

TEST REPORT

Applicant: vivo Mobile Communication Co., Ltd.
Address: No.1, vivo Road, Chang'an, Dongguan,
Guangdong, China
Equipment Type: Mobile Phone
Model Name: V2430
Brand Name: vivo
FCC ID: 2AUCY-V2430
Test Standard: 47 CFR Part 15 Subpart C
(refer to section 3.1)
Sample Arrival Date: Dec. 26, 2024
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ISSUED BY:

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Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Jan. 17, 2025</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☒ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	vivo Mobile Communication Co., Ltd.
Address	No.1, vivo Road, Chang'an, Dongguan, Guangdong, China

2.2 Manufacturer Information

Manufacturer	vivo Mobile Communication Co., Ltd.
Address	No.1, vivo Road, Chang'an, Dongguan, Guangdong, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	V2430
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	MP_0.1
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A
EUT ID	S07, S08
IMEI Number	S07: IMEI1: 860134072001882; IMEI2: 860134072001890
	S08: IMEI1: 860134072002146; IMEI2: 860134072002153

2.4 Technical Information

Network and Wireless connectivity	802.11b, 802.11g, 802.11n(HT20/40), VHT20/40
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The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	802.11b/g/n (20 MHz)/ VHT20: 2.412 GHz - 2.462 GHz $f_c = 2412 \text{ MHz} + (N-1)*5 \text{ MHz}$, where - f_c = "Operating Frequency" in MHz, - N = "Channel Number" with the range from 1 to 11. 802.11n (40 MHz)/ VHT40: 2.422 GHz - 2.452 GHz $f_c = 2412 \text{ MHz} + (N-1)*5 \text{ MHz}$, where - f_c = "Operating Frequency" in MHz, - N = "Channel Number" with the range from 3 to 9.
Modulation Type	DSSS, OFDM
Product Type	☐ Mobile ☒ Portable ☐ Fix Location
Antenna System (eg., MIMO, Smart Antenna)	N/A
Categorization as Correlated or Completely Uncorrelated	N/A
Antenna Type	PIFA Antenna
Antenna Gain	0.81 dBi
About the Product	Only the WIFI 802.11b, 802.11g, 802.11n (HT20/40) and VHT20/40 was tested in this report.

Modulation technology	Modulation Type	Transfer Rate (Mbps)(Single RF path)
DSSS (802.11b)	DBPSK	1
	DQPSK	2
	CCK	5.5/11
OFDM (802.11g)	BPSK	6/9
	QPSK	12/18
	16QAM	24/36
	64QAM	48/54
OFDM (802.11n-20/ VHT20 MHz)	BPSK	6.5/7.2
	QPSK	13/19.5/14.4/21.7
	16QAM	26/39/28.9/43.3
	64QAM	52/58.5/65/57.8/65/72.2
OFDM (802.11n-40/ VHT40 MHz)	BPSK	13.5/15
	QPSK	27/40.5/30/45
	16QAM	54/81/60/90
	64QAM	108/121.5/135/120/150

Note: Preliminary tests were performed in different data rate in above table to find the worst radiated

emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel	
Output Power	11b/11g/11n20/11n40/ VHT20/40	1/6/6.5/13.5/6.5/ 13.5 Mbps	1/6/11	3/6/9
Occupied Bandwidth	11b/11g/11n20/11n40/ VHT20/40	1/6/6.5/13.5/6.5/ 13.5 Mbps	1/6/11	3/6/9
Conducted Spurious Emission	11b/11g/11n20/11n40/ VHT20/40	1/6/6.5/13.5/6.5/ 13.5 Mbps	1/6/11	3/6/9
Conducted Emission	11b/11g/11n20/11n40/ VHT20/40	1/6/6.5/13.5/6.5/ 13.5 Mbps	1/6/11	3/6/9
Radiated Spurious Emission	11b/11g/11n20/11n40/ VHT20/40	1/6/6.5/13.5/6.5/ 13.5 Mbps	1/6/11	3/6/9
Band Edge	11b/11g/11n20/11n40/ VHT20/40	1/6/6.5/13.5/6.5/ 13.5 Mbps	1/6/11	3/6/9
Power spectral density (PSD)	11b/11g/11n20/11n40/ VHT20/40	1/6/6.5/13.5/6.5/ 13.5 Mbps	1/6/11	3/6/9

Note: The above EUT information in section 2.4 was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C	Intentional radiators of radio frequency equipment
2	ANSI C63.10-2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
3	KDB Publication 558074 D01v05r02	GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES

3.2 Test Verdict

No.	Description	FCC PART No.	Test Result	Verdict
1	Antenna Requirement	15.203	N/A	Pass ^{Note 1}
2	Output Power	15.247 (b)	ANNEX A.1	Pass
3	Occupied Bandwidth	15.247 (a)	ANNEX A.2	Pass
4	Conducted Spurious Emission	15.247 (d)	ANNEX A.3	Pass
5	Band Edge(Authorized-band band-edge)	15.247 (d)	ANNEX A.4	Pass
6	Conducted Emission	15.207	ANNEX A.5	Pass
7	Radiated Spurious Emission	15.209; 15.247 (d)	ANNEX A.6	Pass
8	Band Edge(Restricted-band band-edge)	15.209; 15.247 (d)	ANNEX A.7	Pass
9	Power spectral density (PSD)	15.247 (e)	ANNEX A.8	Pass

Note 1: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	46% to 69%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+20.8℃ to +25.1℃
Working Voltage of the EUT	NV (Normal Voltage)	3.85V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY56060183	2024.08.01	2025.07.31
Power Sensor	KEYSIGHT	U2063XA	MY58000251	2024.07.04	2025.07.03
Spectrum Analyzer	KEYSIGHT	N9020A	MY52510065	2024.08.01	2025.07.31
Signaling Unit	ROHDE&SCHWARZ	CMW500	171150	2024.05.22	2025.05.21
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	01631	2022.02.23	2025.02.22
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Anechoic Chamber	RAINFORD	9m*6m*6m	144	2022.02.19	2025.09.03
Amplifier	COM-MV	LSCX_LNA1-12G-01	180602	2024.08.01	2025.07.31
Amplifier	COM-MV	XKu_LNA7-18G-01	180601	2024.08.01	2025.07.31
Amplifier	COM-MV	KA LNA18 40G-01	18050001	2024.12.05	2025.12.04
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2024.08.01	2025.07.31
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.01.23	2025.01.22
Amplifier	COM-MV	ZT30-1000M	B2018054558	2024.11.28	2025.11.27
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	130	2024.07.13	2027.07.12
EMI Receiver	Agilent	N9038A	MY55330120	2024.08.01	2025.07.31
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-00867	2022.04.12	2025.04.11
Amplifier	COM-MV	ZT30-1000M	B2017119081	2024.11.28	2025.11.27
Anechoic Chamber	YiHeng	9m*6m*6m	142	2024.07.21	2027.07.20
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2024.08.01	2025.07.31
LISN	SCHWARZBECK	NSLK 8127	8127-687	2024.05.09	2025.05.08
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8m	112	2022.02.19	2025.02.18

4.3 Test Software List

Description	Manufacturer	Software Version	Serial No.	Applicable test Setup
BL410R	BALUN	V2.1.1.488	N/A	The section 4.5.1
BL410E	BALUN	V22.930	N/A	The section 4.5.2&4.5.3&4.5.4&4.5.5

4.4 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Parameters	Uncertainty
Occupied Channel Bandwidth	2.8%
RF output power, conducted	1.28 dB
Power Spectral Density, conducted	1.30 dB
Unwanted Emissions, conducted	1.84 dB
All emissions, radiated	5.36 dB
Temperature	0.8°C
Humidity	4%

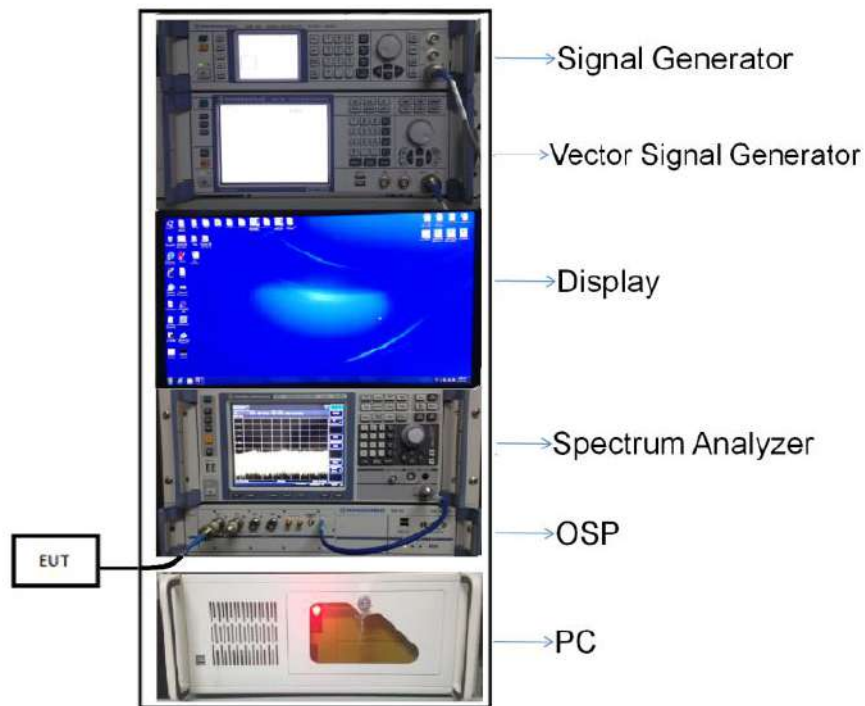
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

Conducted value (dBm) = Measurement value (dBm) + cable loss (dB)

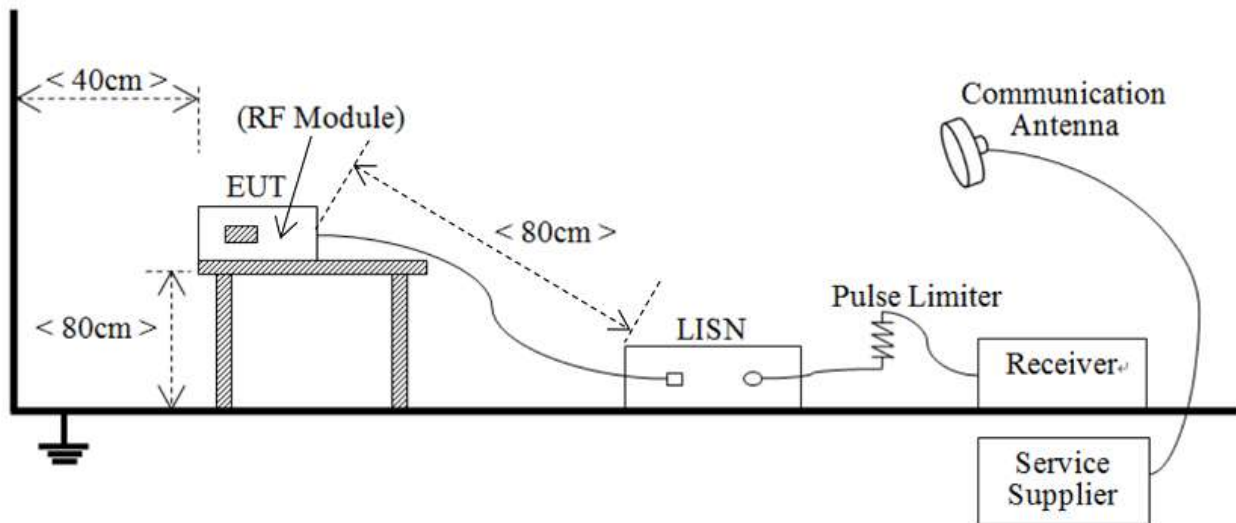
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

Conducted value (dBm) = 10 dBm + 0.5 dB = 10.5 dBm



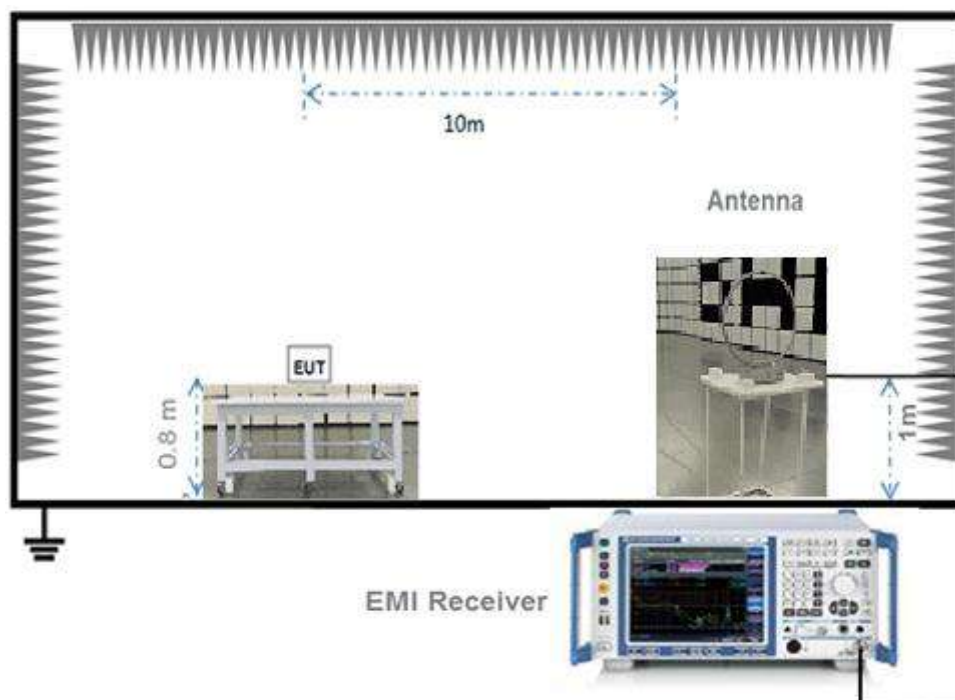
(Diagram 1)

4.5.2 For AC Power Supply Port Test



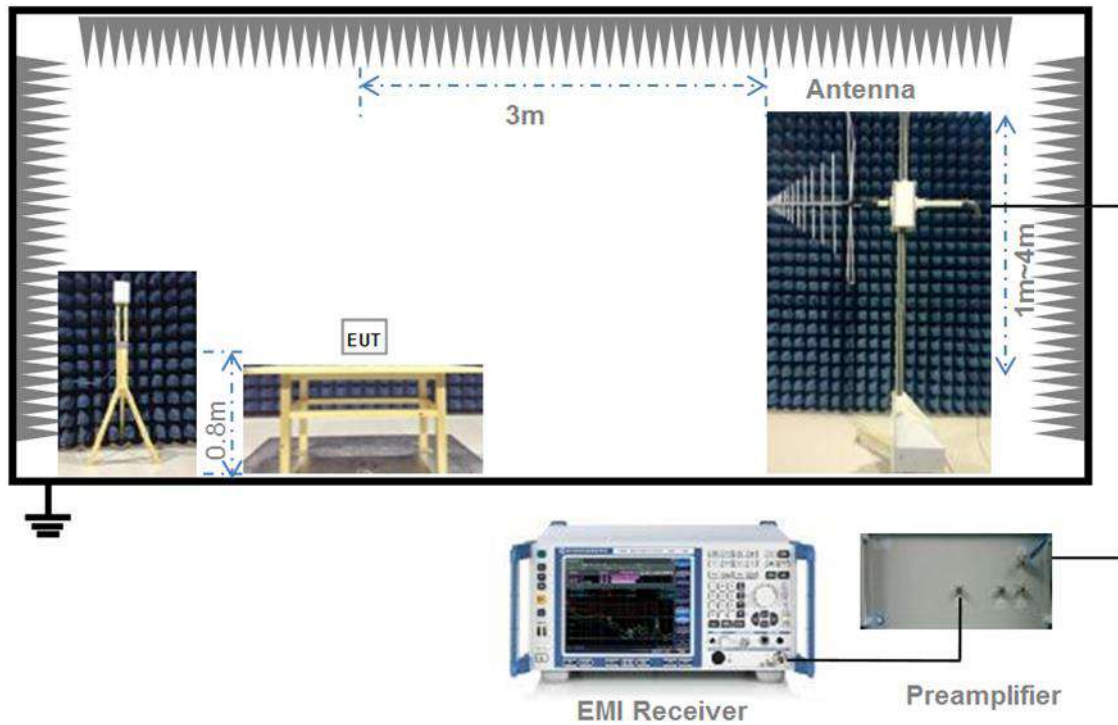
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



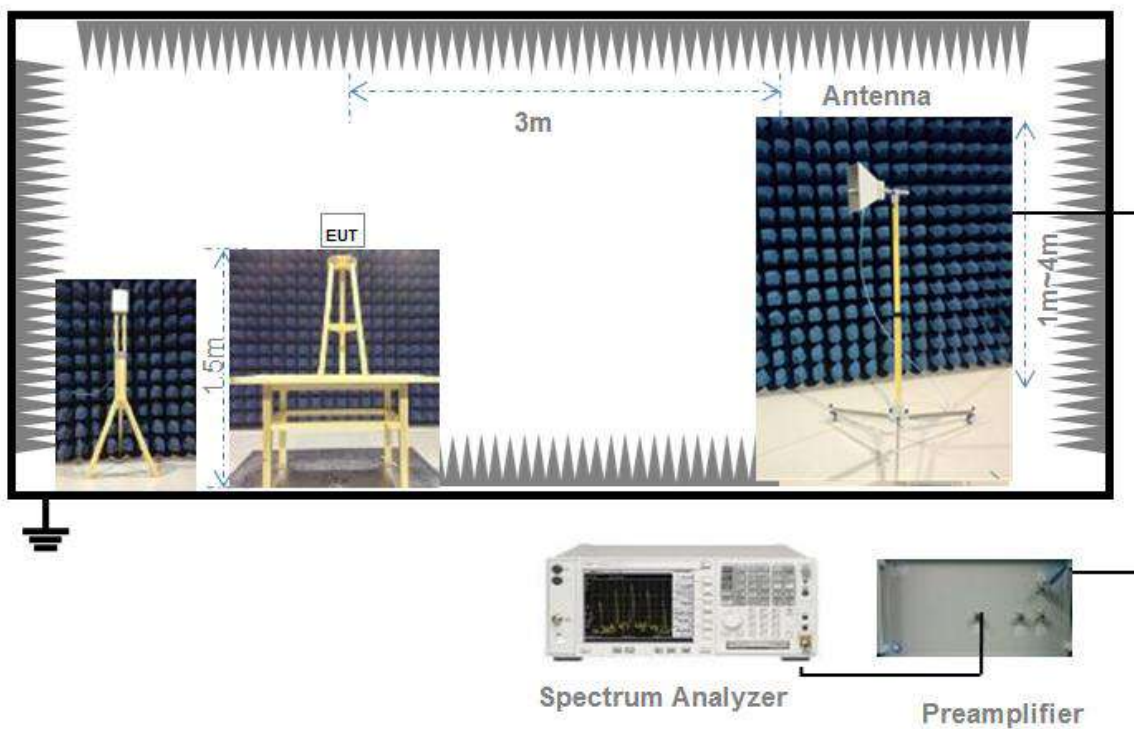
(Diagram 3)

4.5.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.5.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

4.6 Measurement Results Explanation Example

4.6.1 For conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

4.6.2 For radiated band edges and spurious emission test:

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

where:

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

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

EIRP = Measure Conducted output power Value (dBm) + Maximum transmit antenna gain (dBi) + the appropriate maximum ground reflection factor (dB)

5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Relevant Standards

FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

If directional gain of transmitting antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

Protected Method	Description
The antenna is embedded in the product.	An embedded-in antenna design is used.

Reference Documents	Item
Photo	Please refer to the EUT Photo documents.

5.1.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

5.2 Output Power

5.2.1 Test Limit

FCC § 15.247(b)

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements.

5.2.2 Test Setup

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

5.2.3 Test Procedure

Maximum peak conducted output power

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

The EUT shall be transmitted at its maximum power control level.

Maximum conducted (average) output power (Reporting Only)

a) As an alternative to spectrum analyzer or EMI receiver measurements, measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied.

- 1) The EUT is configured to transmit continuously, or to transmit with a constant duty factor.
 - 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
 - 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- b) If the transmitter does not transmit continuously, measure the duty cycle (x) of the transmitter output signal.
- c) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
- d) Adjust the measurement in dBm by adding $10\log(1/x)$, where x is the duty cycle.

Measurements of duty cycle

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between

bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal.

Set the center frequency of the instrument to the center frequency of the transmission.

Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.

Set $VBW \geq RBW$. Set detector = peak or average.

The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

5.2.4 Test Result

Please refer to ANNEX A.1.

5.3 Occupied Bandwidth

5.3.1 Limit

FCC §15.247(a)

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW. The 6 dB bandwidth must be greater than 500 kHz.

5.3.2 Test Setup

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

5.3.3 Test Procedure

Use the following spectrum analyzer settings:

Set RBW = 100 kHz.

Set the video bandwidth (VBW) ≥ 3 RBW.

Detector = Peak.

Trace mode = max hold.

Sweep = auto couple.

Allow the trace to stabilize.

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.3.4 Test Result

Please refer to ANNEX A.2.

5.4 Conducted Spurious Emission

5.4.1 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.

5.4.2 Test Setup

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

5.4.3 Test Procedure

The DTS rules specify that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions:

- a) If the maximum peak conducted output power procedure was used to demonstrate compliance as described in 9.1, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).
- b) If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).
- c) In either case, attenuation to levels below the 15.209 general radiated emissions limits is not required.

The following procedures shall be used to demonstrate compliance to these limits. Note that these procedures can be used in either an antenna-port conducted or radiated test set-up. Radiated tests must conform to the test site requirements and utilize maximization procedures defined herein.

Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to ≥ 1.5 times the DTS bandwidth.

Set the RBW = 100 kHz.

Set the VBW $\geq 3 \times$ RBW.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum PSD level.

Emission level measurement

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

Set the RBW = 100 kHz.

Set the VBW $\geq 3 \times$ RBW.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in 11.1 a) or 11.1 b). Report the three highest emissions relative to the limit.

5.4.4 Test Result

Please refer to ANNEX A.3.

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 B.

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

Please refer to ANNEX A.4.

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 B.

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

Please refer to ANNEX A.5.

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 ($\mu\text{V}/\text{m}$)	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 B.

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

Please refer to ANNEX A.6.

5.8 Band Edge (Restricted-band band-edge)

5.8.1 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).

5.8.2 Test Setup

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

5.8.3 Test Procedure

The measurement frequency range is from 9 kHz 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

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

For transmitters operating above 1 GHz repeat the measurement with an average detector.

5.8.4 Test Result

Please refer to ANNEX A.7.

5.9 Power Spectral density (PSD)

5.9.1 Limit

FCC §15.247(e)

The same method of determining the conducted output power shall be used to determine the power spectral density. If a peak output power is measured, then a peak power spectral density measurement is required. If an average output power is measured, then an average power spectral density measurement should be used.

5.9.2 Test Setup

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

5.9.3 Test Procedure

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.

Set the VBW $\geq 3 \text{ RBW}$.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.9.4 Test Result

Please refer to ANNEX A.8.

ANNEX A TEST RESULT

A.1 Output Power

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle
802.11b	8.374	8.541	98.04%
802.11g	1.393	1.566	88.95%
802.11n-20 MHz	1.173	1.317	89.07%
802.11n-40 MHz	0.587	0.731	80.24%
VHT-20 MHz	1.279	1.416	90.32%
VHT-40 MHz	0.677	0.835	81.08%

Peak Power Test Data

802.11b Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	20.72	118.03	30	1000	Pass
CH6	20.57	114.02			Pass
CH11	20.48	111.69			Pass

802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	15.00	31.62	30	1000	Pass
CH2	24.88	307.61			Pass
CH6	24.77	299.92			Pass
CH10	24.67	293.09			Pass
CH11	16.44	44.06			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	15.72	37.33	30	1000	Pass
CH2	24.82	303.39			Pass
CH6	24.69	294.44			Pass
CH10	24.63	290.40			Pass
CH11	16.08	40.55			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	15.01	31.70	30	1000	Pass
CH4	20.25	105.93			Pass
CH5	21.17	130.92			Pass
CH6	22.28	169.04			Pass
CH7	20.67	116.68			Pass
CH8	20.56	113.76			Pass
CH9	14.20	26.30			Pass

VHT20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	15.66	36.81	30	1000	Pass
CH2	21.91	155.24			Pass
CH6	21.64	145.88			Pass
CH10	21.87	153.82			Pass
CH11	15.96	39.45			Pass

VHT40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	16.23	41.98	30	1000	Pass
CH4	18.95	78.52			Pass
CH5	19.77	94.84			Pass
CH6	21.00	125.89			Pass
CH8	20.80	120.23			Pass
CH9	15.26	33.57			Pass

Average Power Test Data

802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	18.22	66.37	30	1000	Pass
CH6	18.02	63.39			Pass
CH11	18.01	63.24			Pass

802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	8.74	7.48	30	1000	Pass
CH2	18.41	69.34			Pass
CH6	18.28	67.30			Middle
CH10	18.35	68.39			Middle
CH11	9.96	9.91			Middle

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	8.66	7.35	30	1000	Pass
CH2	17.51	56.36			Pass
CH6	17.41	55.08			Pass
CH10	17.53	56.62			Pass
CH11	8.92	7.80			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	7.72	5.92	30	1000	Pass
CH4	13.03	20.09			Pass
CH5	13.98	25.00			Pass
CH6	15.06	32.06			Pass
CH7	13.93	24.72			Pass
CH8	13.79	23.93			Pass
CH9	7.06	5.08			Pass

VHT20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	9.04	8.02	30	1000	Pass
CH2	15.22	33.27			Pass
CH6	15.08	32.21			Pass
CH10	15.23	33.34			Pass
CH11	9.30	8.51			Pass

VHT40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	9.40	8.71	30	1000	Pass
CH4	12.74	18.79			Pass
CH5	13.62	23.01			Pass
CH6	14.40	27.54			Pass
CH8	14.29	26.85			Pass
CH9	8.54	7.14			Pass

A.2 Occupied Bandwidth

Test Data

802.11b Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
CH1	10.100000	12.070000	≥500
CH6	10.100000	12.060000	≥500
CH11	10.100000	12.150000	≥500

802.11g Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
CH1	16.150000	17.009000	≥500
CH6	16.400000	17.367000	≥500
CH11	16.150000	17.032000	≥500

802.11n-20MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
CH1	16.800000	17.782000	≥500
CH6	16.800000	17.937000	≥500
CH11	16.950000	17.808000	≥500

802.11n-40MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
CH3	35.700000	36.189000	≥500
CH6	35.750000	36.252000	≥500
CH9	35.550000	36.179000	≥500

VHT-20 MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
CH1	16.800000	17.736000	≥500
CH6	17.400000	18.113000	≥500
CH11	16.750000	17.827000	≥500

VHT-40 MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
CH3	35.450000	36.137000	≥ 500
CH6	35.400000	36.197000	≥ 500
CH9	35.200000	36.127000	≥ 500

Test Plots

6 dB Bandwidth

802.11b LOW CHANNEL



802.11b MIDDLE CHANNEL



802.11b HIGH CHANNEL



802.11g LOW CHANNEL



802.11g MIDDLE CHANNEL



802.11g HIGH CHANNEL



802.11n-20 MHz LOW CHANNEL



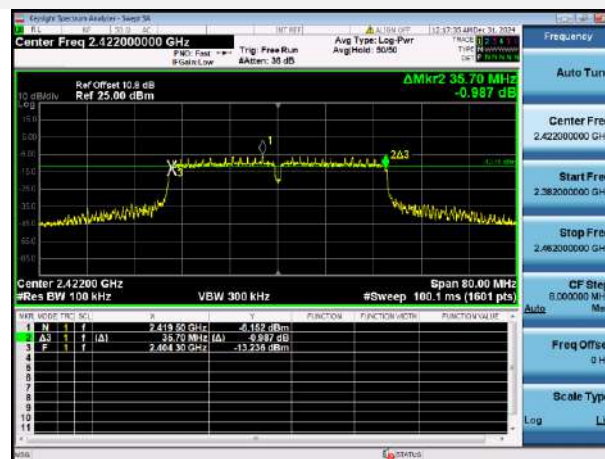
802.11n-20 MHz MIDDLE CHANNEL



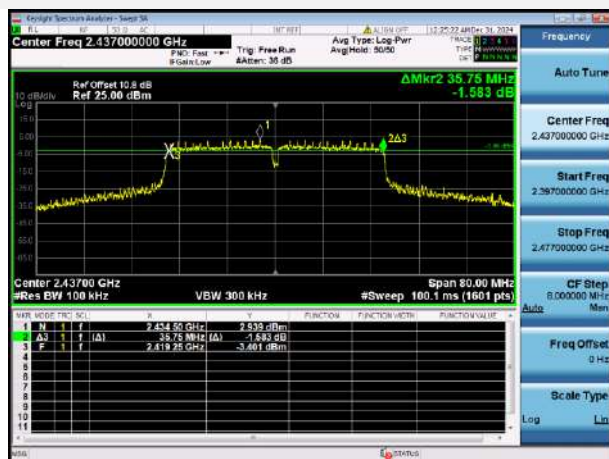
802.11n-20 MHz HIGH CHANNEL



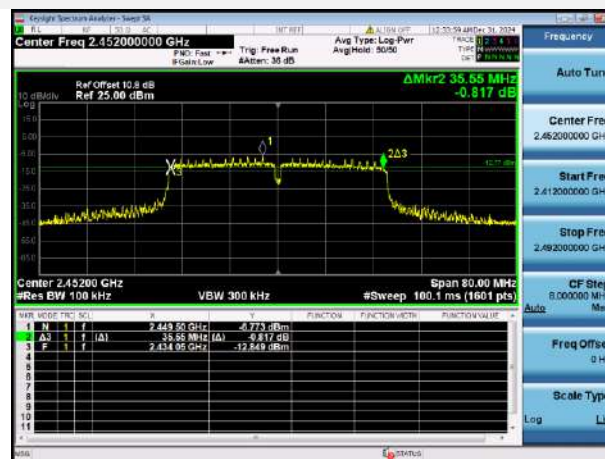
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



