6.6 PEAK POWER SPECTAL DENSITY

6.6.1 LIMIT

According to §15.407(a) & FCC R&O FCC 14-30

(1) (i) For an outdoor access point operating in the band 5.15 – 5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(2) (ii) For an indoor access point operating in the band 5.15 – 5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30dBm in any 500 kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

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

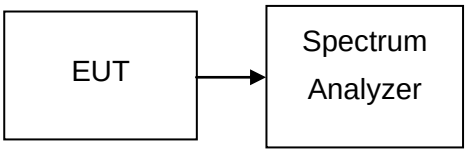
6.6.2 MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	E4446A	US44300399	02/28/2015	02/27/2016

Remark: *Each piece of equipment is scheduled for calibration once a year.*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

6.6.3 TEST CONFIGURATION



6.6.4 TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
   Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. For devices operating in the bands 5.15-5.25 GHz,Set the spectrum analyzer as RBW = 1MHz, VBW = 3MHz, Span = 30MHz, Sweep=1ms
3. For devices operating in the bands 5.725-5.85 GHz,Set the spectrum analyzer as RBW= 1MHz, VBW = 3MHz, Span = 30MHz, Sweep=1ms
4. Record the max. reading.
5. Repeat the above procedure until the measurements for all frequencies are completed

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

6.6.5TEST RESULTS

Test Data

IEEE 802.11a mode / 5180 ~ 5240MHz

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margain	Result
Low	5180	-2.209	17	-19.209	PASS
Mid	5220	-2.545		-19.545	PASS
High	5240	-0.985		-17.985	PASS

IEEE 802.11a mode / 5260~ 5320MHz

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margain	Result
Low	5260	-1.263	11	-12.263	PASS
Mid	5300	-1.886		-12.886	PASS
High	5320	-2.541		-13.541	PASS

IEEE 802.11a mode / 5500 ~ 5700MHz

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margain	Result
Low	5500	-4.923	11	-15.923	PASS
Mid	5580	-3.604		-14.604	PASS
High	5700	-1.876		-12.876	PASS

IEEE 802.11a mode / 5745 ~ 5825MHz

Channel	Frequency (MHz)	PPSD (dBm)	factor	Limit (dBm)	Margain	Result
Low	5745	-3.426	-3.01	17	-23.436	PASS
Mid	5785	-3.367	-3.01		-23.377	PASS
High	5825	-4.308	-3.01		-24.318	PASS

Remark: factor =10*log10(500/RBW)

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test mode: IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margain	Result
Low	5180	-1.709	17	-18.709	PASS
Mid	5220	-4.604		-21.604	PASS
High	5240	-3.270		-20.270	PASS

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

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margain	Result
Low	5260	-2.566	11	-13.566	PASS
Mid	5300	-2.306		-13.306	PASS
High	5320	-3.784		-14.784	PASS

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

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margain	Result
Low	5500	-5.653	11	-16.653	PASS
Mid	5580	-4.754		-15.754	PASS
High	5700	-3.901		-14.901	PASS

Test mode: IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

Channel	Frequency (MHz)	PPSD (dBm)	factor	Limit (dBm)	Margain	Result
Low	5745	-4.483	-3.01	17	-24.493	PASS
Mid	5785	-4.940	-3.01		-24.950	PASS
High	5825	-4.014	-3.01		-24.024	PASS

Remark: factor =10*log10(500/RBW)

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margain	Result
Low	5190	-3.903	17	-20.903	PASS
High	5230	-5.764		-22.764	PASS

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

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margain	Result
Low	5270	-6.062	11	-17.062	PASS
High	5310	-6.023		-17.023	PASS

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

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margain	Result
Low	5510	-8.840	11	-19.840	PASS
Mid	5550	-7.959		-18.959	PASS
High	5670	-9.015		-20.015	PASS

IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

Channel	Frequency (MHz)	PPSD (dBm)	factor	Limit (dBm)	Margain	Result
Low	5755	-7.736	-3.01	17	-27.746	PASS
High	5795	-7.240	-3.01		-27.250	PASS

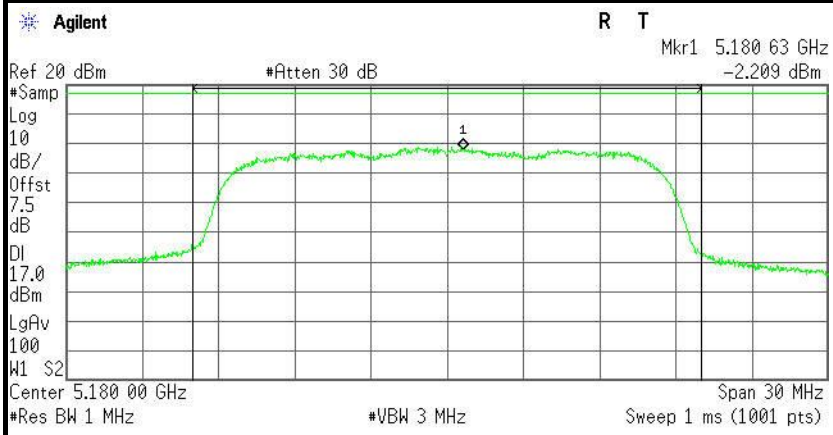
Remark: factor =10*log10(500/RBW)

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Plot

IEEE 802.11a mode / 5180 ~ 5240MHz

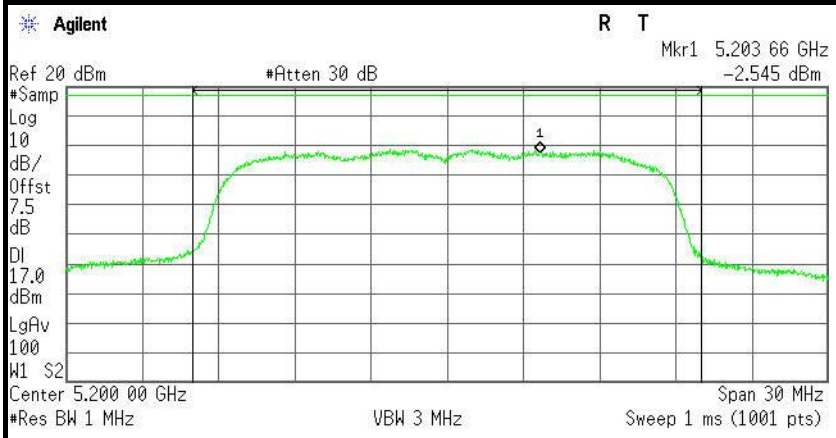
PPSD (CH Low)



Channel Power 12.27 dBm /20.0000 MHz

Power Spectral Density -60.74 dBm/Hz

PPSD (CH Mid)

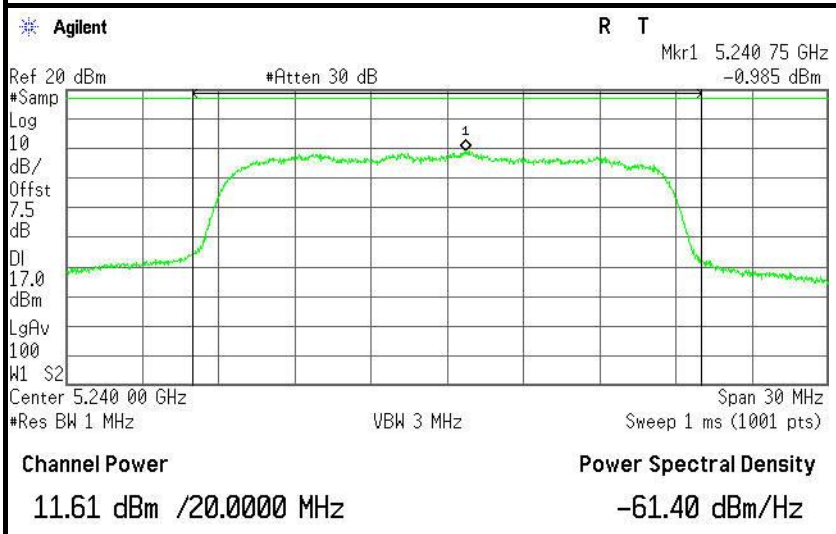


Channel Power 12.16 dBm /20.0000 MHz

Power Spectral Density -60.85 dBm/Hz

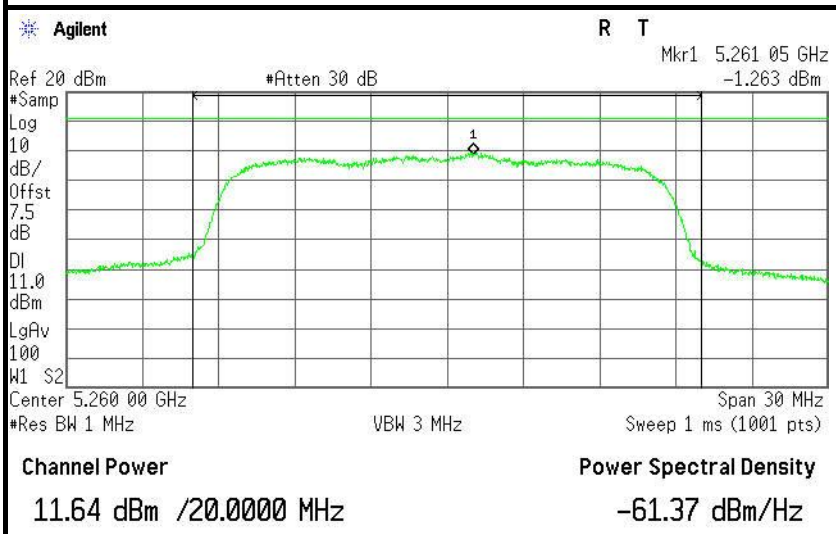
This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

PPSD (CH High)



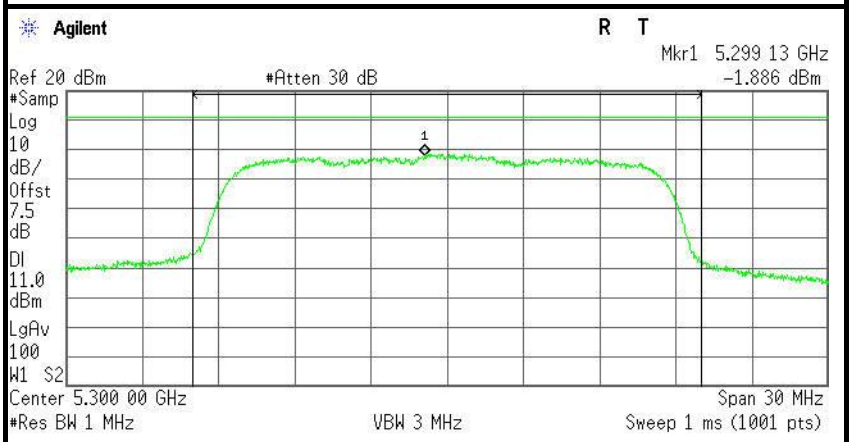
IEEE 802.11a mode / 5260~ 5320MHz

PPSD (CH Low)



This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

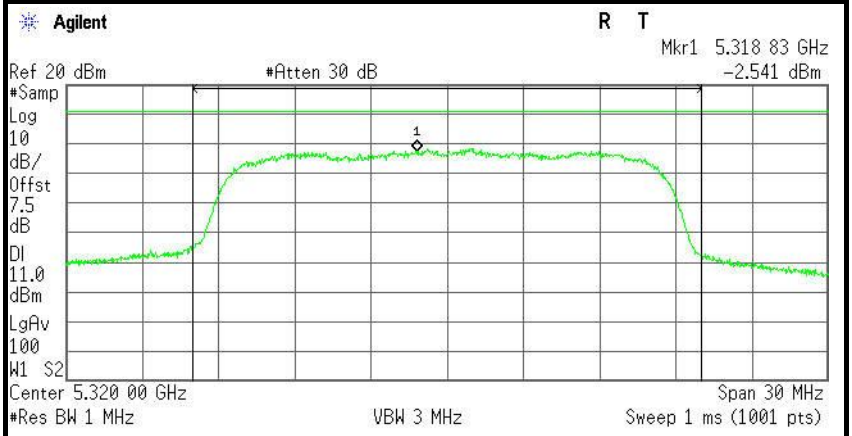
PPSD (CH Mid)



Channel Power 11.82 dBm /20.0000 MHz

Power Spectral Density -61.19 dBm/Hz

PPSD (CH High)



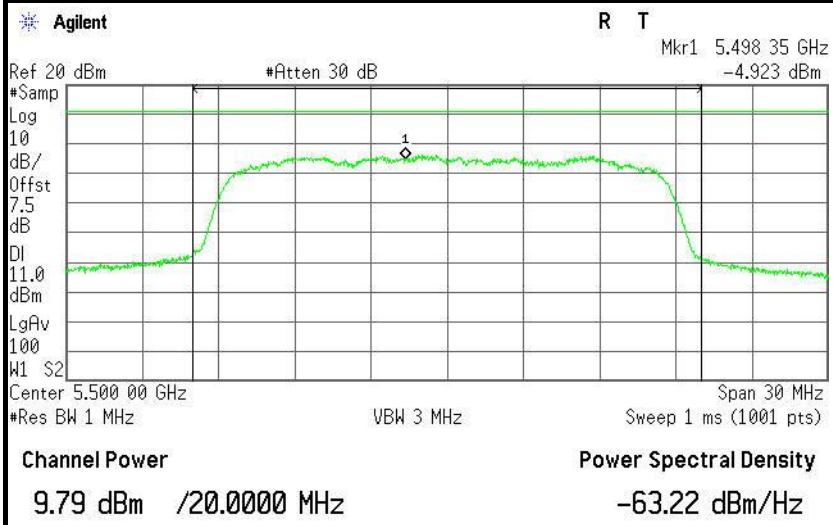
Channel Power 11.45 dBm /20.0000 MHz

Power Spectral Density -61.56 dBm/Hz

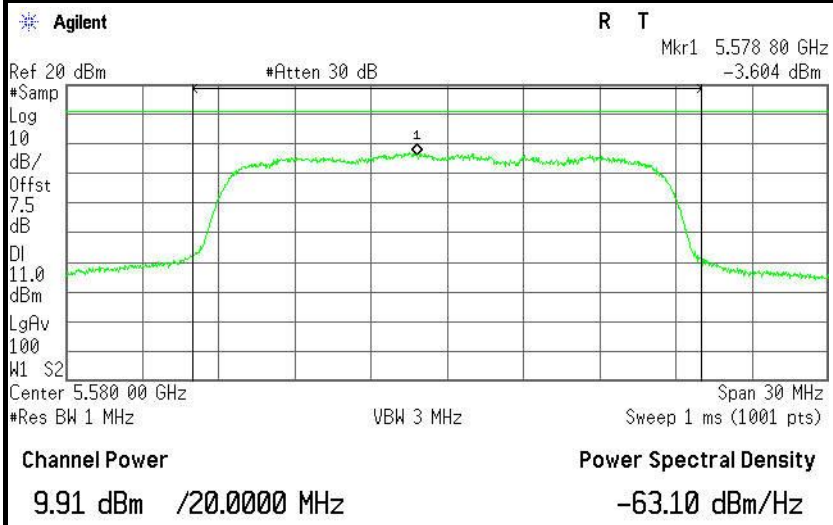
This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11a mode / 5500 ~ 5700MHz

PPSD (CH Low)

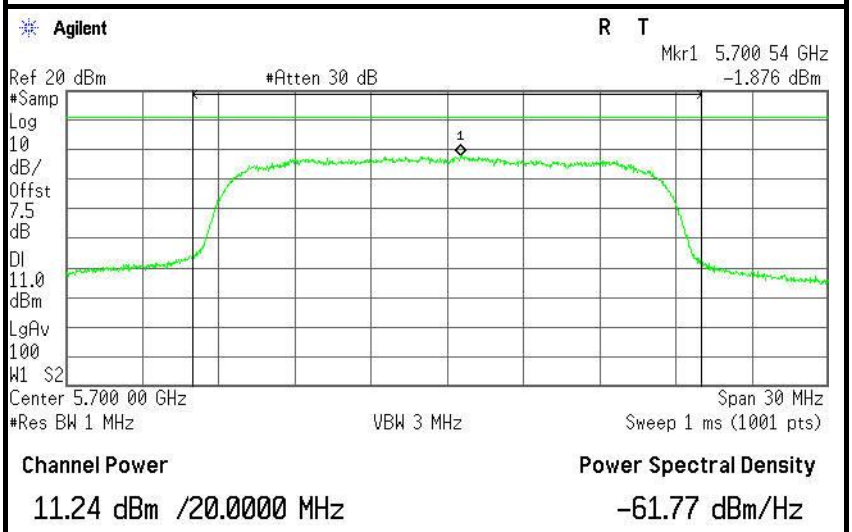


PPSD (CH Mid)



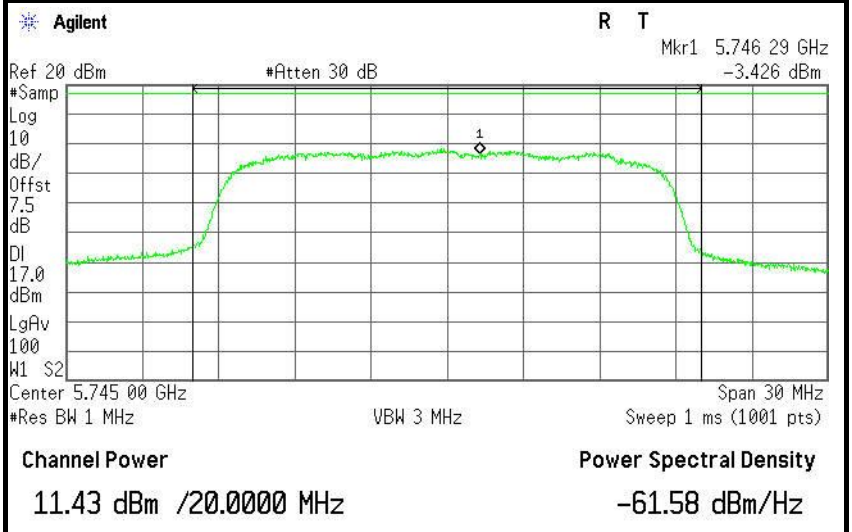
This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

PPSD (CH High)



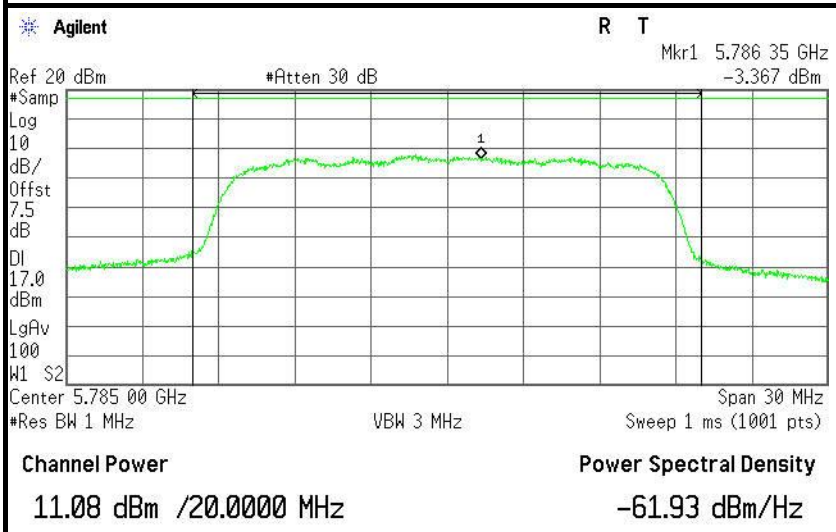
IEEE 802.11a mode / 5745 ~ 5825MHz

PPSD (CH Low)

