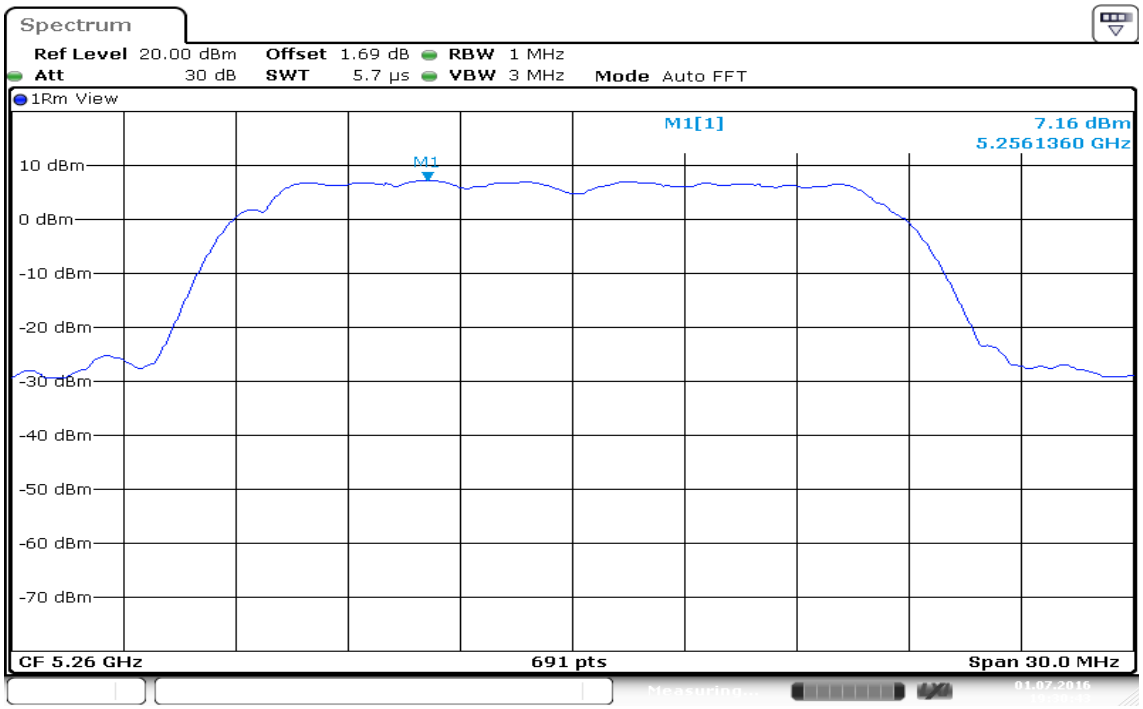
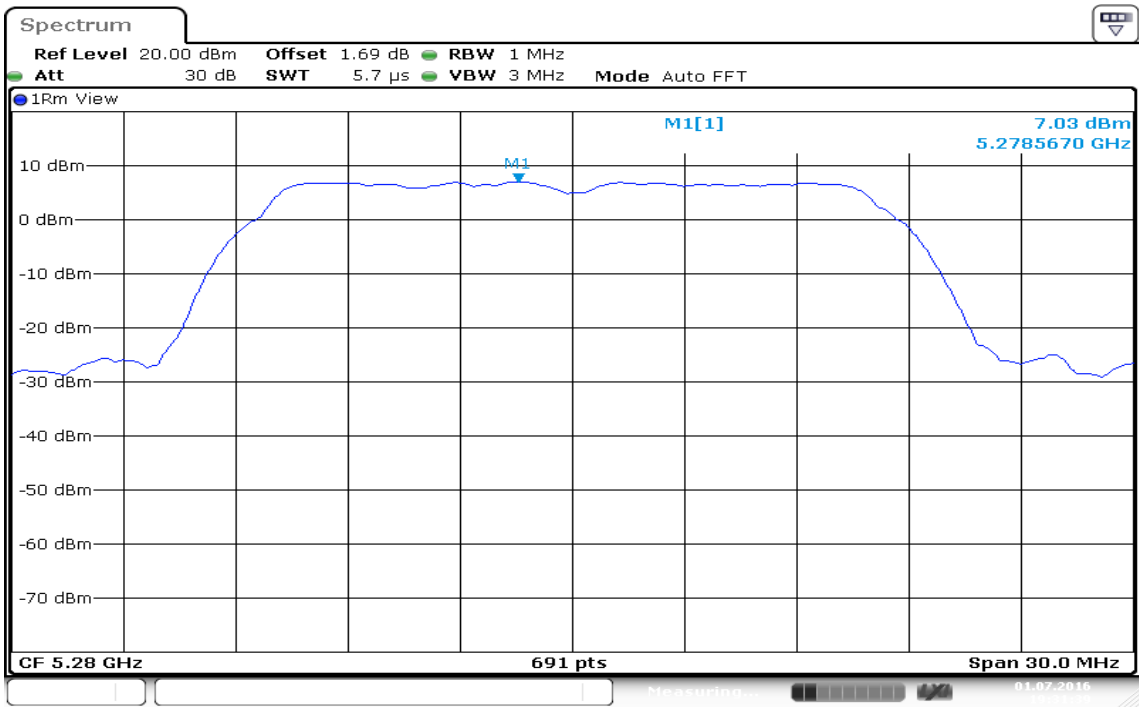
IEEE 802.11a mode / 5260 ~ 5320MHz

CH Low



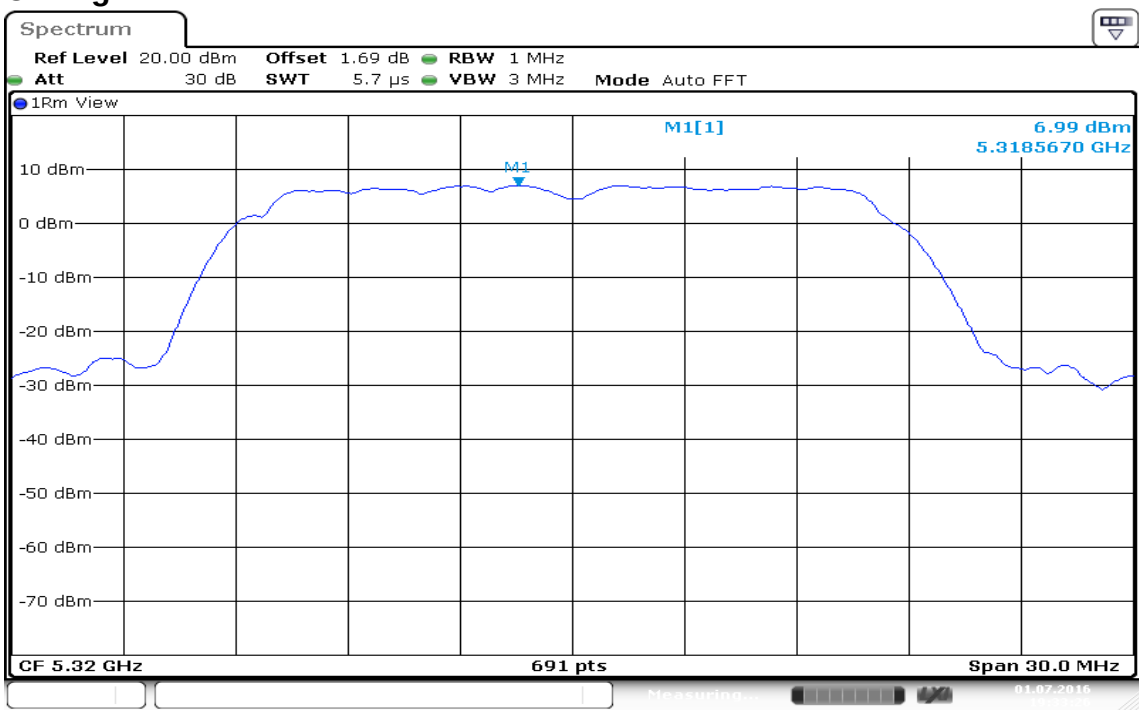
Date: 1.JUL.2016 19:30:43

CH Mid



Date: 1.JUL.2016 19:31:39

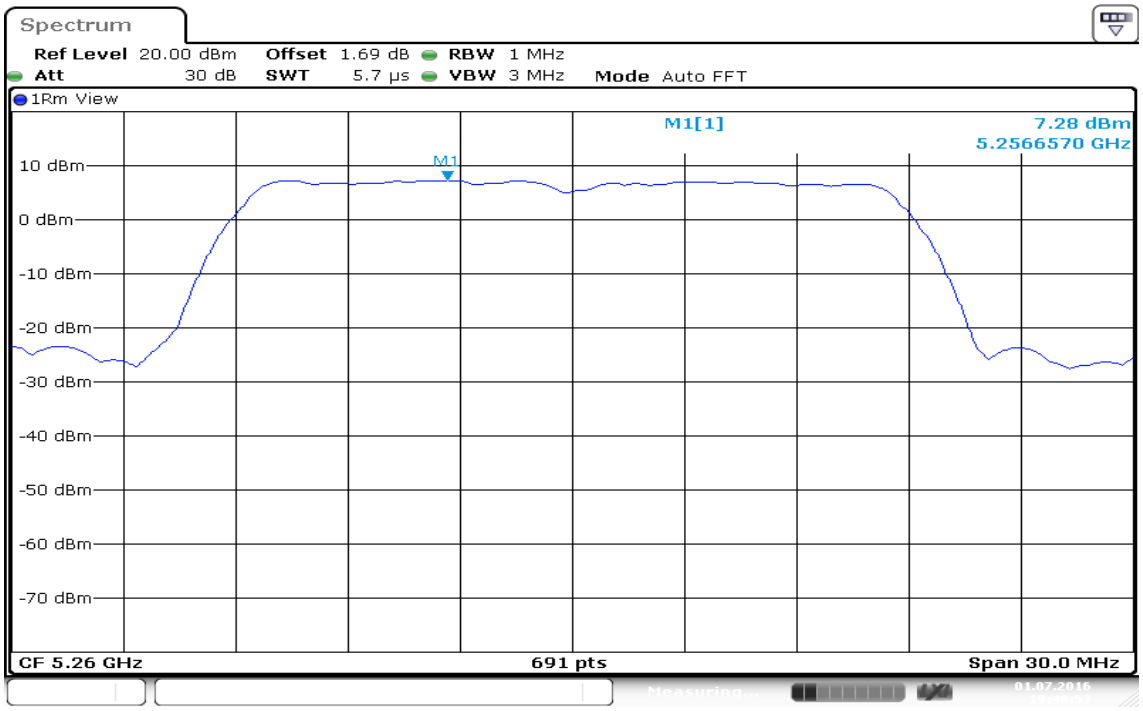
CH High



Date: 1.JUL.2016 19:33:26

IEEE 802.11n HT 20 MHz mode / 5260 ~ 5320MHz

CH Low



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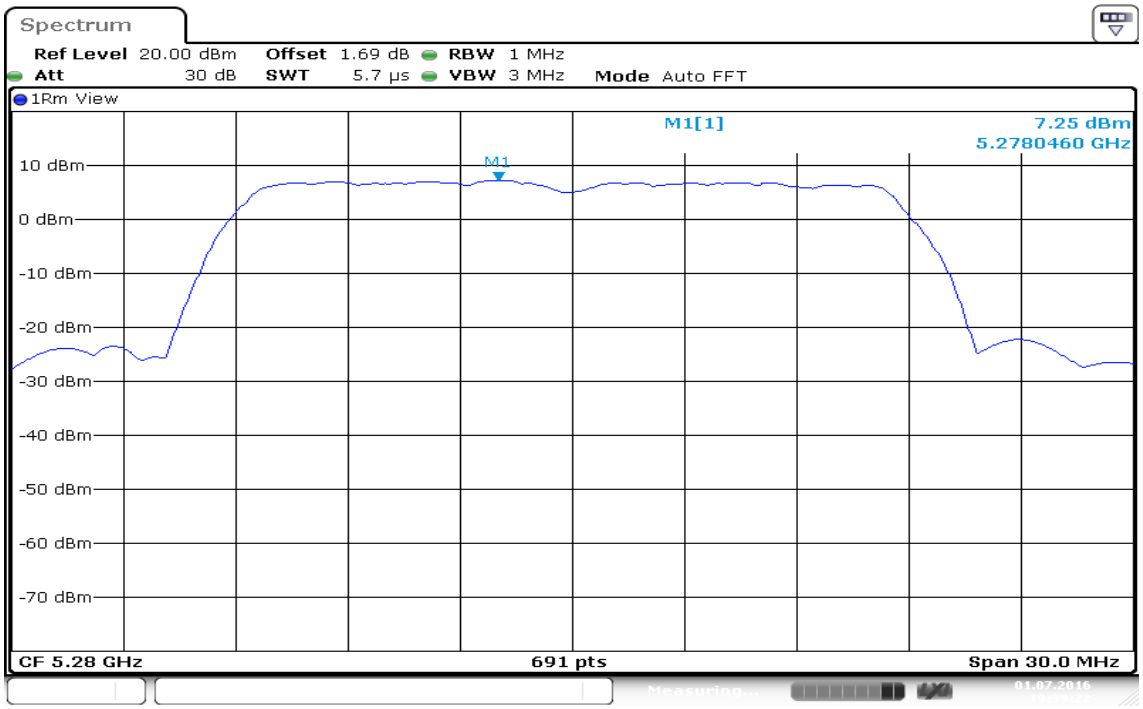
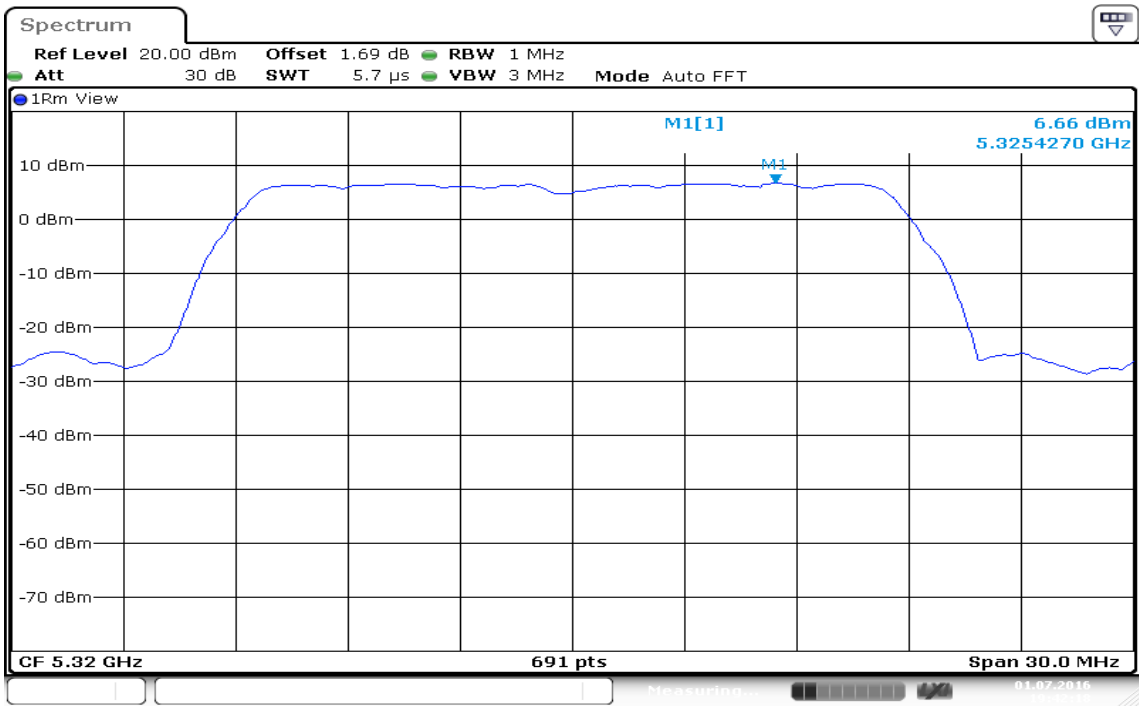
CH Mid



Date: 1.JUL.2016 19:39:22

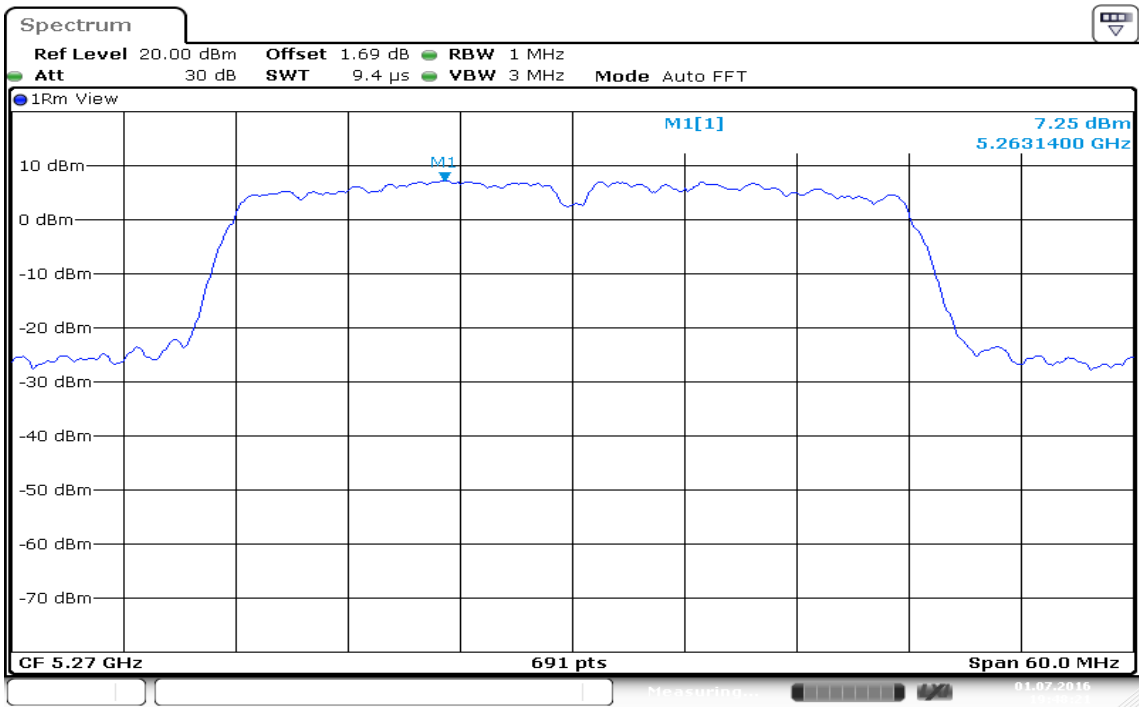
CH High



Date: 1.JUL.2016 19:42:18

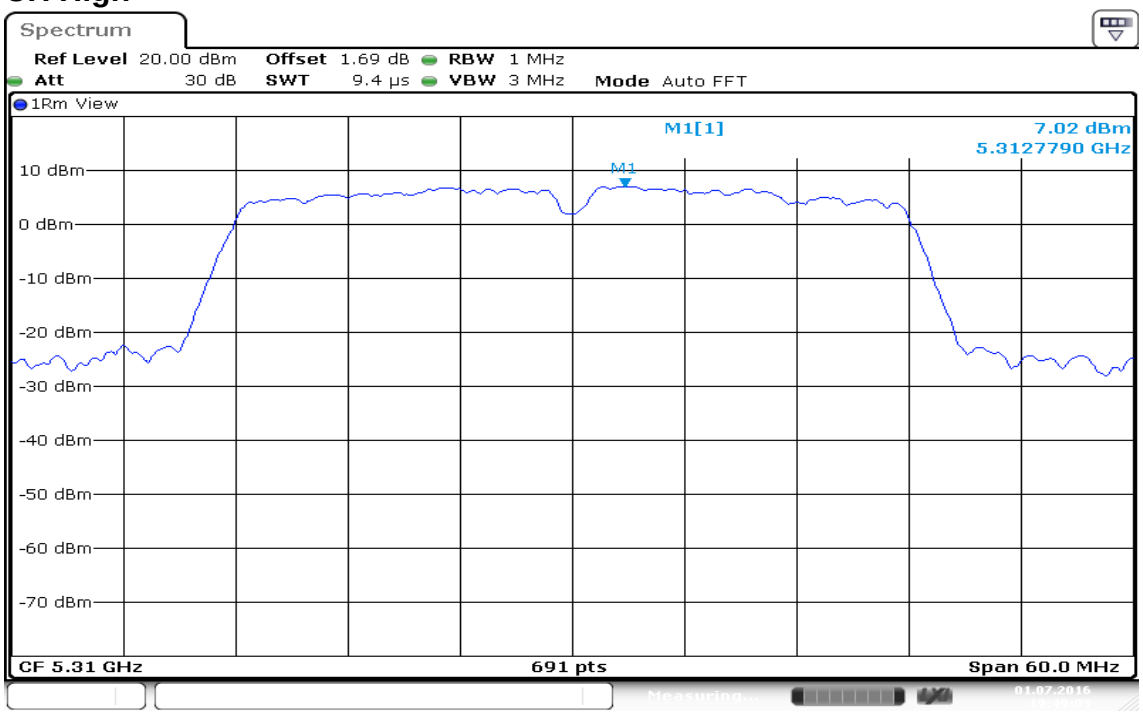
IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz

CH Low



Date: 1.JUL.2016 19:48:21

CH High



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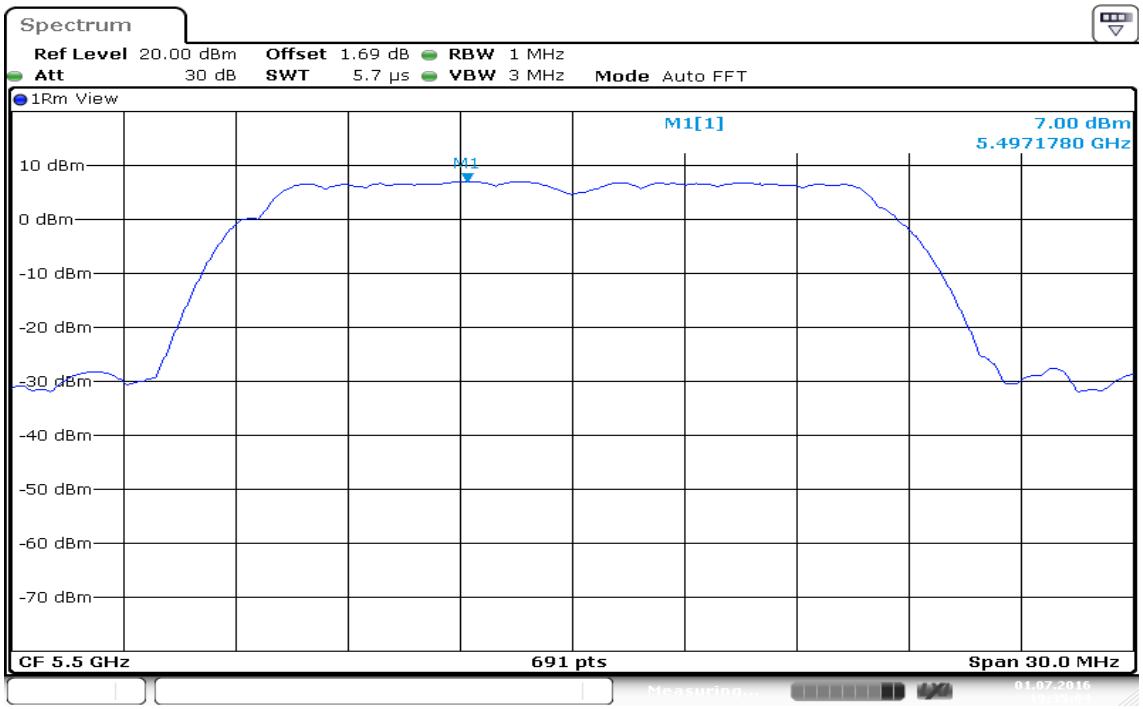
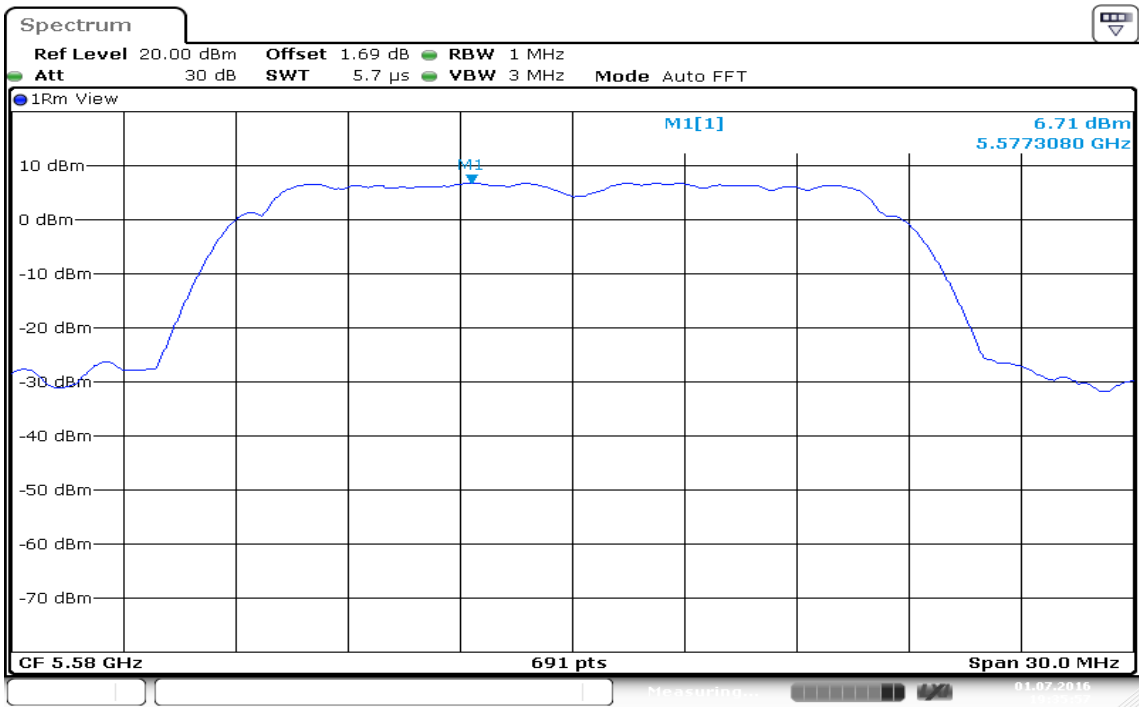
Test mode: IEEE 802.11a mode / 5500 ~ 5700MHz

CH Low



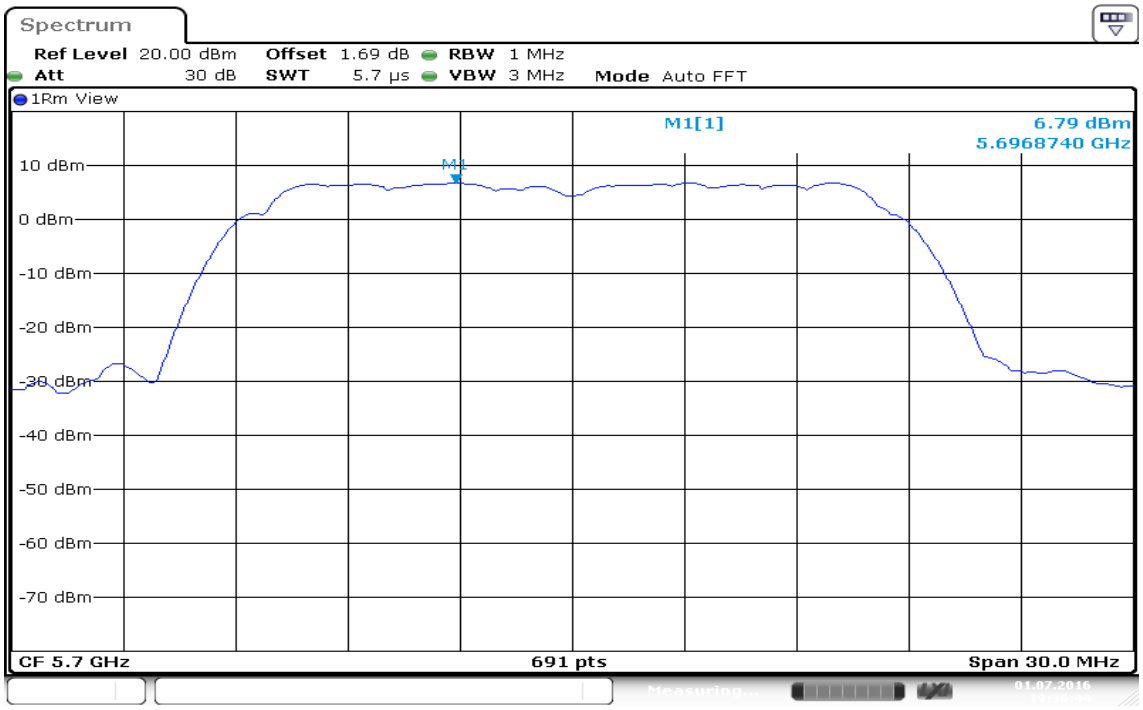
Date: 1.JUL.2016 19:35:04

CH Mid



Date: 1.JUL.2016 19:35:57

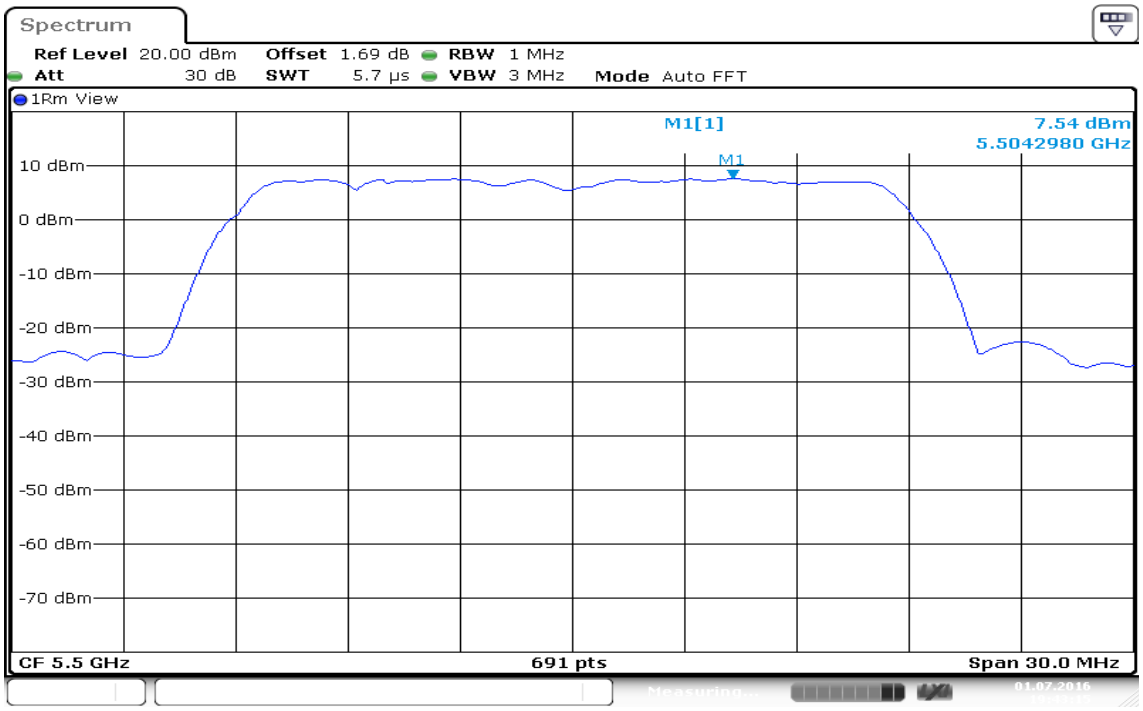
CH High



Date: 1.JUL.2016 19:36:44

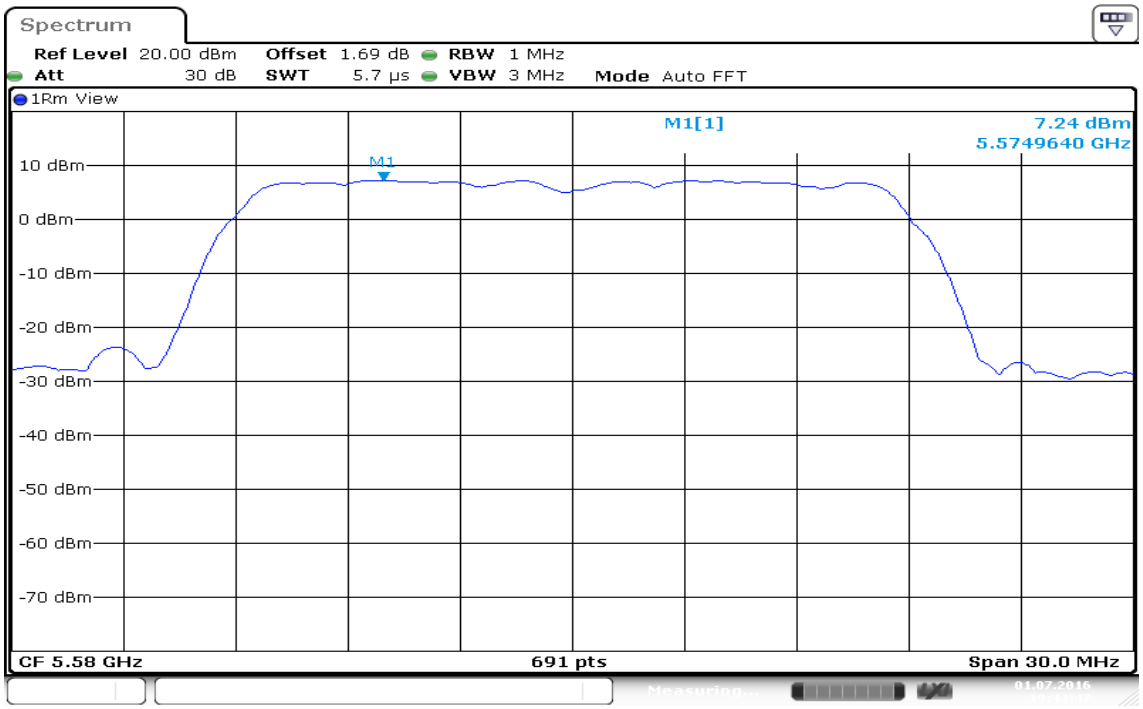
IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz