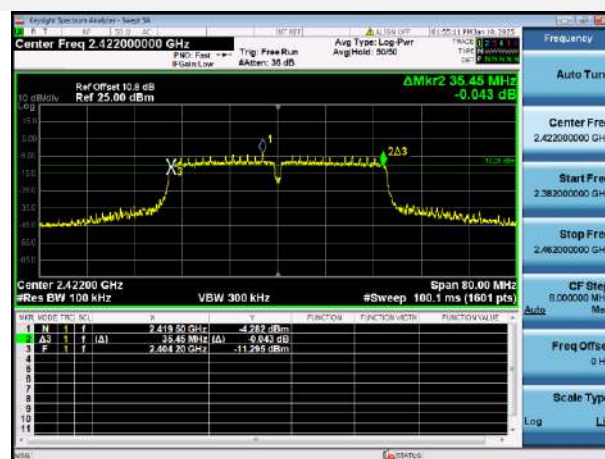
802.11n-40 MHz HIGH CHANNEL



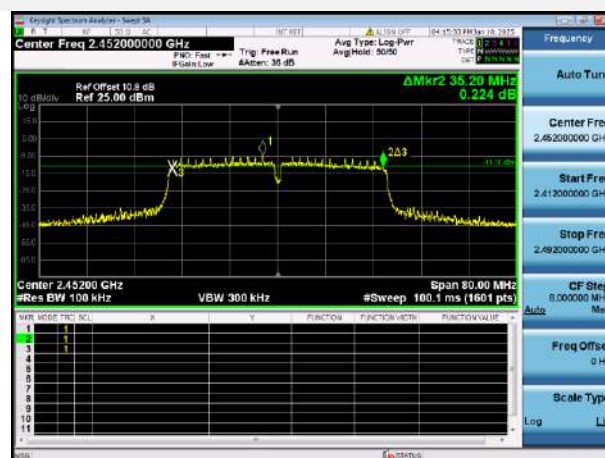
VHT-20 MHz MIDDLE CHANNEL



VHT-40 MHz LOW CHANNEL



VHT-40 MHz HIGH CHANNEL



99% Bandwidth

802.11b LOW CHANNEL



802.11b MIDDLE CHANNEL



802.11b HIGH CHANNEL



802.11g LOW CHANNEL



802.11g MIDDLE CHANNEL



802.11g HIGH CHANNEL



802.11n-20 MHz LOW CHANNEL



802.11n-20 MHz MIDDLE CHANNEL



802.11n-20 MHz HIGH CHANNEL



802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



VHT-20 MHz LOW CHANNEL



VHT-20 MHz MIDDLE CHANNEL



VHT-20 MHz HIGH CHANNEL



VHT-40 MHz LOW CHANNEL



VHT-40 MHz MIDDLE CHANNEL



VHT-40 MHz HIGH CHANNEL



A.3 Conducted Spurious Emissions

Test Data

802.11b Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH1	-37.52	8.78	-11.22	Pass
CH6	-38.99	8.59	-11.41	Pass
CH11	-38.59	8.49	-11.51	Pass

802.11g Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH1	-38.06	-2.05	-22.05	Pass
CH2	-38.23	7.99	-12.01	Pass
CH6	-38.61	7.89	-12.11	Pass
CH10	-37.66	7.69	-12.31	Pass
CH11	-38.24	-1.00	-21.00	Pass

802.11n-20MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH1	-36.87	-2.06	-22.06	Pass
CH2	-38.08	7.23	-12.77	Pass
CH6	-38.41	7.12	-12.88	Pass
CH10	-37.00	7.05	-12.95	Pass
CH11	-38.54	-1.91	-21.91	Pass

802.11n-40MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH3	-37.09	-5.99	-25.99	Pass
CH4	-38.52	3.14	-16.86	Pass
CH5	-37.73	0.25	-19.75	Pass
CH6	-38.01	3.10	-16.90	Pass
CH7	-38.13	0.08	-19.92	Pass
CH8	-38.46	3.03	-16.97	Pass
CH9	-38.10	-6.72	-26.72	Pass

VHT-20 MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH1	-38.09	-1.48	-21.48	Pass
CH2	-38.56	4.53	-15.47	Pass
CH6	-38.71	3.95	-16.05	Pass
CH10	-38.76	4.15	-15.85	Pass
CH11	-38.19	-1.50	-21.50	Pass

VHT-40 MHz Mode:

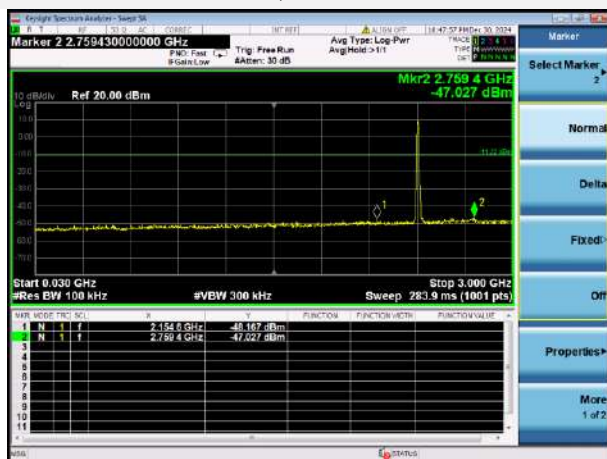
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH3	-38.22	-4.21	-24.21	Pass
CH4	-38.25	-1.14	-21.14	Pass
CH5	-38.70	-0.35	-20.35	Pass
CH6	-37.12	0.43	-19.57	Pass
CH8	-38.79	0.56	-19.44	Pass
CH9	-40.34	-4.95	-24.95	Pass

Test Plots

802.11b LOW CHANNEL CARRIER LEVEL



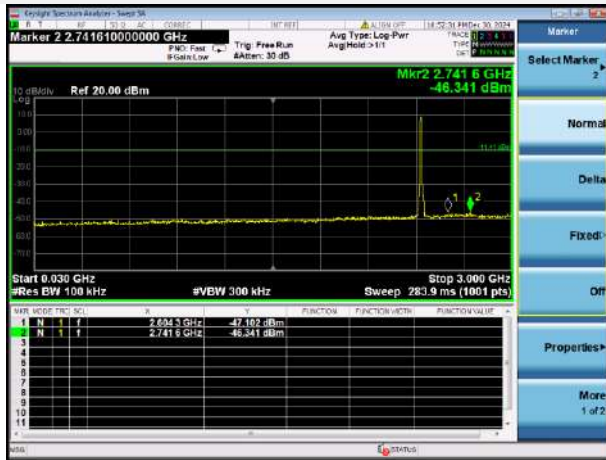
802.11b LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz 802.11b LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



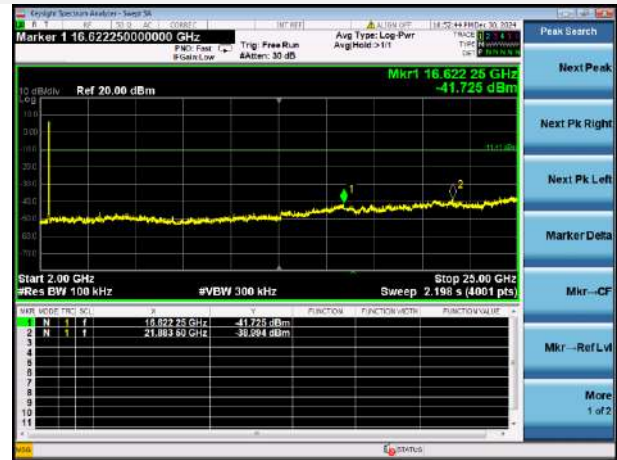
802.11b MIDDLE CHANNEL CARRIER LEVEL



802.11b MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



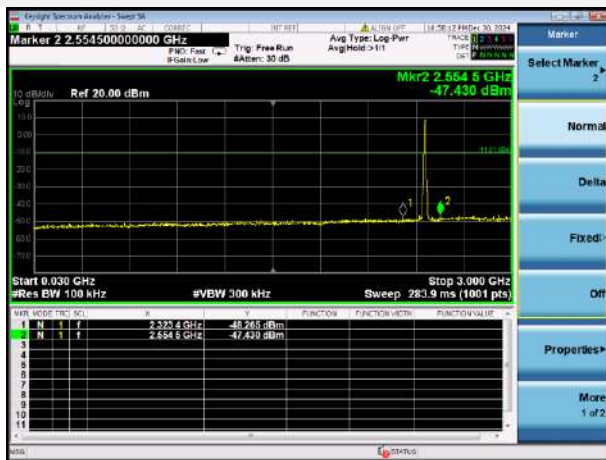
802.11b MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



802.11b HIGH CHANNEL CARRIER LEVEL

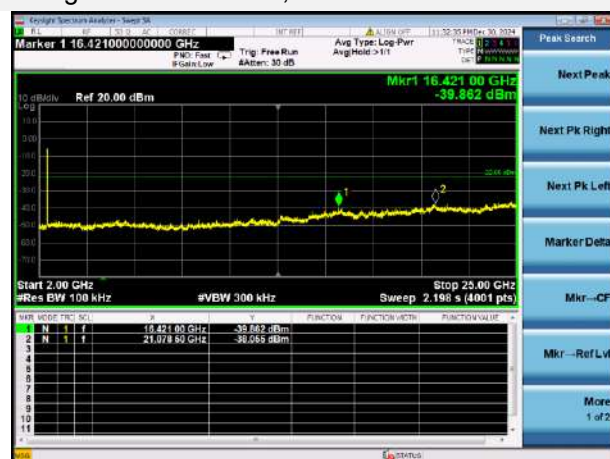


802.11b HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz

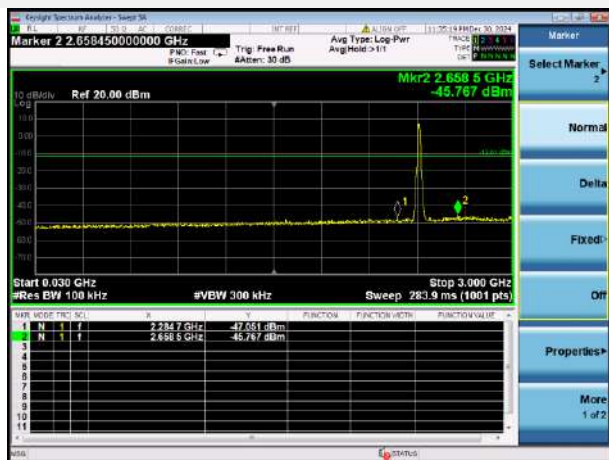


802.11b HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

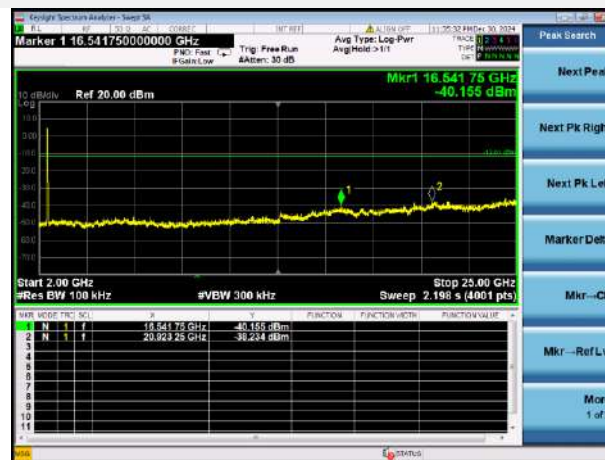




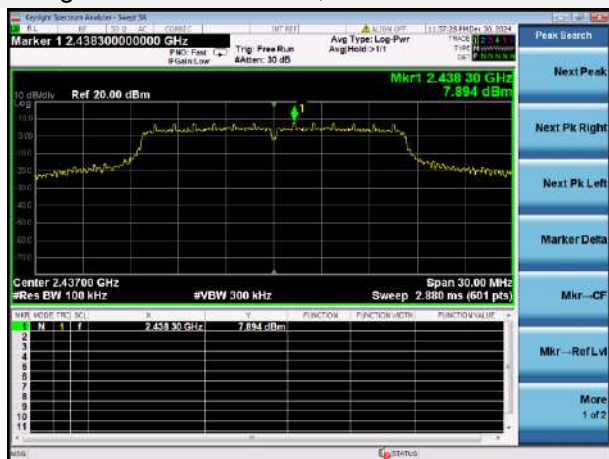
802.11g CHANNEL 2, SPURIOUS 30 MHz ~ 3 GHz



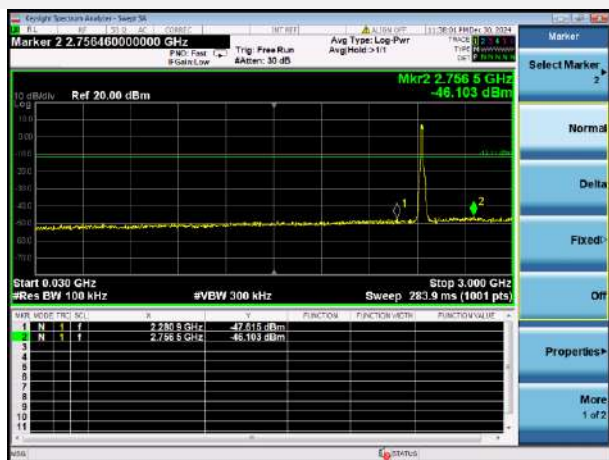
802.11g CHANNEL 2, SPURIOUS 2 GHz ~ 25 GHz



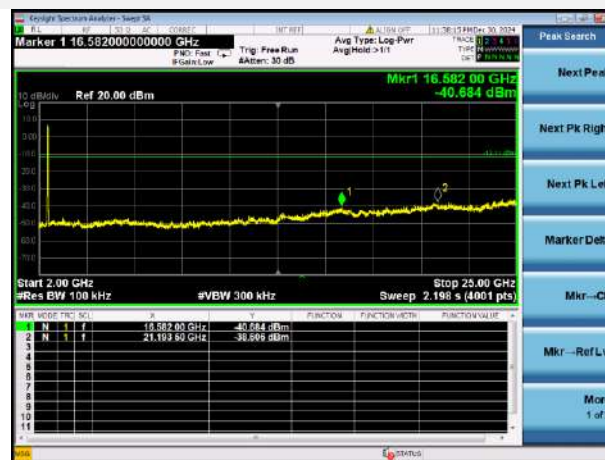
802.11g MIDDLE CHANNEL, CARRIER LEVEL



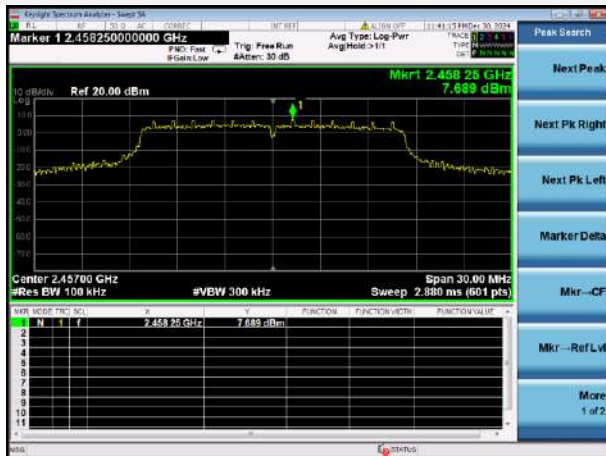
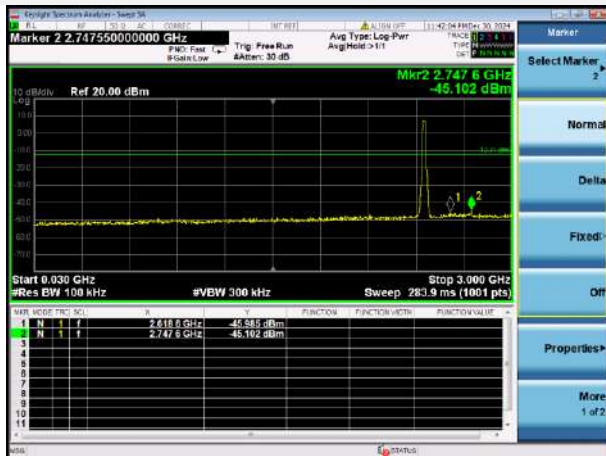
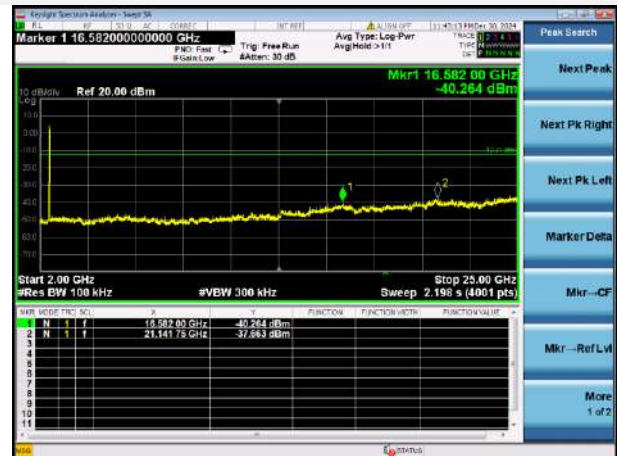
802.11g MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



802.11g MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



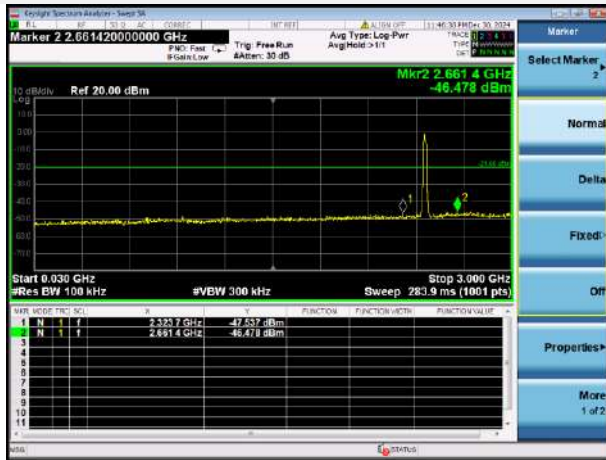
802.11g CHANNEL 10, CARRIER LEVEL

802.11g CHANNEL 10, SPURIOUS
30 MHz ~ 3 GHz802.11g CHANNEL 10, SPURIOUS
2 GHz ~ 25 GHz

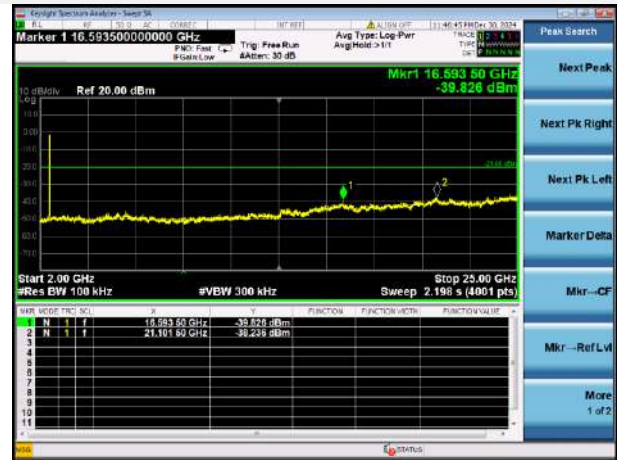
802.11g HIGH CHANNEL CARRIER LEVEL



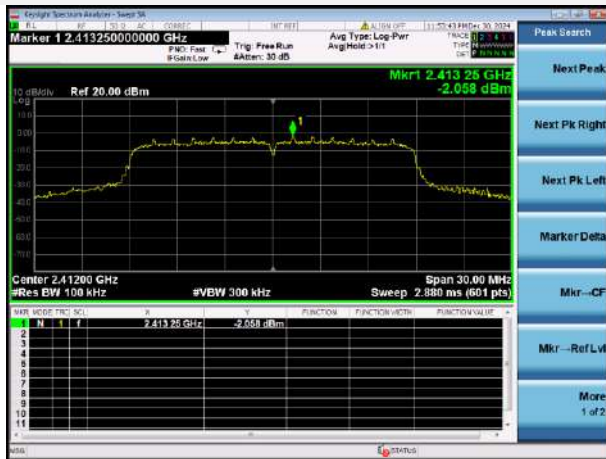
802.11g HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



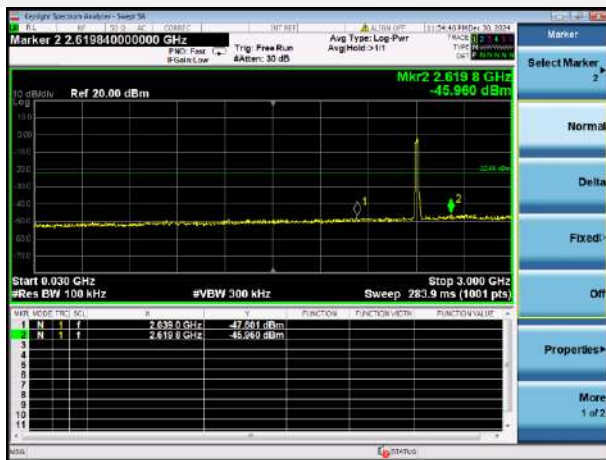
802.11g HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



802.11n-20 MHz LOW CHANNEL CARRIER LEVEL



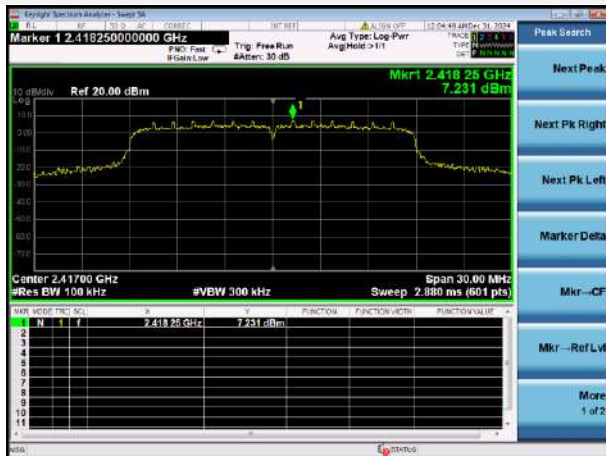
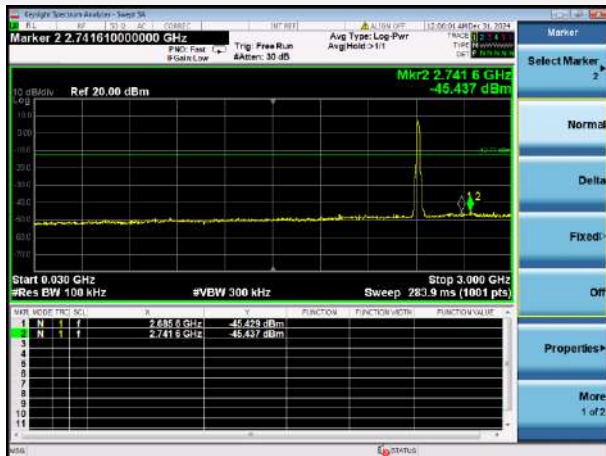
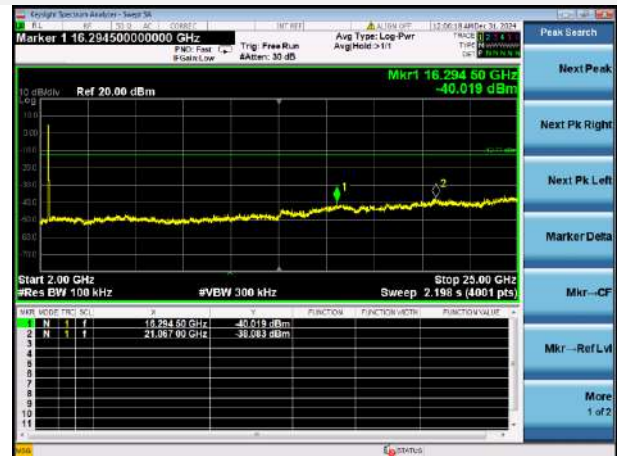
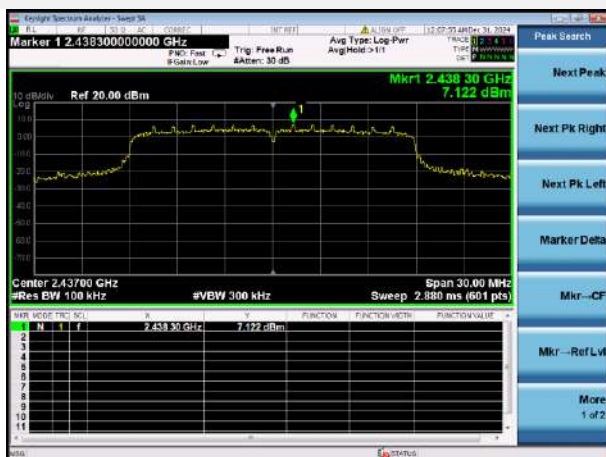
802.11n-20 MHz LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



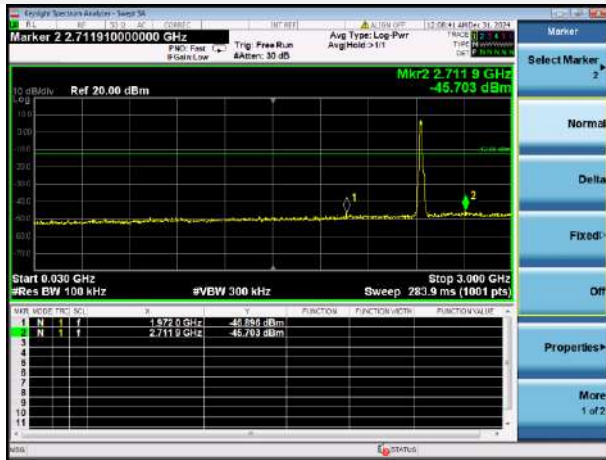
802.11n-20 MHz LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



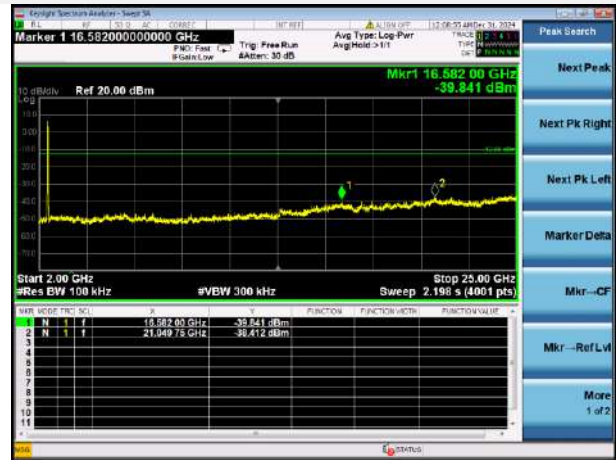
802.11n-20 MHz CHANNEL 2, CARRIER LEVEL

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

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



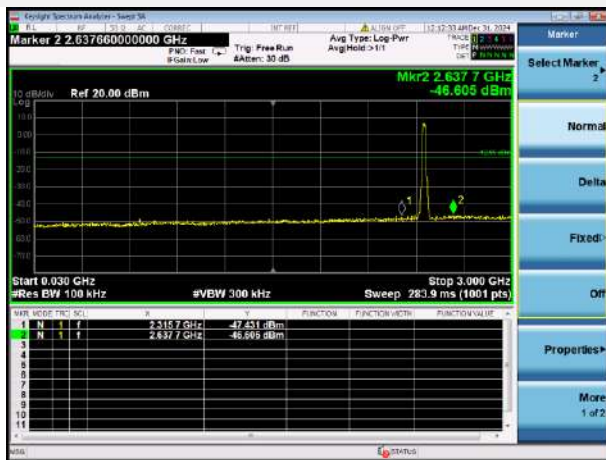
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



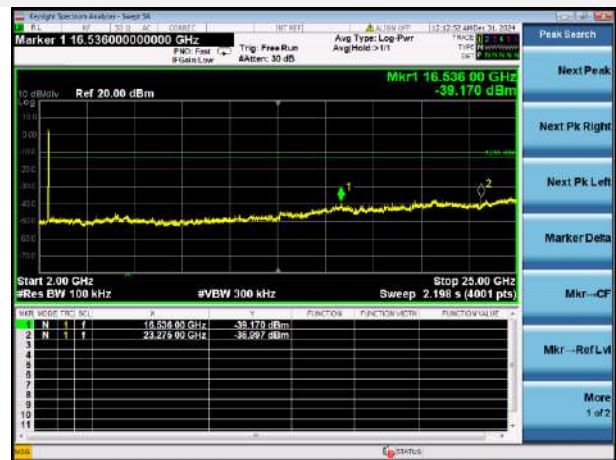
802.11n-20 MHz CHANNEL 10, CARRIER LEVEL



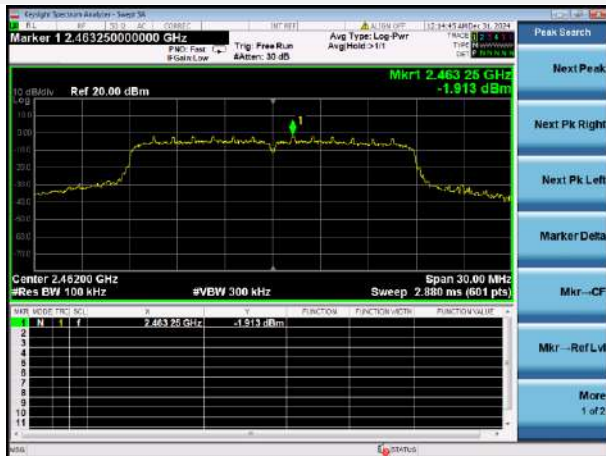
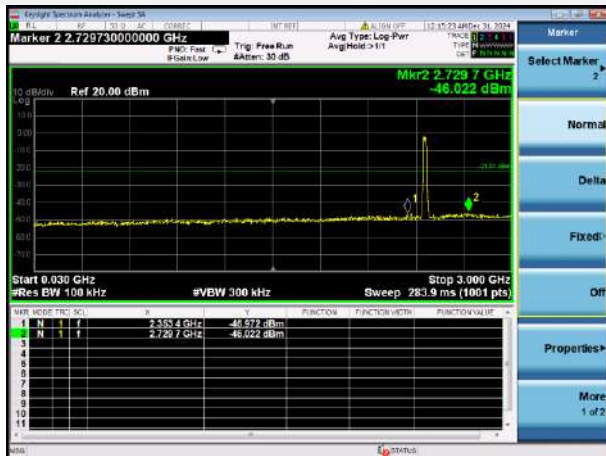
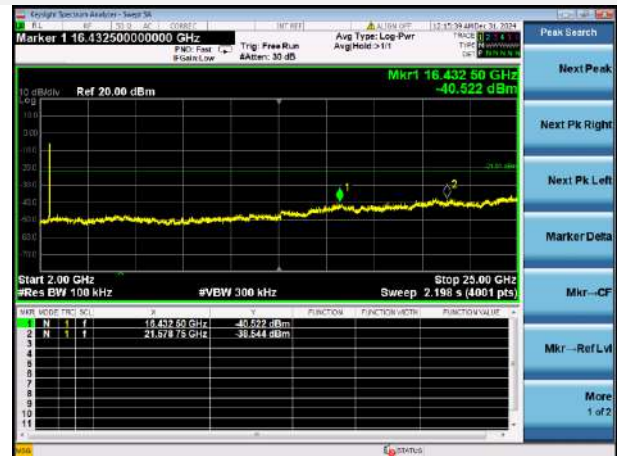
802.11n-20 MHz CHANNEL 10, SPURIOUS 30 MHz ~ 3 GHz



