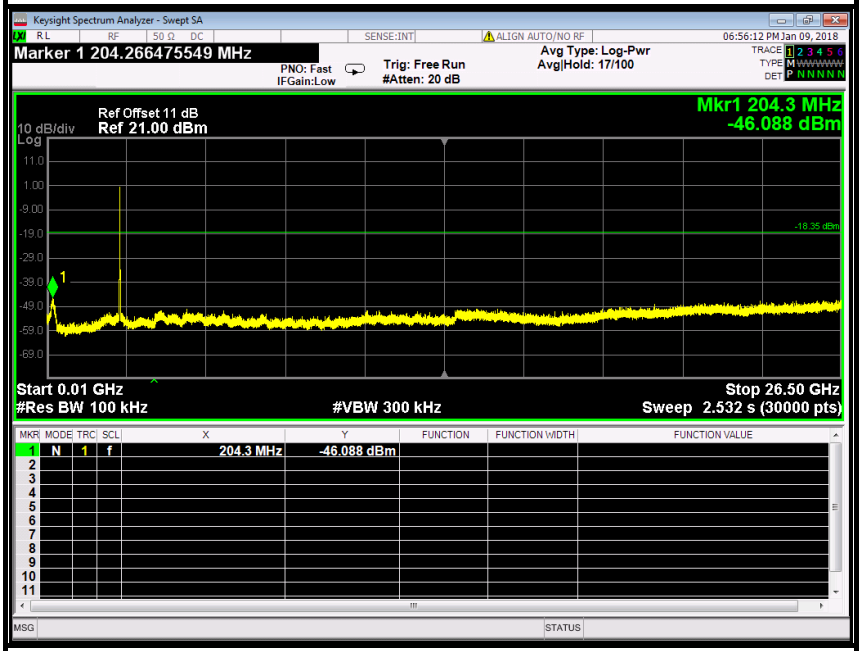
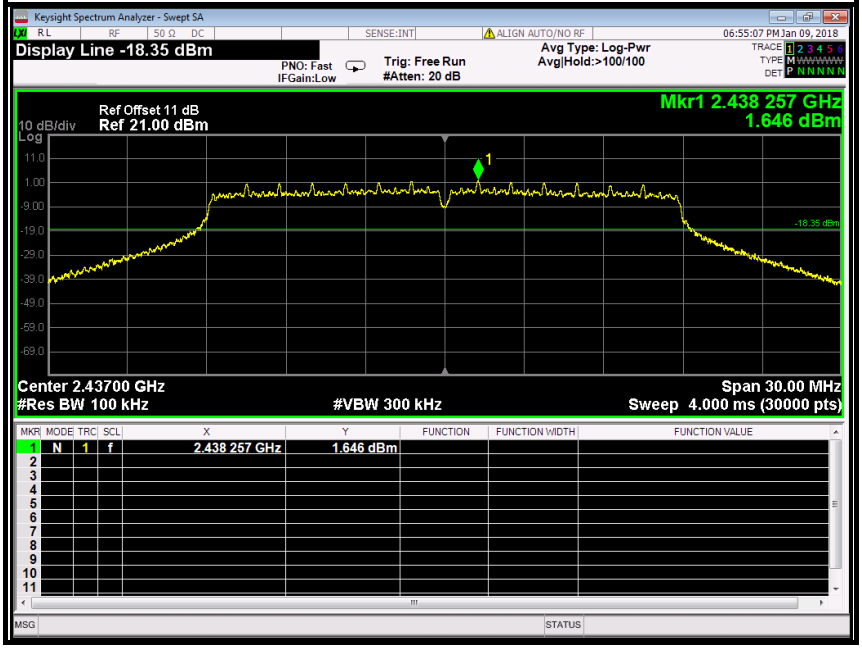
CH Mid (10MHz ~26.5GHz)



CH Mid



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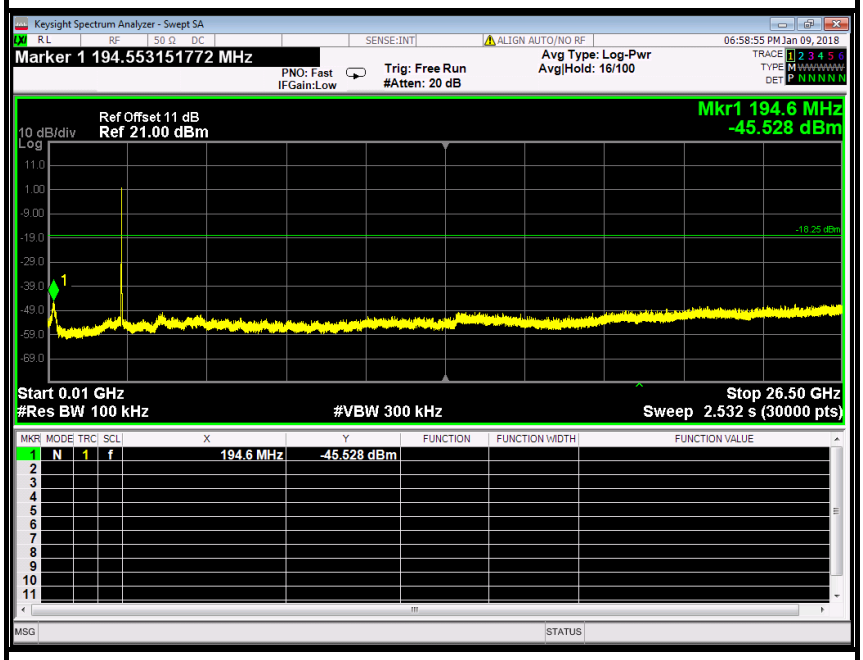
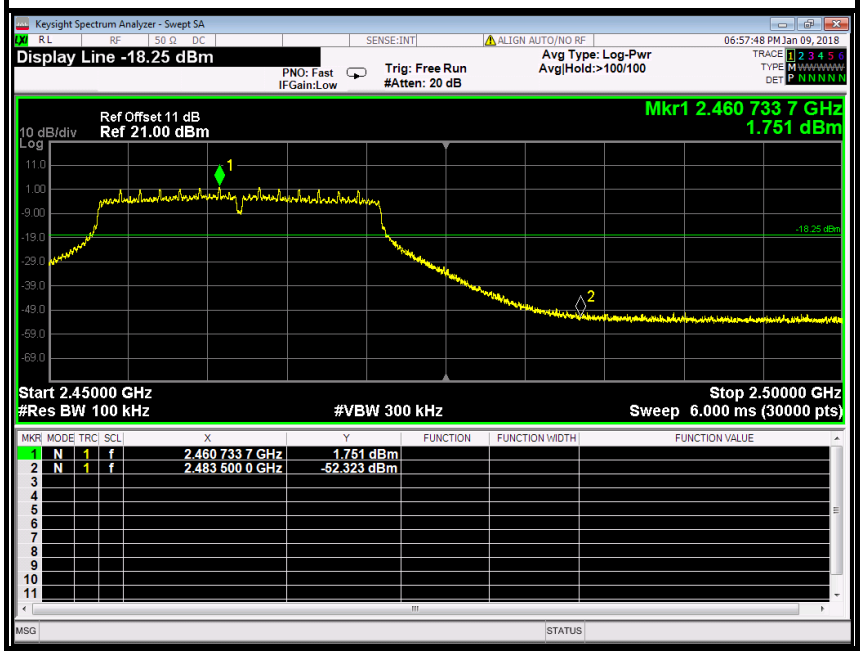
CH High (10MHz ~26.5GHz)



CH High (2.45GHz ~2.5GHz)



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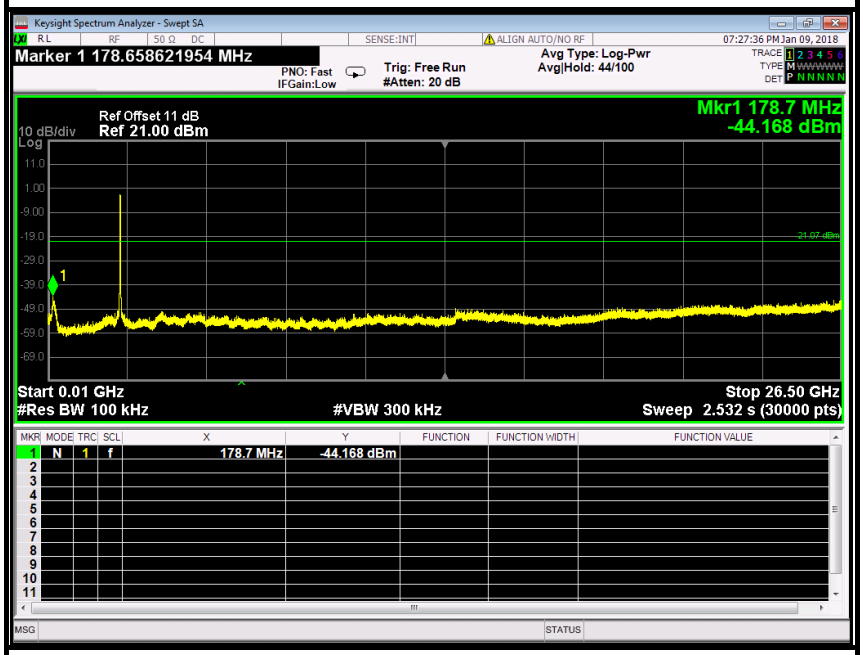
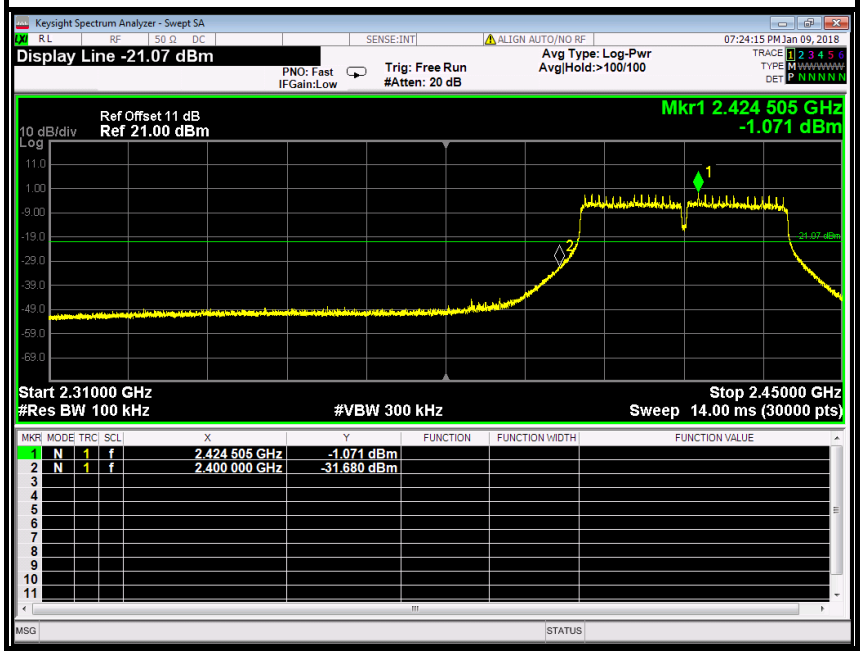
IEEE 802.11n HT20 MHz mode (antenna 3)

CH Low (10MHz ~26.5GHz)



CH Low (2.31GHz ~2.43GHz)