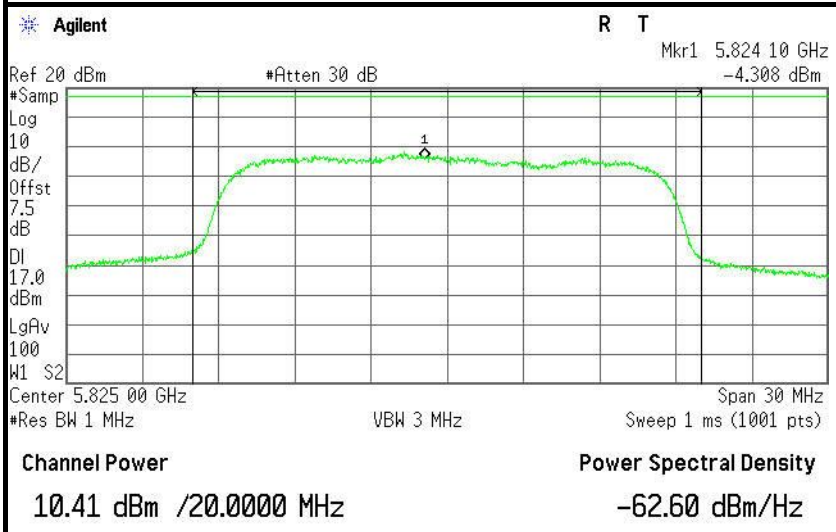


This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

PPSD (CH Mid)



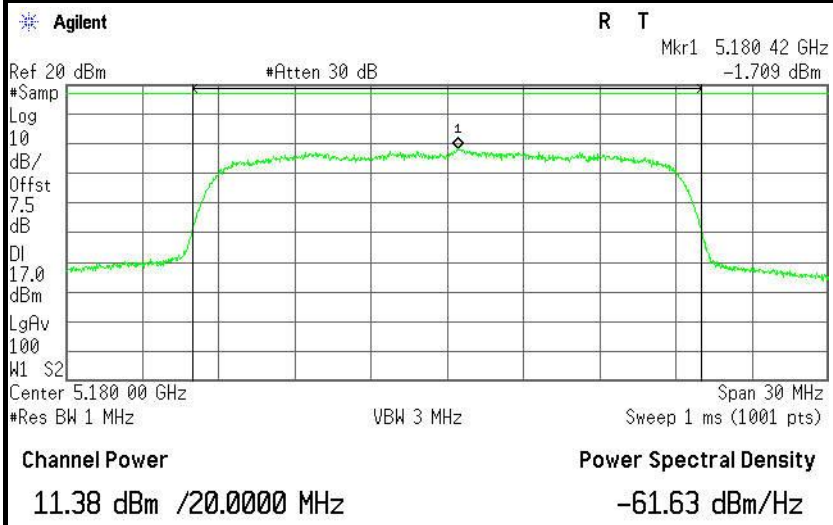
PPSD (CH High)



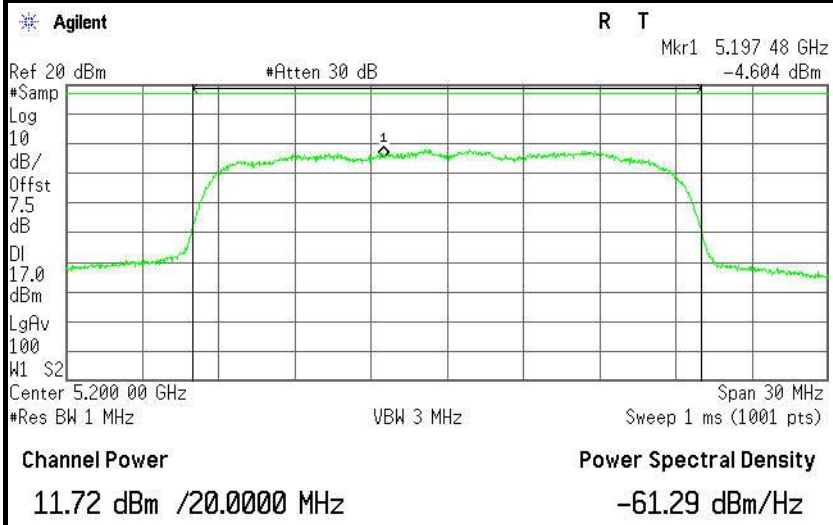
This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz

PPSD (CH Low)

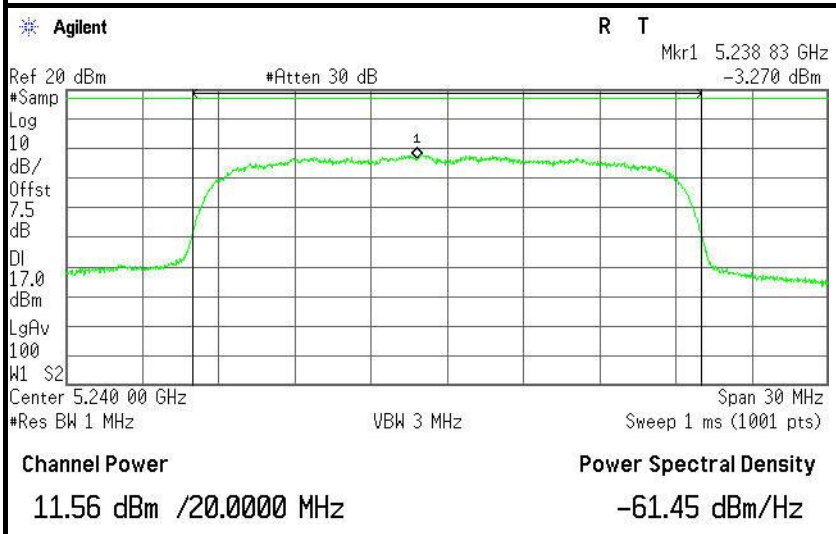


PPSD (CH Mid)



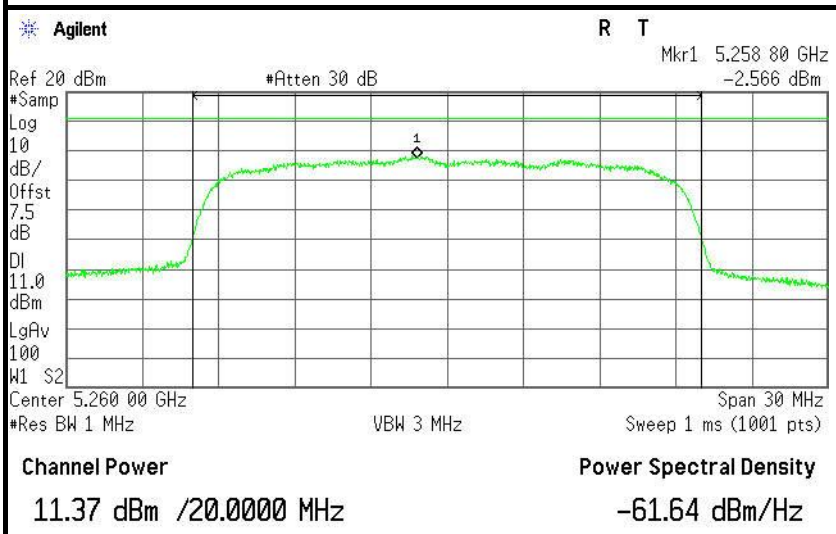
This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

PPSD (CH High)



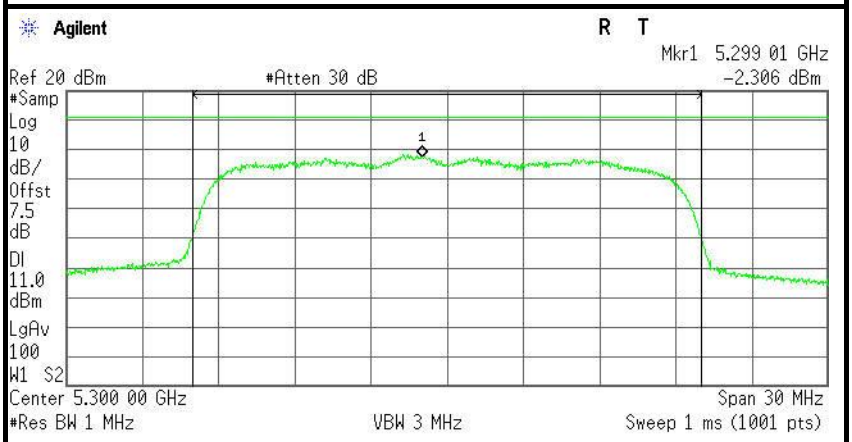
IEEE 802.11n HT 20 MHz mode / 5260~ 5320MHz

PPSD (CH Low)



This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

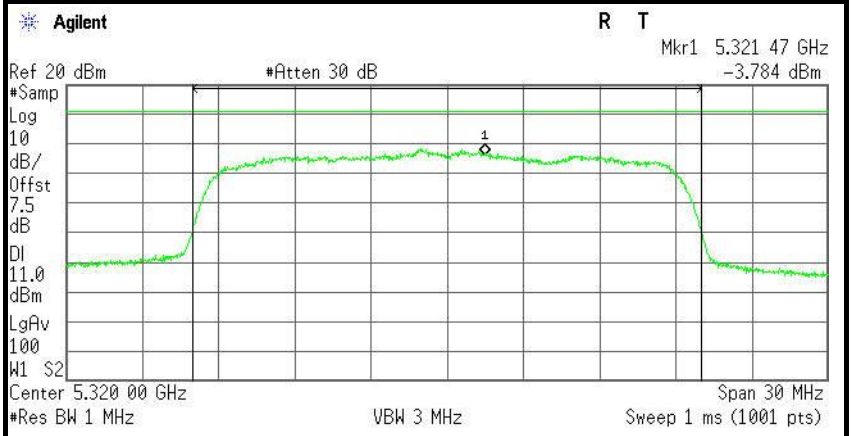
PPSD (CH Mid)



Channel Power 10.95 dBm /20.0000 MHz

Power Spectral Density -62.06 dBm/Hz

PPSD (CH High)



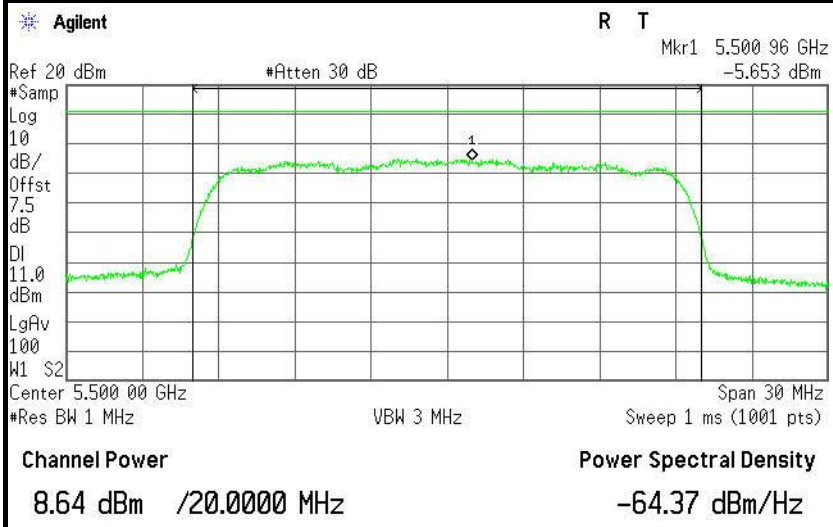
Channel Power 10.98 dBm /20.0000 MHz

Power Spectral Density -62.03 dBm/Hz

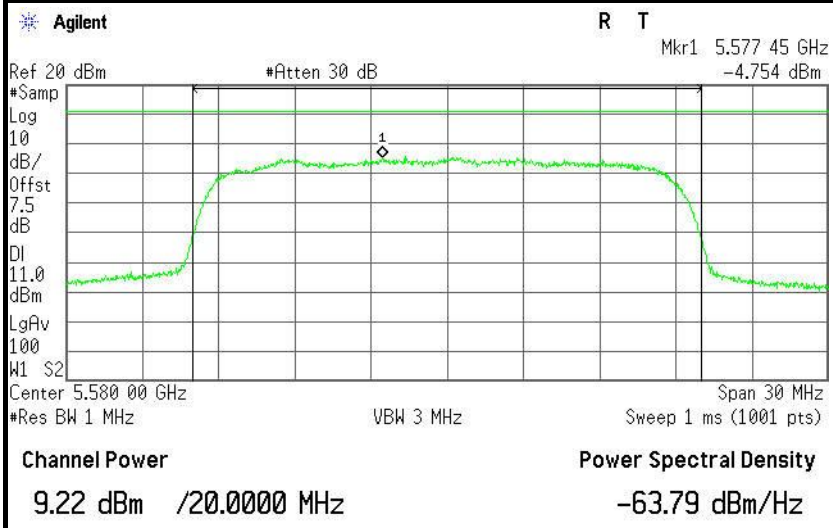
This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

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

PPSD (CH Low)

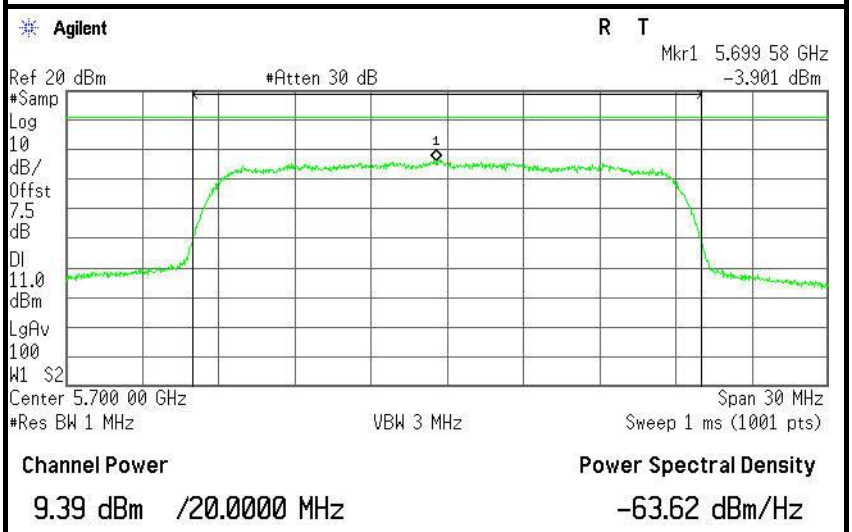


PPSD (CH Mid)



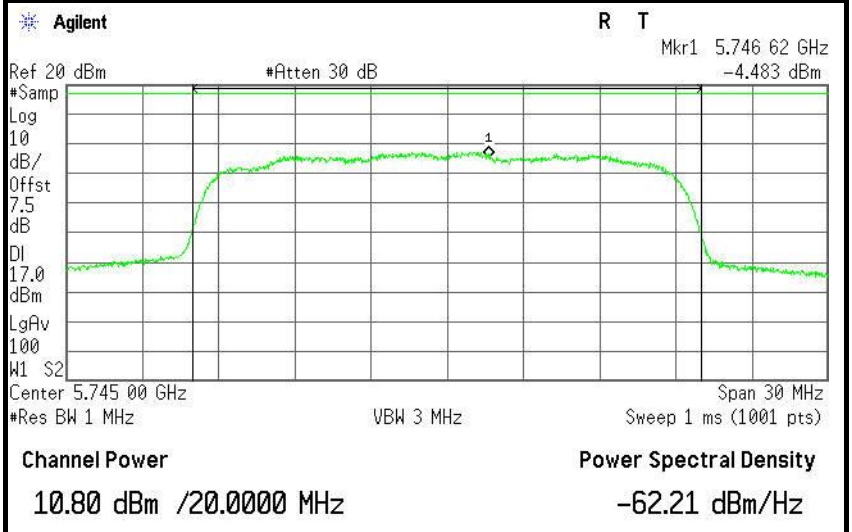
This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

PPSD (CH High)



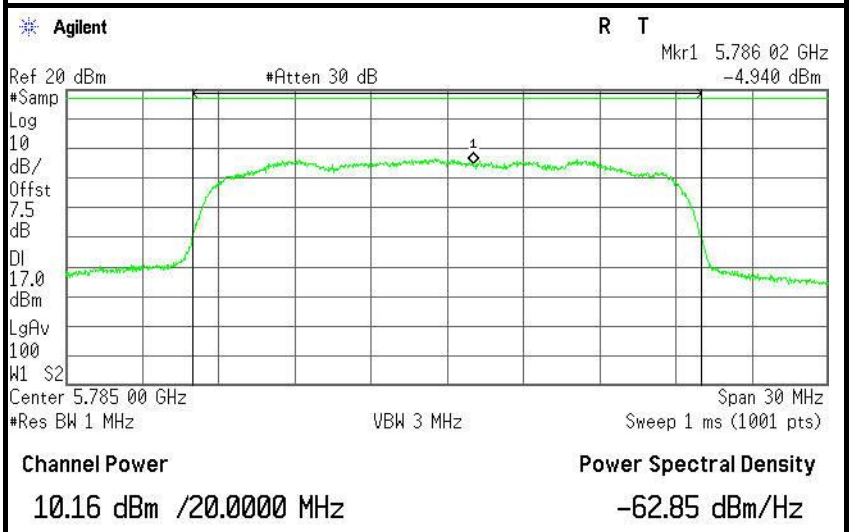
IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

PPSD (CH Low)

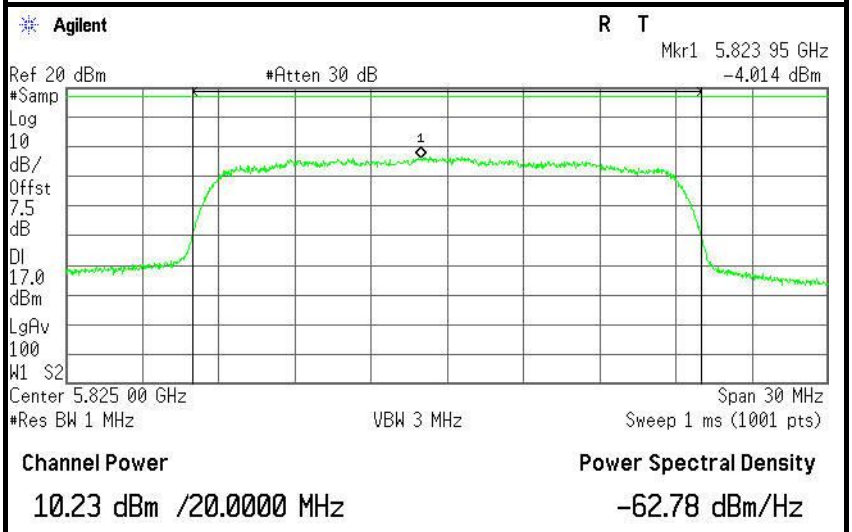


This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

PPSD (CH Mid)



