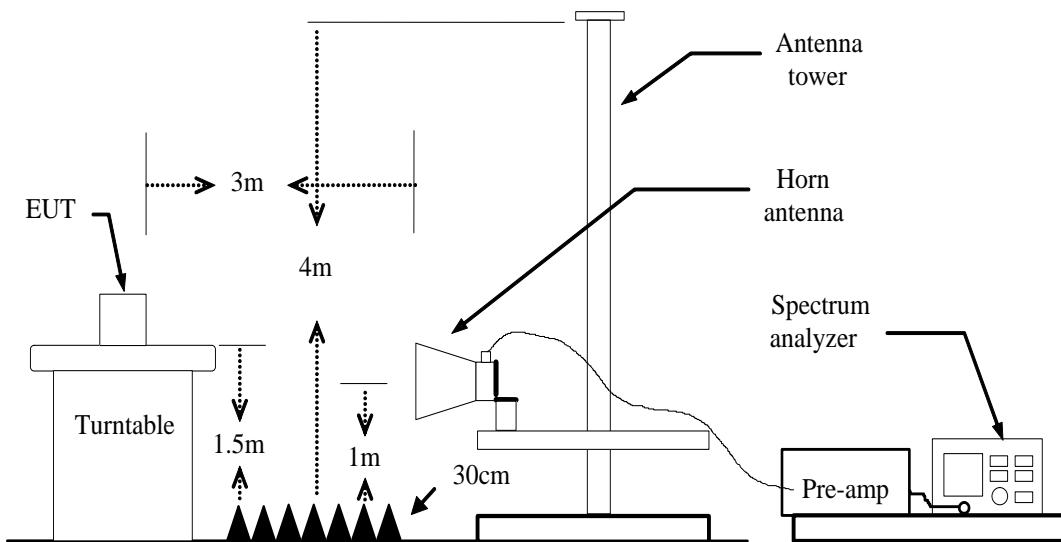


6.5.3 TEST CONFIGURATION



6.5.4 TEST PROCEDURE

1. The EUT is placed on a turntable, which is 1.5m above the 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 emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=1 / VBW=3MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO / Detector=Peak
5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.



6.5.5 TEST RESULT

IEEE 802.11a mode / 5500 ~ 5700MHz

1. Operating Frequency: 5500-5700MHz
2. CH Low: 5500MHz, CH High: 5700MHz
3. 26dB bandwidth: CH Low: 19.592MHz, CH High: 19.098MHz
4. Frequency Range: 5490.204MHz, 5709.549MHz

IEEE 802.11a mode / 5745 ~ 5825MHz

1. Operating Frequency: 5745-5825MHz
2. CH Low: 5745MHz, CH High: 5825MHz
3. 26dB bandwidth: CH Low: 19.125MHz, CH High: 19.348MHz
4. Frequency Range: 5735.438MHz, 5834.674MHz

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

1. Operating Frequency: 5500-5700MHz
2. CH Low: 5500MHz, CH High: 5700MHz
3. 26dB bandwidth: CH Low: 19.602MHz, CH High: 19.609MHz
4. Frequency Range: 5490.199MHz, 5709.805MHz

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

1. Operating Frequency: 5745-5825MHz
2. CH Low: 5745MHz, CH High: 5825MHz
3. 26dB bandwidth: CH Low: 19.590MHz, CH High: 19.596MHz
4. Frequency Range: 5735.205MHz, 5834.798MHz

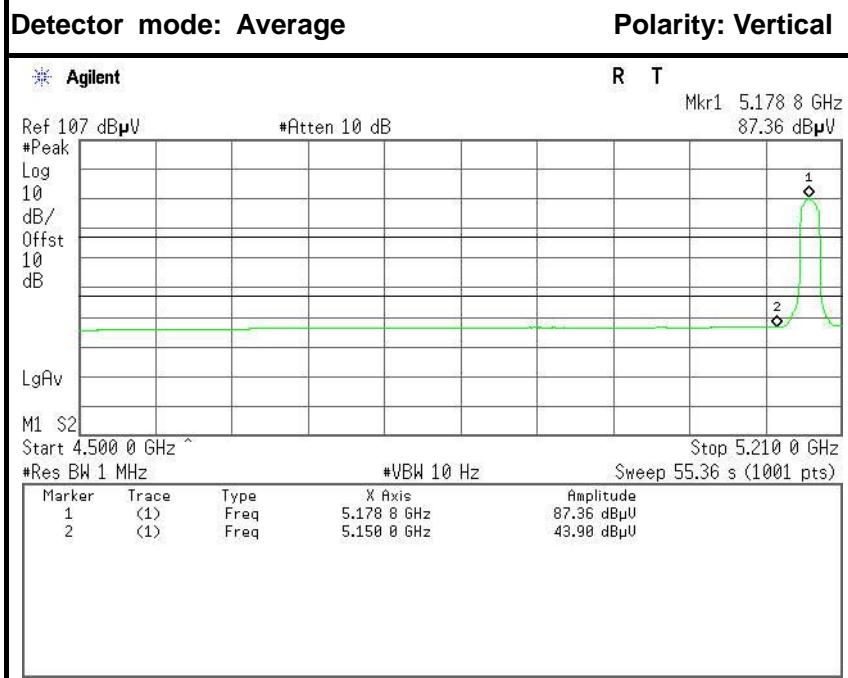
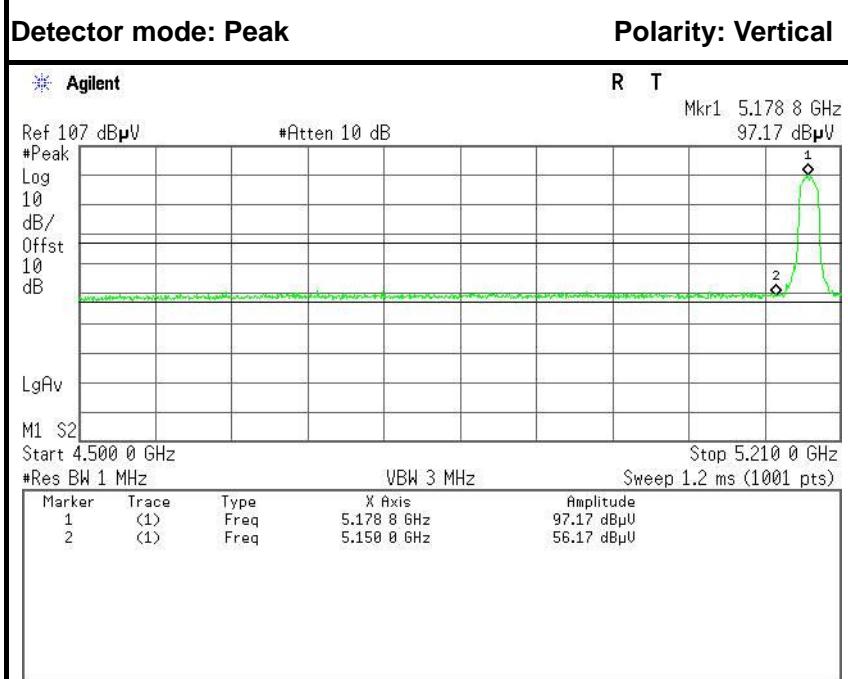
IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz

1. Operating Frequency: 5510-5670MHz
2. CH Low: 5510MHz, CH High: 5670MHz
3. 26dB bandwidth: CH Low: 38.890MHz, CH High: 38.912MHz
4. Frequency Range: 5490.555MHz, 5689.456MHz

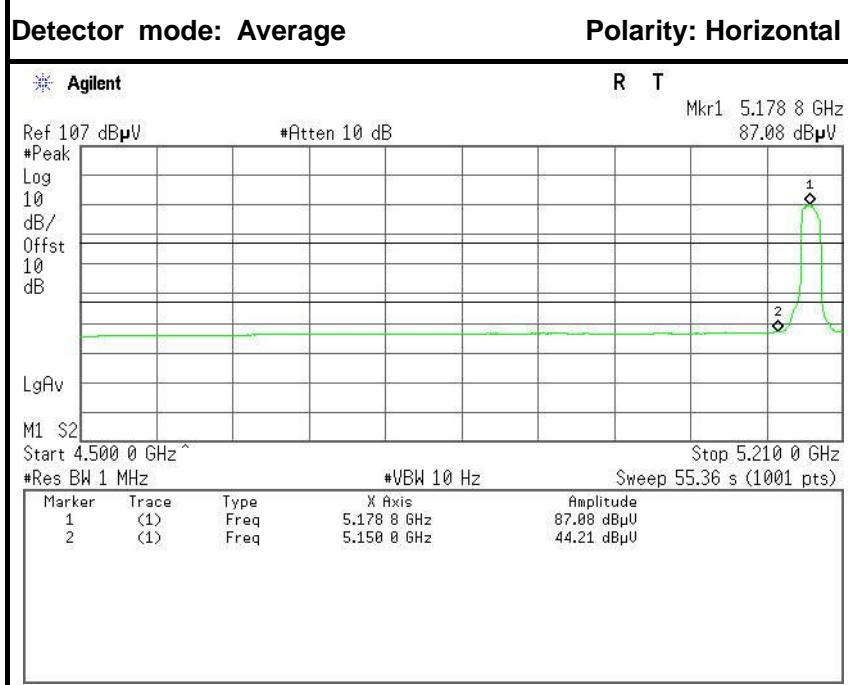
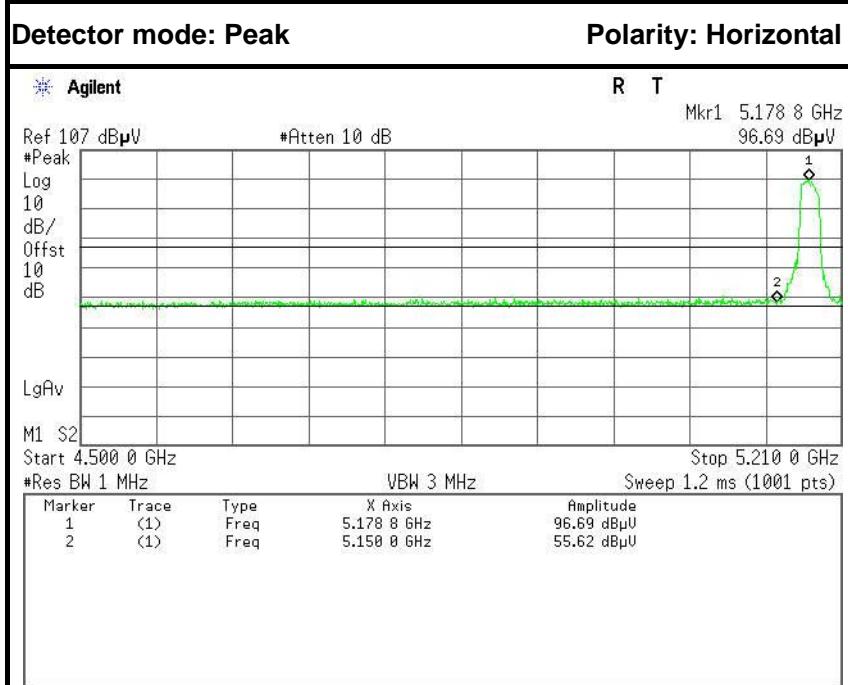
IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

1. Operating Frequency: 5755-5795MHz
2. CH Low: 5755MHz, CH High: 5795MHz
3. 26dB bandwidth: CH Low: 38.759MHz, CH High: 38.761MHz
4. Frequency Range: 5735.621MHz, 5814.381MHz

Because the mentioned conditions, the test is not applicable.

**Test Plot****IEEE 802.11a mode / 5180MHz**

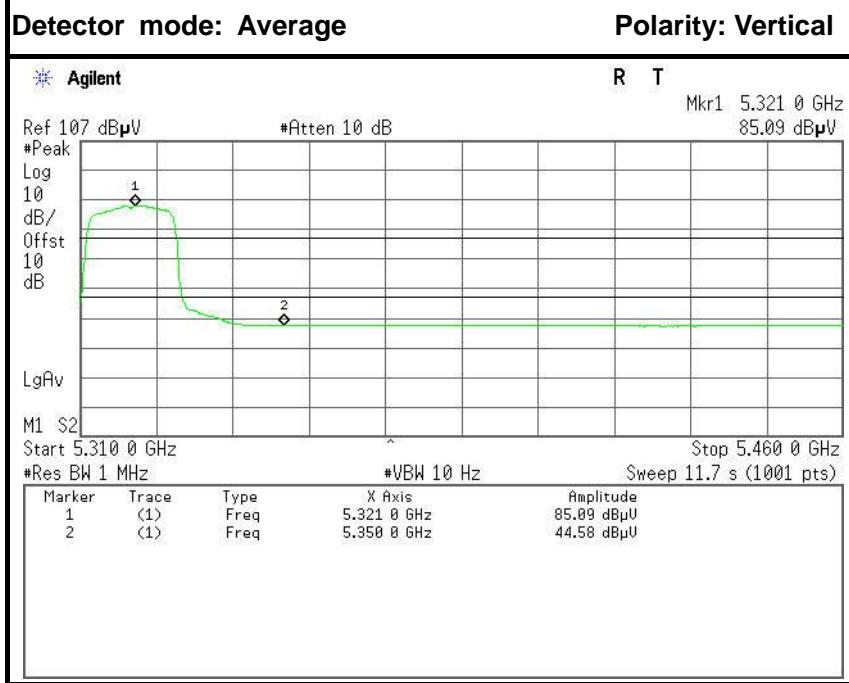
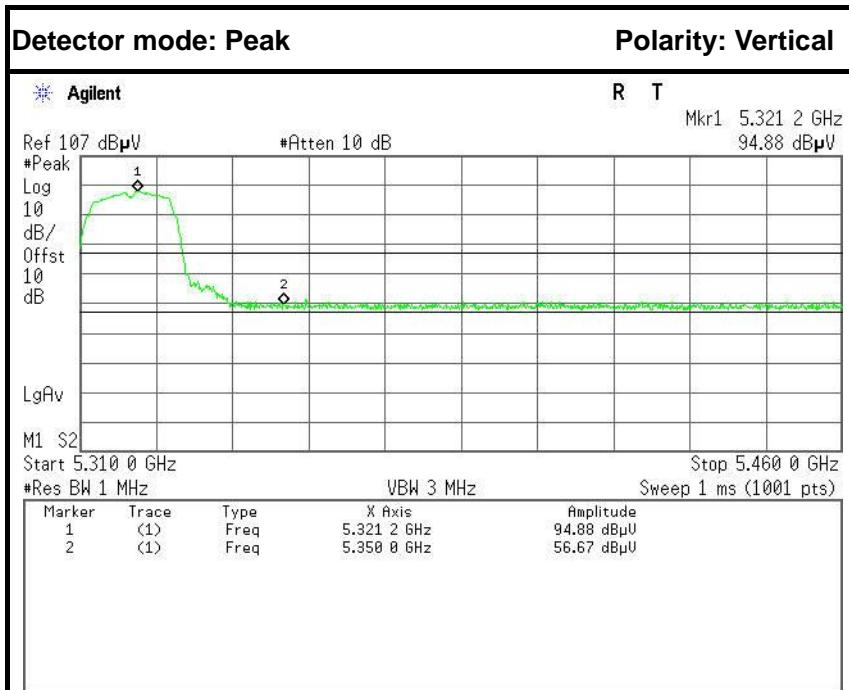
No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Antenna Pole
1	5150.0000	49.57	-6.60	56.17	74.00	-17.83	Peak	Vertical
2	5150.0000	37.38	-6.60	43.98	54.00	-10.02	Average	Vertical



