

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

CHOICE FORTUNE HOLDINGS LIMITED

LED TV

Model Number: SC-40FK700N

FCC ID: 2AMYC-SC-40FK700N

| | |
|---------------|---|
| Prepared for: | CHOICE FORTUNE HOLDINGS LIMITED |
| | Room 1315, 13/F, Tin King Estate, Tin Lok House, |
| | Tuen Mun, N.T., HongKong |
| | |
| Prepared By: | EST Technology Co., Ltd. |
| | San Tun Management Zone, Houjie District, Dongguan, China |
| | Tel: 86-769-83081888-808 |

| | |
|-----------------|-----------------------|
| Report Number: | ESTE-R1708121 |
| Date of Test: | June 21~June 30, 2017 |
| Date of Report: | July 03, 2017 |

TABLE OF CONTENTS

| Description | Page |
|--|------|
| TEST REPORT VERIFICATION | 3 |
| 1. GENERAL INFORMATION..... | 5 |
| 1.1. Description of Device (EUT) | 5 |
| 2. SUMMARY OF TEST | 6 |
| 2.1. Summary of test result..... | 6 |
| 2.2. Test Facilities..... | 7 |
| 2.3. Assistant equipment used for test | 8 |
| 2.4. Block Diagram..... | 8 |
| 2.5. Test mode | 9 |
| 2.6. Channel List for wifi | 9 |
| 2.7. Test Equipment..... | 10 |
| 3 POWER LINE CONDUCTED EMISSION TEST | 11 |
| 3.1. Limit | 11 |
| 3.2. Test Procedure | 11 |
| 3.3. Test Result | 11 |
| 3.4. Test data..... | 12 |
| 4 RADIATED EMISSION TEST..... | 14 |
| 4.1 Limit..... | 14 |
| 4.2. Block Diagram of Test setup..... | 15 |
| 4.3. Test Procedure | 16 |
| 4.4. Test Result | 16 |
| 4.5. Test Data..... | 17 |
| 5 BAND EDGE COMPLIANCE TEST | 39 |
| 5.1 Limit | 39 |
| 5.2 Block Diagram of Test setup..... | 39 |
| 5.3 Test Procedure | 39 |
| 5.4 Test Result | 39 |
| 5.5 Test Data..... | 40 |
| 6 6dB & 20dB Bandwidth Test..... | 64 |
| 6.1 Limit | 64 |
| 6.2 Test Procedure for 6dB..... | 64 |
| 6.3 Test Procedure for 20dB..... | 64 |
| 6.4 Test Result | 66 |
| 6.5 6dB Test Data..... | 67 |
| 6.6 20dB Test Data..... | 83 |
| 7 OUTPUT POWER TEST | 99 |
| 7.1 Limit | 99 |
| 7.2 Test Procedure | 99 |
| 7.3 Test Result | 100 |
| 7.4 Test Data..... | 101 |
| 8 POWER SPECTRAL DENSITY TEST..... | 117 |
| 8.1 Limit | 117 |
| 8.2 Test Procedure | 117 |



8.3 Test Result 118

8.4 Test Data..... 119

9 ANTENNA REQUIREMENTS..... 135

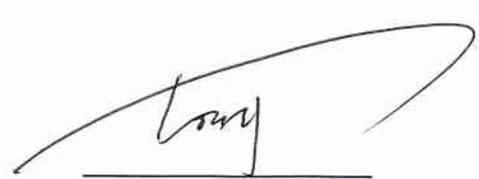
9.1 Limit 135

9.2 Result..... 135

10 TEST SETUP PHOTO 136

11 PHOTOS OF EUT 138

EST Technology Co., Ltd.

| | | | |
|--|--|---|-----------------------|
| Applicant: | CHOICE FORTUNE HOLDINGS LIMITED | | |
| Address: | Room 1315, 13/F, Tin King Estate, Tin Lok House, Tuen Mun, N.T., HongKong | | |
| Manufacturer | CHOICE FORTUNE HOLDINGS LIMITED | | |
| Address: | Room 1315, 13/F, Tin King Estate, Tin Lok House, Tuen Mun, N.T., HongKong | | |
| E.U.T: | LED TV | | |
| Model Number: | SC-40FK700N | | |
| Power Supply: | AC 120V~ 50/60Hz | | |
| Test Voltage: | AC 120V/60Hz | | |
| Trade Name: | SEIKI, SEIKI pro, SEIKI HOME | Serial No.: | ----- |
| Date of Receipt: | June 20, 2017 | Date of Test: | June 21~June 30, 2017 |
| Test Specification: | FCC Rules and Regulations Part 15 Subpart C:2016 ANSI C63.10:2013 | | |
| Test Result: | <p>The device described above is tested by EST Technology Co., Ltd.. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements.</p> <p>This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.</p> | | |
| | | Date: July 03, 2017 | |
| Prepared by: | Reviewed by: | Approved by: | |
|  <hr style="width: 100%;"/> Amy / Assistant |  <hr style="width: 100%;"/> Tony / Engineer |  <hr style="width: 100%;"/> Iceman Hu / Manager | |
| Other Aspects: | None. | | |
| <i>Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested</i> | | | |
| <i>This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.</i> | | | |

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

| | | | | |
|---------------------|---|--|-----------|-----------|
| Product Name | : | LED TV | | |
| Model Number | : | SC-40FK700N | | |
| FCC ID | : | 2AMYC-SC-40FK700N | | |
| Modulation | : | IEEE 802.11b mode: DSSS(CCK,QPSK, BPSK) IEEE 802.11g mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT20 mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT40 mode: OFDM (BPSK/QPSK/16QAM/64QAM) | | |
| Operation Frequency | : | IEEE 802.11b/g: 2412 ~ 2462 MHz IEEE 802.11n HT20 : 2412 ~ 2462 MHz IEEE 802.11n HT40: 2422 ~ 2452 MHz | | |
| Number of channel | : | IEEE 802.11b 2412 ~ 2462 MHz: 11 Channels IEEE 802.11g 2412 ~ 2462 MHz: 11 Channels IEEE 802.11n HT20 2412 ~ 2462 MHz: 11 Channels IEEE 802.11n HT40 2422 ~ 2452 MHz: 7 Channels | | |
| Antenna | : | Internal antenna | | |
| | | Frequency Range | Antenna 0 | Antenna 1 |
| | | 2400~2483.5 MHz | 2.94 dBi | 2.94 dBi |
| | | Directional gain | 5.95dBi | |
| | | Note: 11a,b,g,n uses Antenna 0 / Antenna 1 11n uses MIMO | | |
| Sample Type | : | Prototype production | | |

2. SUMMARY OF TEST

2.1. Summary of test result

| Description of Test Item | Standard | Results |
|--|---|---------|
| Power Line Conducted Emission | FCC Part 15: 15.207 ANSI C63.10:2013 | PASS |
| Radiated Emission | FCC Part 15: 15.209 ANSI C63.10:2013 KDB 558074 | PASS |
| Band Edge Compliance | FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074 | PASS |
| Conducted spurious emissions | FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074 | PASS |
| 6dB Bandwidth | FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074 | PASS |
| Peak Output Power | FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074 | PASS |
| Power Spectral Density | FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074 | PASS |
| Antenna requirement | FCC Part 15: 15.203 | PASS |
| Note: KDB 558074 D01 DTS Meas Guidance v04 | | |

2.2. Test Facilities

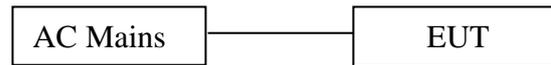
| | | |
|---------------|---|---|
| EMC Lab | : | <p>Certificated by CNAS, CHINA Registration No.: L5288 Date of registration: November 13, 2014</p> <p>Certificated by FCC, USA Registration No.: 989591 Date of registration: November 15, 2016</p> <p>Certificated by Industry Canada Registration No.: 9405A-1 Date of registration: December 30, 2015</p> <p>Certificated by VCCI, Japan Registration No.: R-3663 & C-4103 Date of registration: July 25, 2014</p> <p>Certificated by TUV Rheinland, Germany Registration No.: UA 50195514 0001 Date of registration: February 07, 2015</p> <p>Certificated by TUV/PS, Shenzhen Registration No.: SCN1017 Date of registration: January 27, 2011</p> <p>Certificated by Intertek ETL SEMKO Registration No.: 2011-RTL-L1-18 Date of registration: April 28, 2011</p> <p>Certificated by Siemic, Inc. Registration No.: SLCN021 Date of registration: November 8, 2011</p> <p>Certificated by Nemko, Hong Kong Registration No.: 175193 Date of registration: May 4, 2011</p> |
| Name of Firm | : | EST Technology Co., Ltd. |
| Site Location | : | San Tun Management Zone, Houjie Town, Dongguan, Guangdong, China |

2.3. Assistant equipment used for test

2.3.1. N/A

2.4. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 or 1.5 meter high above ground. EUT was be set into Wi-Fi test mode by software before test.



(EUT: LED TV)

2.5. Test mode

A special test software was used to control EUT work in Continuous TX mode, and select test channel, wireless mode and data rate.

| Test mode | Lower channel | Center channel | Upper channel |
|---|---------------|----------------|---------------|
| IEEE 802.11b;IEEE 802.11g;IEEE 802.11n HT20 Transmitting | 2412MHz | 2437MHz | 2462MHz |
| IEEE 802.11b;IEEE 802.11g;IEEE 802.11n HT20 Receiving | 2412MHz | 2437MHz | 2462MHz |
| IEEE 802.11n HT40 Transmitting | 2422MHz | 2437MHz | 2452MHz |
| IEEE 802.11n HT40 Receiving | 2422MHz | 2437MHz | 2452MHz |

2.6. Channel List for wifi

| IEEE 802.11b;IEEE 802.11g;IEEE 802.11n HT20 | | | | | |
|---|-----------------|---------|-----------------|---------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 1 | 2412 | 6 | 2437 | 11 | 2462 |
| 2 | 2417 | 7 | 2442 | | |
| 3 | 2422 | 8 | 2447 | | |
| 4 | 2427 | 9 | 2452 | | |
| 5 | 2432 | 10 | 2457 | | |
| IEEE 802.11n HT40 | | | | | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 3 | 2422 | 6 | 2437 | 9 | 2452 |
| 4 | 2427 | 7 | 2442 | | |
| 5 | 2432 | 8 | 2447 | | |

2.7. Test Equipment

2.7.1. For conducted emission test

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|--------------------------|-----------------|-----------|------------|------------|-----------|
| EMI Test Receiver | Rohde & Schwarz | ESHS30 | 832354 | June 17,17 | 1 Year |
| Artificial Mains Network | Rohde & Schwarz | ENV216 | 101260 | June 17,17 | 1 Year |
| Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 101100 | June 17,17 | 1 Year |

2.7.2. For radiated emission test(9 kHz-30MHz)

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|-------------------|-----------------|-----------|------------------|------------|-----------|
| EMI Test Receiver | Rohde & Schwarz | ESCI | 100435 | June 17,17 | 1 Year |
| Loop Antenna | ETS-LINDGREN | 6502 | 00071730 | June 08,17 | 1 Year |
| RF Cable | MIYAZAKI | 5D-2W | 966 Chamber No.1 | June 17,17 | 1 Year |

2.7.3. For radiated emissions test (30-1000MHz)

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|-------------------|-----------------|-----------|------------------|------------|-----------|
| EMI Test Receiver | Rohde & Schwarz | ESVS10 | 100004 | June 17,17 | 1 Year |
| Spectrum Analyzer | Agilent | E4411B | MY50140697 | June 17,17 | 1 Year |
| Bilog Antenna | Teseq | CBL 6111D | 27090 | June 08,17 | 1 Year |
| Signal Amplifier | Agilent | 310N | 187037 | June 17,17 | 1 Year |
| RF Cable | MIYAZAKI | 5D-2W | 966 Chamber No.1 | June 17,17 | 1 Year |

2.7.4. For radiated emission test(above 1GHz)

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|-----------------------|---------------------|-------------|---------------|------------|-----------|
| Horn Antenna | SCHWARZBECK | BBHA 9120 D | BBHA9120D1002 | June 08,17 | 1 Year |
| Board-Band Antenna | Horn SCHWARZBECK | BBHA 9170 | 9170-497 | June 08,17 | 1 Year |
| Signal Amplifier | SCHWARZBECK | BBV9718 | 9718-212 | June 17,17 | 1 Year |
| Spectrum Analyzer | Agilent | E4408B | MY44211139 | June 17,17 | 1 Year |
| Spectrum Analyzer | Rohde &Schwarz | FSV | 103173 | June 17,17 | 1 Year |
| RF Cable | Hubersuhner | RG 214/U | 513423 | June 17,17 | 1 Year |

3 POWER LINE CONDUCTED EMISSION TEST

3.1. Limit

| Frequency | Maximum RF Line Voltage | |
|-----------------|----------------------------------|-------------------------------|
| | Quasi-Peak Level dB(μ V) | Average Level dB(μ V) |
| 150kHz ~ 500kHz | 66 ~ 56* | 56 ~ 46* |
| 500kHz ~ 5MHz | 56 | 46 |
| 5MHz ~ 30MHz | 60 | 50 |

Notes: 1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

3.2. Test Procedure

The EUT was placed on a non-metallic table, 10cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.

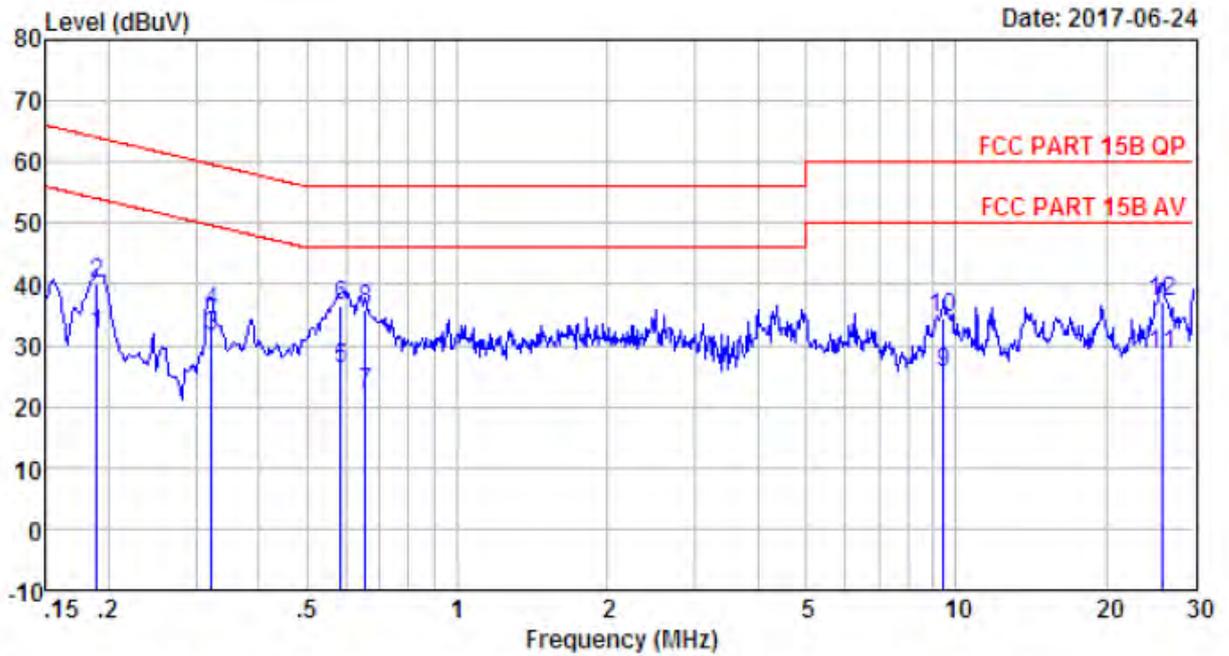
The bandwidth of test receiver (R & S ESHS30) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked.

3.3. Test Result

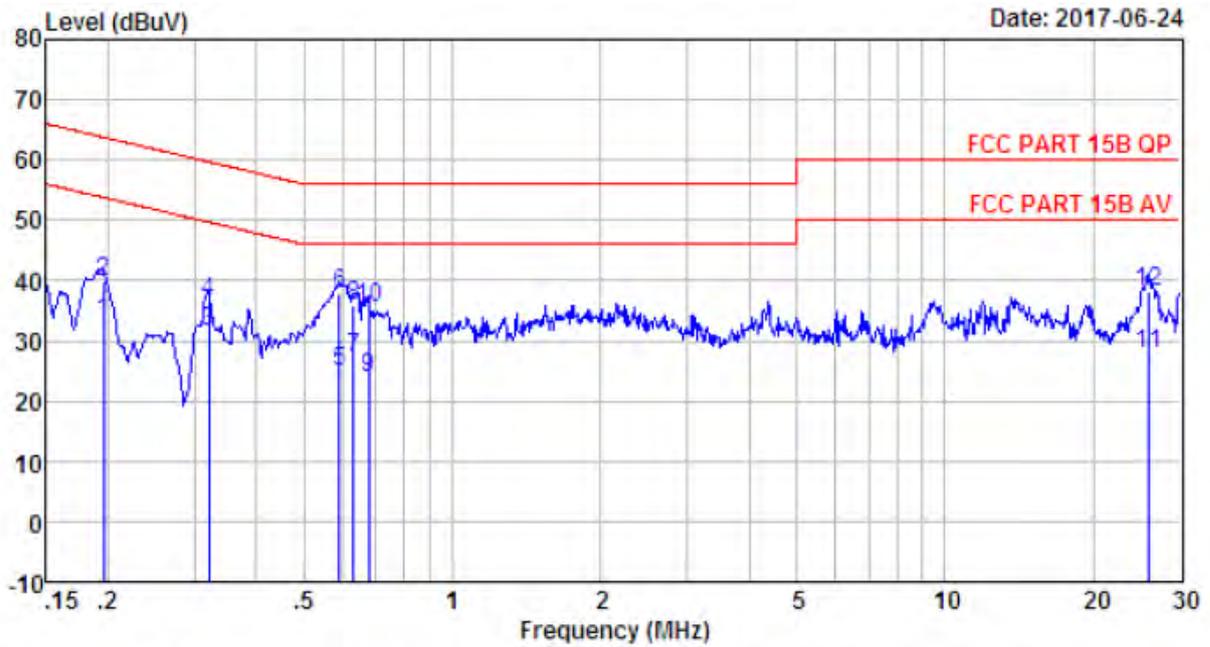
PASS.

3.4. Test data



Site no : 2# Contuction Shield Room Data no. : 125
 Env. / Ins. : Temp:25.6'C Humi:54.0% Press:101.50kPaINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : TX Mode

| | Freq. (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1 | 0.19 | 9.61 | 9.80 | 12.37 | 31.78 | 54.06 | 22.28 | Average |
| 2 | 0.19 | 9.61 | 9.80 | 20.64 | 40.05 | 64.06 | 24.01 | QP |
| 3 | 0.32 | 9.61 | 9.83 | 12.21 | 31.65 | 49.66 | 18.01 | Average |
| 4 | 0.32 | 9.61 | 9.83 | 16.11 | 35.55 | 59.66 | 24.11 | QP |
| 5 | 0.59 | 9.60 | 9.82 | 6.66 | 26.08 | 46.00 | 19.92 | Average |
| 6 | 0.59 | 9.60 | 9.82 | 17.02 | 36.44 | 56.00 | 19.56 | QP |
| 7 | 0.65 | 9.59 | 9.81 | 2.88 | 22.28 | 46.00 | 23.72 | Average |
| 8 | 0.65 | 9.59 | 9.81 | 16.49 | 35.89 | 56.00 | 20.11 | QP |
| 9 | 9.45 | 9.66 | 9.88 | 6.08 | 25.62 | 50.00 | 24.38 | Average |
| 10 | 9.45 | 9.66 | 9.88 | 14.90 | 34.44 | 60.00 | 25.56 | QP |
| 11 | 25.86 | 9.68 | 10.03 | 8.81 | 28.52 | 50.00 | 21.48 | Average |
| 12 | 25.86 | 9.68 | 10.03 | 17.57 | 37.28 | 60.00 | 22.72 | QP |



Site no : 2# Contuction Shield Room Data no. : 127
 Env. / Ins. : Temp:25.6'C Humi:54.0% Press:101.50kPa INE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IX Mode

| | Freq. (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|----|-------------|------------------|-----------------|----------------|-----------------------|---------------|-------------|---------|
| 1 | 0.20 | 9.59 | 9.80 | 13.87 | 33.26 | 53.80 | 20.54 | Average |
| 2 | 0.20 | 9.59 | 9.80 | 20.43 | 39.82 | 63.80 | 23.98 | QP |
| 3 | 0.32 | 9.59 | 9.83 | 12.16 | 31.58 | 49.71 | 18.13 | Average |
| 4 | 0.32 | 9.59 | 9.83 | 17.02 | 36.44 | 59.71 | 23.27 | QP |
| 5 | 0.59 | 9.61 | 9.82 | 5.58 | 25.01 | 46.00 | 20.99 | Average |
| 6 | 0.59 | 9.61 | 9.82 | 18.43 | 37.86 | 56.00 | 18.14 | QP |
| 7 | 0.63 | 9.62 | 9.81 | 7.86 | 27.29 | 46.00 | 18.71 | Average |
| 8 | 0.63 | 9.62 | 9.81 | 16.25 | 35.68 | 56.00 | 20.32 | QP |
| 9 | 0.68 | 9.63 | 9.81 | 4.55 | 23.99 | 46.00 | 22.01 | Average |
| 10 | 0.68 | 9.63 | 9.81 | 16.04 | 35.48 | 56.00 | 20.52 | QP |
| 11 | 25.86 | 9.81 | 10.03 | 8.13 | 27.97 | 50.00 | 22.03 | Average |
| 12 | 25.86 | 9.81 | 10.03 | 18.35 | 38.19 | 60.00 | 21.81 | QP |

4 RADIATED EMISSION TEST

4.1 Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

15.205 Restricted frequency band

| MHz | MHz | MHz | GHz |
|----------------------------|-----------------------|-----------------|------------------|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| ¹ 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.52475 - 156.52525 | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.7 - 156.9 | 2690 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 162.0125 - 167.17 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 167.72 - 173.2 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 240 - 285 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 322 - 335.4 | 3600 - 4400 | (²) |

15.209 Limit

| Frequency (MHz) | Field Strength(μ V/m) | Distance(m) |
|-----------------|----------------------------|-------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

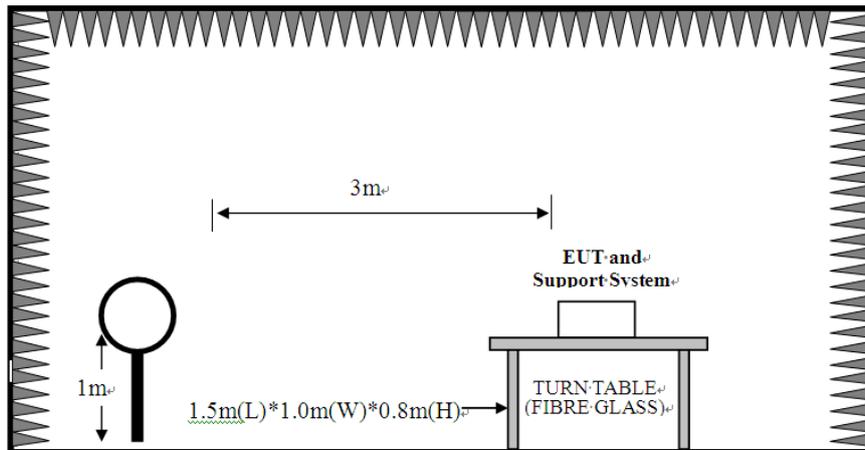
Remark : (1) Emission level $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$

(2) The smaller limit shall apply at the cross point between two frequency bands.

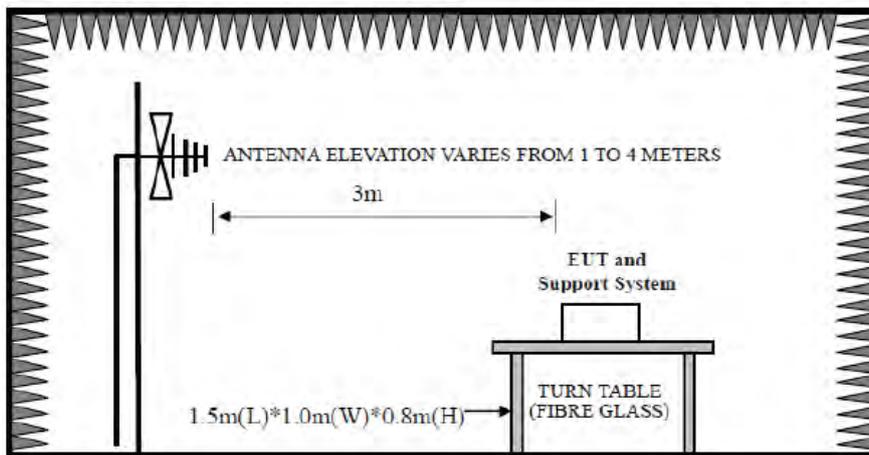
(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.2. Block Diagram of Test setup

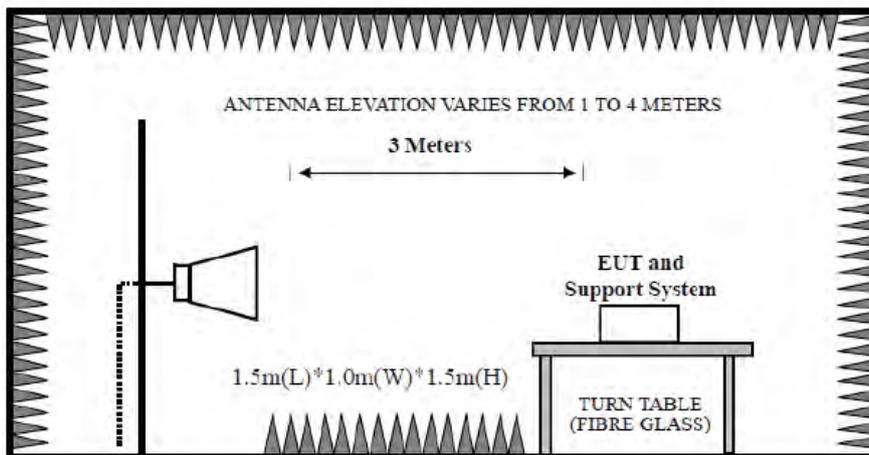
9kHz~30MHz



30~1000MHz



Above 1GHz



4.3. Test Procedure

EUT was placed on a turn table, which is 0.8 meter high above ground for 9kHz~1000MHz test, and which is 1.5 meter high above ground for above 1GHz test. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

The test frequency analyzer system was set to Peak Detect (300Hz RBW in 9kHz to 150kHz and 10kHz RBW in 150kHz to 30MHz) Function and Specified Bandwidth with Maximum Hold Mode.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 1MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

PEAK detector, 1MHz/1MHz for PAEK measurement,
PEAK detector, 1MHz/10Hz for Average measurement

The frequency range from 30MHz to 10th harmonic (25GHz) are checked.

4.4. Test Result

PASS.

- Note: 1、 For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
- 2、 The frequency 2412MHz、 2422MHz、 2437MHz、 2452MHz and 2462 MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

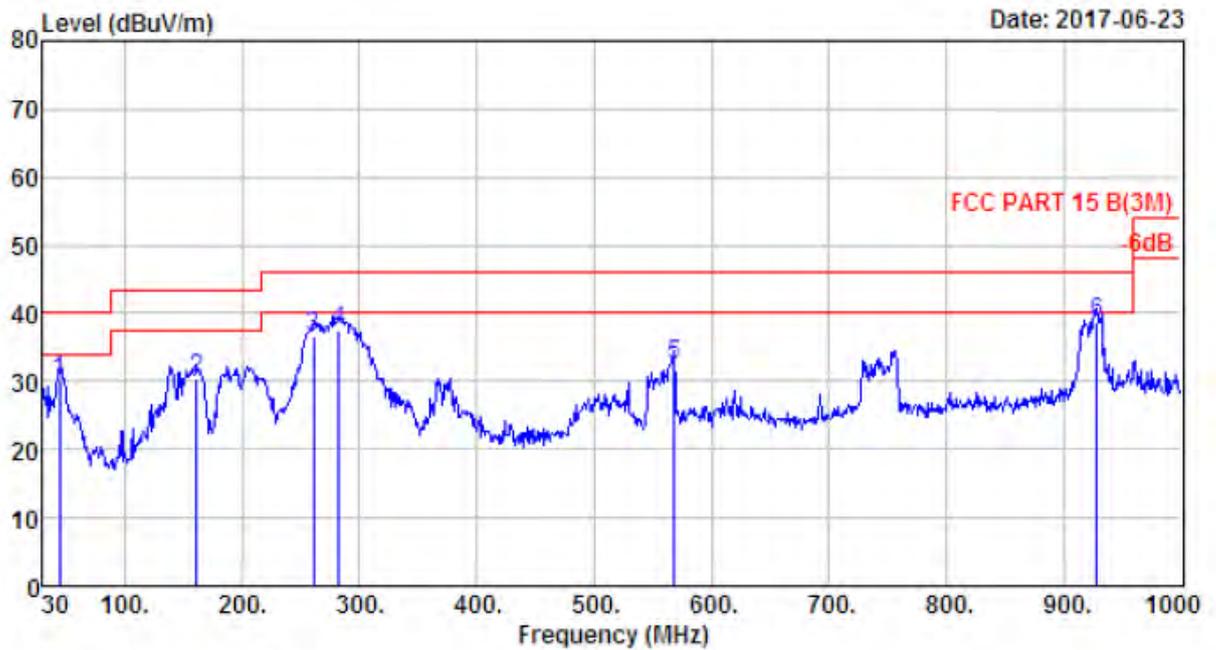
4.5. Test Data

9 kHz – 30 MHz

Pass

Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

30-1000 MHz



Site no. : 1# 966 Chamber Data no. : 181
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:25.2';Humi:53%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : TX Mode

| | Freq. (MHz) | ANT Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 44.550 | 10.07 | 0.85 | 19.20 | 30.12 | 40.00 | 9.88 | QP |
| 2 | 160.950 | 10.24 | 1.70 | 18.50 | 30.44 | 43.50 | 13.06 | QP |
| 3 | 260.860 | 12.96 | 2.22 | 21.52 | 36.70 | 46.00 | 9.30 | QP |
| 4 | 282.200 | 12.45 | 2.33 | 22.72 | 37.50 | 46.00 | 8.50 | QP |
| 5 | 568.350 | 19.62 | 3.24 | 9.58 | 32.44 | 46.00 | 13.56 | QP |
| 6 | 928.220 | 24.32 | 4.49 | 9.93 | 38.74 | 46.00 | 7.26 | QP |

1000-18000 MHz

Site no. : site Data no. : 1
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11b CH1 2412TX
 Antenna 0

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2412.00 | 27.60 | 6.64 | 34.15 | 88.63 | 88.72 | 74.00 | -14.72 | Peak |
| 2 | 4824.00 | 31.28 | 11.84 | 31.83 | 29.07 | 40.36 | 74.00 | 33.64 | Peak |
| 3 | 7236.00 | 36.53 | 11.55 | 32.07 | 27.12 | 43.13 | 74.00 | 30.87 | Peak |
| 4 | 7970.00 | 36.94 | 11.41 | 31.25 | 27.71 | 44.81 | 74.00 | 29.19 | Peak |
| 5 | 9636.00 | 37.96 | 11.68 | 31.91 | 26.33 | 44.06 | 74.00 | 29.94 | Peak |
| 6 | 14345.00 | 41.76 | 10.92 | 32.93 | 24.31 | 44.06 | 74.00 | 29.94 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 2
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11b CH1 2412TX
 Antenna 0

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2412.00 | 27.60 | 6.64 | 34.15 | 93.66 | 93.75 | 74.00 | -19.75 | Peak |
| 2 | 4824.00 | 31.28 | 11.84 | 31.83 | 32.45 | 43.74 | 74.00 | 30.26 | Peak |
| 3 | 7236.00 | 36.53 | 11.55 | 32.07 | 26.85 | 42.86 | 74.00 | 31.14 | Peak |
| 4 | 7885.00 | 36.78 | 11.45 | 31.33 | 28.76 | 45.66 | 74.00 | 28.34 | Peak |
| 5 | 10146.00 | 38.36 | 11.51 | 32.05 | 25.96 | 43.78 | 74.00 | 30.22 | Peak |
| 6 | 14464.00 | 41.85 | 10.93 | 32.96 | 22.92 | 42.74 | 74.00 | 31.26 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 5
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11b CH6 2437TX
 Antenna 0

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2437.00 | 27.60 | 6.67 | 34.12 | 91.70 | 91.85 | 74.00 | -17.85 | Peak |
| 2 | 4874.00 | 31.37 | 12.07 | 31.90 | 30.67 | 42.21 | 74.00 | 31.79 | Peak |
| 3 | 7311.00 | 36.55 | 11.57 | 31.99 | 28.92 | 45.05 | 74.00 | 28.95 | Peak |
| 4 | 8055.00 | 36.91 | 11.41 | 31.31 | 28.49 | 45.50 | 74.00 | 28.50 | Peak |
| 5 | 10384.00 | 38.77 | 11.38 | 32.50 | 27.19 | 44.84 | 74.00 | 29.16 | Peak |
| 6 | 14396.00 | 41.79 | 10.92 | 32.83 | 25.03 | 44.91 | 74.00 | 29.09 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 6
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11b CH6 2437TX
 Antenna 0

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2437.00 | 27.60 | 6.67 | 34.12 | 88.02 | 88.17 | 74.00 | -14.17 | Peak |
| 2 | 4874.00 | 31.37 | 12.07 | 31.90 | 33.28 | 44.82 | 74.00 | 29.18 | Peak |
| 3 | 7311.00 | 36.55 | 11.57 | 31.99 | 28.44 | 44.57 | 74.00 | 29.43 | Peak |
| 4 | 8004.00 | 37.01 | 11.40 | 31.22 | 28.61 | 45.80 | 74.00 | 28.20 | Peak |
| 5 | 9415.00 | 38.07 | 11.67 | 31.99 | 26.62 | 44.37 | 74.00 | 29.63 | Peak |
| 6 | 14430.00 | 41.82 | 10.93 | 32.84 | 24.53 | 44.44 | 74.00 | 29.56 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 7
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUI : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11b CH11 2462TX
 Antenna 0

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2462.00 | 27.58 | 6.69 | 34.06 | 88.68 | 88.89 | 74.00 | -14.89 | Peak |
| 2 | 4924.00 | 31.45 | 12.29 | 31.95 | 29.41 | 41.20 | 74.00 | 32.80 | Peak |
| 3 | 7386.00 | 36.57 | 11.59 | 31.97 | 27.74 | 43.93 | 74.00 | 30.07 | Peak |
| 4 | 7834.00 | 36.68 | 11.47 | 31.40 | 27.89 | 44.64 | 74.00 | 29.36 | Peak |
| 5 | 10265.00 | 38.56 | 11.44 | 32.27 | 26.67 | 44.40 | 74.00 | 29.60 | Peak |
| 6 | 14413.00 | 41.80 | 10.92 | 32.78 | 24.38 | 44.32 | 74.00 | 29.68 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 8
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUI : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11b CH11 2462TX
 Antenna 0

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2462.00 | 27.58 | 6.69 | 34.06 | 93.97 | 94.18 | 74.00 | -20.18 | Peak |
| 2 | 4924.00 | 31.45 | 12.29 | 31.95 | 30.21 | 42.00 | 74.00 | 32.00 | Peak |
| 3 | 7386.00 | 36.57 | 11.59 | 31.97 | 28.02 | 44.21 | 74.00 | 29.79 | Peak |
| 4 | 8684.00 | 37.32 | 11.45 | 32.43 | 28.34 | 44.68 | 74.00 | 29.32 | Peak |
| 5 | 10214.00 | 38.48 | 11.47 | 32.17 | 26.25 | 44.03 | 74.00 | 29.97 | Peak |
| 6 | 14345.00 | 41.76 | 10.92 | 32.93 | 25.70 | 45.45 | 74.00 | 28.55 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 11
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11g CH1 2412TX
 Antenna 0

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2412.00 | 27.60 | 6.64 | 34.15 | 88.31 | 88.40 | 74.00 | -14.40 | Peak |
| 2 | 4824.00 | 31.28 | 11.84 | 31.83 | 30.55 | 41.84 | 74.00 | 32.16 | Peak |
| 3 | 7236.00 | 36.53 | 11.55 | 32.07 | 27.49 | 43.50 | 74.00 | 30.50 | Peak |
| 4 | 8055.00 | 36.91 | 11.41 | 31.31 | 28.52 | 45.53 | 74.00 | 28.47 | Peak |
| 5 | 10095.00 | 38.27 | 11.53 | 31.95 | 26.75 | 44.60 | 74.00 | 29.40 | Peak |
| 6 | 14294.00 | 41.71 | 10.92 | 33.08 | 24.94 | 44.49 | 74.00 | 29.51 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 12
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11g CH1 2412TX
 Antenna 0

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2412.00 | 27.60 | 6.64 | 34.15 | 91.73 | 91.82 | 74.00 | -17.82 | Peak |
| 2 | 4824.00 | 31.28 | 11.84 | 31.83 | 32.65 | 43.94 | 74.00 | 30.06 | Peak |
| 3 | 7236.00 | 36.53 | 11.55 | 32.07 | 27.28 | 43.29 | 74.00 | 30.71 | Peak |
| 4 | 8055.00 | 36.91 | 11.41 | 31.31 | 28.64 | 45.65 | 74.00 | 28.35 | Peak |
| 5 | 10180.00 | 38.42 | 11.49 | 32.11 | 27.39 | 45.19 | 74.00 | 28.81 | Peak |
| 6 | 14294.00 | 41.71 | 10.92 | 33.08 | 24.68 | 44.23 | 74.00 | 29.77 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 15
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11g CH6 2437TX
 Antenna 0

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2437.00 | 27.60 | 6.67 | 34.12 | 88.57 | 88.72 | 74.00 | -14.72 | Peak |
| 2 | 4874.00 | 31.37 | 12.07 | 31.90 | 30.23 | 41.77 | 74.00 | 32.23 | Peak |
| 3 | 7311.00 | 36.55 | 11.57 | 31.99 | 27.84 | 43.97 | 74.00 | 30.03 | Peak |
| 4 | 8004.00 | 37.01 | 11.40 | 31.22 | 27.05 | 44.24 | 74.00 | 29.76 | Peak |
| 5 | 10180.00 | 38.42 | 11.49 | 32.11 | 25.85 | 43.65 | 74.00 | 30.35 | Peak |
| 6 | 14260.00 | 41.68 | 10.92 | 33.19 | 24.75 | 44.16 | 74.00 | 29.84 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 16
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11g CH6 2437TX
 Antenna 0

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2437.00 | 27.60 | 6.67 | 34.12 | 90.65 | 90.80 | 74.00 | -16.80 | Peak |
| 2 | 4874.00 | 31.37 | 12.07 | 31.90 | 30.70 | 42.24 | 74.00 | 31.76 | Peak |
| 3 | 7311.00 | 36.55 | 11.57 | 31.99 | 27.77 | 43.90 | 74.00 | 30.10 | Peak |
| 4 | 7970.00 | 36.94 | 11.41 | 31.25 | 27.77 | 44.87 | 74.00 | 29.13 | Peak |
| 5 | 10095.00 | 38.27 | 11.53 | 31.95 | 26.10 | 43.95 | 74.00 | 30.05 | Peak |
| 6 | 14294.00 | 41.71 | 10.92 | 33.08 | 24.78 | 44.33 | 74.00 | 29.67 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 17
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11g CH11 2462TX
 Antenna 0

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2462.00 | 27.58 | 6.69 | 34.06 | 92.05 | 92.26 | 74.00 | -18.26 | Peak |
| 2 | 4924.00 | 31.45 | 12.29 | 31.95 | 29.78 | 41.57 | 74.00 | 32.43 | Peak |
| 3 | 7386.00 | 36.57 | 11.59 | 31.97 | 27.54 | 43.73 | 74.00 | 30.27 | Peak |
| 4 | 7834.00 | 36.68 | 11.47 | 31.40 | 27.49 | 44.24 | 74.00 | 29.76 | Peak |
| 5 | 10265.00 | 38.56 | 11.44 | 32.27 | 26.91 | 44.64 | 74.00 | 29.36 | Peak |
| 6 | 14464.00 | 41.85 | 10.93 | 32.96 | 25.00 | 44.82 | 74.00 | 29.18 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 18
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11g CH11 2462TX
 Antenna 0