CH Low



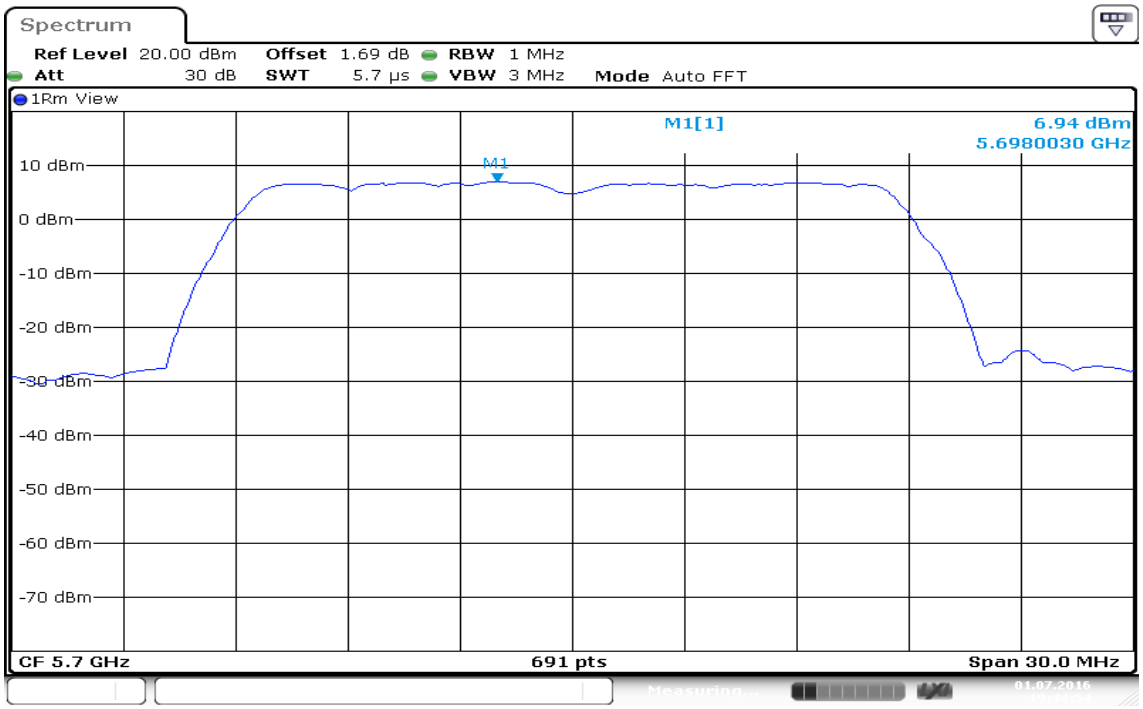
Date: 1.JUL.2016 19:43:16

CH Mid



Date: 1.JUL.2016 19:43:47

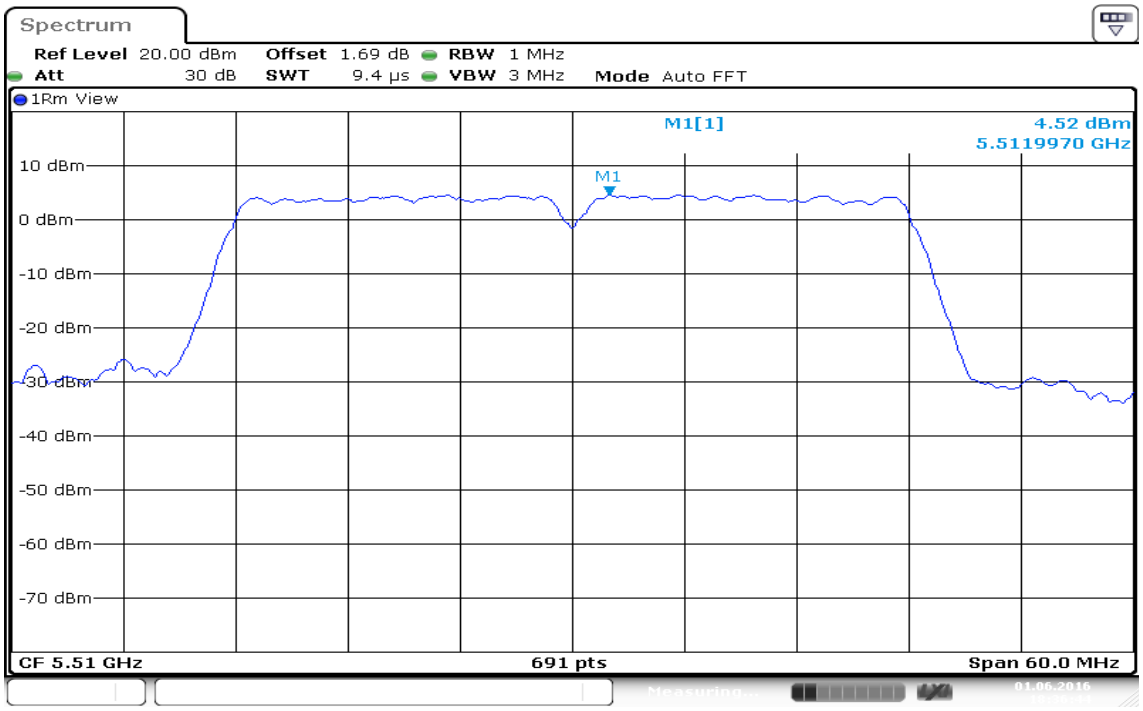
CH High



Date: 1.JUL.2016 19:44:54

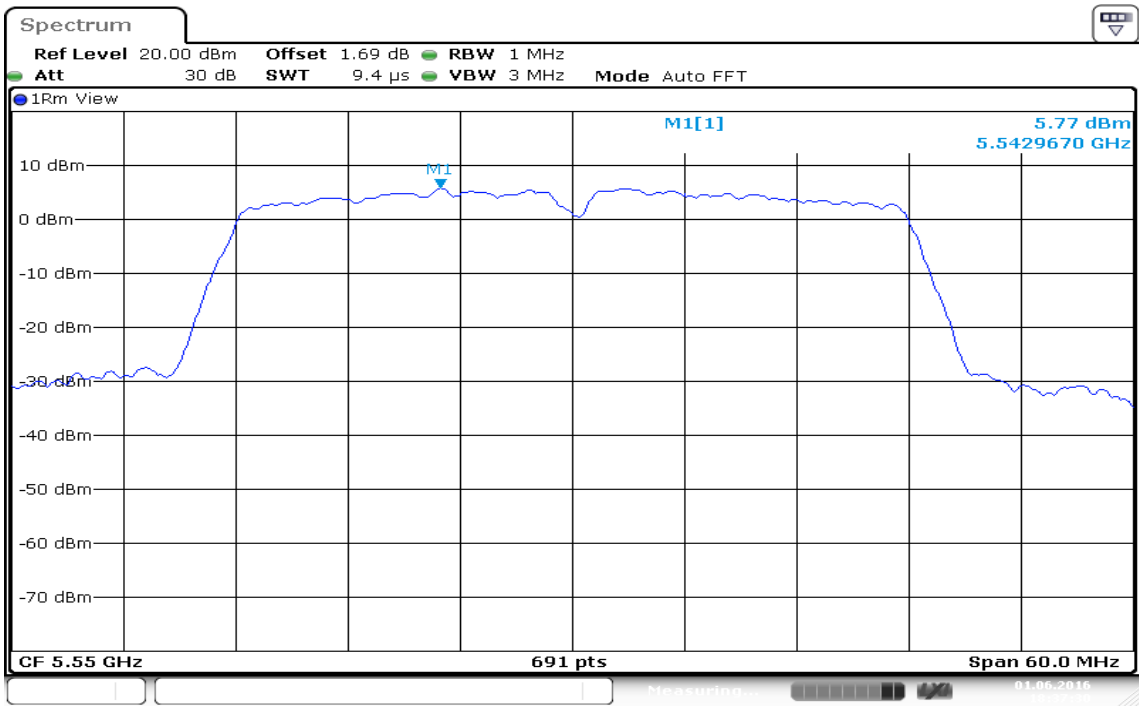
IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz

CH Low



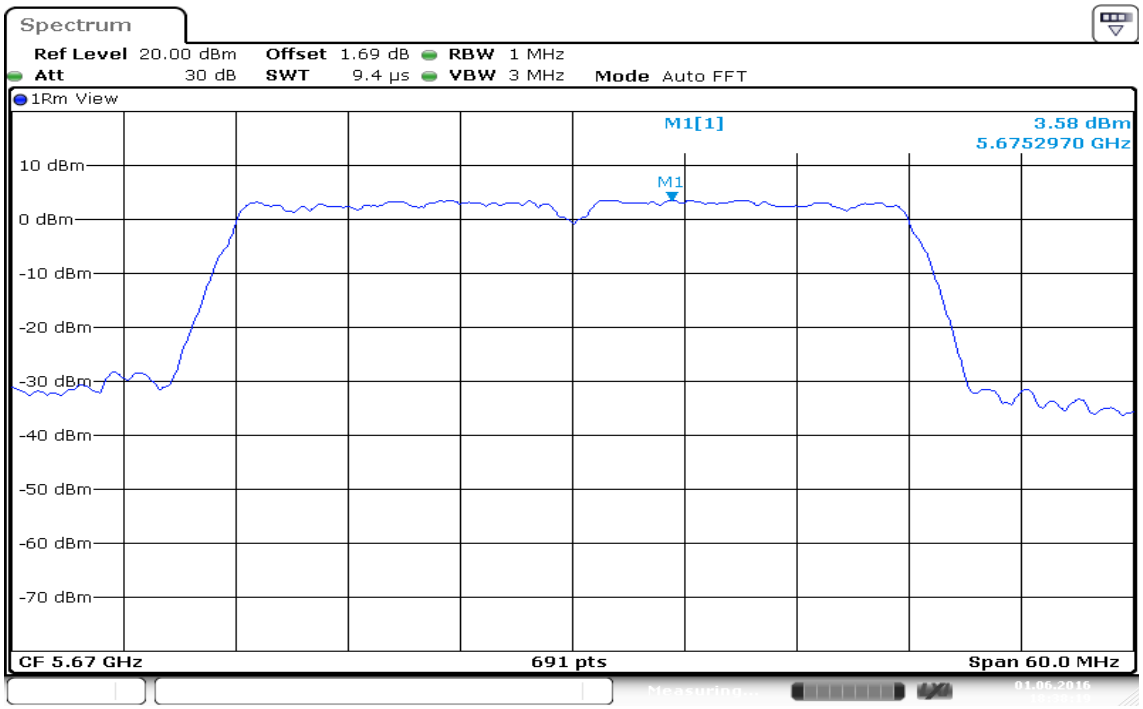
Date: 1.JUN.2016 18:36:45

CH Mid



Date: 1.JUN.2016 18:37:30

CH High



Date: 1.JUN.2016 18:38:19

7.6 RADIATED UNDESIRABLE EMISSION

limit

All spurious emissions shall comply with the limits of §15.209(a) and RSS-Gen Table 2 & Table 5.

RSS-Gen Table 2 & Table 5: General Field Strength Limits for Transmitters and Receivers at Frequencies Above 30 MHz (Note)

Frequency (MHz)	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)	
	Transmitters	Receivers
30-88	100 (3 nW)	100 (3 nW)
88-216	150 (6.8 nW)	150 (6.8 nW)
216-960	200 (12 nW)	200 (12 nW)
Above 960	500 (75 nW)	500 (75 nW)

Note: *Measurements for compliance with limits in the above table may be performed at distances other than 3 metres, in accordance with Section 7.2.7.
Transmitting devices are not permitted in Table 1 bands or, unless stated otherwise, in TV bands (54-72 MHz, 76-88 MHz, 174-216 MHz, 470-608 MHz and 614-806 MHz).

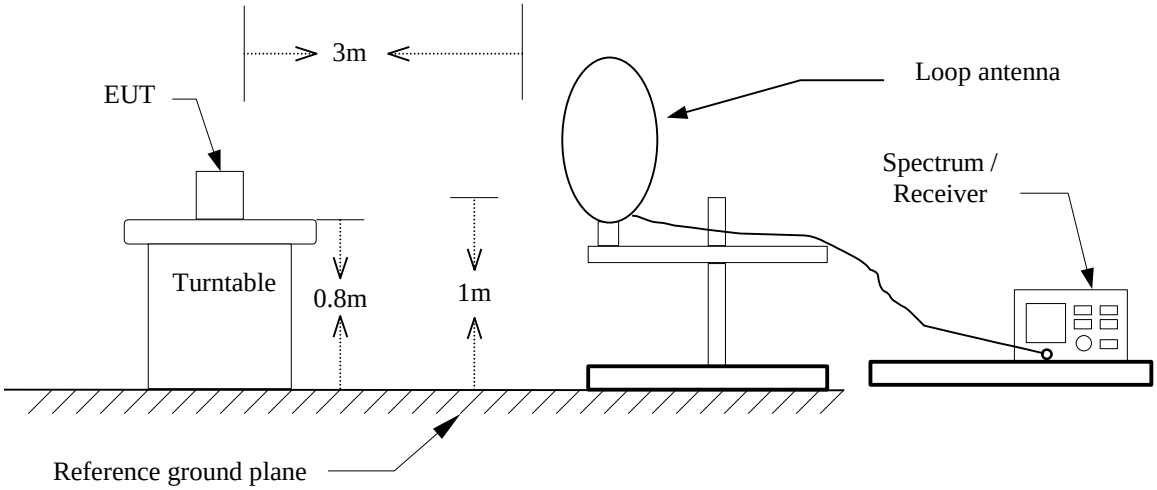
RSS-Gen Table 6: General Field Strength Limits for Transmitters at Frequencies Below 30 MHz (Transmit)

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/377F (F in kHz)	3000
490-1,705 kHz	24,000/F (F in kHz)	24,000/377F (F in kHz)	30
1.705-30 MHz	30	N/A	30

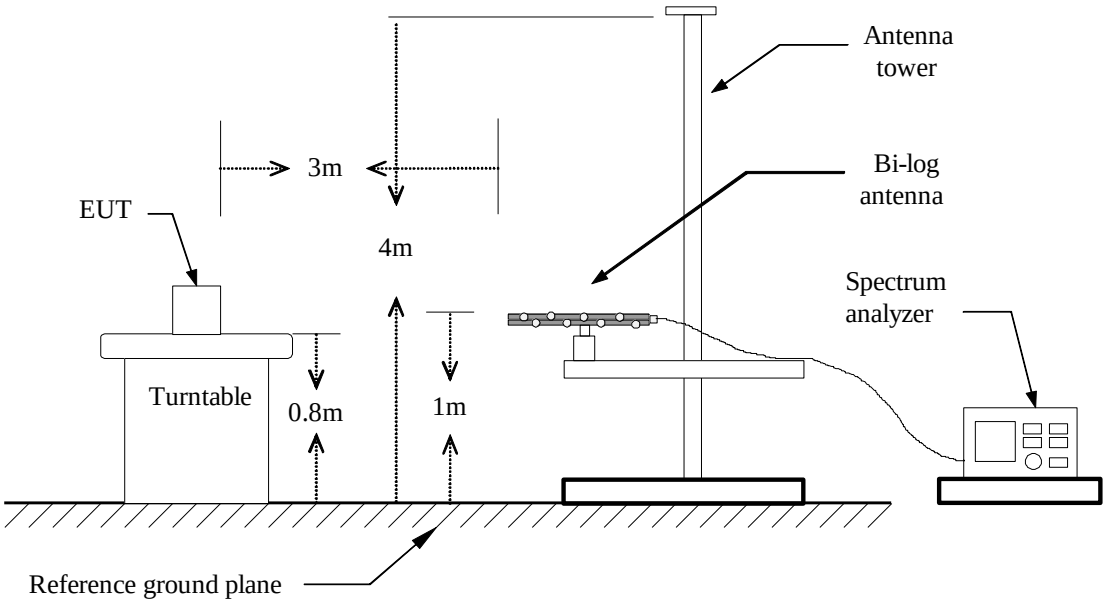
Note: The emission limits for the bands 9-90 kHz and 110-490 kHz are based on measurements
employing an average detector.

Test Configuration

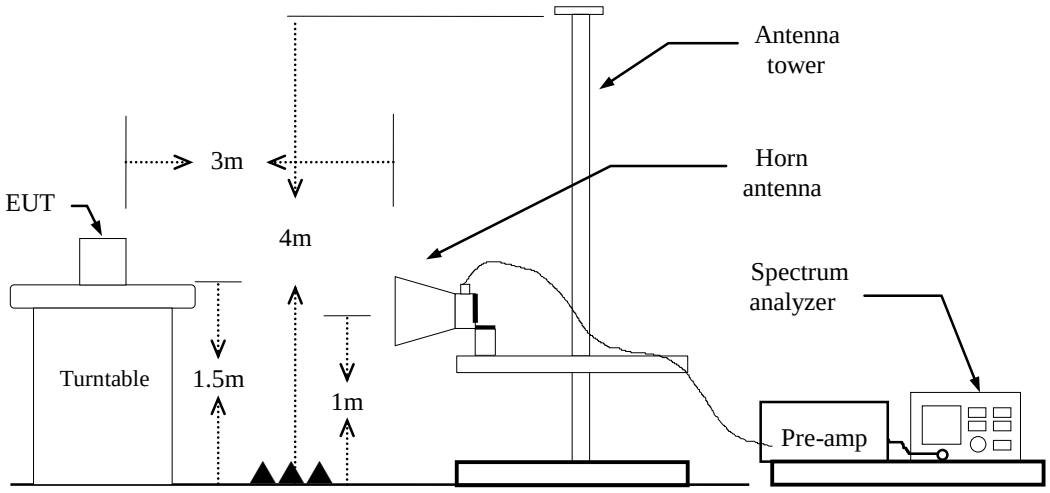
9kHz ~ 30MHz



30MHz ~ 1GHz



Above 1 GHz


Antenna
tower
3m
Horn
antenna
EUT
4m
Spectrum
analyzer
Turntable
1.5m
1m
Pre-amp

TEST PROCEDURE

1. The EUT is placed on a turntable, Above 1 GHz is 1.5m high and below 1 GHz is 0.8m high above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the spectrum analyzer in the following setting as:

   Below 1GHz:

   RBW=100kHz / VBW=300kHz / Sweep=AUTO

   Above 1GHz:

   (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
   (b)AVERAGE: RBW=1MHz,
   if duty cycle≧98%, VBW=10Hz.
   if duty cycle<98% VBW=1/T.
   IEEE 802.11a mode: ≧98%, VBW=10Hz
   IEEE 802.11n HT 20 MHz mode: ≧98%, VBW=10Hz
   IEEE 802.11n HT 40 MHz mode: ≧98%, VBW=10Hz

7. Repeat above procedures until the measurements for all frequencies are complete.
8. Result = Spectrum Reading + cable loss(spectrum to Amp) - Amp Gain + Cable loss(Amp to receive Ant)+ Receive Ant

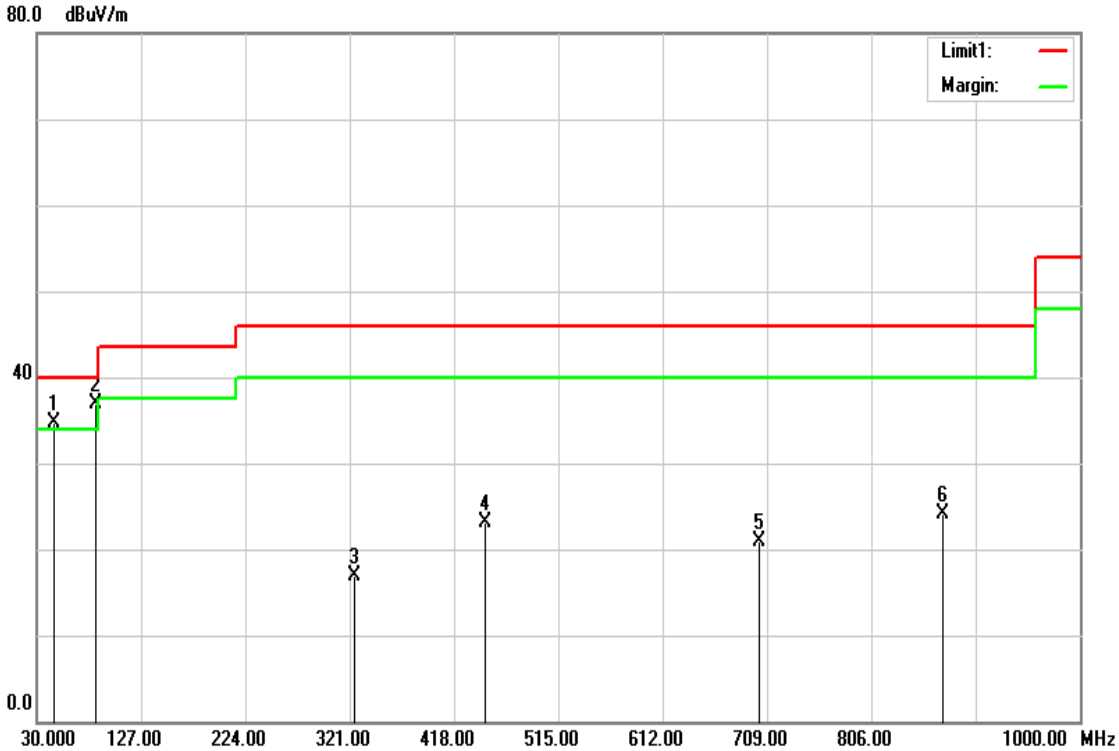
Note: We checked every harmonics frequencies from Fundamental frequencies with reduced VBW, and we mark a point to prove pass or not if we find any emission. For this case, there are no emissions hidden in the noise floor.

Below 1 GHz

Operation Mode: Normal Link **Test Date:** June 2, 2016

Temperature: 27°C **Tested by:** Dennis Li

Humidity: 53% RH **Polarity:** Ver. / Hor.



Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
46.4900	53.77	-19.06	34.71	40.00	-5.29	peak	V
85.2900	58.29	-21.38	36.91	40.00	-3.09	peak	V
324.8800	30.40	-13.57	16.83	46.00	-29.17	peak	V
447.1000	33.41	-10.28	23.13	46.00	-22.87	peak	V
701.2400	27.00	-6.04	20.96	46.00	-25.04	peak	V
872.9300	27.57	-3.51	24.06	46.00	-21.94	peak	V

Remark:

1 *Measuring frequencies from 30 MHz to the 1GHz.*

2 *Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.*

3 *Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.*

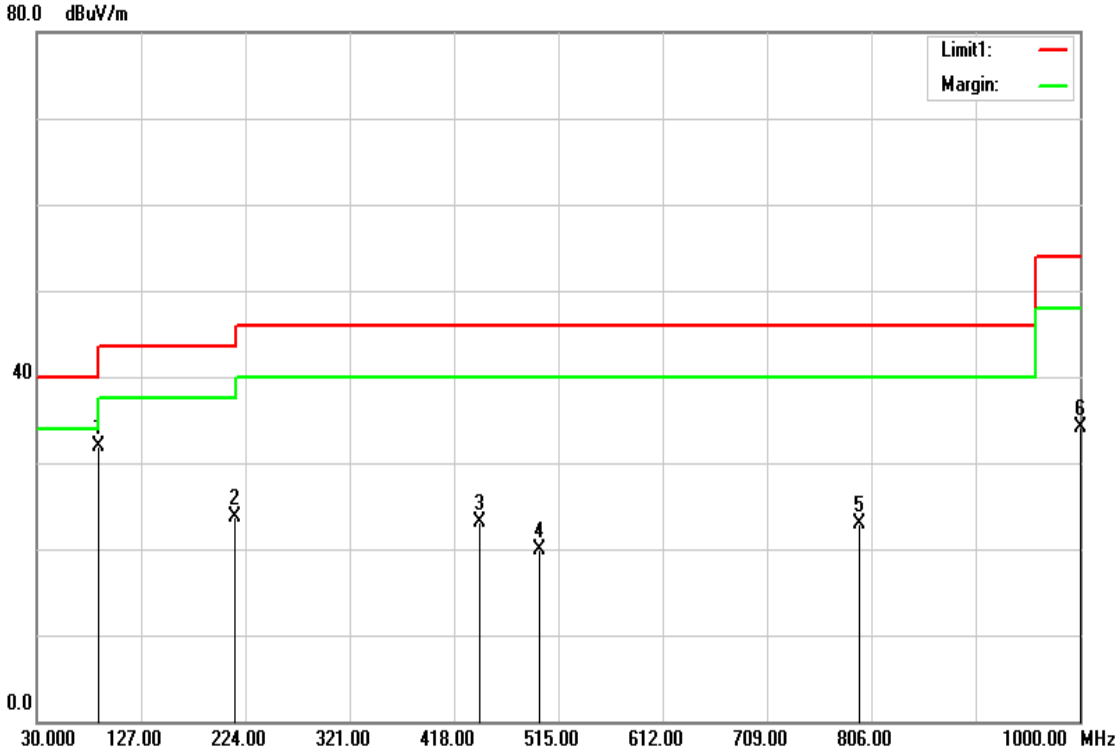
4 *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

5 *Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).*

Operation Mode: Normal Link **Test Date:** June 2, 2016

Temperature: 27°C **Tested by:** Dennis Li

Humidity: 53% RH **Polarity:** Hor.

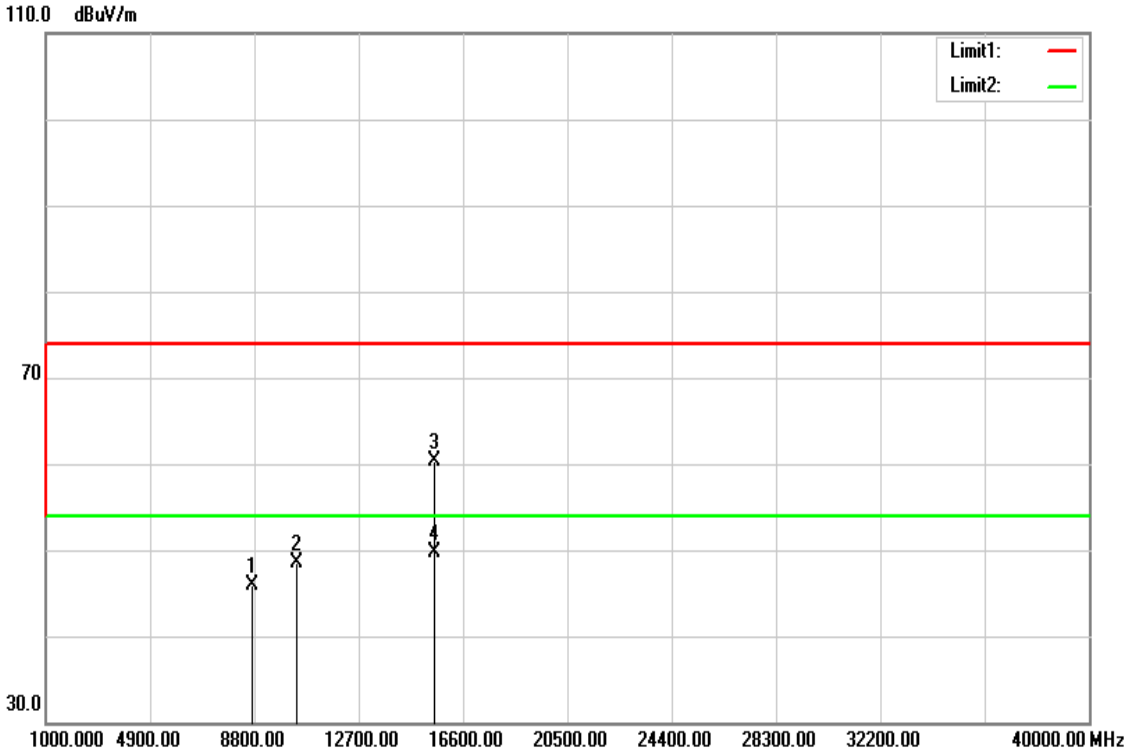


Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
87.2300	53.42	-21.43	31.99	40.00	-8.01	peak	H
214.3000	40.29	-16.56	23.73	43.50	-19.77	peak	H
442.2500	33.54	-10.42	23.12	46.00	-22.88	peak	H
497.5400	29.28	-9.29	19.99	46.00	-26.01	peak	H
795.3300	27.50	-4.54	22.96	46.00	-23.04	peak	H
1000.0000	35.68	-1.58	34.10	54.00	-19.90	peak	H

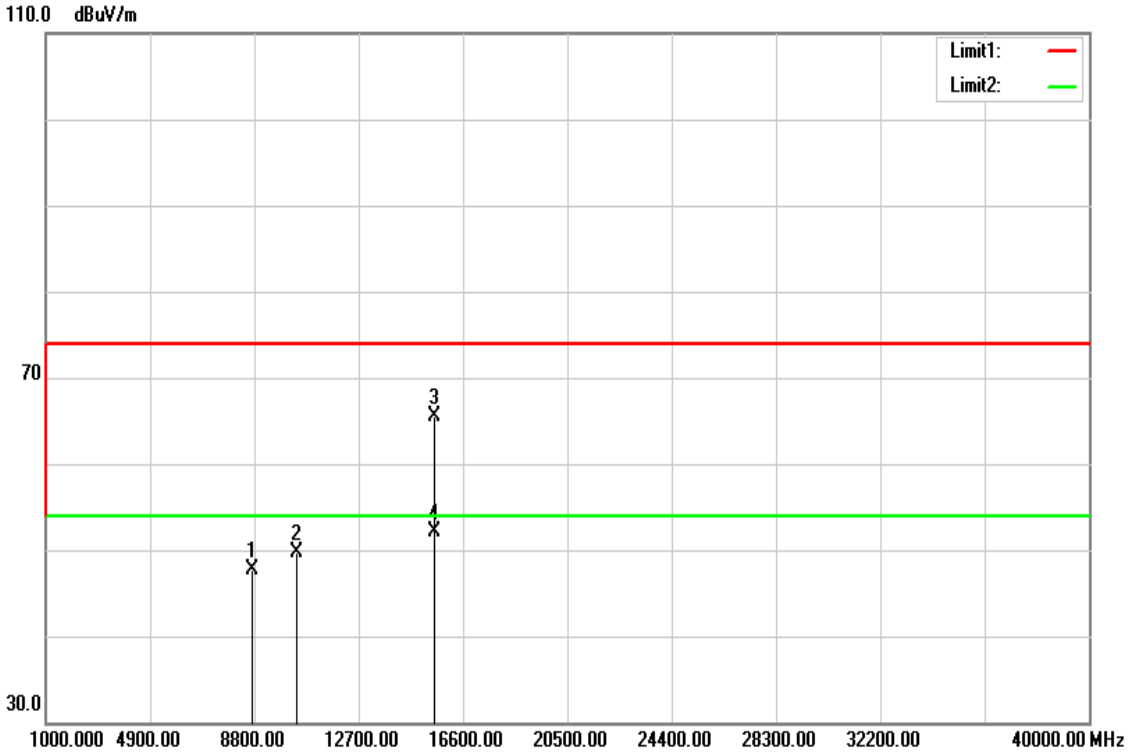
Remark:

1. *No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).*
2. *Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.*
3. *Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.*
4. *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.*
5. *Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).*

Above 1 GHz
U-NII-1
Tx / IEEE 802.11a mode / CH Low
Polarity: Vertical



Polarity: Horizontal



Operation Mode: Tx / IEEE 802.11a mode / CH Low **Test Date:** June 1, 2016

Temperature: 27°C **Tested by:** Dennis Li

Humidity: 53% RH **Polarity:** Ver. / Hor.