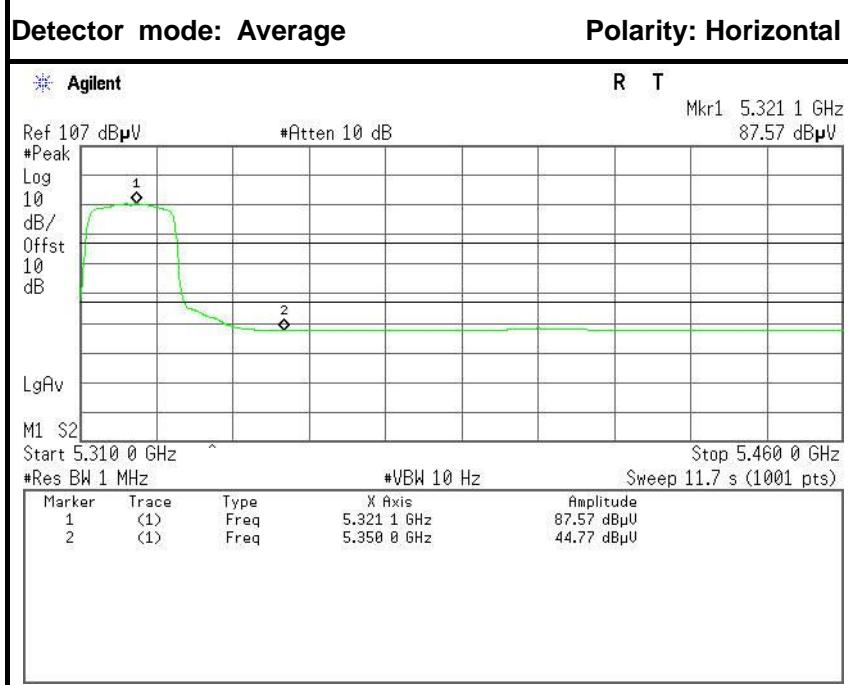
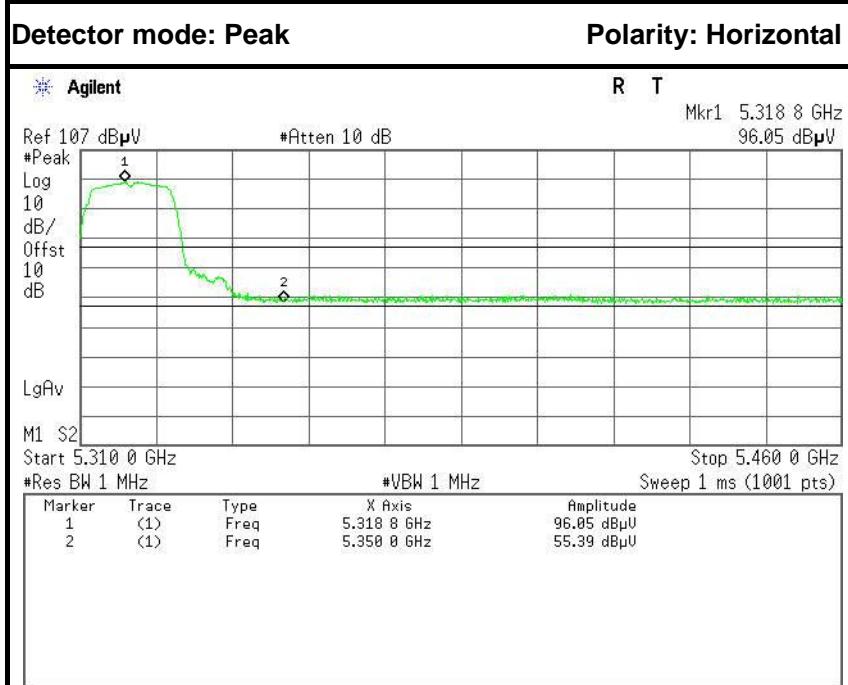
No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Antenna Pole
1	5150.0000	49.02	-6.60	55.62	74.00	-18.38	Peak	Horizontal
2	5150.0000	37.61	-6.60	44.21	54.00	-9.79	Average	Horizontal



IEEE 802.11a mode / 5320MHz



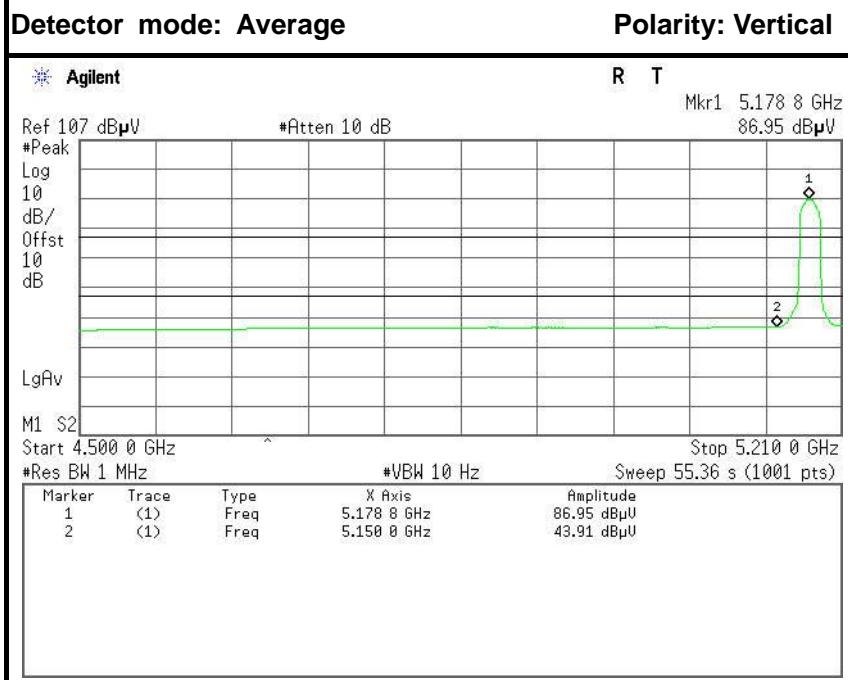
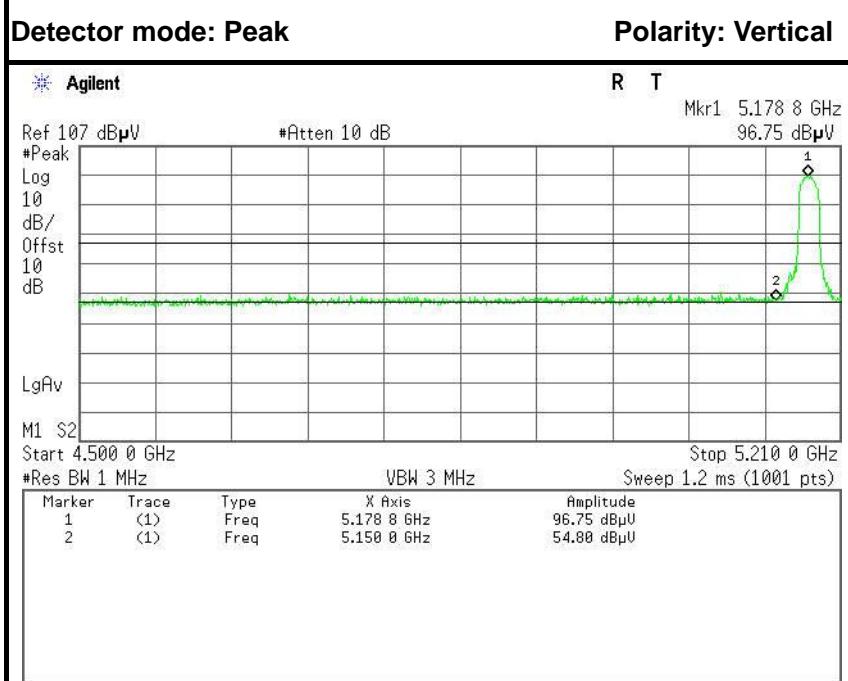
No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Antenna Pole
1	5350.0000	50.07	-6.60	56.67	74.00	-17.33	Peak	Vertical
2	5350.0000	37.98	-6.60	44.58	54.00	-9.42	Average	Vertical



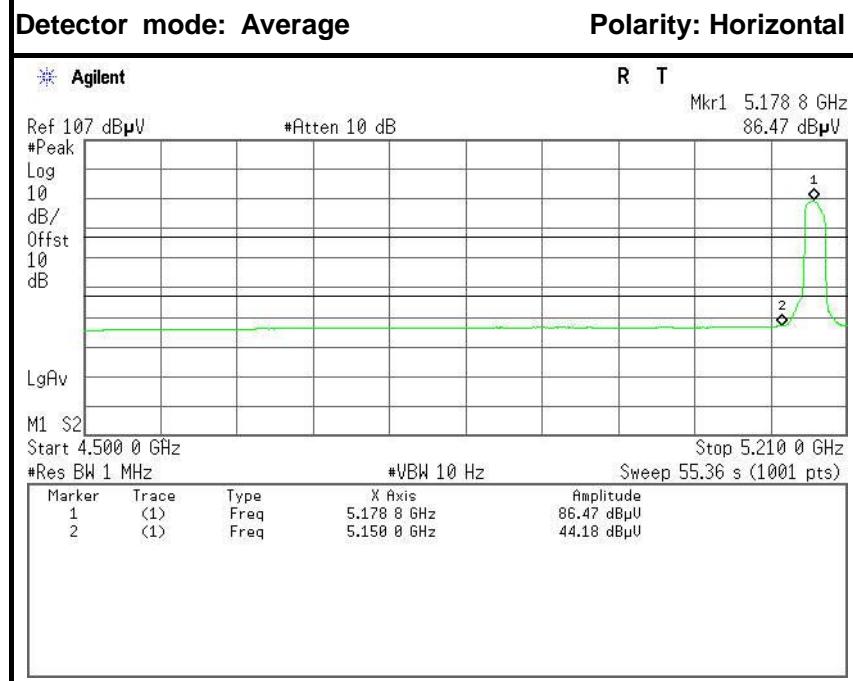
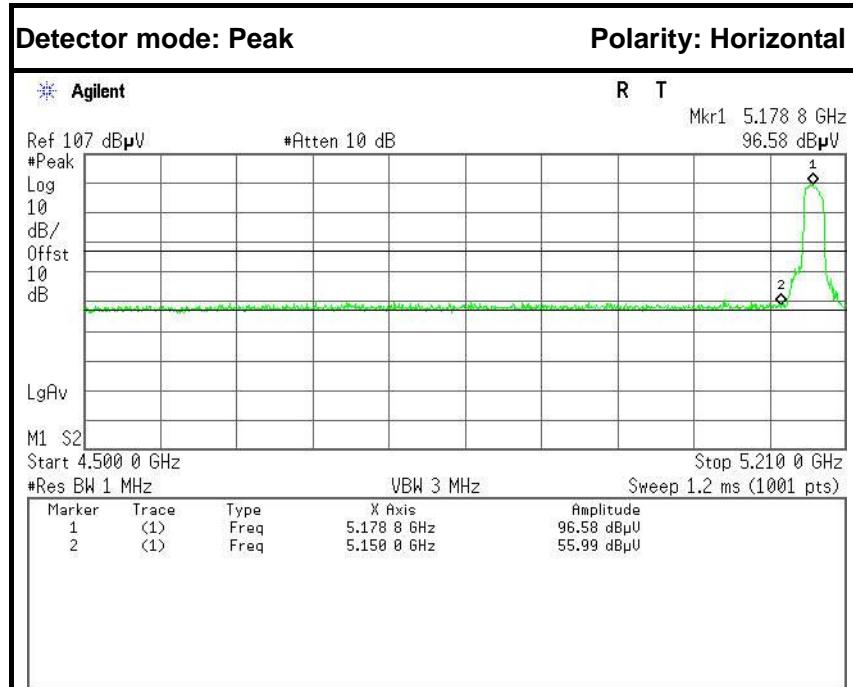
No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Antenna Pole
1	5350.0000	48.79	-6.60	55.39	74.00	-18.61	Peak	Horizontal
2	5350.0000	38.17	-6.60	44.77	54.00	-9.23	Average	Horizontal