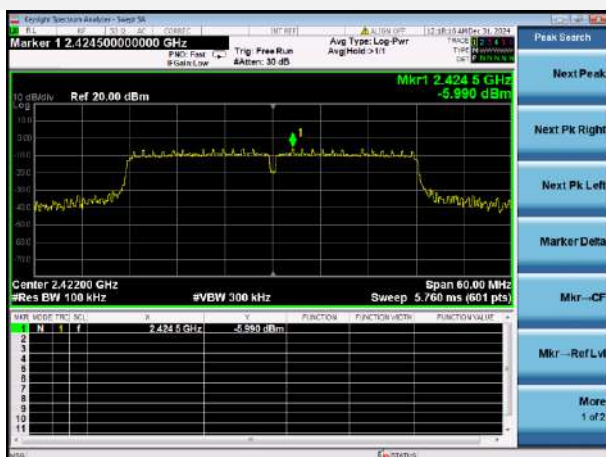
802.11n-20 MHz CHANNEL 10, SPURIOUS 2 GHz ~ 25 GHz



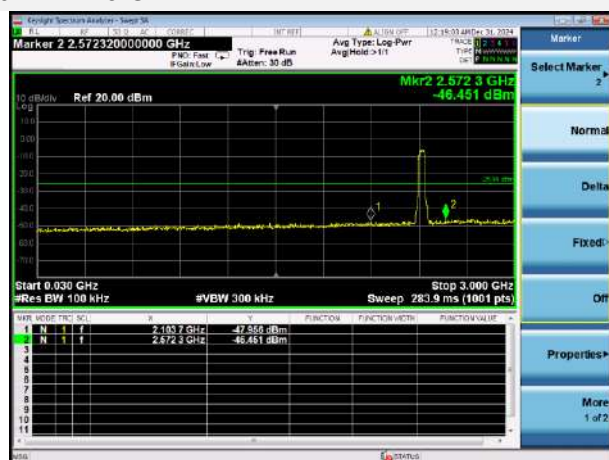
802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL

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

802.11n-40 MHz LOW CHANNEL CARRIER LEVEL



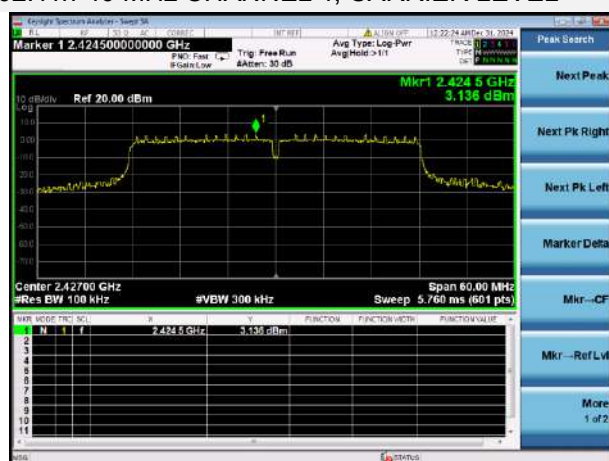
802.11n-40 MHz LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



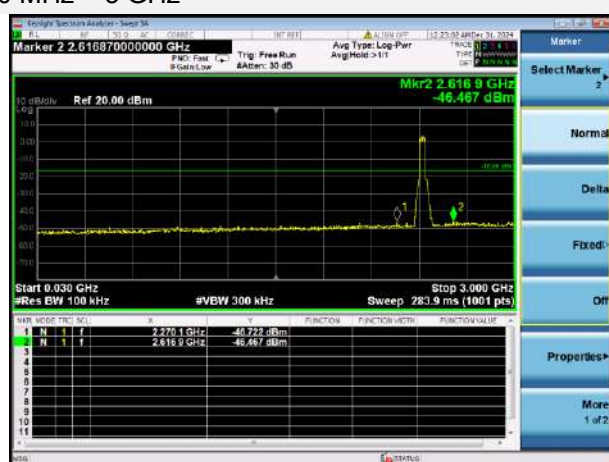
802.11n-40 MHz LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



802.11n-40 MHz CHANNEL 4, CARRIER LEVEL



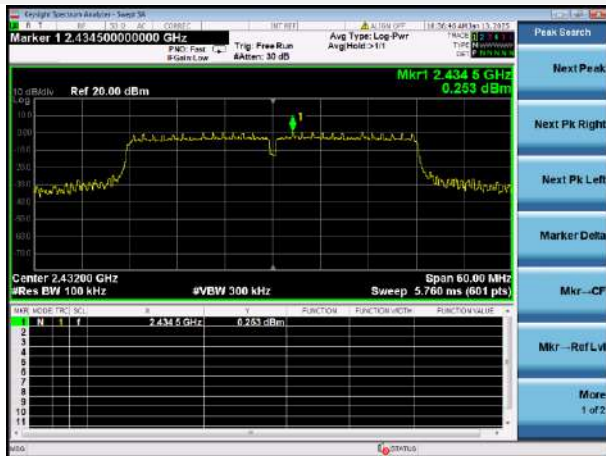
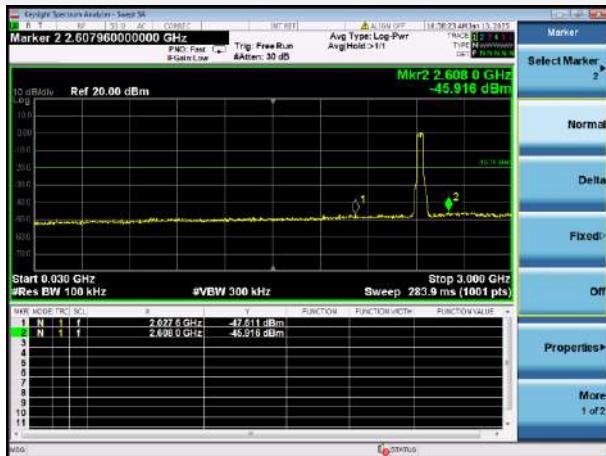
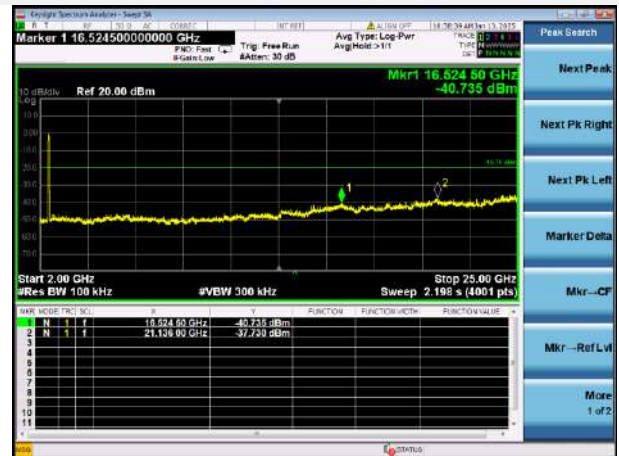
802.11n-40 MHz CHANNEL 4, SPURIOUS 30 MHz ~ 3 GHz



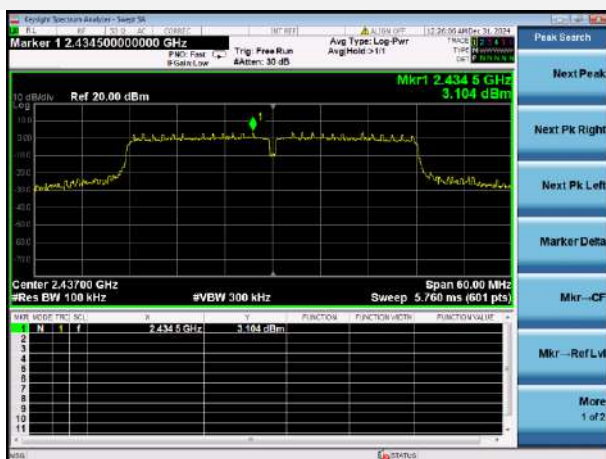
802.11n-40 MHz CHANNEL 4, SPURIOUS 2 GHz ~ 25 GHz



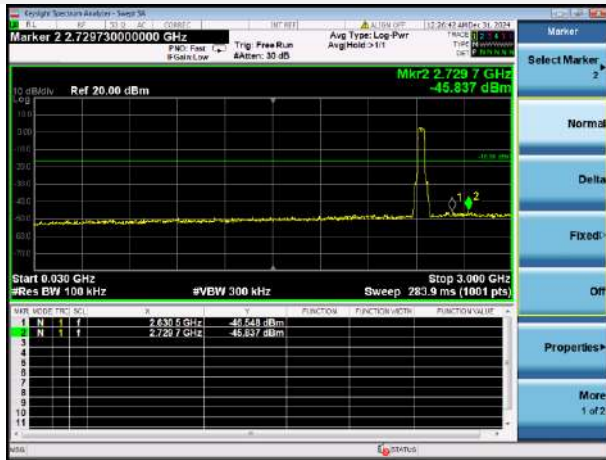
802.11n-40 MHz CHANNEL 5, CARRIER LEVEL

802.11n-40 MHz CHANNEL 5, SPURIOUS
30 MHz ~ 3 GHz802.11n-40 MHz CHANNEL 5, SPURIOUS
2 GHz ~ 25 GHz

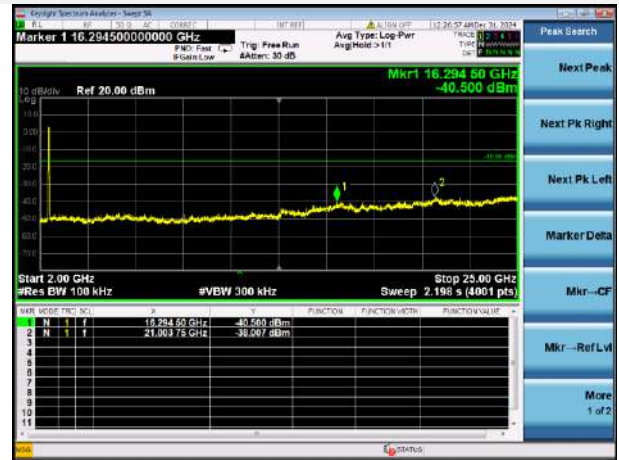
802.11n-40 MHz MIDDLE CHANNEL CARRIER LEVEL



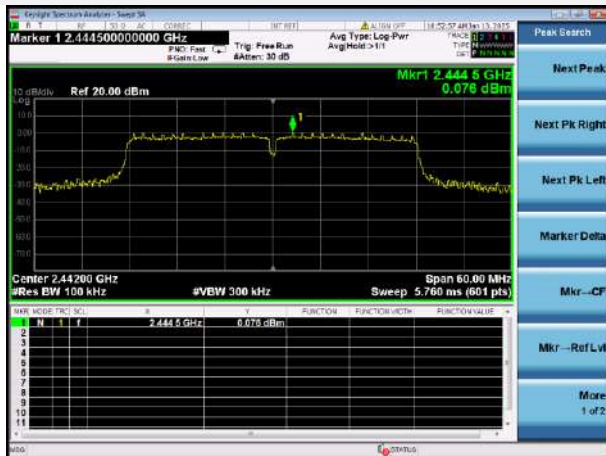
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



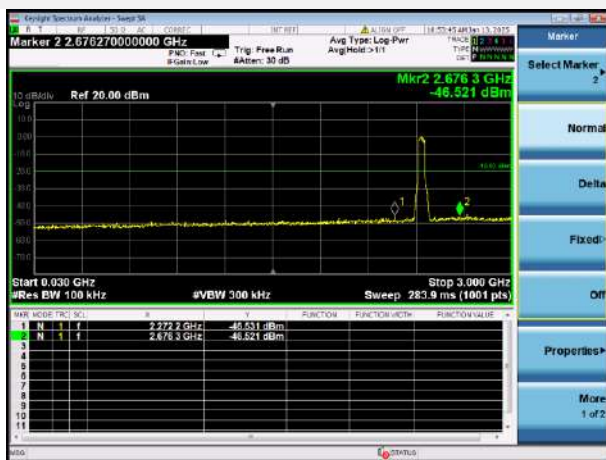
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



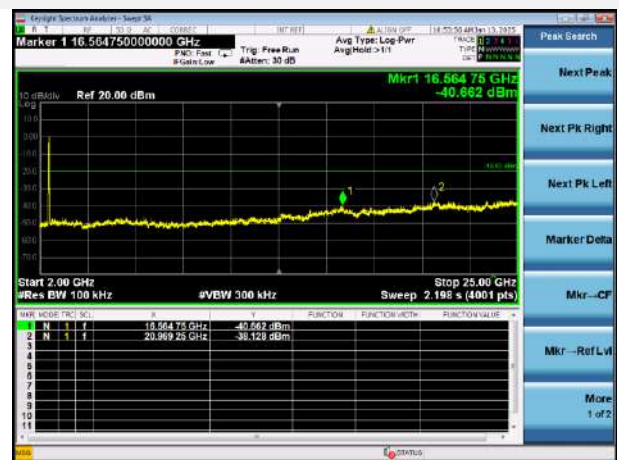
802.11n-40 MHz CHANNEL 7, CARRIER LEVEL



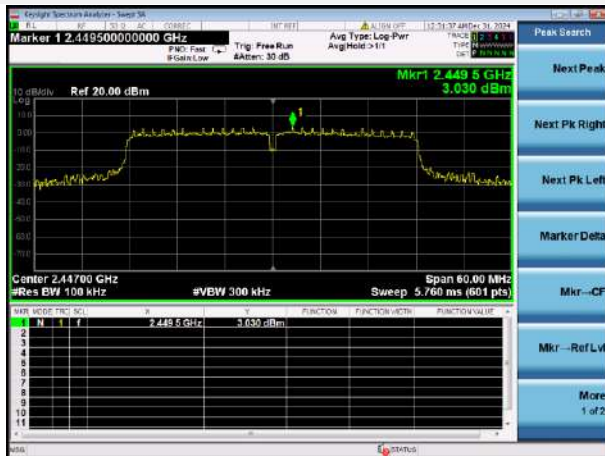
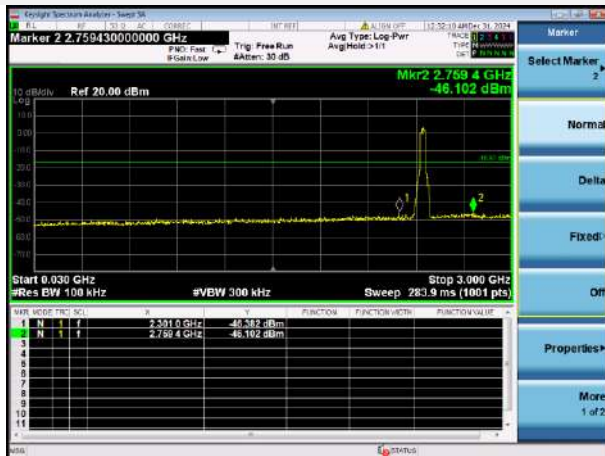
802.11n-40 MHz CHANNEL 7, SPURIOUS 30 MHz ~ 3 GHz



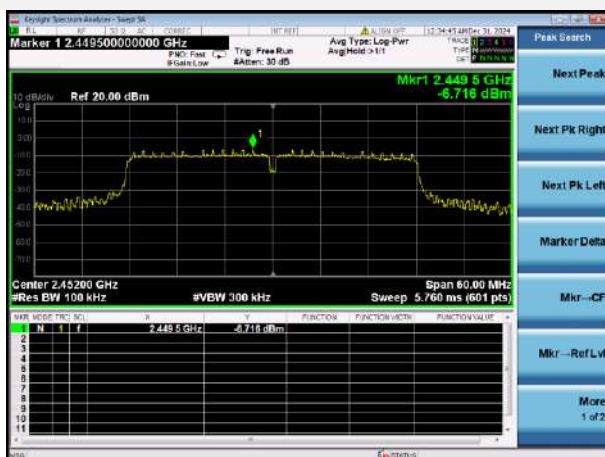
802.11n-40 MHz CHANNEL 7, SPURIOUS 2 GHz ~ 25 GHz



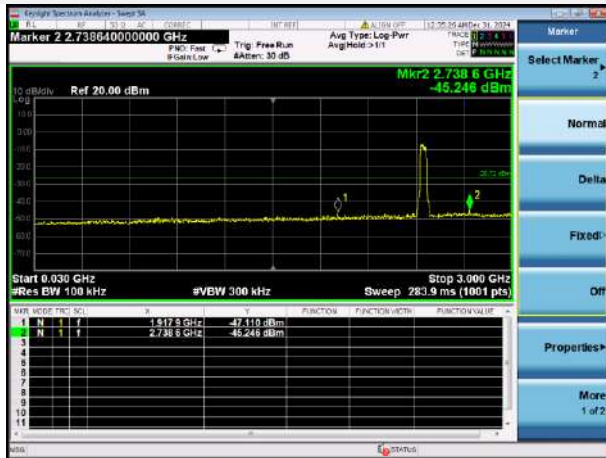
802.11n-40 MHz CHANNEL 8, CARRIER LEVEL

802.11n-40 MHz CHANNEL 8, SPURIOUS
30 MHz ~ 3 GHz802.11n-40 MHz CHANNEL 8, SPURIOUS
2 GHz ~ 25 GHz

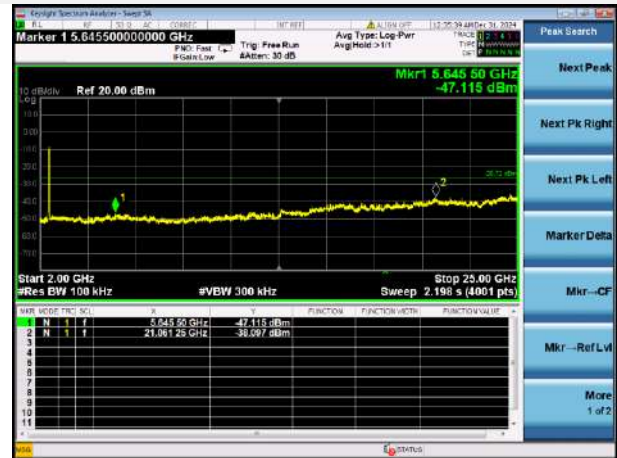
802.11n-40 MHz HIGH CHANNEL CARRIER LEVEL



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



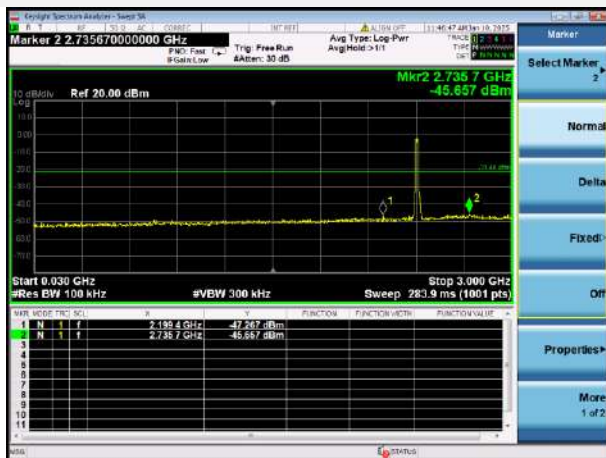
802.11n-40 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



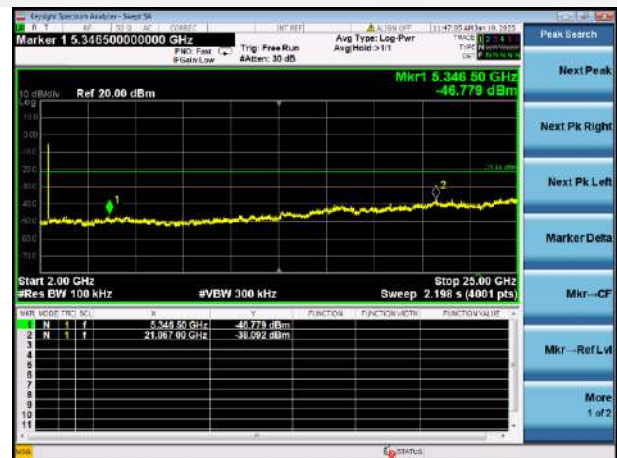
VHT-20 MHz LOW CHANNEL CARRIER LEVEL



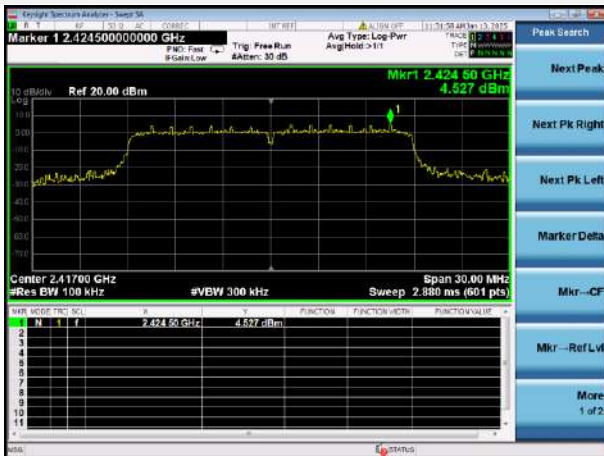
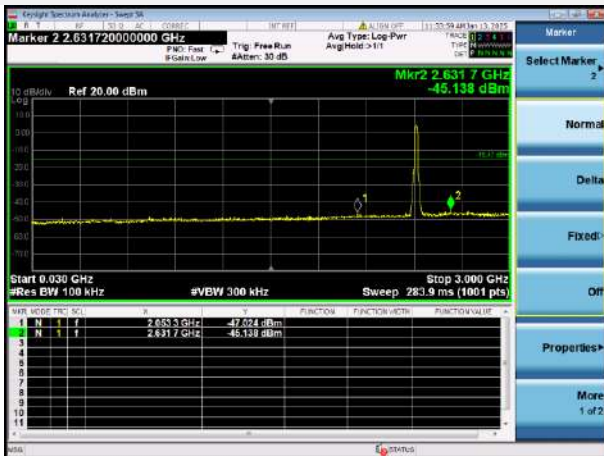
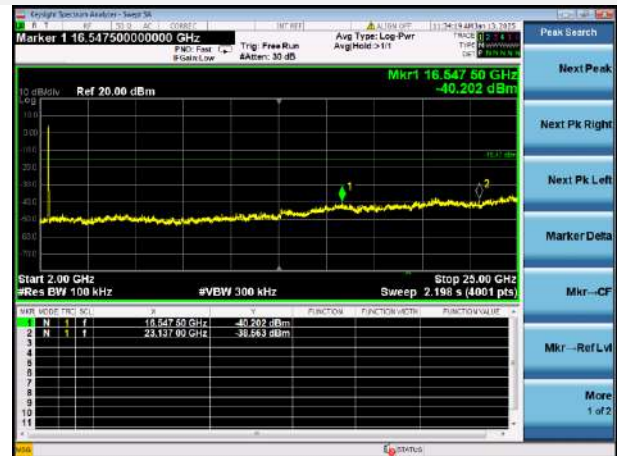
VHT-20 MHz LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



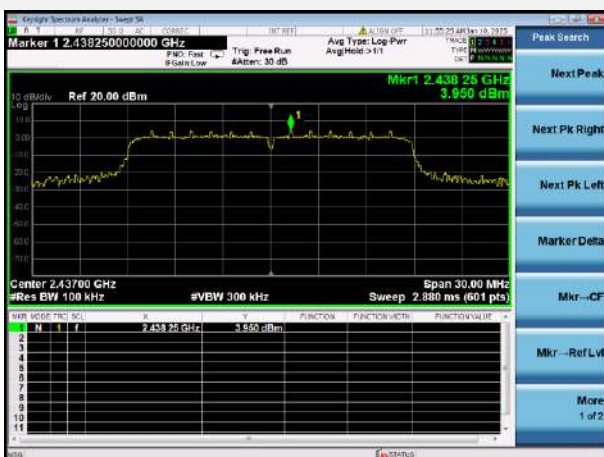
VHT-20 MHz LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



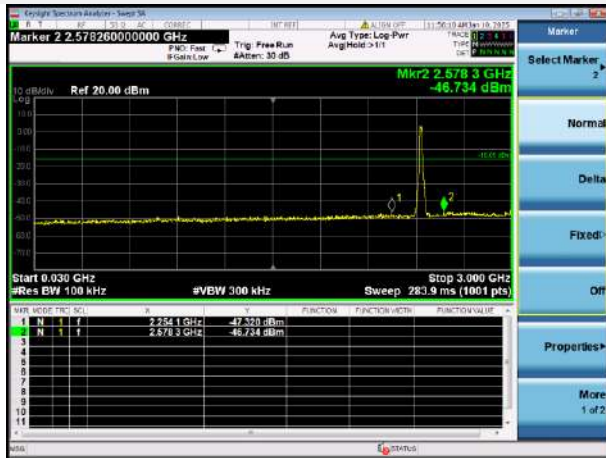
VHT-20 MHz CHANNEL 2, CARRIER LEVEL

VHT-20 MHz CHANNEL 2, SPURIOUS
30 MHz ~ 3 GHzVHT-20 MHz CHANNEL 2, SPURIOUS
2 GHz ~ 25 GHz

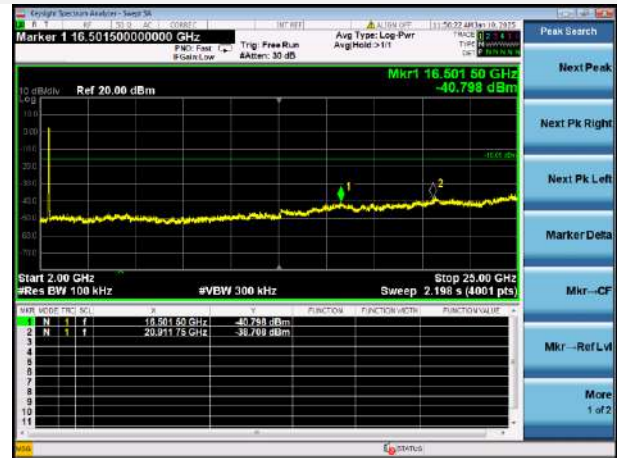
VHT-20 MHz MIDDLE CHANNEL CARRIER LEVEL



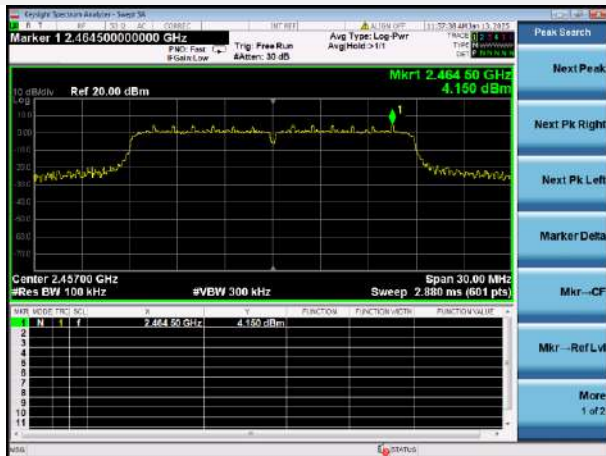
VHT-20 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz
~ 3 GHz



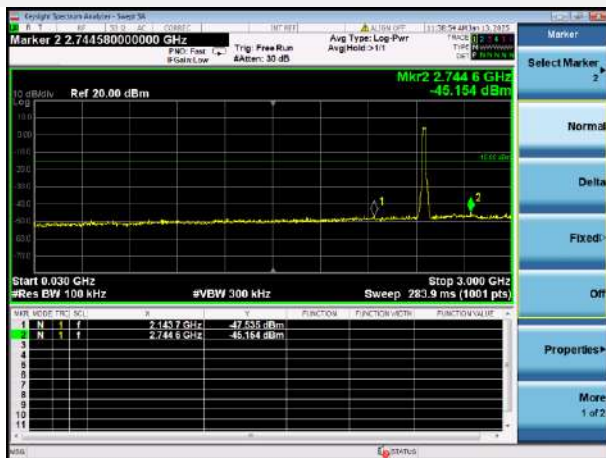
VHT-20 MHz MIDDLE CHANNEL, SPURIOUS
2 GHz ~ 25 GHz



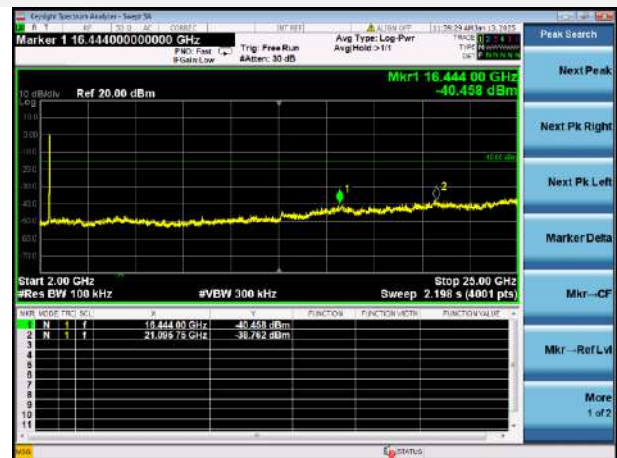
VHT-20 MHz CHANNEL 10, CARRIER LEVEL



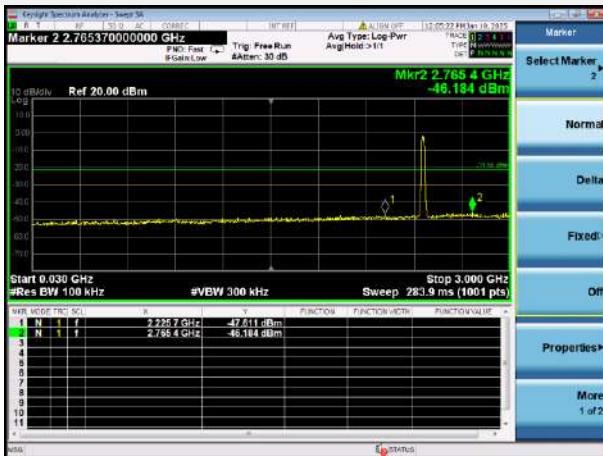
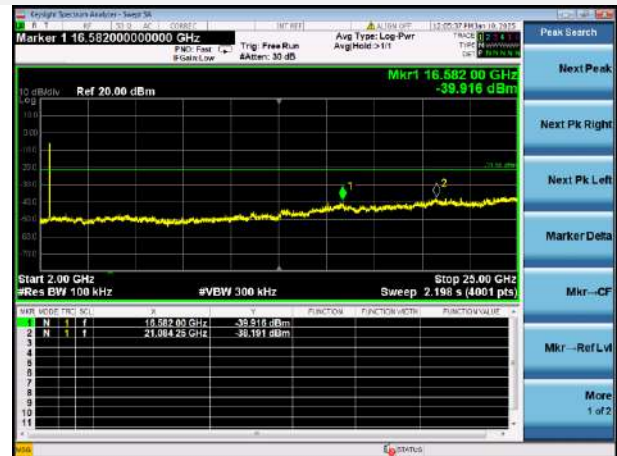
VHT-20 MHz CHANNEL 10, SPURIOUS
30 MHz ~ 3 GHz



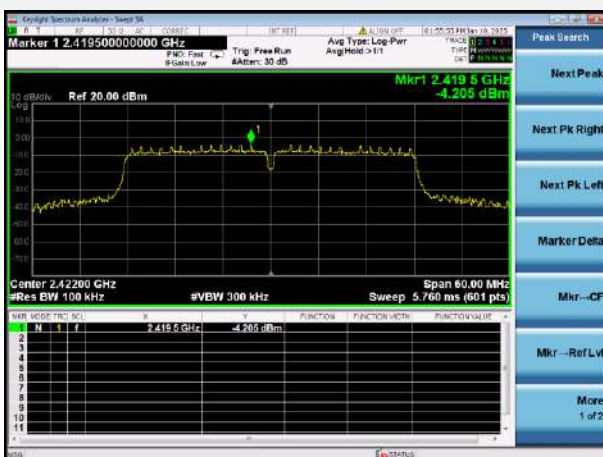
VHT-20 MHz CHANNEL 10, SPURIOUS
2 GHz ~ 25 GHz



