Operation Mode: TX / IEEE 802.11b (Antenna 2)/ CH Low **Test Date:** April 23, 2013
Temperature: 24°C **Tested by:** Leevin Li
Humidity: 52% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1270.0000	49.20	-8.42	40.78	74.00	-33.22	V	peak
3250.0000	52.35	-4.07	48.28	74.00	-25.72	V	peak
3760.0000	46.26	-2.59	43.67	74.00	-30.33	V	peak
4435.0000	45.67	-0.76	44.91	74.00	-29.09	V	peak
5050.0000	45.08	1.38	46.46	74.00	-27.54	V	peak
5605.0000	45.14	1.95	47.09	74.00	-26.91	V	peak
1285.0000	49.96	-8.35	41.61	74.00	-32.39	H	Peak
3460.0000	47.06	-3.70	43.36	74.00	-30.64	H	Peak
3910.0000	46.17	-2.51	43.66	74.00	-30.34	H	Peak
5035.0000	44.76	1.36	46.12	74.00	-27.88	H	Peak
5695.0000	44.93	2.33	47.26	74.00	-26.74	H	Peak
6265.0000	45.36	3.88	49.24	74.00	-24.76	H	Peak

REMARKS:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11b (Antenna 2)/ CH High **Test Date:** April 23, 2013

Temperature: 24°C **Tested by:** Leevin Li

Humidity: 52% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1300.0000	49.45	-8.28	41.17	74.00	-32.83	V	peak
3280.0000	55.89	-4.05	51.84	74.00	-22.16	V	peak
4420.0000	46.14	-0.78	45.36	74.00	-28.64	V	peak
4795.0000	45.07	0.39	45.46	74.00	-28.54	V	peak
5455.0000	45.86	1.63	47.49	74.00	-26.51	V	peak
6025.0000	45.11	3.16	48.27	74.00	-25.73	V	peak
1465.0000	48.38	-8.11	40.27	74.00	-33.73	H	Peak
3655.0000	46.53	-2.87	43.66	74.00	-30.34	H	Peak
4165.0000	45.69	-1.75	43.94	74.00	-30.06	H	Peak
4915.0000	45.07	0.93	46.00	74.00	-28.00	H	Peak
5650.0000	45.02	2.14	47.16	74.00	-26.84	H	Peak
6925.0000	44.50	5.97	50.47	74.00	-23.53	H	Peak

REMARKS:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11g (Antenna 1)/ CH Low **Test Date:** April 23, 2013
Temperature: 24°C **Tested by:** Leevin Li
Humidity: 52% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3220.0000	53.96	-4.08	49.88	74.00	-24.12	V	Peak
3790.0000	45.82	-2.52	43.30	74.00	-30.70	V	Peak
4135.0000	46.35	-1.89	44.46	74.00	-29.54	V	Peak
5005.0000	44.98	1.33	46.31	74.00	-27.69	V	Peak
5650.0000	44.51	2.14	46.65	74.00	-27.35	V	Peak
6340.0000	44.87	4.09	48.96	74.00	-25.04	V	Peak
1225.0000	48.80	-8.62	40.18	74.00	-33.82	H	Peak
3310.0000	46.75	-4.04	42.71	74.00	-31.29	H	Peak
3850.0000	46.59	-2.50	44.09	74.00	-29.91	H	Peak
4705.0000	44.82	0.00	44.82	74.00	-29.18	H	Peak
5755.0000	44.79	2.59	47.38	74.00	-26.62	H	Peak
6295.0000	46.01	3.97	49.98	74.00	-24.02	H	Peak

REMARKS:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11g(Antenna 1) / CH Mid **Test Date:** April 23, 2013
Temperature: 24°C **Tested by:** Leevin Li
Humidity: 52 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3250.0000	55.23	-4.07	51.16	74.00	-22.84	V	Peak
3805.0000	45.40	-2.49	42.91	74.00	-31.09	V	Peak
4255.0000	45.58	-1.37	44.21	74.00	-29.79	V	Peak
4975.0000	45.03	1.21	46.24	74.00	-27.76	V	Peak
5860.0000	44.55	2.87	47.42	74.00	-26.58	V	Peak
6325.0000	45.62	4.05	49.67	74.00	-24.33	V	Peak
3040.0000	47.54	-4.21	43.33	74.00	-30.67	H	Peak
3850.0000	45.58	-2.50	43.08	74.00	-30.92	H	Peak
4600.0000	44.82	-0.46	44.36	74.00	-29.64	H	Peak
4900.0000	45.54	0.86	46.40	74.00	-27.60	H	Peak
5590.0000	44.79	1.91	46.70	74.00	-27.30	H	Peak
6250.0000	44.55	3.83	48.38	74.00	-25.62	H	Peak

REMARKS:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11g(Antenna 1) / CH High **Test Date:** April 23, 2013

Temperature: 24°C **Tested by:** Leevin Li

Humidity: 52 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3280.0000	53.53	-4.05	49.48	74.00	-24.52	V	Peak
3850.0000	46.32	-2.50	43.82	74.00	-30.18	V	Peak
4420.0000	46.72	-0.78	45.94	74.00	-28.06	V	Peak
5005.0000	45.25	1.33	46.58	74.00	-27.42	V	Peak
6100.0000	44.69	3.39	48.08	74.00	-25.92	V	Peak
6325.0000	45.51	4.05	49.56	74.00	-24.44	V	Peak
1585.0000	48.77	-8.62	40.15	74.00	-33.85	H	Peak
3265.0000	46.84	-4.06	42.78	74.00	-31.22	H	Peak
3670.0000	46.01	-2.83	43.18	74.00	-30.82	H	Peak
4375.0000	46.10	-0.91	45.19	74.00	-28.81	H	Peak
5050.0000	45.52	1.38	46.90	74.00	-27.10	H	Peak
6490.0000	44.14	4.51	48.65	74.00	-25.35	H	Peak

REMARKS:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11g(Antenna 2) / CH Low **Test Date:** April 23, 2013
Temperature: 24°C **Tested by:** Leevin Li
Humidity: 52% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3220.0000	53.96	-4.08	49.88	74.00	-24.12	V	Peak
3790.0000	45.82	-2.52	43.30	74.00	-30.70	V	Peak
4135.0000	46.35	-1.89	44.46	74.00	-29.54	V	Peak
5005.0000	44.98	1.33	46.31	74.00	-27.69	V	Peak
5650.0000	44.51	2.14	46.65	74.00	-27.35	V	Peak
6340.0000	44.87	4.09	48.96	74.00	-25.04	V	Peak
1225.0000	48.80	-8.62	40.18	74.00	-33.82	H	Peak
3310.0000	46.75	-4.04	42.71	74.00	-31.29	H	Peak
3850.0000	46.59	-2.50	44.09	74.00	-29.91	H	Peak
4705.0000	44.82	0.00	44.82	74.00	-29.18	H	Peak
5755.0000	44.79	2.59	47.38	74.00	-26.62	H	Peak
6295.0000	46.01	3.97	49.98	74.00	-24.02	H	Peak

REMARKS:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11g(Antenna 2) / CH Mid **Test Date:** April 23, 2013

Temperature: 24°C **Tested by:** Leevin Li

Humidity: 52 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3250.0000	49.80	-4.07	45.73	74.00	-28.27	V	Peak
4480.0000	44.56	-0.68	43.88	74.00	-30.12	V	Peak
5290.0000	45.30	1.54	46.84	74.00	-27.16	V	Peak
5905.0000	44.34	2.94	47.28	74.00	-26.72	V	Peak
6325.0000	44.96	4.05	49.01	74.00	-24.99	V	Peak
7315.0000	54.81	7.49	62.30	74.00	-11.70	V	Peak
7315.0000	40.12	7.49	47.61	54.00	-6.39	V	AVG
3250.0000	47.91	-4.07	43.84	74.00	-30.16	H	Peak
4180.0000	45.35	-1.67	43.68	74.00	-30.32	H	Peak
4915.0000	45.57	0.93	46.50	74.00	-27.50	H	Peak
5560.0000	44.44	1.85	46.29	74.00	-27.71	H	Peak
6205.0000	44.08	3.70	47.78	74.00	-26.22	H	Peak
6475.0000	44.87	4.47	49.34	74.00	-24.66	H	Peak

REMARKS:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11g(Antenna 2) / CH High **Test Date:** April 23, 2013

Temperature: 24°C **Tested by:** Leevin Li

Humidity: 52 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3340.0000	47.58	-4.03	43.55	74.00	-30.45	V	Peak
4420.0000	45.38	-0.78	44.60	74.00	-29.40	V	Peak
5050.0000	45.04	1.38	46.42	74.00	-27.58	V	Peak
5500.0000	44.86	1.73	46.59	74.00	-27.41	V	Peak
6100.0000	45.74	3.39	49.13	74.00	-24.87	V	Peak
6820.0000	44.43	5.57	50.00	74.00	-24.00	V	Peak
3280.0000	48.39	-4.05	44.34	74.00	-29.66	H	Peak
4195.0000	46.30	-1.60	44.70	74.00	-29.30	H	Peak
4930.0000	46.12	1.00	47.12	74.00	-26.88	H	Peak
5725.0000	45.49	2.46	47.95	74.00	-26.05	H	Peak
6025.0000	45.06	3.16	48.22	74.00	-25.78	H	Peak
7015.0000	44.66	6.43	51.09	74.00	-22.91	H	Peak

