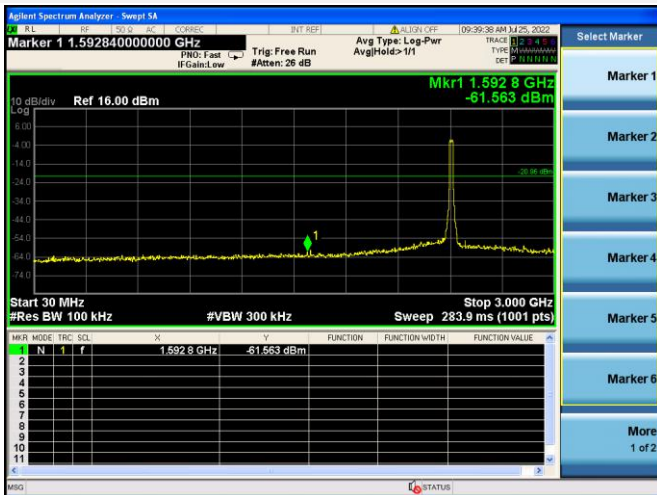


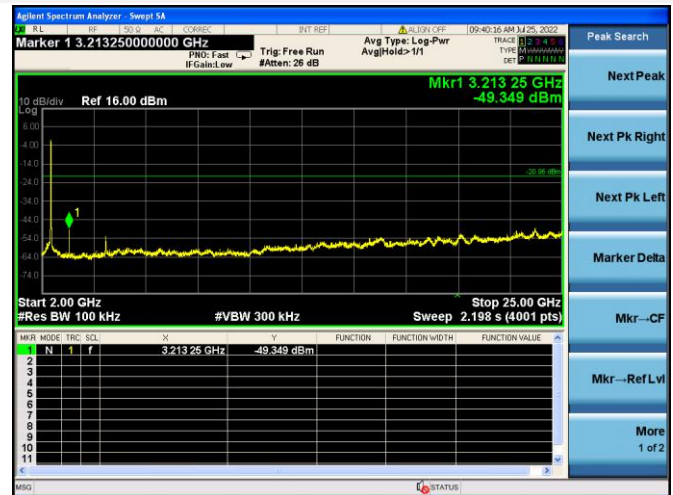
802.11g LOW CHANNEL CARRIER LEVEL



802.11g LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



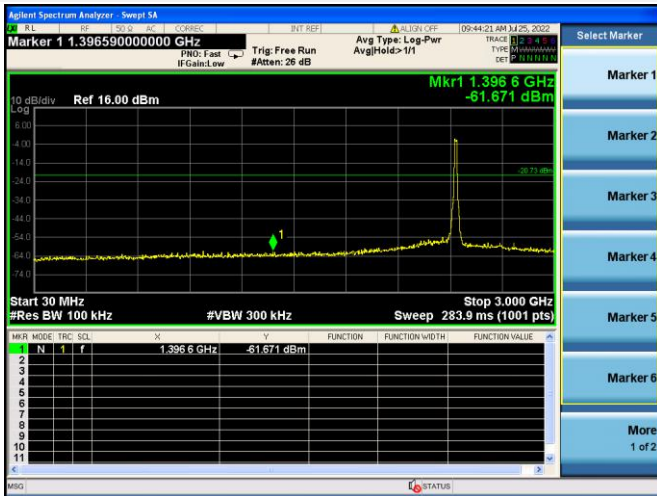
802.11g LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



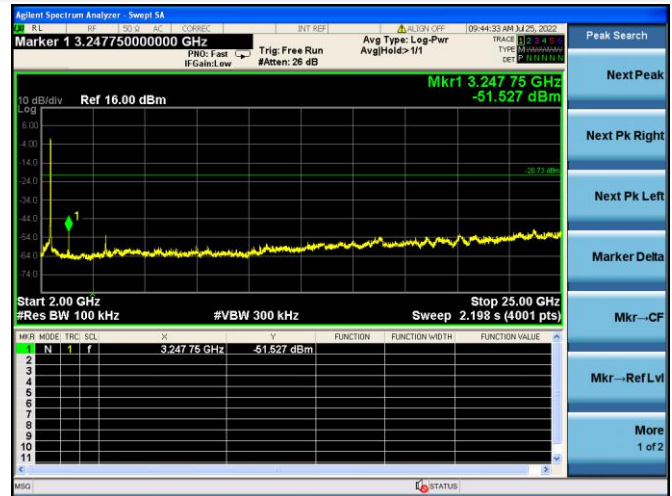
802.11g MIDDLE CHANNEL CARRIER LEVEL



802.11g MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



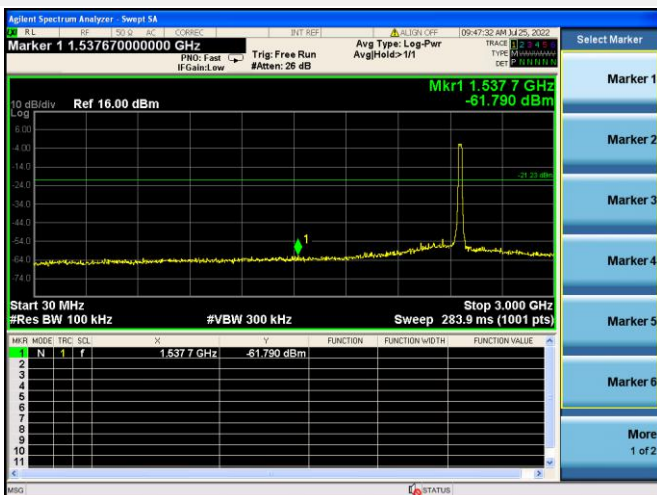
802.11g MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



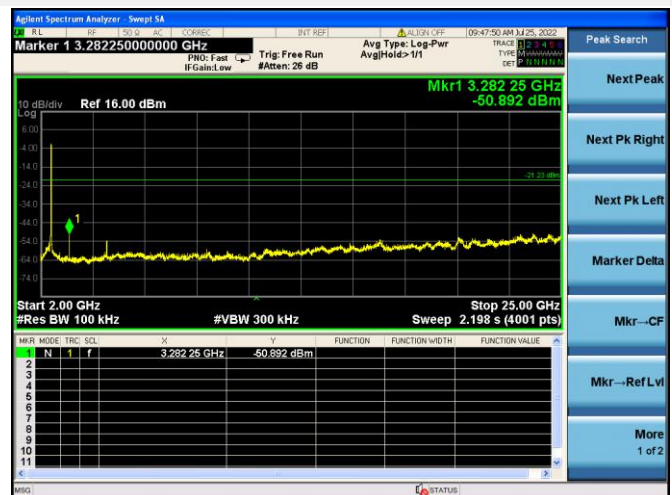
802.11g HIGH CHANNEL CARRIER LEVEL



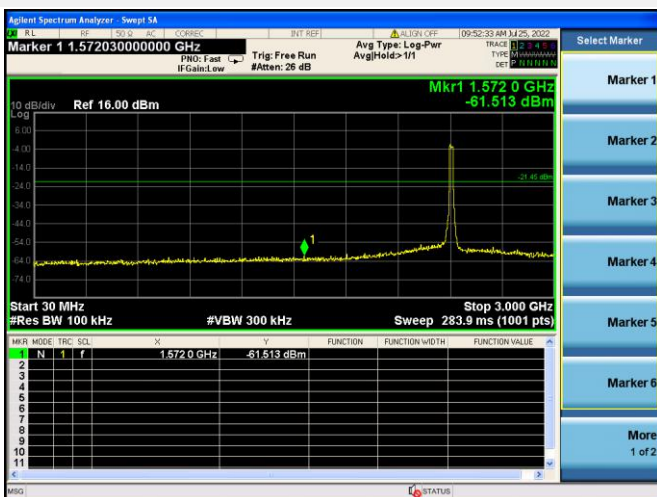
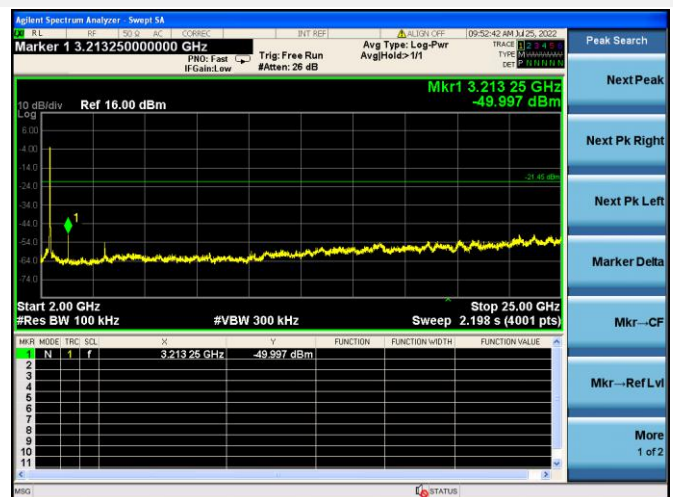
802.11g HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



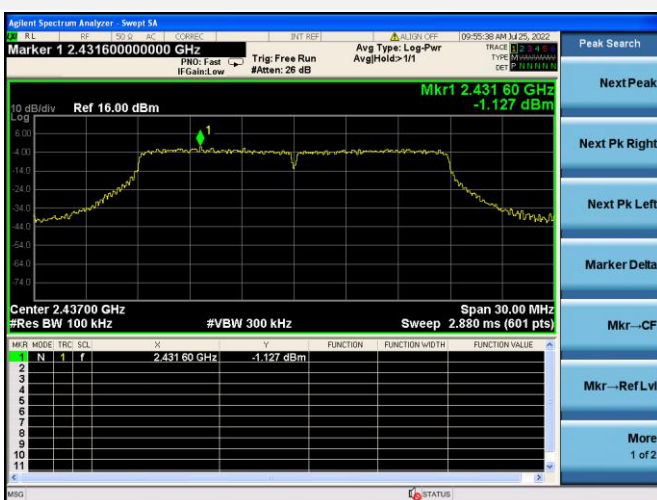
802.11g HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



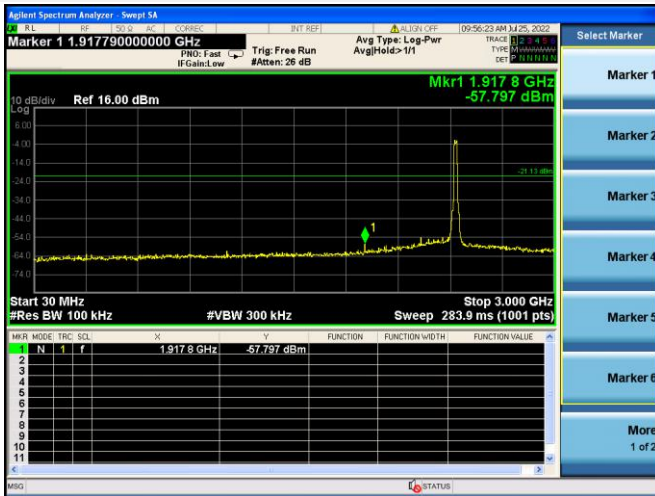
802.11n-20 MHz LOW CHANNEL CARRIER LEVEL

802.11n-20 MHz LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz802.11n-20 MHz LOW CHANNEL, SPURIOUS
2 GHz ~ 25 GHz

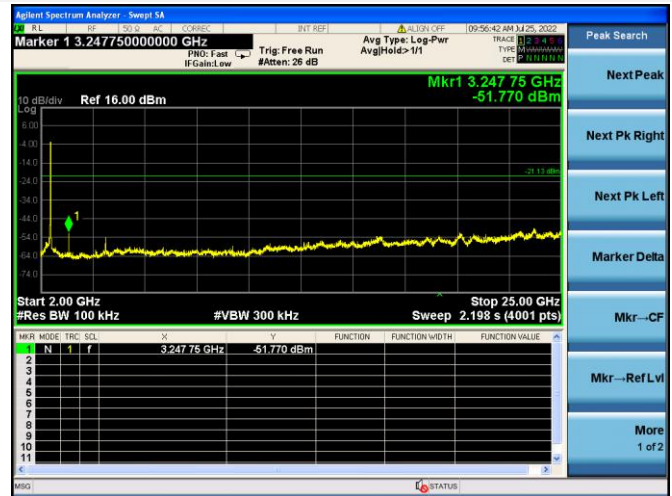
802.11n-20 MHz MIDDLE CHANNEL CARRIER LEVEL



802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



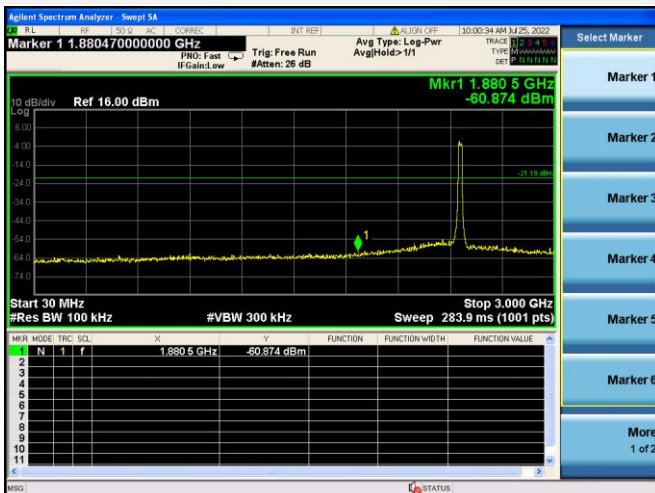
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



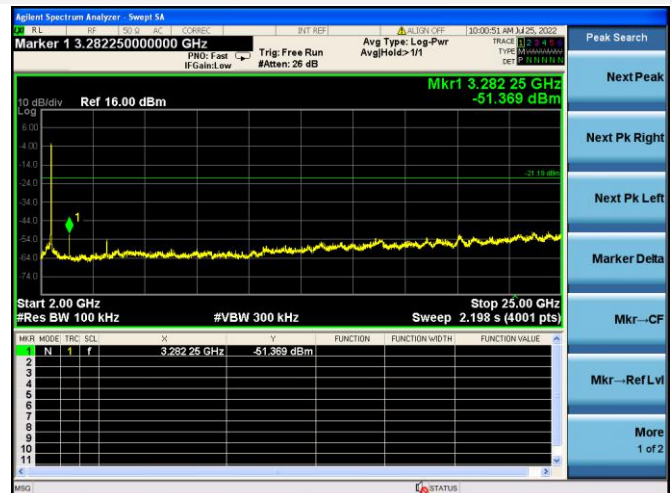
802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL



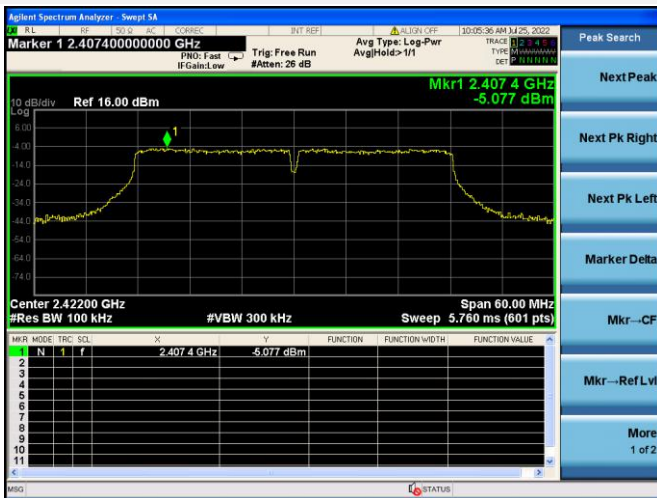
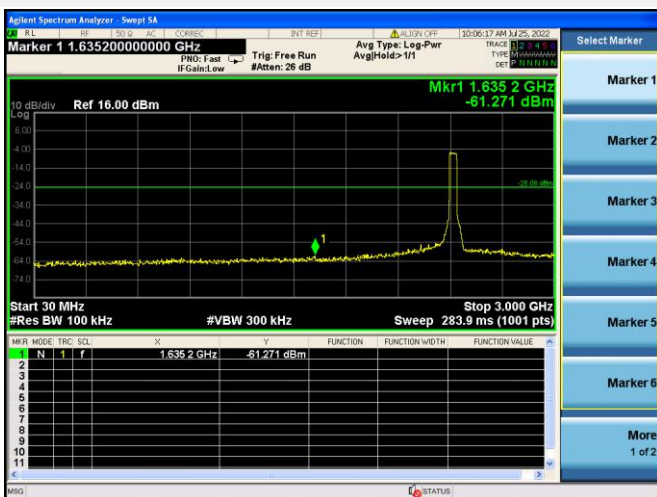
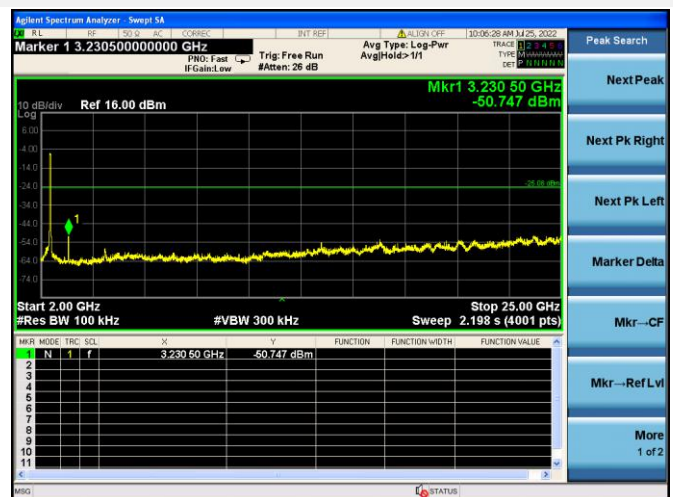
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



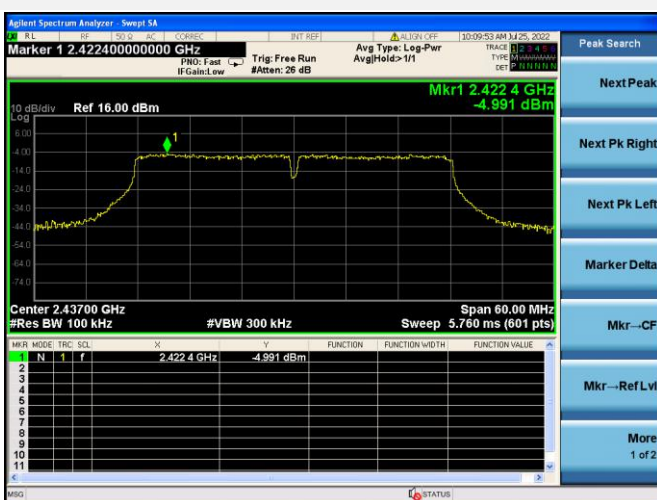
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



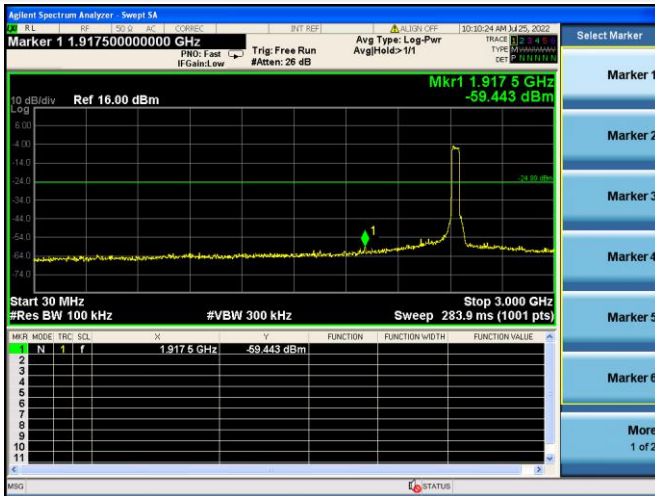
802.11n-40 MHz LOW CHANNEL CARRIER LEVEL

802.11n-40 MHz LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz802.11n-40 MHz LOW CHANNEL, SPURIOUS
2 GHz ~ 25 GHz

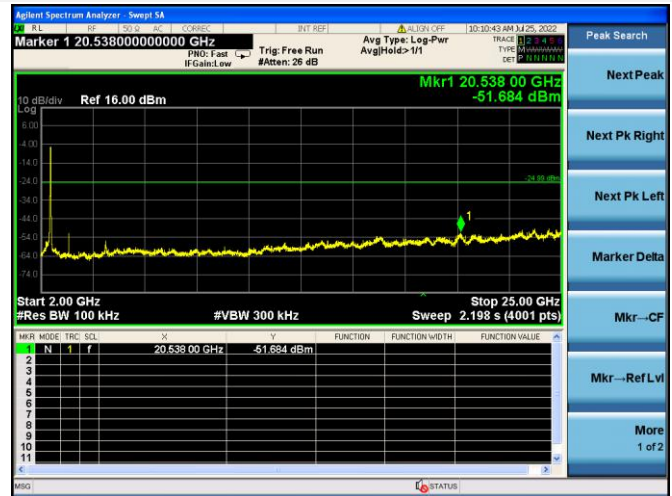
802.11n-40 MHz MIDDLE CHANNEL CARRIER LEVEL



