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

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margain	Result
Low	5190	-4.785	17	-21.785	PASS
High	5230	-0.771		-17.771	PASS

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

Channel	Frequency (MHz)	PPSD (dBm)	factor	Limit (dBm)	Margain	Result
Low	5755	-0.893	-3.01	17	-20.903	PASS
High	5795	0.459	-3.01		-19.551	PASS

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

Test mode: IEEE 802.11ac 80 mode / 5210MHz

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margain	Result
	5210	-8.747	17	-25.747	PASS

Test mode: IEEE 802.11ac 80 mode / 5775MHz

Channel	Frequency (MHz)	PPSD (dBm)	factor	Limit (dBm)	Margain	Result
Low	5775	-3.773	-3.01	17	-23.783	PASS

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

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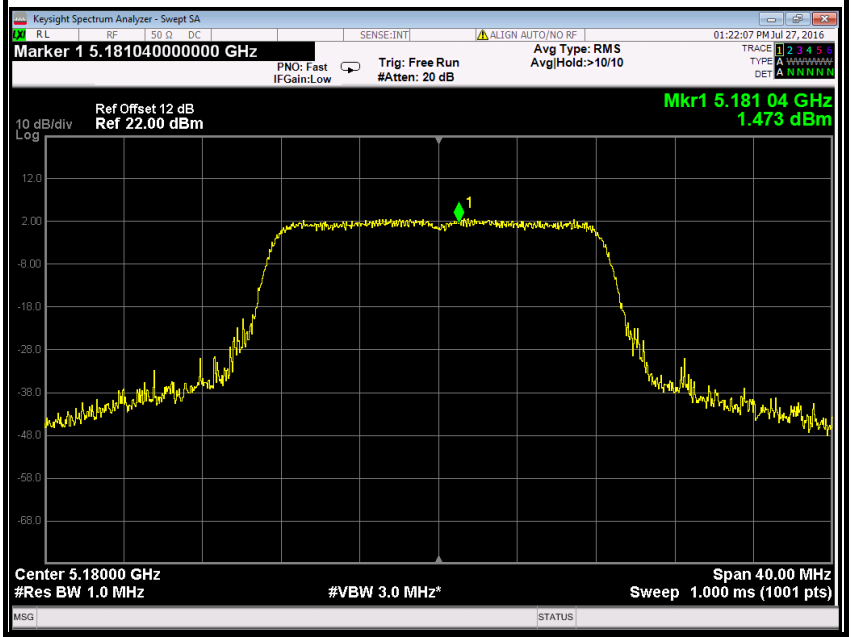
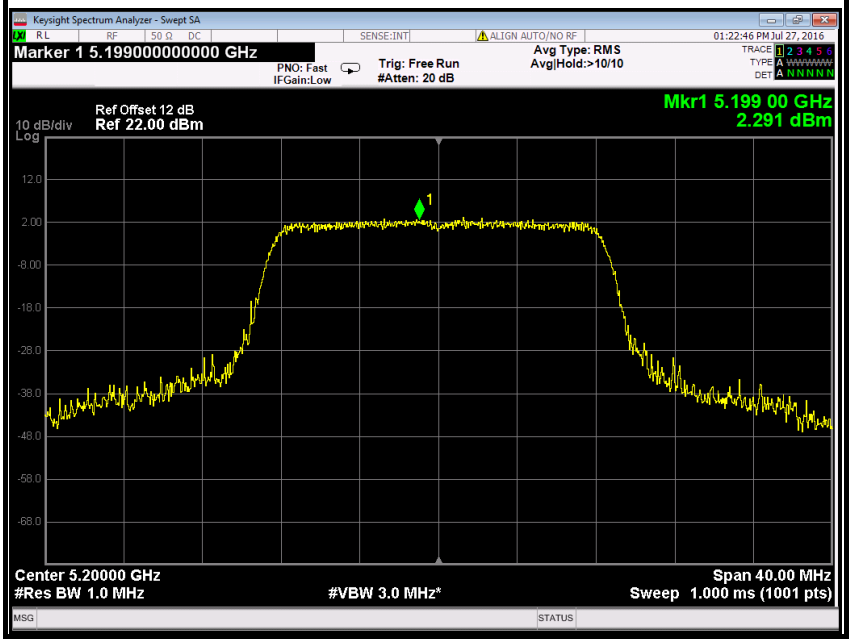
Test Plot

IEEE 802.11a mode / 5180 ~ 5240MHz

PPSD (CH Low)



PPSD (CH Mid)



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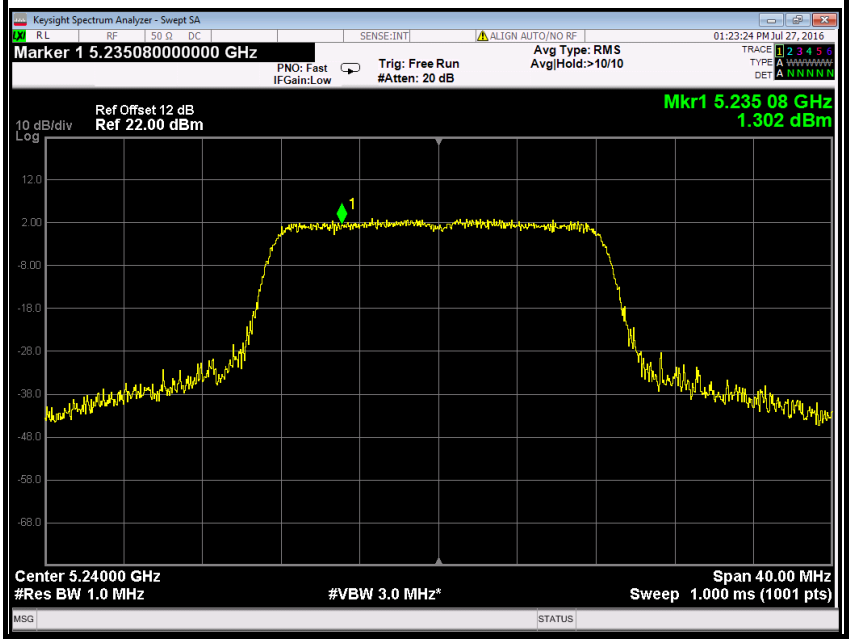
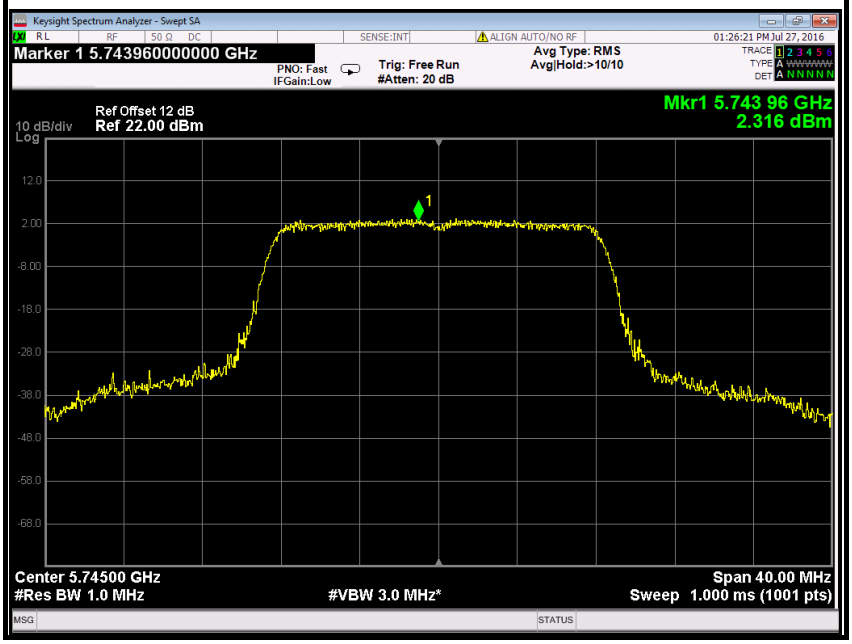
PPSD (CH High)



IEEE 802.11a mode / 5745 ~ 5825MHz

PPSD (CH Low)



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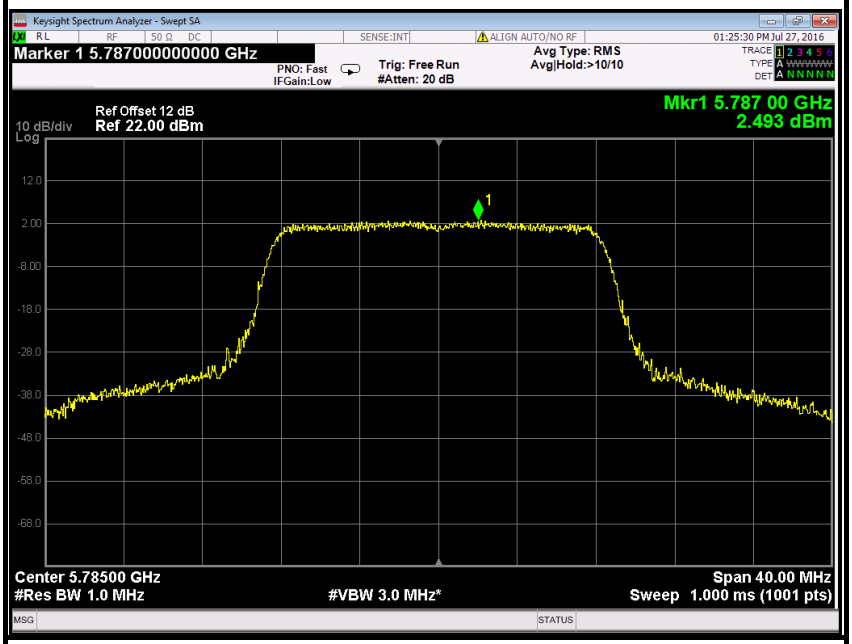
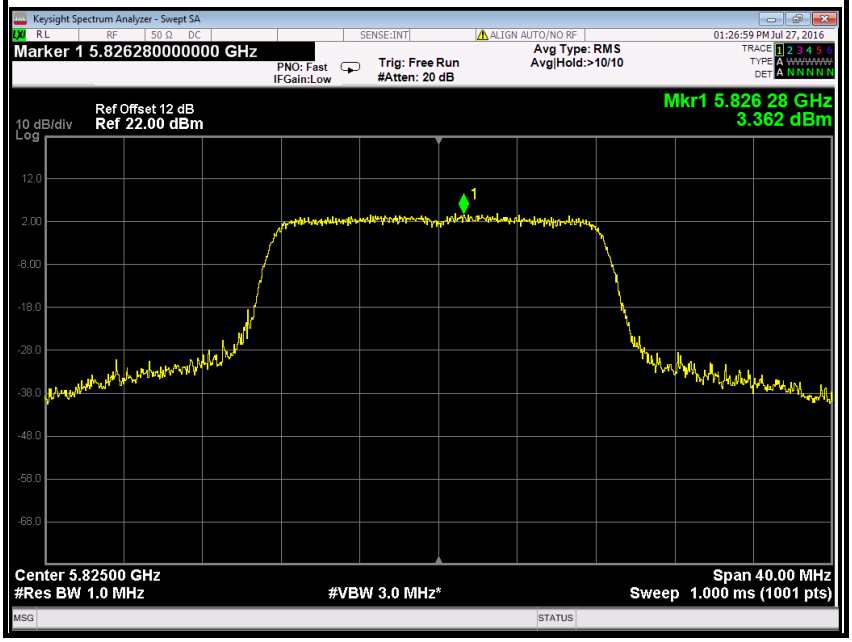
PPSD (CH Mid)



PPSD (CH High)



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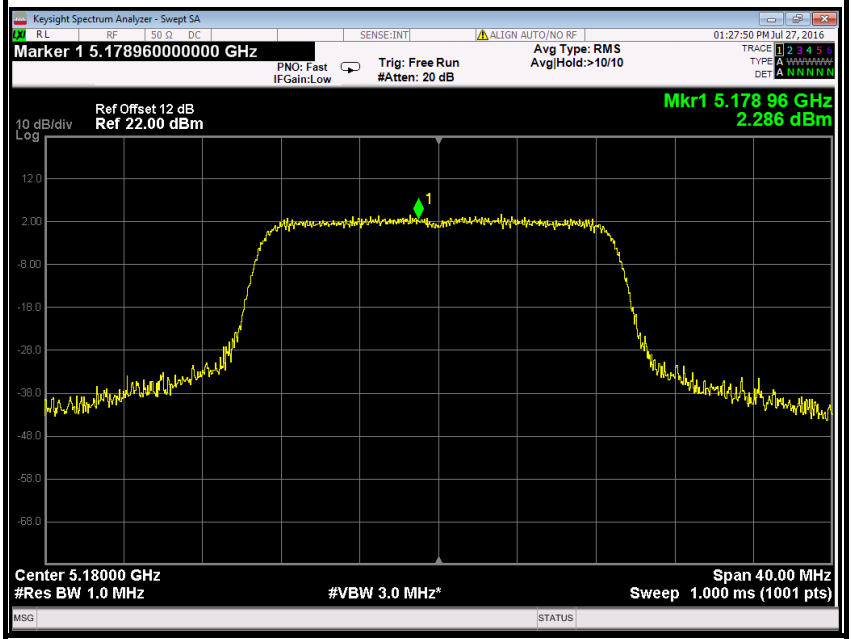
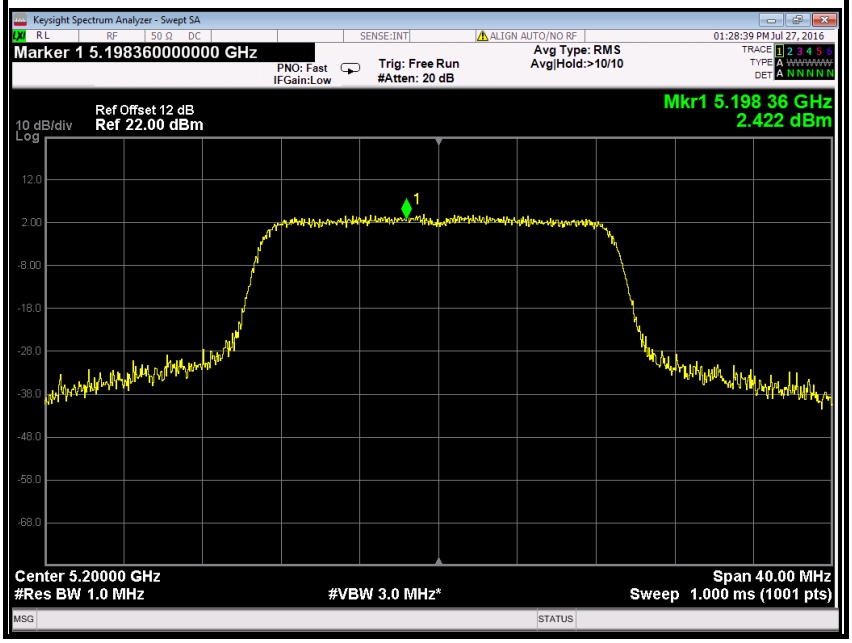
IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz