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2462.00 | 27.58 | 6.69 | 34.06 | 87.86 | 88.07 | 74.00 | -14.07 | Peak |
| 2 | 4924.00 | 31.45 | 12.29 | 31.95 | 29.74 | 41.53 | 74.00 | 32.47 | Peak |
| 3 | 7386.00 | 36.57 | 11.59 | 31.97 | 27.68 | 43.87 | 74.00 | 30.13 | Peak |
| 4 | 7834.00 | 36.68 | 11.47 | 31.40 | 28.34 | 45.09 | 74.00 | 28.91 | Peak |
| 5 | 10095.00 | 38.27 | 11.53 | 31.95 | 26.40 | 44.25 | 74.00 | 29.75 | Peak |
| 6 | 14226.00 | 41.66 | 10.91 | 33.29 | 25.28 | 44.56 | 74.00 | 29.44 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 21
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11b CH1 2412TX
 Antenna 1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2412.00 | 27.60 | 6.64 | 34.15 | 93.72 | 93.81 | 74.00 | -19.81 | Peak |
| 2 | 4824.00 | 31.28 | 11.84 | 31.83 | 33.97 | 45.26 | 74.00 | 28.74 | Peak |
| 3 | 7236.00 | 36.53 | 11.55 | 32.07 | 28.21 | 44.22 | 74.00 | 29.78 | Peak |
| 4 | 7460.00 | 36.52 | 11.61 | 31.91 | 30.34 | 46.56 | 74.00 | 27.44 | Peak |
| 5 | 9636.00 | 37.96 | 11.68 | 31.91 | 27.04 | 44.77 | 74.00 | 29.23 | Peak |
| 6 | 14464.00 | 41.85 | 10.93 | 32.96 | 24.52 | 44.34 | 74.00 | 29.66 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 22
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11b CH1 2412TX
 Antenna 1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2412.00 | 27.60 | 6.64 | 34.15 | 89.15 | 89.24 | 74.00 | -15.24 | Peak |
| 2 | 4824.00 | 31.28 | 11.84 | 31.83 | 30.72 | 42.01 | 74.00 | 31.99 | Peak |
| 3 | 7236.00 | 36.53 | 11.55 | 32.07 | 28.38 | 44.39 | 74.00 | 29.61 | Peak |
| 4 | 8055.00 | 36.91 | 11.41 | 31.31 | 28.29 | 45.30 | 74.00 | 28.70 | Peak |
| 5 | 10265.00 | 38.56 | 11.44 | 32.27 | 26.85 | 44.58 | 74.00 | 29.42 | Peak |
| 6 | 13954.00 | 41.35 | 10.96 | 34.13 | 26.16 | 44.34 | 74.00 | 29.66 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 25
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUI : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11b CH6 2437TX
 Antenna 1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2437.00 | 27.60 | 6.67 | 34.12 | 91.73 | 91.88 | 74.00 | -17.88 | Peak |
| 2 | 4874.00 | 31.37 | 12.07 | 31.90 | 28.28 | 39.82 | 74.00 | 34.18 | Peak |
| 3 | 7311.00 | 36.55 | 11.57 | 31.99 | 26.59 | 42.72 | 74.00 | 31.28 | Peak |
| 4 | 8004.00 | 37.01 | 11.40 | 31.22 | 26.83 | 44.02 | 74.00 | 29.98 | Peak |
| 5 | 10945.00 | 39.46 | 11.29 | 33.55 | 26.77 | 43.97 | 74.00 | 30.03 | Peak |
| 6 | 14175.00 | 41.61 | 10.91 | 33.44 | 25.36 | 44.44 | 74.00 | 29.56 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 26
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUI : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11b CH6 2437TX
 Antenna 1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2437.00 | 27.60 | 6.67 | 34.12 | 89.51 | 89.66 | 74.00 | -15.66 | Peak |
| 2 | 4874.00 | 31.37 | 12.07 | 31.90 | 31.04 | 42.58 | 74.00 | 31.42 | Peak |
| 3 | 7311.00 | 36.55 | 11.57 | 31.99 | 28.79 | 44.92 | 74.00 | 29.08 | Peak |
| 4 | 7834.00 | 36.68 | 11.47 | 31.40 | 29.03 | 45.78 | 74.00 | 28.22 | Peak |
| 5 | 10180.00 | 38.42 | 11.49 | 32.11 | 27.01 | 44.81 | 74.00 | 29.19 | Peak |
| 6 | 14345.00 | 41.76 | 10.92 | 32.93 | 23.80 | 43.55 | 74.00 | 30.45 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 27
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11b CH11 2462TX
 Antenna 1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2462.00 | 27.58 | 6.69 | 34.06 | 88.81 | 89.02 | 74.00 | -15.02 | Peak |
| 2 | 4924.00 | 31.45 | 12.29 | 31.95 | 29.48 | 41.27 | 74.00 | 32.73 | Peak |
| 3 | 7386.00 | 36.57 | 11.59 | 31.97 | 27.74 | 43.93 | 74.00 | 30.07 | Peak |
| 4 | 8225.00 | 36.66 | 11.42 | 31.48 | 28.34 | 44.94 | 74.00 | 29.06 | Peak |
| 5 | 10010.00 | 38.12 | 11.58 | 31.79 | 25.89 | 43.80 | 74.00 | 30.20 | Peak |
| 6 | 14396.00 | 41.79 | 10.92 | 32.83 | 23.46 | 43.34 | 74.00 | 30.66 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 28
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11b CH11 2462TX
 Antenna 1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2462.00 | 27.58 | 6.69 | 34.06 | 93.52 | 93.73 | 74.00 | -19.73 | Peak |
| 2 | 4924.00 | 31.45 | 12.29 | 31.95 | 32.38 | 44.17 | 74.00 | 29.83 | Peak |
| 3 | 7386.00 | 36.57 | 11.59 | 31.97 | 28.15 | 44.34 | 74.00 | 29.66 | Peak |
| 4 | 7970.00 | 36.94 | 11.41 | 31.25 | 28.10 | 45.20 | 74.00 | 28.80 | Peak |
| 5 | 10180.00 | 38.42 | 11.49 | 32.11 | 26.37 | 44.17 | 74.00 | 29.83 | Peak |
| 6 | 14430.00 | 41.82 | 10.93 | 32.84 | 23.68 | 43.59 | 74.00 | 30.41 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 31
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11g CH1 2412TX
 Antenna 1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2412.00 | 27.60 | 6.64 | 34.15 | 88.37 | 88.46 | 74.00 | -14.46 | Peak |
| 2 | 4824.00 | 31.28 | 11.84 | 31.83 | 30.12 | 41.41 | 74.00 | 32.59 | Peak |
| 3 | 7236.00 | 36.53 | 11.55 | 32.07 | 26.18 | 42.19 | 74.00 | 31.81 | Peak |
| 4 | 8004.00 | 37.01 | 11.40 | 31.22 | 27.75 | 44.94 | 74.00 | 29.06 | Peak |
| 5 | 10265.00 | 38.56 | 11.44 | 32.27 | 27.61 | 45.34 | 74.00 | 28.66 | Peak |
| 6 | 14430.00 | 41.82 | 10.93 | 32.84 | 25.08 | 44.99 | 74.00 | 29.01 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 32
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11g CH1 2412TX
 Antenna 1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2412.00 | 27.60 | 6.64 | 34.15 | 92.29 | 92.38 | 74.00 | -18.38 | Peak |
| 2 | 4824.00 | 31.28 | 11.84 | 31.83 | 30.87 | 42.16 | 74.00 | 31.84 | Peak |
| 3 | 7236.00 | 36.53 | 11.55 | 32.07 | 27.47 | 43.48 | 74.00 | 30.52 | Peak |
| 4 | 8004.00 | 37.01 | 11.40 | 31.22 | 27.21 | 44.40 | 74.00 | 29.60 | Peak |
| 5 | 10180.00 | 38.42 | 11.49 | 32.11 | 26.58 | 44.38 | 74.00 | 29.62 | Peak |
| 6 | 14464.00 | 41.85 | 10.93 | 32.96 | 25.27 | 45.09 | 74.00 | 28.91 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 35
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11g CH6 2437TX
 Antenna 1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2437.00 | 27.60 | 6.67 | 34.12 | 87.70 | 87.85 | 74.00 | -13.85 | Peak |
| 2 | 4874.00 | 31.37 | 12.07 | 31.90 | 31.92 | 43.46 | 74.00 | 30.54 | Peak |
| 3 | 7311.00 | 36.55 | 11.57 | 31.99 | 28.30 | 44.43 | 74.00 | 29.57 | Peak |
| 4 | 8004.00 | 37.01 | 11.40 | 31.22 | 28.41 | 45.60 | 74.00 | 28.40 | Peak |
| 5 | 9126.00 | 37.62 | 11.52 | 32.41 | 28.81 | 45.54 | 74.00 | 28.46 | Peak |
| 6 | 14294.00 | 41.71 | 10.92 | 33.08 | 25.72 | 45.27 | 74.00 | 28.73 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 36
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11g CH6 2437TX
 Antenna 1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2437.00 | 27.60 | 6.67 | 34.12 | 90.93 | 91.08 | 74.00 | -17.08 | Peak |
| 2 | 4874.00 | 31.37 | 12.07 | 31.90 | 30.73 | 42.27 | 74.00 | 31.73 | Peak |
| 3 | 7311.00 | 36.55 | 11.57 | 31.99 | 28.71 | 44.84 | 74.00 | 29.16 | Peak |
| 4 | 8684.00 | 37.32 | 11.45 | 32.43 | 29.25 | 45.59 | 74.00 | 28.41 | Peak |
| 5 | 10095.00 | 38.27 | 11.53 | 31.95 | 26.83 | 44.68 | 74.00 | 29.32 | Peak |
| 6 | 14396.00 | 41.79 | 10.92 | 32.83 | 25.29 | 45.17 | 74.00 | 28.83 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 37
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11g CH11 2462TX
 Antenna 1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2462.00 | 27.58 | 6.69 | 34.06 | 92.66 | 92.87 | 74.00 | -18.87 | Peak |
| 2 | 4924.00 | 31.45 | 12.29 | 31.95 | 29.48 | 41.27 | 74.00 | 32.73 | Peak |
| 3 | 7386.00 | 36.57 | 11.59 | 31.97 | 27.14 | 43.33 | 74.00 | 30.67 | Peak |
| 4 | 8004.00 | 37.01 | 11.40 | 31.22 | 28.18 | 45.37 | 74.00 | 28.63 | Peak |
| 5 | 10146.00 | 38.36 | 11.51 | 32.05 | 27.17 | 44.99 | 74.00 | 29.01 | Peak |
| 6 | 14056.00 | 41.51 | 10.90 | 33.80 | 25.77 | 44.38 | 74.00 | 29.62 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 38
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11g CH11 2462TX
 Antenna 1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2462.00 | 27.58 | 6.69 | 34.06 | 89.12 | 89.33 | 74.00 | -15.33 | Peak |
| 2 | 4924.00 | 31.45 | 12.29 | 31.95 | 29.90 | 41.69 | 74.00 | 32.31 | Peak |
| 3 | 7386.00 | 36.57 | 11.59 | 31.97 | 27.80 | 43.99 | 74.00 | 30.01 | Peak |
| 4 | 8055.00 | 36.91 | 11.41 | 31.31 | 28.78 | 45.79 | 74.00 | 28.21 | Peak |
| 5 | 10095.00 | 38.27 | 11.53 | 31.95 | 27.79 | 45.64 | 74.00 | 28.36 | Peak |
| 6 | 14413.00 | 41.80 | 10.92 | 32.78 | 24.01 | 43.95 | 74.00 | 30.05 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 41
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11n HT20 CH1 2412TX
 Antenna 0+1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2412.00 | 27.60 | 6.64 | 34.15 | 90.18 | 90.27 | 74.00 | -16.27 | Peak |
| 2 | 4824.00 | 31.28 | 11.84 | 31.83 | 30.51 | 41.80 | 74.00 | 32.20 | Peak |
| 3 | 7236.00 | 36.53 | 11.55 | 32.07 | 28.04 | 44.05 | 74.00 | 29.95 | Peak |
| 4 | 7834.00 | 36.68 | 11.47 | 31.40 | 28.88 | 45.63 | 74.00 | 28.37 | Peak |
| 5 | 10180.00 | 38.42 | 11.49 | 32.11 | 27.78 | 45.58 | 74.00 | 28.42 | Peak |
| 6 | 14345.00 | 41.76 | 10.92 | 32.93 | 25.97 | 45.72 | 74.00 | 28.28 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 42
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11n HT20 CH1 2412TX
 Antenna 0+1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2412.00 | 27.60 | 6.64 | 34.15 | 87.75 | 87.84 | 74.00 | -13.84 | Peak |
| 2 | 4824.00 | 31.28 | 11.84 | 31.83 | 31.69 | 42.98 | 74.00 | 31.02 | Peak |
| 3 | 7236.00 | 36.53 | 11.55 | 32.07 | 27.63 | 43.64 | 74.00 | 30.36 | Peak |
| 4 | 8004.00 | 37.01 | 11.40 | 31.22 | 28.10 | 45.29 | 74.00 | 28.71 | Peak |
| 5 | 9602.00 | 37.91 | 11.69 | 31.93 | 27.57 | 45.24 | 74.00 | 28.76 | Peak |
| 6 | 14515.00 | 41.89 | 10.93 | 33.14 | 25.14 | 44.82 | 74.00 | 29.18 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 45
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11n HT20 CH6 2437TX
 Antenna 0+1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2437.00 | 27.60 | 6.67 | 34.12 | 90.55 | 90.70 | 74.00 | -16.70 | Peak |
| 2 | 4874.00 | 31.37 | 12.07 | 31.90 | 29.44 | 40.98 | 74.00 | 33.02 | Peak |
| 3 | 7311.00 | 36.55 | 11.57 | 31.99 | 26.20 | 42.33 | 74.00 | 31.67 | Peak |
| 4 | 8004.00 | 37.01 | 11.40 | 31.22 | 26.93 | 44.12 | 74.00 | 29.88 | Peak |
| 5 | 9874.00 | 38.15 | 11.62 | 31.77 | 25.04 | 43.04 | 74.00 | 30.96 | Peak |
| 6 | 14430.00 | 41.82 | 10.93 | 32.84 | 23.92 | 43.83 | 74.00 | 30.17 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 46
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11n HT20 CH6 2437TX
 Antenna 0+1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2437.00 | 27.60 | 6.67 | 34.12 | 88.45 | 88.60 | 74.00 | -14.60 | Peak |
| 2 | 4874.00 | 31.37 | 12.07 | 31.90 | 30.59 | 42.13 | 74.00 | 31.87 | Peak |
| 3 | 7311.00 | 36.55 | 11.57 | 31.99 | 27.55 | 43.68 | 74.00 | 30.32 | Peak |
| 4 | 7834.00 | 36.68 | 11.47 | 31.40 | 28.89 | 45.64 | 74.00 | 28.36 | Peak |
| 5 | 10044.00 | 38.18 | 11.56 | 31.85 | 27.27 | 45.16 | 74.00 | 28.84 | Peak |
| 6 | 14464.00 | 41.85 | 10.93 | 32.96 | 25.58 | 45.40 | 74.00 | 28.60 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 47
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11n HT20 CH11 2462TX
 Antenna 0+1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2462.00 | 27.58 | 6.69 | 34.06 | 88.50 | 88.71 | 74.00 | -14.71 | Peak |
| 2 | 4924.00 | 31.45 | 12.29 | 31.95 | 29.65 | 41.44 | 74.00 | 32.56 | Peak |
| 3 | 7386.00 | 36.57 | 11.59 | 31.97 | 27.12 | 43.31 | 74.00 | 30.69 | Peak |
| 4 | 8106.00 | 36.82 | 11.41 | 31.38 | 27.70 | 44.55 | 74.00 | 29.45 | Peak |
| 5 | 9636.00 | 37.96 | 11.68 | 31.91 | 26.39 | 44.12 | 74.00 | 29.88 | Peak |
| 6 | 14396.00 | 41.79 | 10.92 | 32.83 | 24.02 | 43.90 | 74.00 | 30.10 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 48
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11n HT20 CH11 2462TX
 Antenna 0+1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2462.00 | 27.58 | 6.69 | 34.06 | 91.73 | 91.94 | 74.00 | -17.94 | Peak |
| 2 | 4924.00 | 31.45 | 12.29 | 31.95 | 30.89 | 42.68 | 74.00 | 31.32 | Peak |
| 3 | 7386.00 | 36.57 | 11.59 | 31.97 | 27.92 | 44.11 | 74.00 | 29.89 | Peak |
| 4 | 7834.00 | 36.68 | 11.47 | 31.40 | 28.48 | 45.23 | 74.00 | 28.77 | Peak |
| 5 | 10146.00 | 38.36 | 11.51 | 32.05 | 26.56 | 44.38 | 74.00 | 29.62 | Peak |
| 6 | 14566.00 | 41.71 | 10.92 | 33.32 | 24.62 | 43.93 | 74.00 | 30.07 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 51
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11n HT40 CH3 2422TX
 Antenna 0+1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2422.00 | 27.60 | 6.66 | 34.15 | 87.82 | 87.93 | 74.00 | -13.93 | Peak |
| 2 | 4844.00 | 31.31 | 11.92 | 31.85 | 30.23 | 41.61 | 74.00 | 32.39 | Peak |
| 3 | 7266.00 | 36.54 | 11.56 | 32.04 | 27.52 | 43.58 | 74.00 | 30.42 | Peak |
| 4 | 7817.00 | 36.64 | 11.48 | 31.42 | 28.01 | 44.71 | 74.00 | 29.29 | Peak |
| 5 | 9330.00 | 37.97 | 11.62 | 32.12 | 26.98 | 44.45 | 74.00 | 29.55 | Peak |
| 6 | 14294.00 | 41.71 | 10.92 | 33.08 | 24.93 | 44.48 | 74.00 | 29.52 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 52
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11n HT40 CH3 2422TX
 Antenna 0+1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2422.00 | 27.60 | 6.66 | 34.15 | 89.82 | 89.93 | 74.00 | -15.93 | Peak |
| 2 | 4844.00 | 31.31 | 11.92 | 31.85 | 30.31 | 41.69 | 74.00 | 32.31 | Peak |
| 3 | 7266.00 | 36.54 | 11.56 | 32.04 | 28.57 | 44.63 | 74.00 | 29.37 | Peak |
| 4 | 7834.00 | 36.68 | 11.47 | 31.40 | 28.77 | 45.52 | 74.00 | 28.48 | Peak |
| 5 | 10180.00 | 38.42 | 11.49 | 32.11 | 27.12 | 44.92 | 74.00 | 29.08 | Peak |
| 6 | 14345.00 | 41.76 | 10.92 | 32.93 | 24.41 | 44.16 | 74.00 | 29.84 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 55
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11n HT40 CH6 2437TX
 Antenna 0+1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2437.00 | 27.60 | 6.67 | 34.12 | 87.80 | 87.95 | 74.00 | -13.95 | Peak |
| 2 | 4874.00 | 31.37 | 12.07 | 31.90 | 29.42 | 40.96 | 74.00 | 33.04 | Peak |
| 3 | 7311.00 | 36.55 | 11.57 | 31.99 | 27.58 | 43.71 | 74.00 | 30.29 | Peak |
| 4 | 8004.00 | 37.01 | 11.40 | 31.22 | 27.69 | 44.88 | 74.00 | 29.12 | Peak |
| 5 | 9636.00 | 37.96 | 11.68 | 31.91 | 26.79 | 44.52 | 74.00 | 29.48 | Peak |
| 6 | 14294.00 | 41.71 | 10.92 | 33.08 | 25.11 | 44.66 | 74.00 | 29.34 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 56
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11n HT40 CH6 2437TX
 Antenna 0+1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2437.00 | 27.60 | 6.67 | 34.12 | 90.36 | 90.51 | 74.00 | -16.51 | Peak |
| 2 | 4874.00 | 31.37 | 12.07 | 31.90 | 30.57 | 42.11 | 74.00 | 31.89 | Peak |
| 3 | 7311.00 | 36.55 | 11.57 | 31.99 | 27.56 | 43.69 | 74.00 | 30.31 | Peak |
| 4 | 7970.00 | 36.94 | 11.41 | 31.25 | 27.17 | 44.27 | 74.00 | 29.73 | Peak |
| 5 | 9806.00 | 38.17 | 11.64 | 31.84 | 25.40 | 43.37 | 74.00 | 30.63 | Peak |
| 6 | 14345.00 | 41.76 | 10.92 | 32.93 | 23.81 | 43.56 | 74.00 | 30.44 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 57
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11n HT40 CH9 2452TX
 Antenna 0+1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2452.00 | 27.59 | 6.67 | 34.09 | 90.06 | 90.23 | 74.00 | -16.23 | Peak |
| 2 | 4904.00 | 31.42 | 12.22 | 31.93 | 29.23 | 40.94 | 74.00 | 33.06 | Peak |
| 3 | 7356.00 | 36.56 | 11.58 | 31.99 | 27.56 | 43.71 | 74.00 | 30.29 | Peak |
| 4 | 8055.00 | 36.91 | 11.41 | 31.31 | 28.24 | 45.25 | 74.00 | 28.75 | Peak |
| 5 | 10146.00 | 38.36 | 11.51 | 32.05 | 27.15 | 44.97 | 74.00 | 29.03 | Peak |
| 6 | 14294.00 | 41.71 | 10.92 | 33.08 | 25.47 | 45.02 | 74.00 | 28.98 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 58
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11n HT40 CH9 2452TX
 Antenna 0+1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2452.00 | 27.59 | 6.67 | 34.09 | 87.01 | 87.18 | 74.00 | -13.18 | Peak |
| 2 | 4904.00 | 31.42 | 12.22 | 31.93 | 28.93 | 40.64 | 74.00 | 33.36 | Peak |
| 3 | 7356.00 | 36.56 | 11.58 | 31.99 | 27.95 | 44.10 | 74.00 | 29.90 | Peak |
| 4 | 8004.00 | 37.01 | 11.40 | 31.22 | 28.51 | 45.70 | 74.00 | 28.30 | Peak |
| 5 | 10044.00 | 38.18 | 11.56 | 31.85 | 27.77 | 45.66 | 74.00 | 28.34 | Peak |
| 6 | 14345.00 | 41.76 | 10.92 | 32.93 | 25.19 | 44.94 | 74.00 | 29.06 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

18000MHz – 25000MHz

Pass

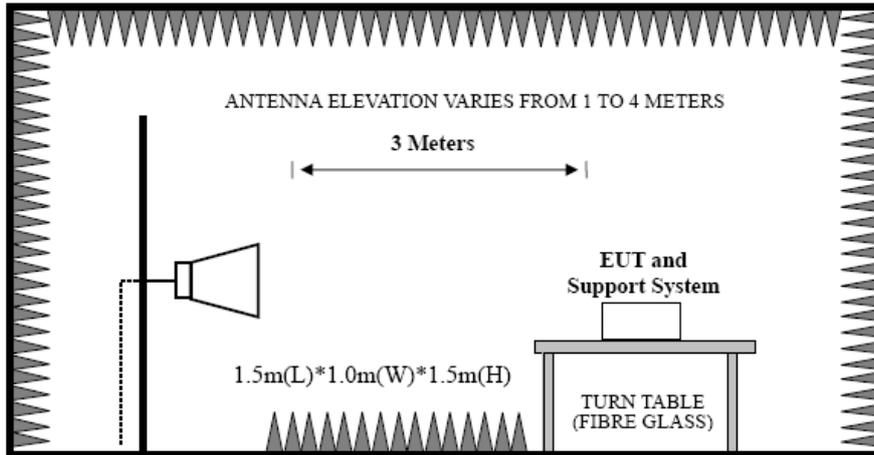
Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

5 BAND EDGE COMPLIANCE TEST

5.1 Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits

5.2 Block Diagram of Test setup



5.3 Test Procedure

EUT was placed on a turn table, which is 1.5 m high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of emissions

Peak : RBW = 1MHz, VBW = 1MHz, Detector=PEAK detector, Sweep time = auto.

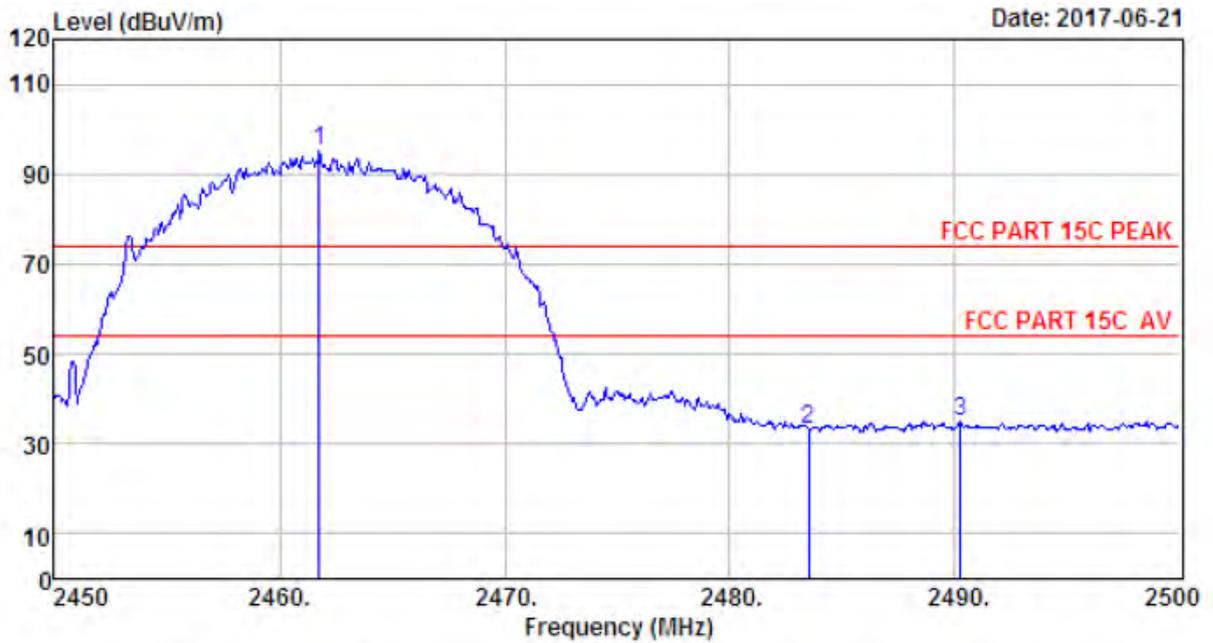
AV : RBW = 1MHz, VBW = 10Hz, Detector=PEAK detector, Sweep time = auto.

5.4 Test Result

Pass (The testing data was attached in the next pages.)

Note: 1、 For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

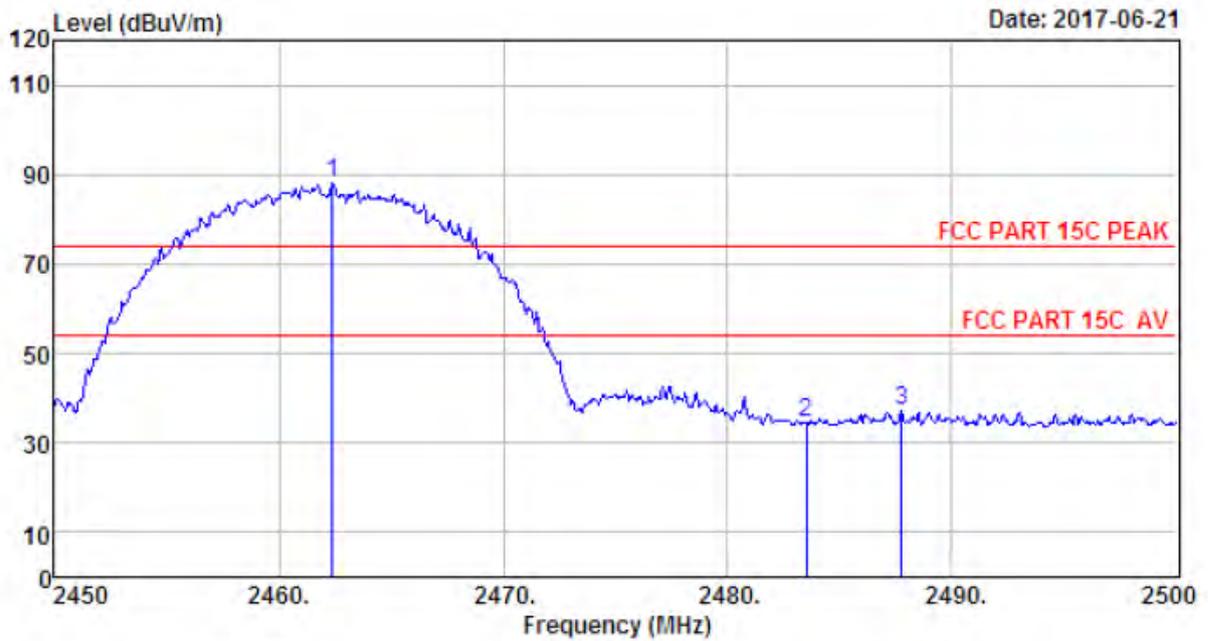
2、 The frequency 2412 MHz、 2422MHz、 2452MHz and 2462 MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.



Site no. : 1# 966 Chamber Data no. : 9
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11b CH11 2462TX
 Antenna 0

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBUV) | Emission Level (dBUV/m) | Limits (dBUV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2461.75 | 27.58 | 6.69 | 34.06 | 94.97 | 95.18 | 74.00 | -21.18 | Peak |
| 2 | 2483.50 | 27.58 | 6.71 | 34.03 | 33.10 | 33.36 | 74.00 | 40.64 | Peak |
| 3 | 2490.25 | 27.58 | 6.73 | 34.03 | 34.68 | 34.96 | 74.00 | 39.04 | Peak |

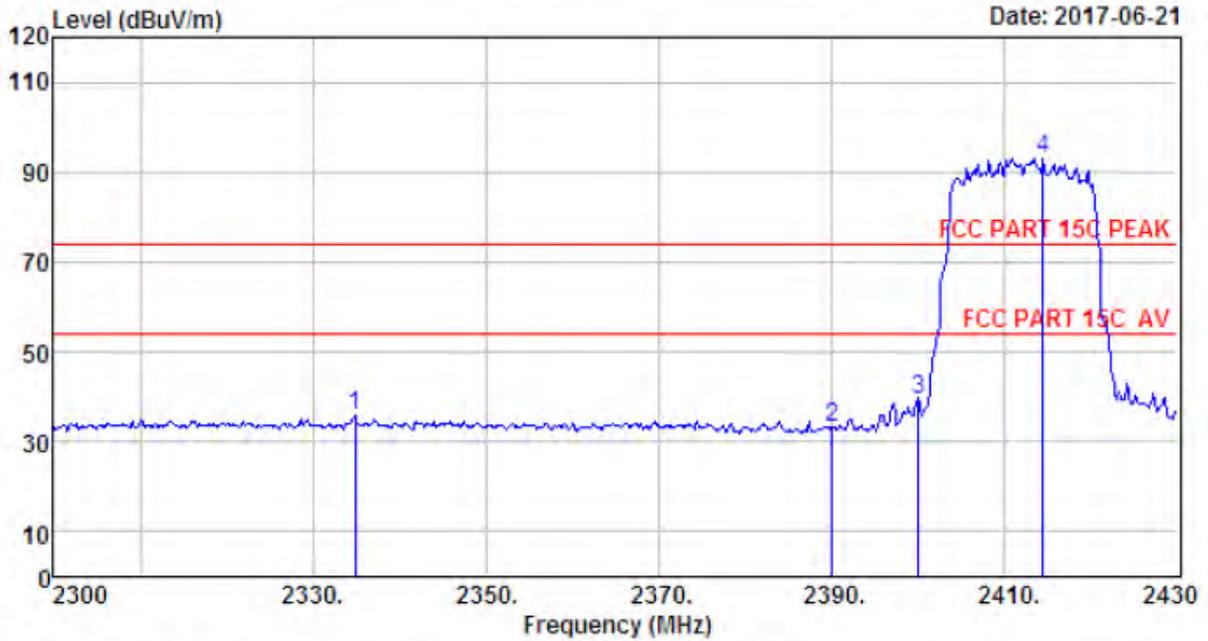
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 10
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11b CH11 2462TX
 Antenna 0

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2462.40 | 27.58 | 6.69 | 34.06 | 87.81 | 88.02 | 74.00 | -14.02 | Peak |
| 2 | 2483.50 | 27.58 | 6.71 | 34.03 | 34.24 | 34.50 | 74.00 | 39.50 | Peak |
| 3 | 2487.75 | 27.58 | 6.73 | 34.03 | 37.11 | 37.39 | 74.00 | 36.61 | Peak |

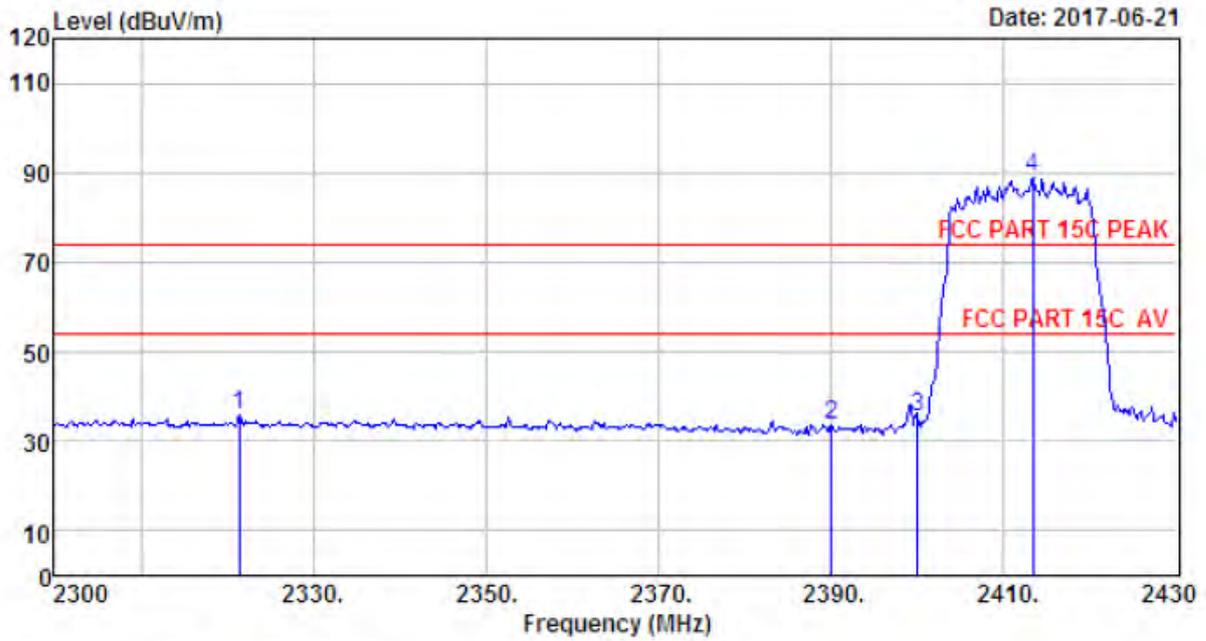
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 13
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11g CH1 2412TX
 Antenna 0

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBUV) | Emission Level (dBUV/m) | Limits (dBUV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2334.84 | 27.73 | 6.56 | 34.23 | 35.63 | 35.69 | 74.00 | 38.31 | Peak |
| 2 | 2390.00 | 27.64 | 6.62 | 34.19 | 33.08 | 33.15 | 74.00 | 40.85 | Peak |
| 3 | 2400.00 | 27.61 | 6.62 | 34.18 | 39.29 | 39.34 | 74.00 | 34.66 | Peak |
| 4 | 2414.40 | 27.60 | 6.64 | 34.15 | 92.84 | 92.93 | 74.00 | -18.93 | Peak |

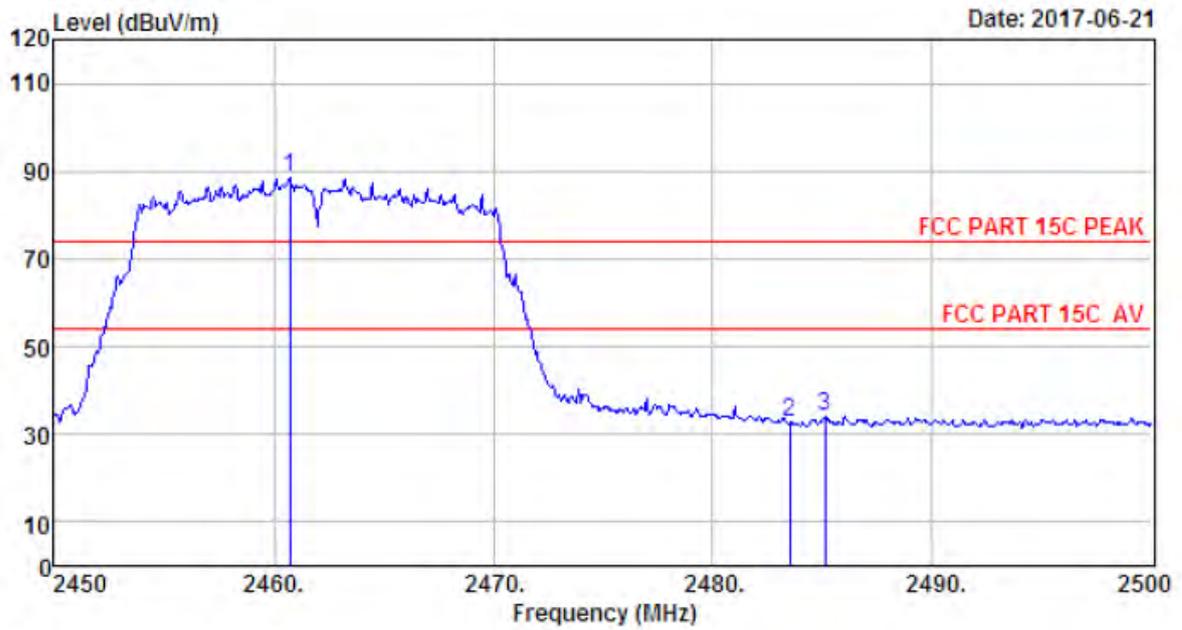
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 14
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUI : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11g CH1 2412TX
 Antenna 0

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBUV) | Emission Level (dBUV/m) | Limits (dBUV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2321.45 | 27.76 | 6.54 | 34.24 | 35.64 | 35.70 | 74.00 | 38.30 | Peak |
| 2 | 2390.00 | 27.64 | 6.62 | 34.19 | 33.54 | 33.61 | 74.00 | 40.39 | Peak |
| 3 | 2400.00 | 27.61 | 6.62 | 34.18 | 35.31 | 35.36 | 74.00 | 38.64 | Peak |
| 4 | 2413.36 | 27.60 | 6.64 | 34.15 | 88.80 | 88.89 | 74.00 | -14.89 | Peak |

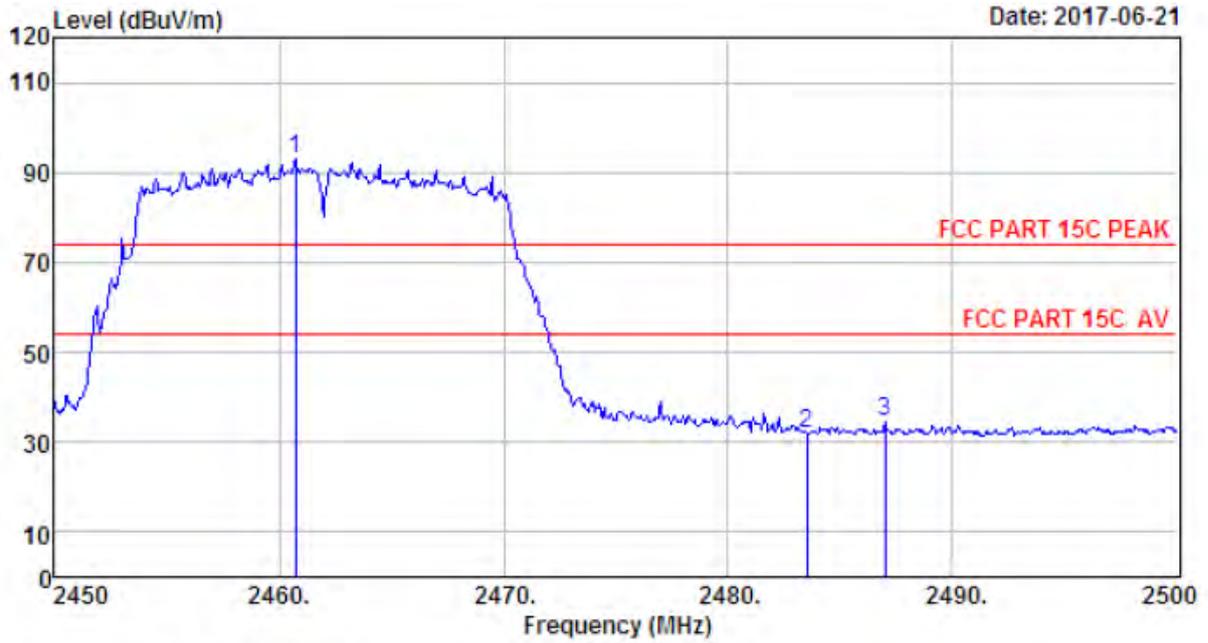
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 19
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUI : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11g CH11 2462TX
 Antenna 0

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2460.75 | 27.58 | 6.69 | 34.06 | 88.41 | 88.62 | 74.00 | -14.62 | Peak |
| 2 | 2483.50 | 27.58 | 6.71 | 34.03 | 32.36 | 32.62 | 74.00 | 41.38 | Peak |
| 3 | 2485.10 | 27.58 | 6.71 | 34.03 | 34.00 | 34.26 | 74.00 | 39.74 | Peak |

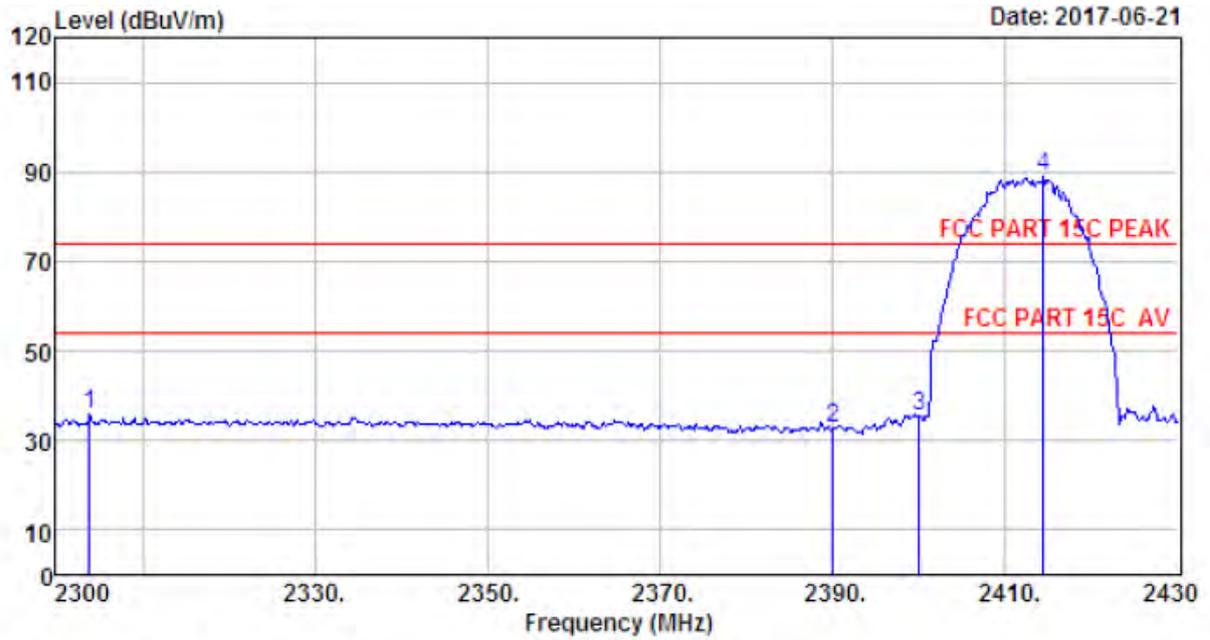
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 20
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11g CH11 2462TX
 Antenna 0

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2460.75 | 27.58 | 6.69 | 34.06 | 92.59 | 92.80 | 74.00 | -18.80 | Peak |
| 2 | 2483.50 | 27.58 | 6.71 | 34.03 | 31.81 | 32.07 | 74.00 | 41.93 | Peak |
| 3 | 2487.00 | 27.58 | 6.71 | 34.03 | 34.33 | 34.59 | 74.00 | 39.41 | Peak |

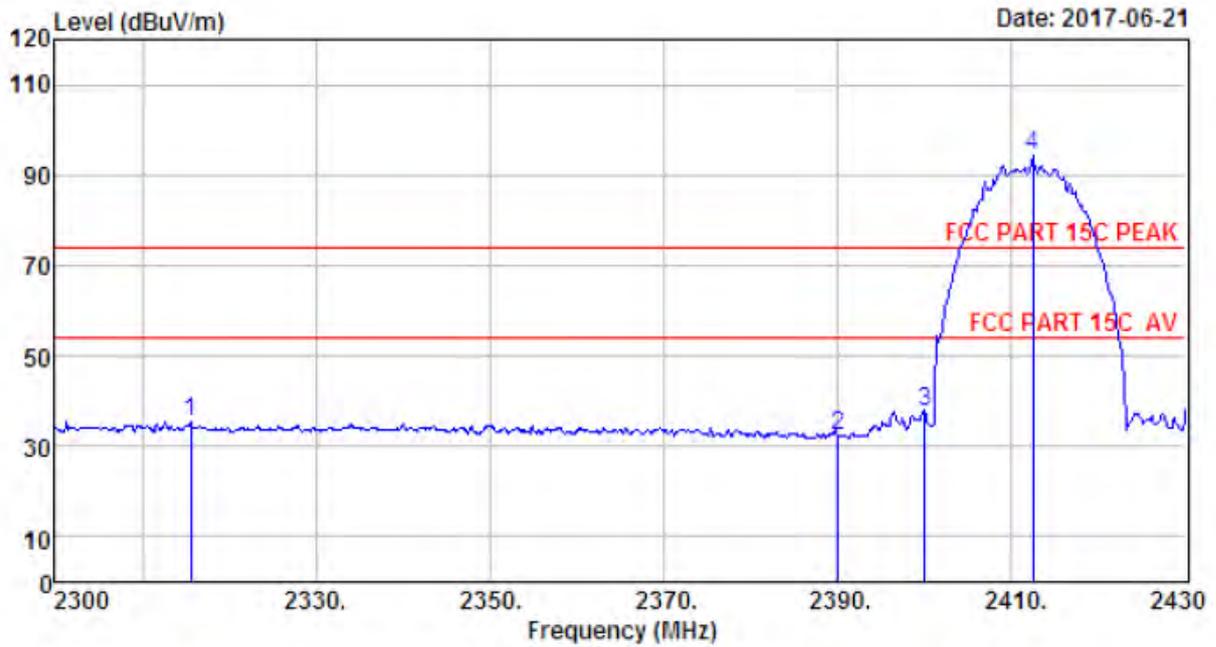
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 23
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.8';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11b CH1 2412TX
 Antenna 1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2303.90 | 27.79 | 6.53 | 34.25 | 35.74 | 35.81 | 74.00 | 38.19 | Peak |
| 2 | 2390.00 | 27.64 | 6.62 | 34.19 | 32.53 | 32.60 | 74.00 | 41.40 | Peak |
| 3 | 2400.00 | 27.61 | 6.62 | 34.18 | 35.24 | 35.29 | 74.00 | 38.71 | Peak |
| 4 | 2414.40 | 27.60 | 6.64 | 34.15 | 88.77 | 88.86 | 74.00 | -14.86 | Peak |