802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



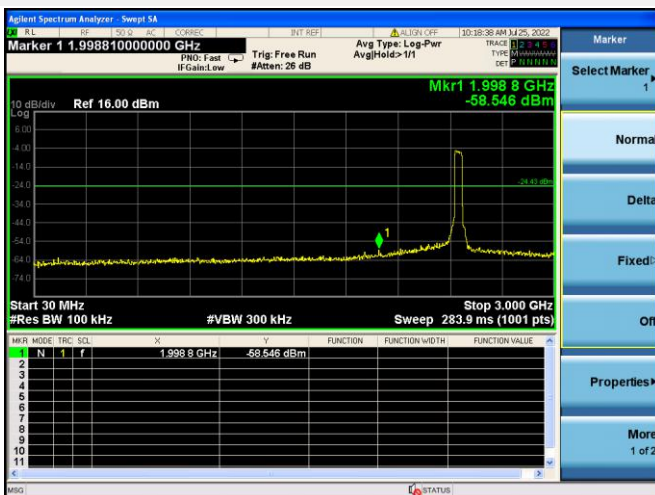
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



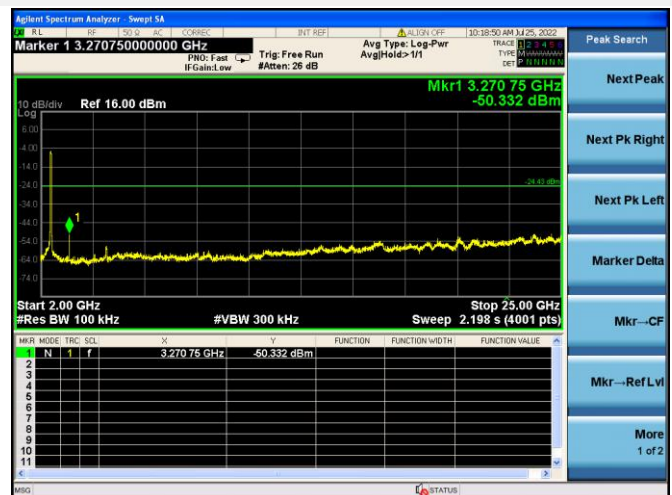
802.11n-40 MHz HIGH CHANNEL CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz

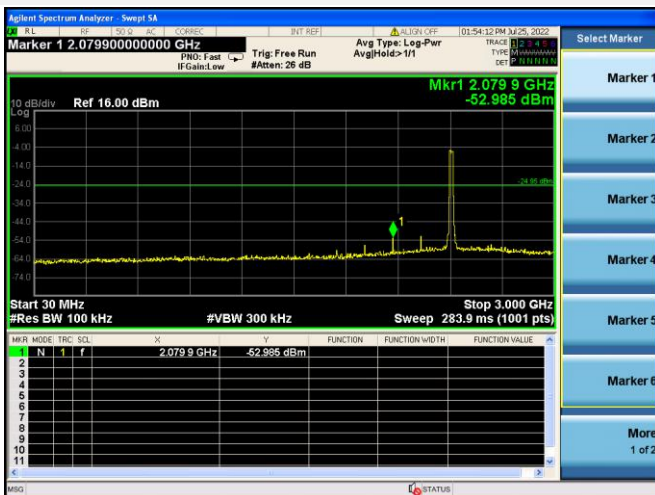
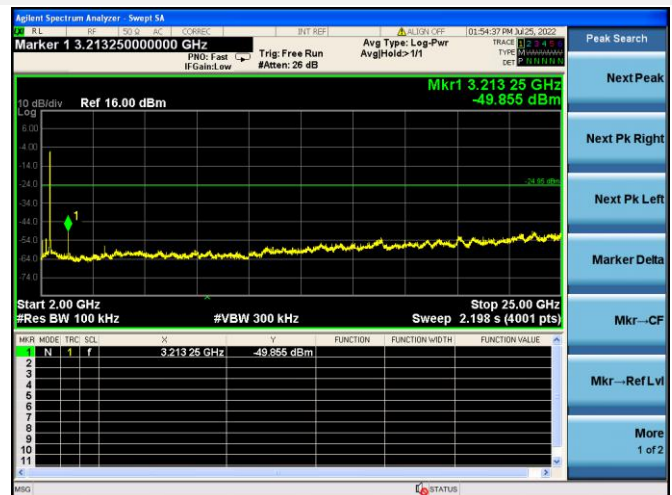


802.11n-40 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



MIMO-Main Antenna

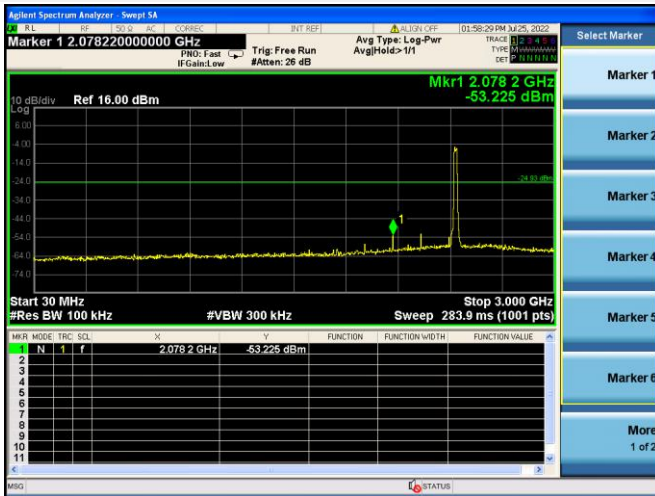
802.11n-20 MHz LOW CHANNEL CARRIER LEVEL

802.11n-20 MHz LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz802.11n-20 MHz LOW CHANNEL, SPURIOUS
2 GHz ~ 25 GHz

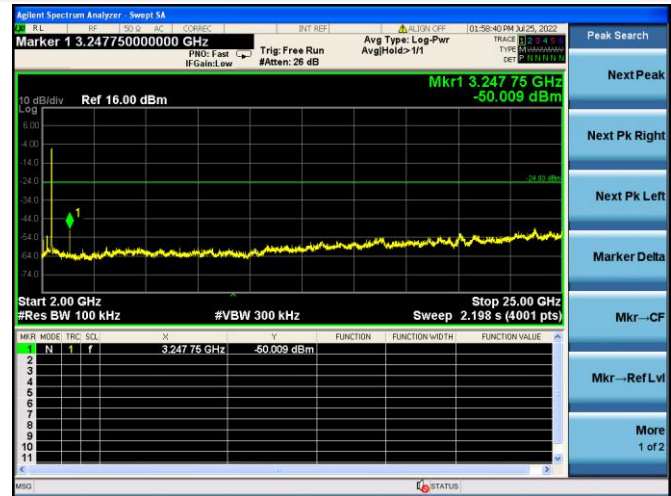
802.11n-20 MHz MIDDLE CHANNEL CARRIER LEVEL



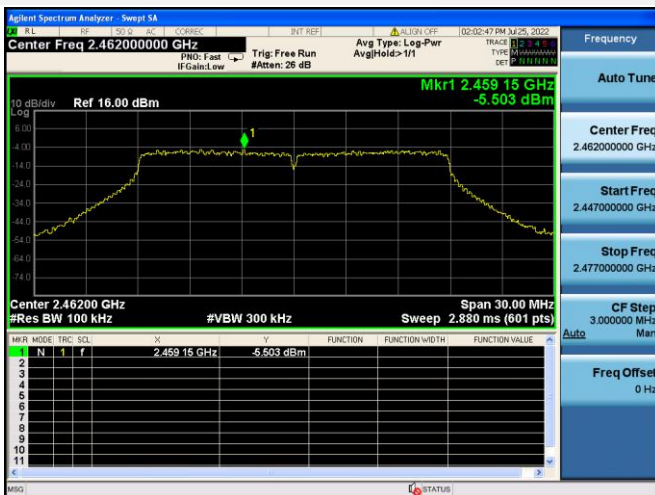
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



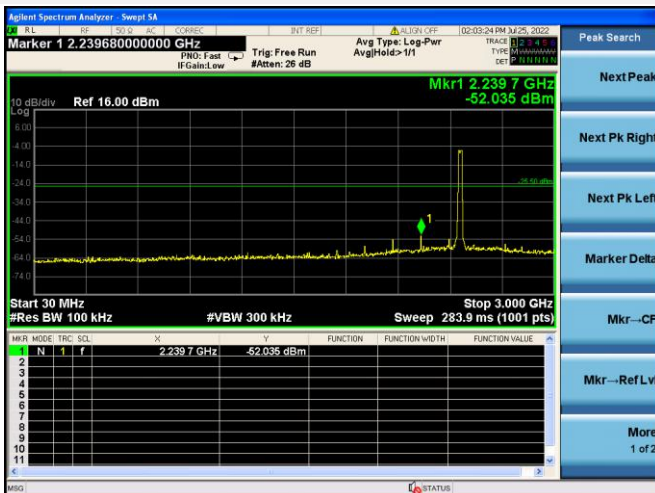
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



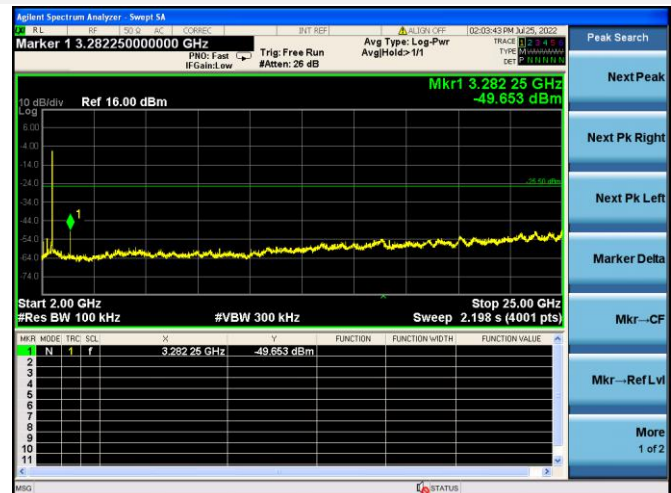
802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL



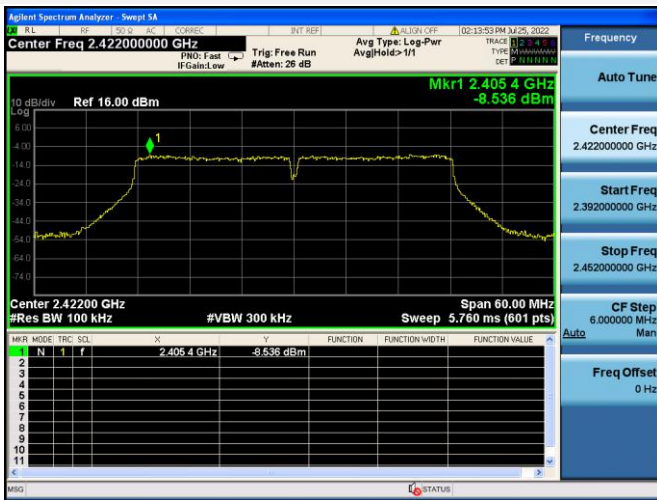
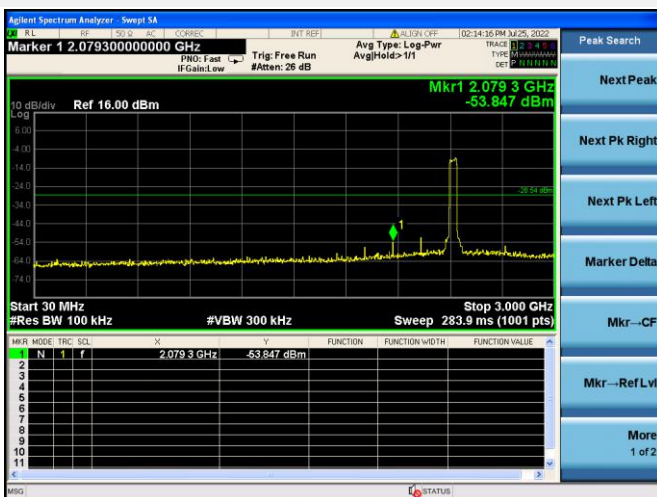
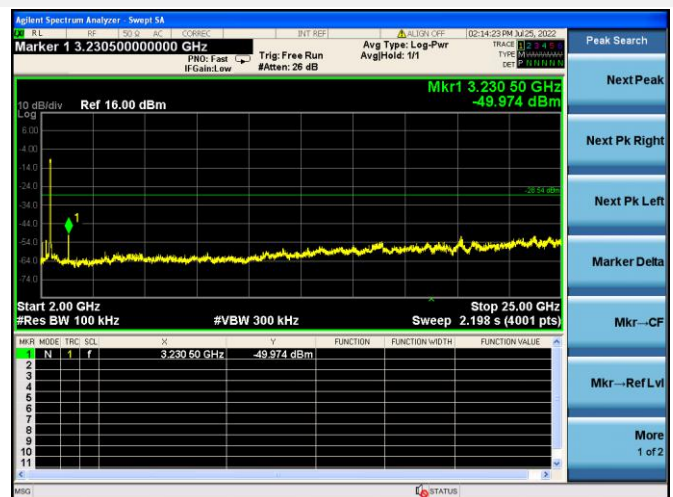
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



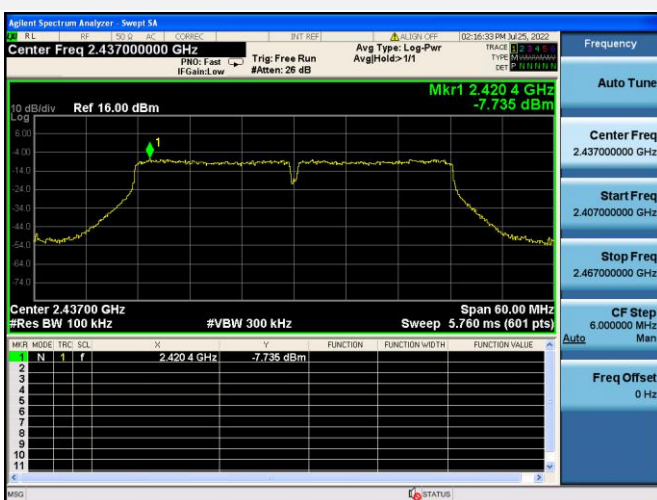
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



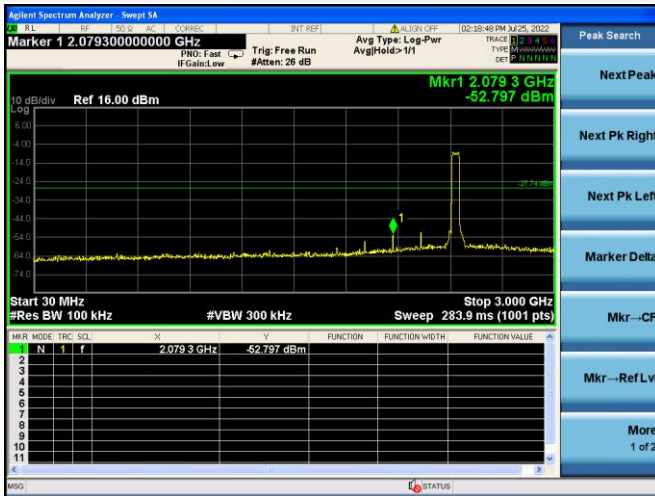
802.11n-40 MHz LOW CHANNEL CARRIER LEVEL

802.11n-40 MHz LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz802.11n-40 MHz LOW CHANNEL, SPURIOUS
2 GHz ~ 25 GHz

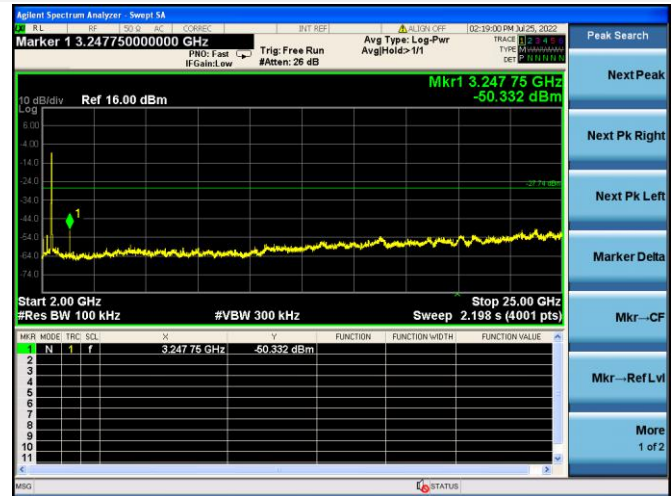
802.11n-40 MHz MIDDLE CHANNEL CARRIER LEVEL



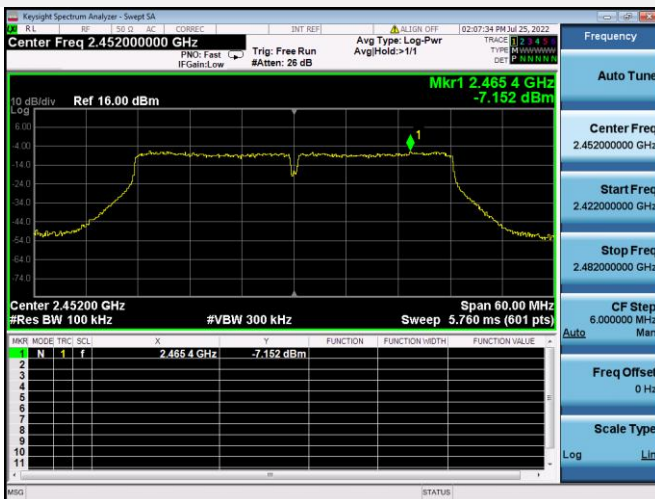
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



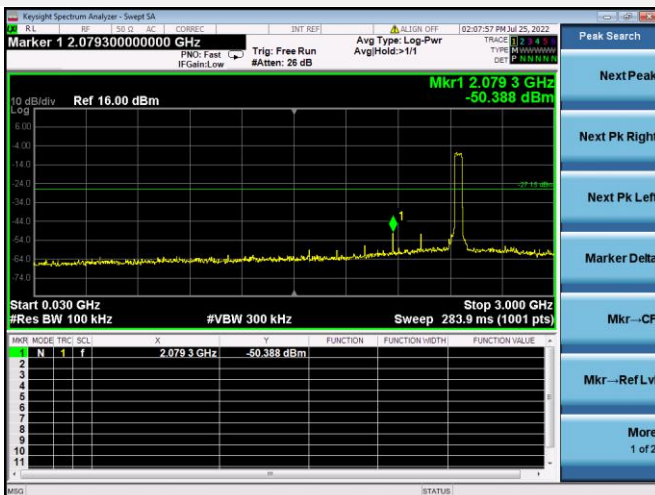
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



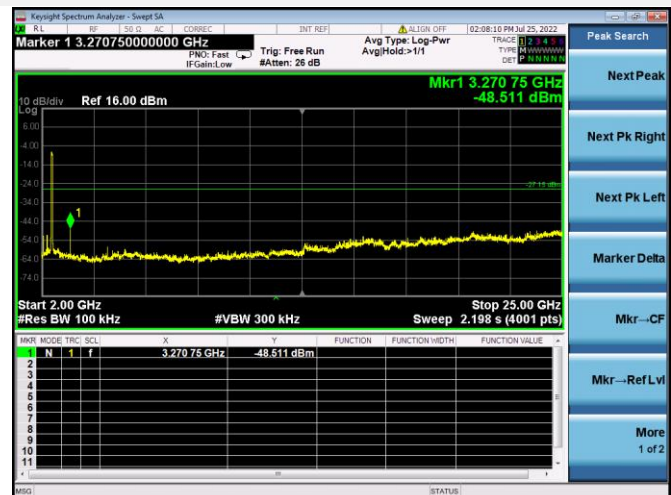
802.11n-40 MHz HIGH CHANNEL CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz

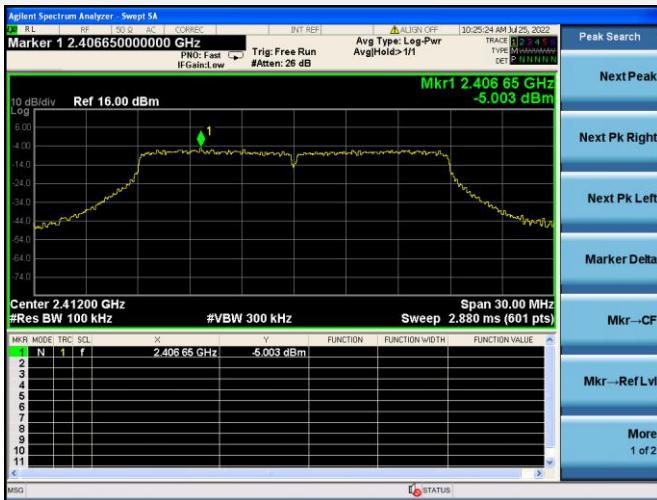
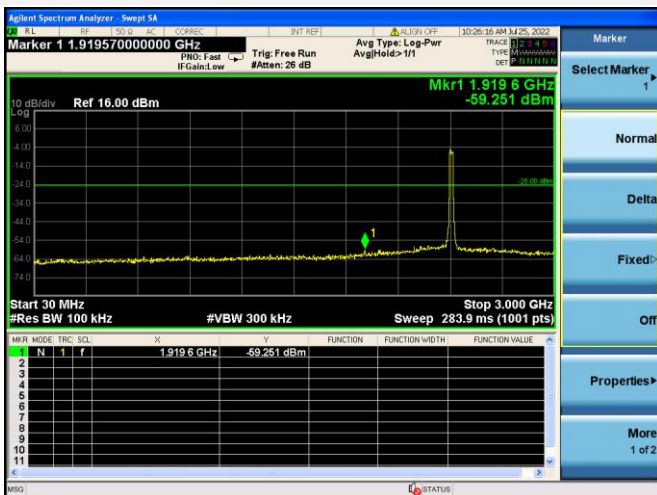
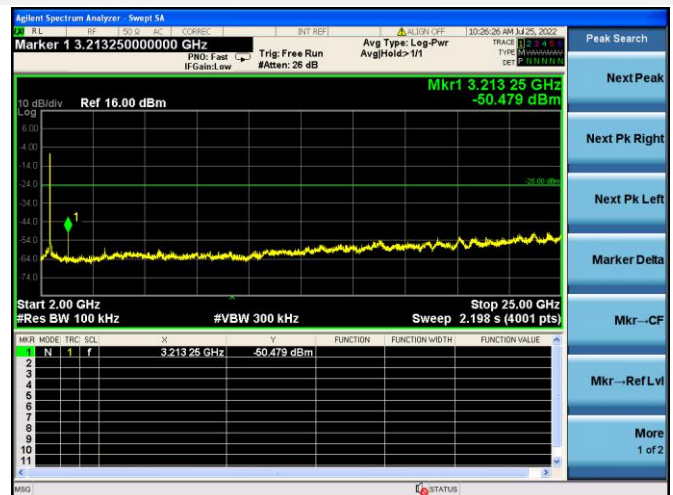


802.11n-40 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

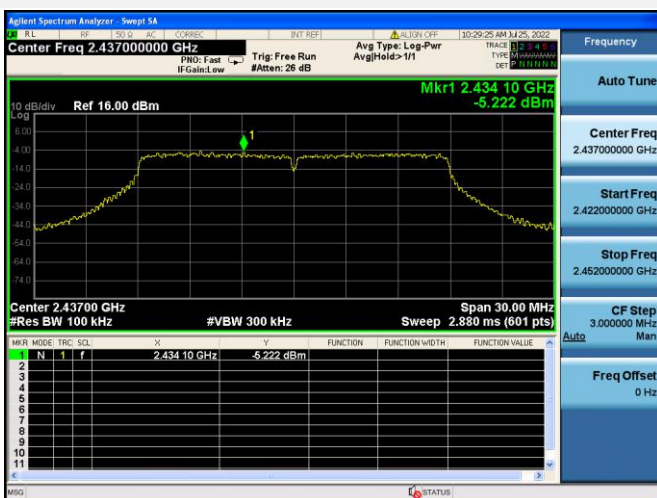


MIMO-Aux. Antenna

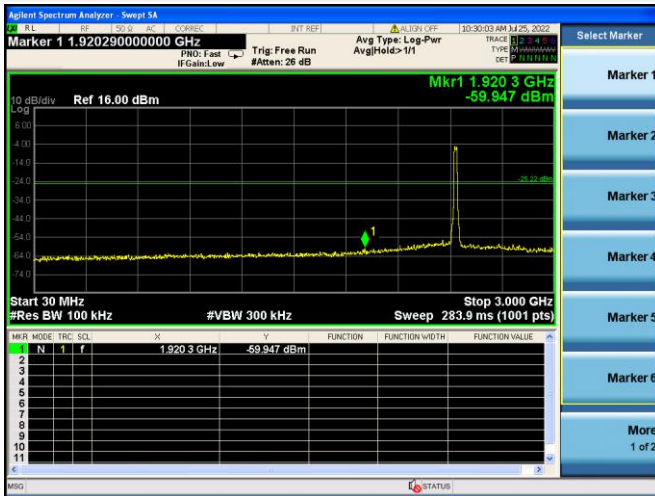
802.11n-20 MHz LOW CHANNEL CARRIER LEVEL

802.11n-20 MHz LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz802.11n-20 MHz LOW CHANNEL, SPURIOUS
2 GHz ~ 25 GHz

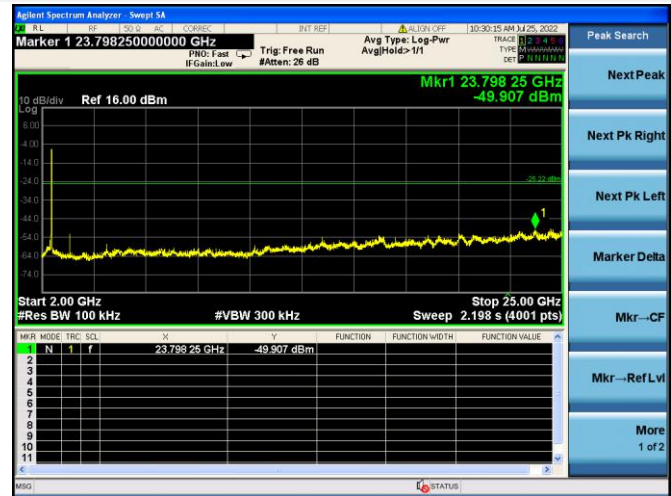
802.11n-20 MHz MIDDLE CHANNEL CARRIER LEVEL



802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



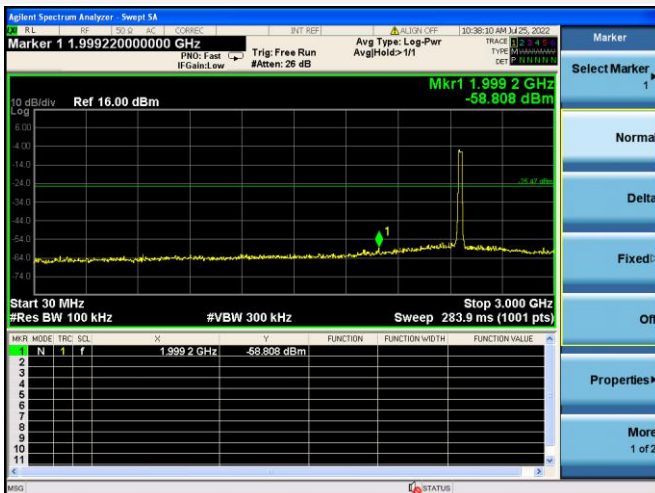
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



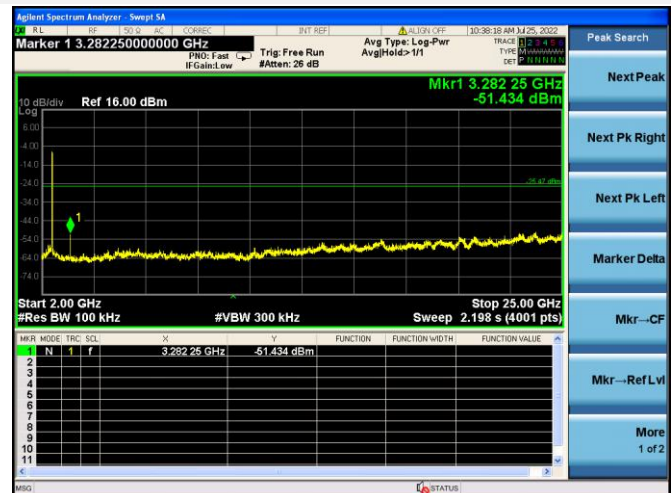
802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL



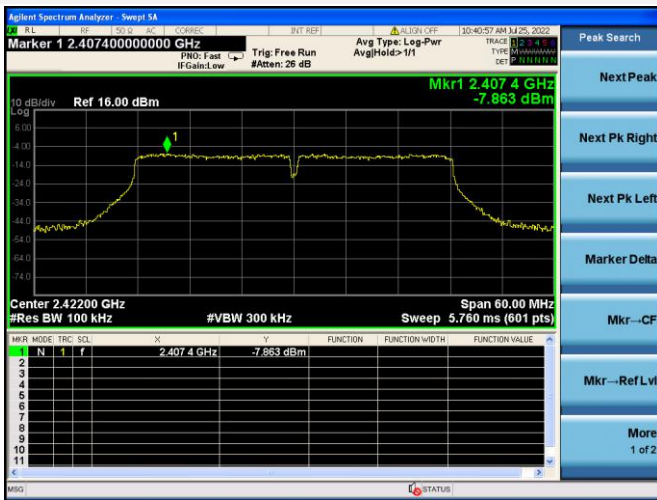
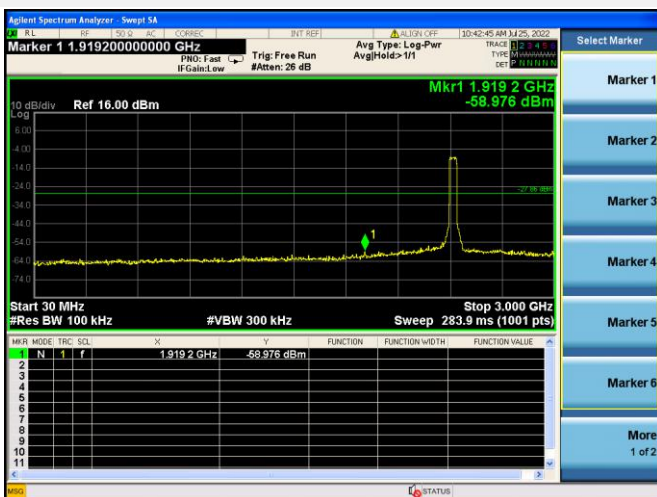
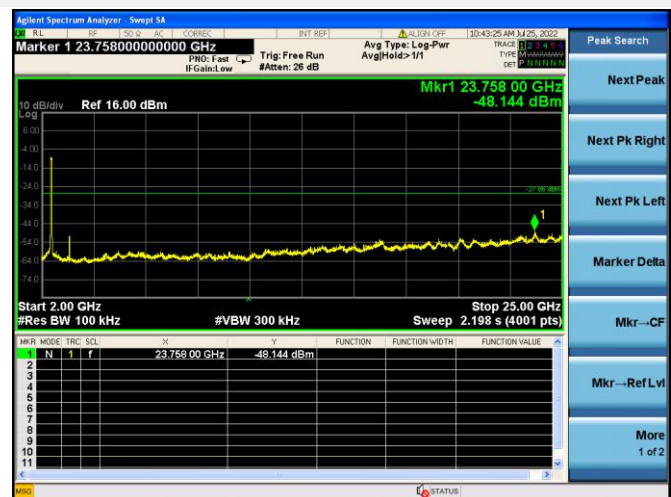
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



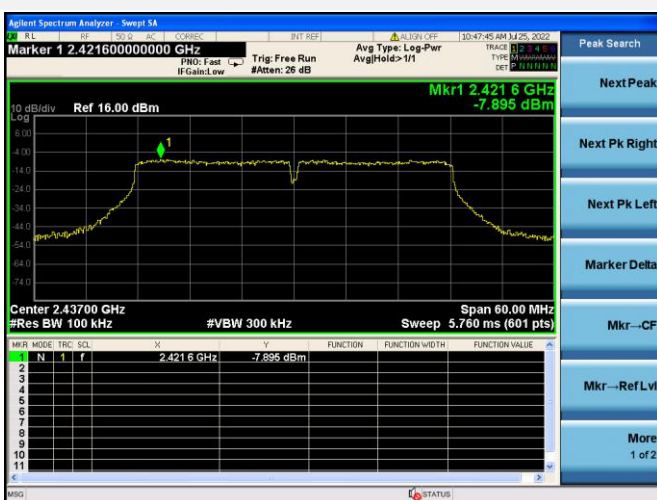
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



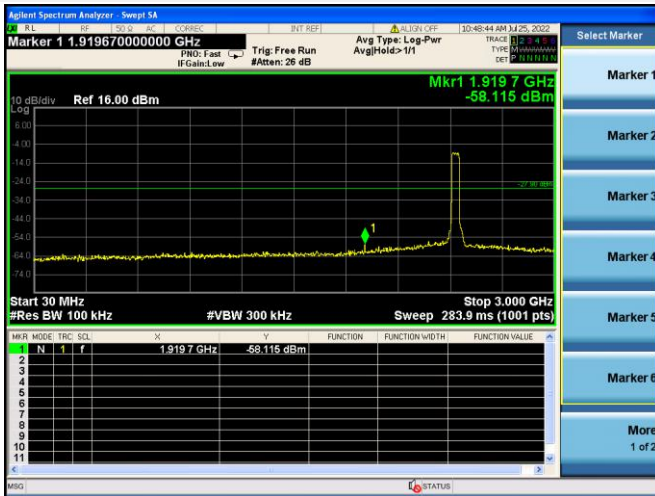
802.11n-40 MHz LOW CHANNEL CARRIER LEVEL

802.11n-40 MHz LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz802.11n-40 MHz LOW CHANNEL, SPURIOUS
2 GHz ~ 25 GHz

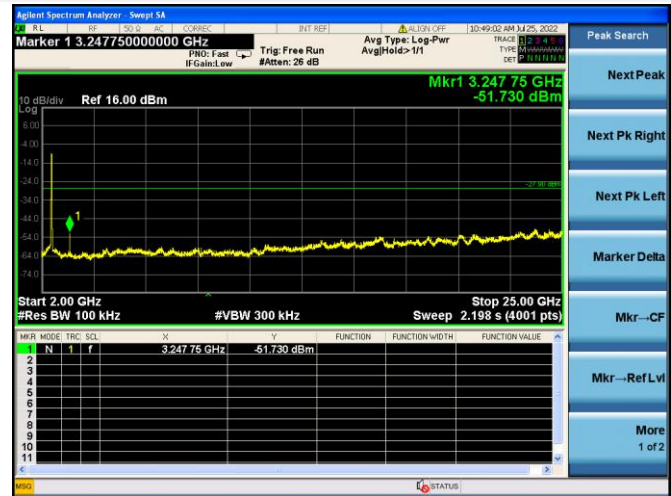
802.11n-40 MHz MIDDLE CHANNEL CARRIER LEVEL



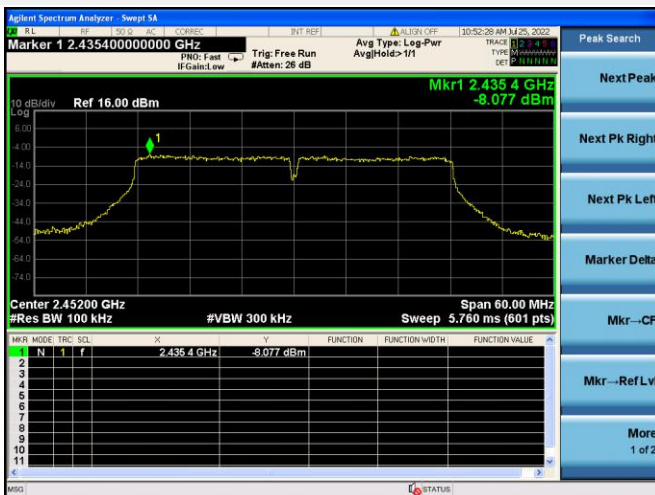
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



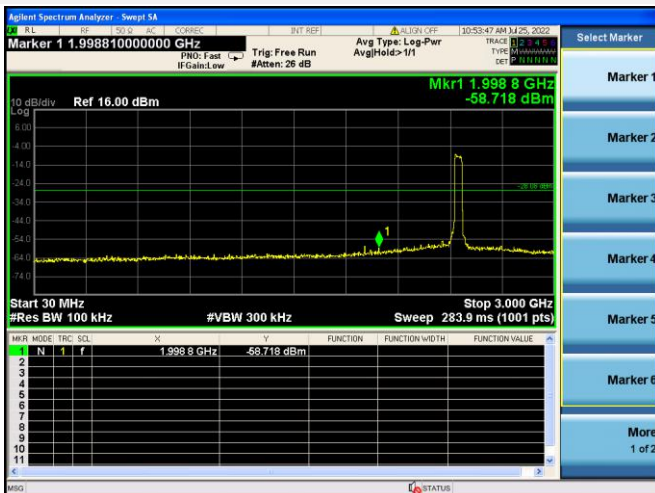
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



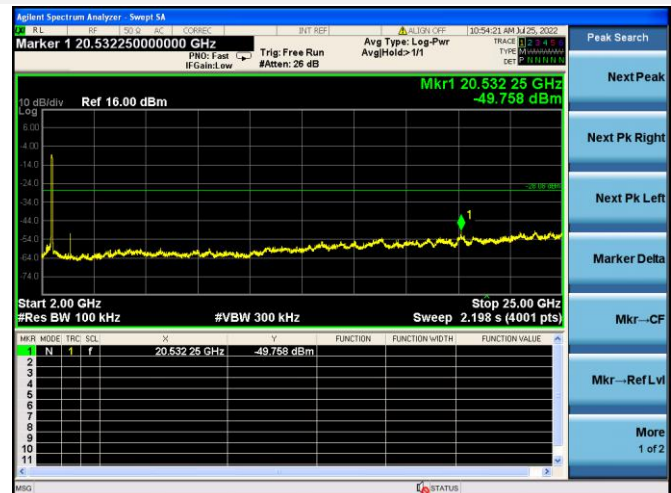
802.11n-40 MHz HIGH CHANNEL CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



802.11n-40 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



5.5 Band Edge (Authorized-band band-edge)

5.5.1 Limit

FCC §15.247(d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.5.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX A.

5.5.3 Test Procedure

The following procedures may be used to determine the peak or average field strength or power of an unwanted emission that is within 2 MHz of the authorized band edge. If a peak detector is utilized, use the procedure described in 13.2.1. Use the procedure described in 13.2.2 when using an average detector and the EUT can be configured to transmit continuously (i.e., duty cycle $\geq 98\%$). Use the procedure described in 13.2.3 when using an average detector and the EUT cannot be configured to transmit continuously but the duty cycle is constant (i.e., duty cycle variations are less than ± 2 percent). Use the procedure described in 13.2.4 when using an average detector for those cases where the EUT cannot be configured to transmit continuously and the duty cycle is not constant (duty cycle variations equal or exceed 2 percent).

When using a peak detector to measure unwanted emissions at or near the band edge (within 2 MHz of the authorized band), the following integration procedure can be used.

Set instrument center frequency to the frequency of the emission to be measured (must be within 2 MHz of the authorized band edge).

Set span to 2 MHz

RBW = 100 kHz.

VBW $\geq 3 \times$ RBW.

Detector = peak.

Sweep time = auto.

Trace mode = max hold.

Allow sweep to continue until the trace stabilizes (required measurement time may increase for low duty cycle applications)

Compute the power by integrating the spectrum over 1 MHz using the analyzer's band power measurement function with band limits set equal to the emission frequency (femission) ± 0.5 MHz. If the instrument does not have a band power function, then sum the amplitude levels (in power units) at 100 kHz intervals extending across the 1 MHz spectrum defined by femission ± 0.5 MHz.

Standard method(The 99% OBW of the fundamental emission is without 2 MHz of the authorized band):

Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation.

Reference level: As required to keep the signal from exceeding the maximum instrument input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (\text{OBW/RBW})]$ below the reference level. Specific guidance is given in 4.1.5.2.

Attenuation: Auto (at least 10 dB preferred).

Sweep time: Coupled.

Resolution bandwidth: 100 kHz.

Video bandwidth: 300 kHz.

Detector: Peak.