PPSD (CH Low)



PPSD (CH Mid)



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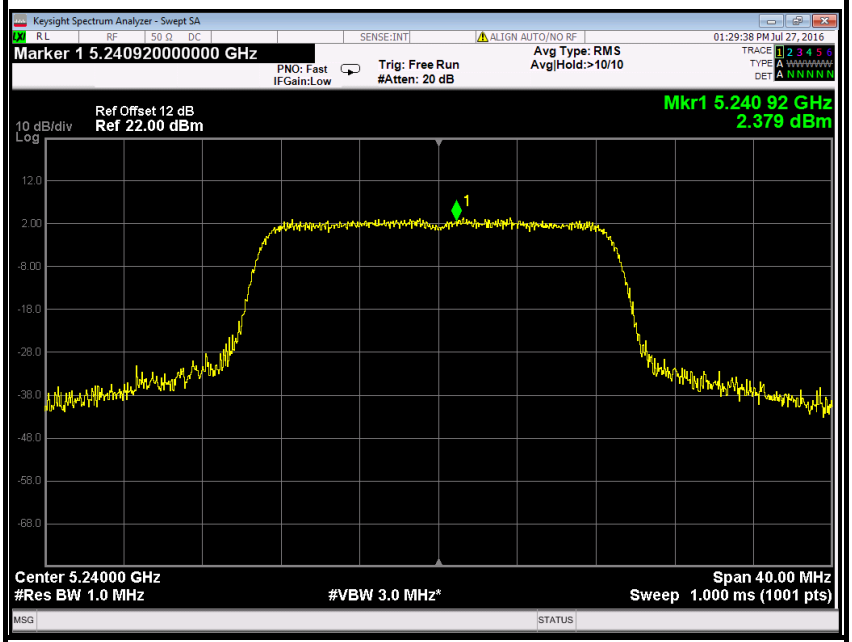
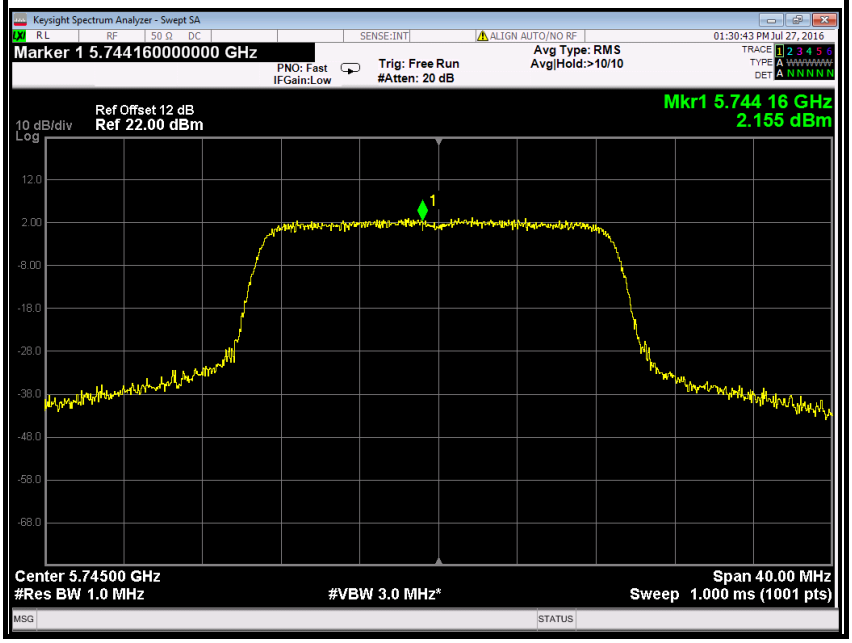
PPSD (CH High)



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

PPSD (CH Low)



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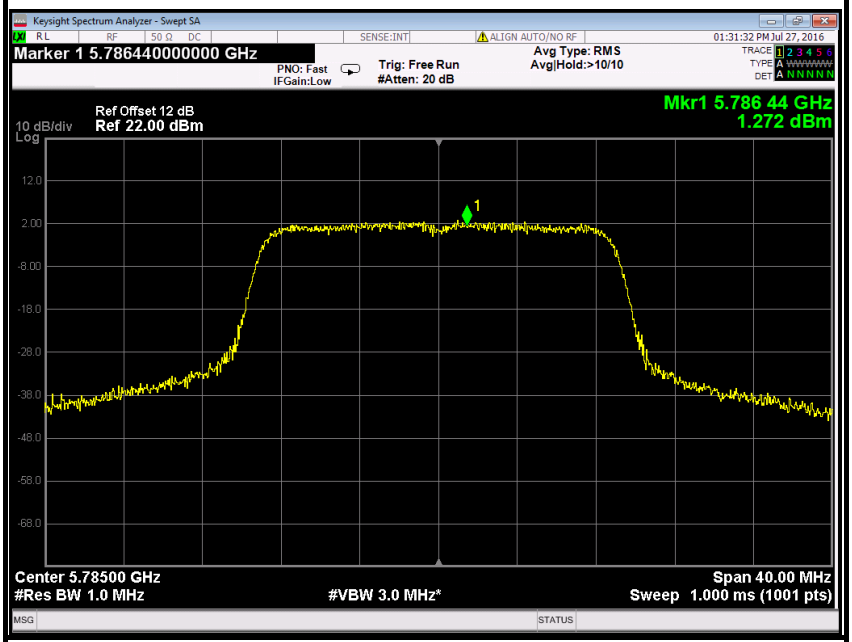
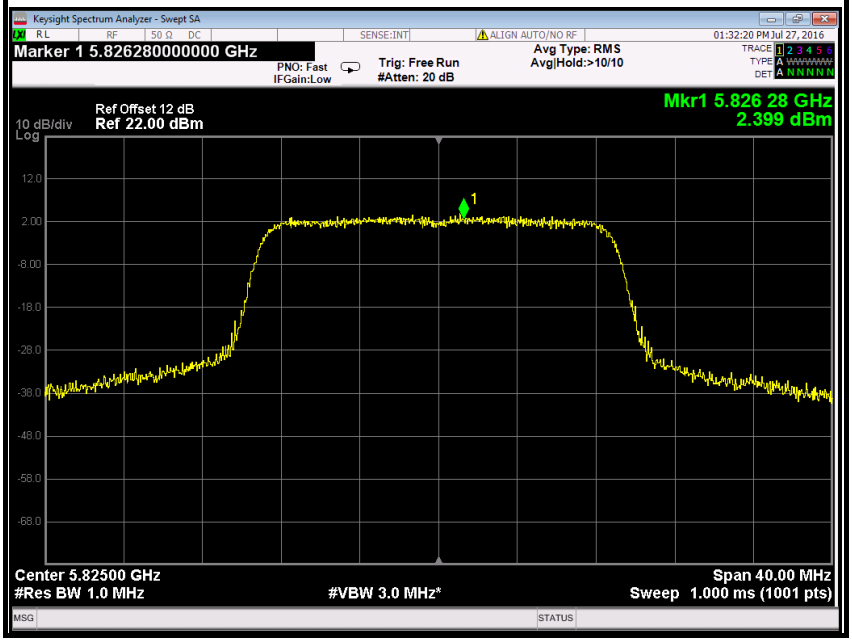
PPSD (CH Mid)



PPSD (CH High)



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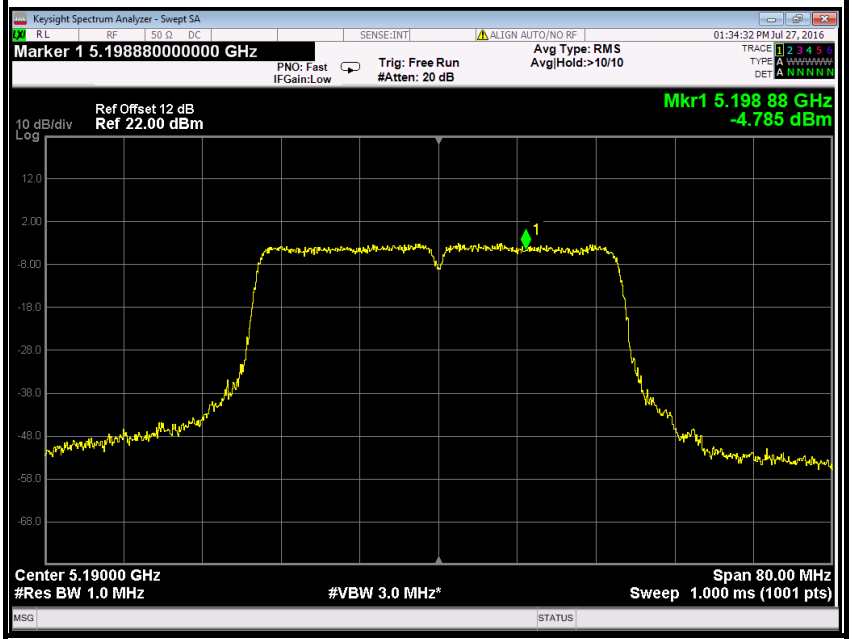
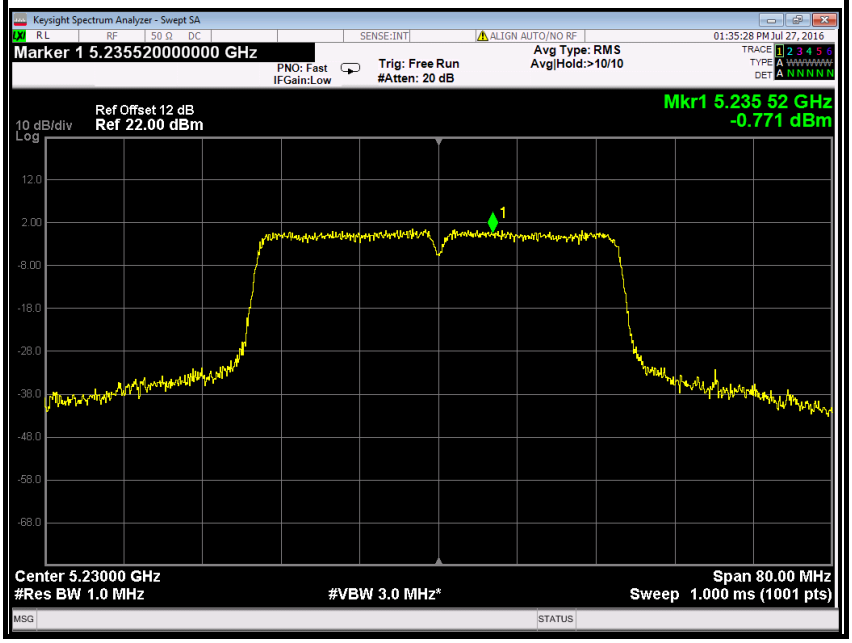
IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz

PPSD (CH Low)



PPSD (CH High)



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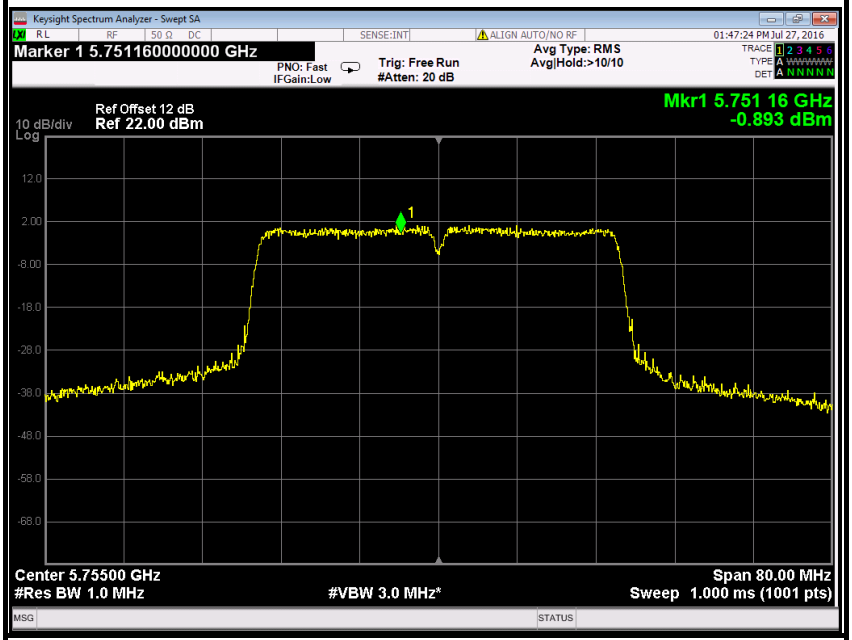
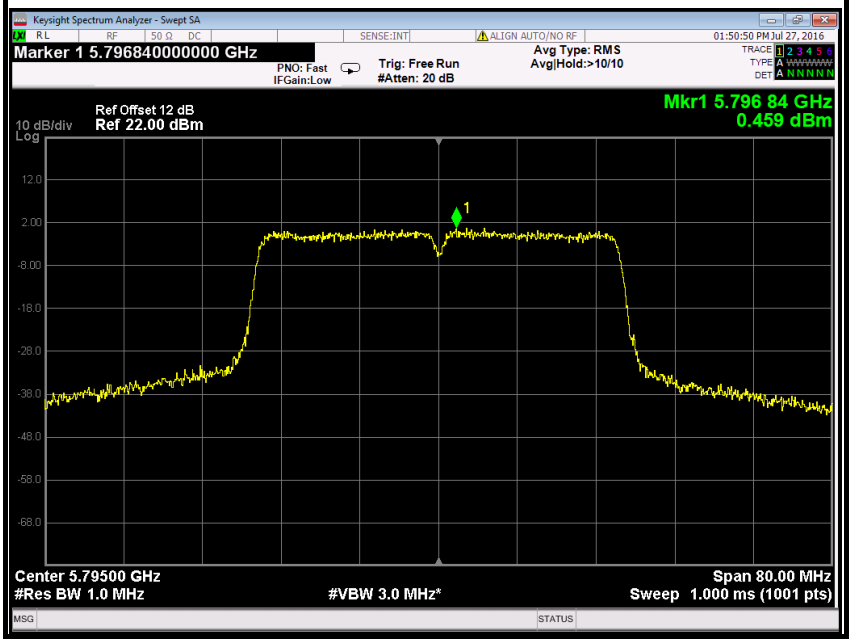
IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