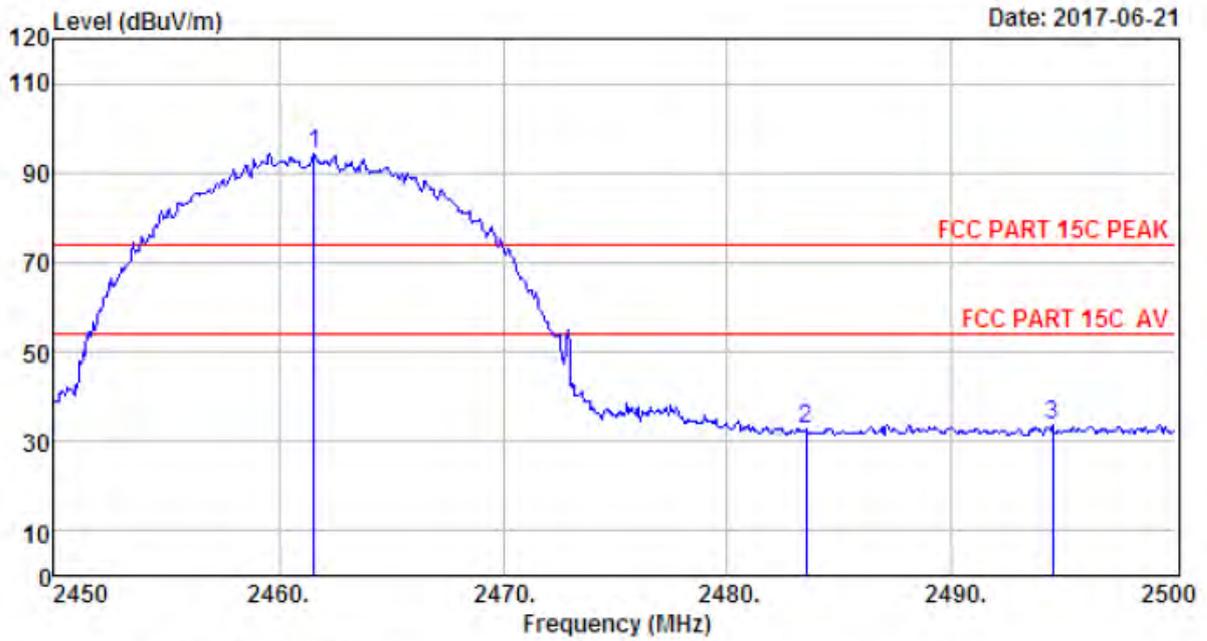
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 24
 Dis. / Ant. : 3m ANTI 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11b CH1 2412TX
 Antenna 1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBUV) | Emission Level (dBUV/m) | Limits (dBUV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2315.60 | 27.76 | 6.53 | 34.24 | 35.34 | 35.39 | 74.00 | 38.61 | Peak |
| 2 | 2390.00 | 27.64 | 6.62 | 34.19 | 32.19 | 32.26 | 74.00 | 41.74 | Peak |
| 3 | 2400.00 | 27.61 | 6.62 | 34.18 | 37.56 | 37.61 | 74.00 | 36.39 | Peak |
| 4 | 2412.45 | 27.60 | 6.64 | 34.15 | 94.07 | 94.16 | 74.00 | -20.16 | Peak |

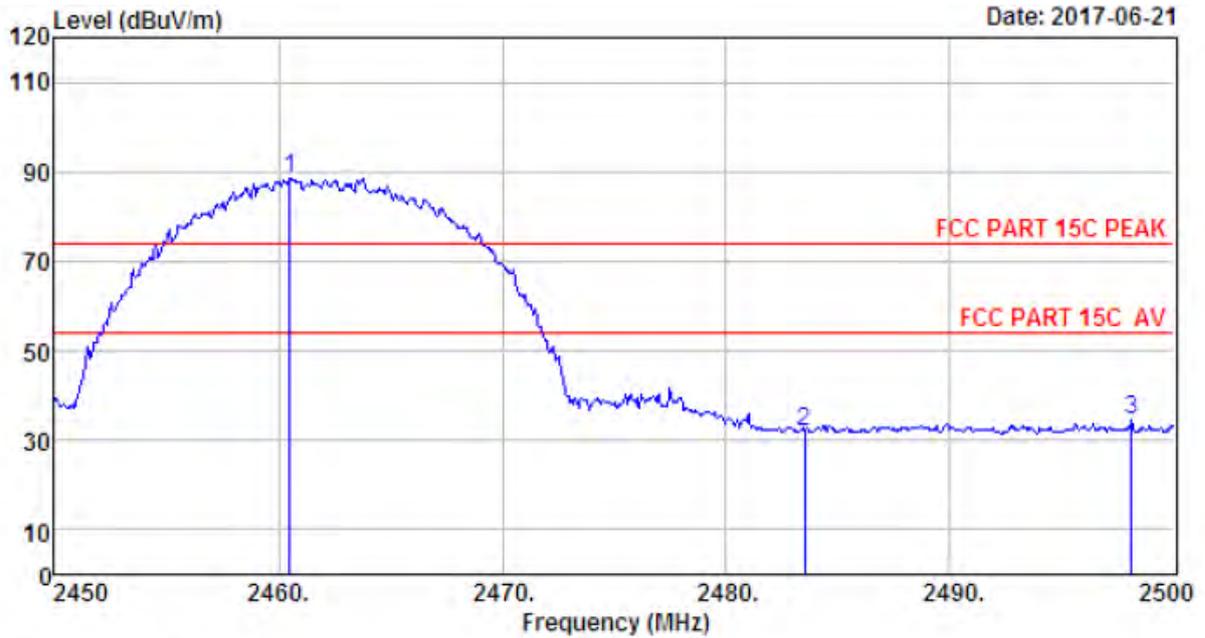
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 29
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11b CH11 2462TX
 Antenna 1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBUV) | Emission Level (dBUV/m) | Limits (dBUV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2461.60 | 27.58 | 6.69 | 34.06 | 94.23 | 94.44 | 74.00 | -20.44 | Peak |
| 2 | 2483.50 | 27.58 | 6.71 | 34.03 | 32.29 | 32.55 | 74.00 | 41.45 | Peak |
| 3 | 2494.50 | 27.57 | 6.73 | 34.00 | 33.57 | 33.87 | 74.00 | 40.13 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

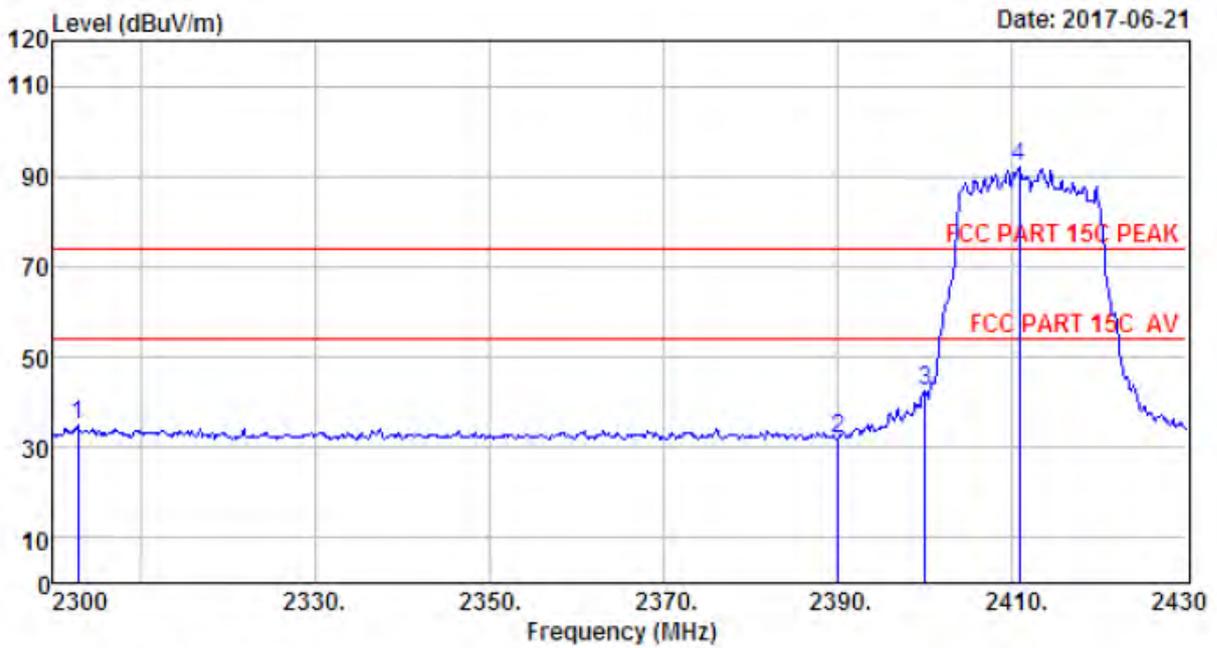


Date: 2017-06-21

Site no. : 1# 966 Chamber Data no. : 30
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11b CH11 2462TX
 Antenna 1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2460.50 | 27.58 | 6.69 | 34.06 | 88.45 | 88.66 | 74.00 | -14.66 | Peak |
| 2 | 2483.50 | 27.58 | 6.71 | 34.03 | 31.70 | 31.96 | 74.00 | 42.04 | Peak |
| 3 | 2498.10 | 27.57 | 6.73 | 34.00 | 34.16 | 34.46 | 74.00 | 39.54 | Peak |

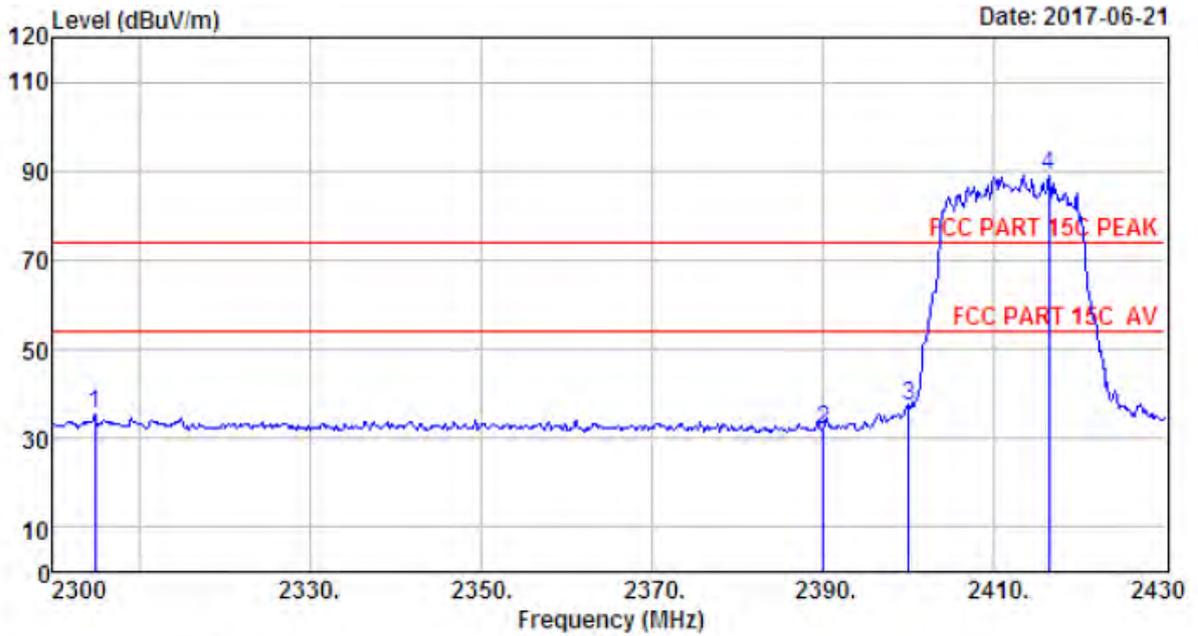
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 33
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11g CH1 2412TX
 Antenna 1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2302.86 | 27.79 | 6.53 | 34.25 | 34.89 | 34.96 | 74.00 | 39.04 | Peak |
| 2 | 2390.00 | 27.64 | 6.62 | 34.19 | 32.03 | 32.10 | 74.00 | 41.90 | Peak |
| 3 | 2400.00 | 27.61 | 6.62 | 34.18 | 42.29 | 42.34 | 74.00 | 31.66 | Peak |
| 4 | 2410.76 | 27.60 | 6.64 | 34.15 | 92.13 | 92.22 | 74.00 | -18.22 | Peak |

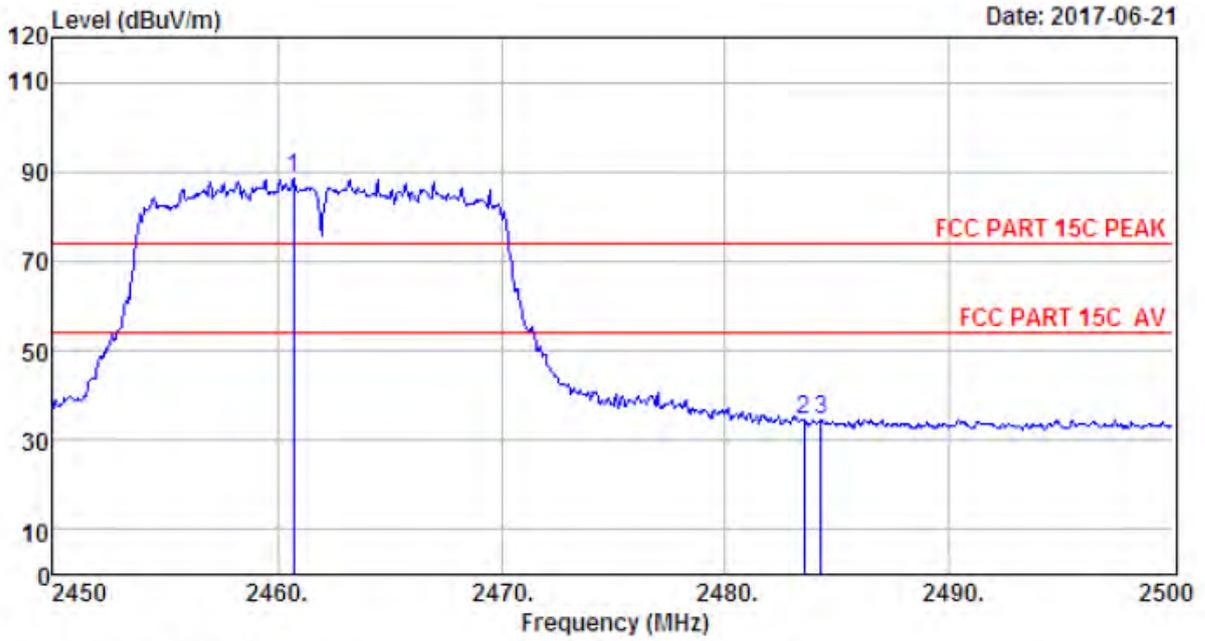
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 34
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humid:50%;Press:101.52kPa
 Engineer : Viking
 EUI : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11g CH1 2412TX
 Antenna 1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2304.94 | 27.79 | 6.53 | 34.25 | 35.39 | 35.46 | 74.00 | 38.54 | Peak |
| 2 | 2390.00 | 27.64 | 6.62 | 34.19 | 31.92 | 31.99 | 74.00 | 42.01 | Peak |
| 3 | 2400.00 | 27.61 | 6.62 | 34.18 | 37.35 | 37.40 | 74.00 | 36.60 | Peak |
| 4 | 2416.35 | 27.60 | 6.64 | 34.15 | 88.82 | 88.91 | 74.00 | -14.91 | Peak |

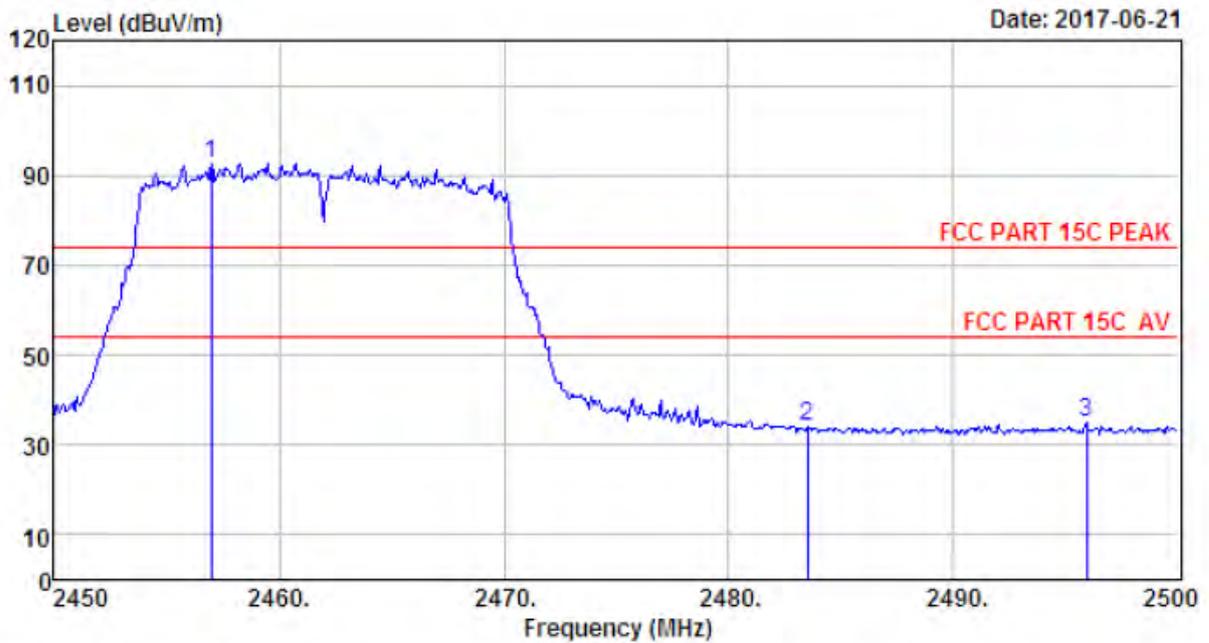
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 39
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUI : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11g CH11 2462TX
 Antenna 1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limite (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2460.75 | 27.58 | 6.69 | 34.06 | 88.40 | 88.61 | 74.00 | -14.61 | Peak |
| 2 | 2483.50 | 27.58 | 6.71 | 34.03 | 34.32 | 34.58 | 74.00 | 39.42 | Peak |
| 3 | 2484.25 | 27.58 | 6.71 | 34.03 | 34.43 | 34.69 | 74.00 | 39.31 | Peak |

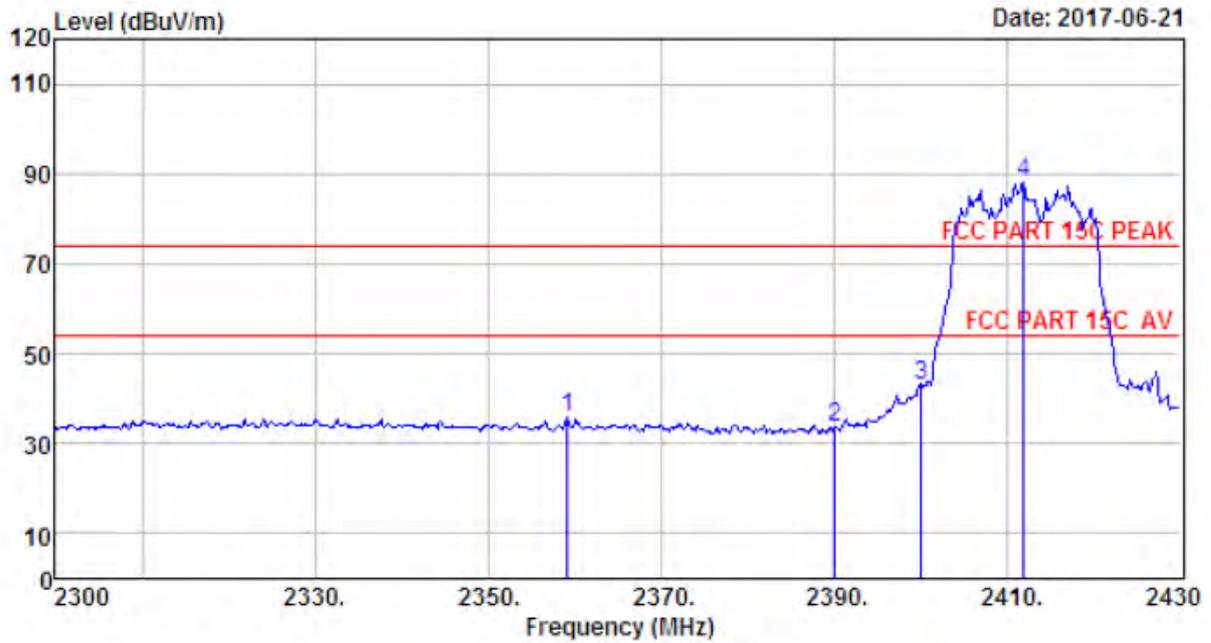
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 40
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11g CH11 2462TX
 Antenna 1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2457.00 | 27.59 | 6.69 | 34.09 | 92.50 | 92.69 | 74.00 | -18.69 | Peak |
| 2 | 2483.50 | 27.58 | 6.71 | 34.03 | 34.05 | 34.31 | 74.00 | 39.69 | Peak |
| 3 | 2495.90 | 27.57 | 6.73 | 34.00 | 34.66 | 34.96 | 74.00 | 39.04 | Peak |

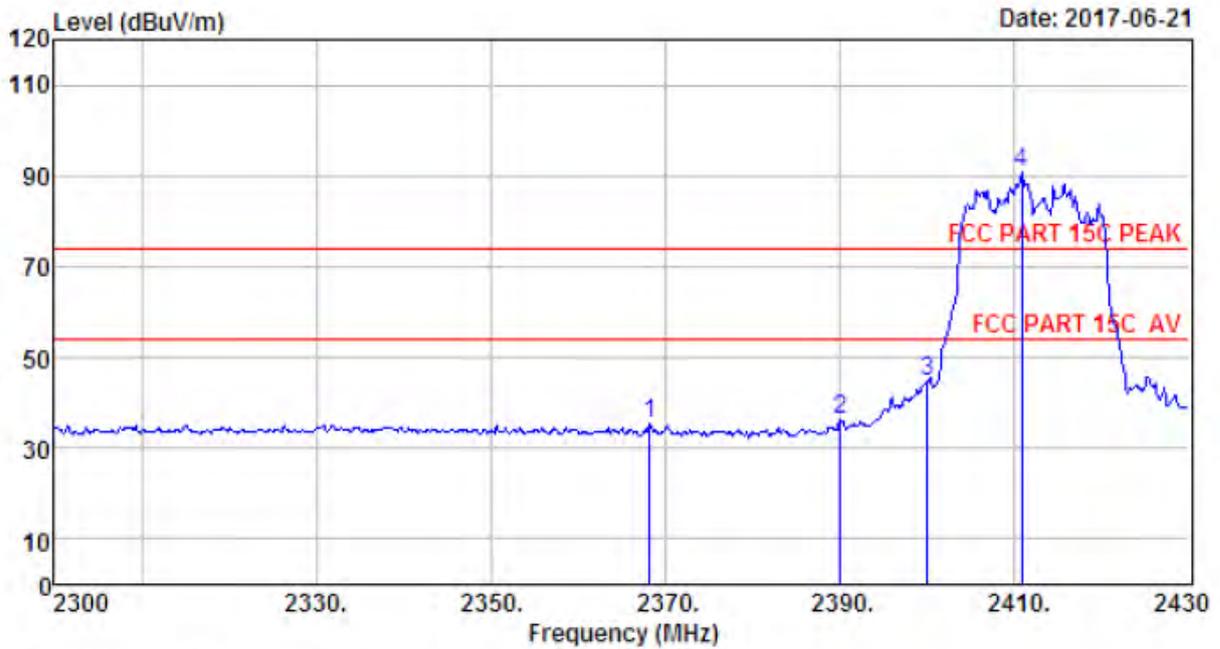
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 43
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11n HT20 CH1 2412TX
 Antenna 0+1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2359.15 | 27.67 | 6.58 | 34.20 | 35.68 | 35.73 | 74.00 | 38.27 | Peak |
| 2 | 2390.00 | 27.64 | 6.62 | 34.19 | 33.55 | 33.62 | 74.00 | 40.38 | Peak |
| 3 | 2400.00 | 27.61 | 6.62 | 34.18 | 43.08 | 43.13 | 74.00 | 30.87 | Peak |
| 4 | 2411.80 | 27.60 | 6.64 | 34.15 | 87.97 | 88.06 | 74.00 | -14.06 | Peak |

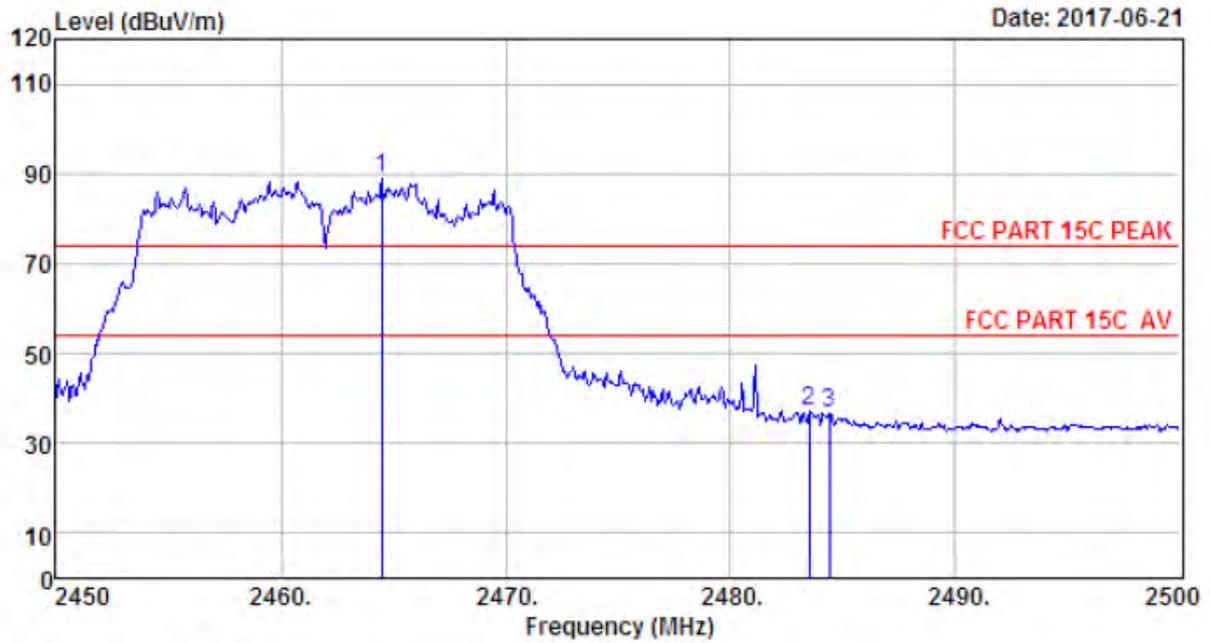
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 44
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11n HT20 CH1 2412TX
 Antenna 0+1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2368.25 | 27.67 | 6.58 | 34.20 | 35.50 | 35.55 | 74.00 | 38.45 | Peak |
| 2 | 2390.00 | 27.64 | 6.62 | 34.19 | 36.03 | 36.10 | 74.00 | 37.90 | Peak |
| 3 | 2400.00 | 27.61 | 6.62 | 34.18 | 44.75 | 44.80 | 74.00 | 29.20 | Peak |
| 4 | 2410.76 | 27.60 | 6.64 | 34.15 | 90.59 | 90.68 | 74.00 | -16.68 | Peak |

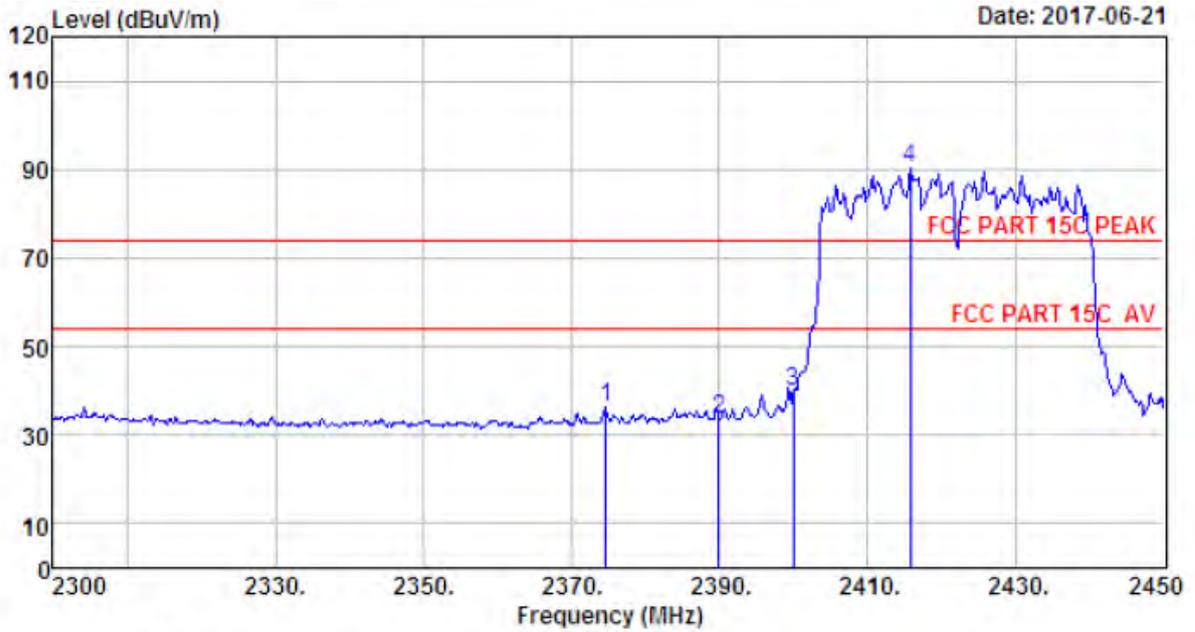
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 50
 Dis. / Ant. : 3m ANI 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11n HT20 CH11 2462TX
 Antenna 0+1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBUV) | Emission Level (dBUV/m) | Limits (dBUV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2464.50 | 27.58 | 6.69 | 34.06 | 88.80 | 89.01 | 74.00 | -15.01 | Peak |
| 2 | 2483.50 | 27.58 | 6.71 | 34.03 | 36.72 | 36.98 | 74.00 | 37.02 | Peak |
| 3 | 2484.40 | 27.58 | 6.71 | 34.03 | 36.60 | 36.86 | 74.00 | 37.14 | Peak |

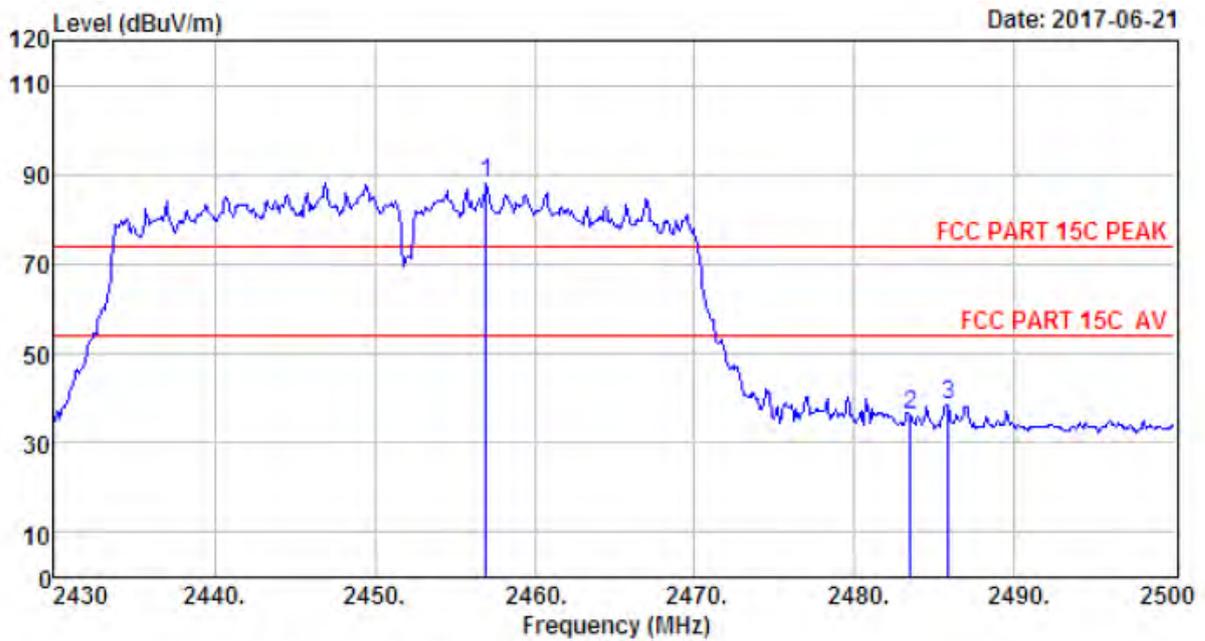
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 53
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUT : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11n HT40 CH3 2422TX
 Antenna 0+1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limite (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2374.70 | 27.64 | 6.60 | 34.19 | 36.34 | 36.39 | 74.00 | 37.61 | Peak |
| 2 | 2390.00 | 27.64 | 6.62 | 34.19 | 33.47 | 33.54 | 74.00 | 40.46 | Peak |
| 3 | 2400.00 | 27.61 | 6.62 | 34.18 | 39.82 | 39.87 | 74.00 | 34.13 | Peak |
| 4 | 2415.80 | 27.60 | 6.64 | 34.15 | 90.10 | 90.19 | 74.00 | -16.19 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 59
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:28.6';Humi:50%;Press:101.52kPa
 Engineer : Viking
 EUI : LED TV
 Power : AC 120V/60Hz
 M/N : SC-40FK700N
 Test Mode : IEEE 802.11n HT40 CH9 2452TX
 Antenna 0+1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2456.95 | 27.59 | 6.69 | 34.09 | 87.92 | 88.11 | 74.00 | -14.11 | Peak |
| 2 | 2483.50 | 27.58 | 6.71 | 34.03 | 35.91 | 36.17 | 74.00 | 37.83 | Peak |
| 3 | 2485.86 | 27.58 | 6.71 | 34.03 | 38.31 | 38.57 | 74.00 | 35.43 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

6 6dB & 20dB Bandwidth Test

6.1 Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

6.2 Test Procedure for 6dB

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in KDB 558074
 - (1). Set resolution bandwidth (RBW) = 100 kHz.
 - (2). Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
 - (3). Detector = Peak.
 - (4). Trace mode = max hold.
 - (5). Sweep = auto couple.
 - (6). Allow the trace to stabilize.
 - (7). Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.3 Test Procedure for 20dB

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in C63.10
 - (1). The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
 - (2). The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.
 - (3). Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2.
 - (4). Steps a) through c) might require iteration to adjust within the specified tolerances.
 - (5). The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.
 - (6). Set detection mode to peak and trace mode to max hold.
 - (7). Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
 - (8). Determine the “-xx dB down amplitude” using $[(\text{reference value}) - xx]$. Alternatively, this calculation may be made by using the marker-delta function of the instrument.
 - (9). If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).
 - (10). Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value,

then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “_xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.

(11). The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

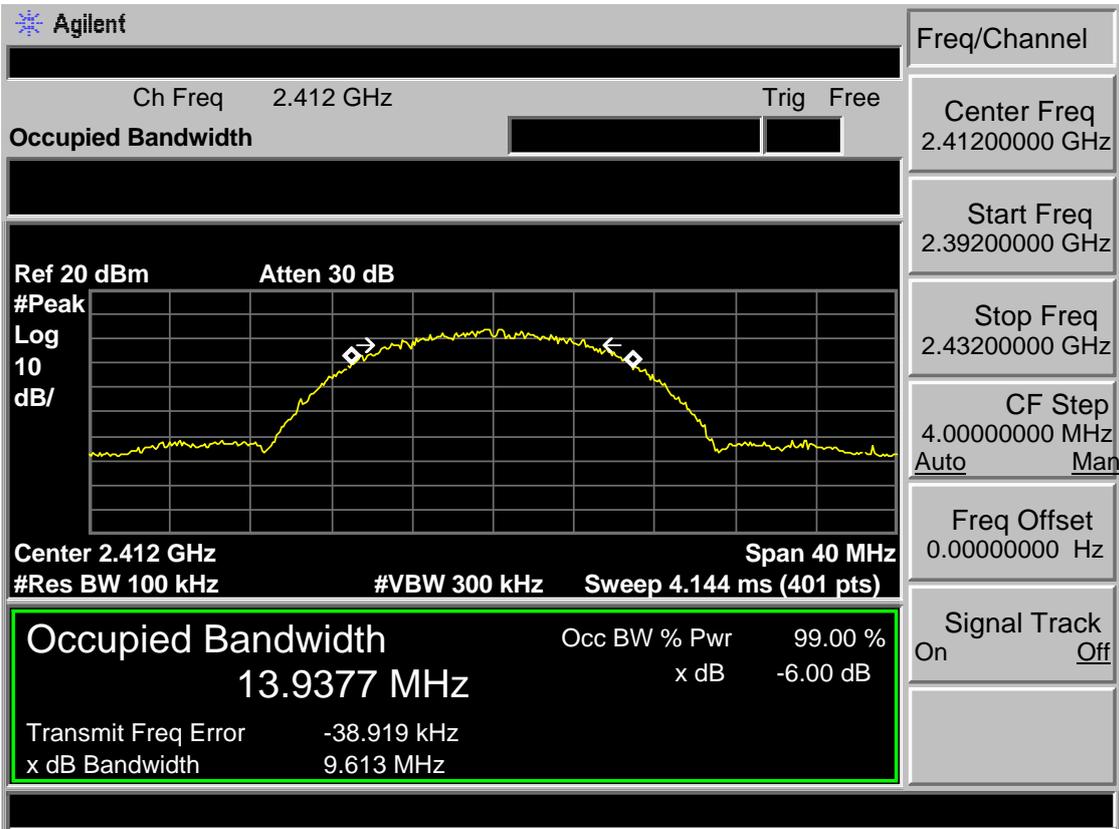
6.4 Test Result

| EUT: LED TV | | | | | |
|------------------------|------|------------------------|-------------------------|--------------------|------------|
| M/N: SC-40FK700N | | | | | |
| Test date: 2017-06-27 | | Test site: RF Site | | Tested by: Viking | |
| Test Mode | CH | 6dB bandwidth (MHz) | 20dB bandwidth (MHz) | Limit (KHz) | |
| | | | | 6dB BW (KHz) | 20dB BW |
| Antenna 0 | | | | | |
| IEEE 802.11 b | CH1 | 9.613 | 16.380 | >500 | / |
| | CH6 | 9.554 | 16.342 | >500 | / |
| | CH11 | 9.595 | 16.462 | >500 | / |
| IEEE 802.11 g | CH1 | 16.323 | 18.530 | >500 | / |
| | CH6 | 16.065 | 18.598 | >500 | / |
| | CH11 | 16.292 | 18.552 | >500 | / |
| IEEE 802.11 n HT 20 | CH1 | 15.219 | 18.439 | >500 | / |
| | CH6 | 15.405 | 18.645 | >500 | / |
| | CH11 | 15.488 | 18.624 | >500 | / |
| IEEE 802.11 n HT 40 | CH3 | 35.162 | 39.787 | >500 | / |
| | CH6 | 35.151 | 39.595 | >500 | / |
| | CH9 | 35.146 | 39.827 | >500 | / |
| Antenna 1 | | | | | |
| IEEE 802.11 b | CH1 | 9.540 | 16.243 | >500 | / |
| | CH6 | 9.533 | 16.210 | >500 | / |
| | CH11 | 9.614 | 16.210 | >500 | / |
| IEEE 802.11 g | CH1 | 15.550 | 18.467 | >500 | / |
| | CH6 | 15.720 | 18.524 | >500 | / |
| | CH11 | 15.812 | 18.407 | >500 | / |
| IEEE 802.11 n HT 20 | CH1 | 15.515 | 18.431 | >500 | / |
| | CH6 | 15.452 | 18.440 | >500 | / |
| | CH11 | 15.405 | 18.291 | >500 | / |
| IEEE 802.11 n HT 40 | CH3 | 35.127 | 39.703 | >500 | / |
| | CH6 | 35.138 | 39.669 | >500 | / |
| | CH9 | 35.114 | 39.646 | >500 | / |
| Conclusion : PASS | | | | | |