Trace: Max hold.

5.5.4 Test Result

Note 1: The 99% OBW of the fundamental emission is without 2 MHz of the authorized band.

Test Data

Main Antenna

802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-44.83	3.79	-16.21	Pass
High Channel	-54.21	3.86	-16.14	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-32.10	-0.45	-20.45	Pass
High Channel	-45.10	-0.95	-20.95	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-33.59	-1.76	-21.76	Pass
High Channel	-47.32	-1.39	-21.39	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-33.29	-2.68	-22.68	Pass
High Channel	-43.58	-5.06	-25.06	Pass

Aux. Antenna

802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-38.83	3.58	-16.43	Pass
High Channel	-53.95	3.89	-16.11	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-34.48	-0.96	-20.96	Pass
High Channel	-49.30	-1.23	-21.23	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-33.86	-1.45	-21.45	Pass
High Channel	-48.73	-1.19	-21.19	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-37.60	-5.08	-25.08	Pass
High Channel	-45.87	-4.43	-24.43	Pass

MIMO-Main Antenna

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-38.96	-4.95	-24.95	Pass
High Channel	-53.53	-5.50	-25.50	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-39.62	-8.54	-28.54	Pass
High Channel	-49.27	-7.15	-27.15	Pass

MIMO-Aux. Antenna

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-38.28	-5.00	-25.00	Pass
High Channel	-54.48	-5.47	-25.47	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-39.62	-7.86	-27.86	Pass
High Channel	-50.78	-8.08	-28.08	Pass

Test Plots

Main Antenna

802.11b LOW CHANNEL, CARRIER LEVEL



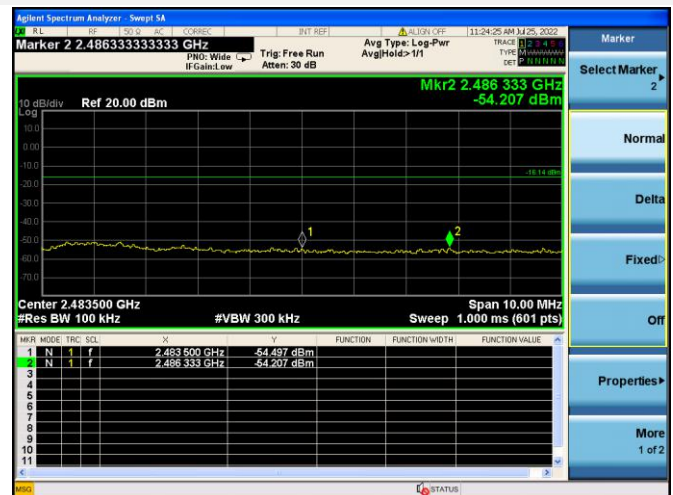
802.11b LOW CHANNEL, BAND EDGE



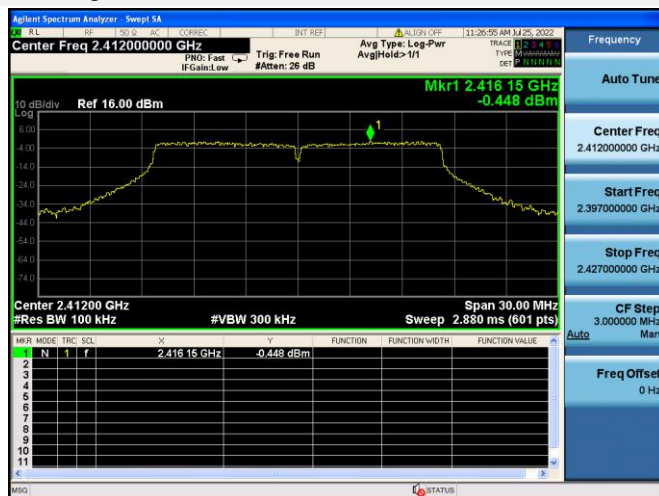
802.11b HIGH CHANNEL, CARRIER LEVEL



802.11b HIGH CHANNEL, BAND EDGE



802.11g LOW CHANNEL, CARRIER LEVEL



802.11g LOW CHANNEL, BAND EDGE



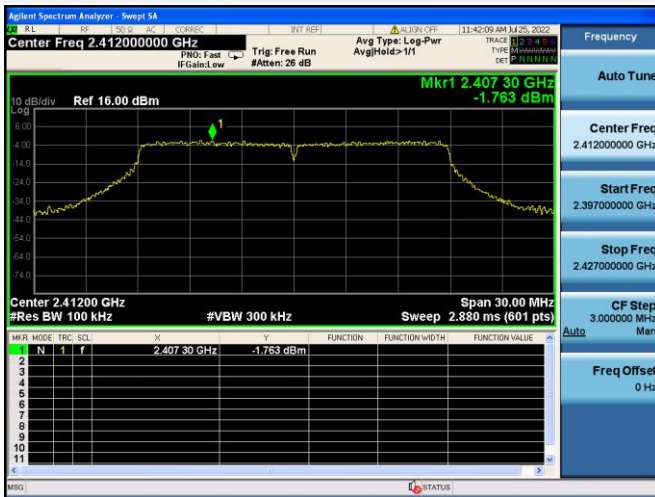
802.11g HIGH CHANNEL, CARRIER LEVEL



802.11g HIGH CHANNEL, BAND EDGE



802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



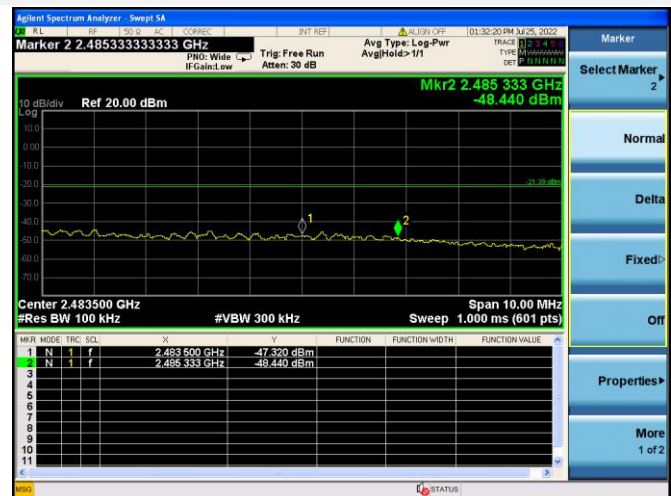
802.11n-20 MHz LOW CHANNEL, BAND EDGE



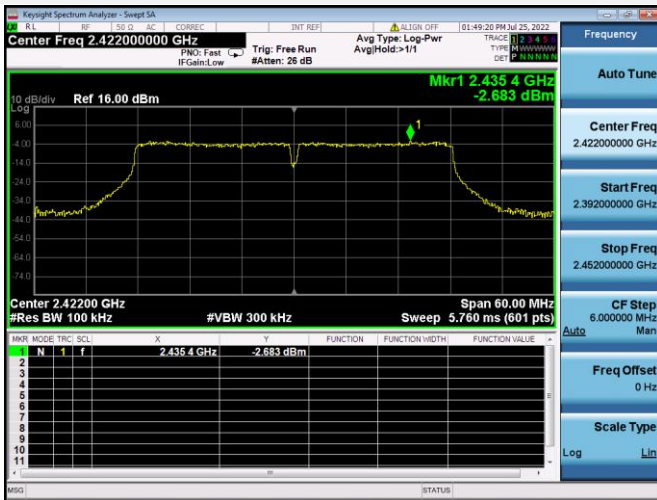
802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-20 MHz HIGH CHANNEL, BAND EDGE



802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



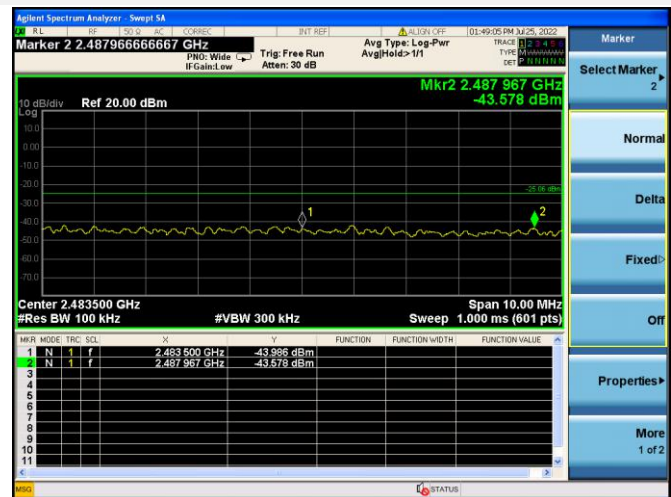
802.11n-40 MHz LOW CHANNEL, BAND EDGE



802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, BAND EDGE



Aux. Antenna

802.11b LOW CHANNEL, CARRIER LEVEL



802.11b LOW CHANNEL, BAND EDGE



802.11b HIGH CHANNEL, CARRIER LEVEL



802.11b HIGH CHANNEL, BAND EDGE



802.11g LOW CHANNEL, CARRIER LEVEL



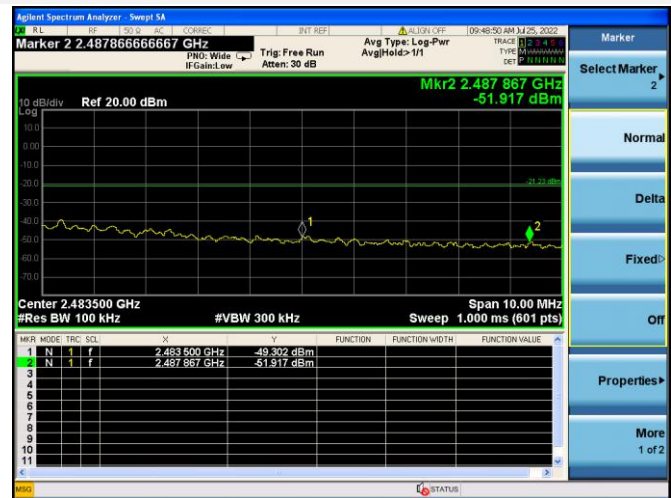
802.11g LOW CHANNEL, BAND EDGE



802.11g HIGH CHANNEL, CARRIER LEVEL



802.11g HIGH CHANNEL, BAND EDGE



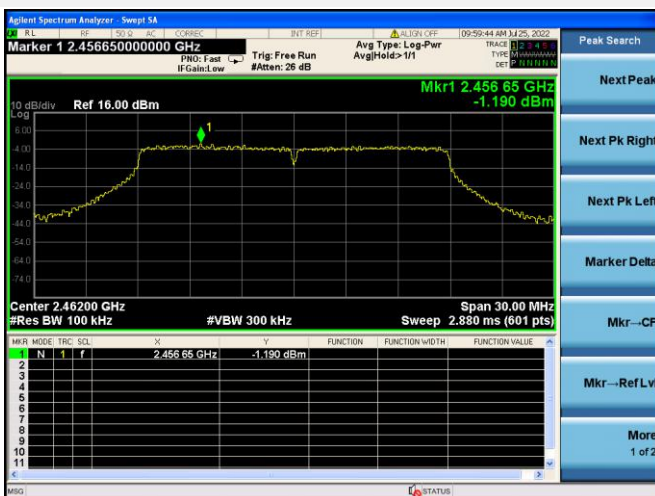
802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



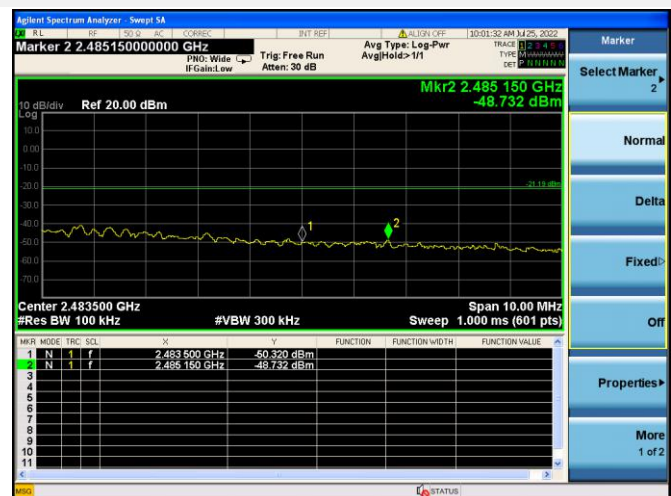
802.11n-20 MHz LOW CHANNEL, BAND EDGE



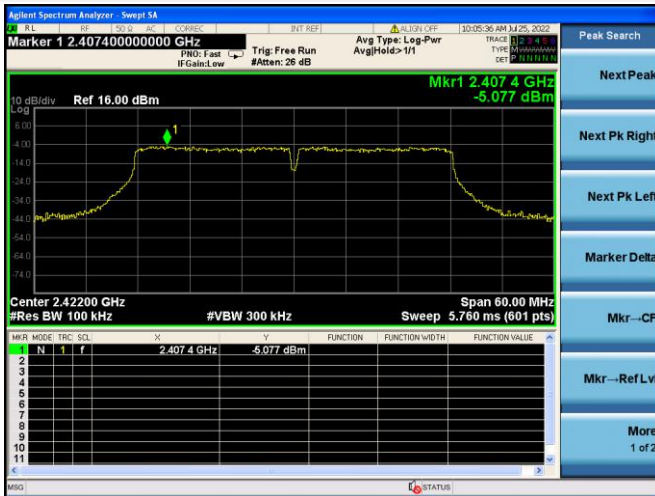
802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-20 MHz HIGH CHANNEL, BAND EDGE



802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



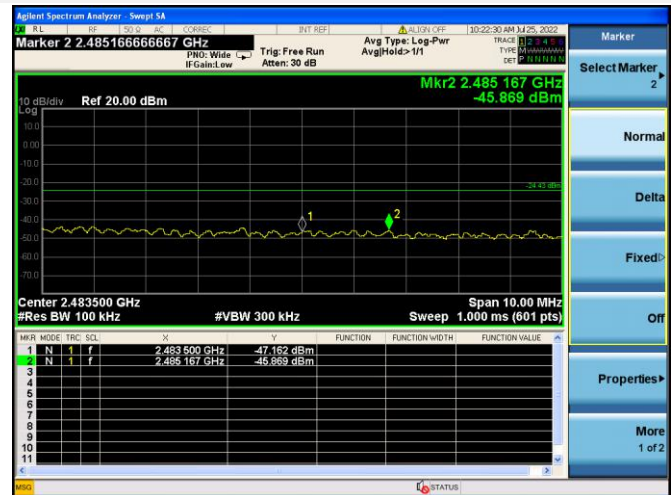
802.11n-40 MHz LOW CHANNEL, BAND EDGE



802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, BAND EDGE



MIMO-Main Antenna

802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



802.11n-20 MHz LOW CHANNEL, BAND EDGE



802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-20 MHz HIGH CHANNEL, BAND EDGE



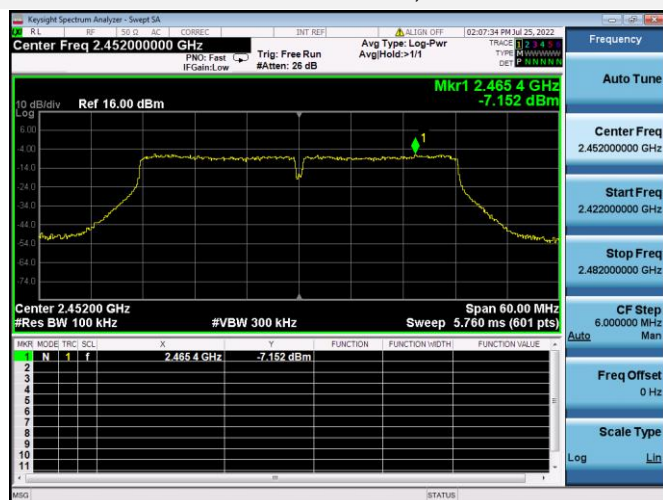
802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



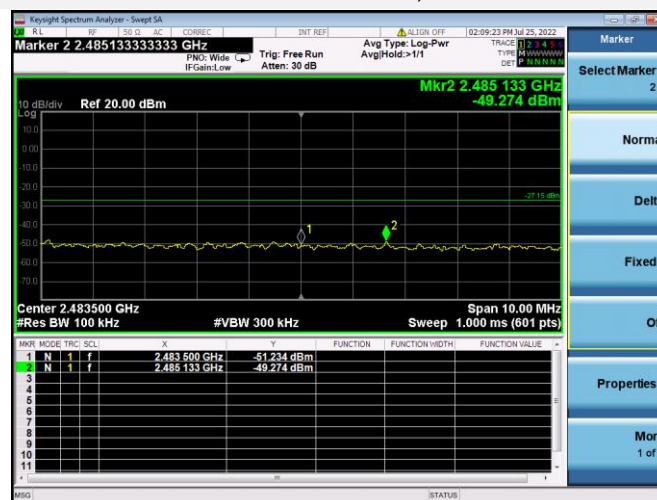
802.11n-40 MHz LOW CHANNEL, BAND EDGE



802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL

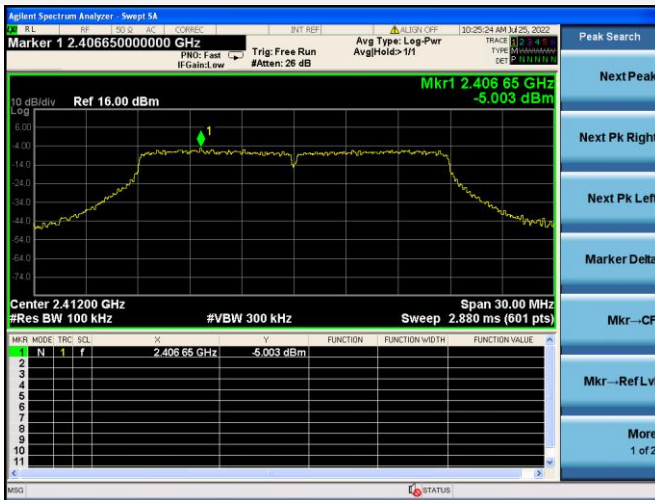


802.11n-40 MHz HIGH CHANNEL, BAND EDGE



MIMO-Aux. Antenna

802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



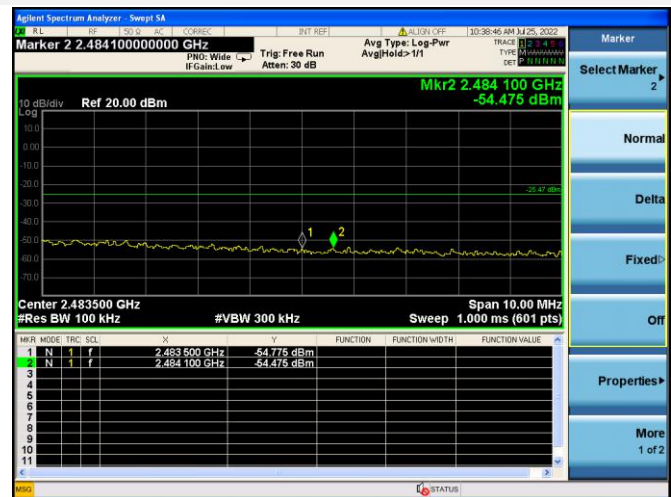
802.11n-20 MHz LOW CHANNEL, BAND EDGE



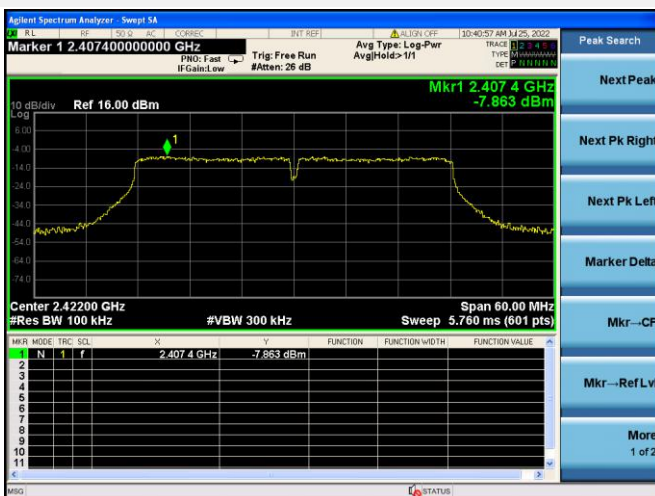
802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-20 MHz HIGH CHANNEL, BAND EDGE



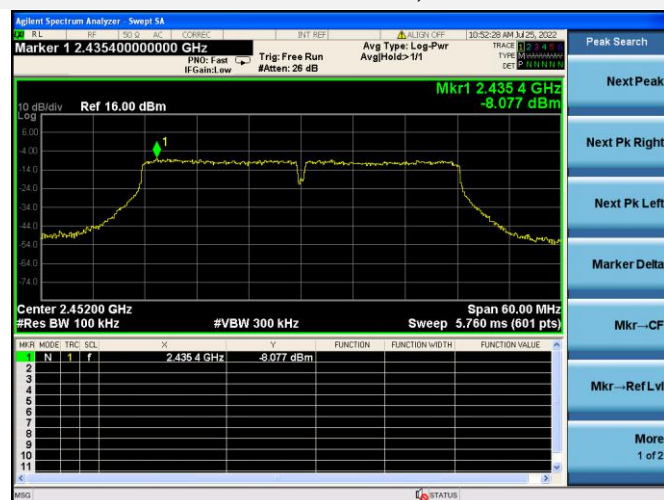
802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



802.11n-40 MHz LOW CHANNEL, BAND EDGE



802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, BAND EDGE



5.6 Conducted Emission

5.6.1 Limit

FCC §15.207

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 within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
0.50 - 30	60	50

5.6.2 Test Setup

See section 4.5.2 for test setup description for the AC power supply port. The photo of test setup please refer to ANNEX A.