IEEE 802.11n HT 20 MHz mode / 5180 MHz



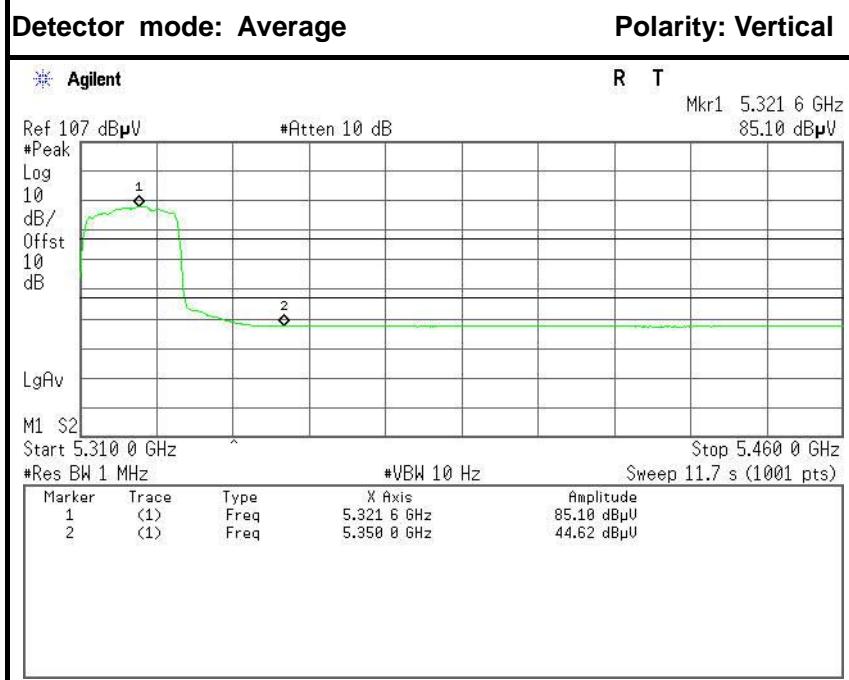
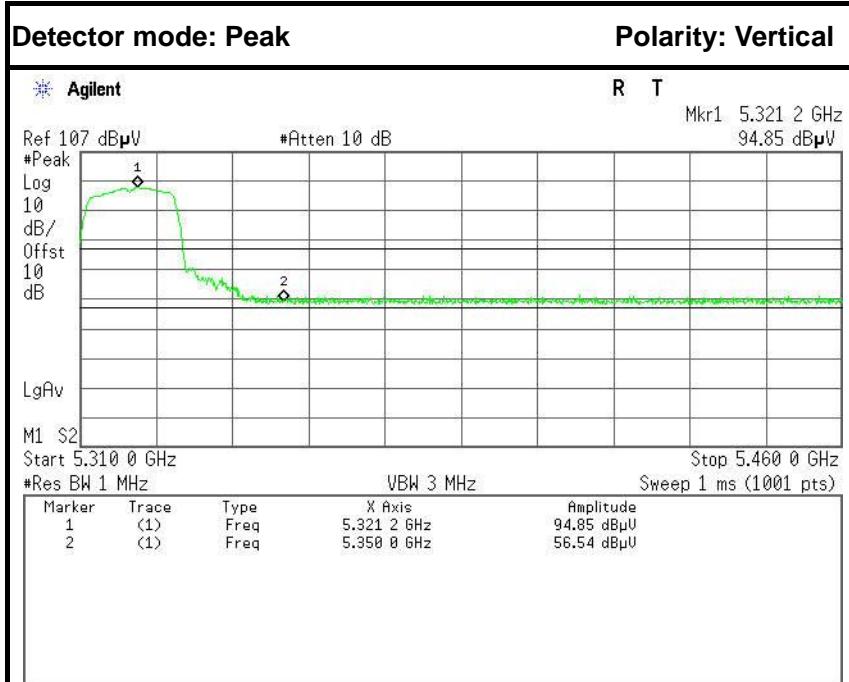
No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Antenna Pole
1	5150.0000	48.20	-6.60	54.80	74.00	-19.20	Peak	Vertical
2	5150.0000	37.31	-6.60	43.91	54.00	-10.09	Average	Vertical



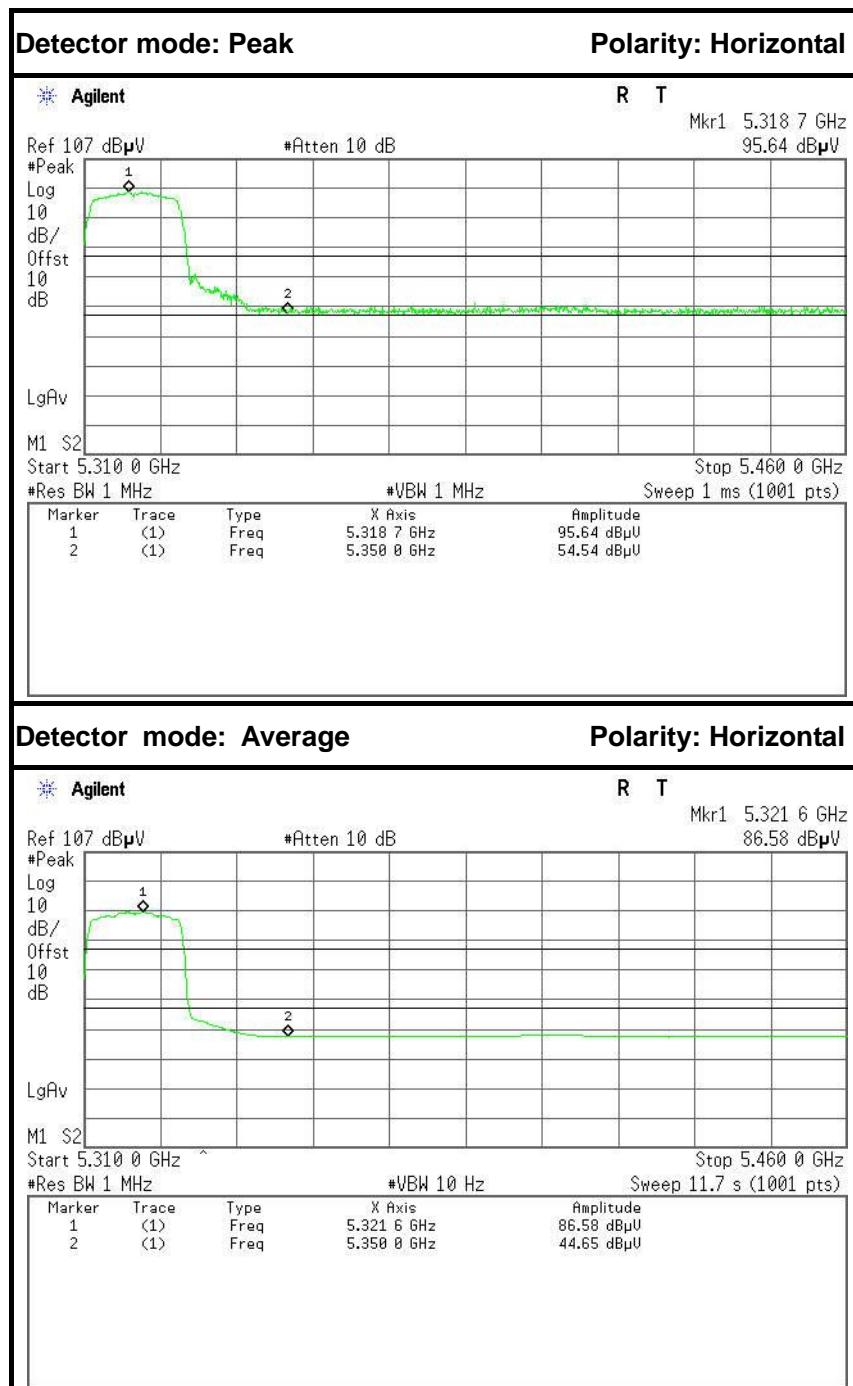
No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Antenna Pole
1	5150.0000	49.39	-6.60	55.99	74.00	-18.01	Peak	Horizontal
2	5150.0000	37.58	-6.60	44.18	54.00	-9.82	Average	Horizontal



IEEE 802.11n HT 20 MHz mode / 5320 MHz



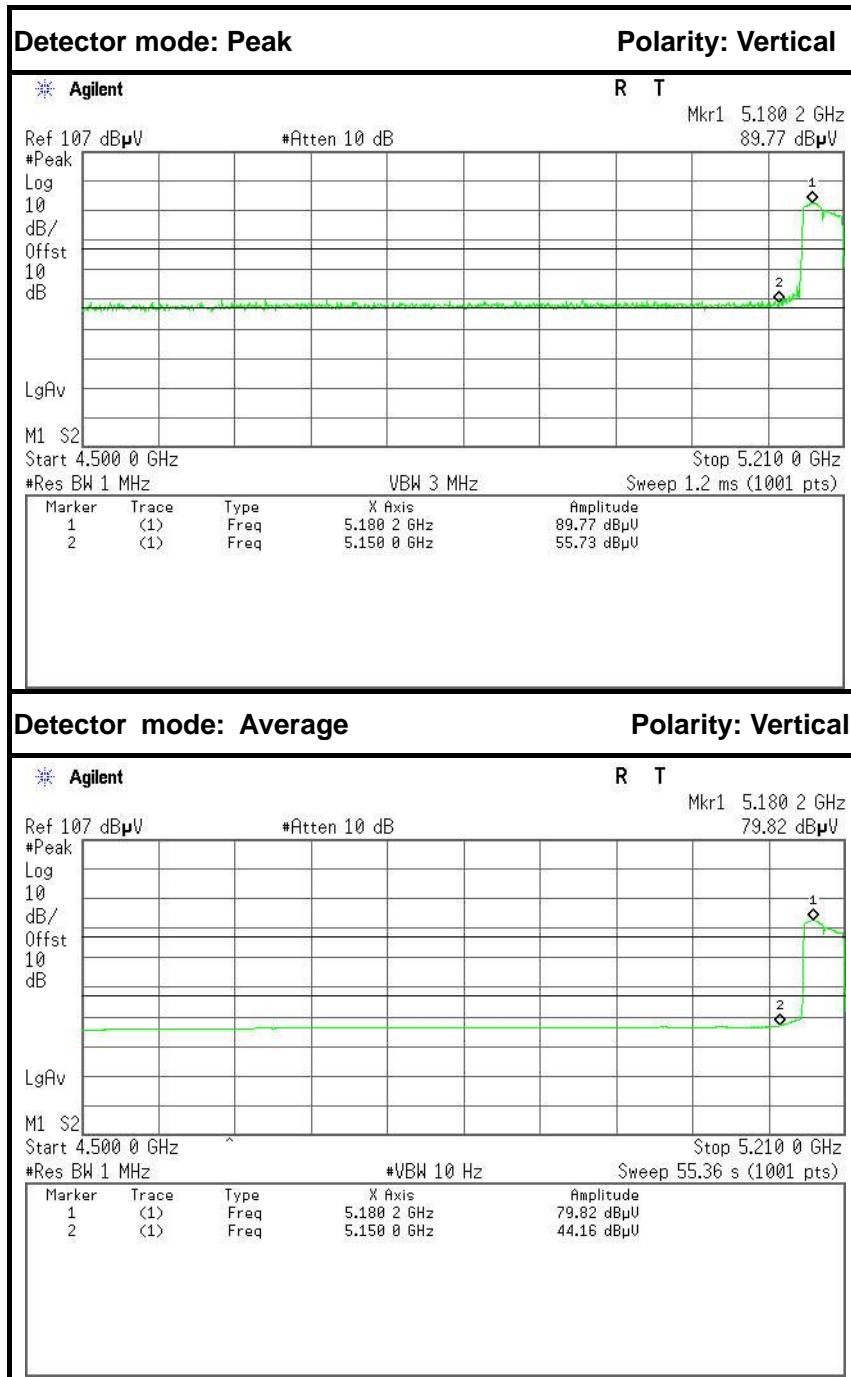
No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Antenna Pole
1	5350.0000	49.94	-6.60	56.54	74.00	-17.46	Peak	Vertical
2	5350.0000	38.02	-6.60	44.62	54.00	-9.38	Average	Vertical



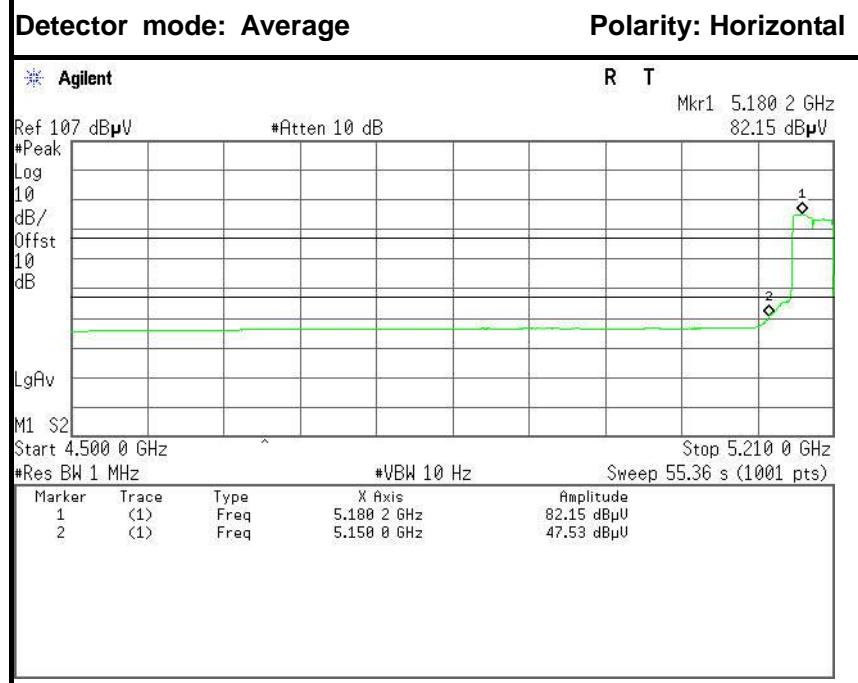
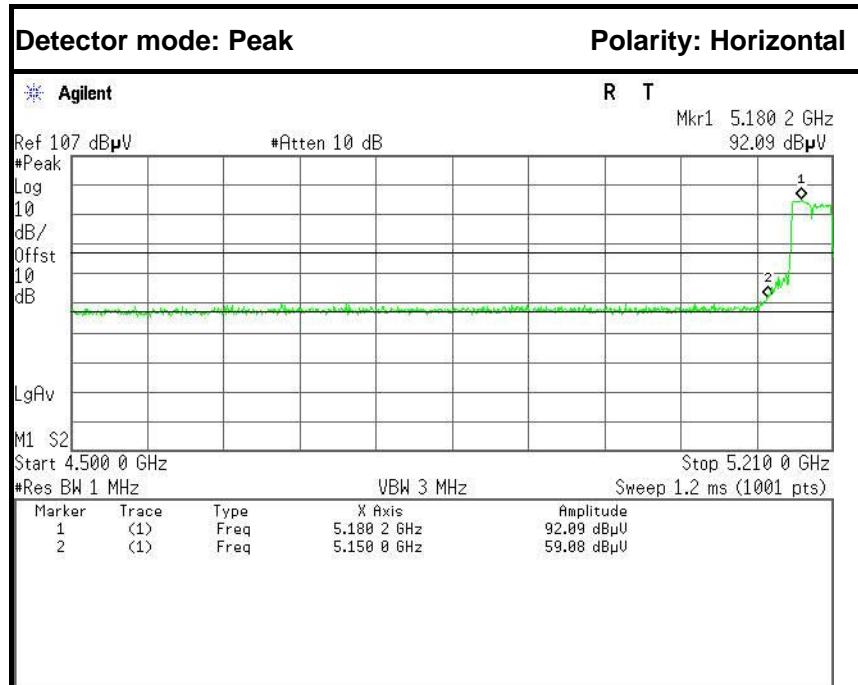
No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Antenna Pole
1	5350.0000	47.94	-6.60	54.54	74.00	-19.46	Peak	Horizontal
2	5350.0000	38.05	-6.60	44.65	54.00	-9.35	Average	Horizontal