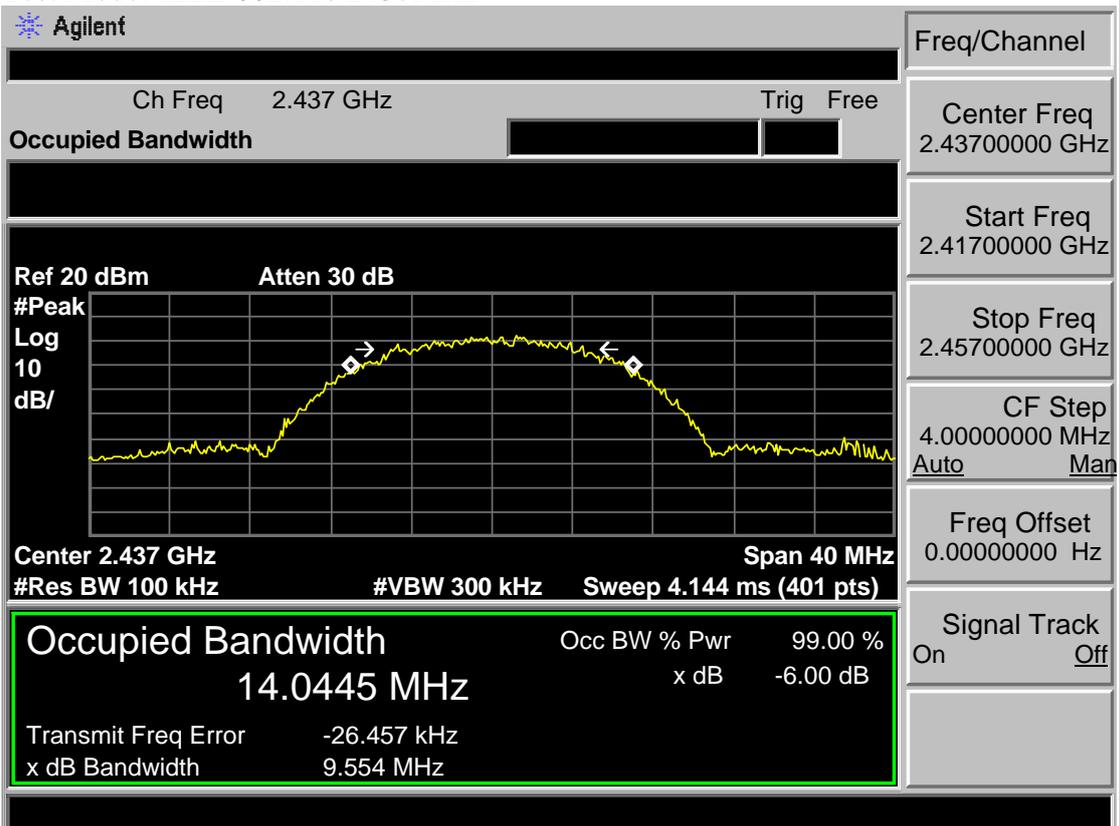
6.5 6dB Test Data

Antenna 0

Test Mode: IEEE 802.11b 2412MHz



Test Mode: IEEE 802.11b 2437MHz



Test Mode: IEEE 802.11b 2462MHz



Test Mode: IEEE 802.11g 2412MHz

Agilent

Ch Freq 2.412 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

Center 2.412 GHz Span 40 MHz
#Res BW 100 kHz #VBW 300 kHz Sweep 4.144 ms (401 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %
16.3153 MHz x dB -6.00 dB

Transmit Freq Error -22.032 kHz
x dB Bandwidth 16.323 MHz

Freq/Channel

Center Freq 2.41200000 GHz

Start Freq 2.39200000 GHz

Stop Freq 2.43200000 GHz

CF Step 4.00000000 MHz
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

Test Mode: IEEE 802.11g 2437MHz

Agilent

Ch Freq 2.437 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

Center 2.437 GHz Span 40 MHz
#Res BW 100 kHz #VBW 300 kHz Sweep 4.144 ms (401 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %
16.2856 MHz x dB -6.00 dB

Transmit Freq Error -17.983 kHz
x dB Bandwidth 16.065 MHz

Freq/Channel

Center Freq 2.43700000 GHz

Start Freq 2.41700000 GHz

Stop Freq 2.45700000 GHz

CF Step 4.00000000 MHz
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

Test Mode: IEEE 802.11g 2462MHz

Agilent

Ch Freq 2.462 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

#Peak
Log 10 dB/

Center 2.462 GHz Span 40 MHz
#Res BW 100 kHz #VBW 300 kHz Sweep 4.144 ms (401 pts)

| | | | |
|---------------------------|-------------|--------------|----------|
| Occupied Bandwidth | | Occ BW % Pwr | 99.00 % |
| 16.3190 MHz | | x dB | -6.00 dB |
| Transmit Freq Error | -14.803 kHz | | |
| x dB Bandwidth | 16.292 MHz | | |

Freq/Channel

Center Freq 2.46200000 GHz

Start Freq 2.44200000 GHz

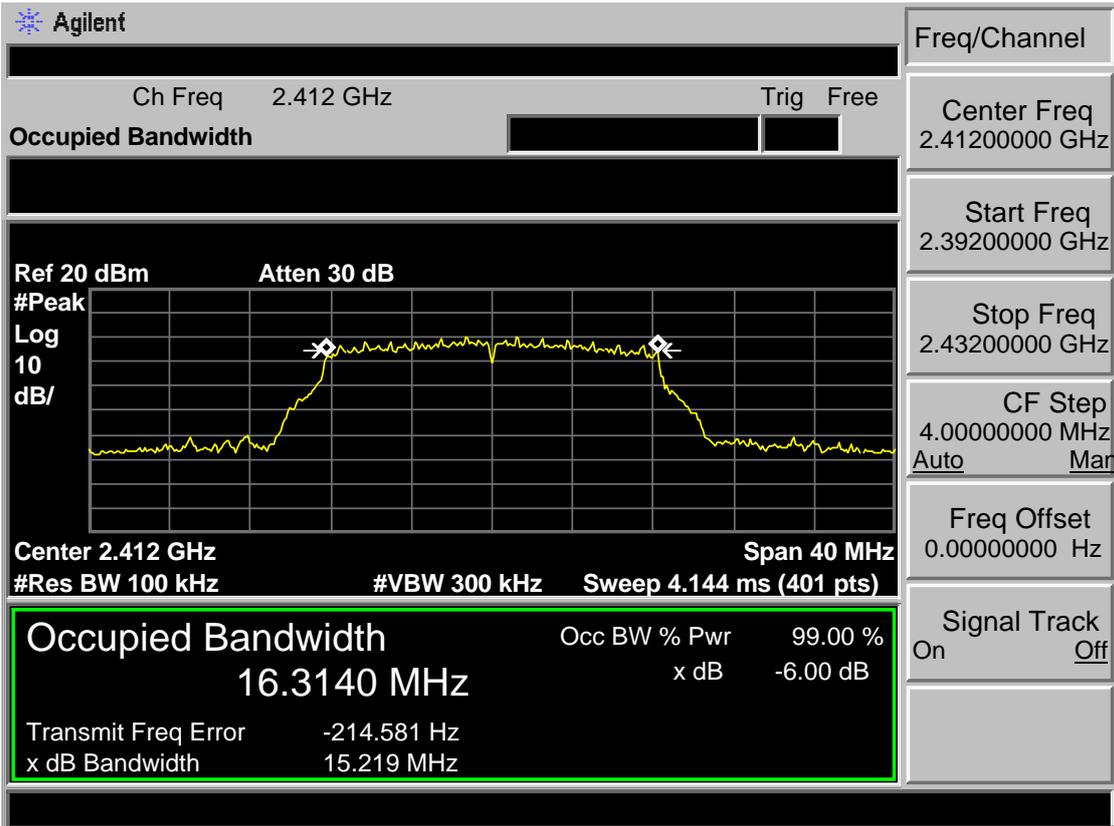
Stop Freq 2.48200000 GHz

CF Step 4.00000000 MHz
Auto Man

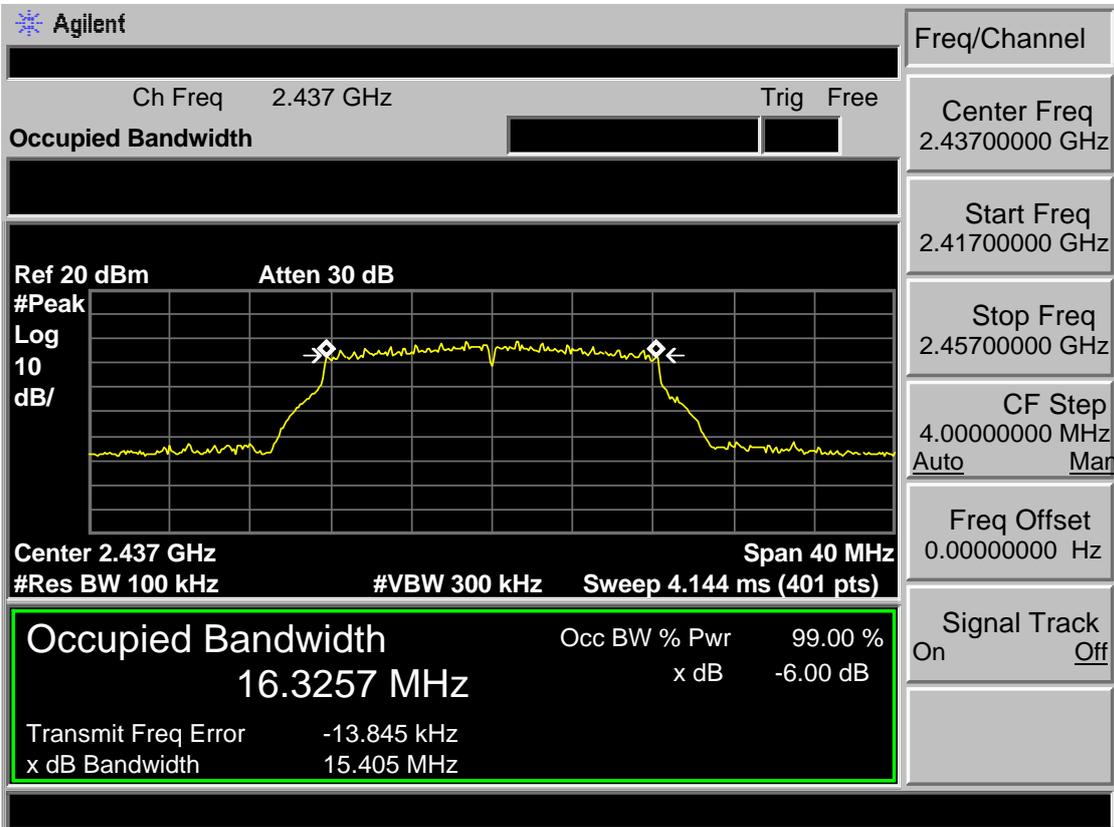
Freq Offset 0.00000000 Hz

Signal Track On Off

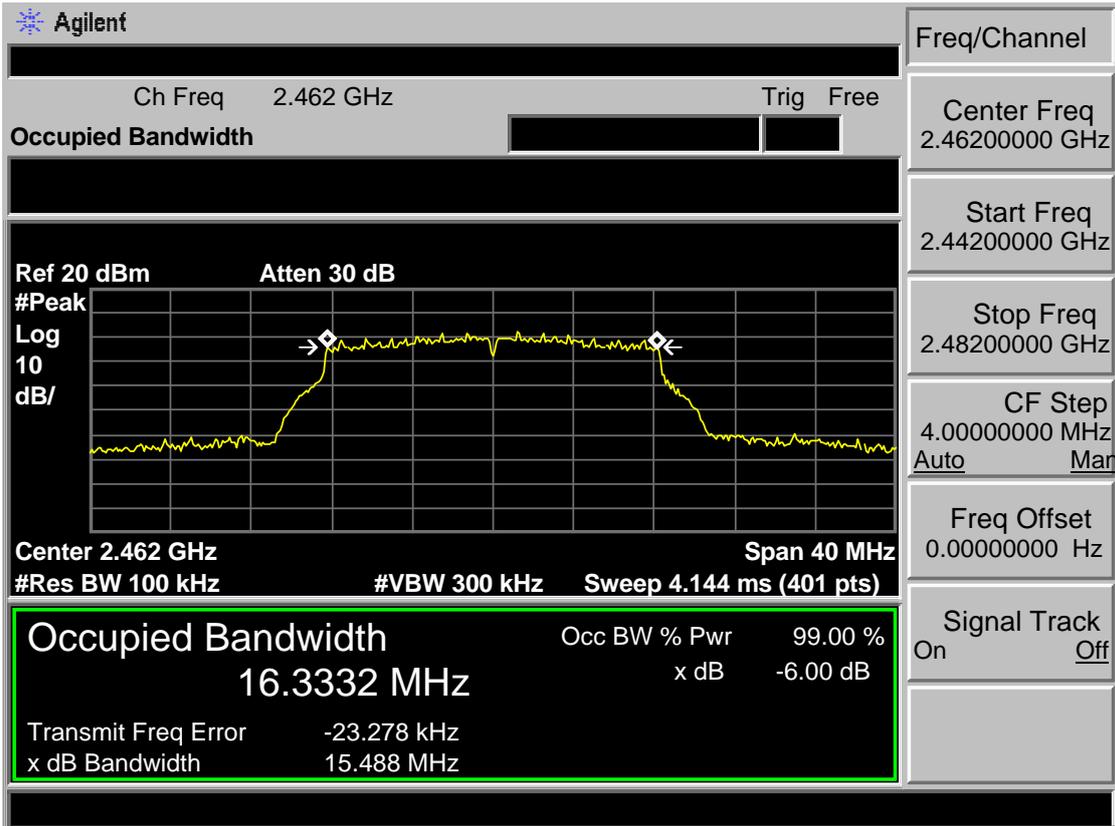
Test Mode: IEEE 802.11n HT20 2412MHz



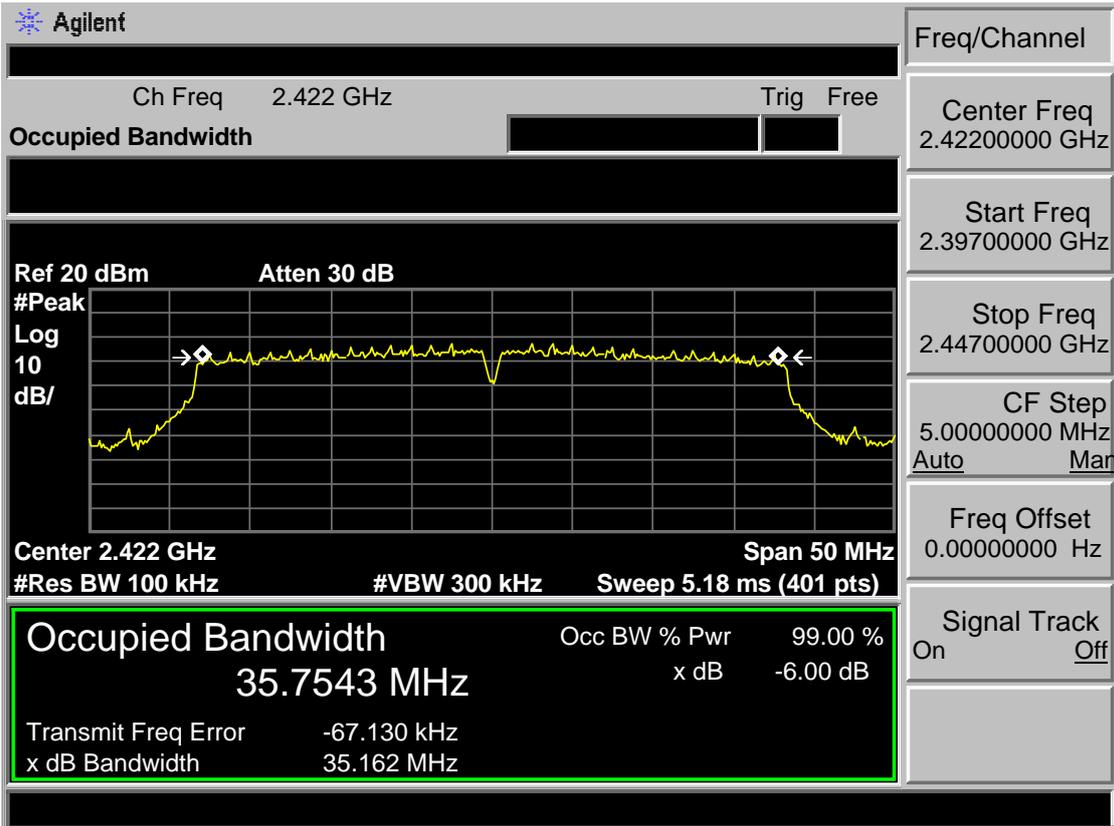
Test Mode: IEEE 802.11n HT20 2437MHz



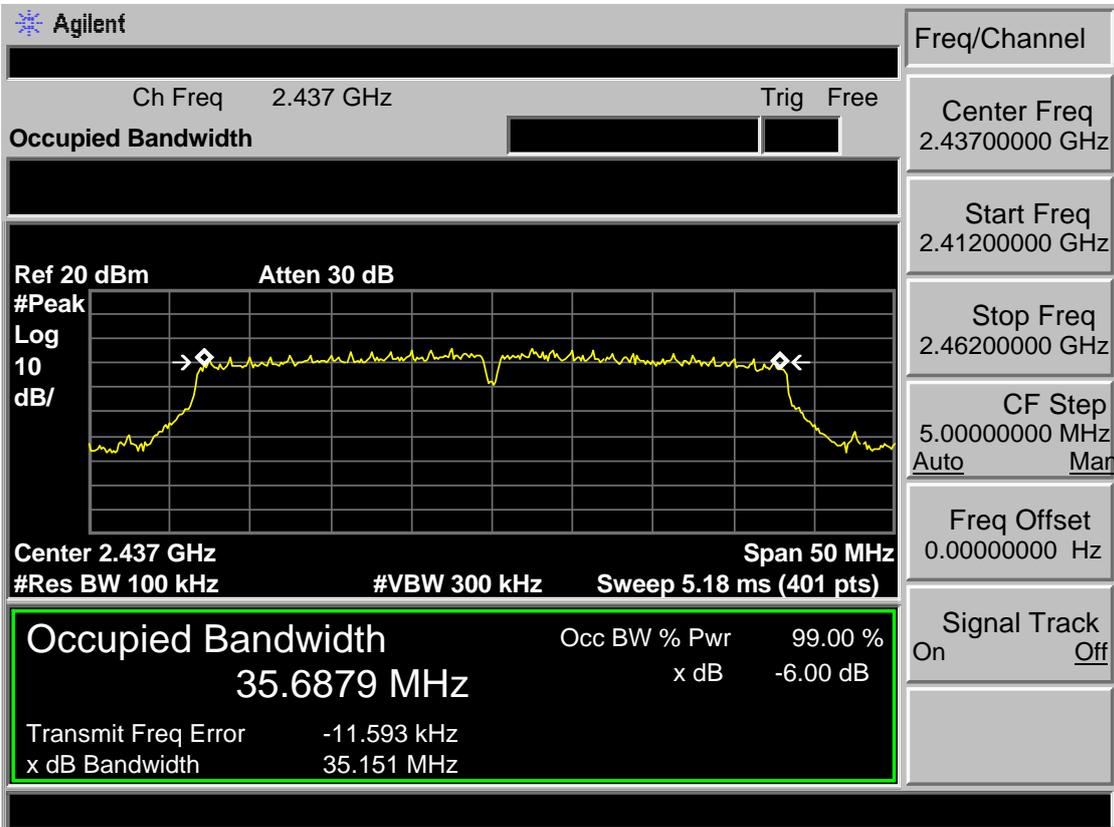
Test Mode: IEEE 802.11n HT20 2462MHz



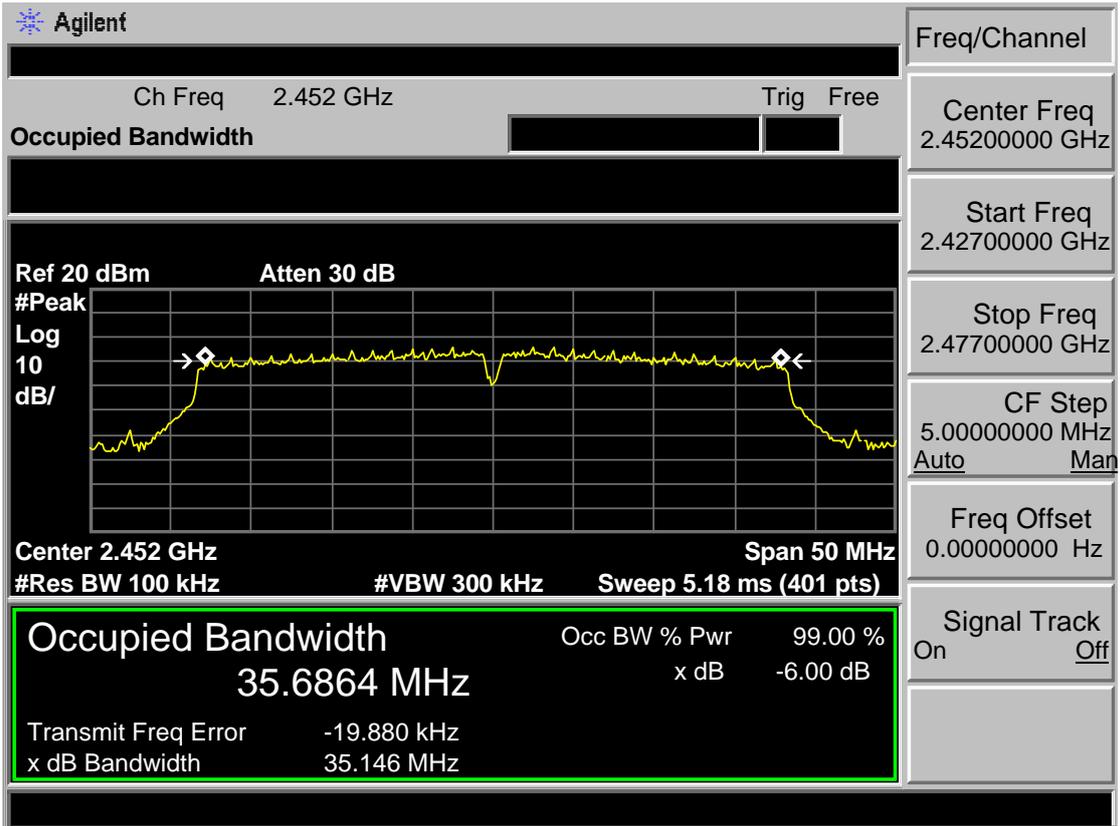
Test Mode: IEEE 802.11n HT40 2422MHz



Test Mode: IEEE 802.11n HT40 2437MHz



Test Mode: IEEE 802.11n HT40 2452MHz

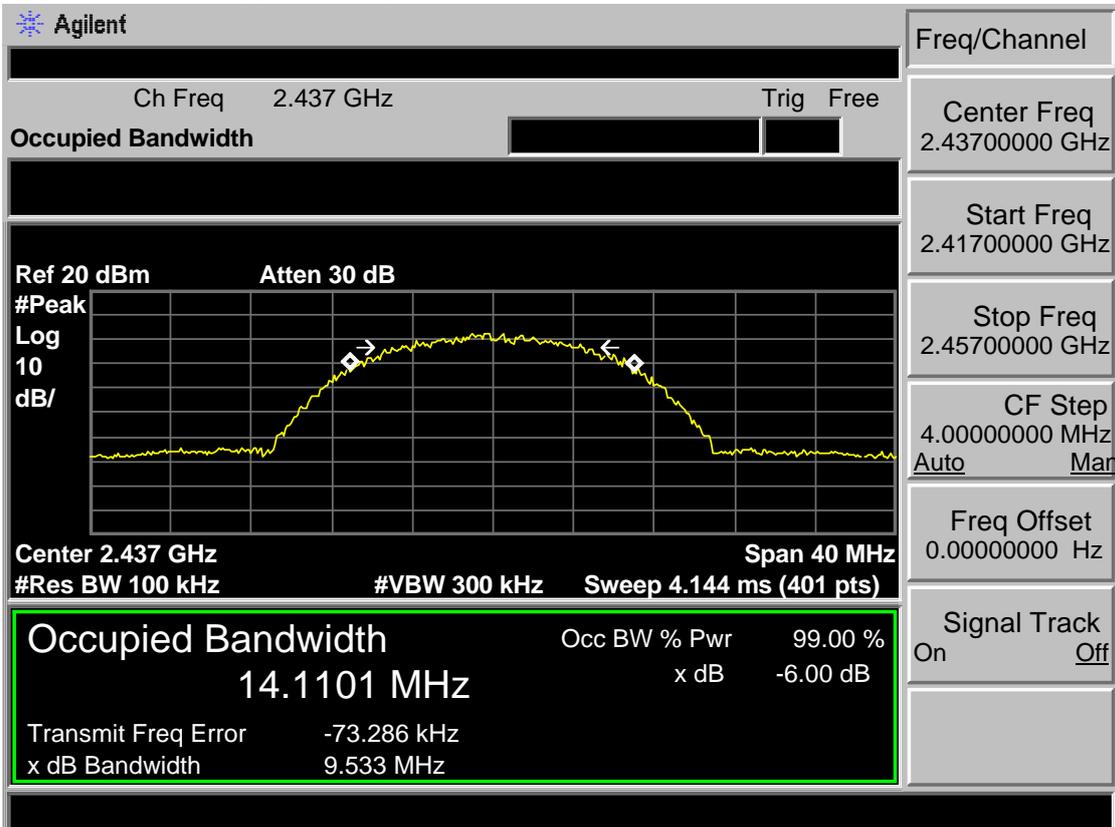


Antenna 1

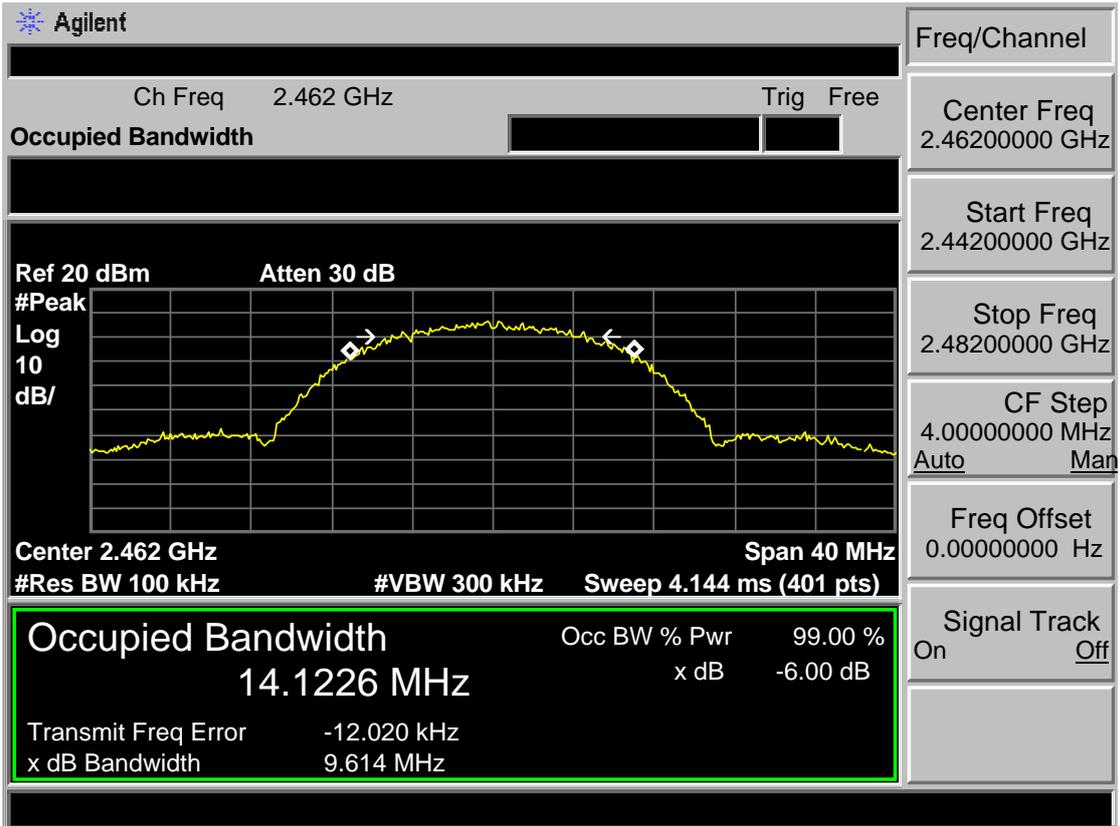
Test Mode: IEEE 802.11b 2412MHz



Test Mode: IEEE 802.11b 2437MHz



Test Mode: IEEE 802.11b 2462MHz



Test Mode: IEEE 802.11g 2412MHz

| | | | |
|---|--|------------------------------------|--|
| | | Freq/Channel | |
| Ch Freq 2.412 GHz Trig Free | | Center Freq 2.41200000 GHz | |
| Occupied Bandwidth | | Start Freq 2.39200000 GHz | |
| Ref 20 dBm Atten 30 dB | | Stop Freq 2.43200000 GHz | |
| | | CF Step 4.00000000 MHz Auto Man | |
| Center 2.412 GHz Span 40 MHz | | Freq Offset 0.00000000 Hz | |
| #Res BW 100 kHz #VBW 300 kHz Sweep 4.144 ms (401 pts) | | Signal Track On Off | |
| Occupied Bandwidth | | Occ BW % Pwr 99.00 % | |
| 16.2906 MHz | | x dB -6.00 dB | |
| Transmit Freq Error 17.437 kHz | | | |
| x dB Bandwidth 15.550 MHz | | | |

Test Mode: IEEE 802.11g 2437MHz

| | | | |
|---|--|------------------------------------|--|
| | | Freq/Channel | |
| Ch Freq 2.437 GHz Trig Free | | Center Freq 2.43700000 GHz | |
| Occupied Bandwidth | | Start Freq 2.41700000 GHz | |
| Ref 20 dBm Atten 30 dB | | Stop Freq 2.45700000 GHz | |
| | | CF Step 4.00000000 MHz Auto Man | |
| Center 2.437 GHz Span 40 MHz | | Freq Offset 0.00000000 Hz | |
| #Res BW 100 kHz #VBW 300 kHz Sweep 4.144 ms (401 pts) | | Signal Track On Off | |
| Occupied Bandwidth | | Occ BW % Pwr 99.00 % | |
| 16.2877 MHz | | x dB -6.00 dB | |
| Transmit Freq Error -24.657 kHz | | | |
| x dB Bandwidth 15.720 MHz | | | |

Test Mode: IEEE 802.11g 2462MHz

Agilent

Ch Freq 2.462 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

Center 2.462 GHz Span 40 MHz

#Res BW 100 kHz #VBW 300 kHz Sweep 4.144 ms (401 pts)

| | | | |
|---------------------------|------------|--------------|----------|
| Occupied Bandwidth | | Occ BW % Pwr | 99.00 % |
| 16.2723 MHz | | x dB | -6.00 dB |
| Transmit Freq Error | 9.017 kHz | | |
| x dB Bandwidth | 15.812 MHz | | |