5.6.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

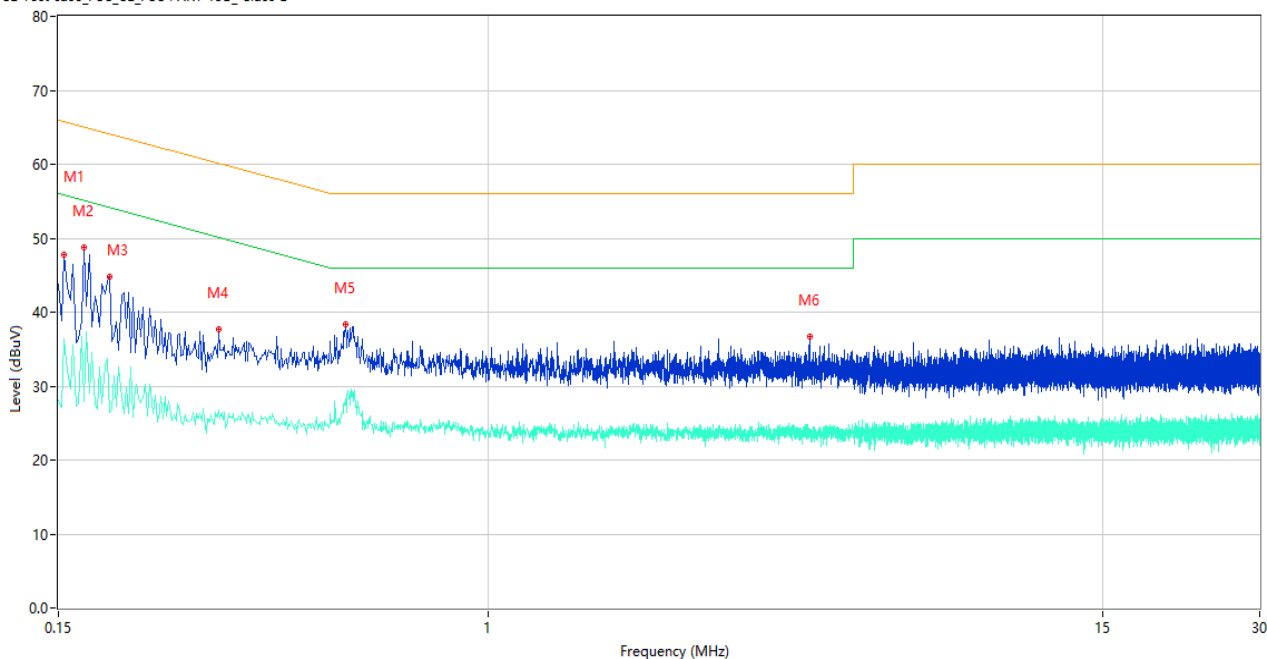
5.6.4 Test Result

Note ¹: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

Test Data and Plots

PHASE L

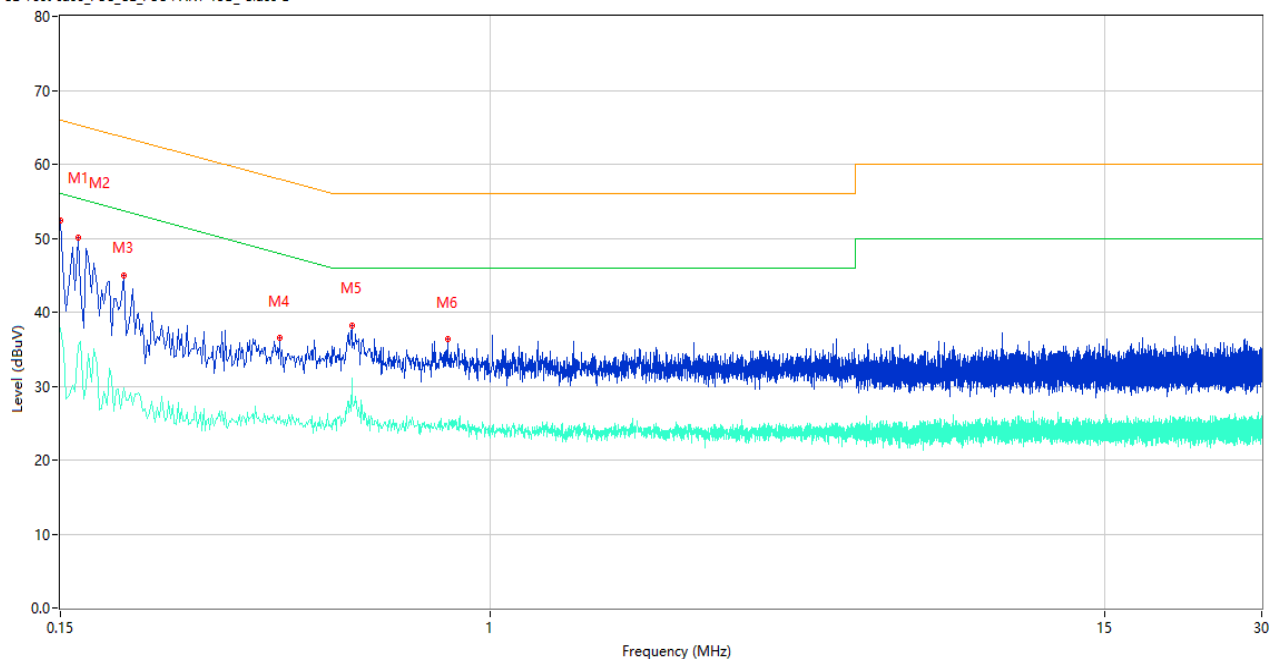
CE Test case_FCC_CE_FCC PART 15B_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.156	43.32	10.09	65.67	-22.35	Peak	L	Pass
1**	0.156	32.13	10.09	55.67	-23.54	AV	L	Pass
2	0.168	48.79	10.08	65.06	-16.27	Peak	L	Pass
2**	0.168	27.95	10.08	55.06	-27.11	AV	L	Pass
3	0.188	44.82	10.06	64.12	-19.30	Peak	L	Pass
3**	0.188	26.38	10.06	54.12	-27.74	AV	L	Pass
4	0.304	37.70	10.06	60.13	-22.43	Peak	L	Pass
4**	0.304	26.84	10.06	50.13	-23.29	AV	L	Pass
5	0.532	38.29	10.20	56.00	-17.71	Peak	L	Pass
5**	0.532	28.26	10.20	46.00	-17.74	AV	L	Pass
6	4.126	36.66	10.13	56.00	-19.34	Peak	L	Pass
6**	4.126	23.32	10.13	46.00	-22.68	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15B_ Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.150	52.48	10.09	66.00	-13.52	Peak	N	Pass
1**	0.150	37.86	10.09	56.00	-18.14	AV	N	Pass
2	0.162	50.13	10.08	65.36	-15.23	Peak	N	Pass
2**	0.162	35.50	10.08	55.36	-19.86	AV	N	Pass
3	0.198	44.88	10.06	63.69	-18.81	Peak	N	Pass
3**	0.198	29.79	10.06	53.69	-23.90	AV	N	Pass
4	0.394	36.48	10.78	57.98	-21.50	Peak	N	Pass
4**	0.394	25.94	10.78	47.98	-22.04	AV	N	Pass
5	0.542	38.24	10.20	56.00	-17.76	Peak	N	Pass
5**	0.542	31.12	10.20	46.00	-14.88	AV	N	Pass
6	0.828	36.41	10.72	56.00	-19.59	Peak	N	Pass
6**	0.828	24.55	10.72	46.00	-21.45	AV	N	Pass

5.7 Radiated Spurious Emission

5.7.1 Limit

FCC §15.209&15.247(d)

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 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 ($\mu\text{V/m}$)	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

Note:

1. For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
2. For above 1000 MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).

5.7.2 Test Setup

See section 4.5.3 to 4.5.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX A.

5.7.3 Test Procedure

Since the emission limits are specified in terms of radiated field strength levels, measurements performed to demonstrate compliance have traditionally relied on a radiated test configuration. Radiated measurements remain the principal method for demonstrating compliance to the specified limits; however antenna-port conducted measurements are also now acceptable to demonstrate compliance (see below for details). When radiated measurements are utilized, test site requirements and procedures for maximizing and measuring radiated emissions that are described in ANSI C63.10 shall be followed.

Antenna-port conducted measurements may also be used as an alternative to radiated measurements for demonstrating compliance in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case spurious emissions is required.

General Procedure for conducted measurements in restricted bands

- a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see guidance on determining the applicable antenna gain)
- c) Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
- d) For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
- e) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20\log D + 104.8$$

where:

E = electric field strength in dB μ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

- f) Compare the resultant electric field strength level to the applicable limit.
- g) Perform radiated spurious emission test.

Quasi-Peak measurement procedure

The specifications for measurements using the CISPR quasi-peak detector can be found in Publication 16 of the International Special Committee on Radio Frequency Interference (CISPR) of the International Electrotechnical Commission.

As an alternative to CISPR quasi-peak measurement, compliance can be demonstrated to the applicable emission limits using a peak detector.

Peak power measurement procedure

Peak emission levels are measured by setting the instrument as follows:

- a) RBW = as specified in Table 1.
- b) VBW $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Sweep time = auto.
- e) Trace mode = max hold.
- f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be

longer for low duty cycle applications).

Table 1—RBW as a function of frequency

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Trace averaging across on and off times of the EUT transmissions followed by duty cycle correction

If continuous transmission of the EUT (i.e., duty cycle ≥ 98 percent) cannot be achieved and the duty cycle is constant (i.e., duty cycle variations are less than ± 2 percent), then the following procedure shall be used:

- a) The EUT shall be configured to operate at the maximum achievable duty cycle.
- b) Measure the duty cycle, x , of the transmitter output signal as described in section 6.0.
- c) RBW = 1 MHz (unless otherwise specified).
- d) VBW $\geq 3 \times$ RBW.
- e) Detector = RMS, if $\text{span}/(\# \text{ of points in sweep}) \leq (\text{RBW}/2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
- f) Averaging type = power (i.e., RMS).
 - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
 - 2) Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.
- g) Sweep time = auto.
- h) Perform a trace average of at least 100 traces.
- i) A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:
 - 1) If power averaging (RMS) mode was used in step f), then the applicable correction factor is $10 \log(1/x)$, where x is the duty cycle.
 - 2) If linear voltage averaging mode was used in step f), then the applicable correction factor is $20 \log(1/x)$, where x is the duty cycle.
 - 3) If a specific emission is demonstrated to be continuous (≥ 98 percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

NOTE: Reduction of the measured emission amplitude levels to account for operational duty factor is not permitted. Compliance is based on emission levels occurring during transmission - not on an average across on and off times of the transmitter.

Determining the applicable transmit antenna gain

A conducted power measurement will determine the maximum output power associated with a restricted band emission; however, in order to determine the associated EIRP level, the gain of the transmitting antenna (in dBi) must be added to the measured output power (in dBm).

Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.

See KDB 662911 for guidance on calculating the additional array gain term when determining the effective antenna gain for a EUT with multiple outputs occupying the same or overlapping frequency ranges in the same band.

Radiated spurious emission test

An additional consideration when performing conducted measurements of restricted band emissions is that unwanted emissions radiating from the EUT cabinet, control circuits, power leads, or intermediate circuit elements will likely go undetected in a conducted measurement configuration. To address this concern, a radiated test shall be performed to ensure that emissions emanating from the EUT cabinet (rather than the antenna port) also comply with the applicable limits.

For these cabinet radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Procedures for performing radiated measurements are specified in ANSI C63.10. All detected emissions shall comply with the applicable limits.

The measurement frequency range is from 30 MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.7.4 Test Result

Note ¹: The symbol of "--" in the table which means not application.

Note ²: For the test data above 1 GHz, According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

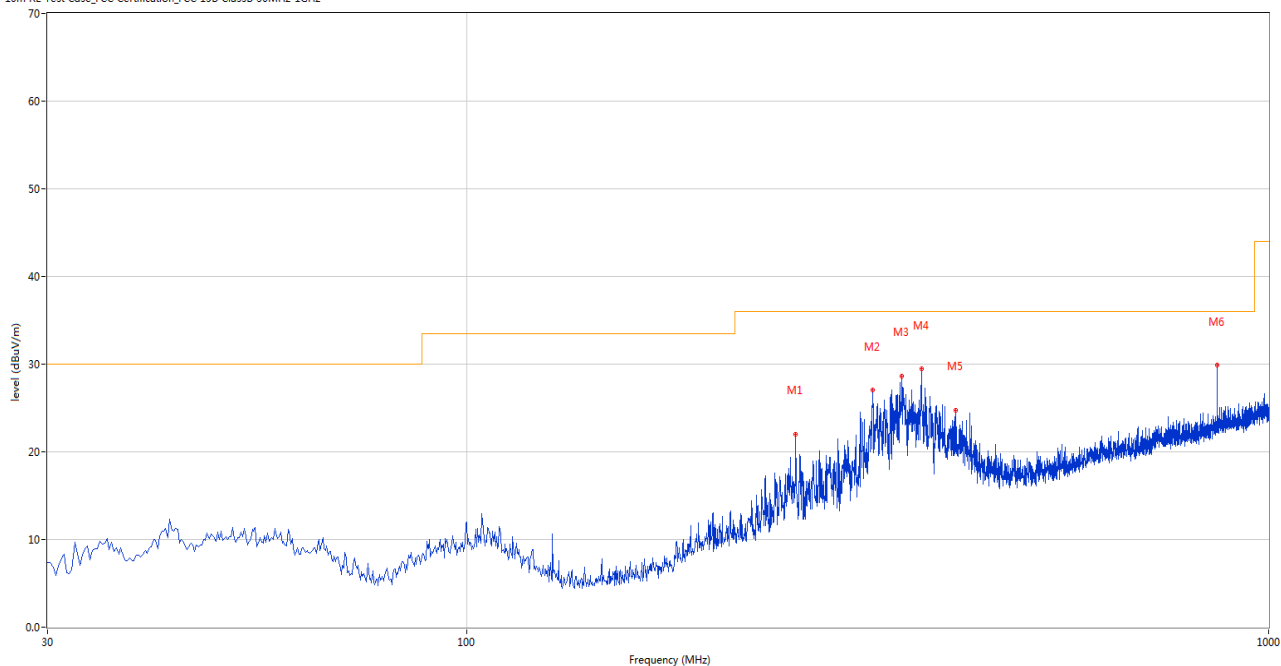
Note ³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note ⁴: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

Test Data and Plots

30 MHz to 1 GHz, ANT H

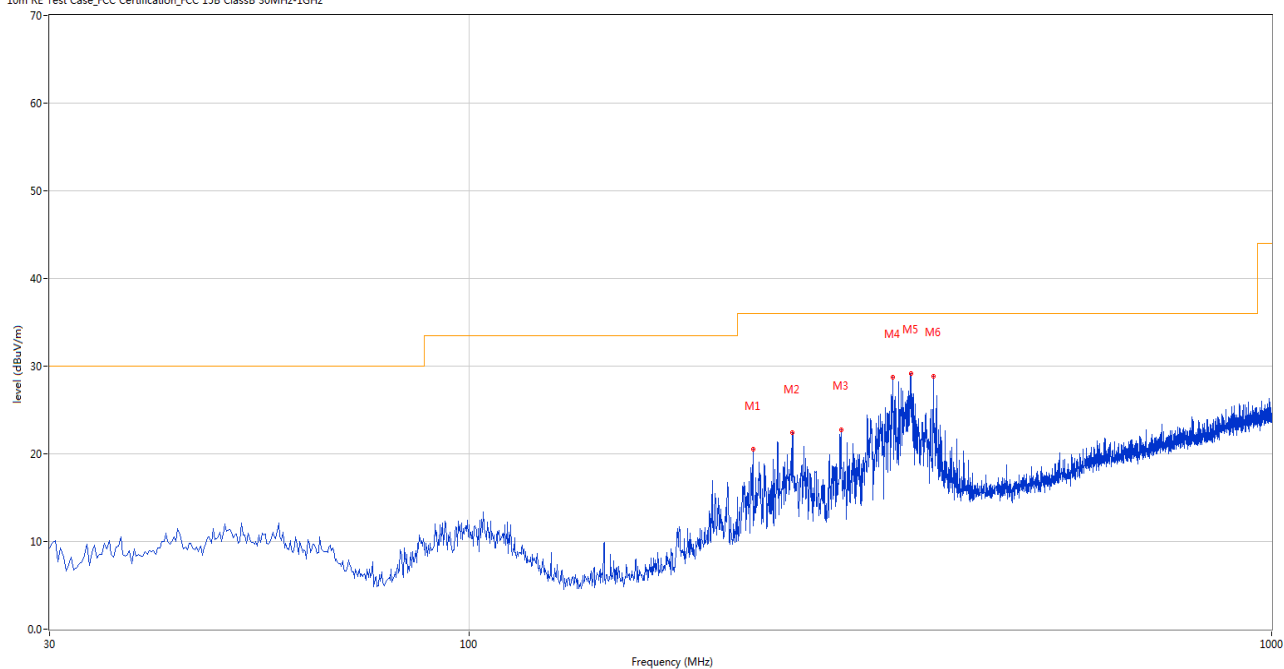
10m RE Test Case_FCC Certification_FCC 15B ClassB 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	256.923	22.04	-25.97	36.0	-13.96	Peak	161.00	200	Horizontal	Pass
2	320.685	27.03	-24.49	36.0	-8.97	Peak	0.00	200	Horizontal	Pass
3	349.050	28.66	-23.47	36.0	-7.34	Peak	70.00	200	Horizontal	Pass
4	369.173	29.42	-23.42	36.0	-6.58	Peak	4.00	200	Horizontal	Pass
5	407.478	24.76	-22.26	36.0	-11.24	Peak	226.00	200	Horizontal	Pass
6	863.022	29.85	-13.08	36.0	-6.15	Peak	134.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

10m RE Test Case_FCC Certification_FCC 15B ClassB 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	225.891	20.53	-27.10	36.0	-15.47	Peak	245.00	100	Vertical	Pass
2	252.802	22.41	-26.27	36.0	-13.59	Peak	149.00	100	Vertical	Pass
3	290.622	22.75	-25.23	36.0	-13.25	Peak	359.00	100	Vertical	Pass
4	336.928	28.74	-23.89	36.0	-7.26	Peak	280.00	100	Vertical	Pass
5	355.354	29.18	-23.18	36.0	-6.82	Peak	285.00	100	Vertical	Pass
6	378.870	28.89	-23.21	36.0	-7.11	Peak	280.00	100	Vertical	Pass

Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note 2: The spurious above 18G is noise only, do not show on the report.