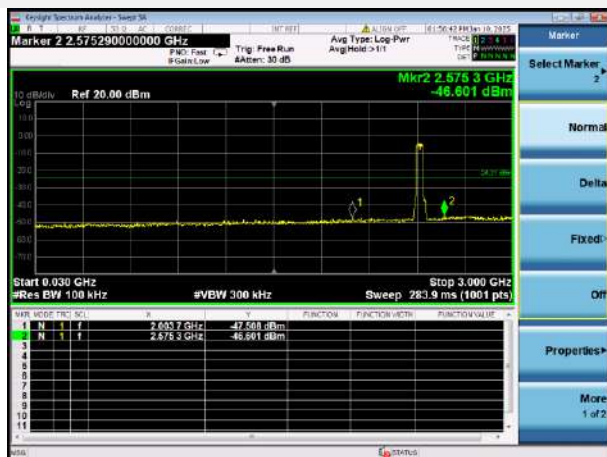
VHT-20 MHz HIGH CHANNEL CARRIER LEVEL

VHT-20 MHz HIGH CHANNEL, SPURIOUS
30 MHz ~ 3 GHzVHT-20 MHz HIGH CHANNEL, SPURIOUS
2 GHz ~ 25 GHz

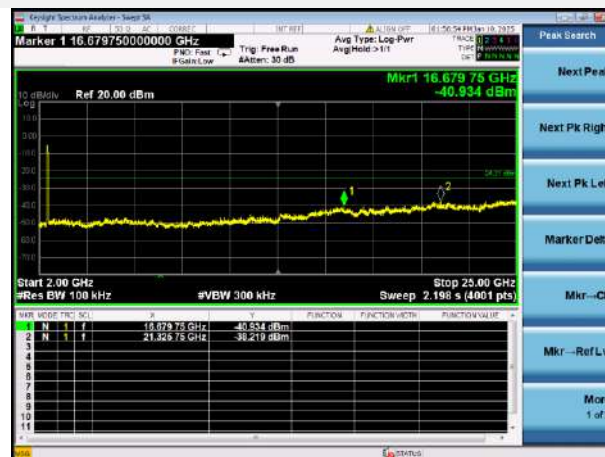
VHT-40 MHz LOW CHANNEL CARRIER LEVEL



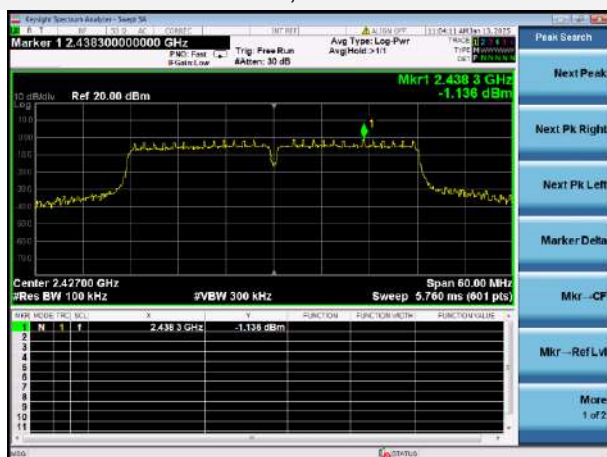
VHT-40 MHz LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



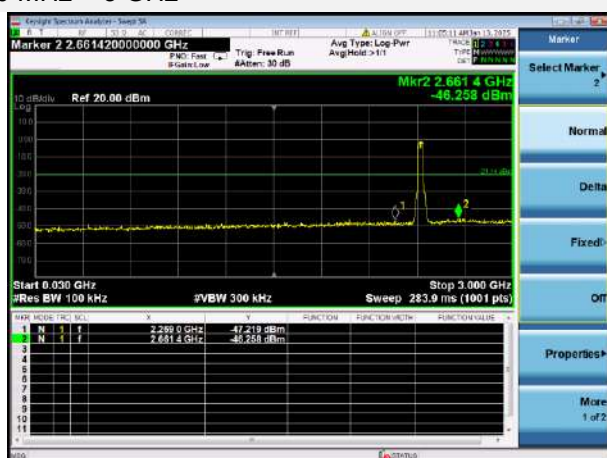
VHT-40 MHz LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



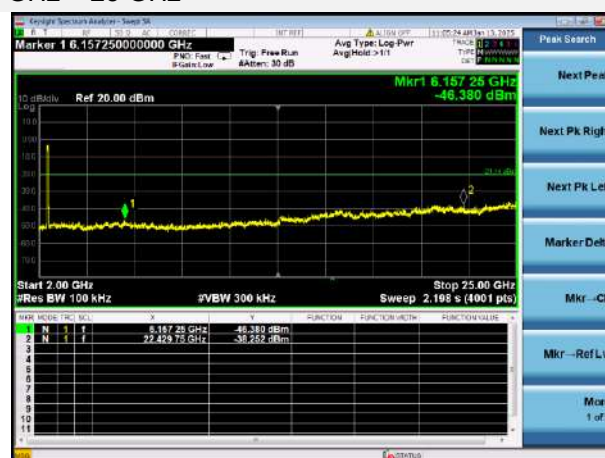
VHT-40 MHz CHANNEL 4, CARRIER LEVEL



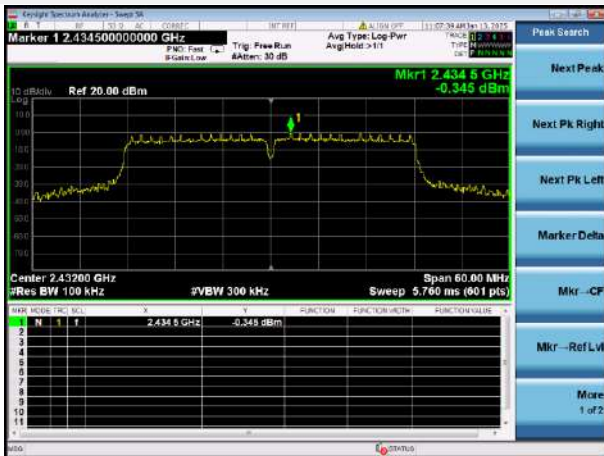
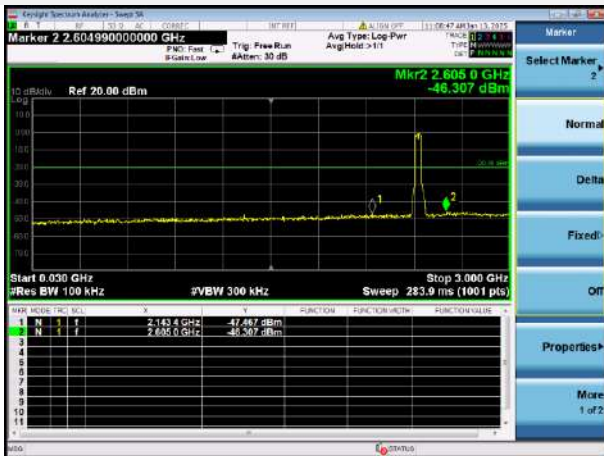
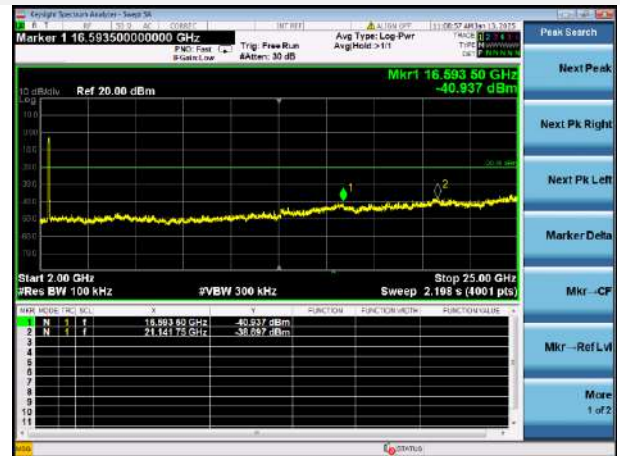
VHT-40 MHz CHANNEL 4, SPURIOUS 30 MHz ~ 3 GHz



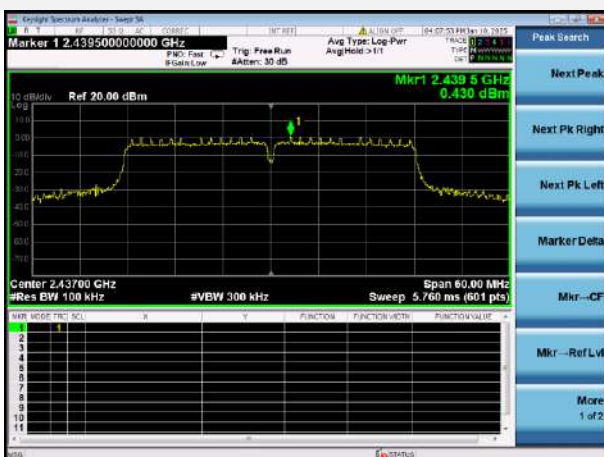
VHT-40 MHz CHANNEL 4, SPURIOUS 2 GHz ~ 25 GHz



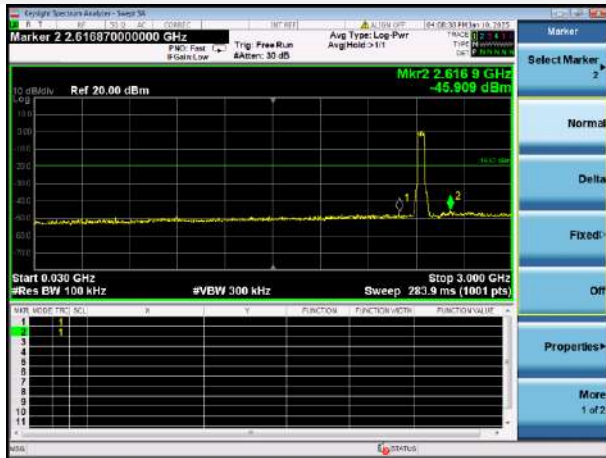
VHT-40 MHz CHANNEL 5, CARRIER LEVEL

VHT-40 MHz CHANNEL 5, SPURIOUS
30 MHz ~ 3 GHzVHT-40 MHz CHANNEL 5, SPURIOUS
2 GHz ~ 25 GHz

VHT-40 MHz MIDDLE CHANNEL CARRIER LEVEL



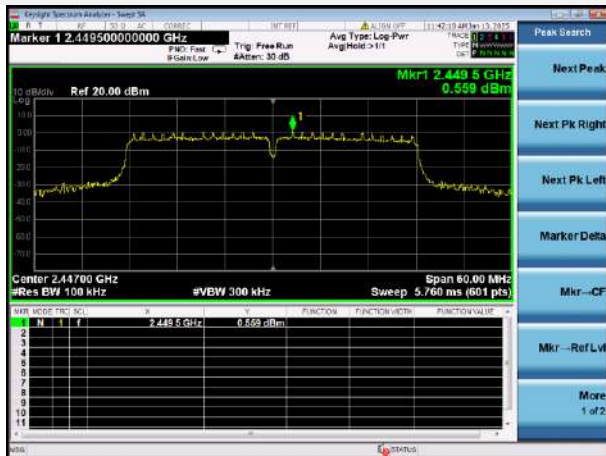
VHT-40 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



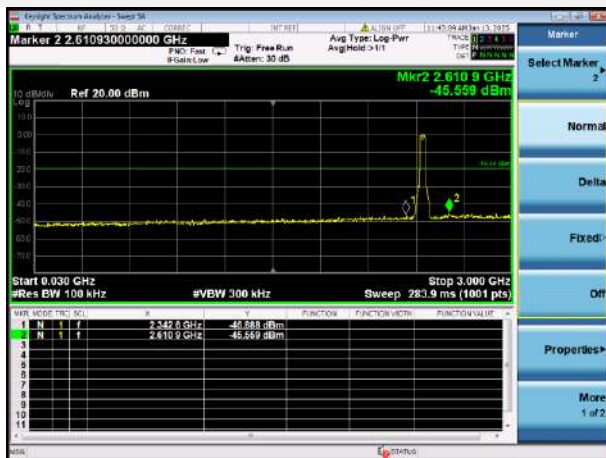
VHT-40 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



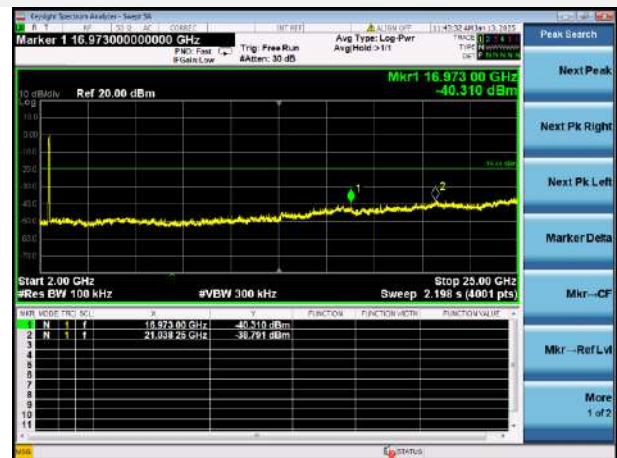
VHT-40 MHz CHANNEL 8, CARRIER LEVEL



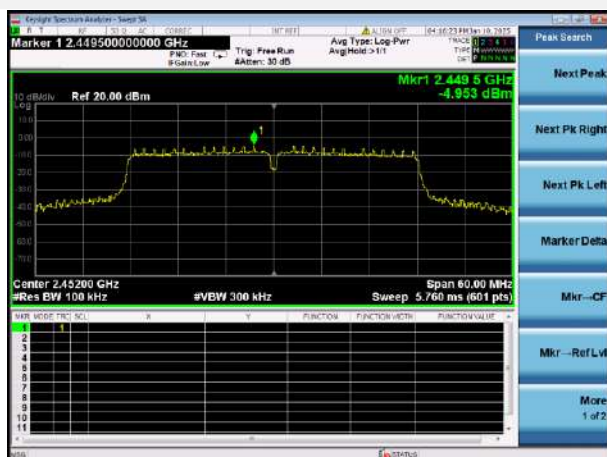
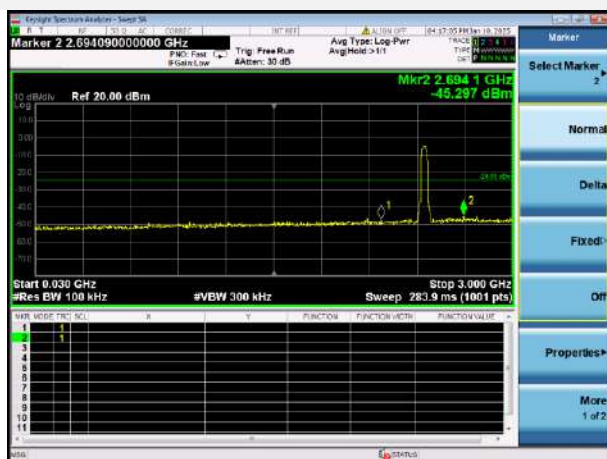
VHT-40 MHz CHANNEL 8, SPURIOUS 30 MHz ~ 3 GHz



VHT-40 MHz CHANNEL 8, SPURIOUS 2 GHz ~ 25 GHz



VHT-40 MHz HIGH CHANNEL CARRIER LEVEL

VHT-40 MHz HIGH CHANNEL, SPURIOUS
30 MHz ~ 3 GHzVHT-40 MHz HIGH CHANNEL, SPURIOUS
2 GHz ~ 25 GHz

A.4 Band Edge (Authorized-band band-edge)

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

Test Data

802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH1	-34.19	8.78	-11.22	Pass
CH11	-46.80	8.49	-11.51	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH1	-33.04	-2.05	-22.05	Pass
CH2	-24.35	7.99	-12.01	Pass
CH10	-41.56	7.69	-12.31	Pass
CH11	-44.76	-1.00	-21.00	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH1	-31.40	-2.06	-22.06	Pass
CH2	-25.64	7.23	-12.77	Pass
CH10	-45.02	7.05	-12.95	Pass
CH11	-44.85	-1.91	-21.91	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH3	-33.07	-5.99	-25.99	Pass
CH4	-27.27	3.14	-16.86	Pass
CH5	-33.13	0.25	-19.75	Pass
CH7	-42.37	0.08	-19.92	Pass
CH8	-33.02	3.03	-16.97	Pass
CH9	-40.99	-6.72	-26.72	Pass

VHT-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH1	-30.08	-1.48	-21.48	Pass
CH2	-27.83	4.53	-15.47	Pass
CH10	-40.77	4.15	-15.85	Pass
CH11	-46.33	-1.50	-21.50	Pass

VHT-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH3	-33.49	-4.21	-24.21	Pass
CH4	-34.78	-1.14	-21.14	Pass
CH5	-38.63	-0.35	-20.35	Pass
CH8	-38.08	0.56	-19.44	Pass
CH9	-41.59	-4.95	-24.95	Pass

Test Plots

802.11b LOW CHANNEL, CARRIER LEVEL



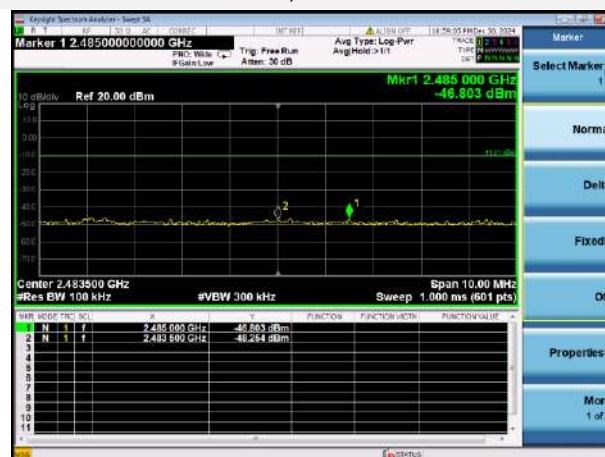
802.11b LOW CHANNEL, BAND EDGE



802.11b HIGH CHANNEL, CARRIER LEVEL



802.11b HIGH CHANNEL, BAND EDGE



802.11g LOW CHANNEL, CARRIER LEVEL



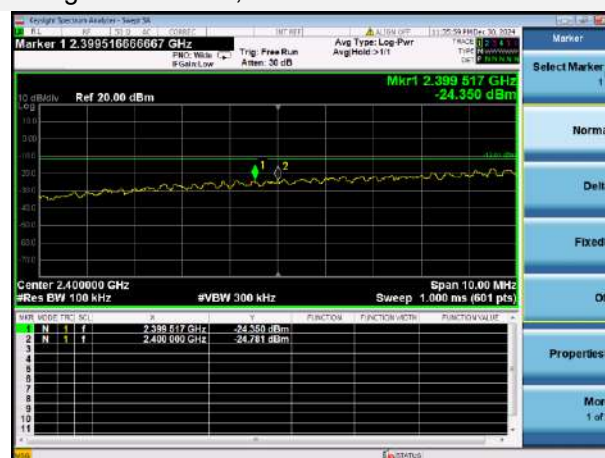
802.11g LOW CHANNEL, BAND EDGE



802.11g CHANNEL 2, CARRIER LEVEL



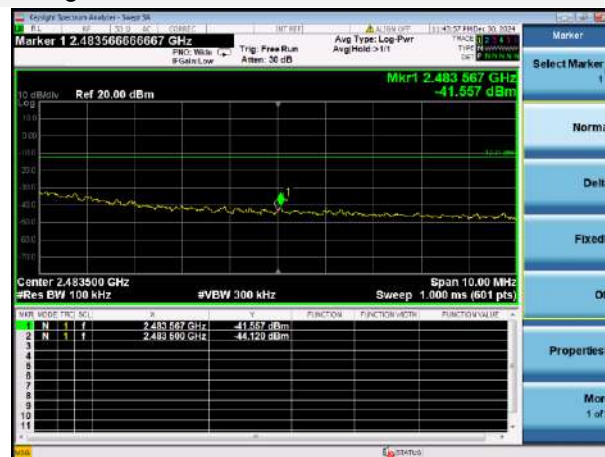
802.11g CHANNEL 2, BAND EDGE



802.11g CHANNEL 10, CARRIER LEVEL



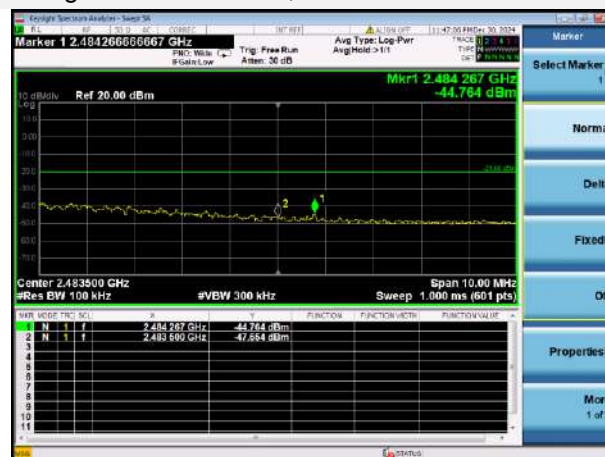
802.11g CHANNEL 10, BAND EDGE



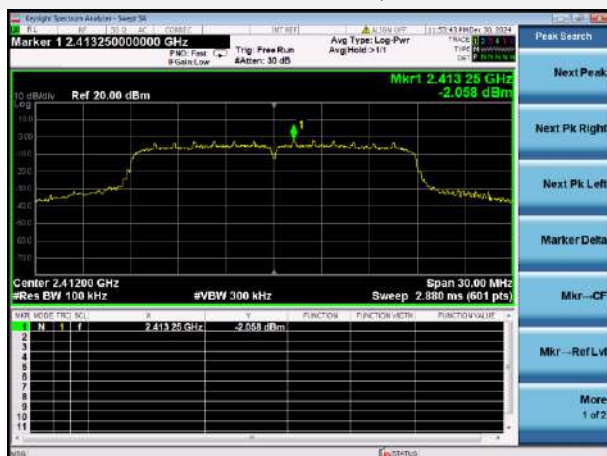
802.11g HIGH CHANNEL, CARRIER LEVEL



802.11g HIGH CHANNEL, BAND EDGE



802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



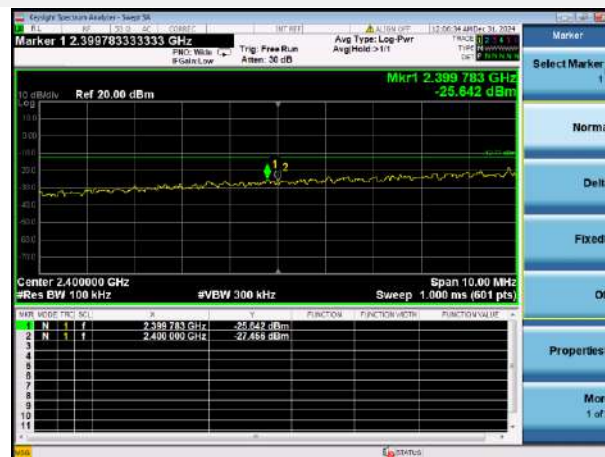
802.11n-20 MHz LOW CHANNEL, BAND EDGE



802.11n-20 MHz CHANNEL 2, CARRIER LEVEL



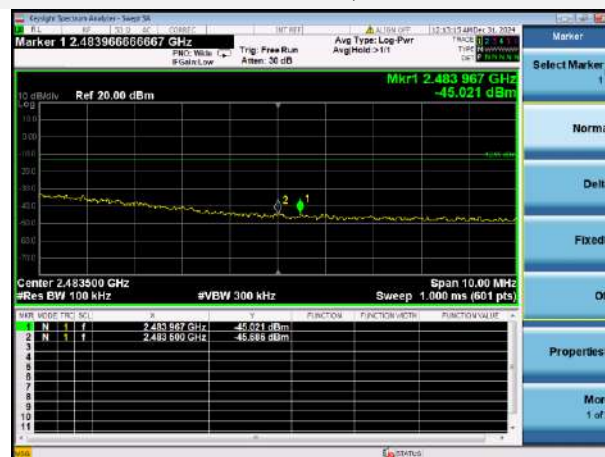
802.11n-20 MHz CHANNEL 2, BAND EDGE



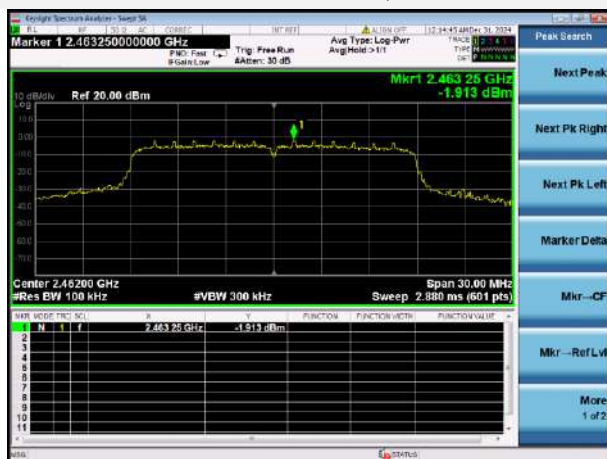
802.11n-20 MHz CHANNEL 10 CARRIER LEVEL



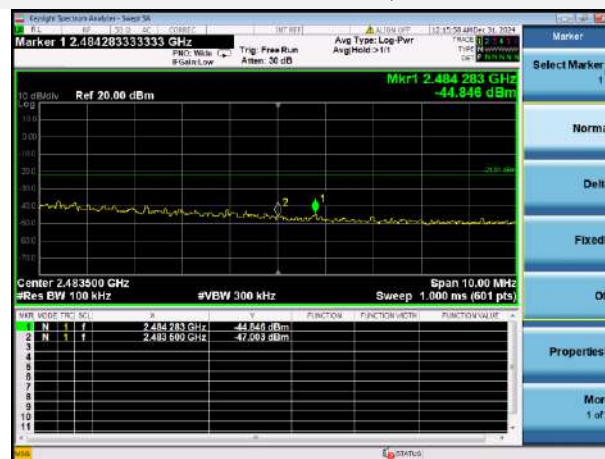
802.11n-20 MHz CHANNEL 10, BAND EDGE



802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



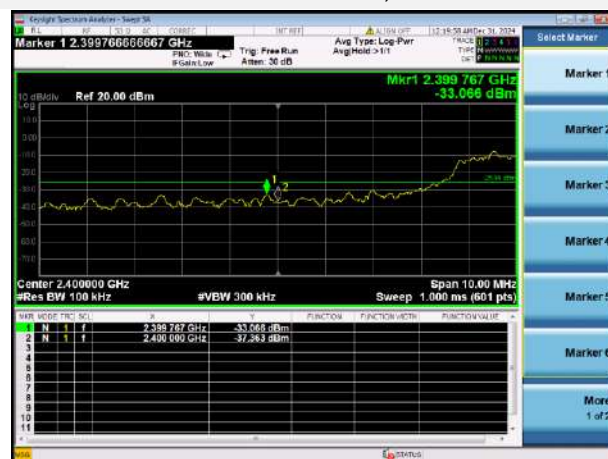
802.11n-20 MHz HIGH CHANNEL, BAND EDGE



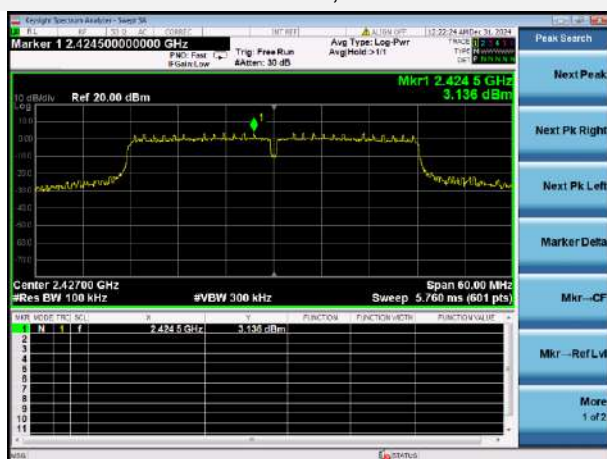
802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