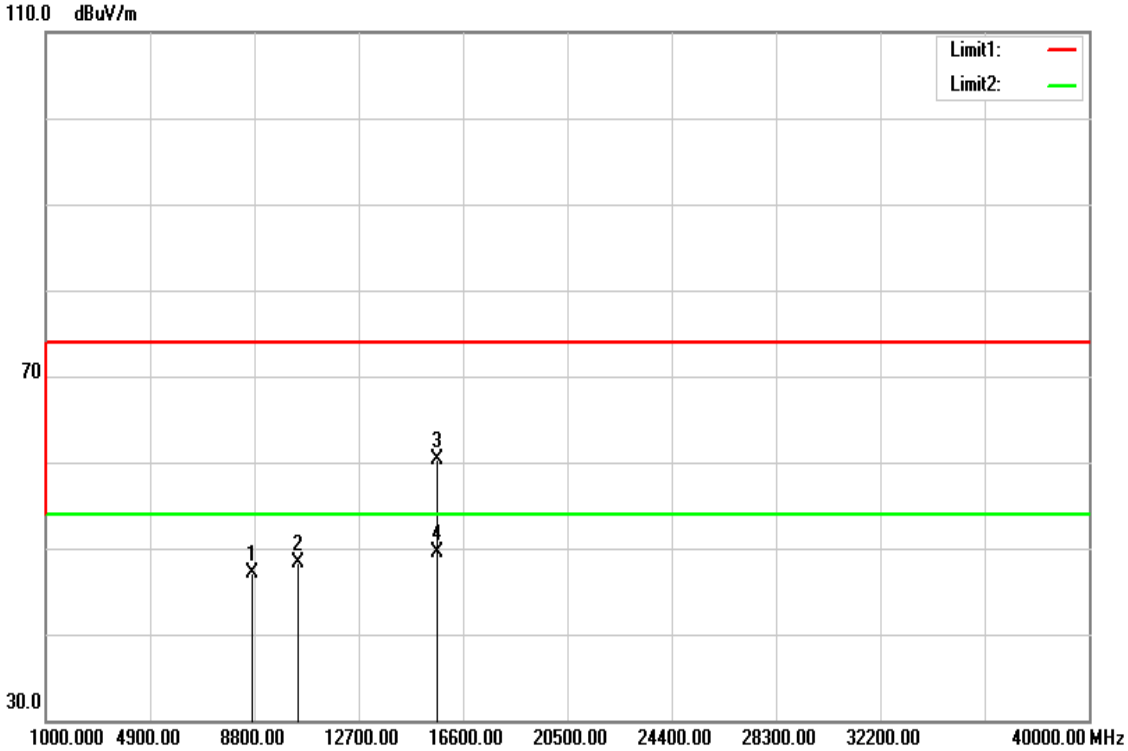
Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
8726.000	32.24	13.74	45.98	74.00	-28.02	peak	V
10360.000	31.91	16.52	48.43	74.00	-25.57	peak	V
15540.000	41.33	19.04	60.37	74.00	-13.63	peak	V
15540.000	30.74	19.04	49.78	54.00	-4.22	AVG	V
N/A							
8744.000	33.98	13.75	47.73	74.00	-26.27	peak	H
10360.000	33.12	16.52	49.64	74.00	-24.36	peak	H
15540.000	46.51	19.04	65.55	74.00	-8.45	peak	H
15540.000	33.05	19.04	52.09	54.00	-1.91	AVG	H
N/A							

Remark:

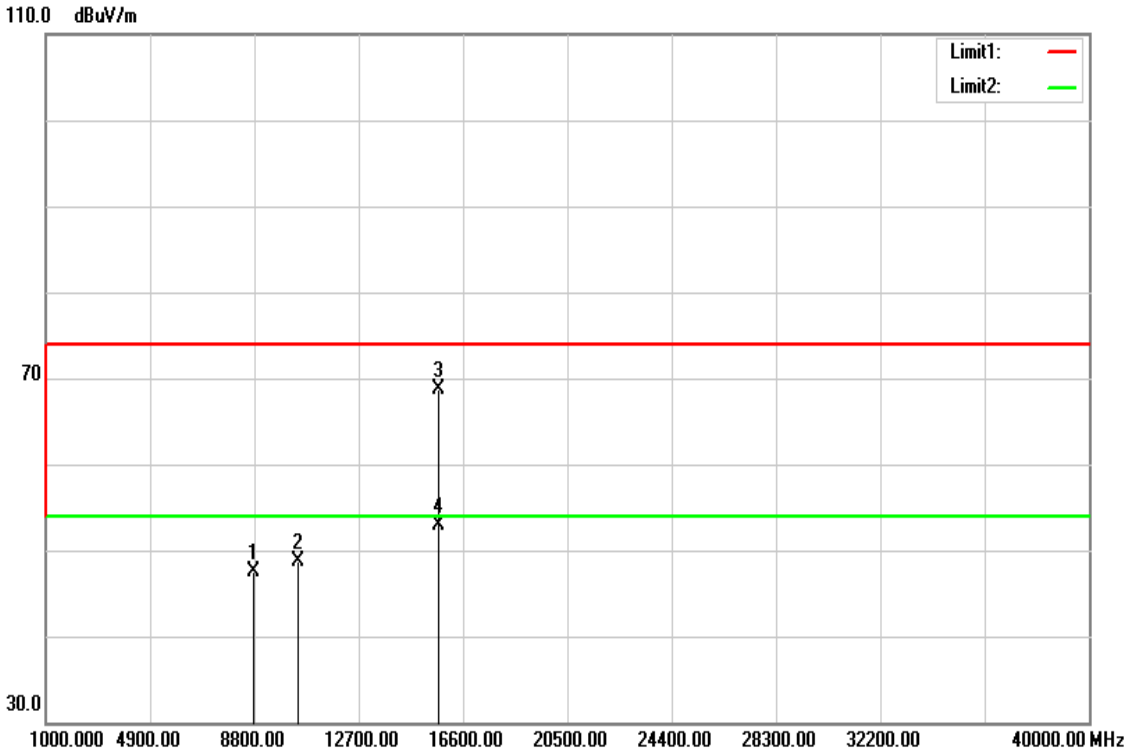
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
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).*

Tx / IEEE 802.11a mode / CH Mid

Polarity: Vertical



Polarity: Horizontal



Operation Mode: Tx / IEEE 802.11a mode / CH Mid **Test Date:** June 1, 2016

Temperature: 27°C **Tested by:** Dennis Li

Humidity: 53% RH **Polarity:** Ver. / Hor.

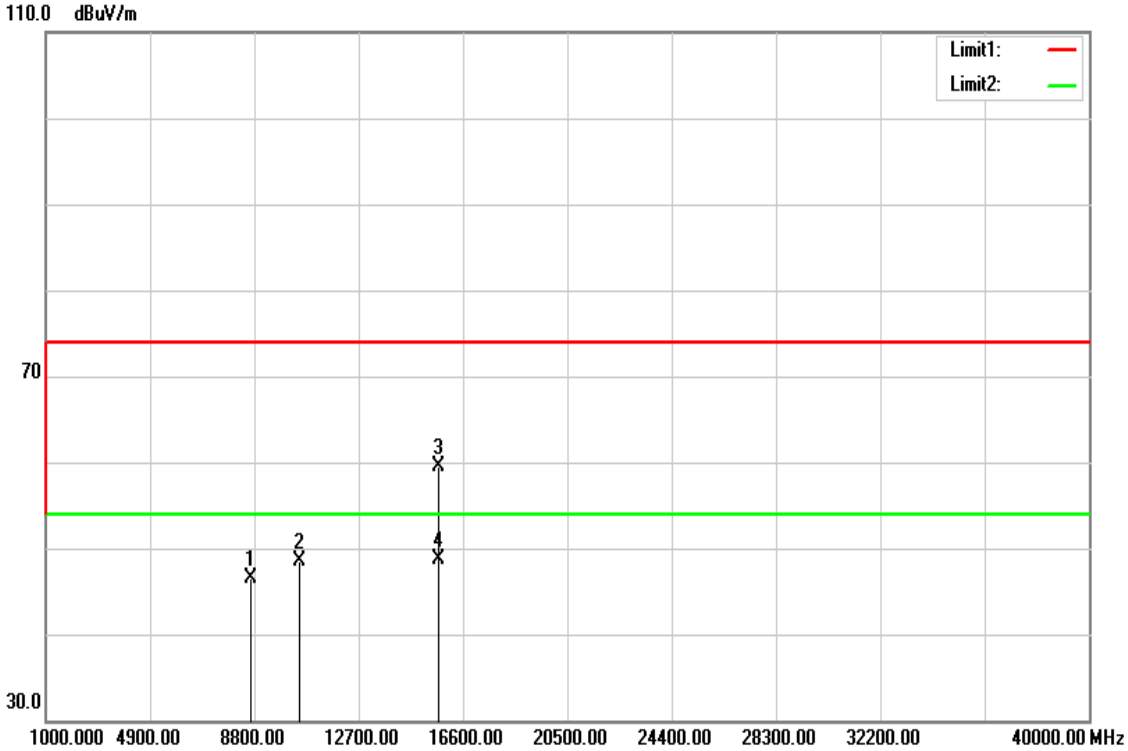
Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
8722.000	33.32	13.74	47.06	74.00	-26.94	peak	V
10440.000	31.50	16.89	48.39	74.00	-25.61	peak	V
15660.000	41.21	19.14	60.35	74.00	-13.65	peak	V
15660.000	30.37	19.14	49.51	54.00	-4.49	AVG	V
N/A							
8769.000	33.68	13.76	47.44	74.00	-26.56	peak	H
10440.000	31.89	16.89	48.78	74.00	-25.22	peak	H
15670.000	49.55	19.15	68.70	74.00	-5.30	peak	H
15670.000	33.75	19.15	52.90	54.00	-1.10	AVG	H
N/A							

Remark:

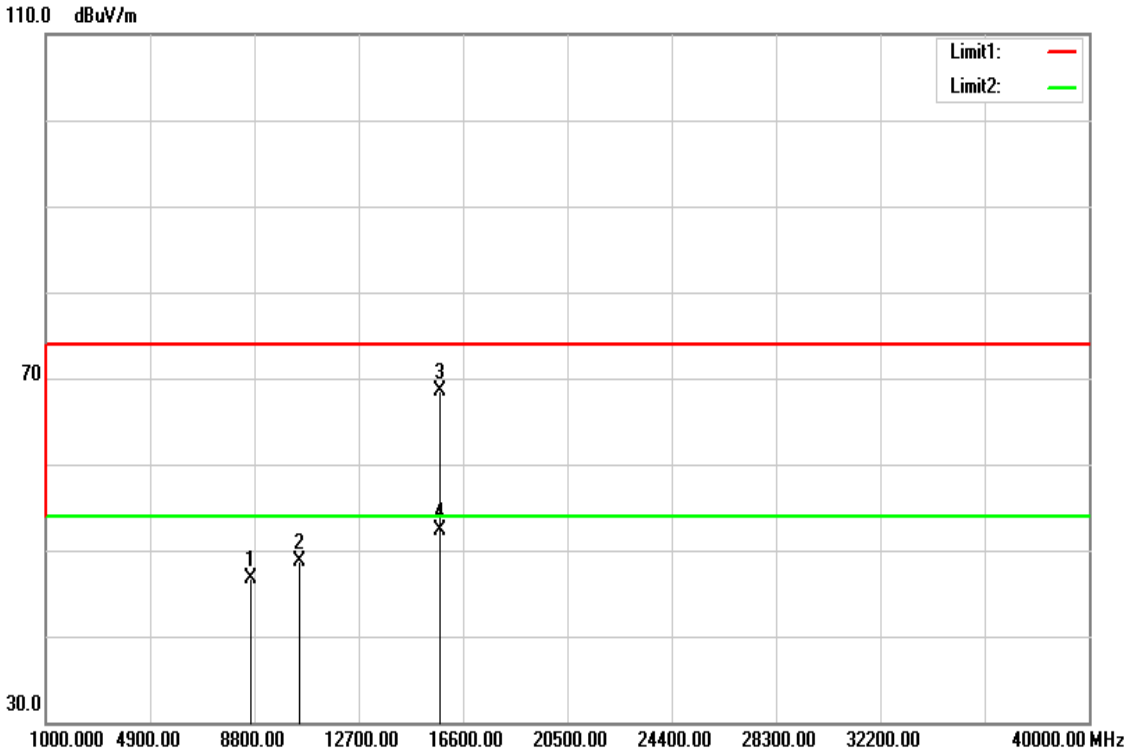
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
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).*

Tx / IEEE 802.11a mode / CH High

Polarity: Vertical



Polarity: Horizontal



Operation Mode: Tx / IEEE 802.11a mode / CH High **Test Date:** June 1, 2016

Temperature: 27°C **Tested by:** Dennis Li

Humidity: 53% RH **Polarity:** Ver. / Hor.

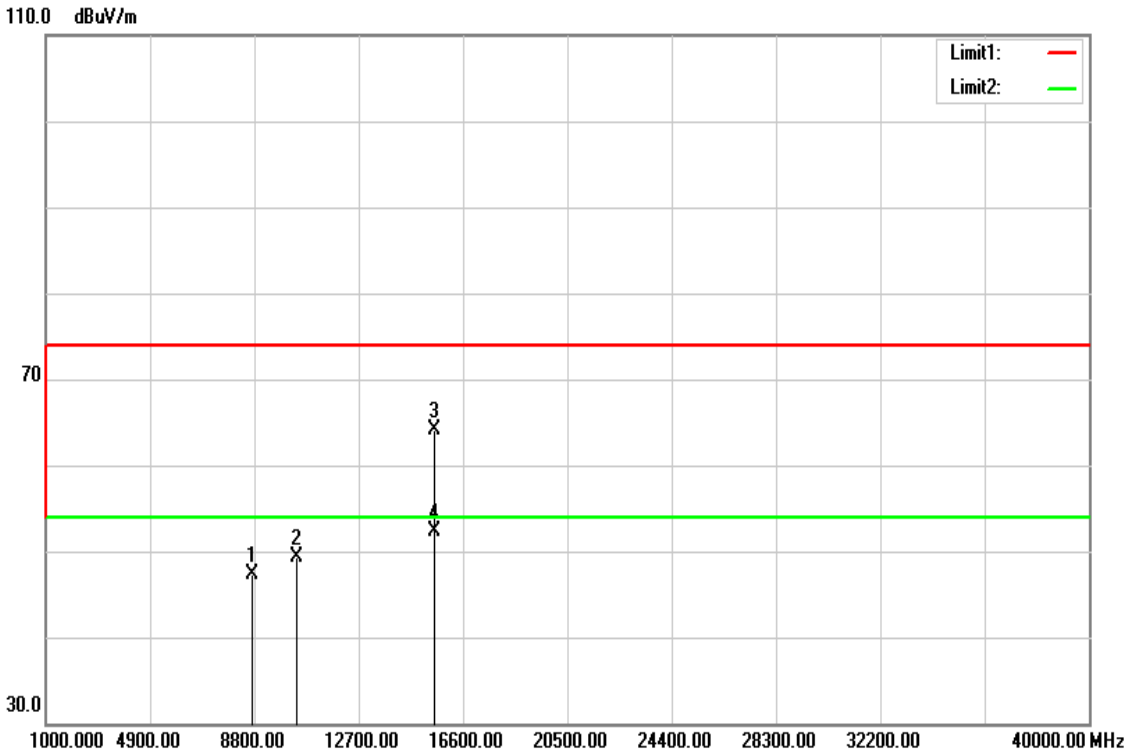
Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
8682.000	32.88	13.72	46.60	74.00	-27.40	peak	V
10480.000	31.38	17.07	48.45	74.00	-25.55	peak	V
15710.000	40.27	19.19	59.46	74.00	-14.54	peak	V
15710.000	29.54	19.19	48.73	54.00	-5.27	AVG	V
N/A							
8649.000	33.09	13.71	46.80	74.00	-27.20	peak	H
10480.000	31.69	17.07	48.76	74.00	-25.24	peak	H
15730.000	49.35	19.20	68.55	74.00	-5.45	peak	H
15730.000	33.08	19.20	52.28	54.00	-1.72	AVG	H
N/A							

Remark:

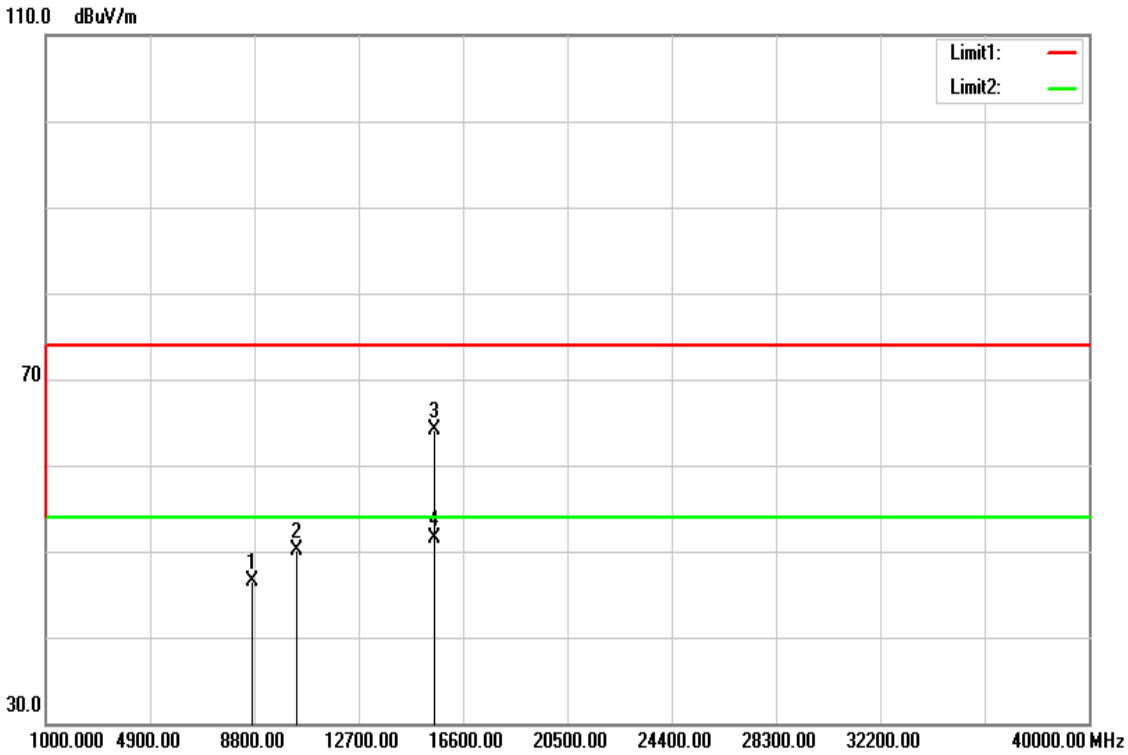
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
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).*

Tx / IEEE 802.11n HT 20 MHz mode / CH Low

Polarity: Vertical



Polarity: Horizontal



Operation Mode:	Tx / IEEE 802.11n HT 20 MHz mode / CH Low	**Test Date:**	June 1, 2016
Temperature:	27°C	**Tested by:**	Dennis Li
Humidity:	53% RH	**Polarity:**	Ver. / Hor.

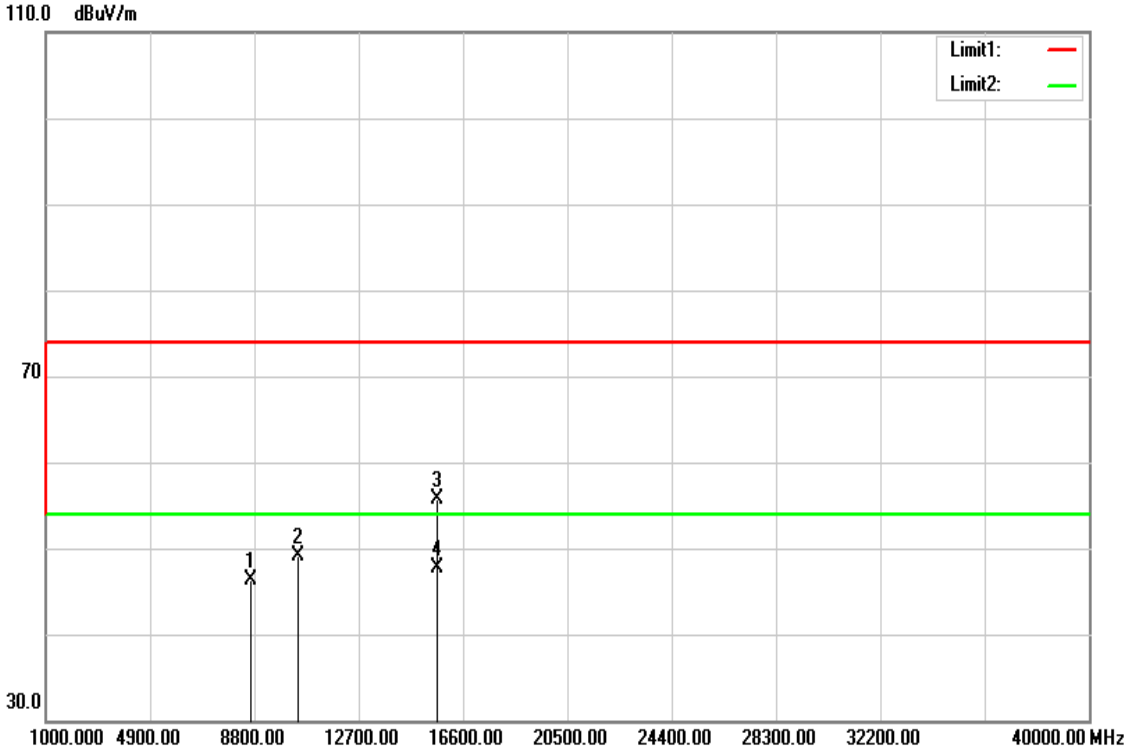
Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
8715.000	33.63	13.74	47.37	74.00	-26.63	peak	V
10360.000	32.75	16.52	49.27	74.00	-24.73	peak	V
15540.000	45.15	19.04	64.19	74.00	-9.81	peak	V
15540.000	33.30	19.04	52.34	54.00	-1.66	AVG	V
N/A							
8736.000	32.66	13.75	46.41	74.00	-27.59	peak	H
10360.000	33.64	16.52	50.16	74.00	-23.84	peak	H
15540.000	45.13	19.04	64.17	74.00	-9.83	peak	H
15540.000	32.47	19.04	51.51	54.00	-2.49	AVG	H
N/A							

Remark:

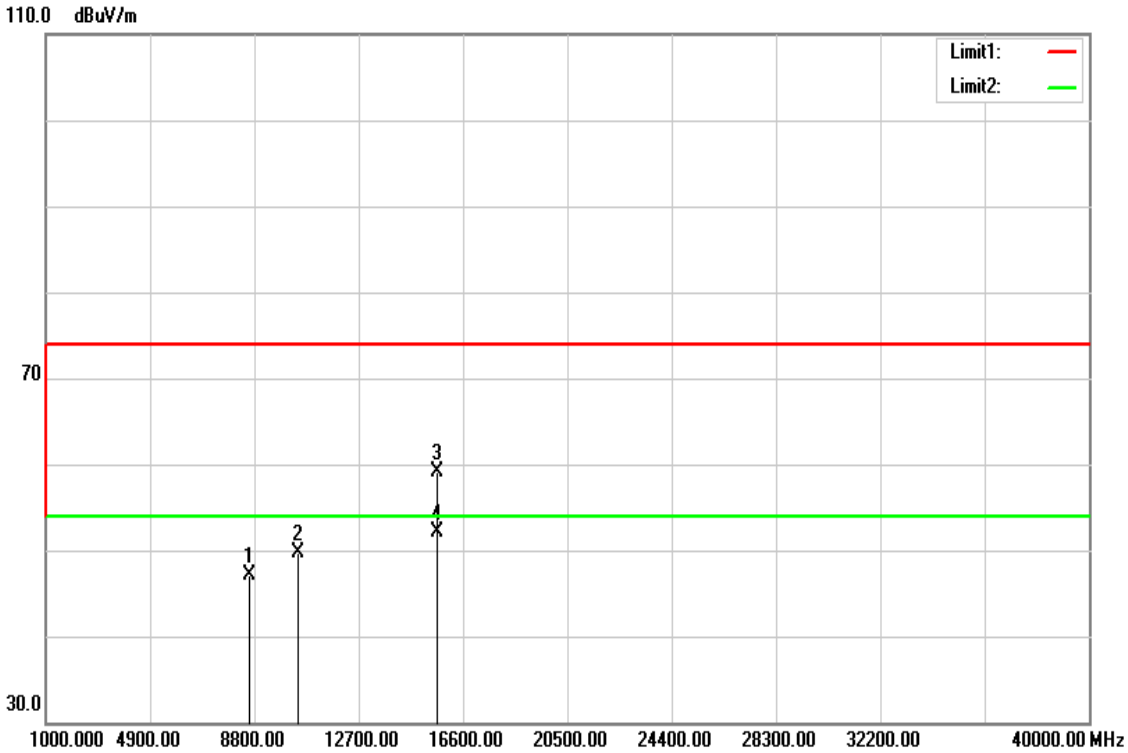
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
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).*

Tx / IEEE 802.11n HT 20 MHz mode / CH Mid

Polarity: Vertical



Polarity: Horizontal



Operation Mode:	Tx / IEEE 802.11n HT 20 MHz mode / CH Mid	**Test Date:**	June 1, 2016
Temperature:	27°C	**Tested by:**	Dennis Li
Humidity:	53% RH	**Polarity:**	Ver. / Hor.

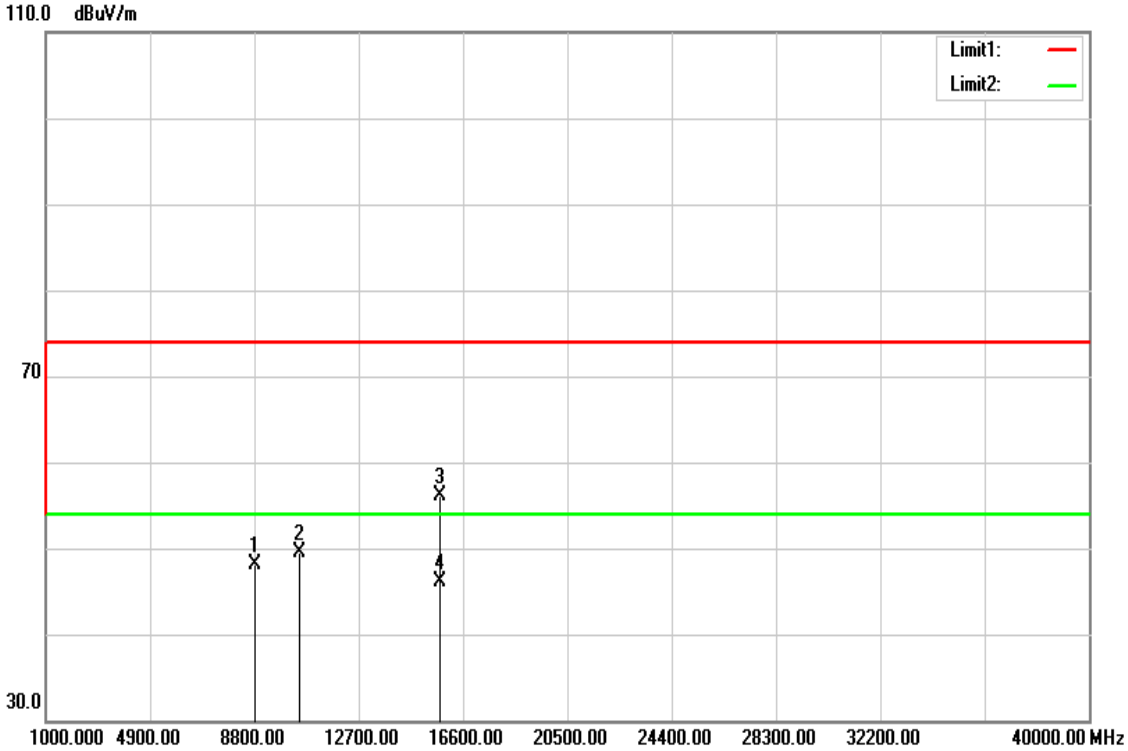
Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
8688.000	32.61	13.73	46.34	74.00	-27.66	peak	V
10440.000	32.14	16.89	49.03	74.00	-24.97	peak	V
15660.000	36.58	19.14	55.72	74.00	-18.28	peak	V
15660.000	28.54	19.14	47.68	54.00	-6.32	AVG	V
N/A							
8625.000	33.42	13.70	47.12	74.00	-26.88	peak	H
10440.000	32.89	16.89	49.78	74.00	-24.22	peak	H
15660.000	40.06	19.14	59.20	74.00	-14.80	peak	H
15660.000	32.96	19.14	52.10	54.00	-1.90	AVG	H
N/A							

Remark:

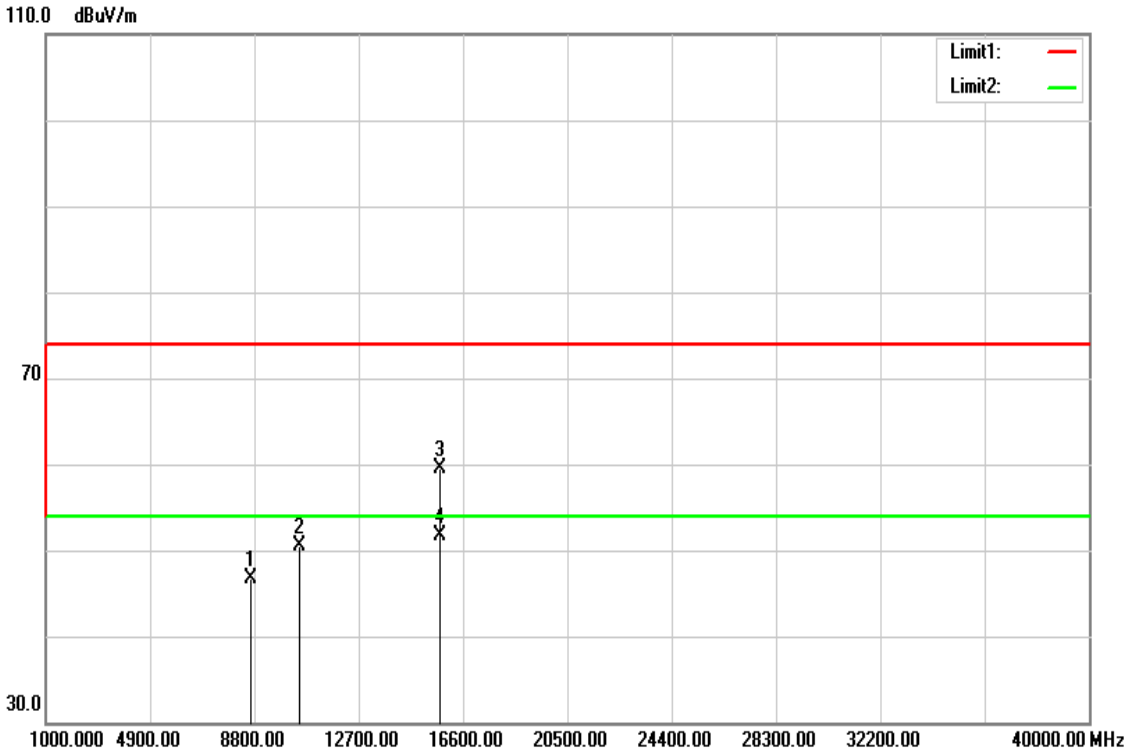
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
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).*

Tx / IEEE 802.11n HT 20 MHz mode / CH High

Polarity: Vertical



Polarity: Horizontal



Operation Mode:	Tx / IEEE 802.11n HT 20 MHz mode / CH High	**Test Date:**	June 1, 2016
Temperature:	27°C	**Tested by:**	Dennis Li
Humidity:	53% RH	**Polarity:**	Ver. / Hor.