REMARKS:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11n HT20 MHz (Antenna 1) / CH Low
Test Date: April 23, 2013
Temperature: 24°C
Tested by: Leevin Li
Humidity: 52% RH
Polarity: Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3175.0000	47.01	-4.11	42.90	74.00	-31.10	V	Peak
4150.0000	45.48	-1.82	43.66	74.00	-30.34	V	Peak
4720.0000	45.34	0.06	45.40	74.00	-28.60	V	Peak
5335.0000	44.96	1.53	46.49	74.00	-27.51	V	Peak
5995.0000	44.07	3.08	47.15	74.00	-26.85	V	Peak
6490.0000	44.52	4.51	49.03	74.00	-24.97	V	Peak
1405.0000	48.01	-7.85	40.16	74.00	-33.84	H	Peak
3745.0000	45.67	-2.63	43.04	74.00	-30.96	H	Peak
4300.0000	46.07	-1.20	44.87	74.00	-29.13	H	Peak
5125.0000	45.87	1.46	47.33	74.00	-26.67	H	Peak
5815.0000	44.16	2.80	46.96	74.00	-27.04	H	Peak
6415.0000	44.84	4.30	49.14	74.00	-24.86	H	Peak

REMARKS:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode:	TX / IEEE 802.11n HT20 MHz (Antenna 1) / CH Mid	**Test Date:**	April 23, 2013
Temperature:	24°C	**Tested by:**	Leevin Li
Humidity:	52% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1330.0000	48.43	-8.14	40.29	74.00	-33.71	V	Peak
3745.0000	45.94	-2.63	43.31	74.00	-30.69	V	Peak
4150.0000	45.27	-1.82	43.45	74.00	-30.55	V	Peak
4825.0000	45.23	0.52	45.75	74.00	-28.25	V	Peak
6010.0000	44.06	3.12	47.18	74.00	-26.82	V	Peak
6550.0000	44.44	4.68	49.12	74.00	-24.88	V	Peak
1300.0000	48.48	-8.28	40.20	74.00	-33.80	H	Peak
3760.0000	45.57	-2.59	42.98	74.00	-31.02	H	Peak
4210.0000	45.86	-1.54	44.32	74.00	-29.68	H	Peak
4570.0000	45.45	-0.51	44.94	74.00	-29.06	H	Peak
5680.0000	44.95	2.27	47.22	74.00	-26.78	H	Peak
6265.0000	45.56	3.88	49.44	74.00	-24.56	H	Peak

REMARKS:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode:	TX / IEEE 802.11n HT20 MHz (Antenna 1)/ CH High	**Test Date:**	April 23, 2013
Temperature:	24°C	**Tested by:**	Leevin Li
Humidity:	52% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1345.0000	49.66	-8.08	41.58	74.00	-32.42	V	Peak
3250.0000	46.34	-4.07	42.27	74.00	-31.73	V	Peak
4105.0000	46.17	-2.03	44.14	74.00	-29.86	V	Peak
4345.0000	45.55	-1.03	44.52	74.00	-29.48	V	Peak
4990.0000	45.89	1.27	47.16	74.00	-26.84	V	Peak
5740.0000	44.97	2.52	47.49	74.00	-26.51	V	Peak
1435.0000	48.37	-7.98	40.39	74.00	-33.61	H	Peak
3730.0000	45.73	-2.67	43.06	74.00	-30.94	H	Peak
4270.0000	45.10	-1.31	43.79	74.00	-30.21	H	Peak
4930.0000	45.27	1.00	46.27	74.00	-27.73	H	Peak
5890.0000	44.51	2.92	47.43	74.00	-26.57	H	Peak
7045.0000	44.20	6.58	50.78	74.00	-23.22	H	Peak

REMARKS:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode:	TX / IEEE 802.11n HT20 MHz (Antenna 2)/ CH Low	**Test Date:**	April 23, 2013
Temperature:	24°C	**Tested by:**	Leevin Li
Humidity:	52% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1255.0000	53.49	-8.48	45.01	74.00	-28.99	V	Peak
1375.0000	56.58	-7.94	48.64	74.00	-25.36	V	Peak
1630.0000	52.98	-8.79	44.19	74.00	-29.81	V	Peak
3220.0000	54.91	-4.08	50.83	74.00	-23.17	V	Peak
4735.0000	45.42	0.13	45.55	74.00	-28.45	V	Peak
6175.0000	44.83	3.61	48.44	74.00	-25.56	V	Peak
1375.0000	52.87	-7.94	44.93	74.00	-29.07	H	Peak
3220.0000	48.66	-4.08	44.58	74.00	-29.42	H	Peak
4135.0000	46.20	-1.89	44.31	74.00	-29.69	H	Peak
4660.0000	44.72	-0.20	44.52	74.00	-29.48	H	Peak
5650.0000	44.56	2.14	46.70	74.00	-27.30	H	Peak
6775.0000	44.88	5.42	50.30	74.00	-23.70	H	Peak

REMARKS:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode:	TX / IEEE 802.11n HT20 MHz (Antenna 2)/ CH Mid	**Test Date:**	April 23, 2013
Temperature:	24°C	**Tested by:**	Leevin Li
Humidity:	52% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1375.0000	56.94	-7.94	49.00	74.00	-25.00	V	Peak
1630.0000	53.42	-8.79	44.63	74.00	-29.37	V	Peak
3250.0000	55.32	-4.07	51.25	74.00	-22.75	V	Peak
4795.0000	44.95	0.39	45.34	74.00	-28.66	V	Peak
5050.0000	45.26	1.38	46.64	74.00	-27.36	V	Peak
6910.0000	44.86	5.89	50.75	74.00	-23.25	V	Peak
1375.0000	57.61	-7.94	49.67	74.00	-24.33	H	Peak
3805.0000	45.77	-2.49	43.28	74.00	-30.72	H	Peak
4945.0000	44.80	1.07	45.87	74.00	-28.13	H	Peak
5620.0000	45.37	2.02	47.39	74.00	-26.61	H	Peak
5980.0000	44.93	3.06	47.99	74.00	-26.01	H	Peak
6520.0000	44.63	4.60	49.23	74.00	-24.77	H	Peak

REMARKS:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode:	TX / IEEE 802.11n HT20 MHz (Antenna 2)/ CH High	**Test Date:**	April 23, 2013
Temperature:	24°C	**Tested by:**	Leevin Li
Humidity:	52% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1375.0000	55.63	-7.94	47.69	74.00	-26.31	V	Peak
3640.0000	45.77	-2.91	42.86	74.00	-31.14	V	Peak
4210.0000	45.43	-1.54	43.89	74.00	-30.11	V	Peak
5095.0000	45.02	1.43	46.45	74.00	-27.55	V	Peak
6010.0000	45.29	3.12	48.41	74.00	-25.59	V	Peak
6265.0000	44.57	3.88	48.45	74.00	-25.55	V	Peak
1375.0000	57.46	-7.94	49.52	74.00	-24.48	H	Peak
3805.0000	46.62	-2.49	44.13	74.00	-29.87	H	Peak
4330.0000	45.47	-1.09	44.38	74.00	-29.62	H	Peak
4915.0000	45.93	0.93	46.86	74.00	-27.14	H	Peak
5665.0000	44.81	2.21	47.02	74.00	-26.98	H	Peak
5890.0000	45.34	2.92	48.26	74.00	-25.74	H	Peak

REMARKS:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11n HT40 MHz (Antenna 1) / CH Low **Test Date:** April 23, 2013

Temperature: 24°C **Tested by:** Leevin Li

Humidity: 52% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1375.0000	55.49	-7.94	47.55	74.00	-26.45	V	Peak
2995.0000	46.98	-4.26	42.72	74.00	-31.28	V	Peak
4165.0000	46.19	-1.75	44.44	74.00	-29.56	V	Peak
4840.0000	44.73	0.59	45.32	74.00	-28.68	V	Peak
5680.0000	45.47	2.27	47.74	74.00	-26.26	V	Peak
6520.0000	44.49	4.60	49.09	74.00	-24.91	V	Peak
1375.0000	56.13	-7.94	48.19	74.00	-25.81	H	Peak
1720.0000	55.51	-9.14	46.37	74.00	-27.63	H	Peak
3760.0000	46.10	-2.59	43.51	74.00	-30.49	H	Peak
4285.0000	45.05	-1.26	43.79	74.00	-30.21	H	Peak
5320.0000	44.76	1.53	46.29	74.00	-27.71	H	Peak
6745.0000	44.39	5.31	49.70	74.00	-24.30	H	Peak

REMARKS:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode:	TX / IEEE 802.11n HT40 MHz (Antenna 1)/ CH Mid	**Test Date:**	April 23, 2013
Temperature:	24°C	**Tested by:**	Leevin Li
Humidity:	52% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1375.0000	55.63	-7.94	47.69	74.00	-26.31	V	Peak
3640.0000	45.77	-2.91	42.86	74.00	-31.14	V	Peak
4210.0000	45.43	-1.54	43.89	74.00	-30.11	V	Peak
5095.0000	45.02	1.43	46.45	74.00	-27.55	V	Peak
6010.0000	45.29	3.12	48.41	74.00	-25.59	V	Peak
6265.0000	44.57	3.88	48.45	74.00	-25.55	V	Peak
1375.0000	57.46	-7.94	49.52	74.00	-24.48	H	Peak
3805.0000	46.62	-2.49	44.13	74.00	-29.87	H	Peak
4330.0000	45.47	-1.09	44.38	74.00	-29.62	H	Peak
4915.0000	45.93	0.93	46.86	74.00	-27.14	H	Peak
5665.0000	44.81	2.21	47.02	74.00	-26.98	H	Peak
5890.0000	45.34	2.92	48.26	74.00	-25.74	H	Peak