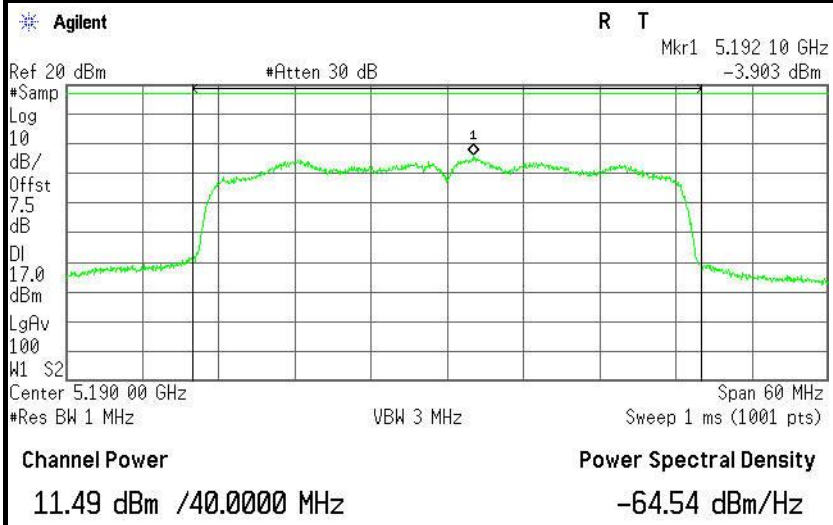
PPSD (CH High)



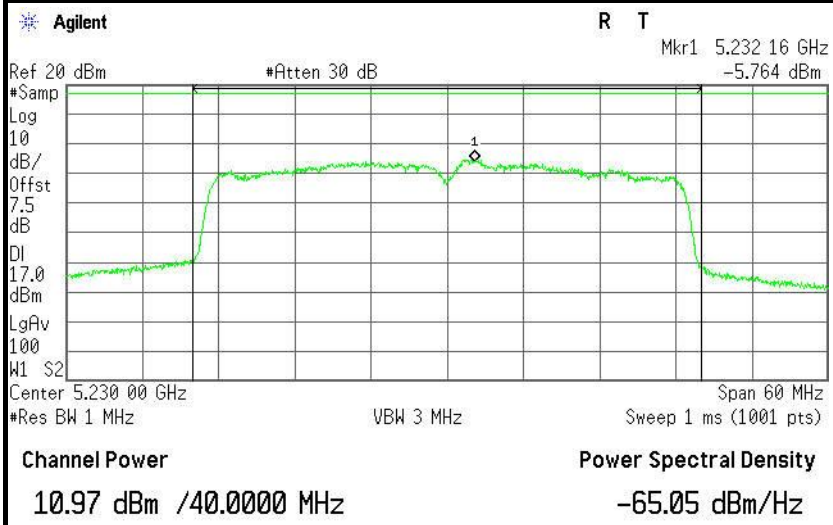
This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz

PPSD (CH Low)



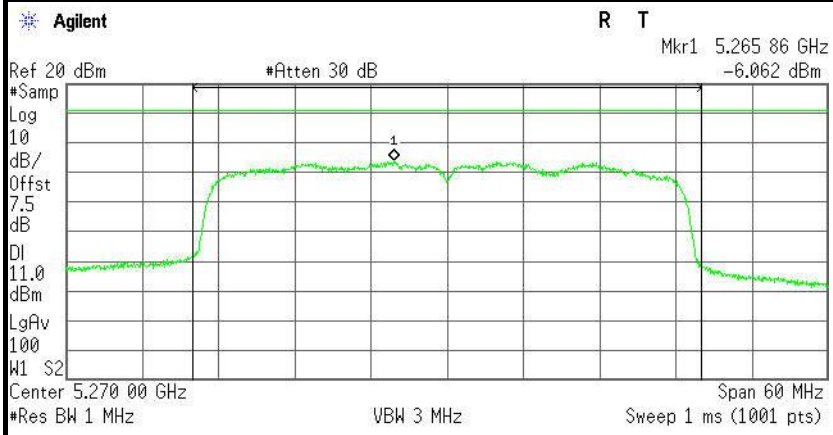
PPSD (CH High)



This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

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

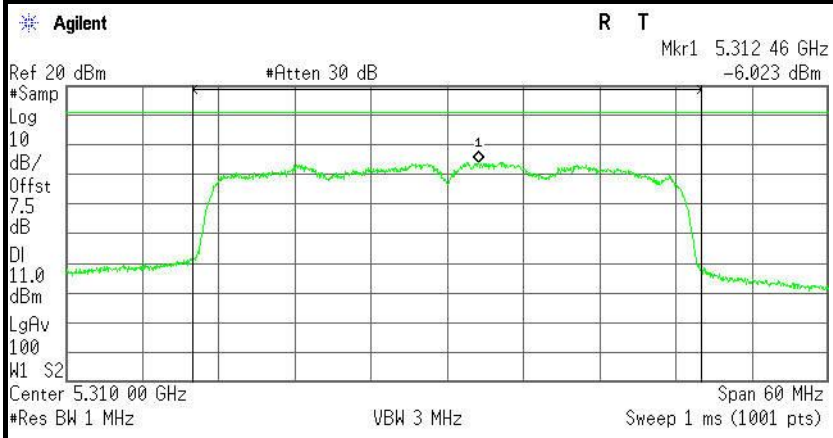
PPSD (CH Low)



Channel Power 11.14 dBm /40.0000 MHz

Power Spectral Density -64.88 dBm/Hz

PPSD (CH High)



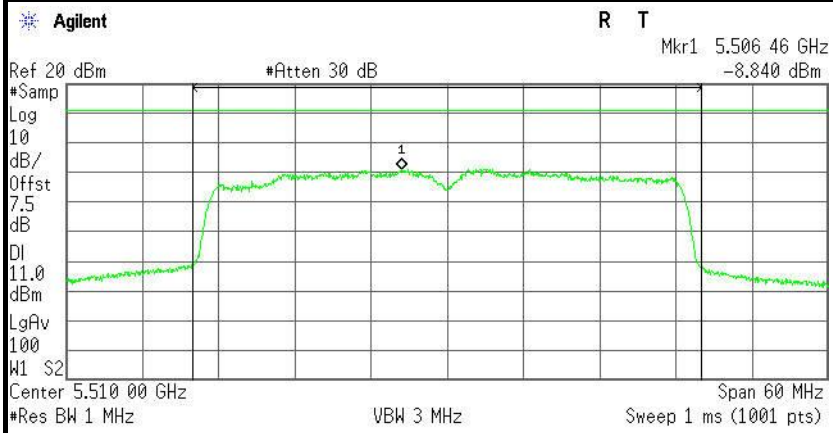
Channel Power 11.07 dBm /40.0000 MHz

Power Spectral Density -64.95 dBm/Hz

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

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

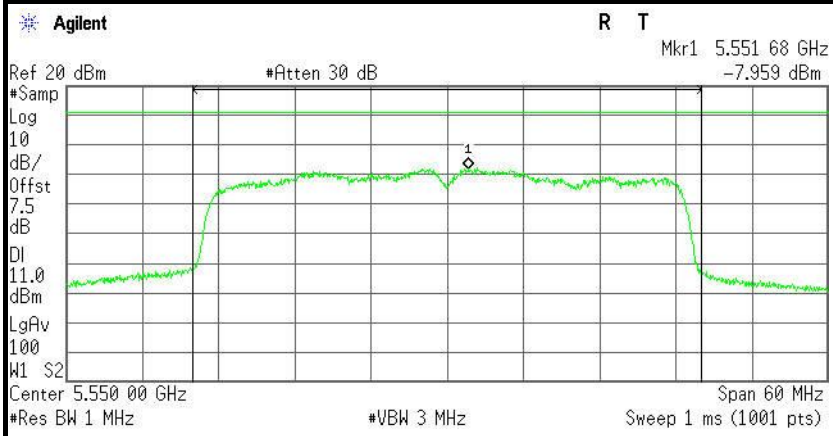
PPSD (CH Low)



Channel Power 8.62 dBm /40.0000 MHz

Power Spectral Density -67.40 dBm/Hz

PPSD (CH Mid)

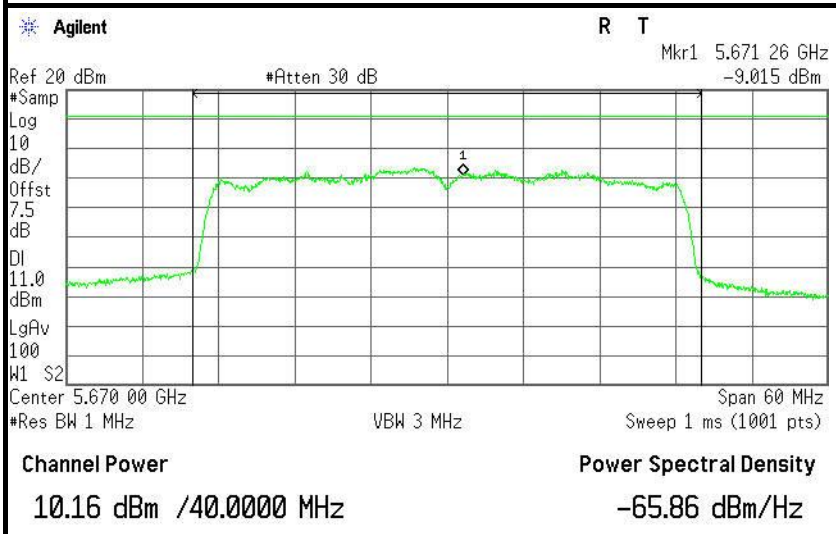


Channel Power 8.37 dBm /40.0000 MHz

Power Spectral Density -67.65 dBm/Hz

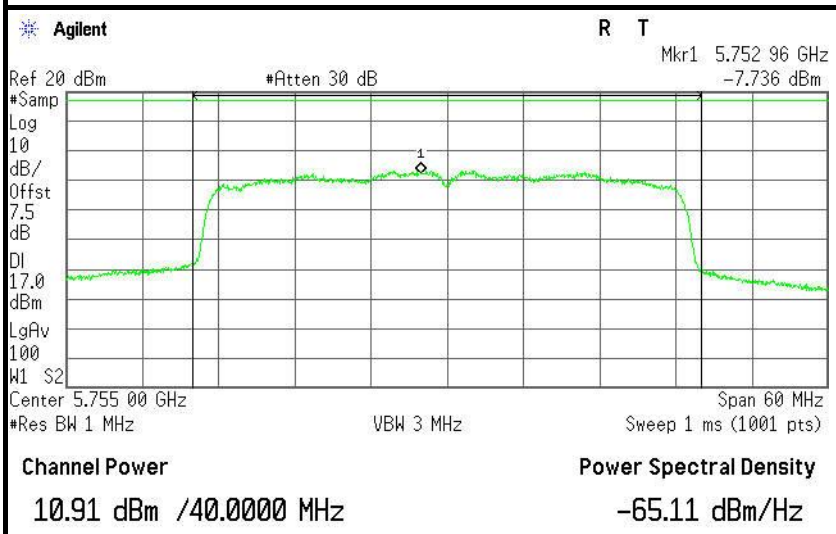
This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

PPSD (CH High)



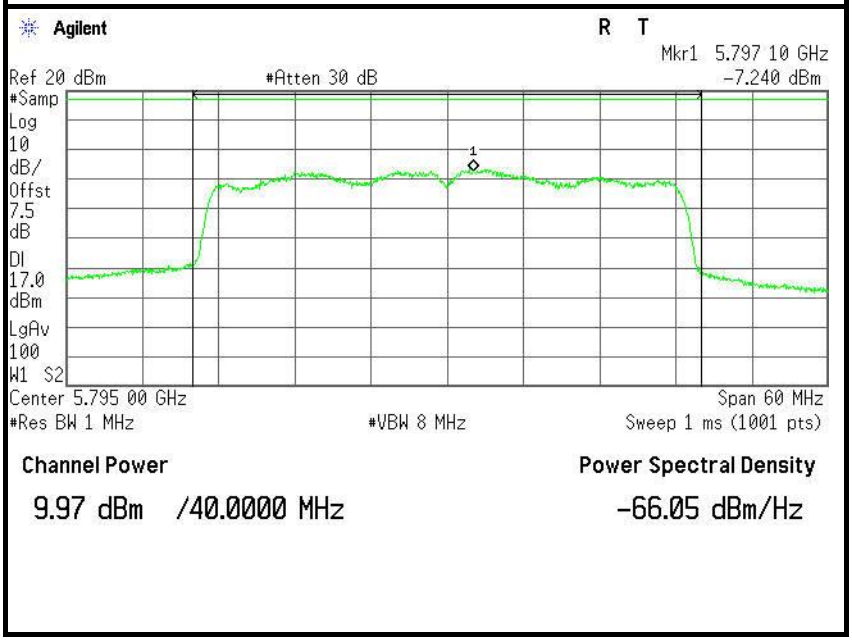
IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

PPSD (CH Low)



This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

PPSD (CH High)



This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

6.7 RADIATED UNDESIABLE EMISSION

6.7.1 LIMIT

1. According to §15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

Remark: *Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.*

2. In the emission table above, the tighter limit applies at the band edges.

Frequency (MHz)	Field Strength (μV/m at 3-meter)	Field Strength (dBμV/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

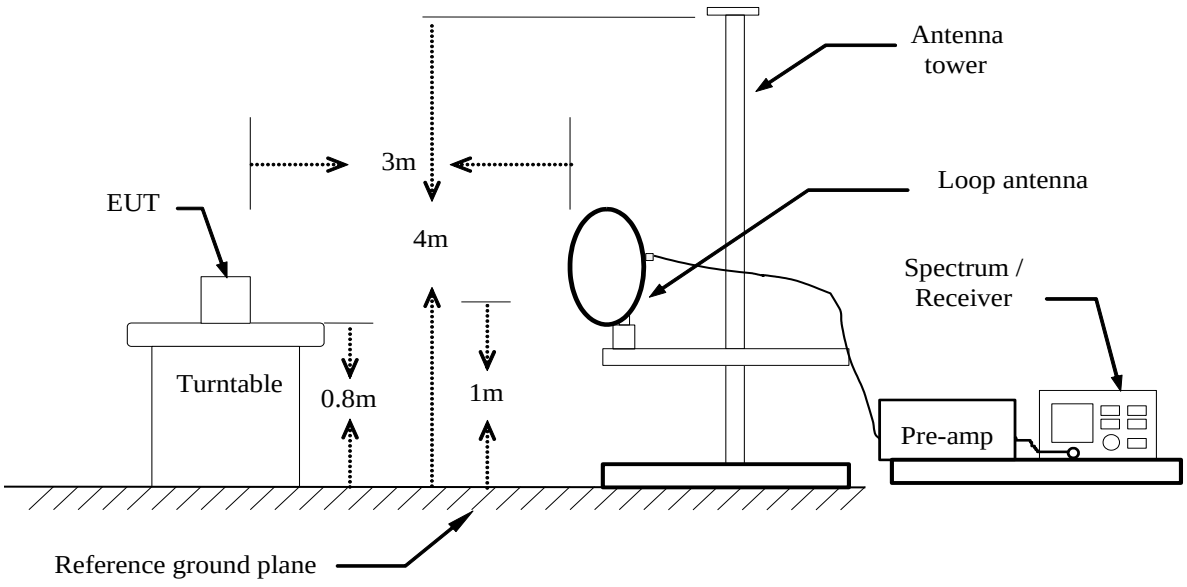
This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

6.7.2 TEST INSTRUMENTS

Radiated Emission Test Site 966(2)					
Name of Equipment	**Manufacturer**	**Model Number**	**Serial Number**	**Last Calibration**	**Due Calibration**
PSA Series Spectrum Analyzer	Agilent	E4446A	US44300399	02/28/2015	02/27/2016
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	02/28/2015	02/27/2016
Amplifier	MITEQ	AM-1604-3000	1123808	03/18/2015	03/18/2016
High Noise Amplifier	Agilent	8449B	3008A01838	02/28/2015	02/27/2016
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	02/28/2015	02/27/2016
Bilog Antenna	SCHAFFNER	CBL6143	5082	02/28/2015	02/27/2016
Horn Antenna	SCHWARZBECK	BBHA9120	D286	02/28/2015	02/27/2016
Loop Antenna	COM-POWER	AL-130	121044	09/25/2015	09/24/2016
Turn Table	N/A	N/A	N/A	N.C.R	N.C.R
Controller	Sunol Sciences	SC104V	022310-1	N.C.R	N.C.R
Controller	CT	N/A	N/A	N.C.R	N.C.R
Temp. / Humidity Meter	Anymetre	JR913	N/A	02/28/2015	02/27/2016
Antenna Tower	SUNOL	TLT2	N/A	N.C.R	N.C.R
Test S/W	FARAD	LZ-RF / CCS-SZ-3A2			

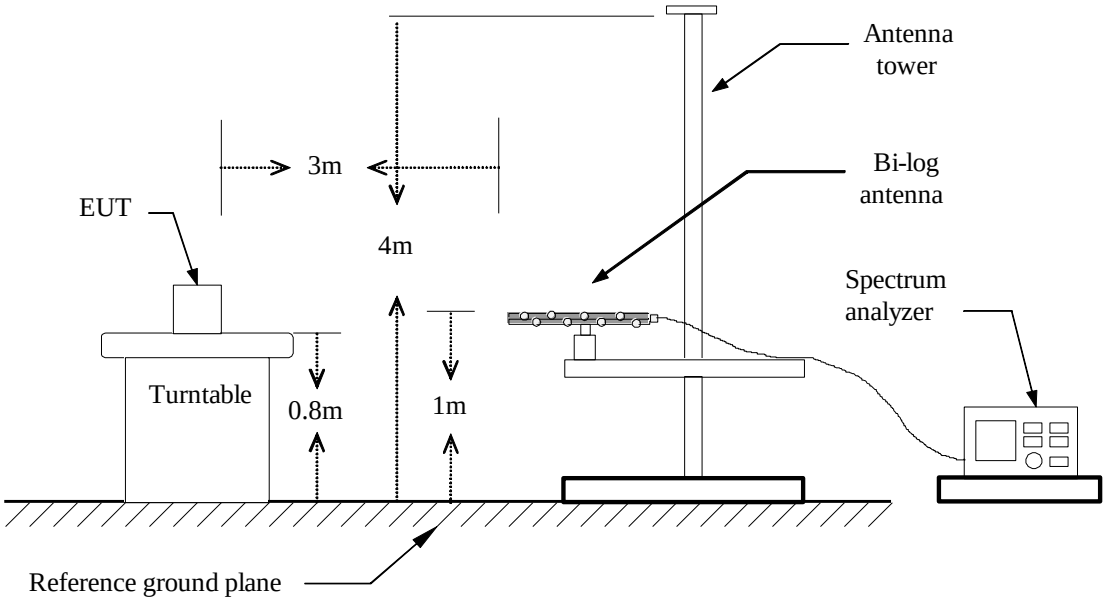
6.7.3 TEST CONFIGURATION

Below 30MHz

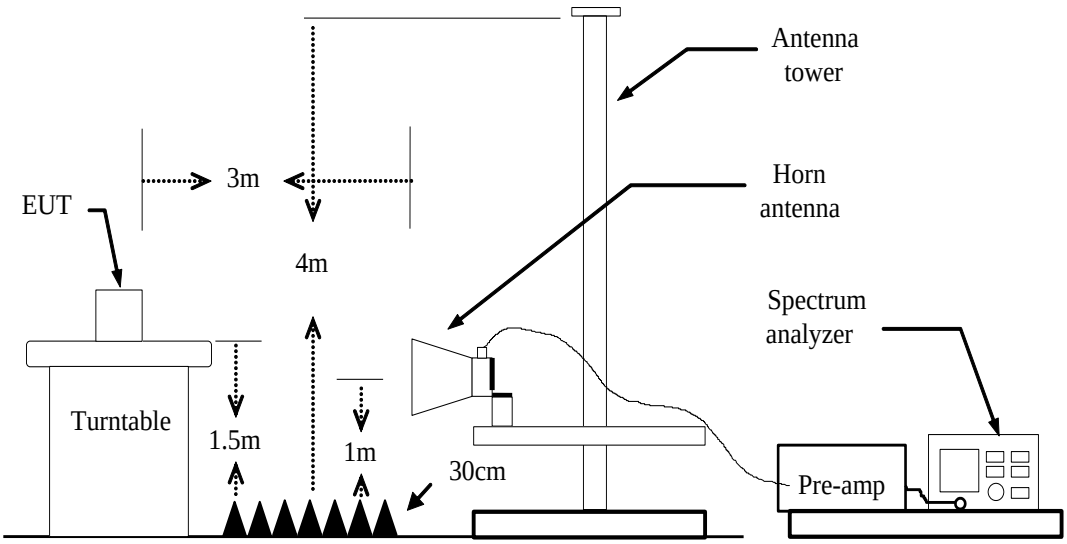


This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Below 1 GHz



Above 1 GHz



For the actual test configuration, please refer to the related item – Photographs of the TEST CONFIGURATION.