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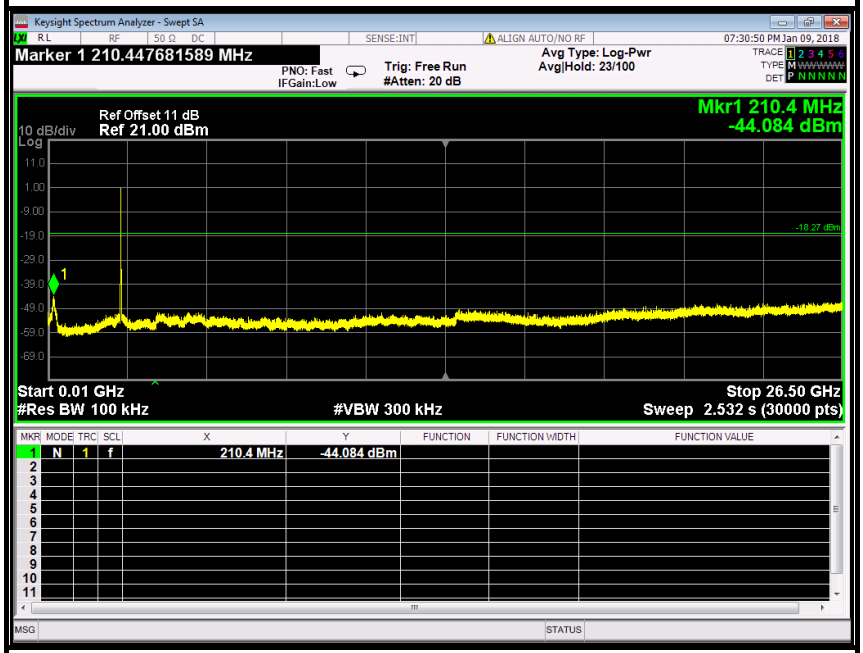
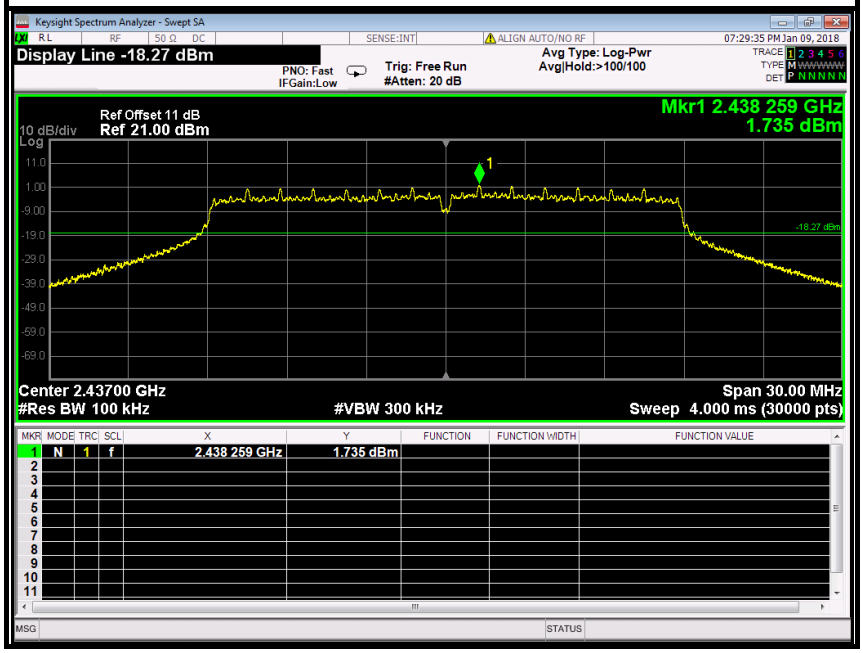
CH Mid (10MHz ~26.5GHz)



CH Mid



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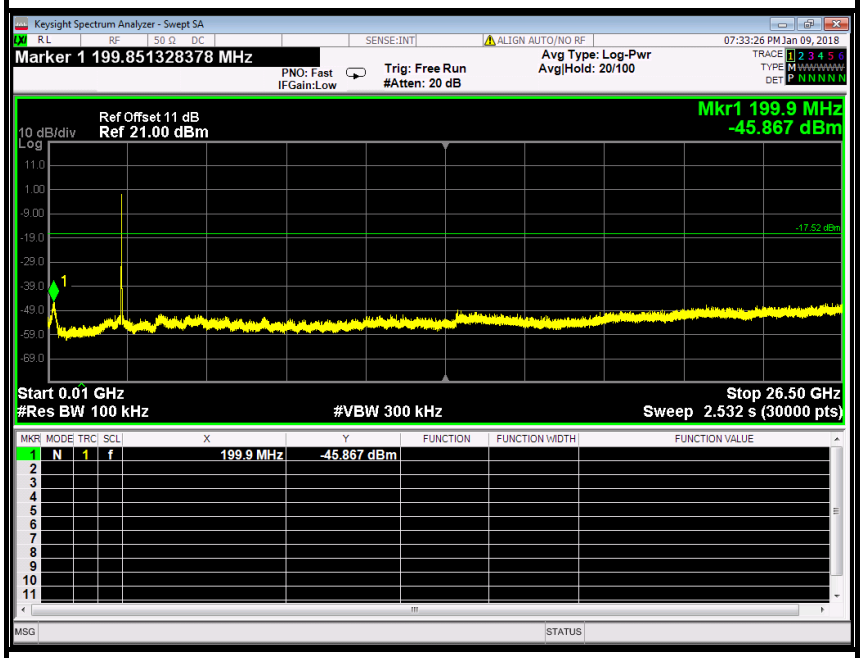
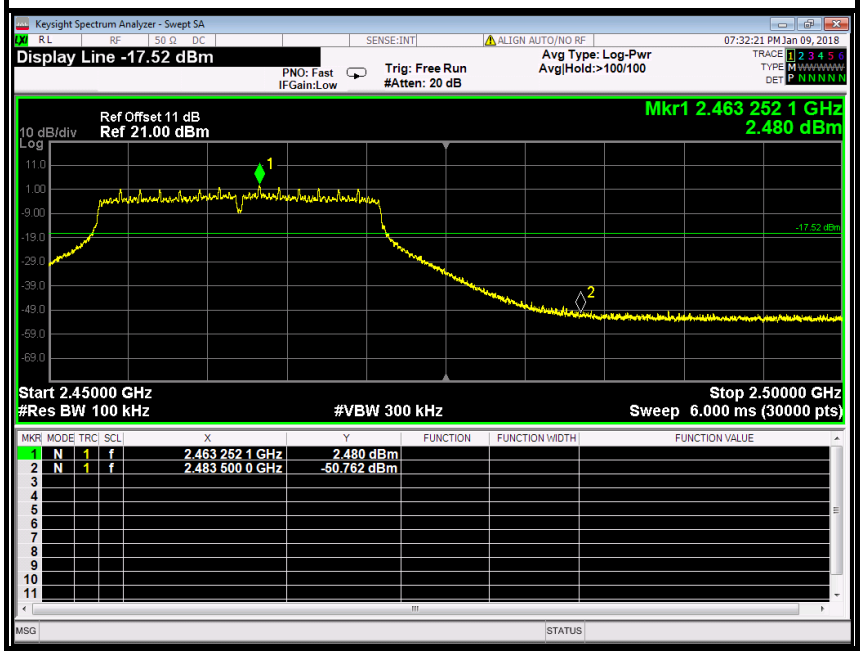
CH High (10MHz ~26.5GHz)



CH High (2.45GHz ~2.5GHz)



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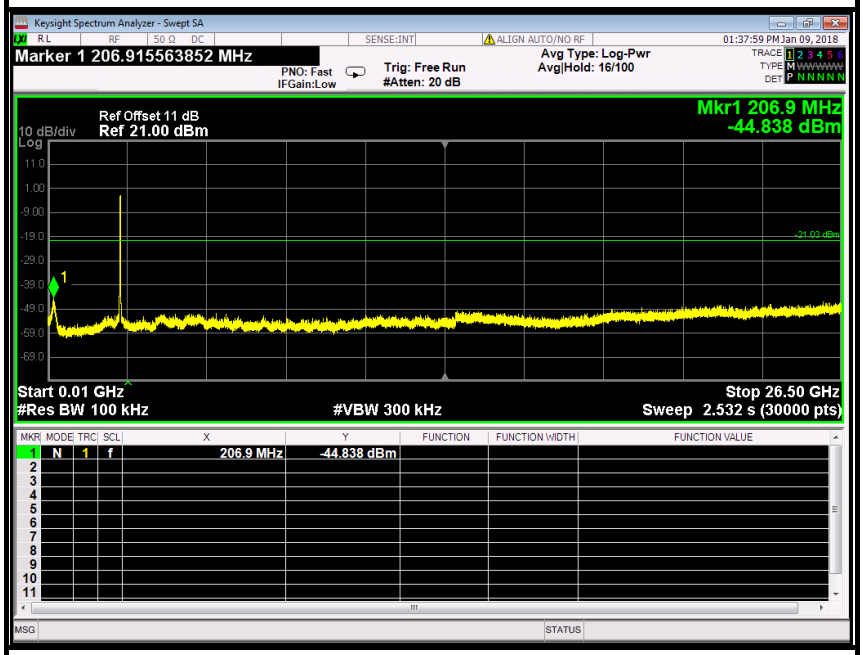
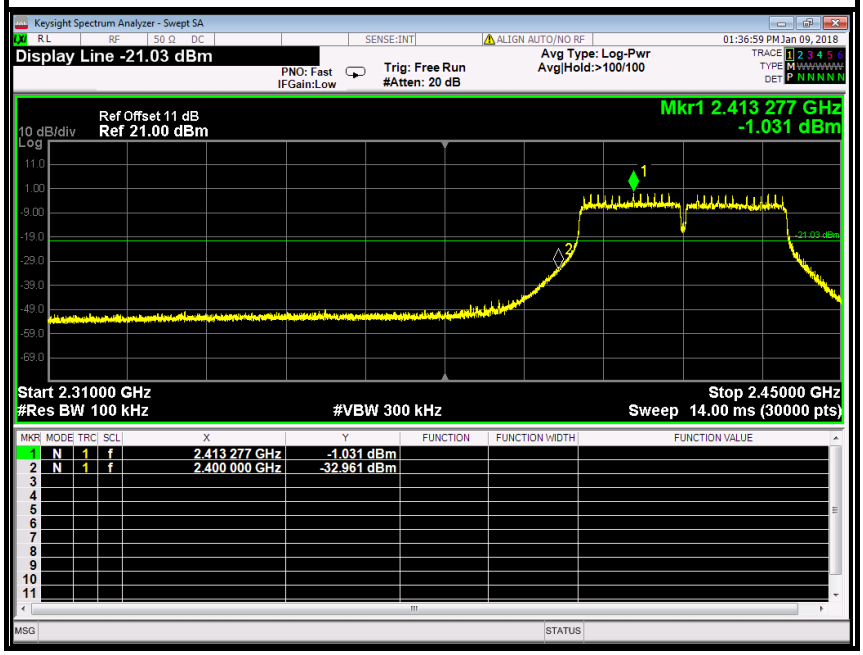
IEEE 802.11n HT40 MHz mode (antenna 0)

CH Low (10MHz ~26.5GHz)



CH Low (2.31GHz ~2.45GHz)



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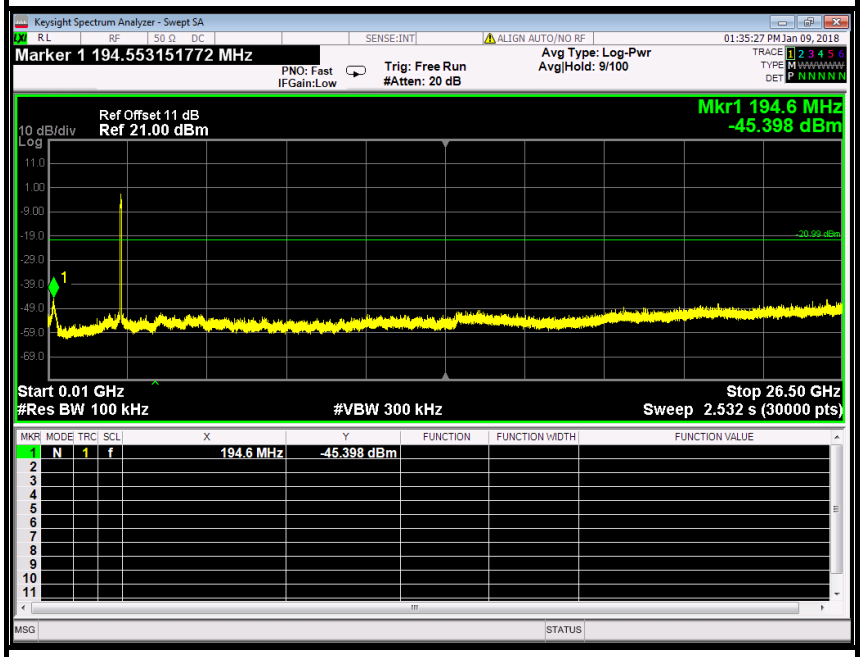
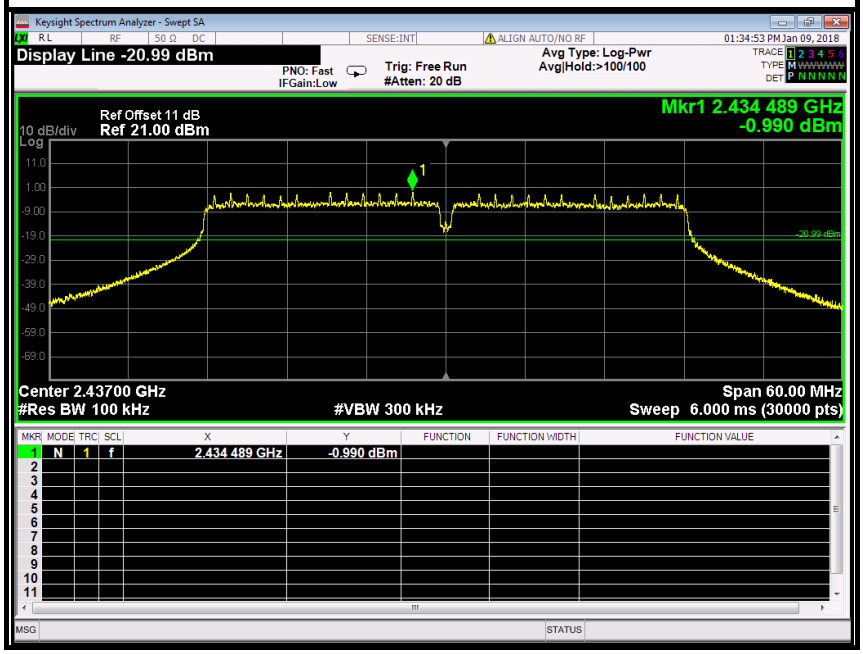
CH Mid (10MHz ~26.5GHz)