IEEE 802.11n HT 40 MHz mode / 5190 MHz



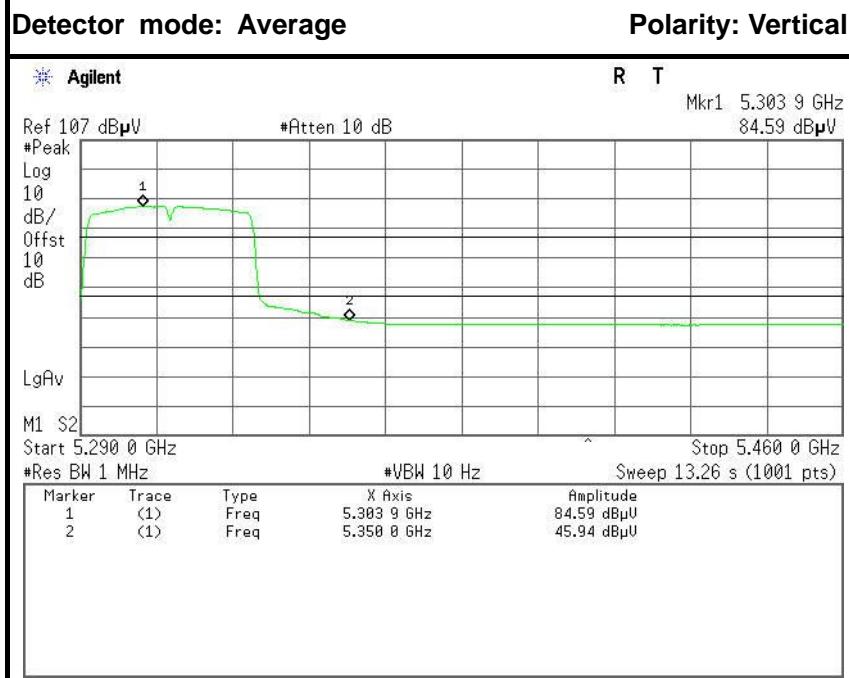
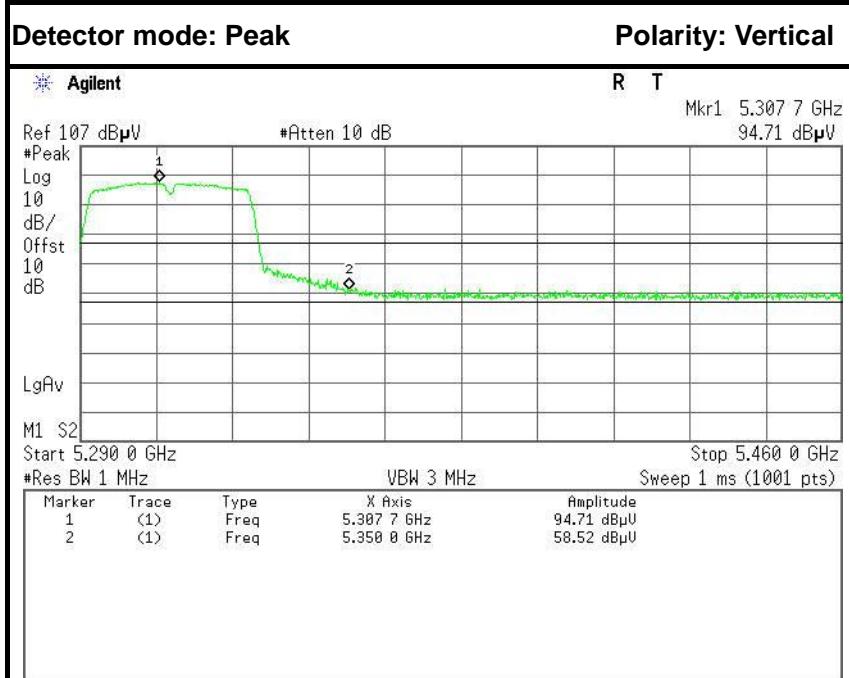
No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Antenna Pole
1	5150.0000	49.13	-6.60	55.73	74.00	-18.27	Peak	Vertical
2	5150.0000	37.56	-6.60	44.16	54.00	-9.84	Average	Vertical



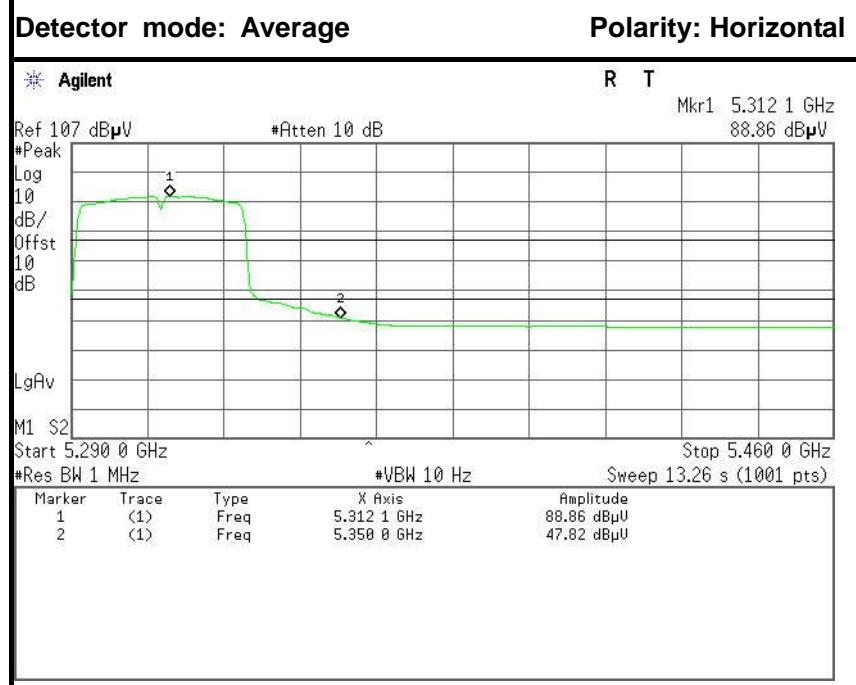
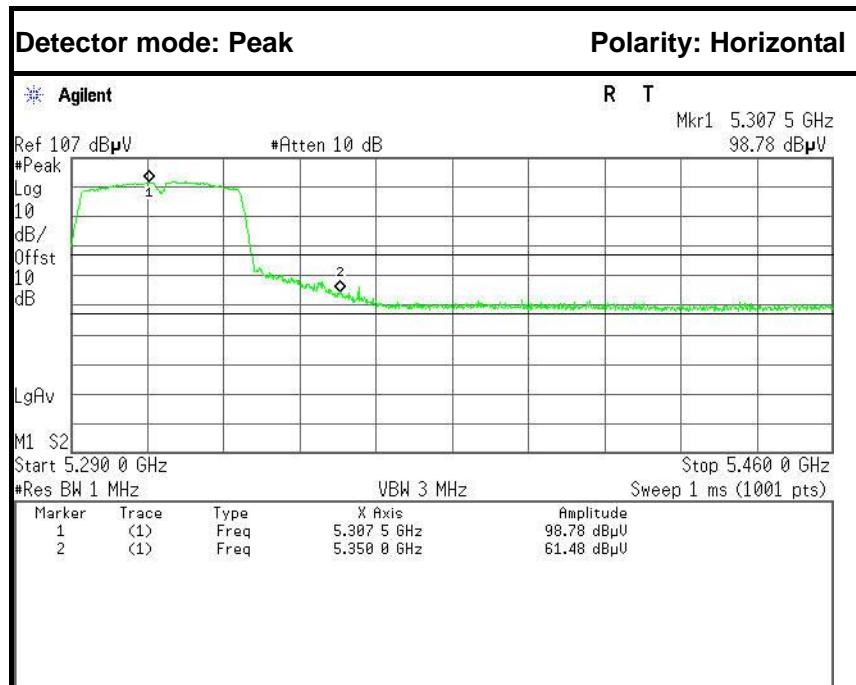
No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Antenna Pole
1	5150.0000	52.48	-6.60	59.08	74.00	-14.92	Peak	Horizontal
2	5150.0000	40.93	-6.60	47.53	54.00	-6.47	Average	Horizontal



IEEE 802.11n HT 40 MHz mode / 5310 MHz



No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Antenna Pole
1	5350.0000	51.92	-6.60	58.52	74.00	-15.48	Peak	Vertical
2	5350.0000	39.34	-6.60	45.94	54.00	-8.06	Average	Vertical



No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Antenna Pole
1	5350.0000	54.88	-6.60	61.48	74.00	-12.52	Peak	Horizontal
2	5350.0000	41.22	-6.60	47.82	54.00	-6.18	Average	Horizontal



6.6 PEAK POWER SPECTRAL 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.

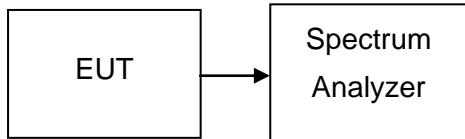
6.6.2 MEASUREMENT EQUIPMENT USED

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.



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



6.6.5 TEST RESULTS

Test Data

IEEE 802.11a mode / 5180 ~ 5240MHz

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margain	Result
Low	5180	2.330	17	-14.670	PASS
Mid	5220	3.494		-13.506	PASS
High	5240	1.822		-15.178	PASS

IEEE 802.11a mode / 5260~ 5320MHz

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margain	Result
Low	5260	2.595	11	-8.405	PASS
Mid	5300	2.108		-8.892	PASS
High	5320	1.603		-9.397	PASS

IEEE 802.11a mode / 5500 ~ 5700MHz

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margain	Result
Low	5500	1.695	11	-9.305	PASS
Mid	5580	0.756		-10.244	PASS
High	5700	1.411		-9.589	PASS

IEEE 802.11a mode / 5745 ~ 5825MHz

Channel	Frequency (MHz)	PPSD (dBm)	factor	Limit (dBm)	Margain	Result
Low	5745	1.648	-3.01	17	-18.362	PASS
Mid	5785	2.256	-3.01		-17.754	PASS
High	5825	2.333	-3.01		-17.677	PASS

Remark: factor = $10 \cdot \log_{10}(500/\text{RBW})$

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

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margain	Result
Low	5180	1.562	17	-15.438	PASS
Mid	5220	1.408		-15.592	PASS
High	5240	1.335		-15.665	PASS

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

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margain	Result
Low	5260	0.688	11	-10.312	PASS
Mid	5300	0.910		-10.090	PASS
High	5320	-0.004		-11.004	PASS

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

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margain	Result
Low	5500	2.116	11	-8.884	PASS
Mid	5580	-0.231		-11.231	PASS
High	5700	0.532		-10.468	PASS

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

Channel	Frequency (MHz)	PPSD (dBm)	factor	Limit (dBm)	Margain	Result
Low	5745	2.616	-3.01	30	-30.394	PASS
Mid	5785	1.761			-31.249	PASS
High	5825	1.979			-31.031	PASS

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

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

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margain	Result
Low	5190	-1.211	17	-18.211	PASS
High	5230	-1.242		-18.242	PASS

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

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margain	Result
Low	5270	-1.770	11	-12.770	PASS
High	5310	-1.657		-12.657	PASS

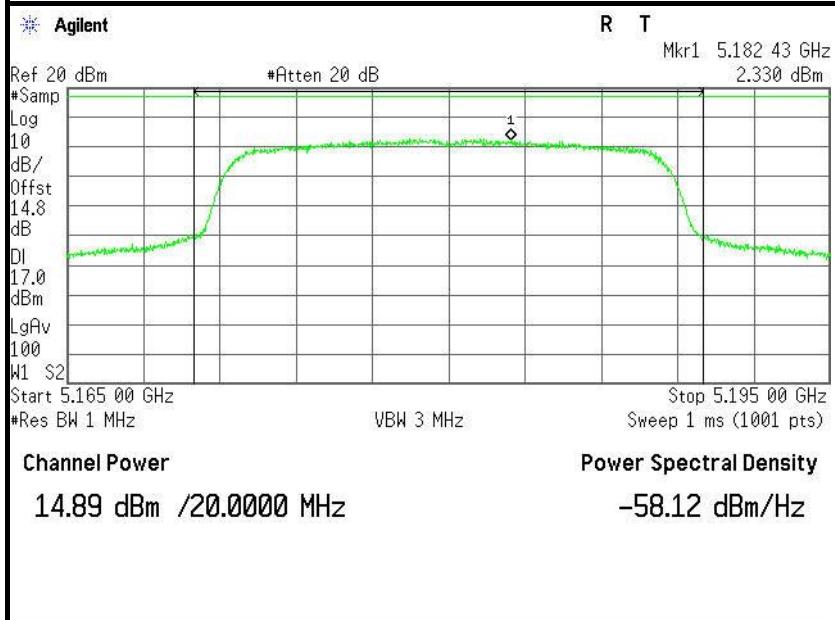
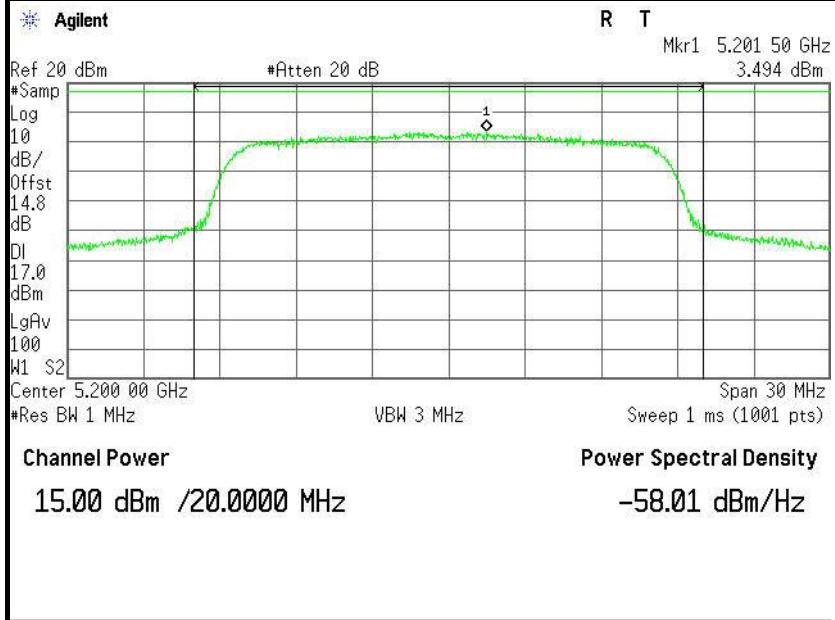
IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz