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

6.7.4 TEST PROCEDURE

1. The EUT is placed on a turntable, which is 0.8m or 1.5m 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=1MHz ／ VBW=3MHz / Sweep=AUTO

   (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO / Detector=Peak
7. Repeat above procedures until the measurements for all frequencies are complete.

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

6.7.5 DATA SAMPLE

Below 1GHz

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
XXX.XXXX	36.37	-12.20	24.17	40.00	-15.83	V	QP

Frequency (MHz) = Emission frequency in MHz
Reading (dBuV) = Uncorrected Analyzer / Receiver reading
Correct Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain
Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)
Limit (dBuV/m) = Limit stated in standard
Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)
Q.P. = Quasi-peak Reading

Above 1GHz

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
XXXX.XXXX	62.09	-11.42	50.67	74.00	-23.33	V	Peak
XXXX.XXXX	49.78	-11.42	38.36	54.00	-15.64	V	AVG

Frequency (MHz) = Emission frequency in MHz
Reading (dBuV) = Uncorrected Analyzer / Receiver reading
Correction Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain
Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)
Limit (dBuV/m) = Limit stated in standard
Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)
Peak = Peak Reading
AVG = Average Reading

Calculation Formula

Margin (dB) = Result (dBuV/m) – Limits (dBuV/m)
Result (dBuV/m) = Reading (dBuV) + Correction Factor

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

6.7.6 TEST RESULTS

Below 1 GHz

Test Mode: TX **Tested by:** Eve Wang

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** Janary 15, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
104.6900	53.95	-22.81	31.14	43.50	-12.36	V	QP
250.1900	57.01	-21.06	35.95	46.00	-10.05	V	QP
333.6100	51.99	-18.31	33.68	46.00	-12.32	V	QP
580.9600	47.99	-13.10	34.89	46.00	-11.11	V	QP
666.3200	48.17	-12.22	35.95	46.00	-10.05	V	QP
833.1600	47.39	-10.63	36.76	46.00	-9.24	V	QP
126.0300	52.97	-20.90	32.07	43.50	-11.43	H	QP
250.1900	54.87	-21.06	33.81	46.00	-12.19	H	QP
375.3200	51.40	-16.82	34.58	46.00	-11.42	H	QP
432.5500	50.22	-15.61	34.61	46.00	-11.39	H	QP
666.3200	49.65	-12.22	37.43	46.00	-8.57	H	QP
833.1600	42.97	-10.63	32.34	46.00	-13.66	H	QP

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.*
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) – Quasi-peak limit (dBuV/m).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Above 1 GHz

Test Mode: TX / IEEE 802.11a / 5180MHz /(CH Low) **Tested by:** Eve Wang

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8376.000	31.64	9.44	41.08	74.00	-32.92	V	peak
10260.000	31.19	12.79	43.98	74.00	-30.02	V	peak
10932.000	30.43	14.87	45.30	74.00	-28.70	V	peak
11844.000	31.15	14.71	45.86	74.00	-28.14	V	peak
12996.000	29.24	17.94	47.18	74.00	-26.82	V	peak
14964.000	29.63	21.14	50.77	74.00	-23.23	V	peak
7716.000	31.32	9.10	40.42	74.00	-33.58	H	Peak
8376.000	31.71	9.44	41.15	74.00	-32.85	H	Peak
11004.000	30.27	15.08	45.35	74.00	-28.65	H	Peak
11844.000	31.13	14.71	45.84	74.00	-28.16	H	peak
12924.000	29.41	17.70	47.11	74.00	-26.89	H	peak
15540.000	31.99	18.70	50.69	74.00	-23.31	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11a / 5200MHz /(CH Mid) **Tested by:** Eve Wang

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7728.000	31.51	9.12	40.63	74.00	-33.37	V	peak
8376.000	31.82	9.44	41.26	74.00	-32.74	V	peak
10056.000	30.93	12.15	43.08	74.00	-30.92	V	peak
11832.000	31.31	14.71	46.02	74.00	-27.98	V	peak
12984.000	29.40	17.90	47.30	74.00	-26.70	V	peak
15000.000	29.51	21.16	50.67	74.00	-23.33	V	peak
7728.000	31.51	9.12	40.63	74.00	-33.37	V	AVG
8364.000	31.99	9.45	41.44	74.00	-32.56	H	Peak
10944.000	30.83	14.91	45.74	74.00	-28.26	H	Peak
11832.000	31.23	14.71	45.94	74.00	-28.06	H	Peak
12456.000	29.84	16.15	45.99	74.00	-28.01	H	peak
12924.000	29.31	17.70	47.01	74.00	-26.99	H	peak
14964.000	29.43	21.14	50.57	74.00	-23.43	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11a / 5240MHz /(CH High) **Tested by:** Eve Wang

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
10176.000	31.08	12.53	43.61	74.00	-30.39	V	peak
10956.000	30.56	14.94	45.50	74.00	-28.50	V	peak
11856.000	31.39	14.70	46.09	74.00	-27.91	V	peak
12924.000	29.30	17.70	47.00	74.00	-27.00	V	peak
13476.000	28.56	19.20	47.76	74.00	-26.24	V	peak
15720.000	33.09	17.88	50.97	74.00	-23.03	V	peak
8352.000	31.70	9.46	41.16	74.00	-32.84	H	Peak
9372.000	31.47	10.17	41.64	74.00	-32.36	H	Peak
10260.000	30.78	12.79	43.57	74.00	-30.43	H	Peak
11052.000	30.64	15.06	45.70	74.00	-28.30	H	peak
11832.000	31.07	14.71	45.78	74.00	-28.22	H	peak
13032.000	29.05	18.03	47.08	74.00	-26.92	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11a / 5260MHz /(CH Low) **Tested by:** Eve Wang

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8364.000	31.91	9.45	41.36	74.00	-32.64	V	peak
10488.000	30.19	13.49	43.68	74.00	-30.32	V	peak
10980.000	30.41	15.02	45.43	74.00	-28.57	V	peak
11832.000	31.87	14.71	46.58	74.00	-27.42	V	peak
13512.000	28.32	19.30	47.62	74.00	-26.38	V	peak
15780.000	33.40	17.61	51.01	74.00	-22.99	V	peak
7692.000	31.33	9.05	40.38	74.00	-33.62	H	Peak
8436.000	31.74	9.41	41.15	74.00	-32.85	H	Peak
10524.000	30.72	13.60	44.32	74.00	-29.68	H	Peak
11052.000	30.42	15.06	45.48	74.00	-28.52	H	peak
11844.000	31.43	14.71	46.14	74.00	-27.86	H	peak
12972.000	29.38	17.86	47.24	74.00	-26.76	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11a / 5300MHz /(CH Mid) **Tested by:** Eve Wang

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8364.000	31.68	9.45	41.13	74.00	-32.87	V	peak
10152.000	30.79	12.45	43.24	74.00	-30.76	V	peak
11052.000	30.49	15.06	45.55	74.00	-28.45	V	peak
11796.000	30.54	14.73	45.27	74.00	-28.73	V	peak
12912.000	29.59	17.66	47.25	74.00	-26.75	V	peak
15900.000	32.88	17.06	49.94	74.00	-24.06	V	peak
8364.000	31.90	9.45	41.35	74.00	-32.65	H	Peak
10260.000	31.29	12.79	44.08	74.00	-29.92	H	Peak
11076.000	30.34	15.05	45.39	74.00	-28.61	H	Peak
11832.000	31.10	14.71	45.81	74.00	-28.19	H	peak
12984.000	29.34	17.90	47.24	74.00	-26.76	H	peak
13608.000	28.30	19.55	47.85	74.00	-26.15	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11a / 5320MHz /(CH High) **Tested by:** Eve Wang

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
11040.000	31.01	15.06	46.07	74.00	-27.93	V	peak
11832.000	31.21	14.71	45.92	74.00	-28.08	V	peak
12468.000	30.07	16.19	46.26	74.00	-27.74	V	peak
12972.000	29.36	17.86	47.22	74.00	-26.78	V	peak
14088.000	28.22	20.63	48.85	74.00	-25.15	V	peak
15960.000	33.21	16.79	50.00	74.00	-24.00	V	peak
8340.000	31.64	9.46	41.10	74.00	-32.90	H	Peak
10512.000	30.61	13.57	44.18	74.00	-29.82	H	Peak
11028.000	30.22	15.07	45.29	74.00	-28.71	H	Peak
11856.000	31.26	14.70	45.96	74.00	-28.04	H	peak
12996.000	29.16	17.94	47.10	74.00	-26.90	H	peak
13812.000	27.78	20.09	47.87	74.00	-26.13	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11a / 5500MHz /(CH Low) **Tested by:** Eve Wang

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8412.000	31.68	9.42	41.10	74.00	-32.90	V	peak
9720.000	30.43	11.17	41.60	74.00	-32.40	V	peak
11100.000	30.28	15.04	45.32	74.00	-28.68	V	peak
11856.000	31.15	14.70	45.85	74.00	-28.15	V	peak
12996.000	29.39	17.94	47.33	74.00	-26.67	V	peak
14076.000	28.45	20.62	49.07	74.00	-24.93	V	peak
9108.000	30.81	9.41	40.22	74.00	-33.78	H	Peak
10224.000	30.68	12.67	43.35	74.00	-30.65	H	Peak
10992.000	30.14	15.06	45.20	74.00	-28.80	H	Peak
11844.000	30.95	14.71	45.66	74.00	-28.34	H	peak
12948.000	29.76	17.78	47.54	74.00	-26.46	H	peak
15276.000	29.67	19.90	49.57	74.00	-24.43	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11a / 5580MHz /(CH Mid) **Tested by:** Eve Wang

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
10296.000	30.92	12.90	43.82	74.00	-30.18	V	peak
11052.000	30.54	15.06	45.60	74.00	-28.40	V	peak
11832.000	31.09	14.71	45.80	74.00	-28.20	V	peak
13020.000	29.38	18.00	47.38	74.00	-26.62	V	peak
13764.000	28.19	19.96	48.15	74.00	-25.85	V	peak
14952.000	29.46	21.13	50.59	74.00	-19.46	V	peak
8364.000	31.67	9.45	41.12	74.00	-32.88	H	Peak
10284.000	30.70	12.86	43.56	74.00	-30.44	H	Peak
10956.000	30.44	14.94	45.38	74.00	-28.62	H	Peak
11832.000	31.07	14.71	45.78	74.00	-28.22	H	peak
12996.000	28.98	17.94	46.92	74.00	-27.08	H	peak
13464.000	28.36	19.17	47.53	74.00	-26.47	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11a / 5700MHz /(CH High) **Tested by:** Eve Wang

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8352.000	31.96	9.46	41.42	74.00	-32.58	V	peak
10512.000	30.51	13.57	44.08	74.00	-29.92	V	peak
11028.000	30.50	15.07	45.57	74.00	-28.43	V	peak
11832.000	31.01	14.71	45.72	74.00	-28.28	V	peak
13068.000	29.00	18.13	47.13	74.00	-26.87	V	peak
13452.000	28.39	19.14	47.53	74.00	-26.47	V	peak
10044.000	31.12	12.12	43.24	74.00	-30.76	H	Peak
11052.000	30.47	15.06	45.53	74.00	-28.47	H	Peak
11832.000	30.82	14.71	45.53	74.00	-28.47	H	Peak
12768.000	29.57	17.18	46.75	74.00	-27.25	H	peak
13752.000	27.77	19.93	47.70	74.00	-26.30	H	peak
15516.000	29.70	18.81	48.51	74.00	-25.49	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11a / 5745MHz /(CH Low) **Tested by:** Eve Wang

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8340.000	31.51	9.46	40.97	74.00	-33.03	V	peak
10296.000	30.71	12.90	43.61	74.00	-30.39	V	peak
11064.000	30.21	15.05	45.26	74.00	-28.74	V	peak
11844.000	30.75	14.71	45.46	74.00	-28.54	V	peak
12636.000	29.83	16.75	46.58	74.00	-27.42	V	peak
14988.000	29.24	21.15	50.39	74.00	-23.61	V	peak
8352.000	31.72	9.46	41.18	74.00	-32.82	H	Peak
10140.000	31.40	12.41	43.81	74.00	-30.19	H	Peak
11040.000	30.23	15.06	45.29	74.00	-28.71	H	Peak
11856.000	30.83	14.70	45.53	74.00	-28.47	H	peak
12924.000	29.08	17.70	46.78	74.00	-27.22	H	peak
13560.000	28.19	19.42	47.61	74.00	-26.39	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11a / 5785MHz /(CH Mid) **Tested by:** Eve Wang

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
10296.000	31.14	12.90	44.04	74.00	-29.96	V	peak
10956.000	30.42	14.94	45.36	74.00	-28.64	V	peak
11832.000	30.88	14.71	45.59	74.00	-28.41	V	peak
12984.000	29.13	17.90	47.03	74.00	-26.97	V	peak
13596.000	28.09	19.52	47.61	74.00	-26.39	V	peak
14280.000	28.80	20.74	49.54	74.00	-24.46	V	peak
8424.000	32.13	9.42	41.55	74.00	-32.45	H	Peak
10260.000	30.82	12.79	43.61	74.00	-30.39	H	Peak
10944.000	30.39	14.91	45.30	74.00	-28.70	H	Peak
11856.000	30.90	14.70	45.60	74.00	-28.40	H	peak
12840.000	29.55	17.42	46.97	74.00	-27.03	H	peak
13584.000	28.09	19.49	47.58	74.00	-26.42	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11a / 5825MHz /(CH High) **Tested by:** Eve Wang