PPSD (CH Low)



PPSD (CH High)



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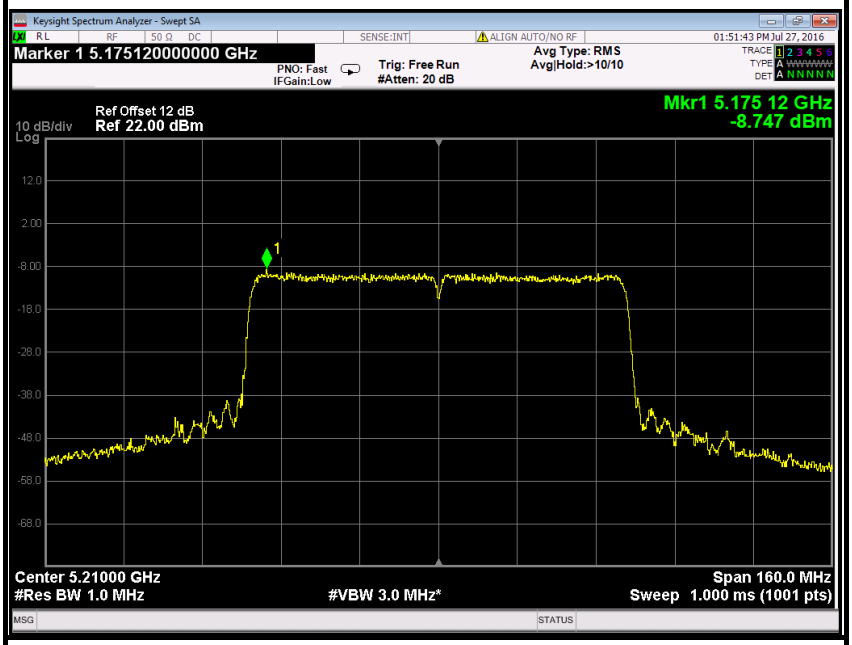
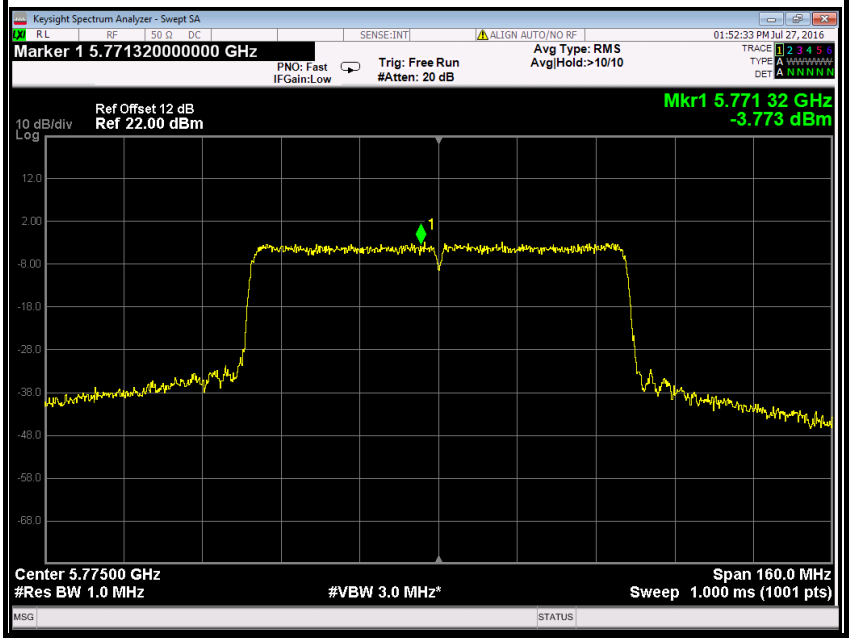
IEEE 802.11ac 80 mode / 5210MHz

PPSD



IEEE 802.11ac 80 mode / 5775MHz

PPSD



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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

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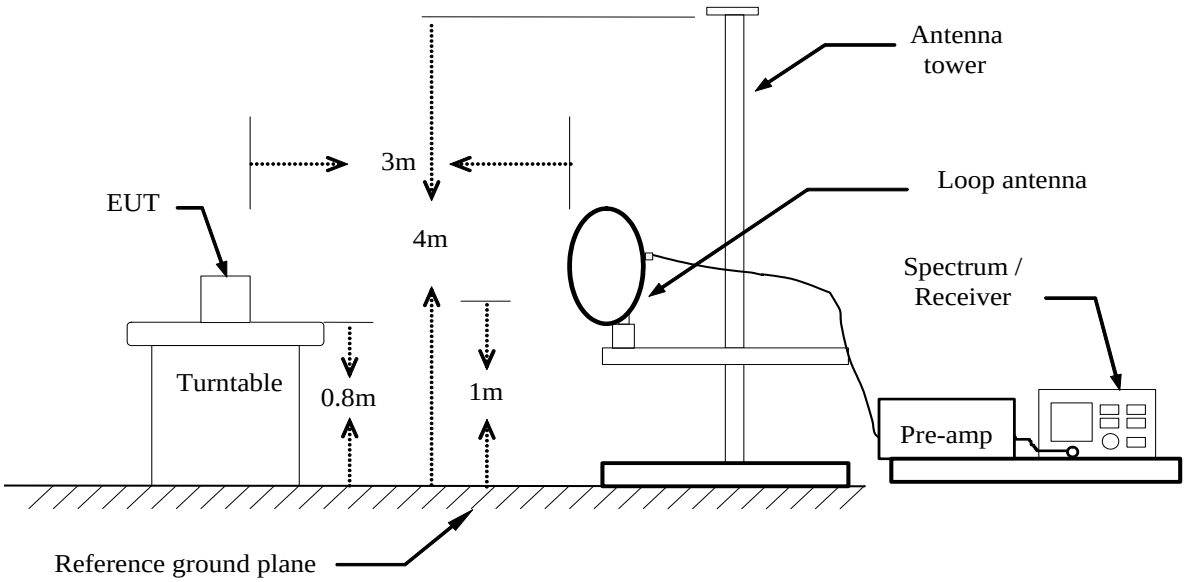
6.7.2 TEST INSTRUMENTS

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	02/21/2016	02/20/2017
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	02/21/2016	02/20/2017
Amplifier	EMEC	EM330	060661	03/18/2016	03/17/2017
High Noise Amplifier	Agilent	8449B	3008A01838	02/21/2016	02/20/2017
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	02/28/2016	02/27/2017
Bilog Antenna	SCHAFFNER	CBL6143	5082	02/21/2016	02/20/2017
Horn Antenna	SCHWARZBECK	BBHA9120	D286	02/28/2016	02/27/2017
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	02/21/2016	02/20/2017
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



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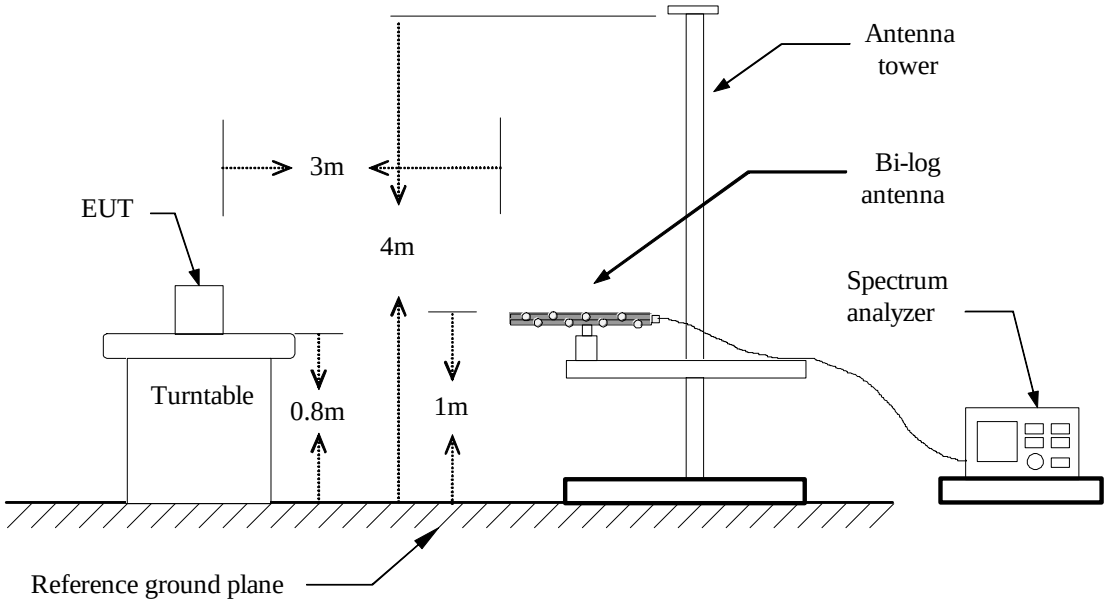
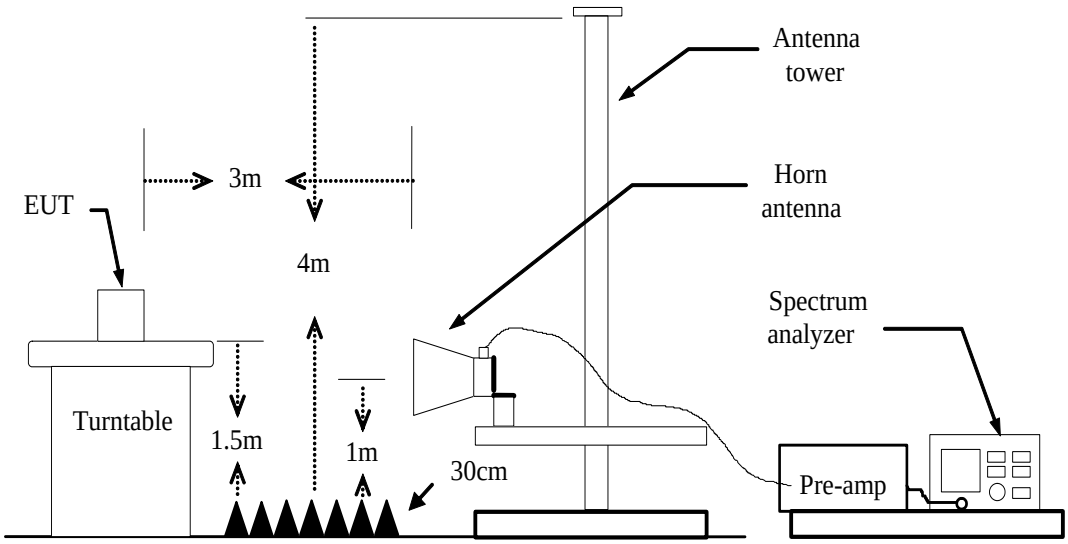
Below 1 GHz



Above 1 GHz



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

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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.

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6.7.5 DATA SAPLE

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

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6.7.6 TEST RESULTS

Below 1 GHz

Test Mode: TX **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** June 29, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
84.3200	51.90	-25.84	26.06	40.00	-13.94	V	QP
95.9600	52.26	-24.11	28.15	43.50	-15.35	V	QP
167.7400	48.60	-22.83	25.77	43.50	-17.73	V	QP
312.2700	48.18	-19.12	29.06	46.00	-16.94	V	QP
659.5300	42.02	-12.39	29.63	46.00	-16.37	V	QP
984.4800	39.27	-9.24	30.03	54.00	-23.97	V	QP
120.2100	50.03	-21.13	28.90	43.50	-14.60	H	QP
147.3700	51.64	-21.63	30.01	43.50	-13.49	H	QP
312.2700	49.24	-19.12	30.12	46.00	-15.88	H	QP
335.5500	49.02	-18.26	30.76	46.00	-15.24	H	QP
829.2800	43.13	-10.56	32.57	46.00	-13.43	H	QP
935.9800	40.94	-9.80	31.14	46.00	-14.86	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).*