Freq/Channel

Center Freq
2.46200000 GHz

Start Freq
2.44200000 GHz

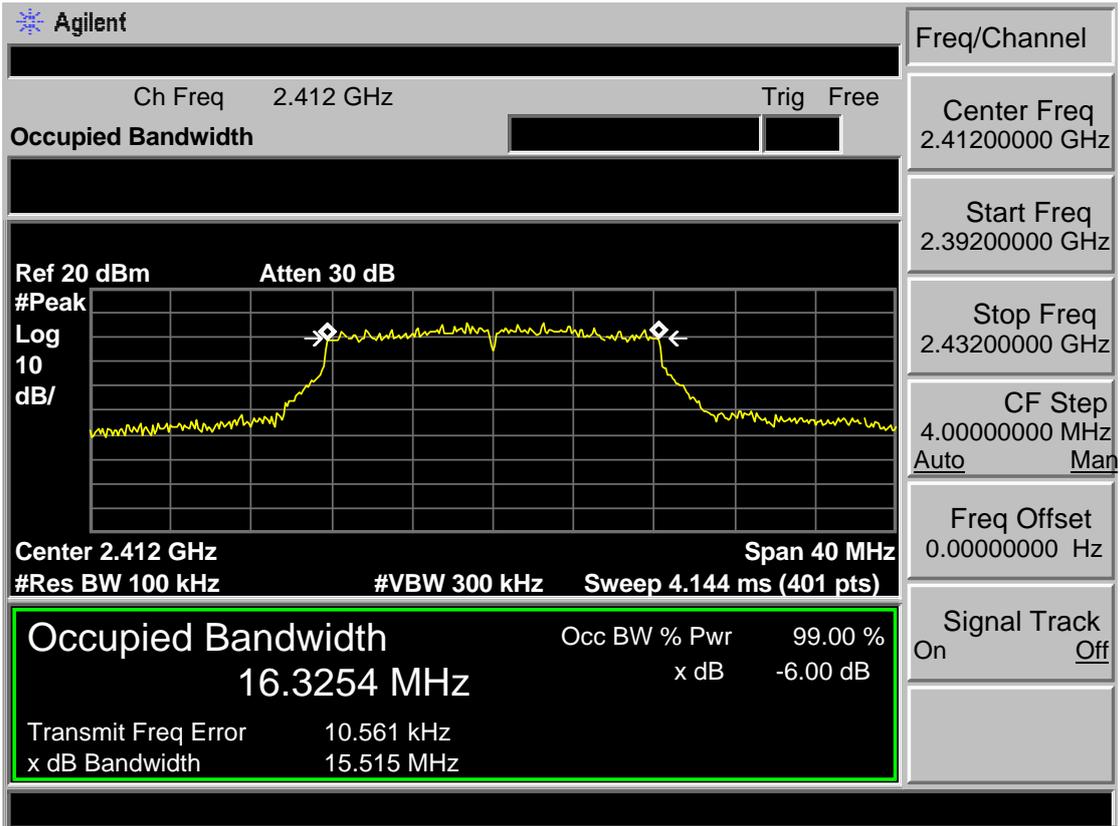
Stop Freq
2.48200000 GHz

CF Step
4.00000000 MHz
Auto Man

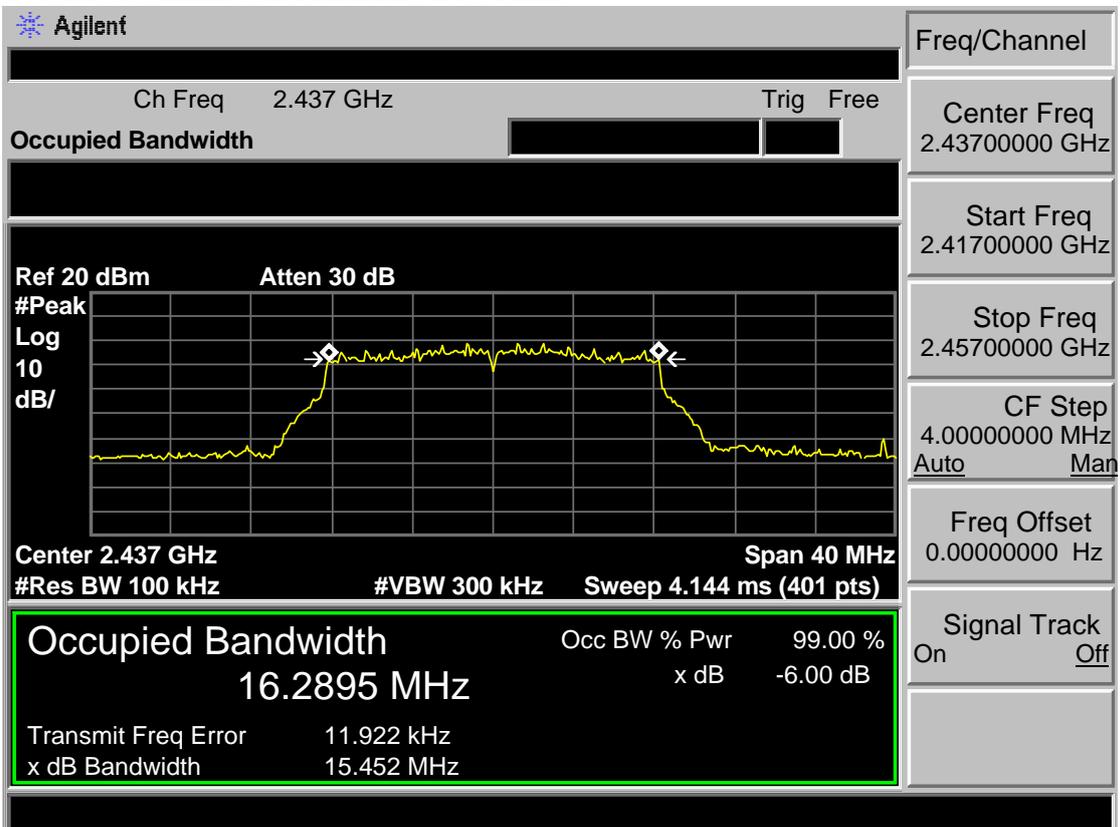
Freq Offset
0.00000000 Hz

Signal Track
On Off

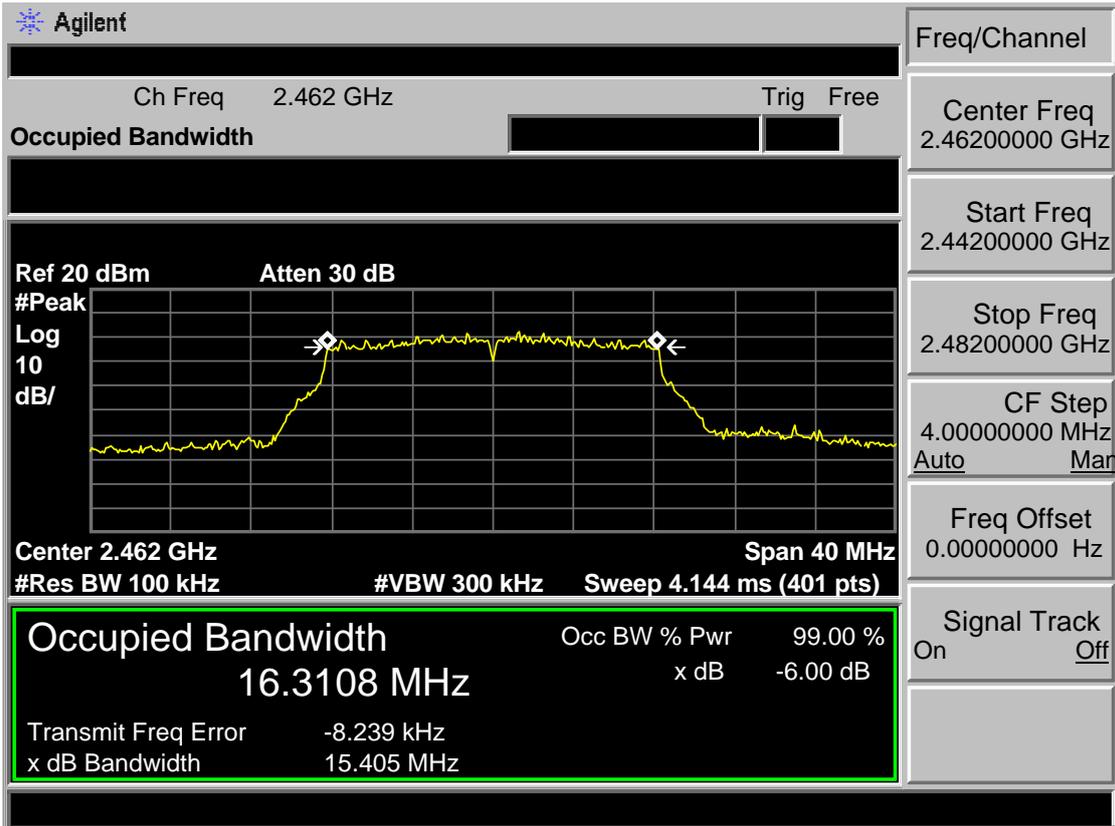
Test Mode: IEEE 802.11n HT20 2412MHz



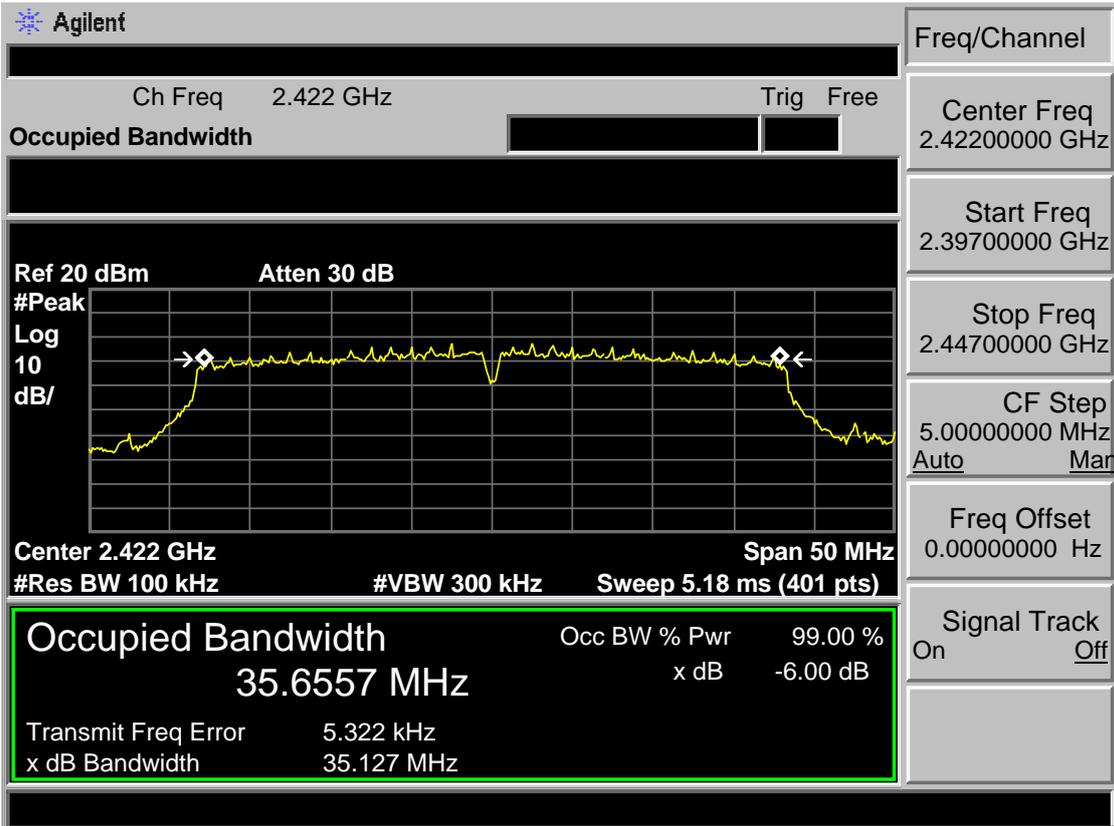
Test Mode: IEEE 802.11n HT20 2437MHz



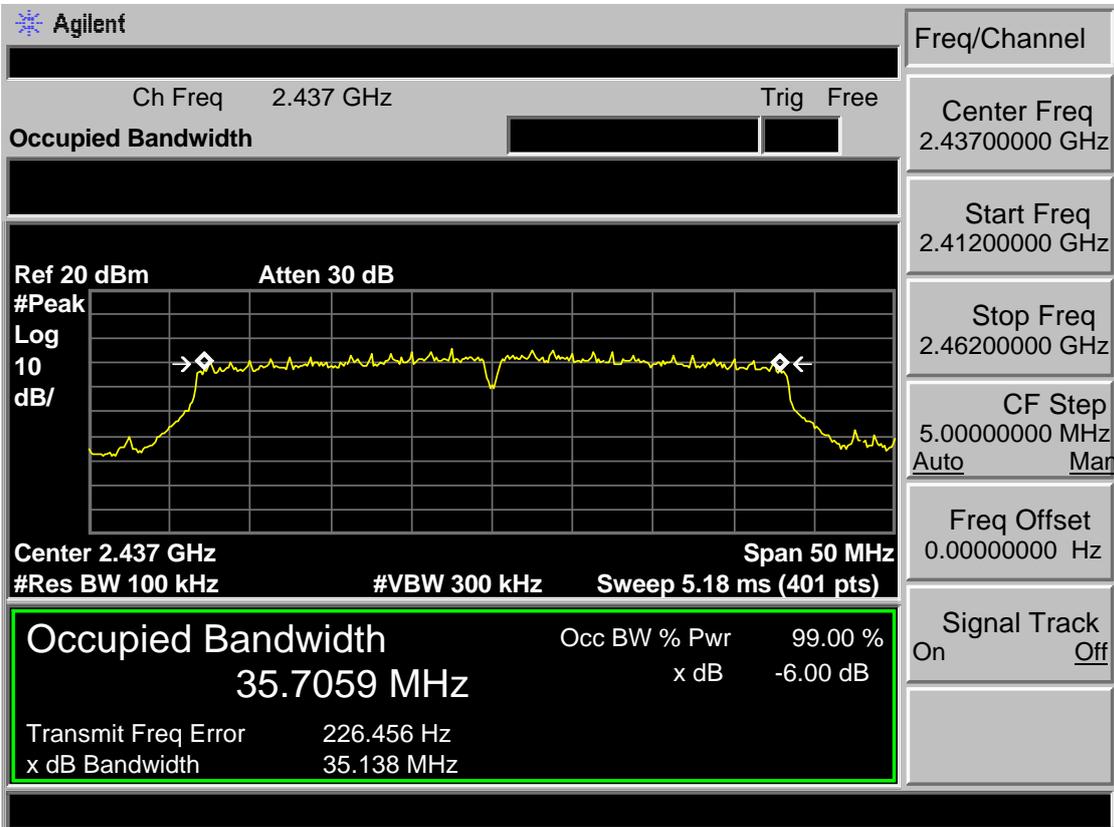
Test Mode: IEEE 802.11n HT20 2462MHz



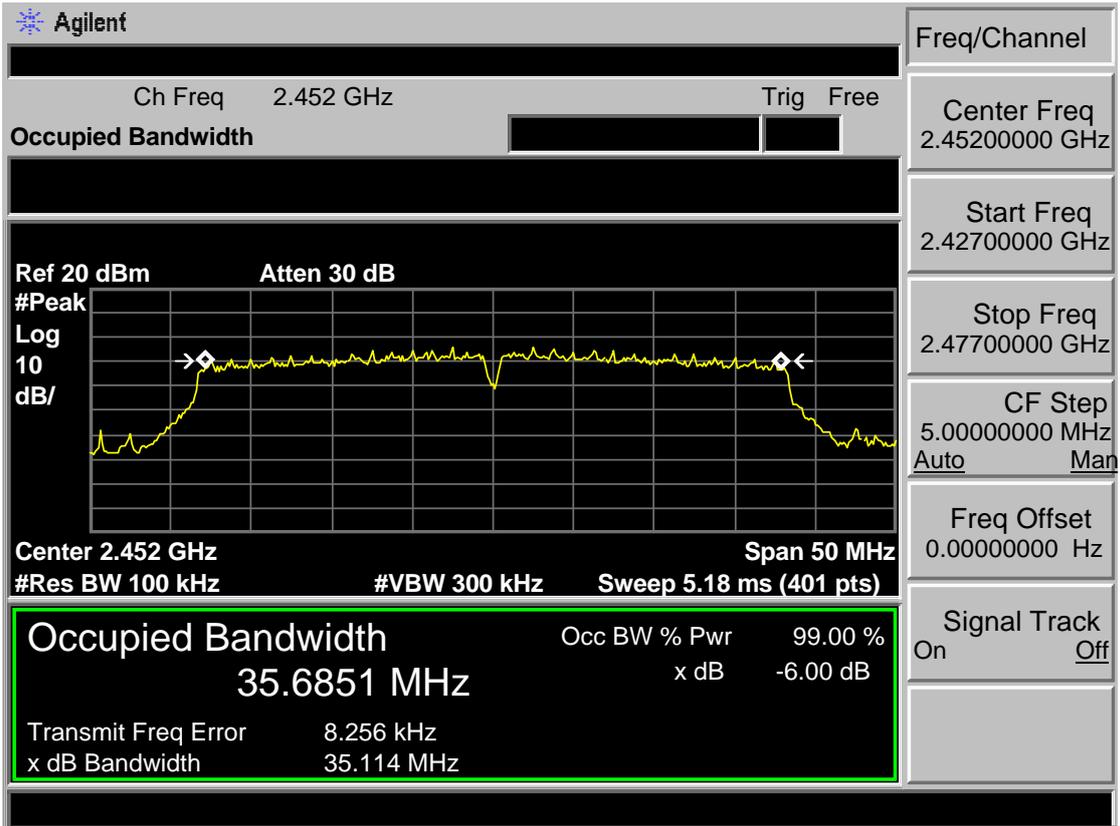
Test Mode: IEEE 802.11n HT40 2422MHz



Test Mode: IEEE 802.11n HT40 2437MHz



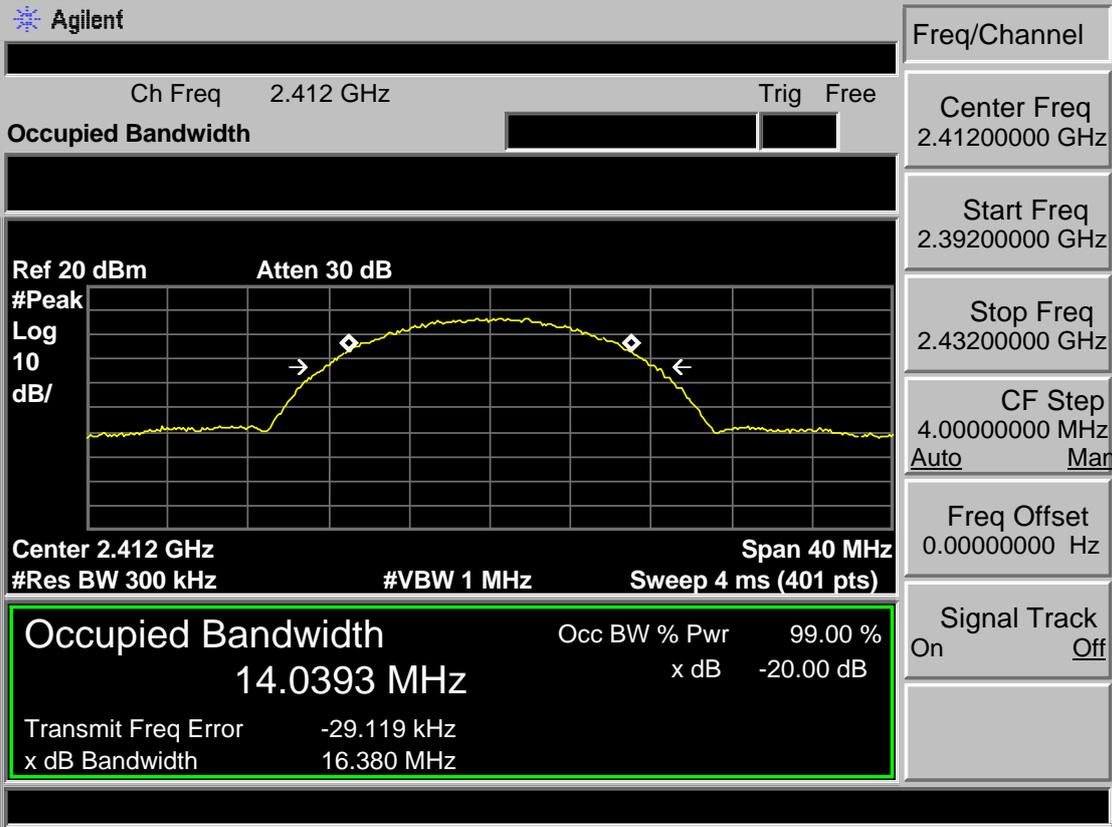
Test Mode: IEEE 802.11n HT40 2452MHz



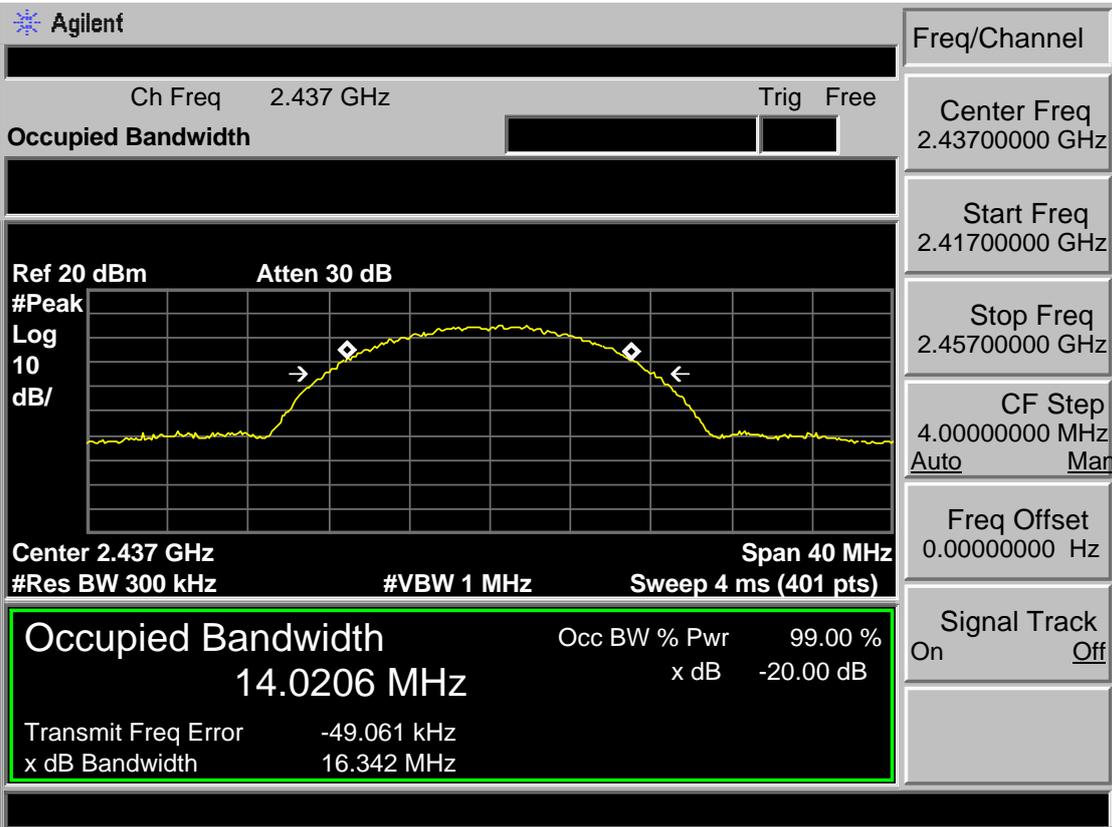
6.6 20dB Test Data

Antenna 0

Test Mode: IEEE 802.11b 2412MHz



Test Mode: IEEE 802.11b 2437MHz



Test Mode: IEEE 802.11b 2462MHz

Agilent

Ch Freq 2.462 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

#Peak Log 10 dB/

Center 2.462 GHz Span 40 MHz

#Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

14.0848 MHz x dB -20.00 dB

Transmit Freq Error -4.744 kHz

x dB Bandwidth 16.462 MHz

Freq/Channel

Center Freq 2.46200000 GHz

Start Freq 2.44200000 GHz

Stop Freq 2.48200000 GHz

CF Step 4.00000000 MHz

Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

Test Mode: IEEE 802.11g 2412MHz

| | | | |
|---|--|------------------------------------|--|
| | | Freq/Channel | |
| Ch Freq 2.412 GHz Trig Free | | Center Freq 2.41200000 GHz | |
| Occupied Bandwidth | | Start Freq 2.39200000 GHz | |
| | | Stop Freq 2.43200000 GHz | |
| Ref 20 dBm Atten 30 dB | | CF Step 4.00000000 MHz Auto Man | |
| #Peak Log 10 dB/ | | Freq Offset 0.00000000 Hz | |
| Center 2.412 GHz Span 40 MHz | | Signal Track On Off | |
| #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) | | | |
| Occupied Bandwidth | | Occ BW % Pwr 99.00 % | |
| 16.5316 MHz | | x dB -20.00 dB | |
| Transmit Freq Error 30.491 kHz | | | |
| x dB Bandwidth 18.530 MHz | | | |

Test Mode: IEEE 802.11g 2437MHz

| | | | |
|---|--|------------------------------------|--|
| | | Freq/Channel | |
| Ch Freq 2.437 GHz Trig Free | | Center Freq 2.43700000 GHz | |
| Occupied Bandwidth | | Start Freq 2.41700000 GHz | |
| | | Stop Freq 2.45700000 GHz | |
| Ref 20 dBm Atten 30 dB | | CF Step 4.00000000 MHz Auto Man | |
| #Peak Log 10 dB/ | | Freq Offset 0.00000000 Hz | |
| Center 2.437 GHz Span 40 MHz | | Signal Track On Off | |
| #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) | | | |
| Occupied Bandwidth | | Occ BW % Pwr 99.00 % | |
| 16.5268 MHz | | x dB -20.00 dB | |
| Transmit Freq Error 18.112 kHz | | | |
| x dB Bandwidth 18.598 MHz | | | |

Test Mode: IEEE 802.11g 2462MHz

Agilent

Ch Freq 2.462 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

#Peak
Log
10
dB/

Center 2.462 GHz Span 40 MHz
#Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %
16.4798 MHz x dB -20.00 dB

Transmit Freq Error 12.287 kHz
x dB Bandwidth 18.552 MHz

Freq/Channel

Center Freq 2.46200000 GHz

Start Freq 2.44200000 GHz

Stop Freq 2.48200000 GHz

CF Step 4.00000000 MHz
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

Test Mode: IEEE 802.11n HT20 2412MHz

| | | | |
|---|--|------------------------------------|--|
| | | Freq/Channel | |
| Ch Freq 2.412 GHz Trig Free | | Center Freq 2.41200000 GHz | |
| Occupied Bandwidth | | Start Freq 2.39200000 GHz | |
| | | Stop Freq 2.43200000 GHz | |
| Ref 20 dBm Atten 30 dB | | CF Step 4.00000000 MHz Auto Man | |
| #Peak Log 10 dB/ | | Freq Offset 0.00000000 Hz | |
| Center 2.412 GHz Span 40 MHz | | Signal Track On Off | |
| #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) | | | |
| Occupied Bandwidth | | Occ BW % Pwr 99.00 % | |
| 16.5393 MHz | | x dB -20.00 dB | |
| Transmit Freq Error -11.988 kHz | | | |
| x dB Bandwidth 18.439 MHz | | | |

Test Mode: IEEE 802.11n HT20 2437MHz

| | | | |
|---|--|------------------------------------|--|
| | | Freq/Channel | |
| Ch Freq 2.437 GHz Trig Free | | Center Freq 2.43700000 GHz | |
| Occupied Bandwidth | | Start Freq 2.41700000 GHz | |
| | | Stop Freq 2.45700000 GHz | |
| Ref 20 dBm Atten 30 dB | | CF Step 4.00000000 MHz Auto Man | |
| #Peak Log 10 dB/ | | Freq Offset 0.00000000 Hz | |
| Center 2.437 GHz Span 40 MHz | | Signal Track On Off | |
| #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) | | | |
| Occupied Bandwidth | | Occ BW % Pwr 99.00 % | |
| 16.5846 MHz | | x dB -20.00 dB | |
| Transmit Freq Error -4.550 kHz | | | |
| x dB Bandwidth 18.645 MHz | | | |

Test Mode: IEEE 802.11n HT20 2462MHz

Agilent

Ch Freq 2.462 GHz Trig Free

Occupied Bandwidth

Center 2.462 GHz Span 40 MHz
#Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts)

Freq/Channel

Center Freq 2.46200000 GHz

Start Freq 2.44200000 GHz

Stop Freq 2.48200000 GHz

CF Step 4.00000000 MHz
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

Occupied Bandwidth Occ BW % Pwr 99.00 %

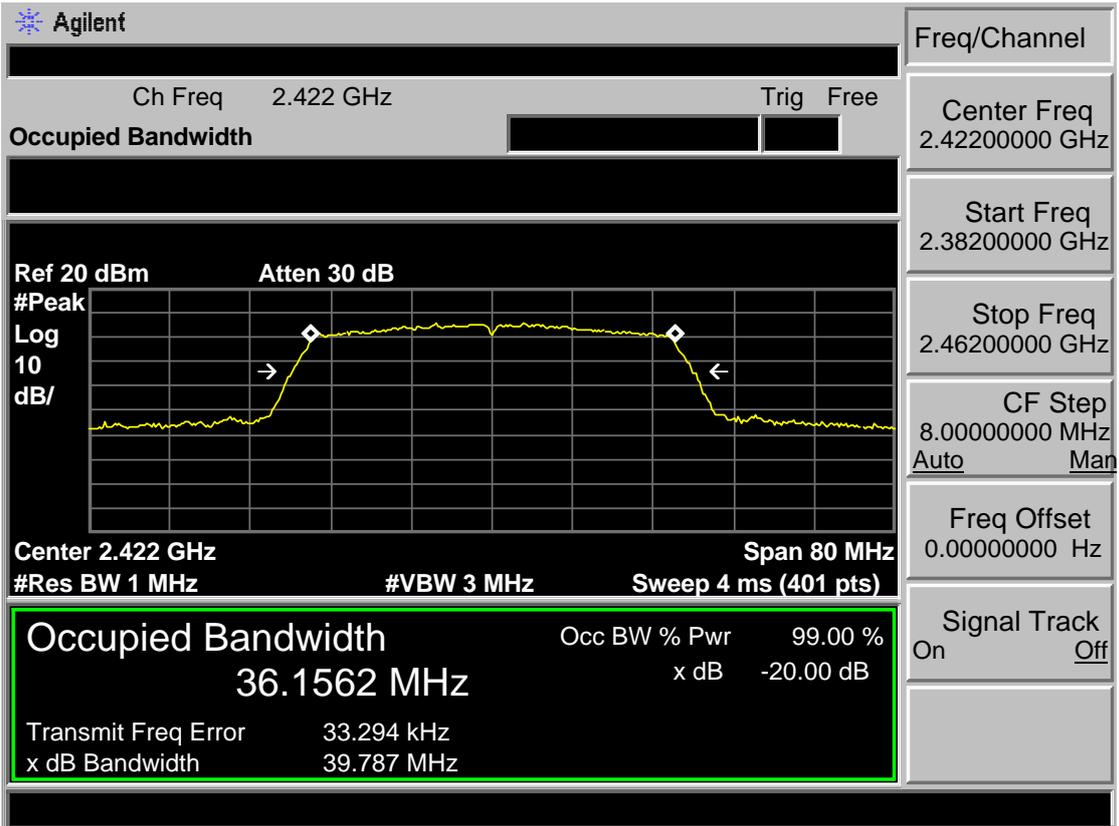
16.5697 MHz

x dB -20.00 dB

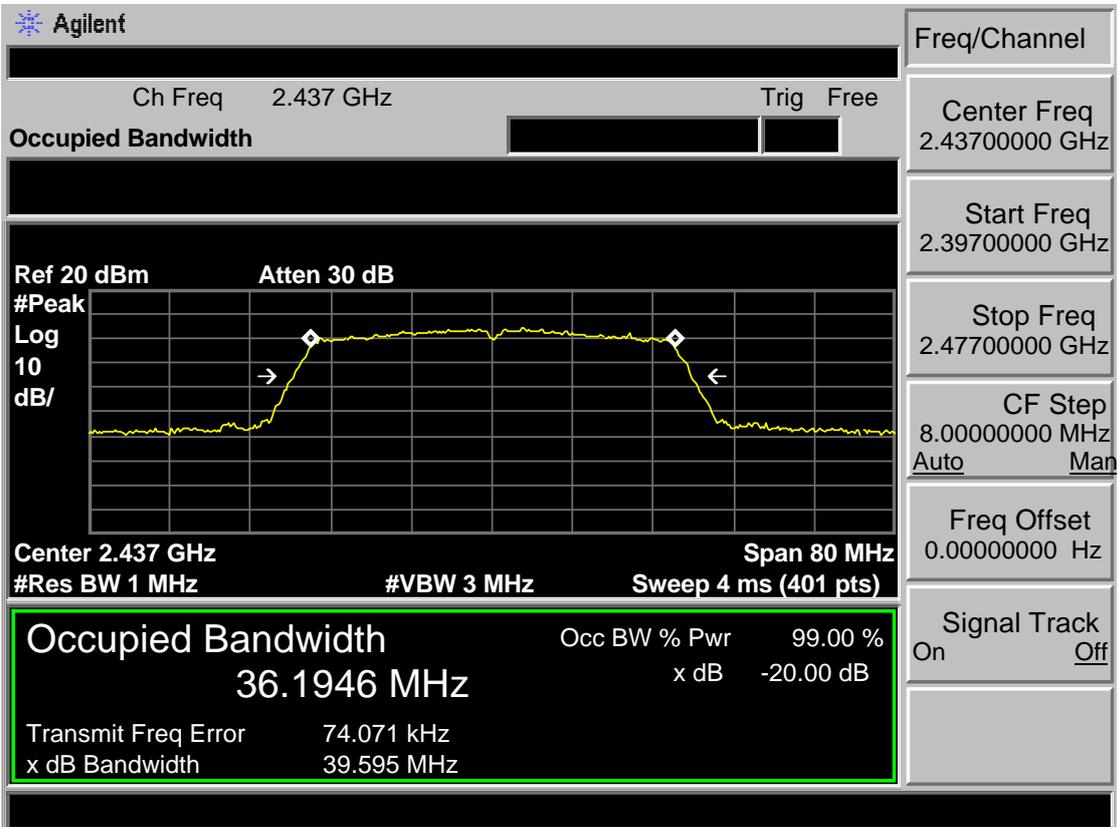
Transmit Freq Error -7.989 kHz

x dB Bandwidth 18.624 MHz

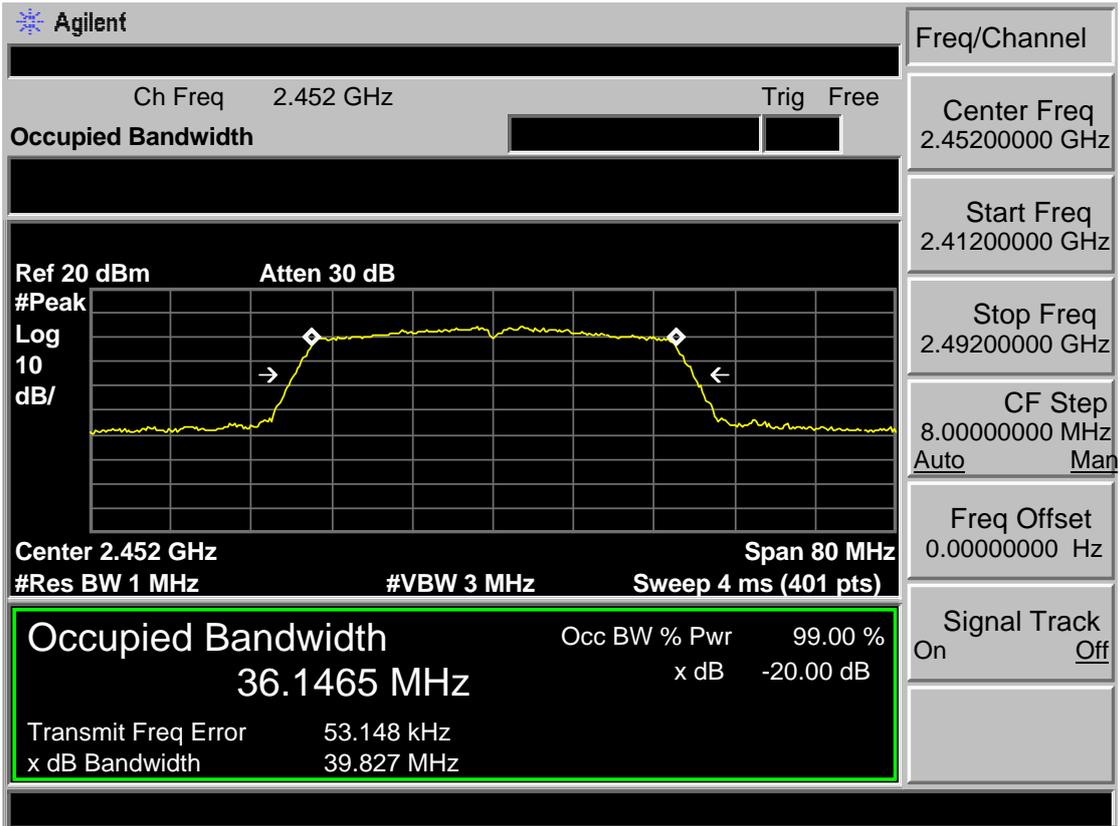
Test Mode: IEEE 802.11n HT40 2422MHz



Test Mode: IEEE 802.11n HT40 2437MHz

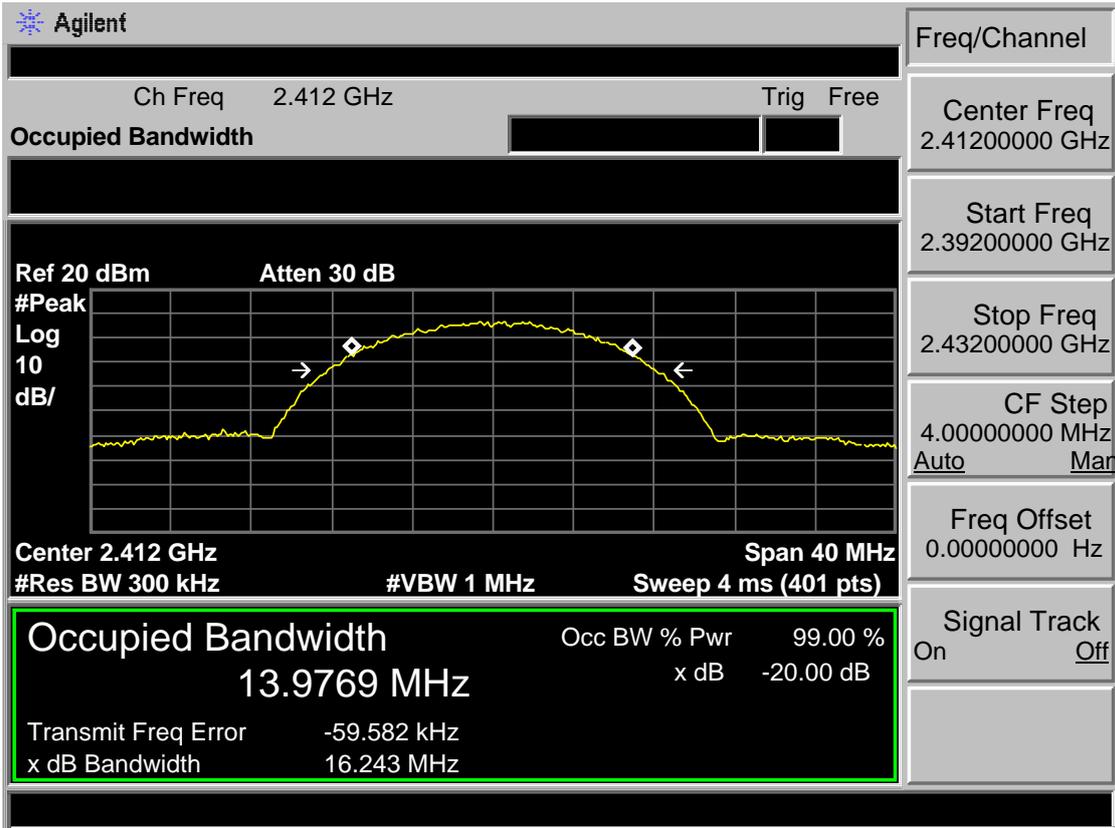


Test Mode: IEEE 802.11n HT40 2452MHz

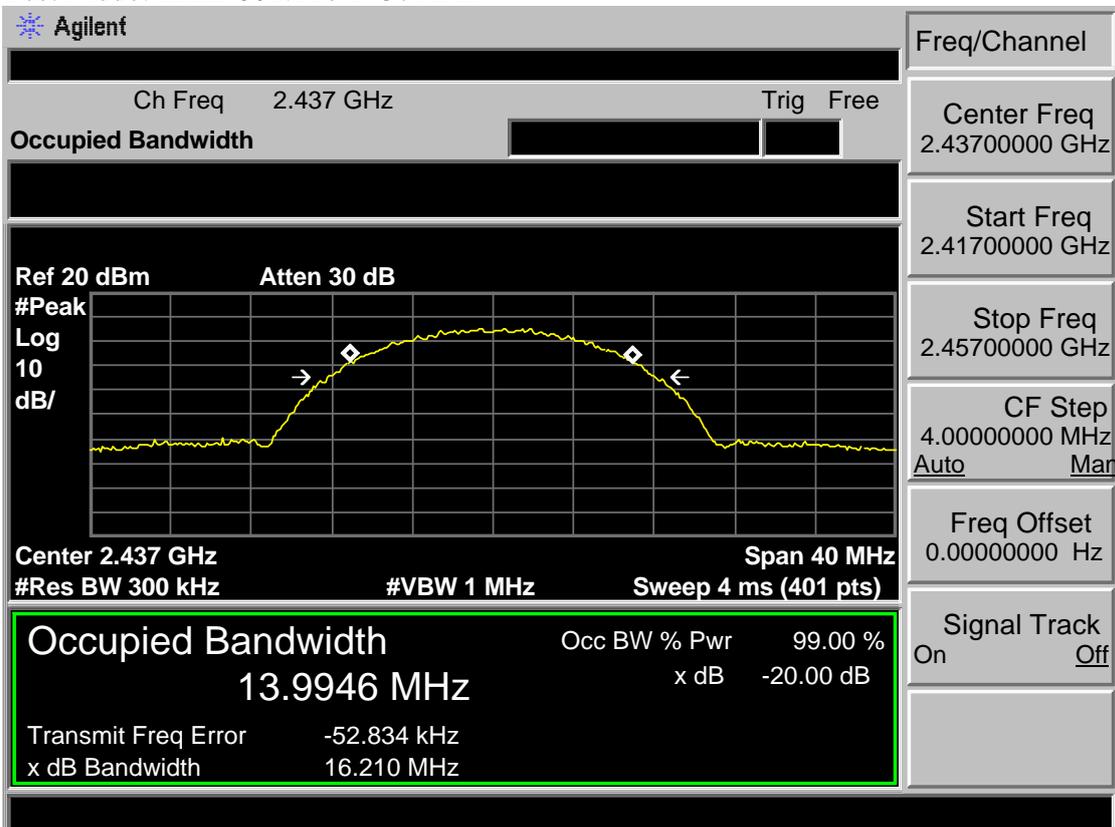


Antenna 1

Test Mode: IEEE 802.11b 2412MHz



Test Mode: IEEE 802.11b 2437MHz



Test Mode: IEEE 802.11b 2462MHz

Agilent

Ch Freq 2.462 GHz Trig Free

Occupied Bandwidth

Center 2.462 GHz Span 40 MHz
#Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts)

| | | | |
|---------------------------|-------------|--------------|-----------|
| Occupied Bandwidth | | Occ BW % Pwr | 99.00 % |
| 14.0081 MHz | | x dB | -20.00 dB |
| Transmit Freq Error | -50.881 kHz | | |
| x dB Bandwidth | 16.210 MHz | | |

Freq/Channel

Center Freq
2.46200000 GHz

Start Freq
2.44200000 GHz

Stop Freq
2.48200000 GHz

CF Step
4.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Test Mode: IEEE 802.11g 2412MHz

| | | | |
|---|--|--|--|
| | | Freq/Channel | |
| Ch Freq 2.412 GHz Trig Free | | Center Freq 2.41200000 GHz | |
| Occupied Bandwidth | | Start Freq 2.39200000 GHz | |
| Ref 20 dBm Atten 30 dB | | Stop Freq 2.43200000 GHz | |
| | | CF Step 4.00000000 MHz Auto Man | |
| Center 2.412 GHz Span 40 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) | | Freq Offset 0.00000000 Hz | |
| Occupied Bandwidth | | Occ BW % Pwr 99.00 % x dB -20.00 dB | |
| 16.4385 MHz | | Signal Track On Off | |
| Transmit Freq Error 54.010 Hz x dB Bandwidth 18.467 MHz | | | |

Test Mode: IEEE 802.11g 2437MHz

| | | | |
|---|--|--|--|
| | | Freq/Channel | |
| Ch Freq 2.437 GHz Trig Free | | Center Freq 2.43700000 GHz | |
| Occupied Bandwidth | | Start Freq 2.41700000 GHz | |
| Ref 20 dBm Atten 30 dB | | Stop Freq 2.45700000 GHz | |
| | | CF Step 4.00000000 MHz Auto Man | |
| Center 2.437 GHz Span 40 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) | | Freq Offset 0.00000000 Hz | |
| Occupied Bandwidth | | Occ BW % Pwr 99.00 % x dB -20.00 dB | |
| 16.4849 MHz | | Signal Track On Off | |
| Transmit Freq Error 5.436 kHz x dB Bandwidth 18.524 MHz | | | |

Test Mode: IEEE 802.11g 2462MHz

Agilent

Ch Freq 2.462 GHz Trig Free

Occupied Bandwidth

Center 2.462 GHz Span 40 MHz
 #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts)

Freq/Channel

Center Freq 2.46200000 GHz

Start Freq 2.44200000 GHz

Stop Freq 2.48200000 GHz

CF Step 4.00000000 MHz
 Auto Man

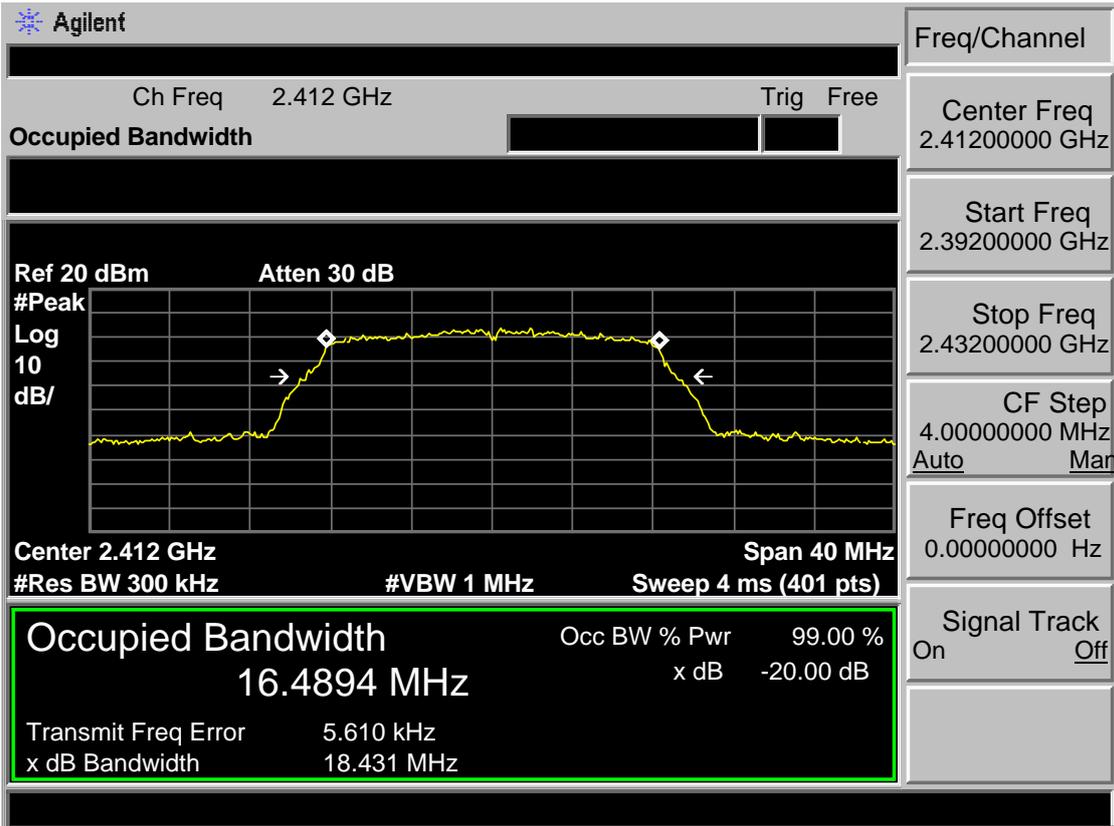
Freq Offset 0.00000000 Hz

Signal Track On Off

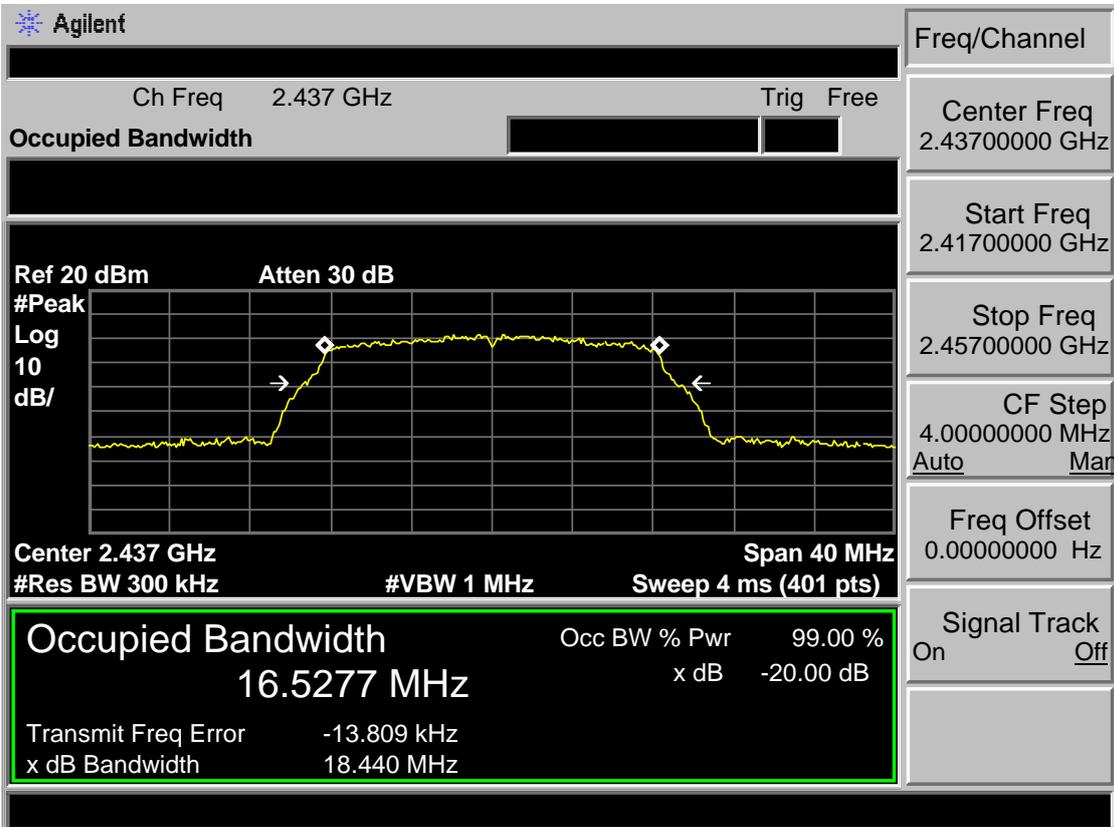
Occupied Bandwidth Occ BW % Pwr 99.00 %
 16.5435 MHz x dB -20.00 dB

Transmit Freq Error 13.796 kHz
 x dB Bandwidth 18.407 MHz

Test Mode: IEEE 802.11n HT20 2412MHz



Test Mode: IEEE 802.11n HT20 2437MHz



Test Mode: IEEE 802.11n HT20 2462MHz

Agilent

Ch Freq 2.462 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

Center 2.462 GHz Span 40 MHz

#Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts)