CH Mid



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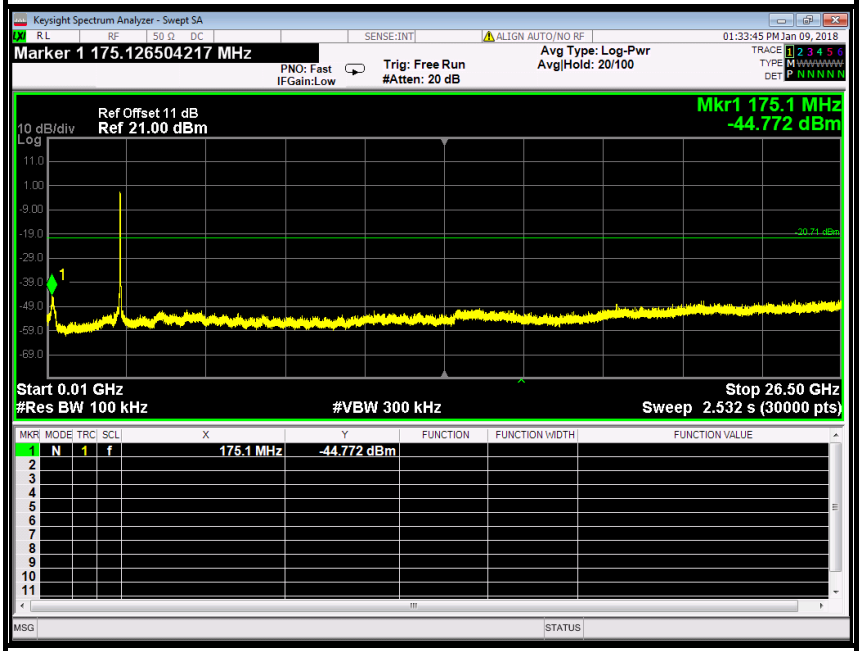
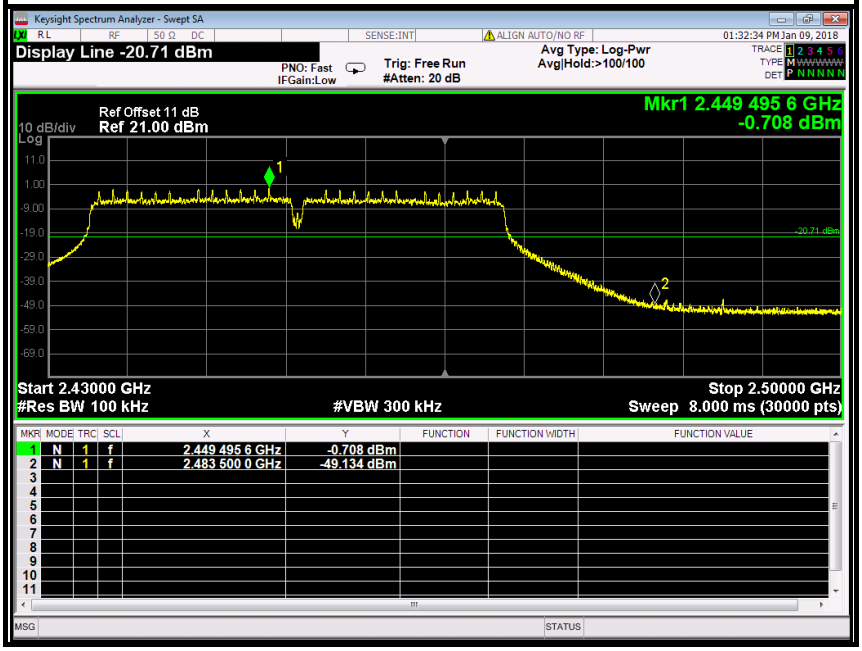
CH High (10MHz ~26.5GHz)



CH High (2.43GHz ~2.5GHz)



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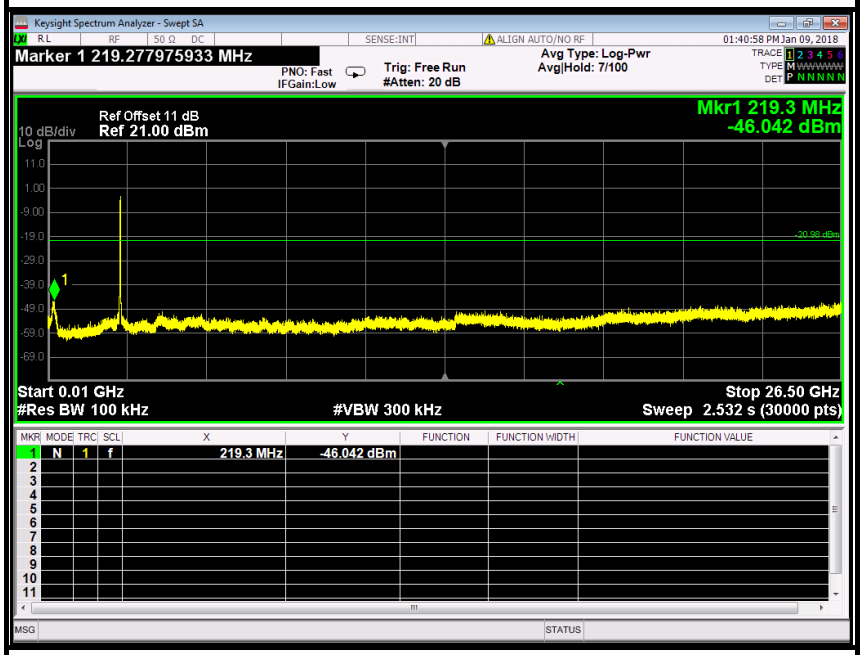
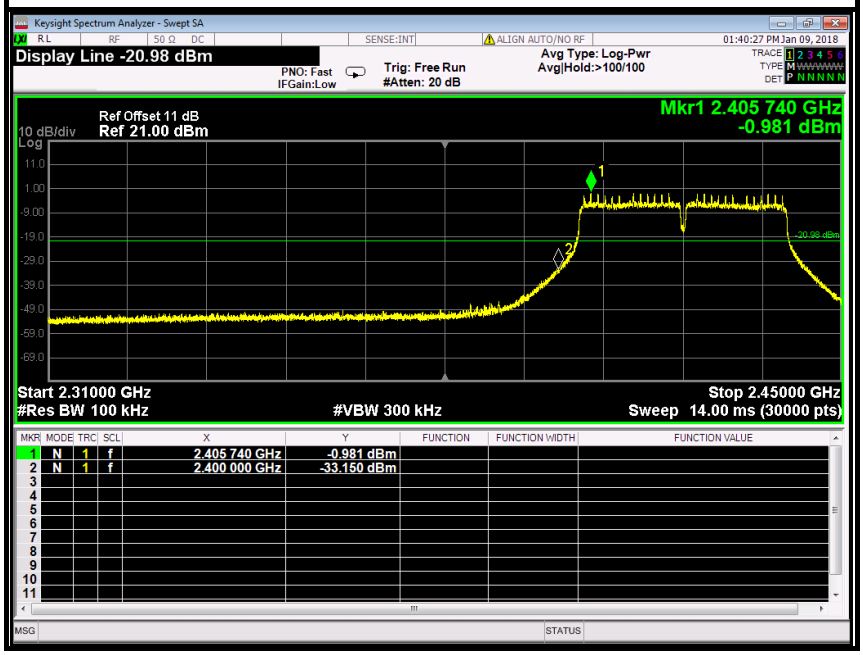
IEEE 802.11n HT40 MHz mode (antenna 1)

CH Low (10MHz ~26.5GHz)



CH Low (2.31GHz ~2.45GHz)



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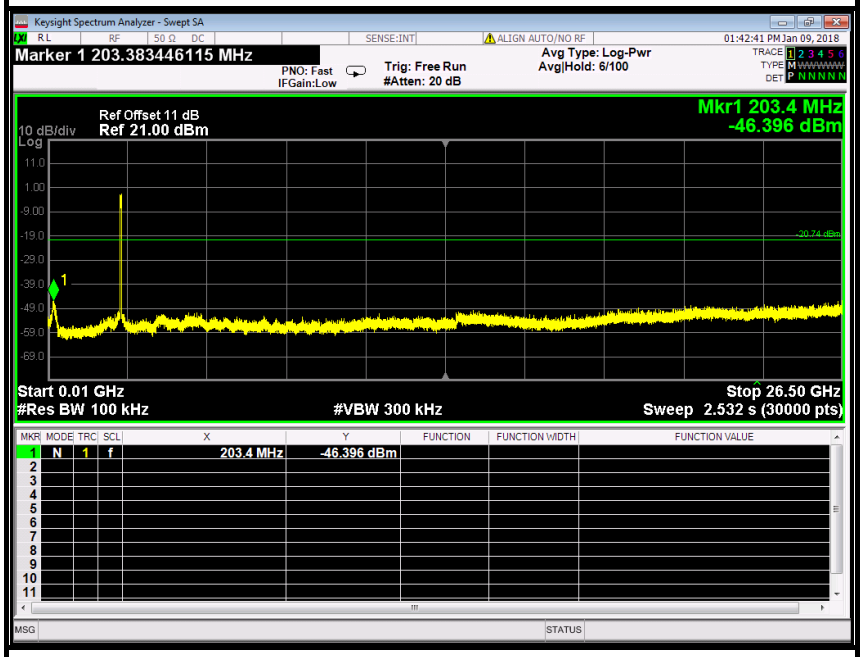
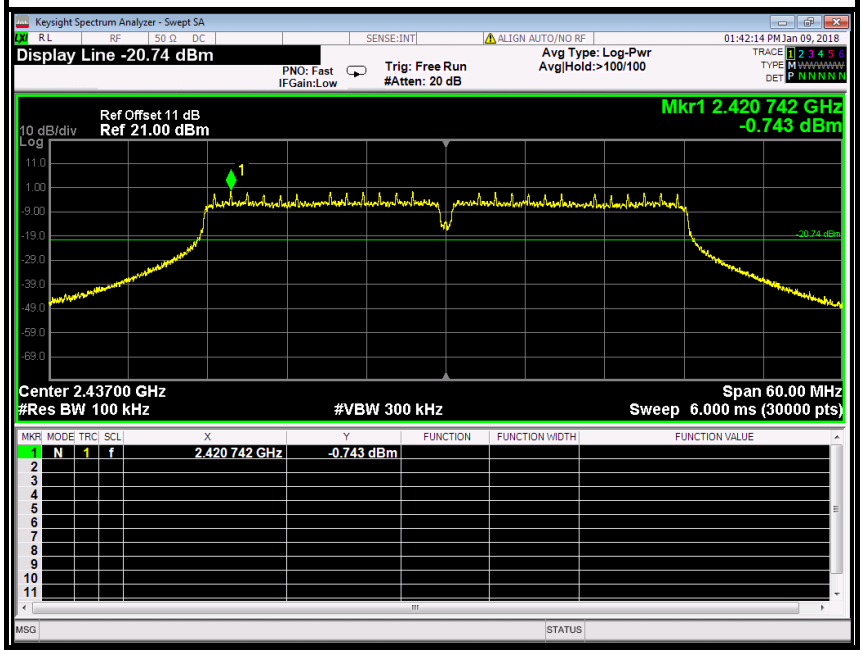
CH Mid (10MHz ~26.5GHz)