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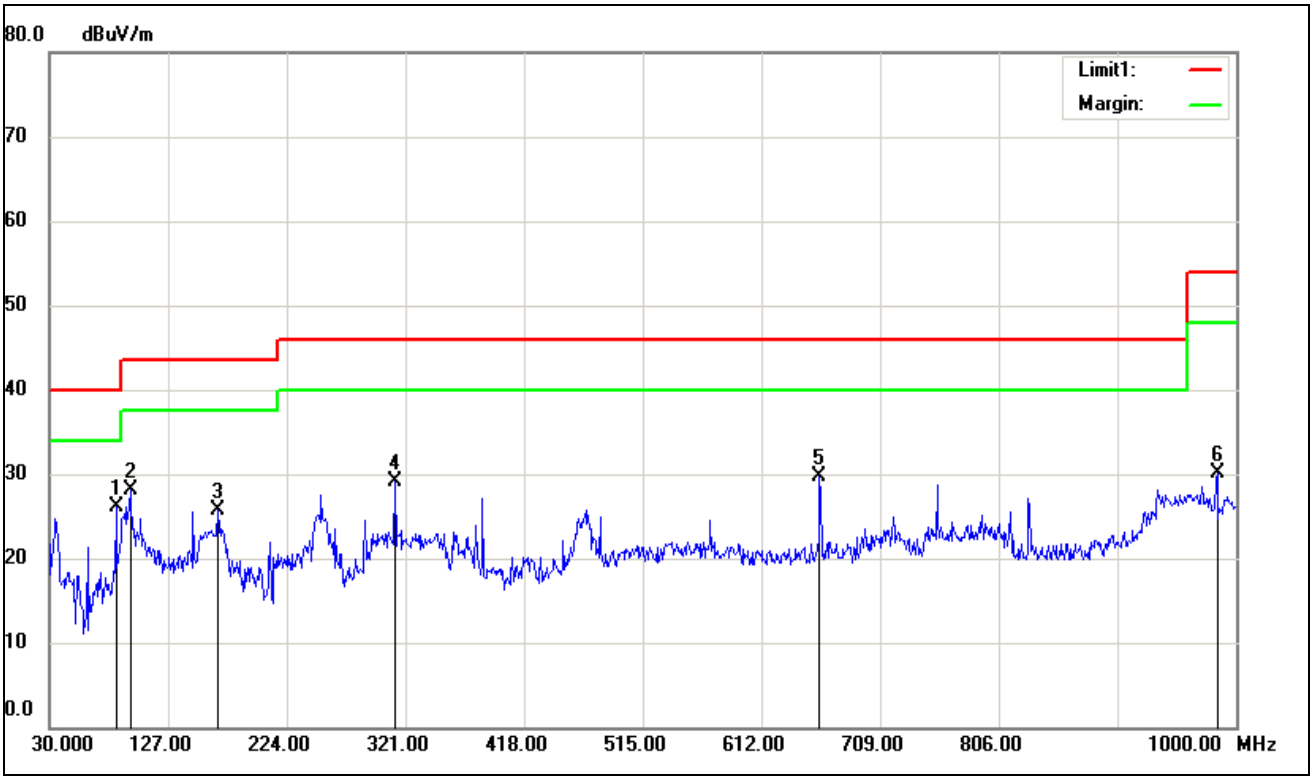
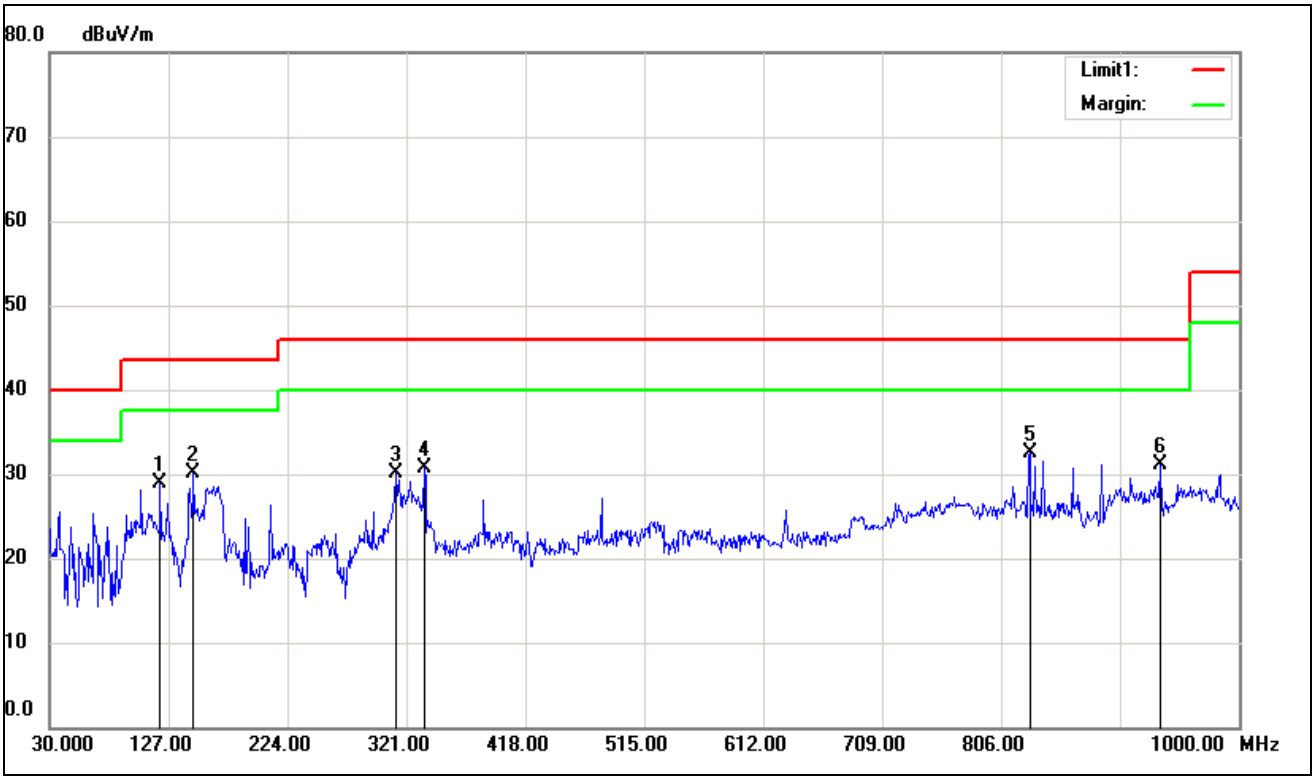
Vertical



Horizontal



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Above 1 GHz

1GHz~6GHz

Test Mode: TX **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** July 5, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2590.0000	51.17	-2.10	49.07	74.00	-24.93	V	peak
2955.0000	44.59	-1.44	43.15	74.00	-30.85	V	peak
3745.0000	42.66	0.51	43.17	74.00	-30.83	V	peak
4150.0000	42.70	2.12	44.82	74.00	-29.18	V	peak
4630.0000	41.95	3.77	45.72	74.00	-28.28	V	peak
5510.0000	43.36	5.87	49.23	74.00	-24.77	V	peak
1505.0000	46.56	-6.87	39.69	74.00	-34.31	H	Peak
2220.0000	45.44	-3.79	41.65	74.00	-32.35	H	Peak
2875.0000	44.36	-1.58	42.78	74.00	-31.22	H	Peak
3825.0000	42.31	0.85	43.16	74.00	-30.84	H	peak
4440.0000	41.81	3.14	44.95	74.00	-29.05	H	peak
4845.0000	43.17	4.47	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).*

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

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** July 5, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7752.0000	31.96	9.17	41.13	74.00	-32.87	V	peak
10356.0000	32.62	13.08	45.70	74.00	-28.30	V	peak
11112.0000	29.87	15.03	44.90	74.00	-29.10	V	peak
12612.0000	29.41	16.67	46.08	74.00	-27.92	V	peak
14460.0000	28.42	20.85	49.27	74.00	-24.73	V	peak
14952.0000	28.46	21.13	49.59	74.00	-24.41	V	peak
7728.0000	31.95	9.12	41.07	74.00	-32.93	H	Peak
9828.0000	30.46	11.48	41.94	74.00	-32.06	H	Peak
11208.0000	29.77	14.99	44.76	74.00	-29.24	H	Peak
12348.0000	29.52	15.79	45.31	74.00	-28.69	H	peak
12936.0000	29.06	17.74	46.80	74.00	-27.20	H	peak
15000.0000	28.40	21.16	49.56	74.00	-24.44	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).*

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

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** July 5, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8436.0000	31.78	9.41	41.19	74.00	-32.81	V	peak
10404.0000	32.36	13.23	45.59	74.00	-28.41	V	peak
11052.0000	29.97	15.06	45.03	74.00	-28.97	V	peak
12228.0000	30.02	15.39	45.41	74.00	-28.59	V	peak
12984.0000	29.09	17.90	46.99	74.00	-27.01	V	peak
14952.0000	28.39	21.13	49.52	74.00	-24.48	V	peak
8232.0000	30.76	9.52	40.28	74.00	-33.72	H	Peak
9612.0000	30.60	10.86	41.46	74.00	-32.54	H	Peak
10512.0000	30.50	13.57	44.07	74.00	-29.93	H	Peak
12984.0000	29.03	17.90	46.93	74.00	-27.07	H	peak
14280.0000	28.23	20.74	48.97	74.00	-25.03	H	peak
14916.0000	28.58	21.11	49.69	74.00	-24.31	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).*

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

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** July 5, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
9960.0000	30.81	11.86	42.67	74.00	-31.33	V	peak
10476.0000	33.52	13.46	46.98	74.00	-27.02	V	peak
11820.0000	30.39	14.72	45.11	74.00	-28.89	V	peak
12672.0000	29.25	16.86	46.11	74.00	-27.89	V	peak
13980.0000	27.31	20.53	47.84	74.00	-26.16	V	peak
15000.0000	28.56	21.16	49.72	74.00	-24.28	V	peak
7764.0000	31.84	9.19	41.03	74.00	-32.97	H	Peak
10296.0000	30.55	12.90	43.45	74.00	-30.55	H	Peak
10860.0000	29.67	14.65	44.32	74.00	-29.68	H	Peak
12492.0000	29.89	16.27	46.16	74.00	-27.84	H	peak
14064.0000	27.80	20.62	48.42	74.00	-25.58	H	peak
14940.0000	28.52	21.13	49.65	74.00	-24.35	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).*

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

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** July 5, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7656.0000	32.14	8.98	41.12	74.00	-32.88	V	Peak
9960.0000	30.76	11.86	42.62	74.00	-31.38	V	Peak
11100.0000	29.84	15.04	44.88	74.00	-29.12	V	Peak
12696.0000	28.79	16.94	45.73	74.00	-28.27	V	Peak
13752.0000	27.37	19.93	47.30	74.00	-26.70	V	Peak
14976.0000	28.70	21.15	49.85	74.00	-24.15	V	Peak
7752.0000	32.08	9.17	41.25	74.00	-32.75	H	Peak
9864.0000	30.54	11.59	42.13	74.00	-31.87	H	Peak
11016.0000	29.74	15.07	44.81	74.00	-29.19	H	Peak
12936.0000	29.40	17.74	47.14	74.00	-26.86	H	Peak
14244.0000	28.26	20.72	48.98	74.00	-25.02	H	Peak
15000.0000	28.71	21.16	49.87	74.00	-24.13	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).*

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

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** July 5, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6960.0000	32.03	7.64	39.67	74.00	-34.33	V	Peak
8364.0000	31.74	9.45	41.19	74.00	-32.81	V	Peak
10056.0000	31.04	12.15	43.19	74.00	-30.81	V	Peak
11832.0000	30.29	14.71	45.00	74.00	-29.00	V	Peak
13080.0000	28.42	18.16	46.58	74.00	-27.42	V	Peak
14460.0000	28.13	20.85	48.98	74.00	-25.02	V	Peak
8352.0000	31.87	9.46	41.33	74.00	-32.67	H	Peak
11064.0000	29.83	15.05	44.88	74.00	-29.12	H	Peak
12396.0000	29.16	15.95	45.11	74.00	-28.89	H	Peak
13008.0000	28.74	17.97	46.71	74.00	-27.29	H	Peak
14052.0000	27.45	20.61	48.06	74.00	-25.94	H	Peak
15000.0000	28.57	21.16	49.73	74.00	-24.27	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).*

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

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** July 5, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8376.0000	31.85	9.44	41.29	74.00	-32.71	V	Peak
11052.0000	30.14	15.06	45.20	74.00	-28.80	V	Peak
11652.0000	31.16	14.79	45.95	74.00	-28.05	V	Peak
12984.0000	29.04	17.90	46.94	74.00	-27.06	V	Peak
14052.0000	27.71	20.61	48.32	74.00	-25.68	V	Peak
14904.0000	28.13	21.10	49.23	74.00	-24.77	V	Peak
8412.0000	31.59	9.42	41.01	74.00	-32.99	H	Peak
10056.0000	30.93	12.15	43.08	74.00	-30.92	H	Peak
10896.0000	29.98	14.76	44.74	74.00	-29.26	H	Peak
12420.0000	29.26	16.03	45.29	74.00	-28.71	H	Peak
14280.0000	28.40	20.74	49.14	74.00	-24.86	H	Peak
14952.0000	28.57	21.13	49.70	74.00	-24.30	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).*

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Test Mode: TX / IEEE 802.11n HT 20 MHz / 5180MHz /(CH Low) **Tested by:** Jack Chen
Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** July 5, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8400.0000	31.75	9.43	41.18	74.00	-32.82	V	Peak
10356.0000	31.92	13.08	45.00	74.00	-29.00	V	Peak
11844.0000	30.34	14.71	45.05	74.00	-28.95	V	Peak
12936.0000	28.95	17.74	46.69	74.00	-27.31	V	Peak
14352.0000	28.05	20.78	48.83	74.00	-25.17	V	Peak
14928.0000	28.49	21.12	49.61	74.00	-24.39	V	Peak
8436.0000	31.78	9.41	41.19	74.00	-32.81	H	Peak
10500.0000	29.63	13.53	43.16	74.00	-30.84	H	Peak
11184.0000	29.38	15.00	44.38	74.00	-29.62	H	Peak
12984.0000	28.40	17.90	46.30	74.00	-27.70	H	Peak
13596.0000	27.30	19.52	46.82	74.00	-27.18	H	Peak
14928.0000	27.74	21.12	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).*

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Test Mode: TX / IEEE 802.11n HT 20 MHz / 5200MHz /(CH Mid) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** July 5, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6924.0000	31.28	7.58	38.86	74.00	-35.14	V	Peak
10404.0000	31.54	13.23	44.77	74.00	-29.23	V	Peak
11844.0000	29.74	14.71	44.45	74.00	-29.55	V	Peak
12816.0000	29.03	17.34	46.37	74.00	-27.63	V	Peak
14388.0000	27.77	20.81	48.58	74.00	-25.42	V	Peak
14868.0000	28.10	21.08	49.18	74.00	-24.82	V	Peak
7728.0000	31.39	9.12	40.51	74.00	-33.49	H	Peak
9996.0000	30.58	11.97	42.55	74.00	-31.45	H	Peak
11040.0000	29.51	15.06	44.57	74.00	-29.43	H	Peak
12648.0000	28.73	16.78	45.51	74.00	-28.49	H	Peak
14460.0000	27.83	20.85	48.68	74.00	-25.32	H	Peak
14916.0000	27.79	21.11	48.90	74.00	-25.10	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).*

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Test Mode: TX / IEEE 802.11n HT 20 MHz / 5240MHz /(CH High) **Tested by:** Ad Gan

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** May 19, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7752.0000	31.37	9.17	40.54	74.00	-33.46	V	peak
10476.0000	31.64	13.46	45.10	74.00	-28.90	V	peak
11844.0000	29.75	14.71	44.46	74.00	-29.54	V	peak
12960.0000	28.71	17.82	46.53	74.00	-27.47	V	peak
14280.0000	28.16	20.74	48.90	74.00	-25.10	V	peak
14964.0000	28.29	21.14	49.43	74.00	-24.57	V	peak
6924.0000	31.44	7.58	39.02	74.00	-34.98	H	Peak
8352.0000	31.36	9.46	40.82	74.00	-33.18	H	Peak
10272.0000	30.14	12.82	42.96	74.00	-31.04	H	Peak
12348.0000	29.26	15.79	45.05	74.00	-28.95	H	peak
14436.0000	27.90	20.83	48.73	74.00	-25.27	H	peak
14880.0000	27.96	21.09	49.05	74.00	-24.95	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).*