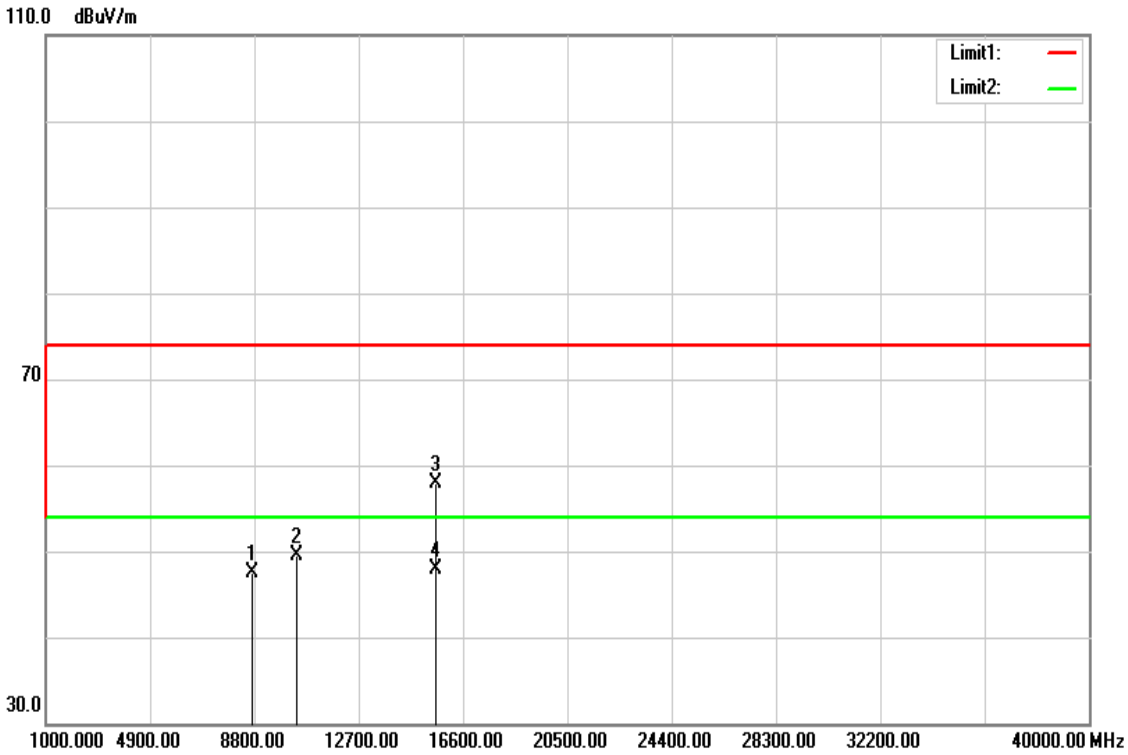
Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
8846.000	34.30	13.80	48.10	74.00	-25.90	peak	V
10480.000	32.50	17.07	49.57	74.00	-24.43	peak	V
15720.000	36.91	19.19	56.10	74.00	-17.90	peak	V
15720.000	26.94	19.19	46.13	54.00	-7.87	AVG	V
N/A							
8647.000	33.00	13.71	46.71	74.00	-27.29	peak	H
10480.000	33.41	17.07	50.48	74.00	-23.52	peak	H
15720.000	40.34	19.19	59.53	74.00	-14.47	peak	H
15720.000	32.61	19.19	51.80	54.00	-2.20	AVG	H
N/A							

Remark:

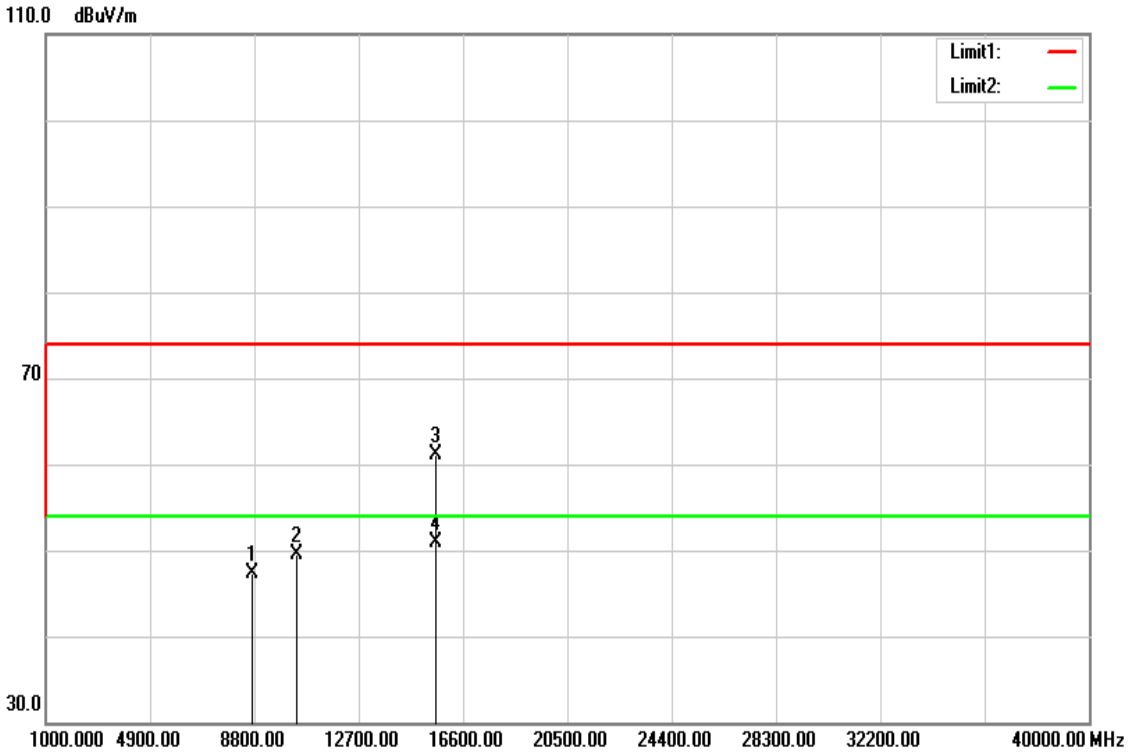
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
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).*

Tx / IEEE 802.11n HT 40 MHz mode / CH Low

Polarity: Vertical



Polarity: Horizontal



Operation Mode:	Tx / IEEE 802.11n HT 40 MHz mode / CH Low	**Test Date:**	June 1, 2016
Temperature:	27°C	**Tested by:**	Dennis Li
Humidity:	53% RH	**Polarity:**	Ver. / Hor.

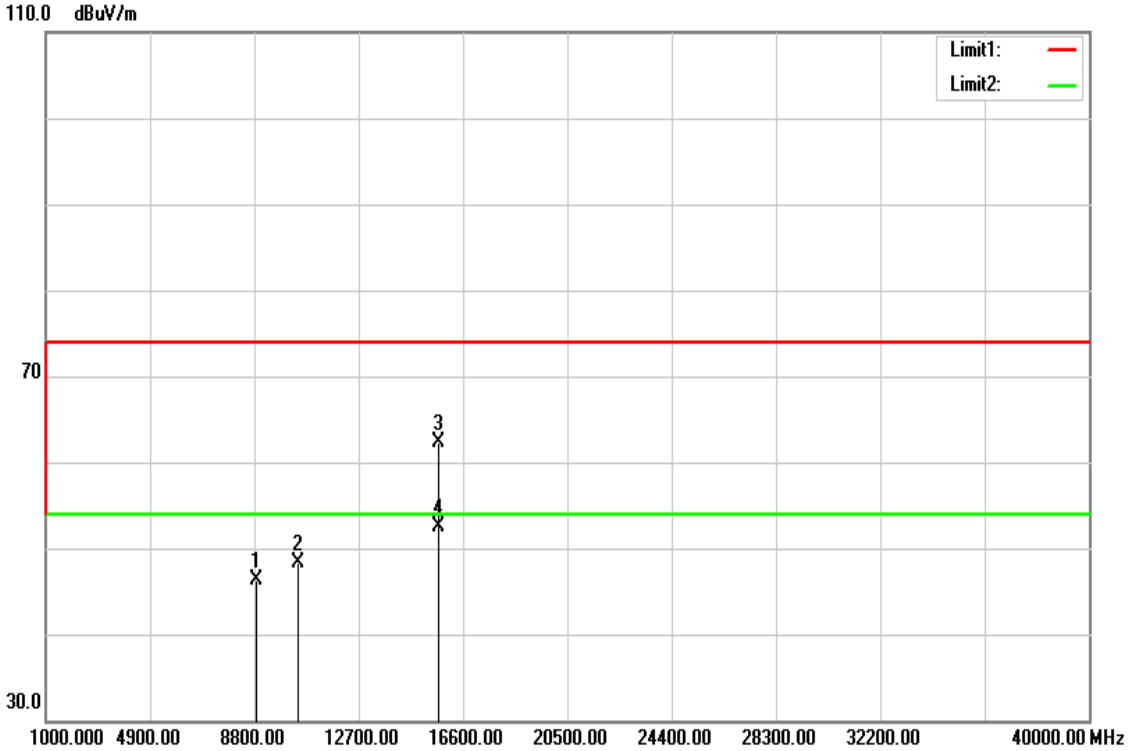
Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
8711.000	33.71	13.74	47.45	74.00	-26.55	peak	V
10380.000	32.92	16.62	49.54	74.00	-24.46	peak	V
15570.000	38.84	19.07	57.91	74.00	-16.09	peak	V
15570.000	28.79	19.07	47.86	54.00	-6.14	AVG	V
N/A							
8745.000	33.49	13.75	47.24	74.00	-26.76	peak	H
10380.000	32.95	16.62	49.57	74.00	-24.43	peak	H
15570.000	42.08	19.07	61.15	74.00	-12.85	peak	H
15570.000	31.88	19.07	50.95	54.00	-3.05	AVG	H
N/A							

Remark:

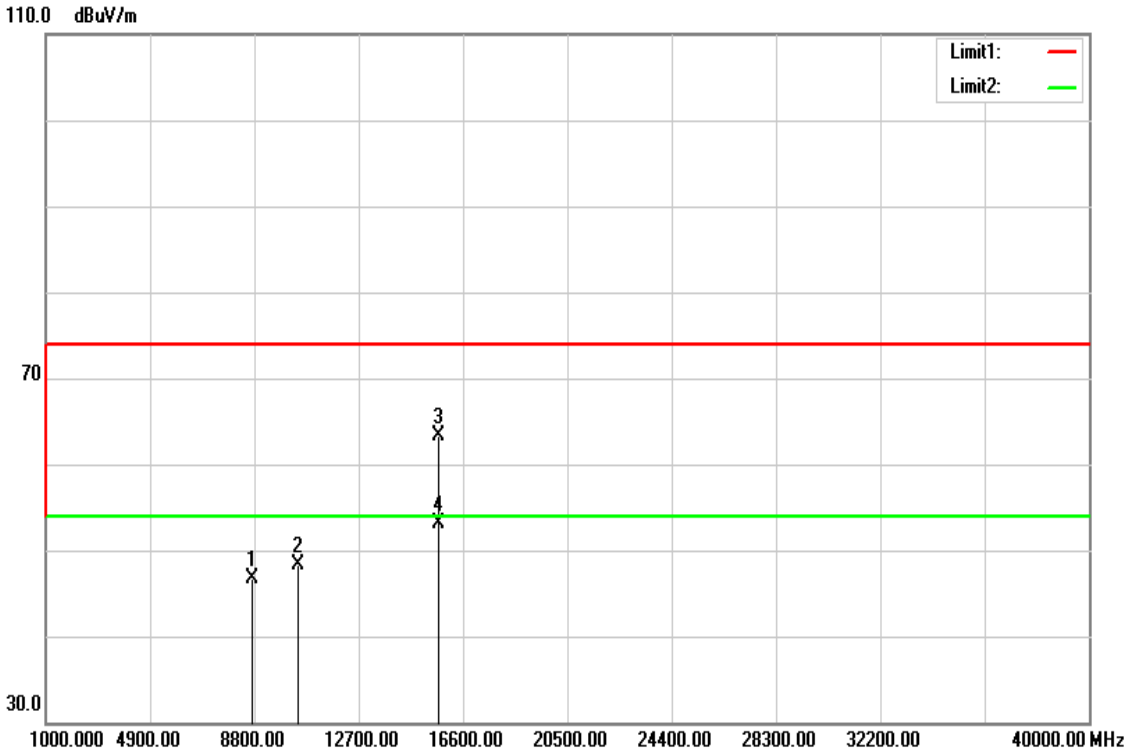
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
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).*

Tx / IEEE 802.11n HT 40 MHz mode / CH High

Polarity: Vertical



Polarity: Horizontal



Operation Mode:	Tx / IEEE 802.11n HT 40 MHz mode / CH High	**Test Date:**	June 1, 2016
Temperature:	27°C	**Tested by:**	Dennis Li
Humidity:	53% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
8896.000	32.44	13.82	46.26	74.00	-27.74	peak	V
10460.000	31.40	16.98	48.38	74.00	-25.62	peak	V
15680.000	43.18	19.16	62.34	74.00	-11.66	peak	V
15680.000	33.25	19.16	52.41	54.00	-1.59	AVG	V
N/A							
8732.000	32.92	13.75	46.67	74.00	-27.33	peak	H
10460.000	31.35	16.98	48.33	74.00	-25.67	peak	H
15690.000	44.13	19.17	63.30	74.00	-10.70	peak	H
15690.000	33.84	19.17	53.01	54.00	-0.99	AVG	H
N/A							

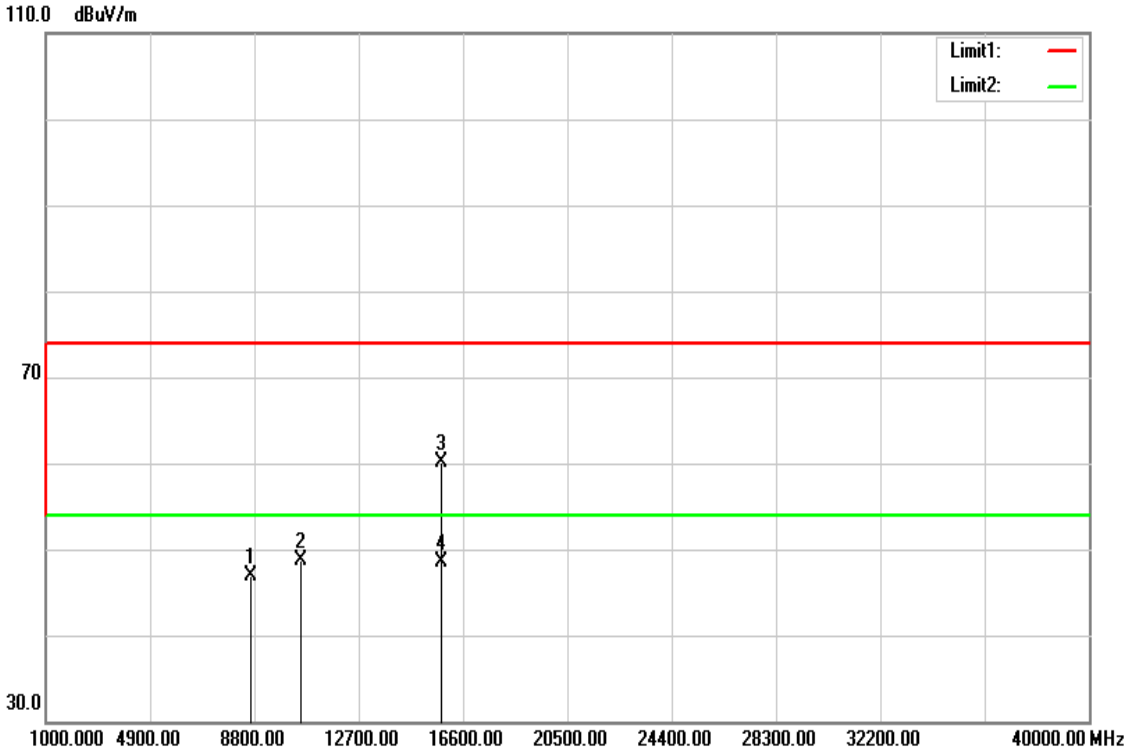
Remark:

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.*
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).*

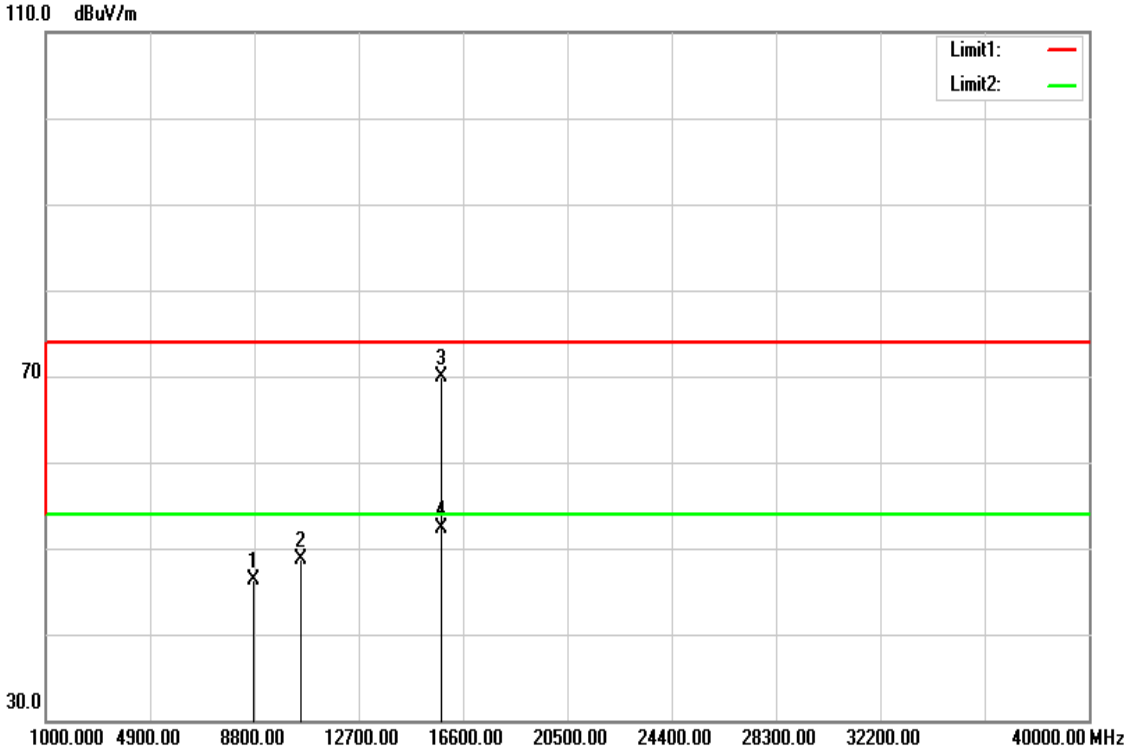
U-NII-2A

Tx / IEEE 802.11a mode / CH Low

Polarity: Vertical



Polarity: Horizontal



Operation Mode: Tx / IEEE 802.11a mode / CH Low **Test Date:** June 1, 2016

Temperature: 27°C **Tested by:** Dennis Li

Humidity: 53% RH **Polarity:** Ver. / Hor.

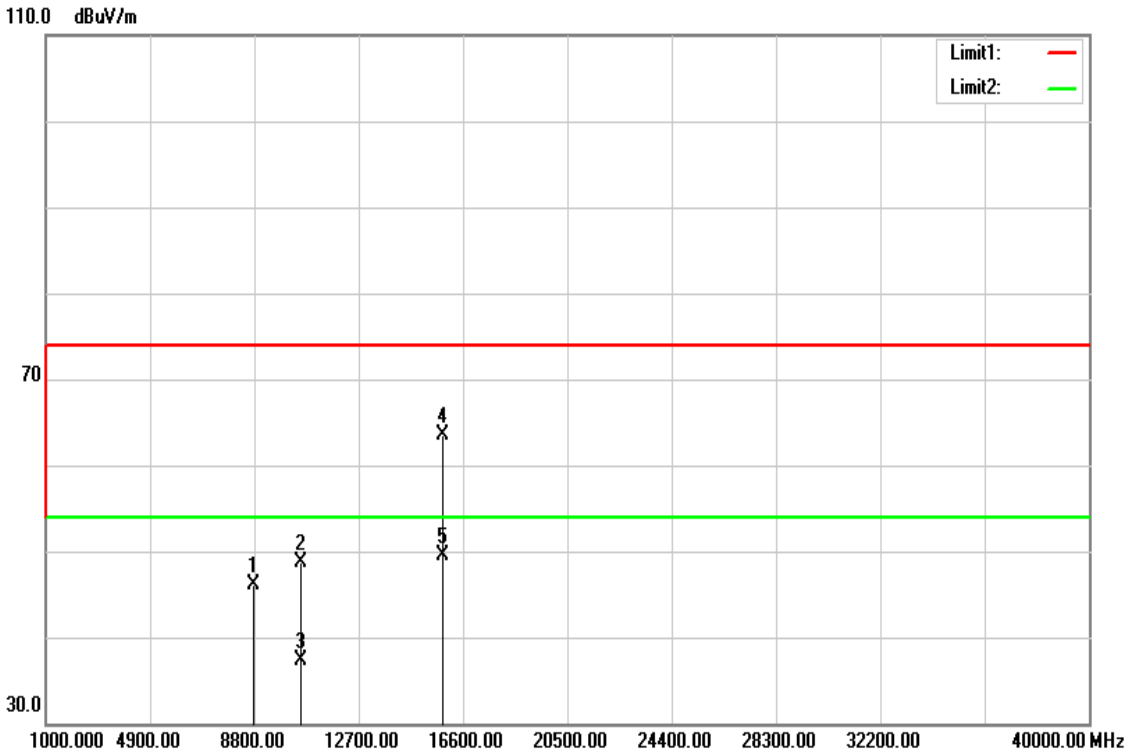
Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
8688.000	33.26	13.73	46.99	74.00	-27.01	peak	V
10520.000	31.56	17.14	48.70	74.00	-25.30	peak	V
15770.000	40.90	19.24	60.14	74.00	-13.86	peak	V
15770.000	29.26	19.24	48.50	54.00	-5.50	AVG	V
N/A							
8766.000	32.63	13.76	46.39	74.00	-27.61	peak	H
10520.000	31.53	17.14	48.67	74.00	-25.33	peak	H
15780.000	50.61	19.25	69.86	74.00	-4.14	peak	H
15780.000	32.97	19.25	52.22	54.00	-1.78	AVG	H
N/A							

Remark:

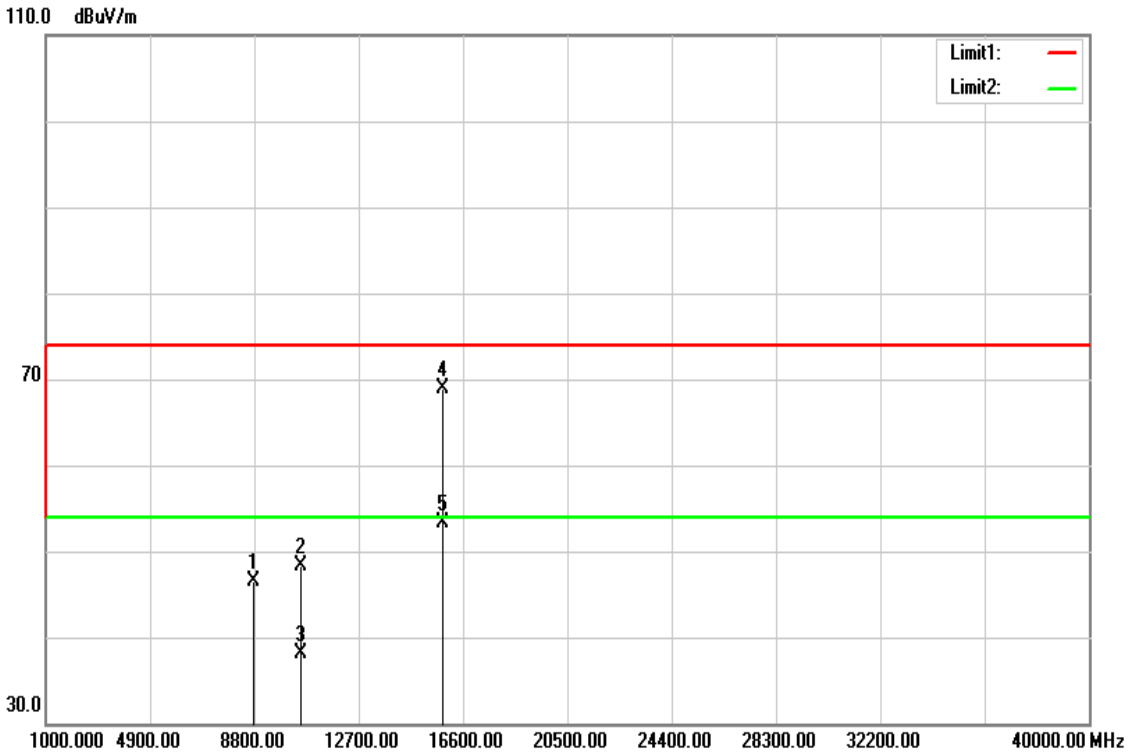
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
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).*

Tx / IEEE 802.11a mode / CH Mid

Polarity: Vertical



Polarity: Horizontal



Operation Mode: Tx / IEEE 802.11a mode / CH Mid **Test Date:** June 1, 2016

Temperature: 27°C **Tested by:** Dennis Li

Humidity: 53% RH **Polarity:** Ver. / Hor.

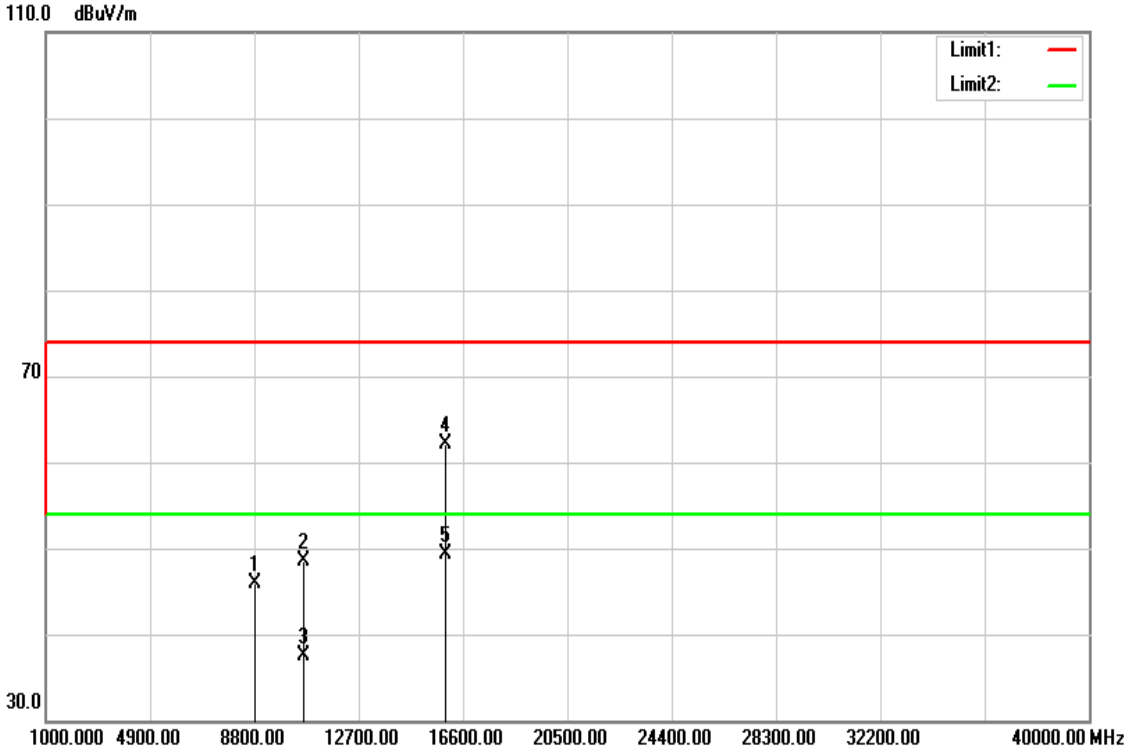
Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
8781.000	32.41	13.77	46.18	74.00	-27.82	peak	V
10560.000	31.53	17.11	48.64	74.00	-25.36	peak	V
10560.000	20.11	17.11	37.22	54.00	-16.78	AVG	V
15840.000	44.11	19.30	63.41	74.00	-10.59	peak	V
15840.000	30.12	19.30	49.42	54.00	-4.58	AVG	V
N/A							
8785.000	32.71	13.77	46.48	74.00	-27.52	peak	H
10560.000	31.12	17.11	48.23	74.00	-25.77	peak	H
10560.000	21.00	17.11	38.11	54.00	-15.89	AVG	H
15840.000	49.60	19.30	68.90	74.00	-5.10	peak	H
15840.000	33.96	19.30	53.26	54.00	-0.74	AVG	H
N/A							

Remark:

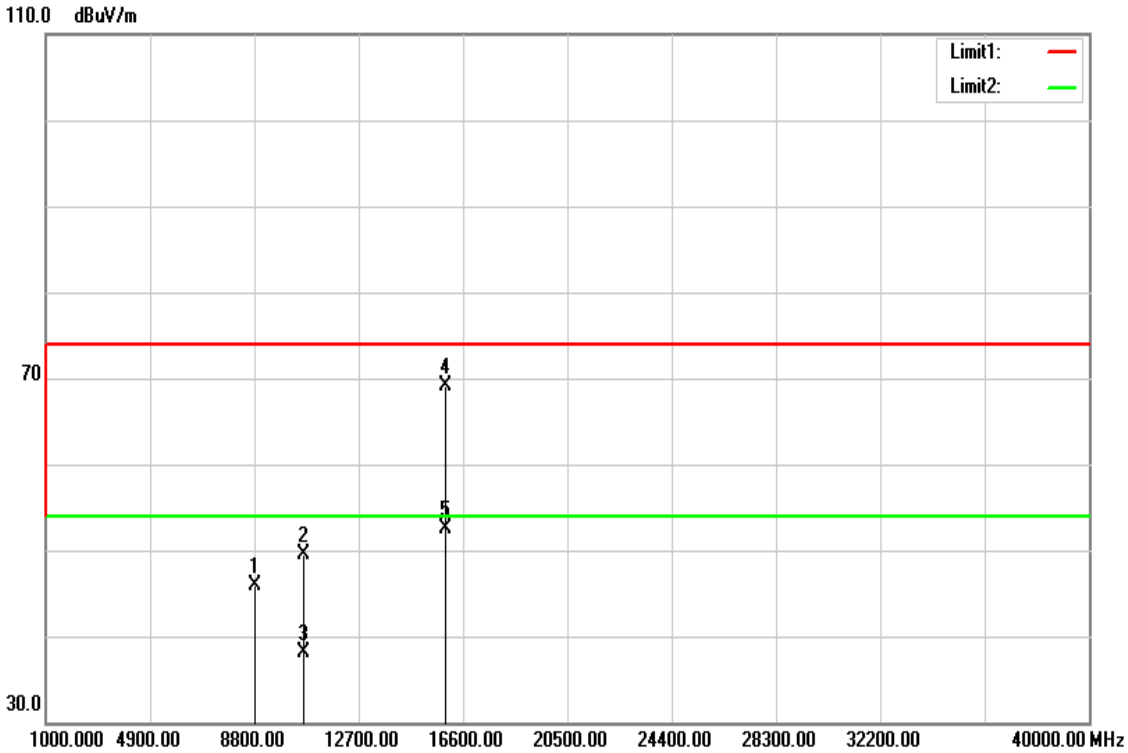
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
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).*

Tx / IEEE 802.11a mode / CH High

Polarity: Vertical



Polarity: Horizontal



Operation Mode: Tx / IEEE 802.11a mode / CH High **Test Date:** June 1, 2016

Temperature: 27°C **Tested by:** Dennis Li

Humidity: 53% RH **Polarity:** Ver. / Hor.