Main Antenna

1 GHz to 18 GHz, ANT H 802.11b Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.400	40.95	-17.61	74.0	-33.05	Peak	149.00	200	Horizontal	Pass
1**	1599.400	30.70	-17.61	54.0	-23.30	AV	149.00	200	Horizontal	Pass
2	2411.900	98.60	-12.26	74.0	24.60	Peak	306.00	100	Horizontal	N/A
2**	2411.900	93.79	-12.26	54.0	39.79	AV	306.00	100	Horizontal	N/A
3	4853.800	50.67	-3.17	74.0	-23.33	Peak	232.00	100	Horizontal	Pass
3**	4853.800	41.66	-3.17	54.0	-12.34	AV	232.00	100	Horizontal	Pass
4	6685.400	54.67	-0.18	74.0	-19.33	Peak	276.00	400	Horizontal	Pass
4**	6685.400	45.43	-0.18	54.0	-8.57	AV	276.00	400	Horizontal	Pass
5	12712.337	53.03	1.01	74.0	-20.97	Peak	236.00	300	Horizontal	Pass
5**	12712.337	44.01	1.01	54.0	-9.99	AV	236.00	300	Horizontal	Pass
6	17420.925	53.68	3.73	74.0	-20.32	Peak	207.00	400	Horizontal	Pass
6**	17420.925	44.73	3.73	54.0	-9.27	AV	207.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1416.200	39.58	-17.54	74.0	-34.42	Peak	130.00	200	Vertical	Pass
1**	1416.200	29.14	-17.54	54.0	-24.86	AV	130.00	200	Vertical	Pass
2	2412.000	103.30	-12.26	74.0	29.30	Peak	195.00	100	Vertical	N/A
2**	2412.000	98.79	-12.26	54.0	44.79	AV	195.00	100	Vertical	N/A
3	3216.200	52.92	-7.28	74.0	-21.08	Peak	174.00	150	Vertical	Pass
3**	3216.200	51.00	-7.28	54.0	-3.00	AV	174.00	150	Vertical	N/A
4	4824.200	51.13	-3.39	74.0	-22.87	Peak	297.00	150	Vertical	Pass
4**	4824.200	47.82	-3.39	54.0	-6.18	AV	297.00	150	Vertical	Pass
5	8643.925	50.57	-1.85	74.0	-23.43	Peak	355.00	150	Vertical	Pass
5**	8643.925	40.92	-1.85	54.0	-13.08	AV	355.00	150	Vertical	Pass
6	17205.150	53.33	1.64	74.0	-20.67	Peak	0.00	300	Vertical	Pass
6**	17205.150	44.47	1.64	54.0	-9.53	AV	0.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1597.300	39.93	-17.61	74.0	-34.07	Peak	145.00	200	Horizontal	Pass
1**	1597.300	30.21	-17.61	54.0	-23.79	AV	145.00	200	Horizontal	Pass
2	2437.000	97.86	-12.65	74.0	23.86	Peak	28.00	150	Horizontal	N/A
2**	2437.000	93.98	-12.65	54.0	39.98	AV	28.00	150	Horizontal	N/A
3	4885.600	50.92	-3.33	74.0	-23.08	Peak	195.00	100	Horizontal	Pass
3**	4885.600	41.18	-3.33	54.0	-12.82	AV	195.00	100	Horizontal	Pass
4	6605.600	53.68	0.09	74.0	-20.32	Peak	18.00	200	Horizontal	Pass
4**	6605.600	46.09	0.09	54.0	-7.91	AV	18.00	200	Horizontal	Pass
5	12261.537	52.90	1.14	74.0	-21.10	Peak	360.00	400	Horizontal	Pass
5**	12261.537	43.46	1.14	54.0	-10.54	AV	360.00	400	Horizontal	Pass
6	17209.874	53.08	1.49	74.0	-20.92	Peak	106.00	400	Horizontal	Pass
6**	17209.874	45.21	1.49	54.0	-8.79	AV	106.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1196.200	40.84	-17.93	74.0	-33.16	Peak	272.00	200	Vertical	Pass
1**	1196.200	33.36	-17.93	54.0	-20.64	AV	272.00	200	Vertical	Pass
2	2435.900	103.36	-12.77	74.0	29.36	Peak	196.00	100	Vertical	N/A
2**	2435.900	100.19	-12.77	54.0	46.19	AV	196.00	100	Vertical	N/A
3	3249.600	52.47	-8.56	74.0	-21.53	Peak	175.00	150	Vertical	Pass
3**	3249.600	51.44	-8.56	54.0	-2.56	AV	175.00	150	Vertical	N/A
4	4874.000	52.05	-3.34	74.0	-21.95	Peak	287.00	150	Vertical	Pass
4**	4874.000	48.58	-3.34	54.0	-5.42	AV	287.00	150	Vertical	Pass
5	12330.250	52.96	1.41	74.0	-21.04	Peak	218.00	300	Vertical	Pass
5**	12330.250	43.84	1.41	54.0	-10.16	AV	218.00	300	Vertical	Pass
6	17424.337	53.17	3.64	74.0	-20.83	Peak	24.00	150	Vertical	Pass
6**	17424.337	46.40	3.64	54.0	-7.60	AV	24.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1395.900	40.06	-17.49	74.0	-33.94	Peak	183.00	300	Horizontal	Pass
1**	1395.900	29.28	-17.49	54.0	-24.72	AV	183.00	300	Horizontal	Pass
2	2461.900	98.46	-12.77	74.0	24.46	Peak	302.00	100	Horizontal	N/A
2**	2461.900	94.02	-12.77	54.0	40.02	AV	302.00	100	Horizontal	N/A
3	4913.600	50.76	-2.25	74.0	-23.24	Peak	174.00	200	Horizontal	Pass
3**	4913.600	42.10	-2.25	54.0	-11.90	AV	174.00	200	Horizontal	Pass
4	6606.000	53.83	0.12	74.0	-20.17	Peak	0.00	100	Horizontal	Pass
4**	6606.000	44.82	0.12	54.0	-9.18	AV	0.00	100	Horizontal	Pass
5	12226.175	52.84	1.31	74.0	-21.16	Peak	117.00	100	Horizontal	Pass
5**	12226.175	43.99	1.31	54.0	-10.01	AV	117.00	100	Horizontal	Pass
6	17416.462	53.05	3.67	74.0	-20.95	Peak	286.00	400	Horizontal	Pass
6**	17416.462	45.44	3.67	54.0	-8.56	AV	286.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1391.900	40.73	-17.48	74.0	-33.27	Peak	147.00	100	Vertical	Pass
1**	1391.900	31.82	-17.48	54.0	-22.18	AV	147.00	100	Vertical	Pass
2	2463.400	103.56	-12.79	74.0	29.56	Peak	192.00	200	Vertical	N/A
2**	2463.400	100.39	-12.79	54.0	46.39	AV	192.00	200	Vertical	N/A
3	3283.000	52.72	-8.14	74.0	-21.28	Peak	184.00	150	Vertical	Pass
3**	3283.000	52.34	-8.14	54.0	-1.66	AV	184.00	150	Vertical	N/A
4	4924.200	51.03	-2.60	74.0	-22.97	Peak	40.00	150	Vertical	Pass
4**	4924.200	48.27	-2.60	54.0	-5.73	AV	40.00	150	Vertical	Pass
5	12296.325	53.50	1.55	74.0	-20.50	Peak	30.00	200	Vertical	Pass
5**	12296.325	43.53	1.55	54.0	-10.47	AV	30.00	200	Vertical	Pass
6	17320.124	52.78	1.34	74.0	-21.22	Peak	169.00	100	Vertical	Pass
6**	17320.124	43.83	1.34	54.0	-10.17	AV	169.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1395.400	41.01	-17.52	74.0	-32.99	Peak	191.00	400	Horizontal	Pass
1**	1395.400	29.71	-17.52	54.0	-24.29	AV	191.00	400	Horizontal	Pass
2	2418.700	100.02	-12.27	74.0	26.02	Peak	309.00	150	Horizontal	N/A
2**	2418.700	92.52	-12.27	54.0	38.52	AV	309.00	150	Horizontal	N/A
3	4917.200	50.71	-2.24	74.0	-23.29	Peak	264.00	150	Horizontal	Pass
3**	4917.200	41.74	-2.24	54.0	-12.26	AV	264.00	150	Horizontal	Pass
4	6694.600	53.83	-0.39	74.0	-20.17	Peak	197.00	300	Horizontal	Pass
4**	6694.600	43.99	-0.39	54.0	-10.01	AV	197.00	300	Horizontal	Pass
5	12565.713	53.48	1.71	74.0	-20.52	Peak	183.00	100	Horizontal	Pass
5**	12565.713	42.49	1.71	54.0	-11.51	AV	183.00	100	Horizontal	Pass
6	17189.925	53.03	2.34	74.0	-20.97	Peak	188.00	300	Horizontal	Pass
6**	17189.925	44.53	2.34	54.0	-9.47	AV	188.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1388.400	40.29	-17.44	74.0	-33.71	Peak	162.00	300	Vertical	Pass
1**	1388.400	30.63	-17.44	54.0	-23.37	AV	162.00	300	Vertical	Pass
2	2418.800	105.30	-12.27	74.0	31.30	Peak	188.00	100	Vertical	N/A
2**	2418.800	98.21	-12.27	54.0	44.21	AV	188.00	100	Vertical	N/A
3	3216.200	52.34	-7.28	74.0	-21.66	Peak	175.00	150	Vertical	Pass
3**	3216.200	50.69	-7.28	54.0	-3.31	AV	175.00	150	Vertical	N/A
4	4824.200	51.29	-3.39	74.0	-22.71	Peak	276.00	150	Vertical	Pass
4**	4824.200	46.61	-3.39	54.0	-7.39	AV	276.00	150	Vertical	Pass
5	6684.600	54.36	-0.26	74.0	-19.64	Peak	141.00	100	Vertical	Pass
5**	6684.600	45.01	-0.26	54.0	-8.99	AV	141.00	100	Vertical	Pass
6	16093.463	52.24	1.36	74.0	-21.76	Peak	0.00	150	Vertical	Pass
6**	16093.463	43.79	1.36	54.0	-10.21	AV	0.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1393.800	42.83	-17.56	74.0	-31.17	Peak	351.00	300	Horizontal	Pass
1**	1393.800	29.43	-17.56	54.0	-24.57	AV	351.00	300	Horizontal	Pass
2	2443.900	99.17	-12.78	74.0	25.17	Peak	21.00	200	Horizontal	N/A
2**	2443.900	92.28	-12.78	54.0	38.28	AV	21.00	200	Horizontal	N/A
3	4801.200	51.08	-2.58	74.0	-22.92	Peak	218.00	200	Horizontal	Pass
3**	4801.200	41.71	-2.58	54.0	-12.29	AV	218.00	200	Horizontal	Pass
4	6293.800	53.69	-0.46	74.0	-20.31	Peak	218.00	300	Horizontal	Pass
4**	6293.800	43.64	-0.46	54.0	-10.36	AV	218.00	300	Horizontal	Pass
5	12725.276	52.81	1.25	74.0	-21.19	Peak	359.00	300	Horizontal	Pass
5**	12725.276	44.16	1.25	54.0	-9.84	AV	359.00	300	Horizontal	Pass
6	17400.975	53.20	3.20	74.0	-20.80	Peak	285.00	200	Horizontal	Pass
6**	17400.975	44.45	3.20	54.0	-9.55	AV	285.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1199.900	41.66	-17.84	74.0	-32.34	Peak	55.00	300	Vertical	Pass
1**	1199.900	31.34	-17.84	54.0	-22.66	AV	55.00	300	Vertical	Pass
2	2429.700	105.05	-12.79	74.0	31.05	Peak	196.00	200	Vertical	N/A
2**	2429.700	97.78	-12.79	54.0	43.78	AV	196.00	200	Vertical	N/A
3	3249.600	52.20	-8.56	74.0	-21.80	Peak	165.00	150	Vertical	Pass
3**	3249.600	51.16	-8.56	54.0	-2.84	AV	165.00	150	Vertical	N/A
4	4874.000	50.49	-3.34	74.0	-23.51	Peak	187.00	150	Vertical	Pass
4**	4874.000	45.36	-3.34	54.0	-8.64	AV	187.00	150	Vertical	Pass
5	12730.162	53.01	1.30	74.0	-20.99	Peak	264.00	200	Vertical	Pass
5**	12730.162	43.57	1.30	54.0	-10.43	AV	264.00	200	Vertical	Pass
6	17485.238	53.70	2.50	74.0	-20.30	Peak	112.00	100	Vertical	Pass
6**	17485.238	43.52	2.50	54.0	-10.48	AV	112.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1394.000	41.47	-17.57	74.0	-32.53	Peak	192.00	200	Horizontal	Pass
1**	1394.000	29.25	-17.57	54.0	-24.75	AV	192.00	200	Horizontal	Pass
2	2466.400	99.44	-12.68	74.0	25.44	Peak	301.00	200	Horizontal	N/A
2**	2466.400	92.01	-12.68	54.0	38.01	AV	301.00	200	Horizontal	N/A
3	5049.200	51.58	-2.80	74.0	-22.42	Peak	236.00	150	Horizontal	Pass
3**	5049.200	41.97	-2.80	54.0	-12.03	AV	236.00	150	Horizontal	Pass
4	6681.200	54.45	-0.51	74.0	-19.55	Peak	311.00	300	Horizontal	Pass
4**	6681.200	44.51	-0.51	54.0	-9.49	AV	311.00	300	Horizontal	Pass
5	11209.287	53.22	-0.22	74.0	-20.78	Peak	159.00	200	Horizontal	Pass
5**	11209.287	42.21	-0.22	54.0	-11.79	AV	159.00	200	Horizontal	Pass
6	17457.150	53.71	2.84	74.0	-20.29	Peak	45.00	200	Horizontal	Pass
6**	17457.150	44.43	2.84	54.0	-9.57	AV	45.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1396.400	42.07	-17.47	74.0	-31.93	Peak	153.00	300	Vertical	Pass
1**	1396.400	28.88	-17.47	54.0	-25.12	AV	153.00	300	Vertical	Pass
2	2468.500	105.56	-12.60	74.0	31.56	Peak	192.00	200	Vertical	N/A
2**	2468.500	98.35	-12.60	54.0	44.35	AV	192.00	200	Vertical	N/A
3	3282.800	53.15	-8.13	74.0	-20.85	Peak	177.00	150	Vertical	Pass
3**	3282.800	52.01	-8.13	54.0	-1.99	AV	177.00	150	Vertical	N/A
4	6686.000	53.74	-0.20	74.0	-20.26	Peak	319.00	200	Vertical	Pass
4**	6686.000	45.54	-0.20	54.0	-8.46	AV	319.00	200	Vertical	Pass
5	12236.526	52.64	1.13	74.0	-21.36	Peak	298.00	200	Vertical	Pass
5**	12236.526	43.57	1.13	54.0	-10.43	AV	298.00	200	Vertical	Pass
6	16089.000	53.45	1.45	74.0	-20.55	Peak	0.00	100	Vertical	Pass
6**	16089.000	44.34	1.45	54.0	-9.66	AV	0.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1503.800	39.61	-17.56	74.0	-34.39	Peak	345.00	400	Horizontal	Pass
1**	1503.800	29.67	-17.56	54.0	-24.33	AV	345.00	400	Horizontal	Pass
2	2406.400	98.96	-12.31	74.0	24.96	Peak	306.00	200	Horizontal	N/A
2**	2406.400	91.33	-12.31	54.0	37.33	AV	306.00	200	Horizontal	N/A
3	4577.400	50.59	-3.81	74.0	-23.41	Peak	0.00	100	Horizontal	Pass
3**	4577.400	40.50	-3.81	54.0	-13.50	AV	0.00	100	Horizontal	Pass
4	6684.000	54.19	-0.32	74.0	-19.81	Peak	360.00	200	Horizontal	Pass
4**	6684.000	45.22	-0.32	54.0	-8.78	AV	360.00	200	Horizontal	Pass
5	10382.437	51.15	0.16	74.0	-22.85	Peak	302.00	150	Horizontal	Pass
5**	10382.437	42.51	0.16	54.0	-11.49	AV	302.00	150	Horizontal	Pass
6	13303.612	53.24	0.87	74.0	-20.76	Peak	188.00	100	Horizontal	Pass
6**	13303.612	44.43	0.87	54.0	-9.57	AV	188.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1398.000	41.48	-17.49	74.0	-32.52	Peak	295.00	200	Vertical	Pass
1**	1398.000	29.39	-17.49	54.0	-24.61	AV	295.00	200	Vertical	Pass
2	2419.300	104.37	-12.31	74.0	30.37	Peak	198.00	200	Vertical	N/A
2**	2419.300	96.51	-12.31	54.0	42.51	AV	198.00	200	Vertical	N/A
3	3216.200	52.59	-7.28	74.0	-21.41	Peak	176.00	150	Vertical	Pass
3**	3216.200	51.54	-7.28	54.0	-2.46	AV	176.00	150	Vertical	N/A
4	6596.000	53.37	-0.89	74.0	-20.63	Peak	65.00	200	Vertical	Pass
4**	6596.000	43.94	-0.89	54.0	-10.06	AV	65.00	200	Vertical	Pass
5	12297.475	53.56	1.53	74.0	-20.44	Peak	334.00	300	Vertical	Pass
5**	12297.475	43.28	1.53	54.0	-10.72	AV	334.00	300	Vertical	Pass
6	17200.425	52.93	1.87	74.0	-21.07	Peak	286.00	300	Vertical	Pass
6**	17200.425	44.36	1.87	54.0	-9.64	AV	286.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1197.000	39.89	-17.92	74.0	-34.11	Peak	195.00	300	Horizontal	Pass
1**	1197.000	29.17	-17.92	54.0	-24.83	AV	195.00	300	Horizontal	Pass
2	2443.000	98.42	-12.85	74.0	24.42	Peak	304.00	200	Horizontal	N/A
2**	2443.000	90.66	-12.85	54.0	36.66	AV	304.00	200	Horizontal	N/A
3	4916.400	50.97	-2.30	74.0	-23.03	Peak	215.00	100	Horizontal	Pass
3**	4916.400	41.96	-2.30	54.0	-12.04	AV	215.00	100	Horizontal	Pass
4	6999.400	53.89	0.24	74.0	-20.11	Peak	117.00	300	Horizontal	Pass
4**	6999.400	44.39	0.24	54.0	-9.61	AV	117.00	300	Horizontal	Pass
5	12234.225	53.14	1.18	74.0	-20.86	Peak	96.00	100	Horizontal	Pass
5**	12234.225	43.43	1.18	54.0	-10.57	AV	96.00	100	Horizontal	Pass
6	17085.449	53.00	1.44	74.0	-21.00	Peak	246.00	200	Horizontal	Pass
6**	17085.449	43.03	1.44	54.0	-10.97	AV	246.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1196.500	43.84	-17.94	74.0	-30.16	Peak	292.00	100	Vertical	Pass
1**	1196.500	30.23	-17.94	54.0	-23.77	AV	292.00	100	Vertical	Pass
2	2431.000	104.69	-12.78	74.0	30.69	Peak	196.00	100	Vertical	N/A
2**	2431.000	97.14	-12.78	54.0	43.14	AV	196.00	100	Vertical	N/A
3	3249.600	52.50	-8.56	74.0	-21.50	Peak	165.00	150	Vertical	Pass
3**	3249.600	51.31	-8.56	54.0	-2.69	AV	165.00	150	Vertical	N/A
4	6664.200	53.51	-0.85	74.0	-20.49	Peak	243.00	400	Vertical	Pass
4**	6664.200	44.14	-0.85	54.0	-9.86	AV	243.00	400	Vertical	Pass
5	11635.363	52.64	-0.22	74.0	-21.36	Peak	319.00	300	Vertical	Pass
5**	11635.363	42.63	-0.22	54.0	-11.37	AV	319.00	300	Vertical	Pass
6	17414.099	53.64	3.60	74.0	-20.36	Peak	152.00	200	Vertical	Pass
6**	17414.099	45.60	3.60	54.0	-8.40	AV	152.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1403.600	40.85	-17.44	74.0	-33.15	Peak	42.00	400	Horizontal	Pass
1**	1403.600	30.82	-17.44	54.0	-23.18	AV	42.00	400	Horizontal	Pass
2	2456.600	98.09	-12.74	74.0	24.09	Peak	304.00	100	Horizontal	N/A
2**	2456.600	90.97	-12.74	54.0	36.97	AV	304.00	100	Horizontal	N/A
3	4834.000	51.09	-3.49	74.0	-22.91	Peak	177.00	150	Horizontal	Pass
3**	4834.000	41.65	-3.49	54.0	-12.35	AV	177.00	150	Horizontal	Pass
4	6679.200	53.65	-0.54	74.0	-20.35	Peak	320.00	100	Horizontal	Pass
4**	6679.200	44.66	-0.54	54.0	-9.34	AV	320.00	100	Horizontal	Pass
5	12343.474	52.99	1.28	74.0	-21.01	Peak	338.00	100	Horizontal	Pass
5**	12343.474	43.81	1.28	54.0	-10.19	AV	338.00	100	Horizontal	Pass
6	17198.062	53.47	2.01	74.0	-20.53	Peak	53.00	300	Horizontal	Pass
6**	17198.062	45.00	2.01	54.0	-9.00	AV	53.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1194.900	39.40	-17.88	74.0	-34.60	Peak	48.00	300	Vertical	Pass
1**	1194.900	30.34	-17.88	54.0	-23.66	AV	48.00	300	Vertical	Pass
2	2467.400	104.42	-12.63	74.0	30.42	Peak	192.00	200	Vertical	N/A
2**	2467.400	97.38	-12.63	54.0	43.38	AV	192.00	200	Vertical	N/A
3	3282.800	53.22	-8.13	74.0	-20.78	Peak	176.00	150	Vertical	Pass
3**	3282.800	52.30	-8.13	54.0	-1.70	AV	176.00	150	Vertical	N/A
4	6686.400	53.80	-0.21	74.0	-20.20	Peak	132.00	200	Vertical	Pass
4**	6686.400	45.23	-0.21	54.0	-8.77	AV	132.00	200	Vertical	Pass
5	12325.075	53.69	1.42	74.0	-20.31	Peak	98.00	300	Vertical	Pass
5**	12325.075	43.91	1.42	54.0	-10.09	AV	98.00	300	Vertical	Pass
6	17366.850	53.52	2.37	74.0	-20.48	Peak	325.00	300	Vertical	Pass
6**	17366.850	44.36	2.37	54.0	-9.64	AV	325.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1395.000	40.92	-17.54	74.0	-33.08	Peak	38.00	200	Horizontal	Pass
1**	1395.000	29.23	-17.54	54.0	-24.77	AV	38.00	200	Horizontal	Pass
2	2406.600	96.15	-12.31	74.0	22.15	Peak	303.00	100	Horizontal	N/A
2**	2406.600	88.30	-12.31	54.0	34.30	AV	303.00	100	Horizontal	N/A
3	4904.200	51.46	-2.59	74.0	-22.54	Peak	333.00	150	Horizontal	Pass
3**	4904.200	41.41	-2.59	54.0	-12.59	AV	333.00	150	Horizontal	Pass
4	6683.200	53.20	-0.40	74.0	-20.80	Peak	269.00	400	Horizontal	Pass
4**	6683.200	45.20	-0.40	54.0	-8.80	AV	269.00	400	Horizontal	Pass
5	11938.388	52.65	1.69	74.0	-21.35	Peak	176.00	300	Horizontal	Pass
5**	11938.388	43.63	1.69	54.0	-10.37	AV	176.00	300	Horizontal	Pass
6	17420.136	53.90	3.75	74.0	-20.10	Peak	177.00	100	Horizontal	Pass
6**	17420.136	45.44	3.75	54.0	-8.56	AV	177.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1197.800	41.48	-17.87	74.0	-32.52	Peak	298.00	400	Vertical	Pass
1**	1197.800	29.85	-17.87	54.0	-24.15	AV	298.00	400	Vertical	Pass
2	2438.000	101.99	-12.60	74.0	27.99	Peak	196.00	150	Vertical	N/A
2**	2438.000	95.45	-12.60	54.0	41.45	AV	196.00	150	Vertical	N/A
3	3229.400	53.32	-7.27	74.0	-20.68	Peak	177.00	150	Vertical	Pass
3**	3229.400	51.33	-7.27	54.0	-2.67	AV	177.00	150	Vertical	N/A
4	5200.600	48.30	-2.61	74.0	-25.70	Peak	253.00	400	Vertical	Pass
4**	5200.600	42.83	-2.61	54.0	-11.17	AV	253.00	400	Vertical	Pass
5	12086.162	52.95	0.54	74.0	-21.05	Peak	30.00	400	Vertical	Pass
5**	12086.162	42.70	0.54	54.0	-11.30	AV	30.00	400	Vertical	Pass
6	17415.412	52.81	3.65	74.0	-21.19	Peak	0.00	200	Vertical	Pass
6**	17415.412	44.99	3.65	54.0	-9.01	AV	0.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1399.000	44.48	-17.47	74.0	-29.52	Peak	175.00	300	Horizontal	Pass
1**	1399.000	36.75	-17.47	54.0	-17.25	AV	175.00	300	Horizontal	Pass
2	2421.800	97.25	-12.52	74.0	23.25	Peak	306.00	150	Horizontal	N/A
2**	2421.800	89.33	-12.52	54.0	35.33	AV	306.00	150	Horizontal	N/A
3	4760.600	51.11	-3.34	74.0	-22.89	Peak	150.00	150	Horizontal	Pass
3**	4760.600	41.08	-3.34	54.0	-12.92	AV	150.00	150	Horizontal	Pass
4	6614.000	53.47	0.18	74.0	-20.53	Peak	102.00	300	Horizontal	Pass
4**	6614.000	44.87	0.18	54.0	-9.13	AV	102.00	300	Horizontal	Pass
5	12594.175	53.12	1.76	74.0	-20.88	Peak	220.00	200	Horizontal	Pass
5**	12594.175	43.80	1.76	54.0	-10.20	AV	220.00	200	Horizontal	Pass
6	15241.125	53.54	0.94	74.0	-20.46	Peak	247.00	300	Horizontal	Pass
6**	15241.125	44.71	0.94	54.0	-9.29	AV	247.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1197.600	40.27	-17.88	74.0	-33.73	Peak	196.00	200	Vertical	Pass
1**	1197.600	29.60	-17.88	54.0	-24.40	AV	196.00	200	Vertical	Pass
2	2421.300	102.13	-12.47	74.0	28.13	Peak	196.00	150	Vertical	N/A
2**	2421.300	94.71	-12.47	54.0	40.71	AV	196.00	150	Vertical	N/A
3	3249.400	52.90	-8.56	74.0	-21.10	Peak	175.00	150	Vertical	Pass
3**	3249.400	51.32	-8.56	54.0	-2.68	AV	175.00	150	Vertical	N/A
4	6998.600	53.73	0.23	74.0	-20.27	Peak	331.00	400	Vertical	Pass
4**	6998.600	45.31	0.23	54.0	-8.69	AV	331.00	400	Vertical	Pass
5	12218.988	52.63	1.22	74.0	-21.37	Peak	360.00	100	Vertical	Pass
5**	12218.988	43.69	1.22	54.0	-10.31	AV	360.00	100	Vertical	Pass
6	17406.751	53.24	3.36	74.0	-20.76	Peak	10.00	400	Vertical	Pass
6**	17406.751	45.11	3.36	54.0	-8.89	AV	10.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1395.200	41.77	-17.53	74.0	-32.23	Peak	149.00	200	Horizontal	Pass
1**	1395.200	30.73	-17.53	54.0	-23.27	AV	149.00	200	Horizontal	Pass
2	2467.000	95.67	-12.65	74.0	21.67	Peak	293.00	100	Horizontal	N/A
2**	2467.000	88.66	-12.65	54.0	34.66	AV	293.00	100	Horizontal	N/A
3	4647.000	49.77	-3.67	74.0	-24.23	Peak	267.00	150	Horizontal	Pass
3**	4647.000	40.18	-3.67	54.0	-13.82	AV	267.00	150	Horizontal	Pass
4	6687.000	54.42	-0.22	74.0	-19.58	Peak	122.00	100	Horizontal	Pass
4**	6687.000	44.95	-0.22	54.0	-9.05	AV	122.00	100	Horizontal	Pass
5	12546.737	52.55	1.40	74.0	-21.45	Peak	44.00	300	Horizontal	Pass
5**	12546.737	43.62	1.40	54.0	-10.38	AV	44.00	300	Horizontal	Pass
6	16387.463	53.25	1.65	74.0	-20.75	Peak	94.00	400	Horizontal	Pass
6**	16387.463	43.39	1.65	54.0	-10.61	AV	94.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1180.200	39.76	-18.02	74.0	-34.24	Peak	89.00	300	Vertical	Pass
1**	1180.200	29.19	-18.02	54.0	-24.81	AV	89.00	300	Vertical	Pass
2	2468.100	101.99	-12.61	74.0	27.99	Peak	181.00	150	Vertical	N/A
2**	2468.100	94.20	-12.61	54.0	40.20	AV	181.00	150	Vertical	N/A
3	3269.600	53.44	-8.50	74.0	-20.56	Peak	183.00	150	Vertical	Pass
3**	3269.600	52.46	-8.50	54.0	-1.54	AV	183.00	150	Vertical	N/A
4	6682.800	53.76	-0.42	74.0	-20.24	Peak	160.00	200	Vertical	Pass
4**	6682.800	45.76	-0.42	54.0	-8.24	AV	160.00	200	Vertical	Pass
5	11596.550	52.90	-0.13	74.0	-21.10	Peak	180.00	400	Vertical	Pass
5**	11596.550	43.23	-0.13	54.0	-10.77	AV	180.00	400	Vertical	Pass
6	13328.812	54.01	0.93	74.0	-19.99	Peak	35.00	100	Vertical	Pass
6**	13328.812	45.30	0.93	54.0	-8.70	AV	35.00	100	Vertical	Pass