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Test Mode: TX / IEEE 802.11n HT 20 MHz / 5745MHz /(CH Low) **Tested by:** Jack Chen
Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** July 5, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8364.0000	31.68	9.45	41.13	74.00	-32.87	V	peak
10524.0000	29.42	13.60	43.02	74.00	-30.98	V	peak
11136.0000	29.36	15.02	44.38	74.00	-29.62	V	peak
12912.0000	28.83	17.66	46.49	74.00	-27.51	V	peak
14244.0000	27.60	20.72	48.32	74.00	-25.68	V	peak
15276.0000	28.14	19.90	48.04	74.00	-25.96	V	peak
6924.0000	31.44	7.58	39.02	74.00	-34.98	H	Peak
8352.0000	31.36	9.46	40.82	74.00	-33.18	H	Peak
10272.0000	30.14	12.82	42.96	74.00	-31.04	H	Peak
12348.0000	29.26	15.79	45.05	74.00	-28.95	H	peak
14436.0000	27.90	20.83	48.73	74.00	-25.27	H	peak
14880.0000	27.96	21.09	49.05	74.00	-24.95	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).*

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Test Mode: TX / IEEE 802.11n HT 20 MHz / 5785MHz /(CH Mid) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** July 5, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
9168.0000	31.05	9.58	40.63	74.00	-33.37	V	peak
10824.0000	29.09	14.53	43.62	74.00	-30.38	V	peak
11844.0000	30.03	14.71	44.74	74.00	-29.26	V	peak
12792.0000	28.79	17.26	46.05	74.00	-27.95	V	peak
13896.0000	26.70	20.31	47.01	74.00	-26.99	V	peak
15000.0000	28.33	21.16	49.49	74.00	-24.51	V	peak
8376.0000	31.43	9.44	40.87	74.00	-33.13	H	Peak
10044.0000	30.27	12.12	42.39	74.00	-31.61	H	Peak
10500.0000	29.73	13.53	43.26	74.00	-30.74	H	Peak
11556.0000	29.58	14.84	44.42	74.00	-29.58	H	peak
12984.0000	28.43	17.90	46.33	74.00	-27.67	H	peak
15024.0000	28.03	21.05	49.08	74.00	-24.92	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).*

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Test Mode: TX / IEEE 802.11n HT 20 MHz / 5825MHz /(CH High) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** July 5, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8340.0000	31.87	9.46	41.33	74.00	-32.67	V	peak
9948.0000	29.92	11.83	41.75	74.00	-32.25	V	peak
11220.0000	29.50	14.98	44.48	74.00	-29.52	V	peak
13032.0000	28.41	18.03	46.44	74.00	-27.56	V	peak
14376.0000	27.88	20.80	48.68	74.00	-25.32	V	peak
15024.0000	28.09	21.05	49.14	74.00	-24.86	V	peak
8364.0000	31.29	9.45	40.74	74.00	-33.26	H	Peak
10020.0000	30.62	12.04	42.66	74.00	-31.34	H	Peak
11208.0000	29.44	14.99	44.43	74.00	-29.57	H	Peak
13008.0000	28.51	17.97	46.48	74.00	-27.52	H	peak
13980.0000	27.59	20.53	48.12	74.00	-25.88	H	peak
15036.0000	28.14	21.00	49.14	74.00	-24.86	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).*

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Test Mode: TX / IEEE 802.11n HT 40 MHz / 5190MHz /(CH Low) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** July 5, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7728.0000	31.66	9.12	40.78	74.00	-33.22	V	peak
9360.0000	30.66	10.14	40.80	74.00	-33.20	V	peak
11328.0000	29.76	14.94	44.70	74.00	-29.30	V	peak
12852.0000	28.65	17.46	46.11	74.00	-27.89	V	peak
13812.0000	26.80	20.09	46.89	74.00	-27.11	V	peak
14988.0000	28.17	21.15	49.32	74.00	-24.68	V	peak
7020.0000	31.60	7.74	39.34	74.00	-34.66	H	Peak
8340.0000	31.50	9.46	40.96	74.00	-33.04	H	Peak
10524.0000	29.58	13.60	43.18	74.00	-30.82	H	Peak
11844.0000	30.26	14.71	44.97	74.00	-29.03	H	peak
14088.0000	27.18	20.63	47.81	74.00	-26.19	H	peak
14988.0000	27.92	21.15	49.07	74.00	-24.93	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).*

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Test Mode: TX / IEEE 802.11n HT 40 MHz / 5230MHz /(CH High) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** July 5, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8412.0000	31.23	9.42	40.65	74.00	-33.35	V	peak
10452.0000	30.86	13.38	44.24	74.00	-29.76	V	peak
11844.0000	30.04	14.71	44.75	74.00	-29.25	V	peak
12612.0000	28.74	16.67	45.41	74.00	-28.59	V	peak
14304.0000	27.90	20.76	48.66	74.00	-25.34	V	peak
15012.0000	27.64	21.11	48.75	74.00	-25.25	V	peak
8364.0000	31.84	9.45	41.29	74.00	-32.71	H	Peak
9612.0000	30.57	10.86	41.43	74.00	-32.57	H	Peak
11040.0000	29.65	15.06	44.71	74.00	-29.29	H	Peak
12960.0000	28.88	17.82	46.70	74.00	-27.30	H	peak
14316.0000	27.90	20.76	48.66	74.00	-25.34	H	peak
14964.0000	28.33	21.14	49.47	74.00	-24.53	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).*

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Test Mode: TX / IEEE 802.11n HT 40 MHz / 5755MHz /(CH Low) **Tested by:** Jack Chen
Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** July 5, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8448.0000	31.91	9.40	41.31	74.00	-32.69	V	peak
10500.0000	29.90	13.53	43.43	74.00	-30.57	V	peak
11856.0000	30.43	14.70	45.13	74.00	-28.87	V	peak
13512.0000	27.40	19.30	46.70	74.00	-27.30	V	peak
14340.0000	27.87	20.78	48.65	74.00	-25.35	V	peak
14916.0000	28.20	21.11	49.31	74.00	-24.69	V	peak
7308.0000	32.30	8.30	40.60	74.00	-33.40	H	Peak
10032.0000	30.73	12.08	42.81	74.00	-31.19	H	Peak
11688.0000	30.33	14.78	45.11	74.00	-28.89	H	Peak
12636.0000	29.01	16.75	45.76	74.00	-28.24	H	peak
14028.0000	27.48	20.60	48.08	74.00	-25.92	H	peak
14916.0000	28.54	21.11	49.65	74.00	-24.35	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).*

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Test Mode: TX / IEEE 802.11n HT 40 MHz / 5795MHz /(CH High) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** July 5, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8436.0000	31.30	9.41	40.71	74.00	-33.29	V	peak
10524.0000	29.93	13.60	43.53	74.00	-30.47	V	peak
11700.0000	30.25	14.77	45.02	74.00	-28.98	V	peak
13104.0000	28.40	18.22	46.62	74.00	-27.38	V	peak
14388.0000	27.87	20.81	48.68	74.00	-25.32	V	peak
15000.0000	28.37	21.16	49.53	74.00	-24.47	V	peak
7764.0000	31.34	9.19	40.53	74.00	-33.47	H	Peak
10524.0000	29.93	13.60	43.53	74.00	-30.47	H	Peak
12348.0000	29.46	15.79	45.25	74.00	-28.75	H	Peak
13104.0000	28.40	18.22	46.62	74.00	-27.38	H	peak
13896.0000	27.73	20.31	48.04	74.00	-25.96	H	peak
15000.0000	28.37	21.16	49.53	74.00	-24.47	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).*

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Test Mode: TX / IEEE 802. 11ac 80 / 5210MHz /(CH Low) **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** July 5, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8376.0000	31.38	9.44	40.82	74.00	-33.18	V	peak
10152.0000	30.30	12.45	42.75	74.00	-31.25	V	peak
11844.0000	30.35	14.71	45.06	74.00	-28.94	V	peak
13056.0000	28.59	18.10	46.69	74.00	-27.31	V	peak
14436.0000	27.89	20.83	48.72	74.00	-25.28	V	peak
15000.0000	28.45	21.16	49.61	74.00	-24.39	V	peak
7644.0000	30.72	8.96	39.68	74.00	-34.32	H	Peak
8412.0000	31.50	9.42	40.92	74.00	-33.08	H	Peak
11172.0000	29.55	15.00	44.55	74.00	-29.45	H	Peak
12936.0000	28.86	17.74	46.60	74.00	-27.40	H	peak
14460.0000	27.96	20.85	48.81	74.00	-25.19	H	peak
15036.0000	28.26	21.00	49.26	74.00	-24.74	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).*

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Test Mode: TX / IEEE 802.11ac 80 / 5775MHz **Tested by:** Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** July 5, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7308.0000	33.23	8.30	41.53	74.00	-32.47	V	peak
10020.0000	30.53	12.04	42.57	74.00	-31.43	V	peak
11304.0000	29.51	14.95	44.46	74.00	-29.54	V	peak
12984.0000	28.79	17.90	46.69	74.00	-27.31	V	peak
14052.0000	27.14	20.61	47.75	74.00	-26.25	V	peak
14928.0000	28.46	21.12	49.58	74.00	-24.42	V	peak
9936.0000	30.10	11.80	41.90	74.00	-32.10	H	Peak
10980.0000	29.07	15.02	44.09	74.00	-29.91	H	Peak
11316.0000	29.50	14.94	44.44	74.00	-29.56	H	Peak
12468.0000	28.70	16.19	44.89	74.00	-29.11	H	peak
12960.0000	28.74	17.82	46.56	74.00	-27.44	H	peak
14736.0000	27.82	21.01	48.83	74.00	-25.17	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).*

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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.

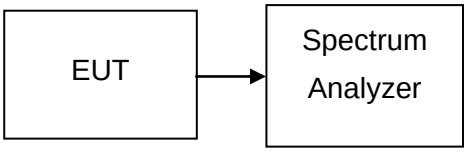
(3) The provisions of §15.205 apply to intentional radiators operating under this section.

6.8.2 MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	N9010A	MY52221469	02/21/2016	02/20/2017

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.

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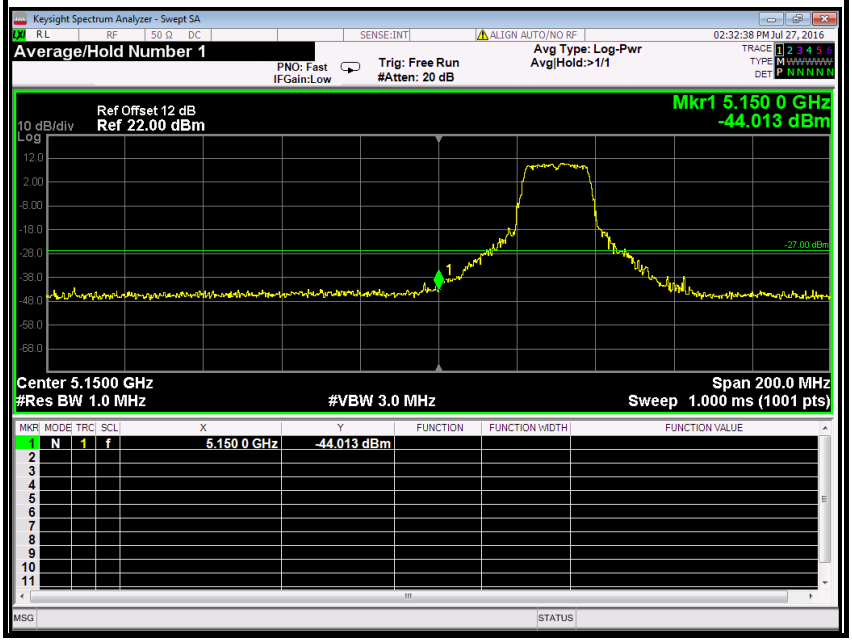
6.8.5 TEST RESULTS

No non-compliance noted

Test Plot

IEEE 802.11a mode / 5180 ~ 5240MHz

CH Low



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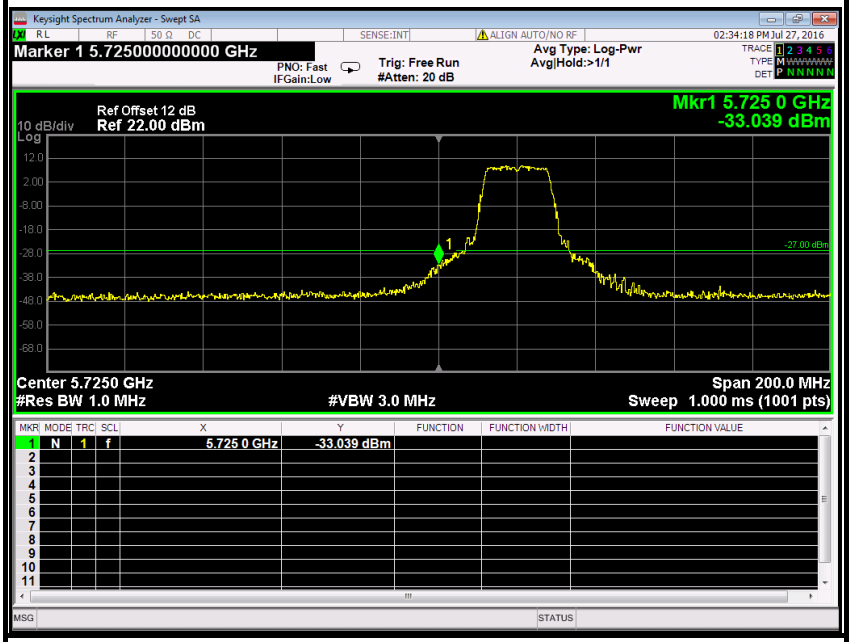
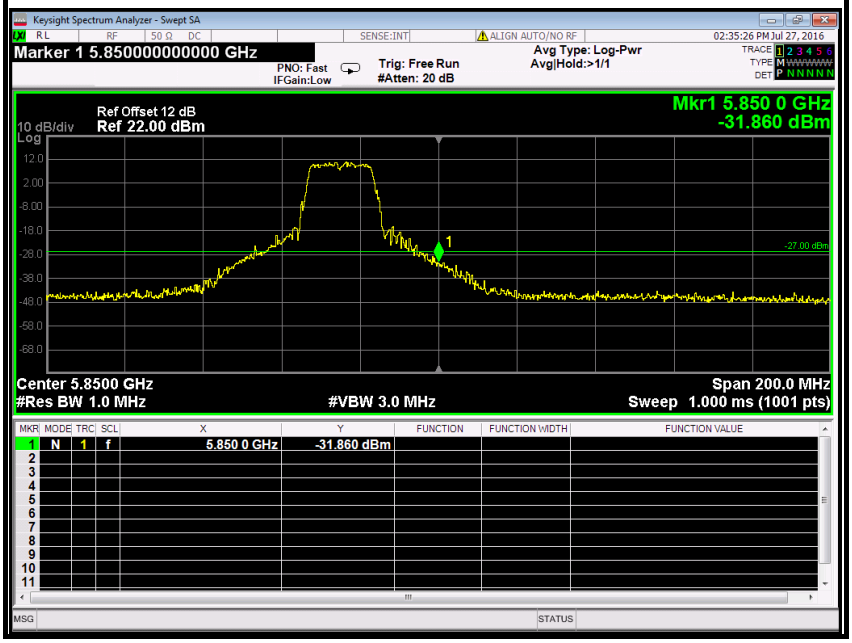
IEEE 802.11a mode / 5745 ~ 5825MHz