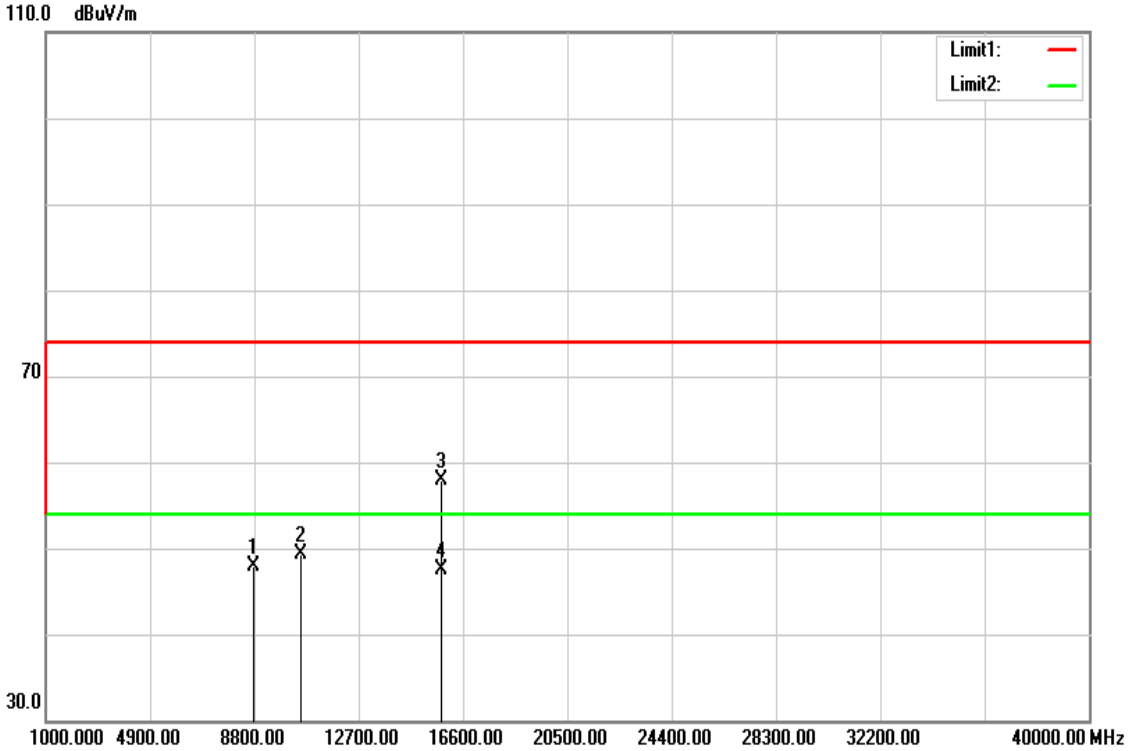
Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
8846.000	32.12	13.80	45.92	74.00	-28.08	peak	V
10640.000	31.42	17.04	48.46	74.00	-25.54	peak	V
10640.000	20.37	17.04	37.41	54.00	-16.59	AVG	V
15970.000	42.75	19.40	62.15	74.00	-11.85	peak	V
15970.000	29.99	19.40	49.39	54.00	-4.61	AVG	V
N/A							
8826.000	32.07	13.79	45.86	74.00	-28.14	peak	H
10640.000	32.45	17.04	49.49	74.00	-24.51	peak	H
10640.000	21.11	17.04	38.15	54.00	-15.85	AVG	H
15950.000	49.80	19.39	69.19	74.00	-4.81	peak	H
15950.000	33.03	19.39	52.42	54.00	-1.58	AVG	H
N/A							

Remark:

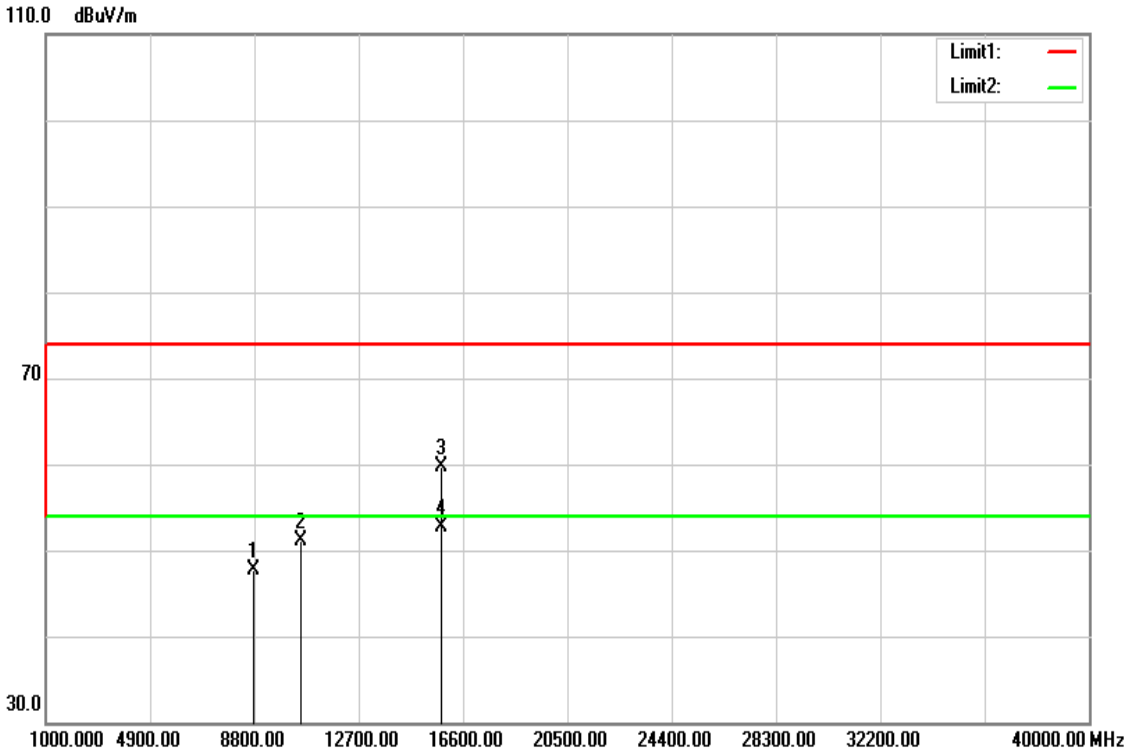
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
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).*

Tx / IEEE 802.11n HT 20 MHz mode / CH Low

Polarity: Vertical



Polarity: Horizontal



Operation Mode:	Tx / IEEE 802.11n HT 20 MHz mode / CH Low	**Test Date:**	June 1, 2016
Temperature:	27°C	**Tested by:**	Dennis Li
Humidity:	53% RH	**Polarity:**	Ver. / Hor.

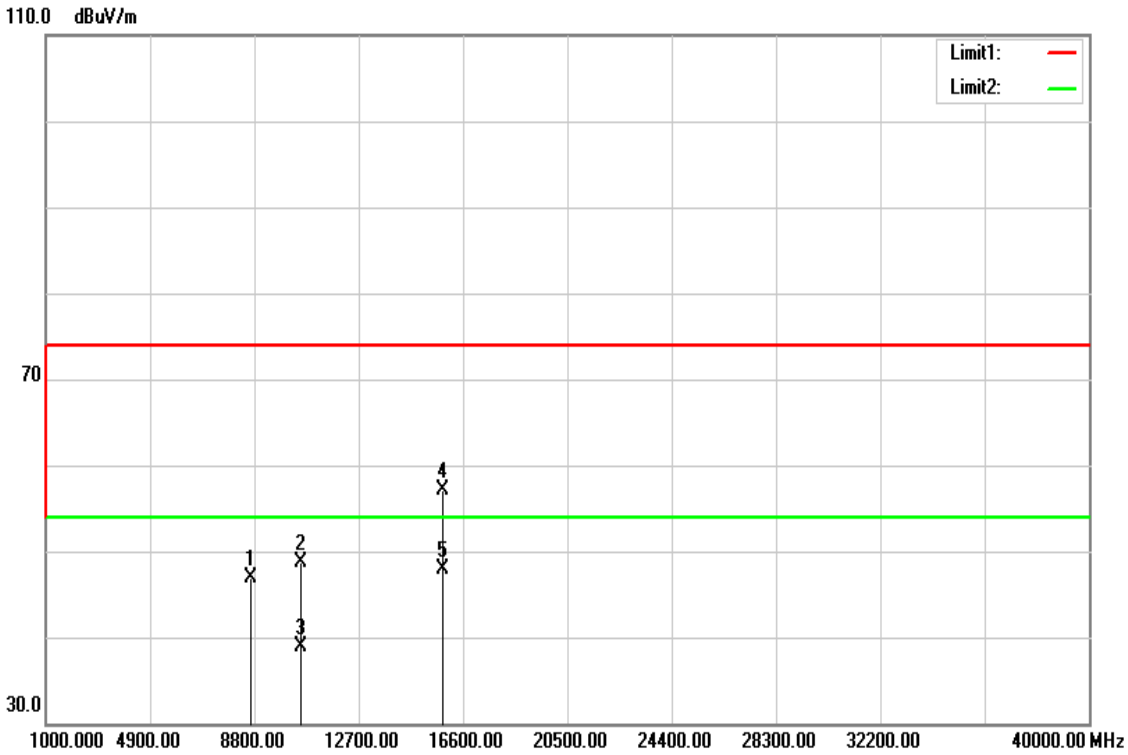
Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
8784.000	34.19	13.77	47.96	74.00	-26.04	peak	V
10520.000	32.26	17.14	49.40	74.00	-24.60	peak	V
15780.000	38.60	19.25	57.85	74.00	-16.15	peak	V
15780.000	28.22	19.25	47.47	54.00	-6.53	AVG	V
N/A							
8769.000	34.03	13.76	47.79	74.00	-26.21	peak	H
10520.000	33.93	17.14	51.07	74.00	-22.93	peak	H
15780.000	40.54	19.25	59.79	74.00	-14.21	peak	H
15780.000	33.50	19.25	52.75	54.00	-1.25	AVG	H
N/A							

Remark:

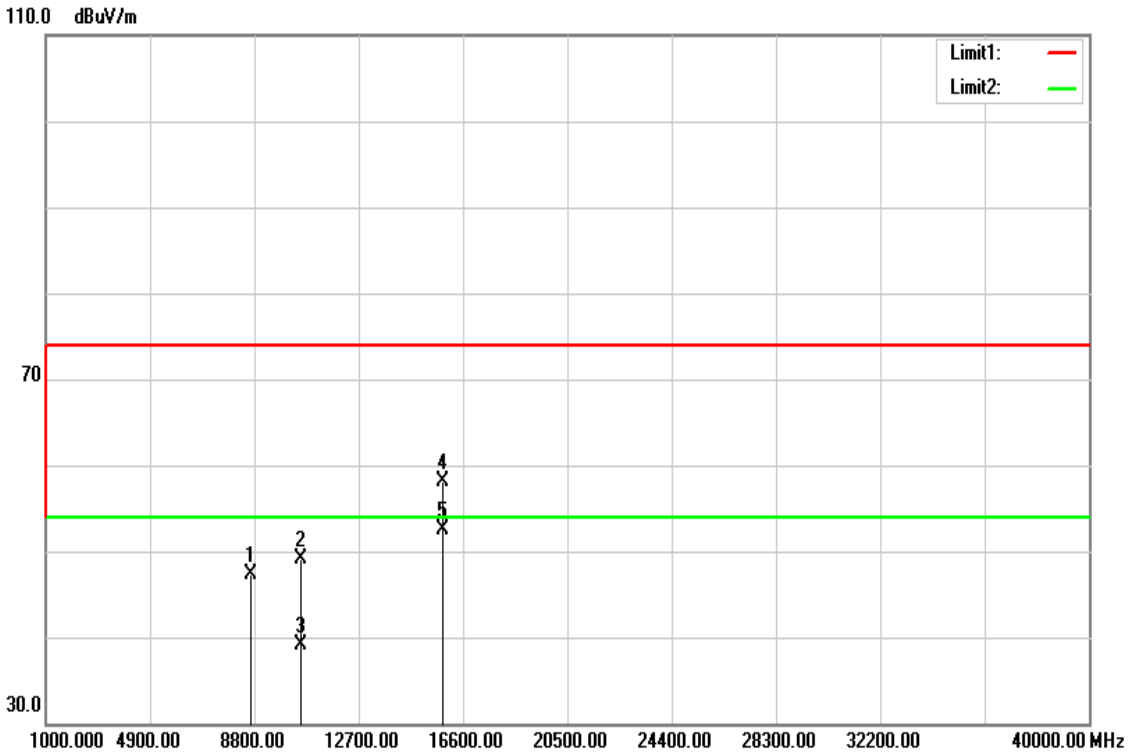
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
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).*

Tx / IEEE 802.11n HT 20 MHz mode / CH Mid

Polarity: Vertical



Polarity: Horizontal



Operation Mode:	Tx / IEEE 802.11n HT 20 MHz mode / CH Mid	**Test Date:**	June 1, 2016
Temperature:	27°C	**Tested by:**	Dennis Li
Humidity:	53% RH	**Polarity:**	Ver. / Hor.

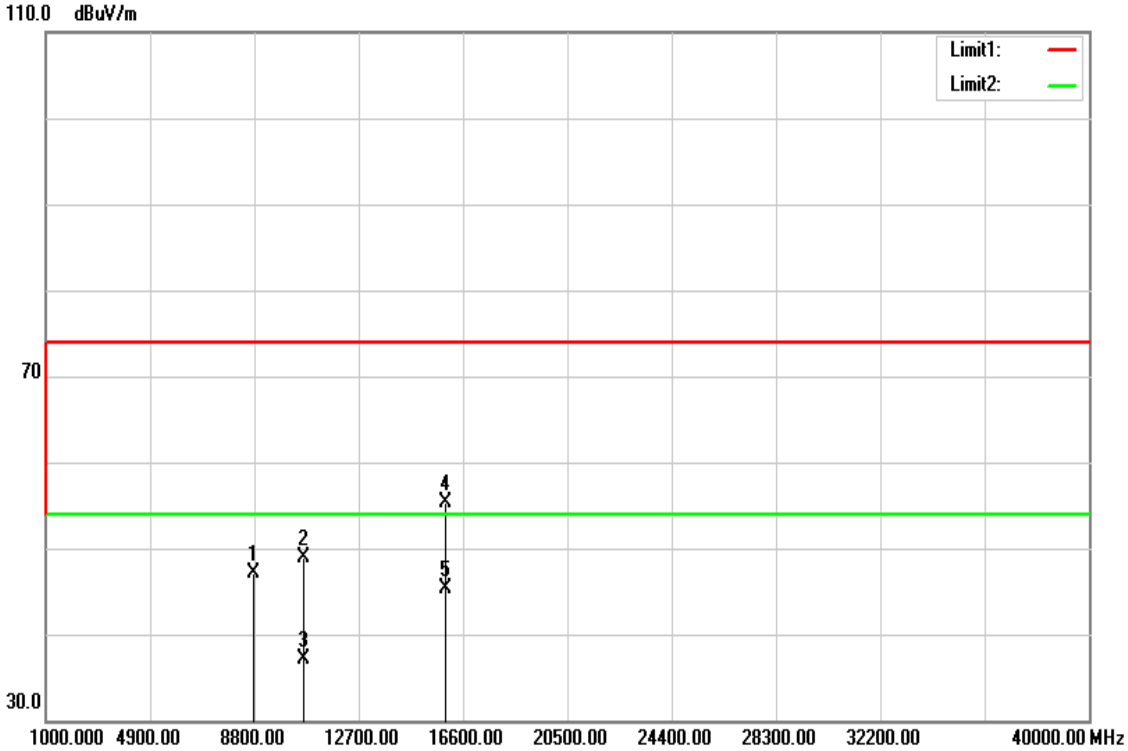
Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
8647.000	33.17	13.71	46.88	74.00	-27.12	peak	V
10560.000	31.60	17.11	48.71	74.00	-25.29	peak	V
10560.000	21.87	17.11	38.98	54.00	-15.02	AVG	V
15840.000	37.84	19.30	57.14	74.00	-16.86	peak	V
15840.000	28.68	19.30	47.98	54.00	-6.02	AVG	V
N/A							
8652.000	33.66	13.71	47.37	74.00	-26.63	peak	H
10560.000	31.92	17.11	49.03	74.00	-24.97	peak	H
10560.000	21.90	17.11	39.01	54.00	-14.99	AVG	H
15840.000	38.86	19.30	58.16	74.00	-15.84	peak	H
15840.000	33.30	19.30	52.60	54.00	-1.40	AVG	H
N/A							

Remark:

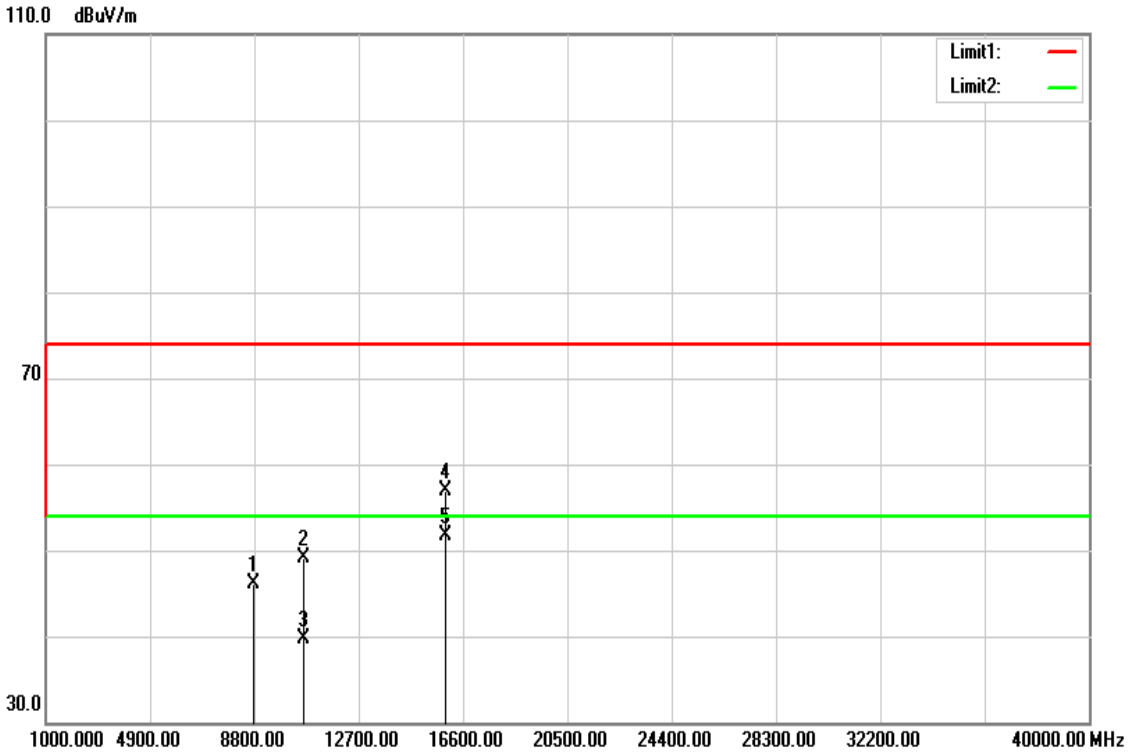
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
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).*

Tx / IEEE 802.11n HT 20 MHz mode / CH High

Polarity: Vertical



Polarity: Horizontal



Operation Mode:	Tx / IEEE 802.11n HT 20 MHz mode / CH High	**Test Date:**	June 1, 2016
Temperature:	27°C	**Tested by:**	Dennis Li
Humidity:	53% RH	**Polarity:**	Ver. / Hor.

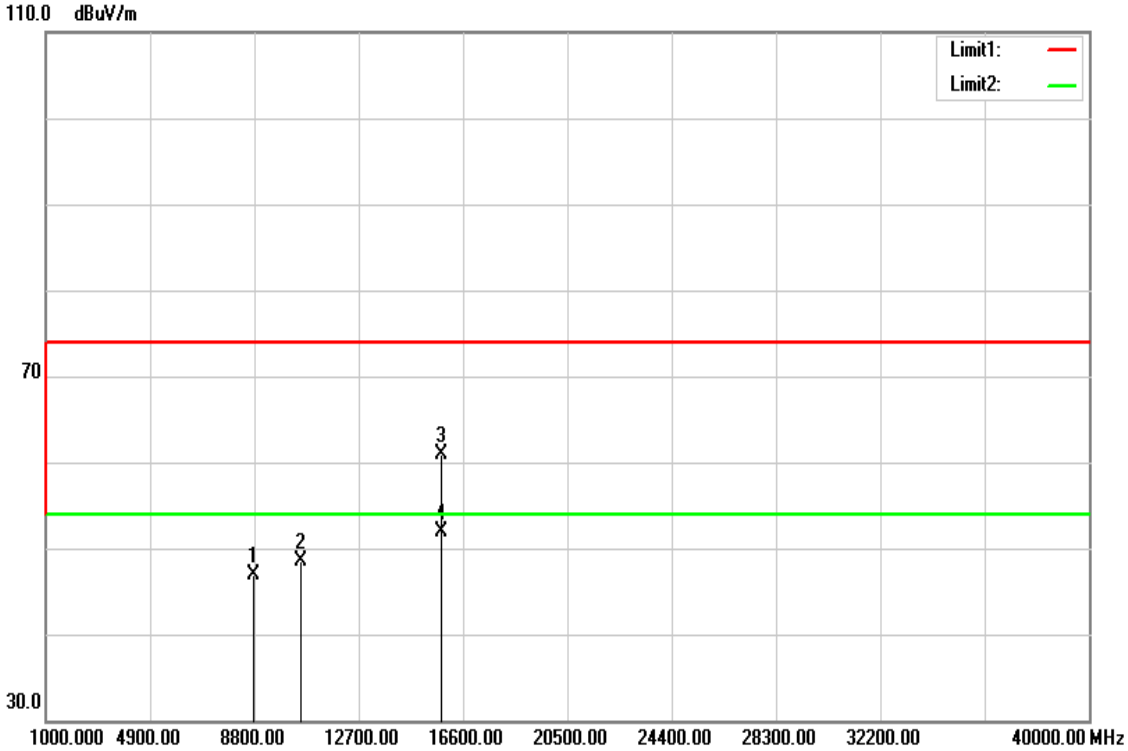
Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
8766.000	33.42	13.76	47.18	74.00	-26.82	peak	V
10640.000	31.81	17.04	48.85	74.00	-25.15	peak	V
10640.000	20.11	17.04	37.15	54.00	-16.85	AVG	V
15960.000	35.94	19.40	55.34	74.00	-18.66	peak	V
15960.000	25.97	19.40	45.37	54.00	-8.63	AVG	V
N/A							
8788.000	32.25	13.77	46.02	74.00	-27.98	peak	H
10640.000	32.02	17.04	49.06	74.00	-24.94	peak	H
10640.000	22.70	17.04	39.74	54.00	-14.26	AVG	H
15960.000	37.59	19.40	56.99	74.00	-17.01	peak	H
15960.000	32.22	19.40	51.62	54.00	-2.38	AVG	H
N/A							

Remark:

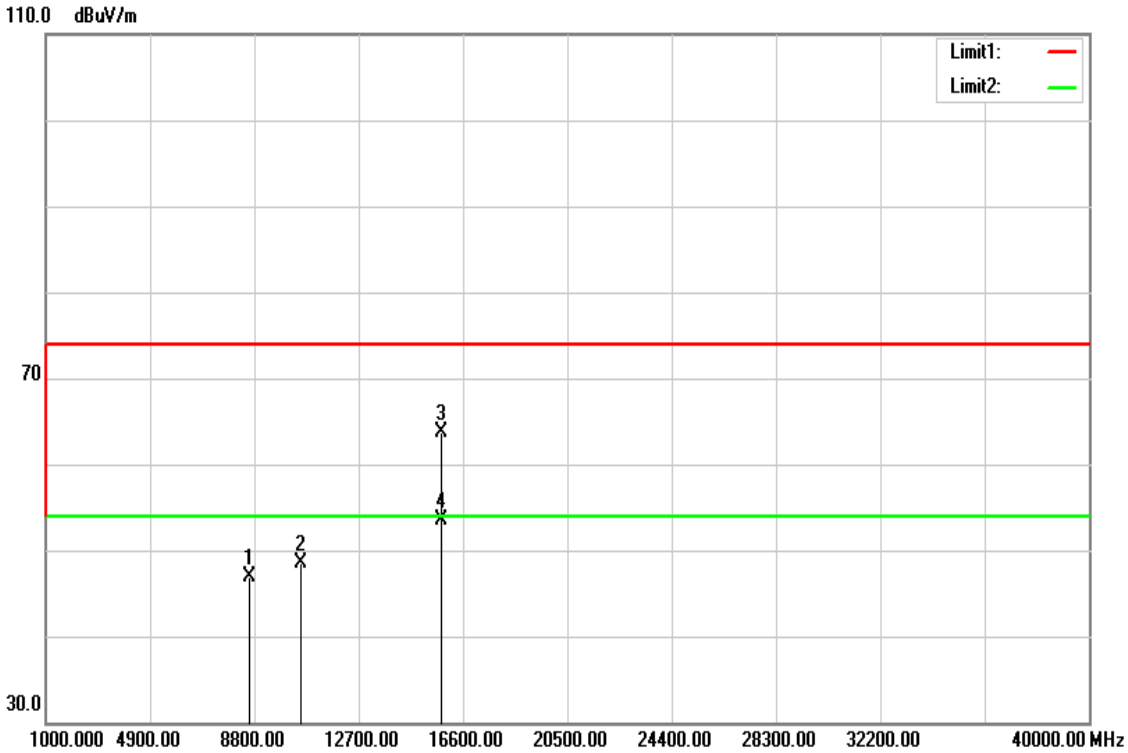
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
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).*

Tx / IEEE 802.11n HT 40 MHz mode / CH Low

Polarity: Vertical



Polarity: Horizontal



Operation Mode:	Tx / IEEE 802.11n HT 40 MHz mode / CH Low	**Test Date:**	June 1, 2016
Temperature:	27°C	**Tested by:**	Dennis Li
Humidity:	53% RH	**Polarity:**	Ver. / Hor.

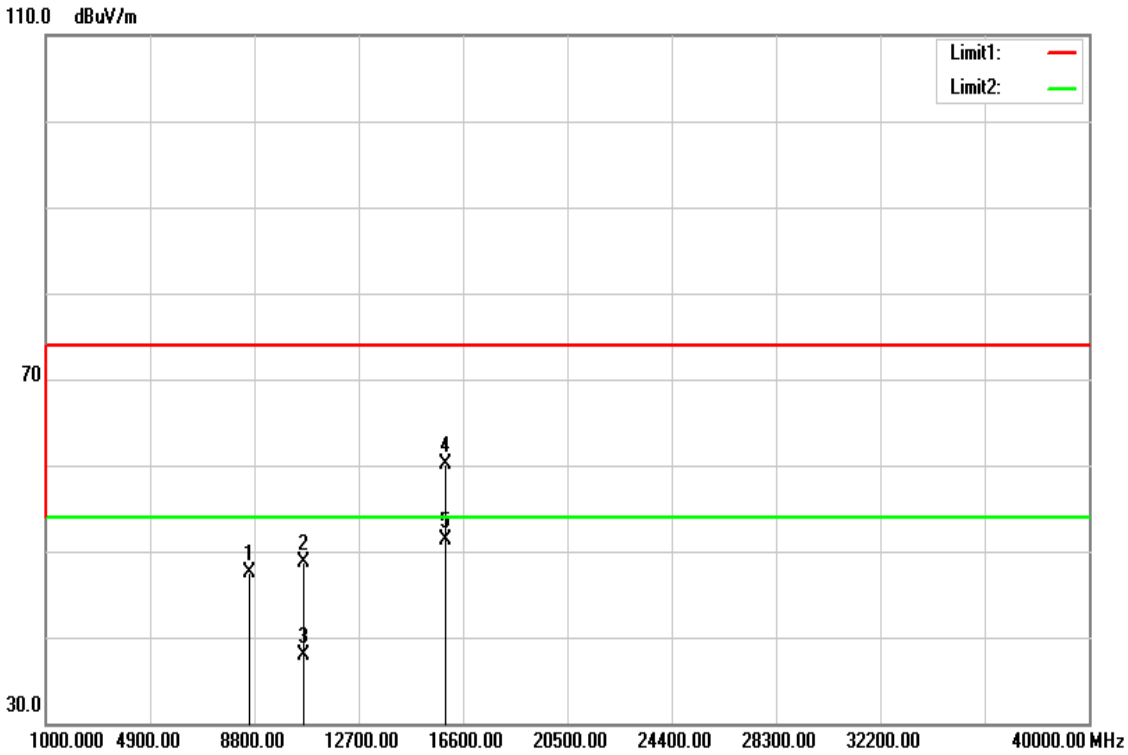
Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
8753.000	33.17	13.76	46.93	74.00	-27.07	peak	V
10540.000	31.43	17.13	48.56	74.00	-25.44	peak	V
15790.000	41.65	19.25	60.90	74.00	-13.10	peak	V
15790.000	32.66	19.25	51.91	54.00	-2.09	AVG	V
N/A							
8603.000	33.19	13.69	46.88	74.00	-27.12	peak	H
10540.000	31.46	17.13	48.59	74.00	-25.41	peak	H
15810.000	44.38	19.27	63.65	74.00	-10.35	peak	H
15810.000	34.21	19.27	53.48	54.00	-0.52	AVG	H
N/A							

Remark:

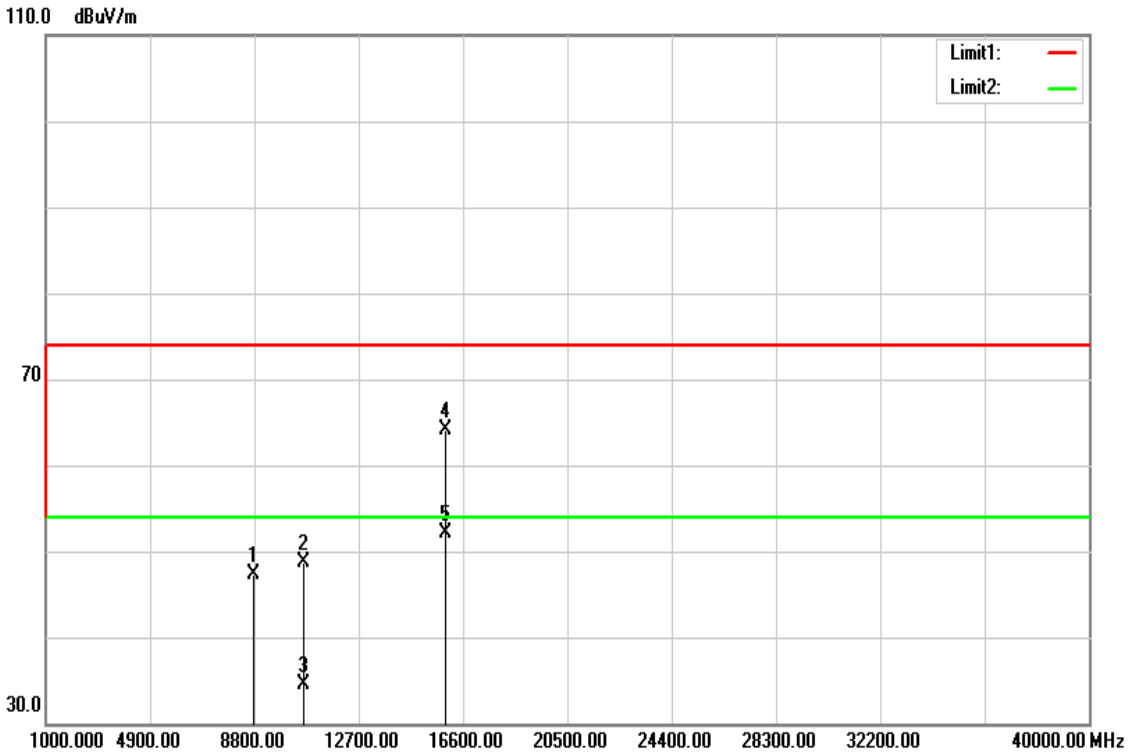
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
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).*

Tx / IEEE 802.11n HT 40 MHz mode / CH High

Polarity: Vertical



Polarity: Horizontal



Operation Mode:	Tx / IEEE 802.11n HT 40 MHz mode / CH High	**Test Date:**	June 1, 2016
Temperature:	27°C	**Tested by:**	Dennis Li
Humidity:	53% RH	**Polarity:**	Ver. / Hor.