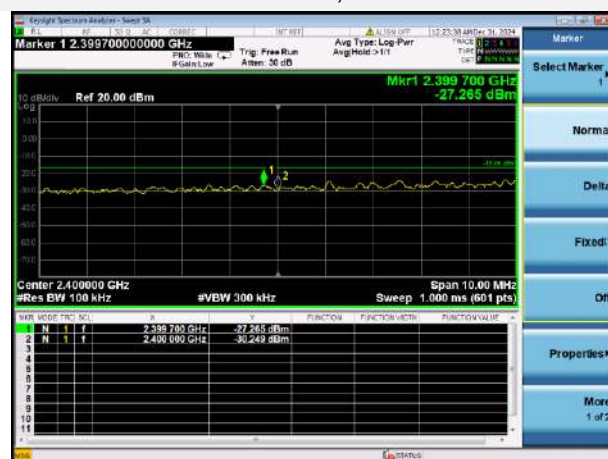
802.11n-40 MHz LOW CHANNEL, BAND EDGE



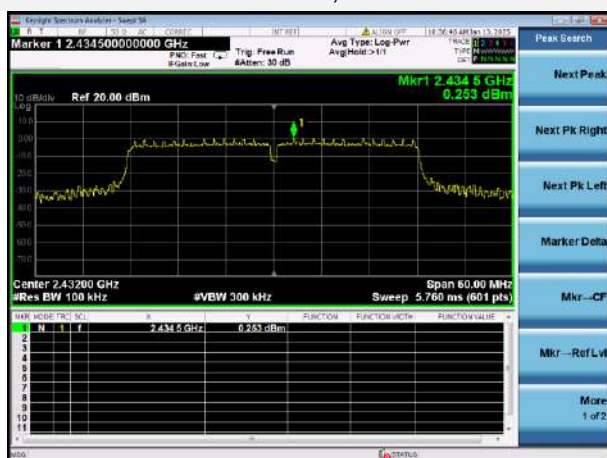
802.11n-40 MHz CHANNEL 4, CARRIER LEVEL



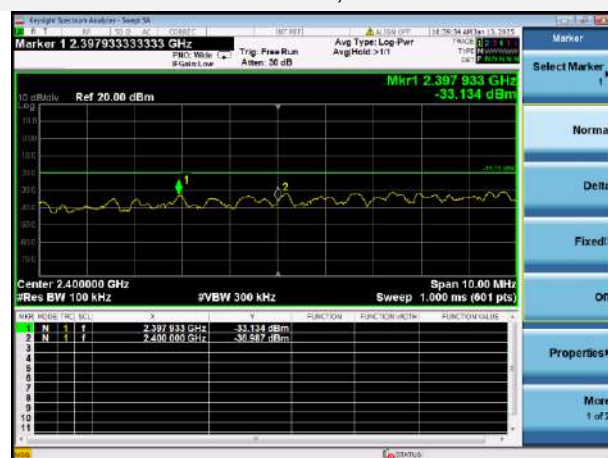
802.11n-40 MHz CHANNEL 4, BAND EDGE



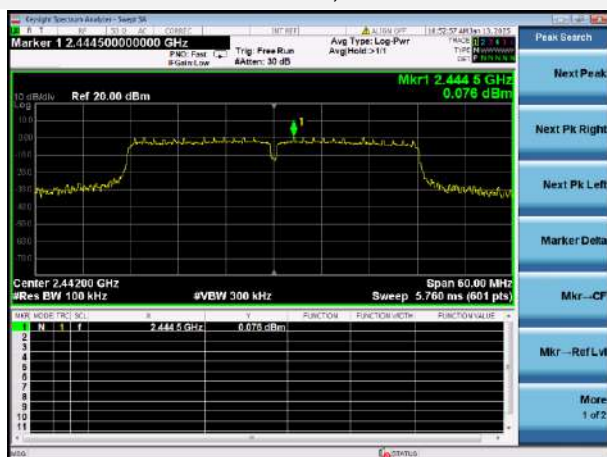
802.11n-40 MHz CHANNEL 5, CARRIER LEVEL



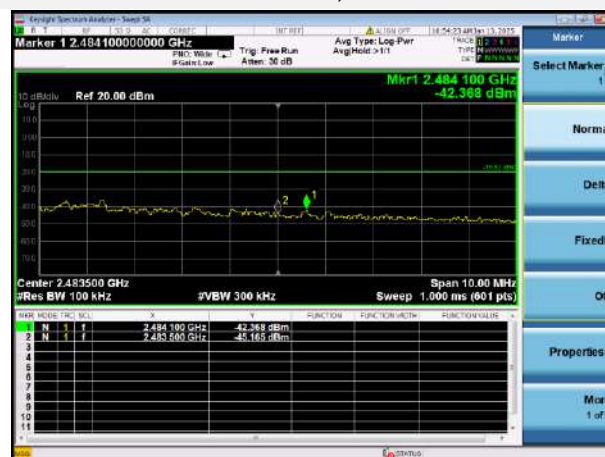
802.11n-40 MHz CHANNEL 5, BAND EDGE



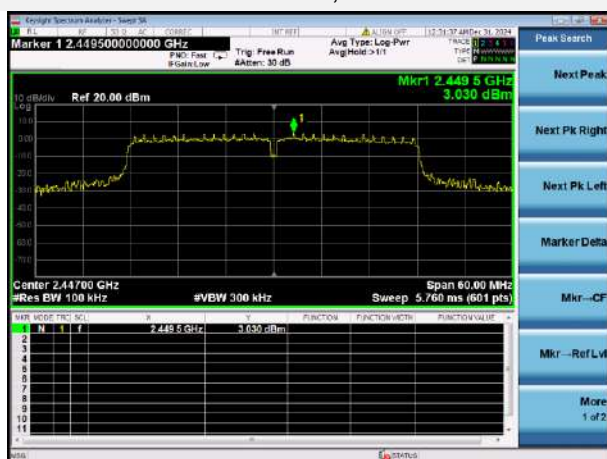
802.11n-40 MHz CHANNEL 7, CARRIER LEVEL



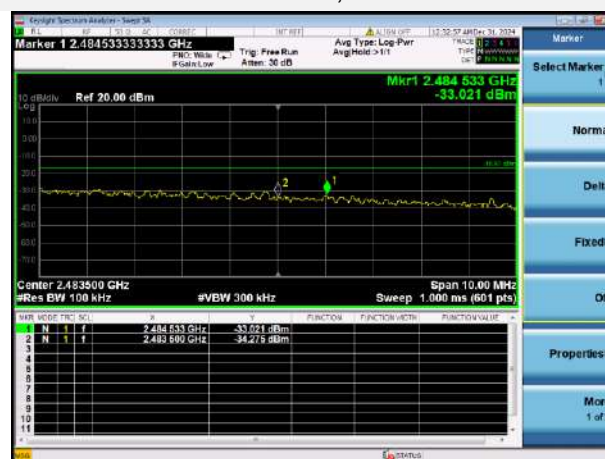
802.11n-40 MHz CHANNEL 7, BAND EDGE



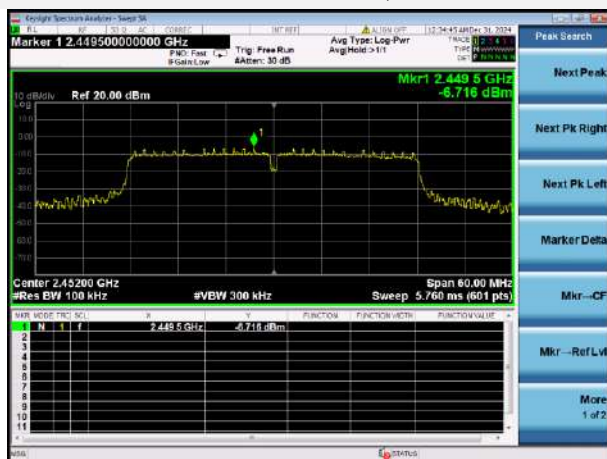
802.11n-40 MHz CHANNEL 8, CARRIER LEVEL



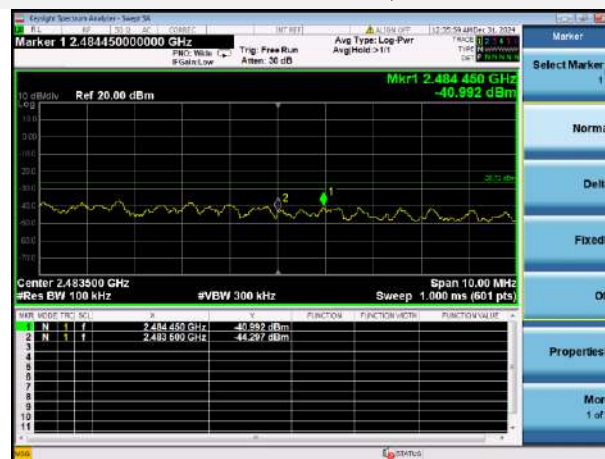
802.11n-40 MHz CHANNEL 8, BAND EDGE



802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, BAND EDGE



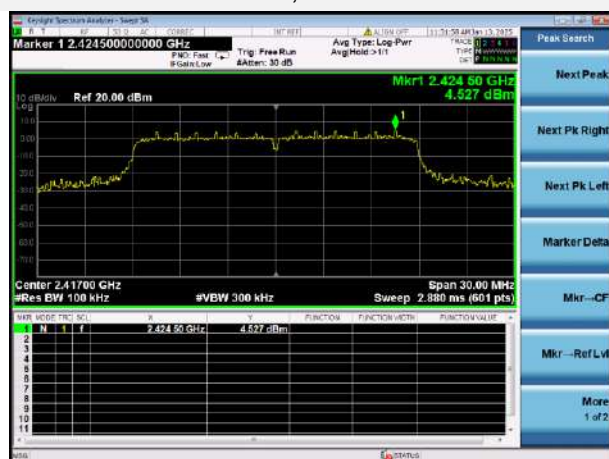
VHT-20 MHz LOW CHANNEL, CARRIER LEVEL



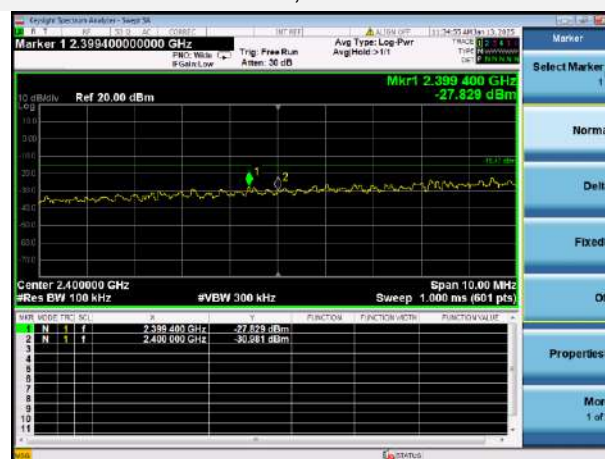
VHT-20 MHz LOW CHANNEL, BAND EDGE



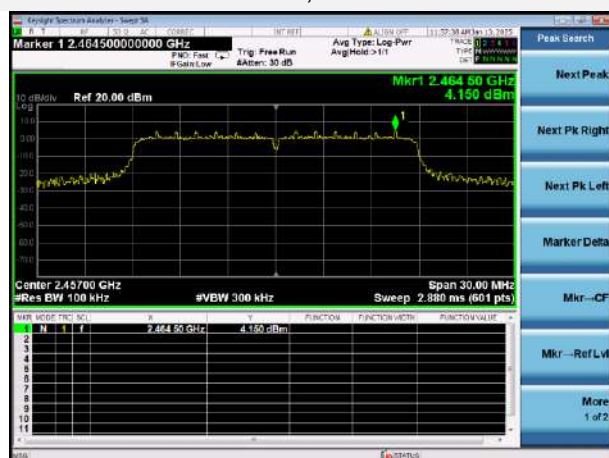
VHT-20 MHz CHANNEL 2, CARRIER LEVEL



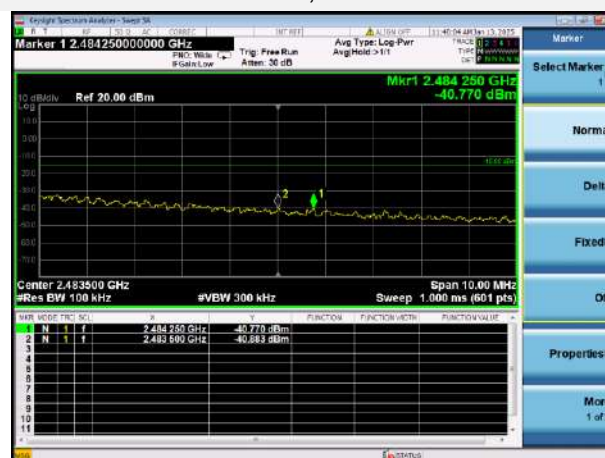
VHT-20 MHz CHANNEL 2, BAND EDGE



VHT-20 MHz CHANNEL 10, CARRIER LEVEL



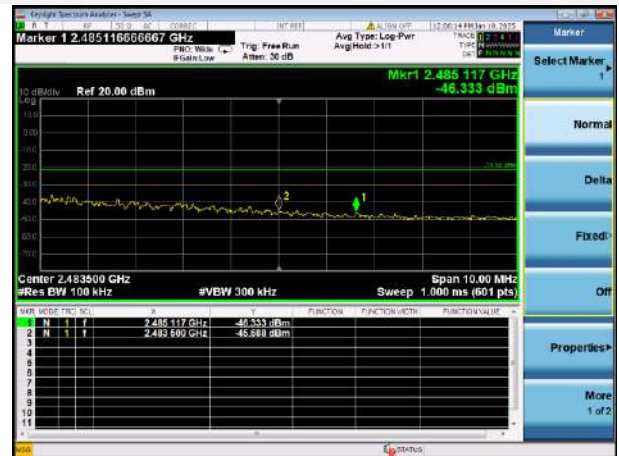
VHT-20 MHz CHANNEL 10, BAND EDGE



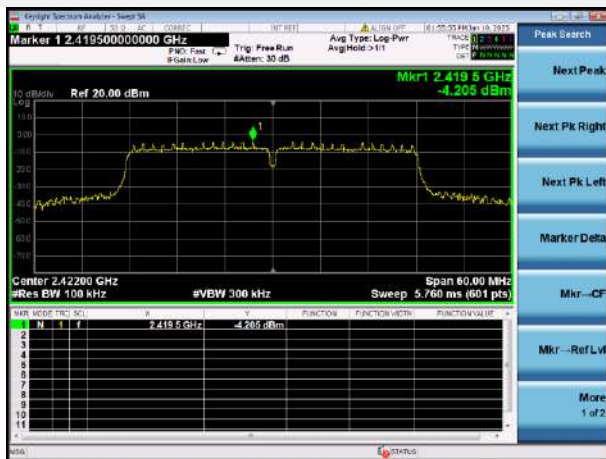
VHT-20 MHz HIGH CHANNEL, CARRIER LEVEL



VHT-20 MHz HIGH CHANNEL, BAND EDGE



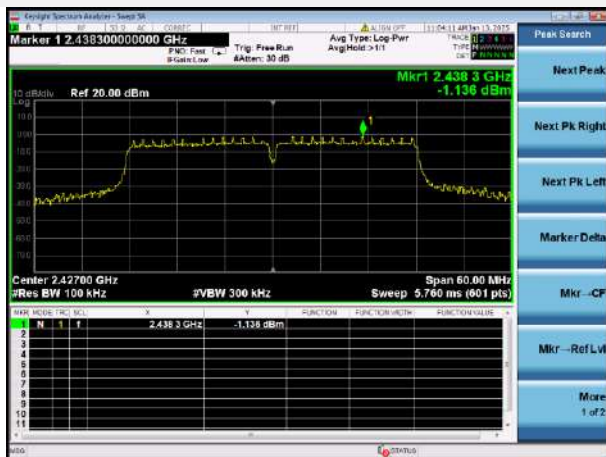
VHT-40 MHz LOW CHANNEL, CARRIER LEVEL



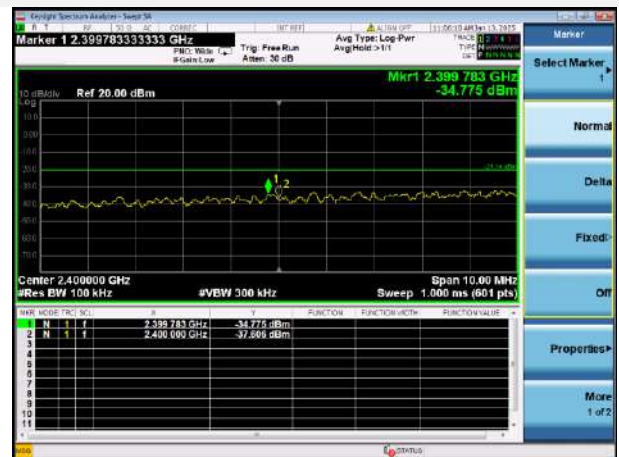
VHT-40 MHz LOW CHANNEL, BAND EDGE



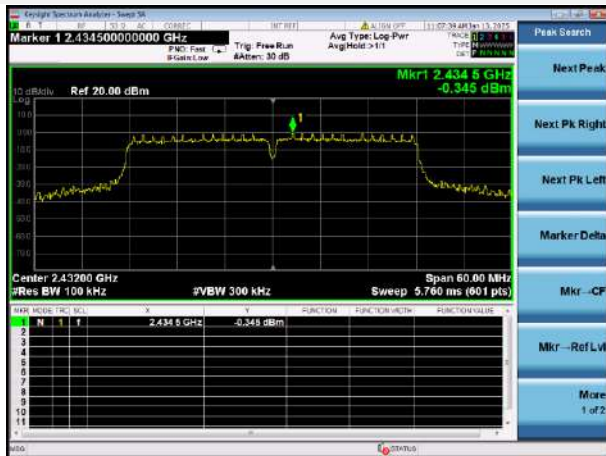
VHT-40 MHz CHANNEL 4, CARRIER LEVEL



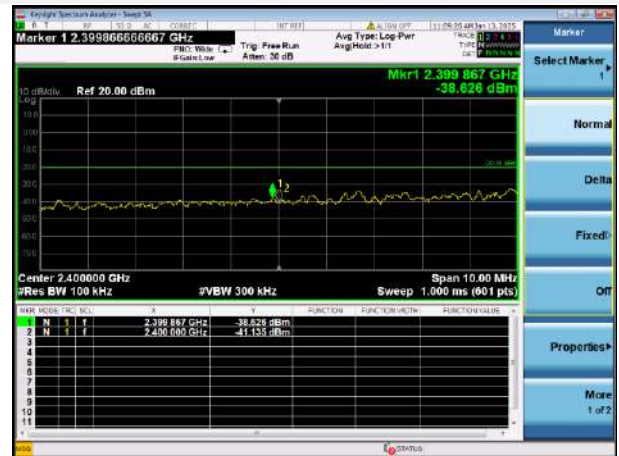
VHT-40 MHz CHANNEL 4, BAND EDGE



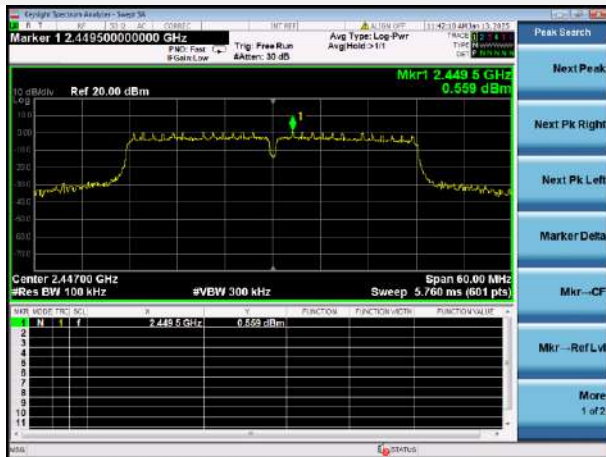
VHT-40 MHz CHANNEL 5, CARRIER LEVEL



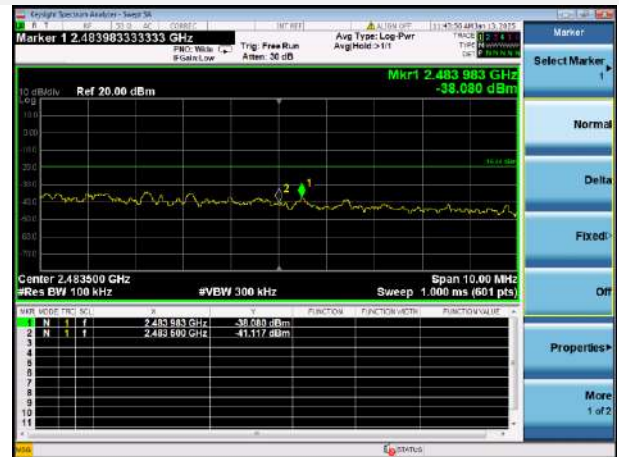
VHT-40 MHz CHANNEL 5, BAND EDGE



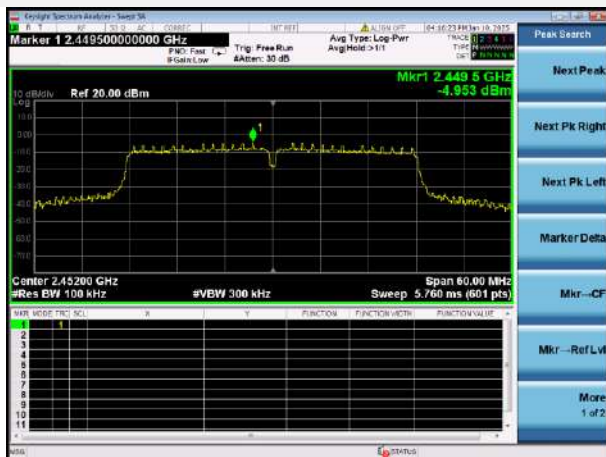
VHT-40 MHz CHANNEL 8, CARRIER LEVEL



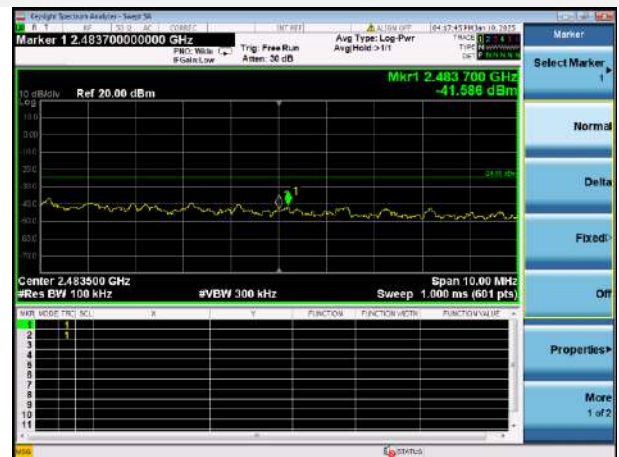
VHT-40 MHz CHANNEL 8, BAND EDGE



VHT-40 MHz HIGH CHANNEL, CARRIER LEVEL



VHT-40 MHz HIGH CHANNEL, BAND EDGE



A.5 Conducted Emissions

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

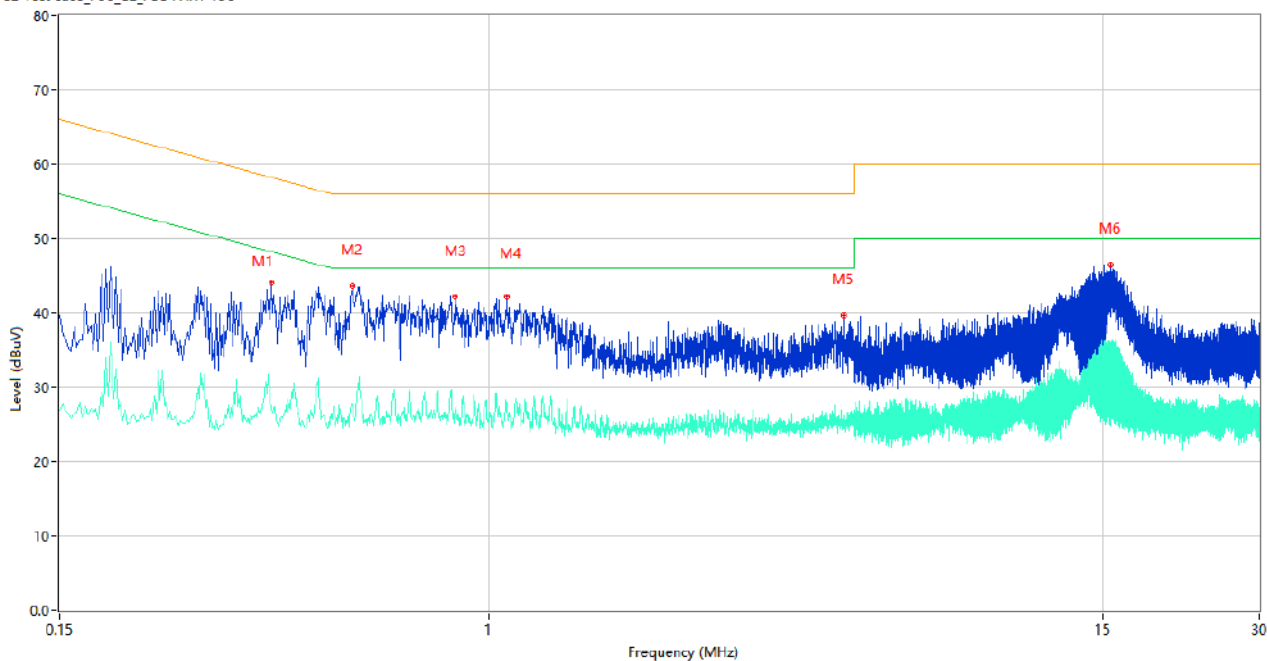
Note ²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Note ³: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

Test Data and Plots

PHASE L

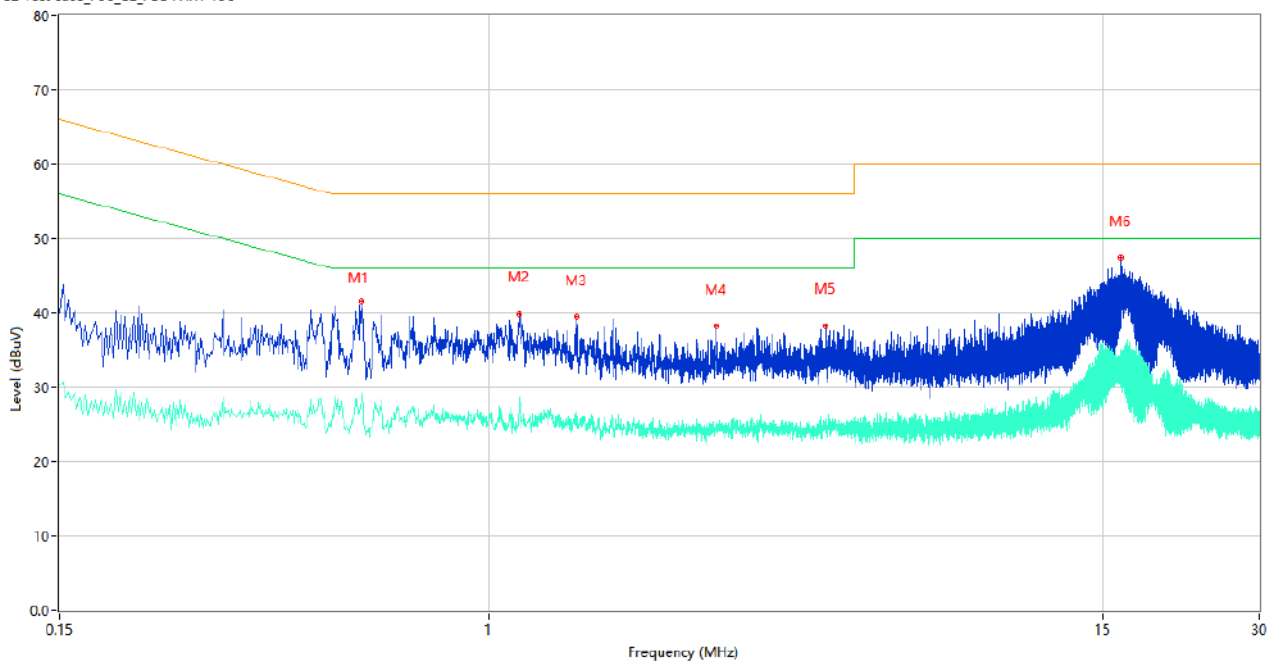
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.382	44.13	10.63	58.24	14.11	Peak	L	Pass
1**	0.382	27.38	10.63	48.24	20.86	AV	L	Pass
2	0.546	43.60	10.02	56.00	12.40	Peak	L	Pass
2**	0.546	27.74	10.02	46.00	18.26	AV	L	Pass
3	0.860	42.22	10.52	56.00	13.78	Peak	L	Pass
3**	0.860	26.48	10.52	46.00	19.52	AV	L	Pass
4	1.082	42.21	10.06	56.00	13.79	Peak	L	Pass
4**	1.082	27.55	10.06	46.00	18.45	AV	L	Pass
5	4.788	39.61	9.75	56.00	16.39	Peak	L	Pass
5**	4.788	25.66	9.75	46.00	20.34	AV	L	Pass
6	15.592	46.45	10.57	60.00	13.55	Peak	L	Pass
6**	15.592	27.40	10.57	50.00	22.60	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.568	41.57	10.08	56.00	14.43	Peak	N	Pass
1**	0.568	28.40	10.08	46.00	17.60	AV	N	Pass
2	1.144	39.88	10.37	56.00	16.12	Peak	N	Pass
2**	1.144	28.71	10.37	46.00	17.29	AV	N	Pass
3	1.474	39.47	10.16	56.00	16.53	Peak	N	Pass
3**	1.474	26.47	10.16	46.00	19.53	AV	N	Pass
4	2.732	38.25	10.13	56.00	17.75	Peak	N	Pass
4**	2.732	25.35	10.13	46.00	20.65	AV	N	Pass
5	4.420	38.28	10.23	56.00	17.72	Peak	N	Pass
5**	4.420	24.85	10.23	46.00	21.15	AV	N	Pass
6	16.260	47.41	10.74	60.00	12.59	Peak	N	Pass
6**	16.260	31.46	10.74	50.00	18.54	AV	N	Pass

A.6 Radiated Emission

Note¹: The symbol of “--” in the table which means not application.

Note²: 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.

