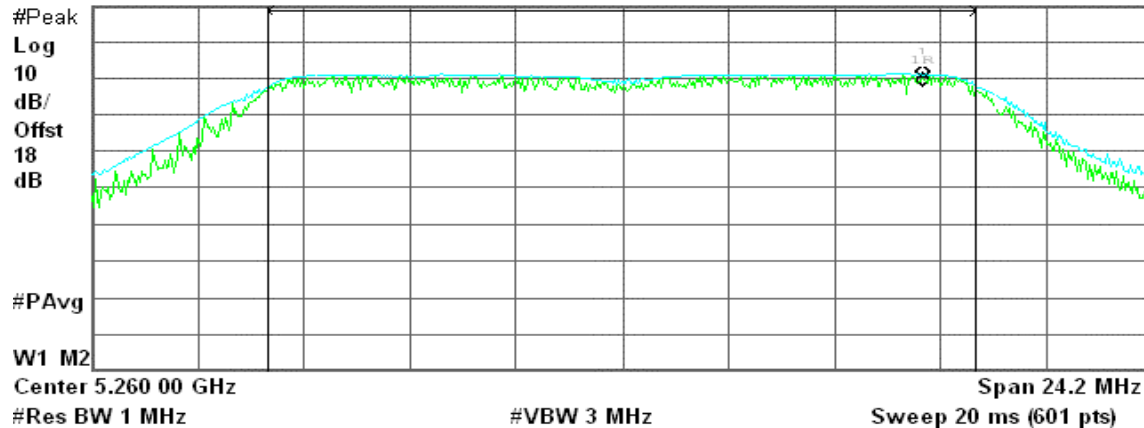
Peak Excursion, a Mode Low Ch.

Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

2.01 dB



Channel Power

Power Spectral Density

21.00 dBm / 16.6050 MHz

-51.08 dBm/Hz

CH Mid

Agilent 18:54:00 Jul 29, 2008

R T

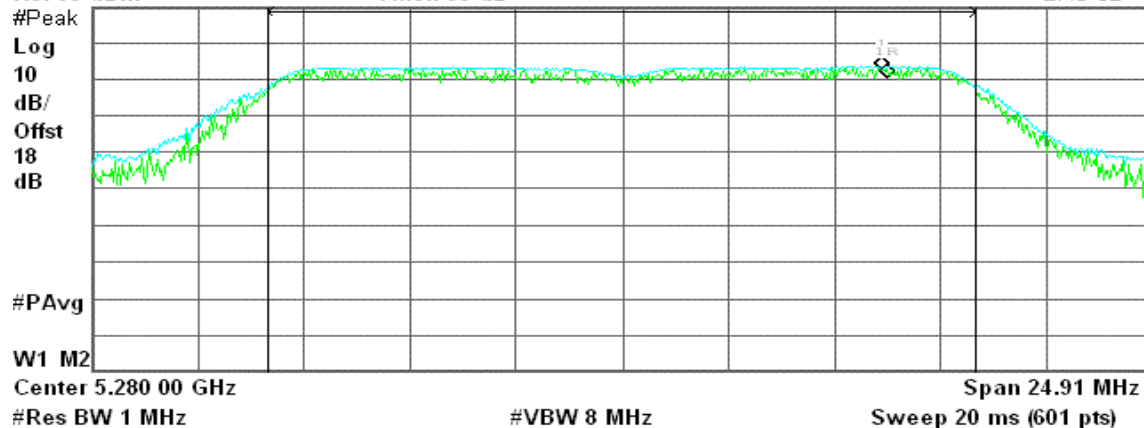
Peak Excursion, a Mode Mid Ch.

Δ Mkr1 -138 kHz

Ref 30 dBm

Atten 30 dB

2.43 dB



Channel Power

Power Spectral Density

23.33 dBm / 16.6050 MHz

-48.87 dBm/Hz

**CH High**

* Agilent 19:34:31 Jul 29, 2008

R T

Peak Excursion, a Mode High Ch.

 Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

2.29 dB

#Peak

Log

10

dB/

Offst

18

dB

#PAvg

W1 M2

Center 5.320 00 GHz

Span 24.89 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

20.68 dBm / 16.5910 MHz

-51.52 dBm/Hz

draft 802.11n Standard-20 MHz Channel mode / 5260 ~ 5320MHz / Chain 0**CH Low**

* Agilent 18:05:09 Jul 30, 2008

R T

Peak Excursion, a Mode Low Ch.

 Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

3.26 dB

#Peak

Log

10

dB/

Offst

17.2

dB

#PAvg

W1 M2

Center 5.260 00 GHz

Span 24.93 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

22.45 dBm / 16.6212 MHz

-49.75 dBm/Hz



CH Mid

Agilent 18:11:41 Jul 30, 2008

R T

Peak Excursion, a Mode Mid Ch.

Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

2.23 dB

#Peak

Log

10

dB/

Offst

17.2

dB

#PAvg

W1 M2

Center 5.280 00 GHz

Span 25.02 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

21.61 dBm / 16.6790 MHz

-50.61 dBm/Hz

CH High

Agilent 18:19:48 Jul 30, 2008

R T

Peak Excursion, a Mode High Ch.

Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

0.03 dB

#Peak

Log

10

dB/

Offst

17.2

dB

#PAvg

M1 M2

Center 5.320 00 GHz

Span 25.01 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

18.40 dBm / 16.6707 MHz

-53.82 dBm/Hz

**draft 802.11n Standard-20 MHz Channel mode / 5260 ~ 5320MHz / Chain 1****CH Low**

* Agilent 19:01:52 Jul 30, 2008

R T

Peak Excursion, a Mode Low Ch.

 Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

3.70 dB

#Peak

Log

10

dB/

Offst

17.2

dB

#PAvg

W1 M2

Center 5.260 00 GHz

Span 26.67 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

22.12 dBm / 17.7820 MHz

-50.38 dBm/Hz

CH Mid

* Agilent 19:16:45 Jul 30, 2008

R T

Peak Excursion, a Mode Mid Ch.

 Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

3.00 dB

#Peak

Log

10

dB/

Offst

17.2

dB

#PAvg

W1 M2

Center 5.280 00 GHz

Span 26.64 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

21.31 dBm / 17.7600 MHz

-51.19 dBm/Hz

**CH High**

Agilent 19:30:33 Jul 30, 2008

R T

Peak Excursion, a Mode High Ch.

 Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

3.94 dB

#Peak

Log

10

dB/

Offst

17.2

dB

#PAvg

W1 M2

Center 5.320 00 GHz

Span 26.63 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

17.12 dBm / 17.7520 MHz

-55.37 dBm/Hz

draft 802.11n Standard-20 MHz Channel mode / 5260 ~ 5320MHz / Chain 2**CH Low**

Agilent 19:39:15 Jul 30, 2008

R T

Peak Excursion, a Mode Low Ch.

 Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

4.96 dB

#Peak

Log

10

dB/

Offst

17.2

dB

#PAvg

W1 M2

Center 5.260 00 GHz

Span 26.7 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

24.10 dBm / 17.8030 MHz

-48.40 dBm/Hz



CH Mid

Agilent 19:45:03 Jul 30, 2008

R T

Peak Excursion, a Mode Mid Ch.

Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

4.97 dB

#Peak

Log

10

dB/

Offst

17.2

dB

#PAvg

W1 M2

Center 5.280 00 GHz

Span 26.58 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

24.05 dBm / 17.7200 MHz

-48.43 dBm/Hz

CH High

Agilent 19:50:26 Jul 30, 2008

R T

Peak Excursion, a Mode High Ch.

Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

3.78 dB

#Peak

Log

10

dB/

Offst

17.2

dB

#PAvg

W1 M2

Center 5.320 00 GHz

Span 26.48 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

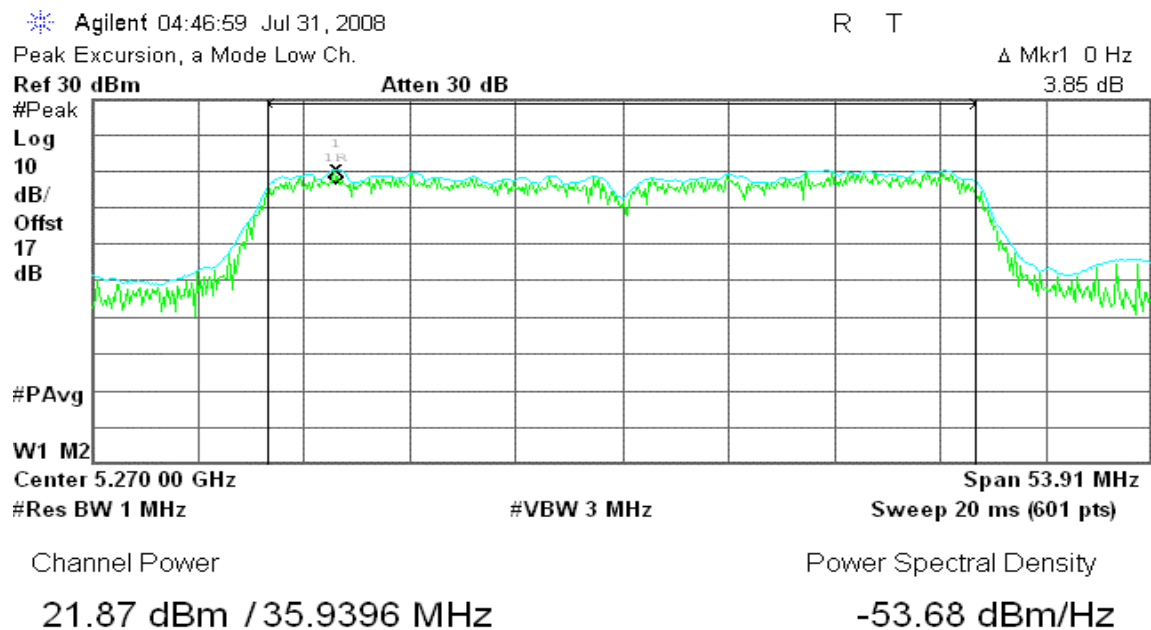
20.62 dBm / 17.6500 MHz

-51.85 dBm/Hz

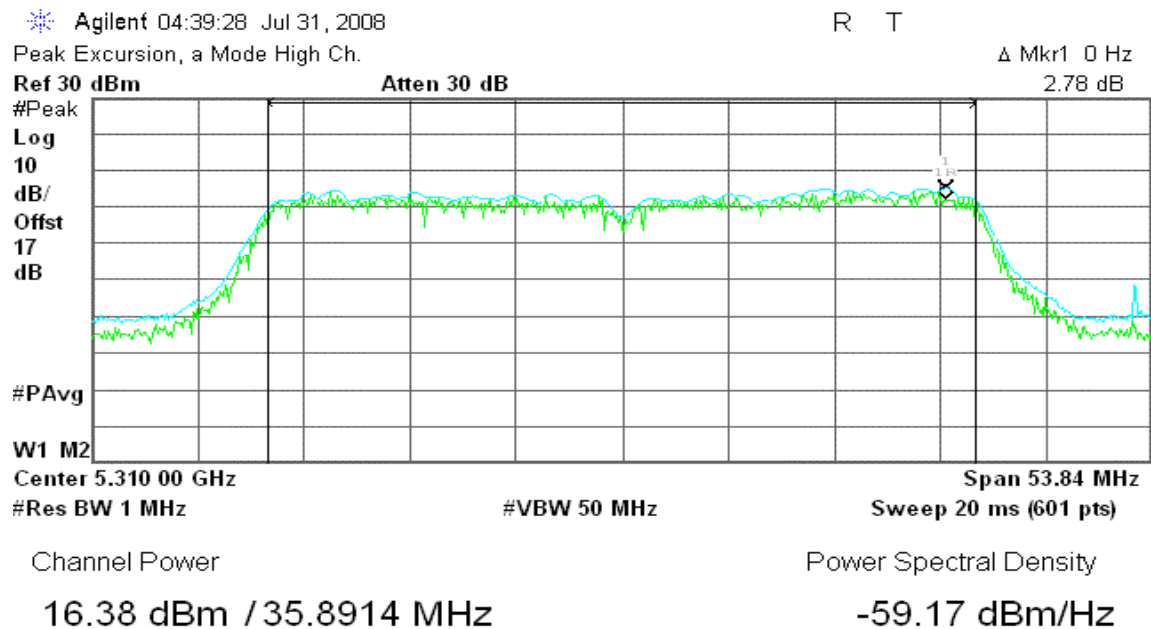


draft 802.11n Wide-40 MHz Channel mode / 5270 ~ 5310MHz / Chain 0

CH Low



CH High



**draft 802.11n Wide-40 MHz Channel mode / 5270 ~ 5310MHz / Chain 1****CH Low**

Agilent 04:53:45 Jul 31, 2008

R T

Peak Excursion, a Mode Low Ch.

 Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

4.92 dB

#Peak

Log

10

dB/

Offst

17

dB

#PAvg

W1 M2

Center 5.270 00 GHz

Span 54.03 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

20.15 dBm / 36.0180 MHz

-55.41 dBm/Hz

CH High

Agilent 04:58:52 Jul 31, 2008

R T

Peak Excursion, a Mode High Ch.

 Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

3.44 dB

#Peak

Log

10

dB/

Offst

17

dB

#PAvg

W1 M2

Center 5.310 00 GHz

Span 54.01 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

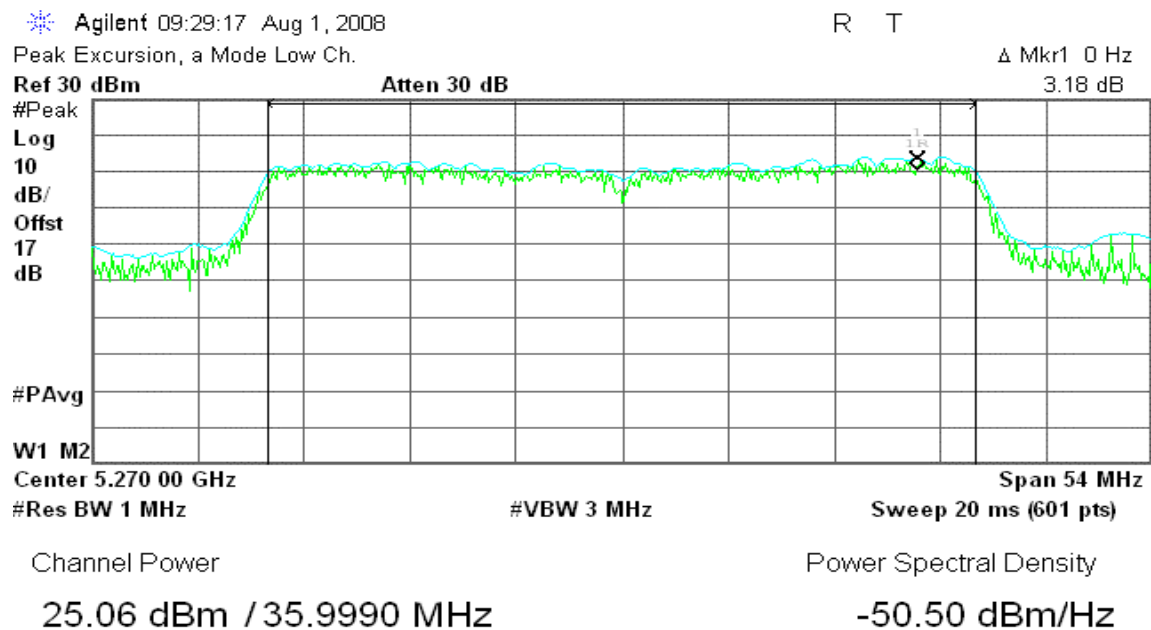
15.34 dBm / 36.0070 MHz

-60.23 dBm/Hz

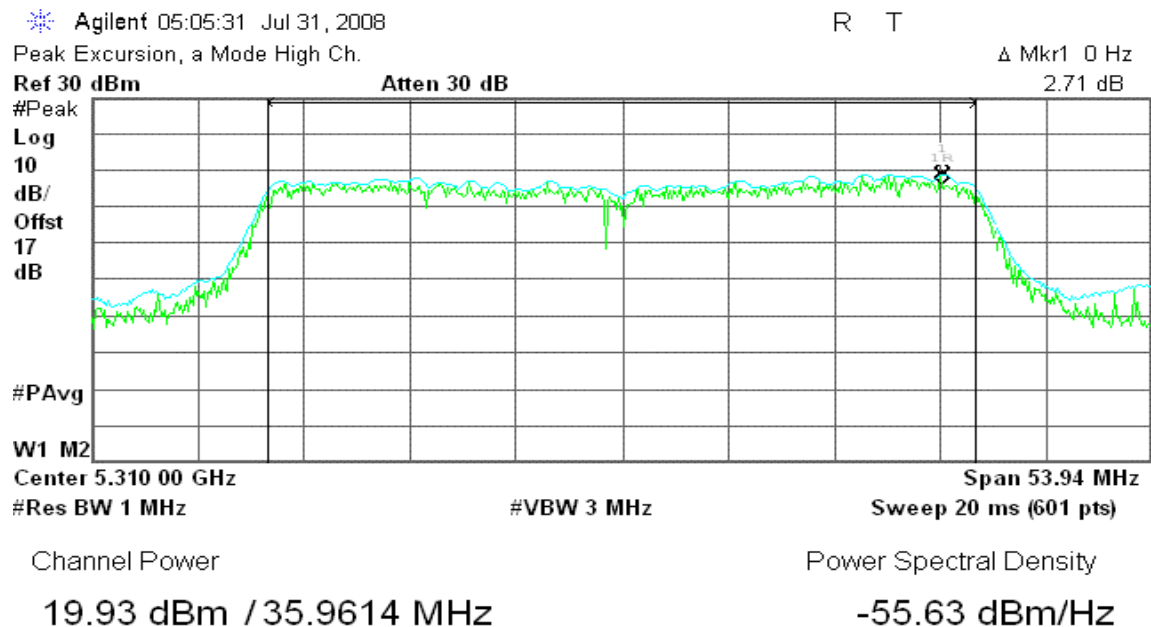


draft 802.11n Wide-40 MHz Channel mode / 5270 ~ 5310MHz / Chain 2

CH Low



CH High



**Test mode: IEEE 802.11a mode / 5500 ~ 5700MHz****CH Low**

Agilent 19:51:50 Jul 29, 2008

R T

Peak Excursion, a Mode Low Ch.

 Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

0.80 dB

#Peak

Log

10

dB/

Offst

18

dB

#PAvg

W1 M2

Center 5.500 00 GHz

Span 25.02 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

23.36 dBm / 16.6780 MHz

-48.86 dBm/Hz

CH Mid

Agilent 20:25:20 Jul 29, 2008

R T

Peak Excursion, a Mode Mid Ch.

 Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

3.53 dB

#Peak

Log

10

dB/

Offst

18

dB

#PAvg

W1 M2

Center 5.600 00 GHz

Span 24.97 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

23.73 dBm / 16.6440 MHz

-48.48 dBm/Hz



CH High

Agilent 20:32:55 Jul 29, 2008

R T

Peak Excursion, a Mode High Ch.

Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

3.03 dB

#Peak

Log

10

dB/

Offst

18

dB

#PAvg

W1 M2

Center 5.700 00 GHz

Span 25 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

23.00 dBm / 16.6690 MHz

-49.22 dBm/Hz

draft 802.11n Standard-20 MHz Channel mode / 5500 ~ 5700MHz / Chain 0

CH Low

Agilent 22:14:04 Jul 30, 2008

R T

Peak Excursion, a Mode Low Ch.

Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

5.08 dB

#Peak

Log

10

dB/

Offst

17

dB

#PAvg

W1 M2

Center 5.500 00 GHz

Span 22.47 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

17.42 dBm / 14.9800 MHz

-54.34 dBm/Hz



CH Mid

Agilent 22:20:24 Jul 30, 2008

R T

Peak Excursion, a Mode Mid Ch.

Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

4.55 dB

#Peak

Log

10

dB/

Offst

17

dB

#PAvg

W1 M2

Center 5.600 00 GHz

Span 26.66 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

21.38 dBm / 17.7700 MHz

-51.11 dBm/Hz

CH High

Agilent 22:27:05 Jul 30, 2008

R T

Peak Excursion, a Mode High Ch.

Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

4.26 dB

#Peak

Log

10

dB/

Offst

17

dB

#PAvg

W1 M2

Center 5.700 00 GHz

Span 28.5 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

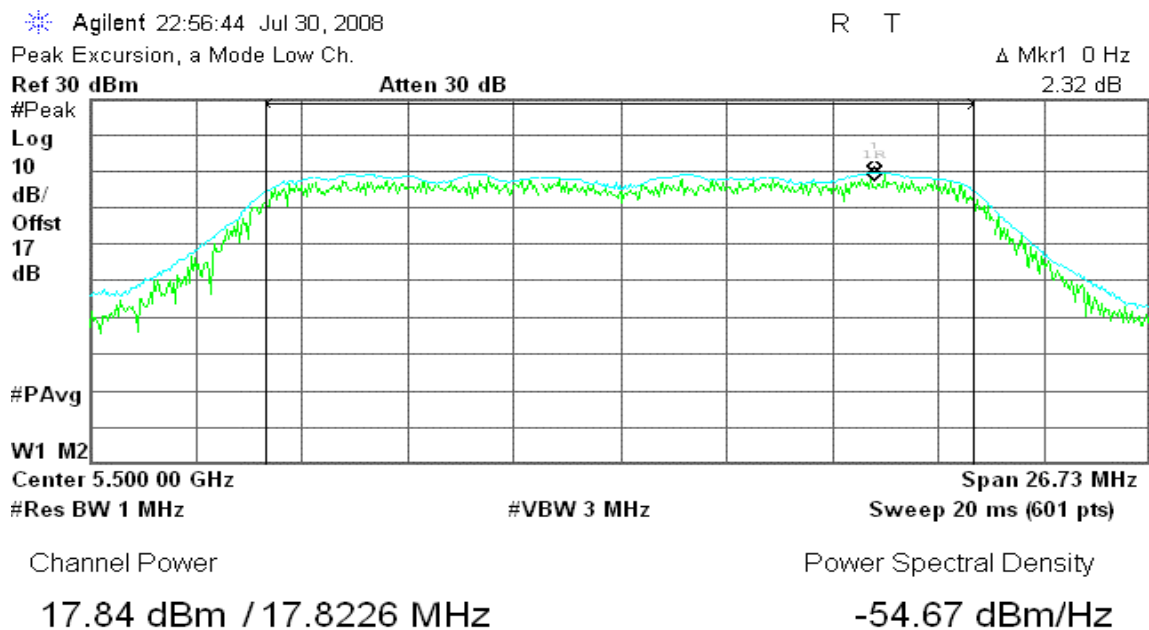
22.93 dBm / 19.0000 MHz

-49.86 dBm/Hz

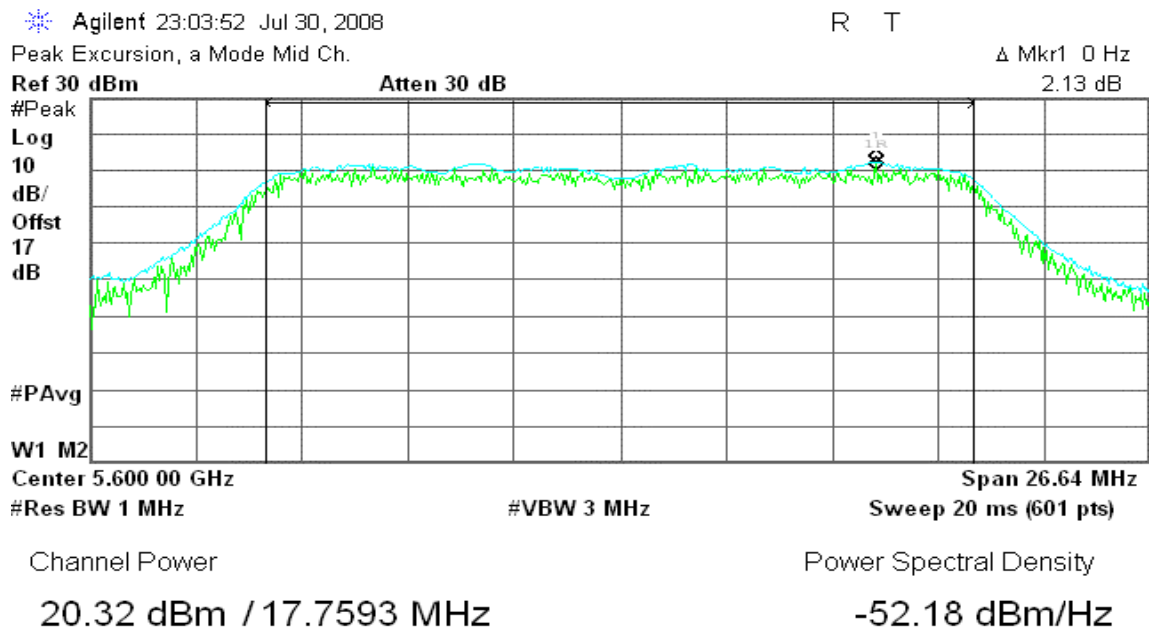


draft 802.11n Standard-20 MHz Channel mode / 5500 ~ 5700MHz / Chain 1

CH Low



CH Mid



**CH High**

* Agilent 23:11:30 Jul 30, 2008

R T

Peak Excursion, a Mode High Ch.

 Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

4.59 dB

#Peak

Log

10

dB/

Offst

17

dB

#PAvg

W1 M2

Center 5.700 00 GHz

Span 26.72 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

22.31 dBm / 17.8110 MHz

-50.19 dBm/Hz

draft 802.11n Standard-20 MHz Channel mode / 5500 ~ 5700MHz / Chain 2**CH Low**

* Agilent 23:27:54 Jul 30, 2008

R T

Peak Excursion, a Mode Low Ch.

 Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

3.75 dB

#Peak

Log

10

dB/

Offst

17

dB

#PAvg

W1 M2

Center 5.500 00 GHz

Span 26.58 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

19.66 dBm / 17.7185 MHz

-52.82 dBm/Hz



CH Mid

Agilent 23:34:12 Jul 30, 2008

R T

Peak Excursion, a Mode Mid Ch.

Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

3.10 dB

#Peak

Log

10

dB/

Offst

17

dB

#PAvg

W1 M2

Center 5.600 00 GHz

Span 26.5 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

20.63 dBm / 17.6643 MHz

-51.85 dBm/Hz

CH High

Agilent 23:39:36 Jul 30, 2008

R T

Peak Excursion, a Mode High Ch.

Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

5.09 dB

#Peak

Log

10

dB/

Offst

17

dB

#PAvg

W1 M2

Center 5.700 00 GHz

Span 26.6 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

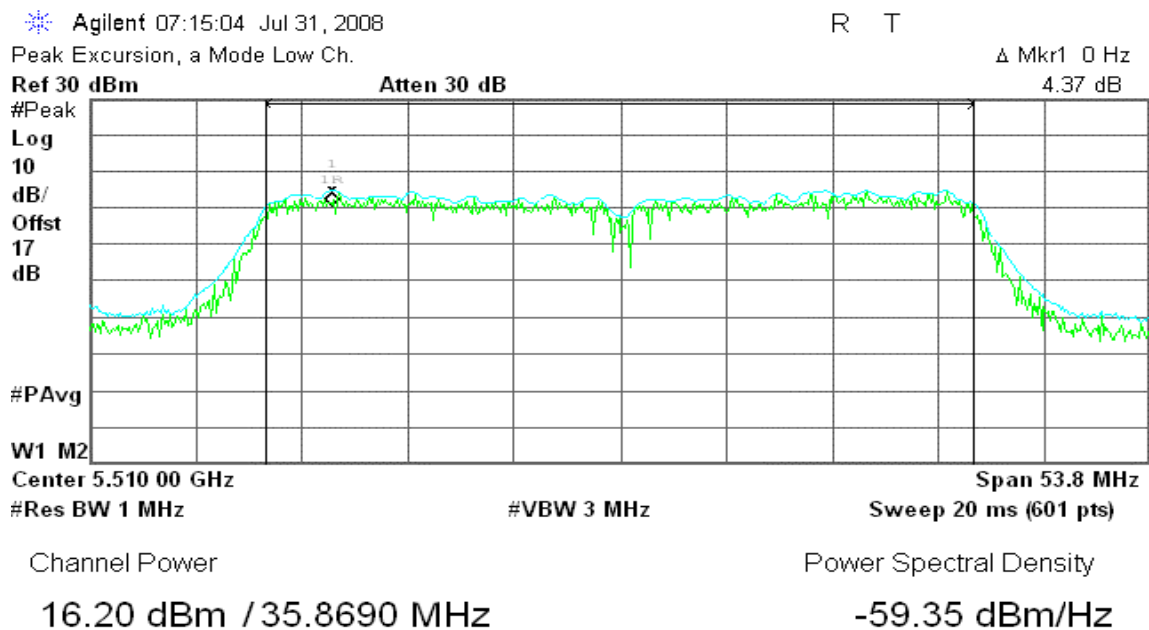
21.98 dBm / 17.7337 MHz

-50.51 dBm/Hz

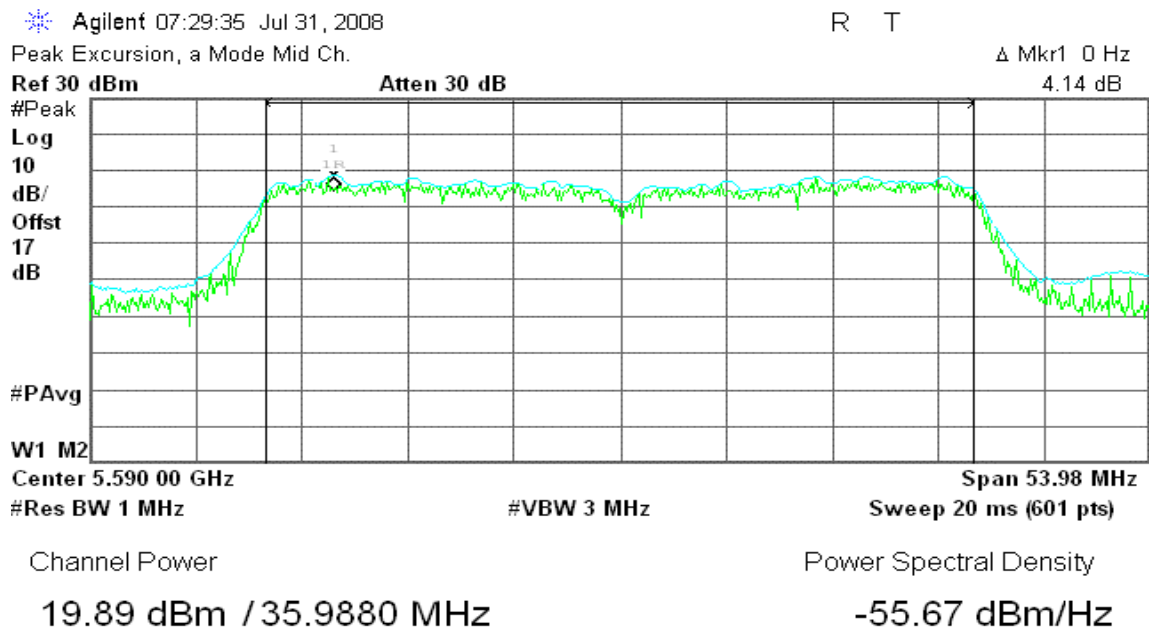


draft 802.11n Wide-40 MHz Channel mode / 5510 ~ 5670MHz / Chain 0