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7764.000	31.82	9.19	41.01	74.00	-32.99	V	peak
8400.000	31.69	9.43	41.12	74.00	-32.88	V	peak
11016.000	30.66	15.07	45.73	74.00	-28.27	V	peak
11820.000	31.09	14.72	45.81	74.00	-28.19	V	peak
12996.000	29.50	17.94	47.44	74.00	-26.56	V	peak
13476.000	28.51	19.20	47.71	74.00	-26.29	V	peak
8340.000	31.75	9.46	41.21	74.00	-32.79	H	Peak
10524.000	30.25	13.60	43.85	74.00	-30.15	H	Peak
11040.000	30.63	15.06	45.69	74.00	-28.31	H	Peak
11844.000	31.18	14.71	45.89	74.00	-28.11	H	peak
13032.000	28.96	18.03	46.99	74.00	-27.01	H	peak
13476.000	28.47	19.20	47.67	74.00	-26.33	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5180MHz /(CH Low) **Tested by:** Eve Wang
Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8376.000	32.08	9.44	41.52	74.00	-32.48	V	peak
10296.000	30.65	12.90	43.55	74.00	-30.45	V	peak
11052.000	30.42	15.06	45.48	74.00	-28.52	V	peak
11844.000	31.10	14.71	45.81	74.00	-28.19	V	peak
12624.000	30.24	16.71	46.95	74.00	-27.05	V	peak
13488.000	28.61	19.23	47.84	74.00	-26.16	V	peak
8388.000	31.57	9.44	41.01	74.00	-32.99	H	Peak
10512.000	30.21	13.57	43.78	74.00	-30.22	H	Peak
11088.000	30.47	15.04	45.51	74.00	-28.49	H	Peak
11856.000	30.77	14.70	45.47	74.00	-28.53	H	peak
13008.000	29.21	17.97	47.18	74.00	-26.82	H	peak
13572.000	28.29	19.45	47.74	74.00	-26.26	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5200MHz /(CH Mid) **Tested by:** Eve Wang
Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7752.000	31.68	9.17	40.85	74.00	-33.15	V	peak
8316.000	31.67	9.48	41.15	74.00	-32.85	V	peak
10272.000	30.97	12.82	43.79	74.00	-30.21	V	peak
11040.000	30.38	15.06	45.44	74.00	-28.56	V	peak
11844.000	30.68	14.71	45.39	74.00	-28.61	V	peak
14940.000	29.45	21.13	50.58	74.00	-23.42	V	peak
10032.000	31.32	12.08	43.40	74.00	-30.60	H	Peak
11028.000	30.58	15.07	45.65	74.00	-28.35	H	Peak
11832.000	31.01	14.71	45.72	74.00	-28.28	H	Peak
12972.000	29.13	17.86	46.99	74.00	-27.01	H	peak
13548.000	28.08	19.39	47.47	74.00	-26.53	H	peak
15600.000	32.62	18.43	51.05	74.00	-22.95	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5240MHz /(CH High) **Tested by:** Eve Wang
Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8388.000	32.28	9.44	41.72	74.00	-32.28	V	peak
10968.000	30.19	14.98	45.17	74.00	-28.83	V	peak
11832.000	30.65	14.71	45.36	74.00	-28.64	V	peak
12792.000	29.43	17.26	46.69	74.00	-27.31	V	peak
13524.000	28.23	19.33	47.56	74.00	-26.44	V	peak
15000.000	29.52	21.16	50.68	74.00	-23.32	V	peak
7752.000	31.72	9.17	40.89	74.00	-33.11	H	Peak
10272.000	30.77	12.82	43.59	74.00	-30.41	H	Peak
11040.000	30.34	15.06	45.40	74.00	-28.60	H	Peak
11820.000	30.67	14.72	45.39	74.00	-28.61	H	peak
12912.000	29.50	17.66	47.16	74.00	-26.84	H	peak
13488.000	28.65	19.23	47.88	74.00	-26.12	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5260MHz /(CH Low) **Tested by:** Eve Wang
Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8340.000	31.60	9.46	41.06	74.00	-32.94	V	peak
11004.000	30.21	15.08	45.29	74.00	-28.71	V	peak
11844.000	30.96	14.71	45.67	74.00	-28.33	V	peak
13140.000	28.63	18.32	46.95	74.00	-27.05	V	peak
13512.000	28.37	19.30	47.67	74.00	-26.33	V	peak
15780.000	33.19	17.61	50.80	74.00	-23.20	V	peak
8364.000	31.71	9.45	41.16	74.00	-32.84	H	Peak
10320.000	30.45	12.97	43.42	74.00	-30.58	H	Peak
11040.000	30.23	15.06	45.29	74.00	-28.71	H	Peak
11844.000	30.98	14.71	45.69	74.00	-28.31	H	peak
12912.000	29.26	17.66	46.92	74.00	-27.08	H	peak
13548.000	28.41	19.39	47.80	74.00	-26.20	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5300MHz /(CH Mid) **Tested by:** Eve Wang
Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
10164.000	30.84	12.49	43.33	74.00	-30.67	V	peak
10944.000	30.51	14.91	45.42	74.00	-28.58	V	peak
11832.000	30.82	14.71	45.53	74.00	-28.47	V	peak
13116.000	28.56	18.26	46.82	74.00	-27.18	V	peak
13512.000	28.22	19.30	47.52	74.00	-26.48	V	peak
15900.000	32.03	17.06	49.09	74.00	-24.91	V	peak
8364.000	31.43	9.45	40.88	74.00	-33.12	H	Peak
10152.000	31.04	12.45	43.49	74.00	-30.51	H	Peak
10944.000	30.36	14.91	45.27	74.00	-28.73	H	Peak
11832.000	31.09	14.71	45.80	74.00	-28.20	H	peak
12936.000	29.40	17.74	47.14	74.00	-26.86	H	peak
14100.000	28.77	20.64	49.41	74.00	-24.59	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5320MHz /(CH High) **Tested by:** Eve Wang
Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8340.000	31.40	9.46	40.86	74.00	-33.14	V	peak
11052.000	30.35	15.06	45.41	74.00	-28.59	V	peak
11832.000	30.80	14.71	45.51	74.00	-28.49	V	peak
13008.000	29.56	17.97	47.53	74.00	-26.47	V	peak
13764.000	28.24	19.96	48.20	74.00	-25.80	V	peak
15960.000	32.63	16.79	49.42	74.00	-24.58	V	peak
8340.000	31.47	9.46	40.93	74.00	-33.07	H	Peak
10512.000	30.31	13.57	43.88	74.00	-30.12	H	Peak
11052.000	30.28	15.06	45.34	74.00	-28.66	H	Peak
11820.000	31.03	14.72	45.75	74.00	-28.25	H	peak
12948.000	29.29	17.78	47.07	74.00	-26.93	H	peak
13560.000	28.70	19.42	48.12	74.00	-25.88	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5500MHz /(CH Low) **Tested by:** Eve Wang
Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8352.000	31.74	9.46	41.20	74.00	-32.80	V	peak
10308.000	30.71	12.93	43.64	74.00	-30.36	V	peak
10956.000	30.37	14.94	45.31	74.00	-28.69	V	peak
11832.000	30.79	14.71	45.50	74.00	-28.50	V	peak
12960.000	29.19	17.82	47.01	74.00	-26.99	V	peak
13908.000	27.80	20.34	48.14	74.00	-25.86	V	peak
8376.000	31.68	9.44	41.12	74.00	-32.88	H	Peak
11004.000	30.18	15.08	45.26	74.00	-28.74	H	Peak
11808.000	30.93	14.72	45.65	74.00	-28.35	H	Peak
13008.000	28.96	17.97	46.93	74.00	-27.07	H	peak
13584.000	27.97	19.49	47.46	74.00	-26.54	H	peak
15804.000	31.22	17.50	48.72	74.00	-25.28	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5580MHz /(CH Mid) **Tested by:** Eve Wang
Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8364.000	31.48	9.45	40.93	74.00	-33.07	V	peak
10500.000	30.07	13.53	43.60	74.00	-30.40	V	peak
10956.000	30.37	14.94	45.31	74.00	-28.69	V	peak
11844.000	30.96	14.71	45.67	74.00	-28.33	V	peak
13008.000	29.10	17.97	47.07	74.00	-26.93	V	peak
14232.000	29.10	20.71	49.81	74.00	-24.19	V	peak
7764.000	31.96	9.19	41.15	74.00	-32.85	H	Peak
10524.000	30.42	13.60	44.02	74.00	-29.98	H	Peak
11076.000	30.25	15.05	45.30	74.00	-28.70	H	Peak
11856.000	30.83	14.70	45.53	74.00	-28.47	H	peak
12984.000	29.38	17.90	47.28	74.00	-26.72	H	peak
13608.000	28.14	19.55	47.69	74.00	-26.31	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5700MHz /(CH High) **Tested by:** Eve Wang
Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8412.000	31.74	9.42	41.16	74.00	-32.84	V	peak
10512.000	30.47	13.57	44.04	74.00	-29.96	V	peak
11064.000	30.35	15.05	45.40	74.00	-28.60	V	peak
11832.000	30.83	14.71	45.54	74.00	-28.46	V	peak
12996.000	29.17	17.94	47.11	74.00	-26.89	V	peak
13752.000	27.62	19.93	47.55	74.00	-26.45	V	peak
8340.000	31.60	9.46	41.06	74.00	-32.94	H	Peak
10392.000	30.46	13.20	43.66	74.00	-30.34	H	Peak
10968.000	30.45	14.98	45.43	74.00	-28.57	H	Peak
11832.000	30.88	14.71	45.59	74.00	-28.41	H	peak
12996.000	29.09	17.94	47.03	74.00	-26.97	H	peak
13560.000	28.53	19.42	47.95	74.00	-26.05	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5745MHz /(CH Low) **Tested by:** Eve Wang
Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
9384.000	31.22	10.21	41.43	74.00	-32.57	V	peak
11028.000	30.11	15.07	45.18	74.00	-28.82	V	peak
11844.000	31.53	14.71	46.24	74.00	-27.76	V	peak
13008.000	29.18	17.97	47.15	74.00	-26.85	V	peak
13608.000	28.30	19.55	47.85	74.00	-26.15	V	peak
14808.000	29.10	21.05	50.15	74.00	-23.85	V	peak
8340.000	31.69	9.46	41.15	74.00	-32.85	H	Peak
10272.000	30.57	12.82	43.39	74.00	-30.61	H	Peak
10980.000	30.19	15.02	45.21	74.00	-28.79	H	Peak
11856.000	30.88	14.70	45.58	74.00	-28.42	H	peak
12912.000	29.53	17.66	47.19	74.00	-26.81	H	peak
13464.000	28.30	19.17	47.47	74.00	-26.53	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5785MHz /(CH Mid) **Tested by:** Eve Wang
Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8376.000	31.75	9.44	41.19	74.00	-32.81	V	peak
10296.000	30.75	12.90	43.65	74.00	-30.35	V	peak
11052.000	30.39	15.06	45.45	74.00	-28.55	V	peak
11856.000	31.25	14.70	45.95	74.00	-28.05	V	peak
12780.000	29.68	17.22	46.90	74.00	-27.10	V	peak
13548.000	28.14	19.39	47.53	74.00	-26.47	V	peak
8364.000	31.99	9.45	41.44	74.00	-32.56	H	Peak
10152.000	31.46	12.45	43.91	74.00	-30.09	H	Peak
11040.000	30.44	15.06	45.50	74.00	-28.50	H	Peak
11844.000	31.30	14.71	46.01	74.00	-27.99	H	peak
12792.000	29.75	17.26	47.01	74.00	-26.99	H	peak
13440.000	28.19	19.11	47.30	74.00	-26.70	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5825MHz /(CH High) **Tested by:** Eve Wang
Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8364.000	31.59	9.45	41.04	74.00	-32.96	V	peak
10524.000	30.24	13.60	43.84	74.00	-30.16	V	peak
10956.000	30.45	14.94	45.39	74.00	-28.61	V	peak
11844.000	30.90	14.71	45.61	74.00	-28.39	V	peak
12720.000	29.61	17.02	46.63	74.00	-27.37	V	peak
13596.000	27.97	19.52	47.49	74.00	-26.51	V	peak
9372.000	31.36	10.17	41.53	74.00	-32.47	H	Peak
10308.000	30.79	12.93	43.72	74.00	-30.28	H	Peak
10980.000	30.36	15.02	45.38	74.00	-28.62	H	Peak
11844.000	30.94	14.71	45.65	74.00	-28.35	H	peak
12660.000	29.68	16.82	46.50	74.00	-27.50	H	peak
13596.000	27.89	19.52	47.41	74.00	-26.59	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11n HT 40 MHz / 5190MHz /(CH Low) **Tested by:** Eve Wang
Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
10500.000	30.36	13.53	43.89	74.00	-30.11	V	peak
11016.000	30.28	15.07	45.35	74.00	-28.65	V	peak
11844.000	30.78	14.71	45.49	74.00	-28.51	V	peak
13488.000	28.71	19.23	47.94	74.00	-26.06	V	peak
15372.000	29.65	19.47	49.12	74.00	-24.88	V	peak
15816.000	31.20	17.45	48.65	74.00	-25.35	V	peak
9396.000	31.26	10.24	41.50	74.00	-32.50	H	Peak
10524.000	30.50	13.60	44.10	74.00	-29.90	H	Peak
11052.000	30.30	15.06	45.36	74.00	-28.64	H	Peak
11832.000	30.71	14.71	45.42	74.00	-28.58	H	peak
13020.000	29.08	18.00	47.08	74.00	-26.92	H	peak
13596.000	28.12	19.52	47.64	74.00	-26.36	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11n HT 40 MHz / 5230MHz /(CH High) **Tested by:** Eve Wang
Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8364.000	31.73	9.45	41.18	74.00	-32.82	V	peak
10296.000	30.69	12.90	43.59	74.00	-30.41	V	peak
11028.000	30.21	15.07	45.28	74.00	-28.72	V	peak
11856.000	30.82	14.70	45.52	74.00	-28.48	V	peak
13044.000	29.04	18.07	47.11	74.00	-26.89	V	peak
15684.000	32.76	18.05	50.81	74.00	-23.19	V	peak
10152.000	31.04	12.45	43.49	74.00	-30.51	H	Peak
11028.000	30.21	15.07	45.28	74.00	-28.72	H	Peak
11844.000	30.77	14.71	45.48	74.00	-28.52	H	Peak
13068.000	28.84	18.13	46.97	74.00	-27.03	H	peak
13740.000	27.85	19.90	47.75	74.00	-26.25	H	peak
15684.000	31.79	18.05	49.84	74.00	-24.16	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11n HT 40 MHz / 5270MHz /(CH Low) **Tested by:** Eve Wang
Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
10512.000	30.49	13.57	44.06	74.00	-29.94	V	peak
11052.000	30.34	15.06	45.40	74.00	-28.60	V	peak
11844.000	30.78	14.71	45.49	74.00	-28.51	V	peak
12912.000	29.25	17.66	46.91	74.00	-27.09	V	peak
13596.000	28.13	19.52	47.65	74.00	-26.35	V	peak
15816.000	32.07	17.45	49.52	74.00	-24.48	V	peak
8340.000	31.70	9.46	41.16	74.00	-32.84	H	Peak
10944.000	30.42	14.91	45.33	74.00	-28.67	H	Peak
11856.000	31.01	14.70	45.71	74.00	-28.29	H	Peak
13020.000	29.10	18.00	47.10	74.00	-26.90	H	peak
13584.000	28.07	19.49	47.56	74.00	-26.44	H	peak
15780.000	31.36	17.61	48.97	74.00	-25.03	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11n HT 40 MHz / 5310MHz /(CH High) **Tested by:** Eve Wang
Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8352.000	31.40	9.46	40.86	74.00	-33.14	V	peak
10512.000	30.53	13.57	44.10	74.00	-29.90	V	peak
10992.000	30.43	15.06	45.49	74.00	-28.51	V	peak
11832.000	30.84	14.71	45.55	74.00	-28.45	V	peak
12780.000	29.39	17.22	46.61	74.00	-27.39	V	peak
13548.000	28.21	19.39	47.60	74.00	-26.40	V	peak
8352.000	31.60	9.46	41.06	74.00	-32.94	H	Peak
9384.000	31.88	10.21	42.09	74.00	-31.91	H	Peak
10056.000	31.39	12.15	43.54	74.00	-30.46	H	Peak
11016.000	30.25	15.07	45.32	74.00	-28.68	H	peak
11832.000	30.87	14.71	45.58	74.00	-28.42	H	peak
12852.000	29.48	17.46	46.94	74.00	-27.06	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11n HT 40 MHz / 5510MHz /(CH Low) **Tested by:** Eve Wang
Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8364.000	31.67	9.45	41.12	74.00	-32.88	V	peak
10500.000	30.71	13.53	44.24	74.00	-29.76	V	peak
11052.000	30.44	15.06	45.50	74.00	-28.50	V	peak
11844.000	30.99	14.71	45.70	74.00	-28.30	V	peak
12984.000	29.33	17.90	47.23	74.00	-26.77	V	peak
15612.000	30.46	18.38	48.84	74.00	-25.16	V	peak
8352.000	31.88	9.46	41.34	74.00	-32.66	H	Peak
9408.000	31.15	10.28	41.43	74.00	-32.57	H	Peak
10944.000	30.43	14.91	45.34	74.00	-28.66	H	Peak
11844.000	30.93	14.71	45.64	74.00	-28.36	H	peak
13152.000	28.97	18.35	47.32	74.00	-26.68	H	peak
15828.000	31.32	17.39	48.71	74.00	-25.29	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11n HT 40 MHz / 5550MHz /(CH Mid) **Tested by:** Eve Wang
Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8352.000	31.53	9.46	40.99	74.00	-33.01	V	peak
10944.000	30.27	14.91	45.18	74.00	-28.82	V	peak
11844.000	30.88	14.71	45.59	74.00	-28.41	V	peak
12768.000	29.21	17.18	46.39	74.00	-27.61	V	peak
13524.000	28.15	19.33	47.48	74.00	-26.52	V	peak
15816.000	31.13	17.45	48.58	74.00	-25.42	V	peak
8352.000	31.70	9.46	41.16	74.00	-32.84	H	Peak
10260.000	30.96	12.79	43.75	74.00	-30.25	H	Peak
10944.000	30.31	14.91	45.22	74.00	-28.78	H	Peak
11832.000	30.75	14.71	45.46	74.00	-28.54	H	peak
13008.000	29.28	17.97	47.25	74.00	-26.75	H	peak
15828.000	31.17	17.39	48.56	74.00	-25.44	H	AVG

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11n HT 40 MHz / 5670MHz /(CH High) **Tested by:** Eve Wang
Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
10308.000	30.71	12.93	43.64	74.00	-30.36	V	peak
11052.000	30.25	15.06	45.31	74.00	-28.69	V	peak
12504.000	29.71	16.31	46.02	74.00	-27.98	V	peak
12996.000	29.50	17.94	47.44	74.00	-26.56	V	peak
13596.000	28.16	19.52	47.68	74.00	-26.32	V	peak
15012.000	29.30	21.11	50.41	74.00	-23.59	V	peak
8352.000	31.50	9.46	40.96	74.00	-33.04	H	Peak
10512.000	30.58	13.57	44.15	74.00	-29.85	H	Peak
10980.000	30.19	15.02	45.21	74.00	-28.79	H	Peak
11832.000	31.01	14.71	45.72	74.00	-28.28	H	peak
12936.000	29.15	17.74	46.89	74.00	-27.11	H	peak
13584.000	28.42	19.49	47.91	74.00	-26.09	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11n HT 40 MHz / 5755MHz /(CH Low) **Tested by:** Eve Wang
Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8340.000	31.54	9.46	41.00	74.00	-33.00	V	peak
10176.000	31.20	12.53	43.73	74.00	-30.27	V	peak
11124.000	30.07	15.03	45.10	74.00	-28.90	V	peak
11820.000	30.54	14.72	45.26	74.00	-28.74	V	peak
12996.000	28.81	17.94	46.75	74.00	-27.25	V	peak
13632.000	28.02	19.61	47.63	74.00	-26.37	V	peak
8352.000	31.50	9.46	40.96	74.00	-33.04	H	Peak
10980.000	30.19	15.02	45.21	74.00	-28.79	H	Peak
11832.000	31.01	14.71	45.72	74.00	-28.28	H	Peak
12876.000	29.25	17.54	46.79	74.00	-27.21	H	peak
13524.000	28.15	19.33	47.48	74.00	-26.52	H	peak
15804.000	31.36	17.50	48.86	74.00	-25.14	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Mode: TX / IEEE 802.11n HT 40 MHz / 5795MHz /(CH High) **Tested by:** Eve Wang
Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** February 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8328.000	31.45	9.47	40.92	74.00	-33.08	V	peak
10296.000	30.32	12.90	43.22	74.00	-30.78	V	peak
10956.000	30.04	14.94	44.98	74.00	-29.02	V	peak
11844.000	31.13	14.71	45.84	74.00	-28.16	V	peak
13020.000	29.35	18.00	47.35	74.00	-26.65	V	peak
15828.000	30.97	17.39	48.36	74.00	-25.64	V	peak
8424.000	31.75	9.42	41.17	74.00	-32.83	H	Peak
10260.000	30.59	12.79	43.38	74.00	-30.62	H	Peak
11052.000	30.70	15.06	45.76	74.00	-28.24	H	Peak
12456.000	29.87	16.15	46.02	74.00	-27.98	H	peak
13140.000	29.02	18.32	47.34	74.00	-26.66	H	peak
13572.000	28.25	19.45	47.70	74.00	-26.30	H	peak

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).*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

6.8 CONDUCTED UNDESIRABLE EMISSION

6.8.1 LIMIT

According to 15.407(b) ,

(1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

(2) For transmitters operating in the 5.725–5.850 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of –17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of –27 dBm/MHz.

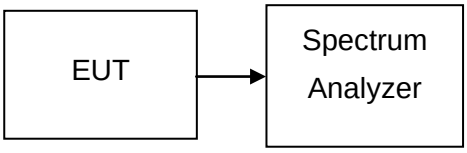
(3) The provisions of §15.205 apply to intentional radiators operating under this section.

6.8.2 MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	E4446A	US44300399	02/28/2015	02/27/2016

Remark: *Each piece of equipment is scheduled for calibration once a year.*

6.8.3 TEST CONFIGURATION



6.8.4 TEST PROCEDURE

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 1 MHz. The video bandwidth is set to 1 MHz. Peak detection measurements are compared to the average EIRP limit, adjusted for the maximum antenna gain. If necessary, additional average detection measurements are made.

Measurements are made over the 30 MHz to 40 GHz range with the transmitter set to the lowest, middle, and highest channels.