REMARKS:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode:	TX / IEEE 802.11n HT40 MHz (Antenna 1) / CH High	**Test Date:**	April 23, 2013
Temperature:	24°C	**Tested by:**	Leevin Li
Humidity:	52% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1375.0000	55.49	-7.94	47.55	74.00	-26.45	V	Peak
2995.0000	46.98	-4.26	42.72	74.00	-31.28	V	Peak
4165.0000	46.19	-1.75	44.44	74.00	-29.56	V	Peak
4840.0000	44.73	0.59	45.32	74.00	-28.68	V	Peak
5680.0000	45.47	2.27	47.74	74.00	-26.26	V	Peak
6520.0000	44.49	4.60	49.09	74.00	-24.91	V	Peak
1375.0000	56.13	-7.94	48.19	74.00	-25.81	H	Peak
1720.0000	55.51	-9.14	46.37	74.00	-27.63	H	Peak
3760.0000	46.10	-2.59	43.51	74.00	-30.49	H	Peak
4285.0000	45.05	-1.26	43.79	74.00	-30.21	H	Peak
5320.0000	44.76	1.53	46.29	74.00	-27.71	H	Peak
6745.0000	44.39	5.31	49.70	74.00	-24.30	H	Peak

REMARKS:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode:	TX / IEEE 802.11n HT40 MHz (Antenna 2)/ CH Low	**Test Date:**	April 23, 2013
Temperature:	24°C	**Tested by:**	Leevin Li
Humidity:	52% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1375.0000	56.52	-7.94	48.58	74.00	-25.42	V	Peak
1495.0000	54.66	-8.23	46.43	74.00	-27.57	V	Peak
3235.0000	55.82	-4.07	51.75	74.00	-22.25	V	Peak
3880.0000	46.62	-2.51	44.11	74.00	-29.89	V	Peak
4975.0000	45.45	1.21	46.66	74.00	-27.34	V	Peak
5695.0000	46.05	2.33	48.38	74.00	-25.62	V	Peak
1375.0000	58.02	-7.94	50.08	74.00	-23.92	H	Peak
3235.0000	49.15	-4.07	45.08	74.00	-28.92	H	Peak
3760.0000	45.55	-2.59	42.96	74.00	-31.04	H	Peak
4945.0000	45.35	1.07	46.42	74.00	-27.58	H	Peak
5200.0000	44.87	1.55	46.42	74.00	-27.58	H	Peak
6475.0000	44.22	4.47	48.69	74.00	-25.31	H	Peak

REMARKS:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode:	TX / IEEE 802.11n HT40 MHz (Antenna 2)/ CH Mid	**Test Date:**	April 23, 2013
Temperature:	24°C	**Tested by:**	Leevin Li
Humidity:	52% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1375.0000	56.23	-7.94	48.29	74.00	-25.71	V	Peak
2995.0000	46.97	-4.26	42.71	74.00	-31.29	V	Peak
3745.0000	46.28	-2.63	43.65	74.00	-30.35	V	Peak
4690.0000	45.48	-0.07	45.41	74.00	-28.59	V	Peak
5500.0000	44.65	1.73	46.38	74.00	-27.62	V	Peak
5755.0000	44.92	2.59	47.51	74.00	-26.49	V	Peak
1375.0000	56.90	-7.94	48.96	74.00	-25.04	H	Peak
2815.0000	48.45	-4.98	43.47	74.00	-30.53	H	Peak
3910.0000	46.07	-2.51	43.56	74.00	-30.44	H	Peak
4435.0000	45.34	-0.76	44.58	74.00	-29.42	H	Peak
5320.0000	45.04	1.53	46.57	74.00	-27.43	H	Peak
6130.0000	44.47	3.48	47.95	74.00	-26.05	H	Peak

REMARKS:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode:	TX / IEEE 802.11n HT40 MHz (Antenna 2)/ CH High	**Test Date:**	April 23, 2013
Temperature:	24°C	**Tested by:**	Leevin Li
Humidity:	52% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1375.0000	54.80	-7.94	46.86	74.00	-27.14	V	Peak
3265.0000	54.31	-4.06	50.25	74.00	-23.75	V	Peak
4420.0000	44.86	-0.78	44.08	74.00	-29.92	V	Peak
4990.0000	45.32	1.27	46.59	74.00	-27.41	V	Peak
5995.0000	44.70	3.08	47.78	74.00	-26.22	V	Peak
6790.0000	44.63	5.47	50.10	74.00	-23.90	V	Peak
1375.0000	57.40	-7.94	49.46	74.00	-24.54	H	Peak
3265.0000	47.50	-4.06	43.44	74.00	-30.56	H	Peak
3760.0000	47.04	-2.59	44.45	74.00	-29.55	H	Peak
4930.0000	45.72	1.00	46.72	74.00	-27.28	H	Peak
5620.0000	44.80	2.02	46.82	74.00	-27.18	H	Peak
6880.0000	44.19	5.77	49.96	74.00	-24.04	H	Peak

REMARKS:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

7.3. 6dB BANDWIDTH MEASUREMENT

7.3.1. LIMITS

According to §15.247(a)(2), systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

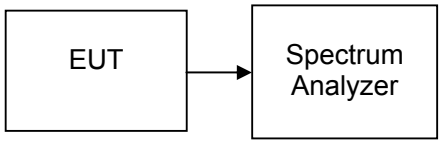
7.3.2. TEST INSTRUMENTS

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Calibration Due
Spectrum Analyzer	Agilent	E4446A	US44300399	03/09/2013	03/08/2014

7.3.3. TEST PROCEDURES (please refer to measurement standard)

1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW = 1-5 % of the emission bandwidth (EBW), VBW = ≥ 3 x RBW, Sweep = auto.
4. Mark the peak frequency and –6dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.

7.3.4. TEST SETUP



7.3.5. TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b (Antenna 2)

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2412	8086	>500	PASS
Mid	2437	8131		PASS
High	2462	8075		PASS

Test mode: IEEE 802.11g (Antenna 1)

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2412	15141	>500	PASS
Mid	2437	15131		PASS
High	2462	15162		PASS

Test mode: IEEE 802.11g (Antenna 2)

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2412	15096	>500	PASS
Mid	2437	15141		PASS
High	2462	15145		PASS

Test mode: IEEE 802.11n HT20 MHz (Antenna 1)

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2412	15136	>500	PASS
Mid	2437	15136		PASS
High	2462	15136		PASS

Test mode: IEEE 802.11n HT20 MHz (Antenna 2)

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2412	15144	>500	PASS
Mid	2437	15130		PASS
High	2462	15126		PASS

Test mode: IEEE 802.11n HT40 MHz (Antenna 1)

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2422	35478	>500	PASS
Mid	2437	35754		PASS
High	2452	35734		PASS

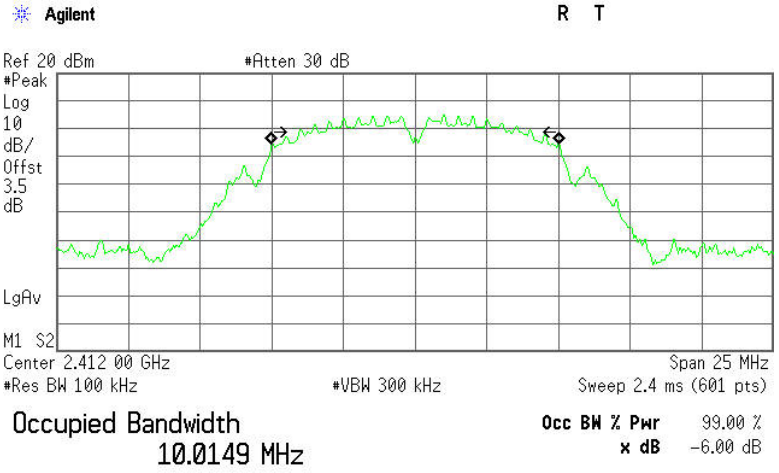
Test mode: IEEE 802.11n HT40 MHz (Antenna 2)

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2422	35189	>500	PASS
Mid	2437	35718		PASS
High	2452	35712		PASS

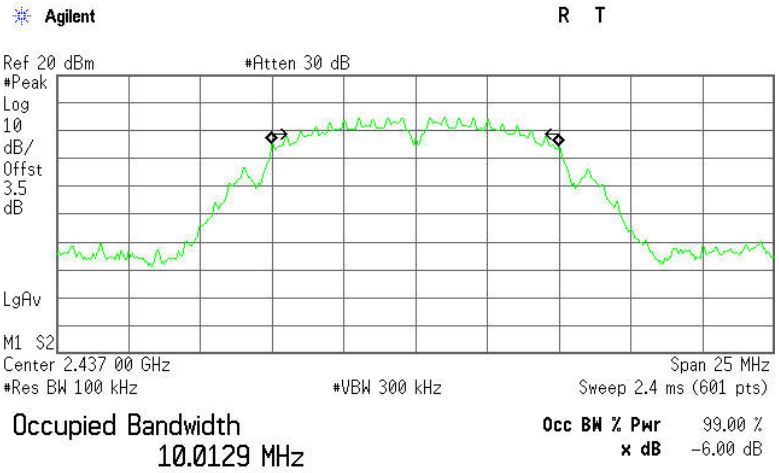
Test Plot

IEEE 802.11b (Antenna 2)mode

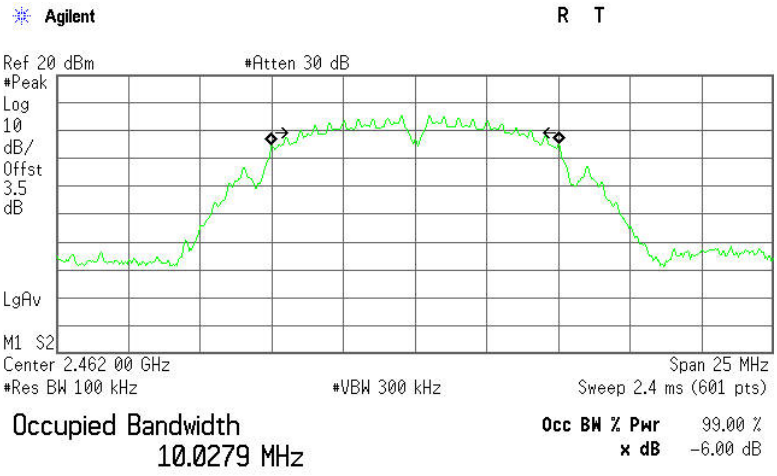
6dB Bandwidth (CH Low)