CH Low



CH Mid





CH High

Agilent 07:35:20 Jul 31, 2008

R T

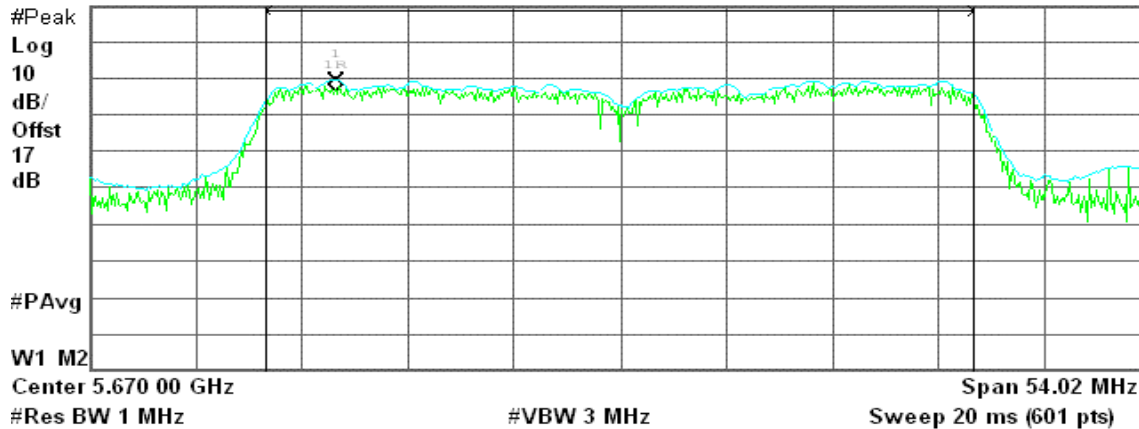
Peak Excursion, a Mode High Ch.

Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

3.07 dB



Channel Power

Power Spectral Density

21.07 dBm / 36.0150 MHz

-54.50 dBm/Hz

draft 802.11n Wide-40 MHz Channel mode / 5510 ~ 5670MHz / Chain 1

CH Low

Agilent 07:44:33 Jul 31, 2008

R T

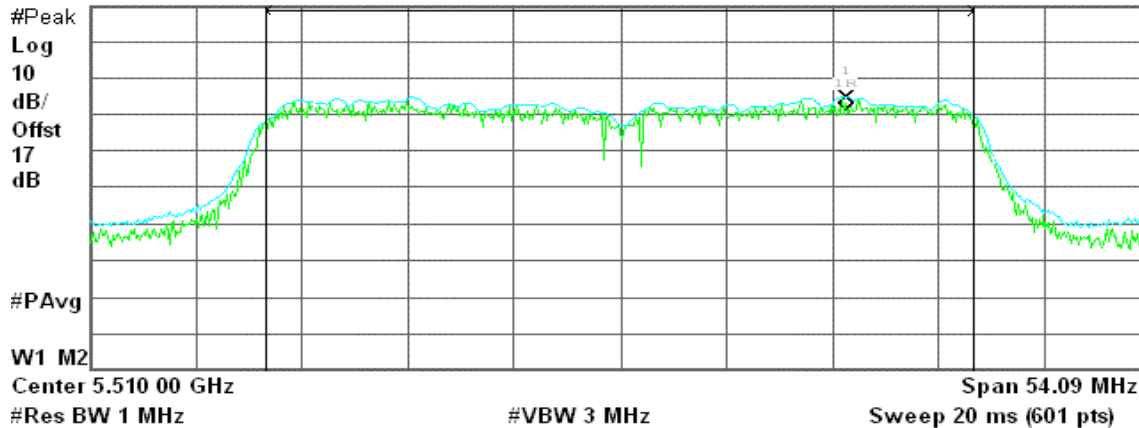
Peak Excursion, a Mode Low Ch.

Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

3.35 dB



Channel Power

Power Spectral Density

16.04 dBm / 36.0621 MHz

-59.53 dBm/Hz



CH Mid

Agilent 07:51:58 Jul 31, 2008

R T

Peak Excursion, a Mode Mid Ch.

Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

1.28 dB

#Peak

Log

10

dB/

Offst

17

dB

#PAvg

W1 M2

Center 5.590 00 GHz

Span 54.12 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

19.36 dBm / 36.0825 MHz

-56.21 dBm/Hz

CH High

Agilent 07:59:12 Jul 31, 2008

R T

Peak Excursion, a Mode High Ch.

Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

3.42 dB

#Peak

Log

10

dB/

Offst

17

dB

#PAvg

W1 M2

Center 5.670 00 GHz

Span 54.08 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

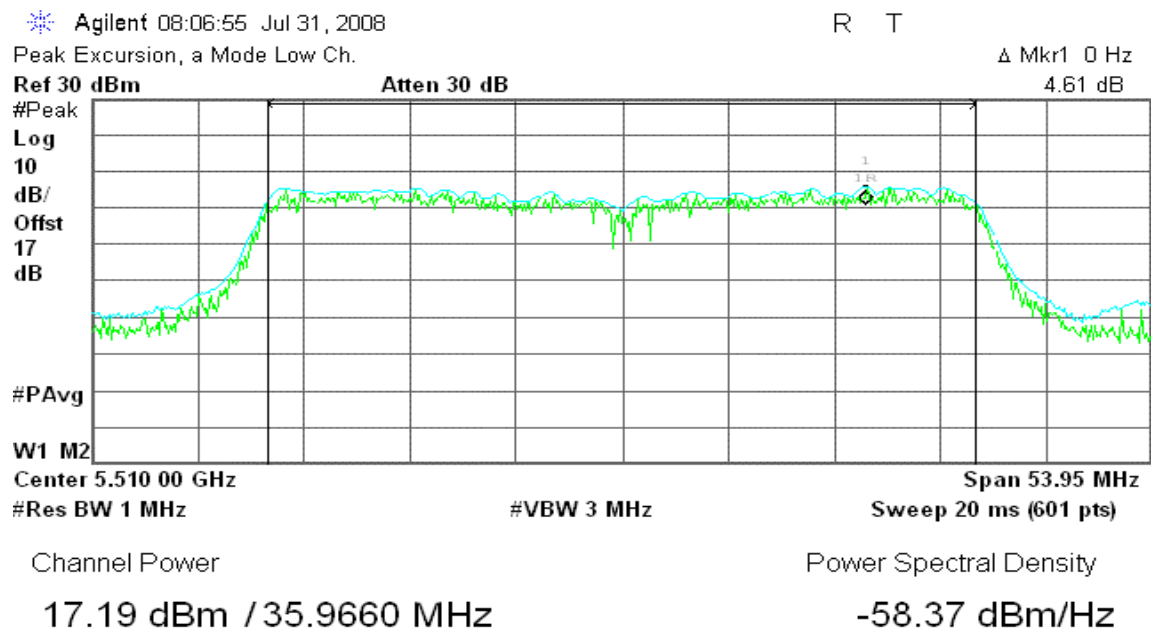
20.06 dBm / 36.0509 MHz

-55.51 dBm/Hz

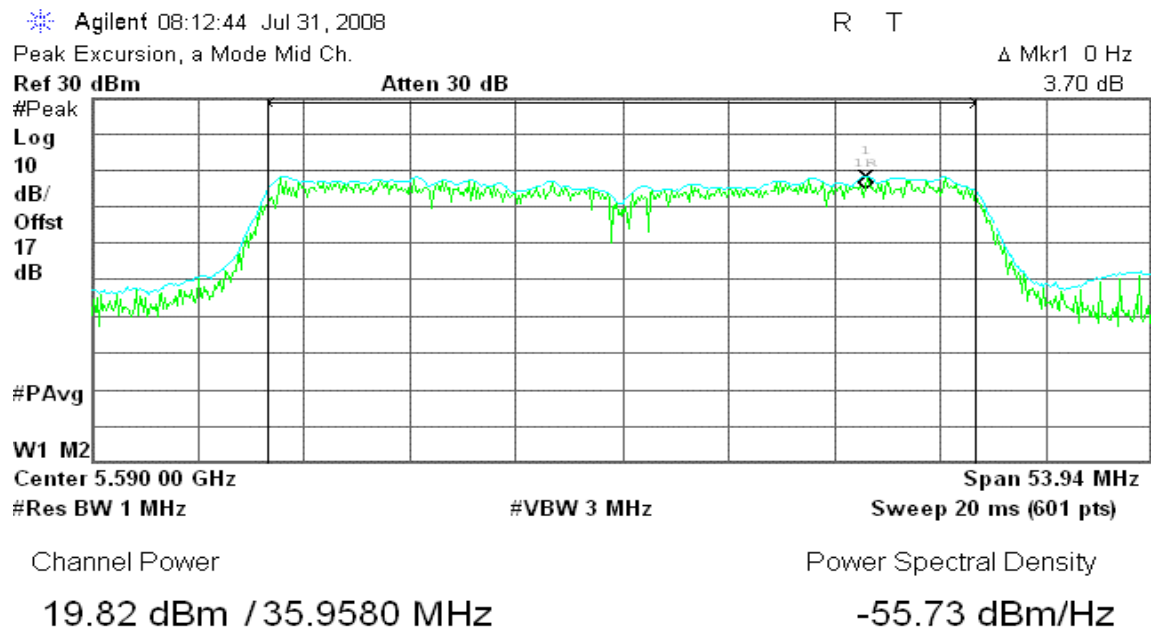


draft 802.11n Wide-40 MHz Channel mode / 5510 ~ 5670MHz / Chain 2.

CH Low



CH Mid





CH High

Agilent 08:19:16 Jul 31, 2008

R T

Peak Excursion, a Mode High Ch.

Δ Mkr1 0 Hz

Ref 30 dBm

Atten 30 dB

3.23 dB

#Peak

Log

10

dB/

Offst

17

dB

#PAvg

W1 M2

Center 5.670 00 GHz

Span 54.07 MHz

#Res BW 1 MHz

#VBW 3 MHz

Sweep 20 ms (601 pts)

Channel Power

Power Spectral Density

20.17 dBm / 36.0462 MHz

-55.40 dBm/Hz