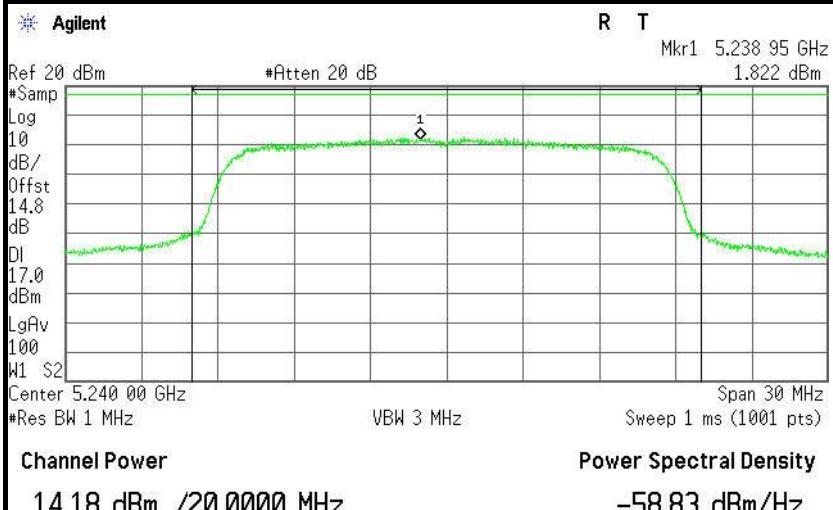
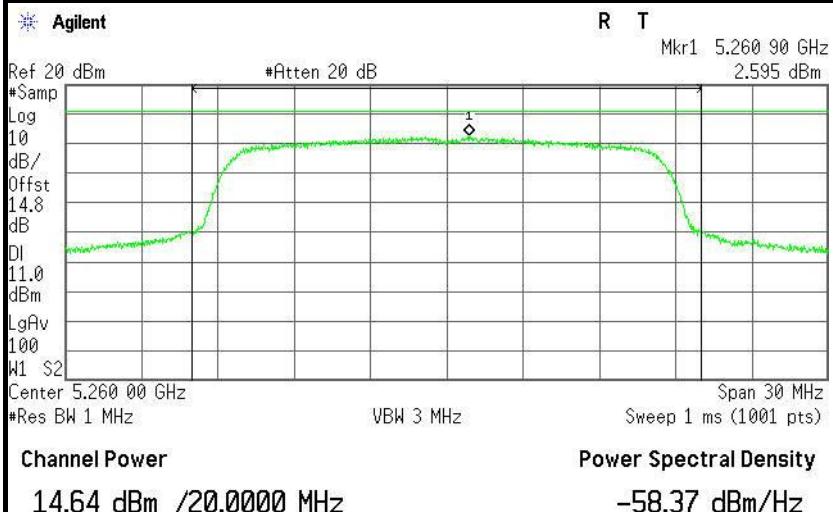
Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margain	Result
Low	5510	-1.656	11	-12.656	PASS
Mid	5550	-2.025		-13.025	PASS
High	5670	-0.871		-11.871	PASS

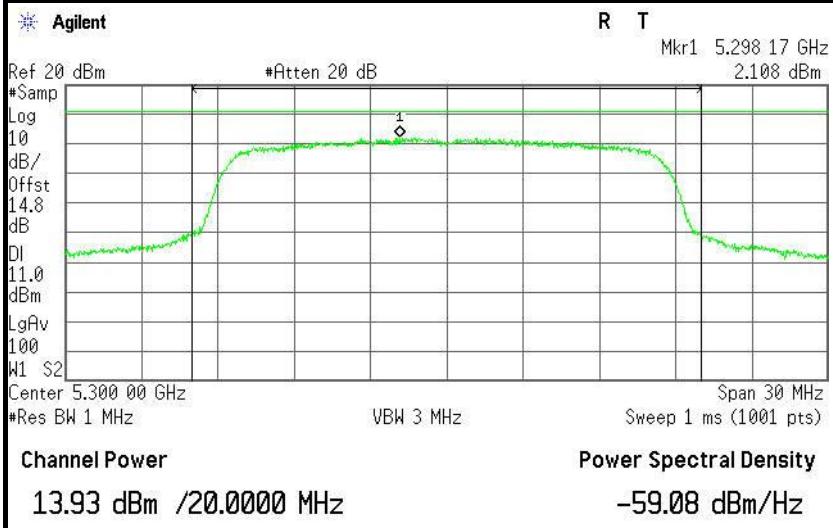
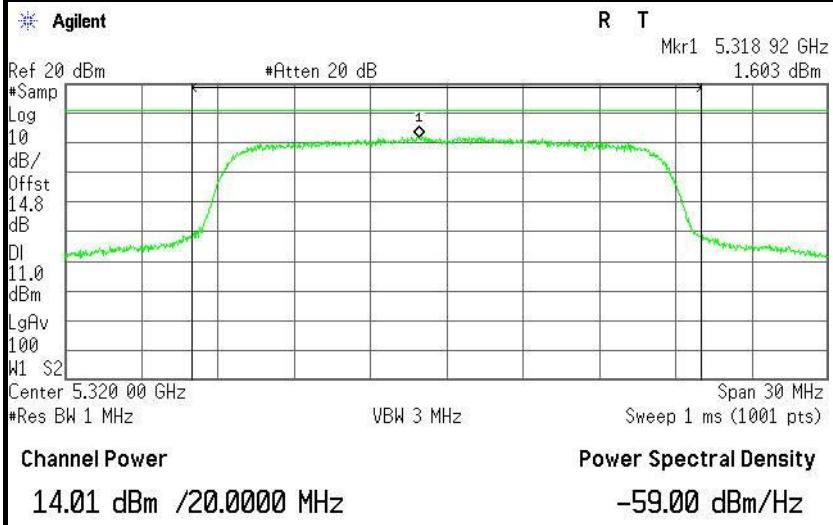
IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

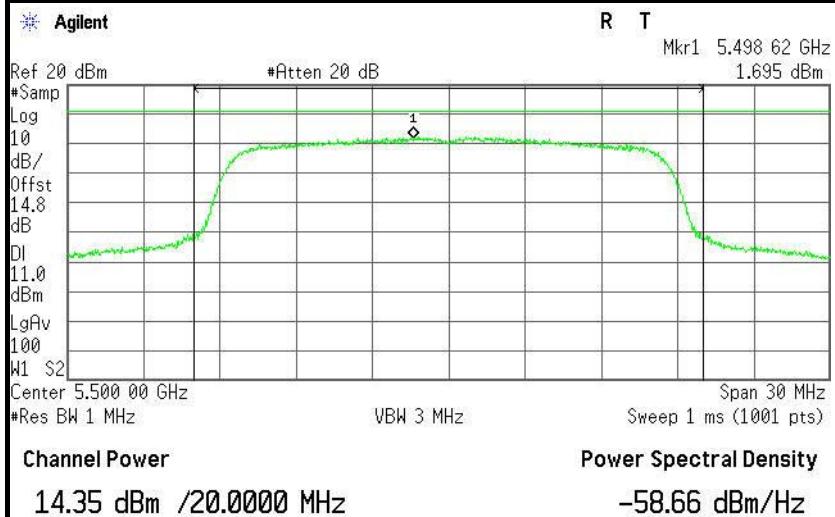
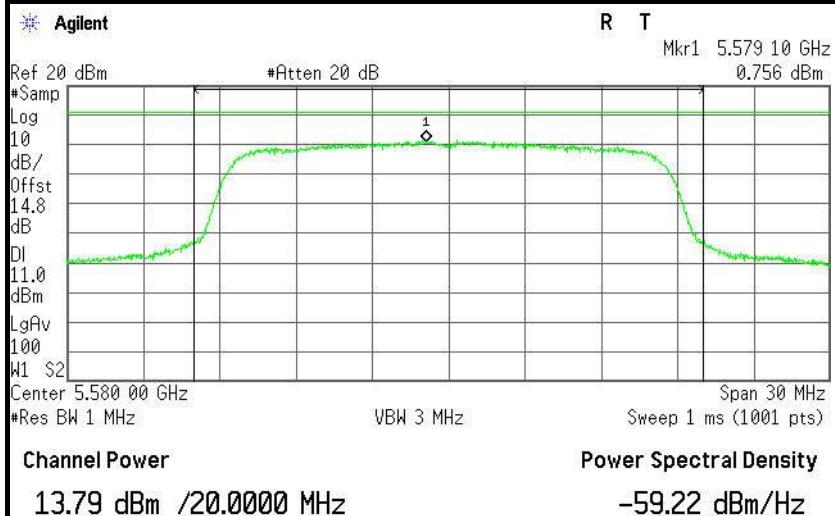
Channel	Frequency (MHz)	PPSD (dBm)	factor	Limit (dBm)	Margain	Result
Low	5755	-2.276	-3.01	17	-22.286	PASS
High	5795	-2.199			-22.209	PASS

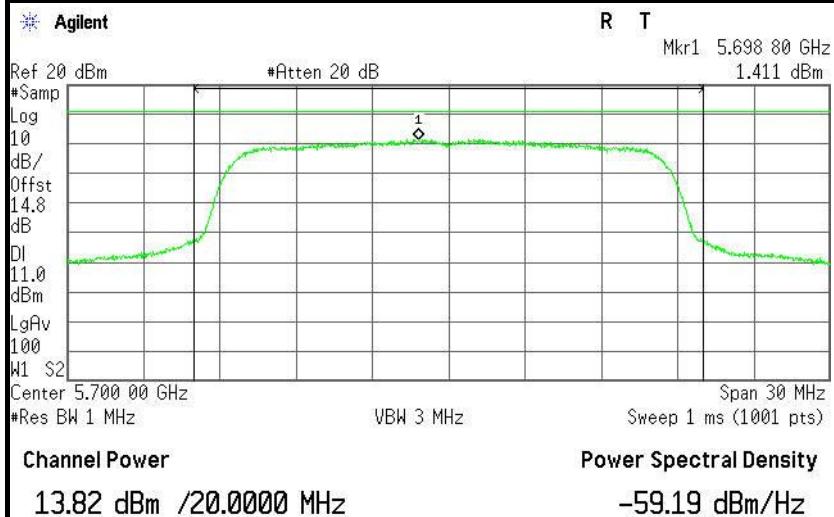
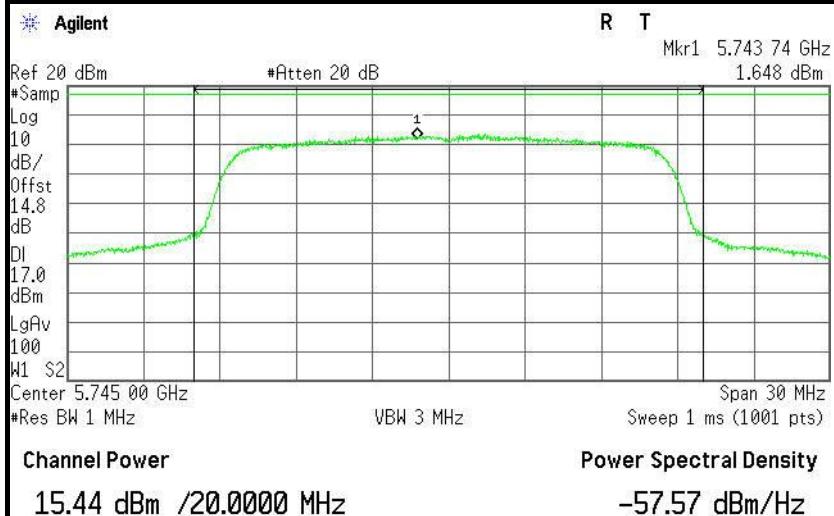
Remark: factor =10*log10(500/RBW)