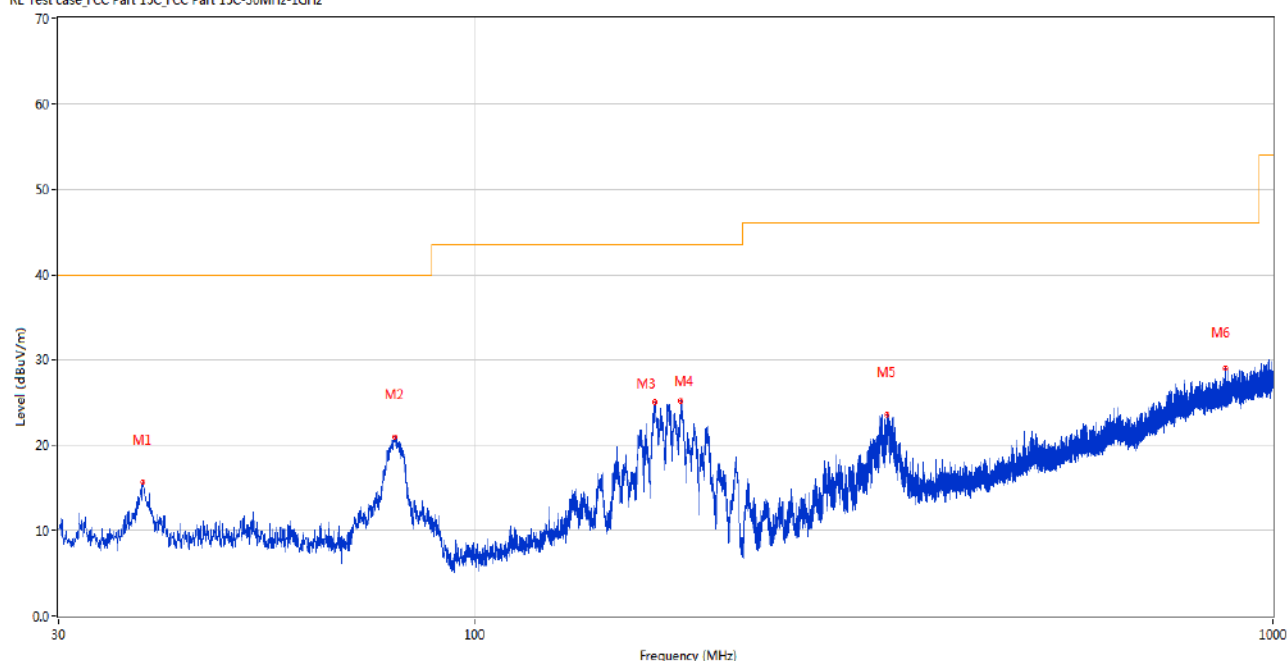
Note³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note⁴: 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

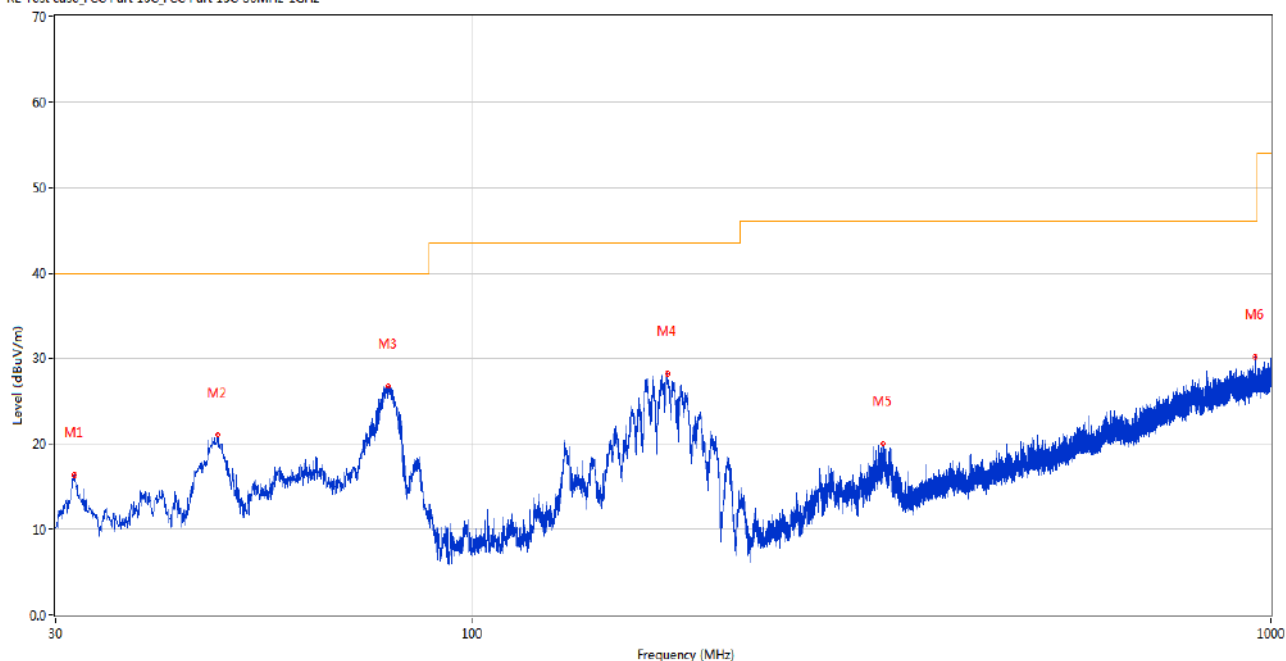
RE Test case_FCC Part 15C_FCC Part 15C-30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	38.294	15.64	-26.79	40.0	24.36	Peak	110.00	100	Horizontal	Pass
2	79.228	21.01	-30.62	40.0	18.99	Peak	170.00	200	Horizontal	Pass
3	167.643	25.10	-25.46	43.5	18.40	Peak	87.00	200	Horizontal	Pass
4	181.029	25.20	-27.63	43.5	18.30	Peak	84.00	200	Horizontal	Pass
5	328.566	23.64	-23.45	46.0	22.36	Peak	96.00	100	Horizontal	Pass
6	872.106	29.02	-11.54	46.0	16.98	Peak	310.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15C_FCC Part 15C-30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	31.649	16.29	-27.46	40.0	23.71	Peak	353.00	100	Vertical	Pass
2	47.800	21.03	-26.87	40.0	18.97	Peak	150.00	100	Vertical	Pass
3	78.403	26.80	-30.46	40.0	13.20	Peak	175.00	100	Vertical	Pass
4	175.161	28.18	-26.43	43.5	15.32	Peak	28.00	100	Vertical	Pass
5	326.093	20.08	-23.69	46.0	25.92	Peak	168.00	200	Vertical	Pass
6	956.253	30.21	-10.08	46.0	15.79	Peak	94.00	200	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.

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1558.600	42.08	74.0	31.92	Peak	15.00	100	Horizontal	Pass
1**	1558.600	32.42	54.0	21.58	AV	15.00	100	Horizontal	Pass
2	2413.600	105.83	74.0	-31.83	Peak	8.00	150	Horizontal	N/A
2**	2413.600	102.93	54.0	-48.93	AV	8.00	150	Horizontal	N/A
3	4759.800	51.92	74.0	22.08	Peak	314.00	100	Horizontal	Pass
3**	4759.800	41.08	54.0	12.92	AV	314.00	100	Horizontal	Pass
4	6992.200	55.26	74.0	18.74	Peak	326.00	100	Horizontal	Pass
4**	6992.200	46.97	54.0	7.03	AV	326.00	100	Horizontal	Pass
5	11825.401	52.92	74.0	21.08	Peak	209.00	200	Horizontal	Pass
5**	11825.401	42.90	54.0	11.10	AV	209.00	200	Horizontal	Pass
6	17443.762	55.79	74.0	18.21	Peak	212.00	300	Horizontal	Pass
6**	17443.762	46.93	54.0	7.07	AV	212.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1290.000	42.52	74.0	31.48	Peak	68.00	100	Vertical	Pass
1**	1290.000	32.05	54.0	21.95	AV	68.00	100	Vertical	Pass
2	2413.500	95.61	74.0	-21.61	Peak	160.00	100	Vertical	N/A
2**	2413.500	92.52	54.0	-38.52	AV	160.00	100	Vertical	N/A
3	4981.800	52.05	74.0	21.95	Peak	359.00	200	Vertical	Pass
3**	4981.800	43.66	54.0	10.34	AV	359.00	200	Vertical	Pass
4	6785.600	55.83	74.0	18.17	Peak	244.00	300	Vertical	Pass
4**	6785.600	45.44	54.0	8.56	AV	244.00	300	Vertical	Pass
5	11335.788	52.46	74.0	21.54	Peak	329.00	400	Vertical	Pass
5**	11335.788	43.03	54.0	10.97	AV	329.00	400	Vertical	Pass
6	17394.676	55.84	74.0	18.16	Peak	270.00	400	Vertical	Pass
6**	17394.676	46.25	54.0	7.75	AV	270.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b Channel 6

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1497.300	41.93	74.0	32.07	Peak	164.00	300	Horizontal	Pass
1**	1497.300	32.50	54.0	21.50	AV	164.00	300	Horizontal	Pass
2	2435.400	104.63	74.0	-30.63	Peak	11.00	100	Horizontal	N/A
2**	2435.400	101.77	54.0	-47.77	AV	11.00	100	Horizontal	N/A
3	4978.600	52.42	74.0	21.58	Peak	65.00	100	Horizontal	Pass
3**	4978.600	44.92	54.0	9.08	AV	65.00	100	Horizontal	Pass
4	6610.400	55.54	74.0	18.46	Peak	8.00	300	Horizontal	Pass
4**	6610.400	46.08	54.0	7.92	AV	8.00	300	Horizontal	Pass
5	12810.637	52.24	74.0	21.76	Peak	232.00	400	Horizontal	Pass
5**	12810.637	42.16	54.0	11.84	AV	232.00	400	Horizontal	Pass
6	15815.999	55.42	74.0	18.58	Peak	333.00	300	Horizontal	Pass
6**	15815.999	46.04	54.0	7.96	AV	333.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Channel 6

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1503.100	42.49	74.0	31.51	Peak	128.00	300	Vertical	Pass
1**	1503.100	32.60	54.0	21.40	AV	128.00	300	Vertical	Pass
2	2435.500	93.43	74.0	-19.43	Peak	135.00	100	Vertical	N/A
2**	2435.500	90.42	54.0	-36.42	AV	135.00	100	Vertical	N/A
3	4979.800	53.04	74.0	20.96	Peak	76.00	150	Vertical	Pass
3**	4979.800	42.57	54.0	11.43	AV	76.00	150	Vertical	Pass
4	6801.200	55.63	74.0	18.37	Peak	360.00	200	Vertical	Pass
4**	6801.200	46.14	54.0	7.86	AV	360.00	200	Vertical	Pass
5	12783.600	52.30	74.0	21.70	Peak	272.00	200	Vertical	Pass
5**	12783.600	43.64	54.0	10.36	AV	272.00	200	Vertical	Pass
6	17462.137	55.93	74.0	18.07	Peak	194.00	200	Vertical	Pass
6**	17462.137	47.48	54.0	6.52	AV	194.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b Channel 11

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1484.600	42.27	74.0	31.73	Peak	93.00	400	Horizontal	Pass
1**	1484.600	32.56	54.0	21.44	AV	93.00	400	Horizontal	Pass
2	2460.300	105.65	74.0	-31.65	Peak	66.00	200	Horizontal	N/A
2**	2460.300	102.69	54.0	-48.69	AV	66.00	200	Horizontal	N/A
3	2999.100	50.98	74.0	23.02	Peak	357.00	150	Horizontal	Pass
3**	2999.100	41.91	54.0	12.09	AV	357.00	150	Horizontal	Pass
4	6858.600	55.32	74.0	18.68	Peak	20.00	100	Horizontal	Pass
4**	6858.600	45.94	54.0	8.06	AV	20.00	100	Horizontal	Pass
5	12798.562	51.75	74.0	22.25	Peak	293.00	200	Horizontal	Pass
5**	12798.562	42.48	54.0	11.52	AV	293.00	200	Horizontal	Pass
6	17436.938	55.37	74.0	18.63	Peak	195.00	200	Horizontal	Pass
6**	17436.938	46.39	54.0	7.61	AV	195.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Channel 11

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1500.500	42.31	74.0	31.69	Peak	243.00	100	Vertical	Pass
1**	1500.500	32.63	54.0	21.37	AV	243.00	100	Vertical	Pass
2	2460.500	95.86	74.0	-21.86	Peak	130.00	200	Vertical	N/A
2**	2460.500	92.86	54.0	-38.86	AV	130.00	200	Vertical	N/A
3	4980.600	52.28	74.0	21.72	Peak	20.00	150	Vertical	Pass
3**	4980.600	44.23	54.0	9.77	AV	20.00	150	Vertical	Pass
4	6978.600	56.10	74.0	17.90	Peak	234.00	300	Vertical	Pass
4**	6978.600	46.85	54.0	7.15	AV	234.00	300	Vertical	Pass
5	12080.125	52.26	74.0	21.74	Peak	242.00	100	Vertical	Pass
5**	12080.125	42.12	54.0	11.88	AV	242.00	100	Vertical	Pass
6	17443.762	56.03	74.0	17.97	Peak	116.00	300	Vertical	Pass
6**	17443.762	46.41	54.0	7.59	AV	116.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Channel 11

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1418.100	42.07	74.0	31.93	Peak	76.00	300	Horizontal	Pass
1**	1418.100	32.10	54.0	21.90	AV	76.00	300	Horizontal	Pass
2	2414.200	99.17	74.0	-25.17	Peak	69.00	100	Horizontal	N/A
2**	2414.200	92.56	54.0	-38.56	AV	69.00	100	Horizontal	N/A
3	4999.400	52.07	74.0	21.93	Peak	8.00	150	Horizontal	Pass
3**	4999.400	43.05	54.0	10.95	AV	8.00	150	Horizontal	Pass
4	6979.600	56.16	74.0	17.84	Peak	78.00	200	Horizontal	Pass
4**	6979.600	46.46	54.0	7.54	AV	78.00	200	Horizontal	Pass
5	11529.562	52.47	74.0	21.53	Peak	345.00	100	Horizontal	Pass
5**	11529.562	42.04	54.0	11.96	AV	345.00	100	Horizontal	Pass
6	16881.488	55.70	74.0	18.30	Peak	159.00	100	Horizontal	Pass
6**	16881.488	46.40	54.0	7.60	AV	159.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1497.400	42.15	74.0	31.85	Peak	235.00	400	Vertical	Pass
1**	1497.400	32.73	54.0	21.27	AV	235.00	400	Vertical	Pass
2	2415.600	88.78	74.0	-14.78	Peak	155.00	100	Vertical	N/A
2**	2415.600	80.95	54.0	-26.95	AV	155.00	100	Vertical	N/A
3	2939.000	51.90	74.0	22.10	Peak	115.00	100	Vertical	Pass
3**	2939.000	41.38	54.0	12.62	AV	115.00	100	Vertical	Pass
4	6978.000	55.73	74.0	18.27	Peak	66.00	300	Vertical	Pass
4**	6978.000	46.18	54.0	7.82	AV	66.00	300	Vertical	Pass
5	11322.849	52.46	74.0	21.54	Peak	97.00	300	Vertical	Pass
5**	11322.849	42.88	54.0	11.12	AV	97.00	300	Vertical	Pass
6	17415.676	56.62	74.0	17.38	Peak	38.00	100	Vertical	Pass
6**	17415.676	46.39	54.0	7.61	AV	38.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Channel 2

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1528.200	42.25	74.0	31.75	Peak	218.00	300	Horizontal	Pass
1**	1528.200	32.16	54.0	21.84	AV	218.00	300	Horizontal	Pass
2	2419.400	107.39	74.0	-33.39	Peak	12.00	150	Horizontal	N/A
2**	2419.400	100.24	54.0	-46.24	AV	12.00	150	Horizontal	N/A
3	4653.400	52.16	74.0	21.84	Peak	265.00	150	Horizontal	Pass
3**	4653.400	42.79	54.0	11.21	AV	265.00	150	Horizontal	Pass
4	6978.000	55.52	74.0	18.48	Peak	69.00	200	Horizontal	Pass
4**	6978.000	46.66	54.0	7.34	AV	69.00	200	Horizontal	Pass
5	11570.099	52.27	74.0	21.73	Peak	205.00	200	Horizontal	Pass
5**	11570.099	41.53	54.0	12.47	AV	205.00	200	Horizontal	Pass
6	17423.813	56.70	74.0	17.30	Peak	263.00	300	Horizontal	Pass
6**	17423.813	46.64	54.0	7.36	AV	263.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Channel 2

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1512.000	41.98	74.0	32.02	Peak	142.00	300	Vertical	Pass
1**	1512.000	33.07	54.0	20.93	AV	142.00	300	Vertical	Pass
2	2420.600	97.73	74.0	-23.73	Peak	156.00	150	Vertical	N/A
2**	2420.600	89.45	54.0	-35.45	AV	156.00	150	Vertical	N/A
3	4969.600	52.69	74.0	21.31	Peak	55.00	200	Vertical	Pass
3**	4969.600	43.20	54.0	10.80	AV	55.00	200	Vertical	Pass
4	6865.600	55.25	74.0	18.75	Peak	339.00	400	Vertical	Pass
4**	6865.600	44.76	54.0	9.24	AV	339.00	400	Vertical	Pass
5	11945.287	52.34	74.0	21.66	Peak	29.00	100	Vertical	Pass
5**	11945.287	43.21	54.0	10.79	AV	29.00	100	Vertical	Pass
6	15669.526	56.53	74.0	17.47	Peak	117.00	200	Vertical	Pass
6**	15669.526	45.82	54.0	8.18	AV	117.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Channel 6

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1485.600	42.28	74.0	31.72	Peak	31.00	400	Horizontal	Pass
1**	1485.600	32.43	54.0	21.57	AV	31.00	400	Horizontal	Pass
2	2433.800	106.68	74.0	-32.68	Peak	12.00	150	Horizontal	N/A
2**	2433.800	99.22	54.0	-45.22	AV	12.00	150	Horizontal	N/A
3	2989.100	51.40	74.0	22.60	Peak	360.00	150	Horizontal	Pass
3**	2989.100	41.74	54.0	12.26	AV	360.00	150	Horizontal	Pass
4	6975.400	55.86	74.0	18.14	Peak	122.00	100	Horizontal	Pass
4**	6975.400	46.14	54.0	7.86	AV	122.00	100	Horizontal	Pass
5	11931.487	53.04	74.0	20.96	Peak	276.00	100	Horizontal	Pass
5**	11931.487	43.24	54.0	10.76	AV	276.00	100	Horizontal	Pass
6	17407.801	56.66	74.0	17.34	Peak	360.00	300	Horizontal	Pass
6**	17407.801	46.31	54.0	7.69	AV	360.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Channel 6

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1458.000	42.11	74.0	31.89	Peak	298.00	200	Vertical	Pass
1**	1458.000	32.34	54.0	21.66	AV	298.00	200	Vertical	Pass
2	2440.600	95.96	74.0	-21.96	Peak	360.00	100	Vertical	N/A
2**	2440.600	87.69	54.0	-33.69	AV	360.00	100	Vertical	N/A
3	4796.800	52.02	74.0	21.98	Peak	331.00	150	Vertical	Pass
3**	4796.800	41.94	54.0	12.06	AV	331.00	150	Vertical	Pass
4	6971.600	55.34	74.0	18.66	Peak	19.00	200	Vertical	Pass
4**	6971.600	46.33	54.0	7.67	AV	19.00	200	Vertical	Pass
5	11949.600	52.71	74.0	21.29	Peak	32.00	200	Vertical	Pass
5**	11949.600	43.39	54.0	10.61	AV	32.00	200	Vertical	Pass
6	16994.887	55.77	74.0	18.23	Peak	36.00	400	Vertical	Pass
6**	16994.887	46.03	54.0	7.97	AV	36.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Channel 10

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1437.700	42.30	74.0	31.70	Peak	183.00	100	Horizontal	Pass
1**	1437.700	32.81	54.0	21.19	AV	183.00	100	Horizontal	Pass
2	2458.600	107.56	74.0	-33.56	Peak	12.00	150	Horizontal	N/A
2**	2458.600	100.59	54.0	-46.59	AV	12.00	150	Horizontal	N/A
3	2999.500	50.75	74.0	23.25	Peak	216.00	150	Horizontal	Pass
3**	2999.500	43.07	54.0	10.93	AV	216.00	150	Horizontal	Pass
4	5966.000	55.30	74.0	18.70	Peak	64.00	400	Horizontal	Pass
4**	5966.000	46.12	54.0	7.88	AV	64.00	400	Horizontal	Pass
5	11952.763	52.13	74.0	21.87	Peak	292.00	400	Horizontal	Pass
5**	11952.763	43.10	54.0	10.90	AV	292.00	400	Horizontal	Pass
6	17373.676	55.85	74.0	18.15	Peak	240.00	100	Horizontal	Pass
6**	17373.676	45.17	54.0	8.83	AV	240.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Channel 10

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1481.300	42.00	74.0	32.00	Peak	134.00	200	Vertical	Pass
1**	1481.300	32.77	54.0	21.23	AV	134.00	200	Vertical	Pass
2	2456.000	97.50	74.0	-23.50	Peak	134.00	150	Vertical	N/A
2**	2456.000	90.18	54.0	-36.18	AV	134.00	150	Vertical	N/A
3	2990.000	51.03	74.0	22.97	Peak	360.00	150	Vertical	Pass
3**	2990.000	42.11	54.0	11.89	AV	360.00	150	Vertical	Pass
4	6980.400	55.46	74.0	18.54	Peak	180.00	400	Vertical	Pass
4**	6980.400	47.06	54.0	6.94	AV	180.00	400	Vertical	Pass
5	12492.112	52.36	74.0	21.64	Peak	346.00	200	Vertical	Pass
5**	12492.112	43.22	54.0	10.78	AV	346.00	200	Vertical	Pass
6	17441.401	56.98	74.0	17.02	Peak	219.00	400	Vertical	Pass
6**	17441.401	47.75	54.0	6.25	AV	219.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Channel 11

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1489.000	42.39	74.0	31.61	Peak	360.00	400	Horizontal	Pass
1**	1489.000	32.74	54.0	21.26	AV	360.00	400	Horizontal	Pass
2	2458.600	101.16	74.0	-27.16	Peak	73.00	200	Horizontal	N/A
2**	2458.600	93.50	54.0	-39.50	AV	73.00	200	Horizontal	N/A
3	2984.500	51.40	74.0	22.60	Peak	360.00	150	Horizontal	Pass
3**	2984.500	42.68	54.0	11.32	AV	360.00	150	Horizontal	Pass
4	6996.000	55.81	74.0	18.19	Peak	315.00	300	Horizontal	Pass
4**	6996.000	45.88	54.0	8.12	AV	315.00	300	Horizontal	Pass
5	11911.937	52.10	74.0	21.90	Peak	184.00	400	Horizontal	Pass
5**	11911.937	42.18	54.0	11.82	AV	184.00	400	Horizontal	Pass
6	16062.488	55.96	74.0	18.04	Peak	77.00	100	Horizontal	Pass
6**	16062.488	44.80	54.0	9.20	AV	77.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Channel 11

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1585.800	42.47	74.0	31.53	Peak	213.00	200	Vertical	Pass
1**	1585.800	32.43	54.0	21.57	AV	213.00	200	Vertical	Pass
2	2459.000	90.32	74.0	-16.32	Peak	132.00	200	Vertical	N/A
2**	2459.000	83.06	54.0	-29.06	AV	132.00	200	Vertical	N/A
3	4992.800	52.18	74.0	21.82	Peak	0.00	100	Vertical	Pass
3**	4992.800	42.60	54.0	11.40	AV	0.00	100	Vertical	Pass
4	6987.600	55.35	74.0	18.65	Peak	132.00	200	Vertical	Pass
4**	6987.600	45.42	54.0	8.58	AV	132.00	200	Vertical	Pass
5	12578.938	52.00	74.0	22.00	Peak	257.00	100	Vertical	Pass
5**	12578.938	43.09	54.0	10.91	AV	257.00	100	Vertical	Pass
6	16591.426	55.70	74.0	18.30	Peak	360.00	300	Vertical	Pass
6**	16591.426	45.43	54.0	8.57	AV	360.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1512.400	41.92	74.0	32.08	Peak	136.00	300	Horizontal	Pass
1**	1512.400	32.78	54.0	21.22	AV	136.00	300	Horizontal	Pass
2	2415.400	99.84	74.0	-25.84	Peak	70.00	200	Horizontal	N/A
2**	2415.400	91.94	54.0	-37.94	AV	70.00	200	Horizontal	N/A
3	4982.400	52.37	74.0	21.63	Peak	78.00	150	Horizontal	Pass
3**	4982.400	43.38	54.0	10.62	AV	78.00	150	Horizontal	Pass
4	6977.800	55.69	74.0	18.31	Peak	30.00	300	Horizontal	Pass
4**	6977.800	47.35	54.0	6.65	AV	30.00	300	Horizontal	Pass
5	12783.337	52.33	74.0	21.67	Peak	17.00	300	Horizontal	Pass
5**	12783.337	43.23	54.0	10.77	AV	17.00	300	Horizontal	Pass
6	17414.363	56.03	74.0	17.97	Peak	79.00	200	Horizontal	Pass
6**	17414.363	47.77	54.0	6.23	AV	79.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1479.000	42.55	74.0	31.45	Peak	27.00	400	Vertical	Pass
1**	1479.000	33.39	54.0	20.61	AV	27.00	400	Vertical	Pass
2	2414.000	89.66	74.0	-15.66	Peak	154.00	100	Vertical	N/A
2**	2414.000	81.31	54.0	-27.31	AV	154.00	100	Vertical	N/A
3	4995.600	51.62	74.0	22.38	Peak	198.00	200	Vertical	Pass
3**	4995.600	43.32	54.0	10.68	AV	198.00	200	Vertical	Pass
4	6978.600	55.16	74.0	18.84	Peak	349.00	300	Vertical	Pass
4**	6978.600	47.16	54.0	6.84	AV	349.00	300	Vertical	Pass
5	12800.663	52.34	74.0	21.66	Peak	343.00	400	Vertical	Pass
5**	12800.663	42.36	54.0	11.64	AV	343.00	400	Vertical	Pass
6	16880.699	55.50	74.0	18.50	Peak	119.00	100	Vertical	Pass
6**	16880.699	45.58	54.0	8.42	AV	119.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Channel 2

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1404.200	42.50	74.0	31.50	Peak	152.00	400	Horizontal	Pass
1**	1404.200	32.86	54.0	21.14	AV	152.00	400	Horizontal	Pass
2	2414.500	107.59	74.0	-33.59	Peak	10.00	200	Horizontal	N/A
2**	2414.500	100.52	54.0	-46.52	AV	10.00	200	Horizontal	N/A
3	4999.600	52.22	74.0	21.78	Peak	126.00	200	Horizontal	Pass
3**	4999.600	42.59	54.0	11.41	AV	126.00	200	Horizontal	Pass
4	6974.400	55.94	74.0	18.06	Peak	126.00	200	Horizontal	Pass
4**	6974.400	46.89	54.0	7.11	AV	126.00	200	Horizontal	Pass
5	12730.450	52.36	74.0	21.64	Peak	346.00	400	Horizontal	Pass
5**	12730.450	42.85	54.0	11.15	AV	346.00	400	Horizontal	Pass
6	17466.864	56.21	74.0	17.79	Peak	244.00	400	Horizontal	Pass
6**	17466.864	45.90	54.0	8.10	AV	244.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Channel 2

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1590.400	42.26	74.0	31.74	Peak	10.00	100	Vertical	Pass
1**	1590.400	32.39	54.0	21.61	AV	10.00	100	Vertical	Pass
2	2414.800	96.97	74.0	-22.97	Peak	149.00	150	Vertical	N/A
2**	2414.800	90.18	54.0	-36.18	AV	149.00	150	Vertical	N/A
3	4980.600	51.93	74.0	22.07	Peak	177.00	150	Vertical	Pass
3**	4980.600	43.30	54.0	10.70	AV	177.00	150	Vertical	Pass
4	6980.800	55.17	74.0	18.83	Peak	335.00	200	Vertical	Pass
4**	6980.800	46.68	54.0	7.32	AV	335.00	200	Vertical	Pass
5	12729.875	52.94	74.0	21.06	Peak	242.00	400	Vertical	Pass
5**	12729.875	43.19	54.0	10.81	AV	242.00	400	Vertical	Pass
6	16303.725	55.30	74.0	18.70	Peak	360.00	300	Vertical	Pass
6**	16303.725	46.15	54.0	7.85	AV	360.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Channel 6

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1563.200	42.04	74.0	31.96	Peak	138.00	200	Horizontal	Pass
1**	1563.200	32.64	54.0	21.36	AV	138.00	200	Horizontal	Pass
2	2435.600	106.25	74.0	-32.25	Peak	70.00	150	Horizontal	N/A
2**	2435.600	99.29	54.0	-45.29	AV	70.00	150	Horizontal	N/A
3	4972.400	52.89	74.0	21.11	Peak	177.00	200	Horizontal	Pass
3**	4972.400	44.09	54.0	9.91	AV	177.00	200	Horizontal	Pass
4	6979.600	55.37	74.0	18.63	Peak	122.00	100	Horizontal	Pass
4**	6979.600	46.59	54.0	7.41	AV	122.00	100	Horizontal	Pass
5	11955.637	52.61	74.0	21.39	Peak	347.00	300	Horizontal	Pass
5**	11955.637	43.12	54.0	10.88	AV	347.00	300	Horizontal	Pass
6	16887.262	55.44	74.0	18.56	Peak	36.00	300	Horizontal	Pass
6**	16887.262	45.69	54.0	8.31	AV	36.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Channel 6

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1482.700	42.31	74.0	31.69	Peak	199.00	200	Vertical	Pass
1**	1482.700	32.19	54.0	21.81	AV	199.00	200	Vertical	Pass
2	2435.700	94.80	74.0	-20.80	Peak	132.00	200	Vertical	N/A
2**	2435.700	86.90	54.0	-32.90	AV	132.00	200	Vertical	N/A
3	4982.200	51.32	74.0	22.68	Peak	255.00	100	Vertical	Pass
3**	4982.200	43.37	54.0	10.63	AV	255.00	100	Vertical	Pass
4	6983.200	55.37	74.0	18.63	Peak	187.00	300	Vertical	Pass
4**	6983.200	46.66	54.0	7.34	AV	187.00	300	Vertical	Pass
5	12750.262	52.20	74.0	21.80	Peak	313.00	200	Vertical	Pass
5**	12750.262	42.60	54.0	11.40	AV	313.00	200	Vertical	Pass
6	17425.650	56.23	74.0	17.77	Peak	173.00	300	Vertical	Pass
6**	17425.650	46.16	54.0	7.84	AV	173.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Channel 10

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1566.300	41.95	74.0	32.05	Peak	360.00	300	Horizontal	Pass
1**	1566.300	33.04	54.0	20.96	AV	360.00	300	Horizontal	Pass
2	2459.400	107.20	74.0	-33.20	Peak	79.00	150	Horizontal	N/A
2**	2459.400	99.73	54.0	-45.73	AV	79.00	150	Horizontal	N/A
3	2988.700	50.60	74.0	23.40	Peak	314.00	150	Horizontal	Pass
3**	2988.700	41.59	54.0	12.41	AV	314.00	150	Horizontal	Pass
4	6980.800	55.75	74.0	18.25	Peak	109.00	200	Horizontal	Pass
4**	6980.800	46.82	54.0	7.18	AV	109.00	200	Horizontal	Pass
5	12743.388	52.69	74.0	21.31	Peak	193.00	100	Horizontal	Pass
5**	12743.388	42.64	54.0	11.36	AV	193.00	100	Horizontal	Pass
6	15339.300	55.52	74.0	18.48	Peak	352.00	400	Horizontal	Pass
6**	15339.300	45.21	54.0	8.79	AV	352.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Channel 10

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1490.900	42.46	74.0	31.54	Peak	150.00	400	Vertical	Pass
1**	1490.900	33.16	54.0	20.84	AV	150.00	400	Vertical	Pass
2	2458.600	97.28	74.0	-23.28	Peak	130.00	100	Vertical	N/A
2**	2458.600	89.11	54.0	-35.11	AV	130.00	100	Vertical	N/A
3	2997.100	51.46	74.0	22.54	Peak	103.00	150	Vertical	Pass
3**	2997.100	42.05	54.0	11.95	AV	103.00	150	Vertical	Pass
4	6978.600	55.76	74.0	18.24	Peak	178.00	200	Vertical	Pass
4**	6978.600	47.53	54.0	6.47	AV	178.00	200	Vertical	Pass
5	11953.050	52.80	74.0	21.20	Peak	193.00	100	Vertical	Pass
5**	11953.050	43.23	54.0	10.77	AV	193.00	100	Vertical	Pass
6	17449.275	56.16	74.0	17.84	Peak	253.00	300	Vertical	Pass
6**	17449.275	46.37	54.0	7.63	AV	253.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Channel 11

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1588.500	41.73	74.0	32.27	Peak	204.00	200	Horizontal	Pass
1**	1588.500	31.78	54.0	22.22	AV	204.00	200	Horizontal	Pass
2	2458.600	101.01	74.0	-27.01	Peak	70.00	100	Horizontal	N/A
2**	2458.600	93.36	54.0	-39.36	AV	70.00	100	Horizontal	N/A
3	2993.900	50.90	74.0	23.10	Peak	130.00	150	Horizontal	Pass
3**	2993.900	42.51	54.0	11.49	AV	130.00	150	Horizontal	Pass
4	6978.800	55.09	74.0	18.91	Peak	300.00	200	Horizontal	Pass
4**	6978.800	46.84	54.0	7.16	AV	300.00	200	Horizontal	Pass
5	12414.200	52.40	74.0	21.60	Peak	208.00	100	Horizontal	Pass
5**	12414.200	42.71	54.0	11.29	AV	208.00	100	Horizontal	Pass
6	17428.537	55.35	74.0	18.65	Peak	333.00	400	Horizontal	Pass
6**	17428.537	46.75	54.0	7.25	AV	333.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Channel 11