Aux. Antenna

1 GHz to 18 GHz, ANT H 802.11b Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1003.300	40.19	-18.08	74.0	-33.81	Peak	199.00	300	Horizontal	Pass
1**	1003.300	29.66	-18.08	54.0	-24.34	AV	199.00	300	Horizontal	Pass
2	2412.000	98.47	-12.26	74.0	24.47	Peak	29.00	100	Horizontal	N/A
2**	2412.000	93.92	-12.26	54.0	39.92	AV	29.00	100	Horizontal	N/A
3	4824.200	52.09	-3.39	74.0	-21.91	Peak	26.00	100	Horizontal	Pass
3**	4824.200	46.61	-3.39	54.0	-7.39	AV	26.00	100	Horizontal	Pass
4	6602.800	55.10	-0.11	74.0	-18.90	Peak	318.00	400	Horizontal	Pass
4**	6602.800	44.81	-0.11	54.0	-9.19	AV	318.00	400	Horizontal	Pass
5	11028.163	53.16	-0.65	74.0	-20.84	Peak	203.00	200	Horizontal	Pass
5**	11028.163	42.17	-0.65	54.0	-11.83	AV	203.00	200	Horizontal	Pass
6	17415.150	54.27	3.64	74.0	-19.73	Peak	22.00	400	Horizontal	Pass
6**	17415.150	45.25	3.64	54.0	-8.75	AV	22.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1398.800	42.23	-17.48	74.0	-31.77	Peak	143.00	100	Vertical	Pass
1**	1398.800	33.97	-17.48	54.0	-20.03	AV	143.00	100	Vertical	Pass
2	2412.000	100.86	-12.26	74.0	26.86	Peak	186.00	100	Vertical	N/A
2**	2412.000	96.48	-12.26	54.0	42.48	AV	186.00	100	Vertical	N/A
3	4824.200	53.92	-3.39	74.0	-20.08	Peak	283.00	150	Vertical	Pass
3***	4824.200	50.367	-3.39	54.0	-3.633	AV	283.00	150	Vertical	Pass
4	6693.800	54.90	-0.33	74.0	-19.10	Peak	72.00	300	Vertical	Pass
4**	6693.800	44.47	-0.33	54.0	-9.53	AV	72.00	300	Vertical	Pass
5	12323.637	53.28	1.42	74.0	-20.72	Peak	64.00	300	Vertical	Pass
5**	12323.637	43.97	1.42	54.0	-10.03	AV	64.00	300	Vertical	Pass
6	13345.875	52.96	1.03	74.0	-21.04	Peak	244.00	100	Vertical	Pass
6**	13345.875	42.71	1.03	54.0	-11.29	AV	244.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1397.100	40.13	-17.48	74.0	-33.87	Peak	351.00	400	Horizontal	Pass
1**	1397.100	31.41	-17.48	54.0	-22.59	AV	351.00	400	Horizontal	Pass
2	2437.100	98.48	-12.64	74.0	24.48	Peak	30.00	150	Horizontal	N/A
2**	2437.100	94.20	-12.64	54.0	40.20	AV	30.00	150	Horizontal	N/A
3	4874.200	51.03	-3.35	74.0	-22.97	Peak	40.00	150	Horizontal	Pass
3**	4874.200	47.61	-3.35	54.0	-6.39	AV	40.00	150	Horizontal	Pass
4	6686.200	53.95	-0.20	74.0	-20.05	Peak	160.00	200	Horizontal	Pass
4**	6686.200	44.67	-0.20	54.0	-9.33	AV	160.00	200	Horizontal	Pass
5	12230.776	52.86	1.28	74.0	-21.14	Peak	79.00	400	Horizontal	Pass
5**	12230.776	44.13	1.28	54.0	-9.87	AV	79.00	400	Horizontal	Pass
6	17421.713	52.82	3.71	74.0	-21.18	Peak	345.00	300	Horizontal	Pass
6**	17421.713	45.18	3.71	54.0	-8.82	AV	345.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1366.400	40.31	-17.41	74.0	-33.69	Peak	282.00	100	Vertical	Pass
1**	1366.400	28.77	-17.41	54.0	-25.23	AV	282.00	100	Vertical	Pass
2	2437.000	102.24	-12.65	74.0	28.24	Peak	201.00	200	Vertical	N/A
2**	2437.000	97.22	-12.65	54.0	43.22	AV	201.00	200	Vertical	N/A
3	4874.200	53.76	-3.35	74.0	-20.24	Peak	275.00	150	Vertical	Pass
3**	4874.200	50.83	-3.35	54.0	-3.17	AV	275.00	150	Vertical	Pass
4	6687.600	54.69	-0.24	74.0	-19.31	Peak	296.00	400	Vertical	Pass
4**	6687.600	45.15	-0.24	54.0	-8.85	AV	296.00	400	Vertical	Pass
5	12717.513	53.31	1.10	74.0	-20.69	Peak	60.00	400	Vertical	Pass
5**	12717.513	42.94	1.10	54.0	-11.06	AV	60.00	400	Vertical	Pass
6	17415.150	54.91	3.64	74.0	-19.09	Peak	92.00	400	Vertical	Pass
6**	17415.150	46.08	3.64	54.0	-7.92	AV	92.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1593.400	39.79	-17.47	74.0	-34.21	Peak	154.00	400	Horizontal	Pass
1**	1593.400	30.91	-17.47	54.0	-23.09	AV	154.00	400	Horizontal	Pass
2	2462.100	99.66	-12.77	74.0	25.66	Peak	28.00	200	Horizontal	N/A
2**	2462.100	95.43	-12.77	54.0	41.43	AV	28.00	200	Horizontal	N/A
3	4924.400	50.97	-2.62	74.0	-23.03	Peak	56.00	150	Horizontal	Pass
3**	4924.400	48.34	-2.62	54.0	-5.66	AV	56.00	150	Horizontal	Pass
4	6674.200	54.14	-0.69	74.0	-19.86	Peak	299.00	400	Horizontal	Pass
4**	6674.200	44.36	-0.69	54.0	-9.64	AV	299.00	400	Horizontal	Pass
5	12591.588	53.71	1.70	74.0	-20.29	Peak	231.00	100	Horizontal	Pass
5**	12591.588	43.17	1.70	54.0	-10.83	AV	231.00	100	Horizontal	Pass
6	17417.511	53.79	3.70	74.0	-20.21	Peak	360.00	100	Horizontal	Pass
6**	17417.511	46.13	3.70	54.0	-7.87	AV	360.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1396.400	41.83	-17.47	74.0	-32.17	Peak	151.00	200	Vertical	Pass
1**	1396.400	29.16	-17.47	54.0	-24.84	AV	151.00	200	Vertical	Pass
2	2463.400	103.07	-12.79	74.0	29.07	Peak	200.00	100	Vertical	N/A
2**	2463.400	99.91	-12.79	54.0	45.91	AV	200.00	100	Vertical	N/A
3	4924.200	54.91	-2.60	74.0	-19.09	Peak	7.00	150	Vertical	Pass
3**	4924.200	50.178	-2.60	54.0	-3.822	AV	7.00	150	Vertical	Pass
4	6691.000	53.75	-0.29	74.0	-20.25	Peak	116.00	200	Vertical	Pass
4**	6691.000	44.56	-0.29	54.0	-9.44	AV	116.00	200	Vertical	Pass
5	12289.713	53.36	1.67	74.0	-20.64	Peak	162.00	100	Vertical	Pass
5**	12289.713	42.98	1.67	54.0	-11.02	AV	162.00	100	Vertical	Pass
6	17416.989	53.26	3.69	74.0	-20.74	Peak	229.00	400	Vertical	Pass
6**	17416.989	45.06	3.69	54.0	-8.94	AV	229.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1197.200	41.71	-17.91	74.0	-32.29	Peak	179.00	100	Horizontal	Pass
1**	1197.200	31.82	-17.91	54.0	-22.18	AV	179.00	100	Horizontal	Pass
2	2418.700	99.84	-12.27	74.0	25.84	Peak	27.00	200	Horizontal	N/A
2**	2418.700	93.22	-12.27	54.0	39.22	AV	27.00	200	Horizontal	N/A
3	4989.000	50.73	-2.89	74.0	-23.27	Peak	255.00	150	Horizontal	Pass
3**	4989.000	41.55	-2.89	54.0	-12.45	AV	255.00	150	Horizontal	Pass
4	6972.200	53.64	0.78	74.0	-20.36	Peak	52.00	300	Horizontal	Pass
4**	6972.200	43.59	0.78	54.0	-10.41	AV	52.00	300	Horizontal	Pass
5	12611.713	53.07	1.89	74.0	-20.93	Peak	235.00	300	Horizontal	Pass
5**	12611.713	43.13	1.89	54.0	-10.87	AV	235.00	300	Horizontal	Pass
6	17411.475	53.19	3.50	74.0	-20.81	Peak	247.00	200	Horizontal	Pass
6**	17411.475	44.79	3.50	54.0	-9.21	AV	247.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1399.500	42.58	-17.45	74.0	-31.42	Peak	298.00	300	Vertical	Pass
1**	1399.500	31.04	-17.45	54.0	-22.96	AV	298.00	300	Vertical	Pass
2	2406.400	102.25	-12.31	74.0	28.25	Peak	209.00	150	Vertical	N/A
2**	2406.400	94.49	-12.31	54.0	40.49	AV	209.00	150	Vertical	N/A
3	4824.000	51.91	-3.38	74.0	-22.09	Peak	0.00	200	Vertical	Pass
3**	4824.000	44.47	-3.38	54.0	-9.53	AV	0.00	200	Vertical	Pass
4	6678.600	53.45	-0.55	74.0	-20.55	Peak	34.00	100	Vertical	Pass
4**	6678.600	45.38	-0.55	54.0	-8.62	AV	34.00	100	Vertical	Pass
5	12264.125	53.48	1.25	74.0	-20.52	Peak	153.00	150	Vertical	Pass
5**	12264.125	43.15	1.25	54.0	-10.85	AV	153.00	150	Vertical	Pass
6	13435.650	53.26	0.42	74.0	-20.74	Peak	324.00	200	Vertical	Pass
6**	13435.650	44.37	0.42	54.0	-9.63	AV	324.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1399.000	40.40	-17.47	74.0	-33.60	Peak	127.00	300	Horizontal	Pass
1**	1399.000	31.81	-17.47	54.0	-22.19	AV	127.00	300	Horizontal	Pass
2	2442.200	99.87	-12.90	74.0	25.87	Peak	34.00	100	Horizontal	N/A
2**	2442.200	92.67	-12.90	54.0	38.67	AV	34.00	100	Horizontal	N/A
3	4811.600	51.64	-3.02	74.0	-22.36	Peak	353.00	150	Horizontal	Pass
3**	4811.600	41.19	-3.02	54.0	-12.81	AV	353.00	150	Horizontal	Pass
4	6677.200	53.97	-0.58	74.0	-20.03	Peak	49.00	300	Horizontal	Pass
4**	6677.200	45.80	-0.58	54.0	-8.20	AV	49.00	300	Horizontal	Pass
5	12247.451	52.89	0.98	74.0	-21.11	Peak	286.00	200	Horizontal	Pass
5**	12247.451	43.82	0.98	54.0	-10.18	AV	286.00	200	Horizontal	Pass
6	17211.974	54.76	1.45	74.0	-19.24	Peak	285.00	300	Horizontal	Pass
6**	17211.974	45.83	1.45	54.0	-8.17	AV	285.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1200.600	41.87	-17.86	74.0	-32.13	Peak	274.00	100	Vertical	Pass
1**	1200.600	30.56	-17.86	54.0	-23.44	AV	274.00	100	Vertical	Pass
2	2442.900	103.94	-12.85	74.0	29.94	Peak	212.00	100	Vertical	N/A
2**	2442.900	96.45	-12.85	54.0	42.45	AV	212.00	100	Vertical	N/A
3	4880.200	51.26	-3.44	74.0	-22.74	Peak	298.00	200	Vertical	Pass
3**	4880.200	42.45	-3.44	54.0	-11.55	AV	298.00	200	Vertical	Pass
4	6686.400	53.92	-0.21	74.0	-20.08	Peak	342.00	200	Vertical	Pass
4**	6686.400	45.20	-0.21	54.0	-8.80	AV	342.00	200	Vertical	Pass
5	12100.537	52.93	0.57	74.0	-21.07	Peak	167.00	400	Vertical	Pass
5**	12100.537	42.68	0.57	54.0	-11.32	AV	167.00	400	Vertical	Pass
6	17419.614	52.97	3.75	74.0	-21.03	Peak	132.00	300	Vertical	Pass
6**	17419.614	45.23	3.75	54.0	-8.77	AV	132.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1394.500	41.72	-17.57	74.0	-32.28	Peak	167.00	400	Horizontal	Pass
1**	1394.500	29.29	-17.57	54.0	-24.71	AV	167.00	400	Horizontal	Pass
2	2455.800	100.55	-12.70	74.0	26.55	Peak	35.00	200	Horizontal	N/A
2**	2455.800	93.19	-12.70	54.0	39.19	AV	35.00	200	Horizontal	N/A
3	4776.000	50.10	-3.01	74.0	-23.90	Peak	11.00	150	Horizontal	Pass
3**	4776.000	41.79	-3.01	54.0	-12.21	AV	11.00	150	Horizontal	Pass
4	6606.600	53.78	0.16	74.0	-20.22	Peak	0.00	400	Horizontal	Pass
4**	6606.600	45.24	0.16	54.0	-8.76	AV	0.00	400	Horizontal	Pass
5	12232.500	52.77	1.23	74.0	-21.23	Peak	270.00	400	Horizontal	Pass
5**	12232.500	42.90	1.23	54.0	-11.10	AV	270.00	400	Horizontal	Pass
6	17433.000	53.07	3.34	74.0	-20.93	Peak	93.00	300	Horizontal	Pass
6**	17433.000	44.10	3.34	54.0	-9.90	AV	93.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1196.000	40.96	-17.92	74.0	-33.04	Peak	297.00	200	Vertical	Pass
1**	1196.000	29.38	-17.92	54.0	-24.62	AV	297.00	200	Vertical	Pass
2	2456.700	104.47	-12.74	74.0	30.47	Peak	211.00	200	Vertical	N/A
2**	2456.700	96.11	-12.74	54.0	42.11	AV	211.00	200	Vertical	N/A
3	4920.400	53.31	-2.48	74.0	-20.69	Peak	256.00	150	Vertical	Pass
3**	4920.400	43.33	-2.48	54.0	-10.67	AV	256.00	150	Vertical	Pass
4	6603.600	53.57	-0.05	74.0	-20.43	Peak	125.00	100	Vertical	Pass
4**	6603.600	44.65	-0.05	54.0	-9.35	AV	125.00	100	Vertical	Pass
5	12221.000	53.13	1.24	74.0	-20.87	Peak	351.00	400	Vertical	Pass
5**	12221.000	43.57	1.24	54.0	-10.43	AV	351.00	400	Vertical	Pass
6	17386.801	53.21	2.79	74.0	-20.79	Peak	268.00	200	Vertical	Pass
6**	17386.801	46.10	2.79	54.0	-7.90	AV	268.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1198.100	40.60	-17.85	74.0	-33.40	Peak	168.00	300	Horizontal	Pass
1**	1198.100	29.84	-17.85	54.0	-24.16	AV	168.00	300	Horizontal	Pass
2	2418.600	99.11	-12.26	74.0	25.11	Peak	36.00	150	Horizontal	N/A
2**	2418.600	91.61	-12.26	54.0	37.61	AV	36.00	150	Horizontal	N/A
3	4914.400	50.74	-2.31	74.0	-23.26	Peak	137.00	100	Horizontal	Pass
3**	4914.400	42.02	-2.31	54.0	-11.98	AV	137.00	100	Horizontal	Pass
4	6760.000	53.55	-1.05	74.0	-20.45	Peak	231.00	100	Horizontal	Pass
4**	6760.000	43.51	-1.05	54.0	-10.49	AV	231.00	100	Horizontal	Pass
5	12202.599	54.00	0.75	74.0	-20.00	Peak	198.00	100	Horizontal	Pass
5**	12202.599	42.95	0.75	54.0	-11.05	AV	198.00	100	Horizontal	Pass
6	17198.850	53.21	1.96	74.0	-20.79	Peak	268.00	200	Horizontal	Pass