CH Mid



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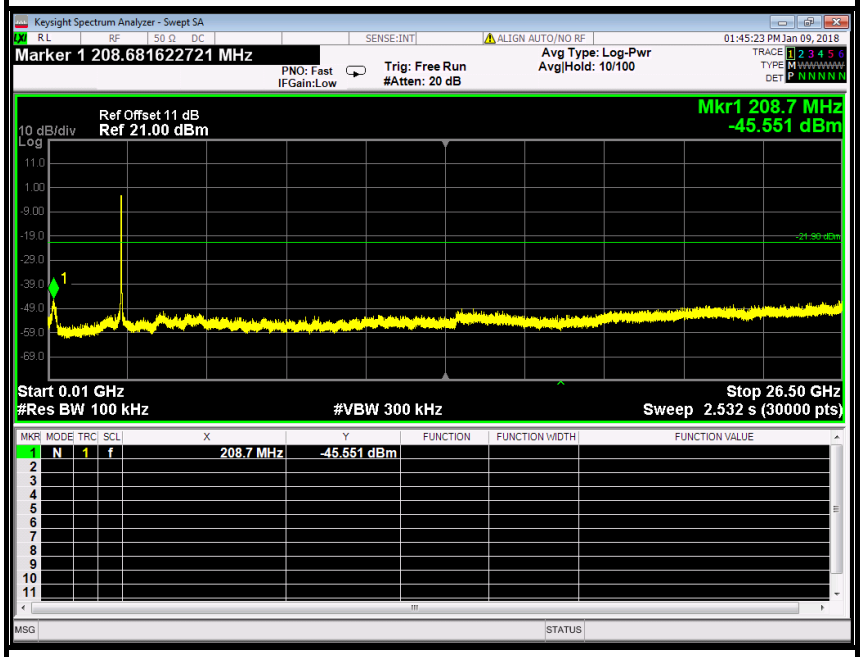
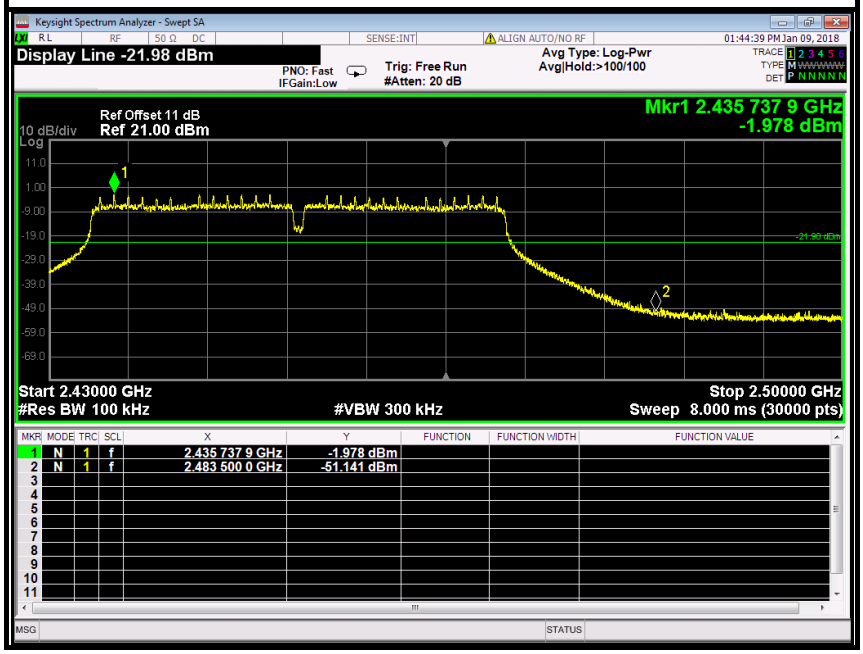
CH High (10MHz ~26.5GHz)



CH High (2.43GHz ~2.5GHz)



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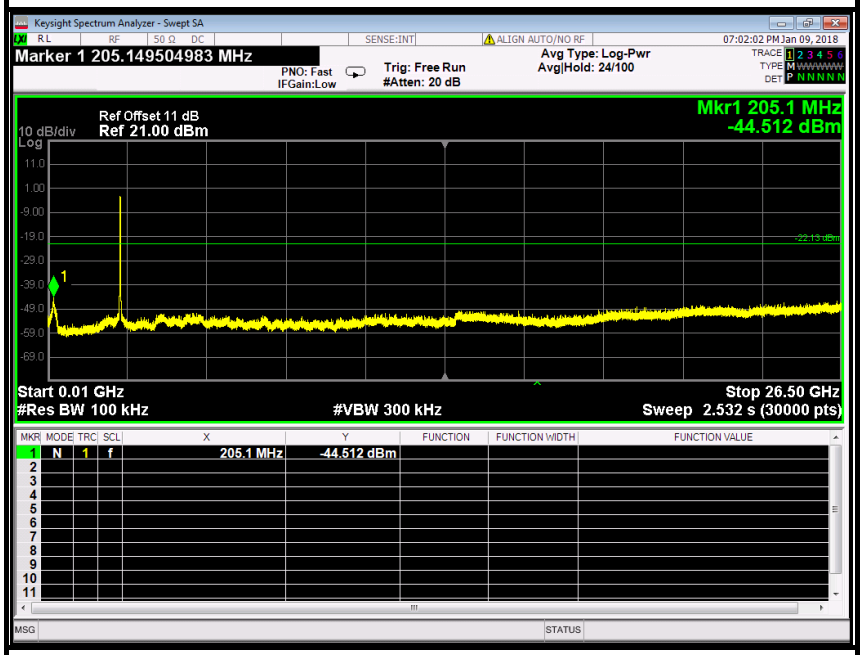
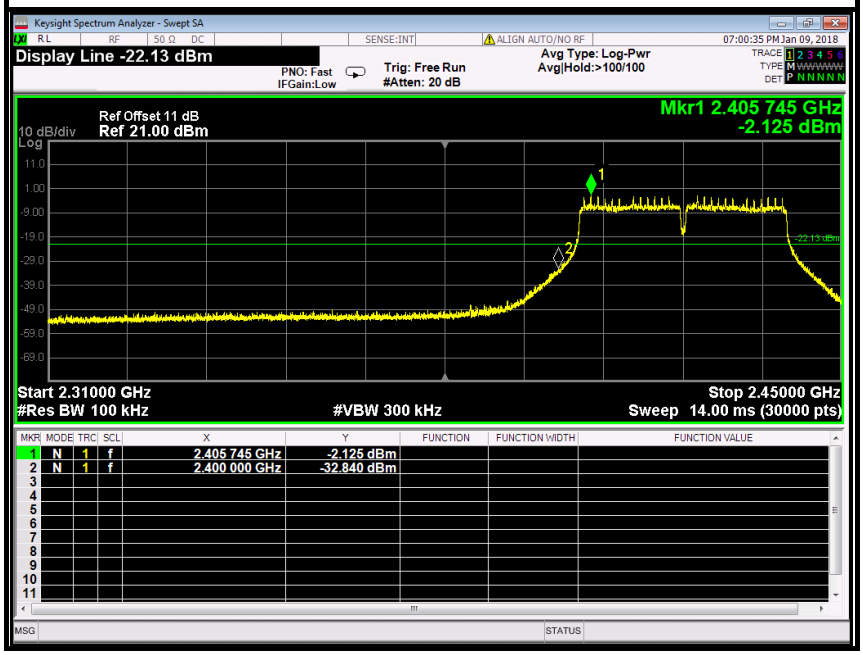
IEEE 802.11n HT40 MHz mode (antenna 2)

CH Low (10MHz ~26.5GHz)



CH Low (2.31GHz ~2.45GHz)



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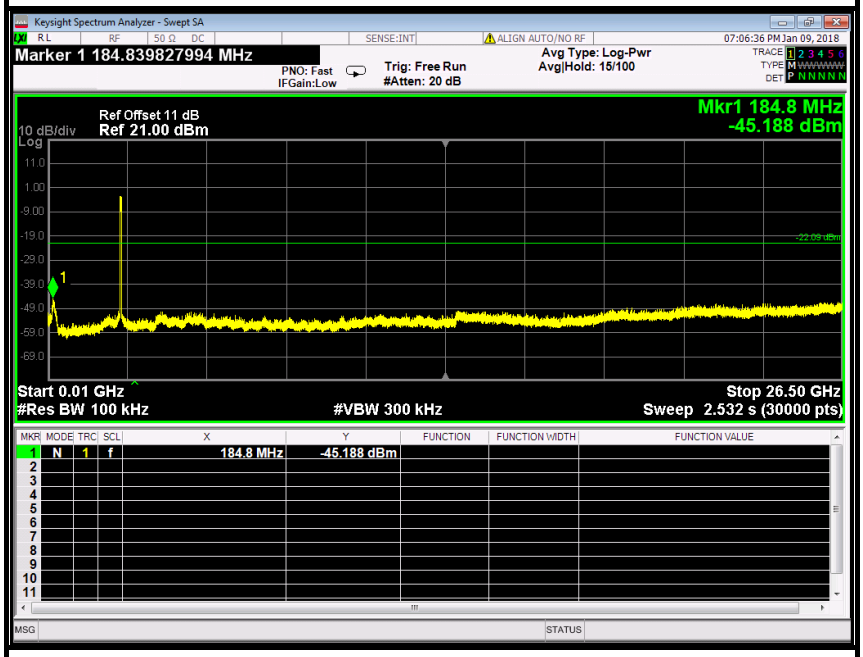
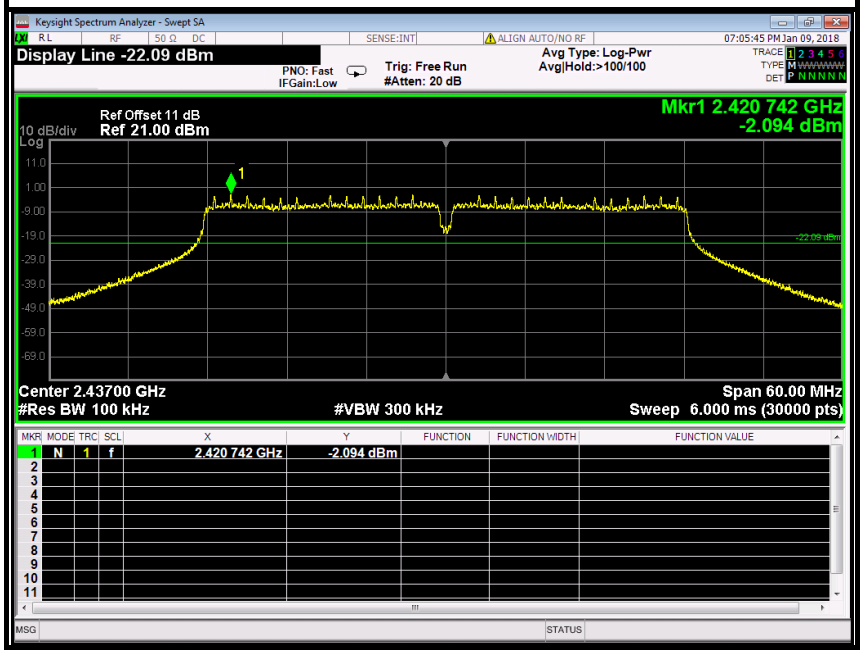
CH Mid (10MHz ~26.5GHz)



CH Mid



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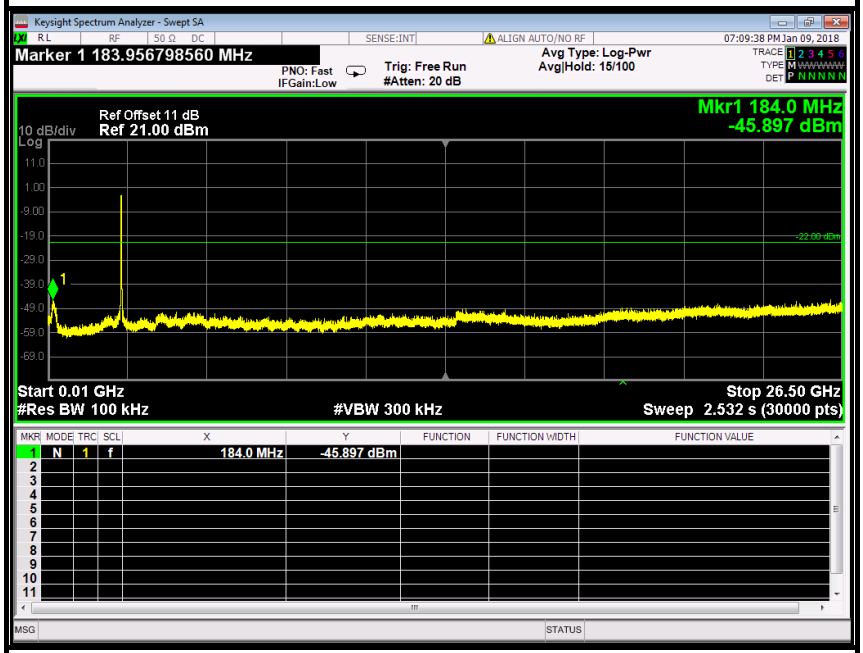
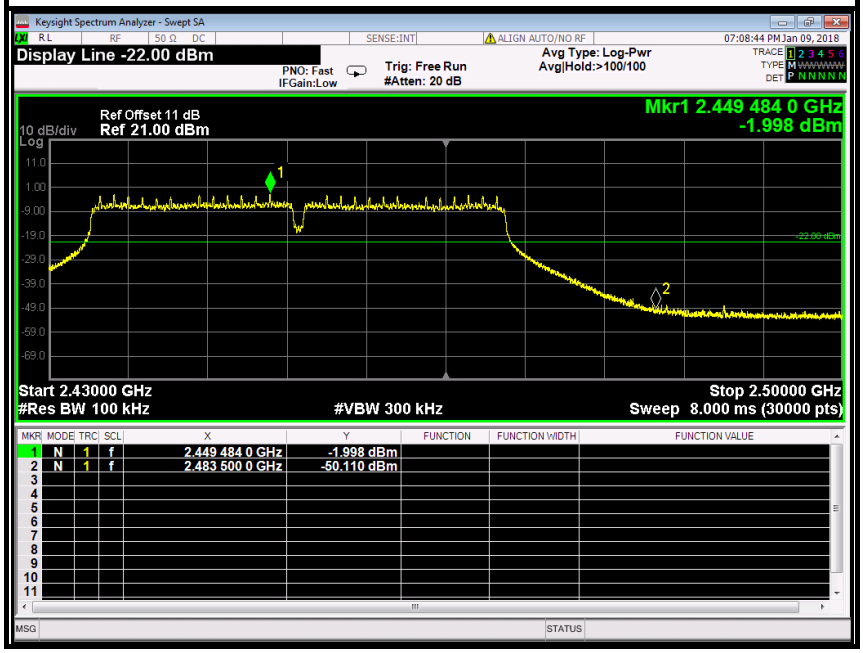
CH High (10MHz ~26.5GHz)