CH Low



CH High



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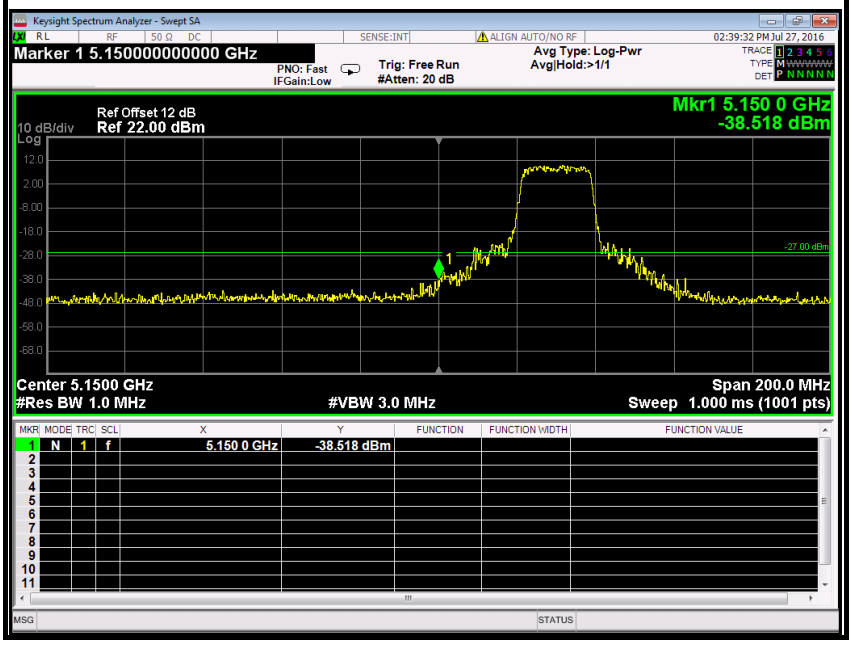
IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz

CH Low



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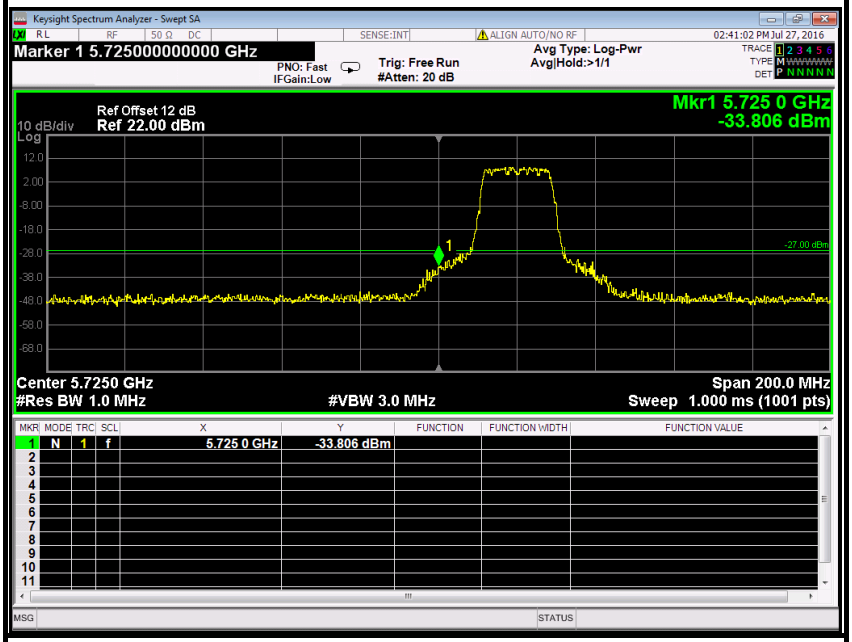
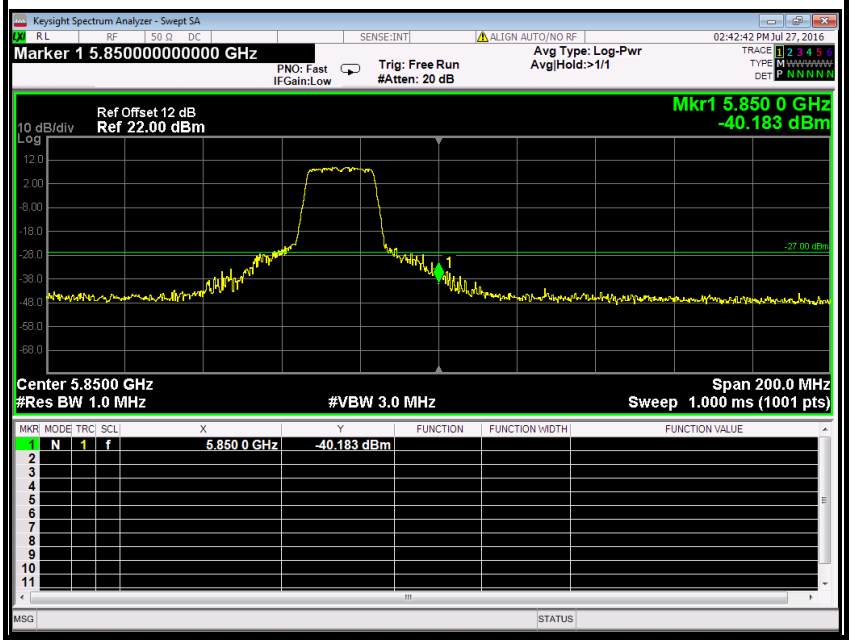
IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

CH Low



CH High



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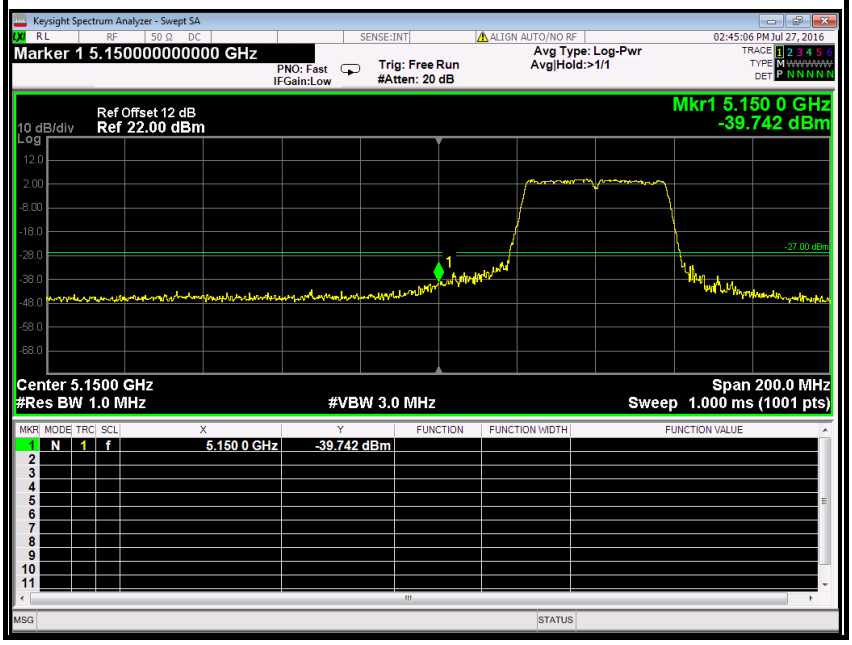
IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz

CH Low



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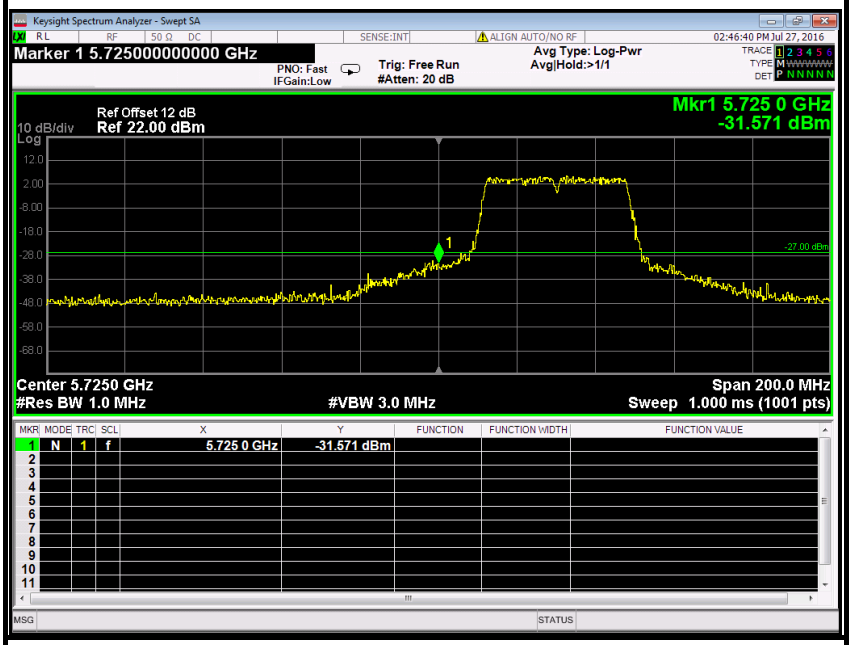
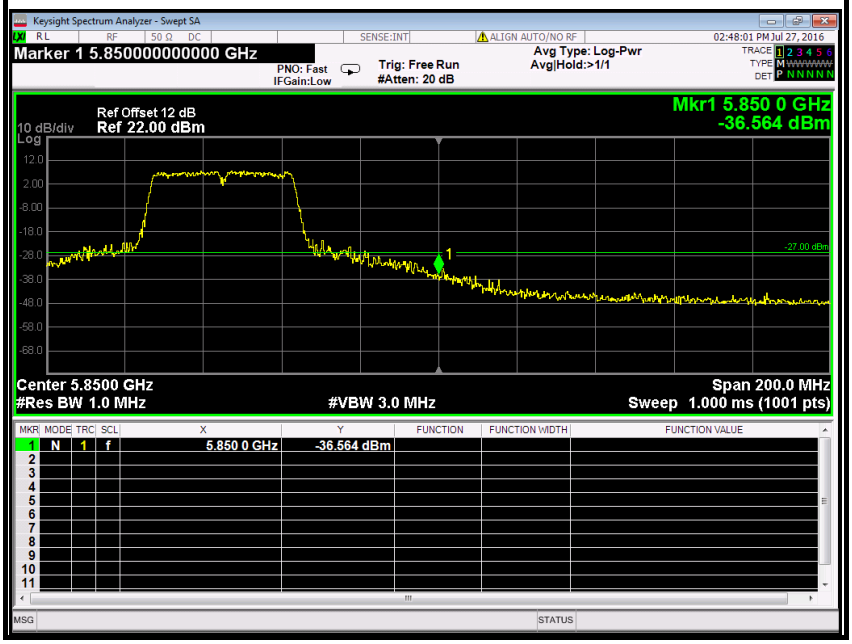
IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

CH Low



CH High



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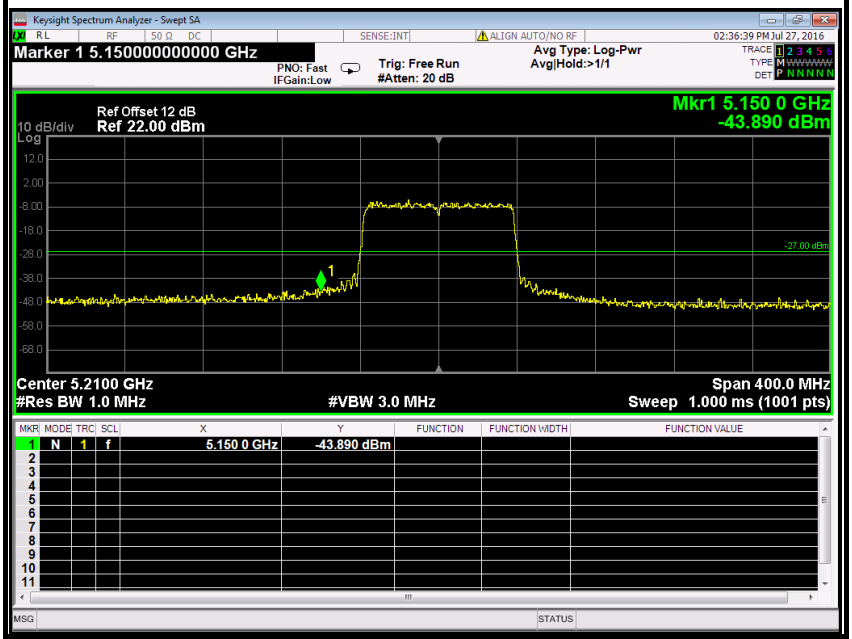
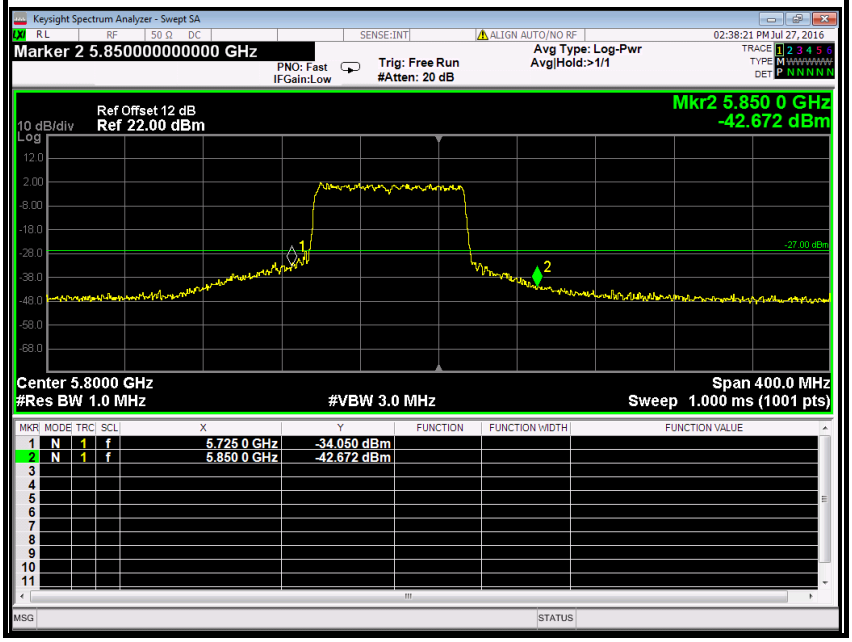
IEEE 802.11ac 80 mode / 5210MHz



IEEE 802.11ac 80 mode / 5775MHz



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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	02/21/2016	02/20/2017
LISN(EUT)	ROHDE&SCHWARZ	ENV216	101543-WX	02/21/2016	02/20/2017
LISN	EMCO	3825/2	8901-1459	02/21/2016	02/20/2017
Temp. / Humidity Meter	VICTOR	HTC-1	N/A	02/21/2016	02/20/2017
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.