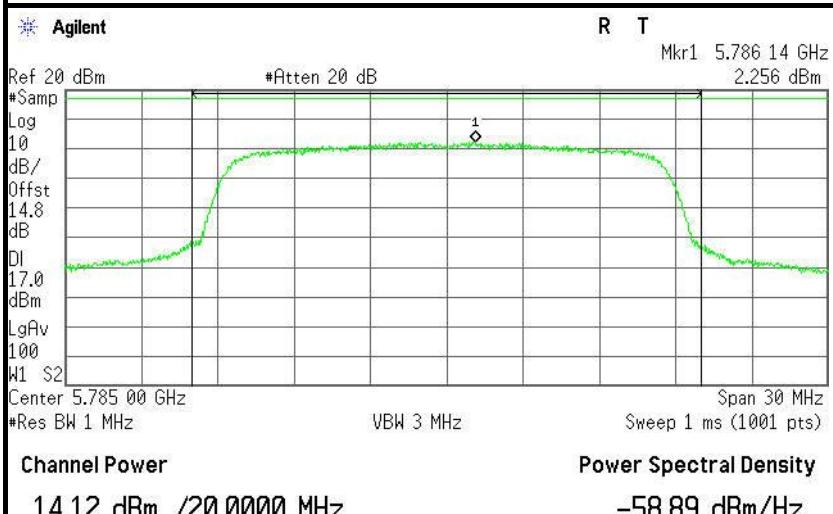
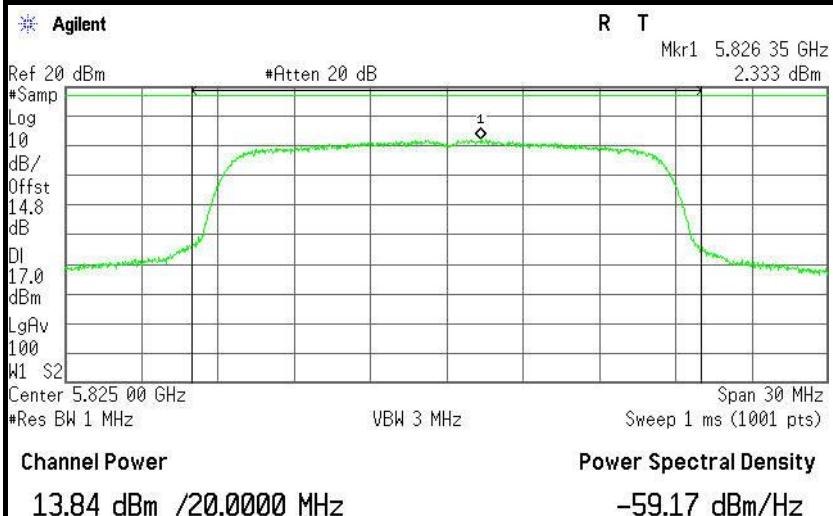
**Test Plot****IEEE 802.11a mode / 5180 ~ 5240MHz****PPSD (CH Low)****PPSD (CH Mid)**

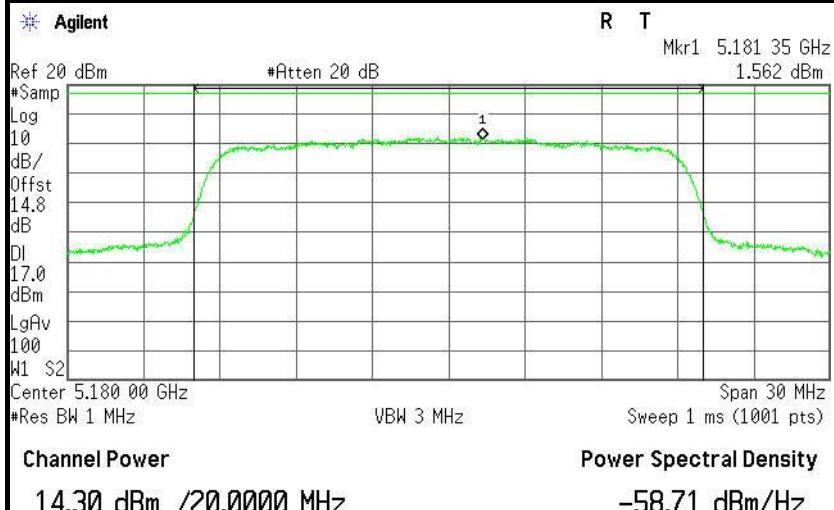
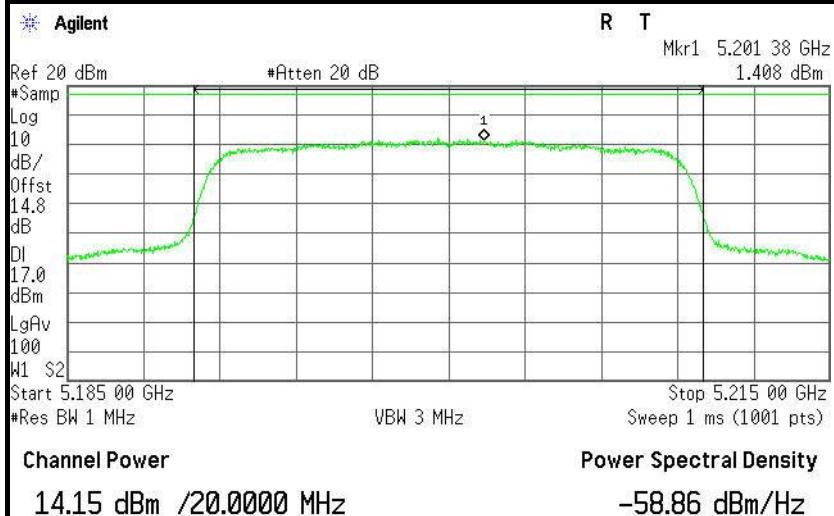
**PPSD (CH High)****IEEE 802.11a mode / 5260~ 5320MHz****PPSD (CH Low)**

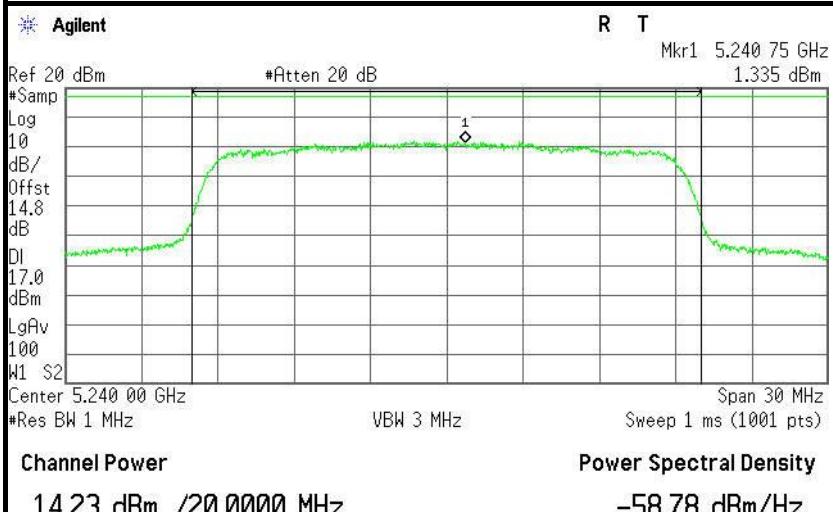
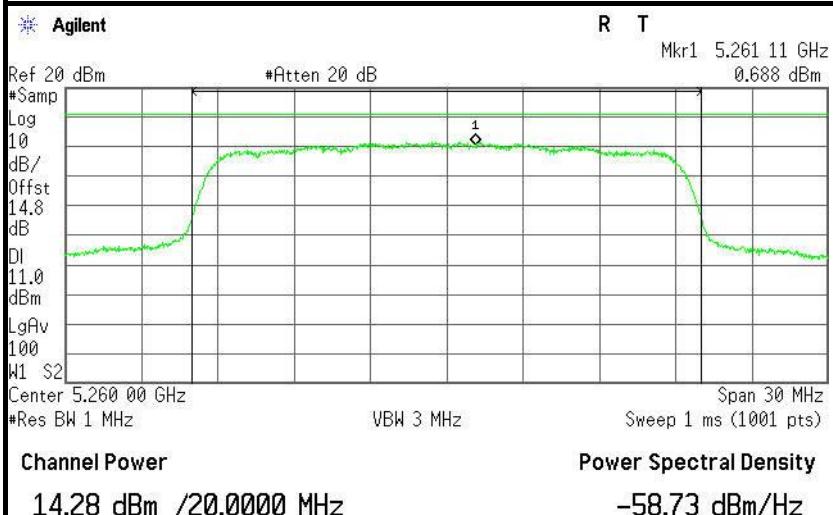
**PPSD (CH Mid)****PPSD (CH High)**

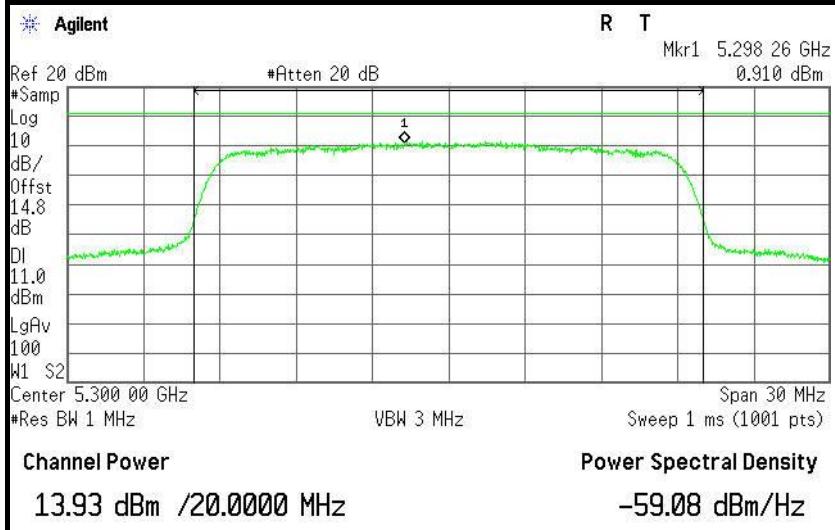
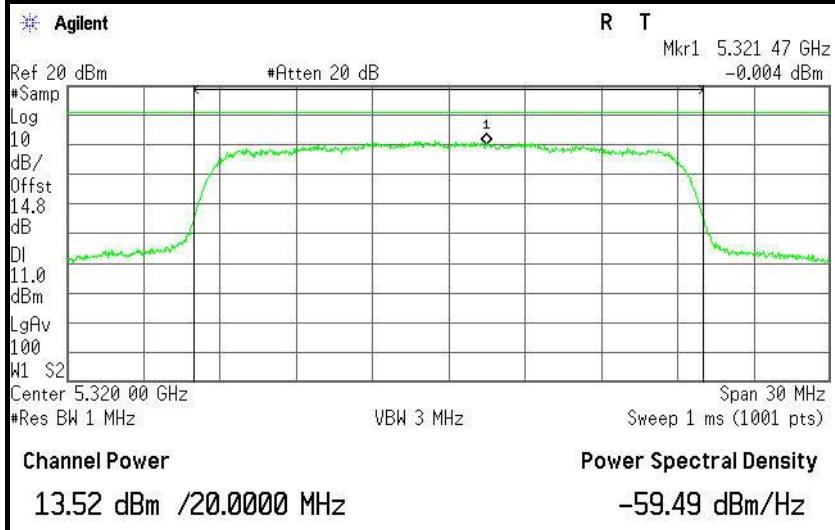
**IEEE 802.11a mode / 5500 ~ 5700MHz****PPSD (CH Low)****PPSD (CH Mid)**

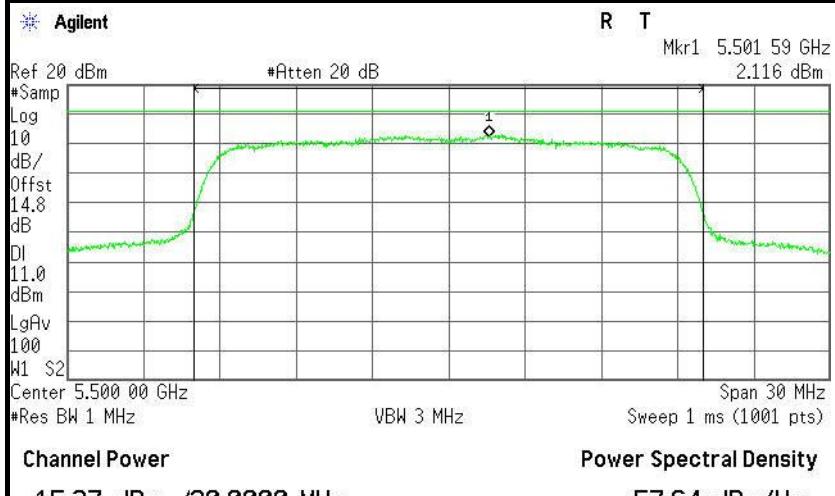
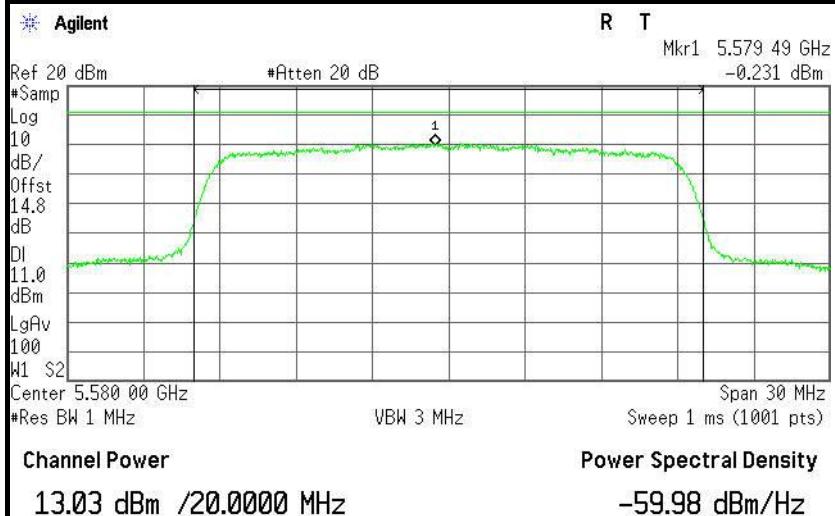
**PPSD (CH High)****IEEE 802.11a mode / 5745 ~ 5825MHz****PPSD (CH Low)**