6dB Bandwidth (CH Mid)

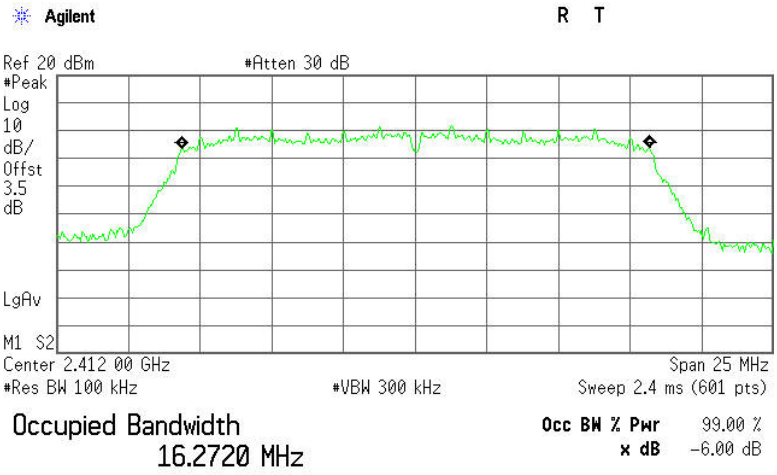


6dB Bandwidth (CH High)

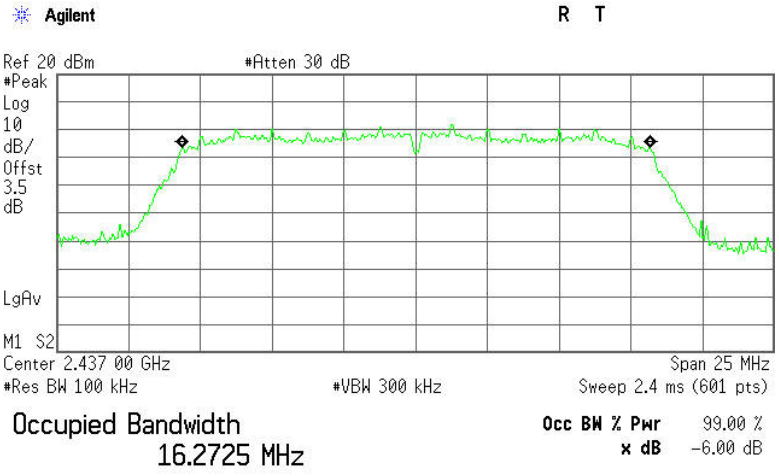


IEEE 802.11g (Antenna 1) mode

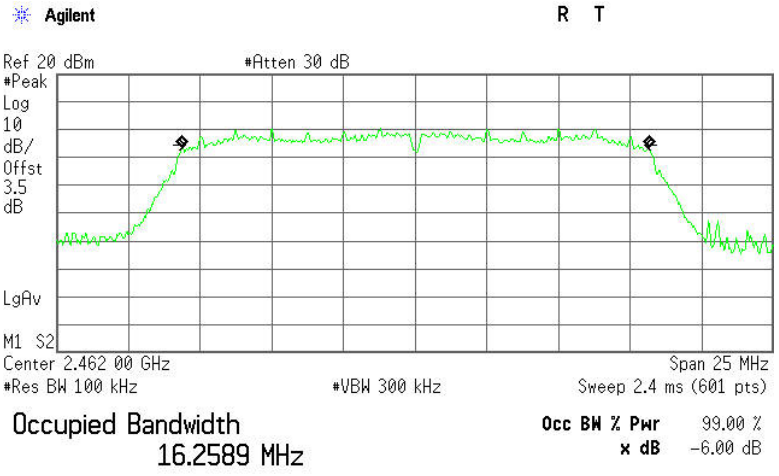
6dB Bandwidth (CH Low)



6dB Bandwidth (CH Mid)

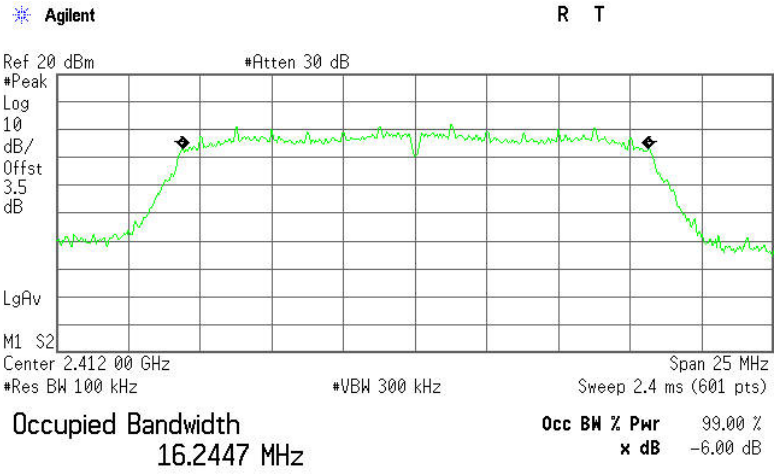


6dB Bandwidth (CH High)

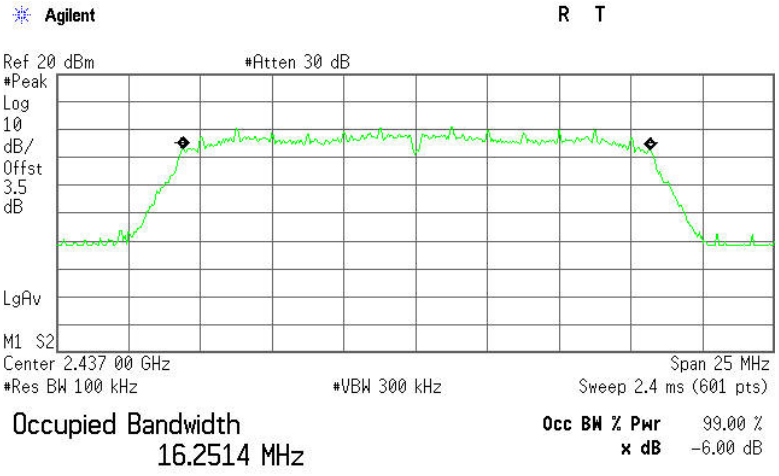


IEEE 802.11g (Antenna 2) mode

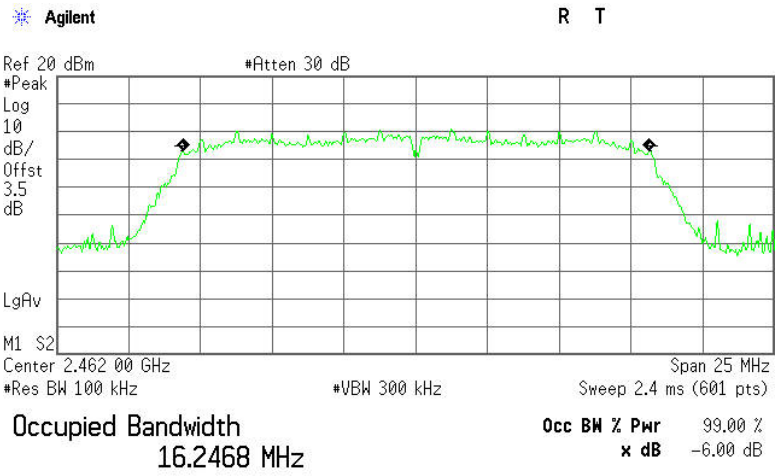
6dB Bandwidth (CH Low)



6dB Bandwidth (CH Mid)



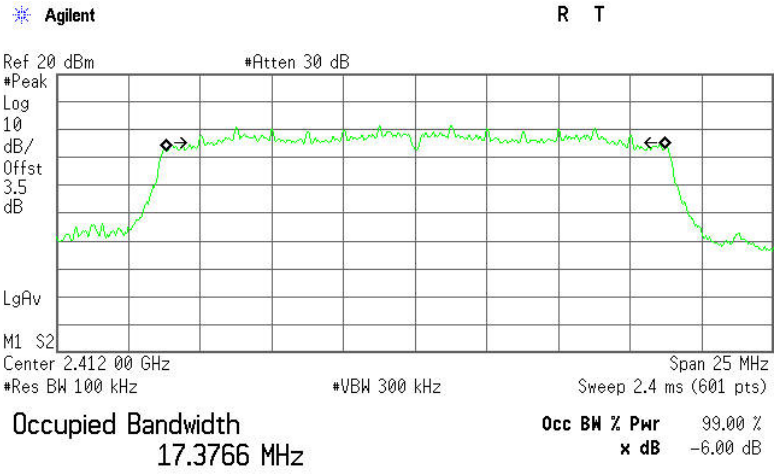
6dB Bandwidth (CH High)