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1573.400	42.21	74.0	31.79	Peak	351.00	400	Vertical	Pass
1**	1573.400	33.17	54.0	20.83	AV	351.00	400	Vertical	Pass
2	2458.500	88.41	74.0	-14.41	Peak	136.00	100	Vertical	N/A
2**	2458.500	81.68	54.0	-27.68	AV	136.00	100	Vertical	N/A
3	4982.000	52.26	74.0	21.74	Peak	269.00	100	Vertical	Pass
3**	4982.000	42.90	54.0	11.10	AV	269.00	100	Vertical	Pass
4	6979.400	55.91	74.0	18.09	Peak	212.00	400	Vertical	Pass
4**	6979.400	46.58	54.0	7.42	AV	212.00	400	Vertical	Pass
5	11926.025	52.39	74.0	21.61	Peak	191.00	400	Vertical	Pass
5**	11926.025	42.72	54.0	11.28	AV	191.00	400	Vertical	Pass
6	17454.000	55.88	74.0	18.12	Peak	195.00	300	Vertical	Pass
6**	17454.000	46.64	54.0	7.36	AV	195.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Channel 3

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1493.600	41.99	74.0	32.01	Peak	181.00	400	Horizontal	Pass
1**	1493.600	32.92	54.0	21.08	AV	181.00	400	Horizontal	Pass
2	2415.500	95.79	74.0	-21.79	Peak	68.00	200	Horizontal	N/A
2**	2415.500	87.85	54.0	-33.85	AV	68.00	200	Horizontal	N/A
3	4980.200	51.72	74.0	22.28	Peak	312.00	200	Horizontal	Pass
3**	4980.200	42.46	54.0	11.54	AV	312.00	200	Horizontal	Pass
4	6975.800	54.73	74.0	19.27	Peak	233.00	200	Horizontal	Pass
4**	6975.800	46.75	54.0	7.25	AV	233.00	200	Horizontal	Pass
5	12733.325	51.59	74.0	22.41	Peak	140.00	200	Horizontal	Pass
5**	12733.325	41.89	54.0	12.11	AV	140.00	200	Horizontal	Pass
6	15244.013	54.85	74.0	19.15	Peak	54.00	400	Horizontal	Pass
6**	15244.013	44.40	54.0	9.60	AV	54.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Channel 3

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.600	41.80	74.0	32.20	Peak	245.00	300	Vertical	Pass
1**	1333.600	31.76	54.0	22.24	AV	245.00	300	Vertical	Pass
2	2417.700	84.00	74.0	-10.00	Peak	132.00	150	Vertical	N/A
2**	2417.700	75.70	54.0	-21.70	AV	132.00	150	Vertical	N/A
3	4990.600	51.41	74.0	22.59	Peak	0.00	100	Vertical	Pass
3**	4990.600	41.51	54.0	12.49	AV	0.00	100	Vertical	Pass
4	6987.800	54.86	74.0	19.14	Peak	248.00	100	Vertical	Pass
4**	6987.800	45.52	54.0	8.48	AV	248.00	100	Vertical	Pass
5	11783.999	51.24	74.0	22.76	Peak	42.00	400	Vertical	Pass
5**	11783.999	42.50	54.0	11.50	AV	42.00	400	Vertical	Pass
6	16480.387	54.95	74.0	19.05	Peak	234.00	300	Vertical	Pass
6**	16480.387	44.57	54.0	9.43	AV	234.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Channel 4

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1585.500	41.68	74.0	32.32	Peak	33.00	400	Horizontal	Pass
1**	1585.500	32.48	54.0	21.52	AV	33.00	400	Horizontal	Pass
2	2413.900	104.24	74.0	-30.24	Peak	73.00	200	Horizontal	N/A
2**	2413.900	95.25	54.0	-41.25	AV	73.00	200	Horizontal	N/A
3	4814.600	50.77	74.0	23.23	Peak	212.00	150	Horizontal	Pass
3**	4814.600	41.53	54.0	12.47	AV	212.00	150	Horizontal	Pass
4	6618.600	54.74	74.0	19.26	Peak	316.00	200	Horizontal	Pass
4**	6618.600	45.09	54.0	8.91	AV	316.00	200	Horizontal	Pass
5	11952.187	51.63	74.0	22.37	Peak	360.00	400	Horizontal	Pass
5**	11952.187	42.37	54.0	11.63	AV	360.00	400	Horizontal	Pass
6	17422.500	55.46	74.0	18.54	Peak	278.00	100	Horizontal	Pass
6**	17422.500	46.12	54.0	7.88	AV	278.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Channel 4

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.600	41.78	74.0	32.22	Peak	150.00	400	Vertical	Pass
1**	1501.600	33.09	54.0	20.91	AV	150.00	400	Vertical	Pass
2	2413.800	91.40	74.0	-17.40	Peak	177.00	200	Vertical	N/A
2**	2413.800	83.86	54.0	-29.86	AV	177.00	200	Vertical	N/A
3	4777.600	51.37	74.0	22.63	Peak	301.00	200	Vertical	Pass
3**	4777.600	41.92	54.0	12.08	AV	301.00	200	Vertical	Pass
4	6806.200	54.71	74.0	19.29	Peak	222.00	300	Vertical	Pass
4**	6806.200	45.83	54.0	8.17	AV	222.00	300	Vertical	Pass
5	11507.713	51.40	74.0	22.60	Peak	3.00	300	Vertical	Pass
5**	11507.713	41.87	54.0	12.13	AV	3.00	300	Vertical	Pass
6	15800.250	54.60	74.0	19.40	Peak	97.00	300	Vertical	Pass
6**	15800.250	44.02	54.0	9.98	AV	97.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Channel 5

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1402.500	42.48	74.0	31.52	Peak	151.00	200	Horizontal	Pass
1**	1402.500	32.95	54.0	21.05	AV	151.00	200	Horizontal	Pass
2	2417.600	103.37	74.0	-29.37	Peak	16.00	200	Horizontal	N/A
2**	2417.600	95.43	54.0	-41.43	AV	16.00	200	Horizontal	N/A
3	4976.000	52.00	74.0	22.00	Peak	330.00	200	Horizontal	Pass
3**	4976.000	43.34	54.0	10.66	AV	330.00	200	Horizontal	Pass
4	6989.800	55.17	74.0	18.83	Peak	0.00	100	Horizontal	Pass
4**	6989.800	46.59	54.0	7.41	AV	0.00	100	Horizontal	Pass
5	11335.500	52.35	74.0	21.65	Peak	255.00	400	Horizontal	Pass
5**	11335.500	42.55	54.0	11.45	AV	255.00	400	Horizontal	Pass
6	17470.011	56.19	74.0	17.81	Peak	83.00	150	Horizontal	Pass
6**	17470.011	46.12	54.0	7.88	AV	83.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Channel 5

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1477.900	42.25	74.0	31.75	Peak	7.00	100	Vertical	Pass
1**	1477.900	33.45	54.0	20.55	AV	7.00	100	Vertical	Pass
2	2437.900	93.56	74.0	-19.56	Peak	177.00	100	Vertical	N/A
2**	2437.900	85.99	54.0	-31.99	AV	177.00	100	Vertical	N/A
3	4811.200	48.80	74.0	25.20	Peak	215.00	150	Vertical	Pass
3**	4811.200	45.68	54.0	8.32	AV	215.00	150	Vertical	Pass
4	6979.400	55.63	74.0	18.37	Peak	239.00	200	Vertical	Pass
4**	6979.400	47.42	54.0	6.58	AV	239.00	200	Vertical	Pass
5	11903.313	52.28	74.0	21.72	Peak	256.00	200	Vertical	Pass
5**	11903.313	42.74	54.0	11.26	AV	256.00	200	Vertical	Pass
6	17420.925	56.21	74.0	17.79	Peak	264.00	100	Vertical	Pass
6**	17420.925	47.00	54.0	7.00	AV	264.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Channel 6

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1444.000	41.80	74.0	32.20	Peak	270.00	300	Horizontal	Pass
1**	1444.000	33.08	54.0	20.92	AV	270.00	300	Horizontal	Pass
2	2425.300	101.45	74.0	-27.45	Peak	71.00	150	Horizontal	N/A
2**	2425.300	93.47	54.0	-39.47	AV	71.00	150	Horizontal	N/A
3	4791.800	50.70	74.0	23.30	Peak	142.00	150	Horizontal	Pass
3**	4791.800	41.15	54.0	12.85	AV	142.00	150	Horizontal	Pass
4	6804.000	54.37	74.0	19.63	Peak	119.00	300	Horizontal	Pass
4**	6804.000	45.09	54.0	8.91	AV	119.00	300	Horizontal	Pass
5	11929.763	51.74	74.0	22.26	Peak	0.00	300	Horizontal	Pass
5**	11929.763	42.48	54.0	11.52	AV	0.00	300	Horizontal	Pass
6	17423.026	54.61	74.0	19.39	Peak	174.00	400	Horizontal	Pass
6**	17423.026	47.03	54.0	6.97	AV	174.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Channel 6

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1503.600	42.71	74.0	31.29	Peak	97.00	400	Vertical	Pass
1**	1503.600	32.39	54.0	21.61	AV	97.00	400	Vertical	Pass
2	2441.300	91.65	74.0	-17.65	Peak	179.00	100	Vertical	N/A
2**	2441.300	84.08	54.0	-30.08	AV	179.00	100	Vertical	N/A
3	5180.600	53.41	74.0	20.59	Peak	196.00	150	Vertical	Pass
3**	5180.600	42.86	54.0	11.14	AV	196.00	150	Vertical	Pass
4	6974.800	54.82	74.0	19.18	Peak	0.00	300	Vertical	Pass
4**	6974.800	45.94	54.0	8.06	AV	0.00	300	Vertical	Pass
5	10911.438	52.29	74.0	21.71	Peak	225.00	200	Vertical	Pass
5**	10911.438	41.68	54.0	12.32	AV	225.00	200	Vertical	Pass
6	17422.238	54.98	74.0	19.02	Peak	360.00	300	Vertical	Pass
6**	17422.238	46.17	54.0	7.83	AV	360.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Channel 7

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1492.000	42.07	74.0	31.93	Peak	106.00	300	Horizontal	Pass
1**	1492.000	32.39	54.0	21.61	AV	106.00	300	Horizontal	Pass
2	2444.200	102.87	74.0	-28.87	Peak	64.00	100	Horizontal	N/A
2**	2444.200	94.60	54.0	-40.60	AV	64.00	100	Horizontal	N/A
3	4978.800	52.12	74.0	21.88	Peak	329.00	200	Horizontal	Pass
3**	4978.800	43.21	54.0	10.79	AV	329.00	200	Horizontal	Pass
4	6995.800	56.29	74.0	17.71	Peak	351.00	100	Horizontal	Pass
4**	6995.800	46.01	54.0	7.99	AV	351.00	100	Horizontal	Pass
5	11938.388	52.87	74.0	21.13	Peak	203.00	200	Horizontal	Pass
5**	11938.388	43.13	54.0	10.87	AV	203.00	200	Horizontal	Pass
6	17432.214	56.25	74.0	17.75	Peak	165.00	100	Horizontal	Pass
6**	17432.214	46.99	54.0	7.01	AV	165.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Channel 7

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1504.500	42.73	74.0	31.27	Peak	37.00	400	Vertical	Pass
1**	1504.500	32.38	54.0	21.62	AV	37.00	400	Vertical	Pass
2	2436.200	93.94	74.0	-19.94	Peak	179.00	100	Vertical	N/A
2**	2436.200	85.25	54.0	-31.25	AV	179.00	100	Vertical	N/A
3	4990.400	52.39	74.0	21.61	Peak	0.00	200	Vertical	Pass
3**	4990.400	42.22	54.0	11.78	AV	0.00	200	Vertical	Pass
4	6980.200	55.70	74.0	18.30	Peak	360.00	400	Vertical	Pass
4**	6980.200	46.72	54.0	7.28	AV	360.00	400	Vertical	Pass
5	12397.525	52.23	74.0	21.77	Peak	204.00	100	Vertical	Pass
5**	12397.525	42.36	54.0	11.64	AV	204.00	100	Vertical	Pass
6	17425.388	56.10	74.0	17.90	Peak	127.00	400	Vertical	Pass
6**	17425.388	47.26	54.0	6.74	AV	127.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Channel 8

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1585.600	41.71	74.0	32.29	Peak	146.00	300	Horizontal	Pass
1**	1585.600	32.59	54.0	21.41	AV	146.00	300	Horizontal	Pass
2	2454.800	102.07	74.0	-28.07	Peak	14.00	150	Horizontal	N/A
2**	2454.800	94.07	54.0	-40.07	AV	14.00	150	Horizontal	N/A
3	4765.200	50.64	74.0	23.36	Peak	93.00	150	Horizontal	Pass
3**	4765.200	41.25	54.0	12.75	AV	93.00	150	Horizontal	Pass
4	6803.600	55.21	74.0	18.79	Peak	56.00	100	Horizontal	Pass
4**	6803.600	45.35	54.0	8.65	AV	56.00	100	Horizontal	Pass
5	11834.888	51.76	74.0	22.24	Peak	257.00	300	Horizontal	Pass
5**	11834.888	41.67	54.0	12.33	AV	257.00	300	Horizontal	Pass
6	17426.698	54.69	74.0	19.31	Peak	116.00	400	Horizontal	Pass
6**	17426.698	47.14	54.0	6.86	AV	116.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Channel 8

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1566.700	42.24	74.0	31.76	Peak	168.00	300	Vertical	Pass
1**	1566.700	32.43	54.0	21.57	AV	168.00	300	Vertical	Pass
2	2435.000	91.78	74.0	-17.78	Peak	133.00	150	Vertical	N/A
2**	2435.000	84.11	54.0	-30.11	AV	133.00	150	Vertical	N/A
3	5142.000	52.00	74.0	22.00	Peak	278.00	150	Vertical	Pass
3**	5142.000	43.09	54.0	10.91	AV	278.00	150	Vertical	Pass
4	6980.400	54.17	74.0	19.83	Peak	148.00	100	Vertical	Pass
4**	6980.400	45.56	54.0	8.44	AV	148.00	100	Vertical	Pass
5	12716.363	51.78	74.0	22.22	Peak	0.00	400	Vertical	Pass
5**	12716.363	41.29	54.0	12.71	AV	0.00	400	Vertical	Pass
6	17423.026	54.77	74.0	19.23	Peak	115.00	300	Vertical	Pass
6**	17423.026	46.15	54.0	7.85	AV	115.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Channel 9

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1581.000	42.30	74.0	31.70	Peak	127.00	100	Horizontal	Pass
1**	1581.000	32.51	54.0	21.49	AV	127.00	100	Horizontal	Pass
2	2456.800	92.99	74.0	-18.99	Peak	14.00	200	Horizontal	N/A
2**	2456.800	86.19	54.0	-32.19	AV	14.00	200	Horizontal	N/A
3	5452.200	52.56	74.0	21.44	Peak	0.00	150	Horizontal	Pass
3**	5452.200	42.97	54.0	11.03	AV	0.00	150	Horizontal	Pass
4	6977.400	54.97	74.0	19.03	Peak	360.00	400	Horizontal	Pass
4**	6977.400	45.64	54.0	8.36	AV	360.00	400	Horizontal	Pass
5	11936.375	51.60	74.0	22.40	Peak	239.00	400	Horizontal	Pass
5**	11936.375	42.36	54.0	11.64	AV	239.00	400	Horizontal	Pass
6	16430.775	55.59	74.0	18.41	Peak	250.00	150	Horizontal	Pass
6**	16430.775	45.00	54.0	9.00	AV	250.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Channel 9

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1346.300	42.28	74.0	31.72	Peak	360.00	400	Vertical	Pass
1**	1346.300	31.68	54.0	22.32	AV	360.00	400	Vertical	Pass
2	2458.300	82.42	74.0	-8.42	Peak	180.00	100	Vertical	N/A
2**	2458.300	74.13	54.0	-20.13	AV	180.00	100	Vertical	N/A
3	4813.800	51.71	74.0	22.29	Peak	55.00	150	Vertical	Pass
3**	4813.800	42.26	54.0	11.74	AV	55.00	150	Vertical	Pass
4	6807.600	54.77	74.0	19.23	Peak	138.00	200	Vertical	Pass
4**	6807.600	45.85	54.0	8.15	AV	138.00	200	Vertical	Pass
5	11897.850	51.58	74.0	22.42	Peak	308.00	100	Vertical	Pass
5**	11897.850	41.43	54.0	12.57	AV	308.00	100	Vertical	Pass
6	17399.927	55.03	74.0	18.97	Peak	118.00	300	Vertical	Pass
6**	17399.927	46.23	54.0	7.77	AV	118.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H VHT20 Channel 1

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1382.900	42.01	74.0	31.99	Peak	211.00	300	Horizontal	Pass
1**	1382.900	32.30	54.0	21.70	AV	211.00	300	Horizontal	Pass
2	2407.900	100.66	74.0	-26.66	Peak	75.00	150	Horizontal	N/A
2**	2407.900	93.37	54.0	-39.37	AV	75.00	150	Horizontal	N/A
3	2989.700	51.92	74.0	22.08	Peak	262.00	100	Horizontal	Pass
3**	2989.700	42.37	54.0	11.63	AV	262.00	100	Horizontal	Pass
4	6801.400	54.15	74.0	19.85	Peak	360.00	200	Horizontal	Pass
4**	6801.400	44.96	54.0	9.04	AV	360.00	200	Horizontal	Pass
5	11773.362	51.96	74.0	22.04	Peak	230.00	400	Horizontal	Pass
5**	11773.362	42.49	54.0	11.51	AV	230.00	400	Horizontal	Pass
6	16427.625	54.64	74.0	19.36	Peak	249.00	200	Horizontal	Pass
6**	16427.625	46.24	54.0	7.76	AV	249.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT VVHT20 Channel 1

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1488.200	42.02	74.0	31.98	Peak	76.00	200	Vertical	Pass
1**	1488.200	32.53	54.0	21.47	AV	76.00	200	Vertical	Pass
2	2406.900	89.58	74.0	-15.58	Peak	131.00	150	Vertical	N/A
2**	2406.900	81.19	54.0	-27.19	AV	131.00	150	Vertical	N/A
3	4797.600	50.99	74.0	23.01	Peak	340.00	100	Vertical	Pass
3**	4797.600	41.94	54.0	12.06	AV	340.00	100	Vertical	Pass
4	6657.200	54.13	74.0	19.87	Peak	294.00	300	Vertical	Pass
4**	6657.200	44.74	54.0	9.26	AV	294.00	300	Vertical	Pass
5	10917.474	51.70	74.0	22.30	Peak	172.00	300	Vertical	Pass
5**	10917.474	43.04	54.0	10.96	AV	172.00	300	Vertical	Pass
6	17416.989	55.18	74.0	18.82	Peak	134.00	200	Vertical	Pass
6**	17416.989	46.28	54.0	7.72	AV	134.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H VHT20 Channel 2

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1314.100	41.90	74.0	32.10	Peak	50.00	400	Horizontal	Pass
1**	1314.100	32.07	54.0	21.93	AV	50.00	400	Horizontal	Pass
2	2413.000	106.29	74.0	-32.29	Peak	76.00	100	Horizontal	N/A
2**	2413.000	98.95	54.0	-44.95	AV	76.00	100	Horizontal	N/A
3	4790.400	51.17	74.0	22.83	Peak	303.00	100	Horizontal	Pass
3**	4790.400	41.36	54.0	12.64	AV	303.00	100	Horizontal	Pass
4	6786.600	54.36	74.0	19.64	Peak	100.00	100	Horizontal	Pass
4**	6786.600	45.62	54.0	8.38	AV	100.00	100	Horizontal	Pass
5	12824.025	51.34	74.0	22.66	Peak	360.00	400	Horizontal	Pass
5**	12824.025	42.02	54.0	11.98	AV	360.00	400	Horizontal	Pass
6	16763.887	55.03	74.0	18.97	Peak	55.00	200	Horizontal	Pass
6**	16763.887	44.67	54.0	9.33	AV	55.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT VVHT20 Channel 2

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1369.900	41.80	74.0	32.20	Peak	344.00	300	Vertical	Pass
1**	1369.900	31.60	54.0	22.40	AV	344.00	300	Vertical	Pass
2	2415.300	96.26	74.0	-22.26	Peak	135.00	150	Vertical	N/A
2**	2415.300	88.19	54.0	-34.19	AV	135.00	150	Vertical	N/A
3	2845.100	51.57	74.0	22.43	Peak	344.00	150	Vertical	Pass
3**	2845.100	41.93	54.0	12.07	AV	344.00	150	Vertical	Pass
4	6977.800	54.54	74.0	19.46	Peak	270.00	100	Vertical	Pass
4**	6977.800	45.89	54.0	8.11	AV	270.00	100	Vertical	Pass
5	11930.338	52.80	74.0	21.20	Peak	228.00	100	Vertical	Pass
5**	11930.338	42.02	54.0	11.98	AV	228.00	100	Vertical	Pass
6	16483.276	54.92	74.0	19.08	Peak	360.00	400	Vertical	Pass
6**	16483.276	44.75	54.0	9.25	AV	360.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H VHT20 Channel 6

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1475.200	41.56	74.0	32.44	Peak	115.00	300	Horizontal	Pass
1**	1475.200	31.70	54.0	22.30	AV	115.00	300	Horizontal	Pass
2	2434.400	104.71	74.0	-30.71	Peak	69.00	100	Horizontal	N/A
2**	2434.400	96.85	54.0	-42.85	AV	69.00	100	Horizontal	N/A
3	2995.500	51.19	74.0	22.81	Peak	135.00	200	Horizontal	Pass
3**	2995.500	43.02	54.0	10.98	AV	135.00	200	Horizontal	Pass
4	6805.800	54.13	74.0	19.87	Peak	74.00	200	Horizontal	Pass
4**	6805.800	45.23	54.0	8.77	AV	74.00	200	Horizontal	Pass
5	12779.400	51.46	74.0	22.54	Peak	310.00	100	Horizontal	Pass
5**	12779.400	42.03	54.0	11.97	AV	310.00	100	Horizontal	Pass
6	16908.261	55.11	74.0	18.89	Peak	0.00	100	Horizontal	Pass
6**	16908.261	44.61	54.0	9.39	AV	0.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT VVHT20 Channel 6

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1495.100	42.07	74.0	31.93	Peak	126.00	200	Vertical	Pass
1**	1495.100	32.43	54.0	21.57	AV	126.00	200	Vertical	Pass
2	2433.600	94.19	74.0	-20.19	Peak	132.00	150	Vertical	N/A
2**	2433.600	87.18	54.0	-33.18	AV	132.00	150	Vertical	N/A
3	2856.500	51.26	74.0	22.74	Peak	245.00	200	Vertical	Pass
3**	2856.500	41.66	54.0	12.34	AV	245.00	200	Vertical	Pass
4	6999.600	54.70	74.0	19.30	Peak	214.00	100	Vertical	Pass
4**	6999.600	45.15	54.0	8.85	AV	214.00	100	Vertical	Pass
5	12782.812	51.78	74.0	22.22	Peak	213.00	300	Vertical	Pass
5**	12782.812	42.42	54.0	11.58	AV	213.00	300	Vertical	Pass
6	17429.588	54.76	74.0	19.24	Peak	273.00	200	Vertical	Pass
6**	17429.588	46.31	54.0	7.69	AV	273.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H VHT20 Channel 10

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1403.100	41.98	74.0	32.02	Peak	283.00	400	Horizontal	Pass
1**	1403.100	33.14	54.0	20.86	AV	283.00	400	Horizontal	Pass
2	2458.300	104.95	74.0	-30.95	Peak	16.00	200	Horizontal	N/A
2**	2458.300	97.65	54.0	-43.65	AV	16.00	200	Horizontal	N/A
3	5039.600	51.77	74.0	22.23	Peak	338.00	150	Horizontal	Pass
3**	5039.600	42.15	54.0	11.85	AV	338.00	150	Horizontal	Pass
4	6976.200	54.43	74.0	19.57	Peak	179.00	400	Horizontal	Pass
4**	6976.200	45.50	54.0	8.50	AV	179.00	400	Horizontal	Pass
5	10921.213	51.66	74.0	22.34	Peak	172.00	200	Horizontal	Pass
5**	10921.213	42.50	54.0	11.50	AV	172.00	200	Horizontal	Pass
6	15835.162	56.02	74.0	17.98	Peak	133.00	400	Horizontal	Pass
6**	15835.162	45.05	54.0	8.95	AV	133.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT VVHT20 Channel 10

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1561.800	41.86	74.0	32.14	Peak	170.00	200	Vertical	Pass
1**	1561.800	32.94	54.0	21.06	AV	170.00	200	Vertical	Pass
2	2459.000	95.65	74.0	-21.65	Peak	177.00	150	Vertical	N/A
2**	2459.000	88.58	54.0	-34.58	AV	177.00	150	Vertical	N/A
3	2846.800	51.04	74.0	22.96	Peak	0.00	100	Vertical	Pass
3**	2846.800	41.93	54.0	12.07	AV	0.00	100	Vertical	Pass
4	6996.000	54.69	74.0	19.31	Peak	288.00	200	Vertical	Pass
4**	6996.000	44.85	54.0	9.15	AV	288.00	200	Vertical	Pass
5	11825.112	51.54	74.0	22.46	Peak	119.00	400	Vertical	Pass
5**	11825.112	42.31	54.0	11.69	AV	119.00	400	Vertical	Pass
6	15811.800	54.92	74.0	19.08	Peak	96.00	300	Vertical	Pass
6**	15811.800	45.56	54.0	8.44	AV	96.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H VHT20 Channel 11

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1576.700	42.09	74.0	31.91	Peak	135.00	200	Horizontal	Pass
1**	1576.700	31.76	54.0	22.24	AV	135.00	200	Horizontal	Pass
2	2469.000	99.93	74.0	-25.93	Peak	13.00	200	Horizontal	N/A
2**	2469.000	92.26	54.0	-38.26	AV	13.00	200	Horizontal	N/A
3	4934.600	51.55	74.0	22.45	Peak	280.00	150	Horizontal	Pass
3**	4934.600	41.65	54.0	12.35	AV	280.00	150	Horizontal	Pass
4	6975.800	54.44	74.0	19.56	Peak	137.00	200	Horizontal	Pass
4**	6975.800	46.11	54.0	7.89	AV	137.00	200	Horizontal	Pass
5	11326.875	51.94	74.0	22.06	Peak	312.00	200	Horizontal	Pass
5**	11326.875	42.15	54.0	11.85	AV	312.00	200	Horizontal	Pass
6	16353.075	55.32	74.0	18.68	Peak	0.00	200	Horizontal	Pass
6**	16353.075	44.71	54.0	9.29	AV	0.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT VVHT20 Channel 11

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1559.700	42.02	74.0	31.98	Peak	356.00	300	Vertical	Pass
1**	1559.700	32.61	54.0	21.39	AV	356.00	300	Vertical	Pass
2	2468.400	90.43	74.0	-16.43	Peak	180.00	200	Vertical	N/A
2**	2468.400	82.19	54.0	-28.19	AV	180.00	200	Vertical	N/A
3	5173.200	52.23	74.0	21.77	Peak	307.00	150	Vertical	Pass
3**	5173.200	42.17	54.0	11.83	AV	307.00	150	Vertical	Pass
4	6965.400	54.09	74.0	19.91	Peak	41.00	300	Vertical	Pass
4**	6965.400	44.30	54.0	9.70	AV	41.00	300	Vertical	Pass
5	10916.901	51.97	74.0	22.03	Peak	0.00	300	Vertical	Pass
5**	10916.901	42.40	54.0	11.60	AV	0.00	300	Vertical	Pass
6	17431.425	54.82	74.0	19.18	Peak	178.00	300	Vertical	Pass
6**	17431.425	46.52	54.0	7.48	AV	178.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H VHT40 Channel 3

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1537.200	42.34	74.0	31.66	Peak	242.00	400	Horizontal	Pass
1**	1537.200	32.88	54.0	21.12	AV	242.00	400	Horizontal	Pass
2	2417.100	97.00	74.0	-23.00	Peak	75.00	200	Horizontal	N/A
2**	2417.100	89.34	54.0	-35.34	AV	75.00	200	Horizontal	N/A
3	2844.000	51.38	74.0	22.62	Peak	222.00	150	Horizontal	Pass
3**	2844.000	42.01	54.0	11.99	AV	222.00	150	Horizontal	Pass
4	6984.000	54.55	74.0	19.45	Peak	0.00	200	Horizontal	Pass
4**	6984.000	44.71	54.0	9.29	AV	0.00	200	Horizontal	Pass
5	10920.925	52.40	74.0	21.60	Peak	98.00	300	Horizontal	Pass
5**	10920.925	42.47	54.0	11.53	AV	98.00	300	Horizontal	Pass
6	15846.974	55.16	74.0	18.84	Peak	207.00	300	Horizontal	Pass
6**	15846.974	44.92	54.0	9.08	AV	207.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V VHT40 Channel 3

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1548.700	41.78	74.0	32.22	Peak	316.00	400	Vertical	Pass
1**	1548.700	31.88	54.0	22.12	AV	316.00	400	Vertical	Pass
2	2415.600	85.83	74.0	-11.83	Peak	137.00	150	Vertical	N/A
2**	2415.600	78.05	54.0	-24.05	AV	137.00	150	Vertical	N/A
3	2968.800	51.30	74.0	22.70	Peak	276.00	100	Vertical	Pass
3**	2968.800	42.33	54.0	11.67	AV	276.00	100	Vertical	Pass
4	6806.400	54.35	74.0	19.65	Peak	320.00	100	Vertical	Pass
4**	6806.400	45.33	54.0	8.67	AV	320.00	100	Vertical	Pass
5	10424.412	52.01	74.0	21.99	Peak	82.00	300	Vertical	Pass
5**	10424.412	41.24	54.0	12.76	AV	82.00	300	Vertical	Pass
6	16457.026	54.95	74.0	19.05	Peak	287.00	300	Vertical	Pass
6**	16457.026	44.74	54.0	9.26	AV	287.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H VHT40 Channel 4

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1515.400	42.34	74.0	31.66	Peak	350.00	200	Horizontal	Pass
1**	1515.400	31.78	54.0	22.22	AV	350.00	200	Horizontal	Pass
2	2437.900	103.72	74.0	-29.72	Peak	69.00	200	Horizontal	N/A
2**	2437.900	95.26	54.0	-41.26	AV	69.00	200	Horizontal	N/A
3	4976.000	51.67	74.0	22.33	Peak	330.00	200	Horizontal	Pass
3**	4976.000	43.36	54.0	10.64	AV	330.00	200	Horizontal	Pass
4	6788.400	55.37	74.0	18.63	Peak	119.00	300	Horizontal	Pass
4**	6788.400	46.27	54.0	7.73	AV	119.00	300	Horizontal	Pass
5	10912.012	52.43	74.0	21.57	Peak	152.00	300	Horizontal	Pass
5**	10912.012	42.30	54.0	11.70	AV	152.00	300	Horizontal	Pass
6	16992.525	55.90	74.0	18.10	Peak	244.00	400	Horizontal	Pass
6**	16992.525	46.10	54.0	7.90	AV	244.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V VHT40 Channel 4