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

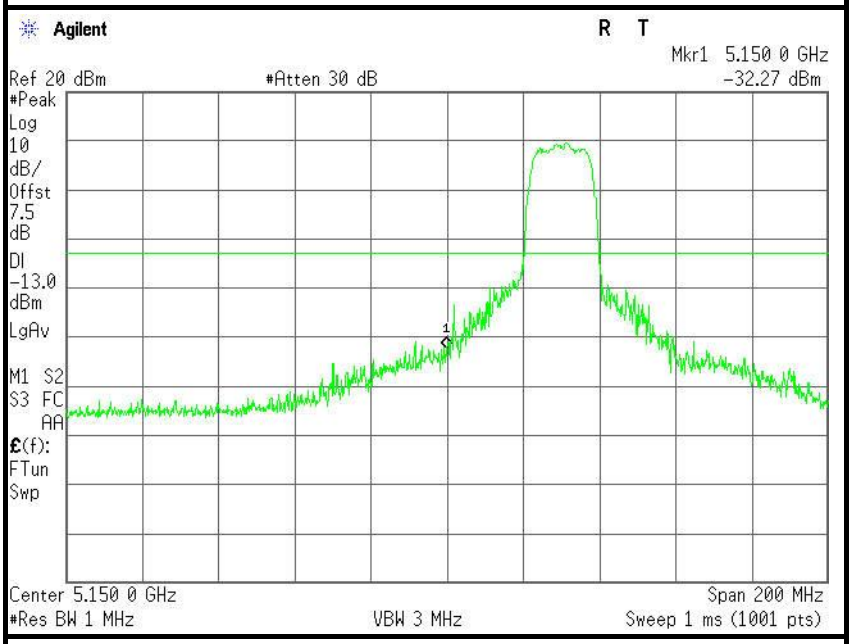
6.8.5 TEST RESULTS

No non-compliance noted

Test Plot

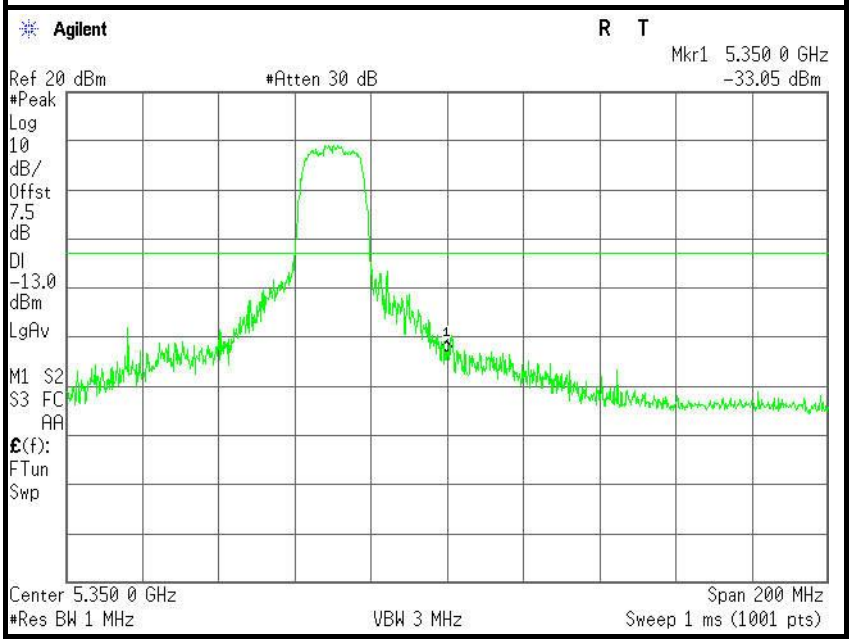
IEEE 802.11a mode / 5180 ~ 5240MHz

CH Low



IEEE 802.11a mode / 5260~ 5320MHz

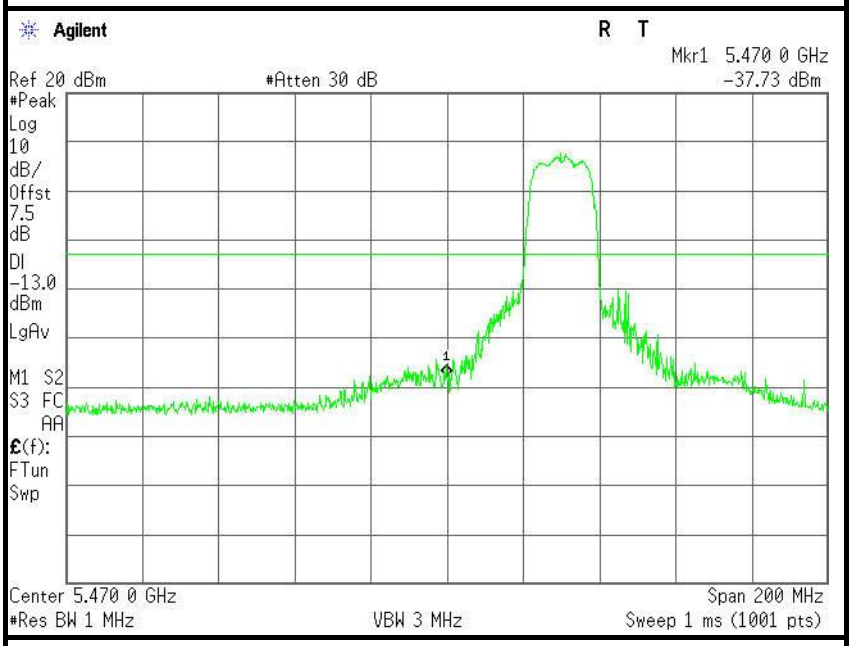
CH High



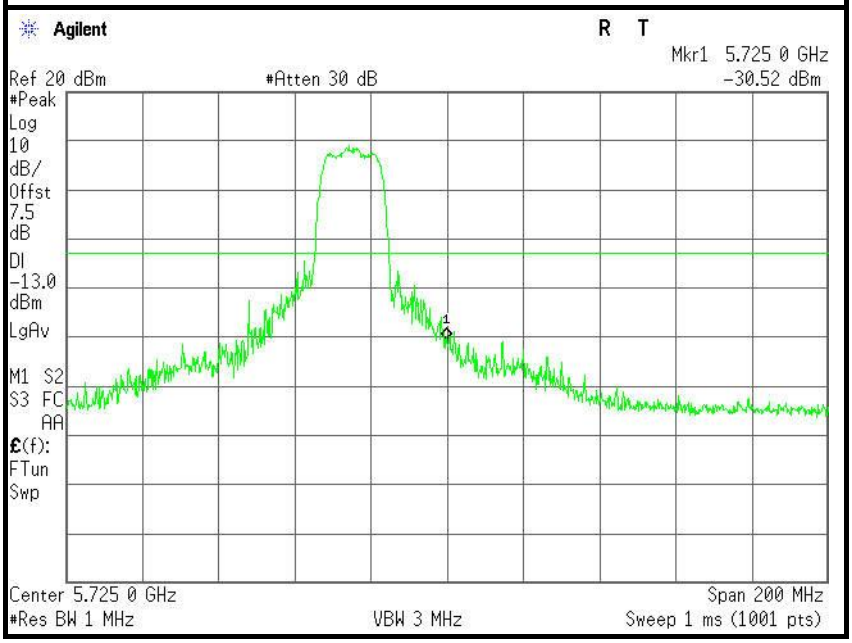
This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11a mode / 5500 ~ 5700MHz

CH Low



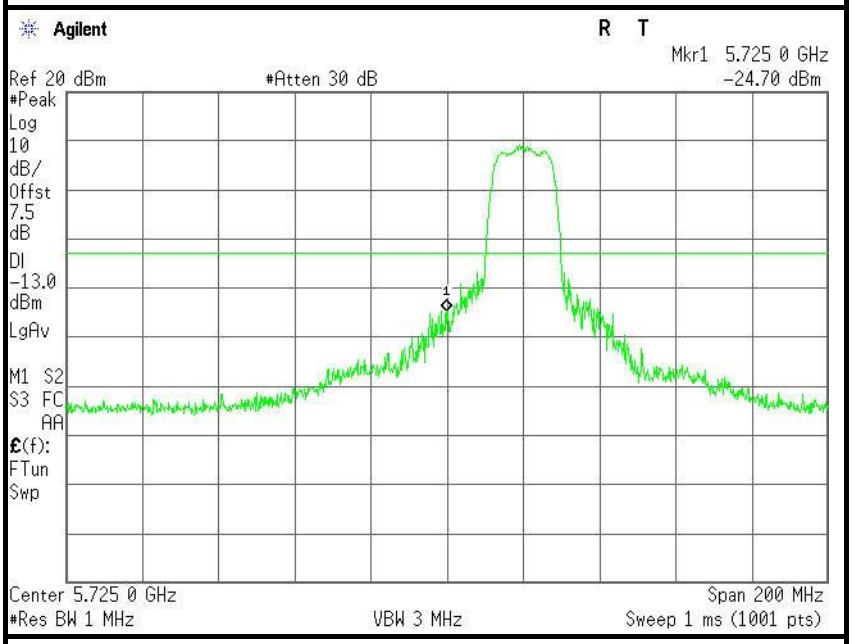
CH High



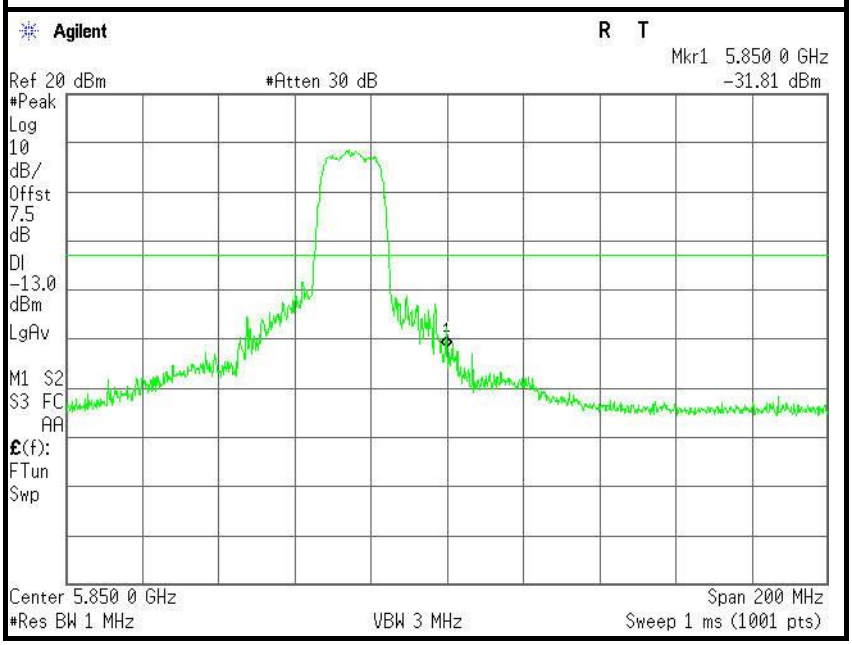
This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11a mode / 5745 ~ 5825MHz

CH Low



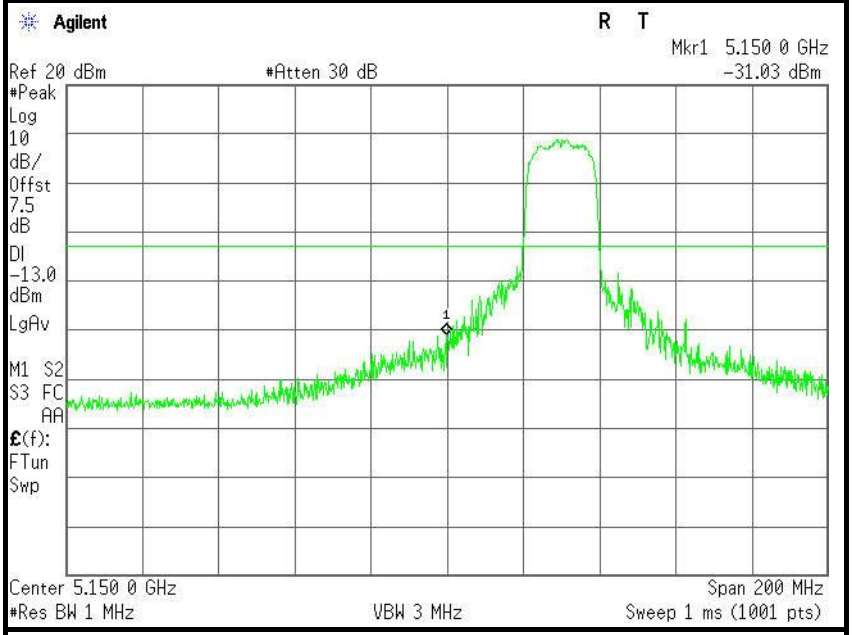
CH High



This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

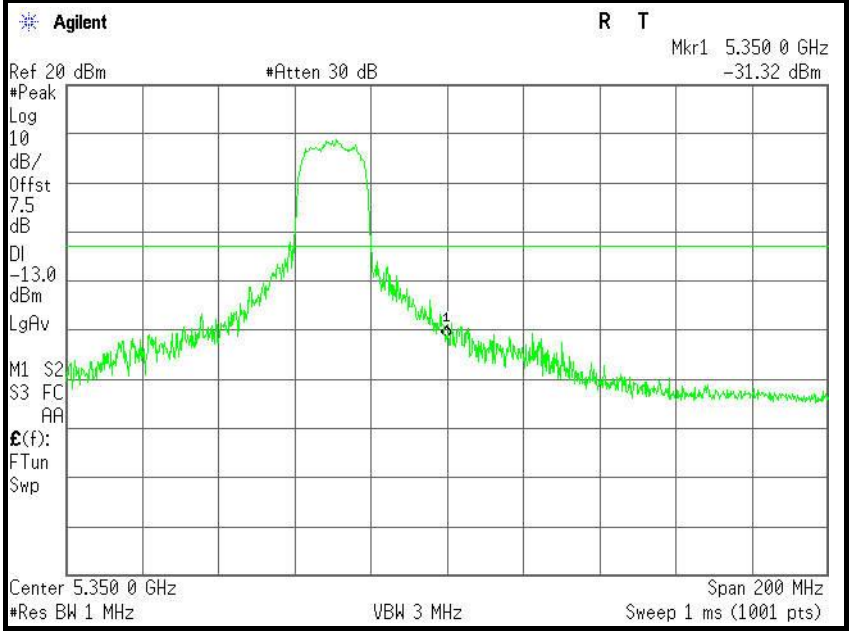
IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz

CH Low



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

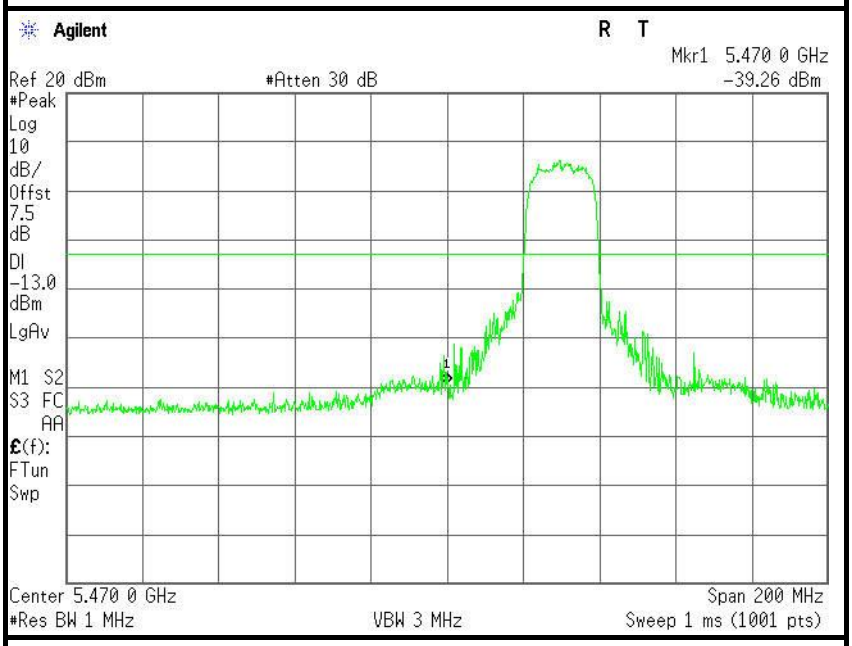
CH high



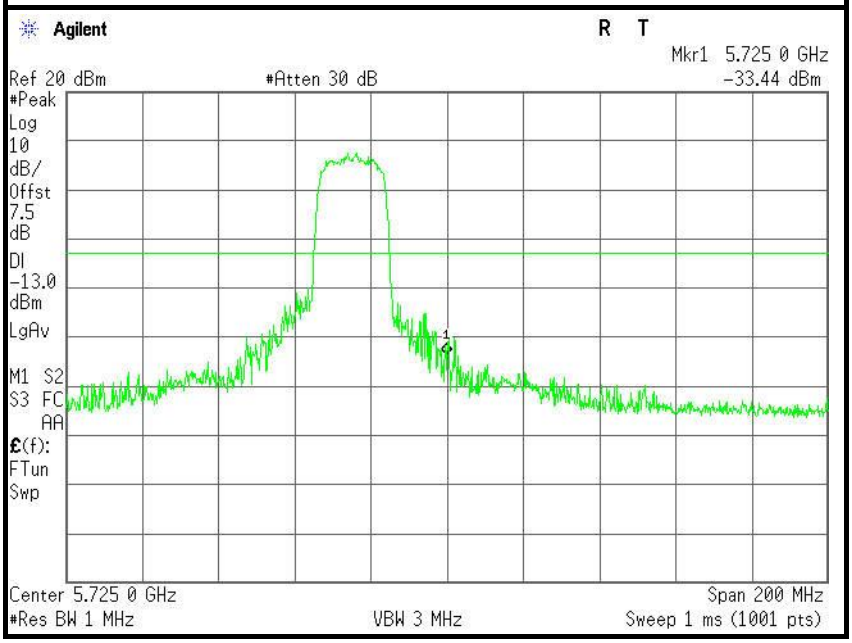
This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

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

CH Low



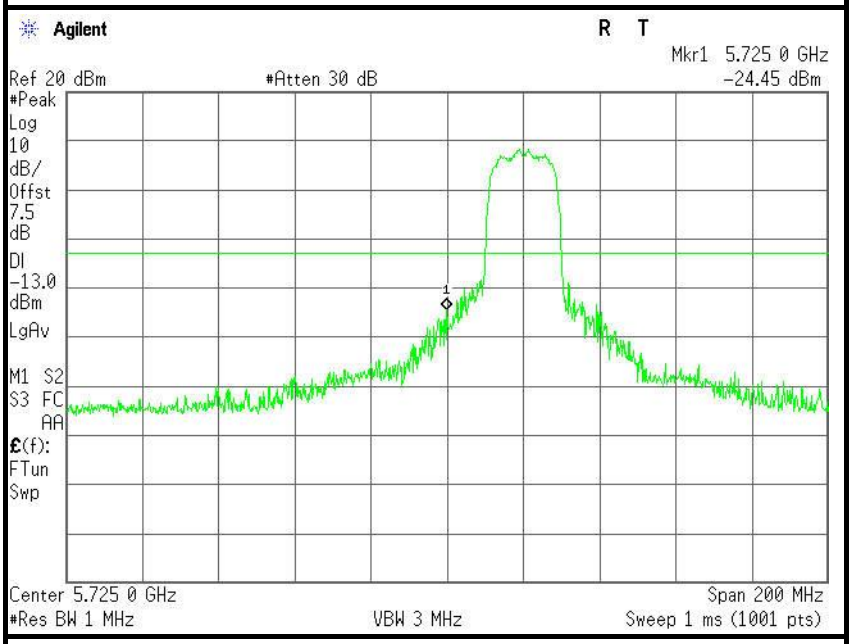
CH High



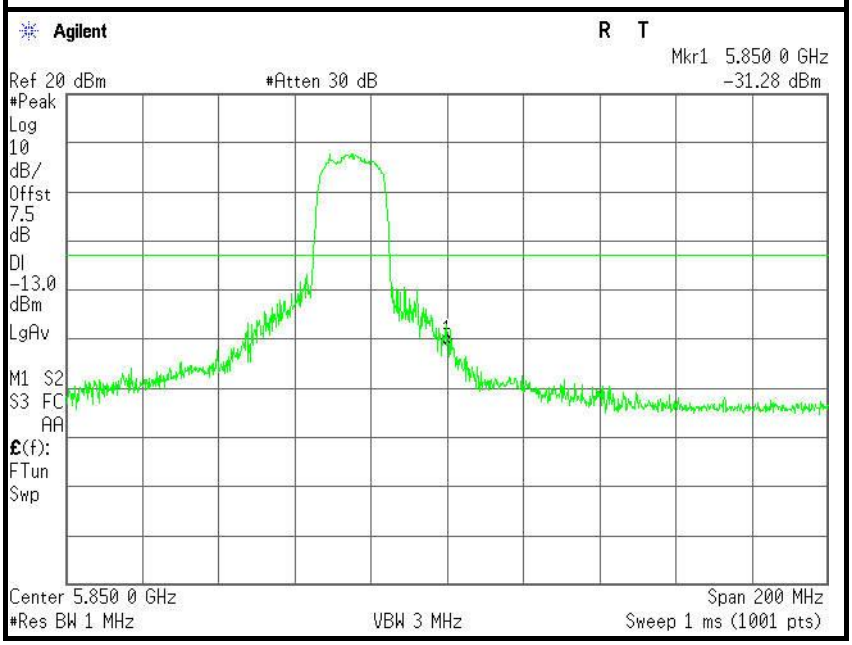
This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