6**	17198.850	44.27	1.96	54.0	-9.73	AV	268.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1403.700	40.05	-17.44	74.0	-33.95	Peak	147.00	100	Vertical	Pass
1**	1403.700	29.95	-17.44	54.0	-24.05	AV	147.00	100	Vertical	Pass
2	2418.100	101.07	-12.25	74.0	27.07	Peak	185.00	150	Vertical	N/A
2**	2418.100	93.29	-12.25	54.0	39.29	AV	185.00	150	Vertical	N/A
3	4824.600	52.57	-3.41	74.0	-21.43	Peak	276.00	200	Vertical	Pass
3**	4824.600	44.01	-3.41	54.0	-9.99	AV	276.00	200	Vertical	Pass
4	6626.200	53.81	-0.24	74.0	-20.19	Peak	360.00	100	Vertical	Pass
4**	6626.200	44.19	-0.24	54.0	-9.81	AV	360.00	100	Vertical	Pass
5	12258.662	53.12	1.05	74.0	-20.88	Peak	0.00	400	Vertical	Pass
5**	12258.662	43.13	1.05	54.0	-10.87	AV	0.00	400	Vertical	Pass
6	17411.475	53.02	3.50	74.0	-20.98	Peak	360.00	400	Vertical	Pass
6**	17411.475	44.74	3.50	54.0	-9.26	AV	360.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1395.700	40.90	-17.50	74.0	-33.10	Peak	357.00	300	Horizontal	Pass
1**	1395.700	29.23	-17.50	54.0	-24.77	AV	357.00	300	Horizontal	Pass
2	2443.500	98.43	-12.81	74.0	24.43	Peak	36.00	100	Horizontal	N/A
2**	2443.500	90.95	-12.81	54.0	36.95	AV	36.00	100	Horizontal	N/A
3	4914.000	50.64	-2.28	74.0	-23.36	Peak	88.00	150	Horizontal	Pass
3**	4914.000	42.32	-2.28	54.0	-11.68	AV	88.00	150	Horizontal	Pass
4	6680.800	53.72	-0.52	74.0	-20.28	Peak	270.00	400	Horizontal	Pass
4**	6680.800	45.40	-0.52	54.0	-8.60	AV	270.00	400	Horizontal	Pass
5	12211.800	53.01	1.08	74.0	-20.99	Peak	360.00	100	Horizontal	Pass
5**	12211.800	43.94	1.08	54.0	-10.06	AV	360.00	100	Horizontal	Pass
6	17410.163	52.95	3.45	74.0	-21.05	Peak	261.00	200	Horizontal	Pass
6**	17410.163	45.42	3.45	54.0	-8.58	AV	261.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1593.200	39.54	-17.47	74.0	-34.46	Peak	225.00	100	Vertical	Pass
1**	1593.200	28.97	-17.47	54.0	-25.03	AV	225.00	100	Vertical	Pass
2	2442.900	102.42	-12.85	74.0	28.42	Peak	212.00	100	Vertical	N/A
2**	2442.900	95.30	-12.85	54.0	41.30	AV	212.00	100	Vertical	N/A
3	4903.400	50.97	-2.64	74.0	-23.03	Peak	217.00	200	Vertical	Pass
3**	4903.400	41.38	-2.64	54.0	-12.62	AV	217.00	200	Vertical	Pass
4	6691.800	54.26	-0.30	74.0	-19.74	Peak	28.00	300	Vertical	Pass
4**	6691.800	44.57	-0.30	54.0	-9.43	AV	28.00	300	Vertical	Pass
5	12745.113	53.09	1.24	74.0	-20.91	Peak	360.00	400	Vertical	Pass
5**	12745.113	43.70	1.24	54.0	-10.30	AV	360.00	400	Vertical	Pass
6	17415.150	53.34	3.64	74.0	-20.66	Peak	247.00	100	Vertical	Pass
6**	17415.150	45.54	3.64	54.0	-8.46	AV	247.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1397.300	41.04	-17.48	74.0	-32.96	Peak	167.00	400	Horizontal	Pass
1**	1397.300	29.17	-17.48	54.0	-24.83	AV	167.00	400	Horizontal	Pass
2	2456.200	100.03	-12.72	74.0	26.03	Peak	34.00	150	Horizontal	N/A
2**	2456.200	92.47	-12.72	54.0	38.47	AV	34.00	150	Horizontal	N/A
3	4922.600	51.01	-2.55	74.0	-22.99	Peak	242.00	150	Horizontal	Pass
3**	4922.600	42.67	-2.55	54.0	-11.33	AV	242.00	150	Horizontal	Pass
4	6685.000	53.79	-0.21	74.0	-20.21	Peak	242.00	400	Horizontal	Pass
4**	6685.000	45.56	-0.21	54.0	-8.44	AV	242.00	400	Horizontal	Pass
5	12746.550	53.00	1.20	74.0	-21.00	Peak	30.00	300	Horizontal	Pass
5**	12746.550	43.77	1.20	54.0	-10.23	AV	30.00	300	Horizontal	Pass
6	16082.175	53.13	1.59	74.0	-20.87	Peak	32.00	300	Horizontal	Pass
6**	16082.175	45.00	1.59	54.0	-9.00	AV	32.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1390.400	40.24	-17.49	74.0	-33.76	Peak	233.00	400	Vertical	Pass
1**	1390.400	28.99	-17.49	54.0	-25.01	AV	233.00	400	Vertical	Pass
2	2467.500	103.71	-12.63	74.0	29.71	Peak	213.00	200	Vertical	N/A
2**	2467.500	96.39	-12.63	54.0	42.39	AV	213.00	200	Vertical	N/A
3	4919.200	52.23	-2.41	74.0	-21.77	Peak	298.00	150	Vertical	Pass
3**	4919.200	42.98	-2.41	54.0	-11.02	AV	298.00	150	Vertical	Pass
4	6676.600	54.07	-0.59	74.0	-19.93	Peak	78.00	100	Vertical	Pass
4**	6676.600	44.44	-0.59	54.0	-9.56	AV	78.00	100	Vertical	Pass
5	12306.388	52.59	1.38	74.0	-21.41	Peak	219.00	200	Vertical	Pass
5**	12306.388	43.06	1.38	54.0	-10.94	AV	219.00	200	Vertical	Pass
6	15241.650	52.79	0.93	74.0	-21.21	Peak	284.00	200	Vertical	Pass
6**	15241.650	45.56	0.93	54.0	-8.44	AV	284.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1394.900	43.12	-17.55	74.0	-30.88	Peak	194.00	400	Horizontal	Pass
1**	1394.900	34.87	-17.55	54.0	-19.13	AV	194.00	400	Horizontal	Pass
2	2420.600	95.67	-12.39	74.0	21.67	Peak	28.00	100	Horizontal	N/A
2**	2420.600	88.61	-12.39	54.0	34.61	AV	28.00	100	Horizontal	N/A
3	4898.200	50.78	-2.93	74.0	-23.22	Peak	0.00	150	Horizontal	Pass
3**	4898.200	41.39	-2.93	54.0	-12.61	AV	0.00	150	Horizontal	Pass
4	6608.600	54.19	0.14	74.0	-19.81	Peak	105.00	400	Horizontal	Pass
4**	6608.600	44.35	0.14	54.0	-9.65	AV	105.00	400	Horizontal	Pass
5	12594.175	53.24	1.76	74.0	-20.76	Peak	118.00	400	Horizontal	Pass
5**	12594.175	43.21	1.76	54.0	-10.79	AV	118.00	400	Horizontal	Pass
6	17184.938	53.91	2.53	74.0	-20.09	Peak	247.00	300	Horizontal	Pass
6**	17184.938	45.25	2.53	54.0	-8.75	AV	247.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1412.800	39.90	-17.52	74.0	-34.10	Peak	156.00	300	Vertical	Pass
1**	1412.800	29.31	-17.52	54.0	-24.69	AV	156.00	300	Vertical	Pass
2	2438.000	99.39	-12.60	74.0	25.39	Peak	212.00	100	Vertical	N/A
2**	2438.000	92.07	-12.60	54.0	38.07	AV	212.00	100	Vertical	N/A
3	4935.400	50.86	-2.94	74.0	-23.14	Peak	62.00	150	Vertical	Pass
3**	4935.400	42.51	-2.94	54.0	-11.49	AV	62.00	150	Vertical	Pass
4	6606.600	53.73	0.16	74.0	-20.27	Peak	186.00	100	Vertical	Pass
4**	6606.600	45.51	0.16	54.0	-8.49	AV	186.00	100	Vertical	Pass
5	12619.763	53.18	1.80	74.0	-20.82	Peak	116.00	100	Vertical	Pass
5**	12619.763	43.49	1.80	54.0	-10.51	AV	116.00	100	Vertical	Pass
6	17412.786	53.56	3.55	74.0	-20.44	Peak	0.00	400	Vertical	Pass
6**	17412.786	45.61	3.55	54.0	-8.39	AV	0.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.600	42.18	-17.62	74.0	-31.82	Peak	206.00	100	Horizontal	Pass
1**	1599.600	31.65	-17.62	54.0	-22.35	AV	206.00	100	Horizontal	Pass
2	2421.500	96.94	-12.49	74.0	22.94	Peak	33.00	100	Horizontal	N/A
2**	2421.500	89.14	-12.49	54.0	35.14	AV	33.00	100	Horizontal	N/A
3	5045.600	51.51	-2.85	74.0	-22.49	Peak	66.00	150	Horizontal	Pass
3**	5045.600	41.57	-2.85	54.0	-12.43	AV	66.00	150	Horizontal	Pass
4	6686.400	54.02	-0.21	74.0	-19.98	Peak	87.00	100	Horizontal	Pass
4**	6686.400	45.15	-0.21	54.0	-8.85	AV	87.00	100	Horizontal	Pass
5	12709.463	53.13	0.97	74.0	-20.87	Peak	304.00	100	Horizontal	Pass
5**	12709.463	42.86	0.97	54.0	-11.14	AV	304.00	100	Horizontal	Pass
6	17127.450	53.27	2.25	74.0	-20.73	Peak	343.00	300	Horizontal	Pass
6**	17127.450	44.43	2.25	54.0	-9.57	AV	343.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1355.200	39.39	-17.38	74.0	-34.61	Peak	277.00	400	Vertical	Pass
1**	1355.200	30.09	-17.38	54.0	-23.91	AV	277.00	400	Vertical	Pass
2	2449.900	99.72	-12.55	74.0	25.72	Peak	208.00	100	Vertical	N/A
2**	2449.900	92.53	-12.55	54.0	38.53	AV	208.00	100	Vertical	N/A
3	4825.400	51.33	-3.45	74.0	-22.67	Peak	39.00	150	Vertical	Pass
3**	4825.400	41.93	-3.45	54.0	-12.07	AV	39.00	150	Vertical	Pass
4	6679.800	54.30	-0.53	74.0	-19.70	Peak	284.00	300	Vertical	Pass
4**	6679.800	45.13	-0.53	54.0	-8.87	AV	284.00	300	Vertical	Pass
5	12217.263	52.90	1.20	74.0	-21.10	Peak	354.00	100	Vertical	Pass
5**	12217.263	43.57	1.20	54.0	-10.43	AV	354.00	100	Vertical	Pass
6	17405.962	53.11	3.34	74.0	-20.89	Peak	284.00	400	Vertical	Pass
6**	17405.962	45.32	3.34	54.0	-8.68	AV	284.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1394.200	43.14	-17.58	74.0	-30.86	Peak	349.00	400	Horizontal	Pass
1**	1394.200	30.11	-17.58	54.0	-23.89	AV	349.00	400	Horizontal	Pass
2	2454.700	96.31	-12.65	74.0	22.31	Peak	34.00	100	Horizontal	N/A
2**	2454.700	88.63	-12.65	54.0	34.63	AV	34.00	100	Horizontal	N/A
3	4913.800	50.77	-2.26	74.0	-23.23	Peak	342.00	150	Horizontal	Pass
3**	4913.800	41.65	-2.26	54.0	-12.35	AV	342.00	150	Horizontal	Pass
4	6677.200	53.64	-0.58	74.0	-20.36	Peak	285.00	400	Horizontal	Pass
4**	6677.200	45.02	-0.58	54.0	-8.98	AV	285.00	400	Horizontal	Pass
5	12290.000	53.50	1.66	74.0	-20.50	Peak	84.00	100	Horizontal	Pass
5**	12290.000	44.04	1.66	54.0	-9.96	AV	84.00	100	Horizontal	Pass
6	17284.950	53.44	1.69	74.0	-20.56	Peak	123.00	200	Horizontal	Pass
6**	17284.950	44.84	1.69	54.0	-9.16	AV	123.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1182.600	40.05	-18.01	74.0	-33.95	Peak	144.00	200	Vertical	Pass
1**	1182.600	31.19	-18.01	54.0	-22.81	AV	144.00	200	Vertical	Pass
2	2467.700	100.74	-12.62	74.0	26.74	Peak	207.00	100	Vertical	N/A
2**	2467.700	92.59	-12.62	54.0	38.59	AV	207.00	100	Vertical	N/A
3	4912.400	51.28	-2.30	74.0	-22.72	Peak	341.00	150	Vertical	Pass
3**	4912.400	41.82	-2.30	54.0	-12.18	AV	341.00	150	Vertical	Pass
4	6691.800	53.67	-0.30	74.0	-20.33	Peak	273.00	400	Vertical	Pass
4**	6691.800	44.42	-0.30	54.0	-9.58	AV	273.00	400	Vertical	Pass
5	12220.137	52.78	1.23	74.0	-21.22	Peak	360.00	200	Vertical	Pass
5**	12220.137	44.06	1.23	54.0	-9.94	AV	360.00	200	Vertical	Pass
6	17409.901	53.13	3.44	74.0	-20.87	Peak	360.00	400	Vertical	Pass
6**	17409.901	44.67	3.44	54.0	-9.33	AV	360.00	400	Vertical	Pass

MIMO**1 GHz to 18 GHz, ANT H 802.11n20 Low Channel**

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1200.000	42.90	-17.84	74.0	-31.10	Peak	148.00	300	Horizontal	Pass
1**	1200.000	30.73	-17.84	54.0	-23.27	AV	148.00	300	Horizontal	Pass
2	2418.200	94.23	-12.25	74.0	20.23	Peak	275.00	100	Horizontal	N/A
2**	2418.200	86.15	-12.25	54.0	32.15	AV	275.00	100	Horizontal	N/A
3	4802.800	50.72	-2.64	74.0	-23.28	Peak	108.00	150	Horizontal	Pass
3**	4802.800	42.29	-2.64	54.0	-11.71	AV	108.00	150	Horizontal	Pass
4	6271.600	53.40	-0.28	74.0	-20.60	Peak	177.00	200	Horizontal	Pass
4**	6271.600	44.60	-0.28	54.0	-9.40	AV	177.00	200	Horizontal	Pass
5	12206.625	52.52	0.87	74.0	-21.48	Peak	128.00	100	Horizontal	Pass
5**	12206.625	42.88	0.87	54.0	-11.12	AV	128.00	100	Horizontal	Pass
6	15834.637	53.56	1.45	74.0	-20.44	Peak	131.00	400	Horizontal	Pass
6**	15834.637	44.75	1.45	54.0	-9.25	AV	131.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1396.300	42.94	-17.47	74.0	-31.06	Peak	147.00	400	Vertical	Pass
1**	1396.300	29.18	-17.47	54.0	-24.82	AV	147.00	400	Vertical	Pass
2	2418.900	103.62	-12.28	74.0	29.62	Peak	263.00	150	Vertical	N/A
2**	2418.900	96.44	-12.28	54.0	42.44	AV	263.00	150	Vertical	N/A
3	3216.200	53.78	-7.28	74.0	-20.22	Peak	18.00	150	Vertical	Pass
3**	3216.200	52.18	-7.28	54.0	-1.82	AV	18.00	150	Vertical	N/A
4	6686.600	53.81	-0.21	74.0	-20.19	Peak	133.00	400	Vertical	Pass
4**	6686.600	45.62	-0.21	54.0	-8.38	AV	133.00	400	Vertical	Pass
5	12454.162	53.20	1.88	74.0	-20.80	Peak	0.00	300	Vertical	Pass
5**	12454.162	44.04	1.88	54.0	-9.96	AV	0.00	300	Vertical	Pass
6	13305.187	53.31	0.87	74.0	-20.69	Peak	328.00	300	Vertical	Pass
6**	13305.187	44.99	0.87	54.0	-9.01	AV	328.00	300	Vertical	Pass