CH High (2.43GHz ~2.5GHz)



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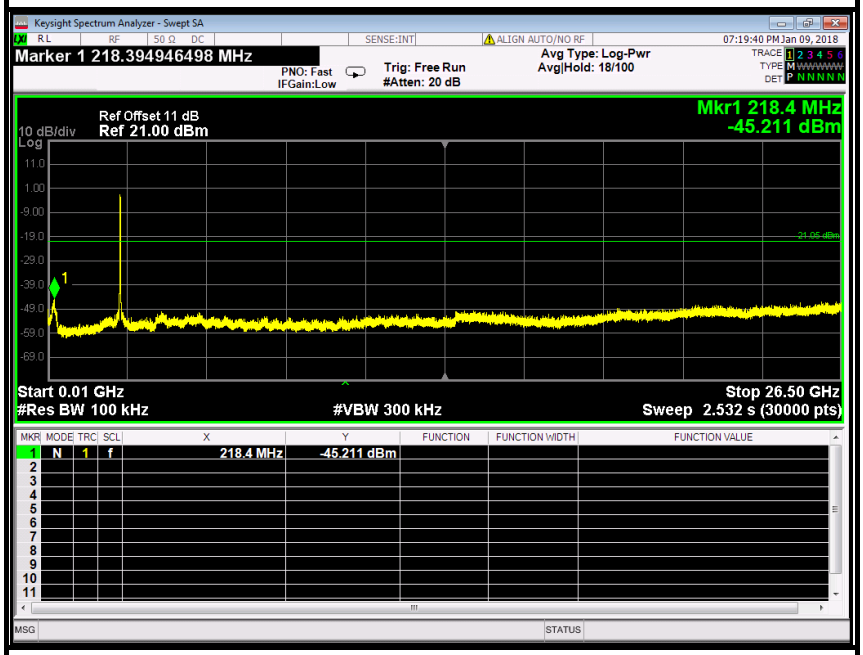
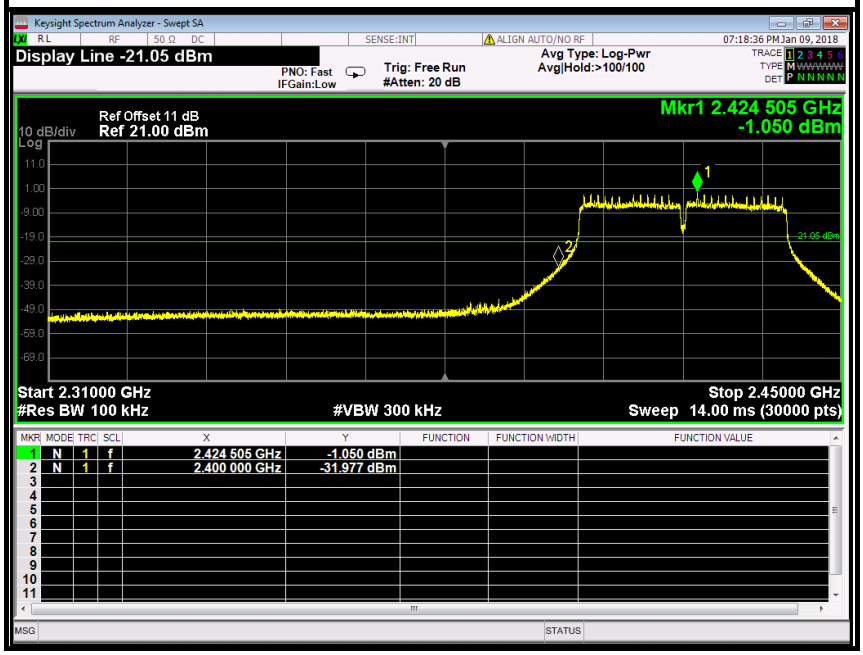
IEEE 802.11n HT40 MHz mode (antenna 3)

CH Low (10MHz ~26.5GHz)



CH Low (2.31GHz ~2.45GHz)



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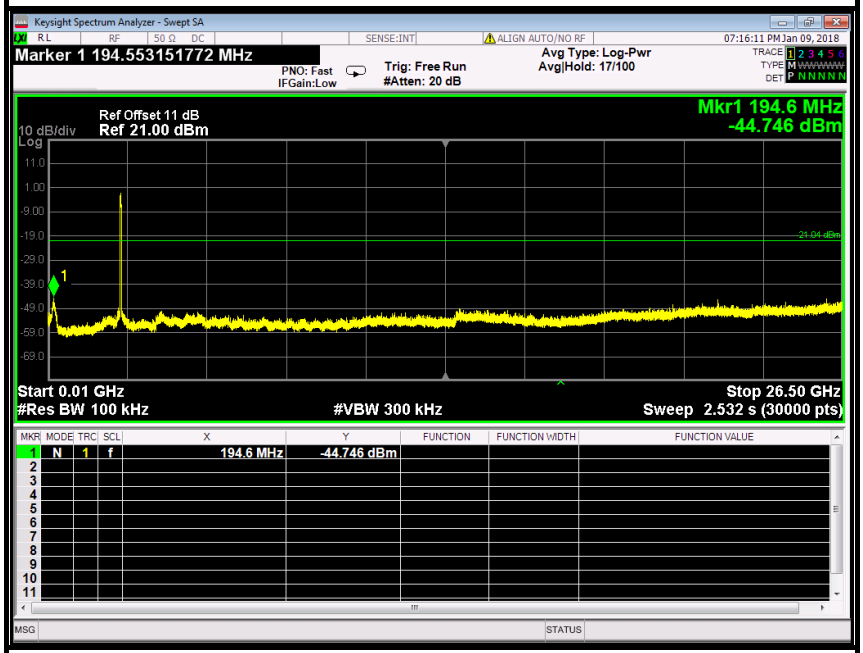
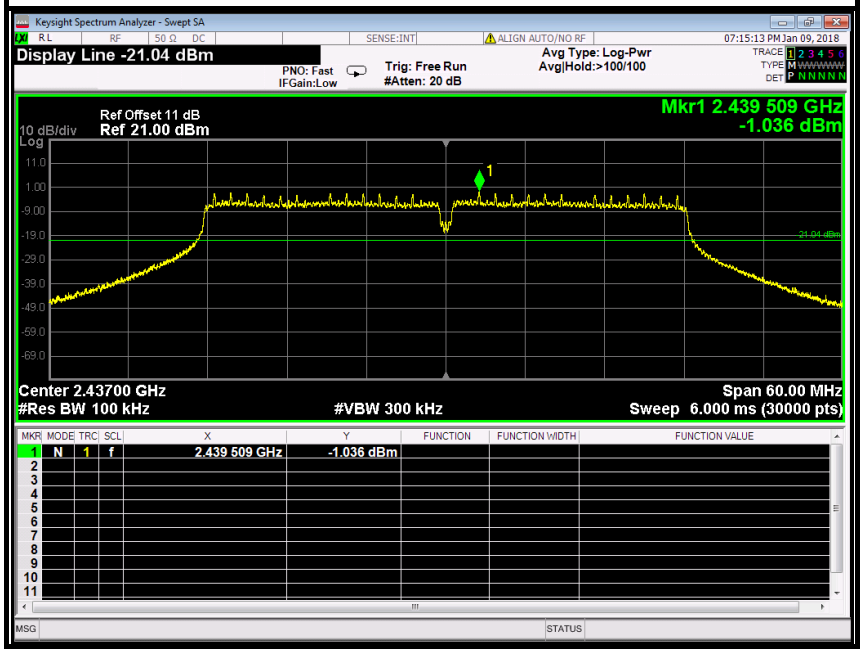
CH Mid (10MHz ~26.5GHz)



CH Mid



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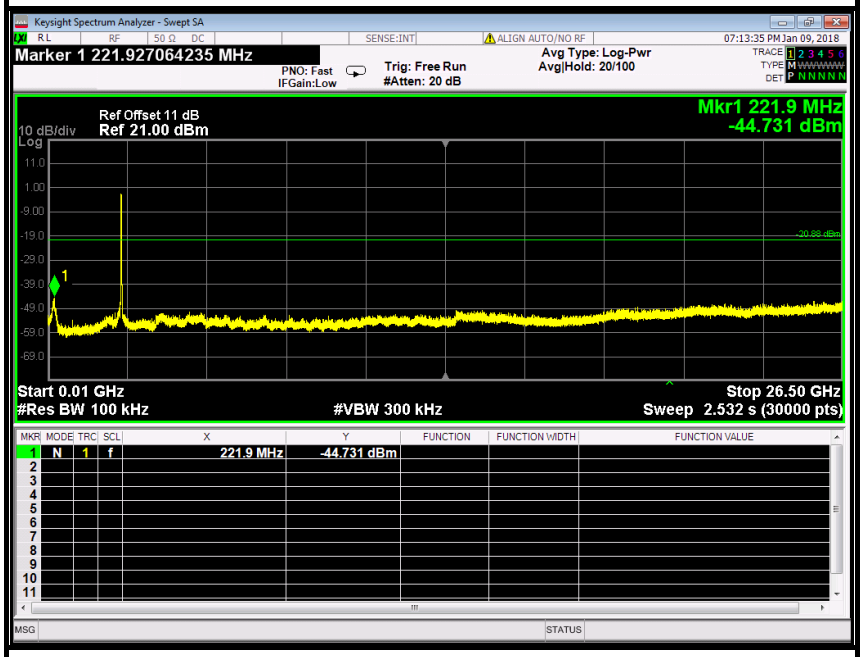
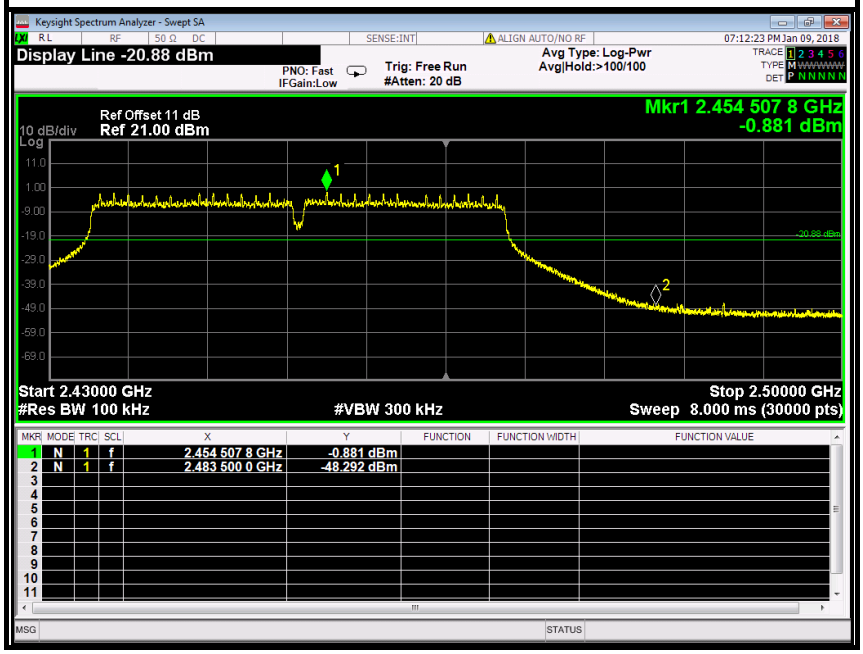
CH High (10MHz ~26.5GHz)



CH High (2.43GHz ~2.5GHz)



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7.2.2. RADIATED EMISSIONS MEASUREMENT

7.2.2.1. LIMITS OF RADIATED EMISSIONS MEASUREMENT

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 (mV/m)	Measurement Distance (m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
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.

1. 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

NOTE: (1) The lower limit shall apply at the transition frequencies.
(2) Emission level (dBuV/m) = 20 log Emission level (uV/m).

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7.2.2.2. Measuring Instruments and Setting

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB 100kHz for QP

7.2.2.3. TEST PROCEDURE (please refer to measurement standard)

1) Sequence of testing 9 kHz to 30 MHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions.

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Pre measurement:

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna height is 0.8 meter.

--- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

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Final measurement:

--- Identified emissions during the pre measurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).

--- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement and the limit will be stored.

2) Sequence of testing 30 MHz to 1 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Pre measurement:

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna is polarized vertical and horizontal.

--- The antenna height changes from 1 to 3 meter.

--- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

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Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter.

--- The final measurement will be done with QP detector with an EMI receiver.

--- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

3) Sequence of testing 1 GHz to 18 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Pre measurement:

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna is polarized vertical and horizontal.

--- The antenna height scan range is 1 meter to 2.5 meter.

--- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

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Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.

--- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
--- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement with marked maximum final measurements and the limit will be stored.

4) Sequence of testing above 18 GHz
Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 1 meter.

--- The EUT was set into operation.

Pre measurement:

--- The antenna is moved spherical over the EUT in different polarisations of the antenna.