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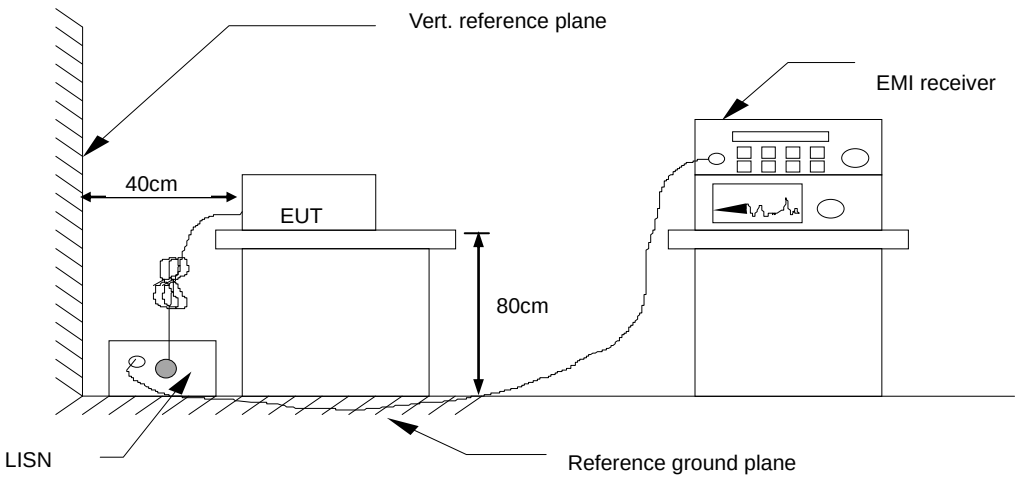
6.9.3 TEST CONFIGURATION



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)

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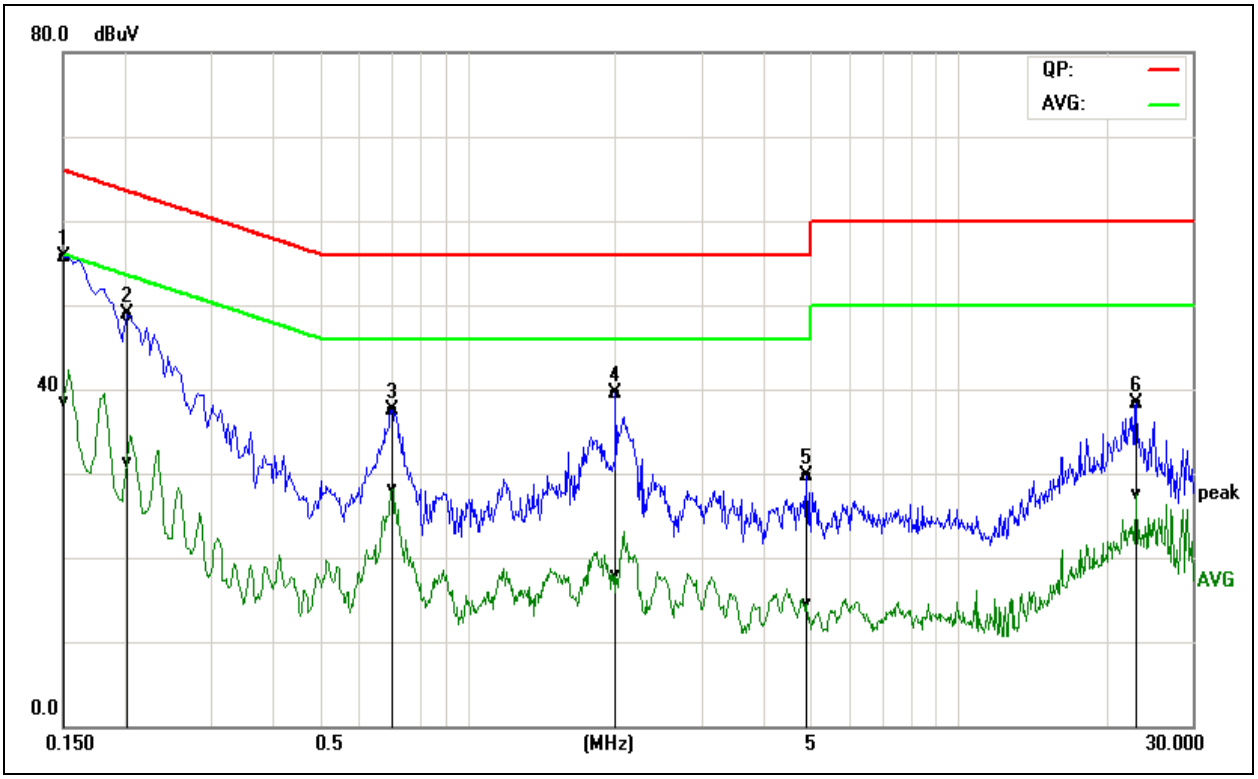
6.9.6 TEST RESULTS

Model No.	WR7502	**RBW,VBW**	9 kHz
Environmental Conditions	22°C, 45% RH	**Test Mode**	Mode 2
Tested by	Saber Huang	**Line**	L1
Tested Date	2016/06/27		

(The chart below shows the highest readings taken from the final data.)



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)
0.1500	46.18	28.86	9.58	55.76	38.44	65.99	56.00	-10.23	-17.56	Pass
0.2020	39.11	21.58	9.69	48.80	31.27	63.52	53.53	-14.72	-22.26	Pass
0.7019	27.68	18.23	9.79	37.47	28.02	56.00	46.00	-18.53	-17.98	Pass
2.0020	29.77	8.27	9.73	39.50	18.00	56.00	46.00	-16.50	-28.00	Pass
4.9220	20.11	4.75	9.68	29.79	14.43	56.00	46.00	-26.21	-31.57	Pass
23.1299	28.43	17.62	9.87	38.30	27.49	60.00	50.00	-21.70	-22.51	Pass

REMARKS: *L1 = Line One (Live Line)*

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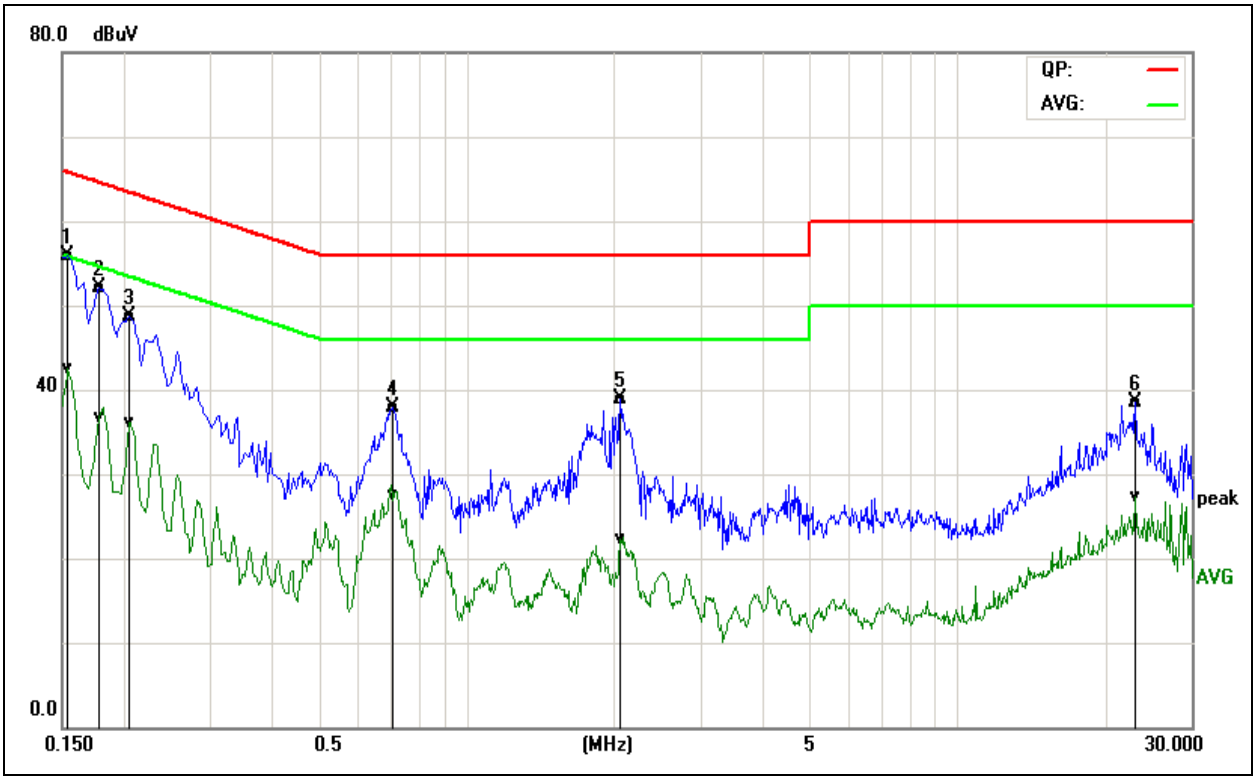
Model No.	WR7502	**RBW,VBW**	9 kHz
Environmental Conditions	22°C, 45% RH	**Test Mode**	Mode 2
Tested by	Saber Huang	**Line**	L2
Tested Date	2016/06/27		

(The chart below shows the highest readings taken from the final data.)



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)
0.1539	46.07	32.65	9.78	55.85	42.43	65.78	55.79	-9.93	-13.36	Pass
0.1780	42.33	26.83	9.79	52.12	36.62	64.57	54.58	-12.45	-17.96	Pass
0.2060	38.98	26.33	9.79	48.77	36.12	63.36	53.37	-14.59	-17.25	Pass
0.7060	28.24	17.75	9.69	37.93	27.44	56.00	46.00	-18.07	-18.56	Pass
2.0620	29.11	12.55	9.73	38.84	22.28	56.00	46.00	-17.16	-23.72	Pass
23.1259	28.67	17.49	9.77	38.44	27.26	60.00	50.00	-21.56	-22.74	Pass

REMARKS: *L2 = Line Two (Neutral Line).*

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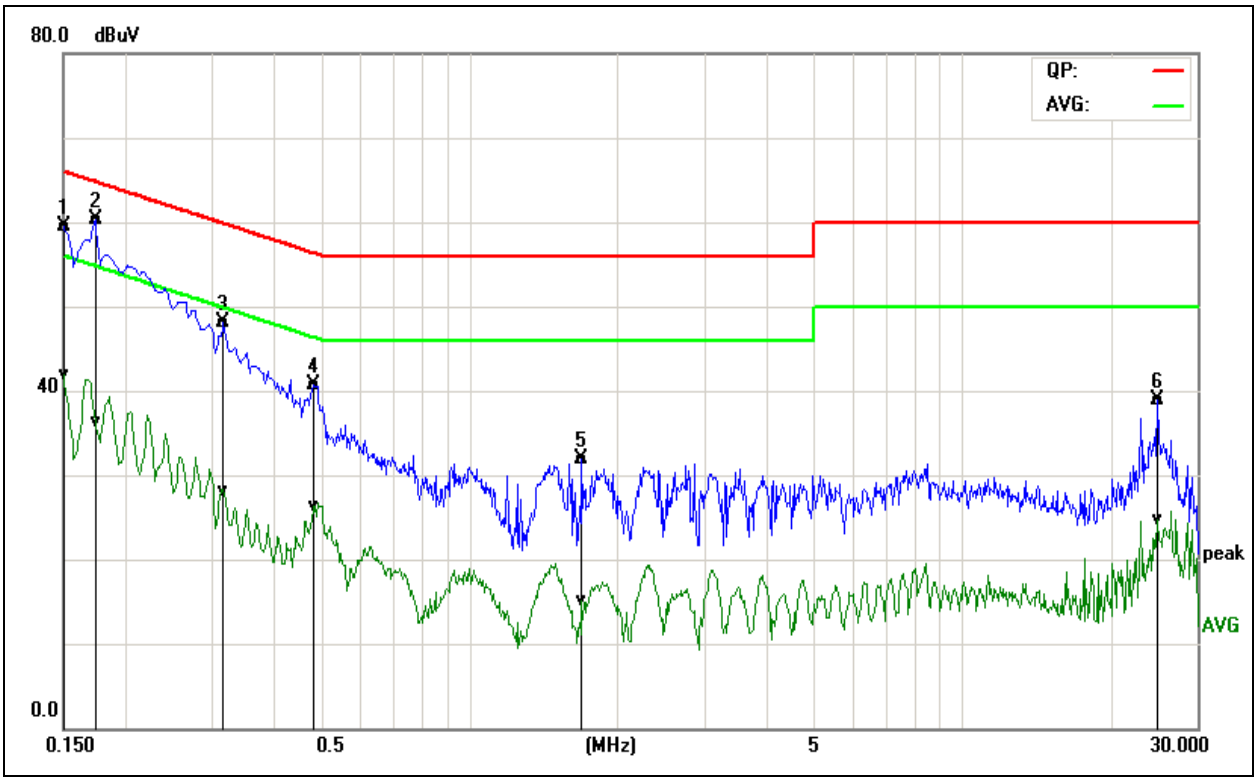
Model No.	WR7502	**RBW,VBW**	9 kHz
Environmental Conditions	22°C, 45% RH	**Test Mode**	Mode 4
Tested by	Saber Huang	**Line**	L1
Tested Date	2016/06/27		

(The chart below shows the highest readings taken from the final data.)