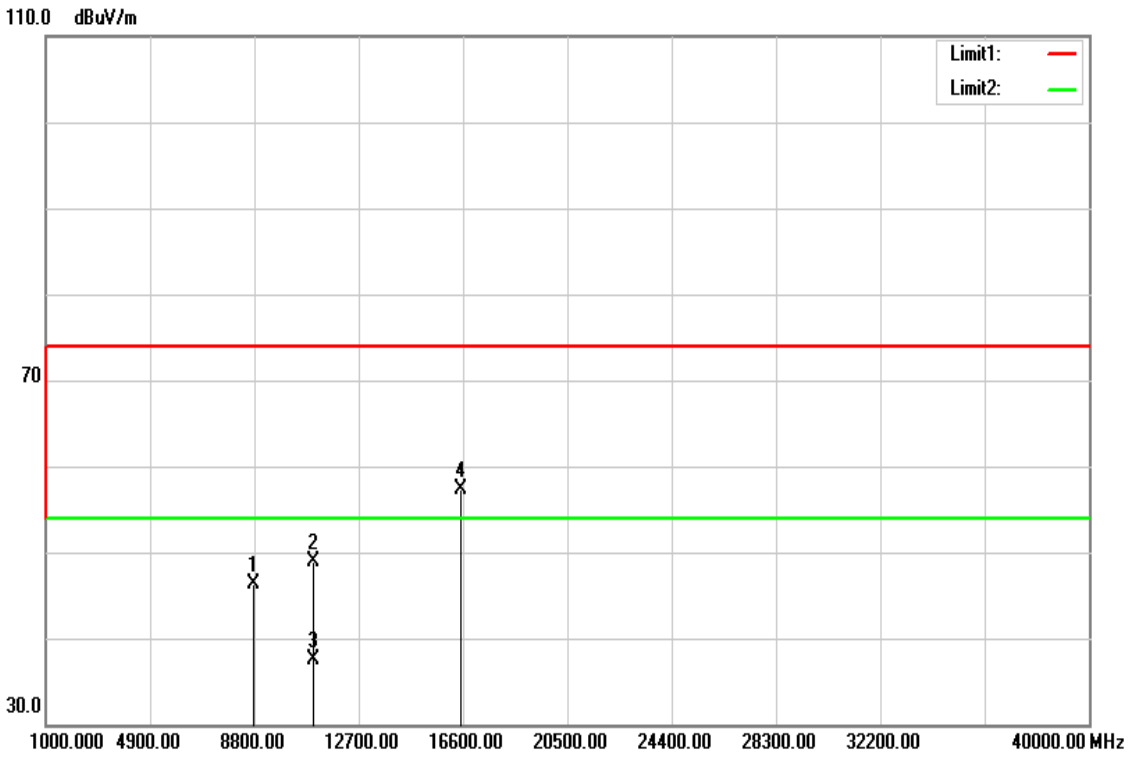
Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
8609.000	33.89	13.69	47.58	74.00	-26.42	peak	V
10620.000	31.67	17.06	48.73	74.00	-25.27	peak	V
10620.000	20.82	17.06	37.88	54.00	-16.12	AVG	V
15940.000	40.65	19.38	60.03	74.00	-13.97	peak	V
15940.000	31.86	19.38	51.24	54.00	-2.76	AVG	V
N/A							
8775.000	33.61	13.77	47.38	74.00	-26.62	peak	H
10620.000	31.69	17.06	48.75	74.00	-25.25	peak	H
10620.000	17.39	17.06	34.45	54.00	-19.55	AVG	H
15940.000	44.64	19.38	64.02	74.00	-9.98	peak	H
15940.000	32.69	19.38	52.07	54.00	-1.93	AVG	H
N/A							

Remark:

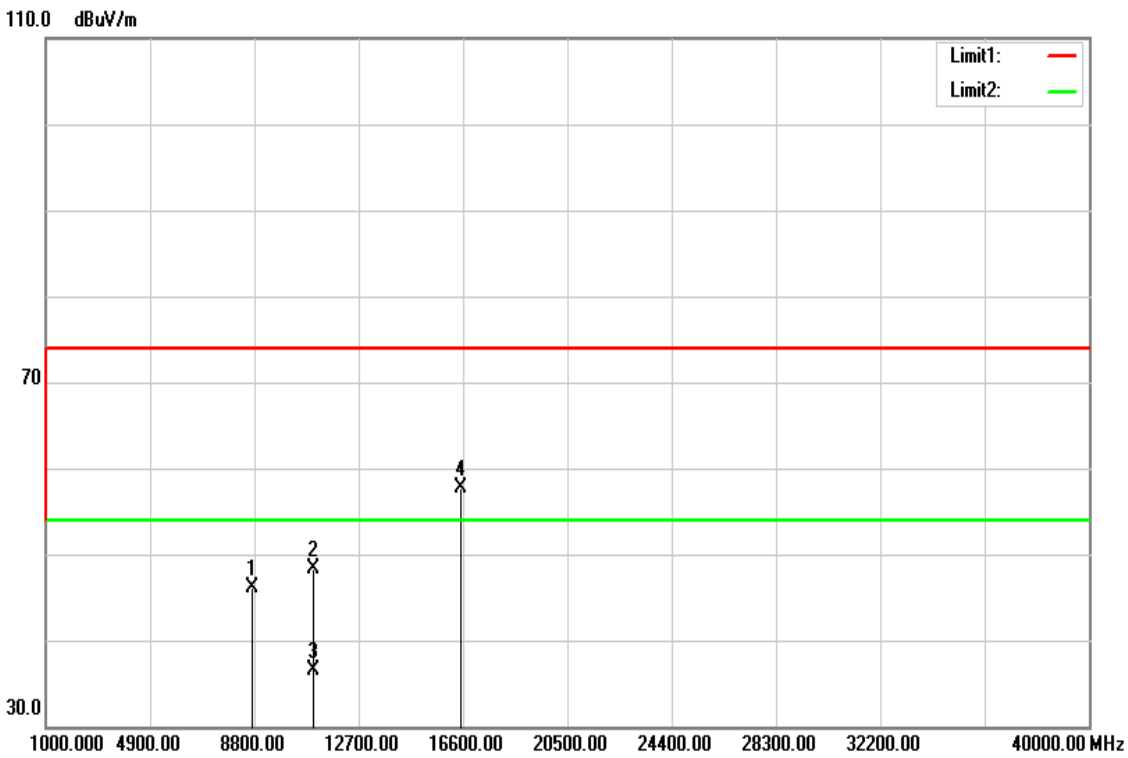
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
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).*

U-NII-2C
Tx / IEEE 802.11a mode / CH Low

Polarity: Vertical



Polarity: Horizontal



Operation Mode: Tx / IEEE 802.11a mode / CH Low **Test Date:** June 1, 2016

Temperature: 27°C **Tested by:** Dennis Li

Humidity: 53% RH **Polarity:** Ver. / Hor.

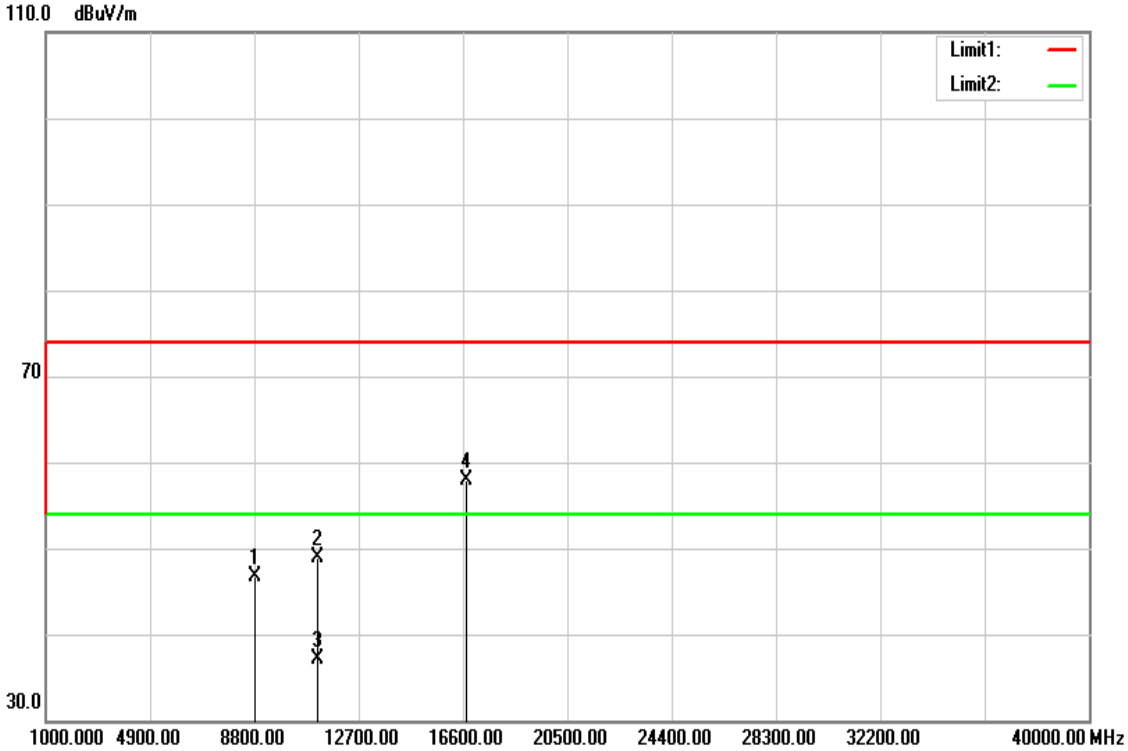
Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
8758.000	32.58	13.76	46.34	74.00	-27.66	peak	V
11000.000	32.20	16.73	48.93	74.00	-25.07	peak	V
11000.000	20.81	16.73	37.54	54.00	-16.46	AVG	V
16500.000	35.82	21.39	57.21	74.00	-16.79	peak	V
N/A							
8744.000	32.43	13.75	46.18	74.00	-27.82	peak	H
11000.000	31.60	16.73	48.33	74.00	-25.67	peak	H
11000.000	19.79	16.73	36.52	54.00	-17.48	AVG	H
16500.000	36.40	21.39	57.79	74.00	-16.21	peak	H
N/A							

Remark:

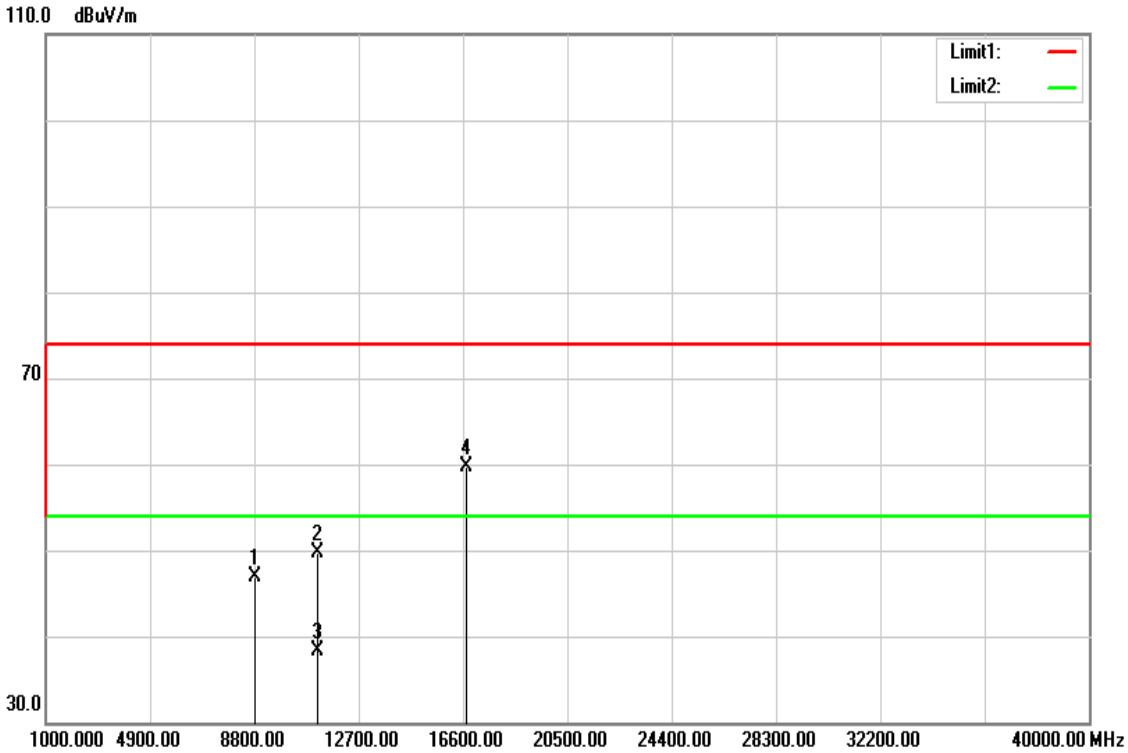
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average 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).*

Tx / IEEE 802.11a mode / CH Mid

Polarity: Vertical



Polarity: Horizontal



Operation Mode: Tx / IEEE 802.11a mode / CH Mid **Test Date:** June 1, 2016

Temperature: 27°C **Tested by:** Dennis Li

Humidity: 53% RH **Polarity:** Ver. / Hor.

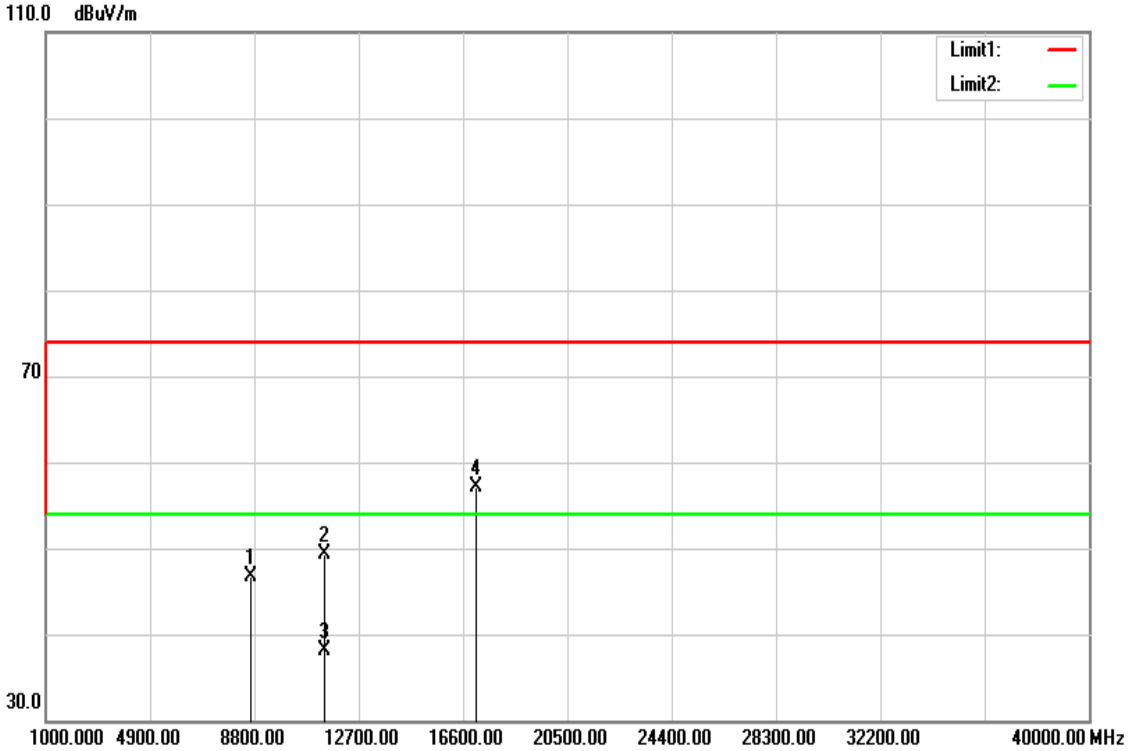
Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
8844.000	32.86	13.80	46.66	74.00	-27.34	peak	V
11160.000	32.12	16.75	48.87	74.00	-25.13	peak	V
11160.000	20.30	16.75	37.05	54.00	-16.95	AVG	V
16740.000	35.03	22.82	57.85	74.00	-16.15	peak	V
N/A							
8849.000	33.07	13.80	46.87	74.00	-27.13	peak	H
11160.000	32.94	16.75	49.69	74.00	-24.31	peak	H
11160.000	21.51	16.75	38.26	54.00	-15.74	AVG	H
16740.000	36.88	22.82	59.70	74.00	-14.30	peak	H
N/A							

Remark:

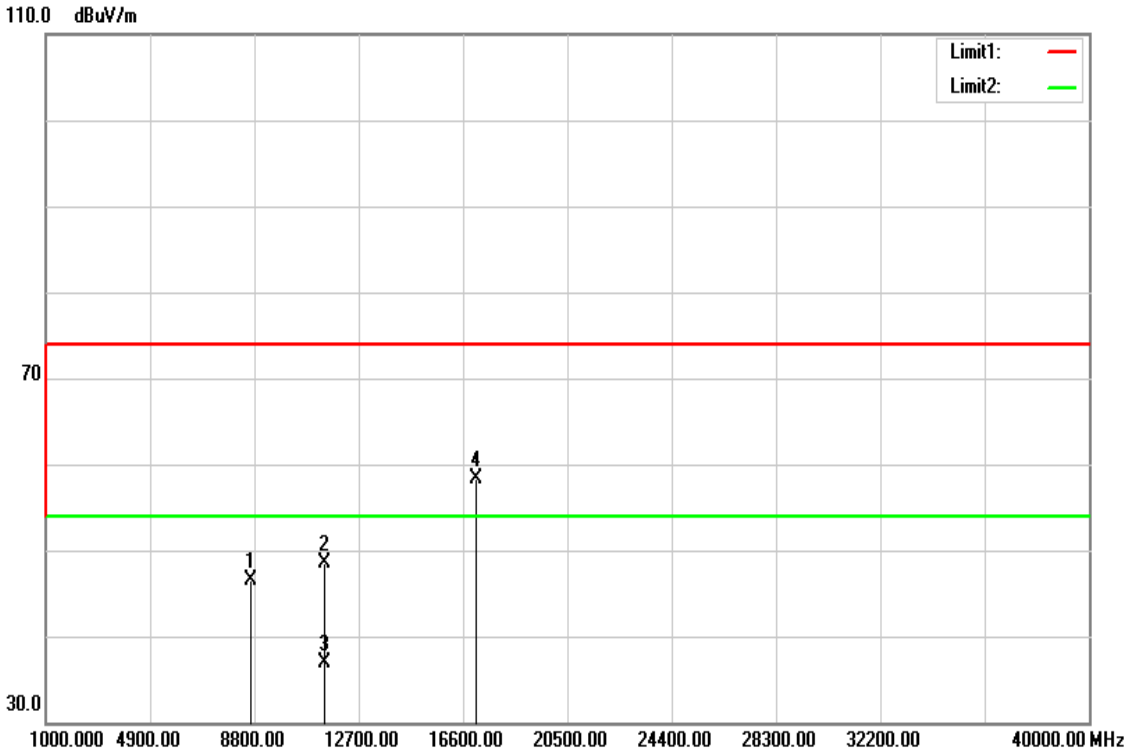
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average 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).*

Tx / IEEE 802.11a mode / CH High

Polarity: Vertical



Polarity: Horizontal



Operation Mode: Tx / IEEE 802.11a mode / CH High **Test Date:** June 1, 2016

Temperature: 27°C **Tested by:** Dennis Li

Humidity: 53% RH **Polarity:** Ver. / Hor.

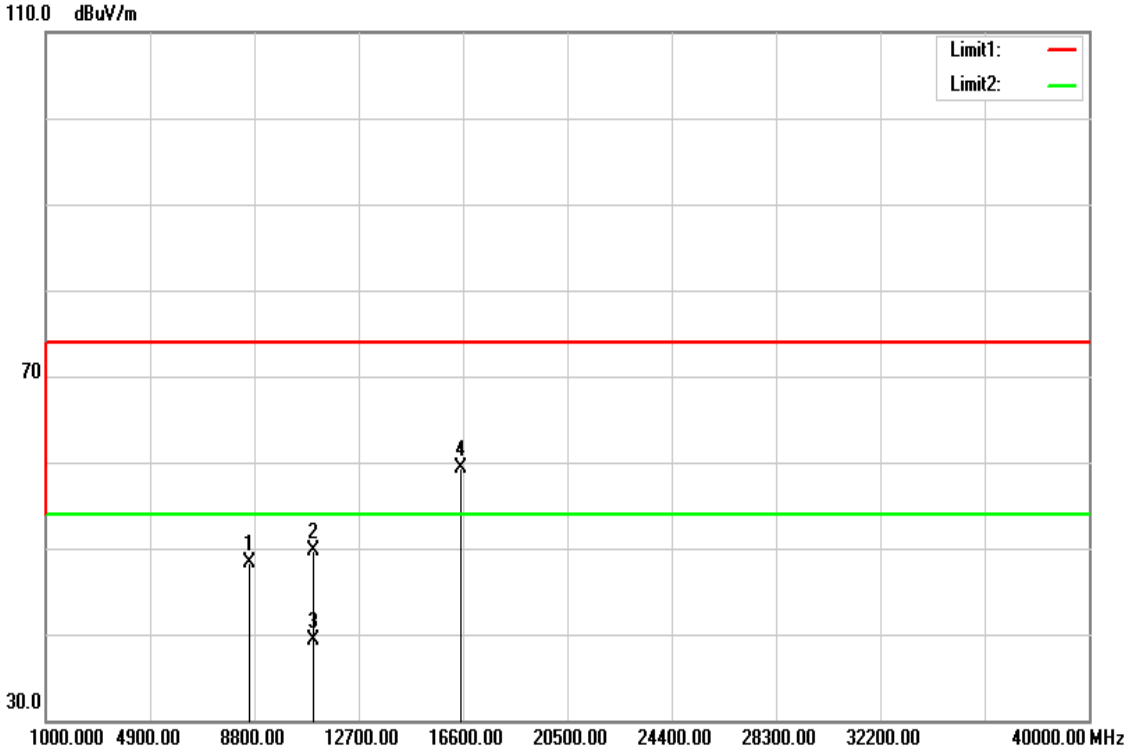
Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
8687.000	33.05	13.73	46.78	74.00	-27.22	peak	V
11400.000	32.52	16.77	49.29	74.00	-24.71	peak	V
11400.000	21.39	16.77	38.16	54.00	-15.84	AVG	V
17100.000	32.41	24.75	57.16	74.00	-16.84	peak	V
N/A							
8646.000	32.88	13.71	46.59	74.00	-27.41	peak	H
11400.000	31.78	16.77	48.55	74.00	-25.45	peak	H
11400.000	20.11	16.77	36.88	54.00	-17.12	AVG	H
17100.000	33.47	24.75	58.22	74.00	-15.78	peak	H
N/A							

Remark:

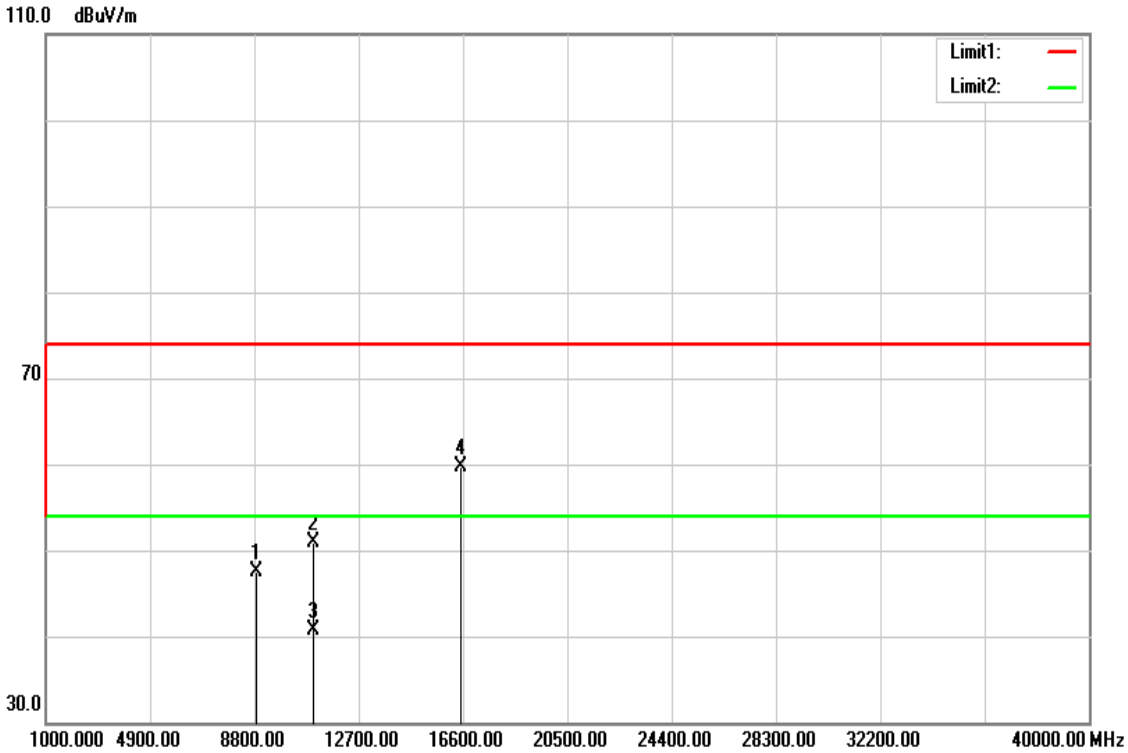
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average 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).*

Tx / IEEE 802.11n HT 20 MHz mode / CH Low

Polarity: Vertical



Polarity: Horizontal



Operation Mode:	Tx / IEEE 802.11n HT 20 MHz mode / CH Low	**Test Date:**	June 1, 2016
Temperature:	27°C	**Tested by:**	Dennis Li
Humidity:	53% RH	**Polarity:**	Ver. / Hor.

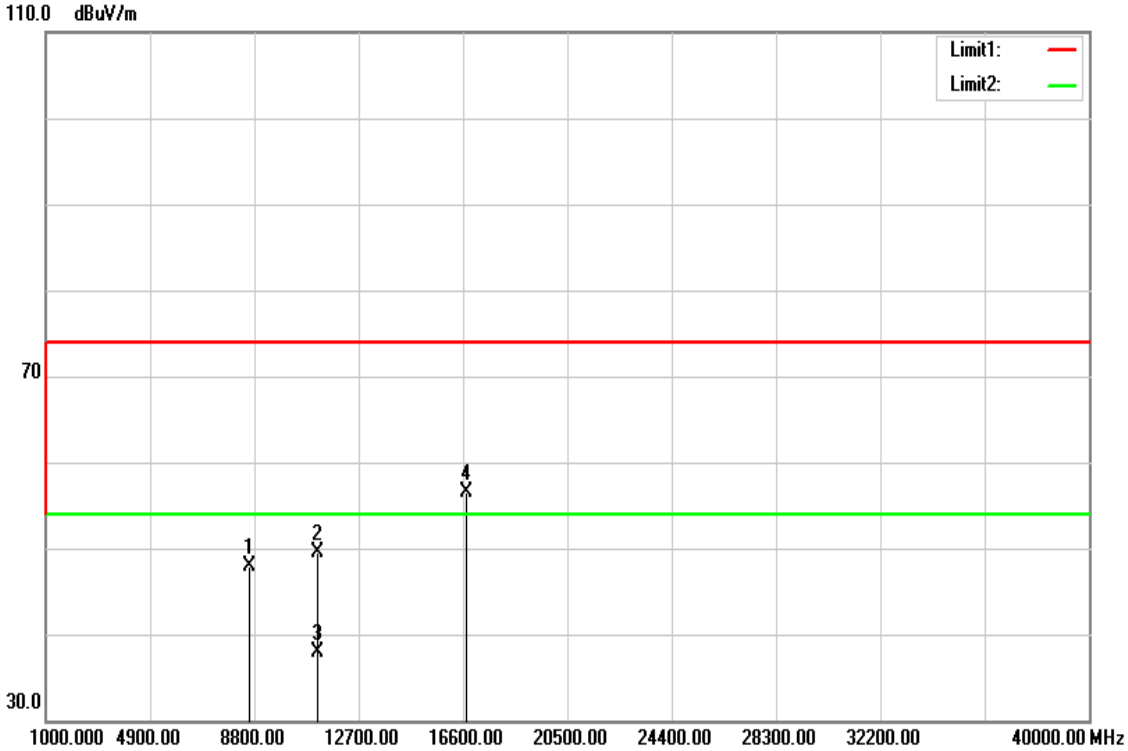
Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
8642.000	34.51	13.71	48.22	74.00	-25.78	peak	V
11000.000	33.01	16.73	49.74	74.00	-24.26	peak	V
11000.000	22.58	16.73	39.31	54.00	-14.69	AVG	V
16500.000	37.87	21.39	59.26	74.00	-14.74	peak	V
N/A							
8852.000	33.65	13.80	47.45	74.00	-26.55	peak	H
11000.000	34.11	16.73	50.84	74.00	-23.16	peak	H
11000.000	24.04	16.73	40.77	54.00	-13.23	AVG	H
16500.000	38.29	21.39	59.68	74.00	-14.32	peak	H
N/A							

Remark:

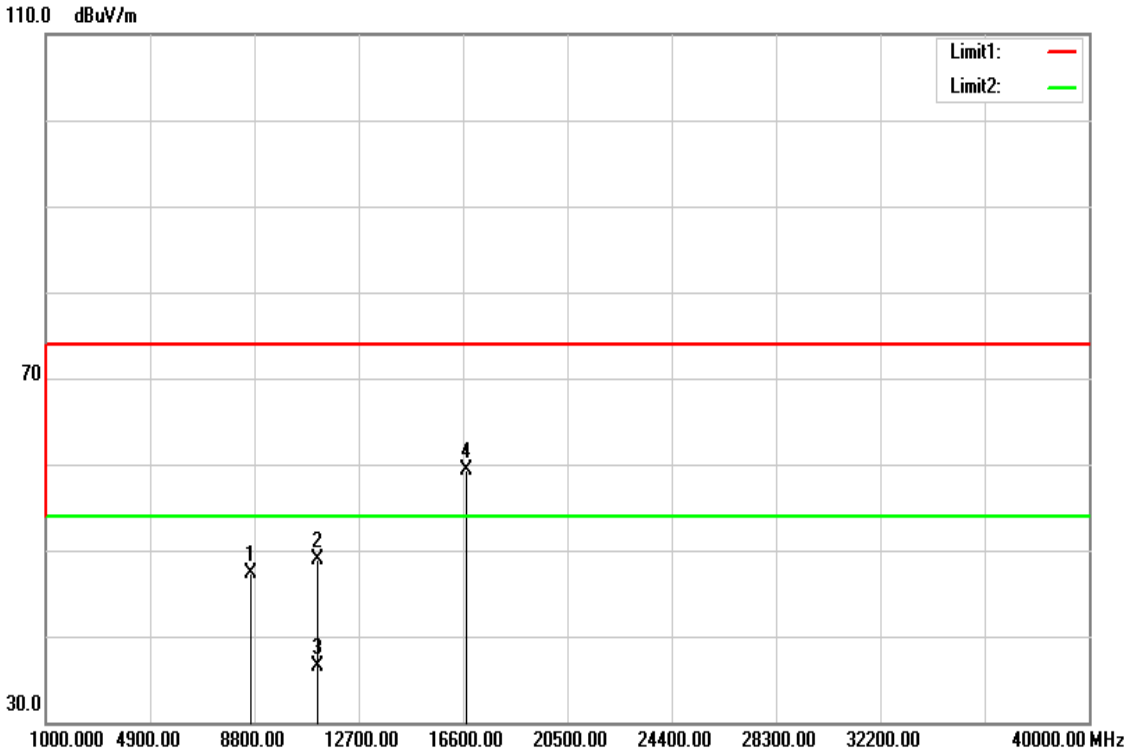
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average 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).*

Tx / IEEE 802.11n HT 20 MHz mode / CH Mid

Polarity: Vertical



Polarity: Horizontal



Operation Mode:	Tx / IEEE 802.11n HT 20 MHz mode / CH Mid	**Test Date:**	June 1, 2016
Temperature:	27°C	**Tested by:**	Dennis Li
Humidity:	53% RH	**Polarity:**	Ver. / Hor.