Final measurement:

--- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.
--- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

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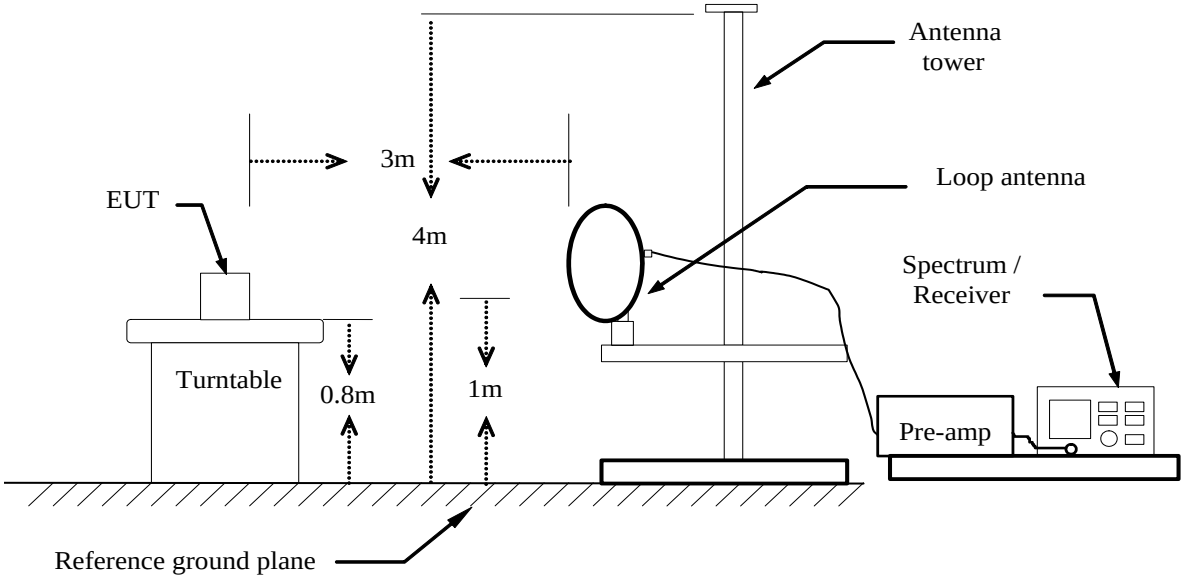
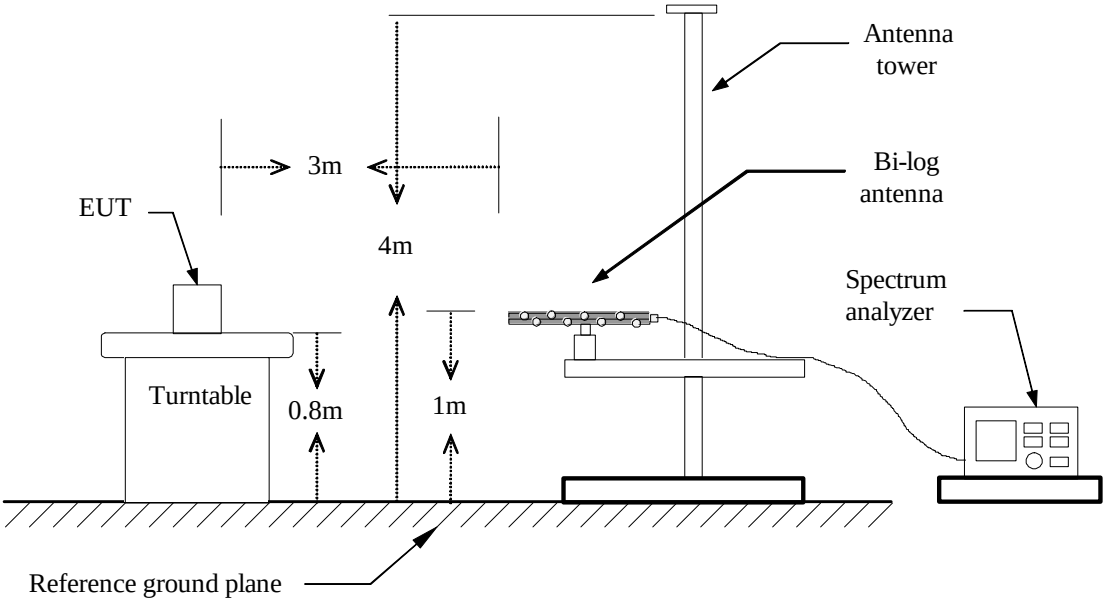
7.2.2.4. TEST SETUP

Below 30MHz



Below 1 GHz



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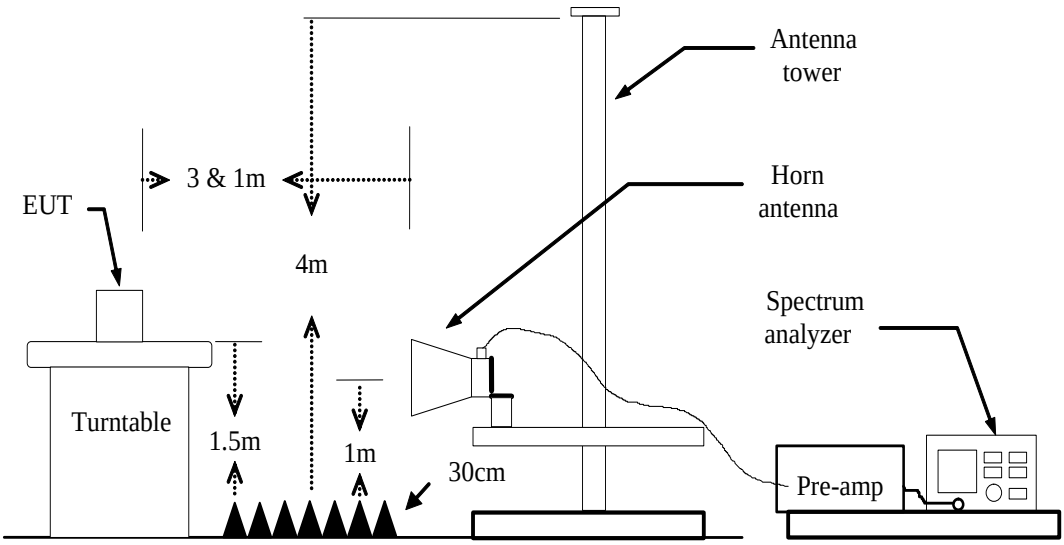
Above 1 GHz



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

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7.2.2.5. 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
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	62.09	-11.42	50.67	74.00	-23.33	V	Peak
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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7.2.2.6. TEST RESULTS

Below 1 GHz

Test Mode: TX / IEEE 802.11b(CH Low) **Tested by:** Darry Wu

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** Junary 1, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
32.9100	51.40	-13.43	37.97	40.00	-2.03	V	QP
56.1900	59.34	-23.02	36.32	40.00	-3.68	V	QP
288.0200	46.99	-20.45	26.54	46.00	-19.46	V	QP
431.5800	40.24	-15.60	24.64	46.00	-21.36	V	QP
666.3200	36.17	-12.22	23.95	46.00	-22.05	V	QP
896.2100	32.63	-9.86	22.77	46.00	-23.23	V	QP
139.6100	42.65	-21.23	21.42	43.50	-22.08	H	QP
216.2400	43.17	-20.79	22.38	46.00	-23.62	H	QP
288.0200	54.75	-20.45	34.30	46.00	-11.70	H	QP
431.5800	44.09	-15.60	28.49	46.00	-17.51	H	QP
629.4600	31.13	-12.52	18.61	46.00	-27.39	H	QP
879.7200	31.72	-9.98	21.74	46.00	-24.26	H	QP

Pre-scan all mode and recorded the worst case results in this report (802.11b (Low Mid))

Remark:

1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz)
2. Radiated emissions measured in frequency range from 9kHz to 1GHz were made with an instrument using Quasi-peak detector mode.
3. 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.
4. The IF bandwidth of Receiver between 30MHz to 1GHz was 120kHz.
5. Frequency (MHz) = Emission frequency in MHz
   Reading (dBμV/m) = Receiver reading
   Correction Factor (dB) = Antenna factor + Cable loss – Amplifier gain
   Limit (dBμV/m) = Limit stated in standard
   Margin (dB) = Measured (dBμV/m) – Limits (dBμV/m)
   Antenna Pol e(H/V) = Current carrying line of reading

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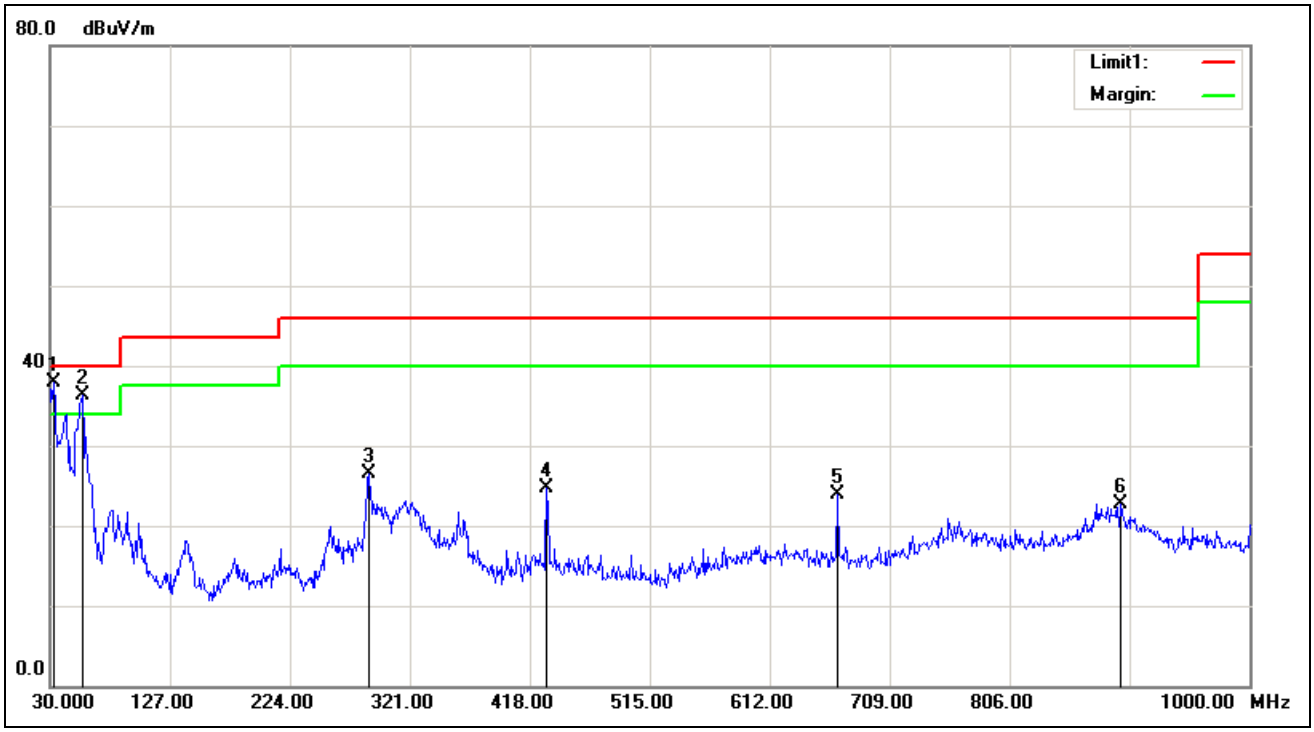
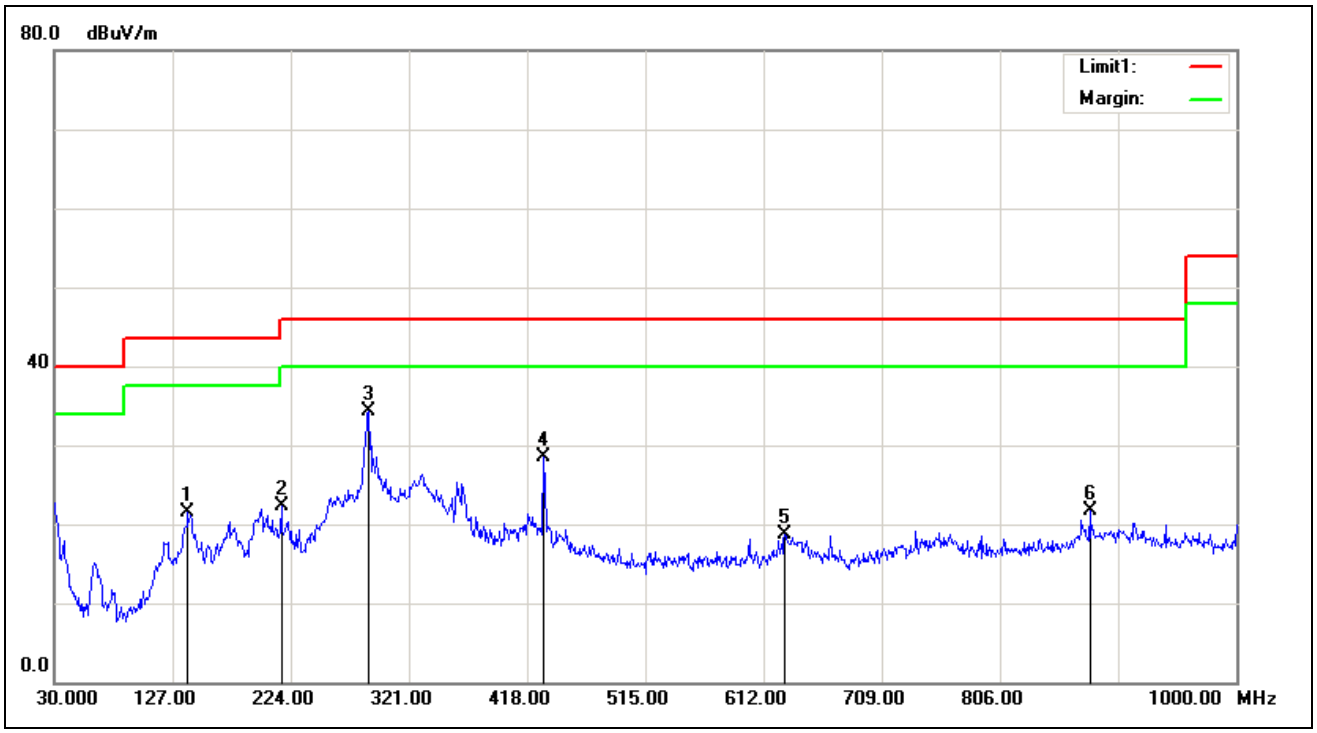
Vertical