Freq/Channel

Center Freq 2.46200000 GHz

Start Freq 2.44200000 GHz

Stop Freq 2.48200000 GHz

CF Step 4.00000000 MHz
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

Occupied Bandwidth Occ BW % Pwr 99.00 %

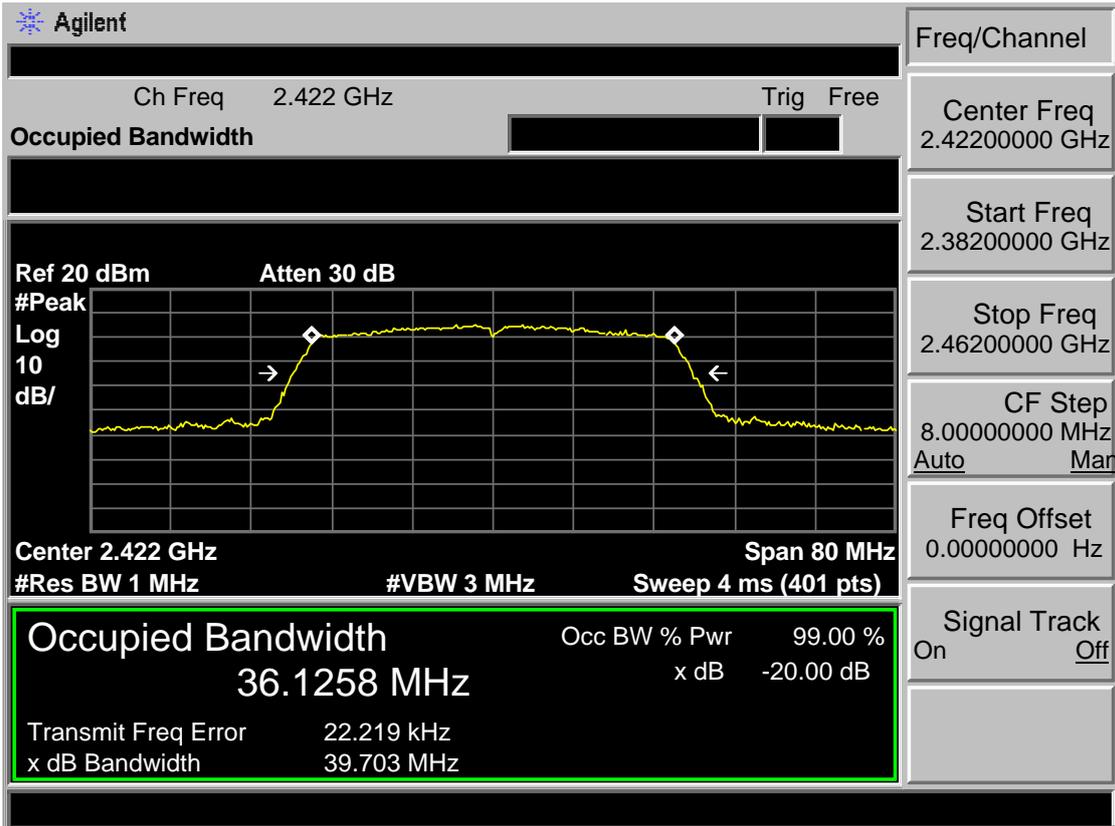
16.5385 MHz

x dB -20.00 dB

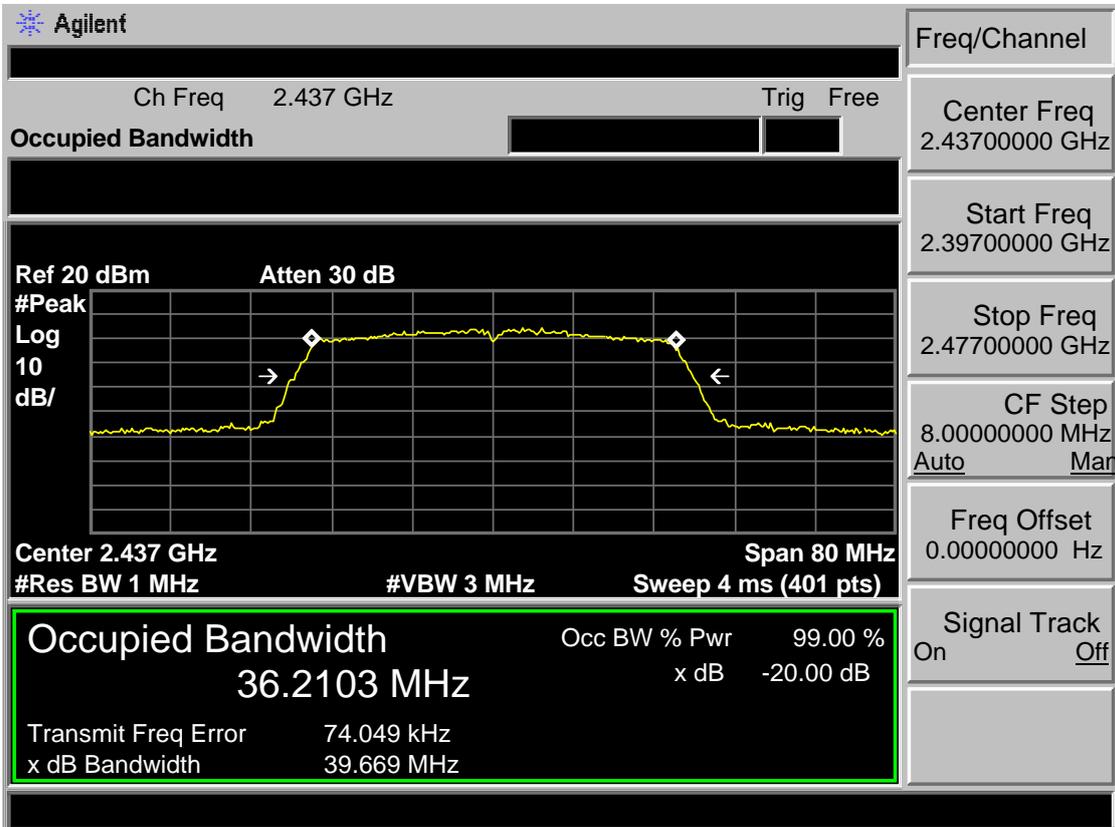
Transmit Freq Error -11.452 kHz

x dB Bandwidth 18.291 MHz

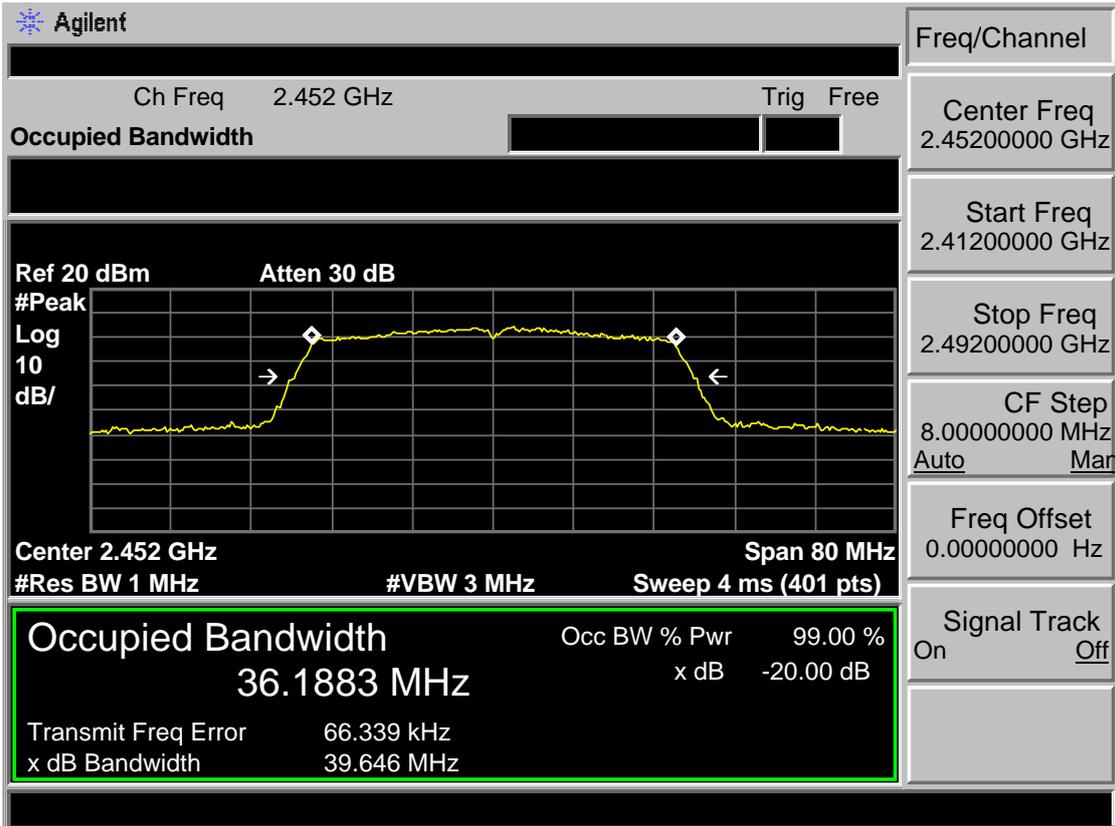
Test Mode: IEEE 802.11n HT40 2422MHz



Test Mode: IEEE 802.11n HT40 2437MHz



Test Mode: IEEE 802.11n HT40 2452MHz



7 OUTPUT POWER TEST

7.1 Limit

For systems using digital modulation in the 2400—2483.5MHz, The Peak output Power shall not exceed 1W(30dBm)

7.2 Test Procedure

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in KDB 558074
 - (1)Set span to at least 1.5 times the OBW.
 - (2)Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
 - (3)Set VBW $\geq 3 \times$ RBW.
 - (4)Number of points in sweep $\geq 2 \times$ span / RBW. (This gives bin-to-bin spacing \leq RBW/2, so that narrowband signals are not lost between frequency bins.)
 - (4)Sweep time = auto.
 - (5)Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
 - (6)If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run”.
 - (7)Trace average at least 100 traces in power averaging (i.e., RMS) mode.
 - (8)Compute power by integrating the spectrum across the OBW of the signal using the instrument’s band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

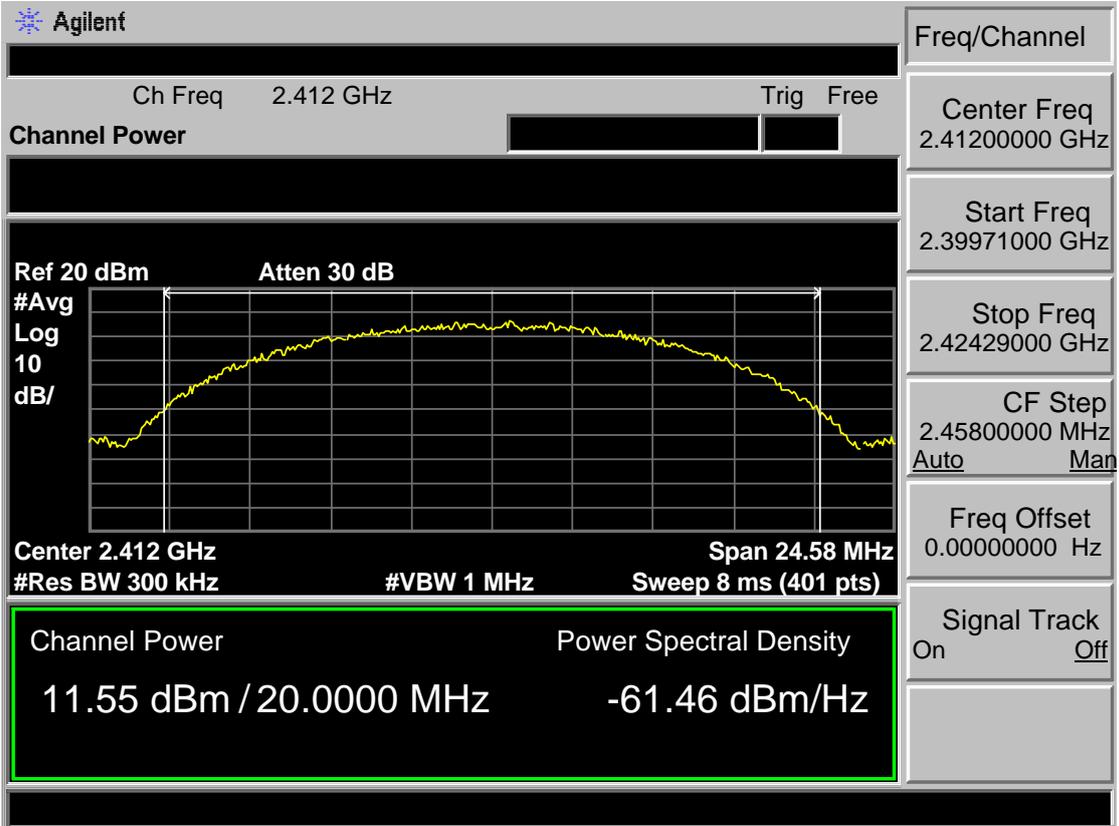
7.3 Test Result

| EUT: LED TV | | | | | |
|------------------------|------|-----------------------|-------|-------|-------------------|
| M/N: SC-40FK700N | | | | | |
| Test date: 2017-06-27 | | Test site: RF Site | | | Tested by: Viking |
| Pass | | | | | |
| Test Mode | CH | Conducted Power (dBm) | | | Limit (dBm) |
| | | Ant 0 | Ant 1 | Total | |
| IEEE 802.11 b | CH1 | 11.55 | 12.11 | / | 30 |
| | CH6 | 10.05 | 10.39 | / | 30 |
| | CH11 | 13.50 | 13.33 | / | 30 |
| IEEE 802.11 g | CH1 | 8.05 | 8.35 | / | 30 |
| | CH6 | 6.51 | 6.47 | / | 30 |
| | CH11 | 9.81 | 9.58 | / | 30 |
| IEEE 802.11 n HT 20 | CH1 | 8.00 | 8.28 | 11.15 | 30 |
| | CH6 | 6.40 | 6.43 | 9.43 | 30 |
| | CH11 | 9.95 | 9.54 | 12.76 | 30 |
| IEEE 802.11 n HT 40 | CH3 | 6.15 | 5.86 | 9.02 | 30 |
| | CH6 | 5.15 | 4.95 | 8.06 | 30 |
| | CH9 | 5.08 | 4.51 | 7.81 | 30 |
| Conclusion : PASS | | | | | |

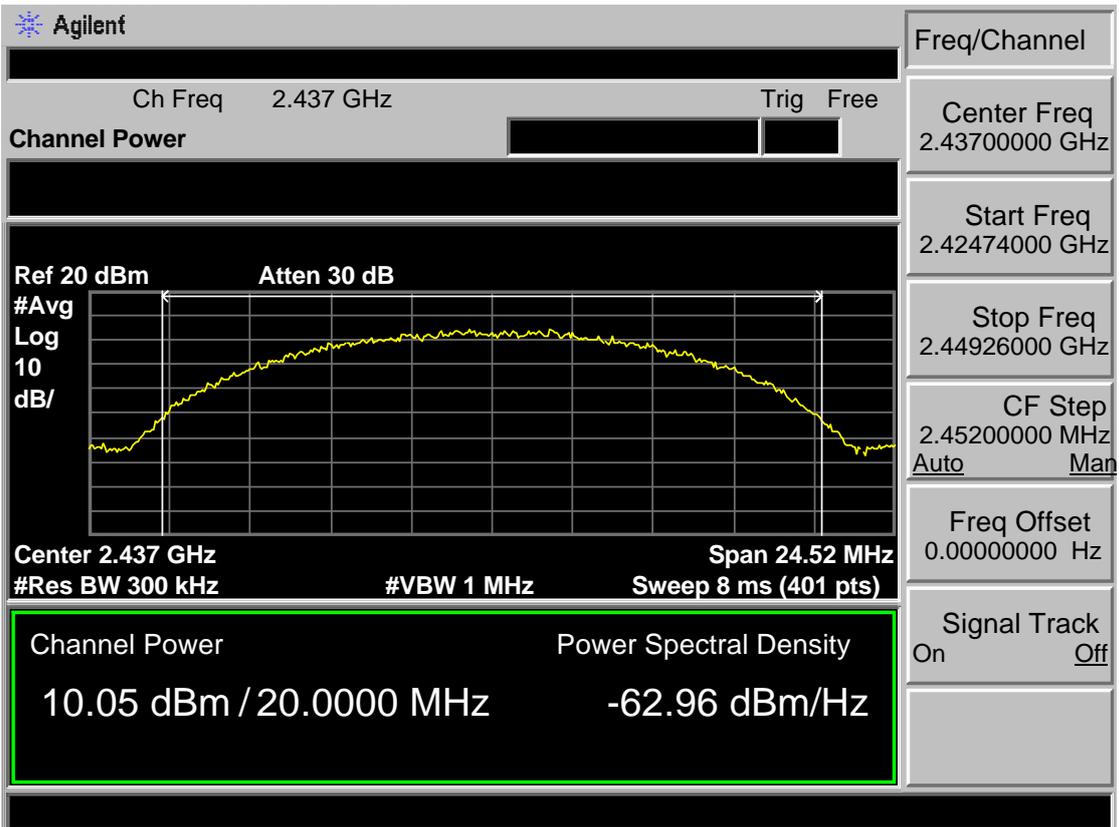
7.4 Test Data

Antenna 0

Test Mode: IEEE 802.11b 2412MHz



Test Mode: IEEE 802.11b 2437MHz



Test Mode: IEEE 802.11b 2462MHz



Test Mode: IEEE 802.11g 2412MHz

| | | | |
|---|--|------------------------------------|--|
| | | Freq/Channel | |
| Ch Freq 2.412 GHz Trig Free | | Center Freq 2.41200000 GHz | |
| Channel Power | | Start Freq 2.39810000 GHz | |
| | | Stop Freq 2.42590000 GHz | |
| Center 2.412 GHz Span 27.8 MHz | | CF Step 2.78000000 MHz Auto Man | |
| #Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts) | | Freq Offset 0.00000000 Hz | |
| Channel Power Power Spectral Density | | Signal Track On Off | |
| 8.05 dBm / 20.0000 MHz -64.96 dBm/Hz | | | |

Test Mode: IEEE 802.11g 2437MHz

| | | | |
|---|--|------------------------------------|--|
| | | Freq/Channel | |
| Ch Freq 2.437 GHz Trig Free | | Center Freq 2.43700000 GHz | |
| Channel Power | | Start Freq 2.42305000 GHz | |
| | | Stop Freq 2.45095000 GHz | |
| Center 2.437 GHz Span 27.9 MHz | | CF Step 2.79000000 MHz Auto Man | |
| #Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts) | | Freq Offset 0.00000000 Hz | |
| Channel Power Power Spectral Density | | Signal Track On Off | |
| 6.51 dBm / 20.0000 MHz -66.50 dBm/Hz | | | |

Test Mode: IEEE 802.11g 2462MHz

| | | | |
|--|--|--------------------------------------|--|
|  | | Freq/Channel | |
| Ch Freq 2.462 GHz Trig Free | | Center Freq 2.46200000 GHz | |
| Channel Power | | Start Freq 2.44808500 GHz | |
| Ref 20 dBm Atten 30 dB | | Stop Freq 2.47591500 GHz | |
|  | | CF Step 2.78300000 MHz Auto Man | |
| Center 2.462 GHz Span 27.83 MHz | | Freq Offset 0.00000000 Hz | |
| #Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts) | | Signal Track On Off | |
| Channel Power 9.81 dBm / 20.0000 MHz | | Power Spectral Density -63.20 dBm/Hz | |

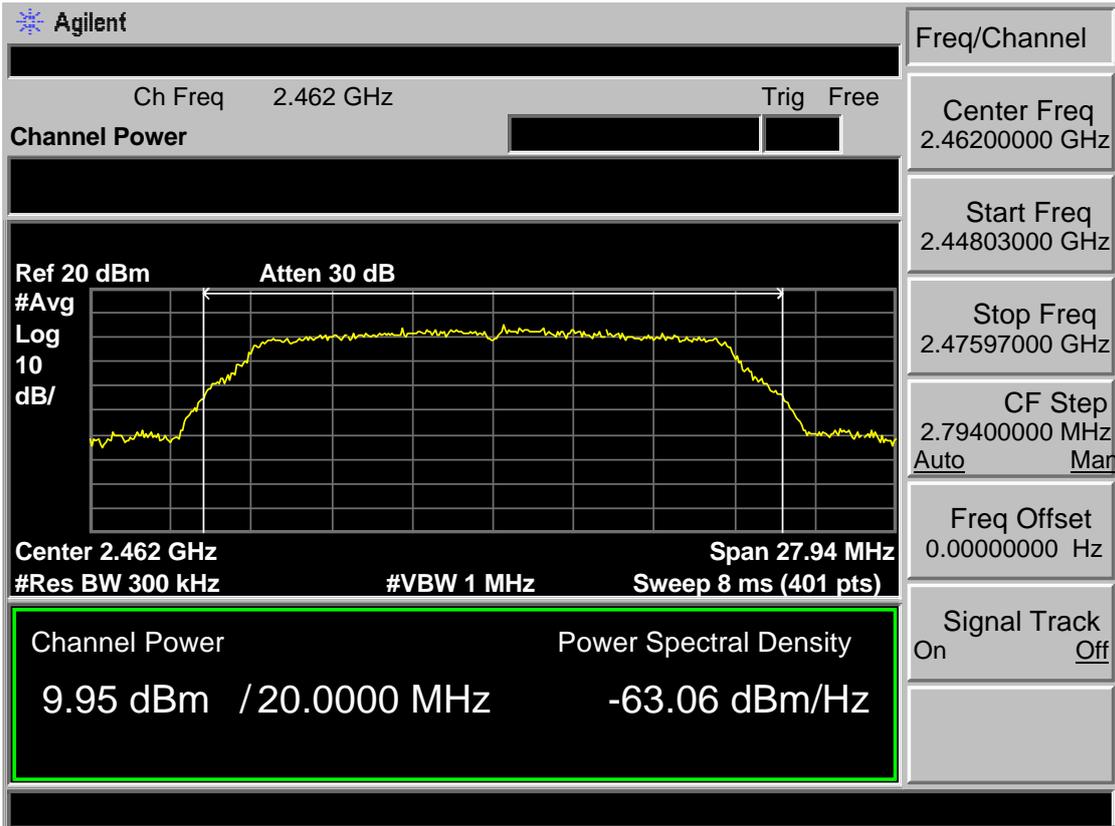
Test Mode: IEEE 802.11n HT20 2412MHz

| | | | |
|---|--|------------------------------------|--|
| | | Freq/Channel | |
| Ch Freq 2.412 GHz Trig Free | | Center Freq 2.41200000 GHz | |
| Channel Power | | Start Freq 2.39817000 GHz | |
| | | Stop Freq 2.42583000 GHz | |
| Center 2.412 GHz Span 27.66 MHz | | CF Step 2.76600000 MHz Auto Man | |
| #Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts) | | Freq Offset 0.00000000 Hz | |
| Channel Power Power Spectral Density | | Signal Track On Off | |
| 8.00 dBm / 20.0000 MHz -65.01 dBm/Hz | | | |

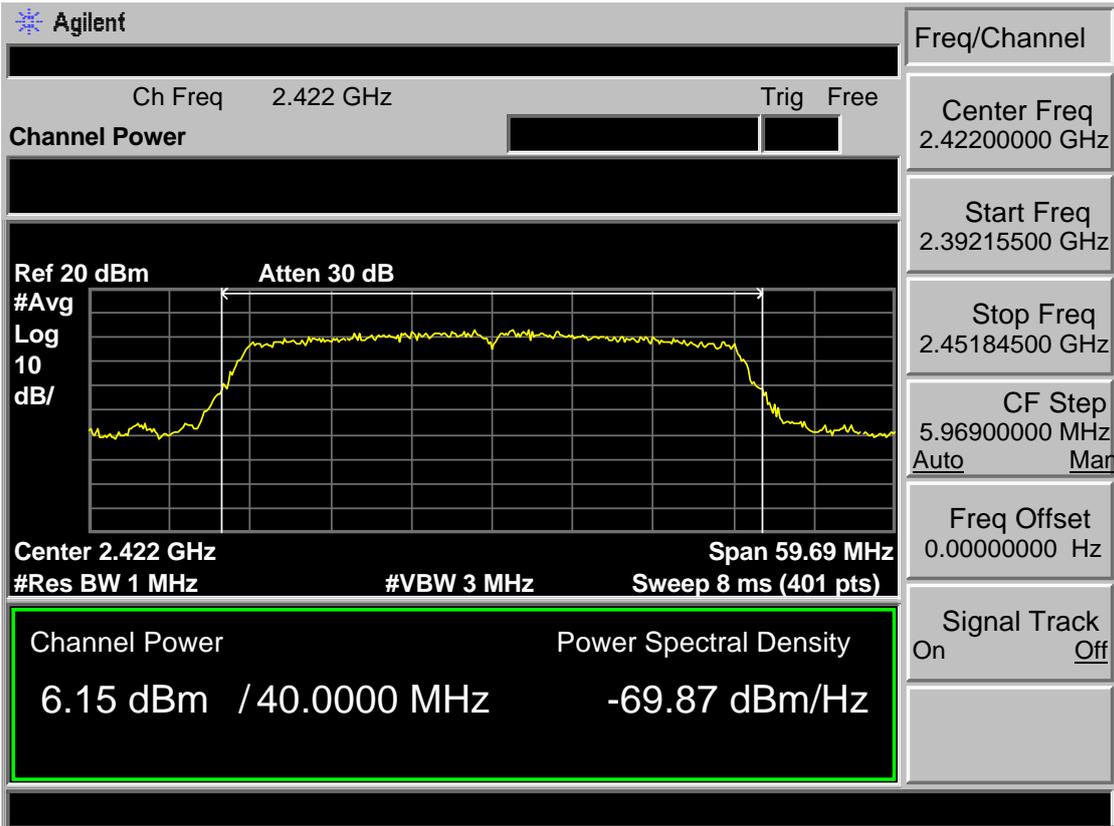
Test Mode: IEEE 802.11n HT20 2437MHz

| | | | |
|---|--|------------------------------------|--|
| | | Freq/Channel | |
| Ch Freq 2.437 GHz Trig Free | | Center Freq 2.43700000 GHz | |
| Channel Power | | Start Freq 2.42301500 GHz | |
| | | Stop Freq 2.45098500 GHz | |
| Center 2.437 GHz Span 27.97 MHz | | CF Step 2.79700000 MHz Auto Man | |
| #Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts) | | Freq Offset 0.00000000 Hz | |
| Channel Power Power Spectral Density | | Signal Track On Off | |
| 6.40 dBm / 20.0000 MHz -66.61 dBm/Hz | | | |

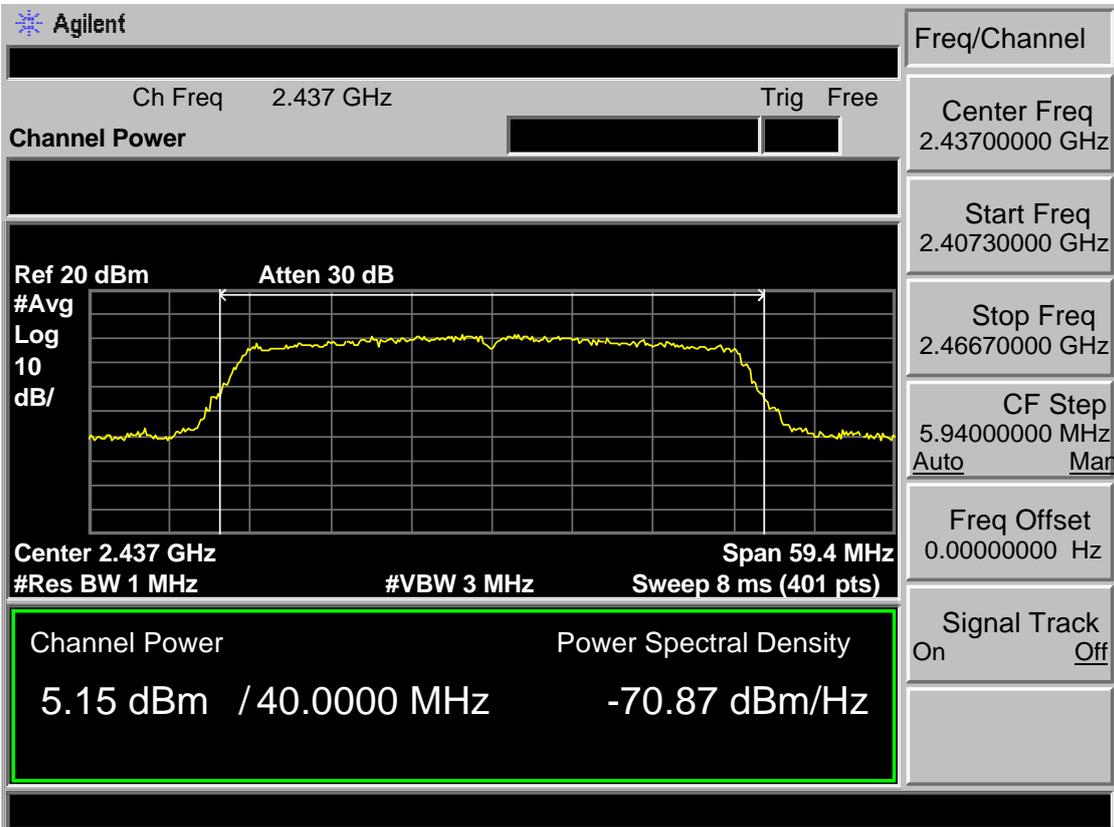
Test Mode: IEEE 802.11n HT20 2462MHz



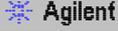
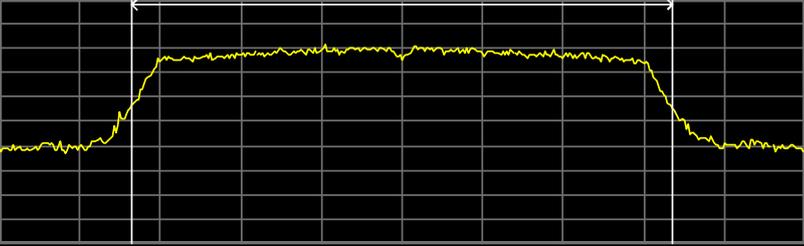
Test Mode: IEEE 802.11n HT40 2422MHz



Test Mode: IEEE 802.11n HT40 2437MHz

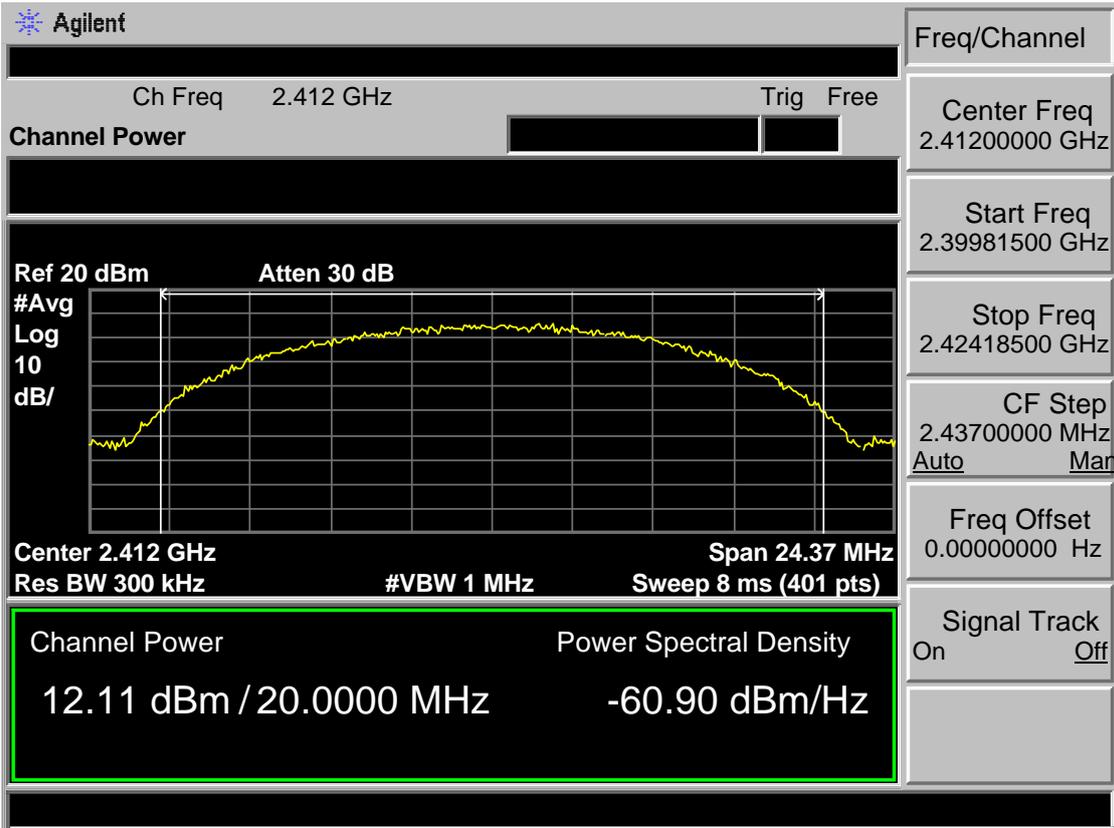


Test Mode: IEEE 802.11n HT40 2452MHz

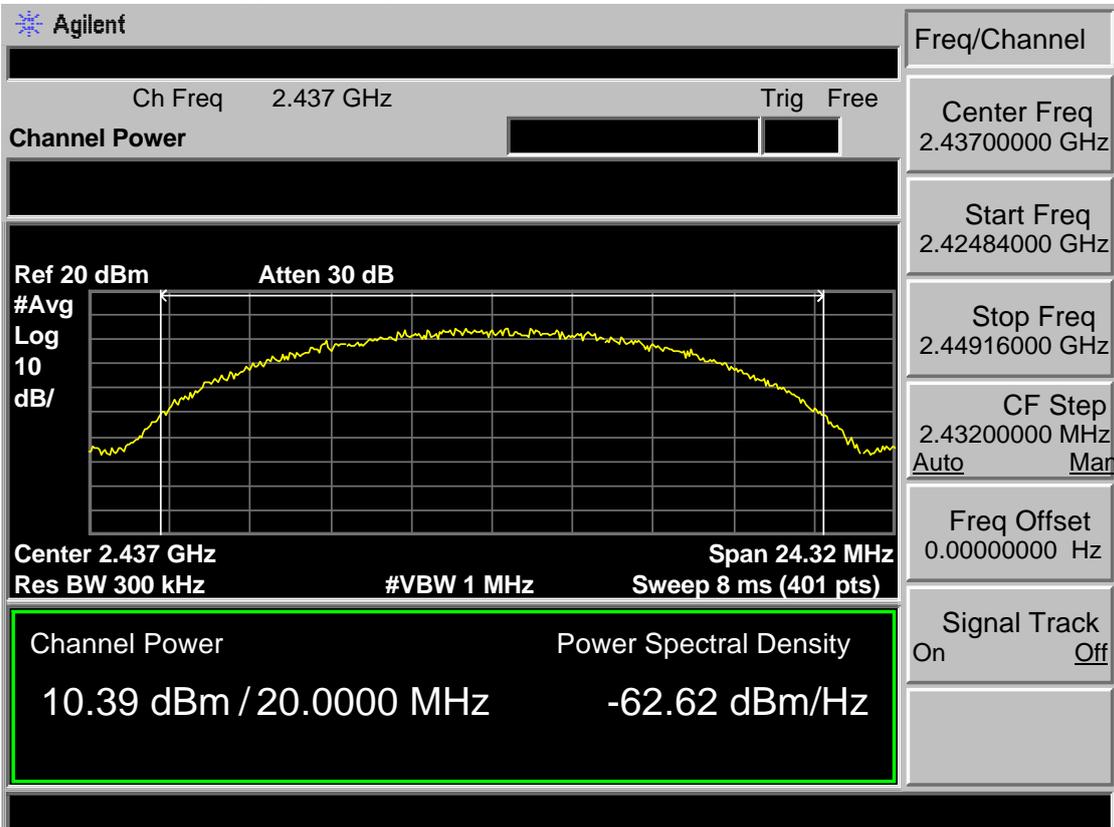
| | | | |
|--|--|---|--|
|  | | Freq/Channel | |
| Ch Freq 2.452 GHz | | Trig Free | |
| Channel Power | | Center Freq 2.45200000 GHz | |
| Ref 20 dBm #Avg 10 Log dB/ | | Start Freq 2.42212500 GHz | |
|  | | Stop Freq 2.48187500 GHz | |
| Center 2.452 GHz | | CF Step 5.97500000 MHz Auto Man | |
| #Res BW 1 MHz | | Freq Offset 0.00000000 Hz | |
| #VBW 3 MHz | | Signal Track On Off | |
| Sweep 8 ms (401 pts) | | Channel Power 5.08 dBm / 40.0000 MHz | |
| Power Spectral Density -70.94 dBm/Hz | | Span 59.75 MHz | |

Antenna 1

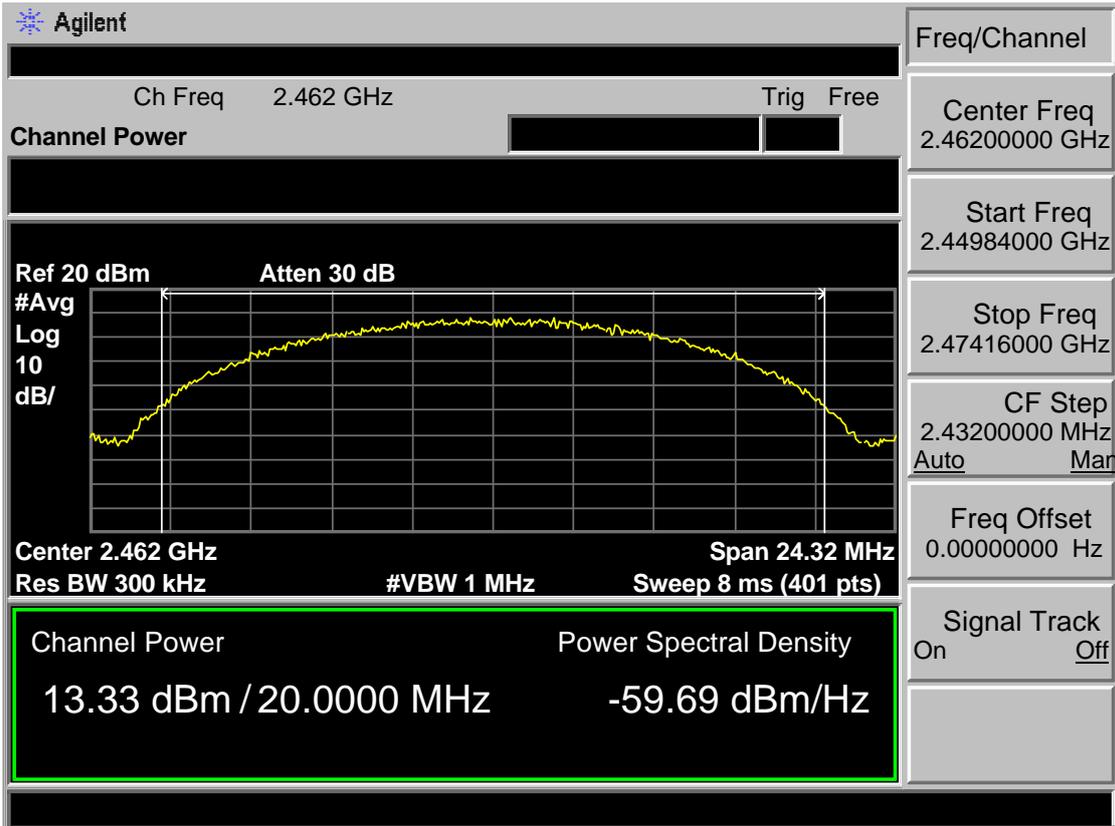
Test Mode: IEEE 802.11b 2412MHz



Test Mode: IEEE 802.11b 2437MHz



Test Mode: IEEE 802.11b 2462MHz



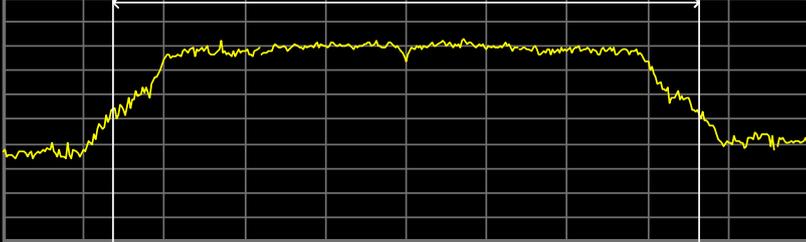
Test Mode: IEEE 802.11g 2412MHz

| | | | |
|--|--|--------------------------------------|--|
| | | Freq/Channel | |
| Ch Freq 2.412 GHz Trig Free | | Center Freq 2.41200000 GHz | |
| Channel Power | | Start Freq 2.39814500 GHz | |
| | | Stop Freq 2.42585500 GHz | |
| Ref 20 dBm Atten 30 dB | | CF Step 2.77100000 MHz Auto Man | |
| #Avg Log 10 dB/ | | Freq Offset 0.00000000 Hz | |
| Center 2.412 GHz Span 27.71 MHz | | Signal Track On Off | |
| Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts) | | | |
| Channel Power 8.35 dBm / 20.0000 MHz | | Power Spectral Density -64.66 dBm/Hz | |

Test Mode: IEEE 802.11g 2437MHz

| | | | |
|--|--|--------------------------------------|--|
| | | Freq/Channel | |
| Ch Freq 2.437 GHz Trig Free | | Center Freq 2.43700000 GHz | |
| Channel Power | | Start Freq 2.42310500 GHz | |
| | | Stop Freq 2.45089500 GHz | |
| Ref 20 dBm Atten 30 dB | | CF Step 2.77900000 MHz Auto Man | |
| #Avg Log 10 dB/ | | Freq Offset 0.00000000 Hz | |
| Center 2.437 GHz Span 27.79 MHz | | Signal Track On Off | |
| Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts) | | | |
| Channel Power 6.47 dBm / 20.0000 MHz | | Power Spectral Density -66.54 dBm/Hz | |

Test Mode: IEEE 802.11g 2462MHz

| | | | |
|--|--|--|--|
|  | | Freq/Channel | |
| Ch Freq 2.462 GHz | | Trig Free | |
| Channel Power | | Center Freq 2.46200000 GHz | |
| Ref 20 dBm Atten 30 dB | | Start Freq 2.44819000 GHz | |
| #Avg Log 10 dB/ | | Stop Freq 2.47581000 GHz | |
|  | | CF Step 2.76200000 MHz Auto Man | |
| Center 2.462 GHz | | Span 27.62 MHz | |
| Res BW 300 kHz | | #VBW 1 MHz Sweep 8 ms (401 pts) | |
| Channel Power | | Power Spectral Density | |
| 9.58 dBm / 20.0000 MHz | | -63.43 dBm/Hz | |
| | | Signal Track On Off | |

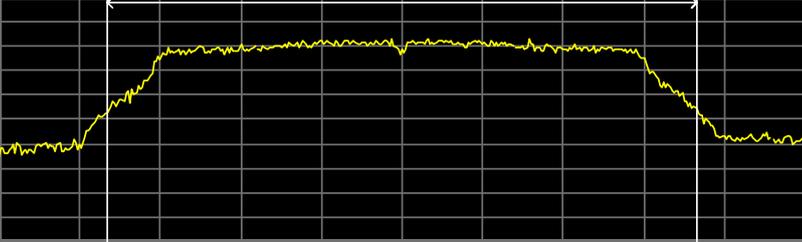
Test Mode: IEEE 802.11n HT20 2412MHz

| | | | |
|--|--|------------------------------------|--|
| | | Freq/Channel | |
| Ch Freq 2.412 GHz Trig Free | | Center Freq 2.41200000 GHz | |
| Channel Power | | Start Freq 2.39817500 GHz | |
| | | Stop Freq 2.42582500 GHz | |
| Center 2.412 GHz Span 27.65 MHz | | CF Step 2.76500000 MHz Auto Man | |
| Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts) | | Freq Offset 0.00000000 Hz | |
| Channel Power 8.28 dBm / 20.0000 MHz | | Signal Track On Off | |
| Power Spectral Density -64.73 dBm/Hz | | | |

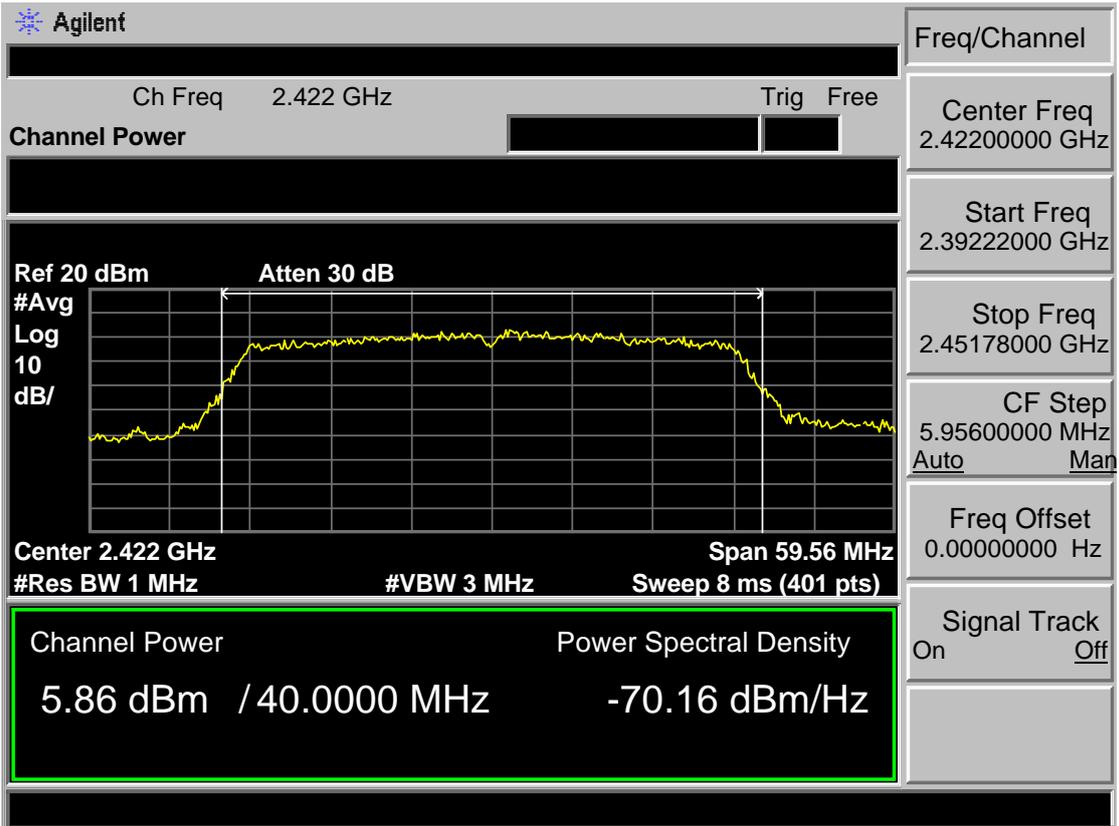
Test Mode: IEEE 802.11n HT20 2437MHz

| | | | |
|--|--|------------------------------------|--|
| | | Freq/Channel | |
| Ch Freq 2.437 GHz Trig Free | | Center Freq 2.43700000 GHz | |
| Channel Power | | Start Freq 2.42317000 GHz | |
| | | Stop Freq 2.45083000 GHz | |
| Center 2.437 GHz Span 27.66 MHz | | CF Step 2.76600000 MHz Auto Man | |
| Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts) | | Freq Offset 0.00000000 Hz | |
| Channel Power 6.43 dBm / 20.0000 MHz | | Signal Track On Off | |
| Power Spectral Density -66.58 dBm/Hz | | | |

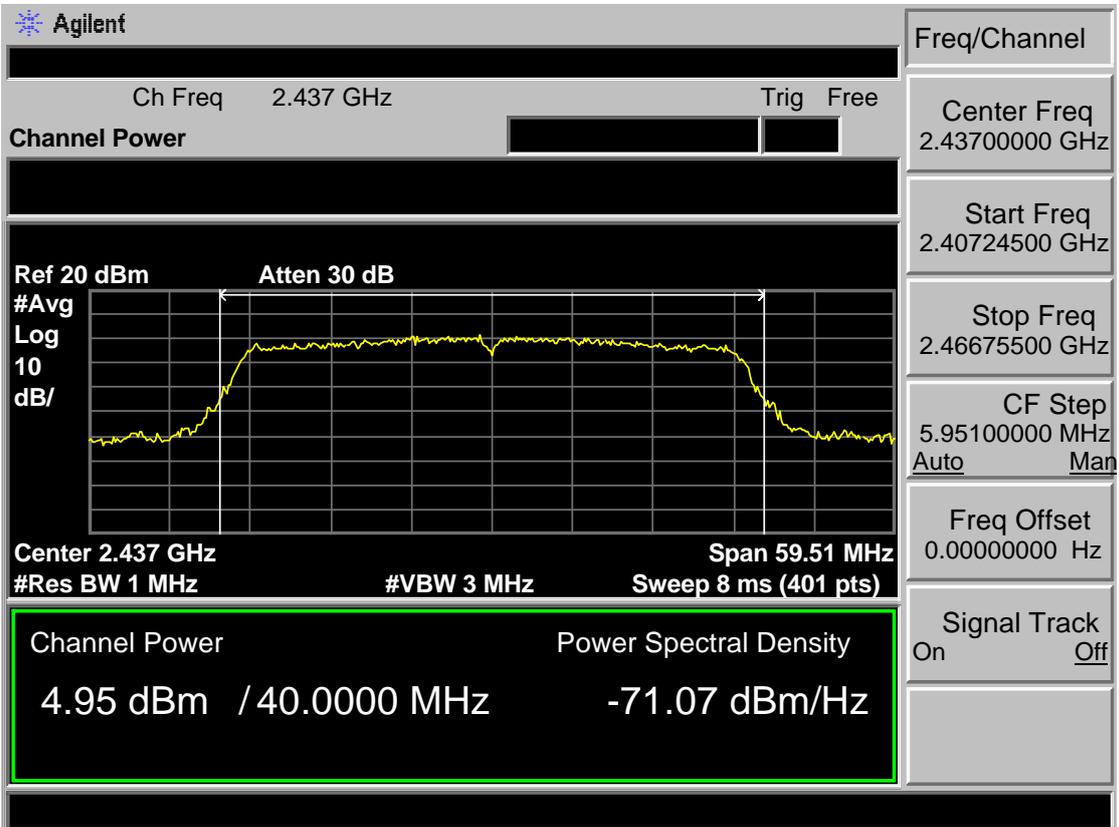
Test Mode: IEEE 802.11n HT20 2462MHz

| | | | |
|--|--|--|--|
|  | | Freq/Channel | |
| Ch Freq 2.462 GHz | | Trig Free | |
| Channel Power | | Center Freq 2.46200000 GHz | |
| Ref 20 dBm Atten 30 dB | | Start Freq 2.44828000 GHz | |
|  | | Stop Freq 2.47572000 GHz | |
| #Avg 10 Log dB/ | | CF Step 2.74400000 MHz Auto Man | |
| Center 2.462 GHz | | Span 27.44 MHz | |
| Res BW 300 kHz | | #VBW 3 MHz Sweep 8 ms (401 pts) | |
| Channel Power | | Power Spectral Density | |
| 9.54 dBm / 20.0000 MHz | | -63.47 dBm/Hz | |
| | | Signal Track On Off | |

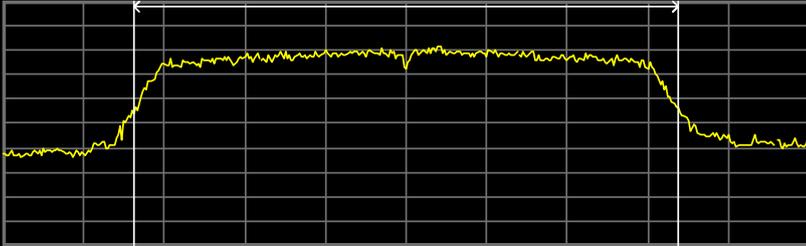
Test Mode: IEEE 802.11n HT40 2422MHz



Test Mode: IEEE 802.11n HT40 2437MHz



Test Mode: IEEE 802.11n HT40 2452MHz

| | | | |
|--|--|--------------------------------------|--|
|  | | Freq/Channel | |
| Ch Freq 2.452 GHz Trig Free | | Center Freq 2.45200000 GHz | |
| Channel Power | | Start Freq 2.42226500 GHz | |
| Ref 20 dBm Atten 30 dB | | Stop Freq 2.48173500 GHz | |
| #Avg Log 10 dB/ | | CF Step 5.94700000 MHz Auto Man | |
|  | | Freq Offset 0.00000000 Hz | |
| Center 2.452 GHz Span 59.47 MHz | | Signal Track On Off | |
| #Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts) | | Channel Power Power Spectral Density | |
| 4.51 dBm / 40.0000 MHz | | -71.51 dBm/Hz | |

8 POWER SPECTRAL DENSITY TEST

8.1 Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

8.2 Test Procedure

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.