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1315.900	42.43	74.0	31.57	Peak	0.00	400	Vertical	Pass
1**	1315.900	32.92	54.0	21.08	AV	0.00	400	Vertical	Pass
2	2439.600	94.16	74.0	-20.16	Peak	179.00	100	Vertical	N/A
2**	2439.600	87.43	54.0	-33.43	AV	179.00	100	Vertical	N/A
3	4733.000	52.74	74.0	21.26	Peak	329.00	100	Vertical	Pass
3**	4733.000	41.69	54.0	12.31	AV	329.00	100	Vertical	Pass
4	6791.000	55.41	74.0	18.59	Peak	191.00	400	Vertical	Pass
4**	6791.000	45.98	54.0	8.02	AV	191.00	400	Vertical	Pass
5	11893.537	52.64	74.0	21.36	Peak	65.00	100	Vertical	Pass
5**	11893.537	42.09	54.0	11.91	AV	65.00	100	Vertical	Pass
6	17407.537	55.65	74.0	18.35	Peak	145.00	200	Vertical	Pass
6**	17407.537	46.24	54.0	7.76	AV	145.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H VHT40 Channel 5

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1484.400	42.49	74.0	31.51	Peak	98.00	100	Horizontal	Pass
1**	1484.400	32.89	54.0	21.11	AV	98.00	100	Horizontal	Pass
2	2443.600	103.00	74.0	-29.00	Peak	71.00	100	Horizontal	N/A
2**	2443.600	94.96	54.0	-40.96	AV	71.00	100	Horizontal	N/A
3	4932.000	51.98	74.0	22.02	Peak	203.00	200	Horizontal	Pass
3**	4932.000	42.39	54.0	11.61	AV	203.00	200	Horizontal	Pass
4	6809.000	55.54	74.0	18.46	Peak	145.00	100	Horizontal	Pass
4**	6809.000	46.81	54.0	7.19	AV	145.00	100	Horizontal	Pass
5	12622.925	51.73	74.0	22.27	Peak	152.00	400	Horizontal	Pass
5**	12622.925	42.48	54.0	11.52	AV	152.00	400	Horizontal	Pass
6	17471.062	56.19	74.0	17.81	Peak	167.00	100	Horizontal	Pass
6**	17471.062	46.63	54.0	7.37	AV	167.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V VHT40 Channel 5

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1503.600	42.94	74.0	31.06	Peak	334.00	200	Vertical	Pass
1**	1503.600	33.38	54.0	20.62	AV	334.00	200	Vertical	Pass
2	2441.400	93.64	74.0	-19.64	Peak	179.00	150	Vertical	N/A
2**	2441.400	84.84	54.0	-30.84	AV	179.00	150	Vertical	N/A
3	4993.600	52.11	74.0	21.89	Peak	360.00	200	Vertical	Pass
3**	4993.600	42.00	54.0	12.00	AV	360.00	200	Vertical	Pass
4	6805.200	56.70	74.0	17.30	Peak	18.00	200	Vertical	Pass
4**	6805.200	46.46	54.0	7.54	AV	18.00	200	Vertical	Pass
5	11900.151	52.47	74.0	21.53	Peak	309.00	400	Vertical	Pass
5**	11900.151	42.93	54.0	11.07	AV	309.00	400	Vertical	Pass
6	17430.374	57.35	74.0	16.65	Peak	247.00	100	Vertical	Pass
6**	17430.374	47.12	54.0	6.88	AV	247.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H VHT40 Channel 6

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1557.300	41.93	74.0	32.07	Peak	176.00	200	Horizontal	Pass
1**	1557.300	32.22	54.0	21.78	AV	176.00	200	Horizontal	Pass
2	2442.900	100.70	74.0	-26.70	Peak	76.00	200	Horizontal	N/A
2**	2442.900	93.53	54.0	-39.53	AV	76.00	200	Horizontal	N/A
3	2999.600	50.52	74.0	23.48	Peak	0.00	150	Horizontal	Pass
3**	2999.600	41.70	54.0	12.30	AV	0.00	150	Horizontal	Pass
4	6806.600	54.24	74.0	19.76	Peak	337.00	400	Horizontal	Pass
4**	6806.600	45.90	54.0	8.10	AV	337.00	400	Horizontal	Pass
5	11901.875	51.41	74.0	22.59	Peak	82.00	300	Horizontal	Pass
5**	11901.875	42.28	54.0	11.72	AV	82.00	300	Horizontal	Pass
6	17438.251	54.83	74.0	19.17	Peak	227.00	200	Horizontal	Pass
6**	17438.251	45.89	54.0	8.11	AV	227.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V VHT40 Channel 6

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1585.000	42.23	74.0	31.77	Peak	0.00	400	Vertical	Pass
1**	1585.000	32.65	54.0	21.35	AV	0.00	400	Vertical	Pass
2	2453.400	89.99	74.0	-15.99	Peak	0.00	200	Vertical	N/A
2**	2453.400	82.56	54.0	-28.56	AV	0.00	200	Vertical	N/A
3	2999.000	51.16	74.0	22.84	Peak	0.00	150	Vertical	Pass
3**	2999.000	41.45	54.0	12.55	AV	0.00	150	Vertical	Pass
4	6988.000	54.50	74.0	19.50	Peak	204.00	400	Vertical	Pass
4**	6988.000	45.71	54.0	8.29	AV	204.00	400	Vertical	Pass
5	12413.912	51.79	74.0	22.21	Peak	0.00	100	Vertical	Pass
5**	12413.912	42.32	54.0	11.68	AV	0.00	100	Vertical	Pass
6	17418.301	54.95	74.0	19.05	Peak	267.00	300	Vertical	Pass
6**	17418.301	45.57	54.0	8.43	AV	267.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H VHT40 Channel 8

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1428.600	41.74	74.0	32.26	Peak	252.00	200	Horizontal	Pass
1**	1428.600	32.48	54.0	21.52	AV	252.00	200	Horizontal	Pass
2	2441.000	101.45	74.0	-27.45	Peak	16.00	150	Horizontal	N/A
2**	2441.000	92.21	54.0	-38.21	AV	16.00	150	Horizontal	N/A
3	2995.100	51.77	74.0	22.23	Peak	132.00	150	Horizontal	Pass
3**	2995.100	41.99	54.0	12.01	AV	132.00	150	Horizontal	Pass
4	6975.000	54.63	74.0	19.37	Peak	115.00	100	Horizontal	Pass
4**	6975.000	45.87	54.0	8.13	AV	115.00	100	Horizontal	Pass
5	11942.700	52.08	74.0	21.92	Peak	352.00	200	Horizontal	Pass
5**	11942.700	42.13	54.0	11.87	AV	352.00	200	Horizontal	Pass
6	16342.313	55.07	74.0	18.93	Peak	305.00	300	Horizontal	Pass
6**	16342.313	44.25	54.0	9.75	AV	305.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V VHT40 Channel 8

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1400.500	41.68	74.0	32.32	Peak	254.00	300	Vertical	Pass
1**	1400.500	32.71	54.0	21.29	AV	254.00	300	Vertical	Pass
2	2445.200	89.56	74.0	-15.56	Peak	180.00	150	Vertical	N/A
2**	2445.200	81.41	54.0	-27.41	AV	180.00	150	Vertical	N/A
3	2997.400	50.79	74.0	23.21	Peak	30.00	150	Vertical	Pass
3**	2997.400	42.25	54.0	11.75	AV	30.00	150	Vertical	Pass
4	6977.600	54.66	74.0	19.34	Peak	360.00	100	Vertical	Pass
4**	6977.600	46.30	54.0	7.70	AV	360.00	100	Vertical	Pass
5	11954.487	51.86	74.0	22.14	Peak	231.00	200	Vertical	Pass
5**	11954.487	41.62	54.0	12.38	AV	231.00	200	Vertical	Pass
6	17406.489	54.72	74.0	19.28	Peak	247.00	200	Vertical	Pass
6**	17406.489	45.87	54.0	8.13	AV	247.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H VHT40 Channel 9

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1583.200	42.28	74.0	31.72	Peak	104.00	300	Horizontal	Pass
1**	1583.200	32.47	54.0	21.53	AV	104.00	300	Horizontal	Pass
2	2458.400	94.91	74.0	-20.91	Peak	16.00	150	Horizontal	N/A
2**	2458.400	87.43	54.0	-33.43	AV	16.00	150	Horizontal	N/A
3	2983.400	50.90	74.0	23.10	Peak	117.00	150	Horizontal	Pass
3**	2983.400	42.62	54.0	11.38	AV	117.00	150	Horizontal	Pass
4	6976.000	55.05	74.0	18.95	Peak	36.00	400	Horizontal	Pass
4**	6976.000	46.21	54.0	7.79	AV	36.00	400	Horizontal	Pass
5	10928.687	51.40	74.0	22.60	Peak	47.00	100	Horizontal	Pass
5**	10928.687	42.54	54.0	11.46	AV	47.00	100	Horizontal	Pass
6	17409.374	55.20	74.0	18.80	Peak	52.00	400	Horizontal	Pass
6**	17409.374	45.78	54.0	8.22	AV	52.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V VHT40 Channel 9

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1277.600	41.66	74.0	32.34	Peak	219.00	200	Vertical	Pass
1**	1277.600	31.88	54.0	22.12	AV	219.00	200	Vertical	Pass
2	2454.500	84.34	74.0	-10.34	Peak	178.00	150	Vertical	N/A
2**	2454.500	76.82	54.0	-22.82	AV	178.00	150	Vertical	N/A
3	2960.700	51.11	74.0	22.89	Peak	325.00	150	Vertical	Pass
3**	2960.700	41.78	54.0	12.22	AV	325.00	150	Vertical	Pass
4	6975.000	54.50	74.0	19.50	Peak	295.00	300	Vertical	Pass
4**	6975.000	45.13	54.0	8.87	AV	295.00	300	Vertical	Pass
5	12495.849	51.35	74.0	22.65	Peak	0.00	400	Vertical	Pass
5**	12495.849	42.15	54.0	11.85	AV	0.00	400	Vertical	Pass
6	16355.700	54.73	74.0	19.27	Peak	151.00	200	Vertical	Pass
6**	16355.700	44.51	54.0	9.49	AV	151.00	200	Vertical	Pass

A.7 Band Edge (Restricted-band band-edge)

Note ¹: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Note ²: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

Note ³: 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.

Test Data and Plots

802.11b CHANNEL 1

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2385.450	57.77	74.0	16.23	Peak	191.00	150	Horizontal	Pass
1**	2385.450	46.91	54.0	7.09	AV	191.00	150	Horizontal	Pass
2	2389.950	56.78	74.0	17.22	Peak	86.00	150	Horizontal	Pass
2**	2389.950	47.60	54.0	6.40	AV	86.00	150	Horizontal	Pass

802.11b CHANNEL 11

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.590	57.30	74.0	16.70	Peak	274.00	200	Horizontal	Pass
1**	2483.590	47.61	54.0	6.39	AV	274.00	200	Horizontal	Pass
2	2488.120	58.00	74.0	16.00	Peak	126.00	200	Horizontal	Pass
2**	2488.120	45.86	54.0	8.14	AV	126.00	200	Horizontal	Pass

802.11g CHANNEL 1

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.750	60.70	74.0	13.30	Peak	66.00	150	Horizontal	Pass
1**	2389.750	46.19	54.0	7.81	AV	66.00	150	Horizontal	Pass
2	2389.950	58.19	74.0	15.81	Peak	1.00	100	Horizontal	Pass
2**	2389.950	46.35	54.0	7.65	AV	1.00	100	Horizontal	Pass

802.11g CHANNEL 2

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.800	65.25	74.0	8.75	Peak	336.00	200	Horizontal	Pass
1**	2389.800	51.64	54.0	2.36	AV	336.00	200	Horizontal	Pass
2	2389.950	64.65	74.0	9.35	Peak	336.00	100	Horizontal	Pass
2**	2389.950	51.71	54.0	2.29	AV	336.00	100	Horizontal	Pass

802.11g CHANNEL 10

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.560	67.43	74.0	6.57	Peak	19.00	200	Horizontal	Pass
1**	2483.560	51.46	54.0	2.54	AV	19.00	200	Horizontal	Pass
2	2483.830	69.25	74.0	4.75	Peak	0.00	100	Horizontal	Pass
2**	2483.830	50.88	54.0	3.12	AV	0.00	100	Horizontal	Pass

802.11g CHANNEL 11

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	61.70	74.0	12.30	Peak	79.00	100	Horizontal	Pass
1**	2483.500	46.95	54.0	7.05	AV	79.00	100	Horizontal	Pass
2	2483.995	62.44	74.0	11.56	Peak	281.00	200	Horizontal	Pass
2**	2483.995	47.38	54.0	6.62	AV	281.00	200	Horizontal	Pass

802.11n20 CHANNEL 1

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.350	59.86	74.0	14.14	Peak	89.00	150	Horizontal	Pass
1**	2389.350	46.34	54.0	7.66	AV	89.00	150	Horizontal	Pass
2	2389.950	59.58	74.0	14.42	Peak	62.00	200	Horizontal	Pass
2**	2389.950	46.43	54.0	7.57	AV	62.00	200	Horizontal	Pass

802.11n20 CHANNEL 2

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.750	63.59	74.0	10.41	Peak	8.00	150	Horizontal	Pass
1**	2389.750	50.94	54.0	3.06	AV	8.00	150	Horizontal	Pass
2	2389.950	61.93	74.0	12.07	Peak	125.00	200	Horizontal	Pass
2**	2389.950	51.04	54.0	2.96	AV	125.00	200	Horizontal	Pass

802.11n20 CHANNEL 10

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.560	64.74	74.0	9.26	Peak	67.00	100	Horizontal	Pass
1**	2483.560	49.91	54.0	4.09	AV	67.00	100	Horizontal	Pass
2	2483.935	66.11	74.0	7.89	Peak	12.00	100	Horizontal	Pass
2**	2483.935	49.36	54.0	4.64	AV	12.00	100	Horizontal	Pass

802.11n20 CHANNEL 11

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.530	61.63	74.0	12.37	Peak	272.00	100	Horizontal	Pass
1**	2483.530	47.13	54.0	6.87	AV	272.00	100	Horizontal	Pass
2	2484.040	62.63	74.0	11.37	Peak	74.00	150	Horizontal	Pass
2**	2484.040	47.35	54.0	6.65	AV	74.00	150	Horizontal	Pass

802.11n40 CHANNEL 3

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.750	64.42	74.0	9.58	Peak	11.00	200	Horizontal	Pass
1**	2389.750	47.53	54.0	6.47	AV	11.00	200	Horizontal	Pass
2	2389.950	62.03	74.0	11.97	Peak	71.00	200	Horizontal	Pass
2**	2389.950	47.76	54.0	6.24	AV	71.00	200	Horizontal	Pass

802.11n40 CHANNEL 4

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2388.550	64.50	74.0	9.50	Peak	70.00	200	Horizontal	Pass
1**	2388.550	49.78	54.0	4.22	AV	70.00	200	Horizontal	Pass
2	2389.950	63.21	74.0	10.79	Peak	70.00	150	Horizontal	Pass
2**	2389.950	50.67	54.0	3.33	AV	70.00	150	Horizontal	Pass
3	2388.700	60.25	74.0	13.75	Peak	92.00	150	Horizontal	Pass
3**	2388.700	51.10	54.0	2.90	AV	92.00	150	Horizontal	Pass

802.11n40 CHANNEL 5

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2388.100	65.05	74.0	8.95	Peak	74.00	200	Horizontal	Pass
1**	2388.100	50.97	54.0	3.03	AV	74.00	200	Horizontal	Pass
2	2389.950	62.80	74.0	11.20	Peak	77.00	200	Horizontal	Pass
2**	2389.950	51.44	54.0	2.56	AV	77.00	200	Horizontal	Pass

802.11n40 CHANNEL 6 Left

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.550	65.38	74.0	8.62	Peak	75.00	100	Horizontal	Pass
1**	2389.550	51.23	54.0	2.77	AV	75.00	100	Horizontal	Pass
2	2389.950	61.62	74.0	12.38	Peak	10.00	150	Horizontal	Pass
2**	2389.950	51.26	54.0	2.74	AV	10.00	150	Horizontal	Pass

802.11n40 CHANNEL 6 Right

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	63.05	74.0	10.95	Peak	277.00	150	Horizontal	Pass
1**	2483.500	49.03	54.0	4.97	AV	277.00	150	Horizontal	Pass
2	2483.995	65.61	74.0	8.39	Peak	16.00	200	Horizontal	Pass
2**	2483.995	48.75	54.0	5.25	AV	16.00	200	Horizontal	Pass

802.11n40 CHANNEL 7

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.515	64.01	74.0	9.99	Peak	68.00	150	Horizontal	Pass
1**	2483.515	50.61	54.0	3.39	AV	68.00	150	Horizontal	Pass
2	2483.980	65.80	74.0	8.20	Peak	72.00	200	Horizontal	Pass
2**	2483.980	50.57	54.0	3.43	AV	72.00	200	Horizontal	Pass
3	2483.560	63.58	74.0	10.42	Peak	21.00	150	Horizontal	Pass
3**	2483.560	51.60	54.0	2.40	AV	21.00	150	Horizontal	Pass

802.11n40 CHANNEL 8

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.575	65.62	74.0	8.38	Peak	0.00	200	Horizontal	Pass
1**	2483.575	50.84	54.0	3.16	AV	0.00	200	Horizontal	Pass
2	2484.100	65.18	74.0	8.82	Peak	12.00	100	Horizontal	Pass
2**	2484.100	51.06	54.0	2.94	AV	12.00	100	Horizontal	Pass

802.11n40 CHANNEL 9

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.515	64.10	74.0	9.90	Peak	69.00	100	Horizontal	Pass
1**	2483.515	47.73	54.0	6.27	AV	69.00	100	Horizontal	Pass
2	2484.670	63.30	74.0	10.70	Peak	13.00	200	Horizontal	Pass
2**	2484.670	47.43	54.0	6.57	AV	13.00	200	Horizontal	Pass

VHT20 CHANNEL 1

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.750	69.81	74.0	4.19	Peak	136.00	200	Horizontal	Pass
1**	2389.750	51.80	54.0	2.20	AV	136.00	200	Horizontal	Pass
2	2389.950	68.54	74.0	5.46	Peak	2.00	150	Horizontal	Pass
2**	2389.950	51.74	54.0	2.26	AV	2.00	150	Horizontal	Pass

VHT20 CHANNEL 2

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.300	60.63	74.0	13.37	Peak	292.00	150	Horizontal	Pass
1**	2389.300	48.01	54.0	5.99	AV	292.00	150	Horizontal	Pass
2	2389.950	59.06	74.0	14.94	Peak	71.00	100	Horizontal	Pass
2**	2389.950	48.35	54.0	5.65	AV	71.00	100	Horizontal	Pass

VHT20 CHANNEL 10

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.575	61.24	74.0	12.76	Peak	285.00	100	Horizontal	Pass
1**	2483.575	47.87	54.0	6.13	AV	285.00	100	Horizontal	Pass
2	2485.090	63.73	74.0	10.27	Peak	61.00	150	Horizontal	Pass
2**	2485.090	47.37	54.0	6.63	AV	61.00	150	Horizontal	Pass

VHT20 CHANNEL 11

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.560	69.28	74.0	4.72	Peak	5.00	100	Horizontal	Pass
1**	2483.560	50.72	54.0	3.28	AV	5.00	100	Horizontal	Pass
2	2484.865	70.85	74.0	3.15	Peak	12.00	100	Horizontal	Pass
2**	2484.865	49.55	54.0	4.45	AV	12.00	100	Horizontal	Pass

VHT40 CHANNEL 3

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2388.250	65.65	74.0	8.35	Peak	286.00	200	Horizontal	Pass
1**	2388.250	48.24	54.0	5.76	AV	286.00	200	Horizontal	Pass
2	2389.950	62.55	74.0	11.45	Peak	136.00	150	Horizontal	Pass
2**	2389.950	48.65	54.0	5.35	AV	136.00	150	Horizontal	Pass

VHT40 CHANNEL 4

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2387.500	63.81	74.0	10.19	Peak	274.00	200	Horizontal	Pass
1**	2387.500	49.92	54.0	4.08	AV	274.00	200	Horizontal	Pass
2	2389.950	62.46	74.0	11.54	Peak	91.00	200	Horizontal	Pass
2**	2389.950	50.63	54.0	3.37	AV	91.00	200	Horizontal	Pass

VHT40 CHANNEL 5

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2388.350	64.28	74.0	9.72	Peak	16.00	150	Horizontal	Pass
1**	2388.350	50.77	54.0	3.23	AV	16.00	150	Horizontal	Pass
2	2389.950	63.57	74.0	10.43	Peak	73.00	150	Horizontal	Pass
2**	2389.950	51.46	54.0	2.54	AV	73.00	150	Horizontal	Pass

VHT40 CHANNEL 8

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	63.78	74.0	10.22	Peak	24.00	100	Horizontal	Pass
1**	2483.500	48.75	54.0	5.25	AV	24.00	100	Horizontal	Pass
2	2483.935	65.37	74.0	8.63	Peak	9.00	100	Horizontal	Pass
2**	2483.935	48.00	54.0	6.00	AV	9.00	100	Horizontal	Pass

VHT40 CHANNEL 9

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	65.73	74.0	8.27	Peak	339.00	100	Horizontal	Pass
1**	2483.500	48.59	54.0	5.41	AV	339.00	100	Horizontal	Pass
2	2483.950	65.11	74.0	8.89	Peak	283.00	150	Horizontal	Pass
2**	2483.950	48.37	54.0	5.63	AV	283.00	150	Horizontal	Pass

A.8 Power Spectral Density (PSD)

Test Data

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
CH1	-2.96	8
CH6	-2.87	8
CH11	-6.23	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
CH1	-17.63	8
CH6	-7.98	8
CH11	-16.11	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
CH1	-16.89	8
CH6	-7.15	8
CH11	-16.85	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
CH1	-20.89	8
CH6	-13.73	8
CH11	-22.07	8

VHT-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
CH1	-15.83	8
CH6	-9.34	8
CH11	-14.29	8

VHT-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
CH1	-18.62	8
CH6	-14.46	8
CH11	-19.89	8

Test Plots

802.11b LOW CHANNEL



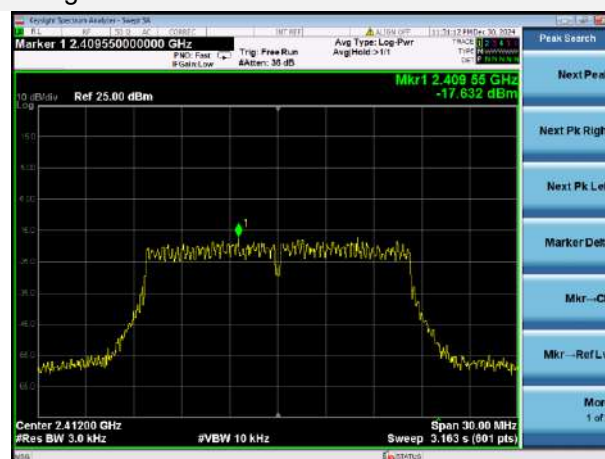
802.11b MIDDLE CHANNEL



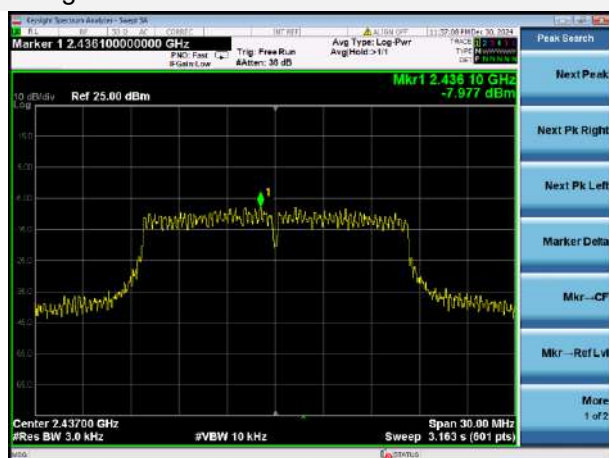
802.11b HIGH CHANNEL



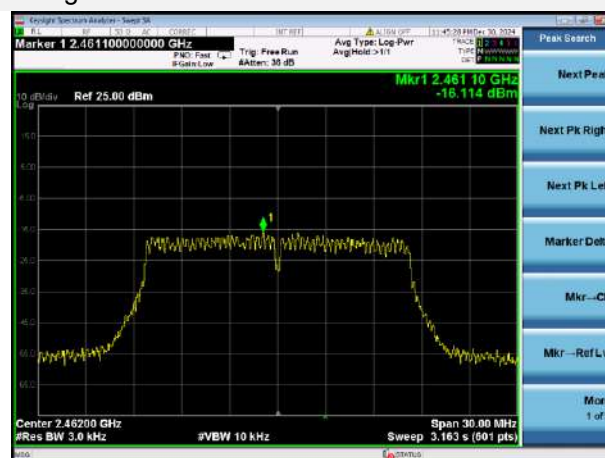
802.11g LOW CHANNEL



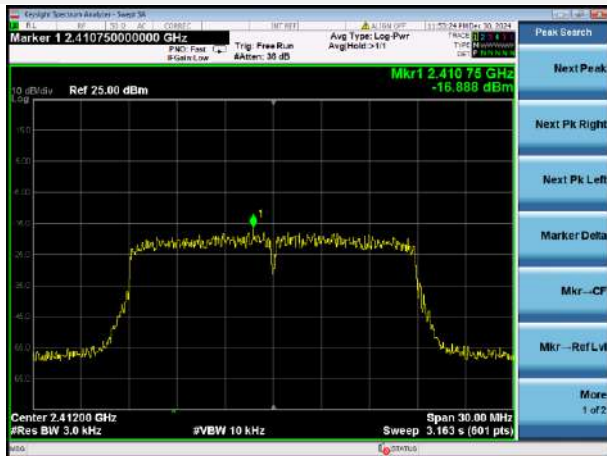
802.11g MIDDLE CHANNEL



802.11g HIGH CHANNEL



802.11n-20 MHz LOW CHANNEL



802.11n-20 MHz MIDDLE CHANNEL



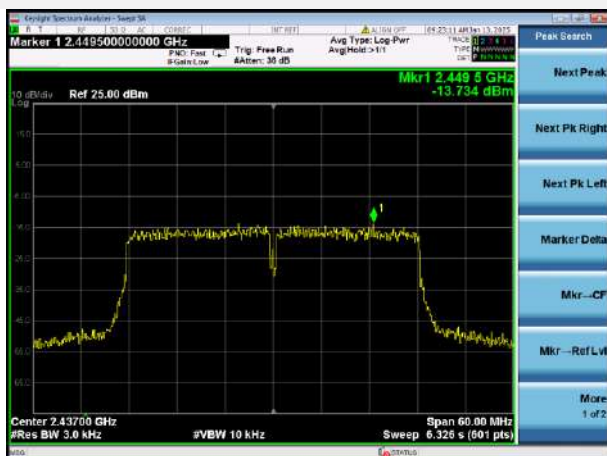
802.11n-20 MHz HIGH CHANNEL



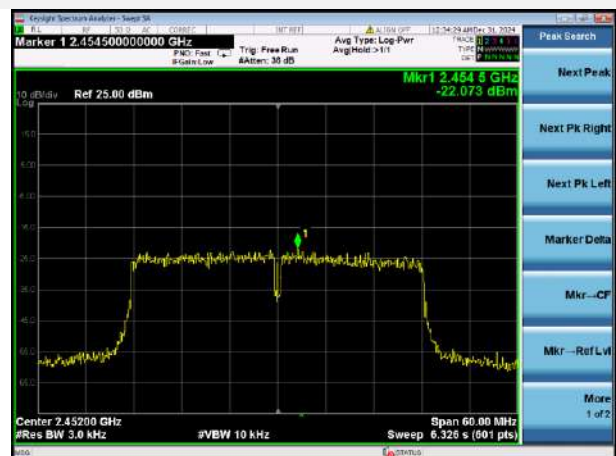
802.11n-40 MHz LOW CHANNEL



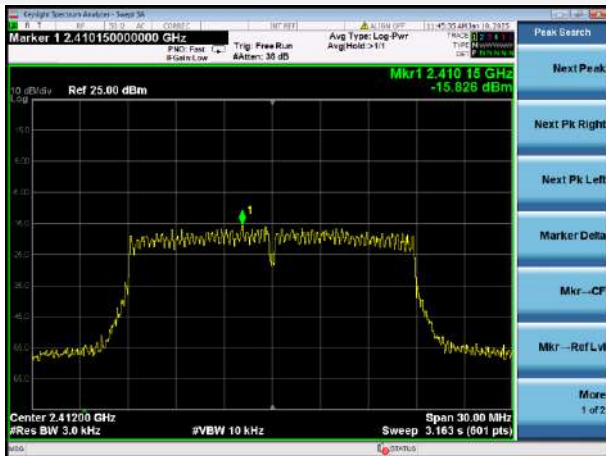
802.11n-40 MHz MIDDLE CHANNEL



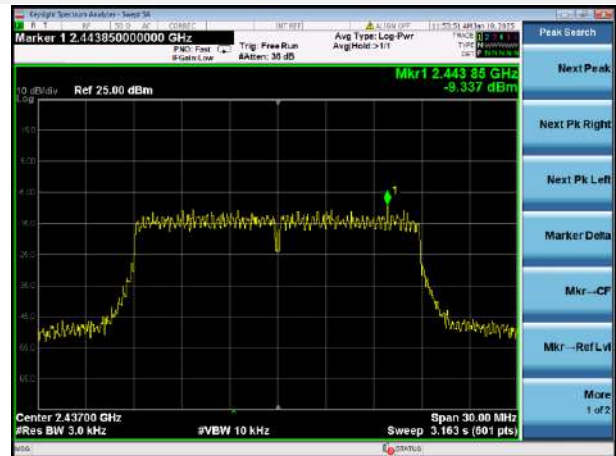
802.11n-40 MHz HIGH CHANNEL



VHT-20 MHz LOW CHANNEL



VHT-20 MHz MIDDLE CHANNEL



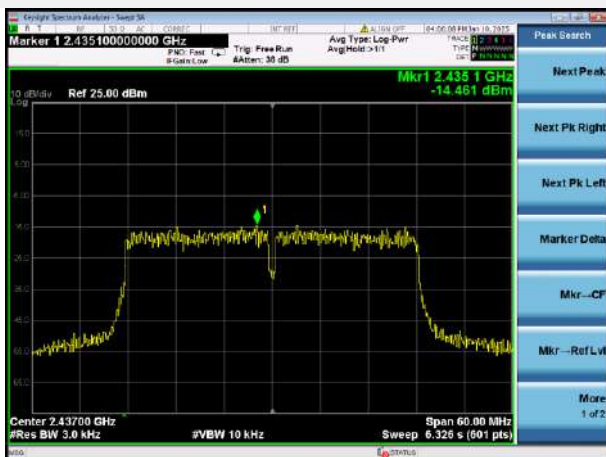
VHT-20 MHz HIGH CHANNEL



VHT-40 MHz LOW CHANNEL



VHT-40 MHz MIDDLE CHANNEL



VHT-40 MHz HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ24C1274-AR-2.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ24C1274-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ24C1274-AI.PDF”.

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--END OF REPORT--