Horizontal



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Above 1 GHz
Antenna 0
Test Mode: TX / IEEE 802.11b(CH Low) **Tested by:** Darry Wu
Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** Junary 1, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1252.000	51.11	-7.60	43.51	74.00	-30.49	V	peak
2413.000	46.60	-2.74	43.86	74.00	-30.14	V	peak
3853.000	42.02	0.97	42.99	74.00	-31.01	V	peak
4825.000	41.85	4.41	46.26	74.00	-27.74	V	peak
6175.000	40.65	6.36	47.01	74.00	-26.99	V	peak
7813.000	40.61	9.29	49.90	74.00	-24.10	V	peak
1252.000	48.97	-7.60	41.37	74.00	-32.63	H	Peak
2512.000	44.76	-2.24	42.52	74.00	-31.48	H	Peak
3997.000	41.43	1.58	43.01	74.00	-30.99	H	Peak
4519.000	42.30	3.41	45.71	74.00	-28.29	H	peak
5086.000	40.95	5.13	46.08	74.00	-27.92	H	peak
6283.000	40.75	6.54	47.29	74.00	-26.71	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 or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

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Test Mode: TX / IEEE 802.11b (CH Mid) **Tested by:** Darry Wu

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** Junary 1, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1252.000	50.95	-7.60	43.35	74.00	-30.65	V	Peak
2224.000	46.58	-3.77	42.81	74.00	-31.19	V	Peak
2440.000	48.67	-2.59	46.08	74.00	-27.92	V	Peak
2818.000	43.92	-1.69	42.23	74.00	-31.77	V	Peak
4870.000	45.60	4.56	50.16	74.00	-23.84	V	Peak
7228.000	40.90	8.14	49.04	74.00	-24.96	V	Peak
1252.000	49.31	-7.60	41.71	74.00	-32.29	H	Peak
2440.000	45.11	-2.59	42.52	74.00	-31.48	H	Peak
4870.000	42.35	4.56	46.91	74.00	-27.09	H	Peak
5689.000	40.54	5.95	46.49	74.00	-27.51	H	Peak
6778.000	41.10	7.34	48.44	74.00	-25.56	H	Peak
8128.000	41.03	9.58	50.61	74.00	-23.39	H	Peak

Remark:

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

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Test Mode: TX / IEEE 802.11b (CH High) **Tested by:** Darry Wu

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** Junary 1, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1252.000	51.17	-7.60	43.57	74.00	-30.43	V	Peak
1945.000	54.91	-5.35	49.56	74.00	-24.44	V	Peak
2458.000	50.54	-2.49	48.05	74.00	-25.95	V	Peak
4924.000	41.83	4.73	46.56	74.00	-27.44	V	Peak
7390.000	41.00	8.46	49.46	74.00	-24.54	V	Peak
7741.000	41.30	9.14	50.44	74.00	-23.56	V	Peak
1252.000	49.68	-7.60	42.08	74.00	-31.92	H	Peak
1954.000	50.17	-5.29	44.88	74.00	-29.12	H	Peak
2458.000	46.78	-2.49	44.29	74.00	-29.71	H	Peak
5014.000	40.87	5.00	45.87	74.00	-28.13	H	Peak
6040.000	41.04	6.14	47.18	74.00	-26.82	H	Peak
7768.000	40.40	9.20	49.60	74.00	-24.40	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 or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

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Antenna 1

Test Mode: TX / IEEE 802.11b(CH Low) **Tested by:** Darry Wu

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** Junary 1, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1252.000	50.94	-7.60	43.34	74.00	-30.66	V	peak
2224.000	45.88	-3.77	42.11	74.00	-31.89	V	peak
2413.000	47.33	-2.74	44.59	74.00	-29.41	V	peak
4825.000	42.99	4.41	47.40	74.00	-26.60	V	peak
7237.000	41.45	8.16	49.61	74.00	-24.39	V	peak
7714.000	40.89	9.09	49.98	74.00	-24.02	V	peak
1252.000	49.23	-7.60	41.63	74.00	-32.37	H	Peak
1909.000	47.79	-5.58	42.21	74.00	-31.79	H	Peak
2521.000	44.63	-2.22	42.41	74.00	-31.59	H	Peak
5887.000	41.40	6.03	47.43	74.00	-26.57	H	peak
6643.000	41.51	7.12	48.63	74.00	-25.37	H	peak
7489.000	41.02	8.65	49.67	74.00	-24.33	H	peak

Remark:

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

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Test Mode: TX / IEEE 802.11b (CH Mid) **Tested by:** Darry Wu

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** Junary 1, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1252.000	51.76	-7.60	44.16	74.00	-29.84	V	Peak
1909.000	47.51	-5.58	41.93	74.00	-32.07	V	Peak
2440.000	48.81	-2.59	46.22	74.00	-27.78	V	Peak
4870.000	44.63	4.56	49.19	74.00	-24.81	V	Peak
5338.000	41.03	5.58	46.61	74.00	-27.39	V	Peak
7192.000	41.22	8.07	49.29	74.00	-24.71	V	Peak
1252.000	49.87	-7.60	42.27	74.00	-31.73	H	Peak
1909.000	53.12	-5.58	47.54	74.00	-26.46	H	Peak
2521.000	45.17	-2.22	42.95	74.00	-31.05	H	Peak
4870.000	42.22	4.56	46.78	74.00	-27.22	H	Peak
6094.000	40.99	6.23	47.22	74.00	-26.78	H	Peak
6571.000	41.44	7.01	48.45	74.00	-25.55	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 or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

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Test Mode: TX / IEEE 802.11b (CH High) **Tested by:** Darry Wu

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** Junary 1, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1252.000	51.60	-7.60	44.00	74.00	-30.00	V	Peak
1909.000	53.09	-5.58	47.51	74.00	-26.49	V	Peak
2467.000	47.23	-2.44	44.79	74.00	-29.21	V	Peak
4924.000	42.04	4.73	46.77	74.00	-27.23	V	Peak
7165.000	40.95	8.02	48.97	74.00	-25.03	V	Peak
7993.000	40.81	9.64	50.45	74.00	-23.55	V	Peak
1252.000	49.11	-7.60	41.51	74.00	-32.49	H	Peak
1909.000	55.58	-5.58	50.00	74.00	-24.00	H	Peak
2458.000	47.68	-2.49	45.19	74.00	-28.81	H	Peak
4942.000	42.02	4.79	46.81	74.00	-27.19	H	Peak
6490.000	41.13	6.87	48.00	74.00	-26.00	H	Peak
7534.000	40.74	8.74	49.48	74.00	-24.52	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 or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

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Antenna 2

Test Mode: TX / IEEE 802.11b(CH Low) **Tested by:** Darry Wu

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** Junary 1, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1252.000	51.44	-7.60	43.84	74.00	-30.16	V	peak
1909.000	52.51	-5.58	46.93	74.00	-27.07	V	peak
3781.000	42.17	0.67	42.84	74.00	-31.16	V	peak
4996.000	41.91	4.97	46.88	74.00	-27.12	V	peak
6373.000	40.52	6.68	47.20	74.00	-26.80	V	peak
8173.000	40.75	9.55	50.30	74.00	-23.70	V	peak
1252.000	49.65	-7.60	42.05	74.00	-31.95	H	Peak
2413.000	45.37	-2.74	42.63	74.00	-31.37	H	Peak
3835.000	42.29	0.89	43.18	74.00	-30.82	H	Peak
4546.000	41.33	3.50	44.83	74.00	-29.17	H	peak
4825.000	41.88	4.41	46.29	74.00	-27.71	H	peak
7957.000	40.65	9.57	50.22	74.00	-23.78	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 or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

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Test Mode: TX / IEEE 802.11b (CH Mid) **Tested by:** Darry Wu

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** Junary 1, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1252.000	51.42	-7.60	43.82	74.00	-30.18	V	Peak
1909.000	56.33	-5.58	50.75	74.00	-23.25	V	Peak
2431.000	49.14	-2.64	46.50	74.00	-27.50	V	Peak
4870.000	44.83	4.56	49.39	74.00	-24.61	V	Peak
5536.000	41.29	5.89	47.18	74.00	-26.82	V	Peak
8056.000	42.21	9.62	51.83	74.00	-22.17	V	Peak
1252.000	49.67	-7.60	42.07	74.00	-31.93	H	Peak
1909.000	56.87	-5.58	51.29	74.00	-22.71	H	Peak
2440.000	46.02	-2.59	43.43	74.00	-30.57	H	Peak
4312.000	42.63	2.69	45.32	74.00	-28.68	H	Peak
5140.000	41.76	5.23	46.99	74.00	-27.01	H	Peak
7642.000	41.76	8.95	50.71	74.00	-23.29	H	Peak

Remark:

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

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Test Mode: TX / IEEE 802.11b (CH High) **Tested by:** Darry Wu

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** Junary 1, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1252.000	51.13	-7.60	43.53	74.00	-30.47	V	Peak
1918.000	48.47	-5.52	42.95	74.00	-31.05	V	Peak
2467.000	50.28	-2.44	47.84	74.00	-26.16	V	Peak
5131.000	40.89	5.21	46.10	74.00	-27.90	V	Peak
6364.000	40.78	6.67	47.45	74.00	-26.55	V	Peak
7678.000	40.63	9.02	49.65	74.00	-24.35	V	Peak
1252.000	49.78	-7.60	42.18	74.00	-31.82	H	Peak
1909.000	53.90	-5.58	48.32	74.00	-25.68	H	Peak
2467.000	45.40	-2.44	42.96	74.00	-31.04	H	Peak
4384.000	41.24	2.94	44.18	74.00	-29.82	H	Peak
5482.000	41.68	5.84	47.52	74.00	-26.48	H	Peak
7705.000	41.24	9.07	50.31	74.00	-23.69	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 or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

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Antenna 3

Test Mode: TX / IEEE 802.11b(CH Low) **Tested by:** Darry Wu

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** Junary 1, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1252.000	51.07	-7.60	43.47	74.00	-30.53	V	peak
1909.000	52.53	-5.58	46.95	74.00	-27.05	V	peak
2413.000	45.46	-2.74	42.72	74.00	-31.28	V	peak
4825.000	44.37	4.41	48.78	74.00	-25.22	V	peak
5149.000	41.80	5.25	47.05	74.00	-26.95	V	peak
7237.000	43.04	8.16	51.20	74.00	-22.80	V	peak
1252.000	50.13	-7.60	42.53	74.00	-31.47	H	Peak
2413.000	45.90	-2.74	43.16	74.00	-30.84	H	Peak
4825.000	43.56	4.41	47.97	74.00	-26.03	H	Peak
5437.000	40.85	5.76	46.61	74.00	-27.39	H	peak
6760.000	40.73	7.31	48.04	74.00	-25.96	H	peak
7237.000	43.04	8.16	51.20	74.00	-22.80	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 or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

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Test Mode: TX / IEEE 802.11b (CH Mid) **Tested by:** Darry Wu

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** Junary 1, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1252.000	51.19	-7.60	43.59	74.00	-30.41	V	Peak
1909.000	55.69	-5.58	50.11	74.00	-23.89	V	Peak
2440.000	47.35	-2.59	44.76	74.00	-29.24	V	Peak
4870.000	45.07	4.56	49.63	74.00	-24.37	V	Peak
6445.000	41.21	6.80	48.01	74.00	-25.99	V	Peak
8344.000	41.85	9.46	51.31	74.00	-22.69	V	Peak
1252.000	50.10	-7.60	42.50	74.00	-31.50	H	Peak
2440.000	46.64	-2.59	44.05	74.00	-29.95	H	Peak
4870.000	43.82	4.56	48.38	74.00	-25.62	H	Peak
6796.000	40.90	7.37	48.27	74.00	-25.73	H	Peak
7633.000	41.81	8.93	50.74	74.00	-23.26	H	Peak
8002.000	41.44	9.65	51.09	74.00	-22.91	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 or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