CH Low



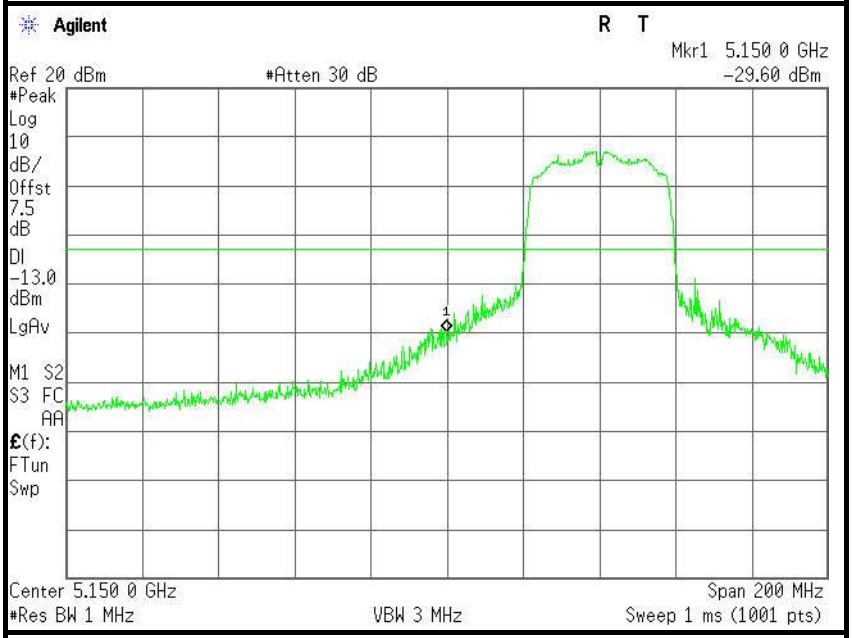
CH High



This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

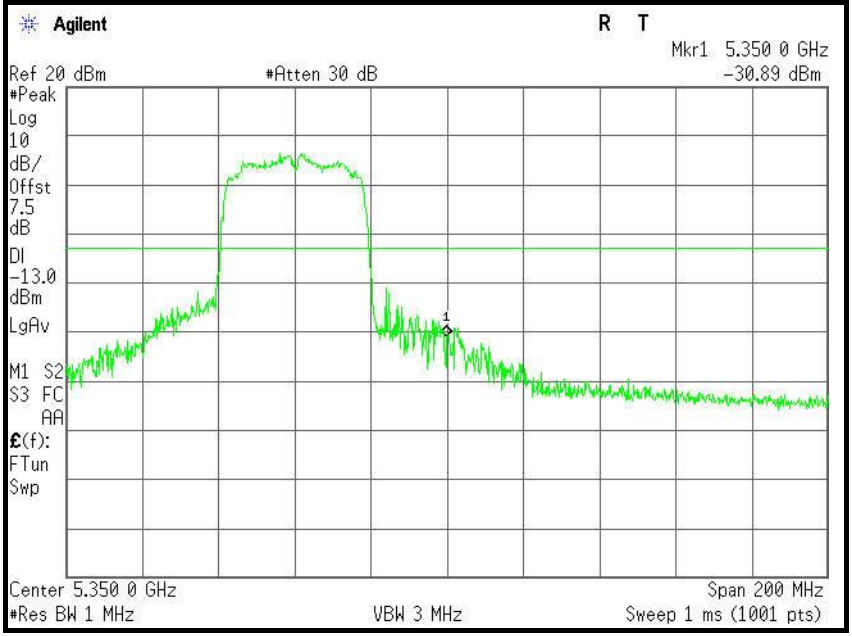
IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz

CH Low



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

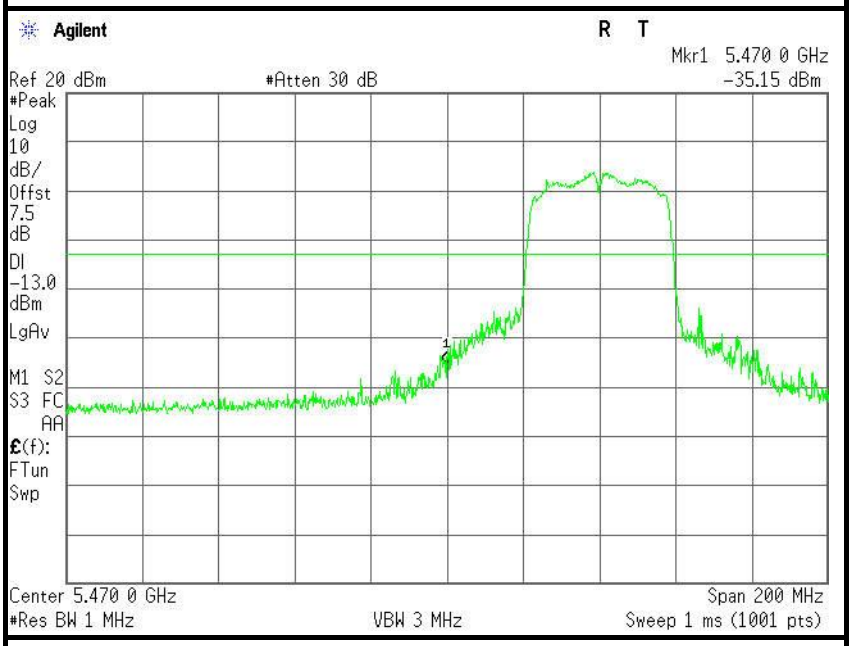
CH High



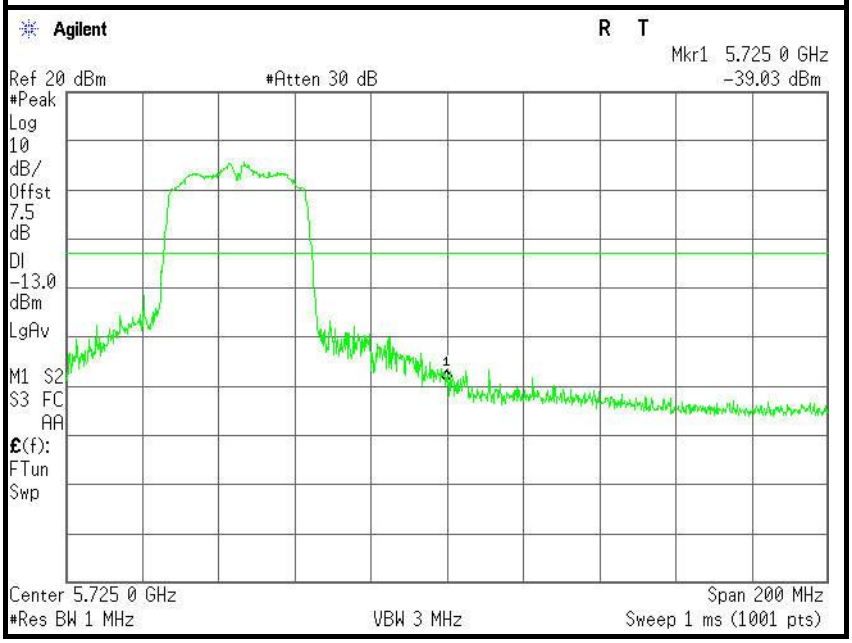
This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

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

CH Low



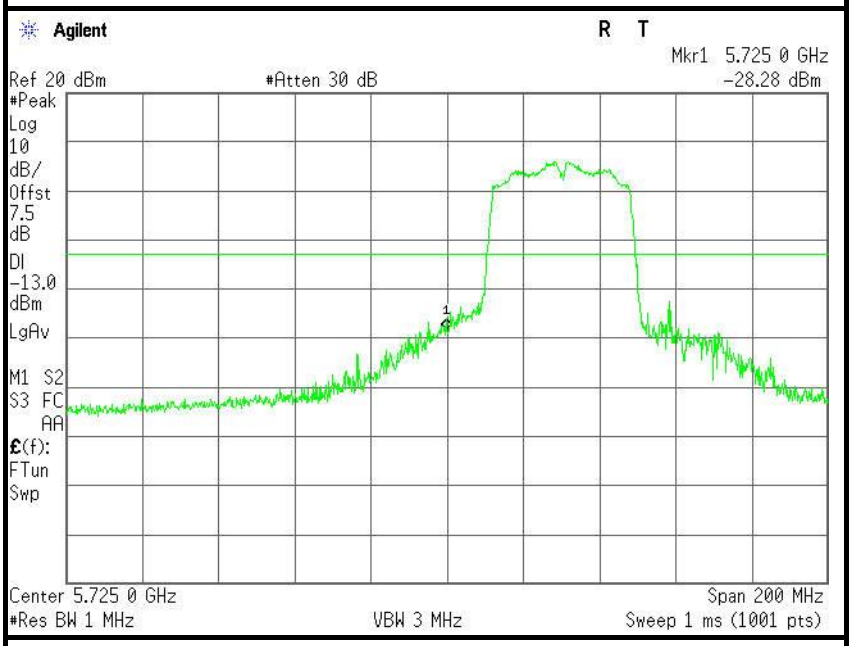
CH High



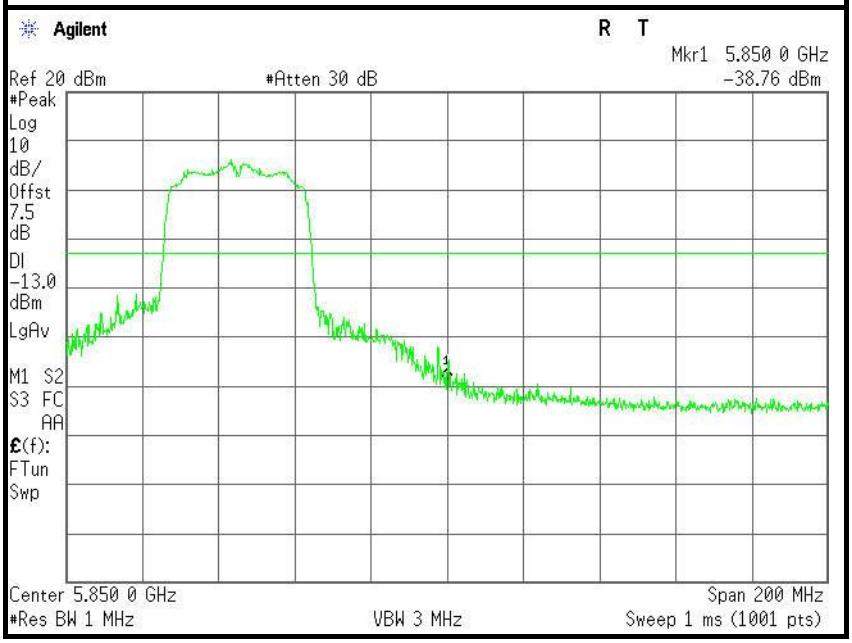
This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

CH Low



CH High



This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

6.9 POWERLINE CONDUCTED EMISSIONS

6.9.1 LIMIT

According to §15.207(a), 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.*

6.9.2 TEST INSTRUMENTS

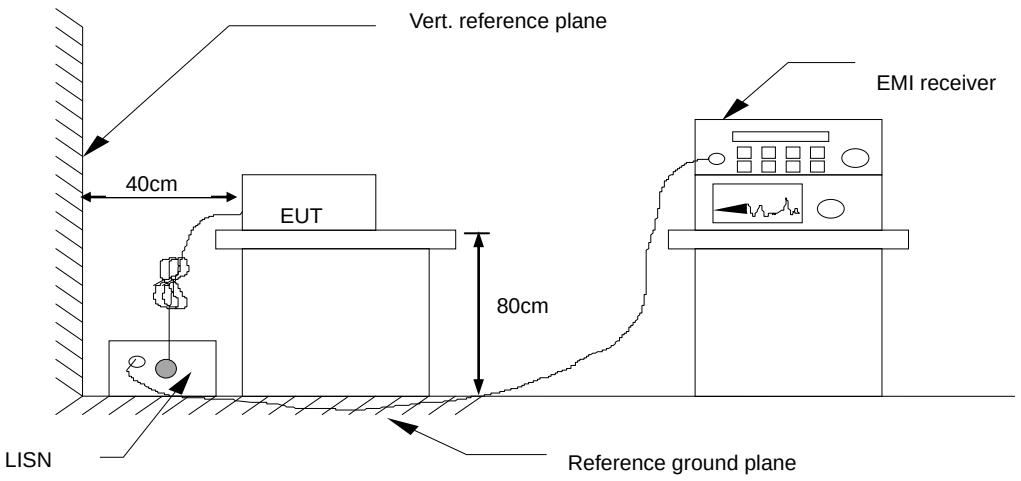
Conducted Emission Test Site					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	02/28/2015	02/27/2016
LISN(EUT)	ROHDE&SCHWARZ	ENV216	101543-WX	02/28/2015	02/27/2016
LISN	EMCO	3825/2	8901-1459	02/28/2015	02/27/2016
Temp. / Humidity Meter	VICTOR	HTC-1	N/A	02/28/2015	02/27/2016
Test S/W	FARAD	EZ-EMC/ CCS-3A1-CE			

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. N.C.R = No Calibration Request.

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

6.9.3 TEST CONFIGURATION



6.9.4 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.

6.9.5 DATA SAMPLE

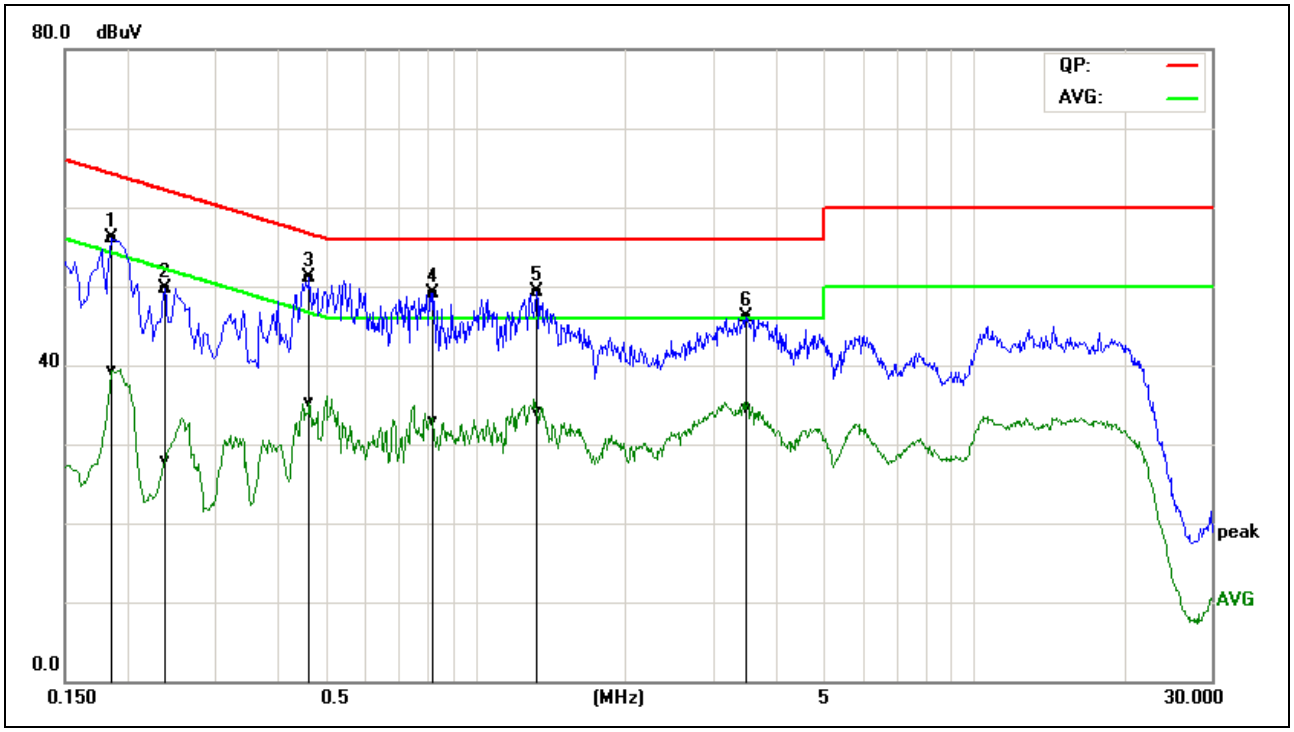
Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
X.XXXX	32.69	25.65	11.52	44.21	37.17	65.78	55.79	-21.57	-18.62	Pass

Factor = Insertion loss of LISN + Cable Loss
Result = Quasi-peak Reading/ Average Reading + Factor
Limit = Limit stated in standard
Margin = Result (dBuV) – Limit (dBuV)

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

6.9.6 TEST RESULTS

Model No.	PPX4935	**RBW,VBW**	9 kHz
Environmental Conditions	22°C, 45% RH	**Test Mode**	Mode 1
Tested by	Eve Wang	**Line**	L1
Test Date	January 10, 2016		