Transmit Freq Error 21.761 kHz
x dB Bandwidth 15.145 MHz

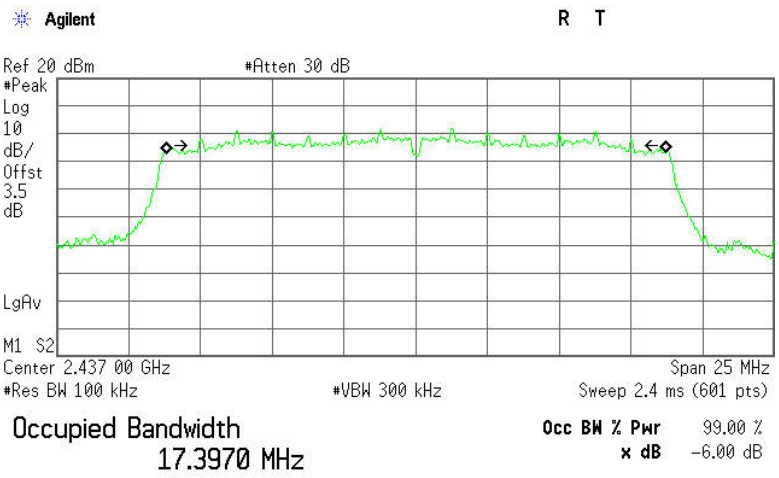
IEEE 802.11n HT20 MHz (Antenna 1)mode

6dB Bandwidth (CH Low)



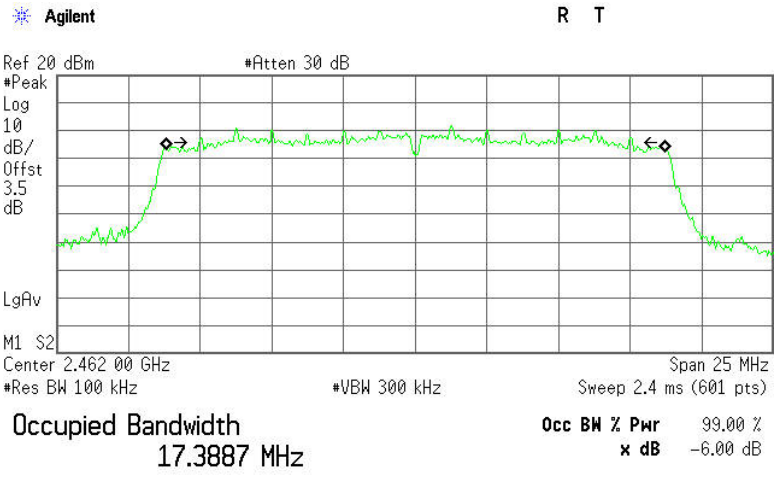
Transmit Freq Error 21.606 kHz
x dB Bandwidth 15.136 MHz

6dB Bandwidth (CH Mid)



Transmit Freq Error 19.959 kHz
x dB Bandwidth 15.136 MHz

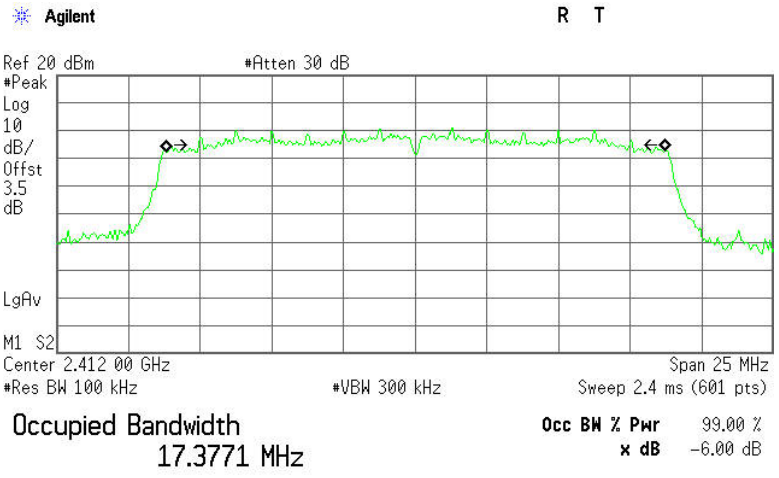
6dB Bandwidth (CH High)



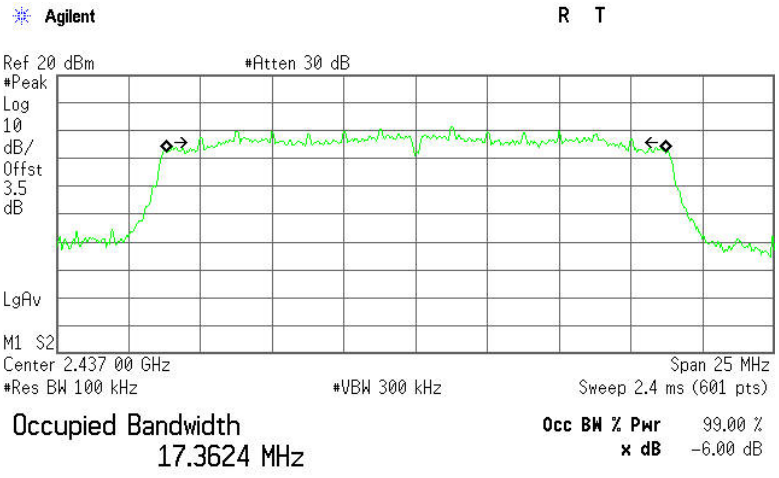
Transmit Freq Error 15.048 kHz
x dB Bandwidth 15.136 MHz

IEEE 802.11n HT20 MHz (Antenna 2)mode

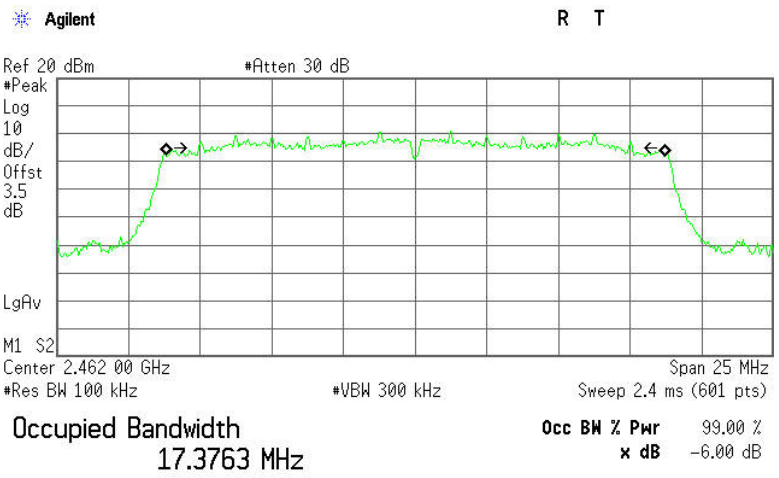
6dB Bandwidth (CH Low)



6dB Bandwidth (CH Mid)



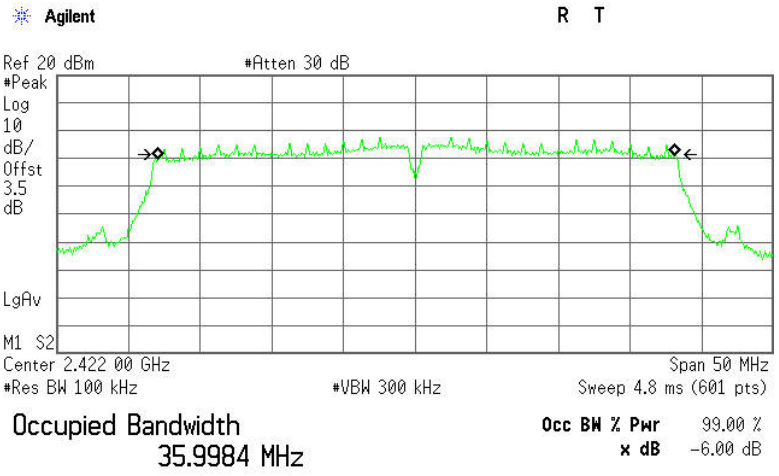
6dB Bandwidth (CH High)



Transmit Freq Error	18.822 kHz
x dB Bandwidth	15.126 MHz

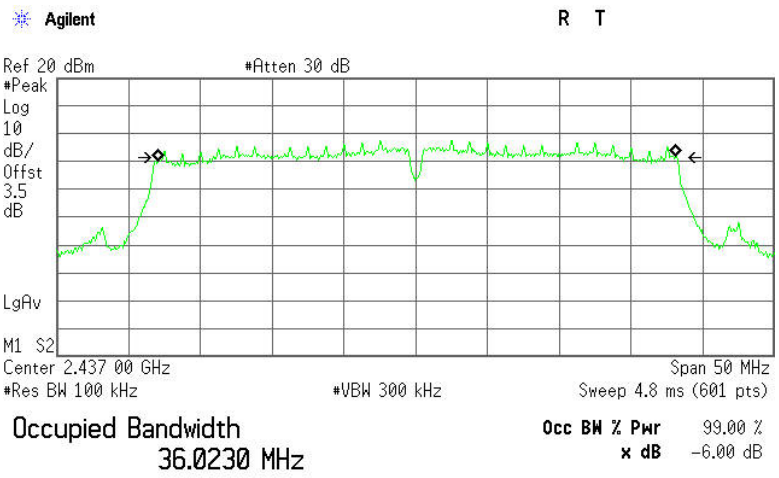
IEEE 802.11n HT40 MHz (Antenna 1) mode

6dB Bandwidth (CH Low)