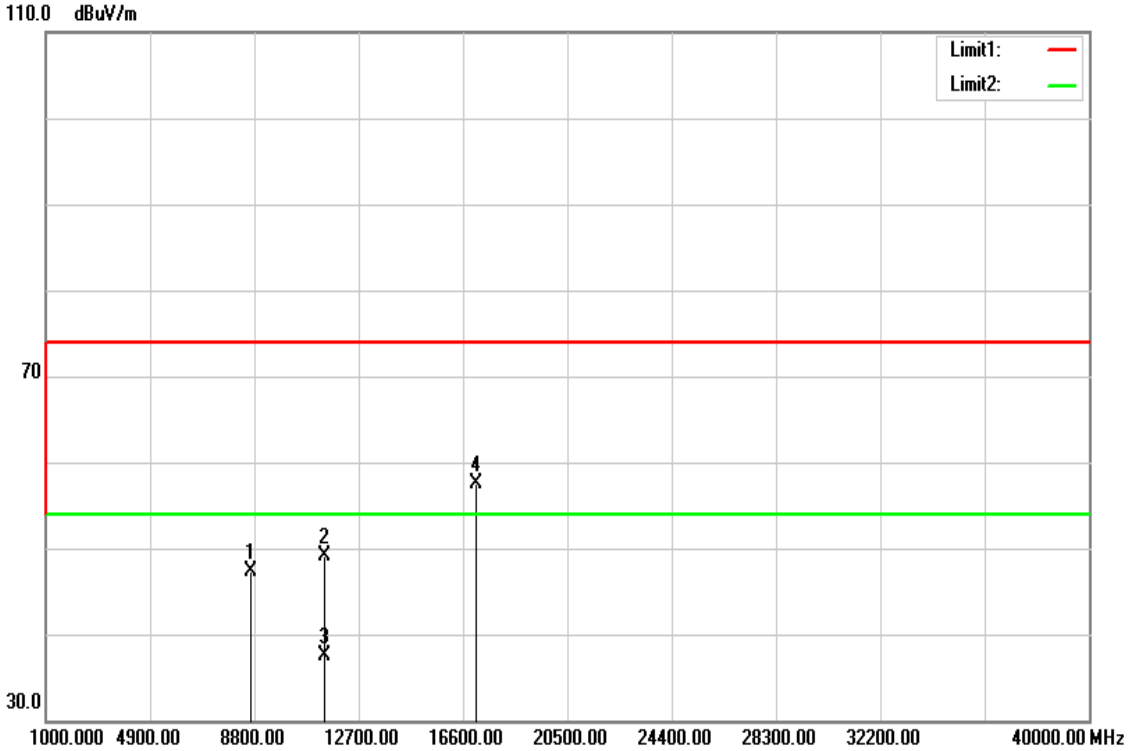
Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
8631.000	34.20	13.70	47.90	74.00	-26.10	peak	V
11160.000	32.81	16.75	49.56	74.00	-24.44	peak	V
11160.000	21.09	16.75	37.84	54.00	-16.16	AVG	V
16740.000	33.72	22.82	56.54	74.00	-17.46	peak	V
N/A							
8648.000	33.50	13.71	47.21	74.00	-26.79	peak	H
11160.000	32.09	16.75	48.84	74.00	-25.16	peak	H
11160.000	19.83	16.75	36.58	54.00	-17.42	AVG	H
16740.000	36.46	22.82	59.28	74.00	-14.72	peak	H
N/A							

Remark:

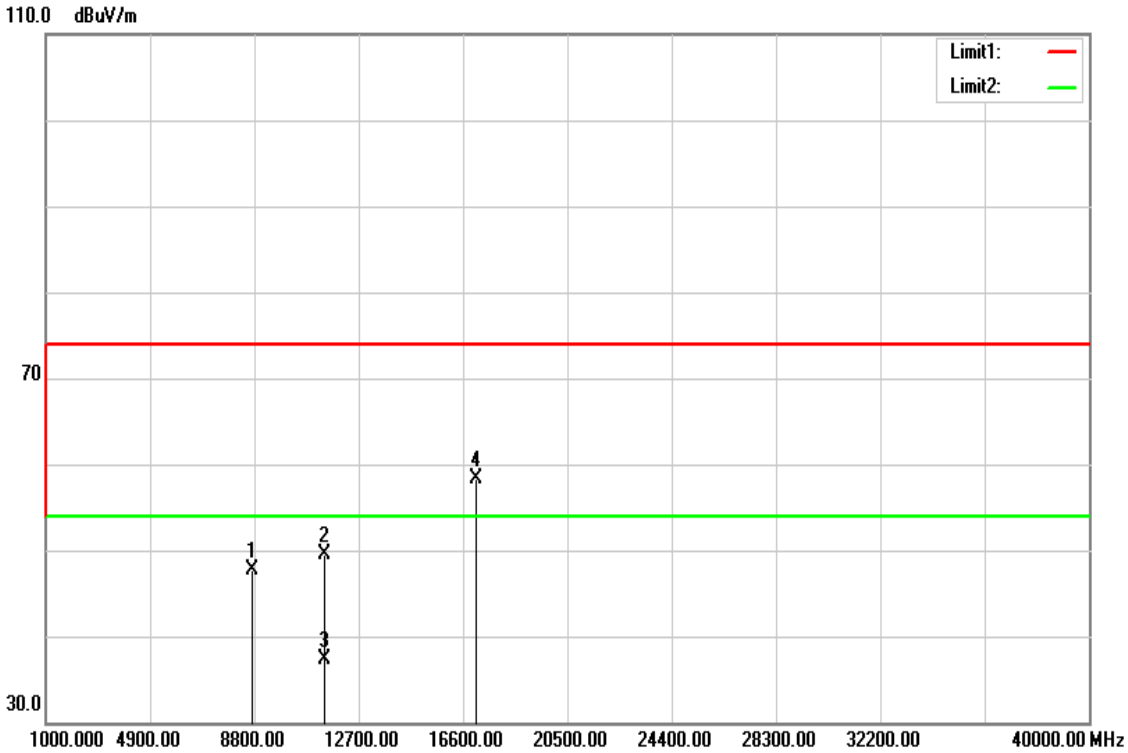
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average 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).*

Tx / IEEE 802.11n HT 20 MHz mode / CH High

Polarity: Vertical



Polarity: Horizontal



Operation Mode:	Tx / IEEE 802.11n HT 20 MHz mode / CH High	**Test Date:**	June 1, 2016
Temperature:	27°C	**Tested by:**	Dennis Li
Humidity:	53% RH	**Polarity:**	Ver. / Hor.

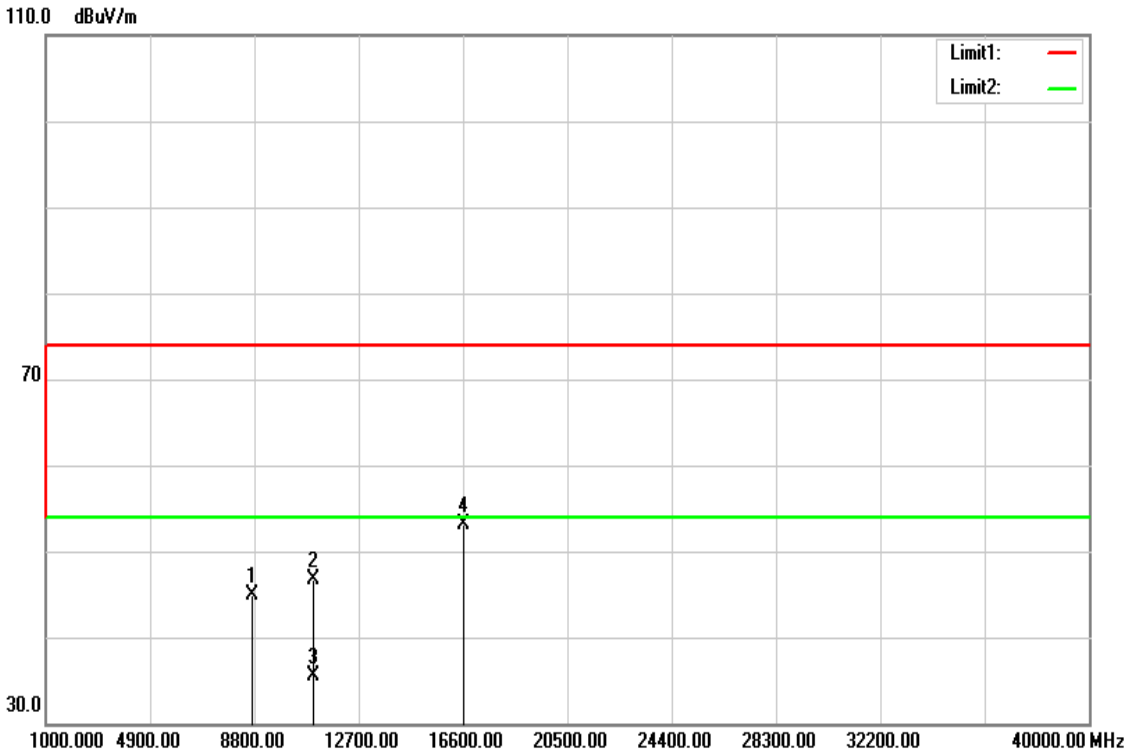
Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
8678.000	33.55	13.72	47.27	74.00	-26.73	peak	V
11400.000	32.38	16.77	49.15	74.00	-24.85	peak	V
11400.000	20.67	16.77	37.44	54.00	-16.56	AVG	V
17100.000	32.84	24.75	57.59	74.00	-16.41	peak	V
N/A							
8714.000	33.95	13.74	47.69	74.00	-26.31	peak	H
11400.000	32.81	16.77	49.58	74.00	-24.42	peak	H
11400.000	20.48	16.77	37.25	54.00	-16.75	AVG	H
17100.000	33.62	24.75	58.37	74.00	-15.63	peak	H
N/A							

Remark:

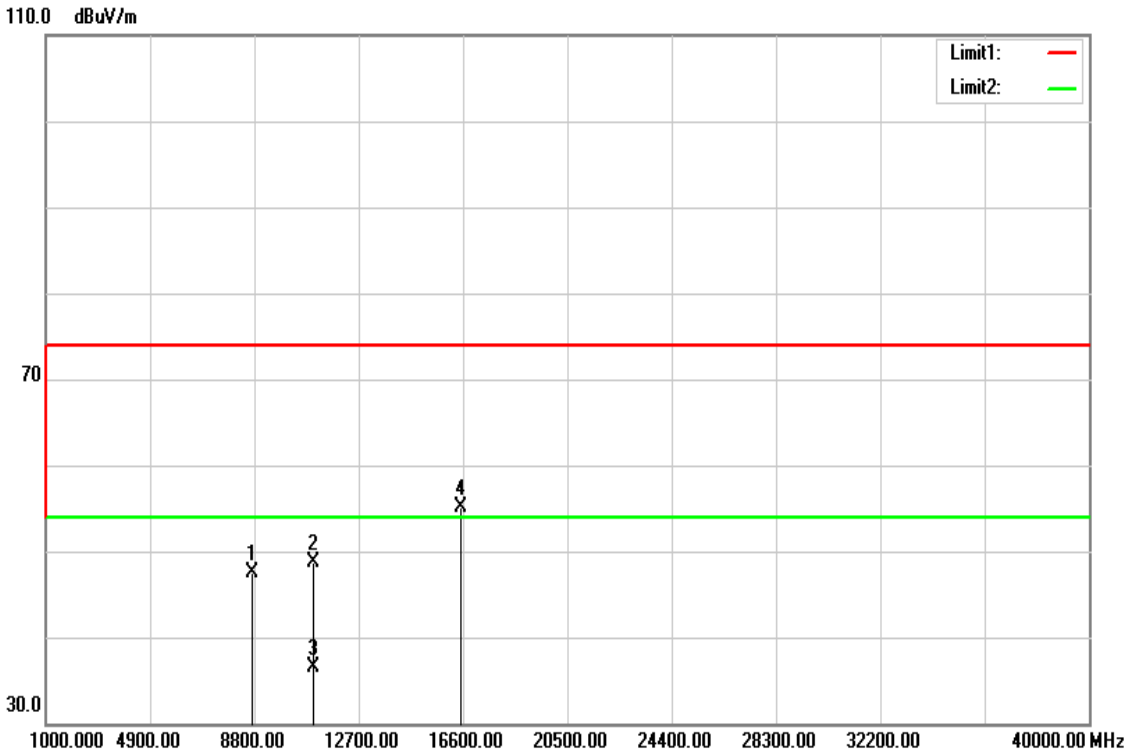
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average 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).*

Tx / IEEE 802.11n HT 40 MHz mode / CH Low

Polarity: Vertical



Polarity: Horizontal



Operation Mode:	Tx / IEEE 802.11n HT 40 MHz mode / CH Low	**Test Date:**	June 1, 2016
Temperature:	27°C	**Tested by:**	Dennis Li
Humidity:	53% RH	**Polarity:**	Ver. / Hor.

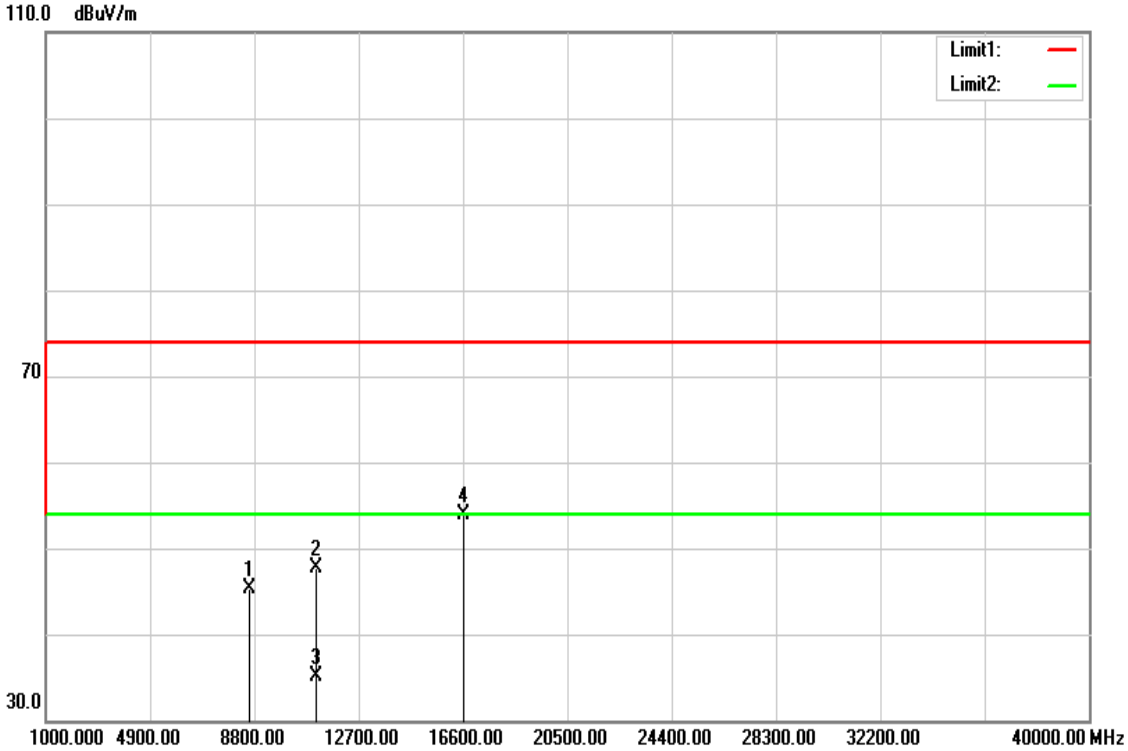
Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
8721.000	31.18	13.74	44.92	74.00	-29.08	peak	V
11020.000	29.98	16.73	46.71	74.00	-27.29	peak	V
11020.000	18.75	16.73	35.48	54.00	-18.52	AVG	V
16650.000	30.91	22.28	53.19	74.00	-20.81	peak	V
N/A							
8745.000	33.78	13.75	47.53	74.00	-26.47	peak	H
11020.000	32.03	16.73	48.76	74.00	-25.24	peak	H
11020.000	19.81	16.73	36.54	54.00	-17.46	AVG	H
16530.000	33.52	21.57	55.09	74.00	-18.91	peak	H
N/A							

Remark:

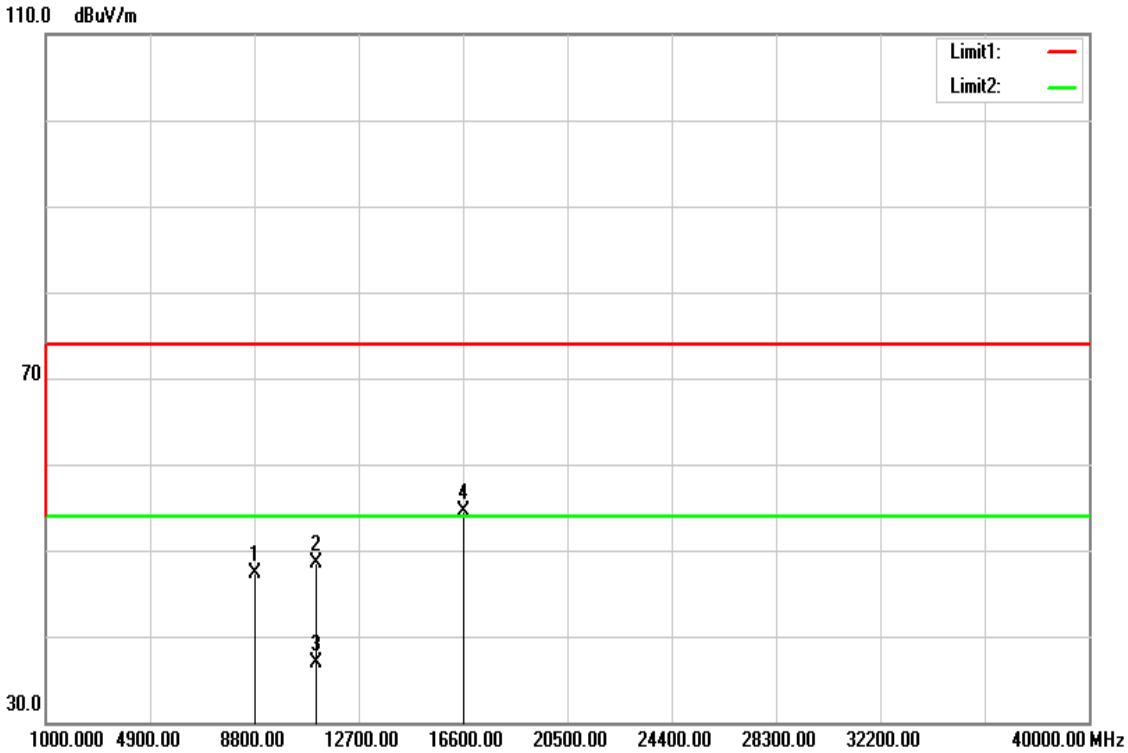
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average 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).*

Tx / IEEE 802.11n HT 40 MHz mode / CH Mid

Polarity: Vertical



Polarity: Horizontal



Operation Mode:	Tx / IEEE 802.11n HT 40 MHz mode / CH Mid	**Test Date:**	June 1, 2016
Temperature:	27°C	**Tested by:**	Dennis Li
Humidity:	53% RH	**Polarity:**	Ver. / Hor.

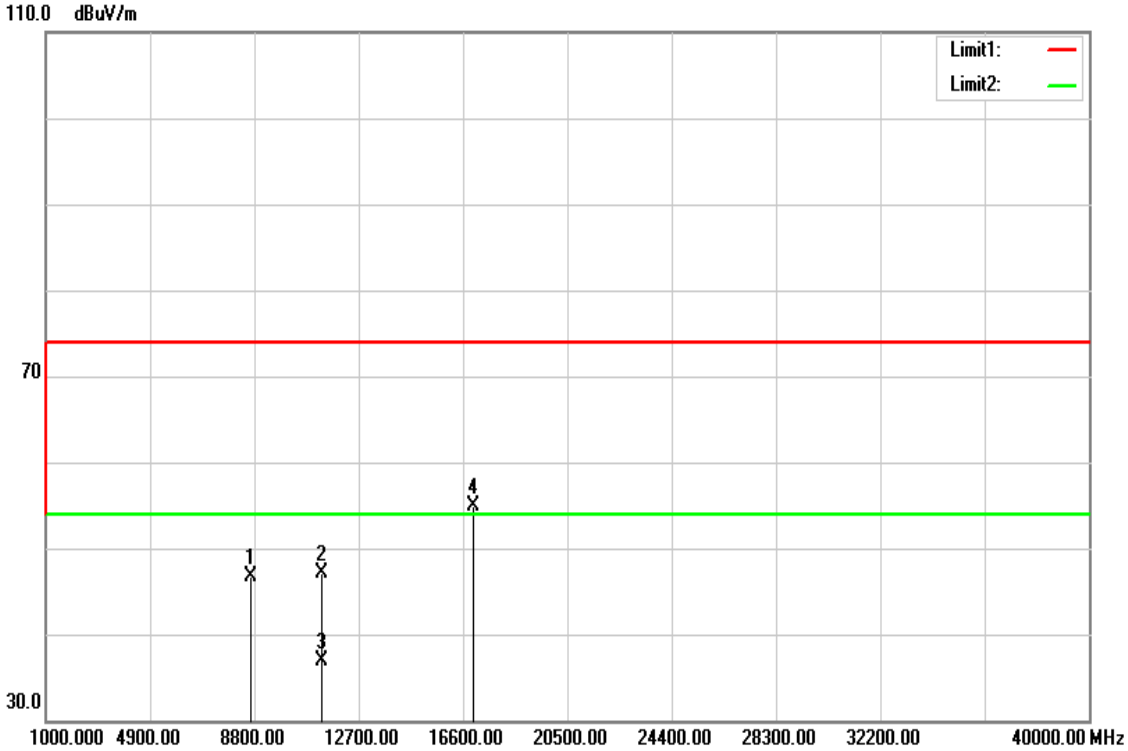
Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
8637.000	31.61	13.70	45.31	74.00	-28.69	peak	V
11100.000	31.05	16.74	47.79	74.00	-26.21	peak	V
11100.000	18.44	16.74	35.18	54.00	-18.82	AVG	V
16650.000	31.65	22.28	53.93	74.00	-20.07	peak	V
N/A							
8847.000	33.49	13.80	47.29	74.00	-26.71	peak	H
11100.000	31.84	16.74	48.58	74.00	-25.42	peak	H
11100.000	20.22	16.74	36.96	54.00	-17.04	AVG	H
16650.000	32.27	22.28	54.55	74.00	-19.45	peak	H
N/A							

Remark:

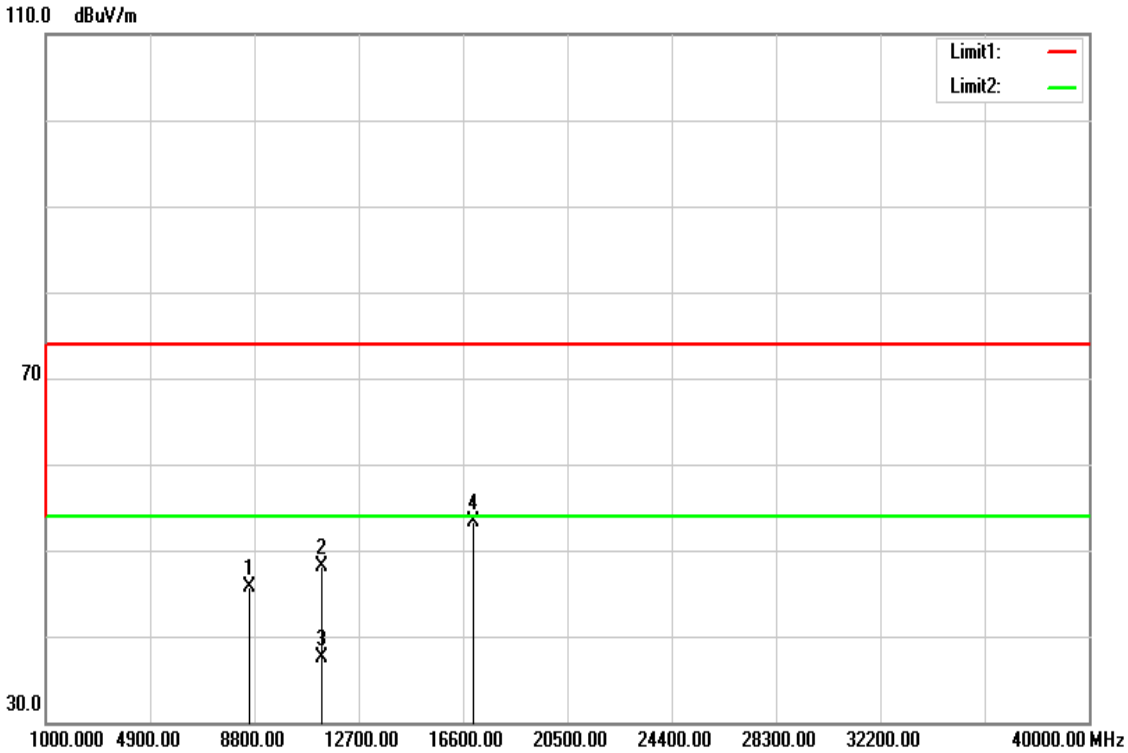
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average 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).*

Tx / IEEE 802.11n HT 40 MHz mode / CH High

Polarity: Vertical



Polarity: Horizontal



Operation Mode:	Tx / IEEE 802.11n HT 40 MHz mode / CH High	**Test Date:**	June 1, 2016
Temperature:	27°C	**Tested by:**	Dennis Li
Humidity:	53% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
8693.000	32.96	13.73	46.69	74.00	-27.31	peak	V
11340.000	30.26	16.76	47.02	74.00	-26.98	peak	V
11340.000	20.08	16.76	36.84	54.00	-17.16	AVG	V
17010.000	30.50	24.40	54.90	74.00	-19.10	peak	V
N/A							
8640.000	31.98	13.70	45.68	74.00	-28.32	peak	H
11340.000	31.28	16.76	48.04	74.00	-25.96	peak	H
11340.000	20.79	16.76	37.55	54.00	-16.45	AVG	H
17010.000	28.94	24.40	53.34	74.00	-20.66	peak	H
N/A							

Remark:

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).*

7.7 POWERLINE CONDUCTED EMISSIONS

LIMIT

According to §15.207(a) & RSS-Gen §7.2.4, except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency Range (MHz)	Limits (dBµV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

** Decreases with the logarithm of the frequency.*

Test Configuration

See test photographs attached in Appendix II for the actual connections between EUT and support equipment.