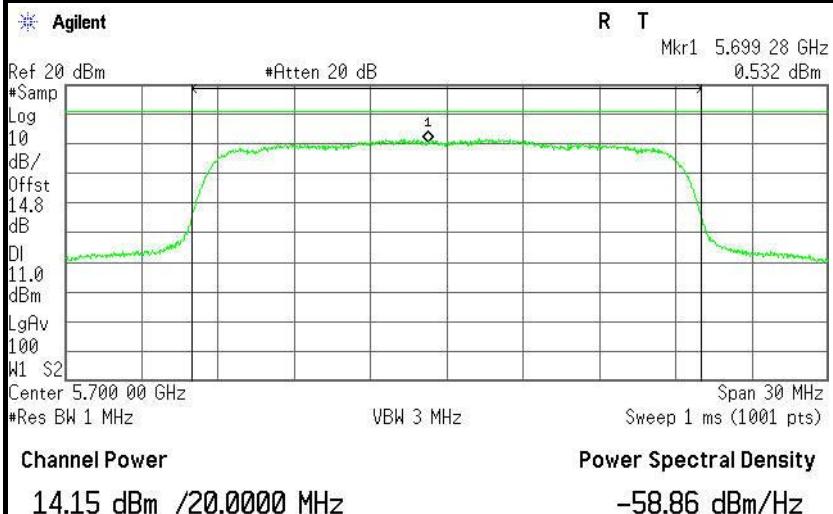
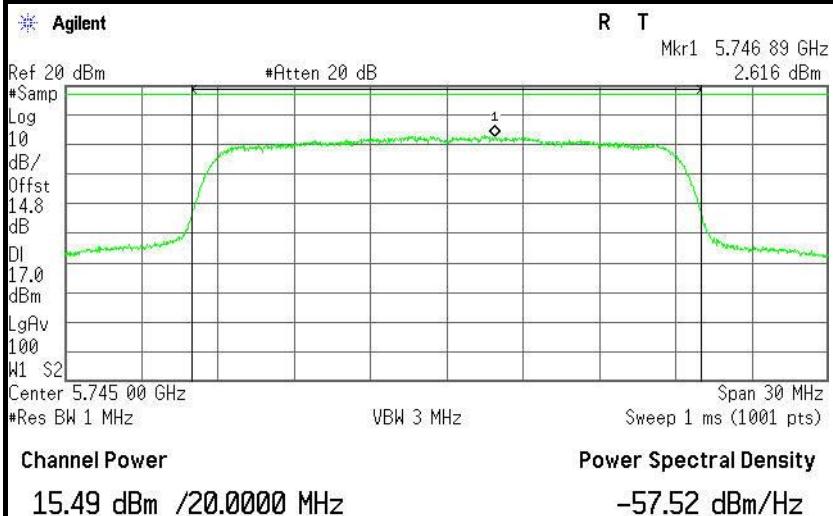
**PPSD (CH Mid)****PPSD (CH High)**

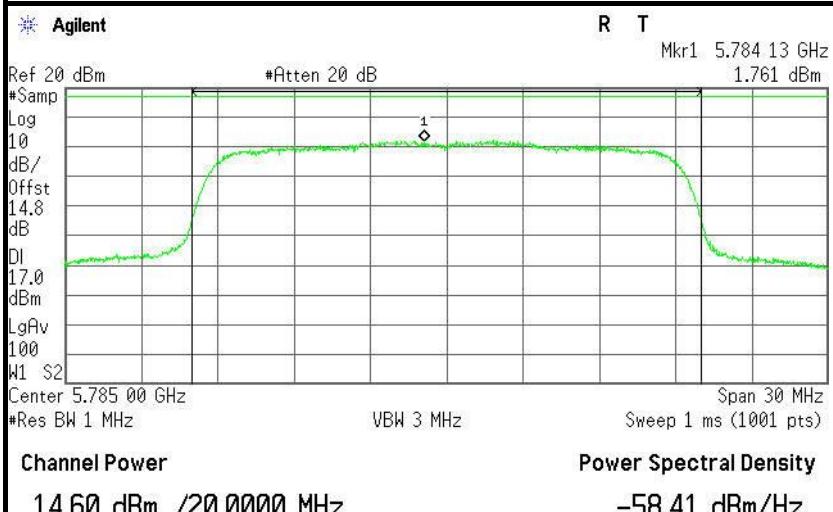
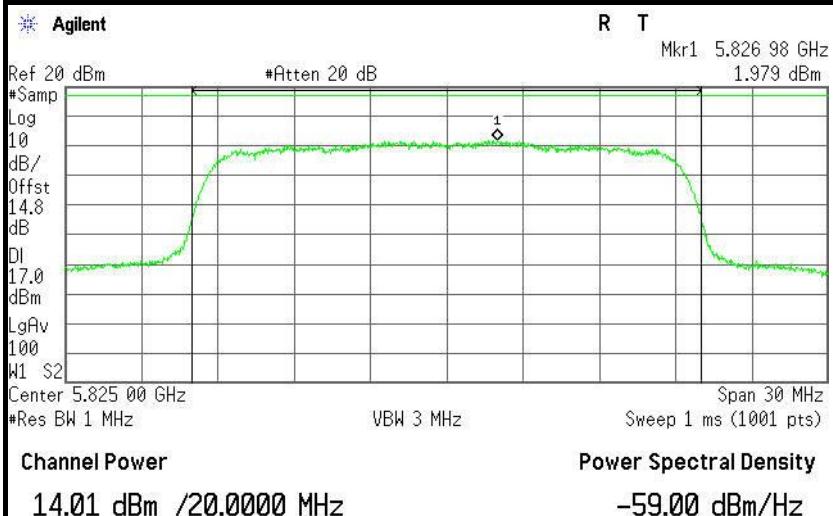
**IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz****PPSD (CH Low)****PPSD (CH Mid)**

**PPSD (CH High)****IEEE 802.11n HT 20 MHz mode / 5260~ 5320MHz****PPSD (CH Low)**

**PPSD (CH Mid)****PPSD (CH High)**

**IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz****PPSD (CH Low)****PPSD (CH Mid)**

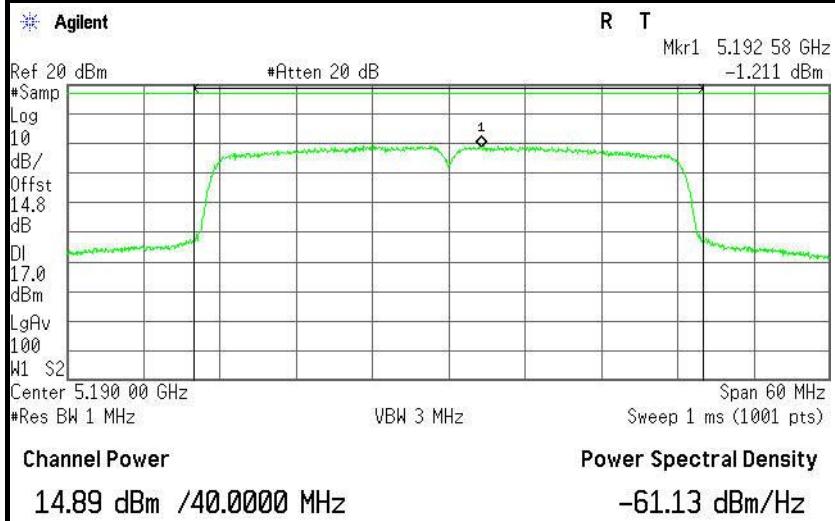
**PPSD (CH High)****IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz****PPSD (CH Low)**

**PPSD (CH Mid)****PPSD (CH High)**

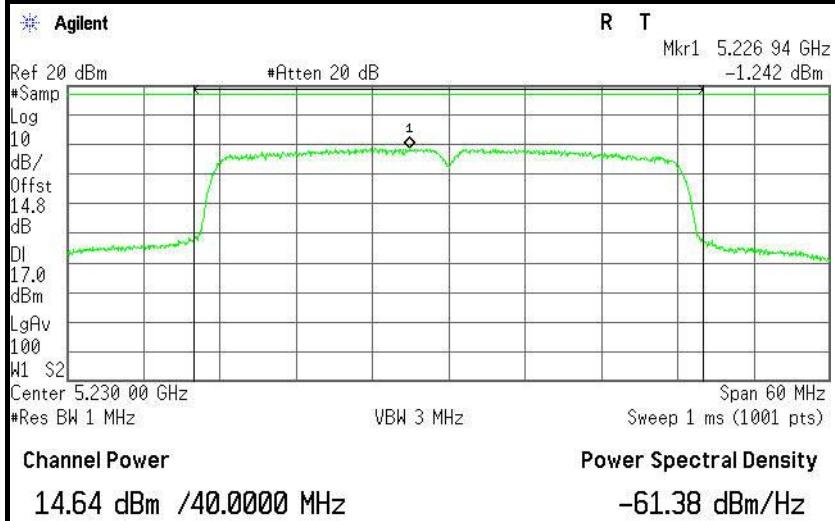


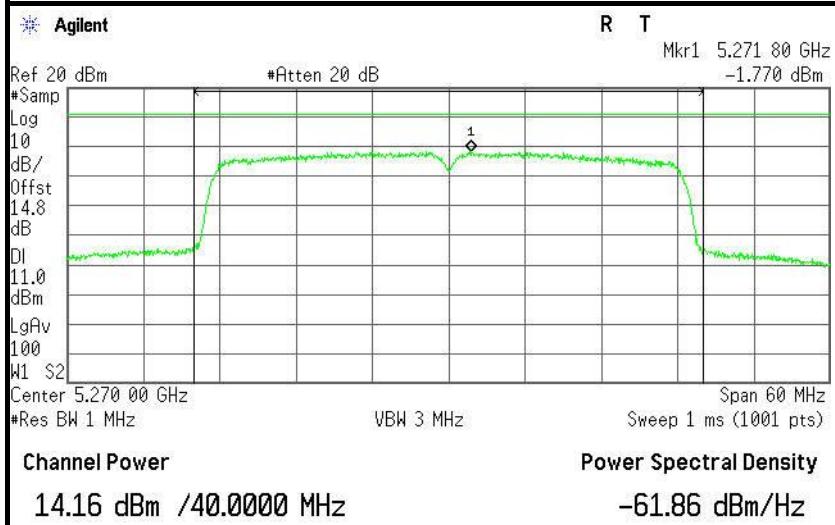
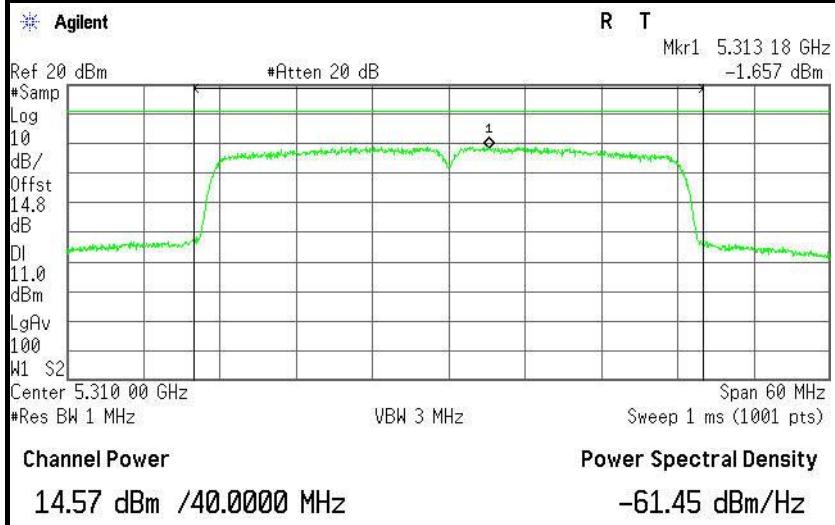
IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz

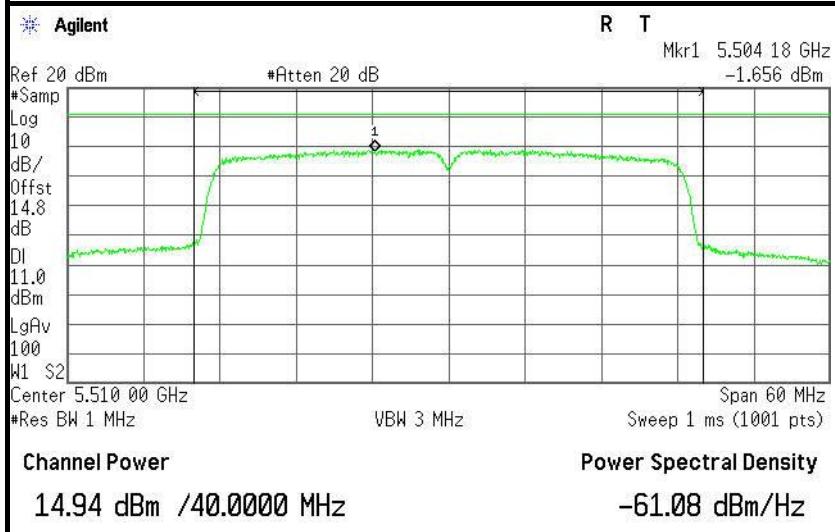
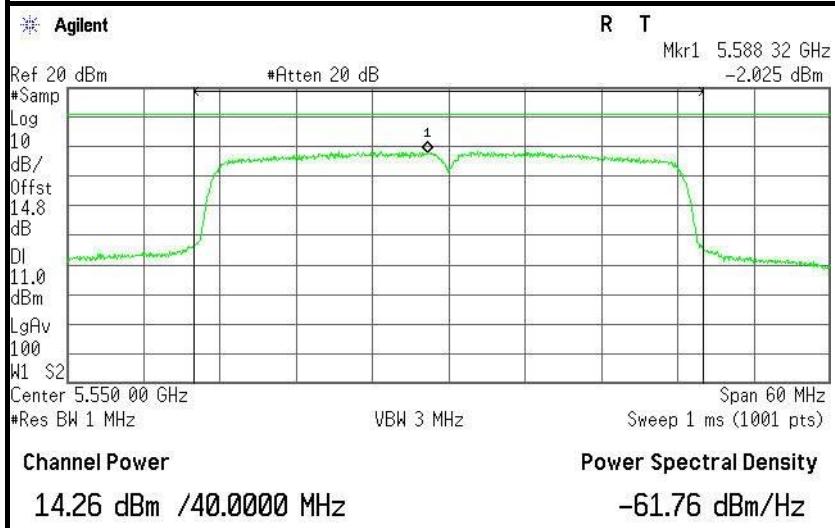
PPSD (CH Low)