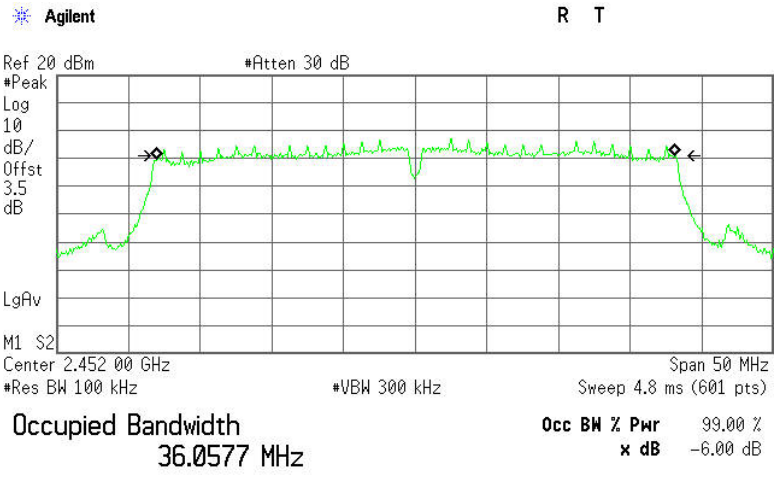
Transmit Freq Error	80.573 kHz
x dB Bandwidth	35.478 MHz

6dB Bandwidth (CH Mid)



Transmit Freq Error	79.208 kHz
x dB Bandwidth	35.754 MHz

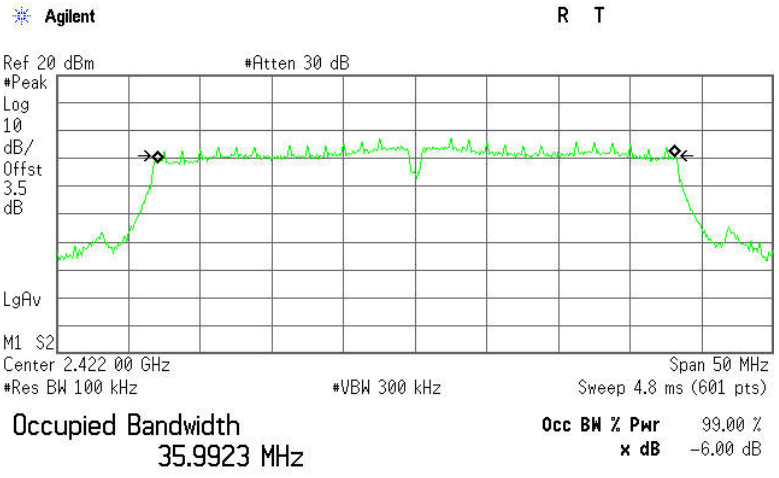
6dB Bandwidth (CH High)



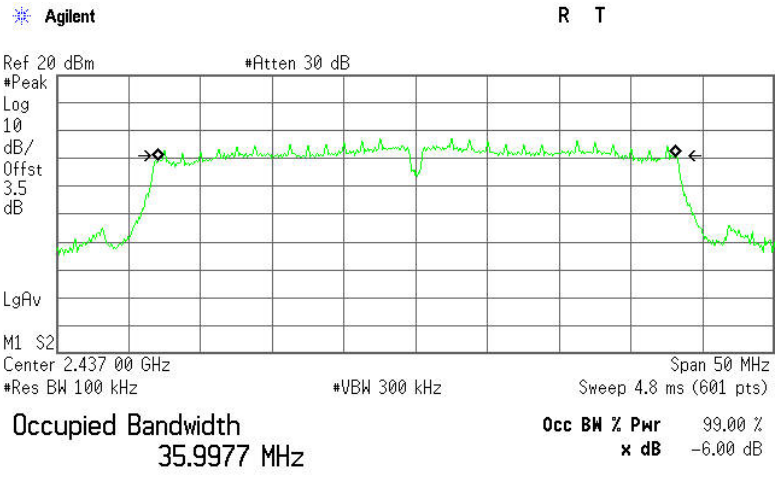
Transmit Freq Error	67.876 kHz
x dB Bandwidth	35.734 MHz

IEEE 802.11n HT40 MHz (Antenna 2) mode

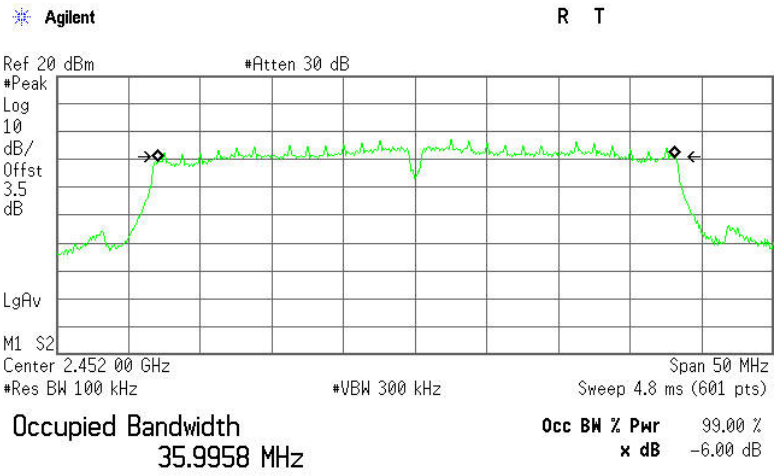
6dB Bandwidth (CH Low)



6dB Bandwidth (CH Mid)



6dB Bandwidth (CH High)



7.4. PEAK OUTPUT POWER

7.4.1. LIMITS

The maximum peak output power of the intentional radiator shall not exceed the following:

1. According to §15.247(b)(3), for systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 Watt.

2. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

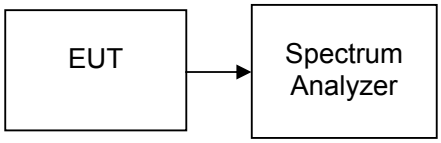
7.4.2. TEST INSTRUMENTS

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Calibration Due
Spectrum Analyzer	Agilent	E4446A	US44300399	03/09/2013	03/08/2014

7.4.3. TEST PROCEDURES (please refer to measurement standard)

1. This procedure provides an integrated measurement alternative when the maximum available RBW < EBW.
2. Set the RBW = 1 MHz.
3. Set the VBW = 3 MHz.
4. Set the span to a value that is 5-30 % greater than the EBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the spectrum analyzer's integrated band power measurement function with band limits set equal to the EBW band edges(for some analyzers, this may require a manual overrideto ensure use of peak detector). If the spectrum analyzer does not have a band power function, sum the spectrum levels (in linear power units) at 1 MHz intervals extending across the EBW of the spectrum.

7.4.4. TEST SETUP



7.4.5. TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b (Antenna 2)

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2412	16.62	0.04592	1	PASS
Mid	2437	16.61	0.04581		PASS
High	2462	16.80	0.04786		PASS

Test mode: IEEE 802.11g (Antenna 1)

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2412	13.47	0.02223	1	PASS
Mid	2437	13.69	0.02339		PASS
High	2462	13.29	0.02133		PASS

Test mode: IEEE 802.11g (Antenna 2)

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2412	13.30	0.02138	1	PASS
Mid	2437	12.92	0.01959		PASS
High	2462	13.31	0.02143		PASS

Test mode: IEEE 802.11n HT20 MHz (Antenna 1)

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2412	13.47	0.02223	1	PASS
Mid	2437	13.56	0.02270		PASS
High	2462	13.30	0.02138		PASS

Test mode: IEEE 802.11n HT20 MHz (Antenna 2)

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2412	13.10	0.02042	1	PASS
Mid	2437	12.90	0.01950		PASS
High	2462	13.28	0.02128		PASS

Test mode: IEEE 802.11n HT40 MHz (Antenna 1)

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2422	12.08	0.01614	1	PASS
Mid	2437	12.24	0.01675		PASS
High	2452	12.36	0.01722		PASS

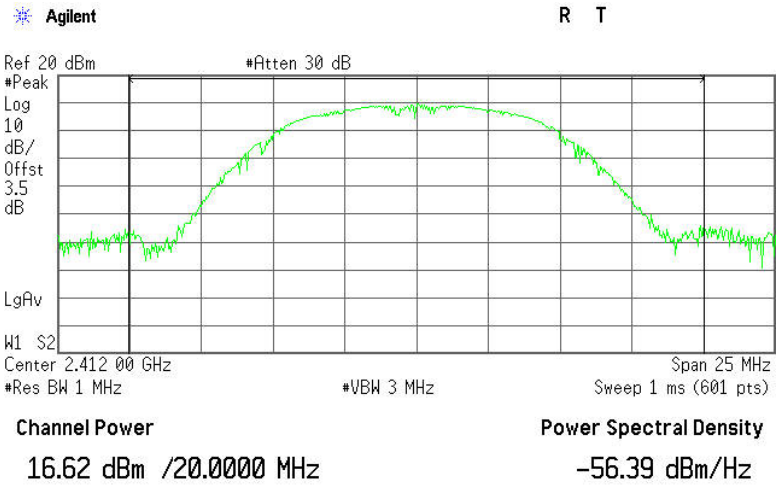
Test mode: IEEE 802.11n HT40 MHz (Antenna 2)