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Test Mode: TX / IEEE 802.11b (CH High) **Tested by:** Darry Wu

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** Junary 1, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1252.000	51.16	-7.60	43.56	74.00	-30.44	V	Peak
1909.000	49.99	-5.58	44.41	74.00	-29.59	V	Peak
2458.000	50.74	-2.49	48.25	74.00	-25.75	V	Peak
4330.000	41.89	2.75	44.64	74.00	-29.36	V	Peak
4924.000	42.88	4.73	47.61	74.00	-26.39	V	Peak
7381.000	41.69	8.44	50.13	74.00	-23.87	V	Peak
1252.000	49.95	-7.60	42.35	74.00	-31.65	H	Peak
1909.000	51.96	-5.58	46.38	74.00	-27.62	H	Peak
4924.000	41.61	4.73	46.34	74.00	-27.66	H	Peak
5446.000	41.62	5.77	47.39	74.00	-26.61	H	Peak
6400.000	41.32	6.73	48.05	74.00	-25.95	H	Peak
8137.000	41.86	9.57	51.43	74.00	-22.57	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 or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

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Antenna 0

Test Mode: TX / IEEE 802.11g(CH Low) **Tested by:** Darry Wu

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** Junary 1, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1252.000	51.15	-7.60	43.55	74.00	-30.45	V	Peak
1909.000	53.62	-5.58	48.04	74.00	-25.96	V	Peak
2413.000	49.52	-2.74	46.78	74.00	-27.22	V	Peak
4825.000	44.82	4.41	49.23	74.00	-24.77	V	Peak
5590.000	41.03	5.91	46.94	74.00	-27.06	V	Peak
7705.000	40.39	9.07	49.46	74.00	-24.54	V	Peak
1252.000	50.34	-7.60	42.74	74.00	-31.26	H	Peak
2512.000	44.79	-2.24	42.55	74.00	-31.45	H	Peak
5626.000	41.23	5.92	47.15	74.00	-26.85	H	Peak
6265.000	40.69	6.51	47.20	74.00	-26.80	H	Peak
6814.000	41.11	7.40	48.51	74.00	-25.49	H	Peak
7939.000	41.13	9.53	50.66	74.00	-23.34	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 or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

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Test Mode: TX / IEEE 802.11g (CH Mid) **Tested by:** Darry Wu

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** Junary 1, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1252.000	51.24	-7.60	43.64	74.00	-30.36	V	Peak
2233.000	46.64	-3.72	42.92	74.00	-31.08	V	Peak
2440.000	48.52	-2.59	45.93	74.00	-28.07	V	Peak
4870.000	44.26	4.56	48.82	74.00	-25.18	V	Peak
5428.000	41.18	5.74	46.92	74.00	-27.08	V	Peak
6058.000	41.04	6.17	47.21	74.00	-26.79	V	Peak
1252.000	50.49	-7.60	42.89	74.00	-31.11	H	Peak
2431.000	46.01	-2.64	43.37	74.00	-30.63	H	Peak
2800.000	44.12	-1.72	42.40	74.00	-31.60	H	Peak
4879.000	42.96	4.59	47.55	74.00	-26.45	H	Peak
5392.000	41.44	5.68	47.12	74.00	-26.88	H	Peak
7273.000	40.44	8.23	48.67	74.00	-25.33	H	Peak

Remark:

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

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Test Mode: TX / IEEE 802.11g (CH High) **Tested by:** Darry Wu

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** Junary 1, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1252.000	51.32	-7.60	43.72	74.00	-30.28	V	Peak
2458.000	51.01	-2.49	48.52	74.00	-25.48	V	Peak
3043.000	42.79	-1.29	41.50	74.00	-32.50	V	Peak
4924.000	43.57	4.73	48.30	74.00	-25.70	V	Peak
5887.000	40.85	6.03	46.88	74.00	-27.12	V	Peak
7093.000	41.16	7.88	49.04	74.00	-24.96	V	Peak
1252.000	50.49	-7.60	42.89	74.00	-31.11	H	Peak
1765.000	48.43	-6.35	42.08	74.00	-31.92	H	Peak
2512.000	45.04	-2.24	42.80	74.00	-31.20	H	Peak
4924.000	41.11	4.73	45.84	74.00	-28.16	H	Peak
6256.000	40.90	6.49	47.39	74.00	-26.61	H	Peak
7507.000	40.80	8.69	49.49	74.00	-24.51	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 or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

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Antenna 1

Test Mode: TX / IEEE 802.11g(CH Low) **Tested by:** Darry Wu

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** Junary 1, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1252.000	50.86	-7.60	43.26	74.00	-30.74	V	Peak
2413.000	47.43	-2.74	44.69	74.00	-29.31	V	Peak
4636.000	41.69	3.79	45.48	74.00	-28.52	V	Peak
5356.000	41.19	5.61	46.80	74.00	-27.20	V	Peak
7246.000	41.14	8.18	49.32	74.00	-24.68	V	Peak
7732.000	41.20	9.13	50.33	74.00	-23.67	V	Peak
1153.000	50.21	-7.97	42.24	74.00	-31.76	H	Peak
1252.000	49.76	-7.60	42.16	74.00	-31.84	H	Peak
2413.000	46.63	-2.74	43.89	74.00	-30.11	H	Peak
4591.000	41.70	3.65	45.35	74.00	-28.65	H	Peak
6643.000	40.58	7.12	47.70	74.00	-26.30	H	Peak
8074.000	40.77	9.61	50.38	74.00	-23.62	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 or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

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Test Mode: TX / IEEE 802.11g (CH Mid) **Tested by:** Darry Wu

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** Junary 1, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1252.000	51.52	-7.60	43.92	74.00	-30.08	V	Peak
2431.000	49.12	-2.64	46.48	74.00	-27.52	V	Peak
4870.000	42.15	4.56	46.71	74.00	-27.29	V	Peak
5671.000	41.46	5.94	47.40	74.00	-26.60	V	Peak
6832.000	40.85	7.43	48.28	74.00	-25.72	V	Peak
7318.000	43.19	8.32	51.51	74.00	-22.49	V	Peak
1252.000	49.47	-7.60	41.87	74.00	-32.13	H	Peak
2431.000	49.19	-2.64	46.55	74.00	-27.45	H	Peak
4879.000	42.42	4.59	47.01	74.00	-26.99	H	Peak
5392.000	41.14	5.68	46.82	74.00	-27.18	H	Peak
6382.000	40.97	6.70	47.67	74.00	-26.33	H	Peak
7471.000	40.44	8.62	49.06	74.00	-24.94	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 or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

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Test Mode: TX / IEEE 802.11g (CH High) **Tested by:** Darry Wu

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** Junary 1, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1252.000	51.33	-7.60	43.73	74.00	-30.27	V	Peak
2467.000	47.94	-2.44	45.50	74.00	-28.50	V	Peak
3862.000	41.57	1.01	42.58	74.00	-31.42	V	Peak
4924.000	42.58	4.73	47.31	74.00	-26.69	V	Peak
5365.000	40.81	5.63	46.44	74.00	-27.56	V	Peak
7390.000	42.31	8.46	50.77	74.00	-23.23	V	Peak
1252.000	51.33	-7.60	43.73	74.00	-30.27	H	Peak
2467.000	46.81	-2.44	44.37	74.00	-29.63	H	Peak
3628.000	42.19	0.02	42.21	74.00	-31.79	H	Peak
5446.000	41.10	5.77	46.87	74.00	-27.13	H	Peak
6526.000	40.57	6.93	47.50	74.00	-26.50	H	Peak
7390.000	41.43	8.46	49.89	74.00	-24.11	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 or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

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Antenna 2

Test Mode: TX / IEEE 802.11g(CH Low) **Tested by:** Darry Wu

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** Junary 1, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1252.000	50.83	-7.60	43.23	74.00	-30.77	V	Peak
1747.000	49.09	-6.38	42.71	74.00	-31.29	V	Peak
2413.000	46.21	-2.74	43.47	74.00	-30.53	V	Peak
5068.000	41.58	5.10	46.68	74.00	-27.32	V	Peak
6814.000	41.57	7.40	48.97	74.00	-25.03	V	Peak
7246.000	41.29	8.18	49.47	74.00	-24.53	V	Peak
1252.000	50.34	-7.60	42.74	74.00	-31.26	H	Peak
2521.000	44.83	-2.22	42.61	74.00	-31.39	H	Peak
3691.000	42.66	0.29	42.95	74.00	-31.05	H	Peak
5428.000	41.09	5.74	46.83	74.00	-27.17	H	Peak
6535.000	41.39	6.95	48.34	74.00	-25.66	H	Peak
8101.000	40.74	9.59	50.33	74.00	-23.67	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 or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

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Test Mode: TX / IEEE 802.11g (CH Mid) **Tested by:** Darry Wu

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** Junary 1, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1252.000	51.27	-7.60	43.67	74.00	-30.33	V	Peak
2431.000	49.51	-2.64	46.87	74.00	-27.13	V	Peak
3844.000	41.71	0.93	42.64	74.00	-31.36	V	Peak
4870.000	42.89	4.56	47.45	74.00	-26.55	V	Peak
6283.000	40.93	6.54	47.47	74.00	-26.53	V	Peak
6814.000	40.49	7.40	47.89	74.00	-26.11	V	Peak
1252.000	50.59	-7.60	42.99	74.00	-31.01	H	Peak
2242.000	44.91	-3.67	41.24	74.00	-32.76	H	Peak
2431.000	48.65	-2.64	46.01	74.00	-27.99	H	Peak
4879.000	43.15	4.59	47.74	74.00	-26.26	H	Peak
5761.000	41.26	5.98	47.24	74.00	-26.76	H	Peak
7714.000	41.70	9.09	50.79	74.00	-23.21	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 or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

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Test Mode: TX / IEEE 802.11g (CH High) **Tested by:** Darry Wu

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** Junary 1, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1252.000	52.84	-7.60	45.24	74.00	-28.76	V	Peak
2458.000	49.54	-2.49	47.05	74.00	-26.95	V	Peak
4591.000	42.19	3.65	45.84	74.00	-28.16	V	Peak
4924.000	42.64	4.73	47.37	74.00	-26.63	V	Peak
7390.000	42.87	8.46	51.33	74.00	-22.67	V	Peak
8416.000	41.25	9.42	50.67	74.00	-23.33	V	Peak
1252.000	50.55	-7.60	42.95	74.00	-31.05	H	Peak
1756.000	48.69	-6.36	42.33	74.00	-31.67	H	Peak
2467.000	46.09	-2.44	43.65	74.00	-30.35	H	Peak
4924.000	43.18	4.73	47.91	74.00	-26.09	H	Peak
5536.000	41.24	5.89	47.13	74.00	-26.87	H	Peak
6571.000	40.93	7.01	47.94	74.00	-26.06	H	Peak

Remark:

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

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Antenna 3

Test Mode: TX / IEEE 802.11g(CH Low) **Tested by:** Darry Wu

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** Junary 1, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1252.000	51.31	-7.60	43.71	74.00	-30.29	V	Peak
1999.000	45.66	-5.01	40.65	74.00	-33.35	V	Peak
2413.000	46.79	-2.74	44.05	74.00	-29.95	V	Peak
4177.000	41.89	2.21	44.10	74.00	-29.90	V	Peak
5248.000	40.45	5.42	45.87	74.00	-28.13	V	Peak
7993.000	41.11	9.64	50.75	74.00	-23.25	V	Peak
1252.000	51.17	-7.60	43.57	74.00	-30.43	H	Peak
2548.000	44.43	-2.17	42.26	74.00	-31.74	H	Peak
4213.000	41.77	2.34	44.11	74.00	-29.89	H	Peak
4825.000	41.67	4.41	46.08	74.00	-27.92	H	Peak
6598.000	41.18	7.05	48.23	74.00	-25.77	H	Peak
7930.000	40.32	9.51	49.83	74.00	-24.17	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 or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

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Test Mode: TX / IEEE 802.11g (CH Mid) **Tested by:** Darry Wu

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** Junary 1, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1252.000	50.93	-7.60	43.33	74.00	-30.67	V	Peak
2431.000	45.68	-2.64	43.04	74.00	-30.96	V	Peak
2836.000	43.48	-1.66	41.82	74.00	-32.18	V	Peak
4870.000	43.66	4.56	48.22	74.00	-25.78	V	Peak
5239.000	40.70	5.41	46.11	74.00	-27.89	V	Peak
7309.000	42.61	8.30	50.91	74.00	-23.09	V	Peak
1252.000	51.67	-7.60	44.07	74.00	-29.93	H	Peak
2467.000	45.73	-2.44	43.29	74.00	-30.71	H	Peak
4924.000	43.75	4.73	48.48	74.00	-25.52	H	Peak
5590.000	41.34	5.91	47.25	74.00	-26.75	H	Peak
6841.000	40.88	7.44	48.32	74.00	-25.68	H	Peak
7399.000	43.02	8.48	51.50	74.00	-22.50	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 or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

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