- 2, Follow the test procedure as described in KDB 558074
 - (1). Set analyzer center frequency to DTS channel center frequency.
 - (2). Set the span to 1.5 times the DTS bandwidth.
 - (3). Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
 - (4). Set the VBW $\geq 3 \text{ RBW}$.
 - (5). Detector = peak.
 - (6). Sweep time = auto couple.
 - (7). Trace mode = max hold.
 - (8). Allow trace to fully stabilize.
 - (9). Use the peak marker function to determine the maximum amplitude level.
 - (10). If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

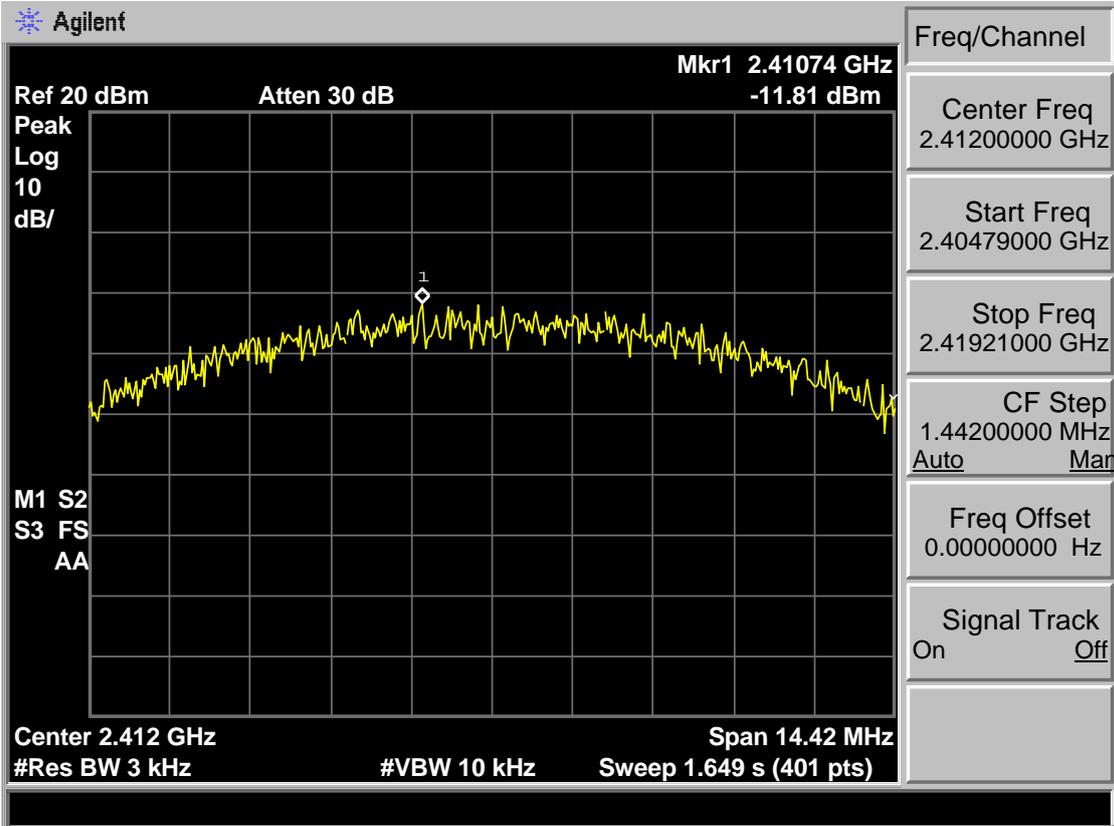
8.3 Test Result

| EUT: LED TV | | | | | |
|------------------------|------|-------------------------------|--------|--------|---------------------|
| M/N: SC-40FK700N | | | | | |
| Test date: 2017-06-27 | | Test site: RF Site | | | Tested by: Viking |
| Pass | | | | | |
| Test Mode | CH | Power density (dBm/3kHz) | | | Limit (dBm/3kHz) |
| | | Ant 0 | Ant 1 | Total | |
| IEEE 802.11 b | CH1 | -11.81 | -9.84 | / | 8 |
| | CH6 | -12.19 | -11.02 | / | 8 |
| | CH11 | -8.735 | -8.62 | / | 8 |
| IEEE 802.11 g | CH1 | -15.72 | -15.59 | / | 8 |
| | CH6 | -16.45 | -16.63 | / | 8 |
| | CH11 | -13.85 | -13.44 | / | 8 |
| IEEE 802.11 n HT 20 | CH1 | -15.15 | -15.62 | -12.37 | 8 |
| | CH6 | -16.34 | -17.59 | -13.91 | 8 |
| | CH11 | -13.61 | -13.82 | -10.70 | 8 |
| IEEE 802.11 n HT 40 | CH3 | -19.04 | -17.28 | -15.06 | 8 |
| | CH6 | -19.35 | -19.87 | -16.59 | 8 |
| | CH9 | -20.42 | -19.03 | -16.66 | 8 |
| Conclusion : PASS | | | | | |