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2422	12.21	0.01663	1	PASS
Mid	2437	12.17	0.01648		PASS
High	2452	12.59	0.01816		PASS

Test Plot

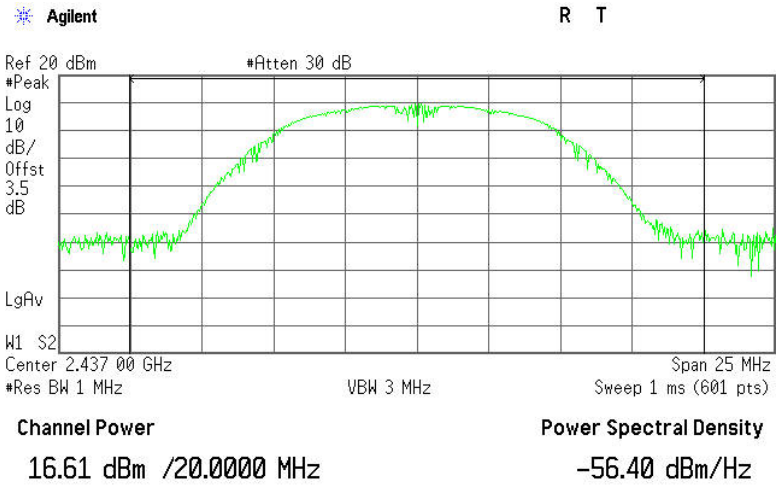
IEEE 802.11b(Antenna 2) mode

Peak power (CH Low)



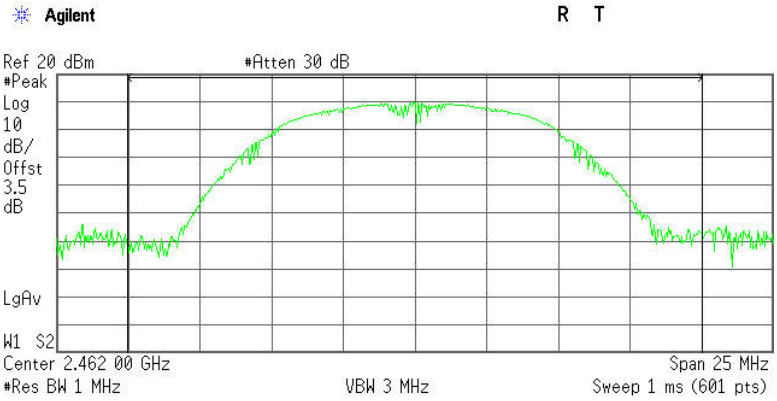
Channel Power	Power Spectral Density
16.62 dBm /20.0000 MHz	-56.39 dBm/Hz

Peak power (CH Mid)



Channel Power	Power Spectral Density
16.61 dBm /20.0000 MHz	-56.40 dBm/Hz

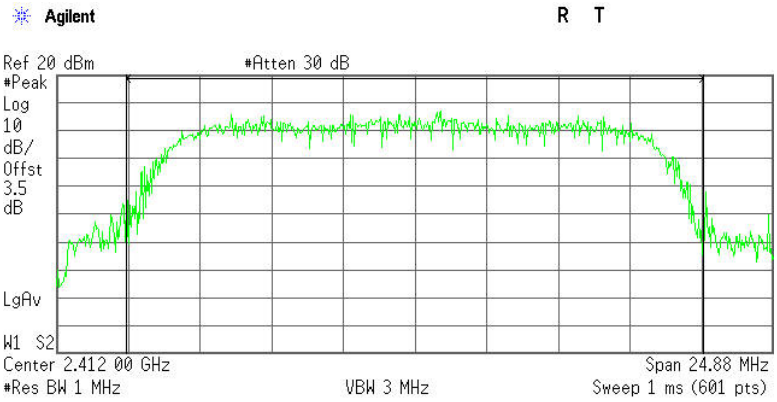
Peak power (CH High)



Channel Power	Power Spectral Density
16.80 dBm /20.0000 MHz	-56.21 dBm/Hz

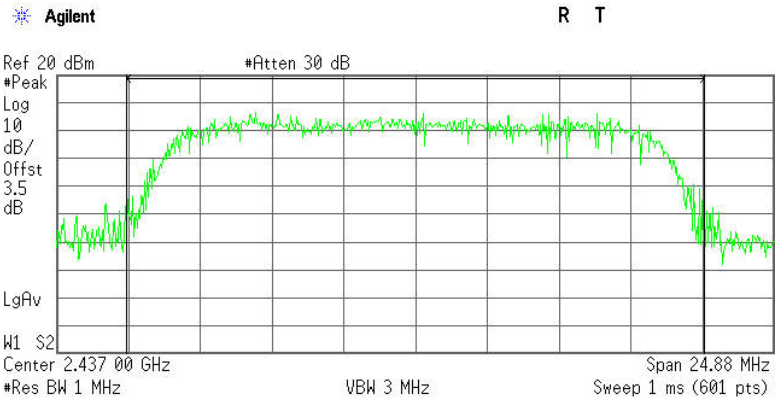
IEEE 802.11g (Antenna 1)mode

Peak power (CH Low)



Channel Power	Power Spectral Density
13.47 dBm /20.0000 MHz	-59.54 dBm/Hz

Peak power (CH Mid)



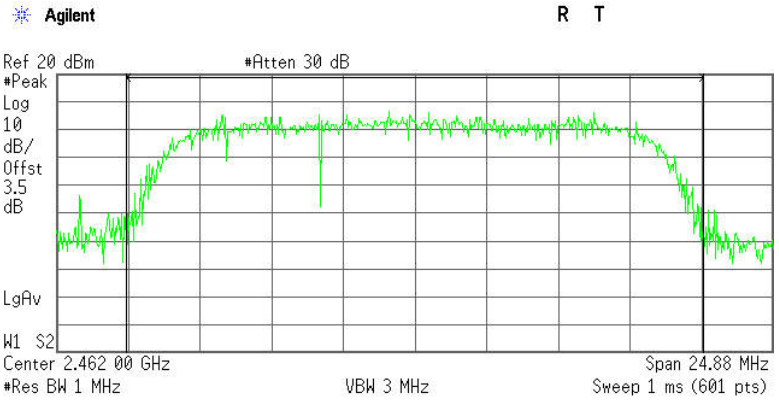
Channel Power

13.69 dBm /20.0000 MHz

Power Spectral Density

-59.32 dBm/Hz

Peak power (CH High)



Channel Power

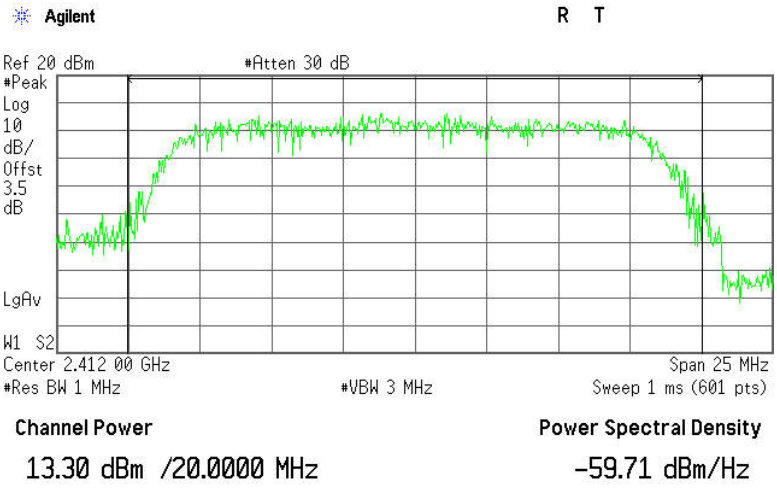
13.29 dBm /20.0000 MHz

Power Spectral Density

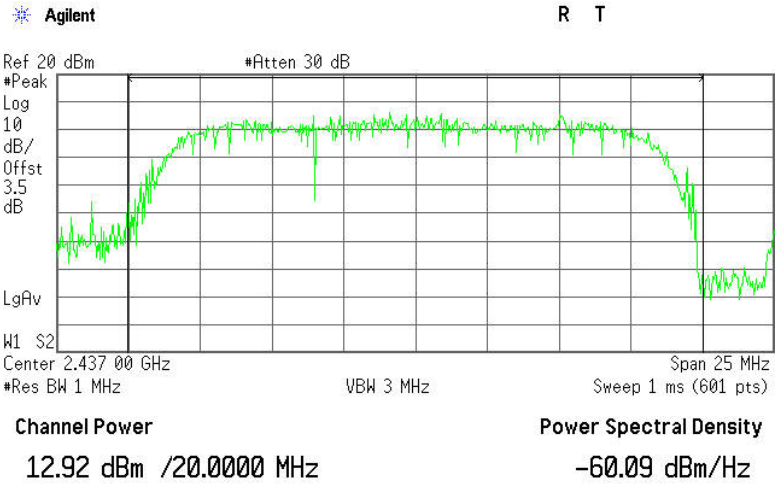
-59.72 dBm/Hz

IEEE 802.11g (Antenna 2)mode

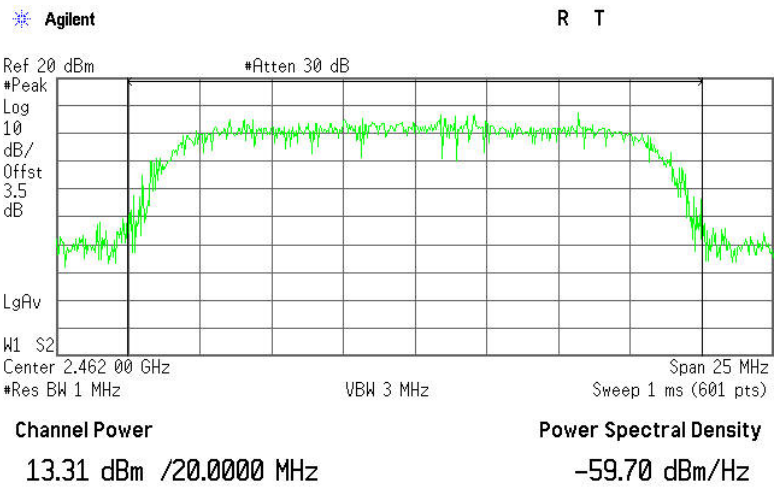
Peak power (CH Low)