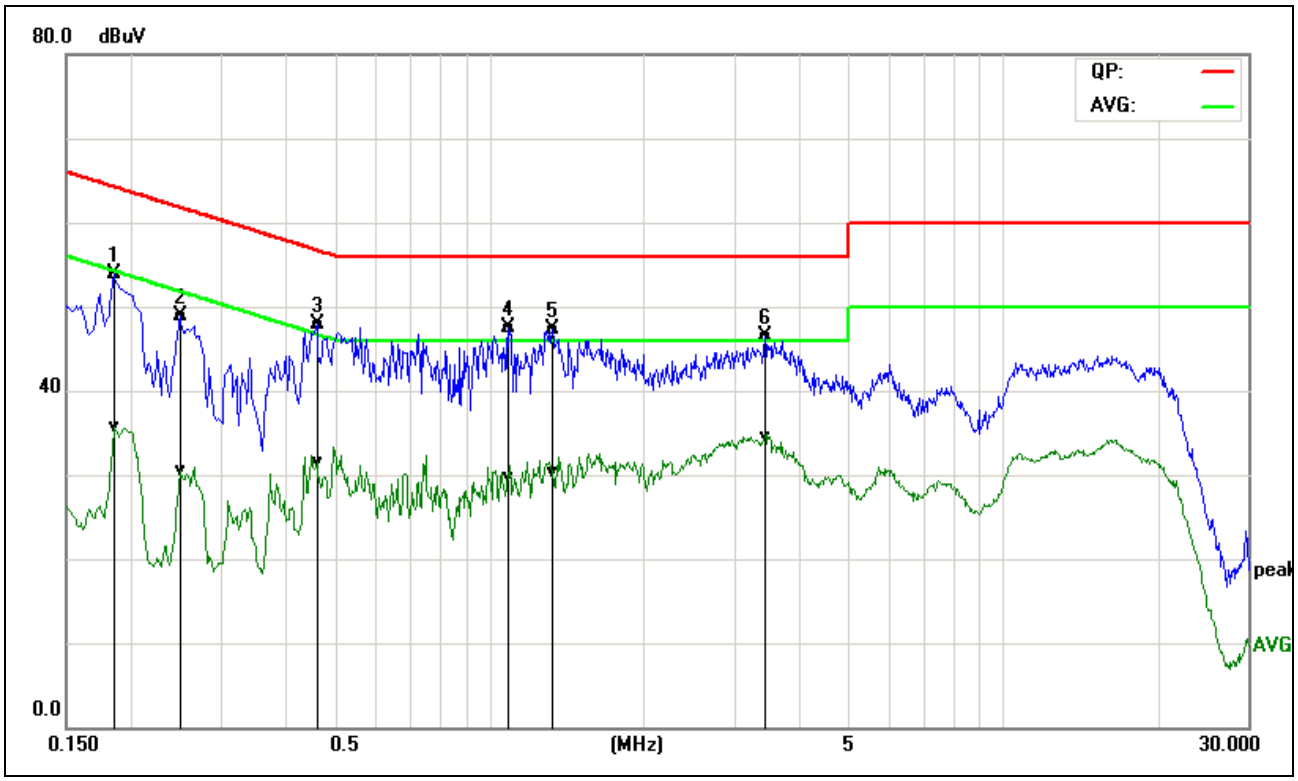
Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
0.1860	46.52	29.69	9.66	56.18	39.35	64.21	54.21	-8.03	-14.86	Pass
0.2380	40.07	18.18	9.69	49.76	27.87	62.16	52.17	-12.40	-24.30	Pass
0.4660	41.42	25.53	9.68	51.10	35.21	56.58	46.58	-5.48	-11.37	Pass
0.8260	39.40	23.16	9.76	49.16	32.92	56.00	46.00	-6.84	-13.08	Pass
1.3260	39.54	24.42	9.72	49.26	34.14	56.00	46.00	-6.74	-11.86	Pass
3.5020	36.31	24.88	9.70	46.01	34.58	56.00	46.00	-9.99	-11.42	Pass

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)*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Model No.	PPX4935	**RBW,VBW**	9 kHz
Environmental Conditions	22°C, 45% RH	**Test Mode**	Mode 1
Tested by	Eve Wang	**Line**	L2
Test Date	January 10, 2016		



Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
0.1860	44.13	25.99	9.79	53.92	35.78	64.21	54.21	-10.29	-18.43	Pass
0.2500	39.11	20.73	9.77	48.88	30.50	61.75	51.76	-12.87	-21.26	Pass
0.4620	38.30	21.79	9.69	47.99	31.48	56.66	46.66	-8.67	-15.18	Pass
1.0900	37.65	19.85	9.80	47.45	29.65	56.00	46.00	-8.55	-16.35	Pass
1.3260	37.59	20.43	9.79	47.38	30.22	56.00	46.00	-8.62	-15.78	Pass
3.4500	36.78	24.68	9.75	46.53	34.43	56.00	46.00	-9.47	-11.57	Pass

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. *L2 = Line Two (Neutral Line)*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

6.10 FREQUENCY STABILITY

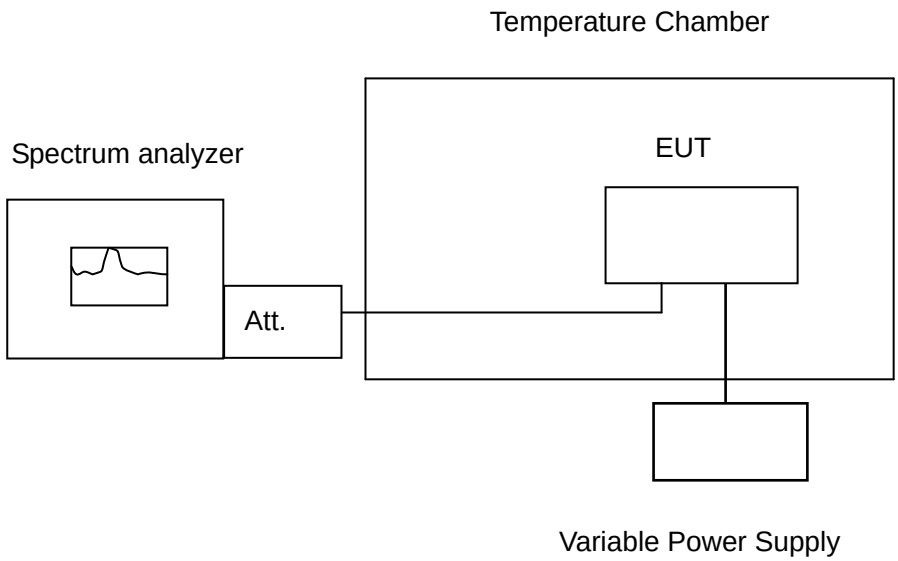
6.10.1 LIMIT

According to §15.407(g), 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.

6.10.2 TEST INSTRUMENTS

Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	E4446A	US44300399	02/28/2015	02/27/2016
DC Power Supply	DAZHENG	PS-605D	20018978	N.C.R	N.C.R
AC POWER SOUCE	UMART	HPA1010	N/A	N.C.R	N.C.R
Power Meter	Anritsu	ML2495A	1204003	02/28/2015	02/27/2016
Power Sensor	Anritsu	MA2411B	1126150	02/28/2015	02/27/2016
Temperature Chamber	TERCHY	MHG-800N	E21104	11/18/2015	11/17/2016
Temp. / Humidity Meter	Anymetre	JR913	N/A	02/28/2015	02/27/2016

6.10.3 TEST CONFIGURATION



Remark: *Measurement setup for testing on Antenna connector*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

6.10.4 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.

6.10.5 TEST RESULTS

No non-compliance noted.

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Data

IEEE 802.11a MHz mode / 5180 ~ 5240MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5179.992576	5150-5250	PASS
40	120	5179.990651	5150-5250	PASS
30	120	5179.967011	5150-5250	PASS
20	120	5179.981936	5150-5250	PASS
10	120	5179.965744	5150-5250	PASS
0	120	5179.959414	5150-5250	PASS
-10	120	5179.966449	5150-5250	PASS
-20	120	5179.987849	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5179.970889	5150-5250	PASS
	120	5179.981936	5150-5250	PASS
	132	5179.999946	5150-5250	PASS

IEEE 802.11a MHz mode / 5180 ~ 5240MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5239.975641	5150-5250	PASS
40	120	5239.960037	5150-5250	PASS
30	120	5239.968340	5150-5250	PASS
20	120	5239.981487	5150-5250	PASS
10	120	5239.993786	5150-5250	PASS
0	120	5239.996003	5150-5250	PASS
-10	120	5239.982238	5150-5250	PASS
-20	120	5239.960434	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5239.975134	5150-5250	PASS
	120	5239.981487	5150-5250	PASS
	132	5239.966125	5150-5250	PASS

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11a mode / 5260 ~ 5320MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5259.988291	5250-5350	PASS
40	120	5259.951082	5250-5350	PASS
30	120	5259.996486	5250-5350	PASS
20	120	5259.981465	5250-5350	PASS
10	120	5259.991999	5250-5350	PASS
0	120	5259.985384	5250-5350	PASS
-10	120	5259.989423	5250-5350	PASS
-20	120	5259.971795	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5259.962854	5250-5350	PASS
	120	5259.981465	5250-5350	PASS
	132	5259.993803	5250-5350	PASS

IEEE 802.11a mode / 5260 ~ 5320MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5319.956293	5250-5350	PASS
40	120	5319.959188	5250-5350	PASS
30	120	5319.985694	5250-5350	PASS
20	120	5319.981489	5250-5350	PASS
10	120	5319.998477	5250-5350	PASS
0	120	5319.965642	5250-5350	PASS
-10	120	5319.961388	5250-5350	PASS
-20	120	5319.960287	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5319.961803	5250-5350	PASS
	120	5319.981489	5250-5350	PASS
	132	5319.993553	5250-5350	PASS

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11a mode / 5500 ~ 5700MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5499.959743	5475-5725	PASS
40	120	5499.994229	5475-5725	PASS
30	120	5499.963750	5475-5725	PASS
20	120	5499.981458	5475-5725	PASS
10	120	5499.974209	5475-5725	PASS
0	120	5499.968239	5475-5725	PASS
-10	120	5499.954825	5475-5725	PASS
-20	120	5499.973215	5475-5725	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5499.981756	5475-5725	PASS
	120	5499.981458	5475-5725	PASS
	132	5499.955099	5475-5725	PASS

IEEE 802.11a mode / 5500 ~ 5700MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5699.977740	5475-5725	PASS
40	120	5699.973051	5475-5725	PASS
30	120	5699.998048	5475-5725	PASS
20	120	5699.978938	5475-5725	PASS
10	120	5699.971566	5475-5725	PASS
0	120	5699.997078	5475-5725	PASS
-10	120	5699.961544	5475-5725	PASS
-20	120	5699.995966	5475-5725	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5699.984364	5475-5725	PASS
	120	5699.978938	5475-5725	PASS
	132	5699.994377	5475-5725	PASS

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11a mode / 5745 ~ 5825MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5744.949948	5725-5850	PASS
40	120	5744.950724	5725-5850	PASS
30	120	5744.975421	5725-5850	PASS
20	120	5744.979454	5725-5850	PASS
10	120	5744.961767	5725-5850	PASS
0	120	5744.992984	5725-5850	PASS
-10	120	5744.978751	5725-5850	PASS
-20	120	5744.980313	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5744.978267	5725-5850	PASS
	120	5744.979454	5725-5850	PASS
	132	5744.992100	5725-5850	PASS

IEEE 802.11a mode / 5745 ~ 5825MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5824.986647	5725-5850	PASS
40	120	5824.964766	5725-5850	PASS
30	120	5824.984102	5725-5850	PASS
20	120	5824.979369	5725-5850	PASS
10	120	5824.960761	5725-5850	PASS
0	120	5824.964427	5725-5850	PASS
-10	120	5824.961331	5725-5850	PASS
-20	120	5824.954862	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5824.975631	5725-5850	PASS
	120	5824.979369	5725-5850	PASS
	132	5824.958029	5725-5850	PASS

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5179.961844	5150-5250	PASS
40	120	5179.980494	5150-5250	PASS
30	120	5179.991739	5150-5250	PASS
20	120	5179.981936	5150-5250	PASS
10	120	5179.976317	5150-5250	PASS
0	120	5179.977083	5150-5250	PASS
-10	120	5179.966670	5150-5250	PASS
-20	120	5179.952898	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5179.987749	5150-5250	PASS
	120	5179.981936	5150-5250	PASS
	132	5179.992842	5150-5250	PASS

IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5239.974350	5150-5250	PASS
40	120	5239.993886	5150-5250	PASS
30	120	5239.954951	5150-5250	PASS
20	120	5239.981487	5150-5250	PASS
10	120	5239.986444	5150-5250	PASS
0	120	5239.956759	5150-5250	PASS
-10	120	5239.986356	5150-5250	PASS
-20	120	5239.981859	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5239.957315	5150-5250	PASS
	120	5239.981487	5150-5250	PASS
	132	5239.957164	5150-5250	PASS

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 20 MHz mode / 5260 ~ 5320MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5259.957239	5250-5350	PASS
40	120	5259.967579	5250-5350	PASS
30	120	5259.953757	5250-5350	PASS
20	120	5259.981465	5250-5350	PASS
10	120	5259.976391	5250-5350	PASS
0	120	5259.987402	5250-5350	PASS
-10	120	5259.971066	5250-5350	PASS
-20	120	5259.990768	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5259.990636	5250-5350	PASS
	120	5259.981465	5250-5350	PASS
	132	5259.962258	5250-5350	PASS

IEEE 802.11n HT 20 MHz mode / 5260 ~ 5320MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5319.962304	5250-5350	PASS
40	120	5319.957437	5250-5350	PASS
30	120	5319.992878	5250-5350	PASS
20	120	5319.981489	5250-5350	PASS
10	120	5319.963319	5250-5350	PASS
0	120	5319.966452	5250-5350	PASS
-10	120	5319.955504	5250-5350	PASS
-20	120	5319.950997	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5319.998426	5250-5350	PASS
	120	5319.981489	5250-5350	PASS
	132	5319.978043	5250-5350	PASS

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5499.977837	5475-5725	PASS
40	120	5499.969081	5475-5725	PASS
30	120	5499.968233	5475-5725	PASS
20	120	5499.981458	5475-5725	PASS
10	120	5499.985066	5475-5725	PASS
0	120	5499.971113	5475-5725	PASS
-10	120	5499.953217	5475-5725	PASS
-20	120	5499.981441	5475-5725	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5499.967170	5475-5725	PASS
	120	5499.981458	5475-5725	PASS
	132	5499.994336	5475-5725	PASS

IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5699.970008	5475-5725	PASS
40	120	5699.972522	5475-5725	PASS
30	120	5699.987459	5475-5725	PASS
20	120	5699.978938	5475-5725	PASS
10	120	5699.974344	5475-5725	PASS
0	120	5699.999527	5475-5725	PASS
-10	120	5699.993159	5475-5725	PASS
-20	120	5699.951463	5475-5725	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5699.958629	5475-5725	PASS
	120	5699.978938	5475-5725	PASS
	132	5699.993923	5475-5725	PASS

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5744.974192	5725-5850	PASS
40	120	5744.989948	5725-5850	PASS
30	120	5744.987066	5725-5850	PASS
20	120	5744.979454	5725-5850	PASS
10	120	5744.971118	5725-5850	PASS
0	120	5744.975832	5725-5850	PASS
-10	120	5744.970354	5725-5850	PASS
-20	120	5744.954034	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5744.994553	5725-5850	PASS
	120	5744.979454	5725-5850	PASS
	132	5744.973607	5725-5850	PASS

IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5824.985554	5725-5850	PASS
40	120	5824.974359	5725-5850	PASS
30	120	5824.950540	5725-5850	PASS
20	120	5824.979369	5725-5850	PASS
10	120	5824.954815	5725-5850	PASS
0	120	5824.970941	5725-5850	PASS
-10	120	5824.952820	5725-5850	PASS
-20	120	5824.971101	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5824.975800	5725-5850	PASS
	120	5824.979369	5725-5850	PASS
	132	5824.949152	5725-5850	PASS

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5189.984908	5150-5250	PASS
40	120	5189.966766	5150-5250	PASS
30	120	5189.984559	5150-5250	PASS
20	120	5189.981938	5150-5250	PASS
10	120	5189.958070	5150-5250	PASS
0	120	5189.978828	5150-5250	PASS
-10	120	5189.970923	5150-5250	PASS
-20	120	5189.980435	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5189.953715	5150-5250	PASS
	120	5189.981938	5150-5250	PASS
	132	5189.968267	5150-5250	PASS

IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5229.977164	5150-5250	PASS
40	120	5229.950211	5150-5250	PASS
30	120	5229.991763	5150-5250	PASS
20	120	5229.981439	5150-5250	PASS
10	120	5229.977642	5150-5250	PASS
0	120	5229.998950	5150-5250	PASS
-10	120	5229.980936	5150-5250	PASS
-20	120	5229.956171	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5229.987495	5150-5250	PASS
	120	5229.981439	5150-5250	PASS
	132	5229.987380	5150-5250	PASS

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5269.994867	5250-5350	PASS
40	120	5269.988160	5250-5350	PASS
30	120	5269.969336	5250-5350	PASS
20	120	5269.981439	5250-5350	PASS
10	120	5269.968971	5250-5350	PASS
0	120	5269.998975	5250-5350	PASS
-10	120	5269.987662	5250-5350	PASS
-20	120	5269.968567	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5269.981233	5250-5350	PASS
	120	5269.981439	5250-5350	PASS
	132	5269.995250	5250-5350	PASS

IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5309.983874	5250-5350	PASS
40	120	5309.971346	5250-5350	PASS
30	120	5309.965964	5250-5350	PASS
20	120	5309.981472	5250-5350	PASS
10	120	5309.997656	5250-5350	PASS
0	120	5309.971895	5250-5350	PASS
-10	120	5309.951737	5250-5350	PASS
-20	120	5309.950074	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5309.962205	5250-5350	PASS
	120	5309.981472	5250-5350	PASS
	132	5309.965403	5250-5350	PASS

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5509.987356	5475-5725	PASS
40	120	5509.970277	5475-5725	PASS
30	120	5509.958785	5475-5725	PASS
20	120	5509.979652	5475-5725	PASS
10	120	5509.987611	5475-5725	PASS
0	120	5509.958109	5475-5725	PASS
-10	120	5509.998912	5475-5725	PASS
-20	120	5509.982573	5475-5725	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5509.983951	5475-5725	PASS
	120	5509.979652	5475-5725	PASS
	132	5509.983805	5475-5725	PASS

IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5669.959201	5475-5725	PASS
40	120	5669.968474	5475-5725	PASS
30	120	5669.977736	5475-5725	PASS
20	120	5669.979564	5475-5725	PASS
10	120	5669.966567	5475-5725	PASS
0	120	5669.975378	5475-5725	PASS
-10	120	5669.970269	5475-5725	PASS
-20	120	5669.967595	5475-5725	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5669.963703	5475-5725	PASS
	120	5669.979564	5475-5725	PASS
	132	5669.957701	5475-5725	PASS

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5754.966233	5725-5850	PASS
40	120	5754.985686	5725-5850	PASS
30	120	5754.994841	5725-5850	PASS
20	120	5754.979364	5725-5850	PASS
10	120	5754.949548	5725-5850	PASS
0	120	5754.966301	5725-5850	PASS
-10	120	5754.993361	5725-5850	PASS
-20	120	5754.950842	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5754.952458	5725-5850	PASS
	120	5754.979364	5725-5850	PASS
	132	5754.982744	5725-5850	PASS

IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5794.949607	5725-5850	PASS
40	120	5794.956048	5725-5850	PASS
30	120	5794.996796	5725-5850	PASS
20	120	5794.979459	5725-5850	PASS
10	120	5794.987232	5725-5850	PASS
0	120	5794.957758	5725-5850	PASS
-10	120	5794.990291	5725-5850	PASS
-20	120	5794.955986	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5794.950103	5725-5850	PASS
	120	5794.979459	5725-5850	PASS
	132	5794.982233	5725-5850	PASS

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.