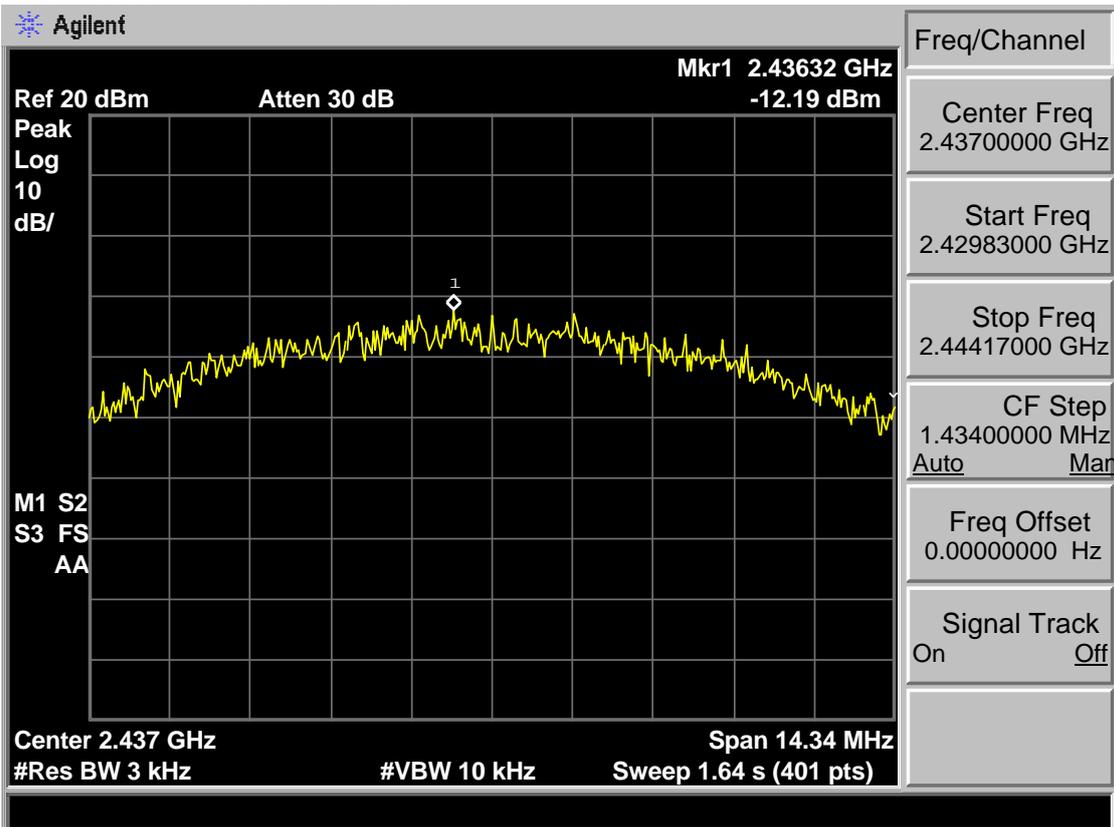
8.4 Test Data

Antenna 0

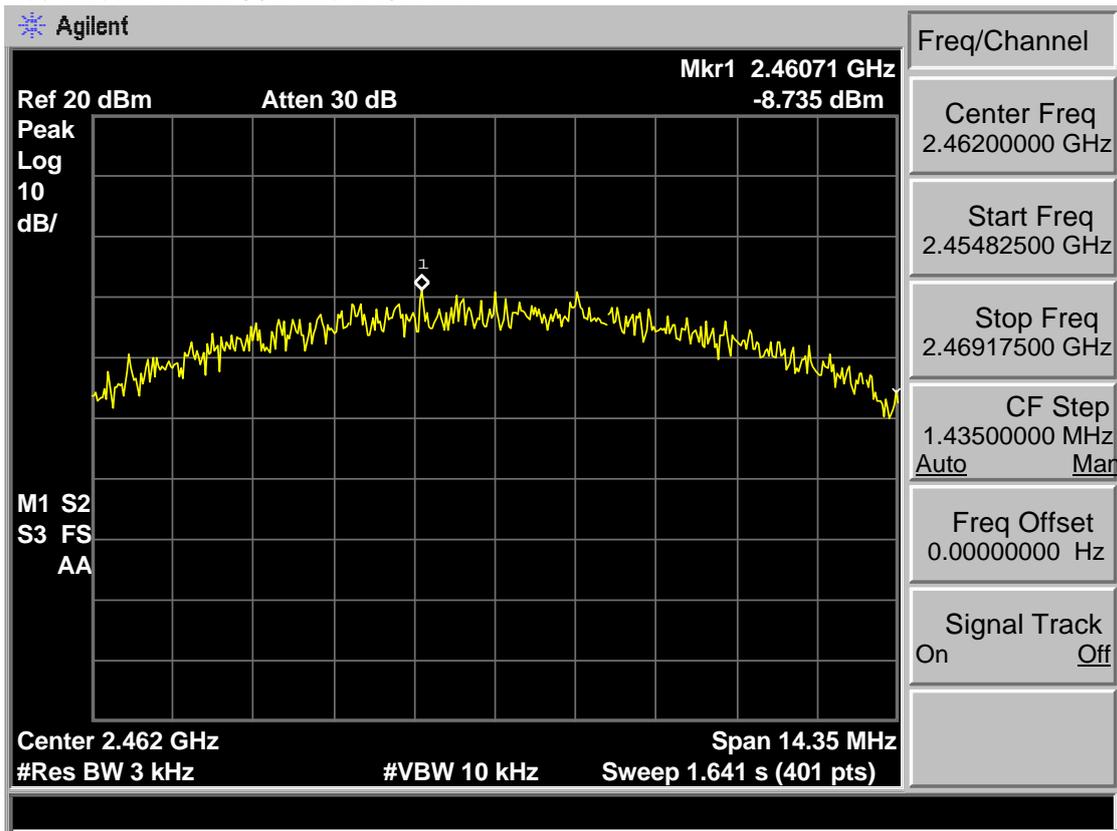
Test Mode: IEEE 802.11b 2412MHz



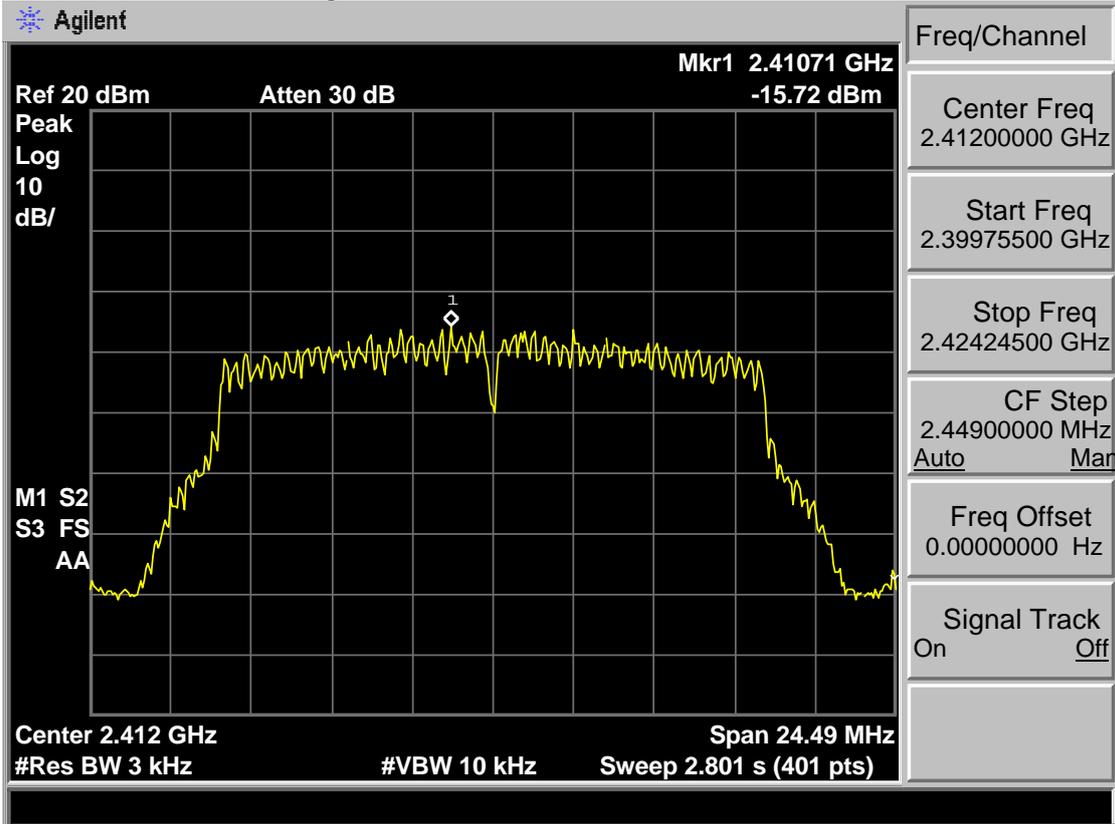
Test Mode: IEEE 802.11b 2437MHz



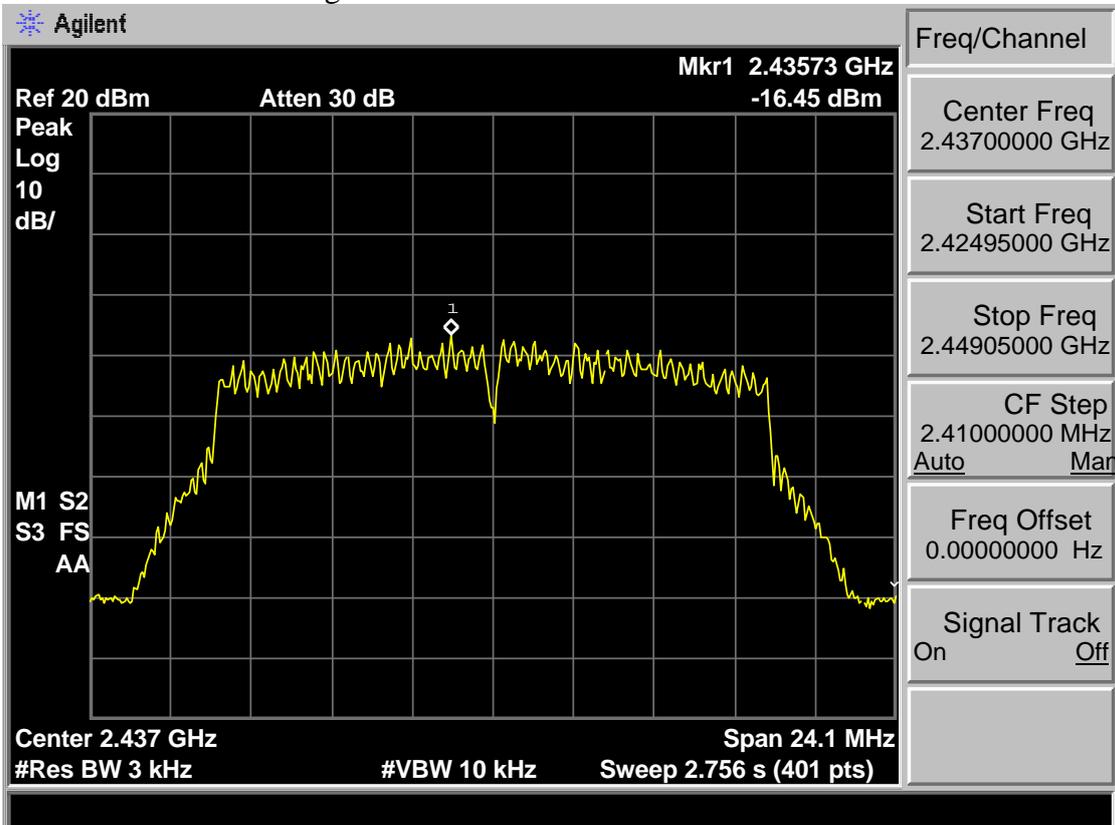
Test Mode: IEEE 802.11b 2462MHz



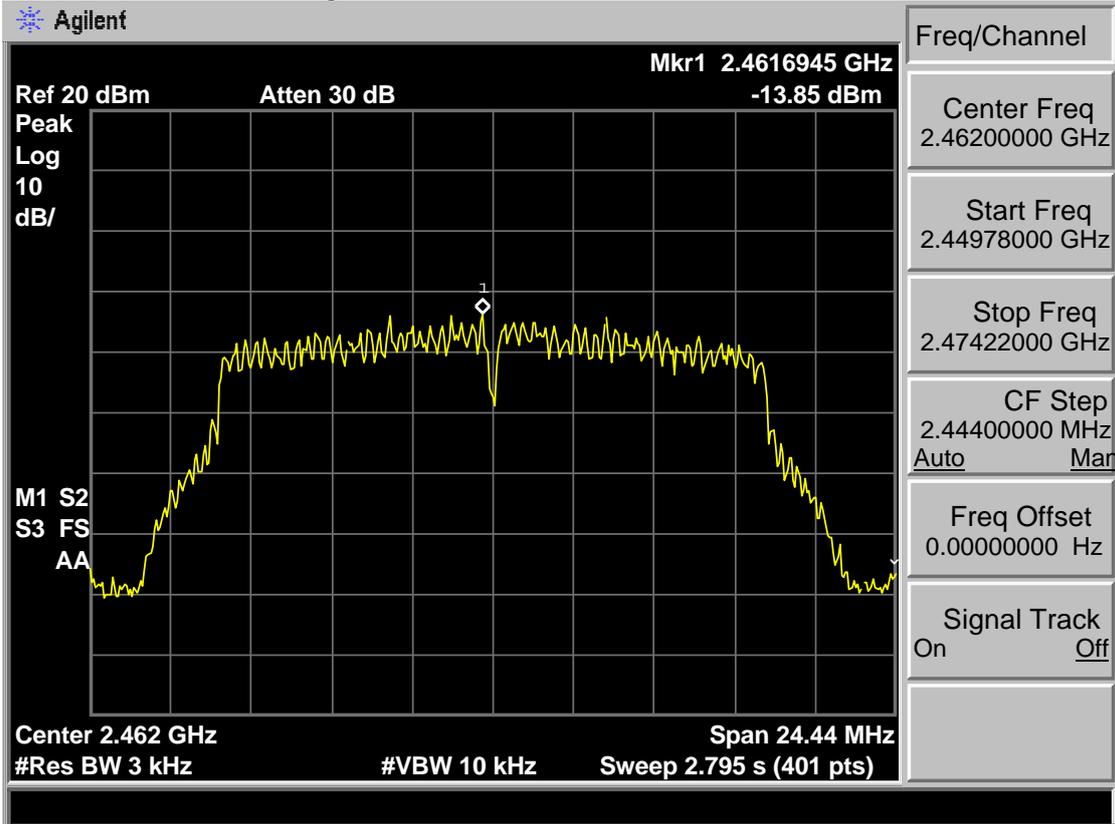
Test Mode: IEEE 802.11g 2412MHz



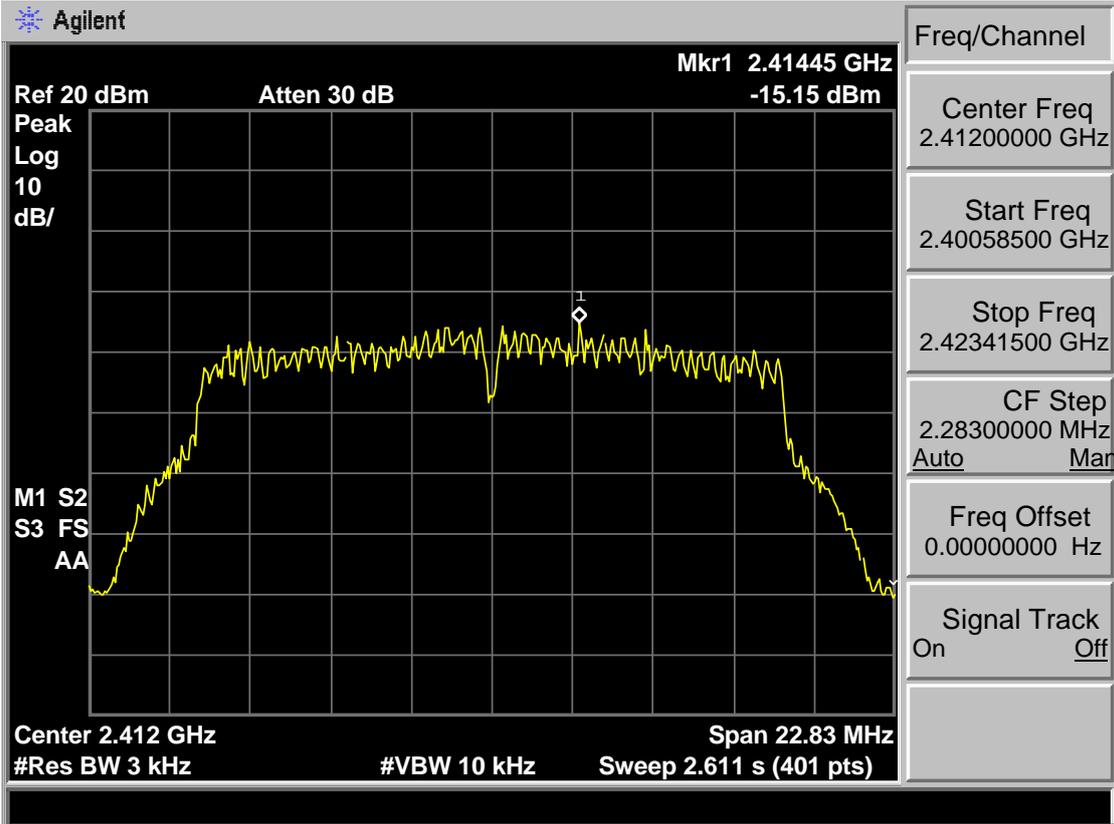
Test Mode: IEEE 802.11g 2437MHz



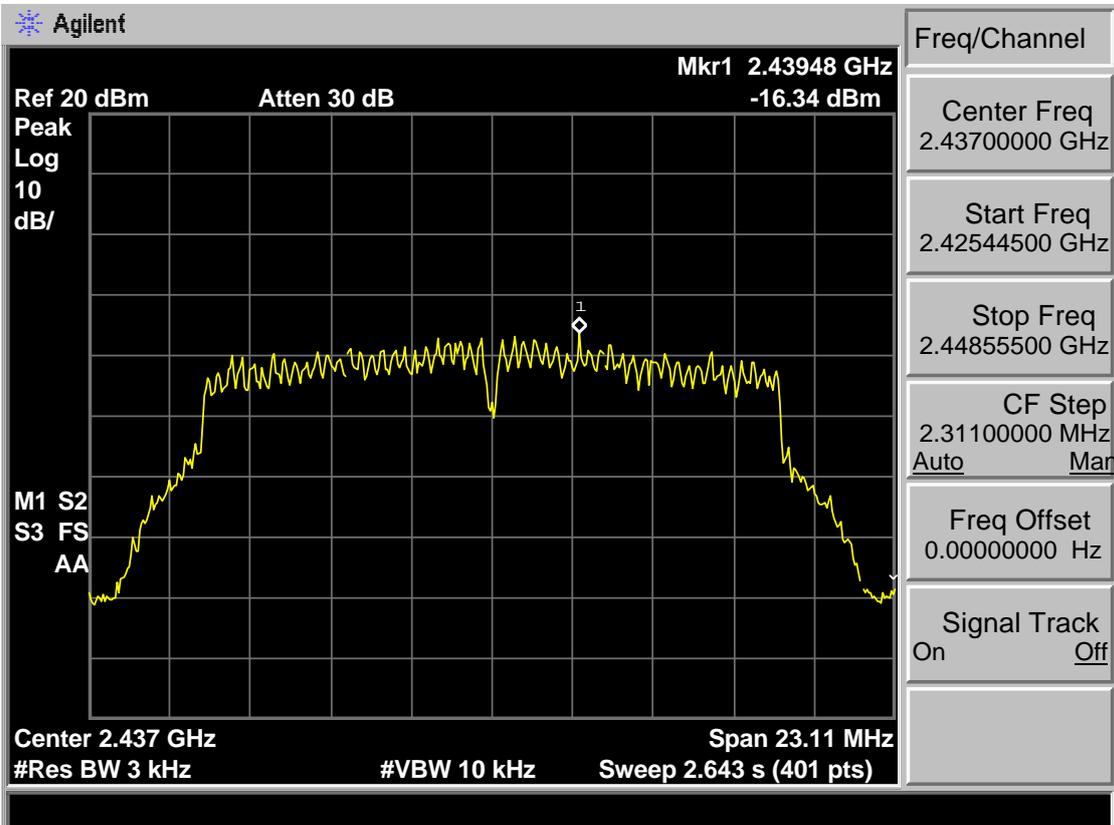
Test Mode: IEEE 802.11g 2462MHz



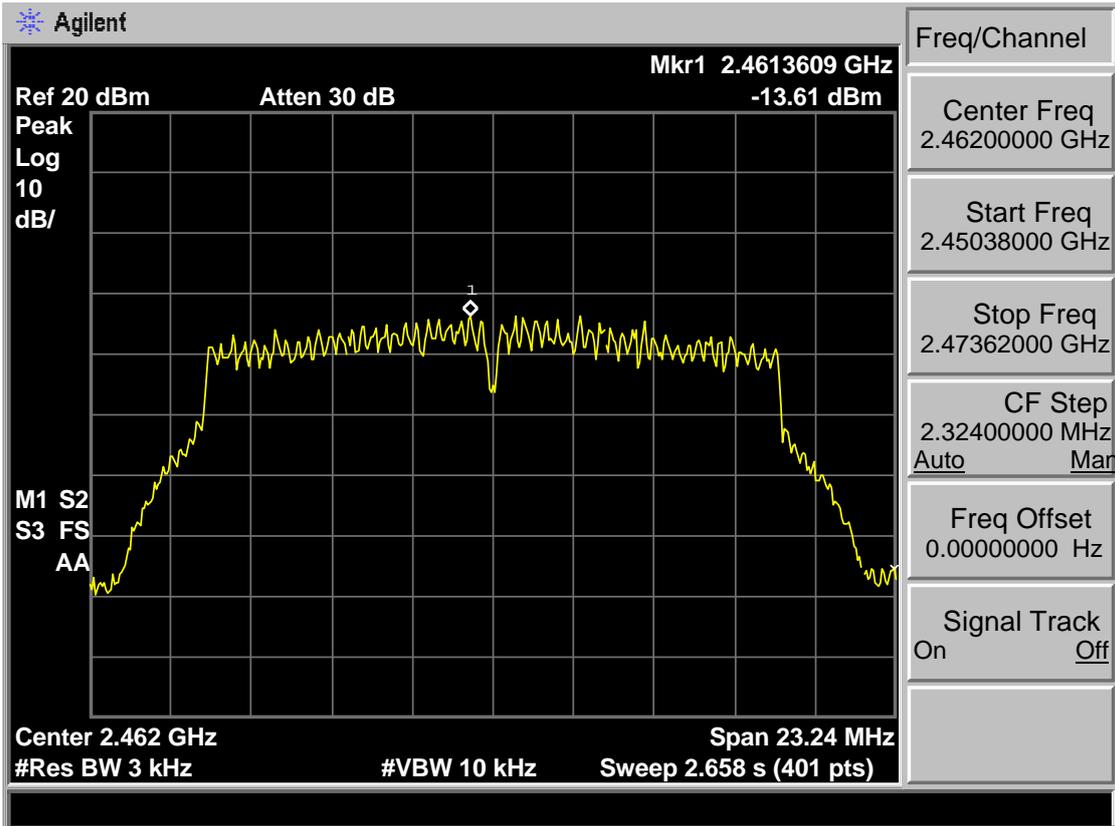
Test Mode: IEEE 802.11n HT20 2412MHz



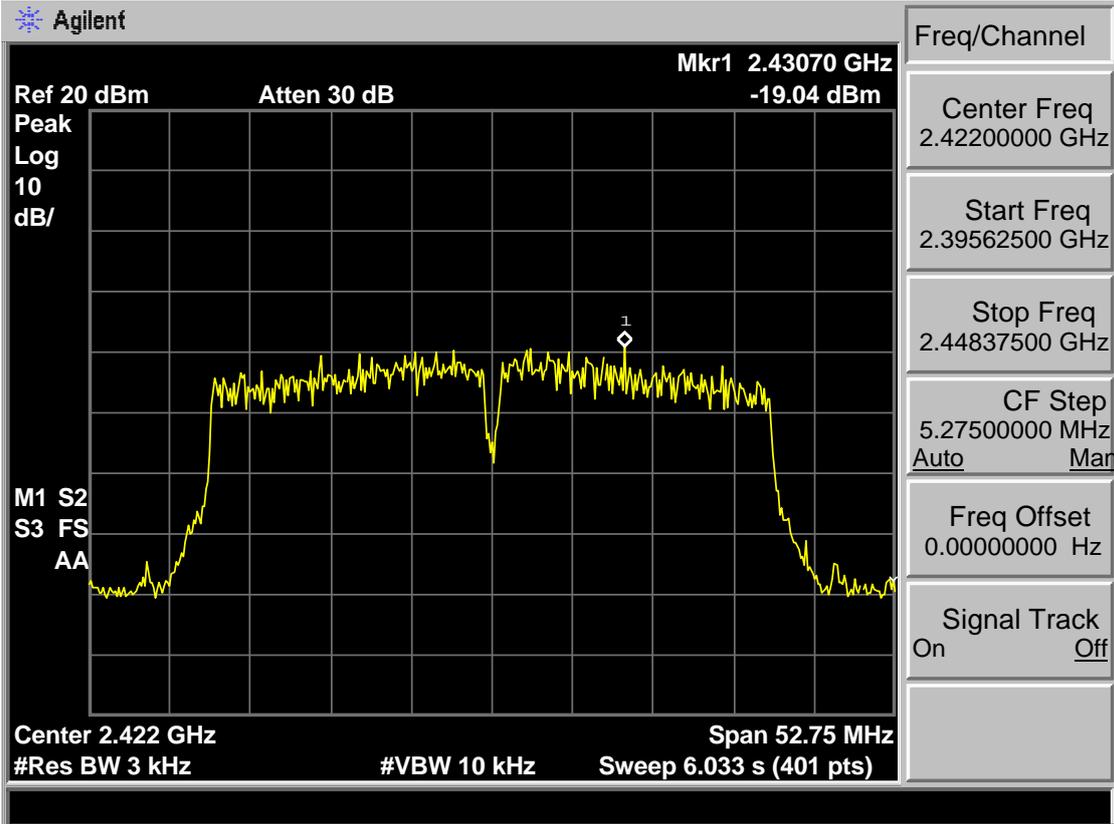
Test Mode: IEEE 802.11n HT20 2437MHz



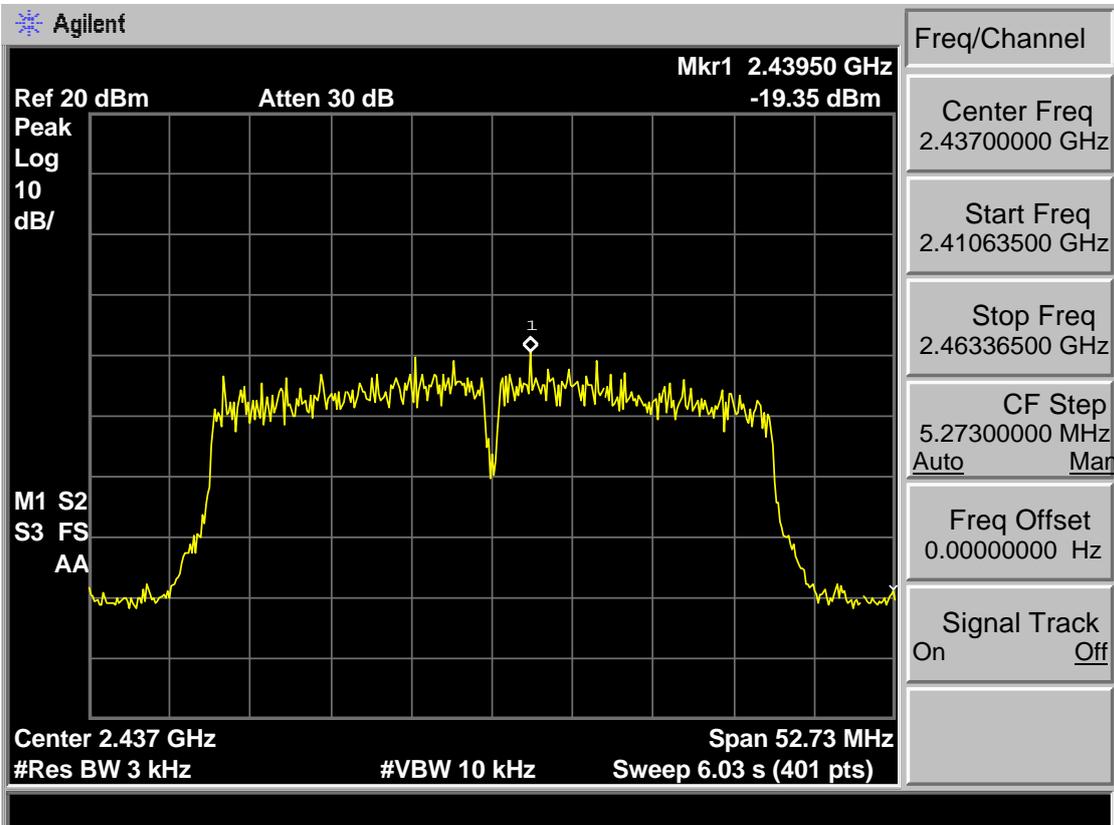
Test Mode: IEEE 802.11n HT20 2462MHz



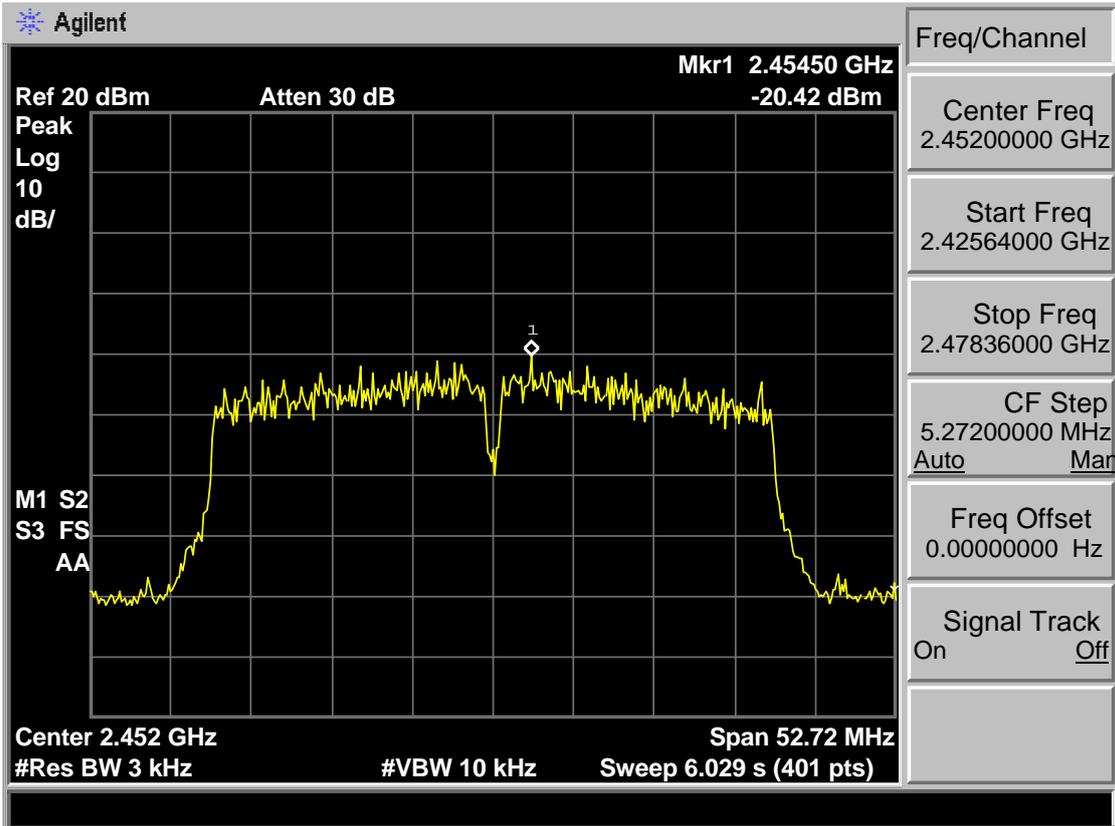
Test Mode: IEEE 802.11n HT40 2422MHz



Test Mode: IEEE 802.11n HT40 2437MHz

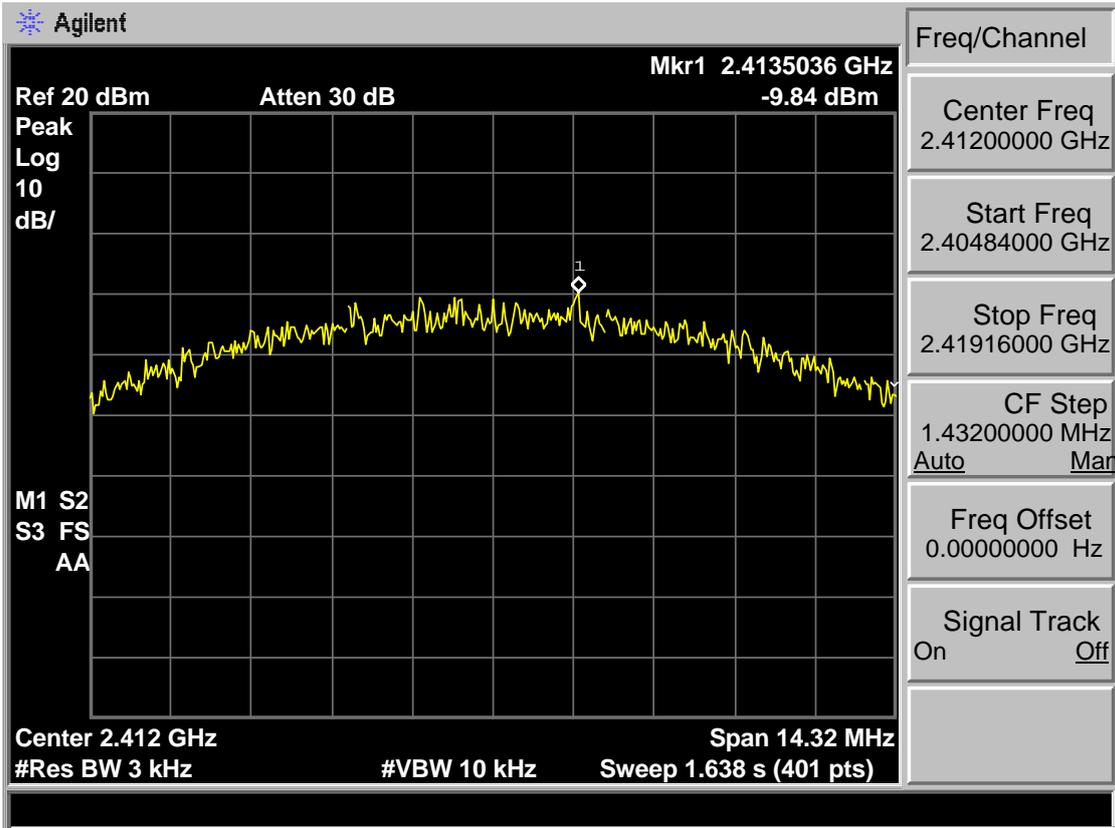


Test Mode: IEEE 802.11n HT40 2452MHz

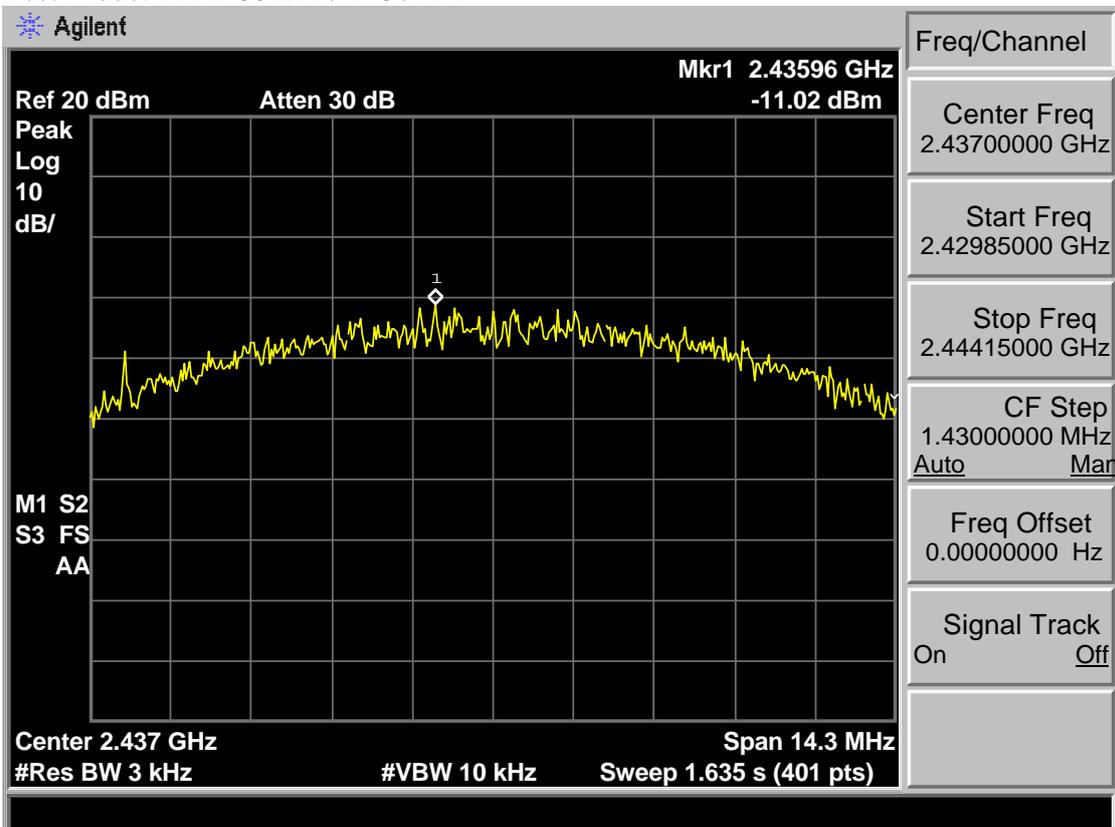


Antenna 1

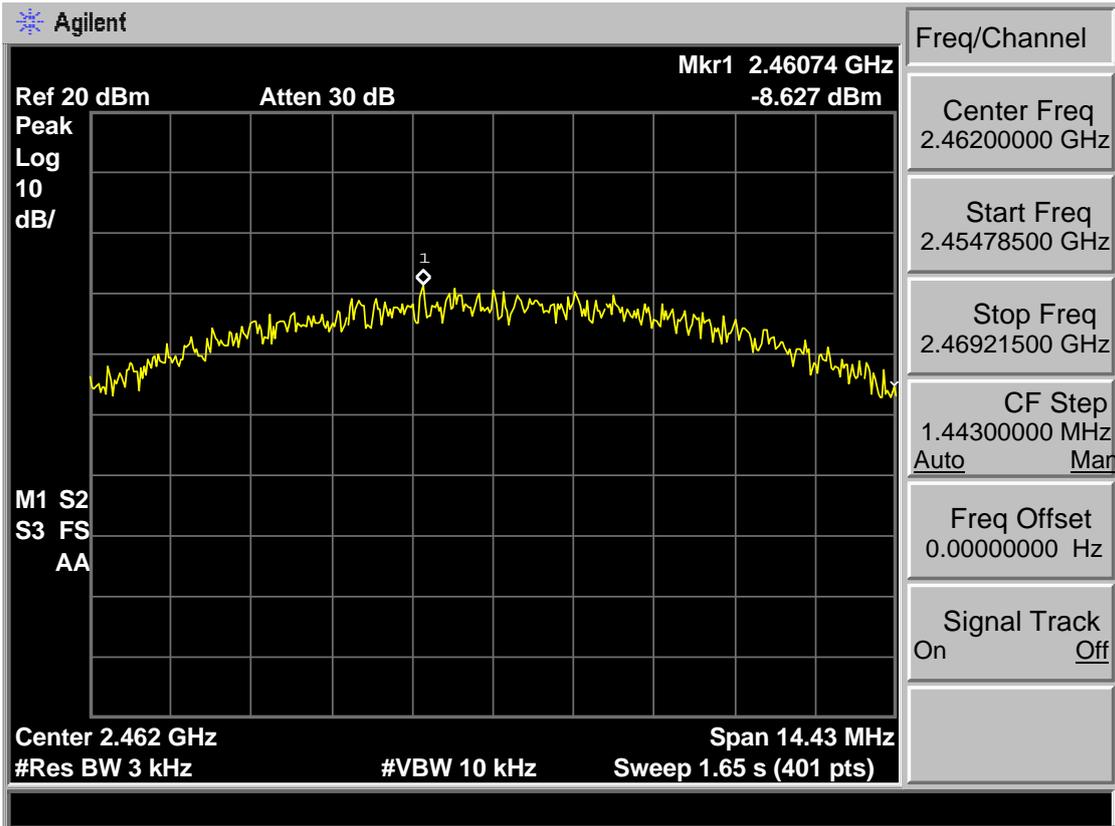
Test Mode: IEEE 802.11b 2412MHz



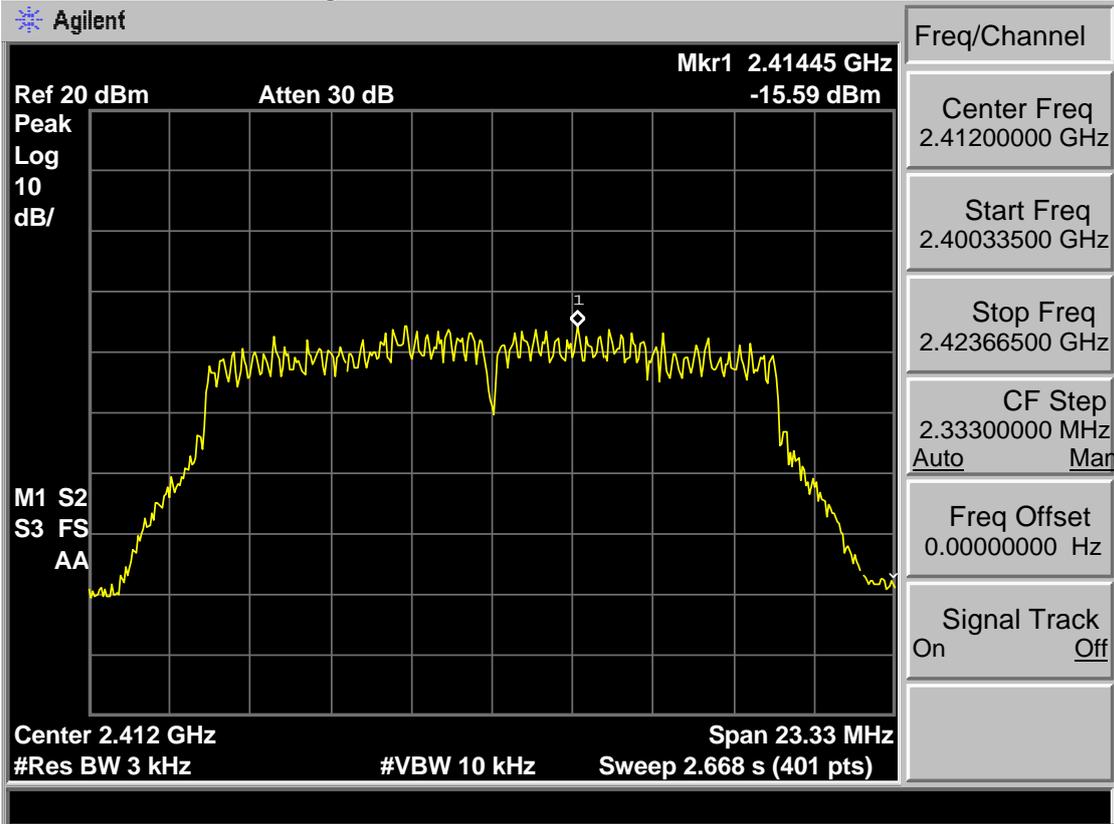
Test Mode: IEEE 802.11b 2437MHz



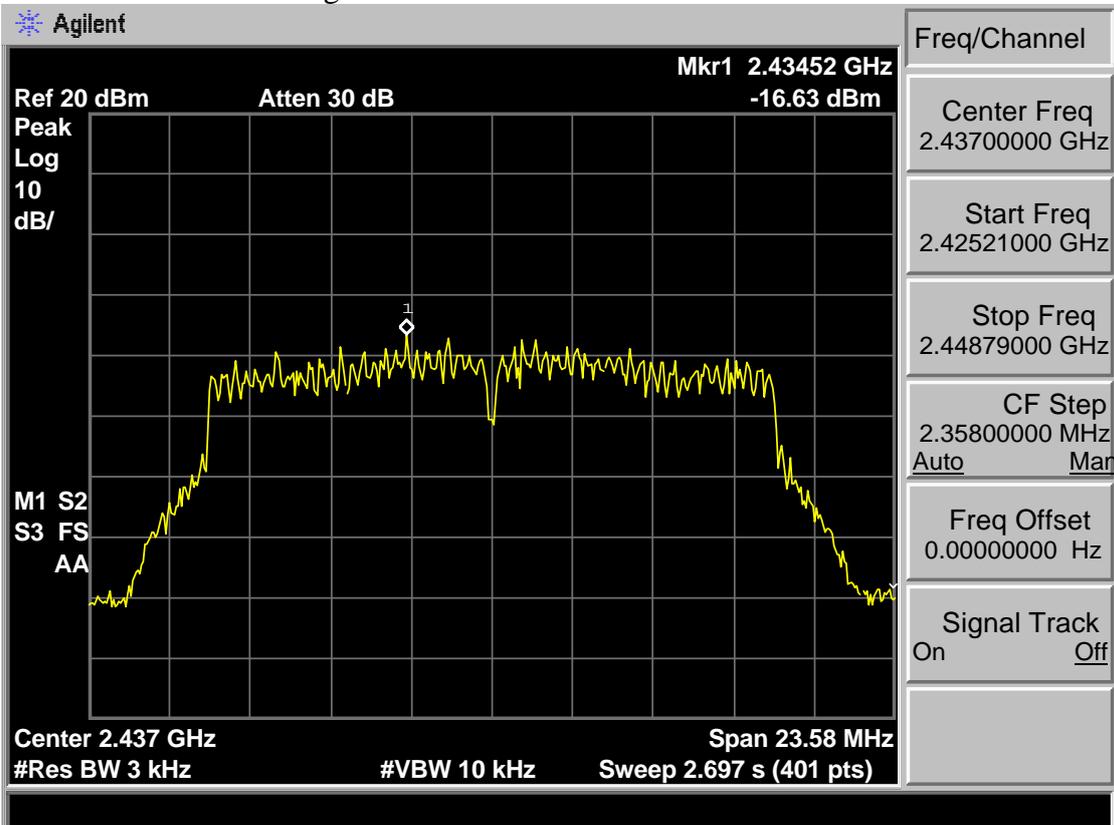
Test Mode: IEEE 802.11b 2462MHz



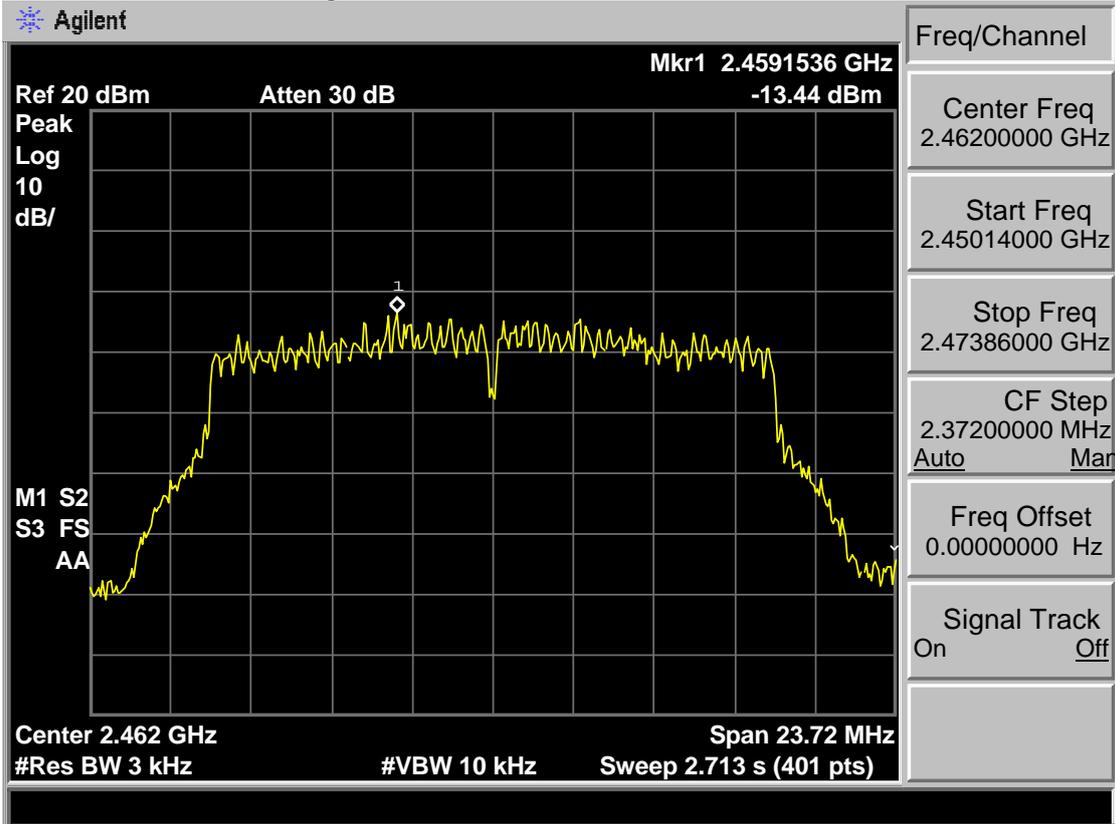
Test Mode: IEEE 802.11g 2412MHz



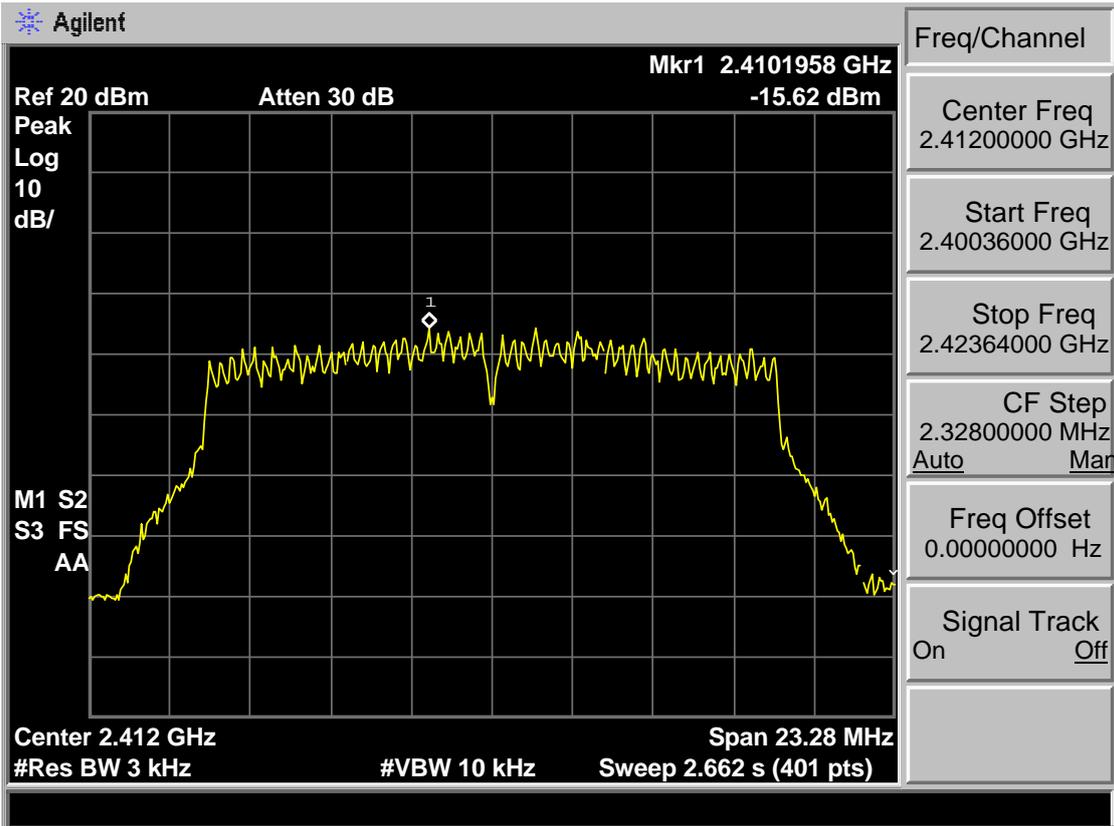
Test Mode: IEEE 802.11g 2437MHz



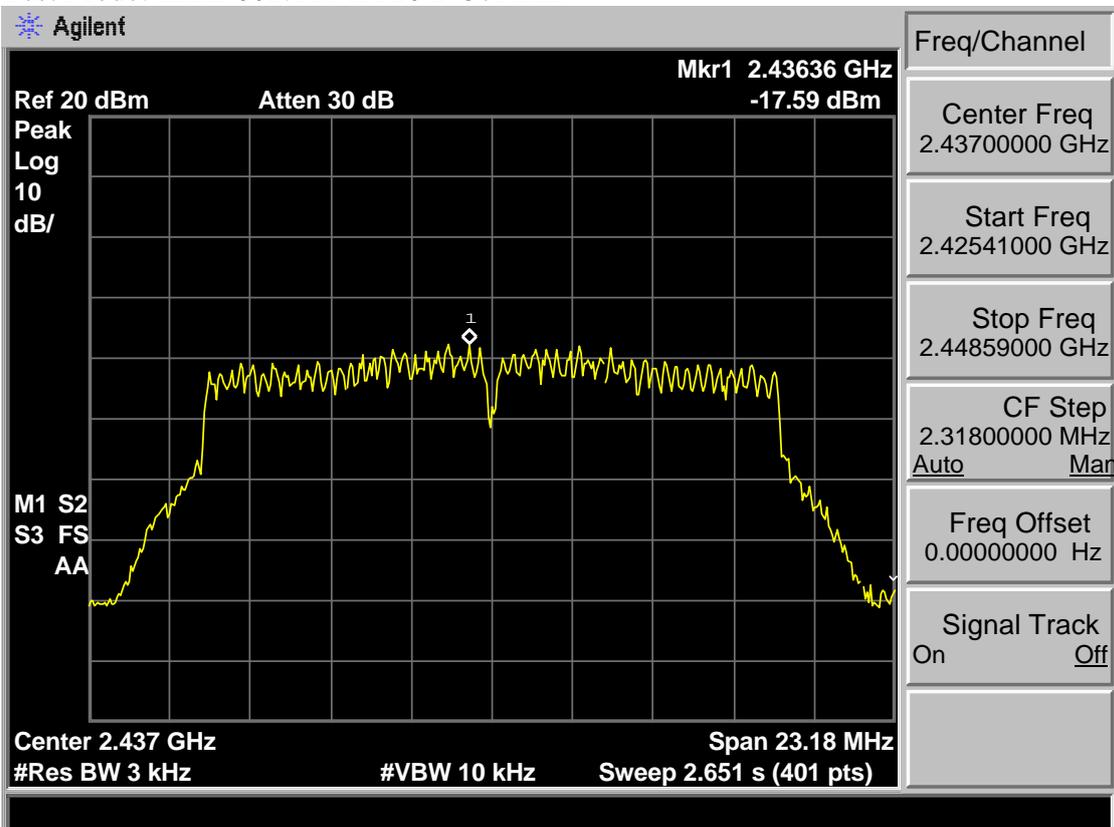
Test Mode: IEEE 802.11g 2462MHz



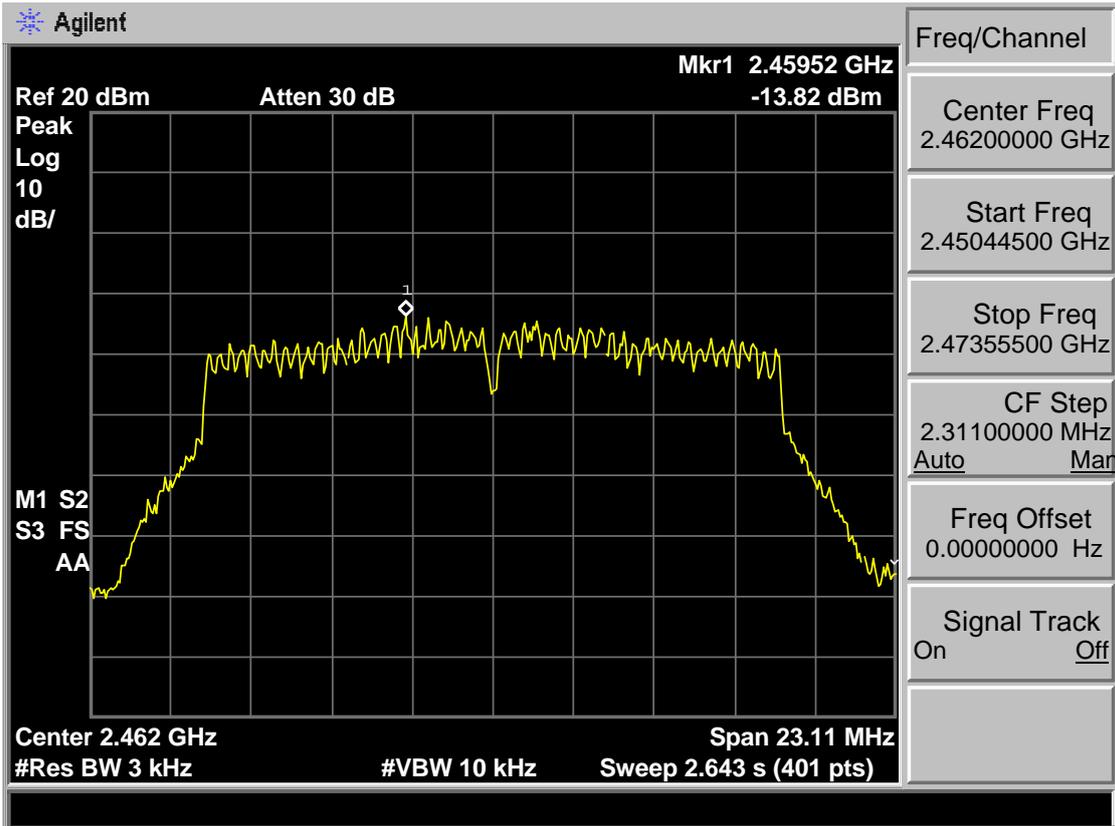
Test Mode: IEEE 802.11n HT20 2412MHz



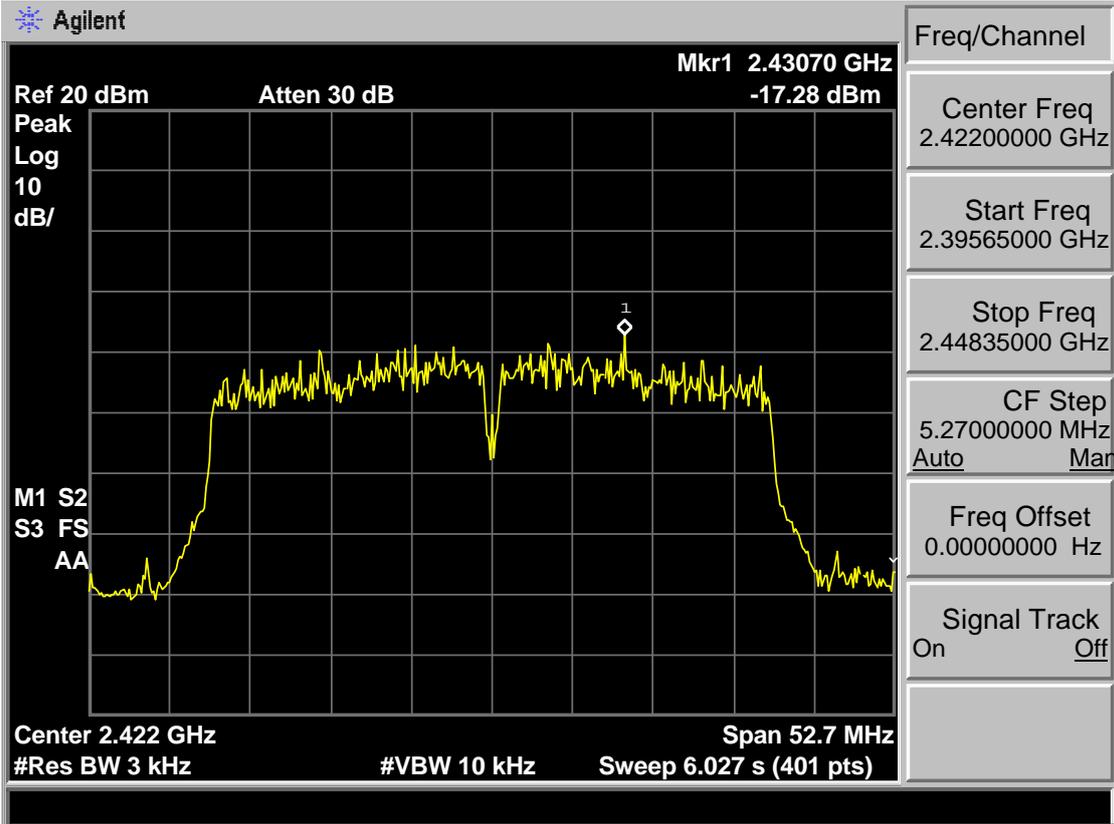
Test Mode: IEEE 802.11n HT20 2437MHz



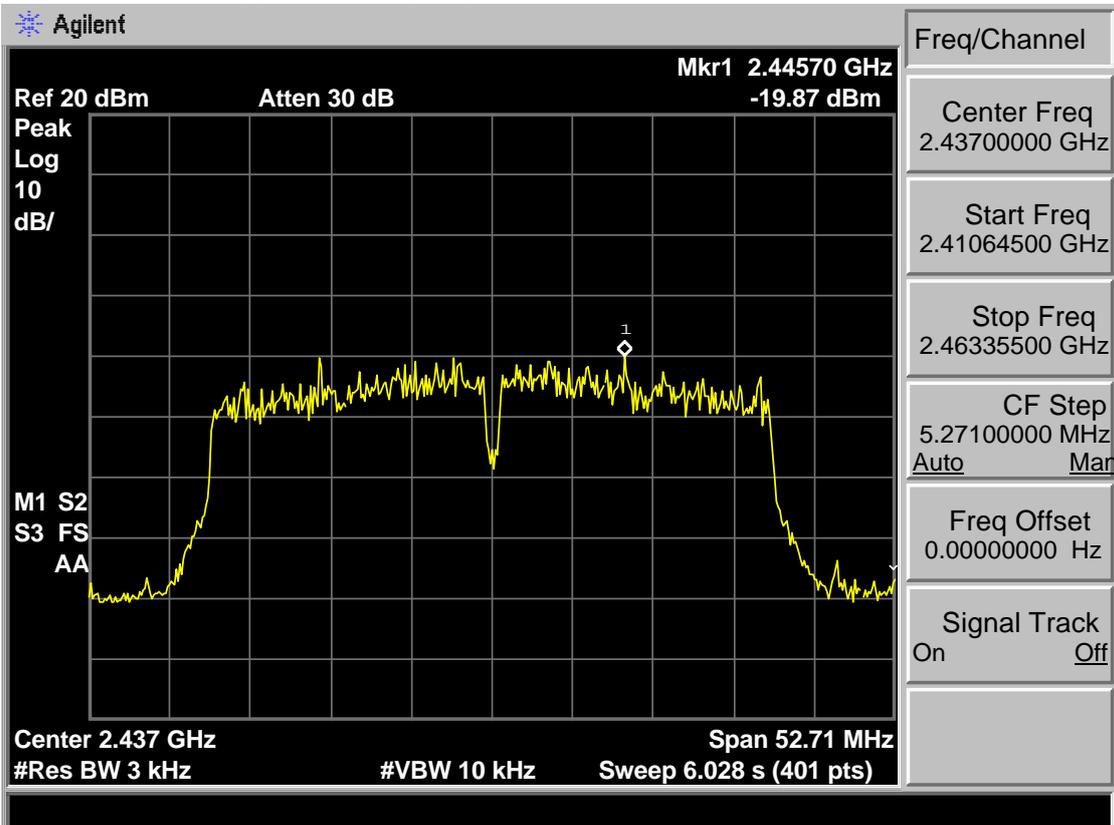
Test Mode: IEEE 802.11n HT20 2462MHz



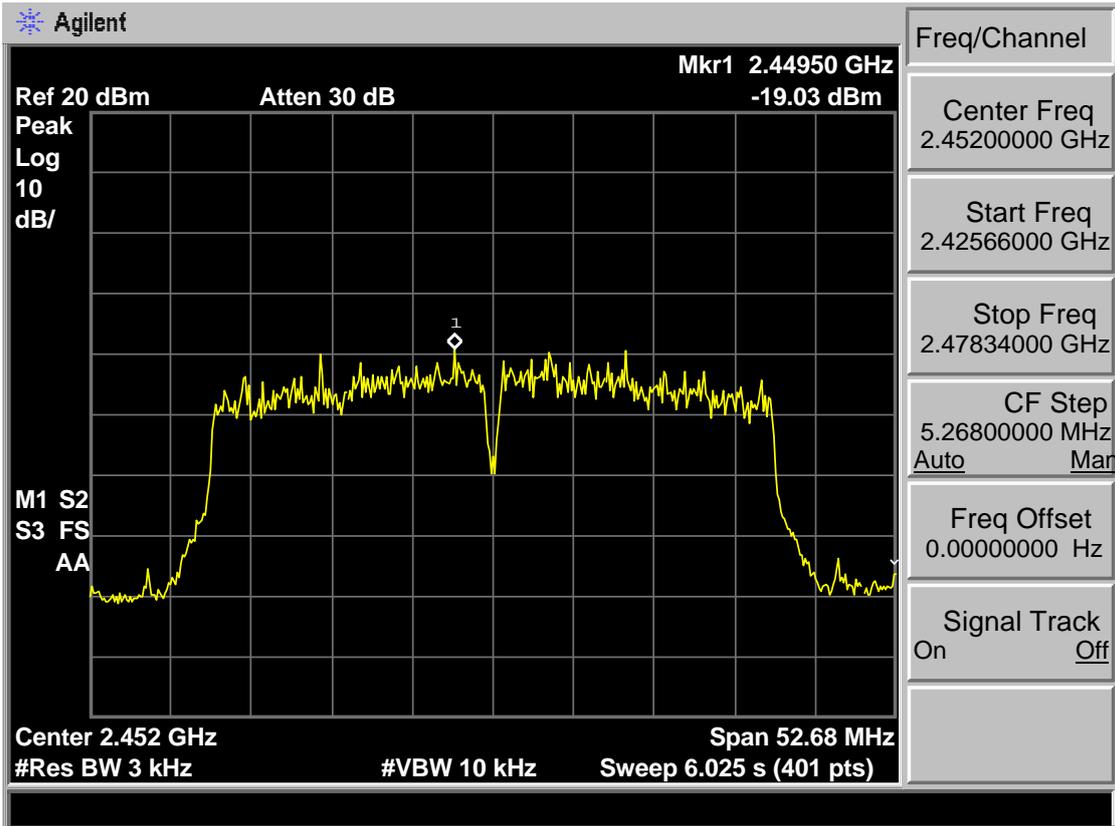
Test Mode: IEEE 802.11n HT40 2422MHz



Test Mode: IEEE 802.11n HT40 2437MHz



Test Mode: IEEE 802.11n HT40 2452MHz



9 ANTENNA REQUIREMENTS

9.1 Limit

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

9.2 Result

The antennas used for this product are Internal antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 2.94 dBi.

10 TEST SETUP PHOTO

Conducted Test



Radiated Test (30-1000 MHz)



Radiated Test (Above 1000 MHz)



11 PHOTOS OF EUT

External Photos
M/N: SC-40FK700N



External Photos
M/N: SC-40FK700N



External Photos
M/N: SC-40FK700N



External Photos
M/N: SC-40FK700N

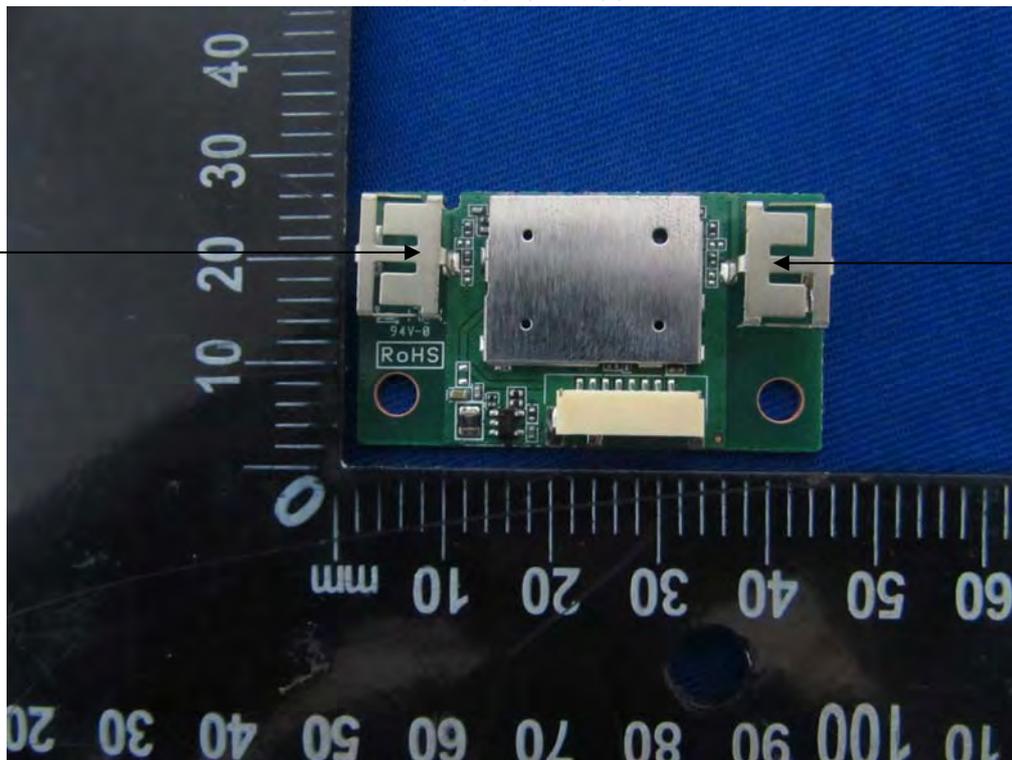


Internal Photos
M/N: SC-40FK700N

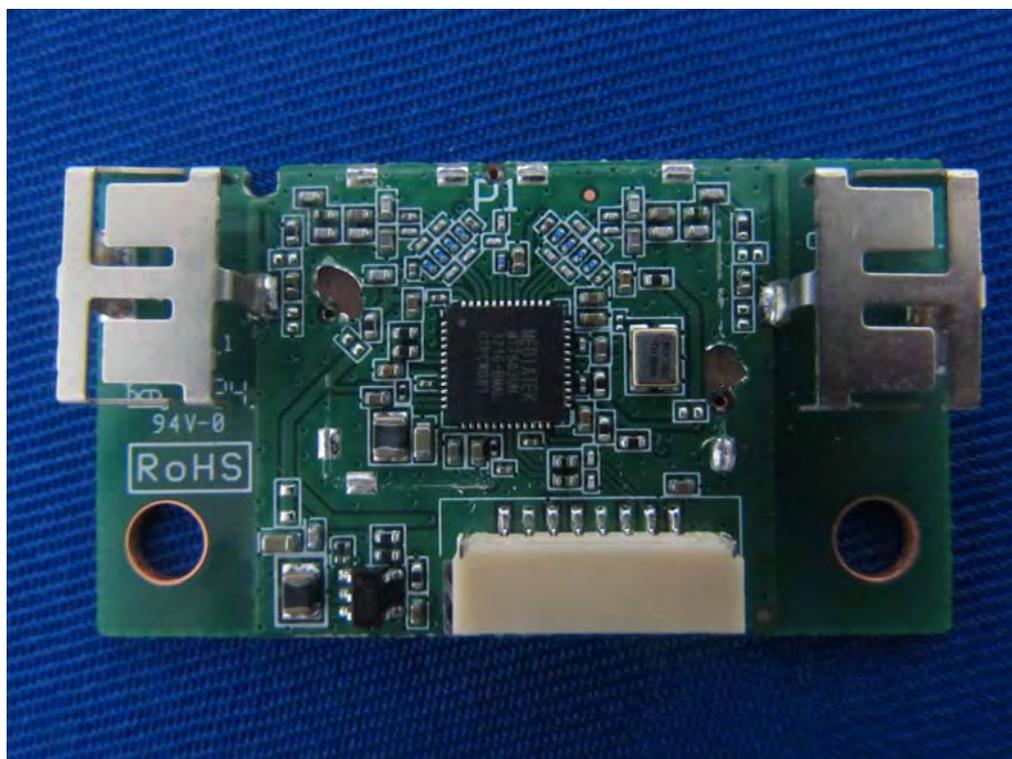


Internal Photos
M/N: SC-40FK700N

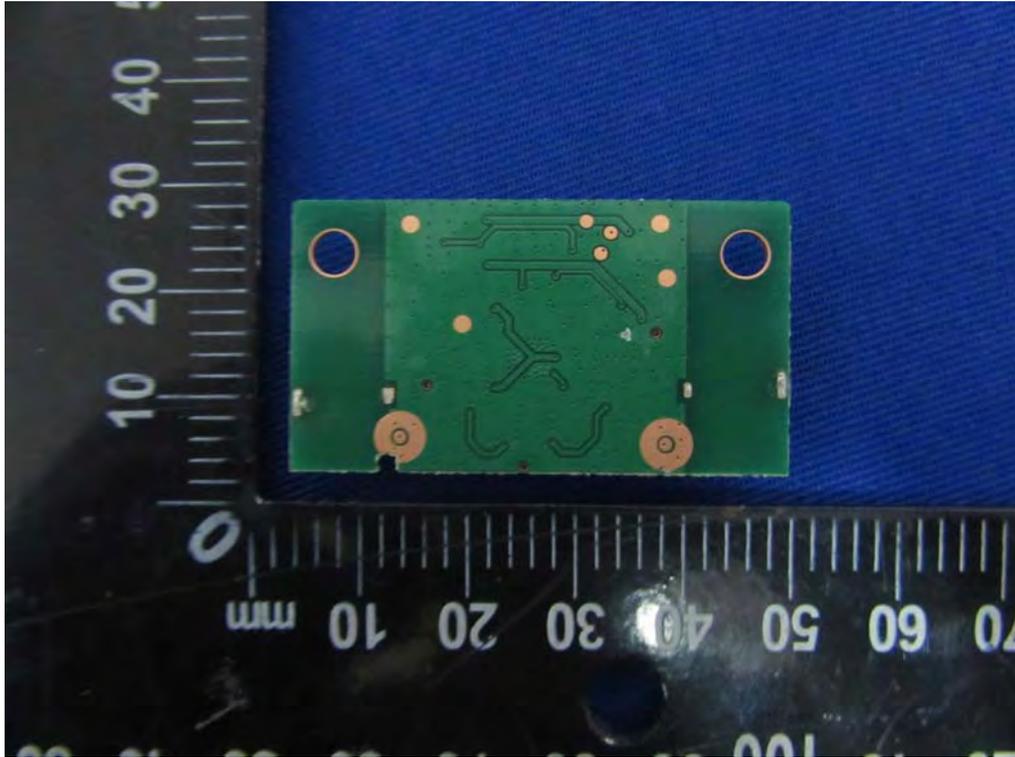
Wi-Fi
Antenna 0



Wi-Fi
Antenna 1



Internal Photos
M/N: SC-40FK700N



Internal Photos
M/N: SC-40FK700N