Peak power (CH Mid)



Peak power (CH High)



Channel Power

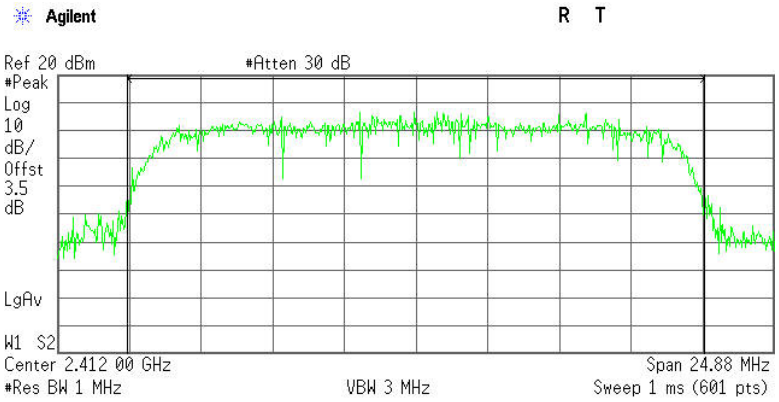
13.31 dBm /20.0000 MHz

Power Spectral Density

-59.70 dBm/Hz

IEEE 802.11n HT20 MHz (Antenna 1)mode

Peak power (CH Low)



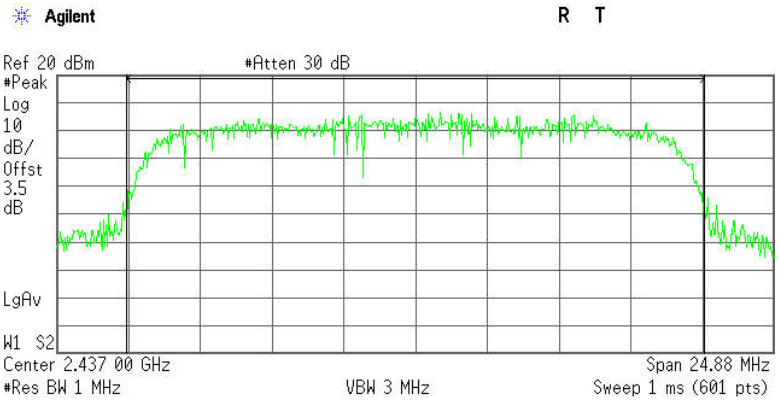
Channel Power

13.47 dBm /20.0000 MHz

Power Spectral Density

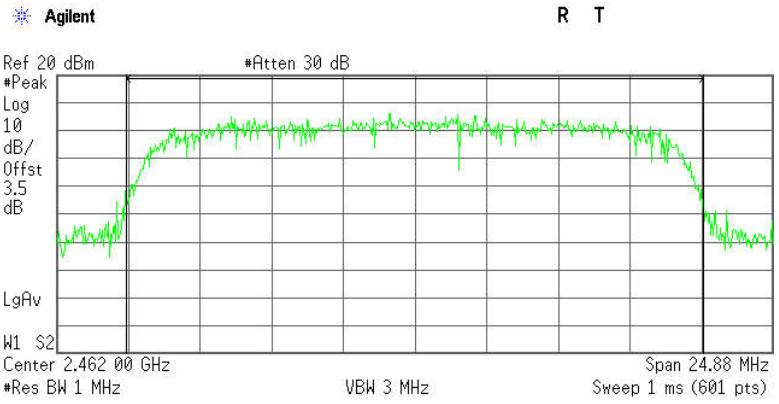
-59.54 dBm/Hz

Peak power (CH Mid)



Channel Power	Power Spectral Density
13.56 dBm /20.0000 MHz	-59.45 dBm/Hz

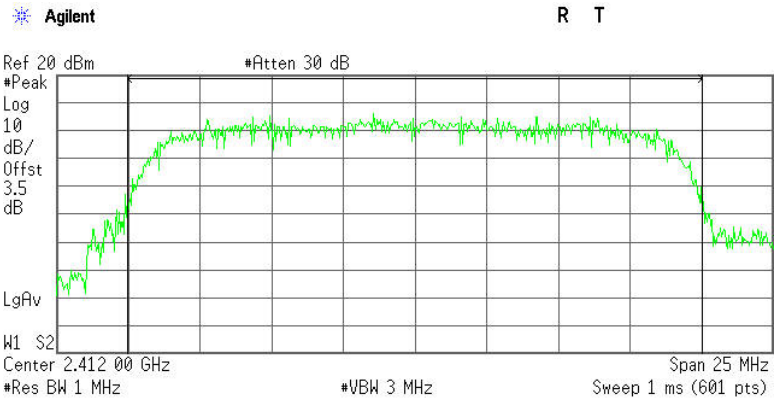
Peak power (CH High)



Channel Power	Power Spectral Density
13.30 dBm /20.0000 MHz	-59.71 dBm/Hz

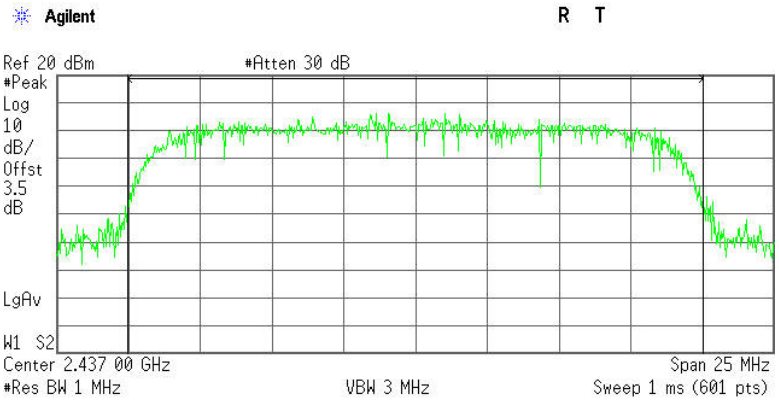
IEEE 802.11n HT20 MHz (Antenna 2)mode

Peak power (CH Low)



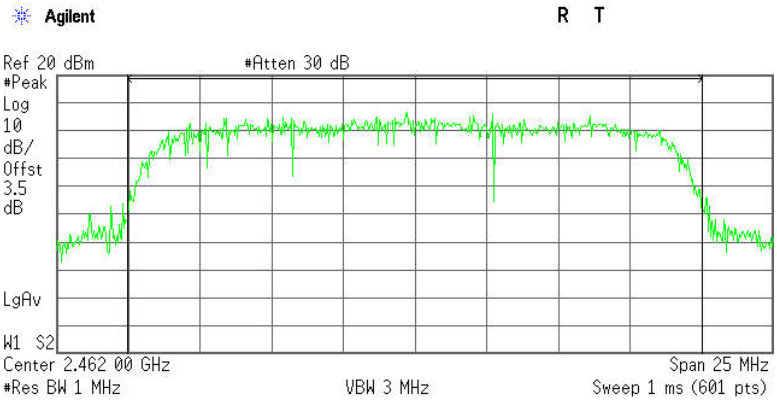
Channel Power	Power Spectral Density
13.10 dBm /20.0000 MHz	-59.91 dBm/Hz

Peak power (CH Mid)



Channel Power	Power Spectral Density
12.90 dBm /20.0000 MHz	-60.11 dBm/Hz

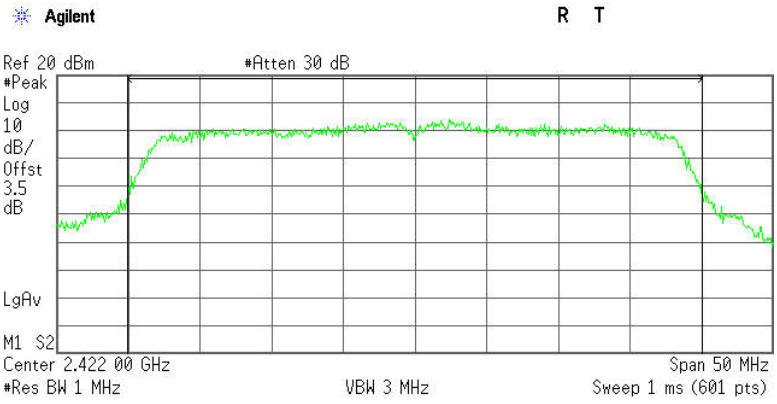
Peak power (CH High)



Channel Power	Power Spectral Density
13.28 dBm /20.0000 MHz	-59.74 dBm/Hz

IEEE 802.11n HT40 MHz (Antenna 1)mode

Peak power (CH Low)



Channel Power	Power Spectral Density
12.08 dBm /40.0000 MHz	-63.94 dBm/Hz