TEST PROCEDURE

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

TEST RESULTS

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Test Data

Operation Mode:	Normal Link	**Test Date:**	June 2, 2016
Temperature:	24°C	**Tested by:**	Dennis Li
Humidity:	50% RH		

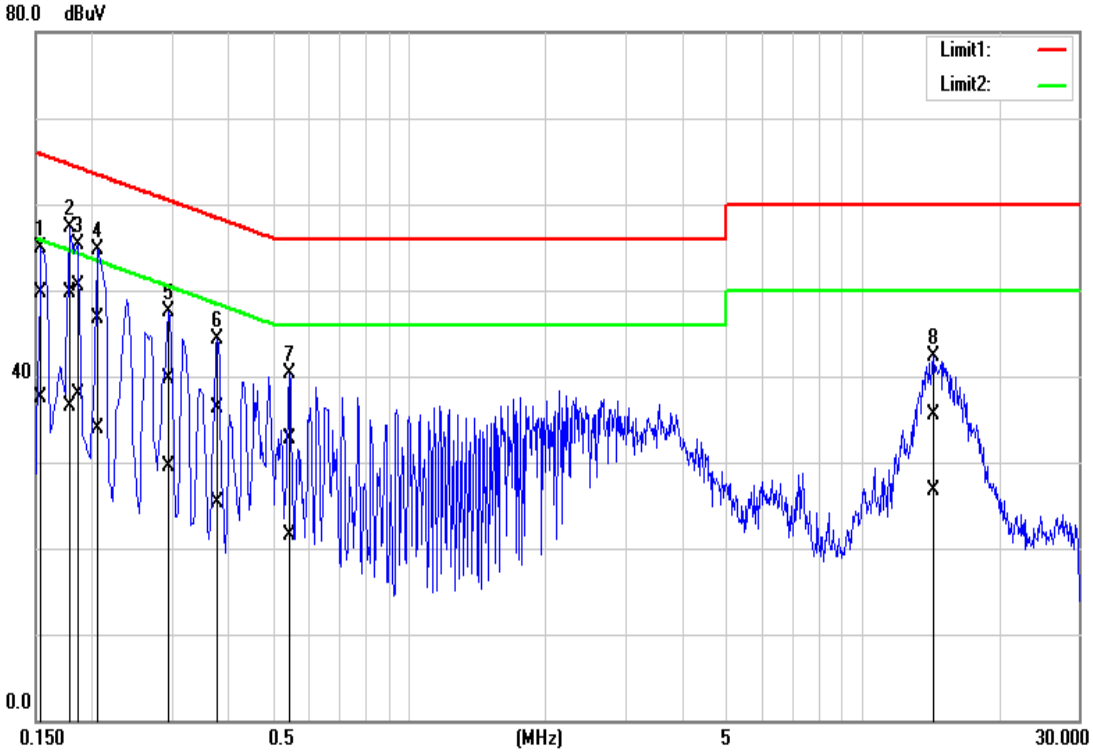
Freq. (MHz)	QP Reading (dBuV)	AV Reading (dBuV)	Corr. factor (dB/m)	QP Result (dBuV/m)	AV Result (dBuV/m)	QP Limit (dBuV)	AV Limit (dBuV)	QP Margin (dB)	AV Margin (dB)	Note
0.1539	39.96	27.77	9.81	49.77	37.58	65.78	55.79	-16.01	-18.21	L1
0.1780	39.87	26.78	9.82	49.69	36.60	64.57	54.58	-14.88	-17.98	L1
0.1860	40.78	28.17	9.82	50.60	37.99	64.21	54.21	-13.61	-16.22	L1
0.2060	36.88	24.11	9.83	46.71	33.94	63.36	53.37	-16.65	-19.43	L1
0.2940	29.82	19.59	9.82	39.64	29.41	60.41	50.41	-20.77	-21.00	L1
0.3780	26.44	15.54	9.81	36.25	25.35	58.32	48.32	-22.07	-22.97	L1
0.5460	22.82	11.76	9.81	32.63	21.57	56.00	46.00	-23.37	-24.43	L1
14.3220	25.29	16.49	10.25	35.54	26.74	60.00	50.00	-24.46	-23.26	L1
0.1700	44.26	31.49	9.89	54.15	41.38	64.96	54.96	-10.81	-13.58	L2
0.1980	43.34	29.91	9.90	53.24	39.81	63.69	53.69	-10.45	-13.88	L2
0.2220	38.31	24.96	9.90	48.21	34.86	62.74	52.74	-14.53	-17.88	L2
0.2580	35.65	22.41	9.89	45.54	32.30	61.50	51.50	-15.96	-19.20	L2
0.4780	29.09	16.17	9.87	38.96	26.04	56.37	46.37	-17.41	-20.33	L2
0.5940	26.78	11.67	9.87	36.65	21.54	56.00	46.00	-19.35	-24.46	L2
14.8260	22.76	15.64	10.57	33.33	26.21	60.00	50.00	-26.67	-23.79	L2

Remark:

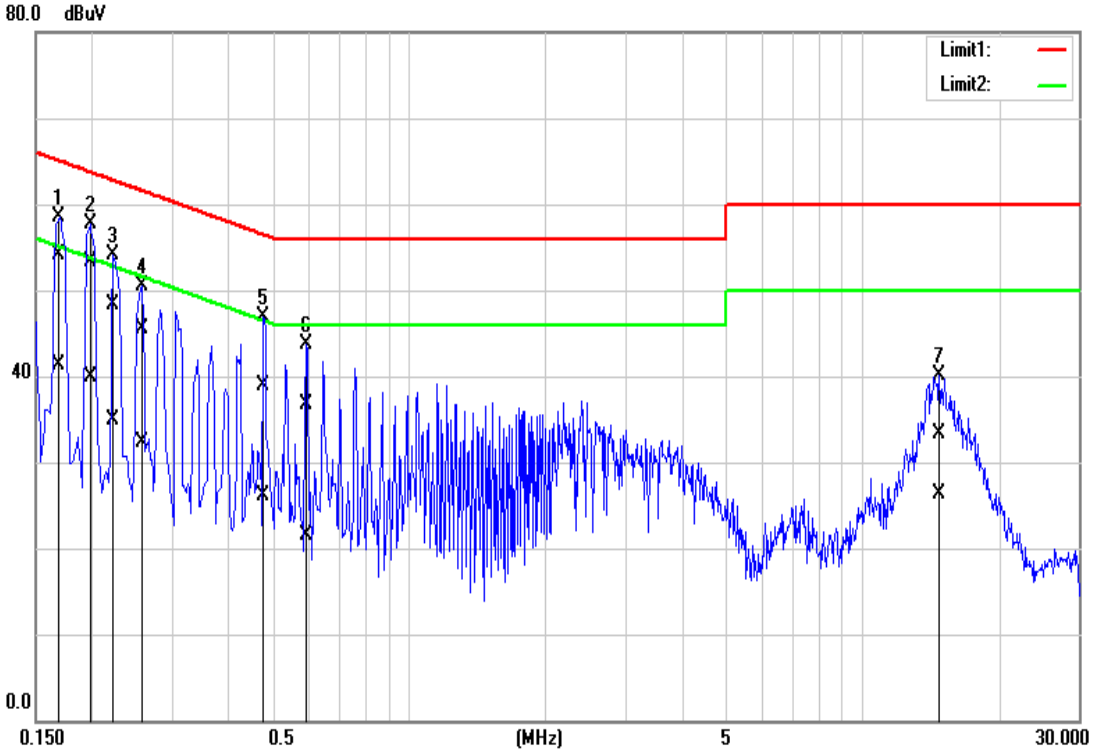
1. *Measuring frequencies from 0.15 MHz to 30MHz.*
2. *The emissions measured in frequency range from 0.15 MHz to 30MHz were made with an instrument using Quasi-peak detector and average detector.*
3. *The IF bandwidth of SPA between 0.15MHz to 30MHz was 10kHz; the IF bandwidth of Test Receiver between 0.15MHz to 30MHz was 9kHz;*
4. *L1 = Line One (Live Line) / L2 = Line Two (Neutral Line)*

Test Plots

Conducted emissions (Line 1)



Conducted emissions (Line 2)

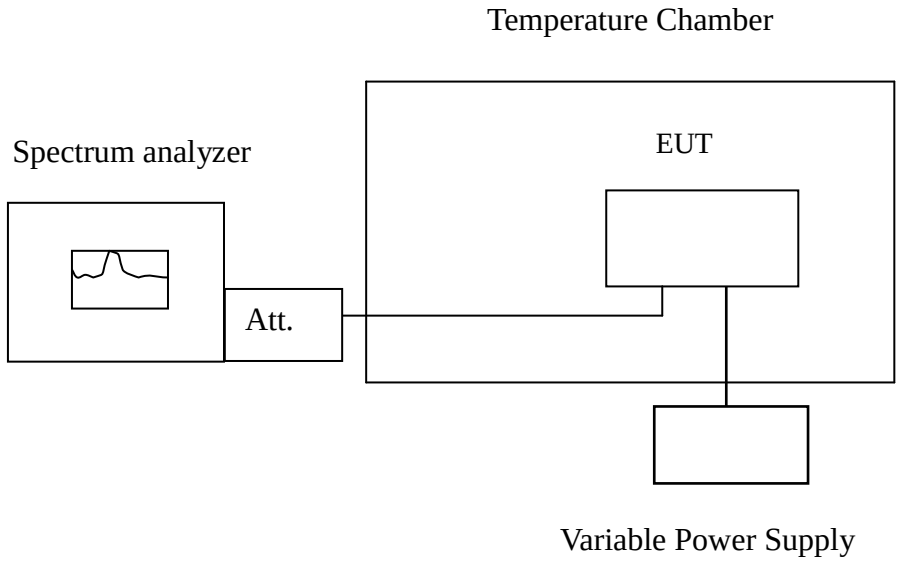


7.8 FREQUENCY STABILITY

LIMIT

According to §15.407(g) & RSS-247, manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the operational description.

Test Configuration



Remark: *Measurement setup for testing on Antenna connector*

TEST PROCEDURE

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to –20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

TEST RESULTS

No non-compliance noted.

Operating Frequency: 5180 MHz				
Environment Temperature (^{o}C)	**Voltage (V)**	**Measured Frequency (MHz)**	**Limit (20ppm)**	**Test Result**
50	120	5180.00997	1.9247	Pass
40	120	5180.01250	2.4131	Pass
30	120	5180.03180	6.1390	Pass
20	120	5180.03470	6.6988	Pass
10	120	5180.03996	7.7143	Pass
0	120	5180.03040	5.8687	Pass
-10	120	5180.02114	4.0811	Pass
-20	120	5180.00318	0.6139	Pass

Operating Frequency: 5180 MHz				
Environment Temperature (^{o}C)	**Voltage (V)**	**Measured Frequency (MHz)**	**Limit (20ppm)**	**Test Result**
20	108	5180.02317	4.4730	Pass
	120	5180.03470	6.6988	Pass
	132	5180.04011	7.7432	Pass

7.9 DYNAMIC FREQUENCY SELECTION

TEST PROCEDURE

According to “KDB 905462 D02 v01r 02” and “KDB 905462 D03 v01r01”

LIMIT

According to §15.407 (h) and FCC 06-96 appendix “compliance measurement procedures for unlicensed-national information infrastructure devices operating in the 5250-5350 MHz and 5470-5725 MHz bands incorporating dynamic frequency selection”.

***Remark**: IC RSS-247 is closely harmonized with FCC Part 15 DFS rules.*

Table 1: Applicability of DFS requirements prior to use of a channel

Requirement	Operational Mode		
	Master	Client (without radar detection)	Client(with radar detection)
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Table 3: Interference Threshold values, Master or Client incorporating In-Service

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.
Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.
Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

Table 4: DFS Response requirement values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.
Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.
Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

Table 5 – Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	60%	30
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	$\text{Roundup}\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot 10^6}{\text{PRI}_{\mu\text{sec}}}\right)\right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

Table 6 – Long Pulse Radar Test Signal

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

Table 7 – Frequency Hopping Radar Test Signal

Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

DESCRIPTION OF EUT

Overview Of EUT With Respect To §15.407 (H) Requirements

The firmware installed in the EUT during testing was:

Firmware Rev: 3.18.22
The EUT operates over the 5250-5350 MHz range as a Client Device that does not have radar detection capability.

The EUT uses one transmitter connected to two 50-ohm coaxial antenna ports via a diversity switch. Only one antenna port is connected to the test system since the EUT has one antenna only.

The Slave device associated with the EUT during these tests does not have radar detection capability.

WLAN traffic is generated by streaming the video file TestFile.mp2 “6 ½ Magic Hours” from the Master to the Slave in full motion video mode using the media player with the V2.61 Codec package.

The EUT utilizes the 802.11a architecture, with a nominal channel bandwidth of 20 MHz.

The rated output power of the Master unit is < 23dBm (EIRP). Therefore the required interference threshold level is -62 dBm. After correction for antenna gain and procedural adjustments, the required conducted threshold at the antenna port is –62 + 5 = -57dBm.

The calibrated conducted DFS Detection Threshold level is set to -57 dBm. The tested level is lower than the required level hence it provides margin to the limit.

Manufacturer’s Statement Regarding Uniform Channel Spreading

The end product implements an automatic channel selection feature at startup such that operation commences on channels distributed across the entire set of allowed 5GHz channels. This feature will ensure uniform spreading is achieved while avoiding non-allowed channels due to prior radar events.

TEST AND MEASUREMENT SYSTEM

System Overview

The measurement system is based on a conducted test method.

The short pulse and long pulse signal generating system utilizes the NTIA software. The Vector Signal Generator has been validated by the NTIA. The hopping signal generating system utilizes the CCS simulated hopping method and system, which has been validated by the DoD, FCC and NTIA. The software selects waveform parameters from within the bounds of the signal type on a random basis using uniform distribution.

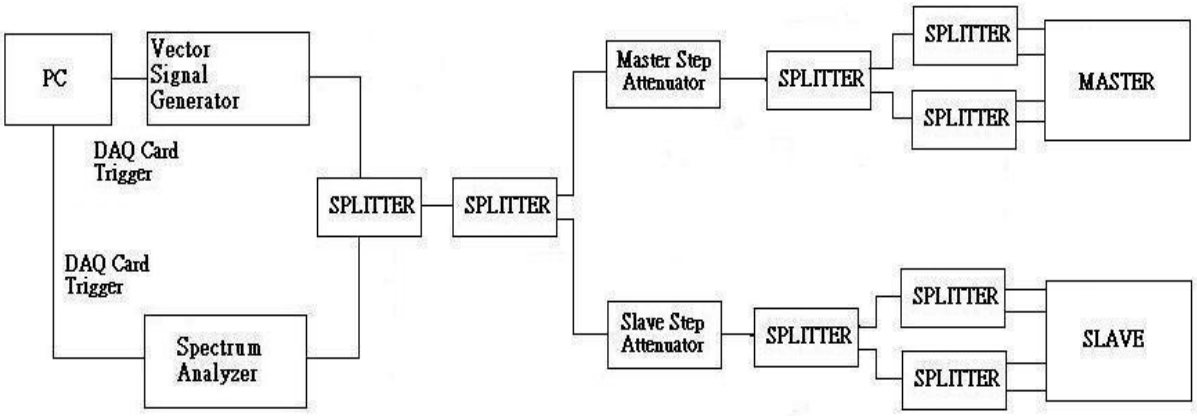
The short pulse types 2, 3 and 4, and the long pulse type 5 parameters are randomized at run-time.

The hopping type 6 pulse parameters are fixed while the hopping sequence is based on the August 2005 NTIA Hopping Frequency List. The initial starting point randomized at run-time and each subsequent starting point is incremented by 475. Each frequency in the 100-length segment is compared to the boundaries of the EUT Detection Bandwidth and the software creates a hopping burst pattern in accordance with Section 7.4.1.3 Method #2 Simulated Frequency Hopping Radar Waveform Generating Subsystem of FCC 06-96 APPENDIX. The frequency of the signal generator is incremented in 1 MHz steps from FL to FH for each successive trial. This incremental sequence is repeated as required to generate a minimum of 30 total trials and to maintain a uniform frequency distribution over the entire Detection Bandwidth.

The signal monitoring equipment consists of a spectrum analyzer set to display 8001 bins on the horizontal axis. The time-domain resolution is 2 msec / bin with a 16 second sweep time, meeting the 10 second short pulse reporting criteria. The aggregate ON time is calculated by multiplying the number of bins above a threshold during a particular observation period by the dwell time per bin, with the analyzer set to peak detection and max hold. The time-domain resolution is 3 msec / bin with a 24 second sweep time, meeting the 22 second long pulse reporting criteria and allowing a minimum of 10 seconds after the end of the long pulse waveform.

Should multiple RF ports be utilized for the Master and/or Slave devices (for example, for diversity or MIMO implementations), 50 ohm termination would be removed from the splitter so that connection can be established between splitter and the Master and/or Slave devices.

Conducted Method System Block Diagram



System Calibration

Connect the spectrum analyzer to the test system in place of the master device. Set the signal generator to CW mode. Adjust the amplitude of the signal generator to yield a measured level of –62 dBm on the spectrum analyzer.

Without changing any of the instrument settings, reconnect the spectrum analyzer to the Common port of the Spectrum Analyzer Combiner/Divider and connect a 50 ohm load to the Master Device port of the test system.

Measure the amplitude and calculate the difference from –62 dBm. Adjust the Reference Level Offset of the spectrum analyzer to this difference. Confirm that the signal is displayed at –62 dBm. Readjust the RBW and VBW to 3 MHz, set the span to 10 MHz, and confirm that the signal is still displayed at –62 dBm.

The spectrum analyzer displays the level of the signal generator as received at the antenna ports of the Master Device. The interference detection threshold may be varied from the calibrated value of –62 dBm and the spectrum analyzer will still indicate the level as received by the Master Device.

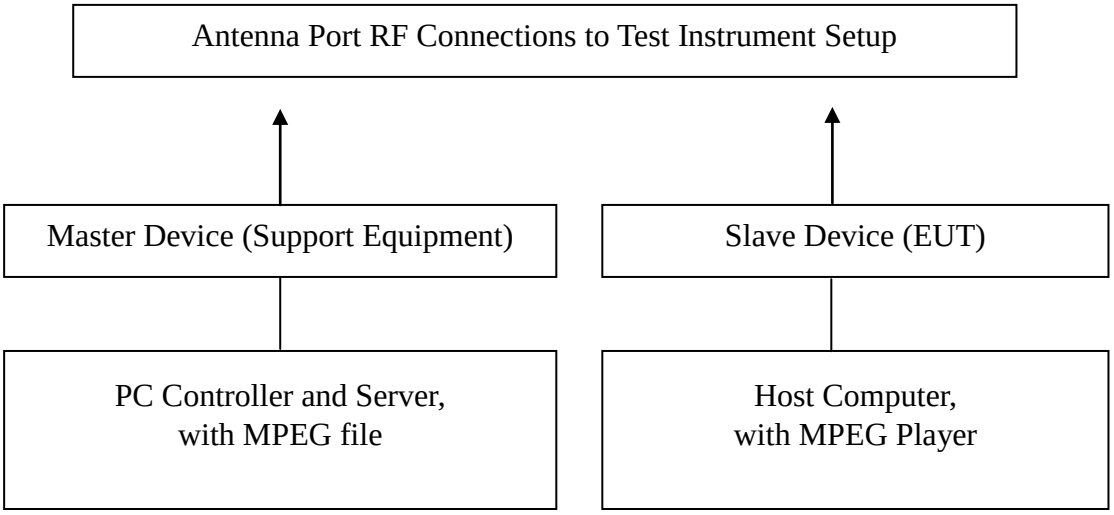
Set the signal generator to produce a radar waveform, trigger a burst manually and measure the level on the spectrum analyzer. Readjust the amplitude of the signal generator as required so that the peak level of the waveform is at a displayed level equal to the required or desired interference detection threshold. Separate signal generator amplitude settings are determined as required for each radar type.

Adjustment Of Displayed Traffic Level

Establish a link between the Master and Slave, adjusting the Link Step Attenuator as needed to provide a suitable received level at the Master and Slave devices. Stream the video test file to generate WLAN traffic. Confirm that the WLAN traffic level, as displayed on the spectrum analyzer, is at lower amplitude than the radar detection threshold. Confirm that the displayed traffic is from the Master Device. For Master Device testing confirm that the displayed traffic does not include Slave Device traffic. For Slave Device testing confirm that the displayed traffic does not include Master Device traffic.

If a different setting of the Master Step Attenuator is required to meet the above conditions, perform a new System Calibration for the new Master Step Attenuator setting.

Test Setup



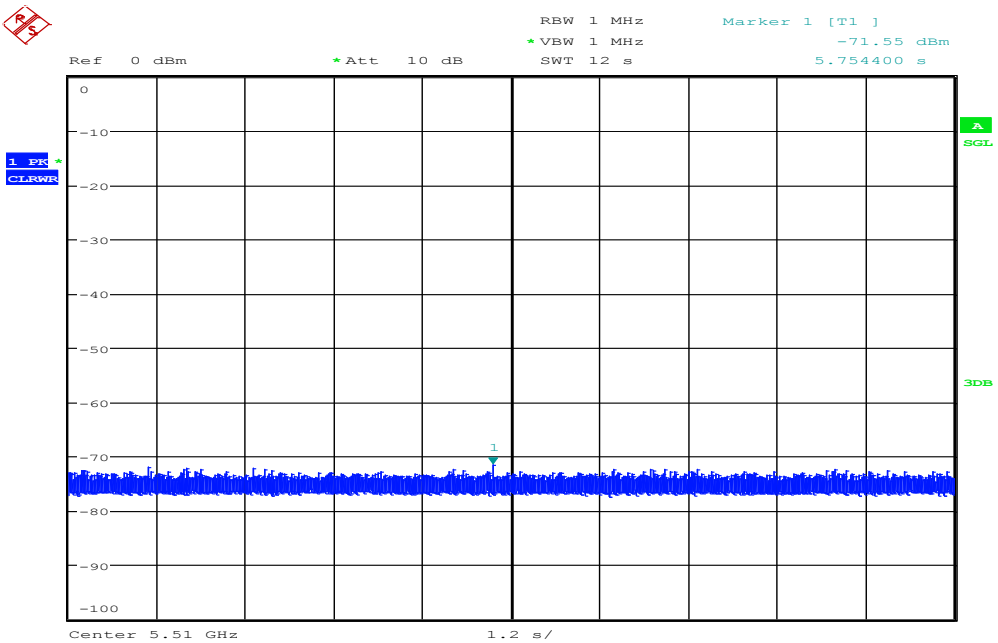
TEST RESULTS

No non-compliance noted

PLOT OF WLAN TRAFFIC FROM SLAVE

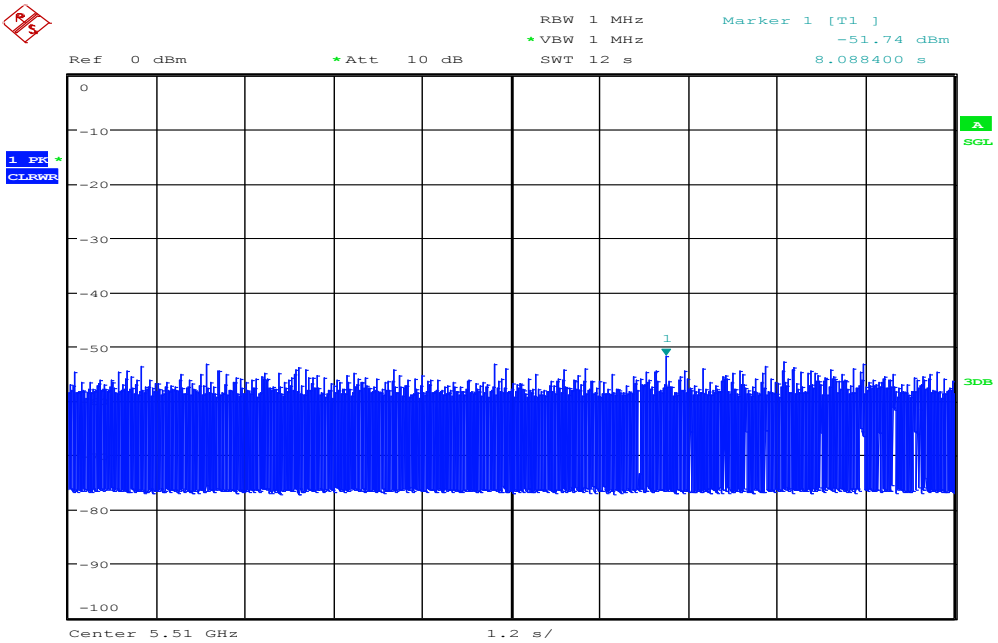
IEEE 802.11n HT 40 MHz mode / 5510MHz

Noise Floor



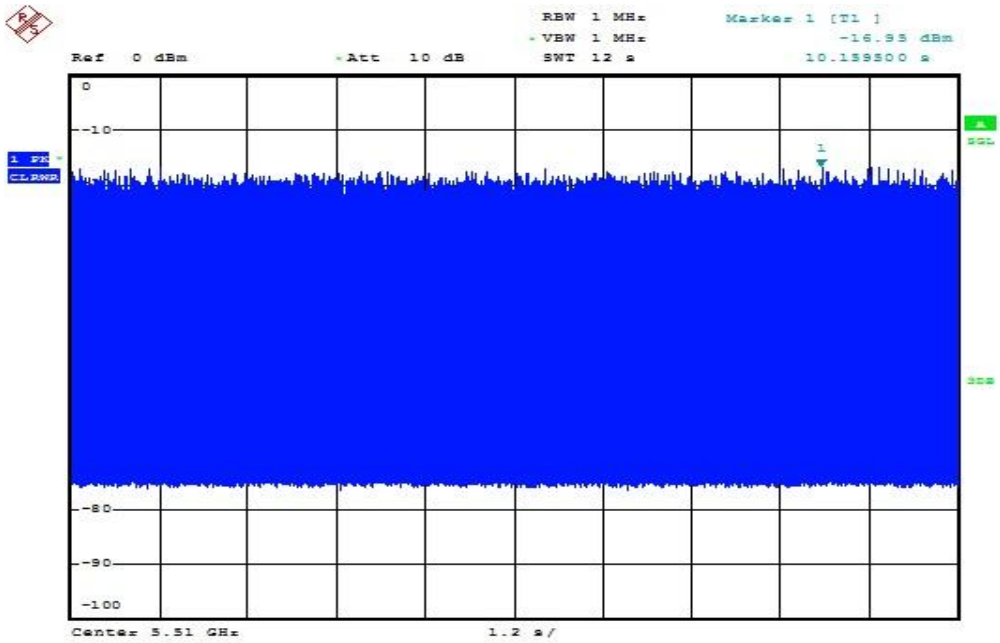
Date: 30.MAY.2016 19:42:54

Master Level



Date: 30.MAY.2016 19:14:37

Slave Level



Date: 30.MAY.2016 19:14:37

TEST CHANNEL AND METHOD

All tests were performed at a channel center frequency of 5510 MHz utilizing a conducted test method.

CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME

GENERAL REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time =

(Number of analyzer bins showing transmission) * (dwell time per bin)

The observation period over which the aggregate time is calculated

Begins at (Reference Marker + 200 msec) and

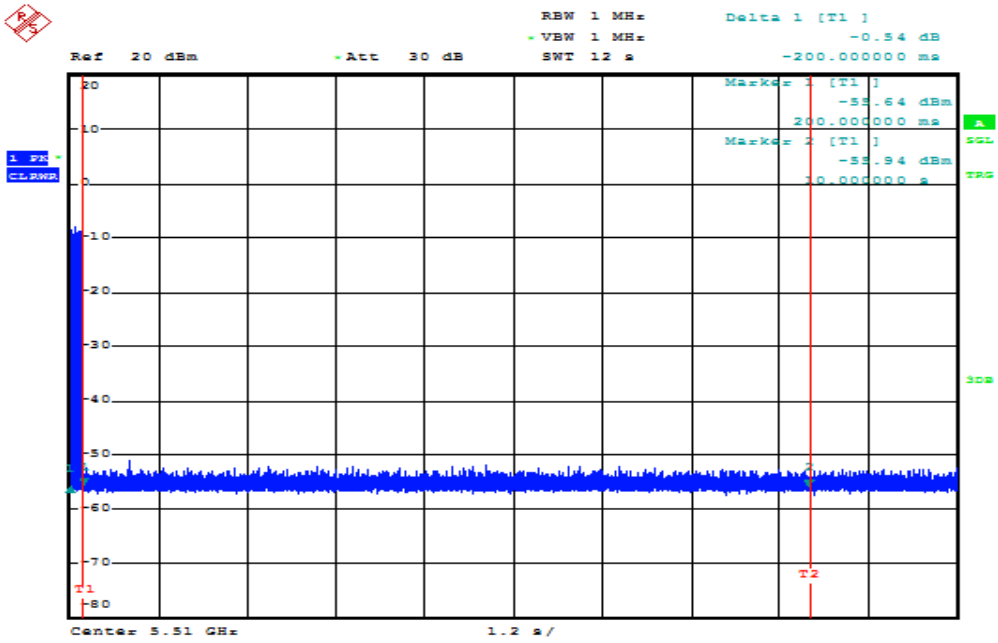
Ends no earlier than (Reference Marker + 10 sec).

IEEE 802.11n HT 40 MHz mode / 5510MHz

Type 1 Channel Move Time Results

No non-compliance noted.

Channel Move Time (s)	Limit (s)
-0.2	10

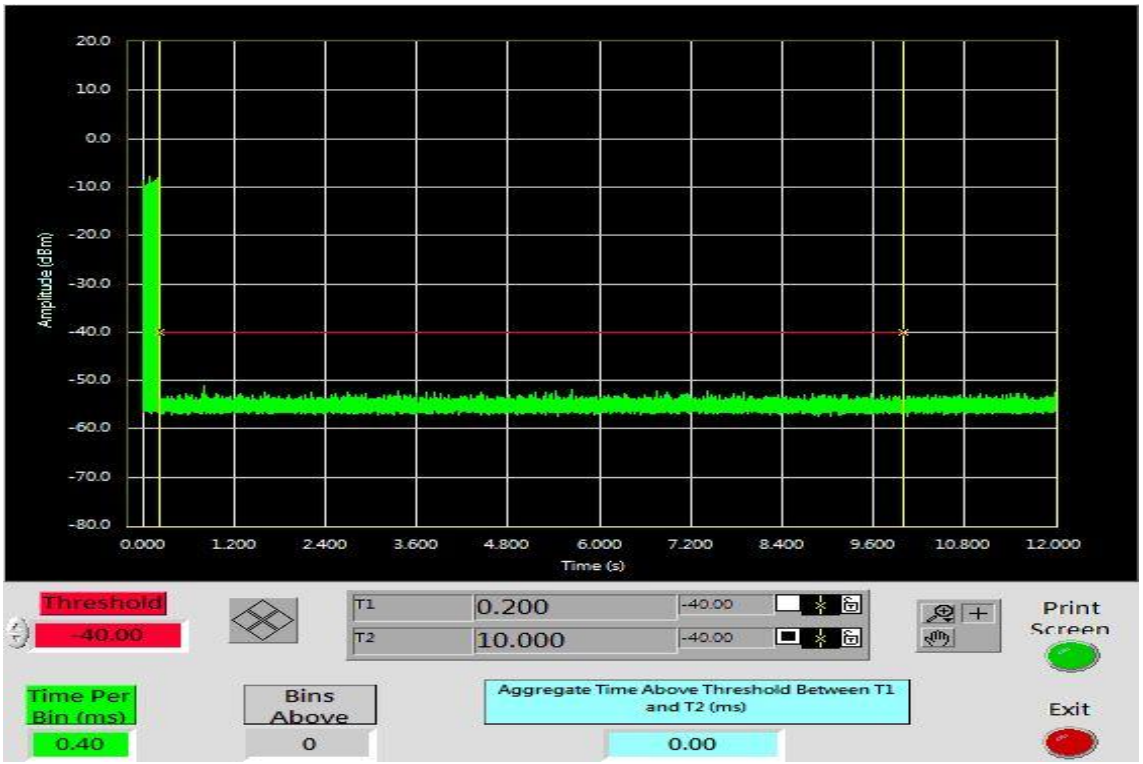


Date: 30.MAY.2016 20:52:24

Type 1 Channel Closing Transmission Time Results

No non-compliance noted.

Aggregate Transmission Time (ms)	Limit (ms)	Margin (ms)
0	60	-60

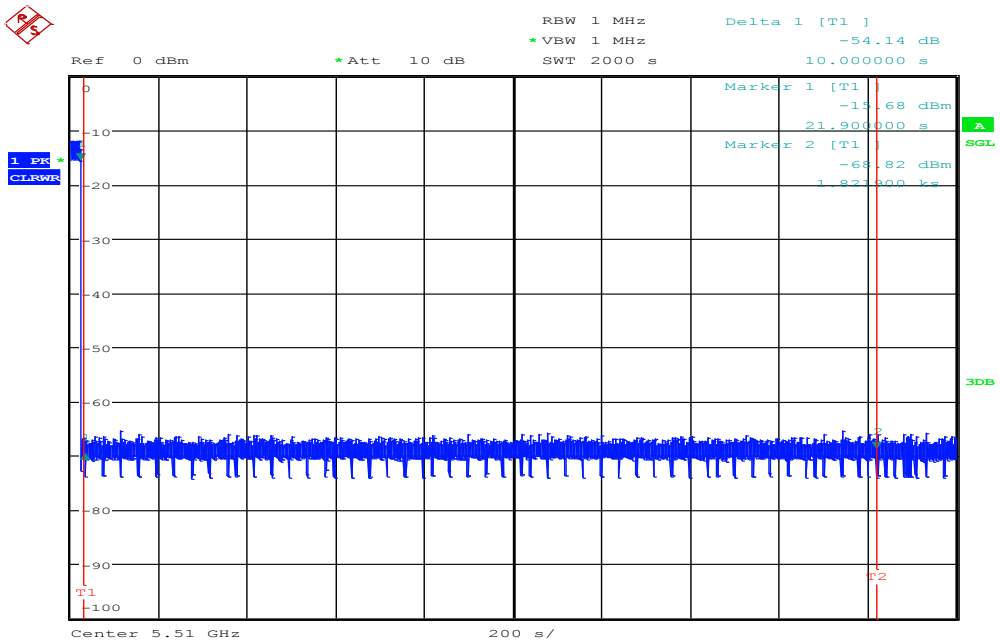


NON-OCCUPANCY PERIOD

IEEE 802.11n HT 40 MHz mode / 5510MHz

Type 1 Non-Occupancy Period Test Results

No non-compliance noted.
No EUT transmissions were observed on the test channel during the 30 minute observation time.



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