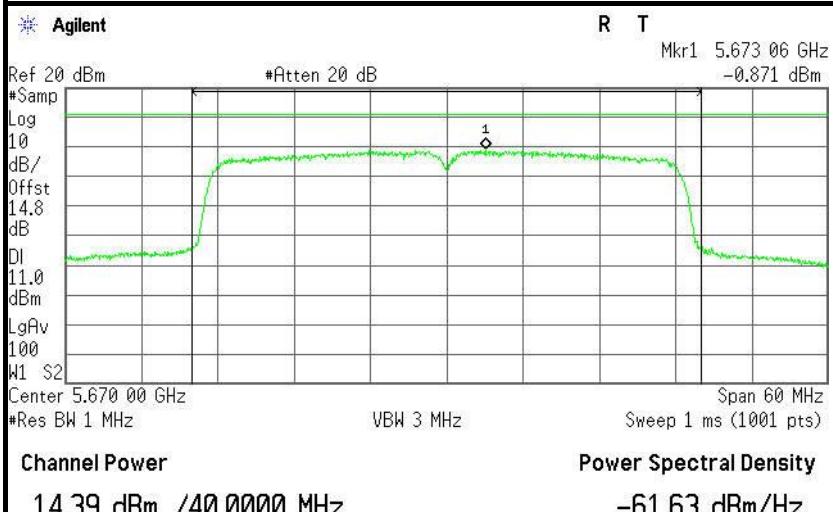
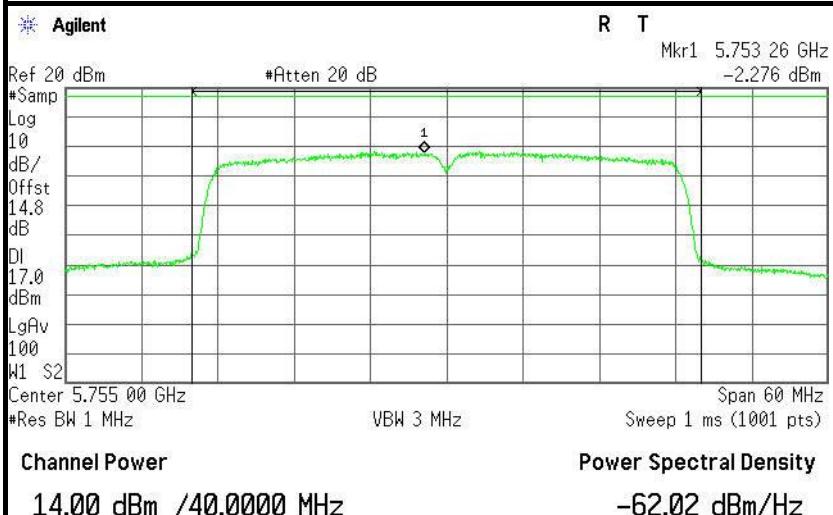


PPSD (CH High)



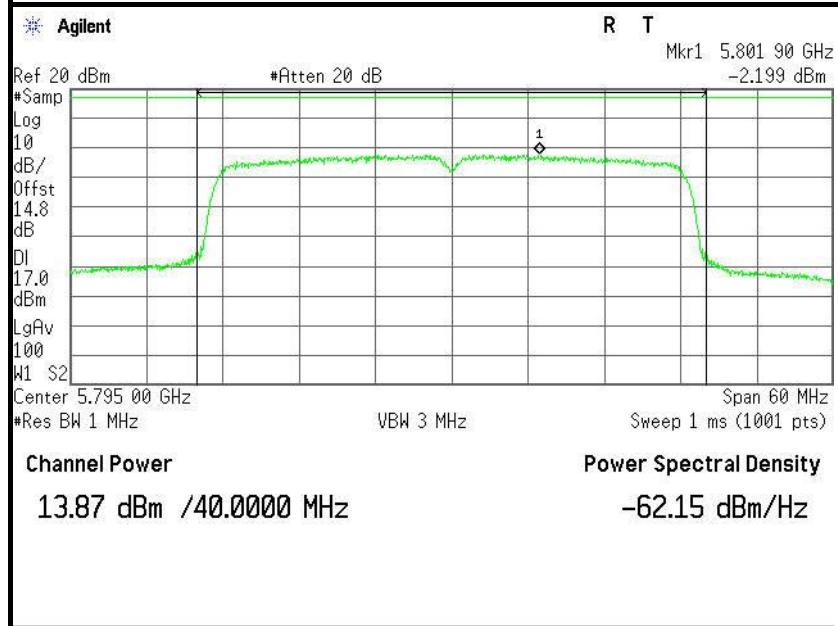
**IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz****PPSD (CH Low)****PPSD (CH High)**

**IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz****PPSD (CH Low)****PPSD (CH Mid)**

**PPSD (CH High)****IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz****PPSD (CH Low)**



PPSD (CH High)





6.7 RADIATED UNDESIRABLE 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 (μ V/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.

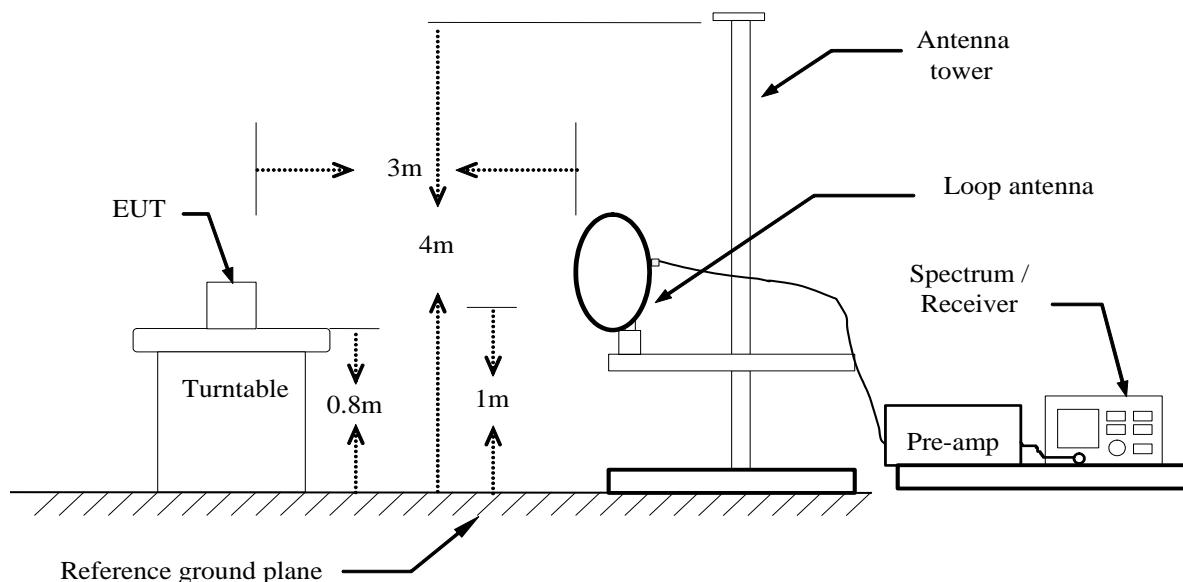
Frequency (MHz)	Field Strength (μ V/m at 3-meter)	Field Strength (dB μ V/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

6.7.2 TEST INSTRUMENTS

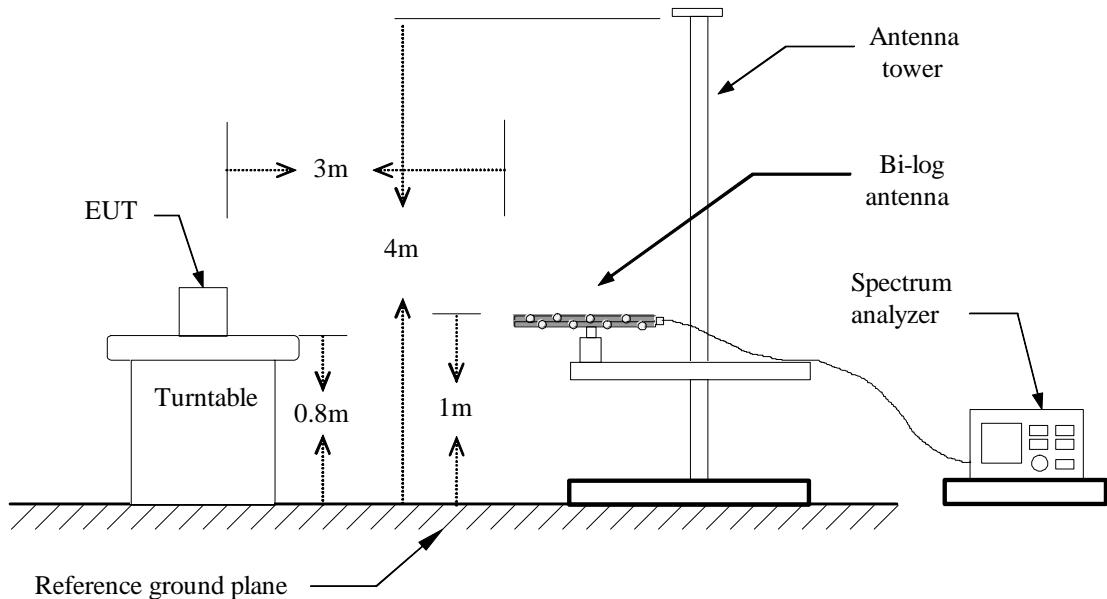
Radiated Emission Test Site 966(2)					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
PSA Series Spectrum Analyzer	Agilent	E4446A	US44300399	02/28/2015	02/27/2016
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	02/28/2015	02/27/2016
Amplifier	MITEQ	AM-1604-3000	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

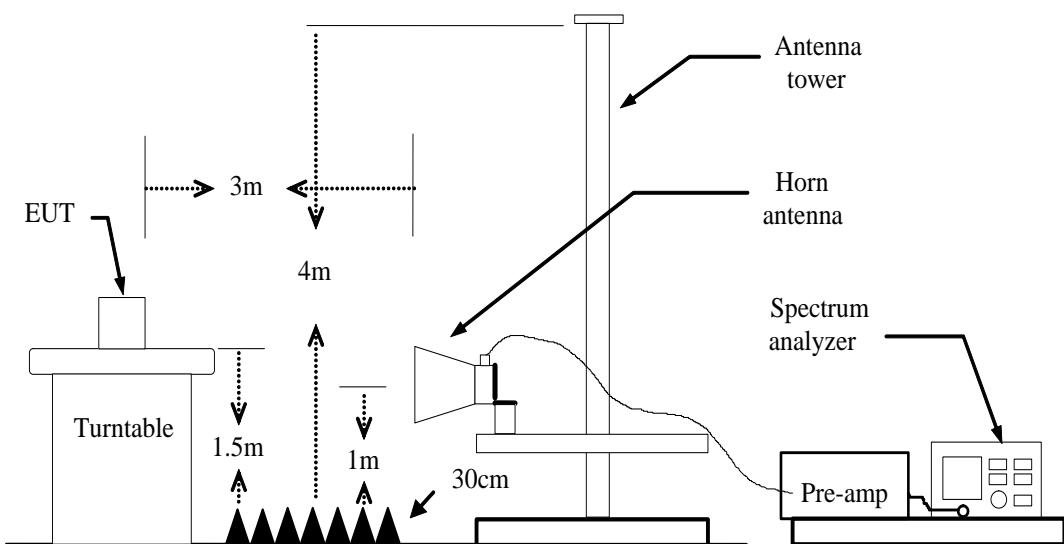
Below 30MHz



Below 1 GHz



Above 1 GHz



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



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.



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



6.7.6 TEST RESULTS

Below 1 GHz

Test Mode: TX

Tested by: Eve Wang

Ambient temperature: 24°C Relative humidity: 52% RH

Date: December 10, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
277.3500	49.13	-20.42	28.71	46.00	-17.29	V	QP
339.4300	49.35	-18.16	31.19	46.00	-14.81	V	QP
435.4600	50.24	-15.64	34.60	46.00	-11.40	V	QP
543.1300	48.48	-13.22	35.26	46.00	-10.74	V	QP
666.3200	48.77	-12.22	36.55	46.00	-9.45	V	QP
823.4600	49.13	-10.46	38.67	46.00	-7.33	V	QP
336.5200	50.16	-18.24	31.92	46.00	-14.08	H	QP
443.2200	50.13	-15.61	34.52	46.00	-11.48	H	QP
583.8700	49.85	-13.08	36.77	46.00	-9.23	H	QP
624.6100	49.99	-12.73	37.26	46.00	-8.74	H	QP
828.3100	49.87	-10.55	39.32	46.00	-6.68	H	QP
922.4000	49.34	-9.42	39.92	46.00	-6.08	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).

**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: December 6, 2015**

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
15540.000	32.77	18.70	51.47	74.00	-22.53	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).

**Test Mode:** TX / IEEE 802.11a / 5200MHz /(CH Mid)**Tested by:** Eve Wang**Ambient temperature:** 24°C **Relative humidity:** 52% RH **Date:** December 6, 2015

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
15600.000	33.85	18.43	52.28	74.00	-21.72	V	peak
15600.000	31.29	18.43	49.72	54.00	-4.28	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
15600.000	32.26	18.43	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).

**Test Mode:** TX / IEEE 802.11a / 5240MHz /(CH High)**Tested by:** Eve Wang**Ambient temperature:** 24°C **Relative humidity:** 52% RH **Date:** December 6, 2015

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).

**Test Mode:** TX / IEEE 802.11a / 5260MHz /(CH Low)**Tested by:** Eve Wang**Ambient temperature:** 24°C **Relative humidity:** 52% RH **Date:** December 6, 2015

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).

**Test Mode:** TX / IEEE 802.11a / 5300MHz /(CH Mid)**Tested by:** Eve Wang**Ambient temperature:** 24°C **Relative humidity:** 52% RH **Date:** December 6, 2015

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).

**Test Mode:** TX / IEEE 802.11a / 5320MHz /(CH High)**Tested by:** Eve Wang**Ambient temperature:** 24°C **Relative humidity:** 52% RH **Date:** December 6, 2015

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).

**Test Mode:** TX / IEEE 802.11a / 5500MHz /(CH Low)**Tested by:** Eve Wang**Ambient temperature:** 24°C **Relative humidity:** 52% RH **Date:** December 6, 2015

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).

**Test Mode:** TX / IEEE 802.11a / 5580MHz /(CH Mid)**Tested by:** Eve Wang**Ambient temperature:** 24°C **Relative humidity:** 52% RH **Date:** December 6, 2015

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
16740.000	32.91	21.63	54.54	74.00	-19.46	V	peak
16740.000	29.06	21.63	50.69	54.00	-3.31	V	AVG
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).