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)
0.1500	49.92	32.30	9.58	59.50	41.88	65.99	56.00	-6.49	-14.12	Pass
0.1740	50.74	26.62	9.63	60.37	36.25	64.76	54.77	-4.39	-18.52	Pass
0.3180	38.39	18.37	9.69	48.08	28.06	59.76	49.76	-11.68	-21.70	Pass
0.4820	31.04	16.68	9.68	40.72	26.36	56.30	46.30	-15.58	-19.94	Pass
1.6940	22.12	5.33	9.72	31.84	15.05	56.00	46.00	-24.16	-30.95	Pass
24.8819	28.95	14.77	9.89	38.84	24.66	60.00	50.00	-21.16	-25.34	Pass

REMARKS: *L1 = Line One (Live Line)*

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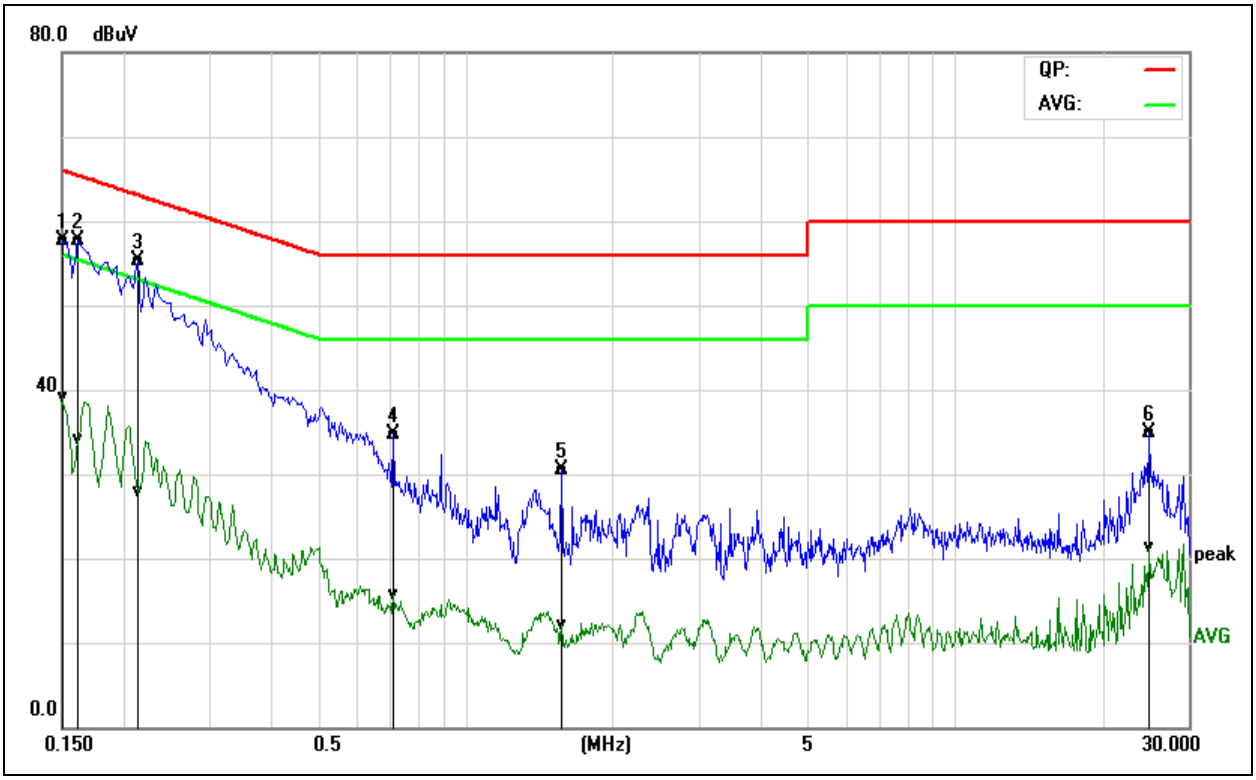
Model No.	WR7502	**RBW,VBW**	9 kHz
Environmental Conditions	22°C, 45% RH	**Test Mode**	Mode 4
Tested by	Saber Huang	**Line**	L2
Tested Date	2016/06/27		

(The chart below shows the highest readings taken from the final data.)



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)
0.1500	47.89	29.26	9.78	57.67	39.04	65.99	56.00	-8.32	-16.96	Pass
0.1620	47.89	24.32	9.78	57.67	34.10	65.36	55.36	-7.69	-21.26	Pass
0.2140	45.43	18.14	9.79	55.22	27.93	63.04	53.05	-7.82	-25.12	Pass
0.7140	24.95	5.96	9.69	34.64	15.65	56.00	46.00	-21.36	-30.35	Pass
1.5740	20.66	2.26	9.76	30.42	12.02	56.00	46.00	-25.58	-33.98	Pass
25.0419	25.12	11.56	9.79	34.91	21.35	60.00	50.00	-25.09	-28.65	Pass

REMARKS: *L2 = Line Two (Neutral Line).*

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6.10 FREQUENCY STABILITY

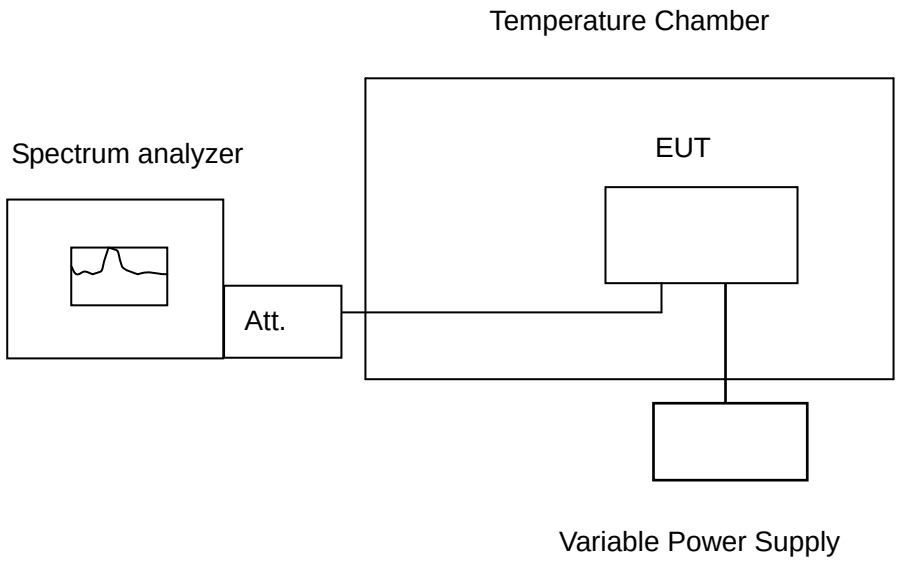
6.10.1 LIMIT

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	N9010A	MY52221469	02/21/2016	02/20/2017
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	02/21/2016	02/20/2017
Power Sensor	Anritsu	MA2411B	1126150	02/21/2016	02/20/2017
Temperature Chamber	TERCHY	MHG-800N	E21104	11/18/2015	11/17/2016
Temp. / Humidity Meter	Anymetre	JR913	N/A	02/21/2016	02/20/2017

6.10.3 TEST CONFIGURATION



Remark: *Measurement setup for testing on Antenna connector*

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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.

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Test Data

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

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5179.953812	5150-5250	PASS
40	120	5179.968727	5150-5250	PASS
30	120	5179.980338	5150-5250	PASS
20	120	5180.005700	5150-5250	PASS
10	120	5179.961398	5150-5250	PASS
0	120	5179.982194	5150-5250	PASS
-10	120	5179.960144	5150-5250	PASS
-20	120	5179.951849	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5179.957327	5150-5250	PASS
	120	5180.005700	5150-5250	PASS
	132	5179.978837	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	5239.981272	5150-5250	PASS
40	120	5239.950123	5150-5250	PASS
30	120	5239.958917	5150-5250	PASS
20	120	5240.013300	5150-5250	PASS
10	120	5239.995085	5150-5250	PASS
0	120	5239.955580	5150-5250	PASS
-10	120	5239.973277	5150-5250	PASS
-20	120	5239.966632	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5239.972503	5150-5250	PASS
	120	5240.013300	5150-5250	PASS
	132	5239.968376	5150-5250	PASS

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

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5744.995766	5725-5850	PASS
40	120	5744.994507	5725-5850	PASS
30	120	5744.987593	5725-5850	PASS
20	120	5745.014800	5725-5850	PASS
10	120	5744.998777	5725-5850	PASS
0	120	5744.964256	5725-5850	PASS
-10	120	5744.994439	5725-5850	PASS
-20	120	5744.969893	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5744.956809	5725-5850	PASS
	120	5745.014800	5725-5850	PASS
	132	5744.973853	5725-5850	PASS

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

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5824.956359	5725-5850	PASS
40	120	5824.967186	5725-5850	PASS
30	120	5824.960523	5725-5850	PASS
20	120	5824.997520	5725-5850	PASS
10	120	5824.976239	5725-5850	PASS
0	120	5824.953436	5725-5850	PASS
-10	120	5824.972920	5725-5850	PASS
-20	120	5824.962510	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5824.980674	5725-5850	PASS
	120	5825.016700	5725-5850	PASS
	132	5824.982873	5725-5850	PASS

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

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5179.995839	5150-5250	PASS
40	120	5179.975411	5150-5250	PASS
30	120	5179.973991	5150-5250	PASS
20	120	5180.004600	5150-5250	PASS
10	120	5179.981135	5150-5250	PASS
0	120	5179.968029	5150-5250	PASS
-10	120	5179.996964	5150-5250	PASS
-20	120	5179.952940	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5239.955925	5150-5250	PASS
	120	5240.012800	5150-5250	PASS
	132	5239.978237	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	5239.975624	5150-5250	PASS
40	120	5239.980822	5150-5250	PASS
30	120	5239.993275	5150-5250	PASS
20	120	5240.012800	5150-5250	PASS
10	120	5239.975954	5150-5250	PASS
0	120	5239.989707	5150-5250	PASS
-10	120	5239.970581	5150-5250	PASS
-20	120	5239.952804	5150-5250	PASS

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

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

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5744.998738	5725-5850	PASS
40	120	5744.988126	5725-5850	PASS
30	120	5744.959064	5725-5850	PASS
20	120	5745.013800	5725-5850	PASS
10	120	5744.984064	5725-5850	PASS
0	120	5744.976982	5725-5850	PASS
-10	120	5744.961636	5725-5850	PASS
-20	120	5744.992436	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5744.988892	5725-5850	PASS
	120	5745.013800	5725-5850	PASS
	132	5744.950267	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	5824.966283	5725-5850	PASS
40	120	5824.977125	5725-5850	PASS
30	120	5824.987762	5725-5850	PASS
20	120	5824.997630	5725-5850	PASS
10	120	5825.016200	5725-5850	PASS
0	120	5824.974237	5725-5850	PASS
-10	120	5824.960419	5725-5850	PASS
-20	120	5824.996387	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5824.961899	5725-5850	PASS
	120	5825.016200	5725-5850	PASS
	132	5824.996690	5725-5850	PASS

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

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5189.997917	5150-5250	PASS
40	120	5189.973441	5150-5250	PASS
30	120	5189.968983	5150-5250	PASS
20	120	5190.014800	5150-5250	PASS
10	120	5189.957007	5150-5250	PASS
0	120	5189.981898	5150-5250	PASS
-10	120	5189.966647	5150-5250	PASS
-20	120	5189.954796	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5189.984528	5150-5250	PASS
	120	5190.014800	5150-5250	PASS
	132	5189.980890	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	5229.961703	5150-5250	PASS
40	120	5229.968755	5150-5250	PASS
30	120	5229.959424	5150-5250	PASS
20	120	5230.012700	5150-5250	PASS
10	120	5229.991035	5150-5250	PASS
0	120	5229.951332	5150-5250	PASS
-10	120	5229.954724	5150-5250	PASS
-20	120	5229.968268	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5229.954286	5150-5250	PASS
	120	5230.012700	5150-5250	PASS
	132	5229.955495	5150-5250	PASS

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

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5754.951406	5725-5850	PASS
40	120	5754.981281	5725-5850	PASS
30	120	5754.988205	5725-5850	PASS
20	120	5755.016300	5725-5850	PASS
10	120	5754.972107	5725-5850	PASS
0	120	5754.963579	5725-5850	PASS
-10	120	5754.981367	5725-5850	PASS
-20	120	5754.973120	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5754.961083	5725-5850	PASS
	120	5755.016300	5725-5850	PASS
	132	5754.968517	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	5794.989866	5725-5850	PASS
40	120	5794.970109	5725-5850	PASS
30	120	5794.966003	5725-5850	PASS
20	120	5795.020200	5725-5850	PASS
10	120	5794.954600	5725-5850	PASS
0	120	5794.985701	5725-5850	PASS
-10	120	5794.983837	5725-5850	PASS
-20	120	5794.956241	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5794.987643	5725-5850	PASS
	120	5795.020200	5725-5850	PASS
	132	5794.979272	5725-5850	PASS

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IEEE 802.11ac 80 mode / 5210MHz

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5209.993412	5150-5250	PASS
40	120	5209.968500	5150-5250	PASS
30	120	5209.983231	5150-5250	PASS
20	120	5210.017400	5150-5250	PASS
10	120	5209.989080	5150-5250	PASS
0	120	5209.993323	5150-5250	PASS
-10	120	5209.953351	5150-5250	PASS
-20	120	5209.981586	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5209.970956	5150-5250	PASS
	120	5210.017400	5150-5250	PASS
	132	5209.967509	5150-5250	PASS

IEEE 802.11ac 80 mode / 5775MHz

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5774.965059	5725-5850	PASS
40	120	5774.991785	5725-5850	PASS
30	120	5774.967096	5725-5850	PASS
20	120	5775.020300	5725-5850	PASS
10	120	5774.956718	5725-5850	PASS
0	120	5774.992192	5725-5850	PASS
-10	120	5774.982797	5725-5850	PASS
-20	120	5774.980751	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5774.975291	5725-5850	PASS
	120	5775.020300	5725-5850	PASS
	132	5774.984084	5725-5850	PASS

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